

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC Client : G Environmental
 Project Location : NJ Project Number : _____
 Laboratory Sample ID(s) : Q2964 Sampling Date(s) : 8/25/2025
 List DKQP Methods Used (e.g., 8260,8270, et Cetra) **300.0,6010D,8260D,8260D,SM2320 B,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 : Q2964

Project ID : Buff

Client : G Environmental

Lab Sample Number

Q2964-01
Q2964-02
Q2964-04

Client Sample Number

RBBX4R
MW3
RPXY1R

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: 9/3/2025

CASE NARRATIVE

G Environmental

Project Name: Buff

Project # N/A

Order ID # Q2964

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 08/26/2025.

1 Water sample was received on 08/26/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

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 performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

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 %RSD is greater than 20% in the Initial Calibration method (82N082125W.M) for Methylene Chloride passing on Linear regression.

The %RSD is greater than 20% in the Initial Calibration method (82Y081225S.M) for Methylene chloride passing on Linear regression.

The Continuous Calibration File ID VY023214.D met the requirements except for Tetrachloroethene is failing high but no positive hit in associate sample therefore no corrective action taken.



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

The Tuning criteria met requirements.

Sample RPXY1R was run at straight MEOH dilution due to sample having strong odor of gasoline, not allowing low level soil run.

Sample RPXY1R was diluted due to high concentration.

E. Additional Comments:

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.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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- 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 #: Q2964

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: 09/03/2025

LAB CHRONICLE

OrderID: Q2964	OrderDate: 8/26/2025 2:35:00 PM
Client: G Environmental	Project: Buff
Contact: Gary Landis	Location: D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2964-01	RBBX4R	SOIL	VOC-TCLVOA-10	8260D	08/25/25		08/28/25	08/26/25
Q2964-02	MW3	Water	VOCMS Group1	8260-Low	08/25/25		08/26/25	08/26/25
Q2964-02DL	MW3DL	Water	VOCMS Group1	8260-Low	08/25/25		08/27/25	08/26/25
Q2964-04	RPXY1R	SOIL	VOC-TCLVOA-10	8260D	08/25/25		08/28/25	08/26/25
Q2964-04DL	RPXY1RDL	SOIL	VOC-TCLVOA-10	8260D	08/25/25		08/29/25	08/26/25

Hit Summary Sheet
SW-846

SDG No.: Q2964
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	RBBX4R							
Q2964-01	RBBX4R	SOIL	Acetone	65.2		4.10	21.7	ug/Kg
Q2964-01	RBBX4R	SOIL	Methylene Chloride	6.10	J	3.10	8.70	ug/Kg
Q2964-01	RBBX4R	SOIL	2-Butanone	6.40	J	5.70	21.7	ug/Kg
Q2964-01	RBBX4R	SOIL	Ethyl Benzene	53.6		0.58	4.30	ug/Kg
Q2964-01	RBBX4R	SOIL	m/p-Xylenes	250		1.10	8.70	ug/Kg
Q2964-01	RBBX4R	SOIL	o-Xylene	55.7		0.71	4.30	ug/Kg
Q2964-01	RBBX4R	SOIL	Isopropylbenzene	2.30	J	0.68	4.30	ug/Kg
			Total Voc :			439		
Q2964-01	RBBX4R	SOIL	Heptane, 2,5-dimethyl-	* 15.3	J	0	0	ug/Kg
Q2964-01	RBBX4R	SOIL	Octane, 4-methyl-	* 18.9	J	0	0	ug/Kg
			Total Tics :			34.2		
			Total Concentration:			474		
Client ID:	RPXY1R							
Q2964-04	RPXY1R	SOIL	Toluene	2100	J	600	3800	ug/Kg
Q2964-04	RPXY1R	SOIL	Ethyl Benzene	116000	E	510	3800	ug/Kg
Q2964-04	RPXY1R	SOIL	m/p-Xylenes	487000	E	950	7600	ug/Kg
Q2964-04	RPXY1R	SOIL	o-Xylene	126000	E	630	3800	ug/Kg
			Total Voc :			731000		
			Total Concentration:			731000		
Client ID:	RPXY1RDL							
Q2964-04DL	RPXY1RDL	SOIL	Ethyl Benzene	91900	D	2600	19100	ug/Kg
Q2964-04DL	RPXY1RDL	SOIL	m/p-Xylenes	381000	D	4700	38200	ug/Kg
Q2964-04DL	RPXY1RDL	SOIL	o-Xylene	97300	D	3100	19100	ug/Kg
			Total Voc :			570000		
			Total Concentration:			570000		



QC SUMMARY

Surrogate Summary

SDG No.: **Q2964**

Client: **G Environmental**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2964-01	RBBX4R	1,2-Dichloroethane-d4	50	62.8	126		70 (63)	130 (155)
		Dibromofluoromethane	50	55.4	111		70 (70)	130 (134)
		Toluene-d8	50	52.8	106		70 (74)	130 (123)
		4-Bromofluorobenzene	50	55.7	111		70 (17)	130 (146)
Q2964-04	RPXY1R	1,2-Dichloroethane-d4	50	55.4	111		70 (63)	130 (155)
		Dibromofluoromethane	50	52.2	104		70 (70)	130 (134)
		Toluene-d8	50	49.1	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.8	104		70 (17)	130 (146)
Q2964-04DL	RPXY1RDL	1,2-Dichloroethane-d4	50	55.5	111		70 (63)	130 (155)
		Dibromofluoromethane	50	49.7	99		70 (70)	130 (134)
		Toluene-d8	50	46.7	93		70 (74)	130 (123)
		4-Bromofluorobenzene	50	47.3	95		70 (17)	130 (146)
VN0828MBL01	VN0828MBL01	1,2-Dichloroethane-d4	50	55.2	110		70 (63)	130 (155)
		Dibromofluoromethane	50	50.6	101		70 (70)	130 (134)
		Toluene-d8	50	48.1	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	45.1	90		70 (17)	130 (146)
VN0828MBS01	VN0828MBS01	1,2-Dichloroethane-d4	50	46.9	94		70 (63)	130 (155)
		Dibromofluoromethane	50	50.0	100		70 (70)	130 (134)
		Toluene-d8	50	47.5	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.7	93		70 (17)	130 (146)
VN0829MBL01	VN0829MBL01	1,2-Dichloroethane-d4	50	55.5	111		70 (63)	130 (155)
		Dibromofluoromethane	50	50.9	102		70 (70)	130 (134)
		Toluene-d8	50	49.2	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	44.9	90		70 (17)	130 (146)
VN0829MBS01	VN0829MBS01	1,2-Dichloroethane-d4	50	48.5	97		70 (63)	130 (155)
		Dibromofluoromethane	50	47.0	94		70 (70)	130 (134)
		Toluene-d8	50	45.7	91		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.3	92		70 (17)	130 (146)
VY0828SBL01	VY0828SBL01	1,2-Dichloroethane-d4	50	51.1	102		70 (63)	130 (155)
		Dibromofluoromethane	50	51.8	104		70 (70)	130 (134)
		Toluene-d8	50	50.7	101		70 (74)	130 (123)
		4-Bromofluorobenzene	50	45.3	91		70 (17)	130 (146)
VY0828SBS01	VY0828SBS01	1,2-Dichloroethane-d4	50	44.5	89		70 (63)	130 (155)
		Dibromofluoromethane	50	48.6	97		70 (70)	130 (134)
		Toluene-d8	50	48.1	96		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.7	93		70 (17)	130 (146)
VY0828SBSD01	VY0828SBSD01	1,2-Dichloroethane-d4	50	47.8	96		70 (63)	130 (155)
		Dibromofluoromethane	50	49.6	99		70 (70)	130 (134)
		Toluene-d8	50	48.4	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	47.5	95		70 (17)	130 (146)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2964	Analytical Method:	SW8260D
Client:	G Environmental	Datafile :	VN087680.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0828MBS01	Dichlorodifluoromethane	2000	2000	ug/Kg	100			40 (64)	160 (136)	
	Chloromethane	2000	1900	ug/Kg	95			40 (52)	160 (151)	
	Vinyl chloride	2000	1900	ug/Kg	95			70 (56)	130 (148)	
	Bromomethane	2000	1900	ug/Kg	95			40 (58)	160 (141)	
	Chloroethane	2000	1800	ug/Kg	90			40 (69)	160 (130)	
	Trichlorofluoromethane	2000	1900	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	2000	1900	ug/Kg	95			70 (81)	130 (123)	
	1,1-Dichloroethene	2000	1800	ug/Kg	90			70 (79)	130 (121)	
	Acetone	10000	8200	ug/Kg	82			40 (40)	160 (171)	
	Carbon disulfide	2000	1600	ug/Kg	80			40 (59)	160 (130)	
	Methyl tert-butyl Ether	2000	1700	ug/Kg	85			70 (77)	130 (129)	
	Methyl Acetate	2000	1900	ug/Kg	95			70 (69)	130 (149)	
	Methylene Chloride	2000	1800	ug/Kg	90			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	2000	1700	ug/Kg	85			70 (80)	130 (123)	
	1,1-Dichloroethane	2000	1700	ug/Kg	85			70 (82)	130 (123)	
	Cyclohexane	2000	1800	ug/Kg	90			70 (76)	130 (122)	
	2-Butanone	10000	8800	ug/Kg	88			40 (69)	160 (131)	
	Carbon Tetrachloride	2000	1900	ug/Kg	95			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	2000	1700	ug/Kg	85			70 (82)	130 (123)	
	Bromochloromethane	2000	1800	ug/Kg	90			70 (80)	130 (127)	
	Chloroform	2000	1800	ug/Kg	90			70 (82)	130 (125)	
	1,1,1-Trichloroethane	2000	1800	ug/Kg	90			70 (80)	130 (126)	
	Methylcyclohexane	2000	1800	ug/Kg	90			70 (77)	130 (123)	
	Benzene	2000	1700	ug/Kg	85			70 (84)	130 (121)	
	1,2-Dichloroethane	2000	1800	ug/Kg	90			70 (81)	130 (126)	
	Trichloroethene	2000	1700	ug/Kg	85			70 (83)	130 (122)	
	1,2-Dichloropropane	2000	1700	ug/Kg	85			70 (83)	130 (122)	
	Bromodichloromethane	2000	1800	ug/Kg	90			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	10000	9300	ug/Kg	93			40 (70)	160 (135)	
	Toluene	2000	1700	ug/Kg	85			70 (83)	130 (122)	
	t-1,3-Dichloropropene	2000	1800	ug/Kg	90			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	2000	1800	ug/Kg	90			70 (81)	130 (122)	
	1,1,2-Trichloroethane	2000	1800	ug/Kg	90			70 (82)	130 (125)	
	2-Hexanone	10000	9100	ug/Kg	91			40 (66)	160 (138)	
	Dibromochloromethane	2000	1700	ug/Kg	85			70 (79)	130 (125)	
	1,2-Dibromoethane	2000	1800	ug/Kg	90			70 (80)	130 (125)	
	Tetrachloroethene	2000	1700	ug/Kg	85			70 (83)	130 (125)	
	Chlorobenzene	2000	1700	ug/Kg	85			70 (84)	130 (122)	
	Ethyl Benzene	2000	1800	ug/Kg	90			70 (82)	130 (124)	
	m/p-Xylenes	4000	3600	ug/Kg	90			70 (83)	130 (124)	
	o-Xylene	2000	1800	ug/Kg	90			70 (83)	130 (123)	
	Styrene	2000	1800	ug/Kg	90			70 (82)	130 (124)	
	Bromoform	2000	1800	ug/Kg	90			70 (75)	130 (127)	
	Isopropylbenzene	2000	1800	ug/Kg	90			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	2000	1800	ug/Kg	90			70 (77)	130 (127)	
	1,3-Dichlorobenzene	2000	1800	ug/Kg	90			70 (83)	130 (122)	
	1,4-Dichlorobenzene	2000	1800	ug/Kg	90			70 (84)	130 (121)	
	1,2-Dichlorobenzene	2000	1800	ug/Kg	90			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2964</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087680.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0828MBS01	1,2-Dibromo-3-Chloropropane	2000	1800	ug/Kg	90			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	2000	1700	ug/Kg	85			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	2000	1700	ug/Kg	85			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2964	Analytical Method:	SW8260D
Client:	G Environmental	Datafile :	VN087696.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0829MBS01	Dichlorodifluoromethane	2000	1900	ug/Kg	95			40 (64)	160 (136)	
	Chloromethane	2000	2000	ug/Kg	100			40 (52)	160 (151)	
	Vinyl chloride	2000	1900	ug/Kg	95			70 (56)	130 (148)	
	Bromomethane	2000	2000	ug/Kg	100			40 (58)	160 (141)	
	Chloroethane	2000	1900	ug/Kg	95			40 (69)	160 (130)	
	Trichlorofluoromethane	2000	1900	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	2000	1800	ug/Kg	90			70 (81)	130 (123)	
	1,1-Dichloroethene	2000	1800	ug/Kg	90			70 (79)	130 (121)	
	Acetone	10000	9300	ug/Kg	93			40 (40)	160 (171)	
	Carbon disulfide	2000	1600	ug/Kg	80			40 (59)	160 (130)	
	Methyl tert-butyl Ether	2000	1800	ug/Kg	90			70 (77)	130 (129)	
	Methyl Acetate	2000	2000	ug/Kg	100			70 (69)	130 (149)	
	Methylene Chloride	2000	1800	ug/Kg	90			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	2000	1700	ug/Kg	85			70 (80)	130 (123)	
	1,1-Dichloroethane	2000	1800	ug/Kg	90			70 (82)	130 (123)	
	Cyclohexane	2000	1600	ug/Kg	80			70 (76)	130 (122)	
	2-Butanone	10000	9300	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	2000	1800	ug/Kg	90			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	2000	1800	ug/Kg	90			70 (82)	130 (123)	
	Bromochloromethane	2000	2000	ug/Kg	100			70 (80)	130 (127)	
	Chloroform	2000	1900	ug/Kg	95			70 (82)	130 (125)	
	1,1,1-Trichloroethane	2000	1800	ug/Kg	90			70 (80)	130 (126)	
	Methylcyclohexane	2000	1600	ug/Kg	80			70 (77)	130 (123)	
	Benzene	2000	1800	ug/Kg	90			70 (84)	130 (121)	
	1,2-Dichloroethane	2000	1800	ug/Kg	90			70 (81)	130 (126)	
	Trichloroethene	2000	1700	ug/Kg	85			70 (83)	130 (122)	
	1,2-Dichloropropane	2000	1800	ug/Kg	90			70 (83)	130 (122)	
	Bromodichloromethane	2000	1900	ug/Kg	95			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	10000	9600	ug/Kg	96			40 (70)	160 (135)	
	Toluene	2000	1800	ug/Kg	90			70 (83)	130 (122)	
	t-1,3-Dichloropropene	2000	1800	ug/Kg	90			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	2000	1800	ug/Kg	90			70 (81)	130 (122)	
	1,1,2-Trichloroethane	2000	1900	ug/Kg	95			70 (82)	130 (125)	
	2-Hexanone	10000	9600	ug/Kg	96			40 (66)	160 (138)	
	Dibromochloromethane	2000	1800	ug/Kg	90			70 (79)	130 (125)	
	1,2-Dibromoethane	2000	1900	ug/Kg	95			70 (80)	130 (125)	
	Tetrachloroethene	2000	1700	ug/Kg	85			70 (83)	130 (125)	
	Chlorobenzene	2000	1800	ug/Kg	90			70 (84)	130 (122)	
	Ethyl Benzene	2000	1700	ug/Kg	85			70 (82)	130 (124)	
	m/p-Xylenes	4000	3500	ug/Kg	88			70 (83)	130 (124)	
	o-Xylene	2000	1800	ug/Kg	90			70 (83)	130 (123)	
	Styrene	2000	1800	ug/Kg	90			70 (82)	130 (124)	
	Bromoform	2000	1800	ug/Kg	90			70 (75)	130 (127)	
	Isopropylbenzene	2000	1700	ug/Kg	85			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	2000	1900	ug/Kg	95			70 (77)	130 (127)	
	1,3-Dichlorobenzene	2000	1800	ug/Kg	90			70 (83)	130 (122)	
	1,4-Dichlorobenzene	2000	1700	ug/Kg	85			70 (84)	130 (121)	
	1,2-Dichlorobenzene	2000	1800	ug/Kg	90			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2964</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087696.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0829MBS01	1,2-Dibromo-3-Chloropropane	2000	1600	ug/Kg	80			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	2000	1700	ug/Kg	85			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	2000	1700	ug/Kg	85			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2964</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VY023216.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0828SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			40 (64)	160 (136)	
	Chloromethane	20	19.0	ug/Kg	95			40 (52)	160 (151)	
	Vinyl chloride	20	19.5	ug/Kg	98			70 (56)	130 (148)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	20.0	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.9	ug/Kg	104			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (40)	160 (171)	
	Carbon disulfide	20	19.6	ug/Kg	98			40 (59)	160 (130)	
	Methyl tert-butyl Ether	20	18.7	ug/Kg	94			70 (77)	130 (129)	
	Methyl Acetate	20	17.8	ug/Kg	89			70 (69)	130 (149)	
	Methylene Chloride	20	20.2	ug/Kg	101			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (123)	
	Cyclohexane	20	18.5	ug/Kg	93			70 (76)	130 (122)	
	2-Butanone	100	94.7	ug/Kg	95			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.1	ug/Kg	106			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	Bromochloromethane	20	19.3	ug/Kg	97			70 (80)	130 (127)	
	Chloroform	20	20.9	ug/Kg	104			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.6	ug/Kg	103			70 (80)	130 (126)	
	Methylcyclohexane	20	20.1	ug/Kg	101			70 (77)	130 (123)	
	Benzene	20	20.8	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.8	ug/Kg	99			70 (81)	130 (126)	
	Trichloroethene	20	22.3	ug/Kg	112			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.3	ug/Kg	102			70 (83)	130 (122)	
	Bromodichloromethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	86.9	ug/Kg	87			40 (70)	160 (135)	
	Toluene	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.1	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	91.9	ug/Kg	92			40 (66)	160 (138)	
	Dibromochloromethane	20	20.7	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.2	ug/Kg	101			70 (80)	130 (125)	
	Tetrachloroethene	20	24.7	ug/Kg	124			70 (83)	130 (125)	
	Chlorobenzene	20	21.1	ug/Kg	106			70 (84)	130 (122)	
	Ethyl Benzene	20	20.4	ug/Kg	102			70 (82)	130 (124)	
	m/p-Xylenes	40	41.4	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.5	ug/Kg	103			70 (83)	130 (123)	
	Styrene	20	20.4	ug/Kg	102			70 (82)	130 (124)	
	Bromoform	20	20.4	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	20.6	ug/Kg	103			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.0	ug/Kg	90			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.0	ug/Kg	105			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2964</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VY023216.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0828SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.4	ug/Kg	97			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2964	Analytical Method:	SW8260D
Client:	G Environmental	Datafile :	VY023217.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0828SBSD01	Dichlorodifluoromethane	20	20.7	ug/Kg	104	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.6	ug/Kg	98	3		40 (52)	160 (151)	30 (20)
	Vinyl chloride	20	19.6	ug/Kg	98	0		70 (56)	130 (148)	30 (20)
	Bromomethane	20	22.1	ug/Kg	111	5		40 (58)	160 (141)	30 (20)
	Chloroethane	20	20.4	ug/Kg	102	2		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.7	ug/Kg	99	2		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.0	ug/Kg	105	0		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	20.7	ug/Kg	104	0		70 (79)	130 (121)	30 (20)
	Acetone	100	120	ug/Kg	120	9		40 (40)	160 (171)	30 (20)
	Carbon disulfide	20	19.8	ug/Kg	99	1		40 (59)	160 (130)	30 (20)
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.7	ug/Kg	104	16		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	22.1	ug/Kg	111	9		70 (72)	130 (131)	30 (20)
	trans-1,2-Dichloroethene	20	21.2	ug/Kg	106	3		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.4	ug/Kg	102	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.6	ug/Kg	93	0		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	15		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.7	ug/Kg	104	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104	3		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.3	ug/Kg	102	5		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.1	ug/Kg	106	2		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104	1		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.1	ug/Kg	96	5		70 (77)	130 (123)	30 (20)
	Benzene	20	20.9	ug/Kg	104	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.5	ug/Kg	103	4		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	22.2	ug/Kg	111	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.8	ug/Kg	104	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.2	ug/Kg	106	2		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	99.1	ug/Kg	99	13		40 (70)	160 (135)	30 (20)
	Toluene	20	20.8	ug/Kg	104	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	5		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	3		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	21.4	ug/Kg	107	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	21.9	ug/Kg	110	6		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	21.4	ug/Kg	107	6		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	24.8	ug/Kg	124	0		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.6	ug/Kg	108	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.5	ug/Kg	103	1		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	41.8	ug/Kg	104	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.7	ug/Kg	104	1		70 (83)	130 (123)	30 (20)
	Styrene	20	21.2	ug/Kg	106	4		70 (82)	130 (124)	30 (20)
	Bromoform	20	22.5	ug/Kg	113	10		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.3	ug/Kg	102	1		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.3	ug/Kg	97	7		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106	2		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.1	ug/Kg	106	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	21.5	ug/Kg	108	3		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2964</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VY023217.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0828SBSD01	1,2-Dibromo-3-Chloropropane	20	20.8	ug/Kg	104	13		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	21.1	ug/Kg	106	7		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.1	ug/Kg	106	9		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0828MBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VN087677.D

Lab Sample ID: VN0828MBL01

Date Analyzed: 08/28/2025

Time Analyzed: 12:09

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
VN0828MBS01	VN0828MBS01	VN087680.D	08/28/2025
RPHY1R	Q2964-04	VN087689.D	08/28/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0829MBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VN087694.D

Lab Sample ID: VN0829MBL01

Date Analyzed: 08/29/2025

Time Analyzed: 12:42

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
VN0829MBS01	VN0829MBS01	VN087696.D	08/29/2025
RPHY1RDL	Q2964-04DL	VN087698.D	08/29/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VY0828SBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VY023215.D

Lab Sample ID: VY0828SBL01

Date Analyzed: 08/28/2025

Time Analyzed: 10:02

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0828SBS01	VY0828SBS01	VY023216.D	08/28/2025
VY0828SBSD01	VY0828SBSD01	VY023217.D	08/28/2025
RBBX4R	Q2964-01	VY023229.D	08/28/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VN087614.D

BFB Injection Date: 08/21/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:30

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	25.8
75	30.0 - 60.0% of mass 95	58.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	69
175	5.0 - 9.0% of mass 174	5.6 (8.1) 1
176	95.0 - 101.0% of mass 174	67.7 (98.1) 1
177	5.0 - 9.0% of mass 176	4.8 (7.1) 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	VN087619.D	08/21/2025	12:09
VSTDIC005	VSTDIC005	VN087620.D	08/21/2025	13:08
VSTDIC020	VSTDIC020	VN087621.D	08/21/2025	13:41
VSTDIC050	VSTDIC050	VN087622.D	08/21/2025	14:02
VSTDIC100	VSTDIC100	VN087623.D	08/21/2025	14:23
VSTDIC150	VSTDIC150	VN087624.D	08/21/2025	14:44



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VN087675.D

BFB Injection Date: 08/28/2025

Instrument ID: MSVOA_N

BFB Injection Time: 11:00

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	24.4
75	30.0 - 60.0% of mass 95	57.9
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	0.7 (1.1) 1
174	50.0 - 100.0% of mass 95	65.2
175	5.0 - 9.0% of mass 174	5.8 (8.8) 1
176	95.0 - 101.0% of mass 174	64.2 (98.5) 1
177	5.0 - 9.0% of mass 176	3.7 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087676.D	08/28/2025	11:33
VN0828MBL01	VN0828MBL01	VN087677.D	08/28/2025	12:09
VN0828MBS01	VN0828MBS01	VN087680.D	08/28/2025	13:24
RPXY1R	Q2964-04	VN087689.D	08/28/2025	16:32



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VN087692.D

BFB Injection Date: 08/29/2025

Instrument ID: MSVOA_N

BFB Injection Time: 11:32

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	24.8
75	30.0 - 60.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	73.1
175	5.0 - 9.0% of mass 174	6.1 (8.4) 1
176	95.0 - 101.0% of mass 174	71.7 (98.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087693.D	08/29/2025	12:05
VN0829MBL01	VN0829MBL01	VN087694.D	08/29/2025	12:42
VN0829MBS01	VN0829MBS01	VN087696.D	08/29/2025	13:24
RPXY1RDL	Q2964-04DL	VN087698.D	08/29/2025	14:18



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VY023048.D

BFB Injection Date: 08/12/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 08:26

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	83.2
175	5.0 - 9.0% of mass 174	6.3 (7.6) 1
176	95.0 - 101.0% of mass 174	80.9 (97.2) 1
177	5.0 - 9.0% of mass 176	5.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY023050.D	08/12/2025	14:54
VSTDIC010	VSTDIC010	VY023051.D	08/12/2025	15:17
VSTDIC020	VSTDIC020	VY023052.D	08/12/2025	15:40
VSTDIC050	VSTDIC050	VY023053.D	08/12/2025	16:02
VSTDIC100	VSTDIC100	VY023054.D	08/12/2025	16:25
VSTDIC150	VSTDIC150	VY023055.D	08/12/2025	16:47



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2964

Lab File ID: VY023213.D

BFB Injection Date: 08/28/2025

Instrument ID: MSVOA_Y

BFB Injection Time: 07:57

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1) 1
174	50.0 - 100.0% of mass 95	91.8
175	5.0 - 9.0% of mass 174	6.9 (7.5) 1
176	95.0 - 101.0% of mass 174	87.5 (95.3) 1
177	5.0 - 9.0% of mass 176	5.7 (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	VY023214.D	08/28/2025	09:03
VY0828SBL01	VY0828SBL01	VY023215.D	08/28/2025	10:02
VY0828SBS01	VY0828SBS01	VY023216.D	08/28/2025	10:58
VY0828SBSD01	VY0828SBSD01	VY023217.D	08/28/2025	11:20
RBBX4R	Q2964-01	VY023229.D	08/28/2025	16:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG NO.: Q2964
Lab File ID: VN087676.D Date Analyzed: 08/28/2025
Instrument ID: MSVOA_N Time Analyzed: 11:33
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	200815	8.21	393512	9.08	367312	11.85
UPPER LIMIT	401630	8.706	787024	9.583	734624	12.347
LOWER LIMIT	100408	7.706	196756	8.583	183656	11.347
EPA SAMPLE NO.						
RPXY1R	148628	8.21	339597	9.08	324921	11.85
VN0828MBL01	165959	8.21	389198	9.08	354647	11.85
VN0828MBS01	211485	8.21	408603	9.08	370187	11.84

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2964</u>
Lab File ID:	<u>VN087676.D</u>	Date Analyzed:	<u>08/28/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>11:33</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	185443	13.771				
UPPER LIMIT	370886	14.271				
LOWER LIMIT	92721.5	13.271				
EPA SAMPLE NO.						
RPXY1R	157594	13.77				
VN0828MBL01	163207	13.77				
VN0828MBS01	186353	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2964
 Lab File ID: VN087693.D Date Analyzed: 08/29/2025
 Instrument ID: MSVOA_N Time Analyzed: 12:05
 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	191520	8.21	371305	9.08	364439	11.85
UPPER LIMIT	383040	8.706	742610	9.583	728878	12.347
LOWER LIMIT	95760	7.706	185653	8.583	182220	11.347
EPA SAMPLE NO.						
RPXY1RDL	144470	8.21	341905	9.08	313398	11.85
VN0829MBL01	149197	8.21	346944	9.08	324171	11.85
VN0829MBS01	188928	8.21	373365	9.08	351090	11.84

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2964
 Lab File ID: VN087693.D Date Analyzed: 08/29/2025
 Instrument ID: MSVOA_N Time Analyzed: 12:05
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	186778	13.77				
UPPER LIMIT	373556	14.27				
LOWER LIMIT	93389	13.27				
EPA SAMPLE NO.						
RPXY1RDL	145966	13.77				
VN0829MBL01	144779	13.77				
VN0829MBS01	178354	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2964
 Lab File ID: VY023214.D Date Analyzed: 08/28/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:03
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	542406	7.71	816314	8.62	700282	11.42
UPPER LIMIT	1084810	8.213	1632630	9.116	1400560	11.92
LOWER LIMIT	271203	7.213	408157	8.116	350141	10.92
EPA SAMPLE NO.						
RBBX4R	536714	7.71	1037130	8.62	1043264	11.41
VY0828SBL01	694700	7.71	1286727	8.62	1122725	11.42
VY0828SBS01	498098	7.71	773362	8.62	674652	11.42
VY0828SBSD01	479921	7.71	762688	8.62	660180	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2964
 Lab File ID: VY023214.D Date Analyzed: 08/28/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:03
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	350311	13.347				
UPPER LIMIT	700622	13.847				
LOWER LIMIT	175156	12.847				
EPA SAMPLE NO.						
RBBX4R	449321	13.35				
VY0828SBL01	442680	13.35				
VY0828SBS01	338228	13.35				
VY0828SBSD01	335118	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	08/25/25
Project:	Buff	Date Received:	08/26/25
Client Sample ID:	RBBX4R	SDG No.:	Q2964
Lab Sample ID:	Q2964-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.8
Sample Wt/Vol:	7.04 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023229.D	1	08/28/25 16:15	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.99	U	0.99	4.30	ug/Kg
74-87-3	Chloromethane	0.99	U	0.99	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.69	U	0.69	4.30	ug/Kg
74-83-9	Bromomethane	0.93	U	0.93	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.87	U	0.87	4.30	ug/Kg
67-64-1	Acetone	65.2		4.10	21.7	ug/Kg
75-15-0	Carbon Disulfide	0.92	U	0.92	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	6.10	J	3.10	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.75	U	0.75	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	4.30	ug/Kg
78-93-3	2-Butanone	6.40	J	5.70	21.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.30	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.81	U	0.81	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.79	U	0.79	4.30	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.79	U	0.79	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.68	U	0.68	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.7	ug/Kg
108-88-3	Toluene	0.68	U	0.68	4.30	ug/Kg

Report of Analysis

Client:	G Environmental			Date Collected:	08/25/25	
Project:	Buff			Date Received:	08/26/25	
Client Sample ID:	RBBX4R			SDG No.:	Q2964	
Lab Sample ID:	Q2964-01			Matrix:	SOIL	
Analytical Method:	8260D			% Solid:	81.8	
Sample Wt/Vol:	7.04	Units:	g	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023229.D	1	08/28/25 16:15	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.7	ug/Kg
124-48-1	Dibromochloromethane	0.76	U	0.76	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	4.30	ug/Kg
108-90-7	Chlorobenzene	0.79	U	0.79	4.30	ug/Kg
100-41-4	Ethyl Benzene	53.6		0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	250		1.10	8.70	ug/Kg
95-47-6	o-Xylene	55.7		0.71	4.30	ug/Kg
100-42-5	Styrene	0.62	U	0.62	4.30	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.30	ug/Kg
98-82-8	Isopropylbenzene	2.30	J	0.68	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.8		70 (63) - 130 (155)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		70 (70) - 130 (134)	111%	SPK: 50
2037-26-5	Toluene-d8	52.8		70 (74) - 130 (123)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		70 (17) - 130 (146)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	537000	7.707			
540-36-3	1,4-Difluorobenzene	1040000	8.616			
3114-55-4	Chlorobenzene-d5	1040000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	449000	13.346			

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	G Environmental		Date Collected:	08/25/25	
Project:	Buff		Date Received:	08/26/25	
Client Sample ID:	RBBX4R		SDG No.:	Q2964	
Lab Sample ID:	Q2964-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	81.8	
Sample Wt/Vol:	7.04	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023229.D	1	08/28/25 16:15	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
002216-34-4	Octane, 4-methyl-	18.9	J		11.2	ug/Kg
002216-30-0	Heptane, 2,5-dimethyl-	15.3	J		11.3	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023229.D
 Acq On : 28 Aug 2025 16:15
 Operator : SY/MD
 Sample : Q2964-01
 Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBBX4R

Quant Time: Aug 29 02:12:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

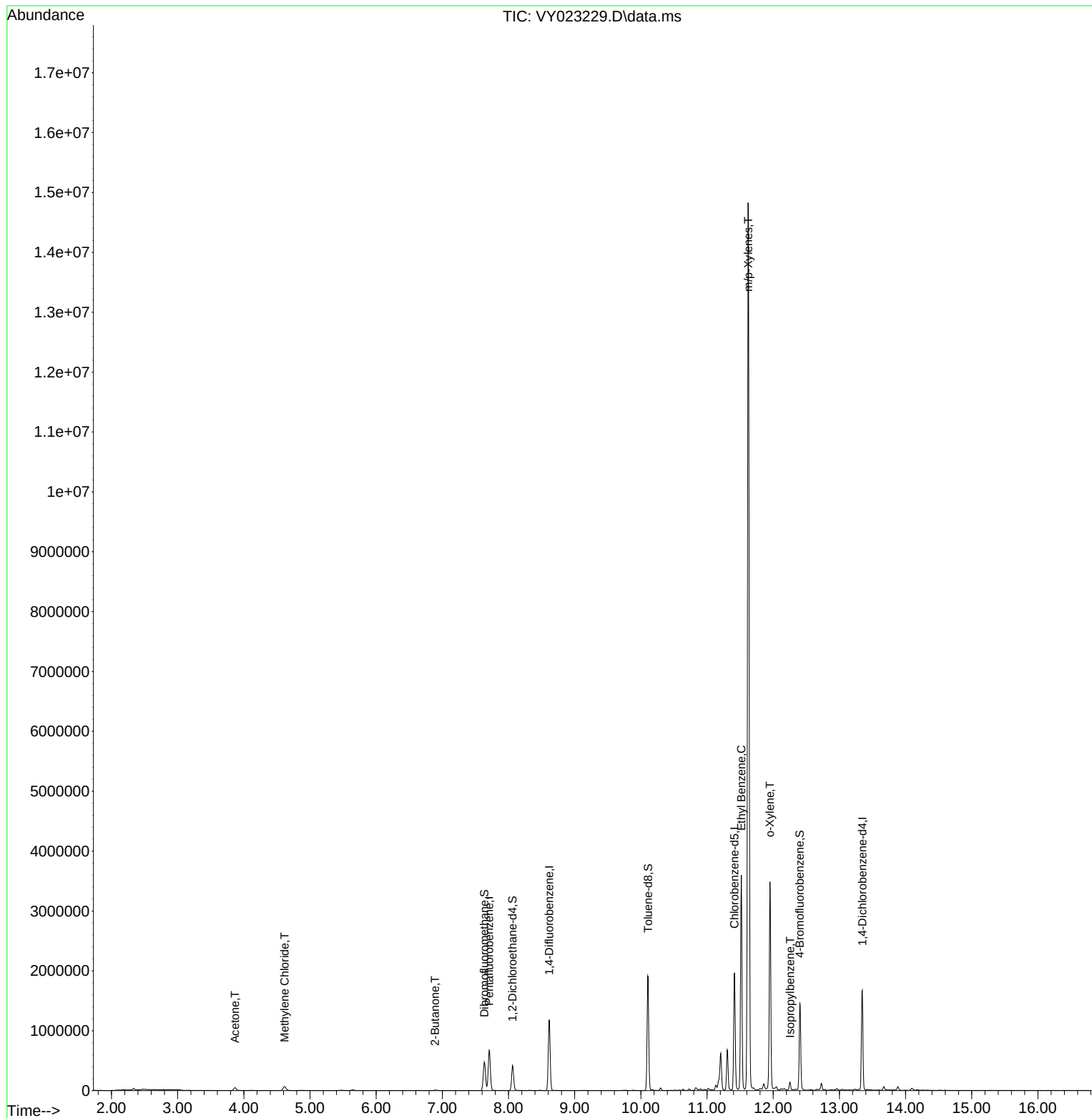
Internal Standards						
1) Pentafluorobenzene	7.707	168	536714	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1037130	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1043264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	449321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	321088	62.771	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 125.540%			
35) Dibromofluoromethane	7.634	113	343955	55.424	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.840%			
50) Toluene-d8	10.109	98	1280473	52.817	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.640%			
62) 4-Bromofluorobenzene	12.401	95	434029	55.668	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 111.340%			
Target Compounds					Qvalue	
16) Acetone	3.866	43	83271	75.141	ug/l	98
20) Methylene Chloride	4.616	84	54154	7.071	ug/l	94
25) 2-Butanone	6.890	43	11150	7.398	ug/l	98
67) Ethyl Benzene	11.518	91	2388519	61.677	ug/l	98
68) m/p-Xylenes	11.621	106	4347804	287.460	ug/l	93
69) o-Xylene	11.950	106	908406	64.126	ug/l	99
73) Isopropylbenzene	12.255	105	85272	2.689	ug/l	99

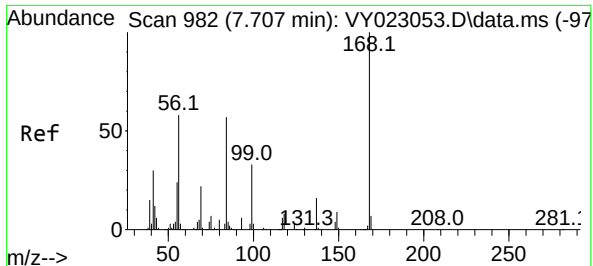
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023229.D
Acq On : 28 Aug 2025 16:15
Operator : SY/MD
Sample : Q2964-01
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

Quant Time: Aug 29 02:12:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

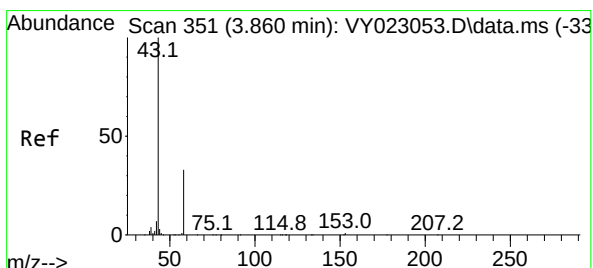
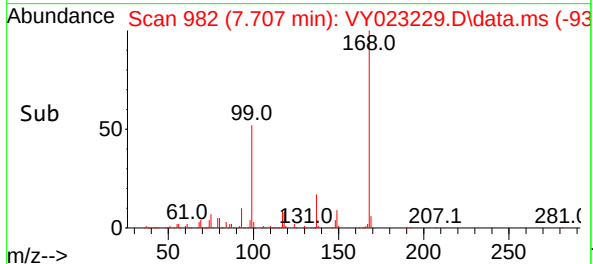
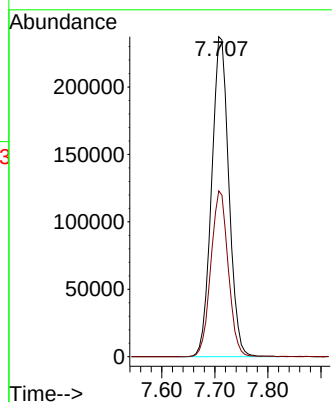
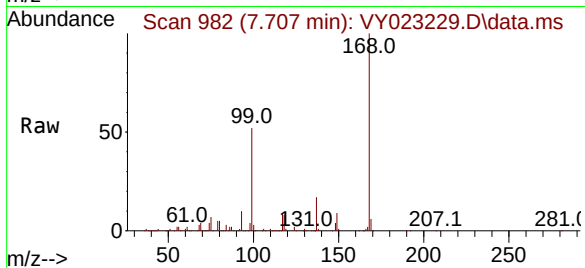




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

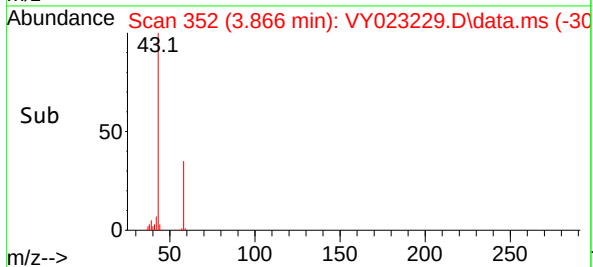
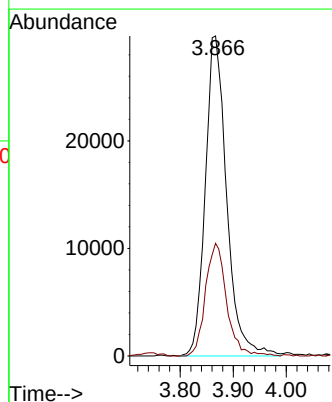
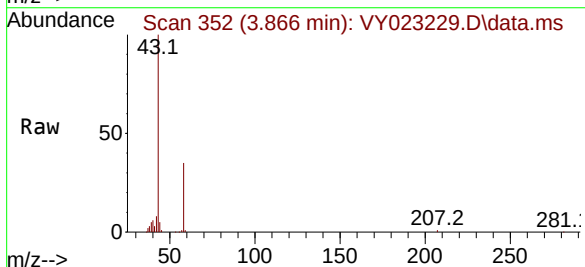
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

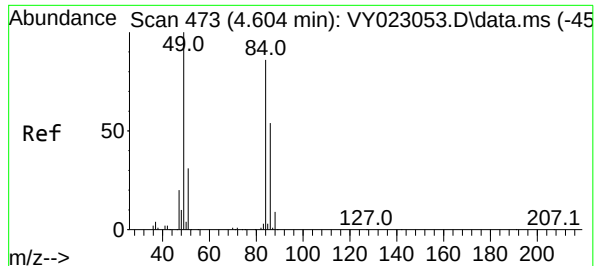
Tgt Ion:168 Resp: 536714
Ion Ratio Lower Upper
168 100
99 51.8 42.8 64.2



#16
Acetone
Concen: 75.141 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 43 Resp: 83271
Ion Ratio Lower Upper
43 100
58 35.2 27.1 40.7





#20

Methylene Chloride

Concen: 7.071 ug/l

RT: 4.616 min Scan# 41

Delta R.T. 0.012 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

Instrument :

MSVOA_Y

ClientSampleId :

RBBX4R

Tgt Ion: 84 Resp: 54154

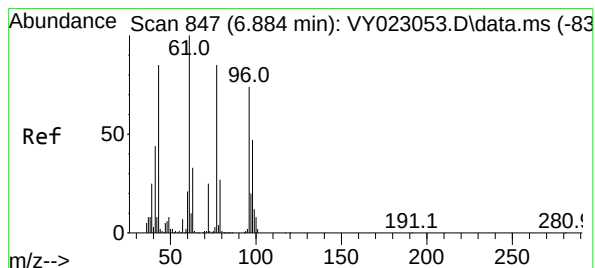
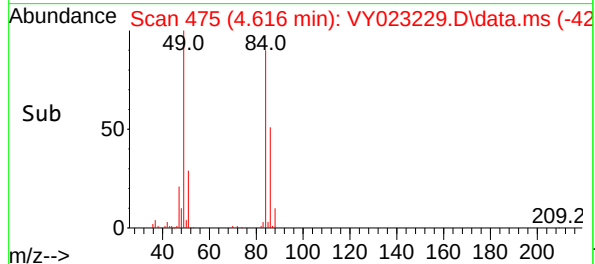
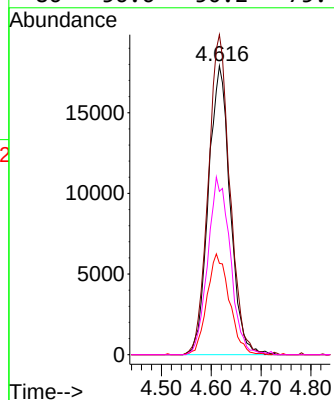
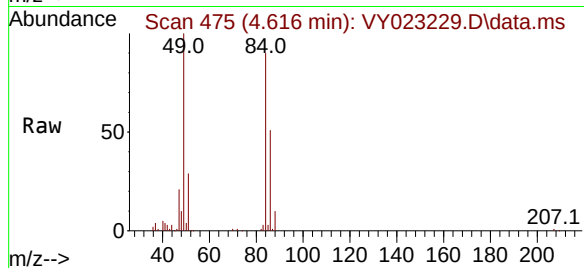
Ion Ratio Lower Upper

84 100

49 110.8 93.0 139.6

51 31.7 29.0 43.4

86 56.6 50.2 75.4



#25

2-Butanone

Concen: 7.398 ug/l

RT: 6.890 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY023229.D

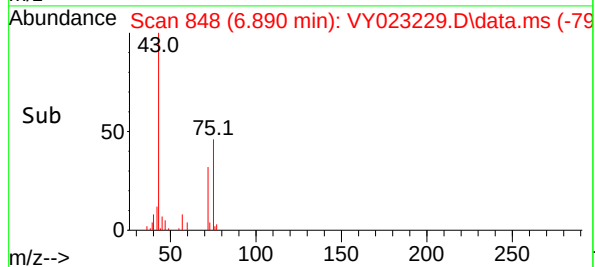
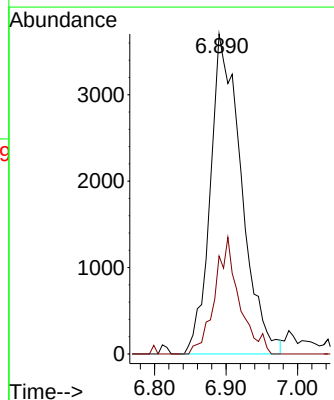
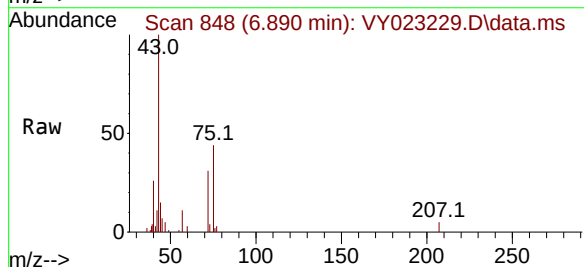
Acq: 28 Aug 2025 16:15

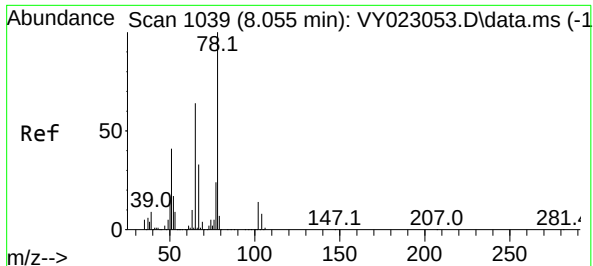
Tgt Ion: 43 Resp: 11150

Ion Ratio Lower Upper

43 100

72 30.6 23.5 35.3





#33

1,2-Dichloroethane-d4

Concen: 62.771 ug/l

RT: 8.061 min Scan# 1039

Delta R.T. 0.006 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

Instrument :

MSVOA_Y

ClientSampleId :

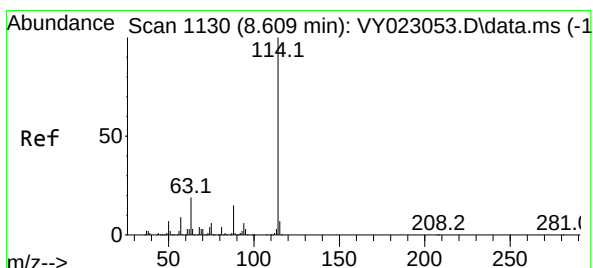
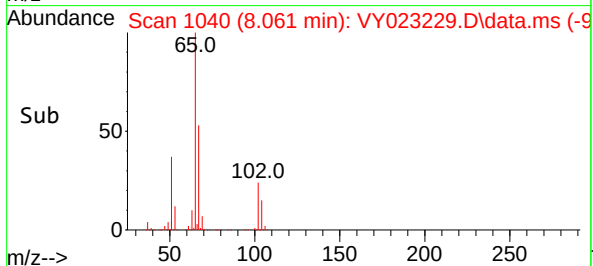
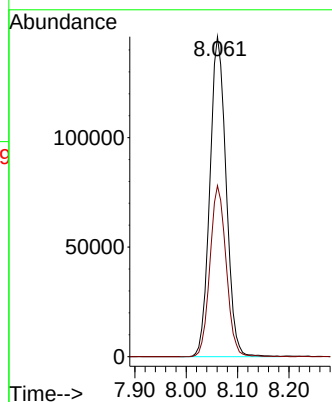
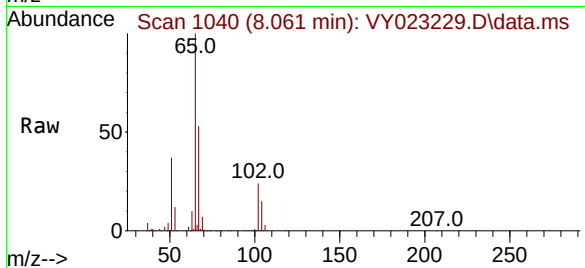
RBBX4R

Tgt Ion: 65 Resp: 321088

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

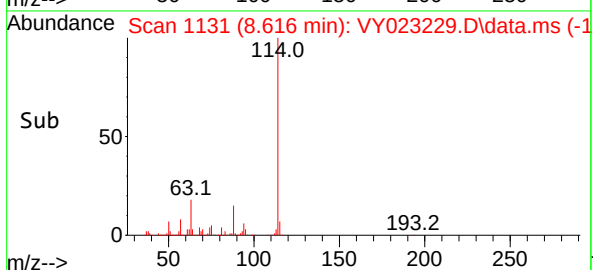
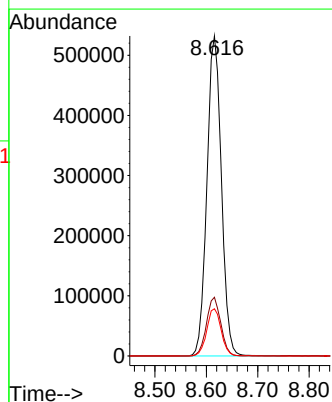
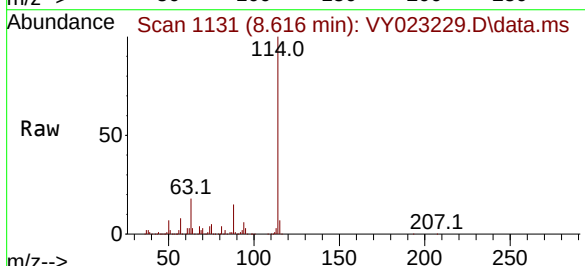
Tgt Ion: 114 Resp: 1037130

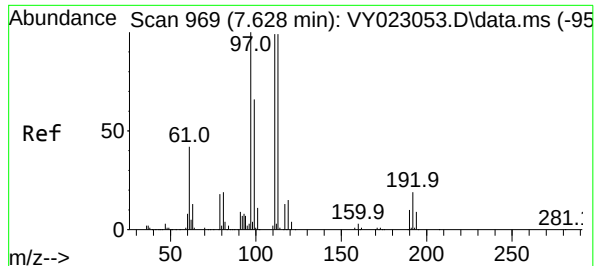
Ion Ratio Lower Upper

114 100

63 18.4 0.0 38.4

88 14.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 55.424 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023229.D

Acq: 28 Aug 2025 16:15

Instrument :

MSVOA_Y

ClientSampleId :

RBBX4R

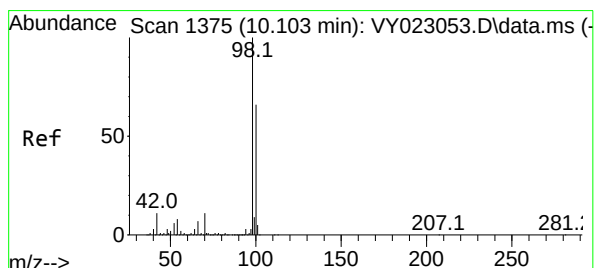
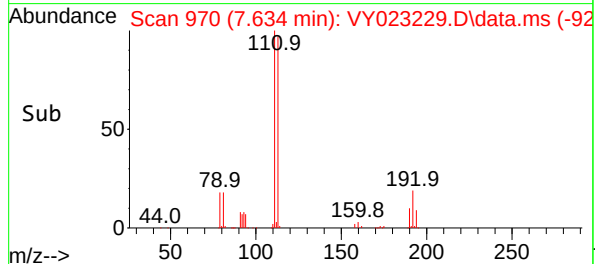
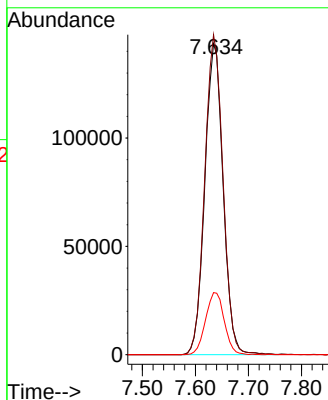
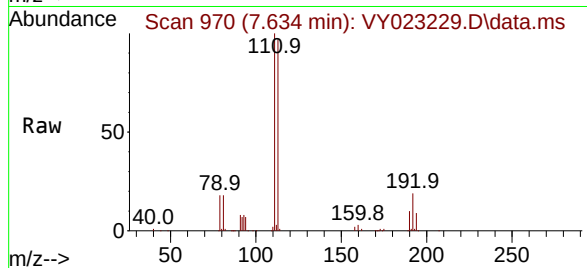
Tgt Ion:113 Resp: 343955

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

192 20.5 16.2 24.4



#50

Toluene-d8

Concen: 52.817 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023229.D

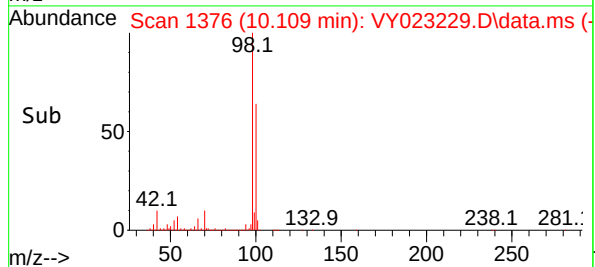
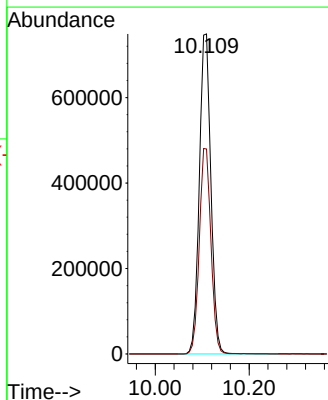
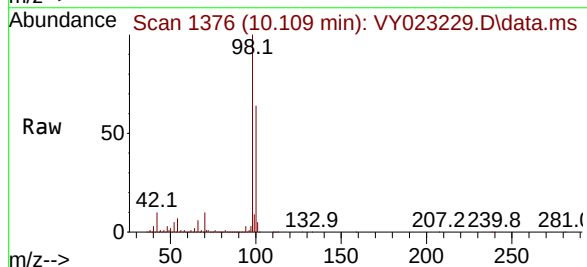
Acq: 28 Aug 2025 16:15

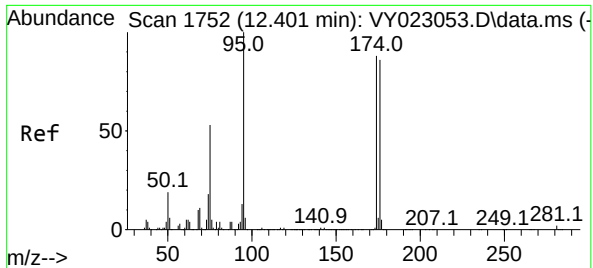
Tgt Ion: 98 Resp: 1280473

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5

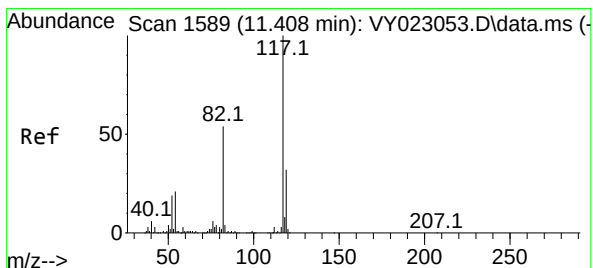
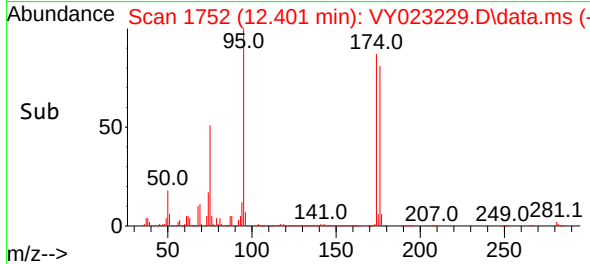
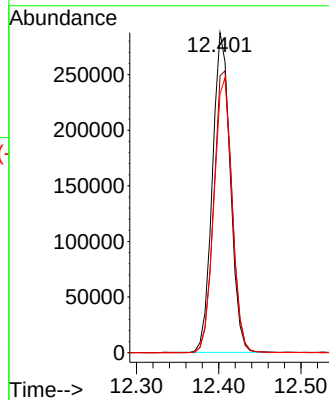
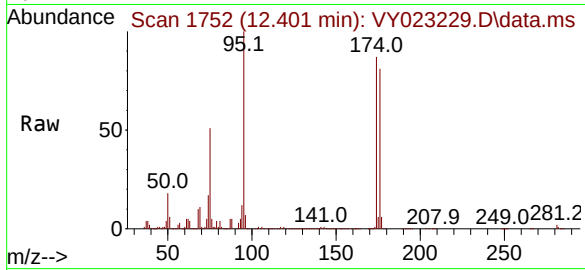




#62
4-Bromofluorobenzene
Concen: 55.668 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

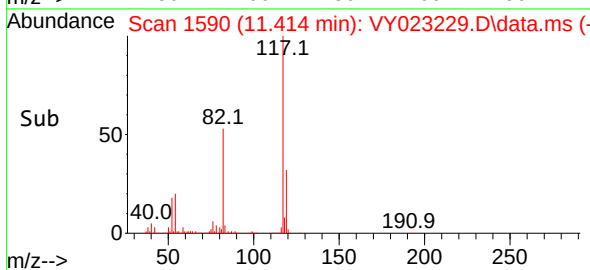
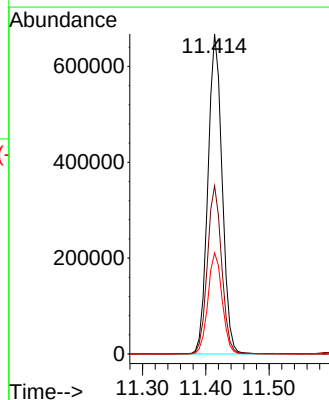
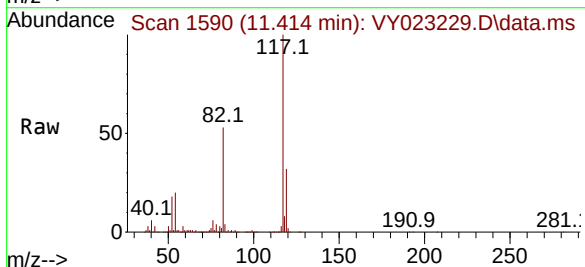
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

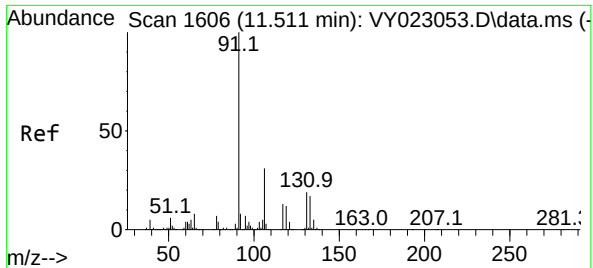
Tgt Ion: 95 Resp: 434029
Ion Ratio Lower Upper
95 100
174 90.1 0.0 171.6
176 87.3 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion: 117 Resp: 1043264
Ion Ratio Lower Upper
117 100
82 52.5 43.4 65.0
119 31.6 25.6 38.4

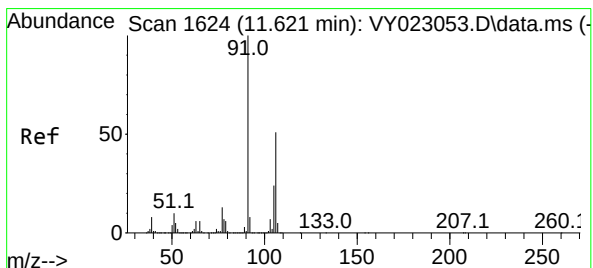
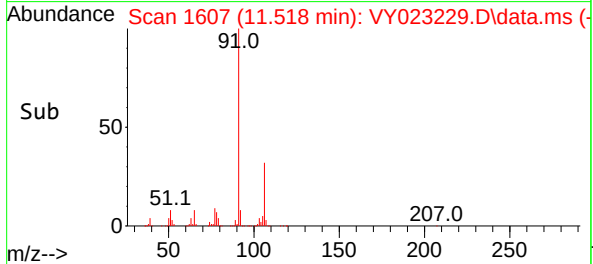
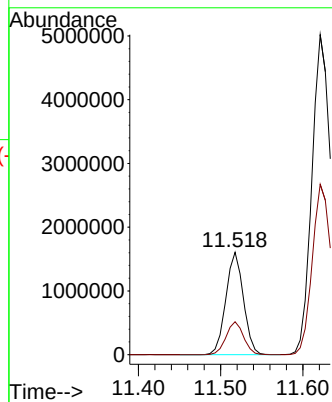
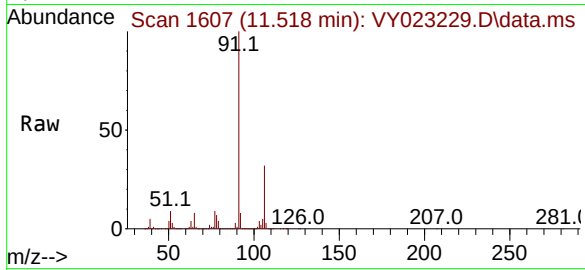




#67
Ethyl Benzene
Concen: 61.677 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

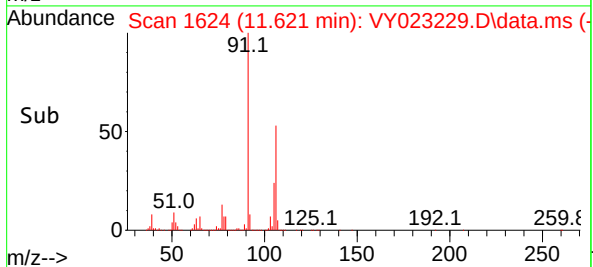
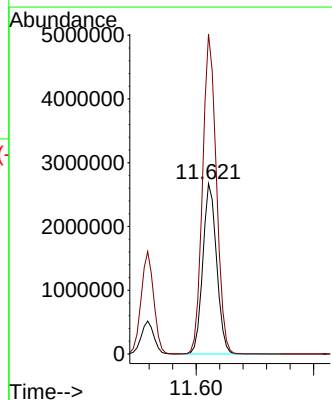
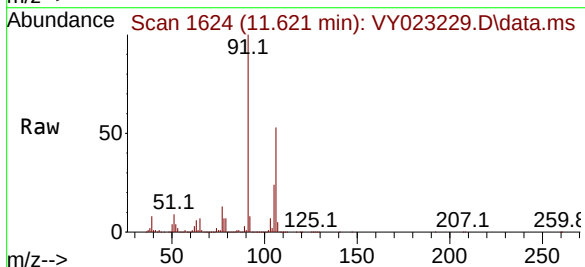
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

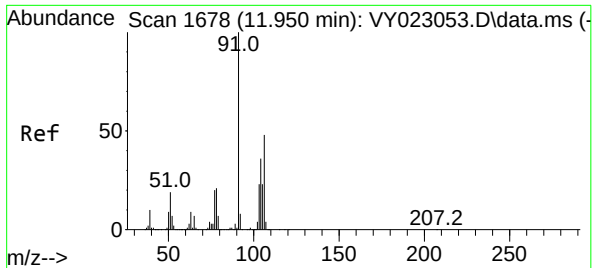
Tgt Ion: 91 Resp: 2388519
Ion Ratio Lower Upper
91 100
106 32.3 25.0 37.4



#68
m/p-Xylenes
Concen: 287.460 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Tgt Ion:106 Resp: 4347804
Ion Ratio Lower Upper
106 100
91 188.3 158.6 238.0

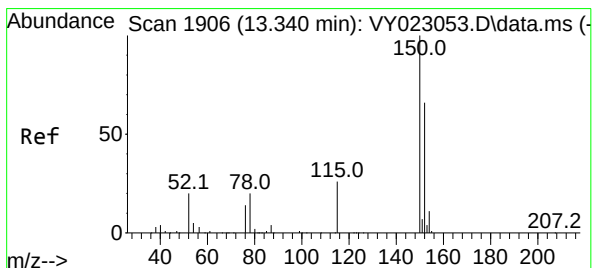
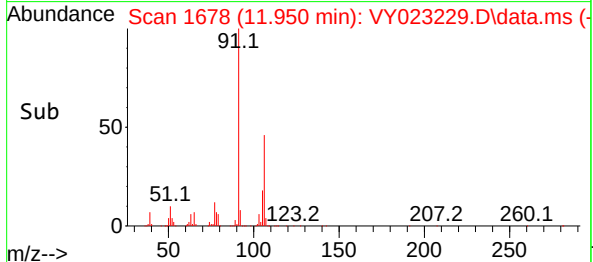
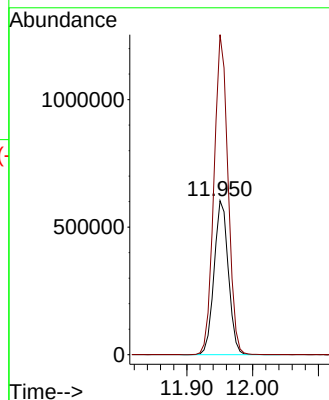
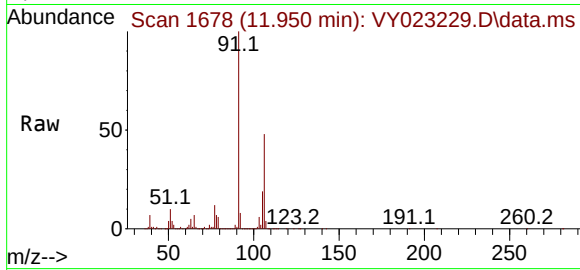




#69
o-Xylene
Concen: 64.126 ug/l
RT: 11.950 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

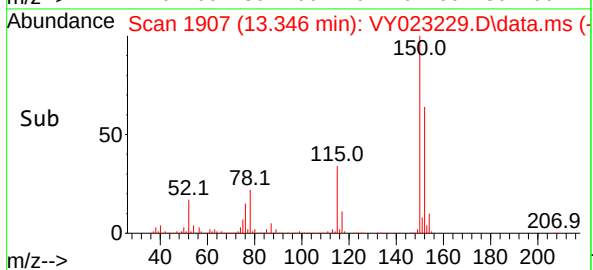
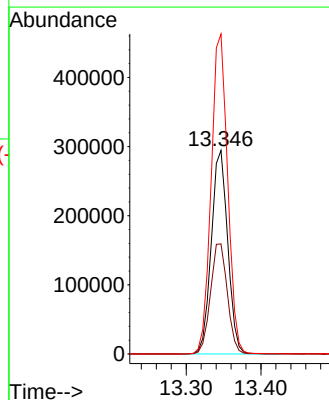
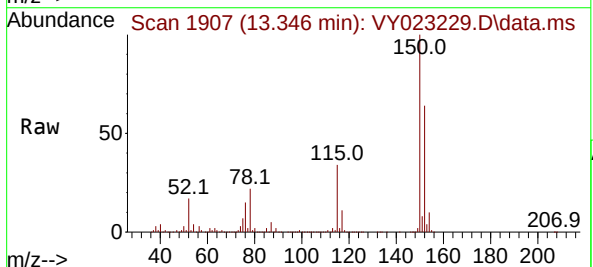
Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

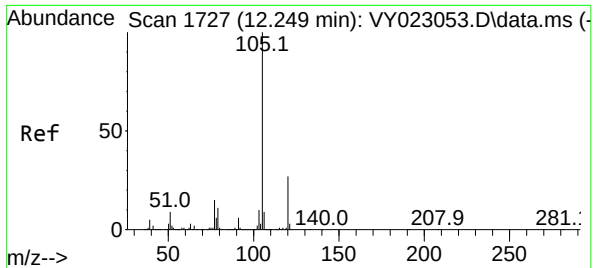
Tgt Ion:106 Resp: 908406
Ion Ratio Lower Upper
106 100
91 205.5 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

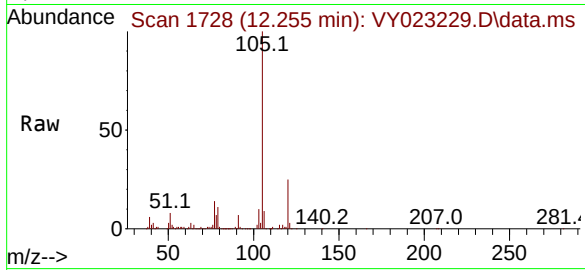
Tgt Ion:152 Resp: 449321
Ion Ratio Lower Upper
152 100
115 55.8 28.2 84.6
150 157.9 0.0 348.0



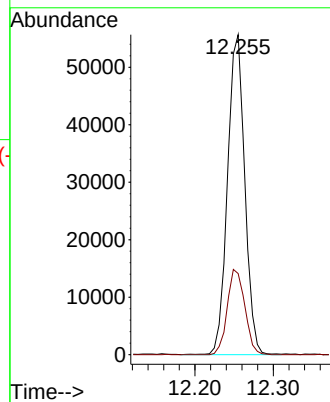
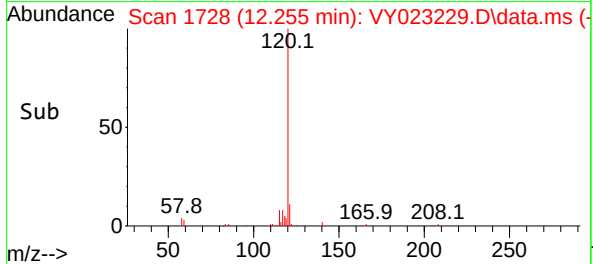


#73
Isopropylbenzene
Concen: 2.689 ug/l
RT: 12.255 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023229.D
Acq: 28 Aug 2025 16:15

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R



Tgt Ion:105 Resp: 85272
Ion Ratio Lower Upper
105 100
120 27.1 13.4 40.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023229.D
Acq On : 28 Aug 2025 16:15
Operator : SY/MD
Sample : Q2964-01
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Title : SW846 8260

Signal : TIC: VY023229.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.634	960	970	976	rBV	477125	1142278	4.57%	2.066%
2	7.707	976	982	994	rVB	670624	1527300	6.12%	2.762%
3	8.061	1031	1040	1055	rBV	416459	929327	3.72%	1.681%
4	8.616	1122	1131	1146	rBV	1182392	2309425	9.25%	4.177%
5	10.103	1367	1375	1383	rBV	1912023	3282635	13.15%	5.937%
6	11.207	1547	1556	1566	rVB2	611404	1344039	5.38%	2.431%
7	11.304	1566	1572	1583	rBV	668638	1087612	4.36%	1.967%
8	11.414	1583	1590	1599	rBV	1953784	3082833	12.35%	5.575%
9	11.518	1599	1607	1615	rBV	3574639	5353173	21.44%	9.681%
10	11.621	1615	1624	1635	rBV	14804483	24970700	100.00%	45.159%
11	11.950	1670	1678	1686	rBV	3452211	5305940	21.25%	9.596%
12	12.401	1746	1752	1764	rVB	1464160	2349149	9.41%	4.248%
13	13.346	1899	1907	1916	rVB	1659463	2610159	10.45%	4.720%

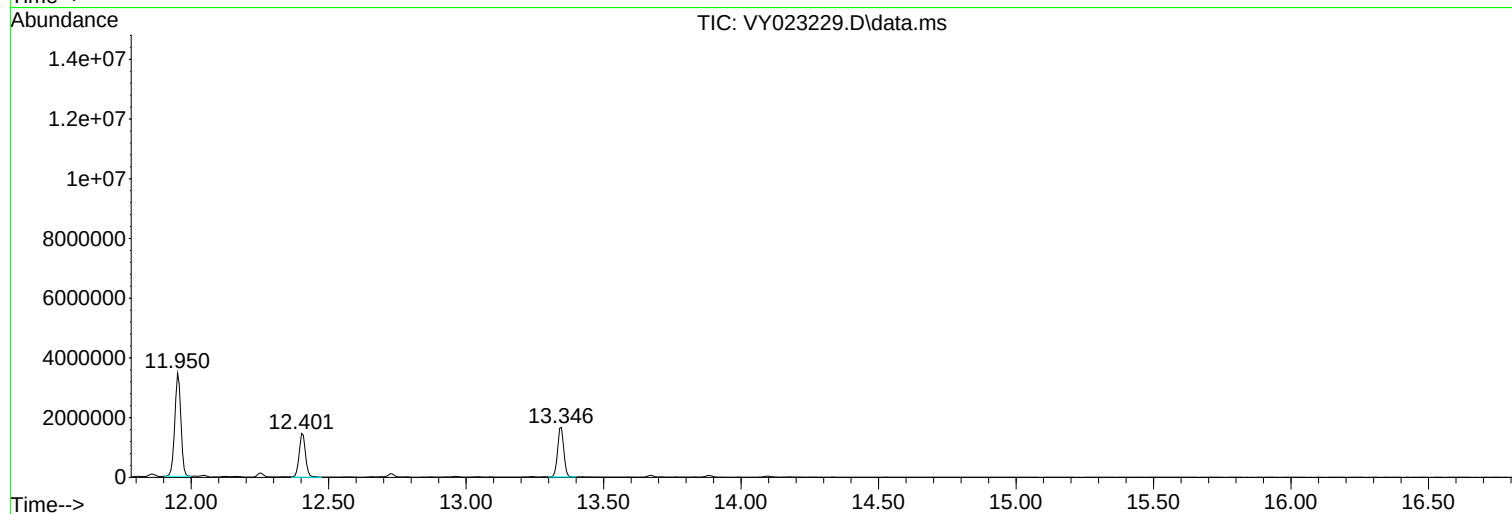
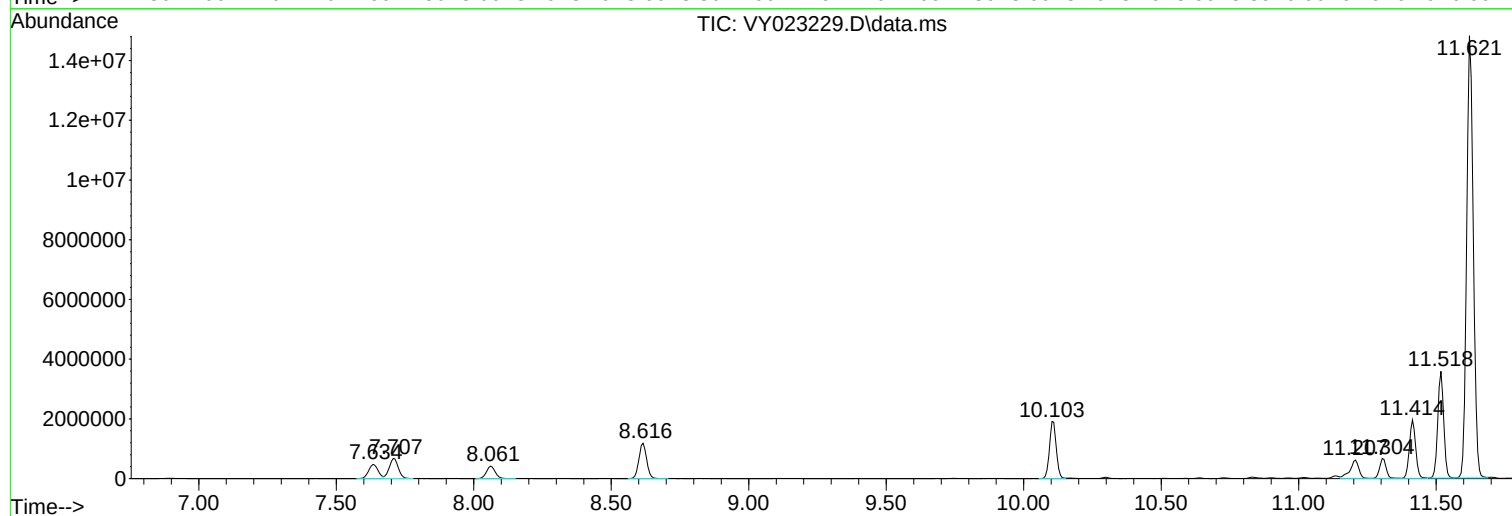
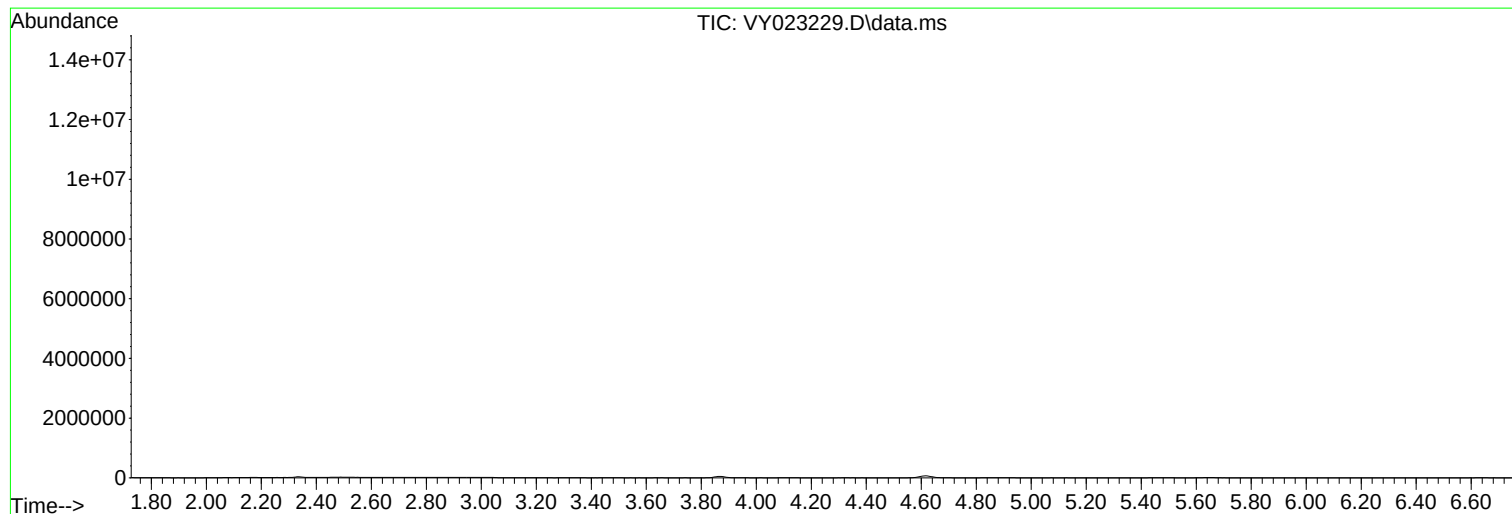
Sum of corrected areas: 55294570

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023229.D
Acq On : 28 Aug 2025 16:15
Operator : SY/MD
Sample : Q2964-01
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023229.D
Acq On : 28 Aug 2025 16:15
Operator : SY/MD
Sample : Q2964-01
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

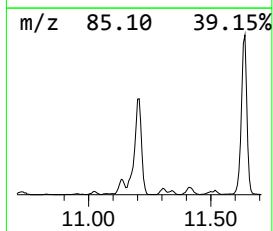
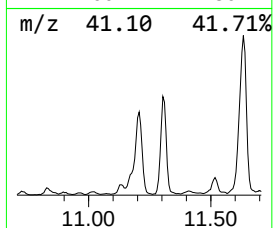
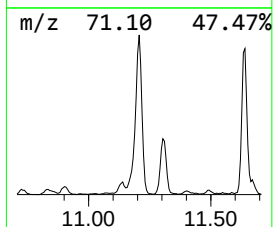
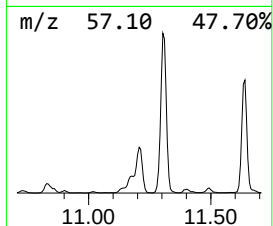
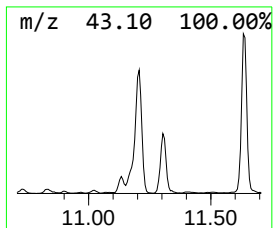
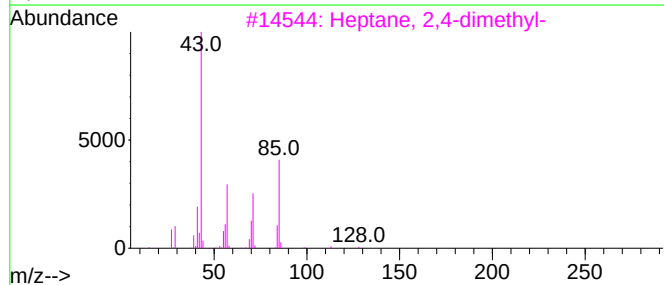
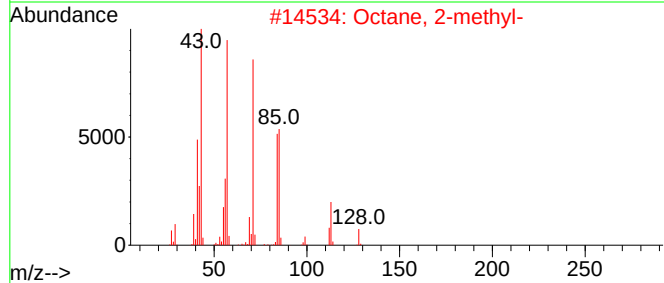
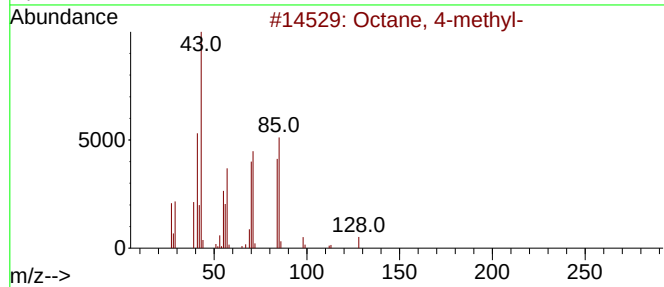
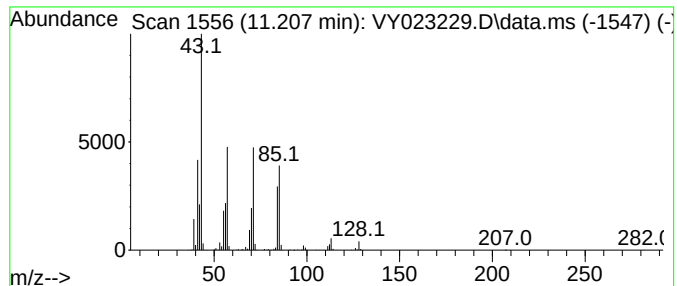
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

Peak Number 1 Octane, 4-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.207	21.80 ug/l	1344040	Chlorobenzene-d5	11.414

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 4-methyl-	128	C9H20	002216-34-4	76
2			Octane, 2-methyl-	128	C9H20	003221-61-2	72
3			Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
4			Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	53
5			Hexane, 3-ethyl-	114	C8H18	000619-99-8	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023229.D
Acq On : 28 Aug 2025 16:15
Operator : SY/MD
Sample : Q2964-01
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

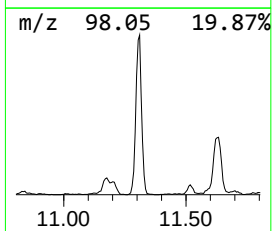
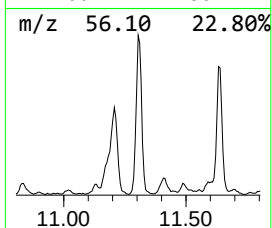
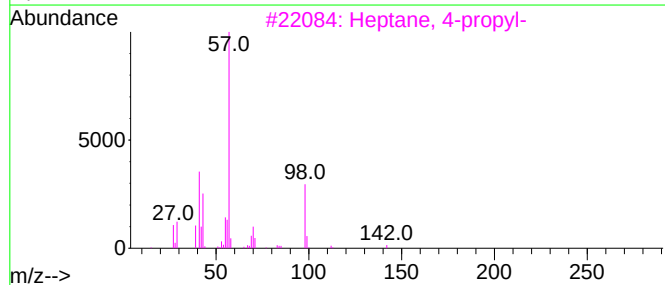
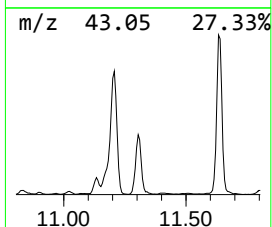
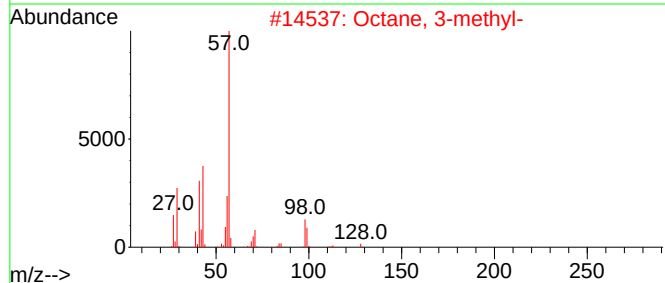
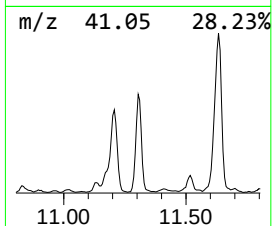
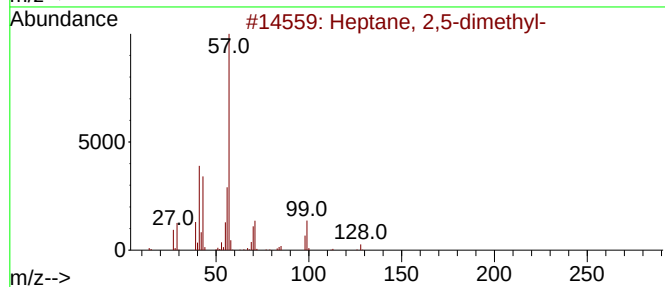
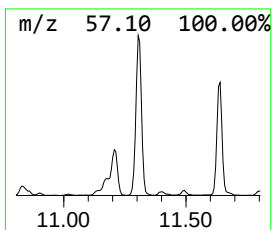
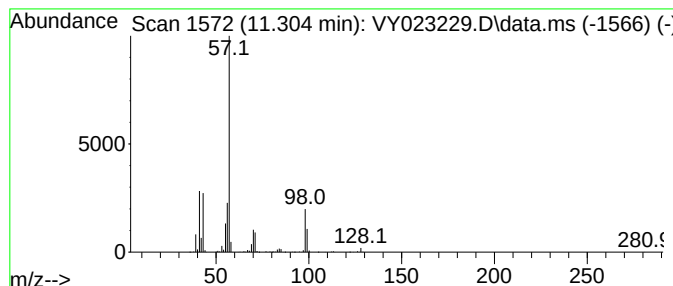
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

Peak Number 2 Heptane, 2,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.304	17.64 ug/l	1087610	Chlorobenzene-d5	11.414

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	87
2			Octane, 3-methyl-	128	C9H20	002216-33-3	80
3			Heptane, 4-propyl-	142	C10H22	003178-29-8	59
4			Heptane, 4-(1-methylethyl)-	142	C10H22	052896-87-4	59
5			Heptane, 3-ethyl-	128	C9H20	015869-80-4	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023229.D
Acq On : 28 Aug 2025 16:15
Operator : SY/MD
Sample : Q2964-01
Misc : 7.04g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBBX4R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.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
Octane, 4-methyl-	11.207	21.8	ug/l	1344040	3	11.414	3082830	50.0
Heptane, 2,5-di...	11.304	17.6	ug/l	1087610	3	11.414	3082830	50.0

Report of Analysis

Client:	G Environmental	Date Collected:	08/25/25
Project:	Buff	Date Received:	08/26/25
Client Sample ID:	RPXY1R	SDG No.:	Q2964
Lab Sample ID:	Q2964-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	7.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087689.D	20	08/28/25 16:32	VN082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	870	U	870	3800	ug/Kg
74-87-3	Chloromethane	870	U	870	3800	ug/Kg
75-01-4	Vinyl Chloride	600	U	600	3800	ug/Kg
74-83-9	Bromomethane	820	U	820	3800	ug/Kg
75-00-3	Chloroethane	960	U	960	3800	ug/Kg
75-69-4	Trichlorofluoromethane	930	U	930	3800	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	810	U	810	3800	ug/Kg
75-35-4	1,1-Dichloroethene	760	U	760	3800	ug/Kg
67-64-1	Acetone	3600	U	3600	19100	ug/Kg
75-15-0	Carbon Disulfide	810	U	810	3800	ug/Kg
1634-04-4	Methyl tert-butyl Ether	560	U	560	3800	ug/Kg
79-20-9	Methyl Acetate	1200	U	1200	3800	ug/Kg
75-09-2	Methylene Chloride	2700	U	2700	7600	ug/Kg
156-60-5	trans-1,2-Dichloroethene	660	U	660	3800	ug/Kg
75-34-3	1,1-Dichloroethane	610	U	610	3800	ug/Kg
110-82-7	Cyclohexane	600	U	600	3800	ug/Kg
78-93-3	2-Butanone	5000	U	5000	19100	ug/Kg
56-23-5	Carbon Tetrachloride	740	U	740	3800	ug/Kg
156-59-2	cis-1,2-Dichloroethene	570	U	570	3800	ug/Kg
74-97-5	Bromochloromethane	880	U	880	3800	ug/Kg
67-66-3	Chloroform	640	U	640	3800	ug/Kg
71-55-6	1,1,1-Trichloroethane	710	U	710	3800	ug/Kg
108-87-2	Methylcyclohexane	700	U	700	3800	ug/Kg
71-43-2	Benzene	600	U	600	3800	ug/Kg
107-06-2	1,2-Dichloroethane	600	U	600	3800	ug/Kg
79-01-6	Trichloroethene	620	U	620	3800	ug/Kg
78-87-5	1,2-Dichloropropane	700	U	700	3800	ug/Kg
75-27-4	Bromodichloromethane	600	U	600	3800	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2700	U	2700	19100	ug/Kg
108-88-3	Toluene	2100	J	600	3800	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	08/25/25
Project:	Buff	Date Received:	08/26/25
Client Sample ID:	RPXY1R	SDG No.:	Q2964
Lab Sample ID:	Q2964-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	7.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087689.D	20	08/28/25 16:32	VN082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	500	U	500	3800	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	470	U	470	3800	ug/Kg
79-00-5	1,1,2-Trichloroethane	700	U	700	3800	ug/Kg
591-78-6	2-Hexanone	2800	U	2800	19100	ug/Kg
124-48-1	Dibromochloromethane	670	U	670	3800	ug/Kg
106-93-4	1,2-Dibromoethane	670	U	670	3800	ug/Kg
127-18-4	Tetrachloroethene	800	U	800	3800	ug/Kg
108-90-7	Chlorobenzene	700	U	700	3800	ug/Kg
100-41-4	Ethyl Benzene	116000	E	510	3800	ug/Kg
179601-23-1	m/p-Xylenes	487000	E	950	7600	ug/Kg
95-47-6	o-Xylene	126000	E	630	3800	ug/Kg
100-42-5	Styrene	540	U	540	3800	ug/Kg
75-25-2	Bromoform	660	U	660	3800	ug/Kg
98-82-8	Isopropylbenzene	600	U	600	3800	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	930	U	930	3800	ug/Kg
541-73-1	1,3-Dichlorobenzene	1300	U	1300	3800	ug/Kg
106-46-7	1,4-Dichlorobenzene	1200	U	1200	3800	ug/Kg
95-50-1	1,2-Dichlorobenzene	1100	U	1100	3800	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1400	U	1400	3800	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2300	U	2300	3800	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2400	U	2400	3800	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		70 (63) - 130 (155)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (17) - 130 (146)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	149000	8.206			
540-36-3	1,4-Difluorobenzene	340000	9.082			
3114-55-4	Chlorobenzene-d5	325000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.77			

Report of Analysis

Client:	G Environmental		Date Collected:	08/25/25
Project:	Buff		Date Received:	08/26/25
Client Sample ID:	RPXY1R		SDG No.:	Q2964
Lab Sample ID:	Q2964-04		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	85
Sample Wt/Vol:	7.69	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	MED
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087689.D	20	08/28/25 16:32	VN082825

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087689.D
 Acq On : 28 Aug 2025 16:32
 Operator : JC\MD
 Sample : Q2964-04 20X
 Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RPXY1R

Quant Time: Aug 29 03:21:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

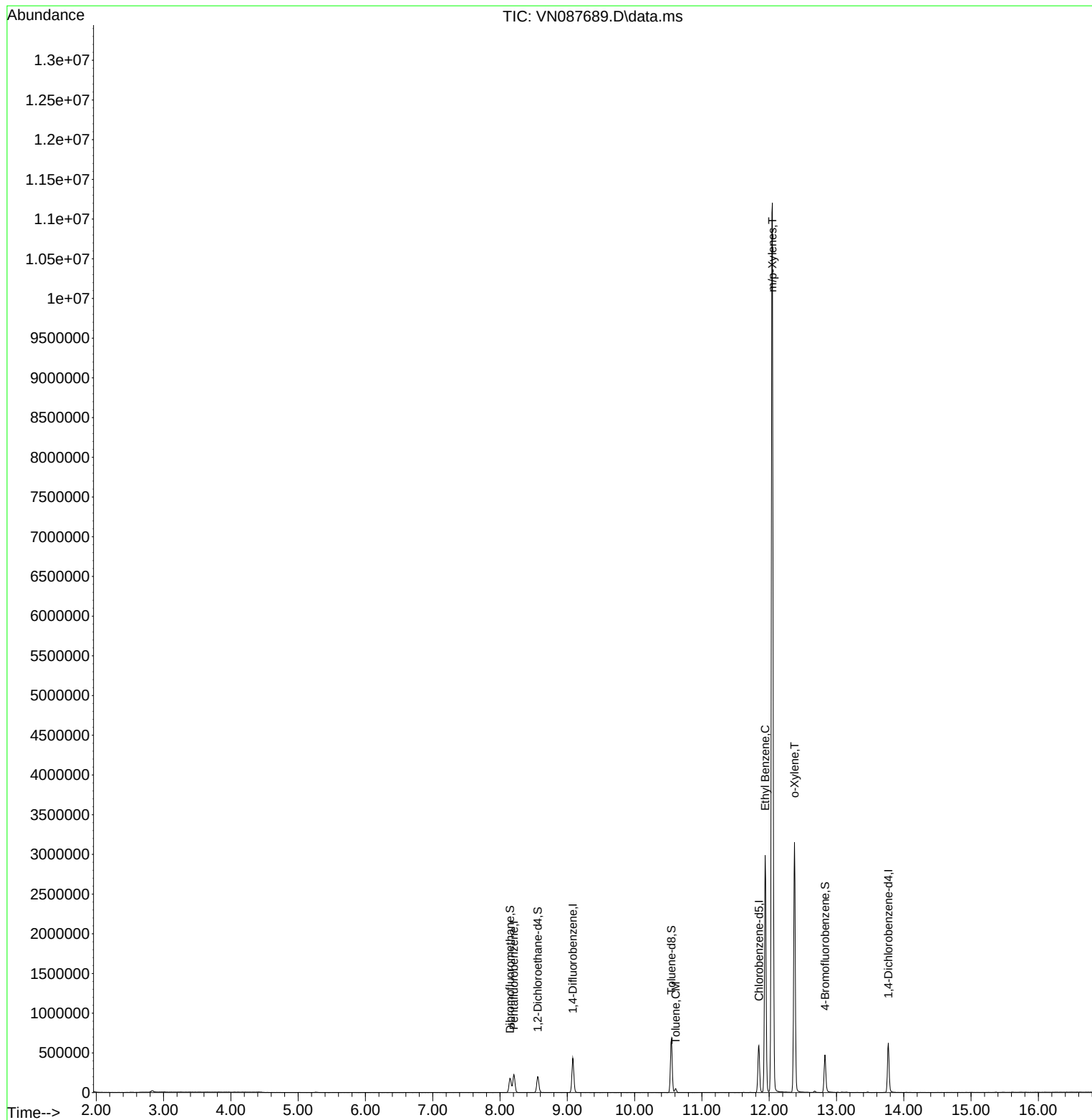
Internal Standards						
1) Pentafluorobenzene	8.206	168	148628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	339597	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	324921	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	157594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	168607	55.368	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.740%			
35) Dibromofluoromethane	8.147	113	127888	52.159	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.320%			
50) Toluene-d8	10.547	98	450991	49.144	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.829	95	169038	51.795	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%			
Target Compounds					Qvalue	
52) Toluene	10.612	92	19345	2.705	ug/l	99
67) Ethyl Benzene	11.941	91	2125249	151.847	ug/l	99
68) m/p-Xylenes	12.047	106	3268630	636.793	ug/l	100
69) o-Xylene	12.376	106	828002	164.604	ug/l	99

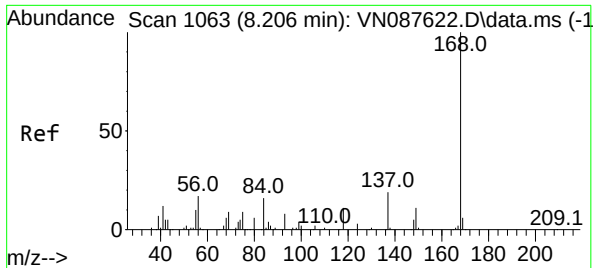
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087689.D
Acq On : 28 Aug 2025 16:32
Operator : JC\MD
Sample : Q2964-04 20X
Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

Quant Time: Aug 29 03:21:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

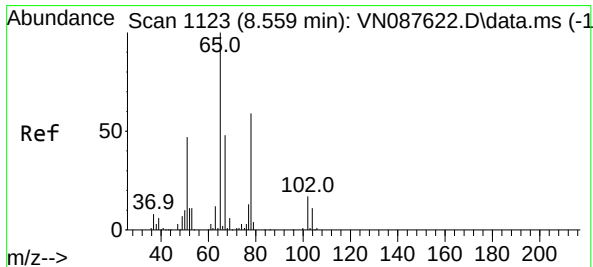
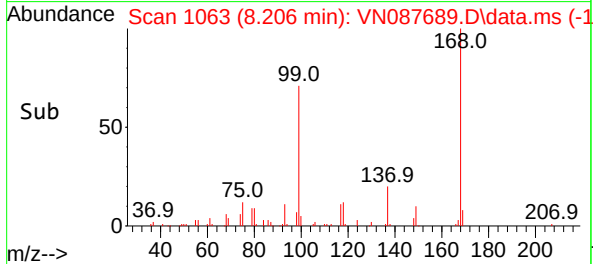
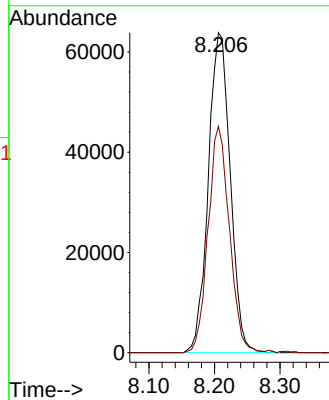
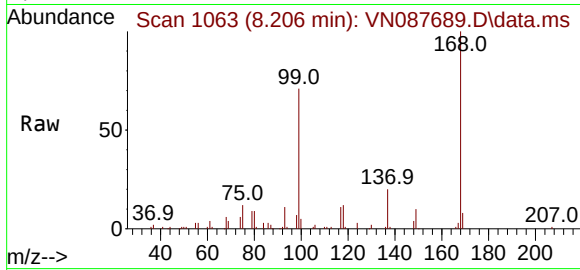




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

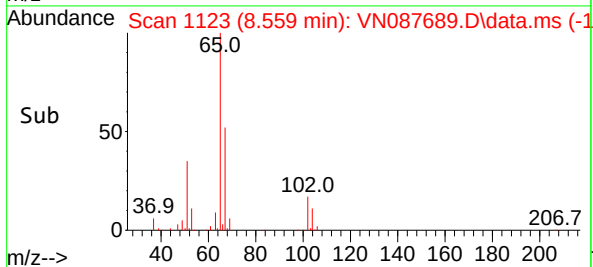
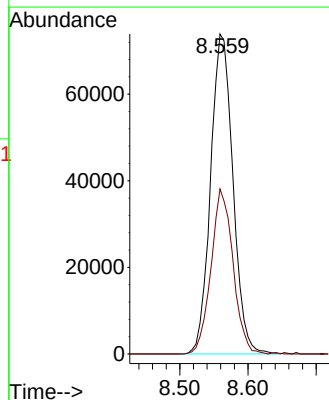
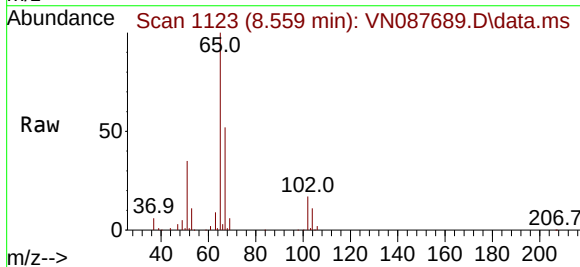
Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

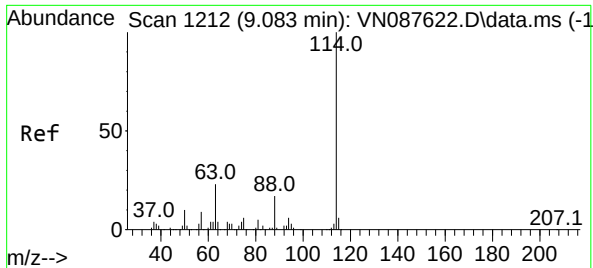
Tgt Ion:168 Resp: 148628
Ion Ratio Lower Upper
168 100
99 70.8 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 55.368 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

Tgt Ion: 65 Resp: 168607
Ion Ratio Lower Upper
65 100
67 50.7 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087689.D

Acq: 28 Aug 2025 16:32

Instrument :

MSVOA_N

ClientSampleId :

RPXY1R

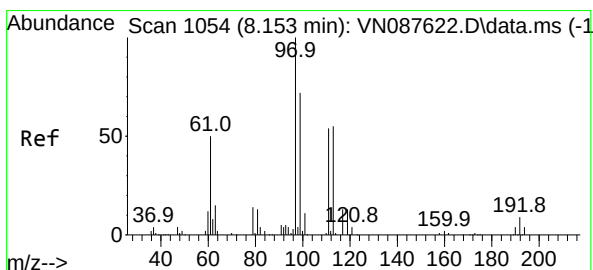
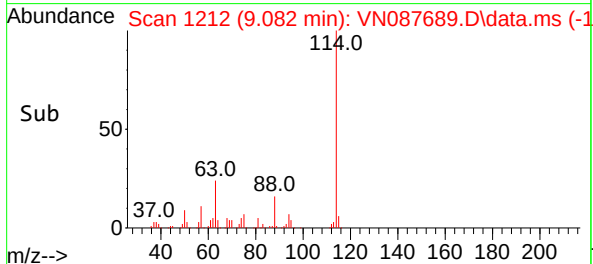
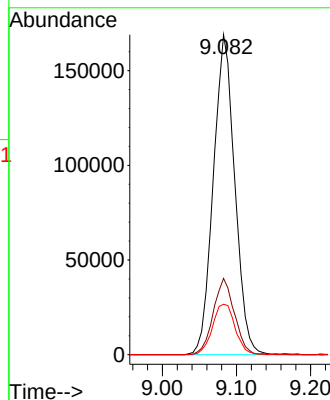
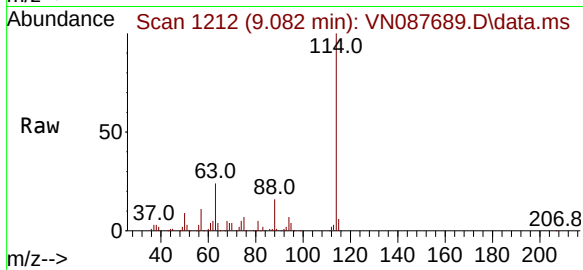
Tgt Ion:114 Resp: 339597

Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.2

88 15.7 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.159 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087689.D

Acq: 28 Aug 2025 16:32

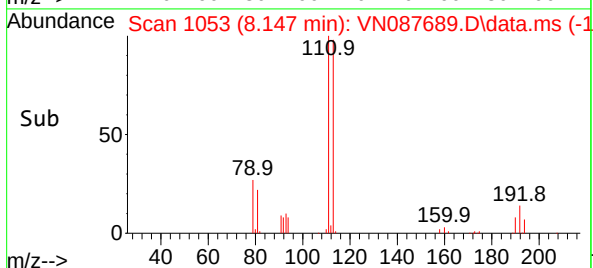
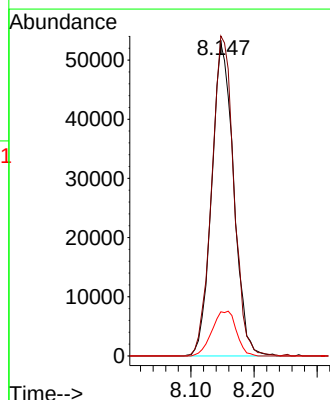
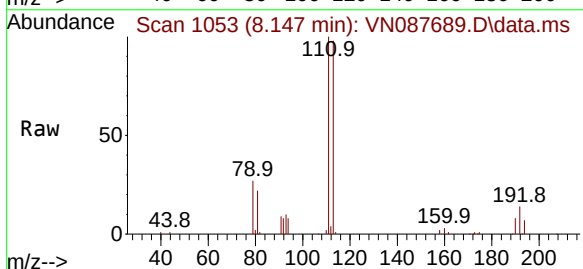
Tgt Ion:113 Resp: 127888

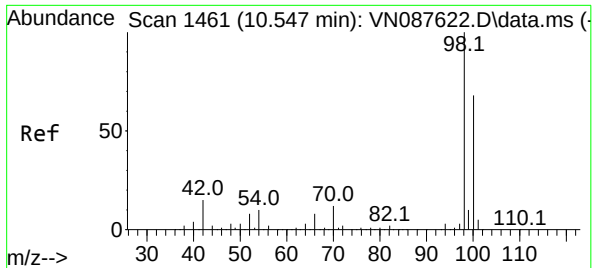
Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

192 15.8 12.8 19.2

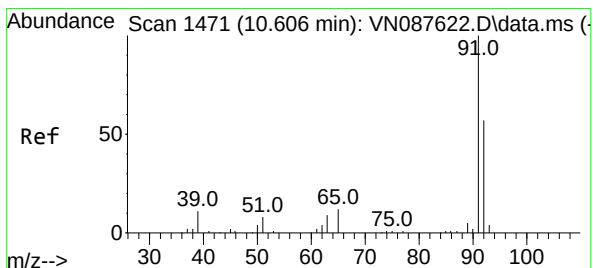
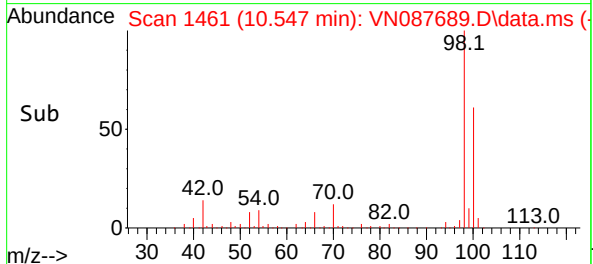
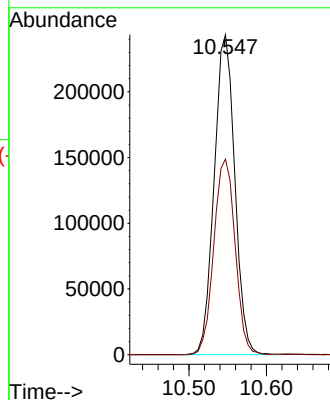
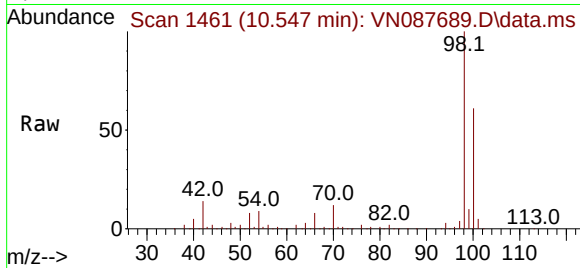




#50
Toluene-d8
Concen: 49.144 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

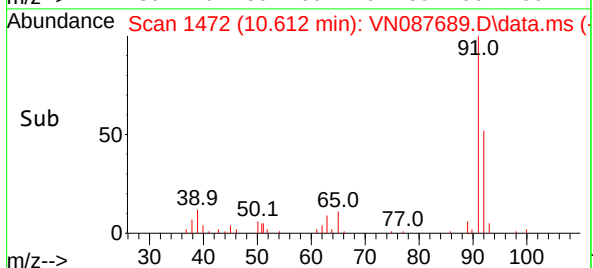
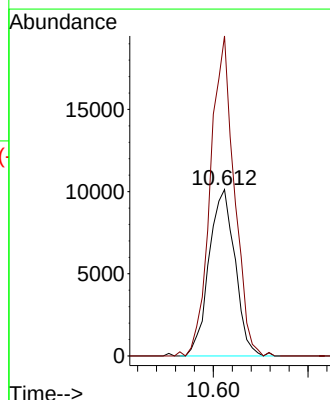
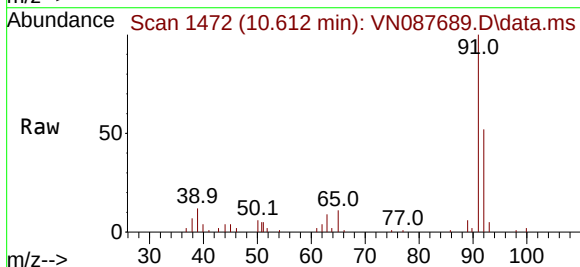
Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

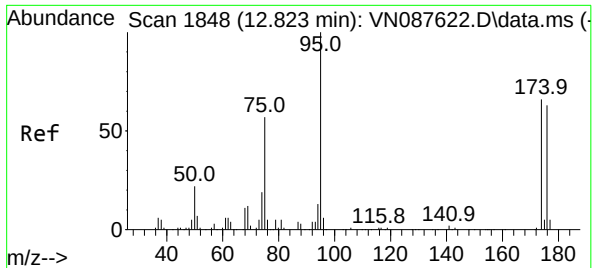
Tgt Ion: 98 Resp: 450991
Ion Ratio Lower Upper
98 100
100 63.1 52.8 79.2



#52
Toluene
Concen: 2.705 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

Tgt Ion: 92 Resp: 19345
Ion Ratio Lower Upper
92 100
91 176.5 140.4 210.6

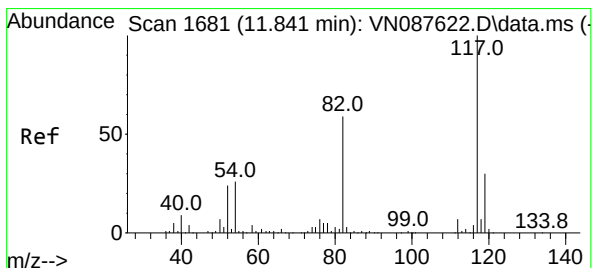
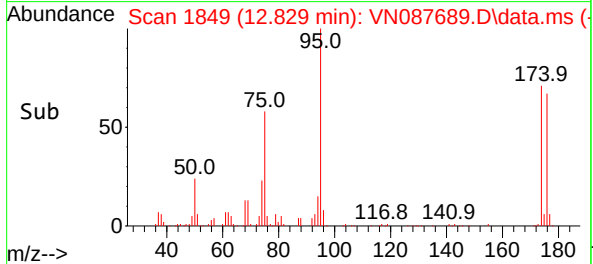
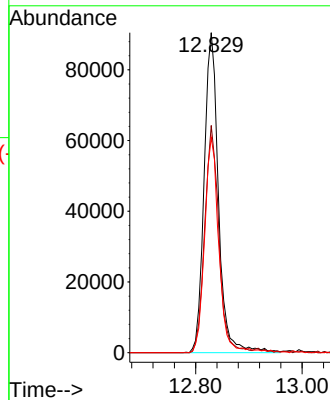
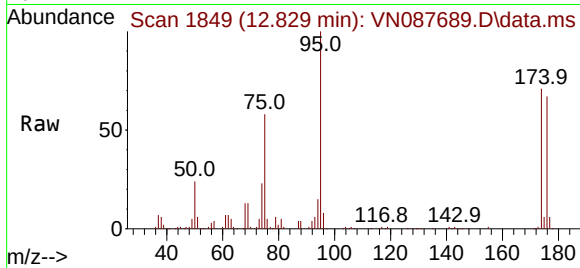




#62
4-Bromofluorobenzene
Concen: 51.795 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

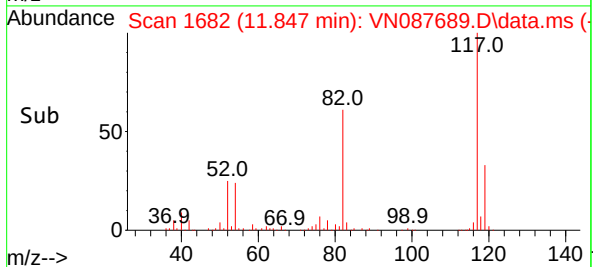
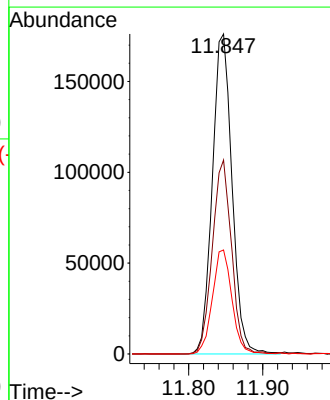
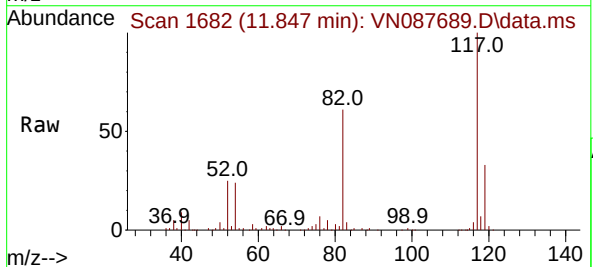
Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

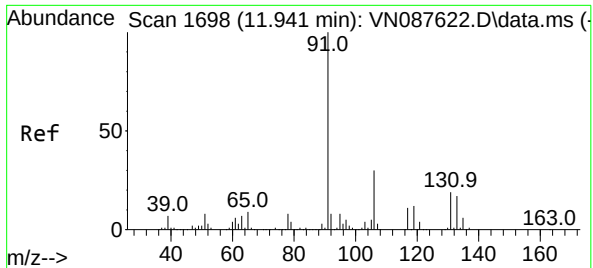
Tgt Ion: 95 Resp: 169038
Ion Ratio Lower Upper
95 100
174 70.2 0.0 138.4
176 67.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

Tgt Ion: 117 Resp: 324921
Ion Ratio Lower Upper
117 100
82 60.6 47.4 71.2
119 32.5 24.3 36.5





#67

Ethyl Benzene

Concen: 151.847 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VN087689.D

Acq: 28 Aug 2025 16:32

Instrument :

MSVOA_N

ClientSampleId :

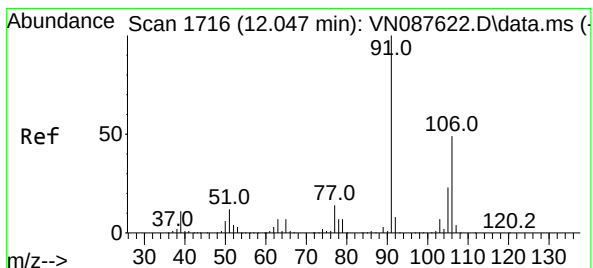
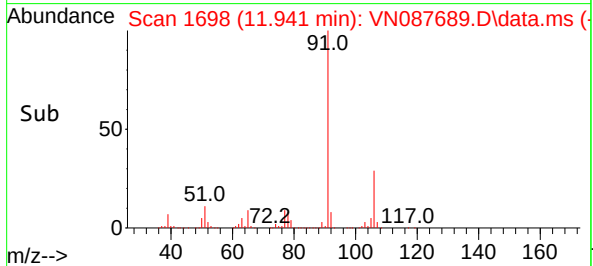
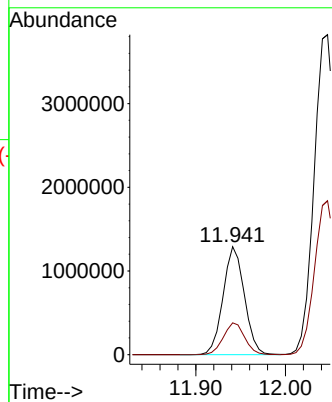
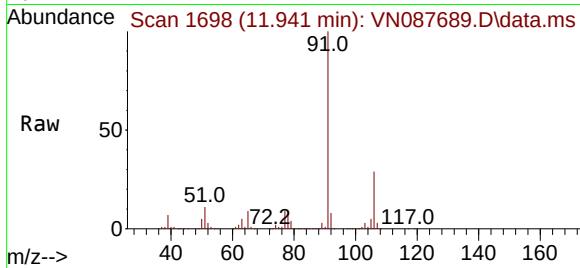
RPXY1R

Tgt Ion: 91 Resp: 2125249

Ion Ratio Lower Upper

91 100

106 29.5 24.1 36.1



#68

m/p-Xylenes

Concen: 636.793 ug/l

RT: 12.047 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VN087689.D

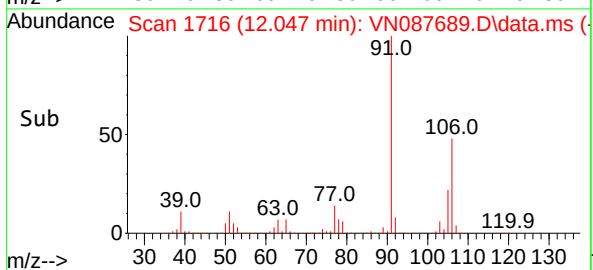
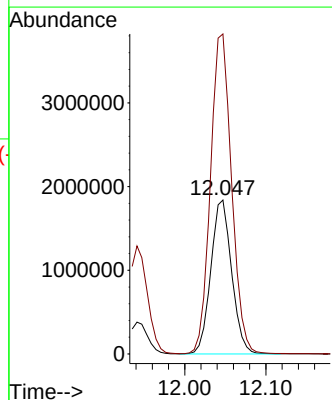
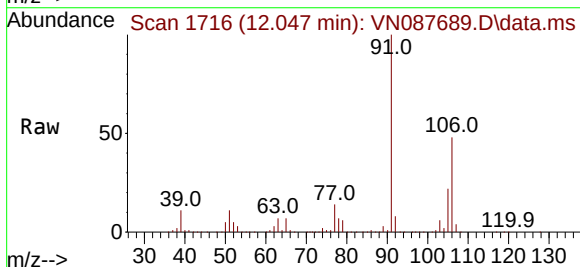
Acq: 28 Aug 2025 16:32

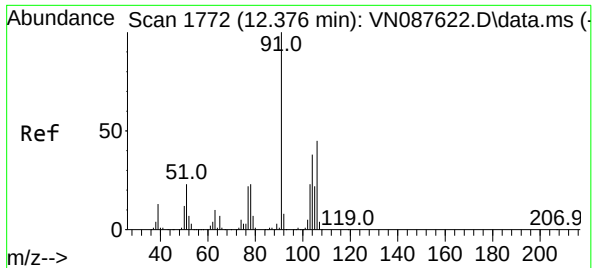
Tgt Ion:106 Resp: 3268630

Ion Ratio Lower Upper

106 100

91 211.6 169.3 253.9

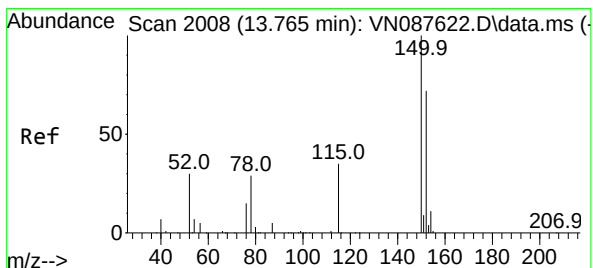
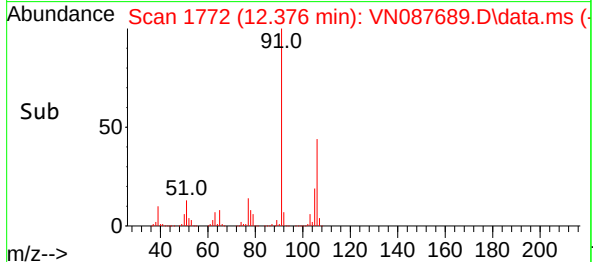
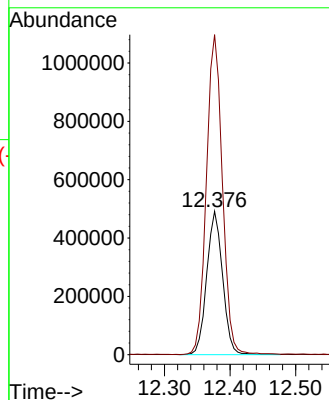
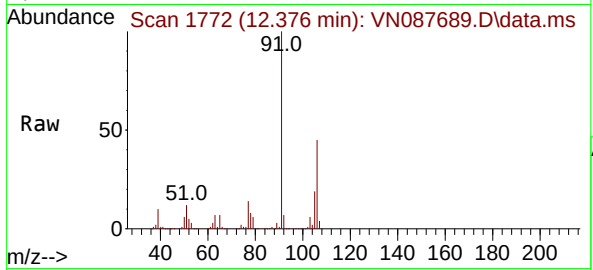




#69
o-Xylene
Concen: 164.604 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

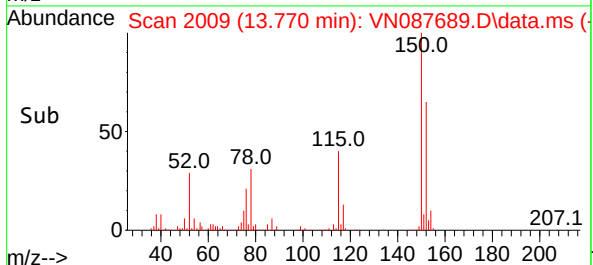
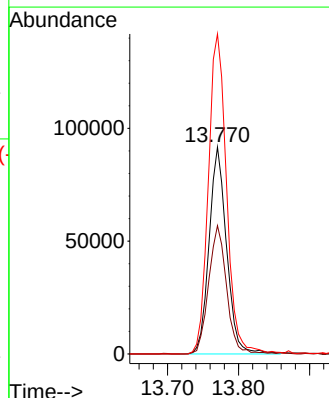
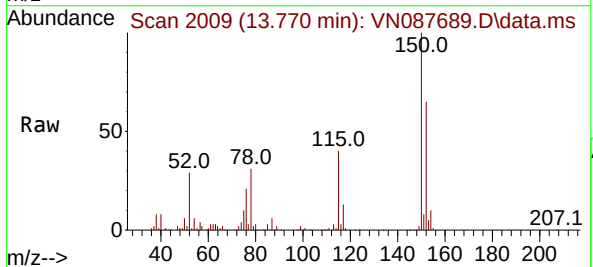
Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

Tgt Ion:106 Resp: 828002
Ion Ratio Lower Upper
106 100
91 224.7 111.4 334.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087689.D
Acq: 28 Aug 2025 16:32

Tgt Ion:152 Resp: 157594
Ion Ratio Lower Upper
152 100
115 63.3 32.3 96.8
150 160.5 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087689.D
 Acq On : 28 Aug 2025 16:32
 Operator : JC\MD
 Sample : Q2964-04 20X
 Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RPXY1R

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\82N082125W.M

Title : SW846 8260

Signal : TIC: VN087689.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.147	1043	1053	1058	rBV3	178993	432392	2.13%	1.164%
2	8.206	1058	1063	1076	rVB	224799	508863	2.51%	1.369%
3	8.559	1114	1123	1136	rBV	199549	463378	2.28%	1.247%
4	9.082	1203	1212	1225	rBV	431996	878548	4.33%	2.364%
5	10.547	1452	1461	1468	rBV	668549	1252926	6.18%	3.372%
6	11.847	1672	1682	1690	rBV	589302	1092669	5.39%	2.941%
7	11.941	1690	1698	1707	rVV	2982671	4966159	24.48%	13.365%
8	12.047	1707	1716	1736	rVB	11194578	20286229	100.00%	54.593%
9	12.376	1763	1772	1789	rBV	3147237	5313441	26.19%	14.299%
10	12.829	1841	1849	1862	rBV	475009	873284	4.30%	2.350%
11	13.770	2001	2009	2025	rBV	620784	1091361	5.38%	2.937%

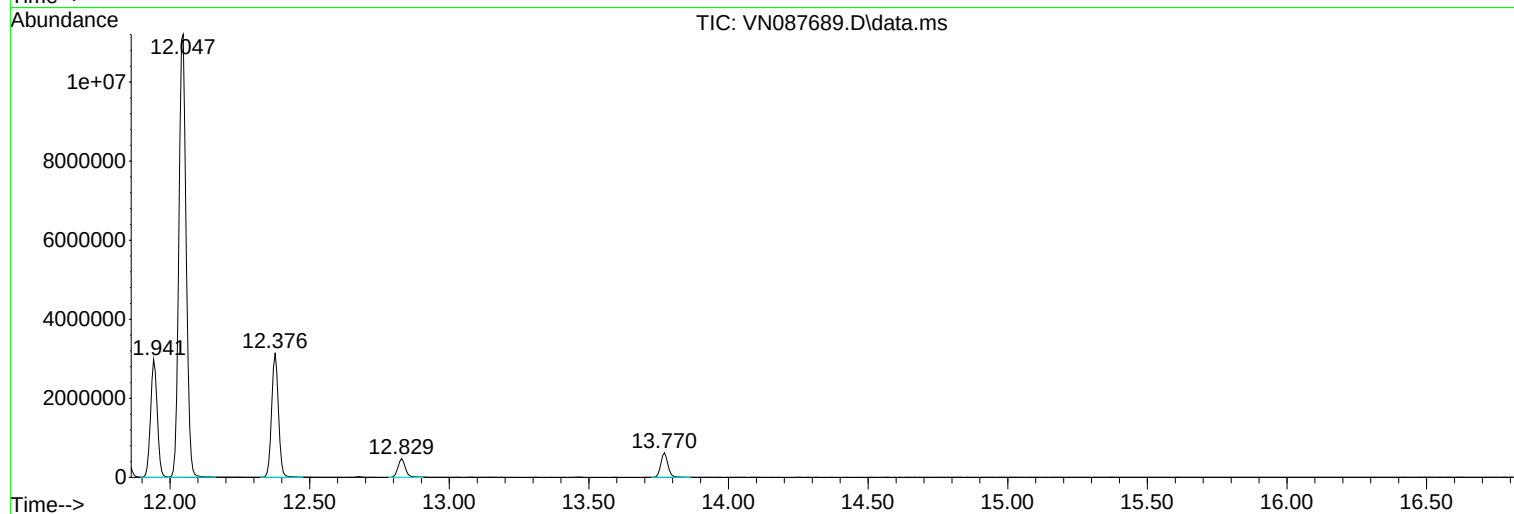
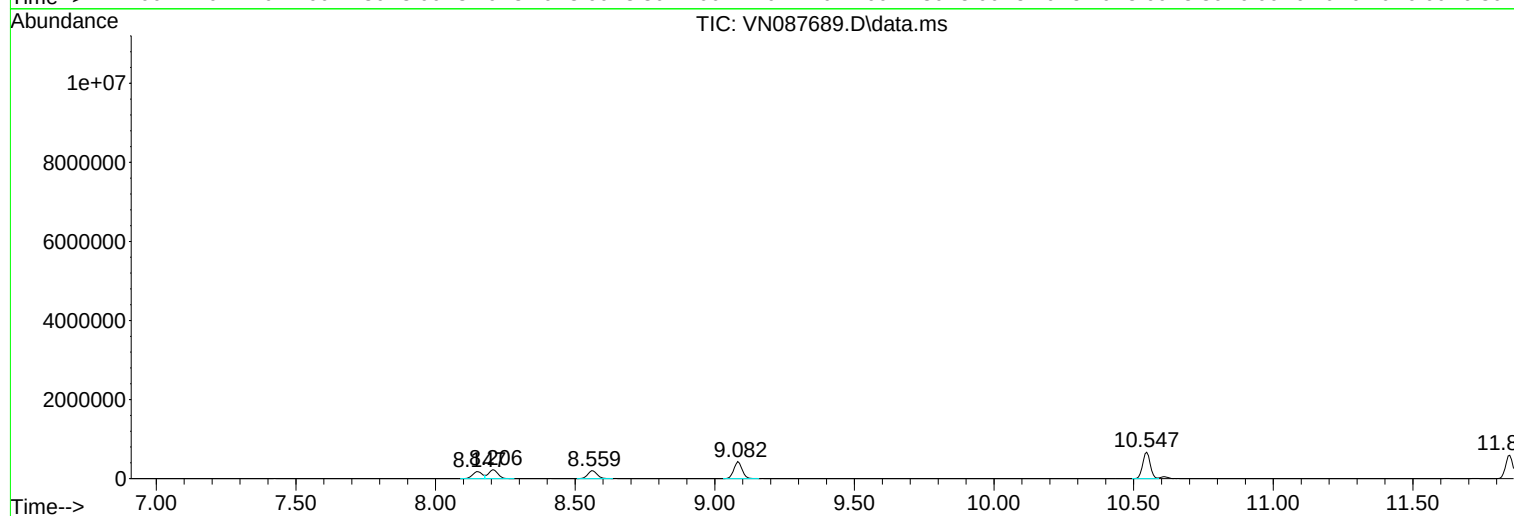
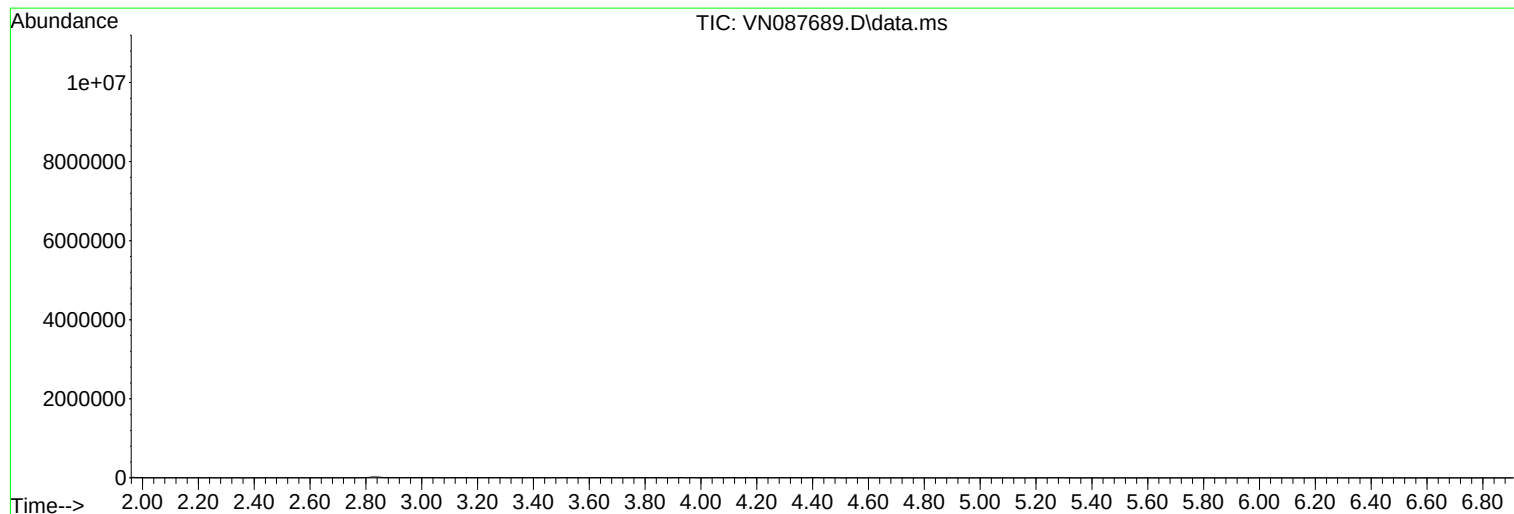
Sum of corrected areas: 37159250

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087689.D
Acq On : 28 Aug 2025 16:32
Operator : JC\MD
Sample : Q2964-04 20X
Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087689.D
Acq On : 28 Aug 2025 16:32
Operator : JC\MD
Sample : Q2964-04 20X
Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087689.D
Acq On : 28 Aug 2025 16:32
Operator : JC\MD
Sample : Q2964-04 20X
Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RPXY1R

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	G Environmental		Date Collected:	08/25/25	
Project:	Buff		Date Received:	08/26/25	
Client Sample ID:	RPXY1RDL		SDG No.:	Q2964	
Lab Sample ID:	Q2964-04DL		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	85	
Sample Wt/Vol:	7.69	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	MED	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087698.D	100	08/29/25 14:18	VN082925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4400	UD	4400	19100	ug/Kg
74-87-3	Chloromethane	4400	UD	4400	19100	ug/Kg
75-01-4	Vinyl Chloride	3000	UD	3000	19100	ug/Kg
74-83-9	Bromomethane	4100	UD	4100	19100	ug/Kg
75-00-3	Chloroethane	4800	UD	4800	19100	ug/Kg
75-69-4	Trichlorofluoromethane	4600	UD	4600	19100	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4100	UD	4100	19100	ug/Kg
75-35-4	1,1-Dichloroethene	3800	UD	3800	19100	ug/Kg
67-64-1	Acetone	18100	UD	18100	95600	ug/Kg
75-15-0	Carbon Disulfide	4100	UD	4100	19100	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2800	UD	2800	19100	ug/Kg
79-20-9	Methyl Acetate	5900	UD	5900	19100	ug/Kg
75-09-2	Methylene Chloride	13500	UD	13500	38200	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3300	UD	3300	19100	ug/Kg
75-34-3	1,1-Dichloroethane	3100	UD	3100	19100	ug/Kg
110-82-7	Cyclohexane	3000	UD	3000	19100	ug/Kg
78-93-3	2-Butanone	25000	UD	25000	95600	ug/Kg
56-23-5	Carbon Tetrachloride	3700	UD	3700	19100	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2900	UD	2900	19100	ug/Kg
74-97-5	Bromochloromethane	4400	UD	4400	19100	ug/Kg
67-66-3	Chloroform	3200	UD	3200	19100	ug/Kg
71-55-6	1,1,1-Trichloroethane	3600	UD	3600	19100	ug/Kg
108-87-2	Methylcyclohexane	3500	UD	3500	19100	ug/Kg
71-43-2	Benzene	3000	UD	3000	19100	ug/Kg
107-06-2	1,2-Dichloroethane	3000	UD	3000	19100	ug/Kg
79-01-6	Trichloroethene	3100	UD	3100	19100	ug/Kg
78-87-5	1,2-Dichloropropane	3500	UD	3500	19100	ug/Kg
75-27-4	Bromodichloromethane	3000	UD	3000	19100	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13700	UD	13700	95600	ug/Kg
108-88-3	Toluene	3000	UD	3000	19100	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	08/25/25
Project:	Buff	Date Received:	08/26/25
Client Sample ID:	RPXY1RDL	SDG No.:	Q2964
Lab Sample ID:	Q2964-04DL	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85
Sample Wt/Vol:	7.69 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087698.D	100	08/29/25 14:18	VN082925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2500	UD	2500	19100	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2400	UD	2400	19100	ug/Kg
79-00-5	1,1,2-Trichloroethane	3500	UD	3500	19100	ug/Kg
591-78-6	2-Hexanone	14100	UD	14100	95600	ug/Kg
124-48-1	Dibromochloromethane	3300	UD	3300	19100	ug/Kg
106-93-4	1,2-Dibromoethane	3400	UD	3400	19100	ug/Kg
127-18-4	Tetrachloroethene	4000	UD	4000	19100	ug/Kg
108-90-7	Chlorobenzene	3500	UD	3500	19100	ug/Kg
100-41-4	Ethyl Benzene	91900	D	2600	19100	ug/Kg
179601-23-1	m/p-Xylenes	381000	D	4700	38200	ug/Kg
95-47-6	o-Xylene	97300	D	3100	19100	ug/Kg
100-42-5	Styrene	2700	UD	2700	19100	ug/Kg
75-25-2	Bromoform	3300	UD	3300	19100	ug/Kg
98-82-8	Isopropylbenzene	3000	UD	3000	19100	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4600	UD	4600	19100	ug/Kg
541-73-1	1,3-Dichlorobenzene	6500	UD	6500	19100	ug/Kg
106-46-7	1,4-Dichlorobenzene	6000	UD	6000	19100	ug/Kg
95-50-1	1,2-Dichlorobenzene	5500	UD	5500	19100	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7000	UD	7000	19100	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	11400	UD	11400	19100	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	12200	UD	12200	19100	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		70 (63) - 130 (155)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 (70) - 130 (134)	99%	SPK: 50
2037-26-5	Toluene-d8	46.7		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (17) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	144000	8.206			
540-36-3	1,4-Difluorobenzene	342000	9.083			
3114-55-4	Chlorobenzene-d5	313000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.77			

Report of Analysis

Client:	G Environmental		Date Collected:	08/25/25
Project:	Buff		Date Received:	08/26/25
Client Sample ID:	RPXY1RDL		SDG No.:	Q2964
Lab Sample ID:	Q2964-04DL		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	85
Sample Wt/Vol:	7.69	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	MED
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087698.D	100	08/29/25 14:18	VN082925

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087698.D
 Acq On : 29 Aug 2025 14:18
 Operator : JC\MD
 Sample : Q2964-04DL 100X
 Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RPXY1RDL

Quant Time: Aug 29 22:55:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

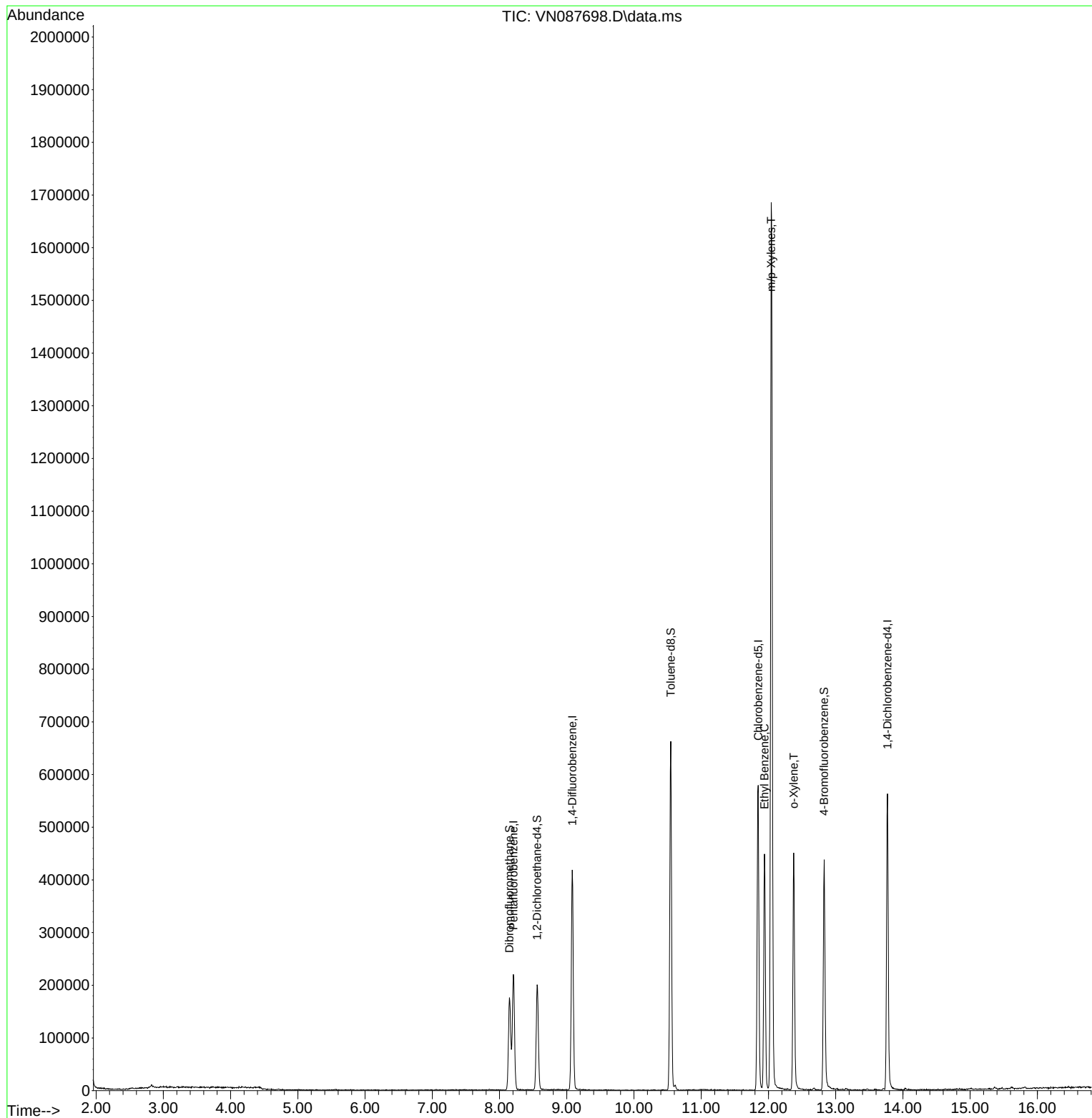
Internal Standards						
1) Pentafluorobenzene	8.206	168	144470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	341905	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	313398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	145966	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	164424	55.548	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.100%			
35) Dibromofluoromethane	8.147	113	122584	49.658	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.320%			
50) Toluene-d8	10.547	98	431806	46.736	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.480%			
62) 4-Bromofluorobenzene	12.829	95	155502	47.326	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.660%			
Target Compounds					Qvalue	
67) Ethyl Benzene	11.941	91	324437	24.033	ug/l	100
68) m/p-Xylenes	12.041	106	493325	99.643	ug/l	99
69) o-Xylene	12.376	106	123419	25.437	ug/l	100

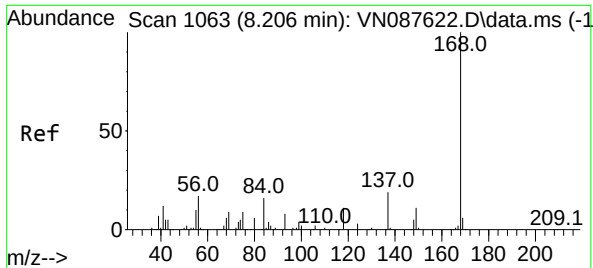
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087698.D
Acq On : 29 Aug 2025 14:18
Operator : JC\MD
Sample : Q2964-04DL 100X
Misc : 7.69g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

Quant Time: Aug 29 22:55:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

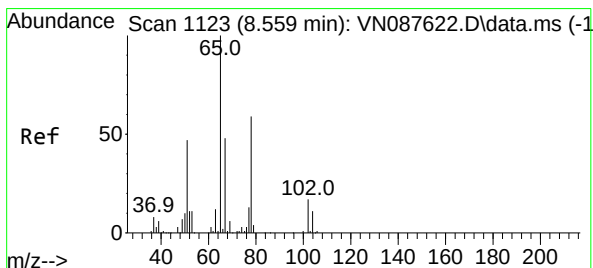
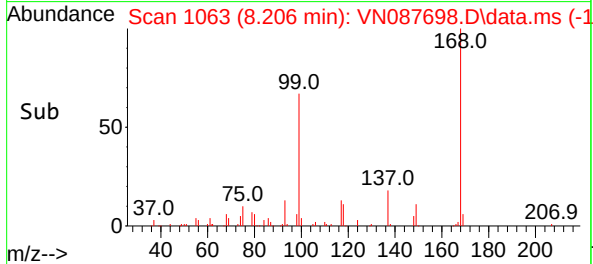
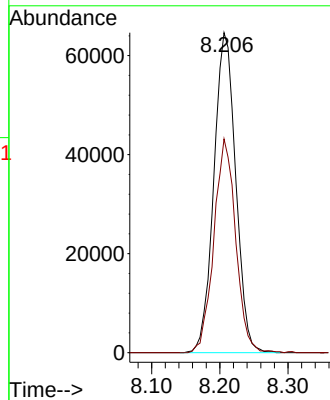
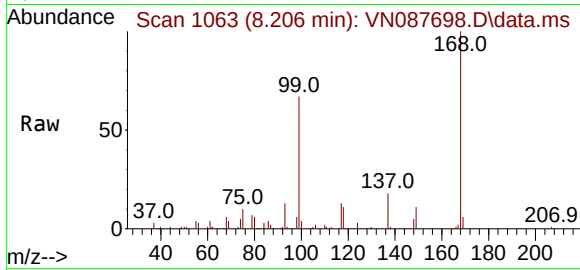




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

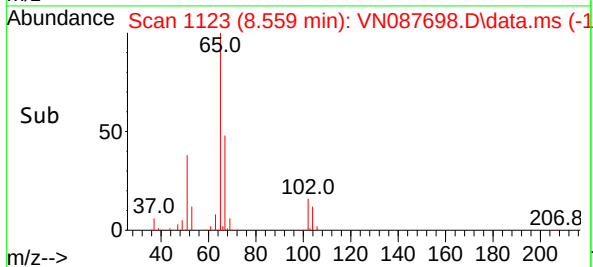
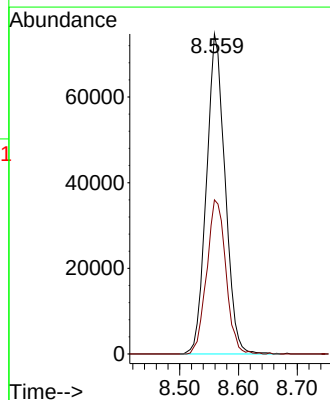
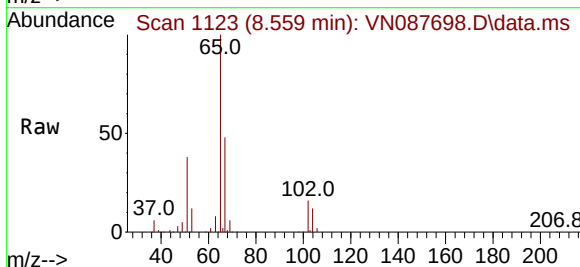
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

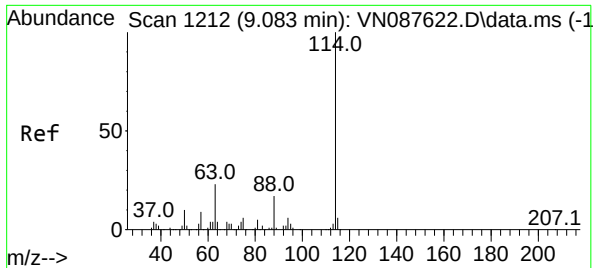
Tgt Ion:168 Resp: 144470
Ion Ratio Lower Upper
168 100
99 66.8 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 55.548 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 65 Resp: 164424
Ion Ratio Lower Upper
65 100
67 49.6 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

RPXY1RDL

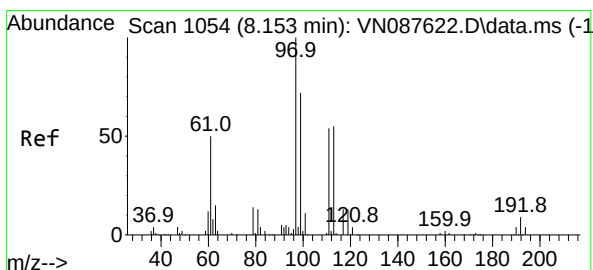
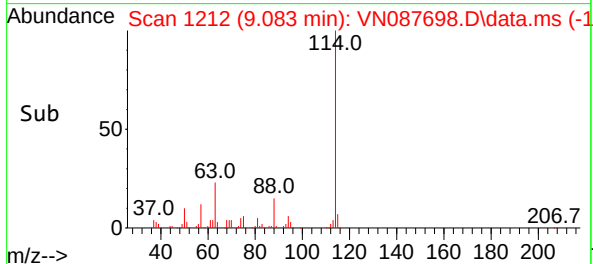
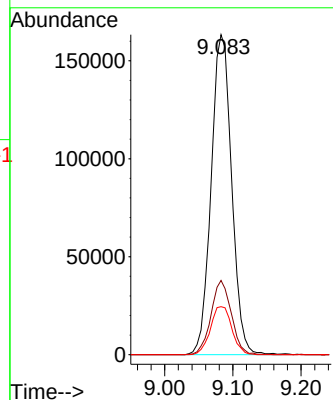
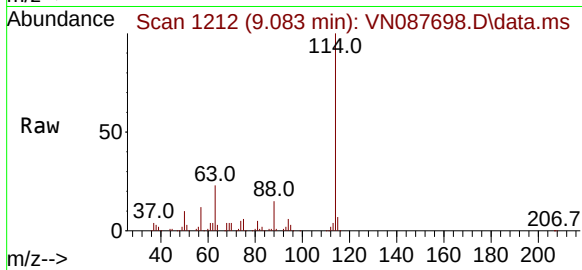
Tgt Ion:114 Resp: 341905

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.2

88 15.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 49.658 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087698.D

Acq: 29 Aug 2025 14:18

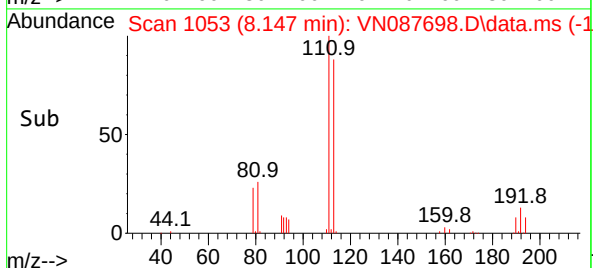
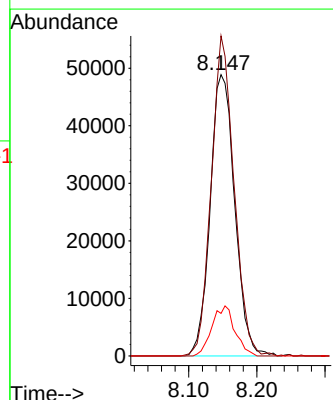
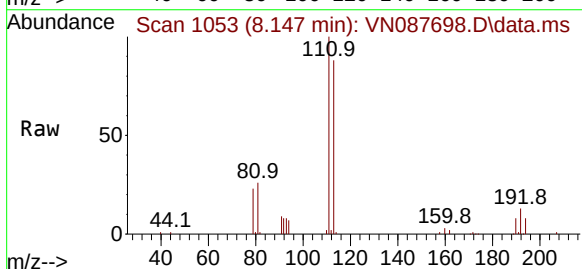
Tgt Ion:113 Resp: 122584

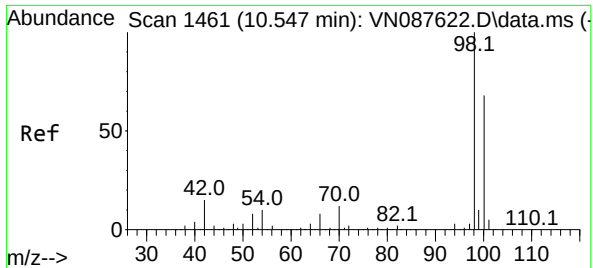
Ion Ratio Lower Upper

113 100

111 105.4 82.8 124.2

192 16.7 12.8 19.2

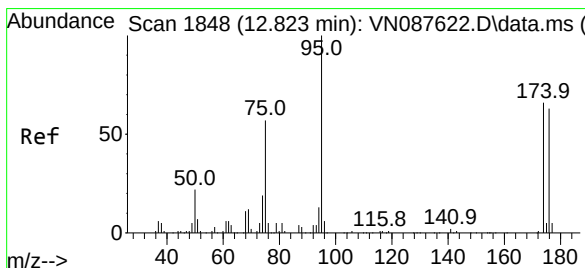
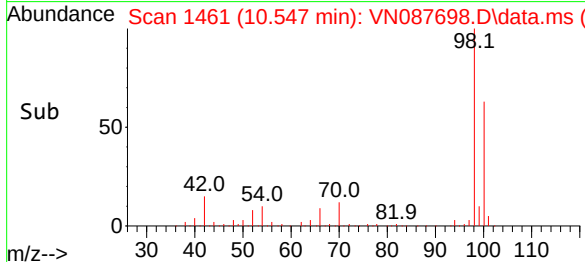
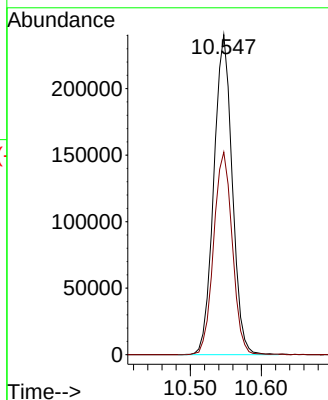
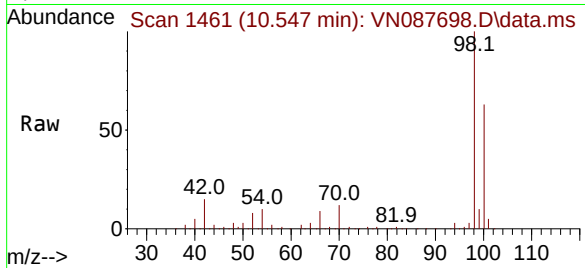




#50
Toluene-d8
Concen: 46.736 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

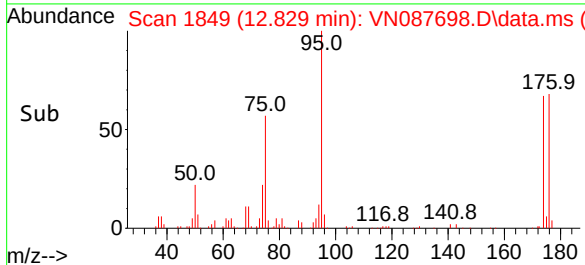
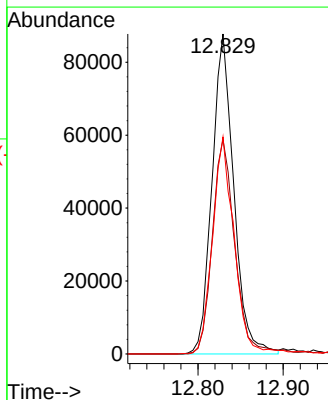
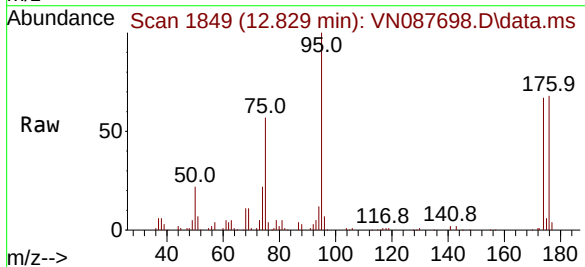
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

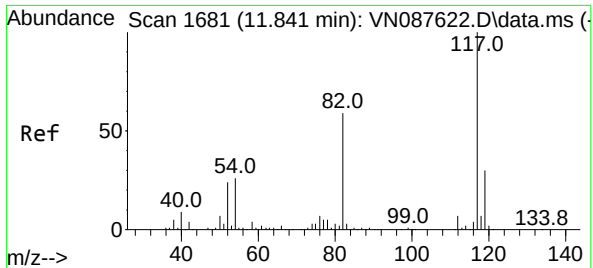
Tgt Ion: 98 Resp: 431806
Ion Ratio Lower Upper
98 100
100 63.9 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 47.326 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 95 Resp: 155502
Ion Ratio Lower Upper
95 100
174 69.5 0.0 138.4
176 67.8 0.0 132.6

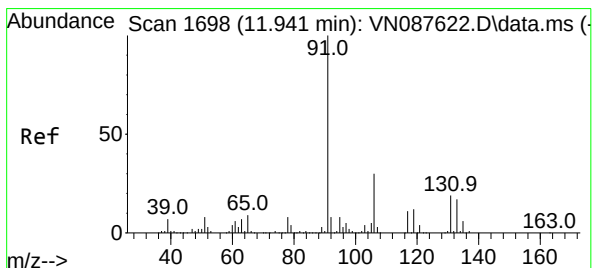
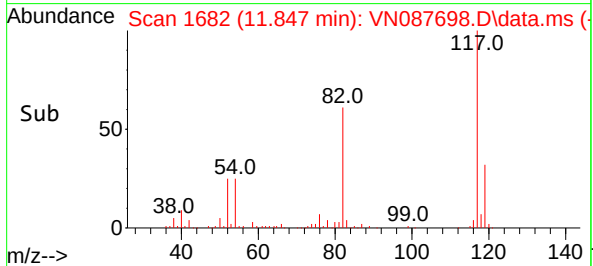
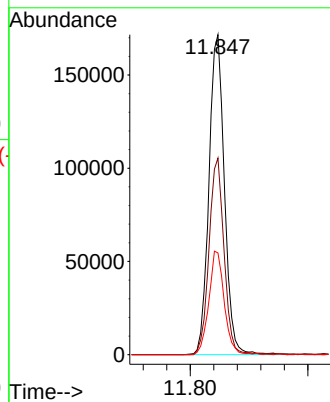
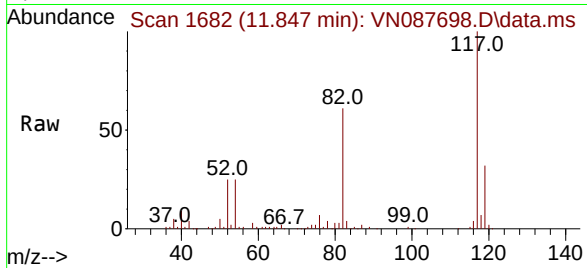




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

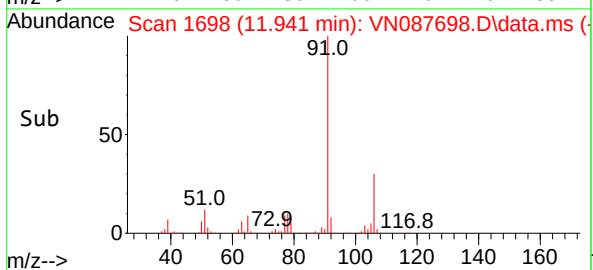
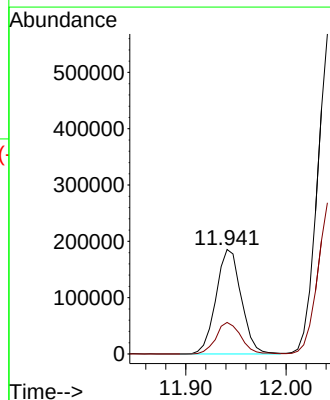
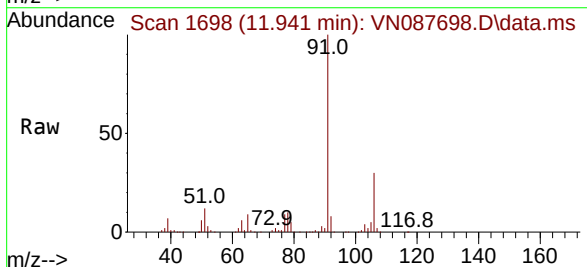
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

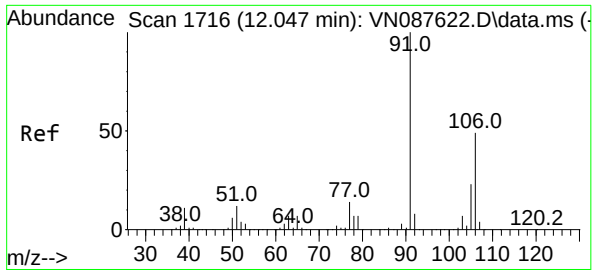
Tgt Ion:117 Resp: 313398
Ion Ratio Lower Upper
117 100
82 61.5 47.4 71.2
119 31.8 24.3 36.5



#67
Ethyl Benzene
Concen: 24.033 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion: 91 Resp: 324437
Ion Ratio Lower Upper
91 100
106 30.2 24.1 36.1

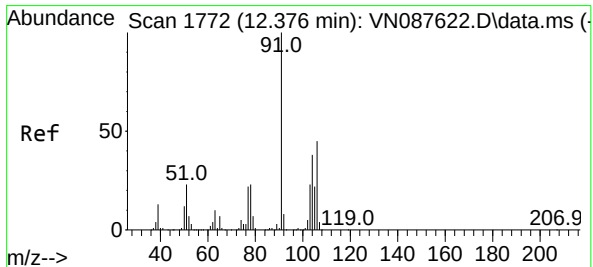
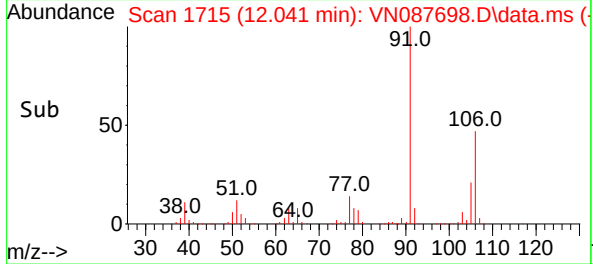
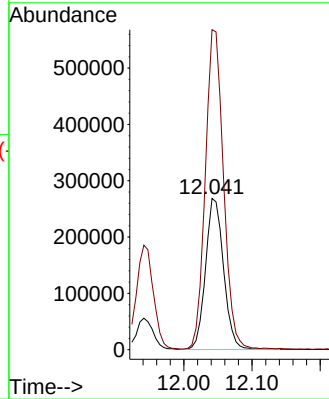
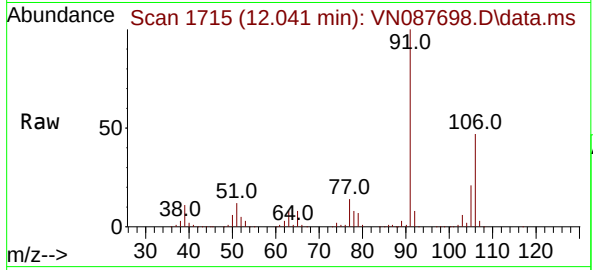




#68
m/p-Xylenes
Concen: 99.643 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

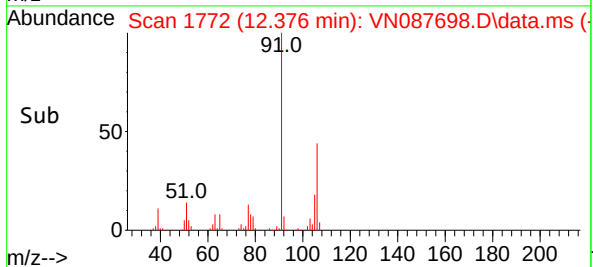
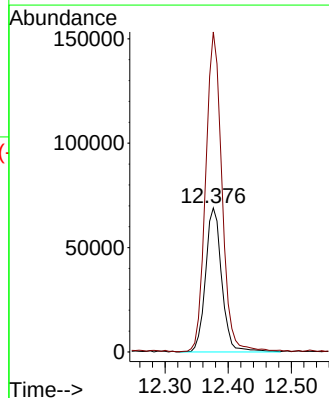
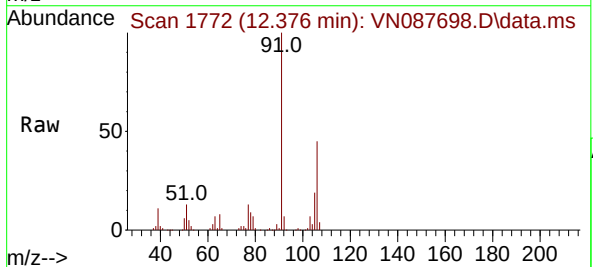
Instrument :
MSVOA_N
ClientSampleId :
RPXY1RDL

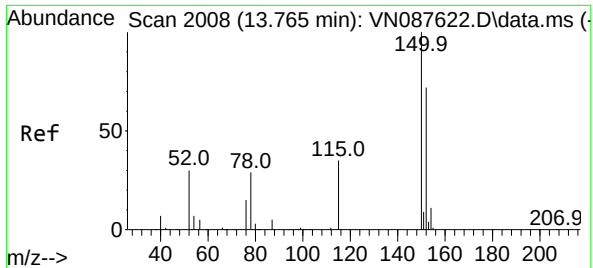
Tgt Ion:106 Resp: 493325
Ion Ratio Lower Upper
106 100
91 213.1 169.3 253.9



#69
o-Xylene
Concen: 25.437 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087698.D
Acq: 29 Aug 2025 14:18

Tgt Ion:106 Resp: 123419
Ion Ratio Lower Upper
106 100
91 222.6 111.4 334.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087698.D

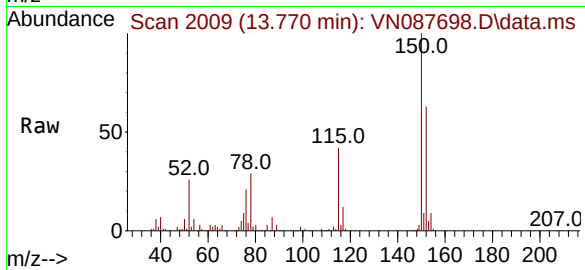
Acq: 29 Aug 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

RPXY1RDL



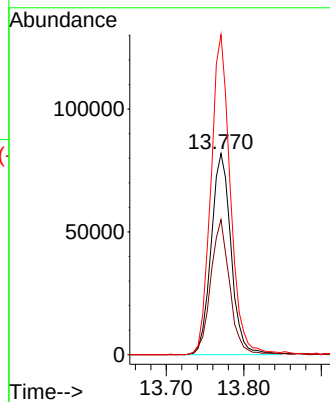
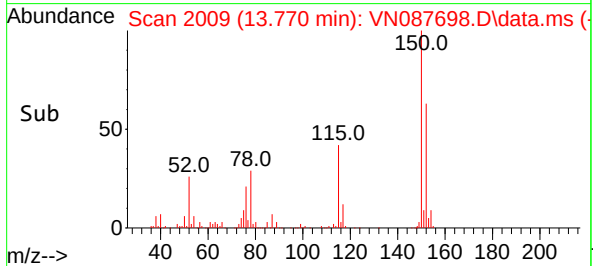
Tgt Ion:152 Resp: 145966

Ion Ratio Lower Upper

152 100

115 64.5 32.3 96.8

150 156.8 0.0 351.0





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG No.: Q2964
 Instrument ID: MSVOA_N Calibration Date(s): 08/21/2025 08/21/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:09 14:44
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN087619.D	RRF005 = VN087620.D	RRF020 = VN087621.D	RRF050 = VN087622.D	RRF100 = VN087623.D	RRF150 = VN087624.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.707	0.579	0.606	0.810	0.777	0.782	0.710	13.7
Chloromethane	0.739	0.637	0.710	0.795	0.752	0.747	0.730	7.3
Vinyl Chloride	0.909	0.739	0.832	0.903	0.847	0.846	0.846	7.3
Bromomethane		0.388	0.393	0.448	0.466	0.488	0.437	10.2
Chloroethane	0.727	0.528	0.599	0.603	0.558	0.554	0.595	11.9
Trichlorofluoromethane	1.323	1.139	1.242	1.274	1.227	1.233	1.240	4.9
1,1,2-Trichlorotrifluoroethane	0.879	0.648	0.677	0.695	0.654	0.656	0.701	12.6
1,1-Dichloroethene	0.892	0.649	0.730	0.700	0.667	0.687	0.721	12.3
Acetone	0.633	0.634	0.584	0.522	0.484	0.489	0.558	12.3
Carbon Disulfide	2.272	1.746	1.970	2.003	1.937	1.979	1.985	8.5
Methyl tert-butyl Ether	2.859	2.508	2.740	2.733	2.643	2.742	2.704	4.4
Methyl Acetate	1.450	1.043	1.097	1.157	1.117	1.141	1.168	12.3
Methylene Chloride	1.494	0.916	0.875	0.823	0.779	0.799	0.948	28.8
trans-1,2-Dichloroethene	0.952	0.734	0.768	0.750	0.737	0.745	0.781	10.8
1,1-Dichloroethane	1.798	1.500	1.549	1.501	1.454	1.471	1.546	8.3
Cyclohexane		1.490	1.310	1.234	1.201	1.207	1.289	9.4
2-Butanone	0.783	0.722	0.757	0.732	0.700	0.707	0.734	4.3
Carbon Tetrachloride	0.571	0.509	0.568	0.542	0.549	0.542	0.547	4.1
cis-1,2-Dichloroethene	0.997	0.916	0.937	0.941	0.908	0.905	0.934	3.7
Bromochloromethane	0.800	0.781	0.722	0.701	0.748	0.731	0.747	5
Chloroform	1.677	1.535	1.629	1.579	1.519	1.528	1.578	4
1,1,1-Trichloroethane	1.510	1.297	1.359	1.303	1.265	1.288	1.337	6.8
Methylcyclohexane	0.686	0.580	0.610	0.590	0.597	0.596	0.610	6.3
Benzene	1.853	1.637	1.727	1.684	1.639	1.652	1.699	4.9
1,2-Dichloroethane	0.714	0.627	0.675	0.650	0.624	0.626	0.653	5.5
Trichloroethene	0.435	0.387	0.390	0.377	0.367	0.370	0.388	6.5
1,2-Dichloropropane	0.544	0.435	0.447	0.433	0.415	0.412	0.448	11
Bromodichloromethane	0.686	0.649	0.667	0.638	0.638	0.639	0.653	3
4-Methyl-2-Pentanone	0.701	0.675	0.744	0.736	0.718	0.704	0.713	3.5
Toluene	1.148	0.987	1.062	1.050	1.037	1.033	1.053	5

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG No.: Q2964
 Instrument ID: MSVOA_N Calibration Date(s): 08/21/2025 08/21/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:09 14:44
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN087619.D		RRF005 = VN087620.D		RRF020 = VN087621.D			
		RRF050 = VN087622.D		RRF100 = VN087623.D		RRF150 = VN087624.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.620	0.628	0.691	0.703	0.699	0.715	0.676	6.1	
cis-1,3-Dichloropropene	0.717	0.640	0.712	0.718	0.714	0.710	0.702	4.3	
1,1,2-Trichloroethane	0.439	0.383	0.417	0.408	0.400	0.397	0.407	4.7	
2-Hexanone	0.295	0.390	0.493	0.510	0.508	0.507	0.451	19.8	
Dibromochloromethane	0.535	0.440	0.458	0.466	0.465	0.468	0.472	6.8	
1,2-Dibromoethane	0.412	0.433	0.444	0.432	0.429	0.427	0.430	2.4	
Tetrachloroethene	0.447	0.353	0.340	0.313	0.315	0.313	0.347	14.9	
Chlorobenzene	1.408	1.164	1.253	1.210	1.216	1.212	1.244	6.9	
Ethyl Benzene	2.232	1.993	2.224	2.144	2.152	2.178	2.154	4	
m/p-Xylenes	0.759	0.735	0.811	0.812	0.808	0.814	0.790	4.3	
o-Xylene	0.777	0.707	0.794	0.796	0.788	0.784	0.774	4.3	
Styrene	1.142	1.086	1.391	1.382	1.386	1.393	1.297	11	
Bromoform	0.303	0.285	0.320	0.320	0.336	0.336	0.317	6.3	
Isopropylbenzene	4.328	3.674	4.096	4.026	3.998	4.120	4.040	5.3	
1,1,2,2-Tetrachloroethane	1.488	1.381	1.421	1.363	1.322	1.371	1.391	4.1	
1,3-Dichlorobenzene	2.087	1.770	1.940	1.827	1.806	1.826	1.876	6.3	
1,4-Dichlorobenzene	2.348	1.884	1.956	1.867	1.818	1.841	1.952	10.2	
1,2-Dichlorobenzene	1.942	1.662	1.853	1.755	1.723	1.743	1.780	5.7	
1,2-Dibromo-3-Chloropropane	0.370	0.323	0.329	0.317	0.313	0.330	0.330	6.2	
1,2,4-Trichlorobenzene	1.192	0.995	1.081	1.026	1.040	1.079	1.069	6.4	
1,2,3-Trichlorobenzene	1.140	0.972	1.059	1.006	1.019	1.072	1.045	5.7	
1,2-Dichloroethane-d4		1.025	1.016	0.959	1.035	1.089	1.024	4.5	
Dibromofluoromethane		0.369	0.344	0.334	0.373	0.386	0.361	6	
Toluene-d8		1.384	1.266	1.223	1.408	1.475	1.351	7.7	
4-Bromofluorobenzene		0.446	0.454	0.450	0.514	0.540	0.481	9	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N082125W.M
 Title : SW846 8260
 Last Update : Fri Aug 22 02:55:42 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN087619.D 5 =VN087620.D 20 =VN087621.D 50 =VN087622.D 100 =VN087623.D 150 =VN087624.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.707	0.579	0.606	0.810	0.777	0.782	0.710	13.74
3) P	Chloromethane	0.739	0.637	0.710	0.795	0.752	0.747	0.730	7.27
4) C	Vinyl Chloride	0.909	0.739	0.832	0.903	0.847	0.846	0.846	7.29#
5) T	Bromomethane		0.388	0.393	0.448	0.466	0.488	0.437	10.17
6) T	Chloroethane	0.727	0.528	0.599	0.603	0.558	0.554	0.595	11.88
7) T	Trichlorofluor...	1.323	1.139	1.242	1.274	1.227	1.233	1.240	4.91
8) T	Diethyl Ether	0.637	0.501	0.544	0.529	0.510	0.519	0.540	9.22
9) T	1,1,2-Trichlor...	0.879	0.648	0.677	0.695	0.654	0.656	0.701	12.62
10) T	Methyl Iodide		0.265	0.355	0.481	0.562	0.586	0.450	30.46
11) T	Tert butyl alc...		0.170	0.187	0.184	0.174	0.174	0.178	4.02
12) CM	1,1-Dichloroet...	0.892	0.649	0.730	0.700	0.667	0.687	0.721	12.28#
13) T	Acrolein		0.251	0.198	0.215	0.196	0.233	0.219	10.78
14) T	Allyl chloride	1.577	1.184	1.254	1.240	1.208	1.376	1.306	11.34
15) T	Acrylonitrile	0.555	0.466	0.510	0.498	0.487	0.493	0.502	6.00
16) T	Acetone	0.633	0.634	0.584	0.522	0.484	0.489	0.558	12.34
17) T	Carbon Disulfide	2.272	1.746	1.970	2.003	1.937	1.979	1.985	8.51
18) T	Methyl Acetate	1.450	1.043	1.097	1.157	1.117	1.141	1.168	12.33
19) T	Methyl tert-bu...	2.859	2.508	2.740	2.733	2.643	2.742	2.704	4.37
20) T	Methylene Chlo...	1.494	0.916	0.875	0.823	0.779	0.799	0.948	28.76
21) T	trans-1,2-Dich...	0.952	0.734	0.768	0.750	0.737	0.745	0.781	10.83
22) T	Diisopropyl ether	2.977	2.591	2.903	2.870	2.766	2.807	2.819	4.74
23) T	Vinyl Acetate	2.629	2.379	2.484	2.692	2.576	2.629	2.565	4.46
24) P	1,1-Dichloroet...	1.798	1.500	1.549	1.501	1.454	1.471	1.546	8.28
25) T	2-Butanone	0.783	0.722	0.757	0.732	0.700	0.707	0.734	4.31
26) T	2,2-Dichloropr...	1.500	1.243	1.326	1.317	1.277	1.296	1.327	6.78
27) T	cis-1,2-Dichlo...	0.997	0.916	0.937	0.941	0.908	0.905	0.934	3.67
28) T	Bromochloromet...	0.800	0.781	0.722	0.701	0.748	0.731	0.747	4.95
29) T	Tetrahydrofuran	0.520	0.432	0.479	0.474	0.461	0.468	0.472	6.01
30) C	Chloroform	1.677	1.535	1.629	1.579	1.519	1.528	1.578	4.03#
31) T	Cyclohexane		1.490	1.310	1.234	1.201	1.207	1.289	9.38
32) T	1,1,1-Trichlor...	1.510	1.297	1.359	1.303	1.265	1.288	1.337	6.75
33) S	1,2-Dichloroet...		1.025	1.016	0.959	1.035	1.089	1.024	4.53
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.369	0.344	0.334	0.373	0.386	0.361	5.97
36) T	1,1-Dichloropr...	0.700	0.508	0.550	0.528	0.522	0.514	0.554	13.21
37) T	Ethyl Acetate	0.877	0.700	0.761	0.742	0.731	0.731	0.757	8.20
38) T	Carbon Tetrach...	0.571	0.509	0.568	0.542	0.549	0.542	0.547	4.12
39) T	Methylcyclohexane	0.686	0.580	0.610	0.590	0.597	0.596	0.610	6.33
40) TM	Benzene	1.853	1.637	1.727	1.684	1.639	1.652	1.699	4.88
41) T	Methacrylonitrile	0.466	0.346	0.388	0.389	0.384	0.379	0.392	10.06
42) TM	1,2-Dichloroet...	0.714	0.627	0.675	0.650	0.624	0.626	0.653	5.48
43) T	Isopropyl Acetate	1.236	1.076	1.215	1.198	1.187	1.178	1.182	4.71
44) TM	Trichloroethene	0.435	0.387	0.390	0.377	0.367	0.370	0.388	6.46
45) C	1,2-Dichloropr...	0.544	0.435	0.447	0.433	0.415	0.412	0.448	10.96#
46) T	Dibromomethane	0.351	0.294	0.327	0.318	0.310	0.312	0.319	6.06
47) T	Bromodichlorom...	0.686	0.649	0.667	0.638	0.638	0.639	0.653	3.01
48) T	Methyl methacr...	0.598	0.493	0.572	0.558	0.565	0.567	0.559	6.26
49) T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.008	0.007	0.007	11.46
50) S	Toluene-d8		1.384	1.266	1.223	1.408	1.475	1.351	7.68
51) T	4-Methyl-2-Pen...	0.701	0.675	0.744	0.736	0.718	0.704	0.713	3.55
52) CM	Toluene	1.148	0.987	1.062	1.050	1.037	1.033	1.053	5.03#
53) T	t-1,3-Dichloro...	0.620	0.628	0.691	0.703	0.699	0.715	0.676	6.08
54) T	cis-1,3-Dichlo...	0.717	0.640	0.712	0.718	0.714	0.710	0.702	4.32
55) T	1,1,2-Trichlor...	0.439	0.383	0.417	0.408	0.400	0.397	0.407	4.69
56) T	Ethyl methacry...	0.532	0.546	0.681	0.705	0.715	0.727	0.651	13.55

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\

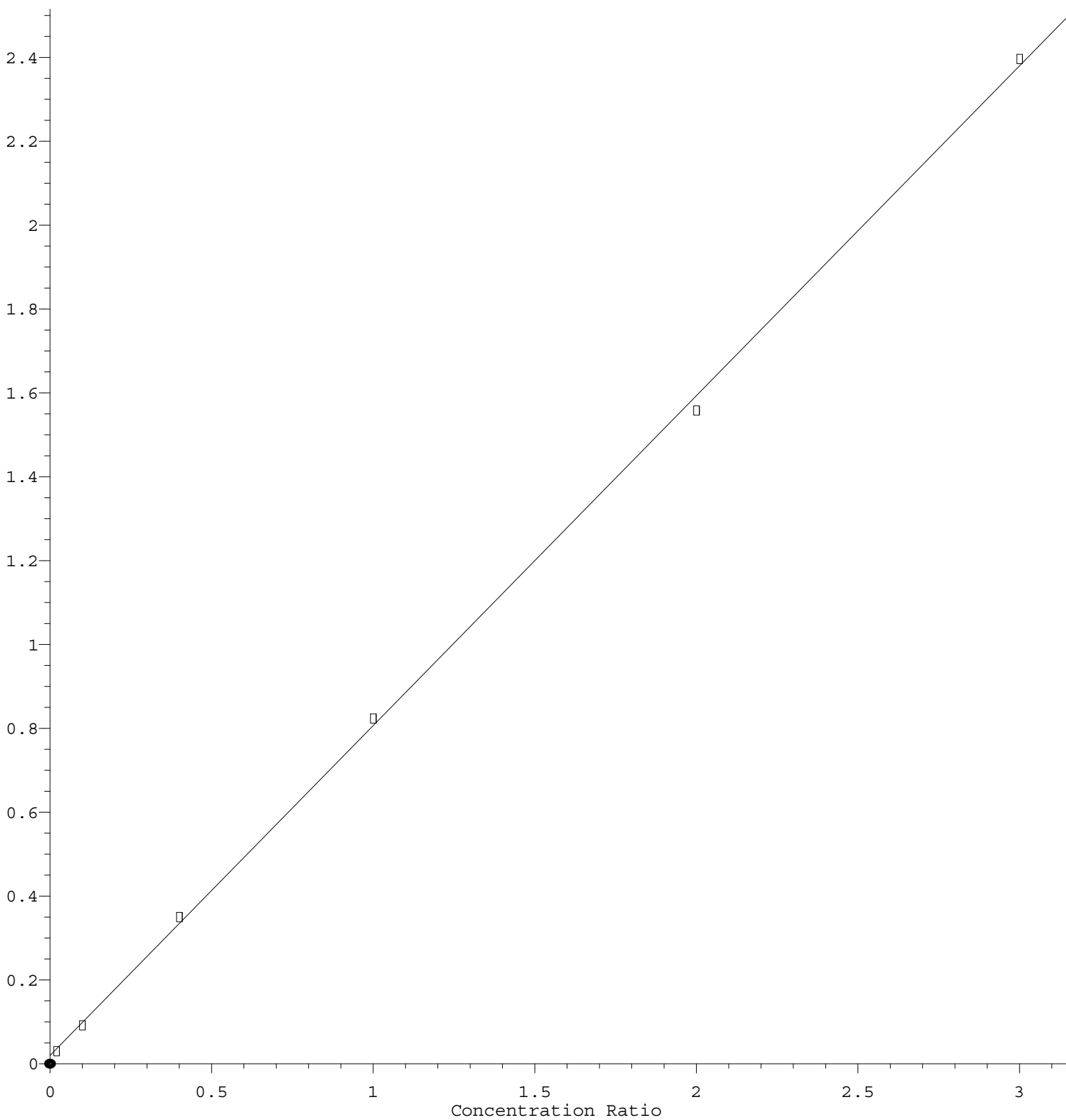
Method File : 82N082125W.M

57)	T	1,3-Dichloropr...	0.781	0.656	0.743	0.731	0.708	0.706	0.721	5.80
58)	T	2-Chloroethyl ...	0.360	0.333	0.305	0.354	0.374	0.388	0.352	8.40
59)	T	2-Hexanone	0.295	0.390	0.493	0.510	0.508	0.507	0.451	19.77
60)	T	Dibromochlorom...	0.535	0.440	0.458	0.466	0.465	0.468	0.472	6.85
61)	T	1,2-Dibromoethane	0.412	0.433	0.444	0.432	0.429	0.427	0.430	2.44
62)	S	4-Bromofluorob...	0.446	0.454	0.450	0.514	0.540	0.481		8.99
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.447	0.353	0.340	0.313	0.315	0.313	0.347	14.89
65)	PM	Chlorobenzene	1.408	1.164	1.253	1.210	1.216	1.212	1.244	6.85
66)	T	1,1,1,2-Tetrac...	0.391	0.404	0.427	0.421	0.416	0.418	0.413	3.14
67)	C	Ethyl Benzene	2.232	1.993	2.224	2.144	2.152	2.178	2.154	4.03#
68)	T	m/p-Xylenes	0.759	0.735	0.811	0.812	0.808	0.814	0.790	4.33
69)	T	o-Xylene	0.777	0.707	0.794	0.796	0.788	0.784	0.774	4.35
70)	T	Styrene	1.142	1.086	1.391	1.382	1.386	1.393	1.297	10.99
71)	P	Bromoform	0.303	0.285	0.320	0.320	0.336	0.336	0.317	6.27
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.328	3.674	4.096	4.026	3.998	4.120	4.040	5.29
74)	T	N-amyl acetate	1.569	1.538	1.265	1.555	1.527	1.733	1.531	9.86
75)	P	1,1,2,2-Tetrac...	1.488	1.381	1.421	1.363	1.322	1.371	1.391	4.12
76)	T	1,2,3-Trichlor...	1.274	1.171	1.188	1.073	1.074	1.256	1.173	7.36
77)	T	Bromobenzene	1.019	0.901	0.988	0.941	0.929	0.938	0.953	4.51
78)	T	n-propylbenzene	5.137	4.545	5.125	5.024	4.965	5.064	4.977	4.44
79)	T	2-Chlorotoluene	2.911	2.953	3.116	2.976	2.975	3.037	2.995	2.41
80)	T	1,3,5-Trimethy...	3.586	3.159	3.498	3.471	3.398	3.452	3.428	4.24
81)	T	trans-1,4-Dich...	0.332	0.416	0.451	0.493	0.523	0.443		16.70
82)	T	4-Chlorotoluene	3.352	3.001	3.225	3.153	3.069	3.093	3.149	3.98
83)	T	tert-Butylbenzene	2.913	2.674	2.899	2.911	2.857	2.884	2.856	3.22
84)	T	1,2,4-Trimethy...	3.502	3.091	3.551	3.496	3.471	3.476	3.431	4.93
85)	T	sec-Butylbenzene	4.464	4.019	4.367	4.225	4.163	4.194	4.239	3.71
86)	T	p-Isopropyltol...	3.656	3.249	3.550	3.530	3.502	3.512	3.500	3.85
87)	T	1,3-Dichlorobe...	2.087	1.770	1.940	1.827	1.806	1.826	1.876	6.29
88)	T	1,4-Dichlorobe...	2.348	1.884	1.956	1.867	1.818	1.841	1.952	10.22
89)	T	n-Butylbenzene	3.764	3.208	3.589	3.461	3.398	3.435	3.476	5.40
90)	T	Hexachloroethane	0.742	0.606	0.680	0.655	0.649	0.669	0.667	6.69
91)	T	1,2-Dichlorobe...	1.942	1.662	1.853	1.755	1.723	1.743	1.780	5.66
92)	T	1,2-Dibromo-3-...	0.370	0.323	0.329	0.317	0.313	0.330	0.330	6.21
93)	T	1,2,4-Trichlor...	1.192	0.995	1.081	1.026	1.040	1.079	1.069	6.43
94)	T	Hexachlorobuta...	0.469	0.371	0.385	0.355	0.346	0.361	0.381	11.80
95)	T	Naphthalene	3.989	3.240	3.724	3.754	3.917	4.089	3.786	7.95
96)	T	1,2,3-Trichlor...	1.140	0.972	1.059	1.006	1.019	1.072	1.045	5.68

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 7.866\text{e-}001 * \text{Amt} + 2.003\text{e-}002$$

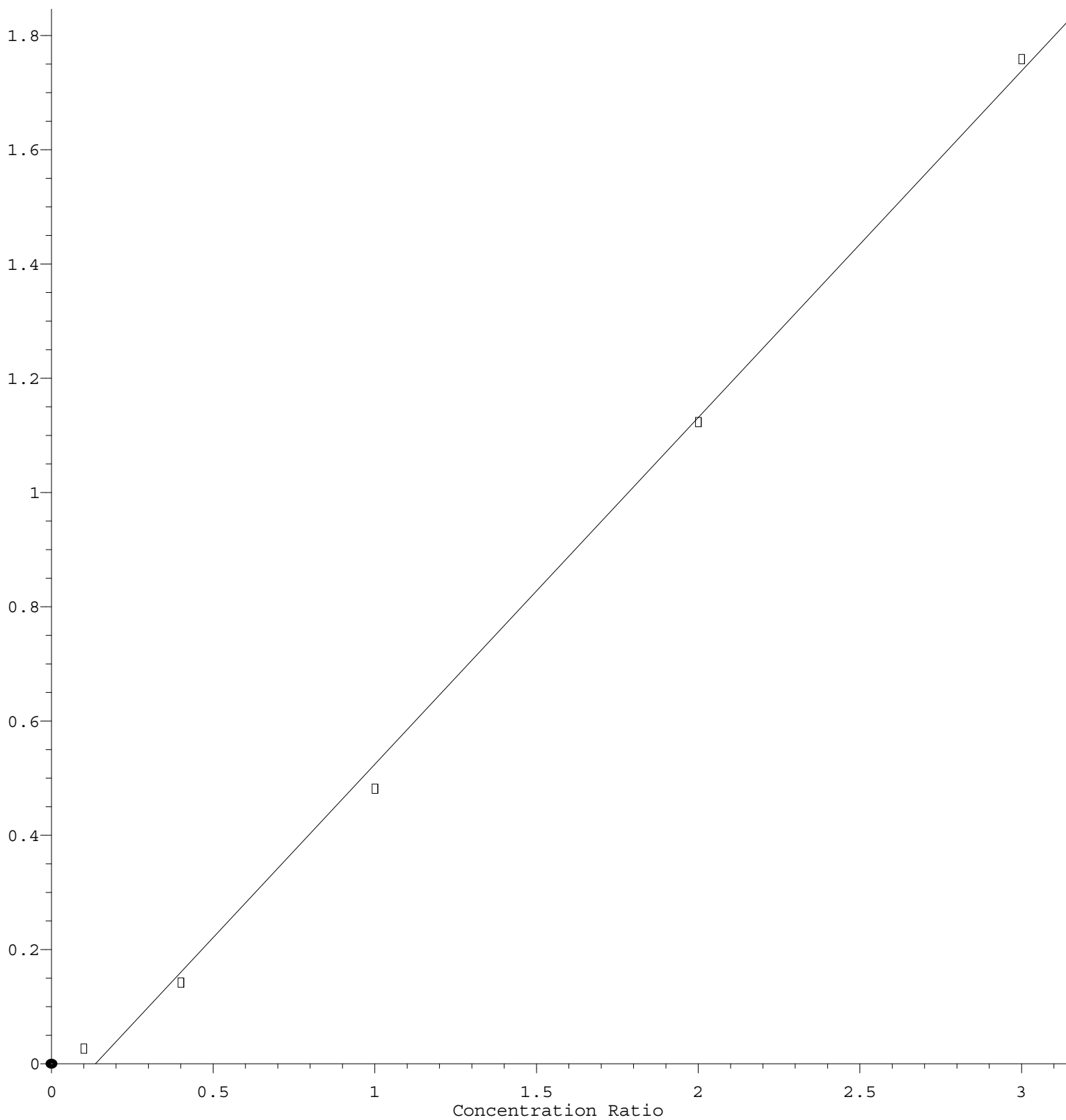
Coef of Det (r^2) = 0.999518 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N082125W.M

Calibration Table Last Updated: Fri Aug 22 02:55:42 2025

Methyl Iodide

Response Ratio



$$\text{Response} = 6.069\text{e-}001 * \text{Amt} - 8.267\text{e-}002$$

Coef of Det (r^2) = 0.997633 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N082125W.M

Calibration Table Last Updated: Fri Aug 22 02:55:42 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087619.D
 Acq On : 21 Aug 2025 12:09
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:28:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	214194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	425894	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	384310	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	174637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	3030	0.996	ug/l	75
3) Chloromethane	2.389	50	3165	1.012	ug/l #	87
4) Vinyl Chloride	2.542	62	3896	1.075	ug/l	98
6) Chloroethane	3.142	64	3113	1.222	ug/l	89
7) Trichlorofluoromethane	3.518	101	5667	1.067	ug/l	88
8) Diethyl Ether	3.977	74	2728m	1.179	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	3764	1.253	ug/l #	68
12) 1,1-Dichloroethene	4.353	96	3823	1.238	ug/l #	55
14) Allyl chloride	5.024	41	6754	1.207	ug/l #	70
15) Acrylonitrile	5.706	53	11893	5.535	ug/l #	90
16) Acetone	4.424	43	13568	5.679	ug/l #	75
17) Carbon Disulfide	4.700	76	9734	1.145	ug/l #	90
18) Methyl Acetate	5.012	43	6213m	1.242	ug/l	
19) Methyl tert-butyl Ether	5.794	73	12249	1.057	ug/l	91
20) Methylene Chloride	5.277	84	6402	0.627	ug/l #	57
21) trans-1,2-Dichloroethene	5.777	96	4079	1.219	ug/l	93
22) Diisopropyl ether	6.665	45	12751	1.056	ug/l #	76
23) Vinyl Acetate	6.588	43	56320	5.126	ug/l #	90
24) 1,1-Dichloroethane	6.541	63	7704	1.163	ug/l #	94
25) 2-Butanone	7.471	43	16779	5.338	ug/l	95
26) 2,2-Dichloropropane	7.477	77	6425	1.131	ug/l	77
27) cis-1,2-Dichloroethene	7.477	96	4272	1.068	ug/l	94
28) Bromochloromethane	7.794	49	3426	1.070	ug/l #	91
29) Tetrahydrofuran	7.830	42	11129	5.502	ug/l	98
30) Chloroform	7.953	83	7183	1.063	ug/l	97
32) 1,1,1-Trichloroethane	8.159	97	6468	1.129	ug/l #	52
36) 1,1-Dichloropropene	8.353	75	5965	1.264	ug/l	90
37) Ethyl Acetate	7.547	43	7468m	1.159	ug/l	
38) Carbon Tetrachloride	8.347	117	4866	1.045	ug/l	90
39) Methylcyclohexane	9.582	83	5843	1.125	ug/l #	87
40) Benzene	8.588	78	15783	1.091	ug/l	100
41) Methacrylonitrile	7.771	41	3967	1.188	ug/l #	71
42) 1,2-Dichloroethane	8.659	62	6078	1.093	ug/l	95
43) Isopropyl Acetate	8.677	43	10524	1.046	ug/l #	64
44) Trichloroethene	9.329	130	3709	1.123	ug/l	96
45) 1,2-Dichloropropane	9.594	63	4636	1.216	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087619.D
 Acq On : 21 Aug 2025 12:09
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:28:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.694	93	2989	1.101	ug/l	96
47) Bromodichloromethane	9.871	83	5845	1.051	ug/l #	90
48) Methyl methacrylate	9.671	41	5091	1.069	ug/l	94
49) 1,4-Dioxane	9.700	88	1008	16.337	ug/l #	13
51) 4-Methyl-2-Pentanone	10.423	43	29834	4.913	ug/l	99
52) Toluene	10.606	92	9776	1.090	ug/l	92
53) t-1,3-Dichloropropene	10.818	75	5278	0.917	ug/l #	80
54) cis-1,3-Dichloropropene	10.300	75	6105	1.021	ug/l #	80
55) 1,1,2-Trichloroethane	10.994	97	3739	1.078	ug/l #	87
56) Ethyl methacrylate	10.865	69	4529	0.817	ug/l #	89
57) 1,3-Dichloropropane	11.141	76	6652	1.083	ug/l	90
58) 2-Chloroethyl Vinyl ether	10.141	63	15333	5.109	ug/l	100
59) 2-Hexanone	11.200	43	12564	3.274	ug/l	94
60) Dibromochloromethane	11.347	129	4554	1.133	ug/l	93
61) 1,2-Dibromoethane	11.447	107	3511	0.960	ug/l	93
64) Tetrachloroethene	11.076	164	3433	1.288	ug/l #	84
65) Chlorobenzene	11.876	112	10823	1.132	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	3009	0.948	ug/l #	64
67) Ethyl Benzene	11.941	91	17159	1.037	ug/l	92
68) m/p-Xylenes	12.047	106	11663	1.921	ug/l	90
69) o-Xylene	12.376	106	5970	1.003	ug/l	100
70) Styrene	12.394	104	8781	0.881	ug/l	97
71) Bromoform	12.559	173	2328	0.956	ug/l #	84
73) Isopropylbenzene	12.676	105	15118	1.071	ug/l	92
74) N-amyl acetate	13.012	43	5481m	1.010	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	5198	1.070	ug/l	95
76) 1,2,3-Trichloropropane	12.970	75	4451m	1.084	ug/l	
77) Bromobenzene	12.970	156	3560	1.070	ug/l	96
78) n-propylbenzene	13.017	91	17943	1.032	ug/l	98
79) 2-Chlorotoluene	13.112	91	10167	0.972	ug/l	85
80) 1,3,5-Trimethylbenzene	13.147	105	12525	1.046	ug/l	92
82) 4-Chlorotoluene	13.200	91	11708	1.065	ug/l	96
83) tert-Butylbenzene	13.417	119	10175	1.020	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	12231	1.021	ug/l	99
85) sec-Butylbenzene	13.588	105	15591	1.053	ug/l	95
86) p-Isopropyltoluene	13.706	119	12768	1.044	ug/l	98
87) 1,3-Dichlorobenzene	13.717	146	7290	1.113	ug/l	89
88) 1,4-Dichlorobenzene	13.782	146	8201m	1.203	ug/l	
89) n-Butylbenzene	14.029	91	13148	1.083	ug/l	96
90) Hexachloroethane	14.311	117	2591	1.113	ug/l	100
91) 1,2-Dichlorobenzene	14.094	146	6783	1.091	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.694	75	1293	1.120	ug/l	83
93) 1,2,4-Trichlorobenzene	15.376	180	4163	1.115	ug/l	88
94) Hexachlorobutadiene	15.470	225	1637	1.230	ug/l	97
95) Naphthalene	15.617	128	13934	1.054	ug/l	98
96) 1,2,3-Trichlorobenzene	15.811	180	3983	1.091	ug/l	89

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

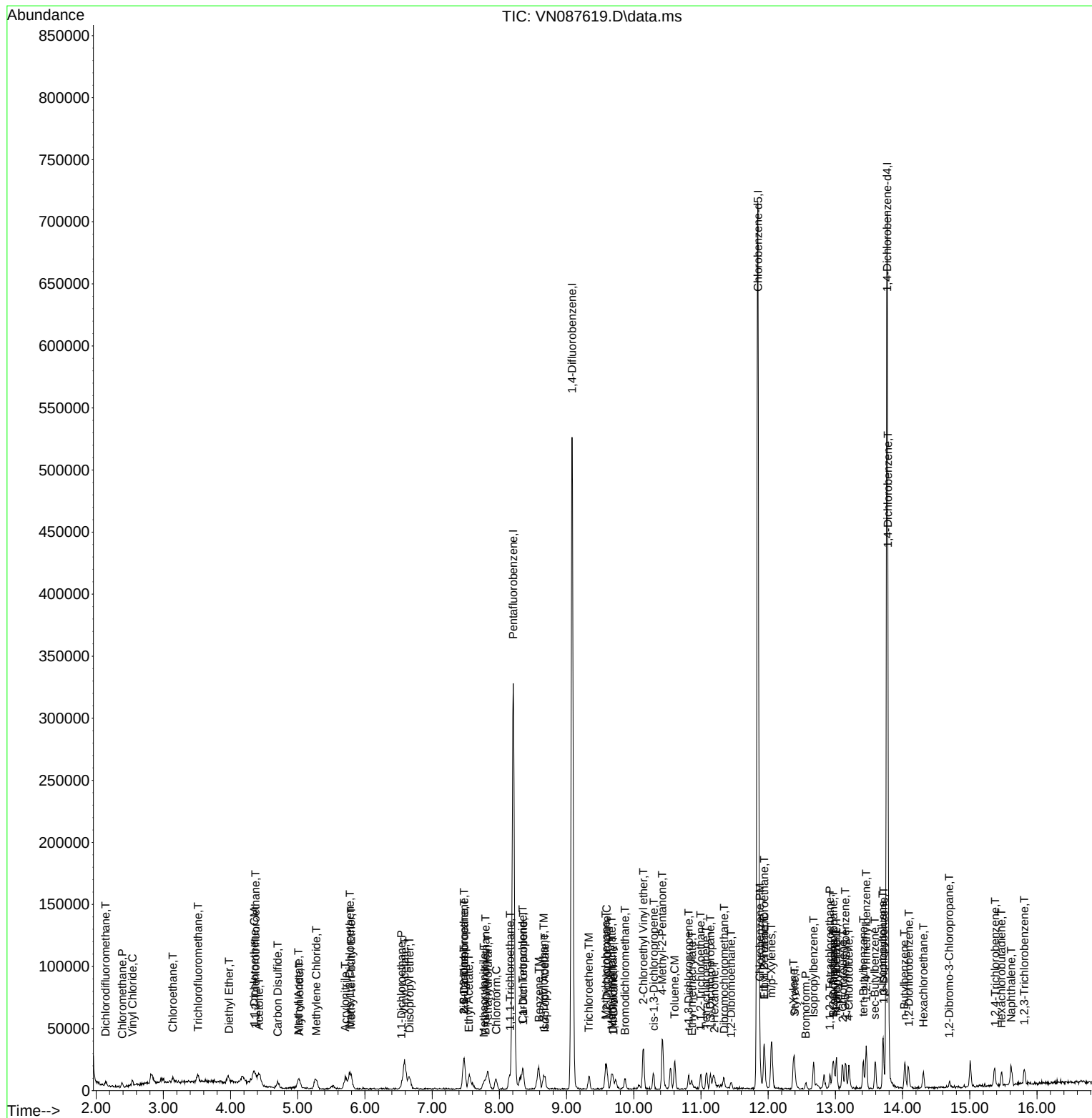
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087619.D  
Acq On    : 21 Aug 2025  12:09  
Operator  : JC\MD  
Sample    : VSTDICC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:28:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087620.D
 Acq On : 21 Aug 2025 13:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	230389	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	446380	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	411161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	194457	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	23607	5.001	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.000%	#	
35) Dibromofluoromethane	8.141	113	16452	5.105	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.200%	#	
50) Toluene-d8	10.547	98	61777	5.121	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.240%	#	
62) 4-Bromofluorobenzene	12.829	95	19896	4.638	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.280%	#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	13341	4.077	ug/l	91
3) Chloromethane	2.383	50	14670	4.363	ug/l #	87
4) Vinyl Chloride	2.542	62	17021	4.366	ug/l	96
5) Bromomethane	2.971	94	8950	4.449	ug/l #	67
6) Chloroethane	3.130	64	12160	4.437	ug/l	99
7) Trichlorofluoromethane	3.512	101	26231	4.592	ug/l #	69
8) Diethyl Ether	3.959	74	11532	4.635	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	14929	4.619	ug/l #	85
10) Methyl Iodide	4.583	142	6109	8.995	ug/l	90
11) Tert butyl alcohol	5.530	59	19630	23.954	ug/l #	71
12) 1,1-Dichloroethene	4.336	96	14950	4.501	ug/l	89
13) Acrolein	4.183	56	28918	28.704	ug/l	96
14) Allyl chloride	5.012	41	27277	4.532	ug/l	94
15) Acrylonitrile	5.706	53	53640	23.209	ug/l	99
16) Acetone	4.418	43	73025	28.418	ug/l	97
17) Carbon Disulfide	4.694	76	40223	4.399	ug/l #	94
18) Methyl Acetate	5.012	43	24038	4.468	ug/l #	61
19) Methyl tert-butyl Ether	5.783	73	57783	4.637	ug/l	98
20) Methylene Chloride	5.253	84	21101	4.549	ug/l #	80
21) trans-1,2-Dichloroethene	5.777	96	16922	4.701	ug/l	96
22) Diisopropyl ether	6.653	45	59705	4.596	ug/l	99
23) Vinyl Acetate	6.588	43	274045	23.189	ug/l	98
24) 1,1-Dichloroethane	6.565	63	34563	4.853	ug/l	98
25) 2-Butanone	7.477	43	83189	24.607	ug/l	93
26) 2,2-Dichloropropane	7.482	77	28641	4.685	ug/l	97
27) cis-1,2-Dichloroethene	7.465	96	21105	4.904	ug/l	95
28) Bromochloromethane	7.788	49	17986	5.224	ug/l #	98
29) Tetrahydrofuran	7.830	42	49801	22.890	ug/l	97
30) Chloroform	7.953	83	35366	4.865	ug/l	89
31) Cyclohexane	8.241	56	34337	5.783	ug/l #	96
32) 1,1,1-Trichloroethane	8.147	97	29878	4.850	ug/l	90
36) 1,1-Dichloropropene	8.353	75	22697	4.591	ug/l	96
37) Ethyl Acetate	7.547	43	31230m	4.622	ug/l	
38) Carbon Tetrachloride	8.341	117	22716	4.653	ug/l #	84
39) Methylcyclohexane	9.576	83	25902	4.758	ug/l	91
40) Benzene	8.582	78	73071	4.818	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087620.D
 Acq On : 21 Aug 2025 13:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M

Quant Title : SW846 8260

QLast Update : Fri Aug 22 02:09:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	15464	4.419	ug/l #	95
42) 1,2-Dichloroethane	8.653	62	27989	4.803	ug/l	95
43) Isopropyl Acetate	8.671	43	48032	4.554	ug/l	99
44) Trichloroethene	9.329	130	17267	4.987	ug/l	91
45) 1,2-Dichloropropane	9.606	63	19397	4.853	ug/l	95
46) Dibromomethane	9.694	93	13115	4.611	ug/l	91
47) Bromodichloromethane	9.865	83	28992	4.973	ug/l	99
48) Methyl methacrylate	9.659	41	22006	4.411	ug/l	94
49) 1,4-Dioxane	9.682	88	6079	94.002	ug/l #	89
51) 4-Methyl-2-Pentanone	10.423	43	150608	23.665	ug/l	97
52) Toluene	10.606	92	44071	4.688	ug/l	98
53) t-1,3-Dichloropropene	10.812	75	28043	4.647	ug/l	92
54) cis-1,3-Dichloropropene	10.288	75	28580	4.561	ug/l	95
55) 1,1,2-Trichloroethane	10.994	97	17105	4.703	ug/l	96
56) Ethyl methacrylate	10.853	69	24379	4.194	ug/l #	92
57) 1,3-Dichloropropane	11.141	76	29300	4.552	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.141	63	74236	23.598	ug/l	100
59) 2-Hexanone	11.182	43	87097	21.654	ug/l	98
60) Dibromochloromethane	11.335	129	19653	4.664	ug/l	100
61) 1,2-Dibromoethane	11.447	107	19347	5.045	ug/l	93
64) Tetrachloroethene	11.082	164	14530	5.094	ug/l #	82
65) Chlorobenzene	11.870	112	47879	4.681	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.935	131	16599	4.888	ug/l	88
67) Ethyl Benzene	11.941	91	81935	4.626	ug/l	98
68) m/p-Xylenes	12.053	106	60444	9.306	ug/l	96
69) o-Xylene	12.376	106	29064	4.566	ug/l	98
70) Styrene	12.388	104	44658	4.188	ug/l	93
71) Bromoform	12.559	173	11710	4.496	ug/l #	92
73) Isopropylbenzene	12.670	105	71448	4.547	ug/l	98
74) N-amyl acetate	12.670	43	29903m	4.946	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	26850	4.963	ug/l	95
76) 1,2,3-Trichloropropane	12.976	75	22762m	4.980	ug/l	
77) Bromobenzene	12.959	156	17527	4.731	ug/l	97
78) n-propylbenzene	13.012	91	88388	4.567	ug/l	99
79) 2-Chlorotoluene	13.100	91	57432	4.931	ug/l	94
80) 1,3,5-Trimethylbenzene	13.153	105	61434	4.609	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	6458	3.749	ug/l	87
82) 4-Chlorotoluene	13.200	91	58355	4.765	ug/l	96
83) tert-Butylbenzene	13.417	119	51989	4.680	ug/l	98
84) 1,2,4-Trimethylbenzene	13.464	105	60099	4.504	ug/l	98
85) sec-Butylbenzene	13.594	105	78154	4.741	ug/l	98
86) p-Isopropyltoluene	13.706	119	63187	4.642	ug/l	98
87) 1,3-Dichlorobenzene	13.711	146	34424	4.718	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	36629	4.824	ug/l	95
89) n-Butylbenzene	14.035	91	62374	4.614	ug/l	99
90) Hexachloroethane	14.306	117	11787	4.545	ug/l	98
91) 1,2-Dichlorobenzene	14.088	146	32320	4.669	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	6280	4.887	ug/l	86
93) 1,2,4-Trichlorobenzene	15.364	180	19345	4.654	ug/l	97
94) Hexachlorobutadiene	15.470	225	7207	4.864	ug/l	96
95) Naphthalene	15.611	128	63009	4.280	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	18896	4.650	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087620.D
Acq On : 21 Aug 2025 13:08
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

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

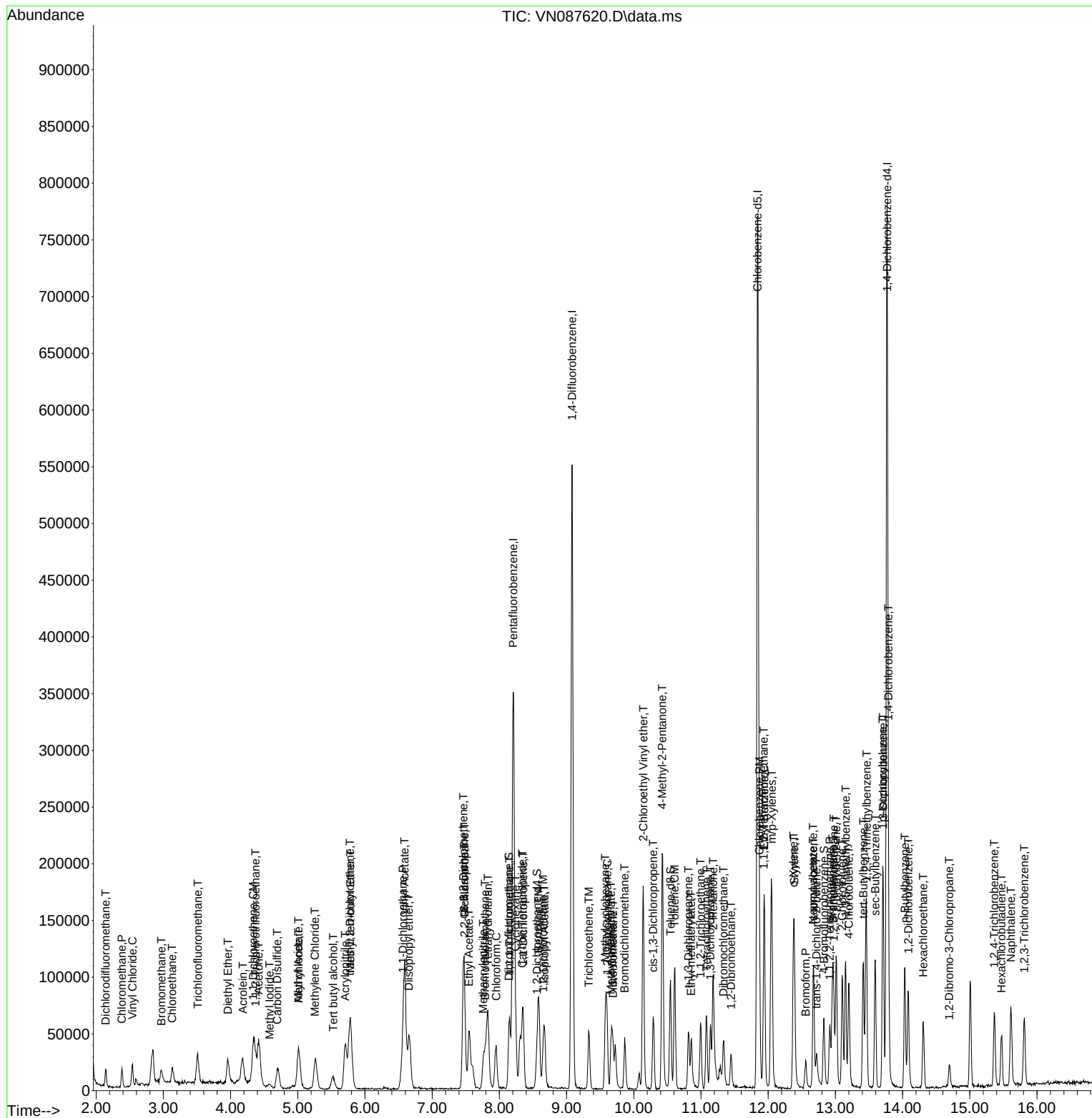
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087620.D  
Acq On    : 21 Aug 2025  13:08  
Operator  : JC\MD  
Sample    : VSTDIC005  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 8    Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:29:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087621.D
 Acq On : 21 Aug 2025 13:41
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:30:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	225514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	446006	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	409187	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	204594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	91607	19.826	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.660%#		
35) Dibromofluoromethane	8.153	113	61315	19.041	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.080%#		
50) Toluene-d8	10.547	98	225931	18.746	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	37.500%#		
62) 4-Bromofluorobenzene	12.829	95	80936	18.883	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	37.760%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	54651	17.063	ug/l	96
3) Chloromethane	2.383	50	64072	19.466	ug/l	95
4) Vinyl Chloride	2.536	62	75059	19.667	ug/l	99
5) Bromomethane	2.971	94	35415	17.984	ug/l	90
6) Chloroethane	3.136	64	54039	20.146	ug/l	98
7) Trichlorofluoromethane	3.506	101	112067	20.042	ug/l	92
8) Diethyl Ether	3.954	74	49068	20.150	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	61080	19.305	ug/l	96
10) Methyl Iodide	4.583	142	32047	18.518	ug/l #	97
11) Tert butyl alcohol	5.524	59	84156	104.914	ug/l	98
12) 1,1-Dichloroethene	4.336	96	65870	20.259	ug/l	93
13) Acrolein	4.171	56	89266	90.522	ug/l	99
14) Allyl chloride	5.012	41	113139	19.202	ug/l	96
15) Acrylonitrile	5.706	53	230008	101.673	ug/l	99
16) Acetone	4.418	43	263348	104.700	ug/l	97
17) Carbon Disulfide	4.701	76	177734	19.857	ug/l	100
18) Methyl Acetate	5.012	43	98949	18.789	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	247157	20.264	ug/l	99
20) Methylene Chloride	5.265	84	78920	20.972	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	69321	19.672	ug/l	95
22) Diisopropyl ether	6.653	45	261888	20.597	ug/l	97
23) Vinyl Acetate	6.589	43	1120284	96.845	ug/l	99
24) 1,1-Dichloroethane	6.553	63	139765	20.048	ug/l	99
25) 2-Butanone	7.465	43	341538	103.210	ug/l	99
26) 2,2-Dichloropropane	7.477	77	119616	19.991	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	84502	20.059	ug/l	97
28) Bromochloromethane	7.800	49	65173	19.338	ug/l	97
29) Tetrahydrofuran	7.830	42	215847	101.354	ug/l	98
30) Chloroform	7.947	83	146915	20.647	ug/l	99
31) Cyclohexane	8.241	56	118194	20.337	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	122634	20.336	ug/l	99
36) 1,1-Dichloropropene	8.353	75	98127	19.863	ug/l	98
37) Ethyl Acetate	7.547	43	135691	20.101	ug/l	97
38) Carbon Tetrachloride	8.341	117	101311	20.771	ug/l	92
39) Methylcyclohexane	9.577	83	108801	20.005	ug/l	97
40) Benzene	8.588	78	308160	20.338	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087621.D
 Acq On : 21 Aug 2025 13:41
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:30:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	69274	19.811	ug/l	98
42) 1,2-Dichloroethane	8.653	62	120495	20.694	ug/l	98
43) Isopropyl Acetate	8.671	43	216674	20.559	ug/l	99
44) Trichloroethene	9.336	130	69650	20.134	ug/l	92
45) 1,2-Dichloropropane	9.600	63	79779	19.975	ug/l	99
46) Dibromomethane	9.688	93	58410	20.551	ug/l	99
47) Bromodichloromethane	9.871	83	118959	20.423	ug/l	90
48) Methyl methacrylate	9.665	41	101988	20.458	ug/l	99
49) 1,4-Dioxane	9.688	88	29266	452.929	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	663566	104.353	ug/l	100
52) Toluene	10.612	92	189511	20.175	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	123317	20.453	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	127086	20.300	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	74360	20.463	ug/l	96
56) Ethyl methacrylate	10.859	69	121534	20.928	ug/l	97
57) 1,3-Dichloropropane	11.141	76	132575	20.615	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	272481	86.689	ug/l	100
59) 2-Hexanone	11.177	43	439624	109.392	ug/l	99
60) Dibromochloromethane	11.335	129	81730	19.411	ug/l	99
61) 1,2-Dibromoethane	11.447	107	79247	20.682	ug/l	97
64) Tetrachloroethene	11.082	164	55688	19.616	ug/l	97
65) Chlorobenzene	11.871	112	205088	20.146	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.935	131	69837	20.664	ug/l	99
67) Ethyl Benzene	11.941	91	364023	20.653	ug/l	98
68) m/p-Xylenes	12.053	106	265461	41.067	ug/l	99
69) o-Xylene	12.377	106	129958	20.515	ug/l	99
70) Styrene	12.388	104	227729	21.458	ug/l	100
71) Bromoform	12.559	173	52443	20.233	ug/l #	98
73) Isopropylbenzene	12.676	105	335219	20.276	ug/l	99
74) N-amyl acetate	12.547	43	103508m	16.273	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	116302	20.433	ug/l	99
76) 1,2,3-Trichloropropane	12.976	75	97260m	20.223	ug/l	
77) Bromobenzene	12.959	156	80835	20.737	ug/l	98
78) n-propylbenzene	13.012	91	419422	20.596	ug/l	99
79) 2-Chlorotoluene	13.106	91	255043	20.812	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	286272	20.412	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	34072	18.801	ug/l	88
82) 4-Chlorotoluene	13.200	91	263916	20.483	ug/l	99
83) tert-Butylbenzene	13.418	119	237268	20.302	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	290636	20.701	ug/l	99
85) sec-Butylbenzene	13.594	105	357394	20.607	ug/l	99
86) p-Isopropyltoluene	13.706	119	290561	20.288	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	158749	20.680	ug/l	97
88) 1,4-Dichlorobenzene	13.788	146	160067	20.037	ug/l	98
89) n-Butylbenzene	14.035	91	293738	20.652	ug/l	99
90) Hexachloroethane	14.312	117	55637	20.391	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	151644	20.823	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	26895	19.891	ug/l	96
93) 1,2,4-Trichlorobenzene	15.365	180	88494	20.236	ug/l	97
94) Hexachlorobutadiene	15.476	225	31498	20.203	ug/l	97
95) Naphthalene	15.612	128	304789	19.677	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	86694	20.278	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087621.D
Acq On : 21 Aug 2025 13:41
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:30:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087621.D
 Acq On : 21 Aug 2025 13:41
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/22/2025

Supervised By :Mahesh Dadoda 08/25/2025

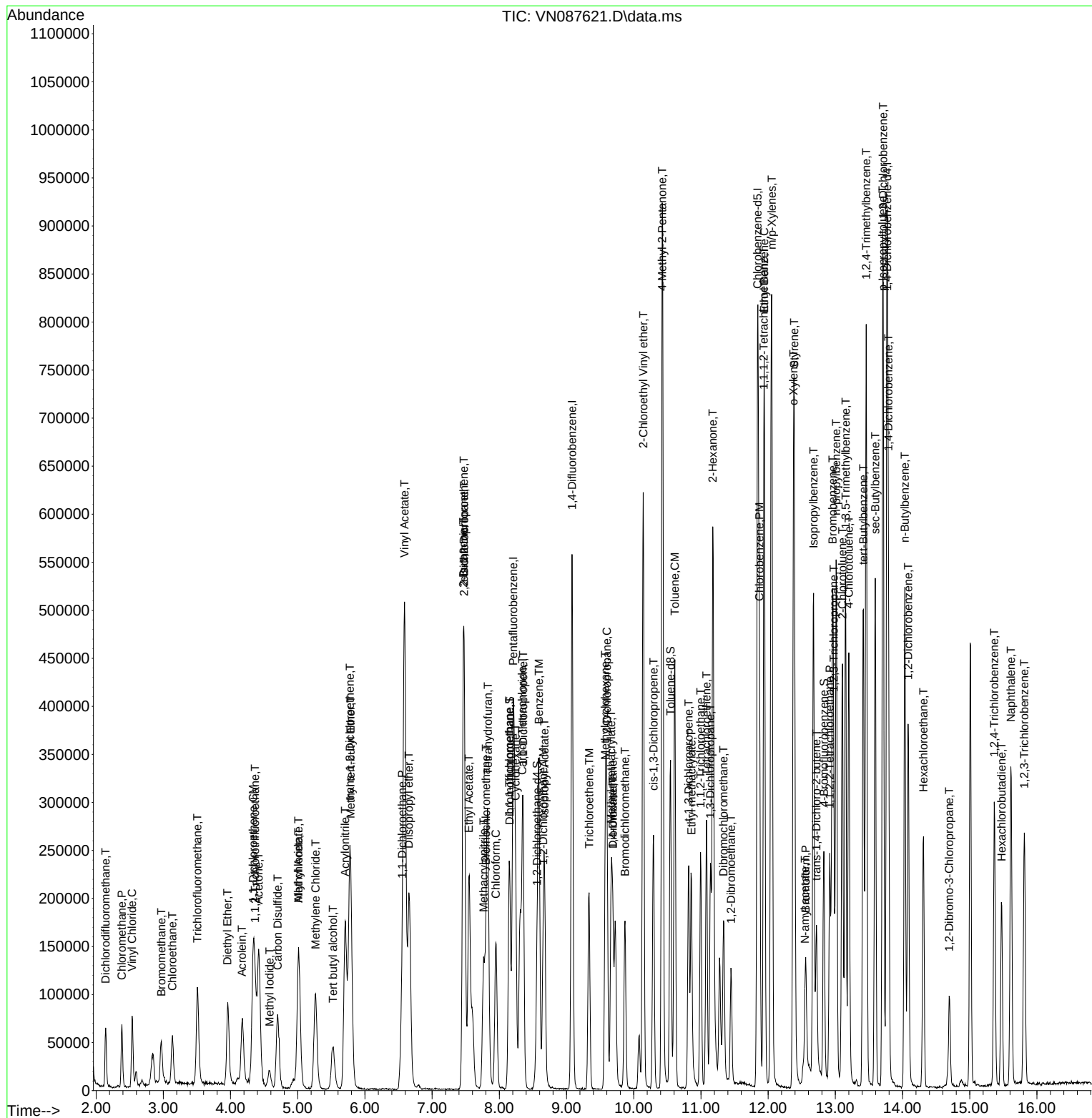
Quant Time: Aug 22 02:30:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M

Quant Title : SW846 8260

QLast Update : Fri Aug 22 02:09:28 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087622.D
 Acq On : 21 Aug 2025 14:02
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	234546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	468145	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	438262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	220862	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	224856	46.791	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.580%		
35) Dibromofluoromethane	8.153	113	156332	46.252	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.500%		
50) Toluene-d8	10.547	98	572648	45.266	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.540%		
62) 4-Bromofluorobenzene	12.823	95	210592	46.809	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.620%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	189901	57.007	ug/l	100
3) Chloromethane	2.383	50	186373	54.441	ug/l	100
4) Vinyl Chloride	2.542	62	211909	53.387	ug/l	100
5) Bromomethane	2.971	94	105105	51.318	ug/l	100
6) Chloroethane	3.136	64	141335	50.661	ug/l	100
7) Trichlorofluoromethane	3.512	101	298853	51.389	ug/l	100
8) Diethyl Ether	3.953	74	124074	48.989	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	162971	49.526	ug/l	100
10) Methyl Iodide	4.577	142	112901	46.467	ug/l	100
11) Tert butyl alcohol	5.518	59	216189	259.137	ug/l	100
12) 1,1-Dichloroethene	4.336	96	164165	48.547	ug/l	100
13) Acrolein	4.171	56	251949	245.655	ug/l	100
14) Allyl chloride	5.006	41	290757	47.448	ug/l	100
15) Acrylonitrile	5.706	53	584519	248.432	ug/l	100
16) Acetone	4.424	43	612147	234.001	ug/l	100
17) Carbon Disulfide	4.700	76	469891	50.475	ug/l	100
18) Methyl Acetate	5.012	43	271363	49.542	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	641051	50.534	ug/l	100
20) Methylene Chloride	5.265	84	193144	51.071	ug/l	100
21) trans-1,2-Dichloroethene	5.777	96	175989	48.020	ug/l	100
22) Diisopropyl ether	6.659	45	673069	50.897	ug/l	100
23) Vinyl Acetate	6.589	43	3156445	262.358	ug/l	100
24) 1,1-Dichloroethane	6.547	63	352088	48.560	ug/l	100
25) 2-Butanone	7.465	43	858584	249.467	ug/l	100
26) 2,2-Dichloropropane	7.477	77	308944	49.645	ug/l	100
27) cis-1,2-Dichloroethene	7.465	96	220668	50.366	ug/l	100
28) Bromochloromethane	7.800	49	164506	46.931	ug/l	100
29) Tetrahydrofuran	7.824	42	555506	250.802	ug/l	100
30) Chloroform	7.947	83	370301	50.036	ug/l	100
31) Cyclohexane	8.236	56	289400	47.878	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	305533	48.715	ug/l	100
36) 1,1-Dichloropropene	8.353	75	247135	47.660	ug/l	100
37) Ethyl Acetate	7.547	43	347439	49.034	ug/l	100
38) Carbon Tetrachloride	8.341	117	253643	49.543	ug/l	100
39) Methylcyclohexane	9.583	83	276006	48.348	ug/l	100
40) Benzene	8.588	78	788238	49.562	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087622.D
 Acq On : 21 Aug 2025 14:02
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	182028	49.594	ug/l	100
42) 1,2-Dichloroethane	8.653	62	304323	49.794	ug/l	100
43) Isopropyl Acetate	8.671	43	560899	50.703	ug/l	100
44) Trichloroethene	9.330	130	176493	48.607	ug/l	100
45) 1,2-Dichloropropane	9.600	63	202893	48.398	ug/l	100
46) Dibromomethane	9.688	93	148909	49.915	ug/l	100
47) Bromodichloromethane	9.871	83	298888	48.886	ug/l	100
48) Methyl methacrylate	9.665	41	261445	49.964	ug/l	100
49) 1,4-Dioxane	9.683	88	72780	1073.097	ug/l #	100
51) 4-Methyl-2-Pentanone	10.424	43	1722397	258.056	ug/l	100
52) Toluene	10.606	92	491725	49.872	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	329003	51.987	ug/l	100
54) cis-1,3-Dichloropropene	10.288	75	335961	51.127	ug/l	100
55) 1,1,2-Trichloroethane	10.994	97	190842	50.035	ug/l	100
56) Ethyl methacrylate	10.853	69	330271	54.182	ug/l	100
57) 1,3-Dichloropropane	11.141	76	342170	50.690	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	829191	251.329	ug/l	100
59) 2-Hexanone	11.177	43	1194193	283.100	ug/l	100
60) Dibromochloromethane	11.335	129	218275	49.389	ug/l	100
61) 1,2-Dibromoethane	11.447	107	202283	50.296	ug/l	100
64) Tetrachloroethene	11.082	164	137281	45.149	ug/l	100
65) Chlorobenzene	11.871	112	530421	48.648	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	184496	50.970	ug/l	100
67) Ethyl Benzene	11.941	91	939520	49.767	ug/l	100
68) m/p-Xylenes	12.047	106	711871	102.820	ug/l	100
69) o-Xylene	12.376	106	348655	51.386	ug/l	100
70) Styrene	12.388	104	605599	53.277	ug/l	100
71) Bromoform	12.559	173	140399	50.575	ug/l	100
73) Isopropylbenzene	12.671	105	889165	49.821	ug/l	100
74) N-amyl acetate	12.500	43	343435m	50.016	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	301018	48.990	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	236877m	45.626	ug/l	
77) Bromobenzene	12.959	156	207789	49.379	ug/l	100
78) n-propylbenzene	13.012	91	1109533	50.472	ug/l	100
79) 2-Chlorotoluene	13.100	91	657210	49.679	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	766722	50.642	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	99551	50.885	ug/l	100
82) 4-Chlorotoluene	13.200	91	696270	50.059	ug/l	100
83) tert-Butylbenzene	13.418	119	642869	50.955	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	772176	50.948	ug/l	100
85) sec-Butylbenzene	13.594	105	933105	49.838	ug/l	100
86) p-Isopropyltoluene	13.706	119	779657	50.430	ug/l	100
87) 1,3-Dichlorobenzene	13.712	146	403466	48.688	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	412346	47.815	ug/l	100
89) n-Butylbenzene	14.029	91	764482	49.789	ug/l	100
90) Hexachloroethane	14.312	117	144635	49.105	ug/l	100
91) 1,2-Dichlorobenzene	14.082	146	387612	49.303	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.700	75	70059	47.997	ug/l	100
93) 1,2,4-Trichlorobenzene	15.365	180	226580	47.995	ug/l	100
94) Hexachlorobutadiene	15.476	225	78424	46.597	ug/l	100
95) Naphthalene	15.612	128	829102	49.583	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	222211	48.148	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087622.D
Acq On : 21 Aug 2025 14:02
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

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

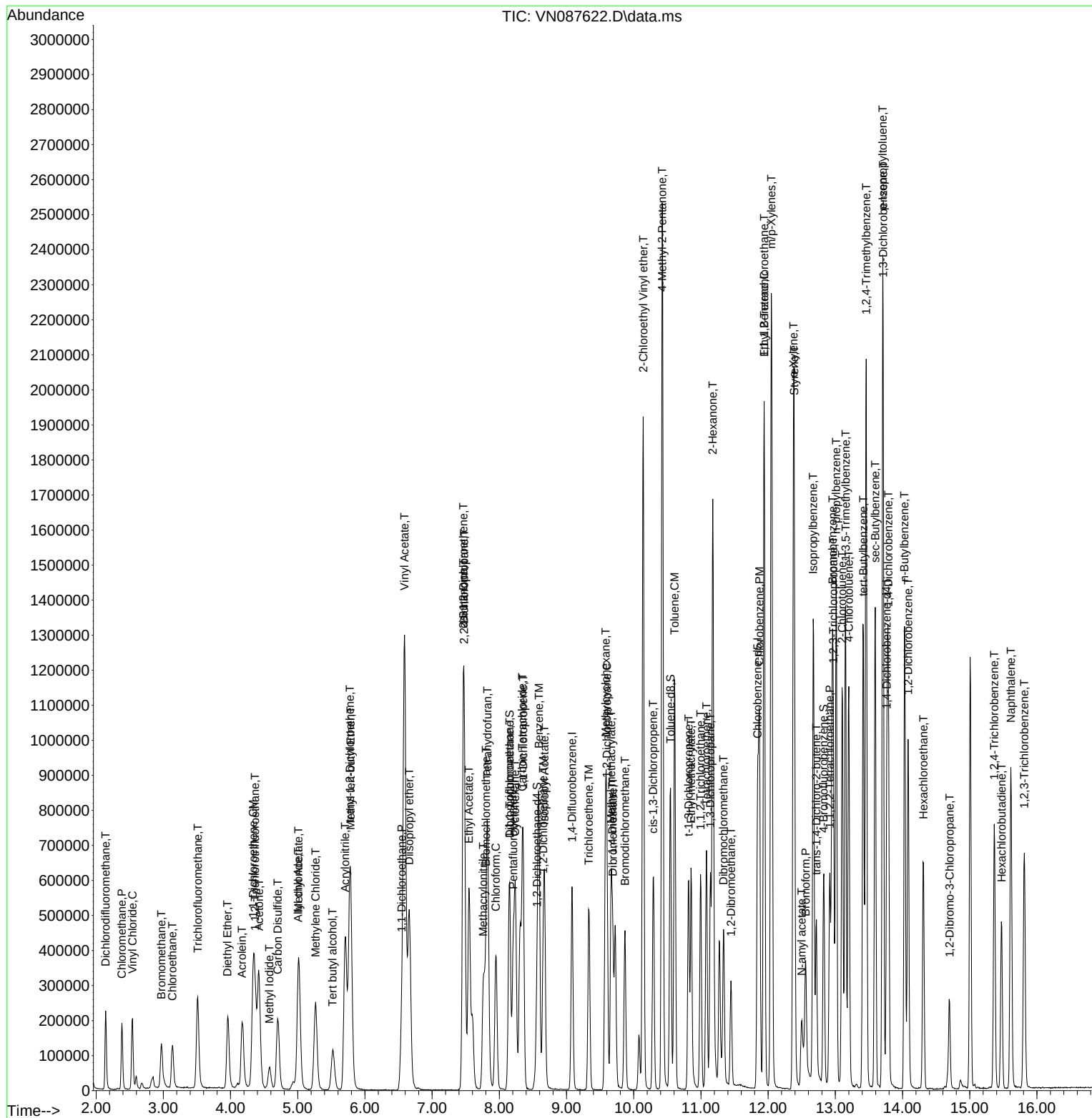
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087622.D  
Acq On    : 21 Aug 2025   14:02  
Operator  : JC\MD  
Sample    : VSTDICCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 10   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:32:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087623.D
 Acq On : 21 Aug 2025 14:23
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 22 02:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	247255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	481199	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	447994	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	226864	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	511669	101.001	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 202.000%#			
35) Dibromofluoromethane	8.147	113	358663	103.235	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 206.460%#			
50) Toluene-d8	10.547	98	1354664	104.177	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 208.360%#			
62) 4-Bromofluorobenzene	12.829	95	494494	106.930	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.860%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.142	85	384461	109.480	ug/l	97
3) Chloromethane	2.383	50	371688	102.992	ug/l	99
4) Vinyl Chloride	2.536	62	418975	100.128	ug/l	97
5) Bromomethane	2.959	94	230328	106.679	ug/l	97
6) Chloroethane	3.124	64	276071	93.871	ug/l	99
7) Trichlorofluoromethane	3.506	101	606894	98.995	ug/l	100
8) Diethyl Ether	3.959	74	252092	94.419	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	323480	93.250	ug/l	99
10) Methyl Iodide	4.577	142	277692	99.335	ug/l	96
11) Tert butyl alcohol	5.530	59	430345	489.322	ug/l	99
12) 1,1-Dichloroethene	4.330	96	329881	92.539	ug/l	95
13) Acrolein	4.171	56	484654	448.258	ug/l	100
14) Allyl chloride	5.012	41	597335	92.467	ug/l	99
15) Acrylonitrile	5.706	53	1204622	485.671	ug/l	99
16) Acetone	4.424	43	1195609	433.545	ug/l	99
17) Carbon Disulfide	4.700	76	957812	97.598	ug/l	98
18) Methyl Acetate	5.012	43	552409	95.669	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	1306892	97.726	ug/l	98
20) Methylene Chloride	5.259	84	385191	97.752	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	364392	94.317	ug/l	95
22) Diisopropyl ether	6.659	45	1368059	98.135	ug/l	98
23) Vinyl Acetate	6.588	43	6369332	502.195	ug/l	98
24) 1,1-Dichloroethane	6.553	63	719127	94.084	ug/l	98
25) 2-Butanone	7.471	43	1730205	476.881	ug/l	98
26) 2,2-Dichloropropane	7.471	77	631604	96.278	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	449130	97.241	ug/l	100
28) Bromochloromethane	7.794	49	369878	100.097	ug/l	99
29) Tetrahydrofuran	7.824	42	1140137	488.295	ug/l	100
30) Chloroform	7.947	83	751186	96.286	ug/l	97
31) Cyclohexane	8.235	56	593829	93.193	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	625473	94.602	ug/l	98
36) 1,1-Dichloropropene	8.353	75	502476	94.275	ug/l	99
37) Ethyl Acetate	7.547	43	703230	96.555	ug/l	99
38) Carbon Tetrachloride	8.341	117	528406	100.412	ug/l	93
39) Methylcyclohexane	9.582	83	574374	97.883	ug/l	98
40) Benzene	8.588	78	1577387	96.490	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087623.D
 Acq On : 21 Aug 2025 14:23
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	369145	97.845	ug/l	99
42) 1,2-Dichloroethane	8.653	62	600726	95.625	ug/l	99
43) Isopropyl Acetate	8.671	43	1142494	100.474	ug/l	99
44) Trichloroethene	9.329	130	353426	94.694	ug/l	99
45) 1,2-Dichloropropane	9.600	63	399209	92.644	ug/l	99
46) Dibromomethane	9.688	93	298076	97.207	ug/l	99
47) Bromodichloromethane	9.871	83	613683	97.651	ug/l	95
48) Methyl methacrylate	9.665	41	543991	101.141	ug/l	99
49) 1,4-Dioxane	9.682	88	148991	2137.188	ug/l #	99
51) 4-Methyl-2-Pentanone	10.423	43	3455510	503.673	ug/l	99
52) Toluene	10.612	92	998331	98.507	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	672690	103.410	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	686982	101.709	ug/l	98
55) 1,1,2-Trichloroethane	10.994	97	385129	98.234	ug/l	96
56) Ethyl methacrylate	10.853	69	688119	109.827	ug/l	99
57) 1,3-Dichloropropane	11.141	76	681646	98.241	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	1799387	530.602	ug/l	99
59) 2-Hexanone	11.176	43	2445031	563.903	ug/l	100
60) Dibromochloromethane	11.335	129	447781	98.572	ug/l	100
61) 1,2-Dibromoethane	11.447	107	412721	99.836	ug/l	98
64) Tetrachloroethene	11.082	164	282055	90.747	ug/l	95
65) Chlorobenzene	11.870	112	1089532	97.756	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.935	131	373160	100.851	ug/l	99
67) Ethyl Benzene	11.941	91	1928084	99.914	ug/l	99
68) m/p-Xylenes	12.047	106	1448543	204.677	ug/l	100
69) o-Xylene	12.376	106	705872	101.775	ug/l	99
70) Styrene	12.388	104	1242271	106.913	ug/l	99
71) Bromoform	12.559	173	300919	106.042	ug/l #	98
73) Isopropylbenzene	12.670	105	1813905	98.947	ug/l	99
74) N-amyl acetate	12.488	43	692783	98.225	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.917	83	599955	95.058	ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	487205m	91.360	ug/l	
77) Bromobenzene	12.959	156	421382	97.488	ug/l	100
78) n-propylbenzene	13.011	91	2252725	99.764	ug/l	100
79) 2-Chlorotoluene	13.100	91	1350026	99.349	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	1541753	99.138	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.717	75	223478	111.207	ug/l	85
82) 4-Chlorotoluene	13.200	91	1392464	97.464	ug/l	98
83) tert-Butylbenzene	13.417	119	1296218	100.022	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	1574771	101.155	ug/l	100
85) sec-Butylbenzene	13.594	105	1888785	98.213	ug/l	100
86) p-Isopropyltoluene	13.706	119	1589055	100.064	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	819384	96.262	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	824944	93.128	ug/l	99
89) n-Butylbenzene	14.029	91	1541853	97.761	ug/l	99
90) Hexachloroethane	14.306	117	294494	97.338	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	781928	96.828	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	142185	94.833	ug/l	96
93) 1,2,4-Trichlorobenzene	15.364	180	471693	97.272	ug/l	99
94) Hexachlorobutadiene	15.476	225	157139	90.896	ug/l	99
95) Naphthalene	15.611	128	1777069	103.462	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	462335	97.526	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087623.D
Acq On : 21 Aug 2025 14:23
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:33:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

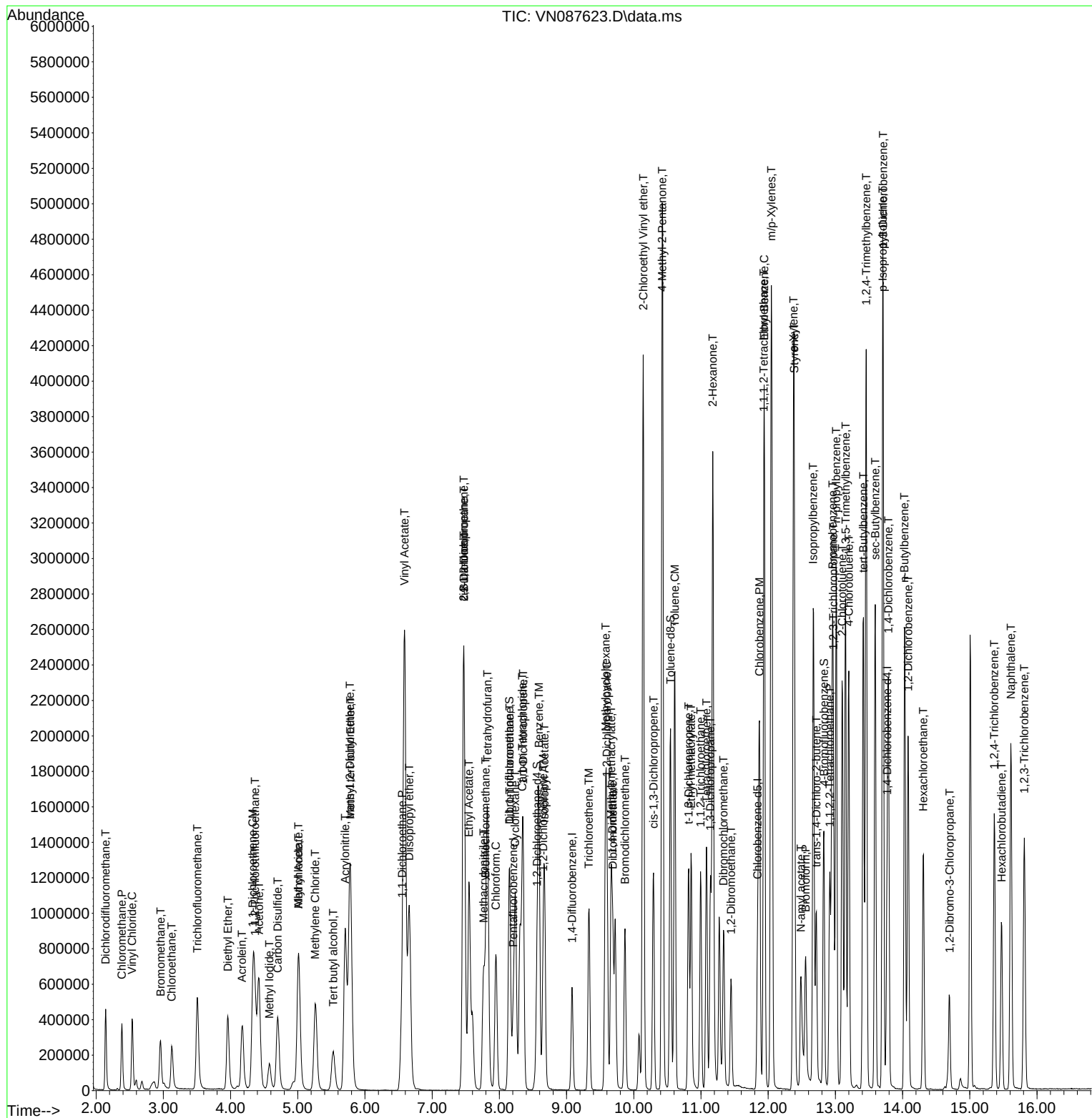
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087624.D
 Acq On : 21 Aug 2025 14:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Aug 22 02:36:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	245979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	485482	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	448278	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	220585	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	803343	159.399	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 318.800%#	
35) Dibromofluoromethane	8.147	113	562370	160.440	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 320.880%#	
50) Toluene-d8	10.547	98	2147647	163.702	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 327.400%#	
62) 4-Bromofluorobenzene	12.823	95	785776	168.419	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 336.840%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	576704	165.075	ug/l	97
3) Chloromethane	2.383	50	550985	153.466	ug/l	98
4) Vinyl Chloride	2.536	62	624259	149.961	ug/l	96
5) Bromomethane	2.942	94	360172	167.683	ug/l	96
6) Chloroethane	3.124	64	408766	139.711	ug/l	99
7) Trichlorofluoromethane	3.506	101	909991	149.205	ug/l	94
8) Diethyl Ether	3.959	74	383278	144.299	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	484239	140.317	ug/l	98
10) Methyl Iodide	4.577	142	432564	151.685	ug/l	97
11) Tert butyl alcohol	5.530	59	641433	733.123	ug/l	98
12) 1,1-Dichloroethene	4.336	96	506728	142.886	ug/l	97
13) Acrolein	4.171	56	861137	800.600	ug/l	99
14) Allyl chloride	5.012	41	1015124	157.956	ug/l	93
15) Acrylonitrile	5.706	53	1818844	737.113	ug/l	99
16) Acetone	4.424	43	1805178	657.978	ug/l	98
17) Carbon Disulfide	4.700	76	1460081	149.550	ug/l	100
18) Methyl Acetate	5.012	43	842183	146.610	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	2023752	152.117	ug/l	97
20) Methylene Chloride	5.259	84	589373	151.029	ug/l	99
21) trans-1,2-Dichloroethene	5.771	96	549970	143.089	ug/l	98
22) Diisopropyl ether	6.659	45	2071435	149.361	ug/l	99
23) Vinyl Acetate	6.589	43	9699326	768.719	ug/l	100
24) 1,1-Dichloroethane	6.553	63	1085255	142.721	ug/l	98
25) 2-Butanone	7.471	43	2610414	723.217	ug/l	99
26) 2,2-Dichloropropane	7.471	77	956513	146.562	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	667748	145.324	ug/l	98
28) Bromochloromethane	7.794	49	539576	146.779	ug/l	99
29) Tetrahydrofuran	7.824	42	1725889	742.994	ug/l	100
30) Chloroform	7.947	83	1127250	145.239	ug/l	98
31) Cyclohexane	8.241	56	890974	140.551	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	950731	144.543	ug/l	97
36) 1,1-Dichloropropene	8.353	75	748756	139.242	ug/l	99
37) Ethyl Acetate	7.547	43	1064446	144.861	ug/l	98
38) Carbon Tetrachloride	8.341	117	789246	148.656	ug/l	98
39) Methylcyclohexane	9.583	83	867837	146.589	ug/l	98
40) Benzene	8.588	78	2405823	145.868	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087624.D
 Acq On : 21 Aug 2025 14:44
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/22/2025
 Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:36:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:09:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	552329	145.108	ug/l	97
42) 1,2-Dichloroethane	8.653	62	912127	143.914	ug/l	99
43) Isopropyl Acetate	8.671	43	1715458	149.531	ug/l	98
44) Trichloroethene	9.335	130	538839	143.098	ug/l	99
45) 1,2-Dichloropropane	9.600	63	600437	138.113	ug/l	100
46) Dibromomethane	9.688	93	454128	146.791	ug/l	99
47) Bromodichloromethane	9.865	83	931257	146.876	ug/l	96
48) Methyl methacrylate	9.665	41	826047	152.226	ug/l	99
49) 1,4-Dioxane	9.683	88	204489	2907.396	ug/l #	99
51) 4-Methyl-2-Pentanone	10.424	43	5127143	740.736	ug/l	99
52) Toluene	10.612	92	1505069	147.197	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	1040899	158.602	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	1034308	151.780	ug/l	99
55) 1,1,2-Trichloroethane	10.994	97	578828	146.338	ug/l	97
56) Ethyl methacrylate	10.853	69	1058252	167.411	ug/l	99
57) 1,3-Dichloropropane	11.141	76	1028391	146.908	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	2825105	825.716	ug/l	99
59) 2-Hexanone	11.177	43	3690702	843.686	ug/l	100
60) Dibromochloromethane	11.335	129	680951	148.578	ug/l	100
61) 1,2-Dibromoethane	11.447	107	621238	148.950	ug/l	98
64) Tetrachloroethene	11.082	164	421013	135.369	ug/l	96
65) Chlorobenzene	11.871	112	1629434	146.105	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	562761	151.997	ug/l	99
67) Ethyl Benzene	11.941	91	2928525	151.661	ug/l	98
68) m/p-Xylenes	12.047	106	2189611	309.193	ug/l	99
69) o-Xylene	12.376	106	1053696	151.829	ug/l	99
70) Styrene	12.388	104	1873074	161.099	ug/l	99
71) Bromoform	12.559	173	451851	159.129	ug/l #	98
73) Isopropylbenzene	12.671	105	2726116	152.940	ug/l	100
74) N-amyl acetate	12.482	43	1146975	167.250	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.918	83	907151	147.822	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	830843m	160.233	ug/l	
77) Bromobenzene	12.959	156	620711	147.691	ug/l	98
78) n-propylbenzene	13.012	91	3351021	152.627	ug/l	100
79) 2-Chlorotoluene	13.100	91	2010067	152.133	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	2284564	151.084	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.712	75	345953	177.054	ug/l	84
82) 4-Chlorotoluene	13.200	91	2047130	147.365	ug/l	98
83) tert-Butylbenzene	13.418	119	1908253	151.441	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	2300224	151.960	ug/l	100
85) sec-Butylbenzene	13.594	105	2775113	148.408	ug/l	100
86) p-Isopropyltoluene	13.706	119	2324153	150.520	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	1208472	146.014	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	1218359	141.456	ug/l	99
89) n-Butylbenzene	14.035	91	2273344	148.244	ug/l	99
90) Hexachloroethane	14.312	117	442763	150.511	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	1153653	146.927	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	218577	149.934	ug/l	97
93) 1,2,4-Trichlorobenzene	15.365	180	714001	151.432	ug/l	99
94) Hexachlorobutadiene	15.476	225	238563	141.923	ug/l	99
95) Naphthalene	15.612	128	2705715	162.013	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	709644	153.956	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087624.D
Acq On : 21 Aug 2025 14:44
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:36:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration

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

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

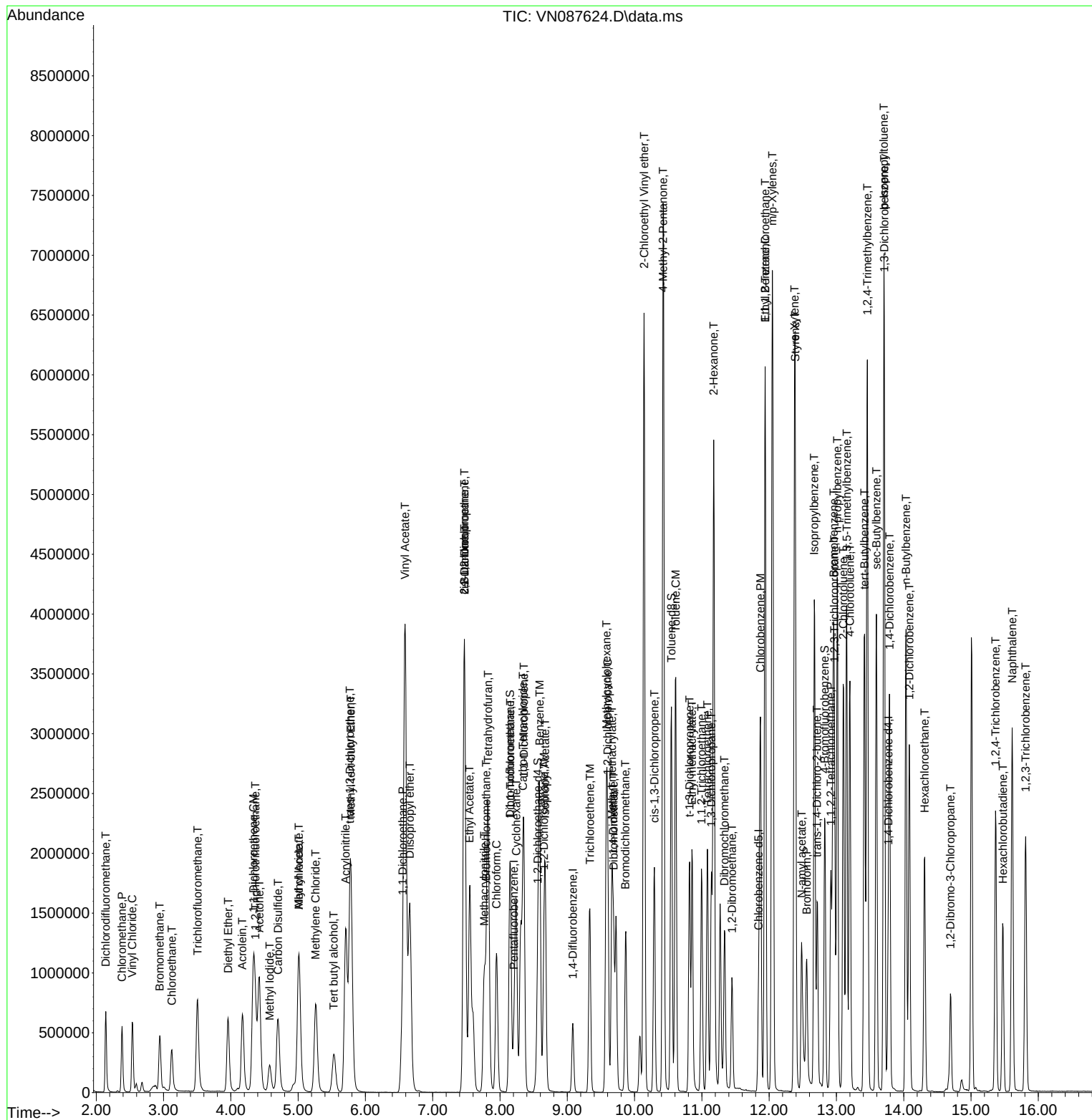
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087624.D  
Acq On    : 21 Aug 2025   14:44  
Operator  : JC\MD  
Sample    : VSTDICC150  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 12   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:36:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:09:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	236538	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	462145	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	426678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	215492	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	211874	43.718	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.440%		
35) Dibromofluoromethane	8.153	113	144206	43.218	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	86.440%		
50) Toluene-d8	10.547	98	538430	43.114	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	86.220%		
62) 4-Bromofluorobenzene	12.829	95	197985	44.578	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	89.160%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	166005	49.414	ug/l	98
3) Chloromethane	2.383	50	164410	47.621	ug/l	99
4) Vinyl Chloride	2.536	62	181981	45.461	ug/l	97
5) Bromomethane	2.971	94	104036	50.369	ug/l	90
6) Chloroethane	3.136	64	119563	42.496	ug/l	99
7) Trichlorofluoromethane	3.512	101	258055	44.000	ug/l	99
8) Diethyl Ether	3.959	74	106479	41.688	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	138202	41.645	ug/l	99
10) Methyl Iodide	4.577	142	101477	42.154	ug/l	96
11) Tert butyl alcohol	5.518	59	188337	223.850	ug/l	99
12) 1,1-Dichloroethene	4.342	96	143630	42.117	ug/l	94
13) Acrolein	4.177	56	214366	207.251	ug/l	99
14) Allyl chloride	5.012	41	251818	40.748	ug/l	98
15) Acrylonitrile	5.712	53	512416	215.953	ug/l	98
16) Acetone	4.424	43	534765	202.699	ug/l	100
17) Carbon Disulfide	4.700	76	403340	42.961	ug/l	99
18) Methyl Acetate	5.012	43	239686	43.391	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	554938	43.377	ug/l	95
20) Methylene Chloride	5.259	84	171230	44.741	ug/l	99
21) trans-1,2-Dichloroethene	5.771	96	155031	41.945	ug/l	95
22) Diisopropyl ether	6.659	45	570242	42.758	ug/l	98
23) Vinyl Acetate	6.588	43	2684129	221.221	ug/l	100
24) 1,1-Dichloroethane	6.553	63	308870	42.240	ug/l	97
25) 2-Butanone	7.471	43	748996	215.792	ug/l	98
26) 2,2-Dichloropropane	7.471	77	266418	42.451	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	187583	42.454	ug/l	98
28) Bromochloromethane	7.794	49	162438	45.951	ug/l	98
29) Tetrahydrofuran	7.824	42	468943	209.937	ug/l	99
30) Chloroform	7.947	83	321565	43.085	ug/l	99
31) Cyclohexane	8.241	56	255575	41.926	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	268667	42.477	ug/l	98
36) 1,1-Dichloropropene	8.353	75	213398	41.688	ug/l	99
37) Ethyl Acetate	7.547	43	286649	40.980	ug/l	97
38) Carbon Tetrachloride	8.341	117	220428	43.614	ug/l	96
39) Methylcyclohexane	9.582	83	234965	41.693	ug/l	99
40) Benzene	8.588	78	677138	43.129	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	154175	42.550	ug/l	97
42) 1,2-Dichloroethane	8.653	62	260576	43.189	ug/l	98
43) Isopropyl Acetate	8.671	43	475910	43.578	ug/l	98
44) Trichloroethene	9.329	130	150412	41.962	ug/l	98
45) 1,2-Dichloropropane	9.600	63	170592	41.221	ug/l	97
46) Dibromomethane	9.688	93	127636	43.340	ug/l	99
47) Bromodichloromethane	9.871	83	260671	43.189	ug/l	95
48) Methyl methacrylate	9.665	41	224953	43.548	ug/l	99
49) 1,4-Dioxane	9.682	88	62435	932.518	ug/l #	98
51) 4-Methyl-2-Pentanone	10.423	43	1463763	222.154	ug/l	100
52) Toluene	10.612	92	421282	43.282	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	278049	44.506	ug/l	95
54) cis-1,3-Dichloropropene	10.294	75	284560	43.867	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	165061	43.838	ug/l	99
56) Ethyl methacrylate	10.853	69	283473	47.109	ug/l	98
57) 1,3-Dichloropropane	11.141	76	287664	43.169	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	842734	258.751	ug/l	100
59) 2-Hexanone	11.176	43	1001252	240.442	ug/l	100
60) Dibromochloromethane	11.335	129	187315	42.934	ug/l	98
61) 1,2-Dibromoethane	11.447	107	173643	43.736	ug/l	99
64) Tetrachloroethene	11.082	164	117611	39.730	ug/l	94
65) Chlorobenzene	11.870	112	449967	42.389	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	156161	44.313	ug/l	100
67) Ethyl Benzene	11.941	91	803704	43.729	ug/l	100
68) m/p-Xylenes	12.047	106	605035	89.762	ug/l	100
69) o-Xylene	12.376	106	289138	43.771	ug/l	96
70) Styrene	12.388	104	506439	45.763	ug/l	99
71) Bromoform	12.559	173	121336	44.894	ug/l #	98
73) Isopropylbenzene	12.670	105	761746	43.745	ug/l	98
74) N-amyl acetate	12.500	43	294763m	44.668	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	264712	44.155	ug/l	99
76) 1,2,3-Trichloropropane	12.970	75	246217m	48.723	ug/l	
77) Bromobenzene	12.959	156	177807	43.307	ug/l	98
78) n-propylbenzene	13.012	91	946175	44.113	ug/l	99
79) 2-Chlorotoluene	13.100	91	559855	43.374	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	645684	43.710	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	85496	44.790	ug/l	86
82) 4-Chlorotoluene	13.200	91	598781	44.123	ug/l	99
83) tert-Butylbenzene	13.417	119	547166	44.450	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	666050	45.041	ug/l	98
85) sec-Butylbenzene	13.594	105	802373	43.924	ug/l	99
86) p-Isopropyltoluene	13.706	119	658963	43.685	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	346038	42.798	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	359327	42.705	ug/l	99
89) n-Butylbenzene	14.035	91	654734	43.704	ug/l	100
90) Hexachloroethane	14.311	117	119987	41.752	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	329254	42.924	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	60532	42.504	ug/l	98
93) 1,2,4-Trichlorobenzene	15.364	180	197383	42.852	ug/l	99
94) Hexachlorobutadiene	15.476	225	67769	41.269	ug/l	99
95) Naphthalene	15.611	128	706917	43.329	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	191126	42.444	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087626.D
Acq On : 21 Aug 2025 15:47
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration

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

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

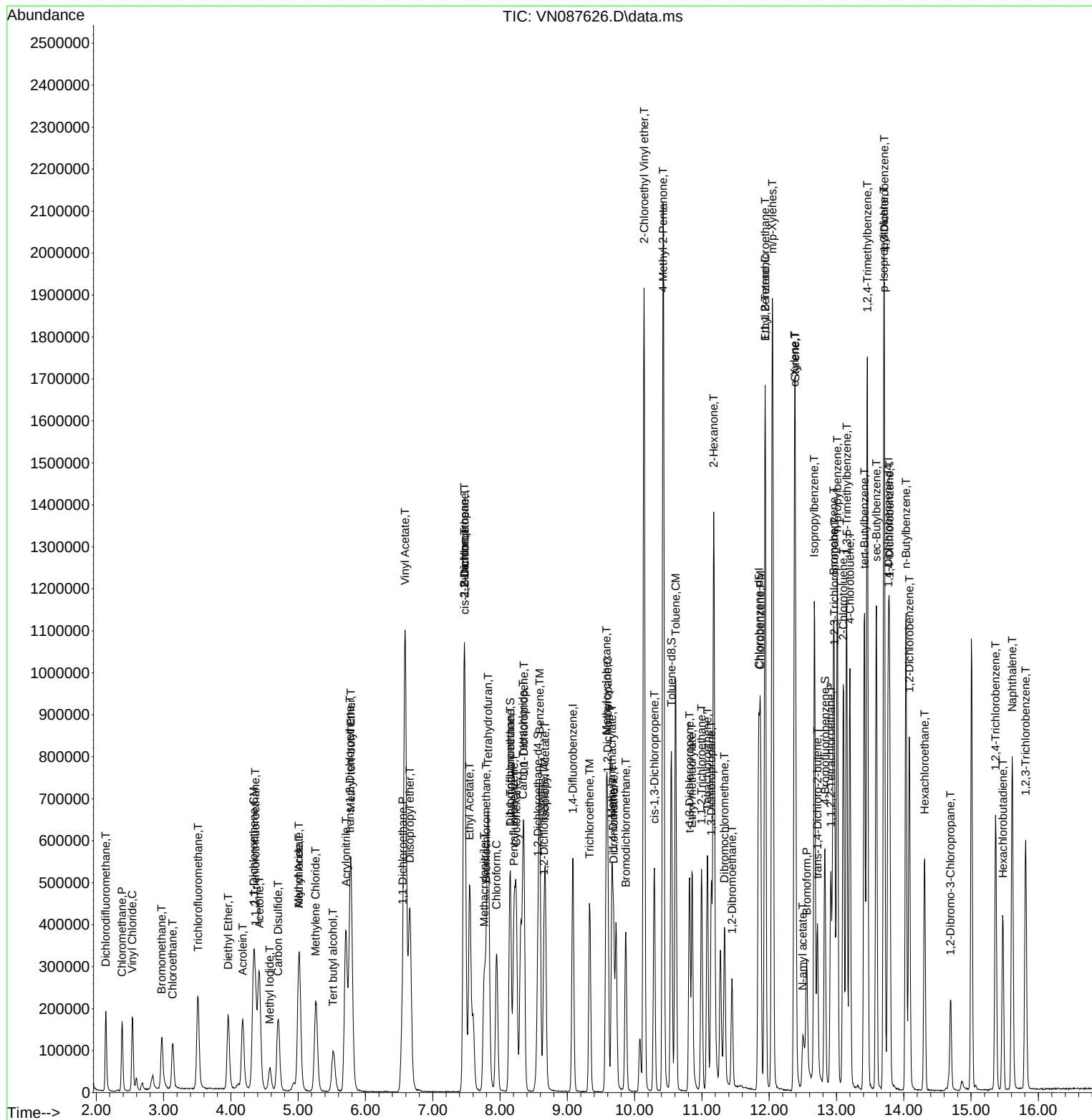
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087626.D  
Acq On    : 21 Aug 2025   15:47  
Operator  : JC\MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 15   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Manual Integrations APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.710	0.702	1.1	87	0.00
3 P	Chloromethane	0.730	0.695	4.8	88	0.00
4 C	Vinyl Chloride	0.846	0.769	9.1#	86	0.00
5 T	Bromomethane	0.437	0.440	-0.7	99	0.00
6 T	Chloroethane	0.595	0.505	15.1	85	0.00
7 T	Trichlorofluoromethane	1.240	1.091	12.0	86	0.00
8 T	Diethyl Ether	0.540	0.450	16.7	86	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.701	0.584	16.7	85	0.00
10 T	Methyl Iodide	0.450	0.429	4.7	90	0.00
11 T	Tert butyl alcohol	0.178	0.159	10.7	87	0.00
12 CM	1,1-Dichloroethene	0.721	0.607	15.8#	87	0.00
13 T	Acrolein	0.219	0.181	17.4	85	0.00
14 T	Allyl chloride	1.306	1.065	18.5	87	0.00
15 T	Acrylonitrile	0.502	0.433	13.7	88	0.00
16 T	Acetone	0.558	0.452	19.0	87	0.00
17 T	Carbon Disulfide	1.985	1.705	14.1	86	0.00
18 T	Methyl Acetate	1.168	1.013	13.3	88	0.00
19 T	Methyl tert-butyl Ether	2.704	2.346	13.2	87	0.00
20 T	Methylene Chloride	0.948	0.724	23.6	89	0.00
21 T	trans-1,2-Dichloroethene	0.781	0.655	16.1	88	0.00
22 T	Diisopropyl ether	2.819	2.411	14.5	85	0.00
23 T	Vinyl Acetate	2.565	2.270	11.5	85	0.00
24 P	1,1-Dichloroethane	1.546	1.306	15.5	88	0.00
25 T	2-Butanone	0.734	0.633	13.8	87	0.00
26 T	2,2-Dichloropropane	1.327	1.126	15.1	86	0.00
27 T	cis-1,2-Dichloroethene	0.934	0.793	15.1	85	0.01
28 T	Bromochloromethane	0.747	0.687	8.0	99	0.00
29 T	Tetrahydrofuran	0.472	0.397	15.9	84	0.00
30 C	Chloroform	1.578	1.359	13.9#	87	0.00
31 T	Cyclohexane	1.289	1.080	16.2	88	0.00
32 T	1,1,1-Trichloroethane	1.337	1.136	15.0	88	0.00
33 S	1,2-Dichloroethane-d4	1.024	0.896	12.5	94	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35 S	Dibromofluoromethane	0.361	0.312	13.6	92	0.00
36 T	1,1-Dichloropropene	0.554	0.462	16.6	86	0.00
37 T	Ethyl Acetate	0.757	0.620	18.1	83	0.00
38 T	Carbon Tetrachloride	0.547	0.477	12.8	87	0.00
39 T	Methylcyclohexane	0.610	0.508	16.7	85	0.00
40 TM	Benzene	1.699	1.465	13.8	86	0.00
41 T	Methacrylonitrile	0.392	0.334	14.8	85	0.00
42 TM	1,2-Dichloroethane	0.653	0.564	13.6	86	0.00
43 T	Isopropyl Acetate	1.182	1.030	12.9	85	0.00
44 TM	Trichloroethene	0.388	0.325	16.2	85	0.00
45 C	1,2-Dichloropropane	0.448	0.369	17.6#	84	0.00
46 T	Dibromomethane	0.319	0.276	13.5	86	0.00
47 T	Bromodichloromethane	0.653	0.564	13.6	87	0.00
48 T	Methyl methacrylate	0.559	0.487	12.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.007	0.0	86	0.00
50 S	Toluene-d8	1.351	1.165	13.8	94	0.00
51 T	4-Methyl-2-Pentanone	0.713	0.633	11.2	85	0.00
52 CM	Toluene	1.053	0.912	13.4#	86	0.00
53 T	t-1,3-Dichloropropene	0.676	0.602	10.9	85	0.00
54 T	cis-1,3-Dichloropropene	0.702	0.616	12.3	85	0.00
55 T	1,1,2-Trichloroethane	0.407	0.357	12.3	86	0.00
56 T	Ethyl methacrylate	0.651	0.613	5.8	86	0.00
57 T	1,3-Dichloropropane	0.721	0.622	13.7	84	0.00
58 T	2-Chloroethyl Vinyl ether	0.352	0.365	-3.7	102	0.00
59 T	2-Hexanone	0.451	0.433	4.0	84	0.00
60 T	Dibromochloromethane	0.472	0.405	14.2	86	0.00
61 T	1,2-Dibromoethane	0.430	0.376	12.6	86	0.00
62 S	4-Bromofluorobenzene	0.481	0.428	11.0	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.347	0.276	20.5	86	0.00
65 PM	Chlorobenzene	1.244	1.055	15.2	85	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.366	11.4	85	0.00
67 C	Ethyl Benzene	2.154	1.884	12.5#	86	0.00
68 T	m/p-Xylenes	0.790	0.709	10.3	85	0.00
69 T	o-Xylene	0.774	0.678	12.4	83	0.00
70 T	Styrene	1.297	1.187	8.5	84	0.00
71 P	Bromoform	0.317	0.284	10.4	86	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	4.040	3.535	12.5	86	0.00
74 T	N-amyl acetate	1.531	1.368	10.6	86	0.00
75 P	1,1,2,2-Tetrachloroethane	1.391	1.228	11.7	88	0.00
76 T	1,2,3-Trichloropropane	1.173	1.143	2.6	104	0.00
77 T	Bromobenzene	0.953	0.825	13.4	86	0.00
78 T	n-propylbenzene	4.977	4.391	11.8	85	0.00
79 T	2-Chlorotoluene	2.995	2.598	13.3	85	0.00
80 T	1,3,5-Trimethylbenzene	3.428	2.996	12.6	84	0.00
81 T	trans-1,4-Dichloro-2-butene	0.443	0.397	10.4	86	0.00
82 T	4-Chlorotoluene	3.149	2.779	11.7	86	0.00
83 T	tert-Butylbenzene	2.856	2.539	11.1	85	0.00
84 T	1,2,4-Trimethylbenzene	3.431	3.091	9.9	86	0.00
85 T	sec-Butylbenzene	4.239	3.723	12.2	86	0.00
86 T	p-Isopropyltoluene	3.500	3.058	12.6	85	0.00
87 T	1,3-Dichlorobenzene	1.876	1.606	14.4	86	0.00
88 T	1,4-Dichlorobenzene	1.952	1.667	14.6	87	0.00
89 T	n-Butylbenzene	3.476	3.038	12.6	86	0.00
90 T	Hexachloroethane	0.667	0.557	16.5	83	0.00
91 T	1,2-Dichlorobenzene	1.780	1.528	14.2	85	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.281	14.8	86	0.00
93 T	1,2,4-Trichlorobenzene	1.069	0.916	14.3	87	0.00
94 T	Hexachlorobutadiene	0.381	0.314	17.6	86	0.00
95 T	Naphthalene	3.786	3.280	13.4	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087626.D
Acq On : 21 Aug 2025 15:47
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.045	0.887	15.1	86	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	49.414	1.2	87	0.00
3 P	Chloromethane	50.000	47.621	4.8	88	0.00
4 C	Vinyl Chloride	50.000	45.461	9.1#	86	0.00
5 T	Bromomethane	50.000	50.369	-0.7	99	0.00
6 T	Chloroethane	50.000	42.496	15.0	85	0.00
7 T	Trichlorofluoromethane	50.000	44.000	12.0	86	0.00
8 T	Diethyl Ether	50.000	41.688	16.6	86	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	41.645	16.7	85	0.00
10 T	Methyl Iodide	50.000	42.154	15.7	90	0.00
11 T	Tert butyl alcohol	250.000	223.850	10.5	87	0.00
12 CM	1,1-Dichloroethene	50.000	42.117	15.8#	87	0.00
13 T	Acrolein	250.000	207.251	17.1	85	0.00
14 T	Allyl chloride	50.000	40.748	18.5	87	0.00
15 T	Acrylonitrile	250.000	215.953	13.6	88	0.00
16 T	Acetone	250.000	202.699	18.9	87	0.00
17 T	Carbon Disulfide	50.000	42.961	14.1	86	0.00
18 T	Methyl Acetate	50.000	43.391	13.2	88	0.00
19 T	Methyl tert-butyl Ether	50.000	43.377	13.2	87	0.00
20 T	Methylene Chloride	50.000	44.741	10.5	89	0.00
21 T	trans-1,2-Dichloroethene	50.000	41.945	16.1	88	0.00
22 T	Diisopropyl ether	50.000	42.758	14.5	85	0.00
23 T	Vinyl Acetate	250.000	221.221	11.5	85	0.00
24 P	1,1-Dichloroethane	50.000	42.240	15.5	88	0.00
25 T	2-Butanone	250.000	215.792	13.7	87	0.00
26 T	2,2-Dichloropropane	50.000	42.451	15.1	86	0.00
27 T	cis-1,2-Dichloroethene	50.000	42.454	15.1	85	0.01
28 T	Bromochloromethane	50.000	45.951	8.1	99	0.00
29 T	Tetrahydrofuran	250.000	209.937	16.0	84	0.00
30 C	Chloroform	50.000	43.085	13.8#	87	0.00
31 T	Cyclohexane	50.000	41.926	16.1	88	0.00
32 T	1,1,1-Trichloroethane	50.000	42.477	15.0	88	0.00
33 S	1,2-Dichloroethane-d4	50.000	43.718	12.6	94	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35 S	Dibromofluoromethane	50.000	43.218	13.6	92	0.00
36 T	1,1-Dichloropropene	50.000	41.688	16.6	86	0.00
37 T	Ethyl Acetate	50.000	40.980	18.0	83	0.00
38 T	Carbon Tetrachloride	50.000	43.614	12.8	87	0.00
39 T	Methylcyclohexane	50.000	41.693	16.6	85	0.00
40 TM	Benzene	50.000	43.129	13.7	86	0.00
41 T	Methacrylonitrile	50.000	42.550	14.9	85	0.00
42 TM	1,2-Dichloroethane	50.000	43.189	13.6	86	0.00
43 T	Isopropyl Acetate	50.000	43.578	12.8	85	0.00
44 TM	Trichloroethene	50.000	41.962	16.1	85	0.00
45 C	1,2-Dichloropropane	50.000	41.221	17.6#	84	0.00
46 T	Dibromomethane	50.000	43.340	13.3	86	0.00
47 T	Bromodichloromethane	50.000	43.189	13.6	87	0.00
48 T	Methyl methacrylate	50.000	43.548	12.9	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087626.D
 Acq On : 21 Aug 2025 15:47
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN082125

Quant Time: Aug 22 02:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:54:13 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	932.518	6.7	86	0.00
50 S	Toluene-d8	50.000	43.114	13.8	94	0.00
51 T	4-Methyl-2-Pentanone	250.000	222.154	11.1	85	0.00
52 CM	Toluene	50.000	43.282	13.4#	86	0.00
53 T	t-1,3-Dichloropropene	50.000	44.506	11.0	85	0.00
54 T	cis-1,3-Dichloropropene	50.000	43.867	12.3	85	0.00
55 T	1,1,2-Trichloroethane	50.000	43.838	12.3	86	0.00
56 T	Ethyl methacrylate	50.000	47.109	5.8	86	0.00
57 T	1,3-Dichloropropane	50.000	43.169	13.7	84	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	258.751	-3.5	102	0.00
59 T	2-Hexanone	250.000	240.442	3.8	84	0.00
60 T	Dibromochloromethane	50.000	42.934	14.1	86	0.00
61 T	1,2-Dibromoethane	50.000	43.736	12.5	86	0.00
62 S	4-Bromofluorobenzene	50.000	44.578	10.8	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	39.730	20.5	86	0.00
65 PM	Chlorobenzene	50.000	42.389	15.2	85	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	44.313	11.4	85	0.00
67 C	Ethyl Benzene	50.000	43.729	12.5#	86	0.00
68 T	m/p-Xylenes	100.000	89.762	10.2	85	0.00
69 T	o-Xylene	50.000	43.771	12.5	83	0.00
70 T	Styrene	50.000	45.763	8.5	84	0.00
71 P	Bromoform	50.000	44.894	10.2	86	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	43.745	12.5	86	0.00
74 T	N-amyl acetate	50.000	44.668	10.7	86	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	44.155	11.7	88	0.00
76 T	1,2,3-Trichloropropane	50.000	48.723	2.6	104	0.00
77 T	Bromobenzene	50.000	43.307	13.4	86	0.00
78 T	n-propylbenzene	50.000	44.113	11.8	85	0.00
79 T	2-Chlorotoluene	50.000	43.374	13.3	85	0.00
80 T	1,3,5-Trimethylbenzene	50.000	43.710	12.6	84	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	44.790	10.4	86	0.00
82 T	4-Chlorotoluene	50.000	44.123	11.8	86	0.00
83 T	tert-Butylbenzene	50.000	44.450	11.1	85	0.00
84 T	1,2,4-Trimethylbenzene	50.000	45.041	9.9	86	0.00
85 T	sec-Butylbenzene	50.000	43.924	12.2	86	0.00
86 T	p-Isopropyltoluene	50.000	43.685	12.6	85	0.00
87 T	1,3-Dichlorobenzene	50.000	42.798	14.4	86	0.00
88 T	1,4-Dichlorobenzene	50.000	42.705	14.6	87	0.00
89 T	n-Butylbenzene	50.000	43.704	12.6	86	0.00
90 T	Hexachloroethane	50.000	41.752	16.5	83	0.00
91 T	1,2-Dichlorobenzene	50.000	42.924	14.2	85	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	42.504	15.0	86	0.00
93 T	1,2,4-Trichlorobenzene	50.000	42.852	14.3	87	0.00
94 T	Hexachlorobutadiene	50.000	41.269	17.5	86	0.00
95 T	Naphthalene	50.000	43.329	13.3	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087626.D
Acq On : 21 Aug 2025 15:47
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082125

Quant Time: Aug 22 02:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:54:13 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	42.444	15.1	86	0.00

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q2964

Instrument ID: MSVOA_Y

Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 14:54 16:47

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

LAB FILE ID:		RRF005 = VY023050.D		RRF010 = VY023051.D		RRF020 = VY023052.D			
		RRF050 = VY023053.D		RRF100 = VY023054.D		RRF150 = VY023055.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.8	
Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9	
Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.3	
Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.5	
Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.2	
Trichlorofluoromethane	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.7	
1,1,2-Trichlorotrifluoroethane	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7	
1,1-Dichloroethene	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.4	
Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.9	
Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.3	
Methyl tert-butyl Ether	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.1	
Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.4	
Methylene Chloride	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.7	
trans-1,2-Dichloroethene	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.3	
1,1-Dichloroethane	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.1	
Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.4	
2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.5	
Carbon Tetrachloride	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.1	
cis-1,2-Dichloroethene	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.8	
Bromochloromethane	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.9	
Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.8	
1,1,1-Trichloroethane	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.8	
Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.3	
Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.8	
1,2-Dichloroethane	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.6	
Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.3	
1,2-Dichloropropane	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.1	
Bromodichloromethane	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.5	
4-Methyl-2-Pentanone	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.7	
Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.3	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q2964

Instrument ID: MSVOA_Y

Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 14:54 16:47

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

LAB FILE ID:		RRF005 = VY023050.D		RRF010 = VY023051.D		RRF020 = VY023052.D			
		RRF050 = VY023053.D		RRF100 = VY023054.D		RRF150 = VY023055.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.5	
cis-1,3-Dichloropropene	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.5	
1,1,2-Trichloroethane	0.230	0.242	0.253	0.239	0.236	0.254	0.242	4	
2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.6	
Dibromochloromethane	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.1	
1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.6	
Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.2	
Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.6	
Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.6	
m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.8	
o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.1	
Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	10	
Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5	
Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.4	
1,1,2,2-Tetrachloroethane	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.2	
1,3-Dichlorobenzene	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.5	
1,4-Dichlorobenzene	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.3	
1,2-Dichlorobenzene	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.7	
1,2-Dibromo-3-Chloropropane	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.3	
1,2,4-Trichlorobenzene	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.4	
1,2,3-Trichlorobenzene	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.7	
1,2-Dichloroethane-d4	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.7	
Dibromofluoromethane	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.1	
Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.9	
4-Bromofluorobenzene	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y081225S.M
 Title : SW846 8260
 Last Update : Wed Aug 13 02:10:11 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY023050.D 10 =VY023051.D 20 =VY023052.D 50 =VY023053.D 100 =VY023054.D 150 =VY023055.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.79
3) P	Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9.01
4) C	Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.29#
5) T	Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.52
6) T	Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.19
7) T	Trichlorofluor...	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.68
8) T	Diethyl Ether	0.271	0.276	0.271	0.251	0.245	0.264	0.263	4.69
9) T	1,1,2-Trichlor...	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7.01
10) T	Methyl Iodide	0.468	0.491	0.539	0.549	0.564	0.563	0.529	7.57
11) T	Tert butyl alc...	0.033	0.037	0.033	0.032	0.029	0.033	0.033	7.44
12) CM	1,1-Dichloroet...	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.38#
13) T	Acrolein	0.048	0.055	0.050	0.045	0.043	0.046	0.048	8.57
14) T	Allyl chloride	0.734	0.718	0.724	0.686	0.681	0.712	0.709	3.01
15) T	Acrylonitrile	0.101	0.114	0.112	0.106	0.100	0.109	0.107	5.51
16) T	Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.89
17) T	Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.30
18) T	Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.37
19) T	Methyl tert-bu...	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.09
20) T	Methylene Chlo...	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.69
21) T	trans-1,2-Dich...	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.28
22) T	Diisopropyl ether	1.442	1.565	1.609	1.512	1.510	1.605	1.541	4.21
23) T	Vinyl Acetate	0.790	0.875	0.875	0.841	0.830	0.899	0.852	4.62
24) P	1,1-Dichloroet...	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.15
25) T	2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.51
26) T	2,2-Dichloropr...	0.837	0.830	0.844	0.790	0.776	0.800	0.813	3.43
27) T	cis-1,2-Dichlo...	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.77
28) T	Bromochloromet...	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.88
29) T	Tetrahydrofuran	0.084	0.091	0.089	0.087	0.081	0.091	0.087	4.62
30) C	Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.81#
31) T	Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.35
32) T	1,1,1-Trichlor...	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.85
33) S	1,2-Dichloroet...	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.74
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.14
36) T	1,1-Dichloropr...	0.442	0.455	0.461	0.433	0.429	0.447	0.445	2.81
37) T	Ethyl Acetate	0.167	0.197	0.196	0.188	0.178	0.195	0.187	6.52
38) T	Carbon Tetrach...	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.08
39) T	Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.35
40) TM	Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.76
41) T	Methacrylonitrile	0.113	0.107	0.111	0.110	0.102	0.103	0.108	4.05
42) TM	1,2-Dichloroet...	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.59
43) T	Isopropyl Acetate	0.352	0.383	0.388	0.373	0.362	0.407	0.378	5.16
44) TM	Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.35
45) C	1,2-Dichloropr...	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.08#
46) T	Dibromomethane	0.166	0.189	0.187	0.178	0.176	0.190	0.181	5.14
47) T	Bromodichlorom...	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.47
48) T	Methyl methacr...	0.149	0.180	0.189	0.188	0.182	0.196	0.181	9.18
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	6.71
50) S	Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.92
51) T	4-Methyl-2-Pen...	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.67
52) CM	Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.28#
53) T	t-1,3-Dichloro...	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.47
54) T	cis-1,3-Dichlo...	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.54
55) T	1,1,2-Trichlor...	0.230	0.242	0.253	0.239	0.236	0.254	0.242	3.96
56) T	Ethyl methacry...	0.247	0.298	0.312	0.320	0.323	0.359	0.310	11.84

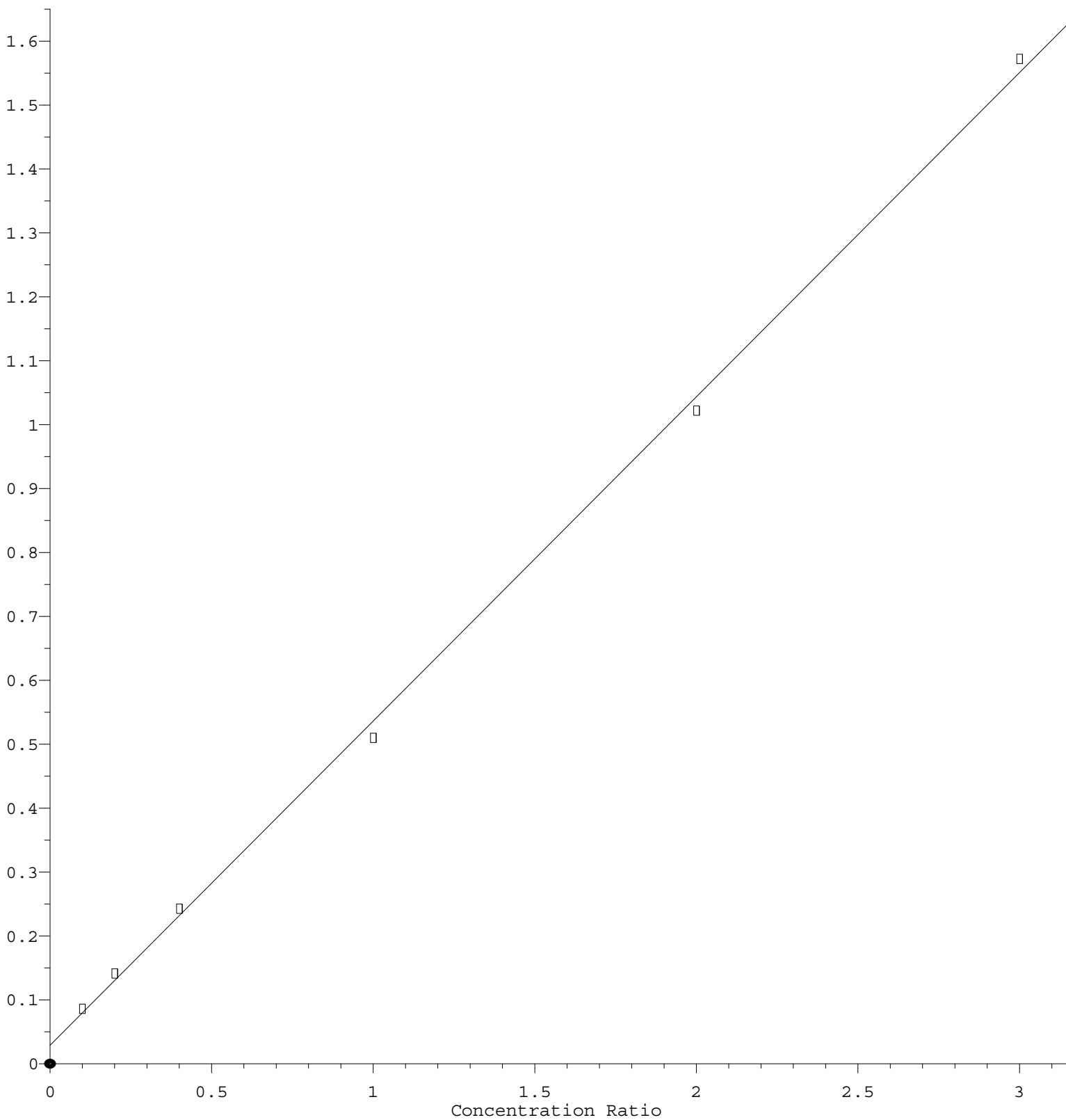
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y081225S.M

57)	T	1,3-Dichloropr...	0.385	0.421	0.429	0.405	0.395	0.429	0.411	4.52
58)	T	2-Chloroethyl ...	0.114	0.135	0.144	0.155	0.158	0.171	0.146	13.68
59)	T	2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.57
60)	T	Dibromochlorom...	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.09
61)	T	1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.60
62)	S	4-Bromofluorob...	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.41
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.16
65)	PM	Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.55
66)	T	1,1,1,2-Tetrac...	0.347	0.360	0.378	0.362	0.365	0.384	0.366	3.58
67)	C	Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.56#
68)	T	m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.80
69)	T	o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.13
70)	T	Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	9.96
71)	P	Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5.03
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.36
74)	T	N-amyl acetate	0.633	0.738	0.757	0.767	0.756	0.840	0.748	8.89
75)	P	1,1,2,2-Tetrac...	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.20
76)	T	1,2,3-Trichlor...	0.551	0.483	0.472	0.535	0.409	0.444	0.483	11.18
77)	T	Bromobenzene	0.824	0.830	0.866	0.828	0.831	0.873	0.842	2.58
78)	T	n-propylbenzene	4.052	4.149	4.317	4.217	4.158	4.315	4.201	2.46
79)	T	2-Chlorotoluene	2.349	2.398	2.464	2.382	2.390	2.461	2.407	1.90
80)	T	1,3,5-Trimethy...	2.672	2.811	2.932	2.859	2.872	2.966	2.852	3.64
81)	T	trans-1,4-Dich...	0.181	0.215	0.203	0.197	0.190	0.210	0.199	6.43
82)	T	4-Chlorotoluene	2.427	2.486	2.600	2.462	2.460	2.548	2.497	2.59
83)	T	tert-Butylbenzene	2.428	2.481	2.626	2.588	2.630	2.702	2.576	3.98
84)	T	1,2,4-Trimethy...	2.596	2.760	2.955	2.837	2.894	2.993	2.839	5.12
85)	T	sec-Butylbenzene	3.637	3.749	3.881	3.773	3.781	3.882	3.784	2.42
86)	T	p-Isopropyltol...	2.878	2.978	3.241	3.167	3.230	3.350	3.141	5.66
87)	T	1,3-Dichlorobe...	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.46
88)	T	1,4-Dichlorobe...	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.35
89)	T	n-Butylbenzene	2.625	2.809	2.972	2.911	2.933	3.059	2.885	5.24
90)	T	Hexachloroethane	0.638	0.648	0.650	0.630	0.632	0.660	0.643	1.83
91)	T	1,2-Dichlorobe...	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.65
92)	T	1,2-Dibromo-3-...	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.27
93)	T	1,2,4-Trichlor...	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.43
94)	T	Hexachlorobuta...	0.533	0.506	0.522	0.491	0.480	0.504	0.506	3.85
95)	T	Naphthalene	1.204	1.364	1.462	1.488	1.500	1.791	1.468	13.14
96)	T	1,2,3-Trichlor...	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.73

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 5.073\text{e-}001 * \text{Amt} + 2.916\text{e-}002$$

Coef of Det (r^2) = 0.998910 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y081225S.M

Calibration Table Last Updated: Wed Aug 13 02:10:11 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023050.D
 Acq On : 12 Aug 2025 14:54
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	561390	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	904866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	759914	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	360397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	27563	5.152	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.300%#		
35) Dibromofluoromethane	7.634	113	26265	4.851	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.700%#		
50) Toluene-d8	10.103	98	104144	4.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.840%#		
62) 4-Bromofluorobenzene	12.402	95	32420	4.766	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	9.540%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	27351	5.969	ug/l	96
3) Chloromethane	2.068	50	39269	5.291	ug/l	98
4) Vinyl Chloride	2.202	62	48736	5.312	ug/l	99
5) Bromomethane	2.592	94	37773	5.513	ug/l	97
6) Chloroethane	2.732	64	32816	5.380	ug/l	98
7) Trichlorofluoromethane	3.050	101	59438	5.328	ug/l	99
8) Diethyl Ether	3.452	74	15231	5.160	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	29291	5.322	ug/l	98
10) Methyl Iodide	3.994	142	26272	4.424	ug/l	98
11) Tert butyl alcohol	4.866	59	9219	25.147	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	27635	5.108	ug/l	87
13) Acrolein	3.647	56	13391	24.941	ug/l	95
14) Allyl chloride	4.372	41	41201	5.176	ug/l	94
15) Acrylonitrile	5.061	53	28255	23.547	ug/l	95
16) Acetone	3.866	43	30803	26.574	ug/l	98
17) Carbon Disulfide	4.098	76	92964	5.270	ug/l	96
18) Methyl Acetate	4.379	43	16806	4.872	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	66308	4.730	ug/l	98
20) Methylene Chloride	4.604	84	48322	5.657	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	30021	4.938	ug/l	97
22) Diisopropyl ether	6.012	45	80938	4.679	ug/l	91
23) Vinyl Acetate	5.958	43	221862	23.196	ug/l	97
24) 1,1-Dichloroethane	5.909	63	52152	4.931	ug/l	99
25) 2-Butanone	6.890	43	37821	23.991	ug/l	97
26) 2,2-Dichloropropane	6.878	77	46964	5.147	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	34877	4.962	ug/l	97
28) Bromochloromethane	7.238	49	20615	4.913	ug/l	96
29) Tetrahydrofuran	7.256	42	23487	24.035	ug/l	96
30) Chloroform	7.415	83	54392	4.987	ug/l	96
31) Cyclohexane	7.701	56	58362	5.856	ug/l #	83
32) 1,1,1-Trichloroethane	7.610	97	48413	5.003	ug/l	99
36) 1,1-Dichloropropene	7.829	75	39978	4.968	ug/l	99
37) Ethyl Acetate	6.982	43	15080	4.461	ug/l #	95
38) Carbon Tetrachloride	7.811	117	44360	5.076	ug/l	99
39) Methylcyclohexane	9.103	83	51931	4.901	ug/l	99
40) Benzene	8.073	78	122482	4.939	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023050.D
 Acq On : 12 Aug 2025 14:54
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	10246m	5.247	ug/l	
42) 1,2-Dichloroethane	8.152	62	31902	4.946	ug/l	98
43) Isopropyl Acetate	8.195	43	31890	4.668	ug/l	100
44) Trichloroethene	8.859	130	32050	5.001	ug/l	93
45) 1,2-Dichloropropane	9.134	63	27418	4.805	ug/l	93
46) Dibromomethane	9.225	93	15033	4.590	ug/l	97
47) Bromodichloromethane	9.420	83	40327	4.785	ug/l	98
48) Methyl methacrylate	9.219	41	13477	4.122	ug/l	90
49) 1,4-Dioxane	9.231	88	3454	89.939	ug/l #	91
51) 4-Methyl-2-Pentanone	9.993	43	75891	21.535	ug/l	100
52) Toluene	10.164	92	73910	4.692	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	34154	4.475	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	41326	4.579	ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	20795	4.745	ug/l	98
56) Ethyl methacrylate	10.432	69	22376	3.990	ug/l	99
57) 1,3-Dichloropropane	10.713	76	34835	4.687	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	51585	19.500	ug/l	100
59) 2-Hexanone	10.755	43	50604	21.088	ug/l	97
60) Dibromochloromethane	10.908	129	27141	4.693	ug/l	100
61) 1,2-Dibromoethane	11.012	107	18652	4.528	ug/l	97
64) Tetrachloroethene	10.640	164	36210	5.336	ug/l	97
65) Chlorobenzene	11.438	112	80684	4.922	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.511	131	26397	4.745	ug/l	94
67) Ethyl Benzene	11.511	91	134854	4.781	ug/l	99
68) m/p-Xylenes	11.621	106	102783	9.329	ug/l	97
69) o-Xylene	11.950	106	45944	4.453	ug/l	94
70) Styrene	11.963	104	71801	4.255	ug/l	97
71) Bromoform	12.127	173	14954	4.599	ug/l #	94
73) Isopropylbenzene	12.249	105	123246	4.845	ug/l	99
74) N-amyl acetate	12.066	43	22829	4.232	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.499	83	21057	4.848	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	19875m	5.710	ug/l	
77) Bromobenzene	12.530	156	29681	4.891	ug/l	100
78) n-propylbenzene	12.590	91	146043	4.822	ug/l	99
79) 2-Chlorotoluene	12.670	91	84671	4.880	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	96308	4.685	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	6514	4.533	ug/l	89
82) 4-Chlorotoluene	12.773	91	87454	4.859	ug/l	99
83) tert-Butylbenzene	12.993	119	87496	4.712	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	93551	4.571	ug/l	100
85) sec-Butylbenzene	13.170	105	131079	4.806	ug/l	99
86) p-Isopropyltoluene	13.285	119	103731	4.582	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	57668	4.819	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	60781	5.120	ug/l	97
89) n-Butylbenzene	13.609	91	94594	4.549	ug/l	98
90) Hexachloroethane	13.871	117	22980	4.958	ug/l	97
91) 1,2-Dichlorobenzene	13.651	146	50829	4.843	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	3369	4.982	ug/l	93
93) 1,2,4-Trichlorobenzene	14.913	180	28399	4.576	ug/l	98
94) Hexachlorobutadiene	15.017	225	19196	5.263	ug/l	96
95) Naphthalene	15.133	128	43395	4.100	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	24703	4.619	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

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

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

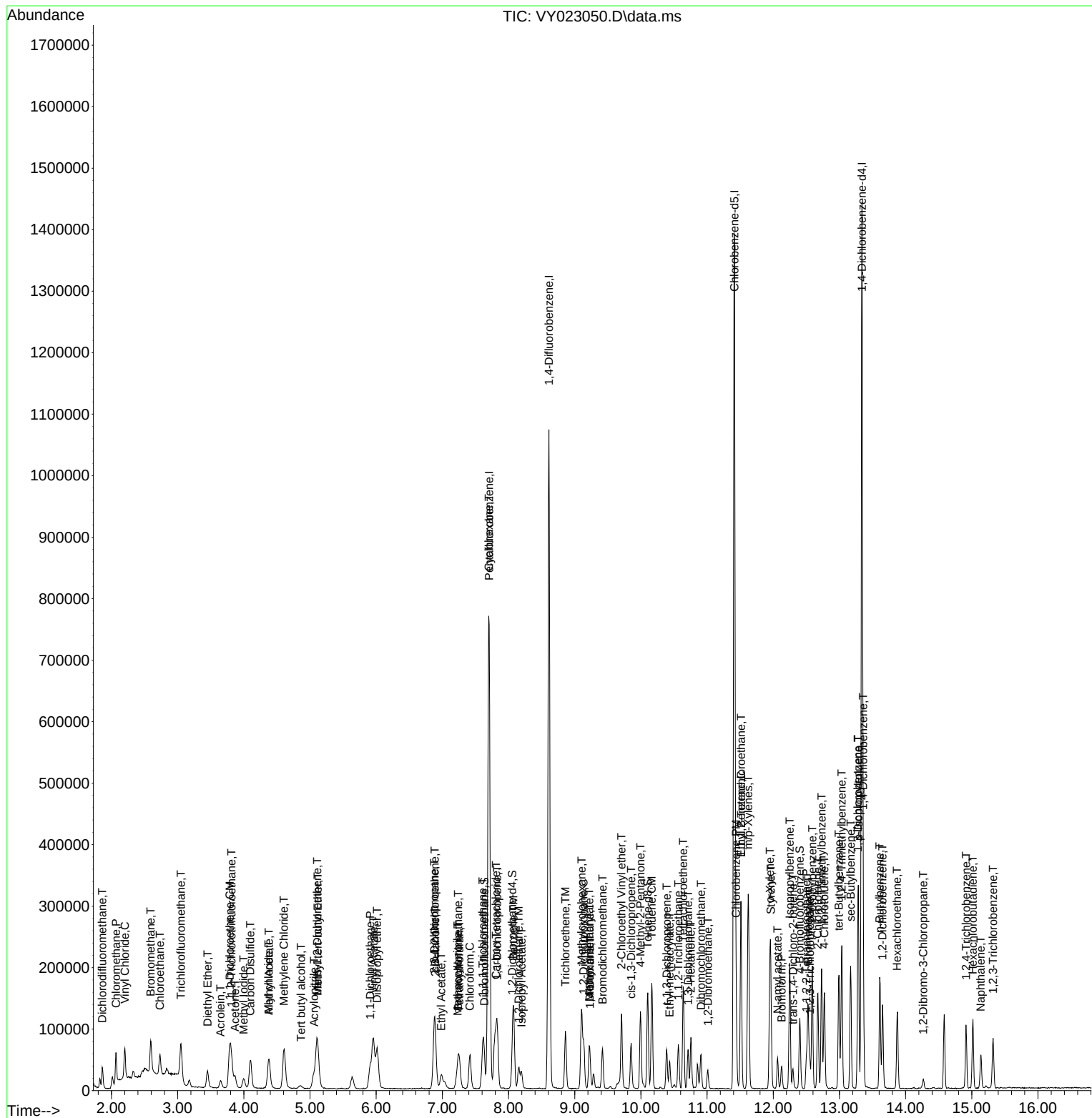
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023051.D
 Acq On : 12 Aug 2025 15:17
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	551522	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	883548	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	761327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	365647	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	54002	10.274	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.540%#		
35) Dibromofluoromethane	7.628	113	52916	10.009	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	20.020%#		
50) Toluene-d8	10.103	98	204532	9.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.800%#		
62) 4-Bromofluorobenzene	12.401	95	64927	9.775	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.540%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	51022	11.334	ug/l	95
3) Chloromethane	2.068	50	77982	10.695	ug/l	97
4) Vinyl Chloride	2.202	62	95983	10.649	ug/l	99
5) Bromomethane	2.592	94	70415	10.461	ug/l	99
6) Chloroethane	2.732	64	62514	10.432	ug/l	97
7) Trichlorofluoromethane	3.049	101	115150	10.507	ug/l	94
8) Diethyl Ether	3.452	74	30390	10.481	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	57210	10.581	ug/l	100
10) Methyl Iodide	4.001	142	54184	9.287	ug/l	99
11) Tert butyl alcohol	4.866	59	20212	56.119	ug/l	99
12) 1,1-Dichloroethene	3.781	96	55669	10.475	ug/l	92
13) Acrolein	3.647	56	30081	57.030	ug/l	97
14) Allyl chloride	4.372	41	79145	10.121	ug/l	98
15) Acrylonitrile	5.049	53	62889	53.349	ug/l	99
16) Acetone	3.873	43	61290	53.821	ug/l	94
17) Carbon Disulfide	4.098	76	183399	10.583	ug/l	98
18) Methyl Acetate	4.385	43	33996	10.032	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	139820	10.153	ug/l	95
20) Methylene Chloride	4.604	84	77920	11.095	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	61826	10.352	ug/l	100
22) Diisopropyl ether	6.012	45	172602	10.157	ug/l	93
23) Vinyl Acetate	5.957	43	482714	51.372	ug/l	98
24) 1,1-Dichloroethane	5.903	63	106831	10.282	ug/l	99
25) 2-Butanone	6.896	43	83923	54.187	ug/l	96
26) 2,2-Dichloropropane	6.878	77	91579	10.215	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	68839	9.970	ug/l	99
28) Bromochloromethane	7.238	49	41820	10.146	ug/l	100
29) Tetrahydrofuran	7.262	42	49926	52.005	ug/l	99
30) Chloroform	7.415	83	109942	10.260	ug/l	93
31) Cyclohexane	7.701	56	103068	10.527	ug/l #	89
32) 1,1,1-Trichloroethane	7.616	97	96693	10.170	ug/l	98
36) 1,1-Dichloropropene	7.829	75	80479	10.243	ug/l	99
37) Ethyl Acetate	6.982	43	34854	10.560	ug/l	97
38) Carbon Tetrachloride	7.811	117	85932	10.070	ug/l	97
39) Methylcyclohexane	9.103	83	102275	9.885	ug/l	99
40) Benzene	8.073	78	243060	10.037	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023051.D
 Acq On : 12 Aug 2025 15:17
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	18825	9.872	ug/l #	89
42) 1,2-Dichloroethane	8.152	62	65350	10.376	ug/l	99
43) Isopropyl Acetate	8.195	43	67669	10.144	ug/l	99
44) Trichloroethene	8.859	130	62689	10.017	ug/l	98
45) 1,2-Dichloropropane	9.134	63	56720	10.179	ug/l	97
46) Dibromomethane	9.225	93	33460	10.462	ug/l	98
47) Bromodichloromethane	9.420	83	81951	9.959	ug/l	97
48) Methyl methacrylate	9.213	41	31851	9.978	ug/l	96
49) 1,4-Dioxane	9.231	88	7705	205.471	ug/l	94
51) 4-Methyl-2-Pentanone	9.993	43	177157	51.484	ug/l	98
52) Toluene	10.164	92	150422	9.780	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	72507	9.730	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	85945	9.753	ug/l	100
55) 1,1,2-Trichloroethane	10.566	97	42712	9.981	ug/l	97
56) Ethyl methacrylate	10.432	69	52746	9.632	ug/l	98
57) 1,3-Dichloropropane	10.713	76	74433	10.256	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	119417	46.232	ug/l	98
59) 2-Hexanone	10.755	43	118452	50.553	ug/l	99
60) Dibromochloromethane	10.902	129	56045	9.925	ug/l	99
61) 1,2-Dibromoethane	11.011	107	41009	10.196	ug/l	99
64) Tetrachloroethene	10.640	164	70502	10.371	ug/l	98
65) Chlorobenzene	11.438	112	162985	9.925	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	54856	9.842	ug/l	97
67) Ethyl Benzene	11.511	91	273281	9.670	ug/l	99
68) m/p-Xylenes	11.621	106	212766	19.277	ug/l	99
69) o-Xylene	11.950	106	97841	9.465	ug/l	98
70) Styrene	11.963	104	155809	9.216	ug/l	99
71) Bromoform	12.127	173	32470	9.968	ug/l #	97
73) Isopropylbenzene	12.249	105	254745	9.871	ug/l	99
74) N-amyl acetate	12.066	43	53943	9.857	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	47304	10.735	ug/l	99
76) 1,2,3-Trichloropropane	12.548	75	35353m	10.012	ug/l	
77) Bromobenzene	12.523	156	60728	9.864	ug/l	96
78) n-propylbenzene	12.590	91	303440	9.876	ug/l	100
79) 2-Chlorotoluene	12.676	91	175364	9.962	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	205544	9.855	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	15715	10.780	ug/l	96
82) 4-Chlorotoluene	12.767	91	181812	9.956	ug/l	99
83) tert-Butylbenzene	12.993	119	181408	9.630	ug/l	99
84) 1,2,4-Trimethylbenzene	13.035	105	201812	9.720	ug/l	100
85) sec-Butylbenzene	13.170	105	274178	9.908	ug/l	99
86) p-Isopropyltoluene	13.285	119	217799	9.482	ug/l	98
87) 1,3-Dichlorobenzene	13.279	146	120109	9.893	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	121160	10.060	ug/l	97
89) n-Butylbenzene	13.609	91	205420	9.737	ug/l	98
90) Hexachloroethane	13.871	117	47353	10.071	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	107656	10.110	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	7032	10.250	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	61323	9.739	ug/l	99
94) Hexachlorobutadiene	15.017	225	37011	10.003	ug/l	99
95) Naphthalene	15.139	128	99780	9.293	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	53626	9.883	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

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

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

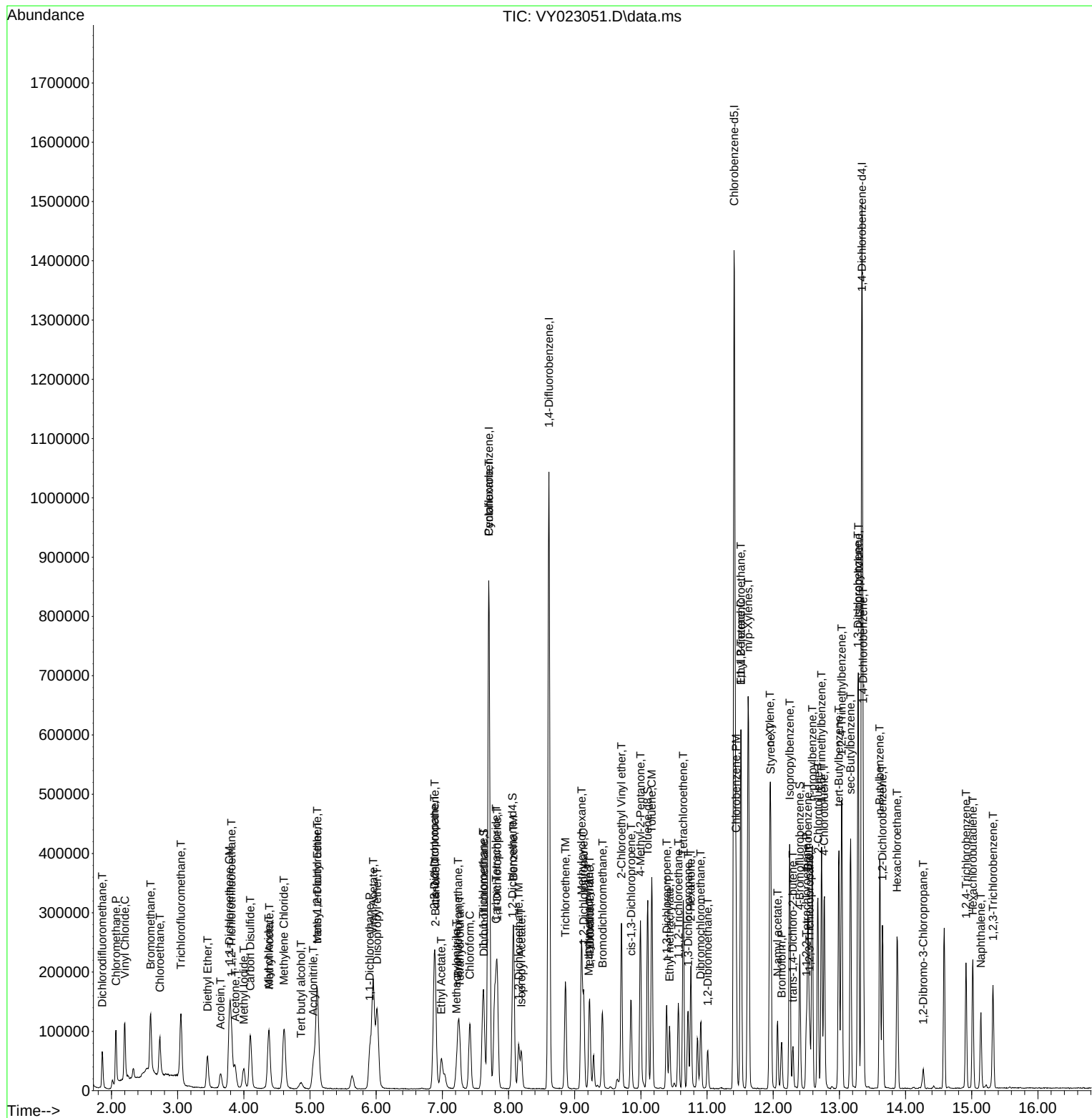
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDIC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023052.D
 Acq On : 12 Aug 2025 15:40
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	537748	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	848953	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	745484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	370932	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.055	65	103755	20.244	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	40.480%#
35) Dibromofluoromethane	7.628	113	102068	20.093	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	40.180%#
50) Toluene-d8	10.103	98	398394	20.075	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	40.160%#
62) 4-Bromofluorobenzene	12.402	95	124467	19.503	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	39.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.861	85	98926	22.537	ug/l	98
3) Chloromethane	2.068	50	158310	22.268	ug/l	99
4) Vinyl Chloride	2.202	62	188307	21.427	ug/l	99
5) Bromomethane	2.586	94	140517	21.410	ug/l	99
6) Chloroethane	2.726	64	122310	20.934	ug/l	99
7) Trichlorofluoromethane	3.050	101	225373	21.090	ug/l	99
8) Diethyl Ether	3.452	74	58245	20.602	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.805	101	112116	21.267	ug/l	99
10) Methyl Iodide	3.994	142	115879	20.370	ug/l	99
11) Tert butyl alcohol	4.860	59	35192	100.214	ug/l	98
12) 1,1-Dichloroethene	3.781	96	107992	20.840	ug/l	99
13) Acrolein	3.653	56	54065	105.126	ug/l	100
14) Allyl chloride	4.379	41	155709	20.421	ug/l	97
15) Acrylonitrile	5.055	53	120151	104.535	ug/l	97
16) Acetone	3.866	43	113468	102.193	ug/l	96
17) Carbon Disulfide	4.098	76	357484	21.157	ug/l	98
18) Methyl Acetate	4.379	43	69853	21.141	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	278863	20.767	ug/l	99
20) Methylene Chloride	4.610	84	130416	21.069	ug/l	96
21) trans-1,2-Dichloroethene	5.104	96	120321	20.661	ug/l	96
22) Diisopropyl ether	6.012	45	346195	20.894	ug/l	95
23) Vinyl Acetate	5.951	43	941364	102.748	ug/l	97
24) 1,1-Dichloroethane	5.909	63	211558	20.884	ug/l	98
25) 2-Butanone	6.890	43	153363	101.559	ug/l	100
26) 2,2-Dichloropropane	6.878	77	181528	20.767	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	138775	20.613	ug/l	99
28) Bromochloromethane	7.244	49	84540	21.035	ug/l	99
29) Tetrahydrofuran	7.262	42	95795	102.341	ug/l	99
30) Chloroform	7.415	83	215585	20.635	ug/l	98
31) Cyclohexane	7.701	56	194671	20.393	ug/l	96
32) 1,1,1-Trichloroethane	7.610	97	193268	20.848	ug/l	99
36) 1,1-Dichloropropene	7.835	75	156617	20.746	ug/l	98
37) Ethyl Acetate	6.982	43	66420	20.944	ug/l	100
38) Carbon Tetrachloride	7.817	117	171344	20.897	ug/l	98
39) Methylcyclohexane	9.103	83	205594	20.680	ug/l	98
40) Benzene	8.079	78	485631	20.871	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023052.D
 Acq On : 12 Aug 2025 15:40
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	37785m	20.623	ug/l	
42) 1,2-Dichloroethane	8.152	62	126111	20.839	ug/l	100
43) Isopropyl Acetate	8.195	43	131854	20.571	ug/l	98
44) Trichloroethene	8.859	130	126772	21.083	ug/l	98
45) 1,2-Dichloropropane	9.134	63	110699	20.677	ug/l	99
46) Dibromomethane	9.225	93	63410	20.635	ug/l	98
47) Bromodichloromethane	9.420	83	165954	20.988	ug/l	96
48) Methyl methacrylate	9.219	41	64120	20.905	ug/l	98
49) 1,4-Dioxane	9.225	88	14826	411.480	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	339298	102.622	ug/l	100
52) Toluene	10.164	92	306193	20.719	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	147696	20.627	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	174243	20.580	ug/l	96
55) 1,1,2-Trichloroethane	10.566	97	86022	20.920	ug/l	99
56) Ethyl methacrylate	10.432	69	105816	20.111	ug/l	99
57) 1,3-Dichloropropane	10.713	76	145621	20.882	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	244340	98.450	ug/l	99
59) 2-Hexanone	10.755	43	231872	102.992	ug/l	99
60) Dibromochloromethane	10.908	129	110810	20.424	ug/l	99
61) 1,2-Dibromoethane	11.012	107	80549	20.842	ug/l	97
64) Tetrachloroethene	10.640	164	141609	21.273	ug/l	99
65) Chlorobenzene	11.438	112	332700	20.690	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	112677	20.647	ug/l	99
67) Ethyl Benzene	11.511	91	564855	20.412	ug/l	99
68) m/p-Xylenes	11.621	106	444361	41.115	ug/l	98
69) o-Xylene	11.950	106	207639	20.513	ug/l	99
70) Styrene	11.963	104	339891	20.532	ug/l	99
71) Bromoform	12.127	173	64275	20.151	ug/l #	98
73) Isopropylbenzene	12.249	105	534421	20.413	ug/l	100
74) N-amyl acetate	12.066	43	112297	20.227	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	89782	20.085	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	70070m	19.560	ug/l	
77) Bromobenzene	12.523	156	128501	20.574	ug/l	99
78) n-propylbenzene	12.590	91	640528	20.550	ug/l	99
79) 2-Chlorotoluene	12.670	91	365577	20.471	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	435074	20.563	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	30153	20.389	ug/l	97
82) 4-Chlorotoluene	12.773	91	385755	20.822	ug/l	99
83) tert-Butylbenzene	12.993	119	389621	20.389	ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	438392	20.814	ug/l	98
85) sec-Butylbenzene	13.170	105	575804	20.512	ug/l	100
86) p-Isopropyltoluene	13.285	119	480937	20.640	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	252452	20.497	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	249280	20.403	ug/l	99
89) n-Butylbenzene	13.609	91	440963	20.605	ug/l	99
90) Hexachloroethane	13.871	117	96478	20.226	ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	222000	20.552	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	13973	20.076	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	130718	20.464	ug/l	98
94) Hexachlorobutadiene	15.017	225	77511	20.650	ug/l	99
95) Naphthalene	15.139	128	216923	19.915	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	111506	20.258	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

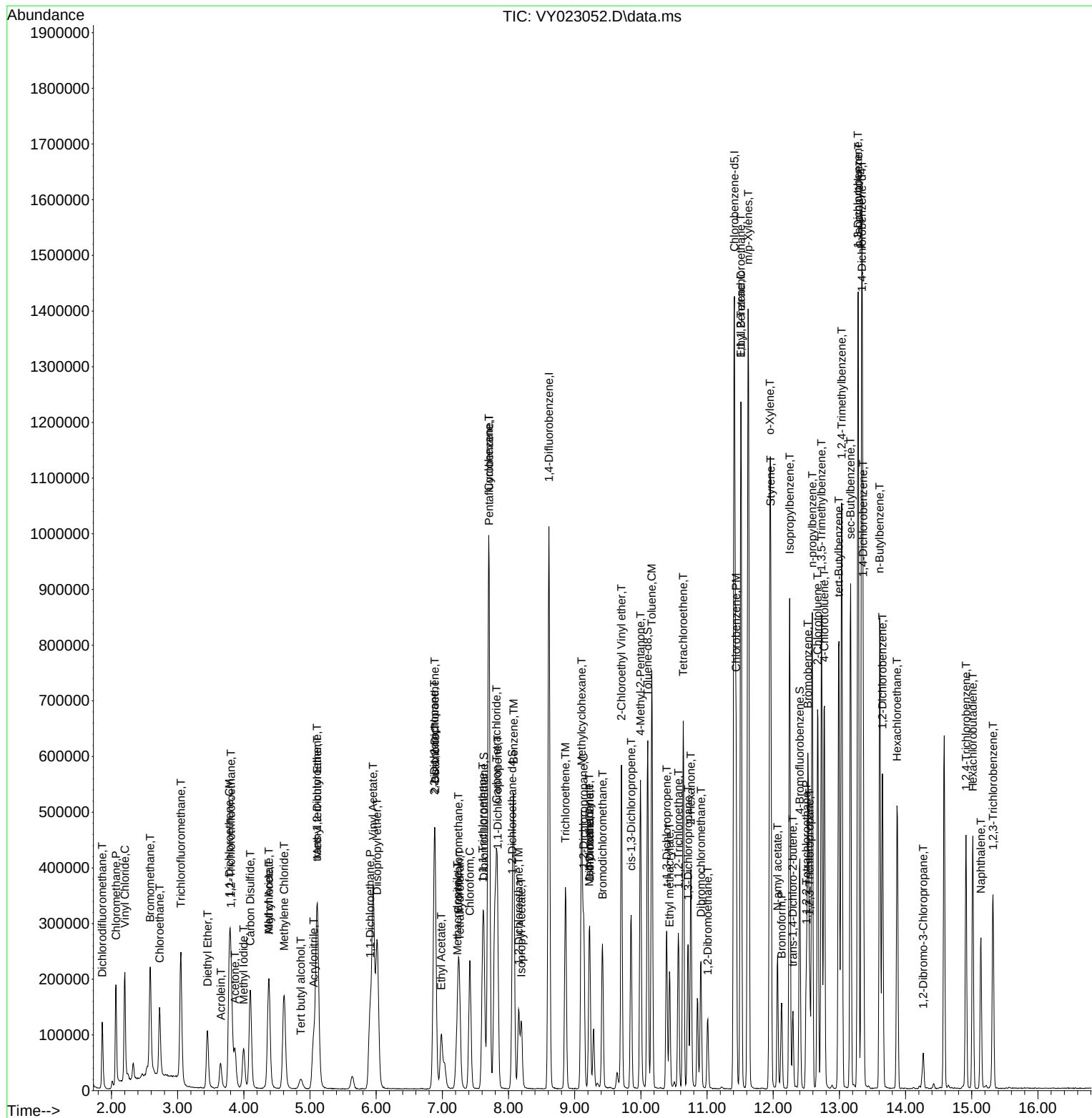
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDIC020

Manual Integrations

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023053.D
 Acq On : 12 Aug 2025 16:02
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	539282	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	856556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	751969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	377839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	249044	48.455	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.900%		
35) Dibromofluoromethane	7.628	113	251193	49.010	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.020%		
50) Toluene-d8	10.103	98	979082	48.899	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.800%		
62) 4-Bromofluorobenzene	12.401	95	316770	49.194	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	98.380%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	187863	42.677	ug/l	100
3) Chloromethane	2.068	50	327481	45.932	ug/l	100
4) Vinyl Chloride	2.196	62	414609	47.044	ug/l	100
5) Bromomethane	2.592	94	291336	44.263	ug/l	100
6) Chloroethane	2.726	64	277698	47.394	ug/l	100
7) Trichlorofluoromethane	3.049	101	505137	47.136	ug/l	100
8) Diethyl Ether	3.446	74	135373	47.747	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.805	101	249063	47.109	ug/l	100
10) Methyl Iodide	3.994	142	296087	51.899	ug/l	100
11) Tert butyl alcohol	4.860	59	85712	243.383	ug/l	100
12) 1,1-Dichloroethene	3.781	96	249492	48.009	ug/l	100
13) Acrolein	3.647	56	121185	234.966	ug/l	100
14) Allyl chloride	4.378	41	369720	48.350	ug/l	100
15) Acrylonitrile	5.049	53	285675	247.839	ug/l	100
16) Acetone	3.860	43	278510	250.122	ug/l	100
17) Carbon Disulfide	4.098	76	804119	47.456	ug/l	100
18) Methyl Acetate	4.378	43	173642	52.403	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	666514	49.495	ug/l	100
20) Methylene Chloride	4.604	84	275004	47.415	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	282272	48.334	ug/l	100
22) Diisopropyl ether	6.018	45	815359	49.070	ug/l	100
23) Vinyl Acetate	5.951	43	2268046	246.849	ug/l	100
24) 1,1-Dichloroethane	5.909	63	495073	48.732	ug/l	100
25) 2-Butanone	6.884	43	382711	252.715	ug/l	100
26) 2,2-Dichloropropane	6.884	77	425773	48.571	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	327272	48.474	ug/l	100
28) Bromochloromethane	7.244	49	196667	48.795	ug/l	100
29) Tetrahydrofuran	7.256	42	235169	250.523	ug/l	100
30) Chloroform	7.415	83	508641	48.547	ug/l	100
31) Cyclohexane	7.695	56	440266	45.989	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	451521	48.569	ug/l	100
36) 1,1-Dichloropropene	7.829	75	371204	48.734	ug/l	100
37) Ethyl Acetate	6.982	43	160980	50.311	ug/l	100
38) Carbon Tetrachloride	7.817	117	399463	48.285	ug/l	100
39) Methylcyclohexane	9.103	83	484691	48.321	ug/l	100
40) Benzene	8.073	78	1142910	48.683	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023053.D
 Acq On : 12 Aug 2025 16:02
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	94123	50.916	ug/l	100
42) 1,2-Dichloroethane	8.152	62	296907	48.627	ug/l	100
43) Isopropyl Acetate	8.195	43	319600	49.419	ug/l	100
44) Trichloroethene	8.859	130	292421	48.199	ug/l	100
45) 1,2-Dichloropropane	9.140	63	264354	48.938	ug/l	100
46) Dibromomethane	9.225	93	152822	49.291	ug/l	100
47) Bromodichloromethane	9.420	83	393523	49.327	ug/l	100
48) Methyl methacrylate	9.213	41	160792	51.958	ug/l	100
49) 1,4-Dioxane	9.225	88	36249	997.124	ug/l	100
51) 4-Methyl-2-Pentanone	9.993	43	853025	255.710	ug/l	100
52) Toluene	10.164	92	735326	49.315	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	359698	49.790	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	424834	49.731	ug/l	100
55) 1,1,2-Trichloroethane	10.566	97	204368	49.261	ug/l	100
56) Ethyl methacrylate	10.432	69	273801	51.576	ug/l	100
57) 1,3-Dichloropropane	10.713	76	346510	49.249	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	663351	264.906	ug/l	100
59) 2-Hexanone	10.755	43	584223	257.194	ug/l	100
60) Dibromochloromethane	10.908	129	272171	49.719	ug/l	100
61) 1,2-Dibromoethane	11.005	107	193398	49.598	ug/l	100
64) Tetrachloroethene	10.640	164	327271	48.740	ug/l	100
65) Chlorobenzene	11.438	112	793490	48.920	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.511	131	271839	49.381	ug/l	100
67) Ethyl Benzene	11.511	91	1397704	50.073	ug/l	100
68) m/p-Xylenes	11.621	106	1080401	99.103	ug/l	100
69) o-Xylene	11.950	106	516002	50.536	ug/l	100
70) Styrene	11.962	104	844409	50.569	ug/l	100
71) Bromoform	12.127	173	160769	49.969	ug/l #	100
73) Isopropylbenzene	12.249	105	1324313	49.660	ug/l	100
74) N-amyl acetate	12.066	43	289914	51.264	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.499	83	220853	48.503	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	202260m	55.430	ug/l	
77) Bromobenzene	12.523	156	312706	49.152	ug/l	100
78) n-propylbenzene	12.590	91	1593368	50.186	ug/l	100
79) 2-Chlorotoluene	12.670	91	899967	49.473	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1080333	50.126	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	74567	49.500	ug/l	100
82) 4-Chlorotoluene	12.767	91	930329	49.299	ug/l	100
83) tert-Butylbenzene	12.993	119	978031	50.244	ug/l	100
84) 1,2,4-Trimethylbenzene	13.035	105	1071926	49.963	ug/l	100
85) sec-Butylbenzene	13.170	105	1425553	49.854	ug/l	100
86) p-Isopropyltoluene	13.285	119	1196645	50.417	ug/l	100
87) 1,3-Dichlorobenzene	13.279	146	608249	48.481	ug/l	100
88) 1,4-Dichlorobenzene	13.359	146	605079	48.618	ug/l	100
89) n-Butylbenzene	13.609	91	1099864	50.454	ug/l	100
90) Hexachloroethane	13.871	117	238005	48.984	ug/l	100
91) 1,2-Dichlorobenzene	13.651	146	536637	48.772	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35867	50.592	ug/l	100
93) 1,2,4-Trichlorobenzene	14.913	180	320080	49.192	ug/l	100
94) Hexachlorobutadiene	15.017	225	185604	48.543	ug/l	100
95) Naphthalene	15.139	128	562363	50.685	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	272154	48.540	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

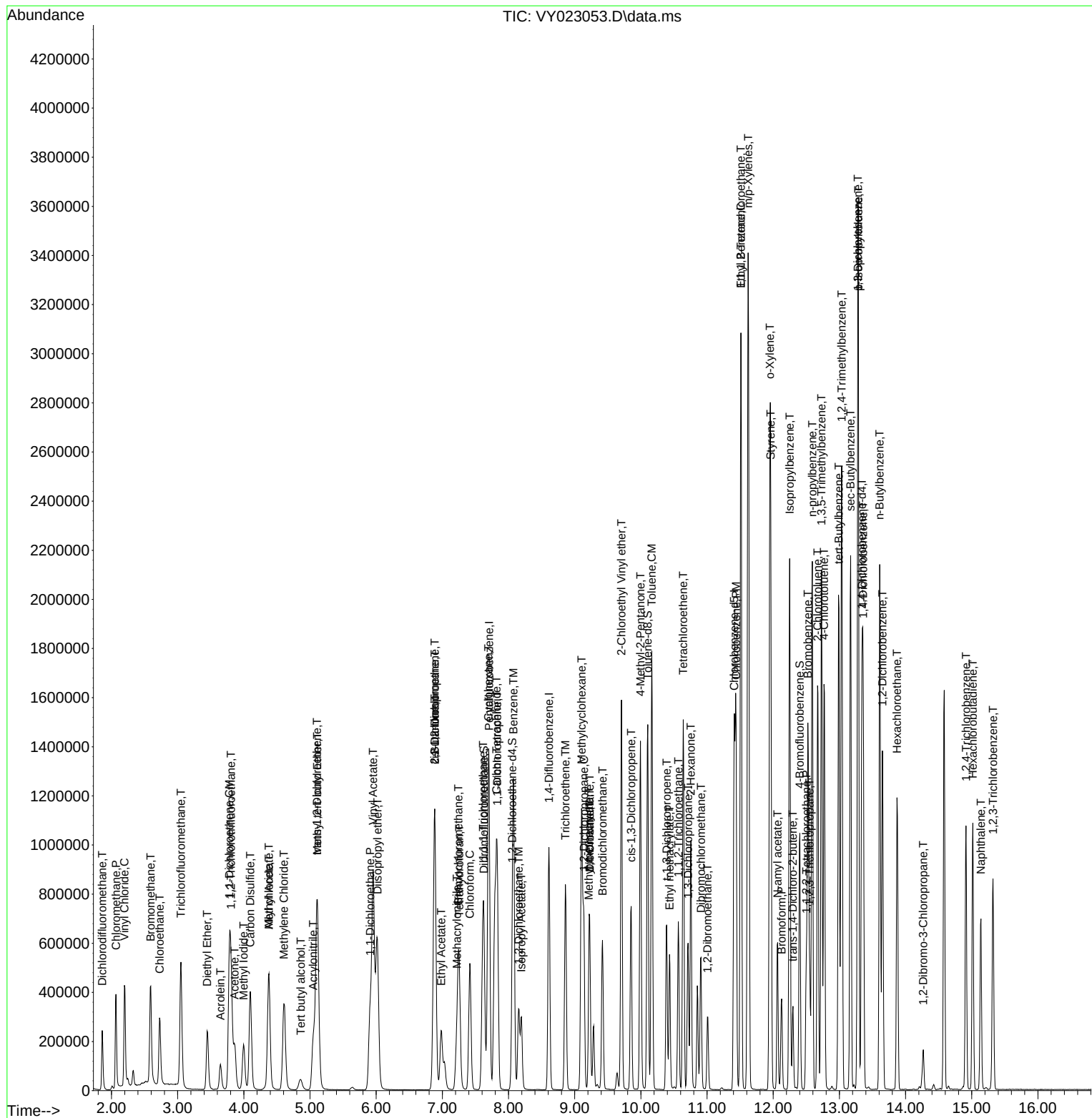
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023054.D
 Acq On : 12 Aug 2025 16:25
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	558266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	880463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	784385	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	404136	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	527356	99.115	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 198.220%#	
35) Dibromofluoromethane	7.628	113	540106	102.518	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 205.040%#	
50) Toluene-d8	10.103	98	2116445	102.832	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 205.660%#	
62) 4-Bromofluorobenzene	12.402	95	702583	106.147	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 212.300%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	376261	82.570	ug/l	98
3) Chloromethane	2.068	50	673475	91.248	ug/l	99
4) Vinyl Chloride	2.202	62	841648	92.250	ug/l	98
5) Bromomethane	2.586	94	643103	94.384	ug/l	100
6) Chloroethane	2.727	64	567515	93.563	ug/l	99
7) Trichlorofluoromethane	3.050	101	1005284	90.617	ug/l	99
8) Diethyl Ether	3.452	74	273400	93.150	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	497408	90.882	ug/l	99
10) Methyl Iodide	4.001	142	629775	106.635	ug/l	99
11) Tert butyl alcohol	4.866	59	162373	445.387	ug/l	99
12) 1,1-Dichloroethene	3.787	96	506919	94.229	ug/l	95
13) Acrolein	3.647	56	240580	450.599	ug/l	100
14) Allyl chloride	4.379	41	759925	96.000	ug/l	99
15) Acrylonitrile	5.049	53	555815	465.802	ug/l	99
16) Acetone	3.867	43	522178	453.007	ug/l	97
17) Carbon Disulfide	4.098	76	1622451	92.494	ug/l	100
18) Methyl Acetate	4.379	43	312127	90.993	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1342237	96.284	ug/l	100
20) Methylene Chloride	4.610	84	570465	97.847	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	580972	96.098	ug/l	99
22) Diisopropyl ether	6.019	45	1686285	98.033	ug/l	99
23) Vinyl Acetate	5.958	43	4632278	487.023	ug/l	100
24) 1,1-Dichloroethane	5.909	63	1012815	96.306	ug/l	100
25) 2-Butanone	6.890	43	722555	460.899	ug/l	97
26) 2,2-Dichloropropane	6.878	77	866598	95.497	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	681242	97.472	ug/l	100
28) Bromochloromethane	7.244	49	409677	98.188	ug/l	100
29) Tetrahydrofuran	7.256	42	451254	464.370	ug/l	100
30) Chloroform	7.415	83	1045381	96.383	ug/l	96
31) Cyclohexane	7.695	56	884707	89.271	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	929858	96.620	ug/l	99
36) 1,1-Dichloropropene	7.829	75	755114	96.443	ug/l	99
37) Ethyl Acetate	6.982	43	313447	95.302	ug/l	99
38) Carbon Tetrachloride	7.811	117	819941	96.419	ug/l	98
39) Methylcyclohexane	9.103	83	1011944	98.146	ug/l	99
40) Benzene	8.073	78	2348617	97.324	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023054.D
 Acq On : 12 Aug 2025 16:25
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	180468	94.973	ug/l	98
42) 1,2-Dichloroethane	8.152	62	597215	95.155	ug/l	100
43) Isopropyl Acetate	8.195	43	636710	95.780	ug/l	99
44) Trichloroethene	8.860	130	602322	96.584	ug/l	97
45) 1,2-Dichloropropane	9.140	63	543589	97.899	ug/l	99
46) Dibromomethane	9.225	93	309302	97.052	ug/l	99
47) Bromodichloromethane	9.420	83	802532	97.864	ug/l	98
48) Methyl methacrylate	9.219	41	319906	100.567	ug/l	99
49) 1,4-Dioxane	9.225	88	71300	1908.039	ug/l	94
51) 4-Methyl-2-Pentanone	9.994	43	1669668	486.924	ug/l	100
52) Toluene	10.164	92	1537088	100.288	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	754278	101.574	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	880571	100.281	ug/l	99
55) 1,1,2-Trichloroethane	10.567	97	415556	97.446	ug/l	99
56) Ethyl methacrylate	10.432	69	569556	104.375	ug/l	100
57) 1,3-Dichloropropane	10.713	76	696130	96.253	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	1389847	539.957	ug/l	99
59) 2-Hexanone	10.756	43	1151000	492.950	ug/l	100
60) Dibromochloromethane	10.902	129	557205	99.024	ug/l	99
61) 1,2-Dibromoethane	11.012	107	391650	97.713	ug/l	98
64) Tetrachloroethene	10.640	164	615871	87.931	ug/l	98
65) Chlorobenzene	11.438	112	1658154	98.004	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	573131	99.810	ug/l	99
67) Ethyl Benzene	11.512	91	2914020	100.082	ug/l	98
68) m/p-Xylenes	11.621	106	2312597	203.363	ug/l	98
69) o-Xylene	11.950	106	1100998	103.373	ug/l	99
70) Styrene	11.963	104	1845480	105.953	ug/l	99
71) Bromoform	12.127	173	334886	99.786	ug/l #	99
73) Isopropylbenzene	12.249	105	2839999	99.567	ug/l	99
74) N-amyl acetate	12.066	43	610668	100.955	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	469810	96.464	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	330554m	84.695	ug/l	
77) Bromobenzene	12.524	156	671329	98.655	ug/l	98
78) n-propylbenzene	12.591	91	3360679	98.963	ug/l	99
79) 2-Chlorotoluene	12.670	91	1931460	99.268	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	2321527	100.707	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	153260	95.118	ug/l	100
82) 4-Chlorotoluene	12.767	91	1988544	98.519	ug/l	100
83) tert-Butylbenzene	12.993	119	2125785	102.102	ug/l	98
84) 1,2,4-Trimethylbenzene	13.036	105	2339432	101.946	ug/l	100
85) sec-Butylbenzene	13.170	105	3056373	99.932	ug/l	100
86) p-Isopropyltoluene	13.286	119	2610936	102.846	ug/l	100
87) 1,3-Dichlorobenzene	13.280	146	1338547	99.748	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	1290840	96.970	ug/l	99
89) n-Butylbenzene	13.609	91	2370706	101.675	ug/l	100
90) Hexachloroethane	13.871	117	510900	98.308	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	1162152	98.749	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	69736	91.965	ug/l	97
93) 1,2,4-Trichlorobenzene	14.913	180	692201	99.460	ug/l	98
94) Hexachlorobutadiene	15.017	225	387707	94.803	ug/l	99
95) Naphthalene	15.133	128	1212227	102.147	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	587990	98.046	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

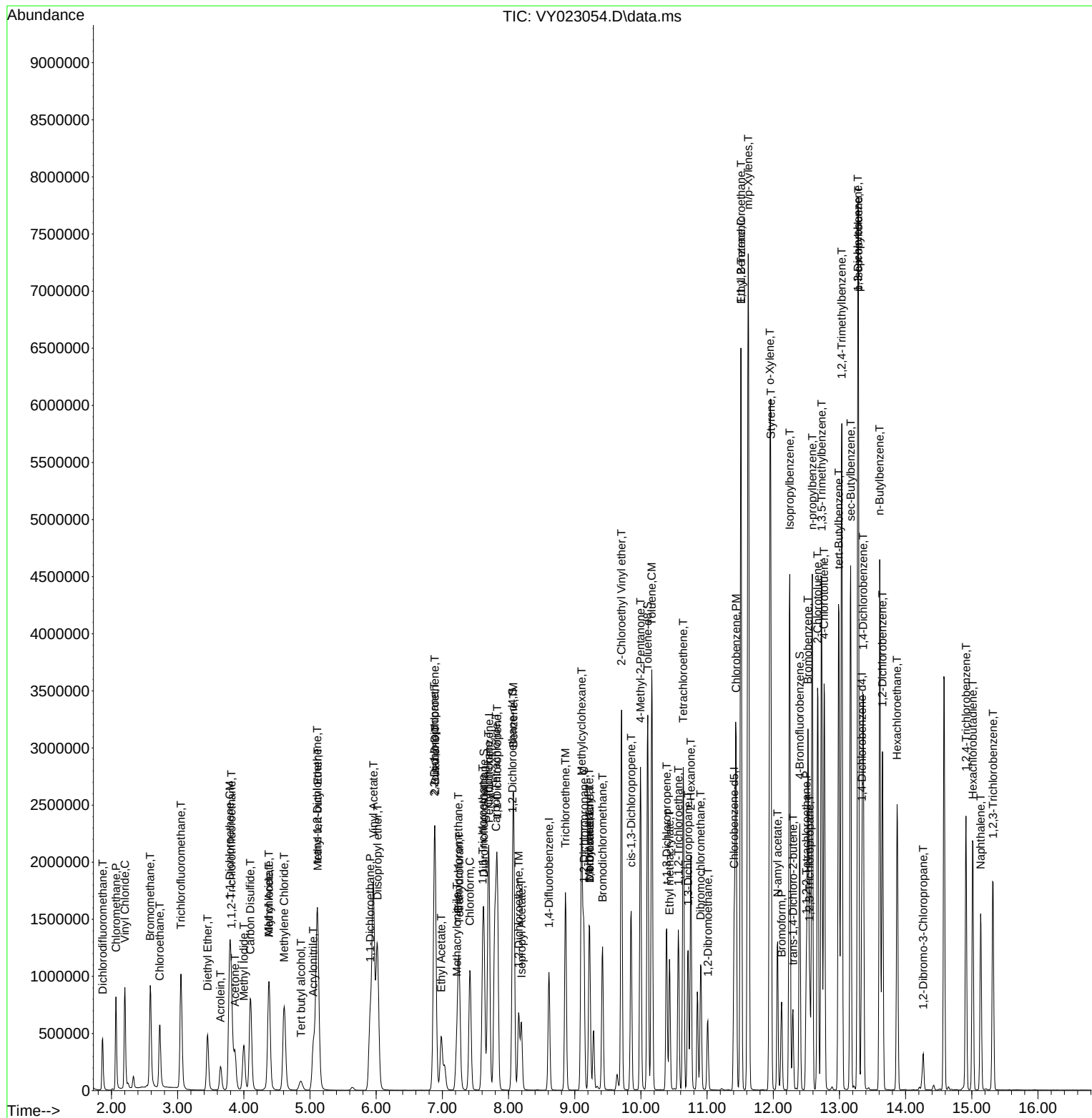
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023055.D
 Acq On : 12 Aug 2025 16:47
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 08/14/2025
 Supervised By : Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	538712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	844092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	756365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	389949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	746936	145.480	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 290.960%#			
35) Dibromofluoromethane	7.628	113	771944	152.837	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 305.680%#			
50) Toluene-d8	10.103	98	3003834	152.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 304.480%#			
62) 4-Bromofluorobenzene	12.402	95	998318	157.326	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 314.660%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.861	85	571723	130.017	ug/l	98
3) Chloromethane	2.062	50	991215	139.173	ug/l	99
4) Vinyl Chloride	2.202	62	1238646	140.692	ug/l	99
5) Bromomethane	2.580	94	938717	142.770	ug/l	100
6) Chloroethane	2.720	64	834547	142.581	ug/l	100
7) Trichlorofluoromethane	3.043	101	1574213	147.051	ug/l	99
8) Diethyl Ether	3.446	74	426242	150.496	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.806	101	763053	144.479	ug/l	99
10) Methyl Iodide	3.995	142	909378	159.567	ug/l	100
11) Tert butyl alcohol	4.860	59	265243	753.967	ug/l	100
12) 1,1-Dichloroethene	3.781	96	768098	147.960	ug/l	95
13) Acrolein	3.647	56	374594	727.070	ug/l	98
14) Allyl chloride	4.372	41	1151194	150.707	ug/l	99
15) Acrylonitrile	5.049	53	883293	767.115	ug/l	99
16) Acetone	3.866	43	777658	699.133	ug/l	100
17) Carbon Disulfide	4.098	76	2426564	143.357	ug/l	99
18) Methyl Acetate	4.379	43	500151	151.100	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	2113920	157.144	ug/l	99
20) Methylene Chloride	4.604	84	846955	152.064	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	889517	152.474	ug/l	97
22) Diisopropyl ether	6.012	45	2594499	156.307	ug/l	99
23) Vinyl Acetate	5.951	43	7267824	791.851	ug/l	99
24) 1,1-Dichloroethane	5.909	63	1527663	150.534	ug/l	99
25) 2-Butanone	6.890	43	1144112	756.289	ug/l	97
26) 2,2-Dichloropropane	6.878	77	1293043	147.663	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	1047717	155.348	ug/l	98
28) Bromochloromethane	7.238	49	599841	148.984	ug/l	98
29) Tetrahydrofuran	7.256	42	734408	783.186	ug/l	99
30) Chloroform	7.415	83	1585686	151.505	ug/l	95
31) Cyclohexane	7.695	56	1354021	141.586	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	1396470	150.372	ug/l	100
36) 1,1-Dichloropropene	7.829	75	1132306	150.850	ug/l	99
37) Ethyl Acetate	6.982	43	494371	156.788	ug/l	99
38) Carbon Tetrachloride	7.811	117	1226800	150.478	ug/l	96
39) Methylcyclohexane	9.103	83	1556004	157.417	ug/l	98
40) Benzene	8.073	78	3533174	152.720	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023055.D
 Acq On : 12 Aug 2025 16:47
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 01:46:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.213	41	261721	143.669	ug/l	90
42) 1,2-Dichloroethane	8.152	62	909030	151.078	ug/l	100
43) Isopropyl Acetate	8.195	43	1029854	161.596	ug/l	98
44) Trichloroethene	8.860	130	909510	152.126	ug/l	94
45) 1,2-Dichloropropane	9.134	63	822035	154.426	ug/l	99
46) Dibromomethane	9.225	93	480162	157.156	ug/l	100
47) Bromodichloromethane	9.420	83	1217658	154.884	ug/l	99
48) Methyl methacrylate	9.213	41	497527	163.144	ug/l	97
49) 1,4-Dioxane	9.225	88	117513	3280.235	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	2677587	814.509	ug/l	99
52) Toluene	10.164	92	2332797	158.762	ug/l	99
53) t-1,3-Dichloropropene	10.390	75	1162952	163.355	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	1366797	162.359	ug/l	99
55) 1,1,2-Trichloroethane	10.567	97	642236	157.090	ug/l	98
56) Ethyl methacrylate	10.432	69	908662	173.693	ug/l	100
57) 1,3-Dichloropropane	10.713	76	1087297	156.818	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	2167815	878.488	ug/l	99
59) 2-Hexanone	10.756	43	1848093	825.606	ug/l	100
60) Dibromochloromethane	10.908	129	860181	159.454	ug/l	99
61) 1,2-Dibromoethane	11.012	107	613069	159.546	ug/l	99
64) Tetrachloroethene	10.640	164	990664	146.682	ug/l	98
65) Chlorobenzene	11.438	112	2520874	154.514	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	871003	157.304	ug/l	99
67) Ethyl Benzene	11.511	91	4438665	158.093	ug/l	98
68) m/p-Xylenes	11.621	106	3511726	320.251	ug/l	96
69) o-Xylene	11.950	106	1683720	163.941	ug/l	100
70) Styrene	11.963	104	2846443	169.475	ug/l	99
71) Bromoform	12.127	173	523541	161.778	ug/l #	98
73) Isopropylbenzene	12.249	105	4269945	155.145	ug/l	99
74) N-amyl acetate	12.066	43	982090	168.265	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.499	83	717524	152.686	ug/l	100
76) 1,2,3-Trichloropropane	12.548	75	519276m	137.890	ug/l	
77) Bromobenzene	12.523	156	1021449	155.568	ug/l	99
78) n-propylbenzene	12.591	91	5048012	154.058	ug/l	99
79) 2-Chlorotoluene	12.676	91	2878647	153.331	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	3469329	155.973	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	245958	158.203	ug/l	97
82) 4-Chlorotoluene	12.773	91	2981042	153.063	ug/l	99
83) tert-Butylbenzene	12.993	119	3161475	157.371	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	3501626	158.143	ug/l	100
85) sec-Butylbenzene	13.170	105	4541629	153.897	ug/l	99
86) p-Isopropyltoluene	13.286	119	3918969	159.987	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	2049060	158.251	ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	1941716	151.172	ug/l	98
89) n-Butylbenzene	13.609	91	3578272	159.048	ug/l	100
90) Hexachloroethane	13.871	117	772603	154.073	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	1754100	154.469	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	114505	156.498	ug/l	96
93) 1,2,4-Trichlorobenzene	14.913	180	1117401	166.397	ug/l	98
94) Hexachlorobutadiene	15.017	225	589351	149.352	ug/l	99
95) Naphthalene	15.139	128	2094983	182.954	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	975366	168.557	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023055.D
 Acq On : 12 Aug 2025 16:47
 Operator : SY/MD
 Sample : VSTDIC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By : Mahesh Dadoda 08/14/2025
 Supervised By : Semsettin Yesilyurt 08/14/2025

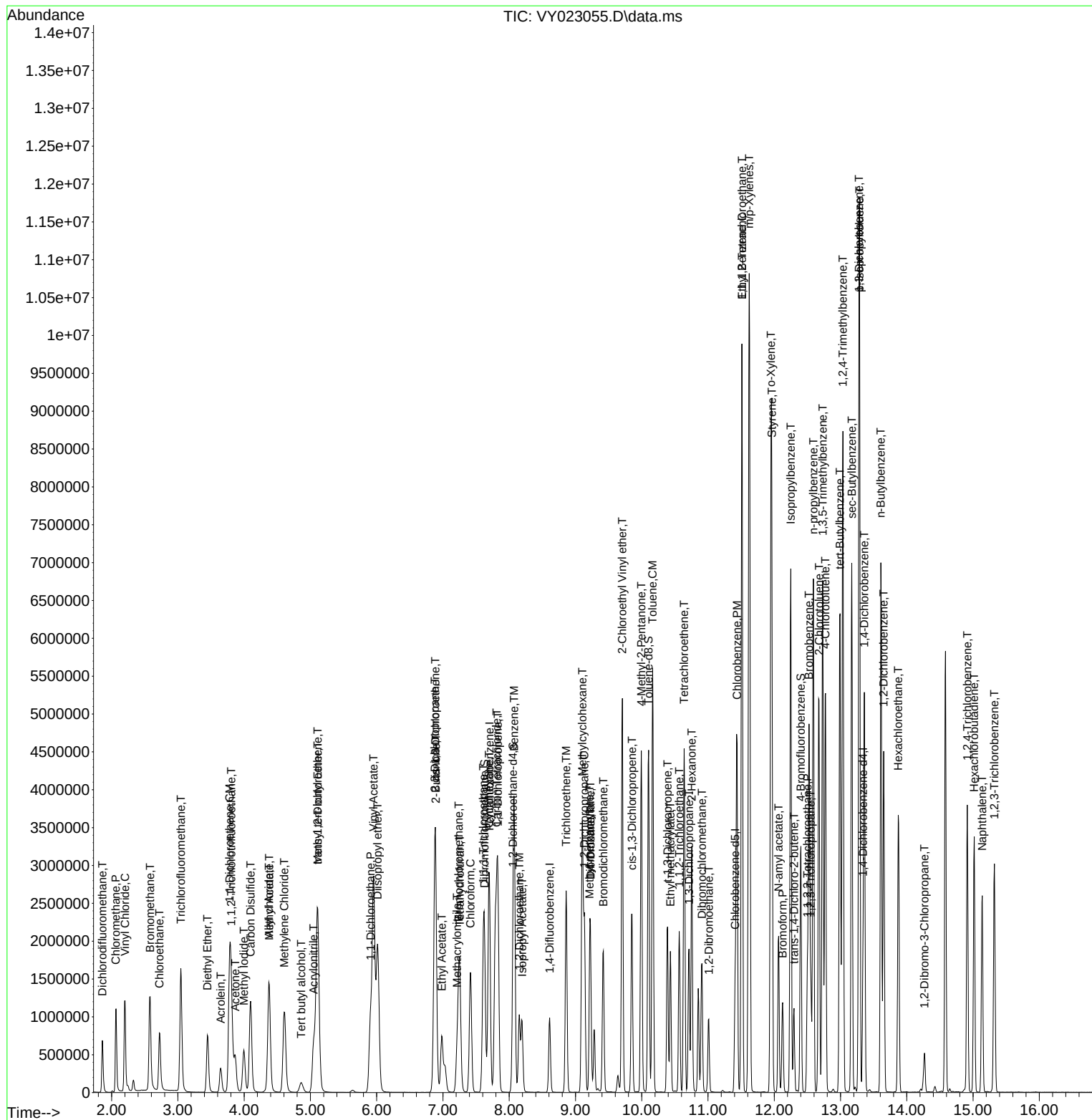
Quant Time: Aug 13 01:55:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 13 01:46:43 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	528657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	849851	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	756555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	376990	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	252116	50.038	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.080%			
35) Dibromofluoromethane	7.628	113	255171	50.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.360%			
50) Toluene-d8	10.103	98	979510	49.306	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.402	95	329022	51.500	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.000%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	179421	41.579	ug/l	99
3) Chloromethane	2.068	50	340600	48.732	ug/l	100
4) Vinyl Chloride	2.202	62	416413	48.198	ug/l	99
5) Bromomethane	2.592	94	303147	46.983	ug/l	98
6) Chloroethane	2.733	64	281008	48.923	ug/l	99
7) Trichlorofluoromethane	3.050	101	493782	47.003	ug/l	100
8) Diethyl Ether	3.452	74	132818	47.787	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	247351	47.725	ug/l	99
10) Methyl Iodide	4.001	142	287126	51.340	ug/l	99
11) Tert butyl alcohol	4.860	59	84906	245.940	ug/l	98
12) 1,1-Dichloroethene	3.787	96	242931	47.686	ug/l	95
13) Acrolein	3.647	56	112246	222.008	ug/l	98
14) Allyl chloride	4.379	41	354691	47.317	ug/l	99
15) Acrylonitrile	5.055	53	274329	242.779	ug/l	99
16) Acetone	3.867	43	229985	210.695	ug/l	96
17) Carbon Disulfide	4.104	76	779852	46.948	ug/l	99
18) Methyl Acetate	4.385	43	168821	51.972	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	658713	49.899	ug/l	100
20) Methylene Chloride	4.610	84	283386	49.960	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	279182	48.765	ug/l	98
22) Diisopropyl ether	6.019	45	814622	50.011	ug/l	97
23) Vinyl Acetate	5.958	43	2182924	242.360	ug/l	100
24) 1,1-Dichloroethane	5.915	63	483509	48.551	ug/l	100
25) 2-Butanone	6.890	43	341490	230.028	ug/l	99
26) 2,2-Dichloropropane	6.884	77	390777	45.475	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	322451	48.720	ug/l	99
28) Bromochloromethane	7.238	49	198640	50.275	ug/l	100
29) Tetrahydrofuran	7.262	42	227680	247.420	ug/l	100
30) Chloroform	7.421	83	497627	48.450	ug/l	97
31) Cyclohexane	7.695	56	436638	46.526	ug/l	98
32) 1,1,1-Trichloroethane	7.610	97	445943	48.933	ug/l	100
36) 1,1-Dichloropropene	7.829	75	364210	48.193	ug/l	99
37) Ethyl Acetate	6.982	43	157530	49.621	ug/l	99
38) Carbon Tetrachloride	7.817	117	394245	48.030	ug/l	99
39) Methylcyclohexane	9.103	83	493867	49.625	ug/l	98
40) Benzene	8.073	78	1128023	48.428	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	88437	48.269	ug/l	99
42) 1,2-Dichloroethane	8.152	62	291766	48.162	ug/l	100
43) Isopropyl Acetate	8.195	43	315013	49.094	ug/l	98
44) Trichloroethene	8.860	130	287745	47.803	ug/l	95
45) 1,2-Dichloropropane	9.140	63	262408	48.961	ug/l	98
46) Dibromomethane	9.225	93	149745	48.679	ug/l	99
47) Bromodichloromethane	9.420	83	391522	49.463	ug/l	98
48) Methyl methacrylate	9.219	41	155118	50.520	ug/l	99
49) 1,4-Dioxane	9.225	88	35050	971.749	ug/l	98
51) 4-Methyl-2-Pentanone	9.993	43	823949	248.943	ug/l	99
52) Toluene	10.164	92	724356	48.963	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	356228	49.699	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	415017	48.965	ug/l	97
55) 1,1,2-Trichloroethane	10.567	97	201146	48.867	ug/l	98
56) Ethyl methacrylate	10.432	69	267458	50.779	ug/l	99
57) 1,3-Dichloropropane	10.713	76	343649	49.228	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	678865	273.240	ug/l	100
59) 2-Hexanone	10.756	43	551743	244.812	ug/l	99
60) Dibromochloromethane	10.908	129	270536	49.810	ug/l	99
61) 1,2-Dibromoethane	11.012	107	190334	49.197	ug/l	100
64) Tetrachloroethene	10.640	164	307456	45.512	ug/l	98
65) Chlorobenzene	11.438	112	787799	48.275	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.512	131	270360	48.815	ug/l	99
67) Ethyl Benzene	11.512	91	1380648	49.163	ug/l	100
68) m/p-Xylenes	11.621	106	1080541	98.515	ug/l	99
69) o-Xylene	11.950	106	509991	49.645	ug/l	99
70) Styrene	11.963	104	852310	50.733	ug/l	99
71) Bromoform	12.127	173	157073	48.525	ug/l #	98
73) Isopropylbenzene	12.249	105	1327070	49.876	ug/l	100
74) N-amyl acetate	12.066	43	285118	50.529	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.499	83	224206	49.350	ug/l	98
76) 1,2,3-Trichloropropane	12.548	75	167859m	46.136	ug/l	
77) Bromobenzene	12.524	156	311065	49.004	ug/l	99
78) n-propylbenzene	12.591	91	1610911	50.853	ug/l	100
79) 2-Chlorotoluene	12.676	91	905657	49.898	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1094902	50.916	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	74263	49.409	ug/l	98
82) 4-Chlorotoluene	12.774	91	932114	49.505	ug/l	100
83) tert-Butylbenzene	12.993	119	979692	50.443	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	1092616	51.042	ug/l	100
85) sec-Butylbenzene	13.170	105	1459437	51.154	ug/l	100
86) p-Isopropyltoluene	13.286	119	1222900	51.639	ug/l	100
87) 1,3-Dichlorobenzene	13.280	146	621371	49.639	ug/l	98
88) 1,4-Dichlorobenzene	13.359	146	602429	48.514	ug/l	99
89) n-Butylbenzene	13.609	91	1122189	51.594	ug/l	100
90) Hexachloroethane	13.871	117	245386	50.617	ug/l	99
91) 1,2-Dichlorobenzene	13.651	146	540506	49.234	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	35428	50.085	ug/l	98
93) 1,2,4-Trichlorobenzene	14.913	180	320472	49.363	ug/l	99
94) Hexachlorobutadiene	15.017	225	184430	48.344	ug/l	99
95) Naphthalene	15.139	128	571480	51.623	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	272638	48.735	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

ICVVY081225

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
 Supervised By :Semsettin Yesilyurt 08/14/2025

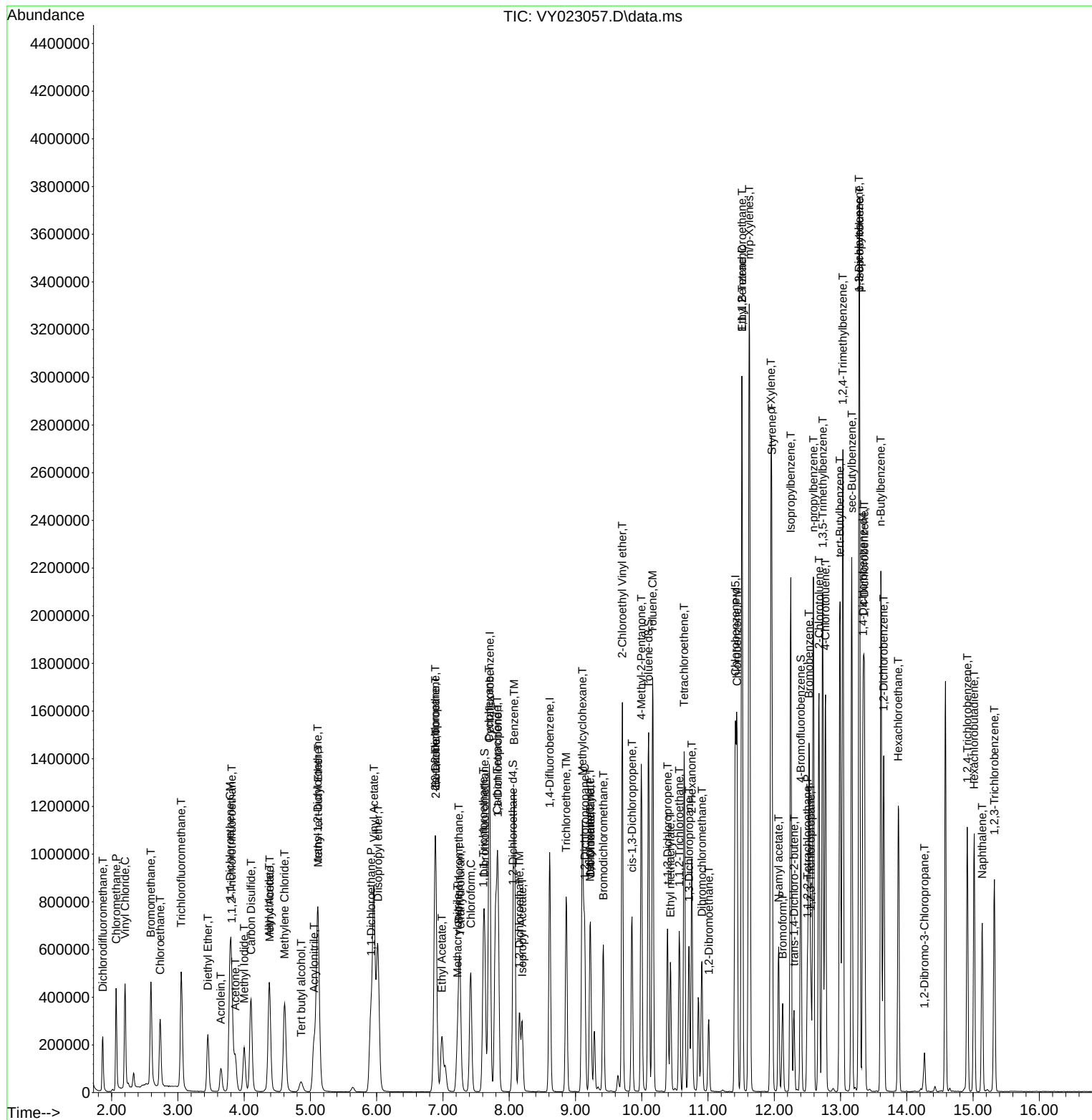
Quant Time: Aug 13 02:14:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 13 02:10:11 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	0.408	0.339	16.9	96	0.00
3 P	Chloromethane	0.661	0.644	2.6	104	0.00
4 C	Vinyl Chloride	0.817	0.788	3.5#	100	0.00
5 T	Bromomethane	0.610	0.573	6.1	104	0.00
6 T	Chloroethane	0.543	0.532	2.0	101	0.00
7 T	Trichlorofluoromethane	0.994	0.934	6.0	98	0.00
8 T	Diethyl Ether	0.263	0.251	4.6	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.490	0.468	4.5	99	0.00
10 T	Methyl Iodide	0.529	0.543	-2.6	97	0.00
11 T	Tert butyl alcohol	0.033	0.032	3.0	99	0.00
12 CM	1,1-Dichloroethene	0.482	0.460	4.6#	97	0.00
13 T	Acrolein	0.048	0.042	12.5	93	0.00
14 T	Allyl chloride	0.709	0.671	5.4	96	0.00
15 T	Acrylonitrile	0.107	0.104	2.8	96	0.00
16 T	Acetone	0.103	0.087	15.5	83	0.00
17 T	Carbon Disulfide	1.571	1.475	6.1	97	0.00
18 T	Methyl Acetate	0.307	0.319	-3.9	97	0.00
19 T	Methyl tert-butyl Ether	1.249	1.246	0.2	99	0.00
20 T	Methylene Chloride	0.620	0.536	13.5	103	0.00
21 T	trans-1,2-Dichloroethene	0.541	0.528	2.4	99	0.00
22 T	Diisopropyl ether	1.541	1.541	0.0	100	0.00
23 T	Vinyl Acetate	0.852	0.826	3.1	96	0.00
24 P	1,1-Dichloroethane	0.942	0.915	2.9	98	0.00
25 T	2-Butanone	0.140	0.129	7.9	89	0.00
26 T	2,2-Dichloropropane	0.813	0.739	9.1	92	0.00
27 T	cis-1,2-Dichloroethene	0.626	0.610	2.6	99	0.00
28 T	Bromochloromethane	0.374	0.376	-0.5	101	0.00
29 T	Tetrahydrofuran	0.087	0.086	1.1	97	0.00
30 C	Chloroform	0.971	0.941	3.1#	98	0.00
31 T	Cyclohexane	0.888	0.826	7.0	99	0.00
32 T	1,1,1-Trichloroethane	0.862	0.844	2.1	99	0.00
33 S	1,2-Dichloroethane-d4	0.477	0.477	0.0	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35 S	Dibromofluoromethane	0.299	0.300	-0.3	102	0.00
36 T	1,1-Dichloropropene	0.445	0.429	3.6	98	0.00
37 T	Ethyl Acetate	0.187	0.185	1.1	98	0.00
38 T	Carbon Tetrachloride	0.483	0.464	3.9	99	0.00
39 T	Methylcyclohexane	0.586	0.581	0.9	102	0.00
40 TM	Benzene	1.370	1.327	3.1	99	0.00
41 T	Methacrylonitrile	0.108	0.104	3.7	94	0.00
42 TM	1,2-Dichloroethane	0.356	0.343	3.7	98	0.00
43 T	Isopropyl Acetate	0.378	0.371	1.9	99	0.00
44 TM	Trichloroethene	0.354	0.339	4.2	98	0.00
45 C	1,2-Dichloropropane	0.315	0.309	1.9#	99	0.00
46 T	Dibromomethane	0.181	0.176	2.8	98	0.00
47 T	Bromodichloromethane	0.466	0.461	1.1	99	0.00
48 T	Methyl methacrylate	0.181	0.183	-1.1	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	97	0.00
50 S	Toluene-d8	1.169	1.153	1.4	100	0.00
51 T	4-Methyl-2-Pentanone	0.195	0.194	0.5	97	0.00
52 CM	Toluene	0.870	0.852	2.1#	99	0.00
53 T	t-1,3-Dichloropropene	0.422	0.419	0.7	99	0.00
54 T	cis-1,3-Dichloropropene	0.499	0.488	2.2	98	0.00
55 T	1,1,2-Trichloroethane	0.242	0.237	2.1	98	0.00
56 T	Ethyl methacrylate	0.310	0.315	-1.6	98	0.00
57 T	1,3-Dichloropropane	0.411	0.404	1.7	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.146	0.160	-9.6	102	0.00
59 T	2-Hexanone	0.133	0.130	2.3	94	0.00
60 T	Dibromochloromethane	0.320	0.318	0.6	99	0.00
61 T	1,2-Dibromoethane	0.228	0.224	1.8	98	0.00
62 S	4-Bromofluorobenzene	0.376	0.387	-2.9	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.446	0.406	9.0	94	0.00
65 PM	Chlorobenzene	1.079	1.041	3.5	99	0.00
66 T	1,1,1,2-Tetrachloroethane	0.366	0.357	2.5	99	0.00
67 C	Ethyl Benzene	1.856	1.825	1.7#	99	0.00
68 T	m/p-Xylenes	0.725	0.714	1.5	100	0.00
69 T	o-Xylene	0.679	0.674	0.7	99	0.00
70 T	Styrene	1.110	1.127	-1.5	101	0.00
71 P	Bromoform	0.214	0.208	2.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73 T	Isopropylbenzene	3.529	3.520	0.3	100	0.00
74 T	N-amyl acetate	0.748	0.756	-1.1	98	0.00
75 P	1,1,2,2-Tetrachloroethane	0.603	0.595	1.3	102	0.00
76 T	1,2,3-Trichloropropane	0.483	0.445	7.9	83	0.00
77 T	Bromobenzene	0.842	0.825	2.0	99	0.00
78 T	n-propylbenzene	4.201	4.273	-1.7	101	0.00
79 T	2-Chlorotoluene	2.407	2.402	0.2	101	0.00
80 T	1,3,5-Trimethylbenzene	2.852	2.904	-1.8	101	0.00
81 T	trans-1,4-Dichloro-2-butene	0.199	0.197	1.0	100	0.00
82 T	4-Chlorotoluene	2.497	2.473	1.0	100	0.00
83 T	tert-Butylbenzene	2.576	2.599	-0.9	100	0.00
84 T	1,2,4-Trimethylbenzene	2.839	2.898	-2.1	102	0.00
85 T	sec-Butylbenzene	3.784	3.871	-2.3	102	0.00
86 T	p-Isopropyltoluene	3.141	3.244	-3.3	102	0.00
87 T	1,3-Dichlorobenzene	1.660	1.648	0.7	102	0.00
88 T	1,4-Dichlorobenzene	1.647	1.598	3.0	100	0.00
89 T	n-Butylbenzene	2.885	2.977	-3.2	102	0.00
90 T	Hexachloroethane	0.643	0.651	-1.2	103	0.00
91 T	1,2-Dichlorobenzene	1.456	1.434	1.5	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.094	0.094	0.0	99	0.00
93 T	1,2,4-Trichlorobenzene	0.861	0.850	1.3	100	0.00
94 T	Hexachlorobutadiene	0.506	0.489	3.4	99	0.00
95 T	Naphthalene	1.468	1.516	-3.3	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.723	2.6	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	50.000	41.579	16.8	96	0.00
3 P	Chloromethane	50.000	48.732	2.5	104	0.00
4 C	Vinyl Chloride	50.000	48.198	3.6#	100	0.00
5 T	Bromomethane	50.000	46.983	6.0	104	0.00
6 T	Chloroethane	50.000	48.923	2.2	101	0.00
7 T	Trichlorofluoromethane	50.000	47.003	6.0	98	0.00
8 T	Diethyl Ether	50.000	47.787	4.4	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.725	4.5	99	0.00
10 T	Methyl Iodide	50.000	51.340	-2.7	97	0.00
11 T	Tert butyl alcohol	250.000	245.940	1.6	99	0.00
12 CM	1,1-Dichloroethene	50.000	47.686	4.6#	97	0.00
13 T	Acrolein	250.000	222.008	11.2	93	0.00
14 T	Allyl chloride	50.000	47.317	5.4	96	0.00
15 T	Acrylonitrile	250.000	242.779	2.9	96	0.00
16 T	Acetone	250.000	210.695	15.7	83	0.00
17 T	Carbon Disulfide	50.000	46.948	6.1	97	0.00
18 T	Methyl Acetate	50.000	51.972	-3.9	97	0.00
19 T	Methyl tert-butyl Ether	50.000	49.899	0.2	99	0.00
20 T	Methylene Chloride	50.000	49.960	0.1	103	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.765	2.5	99	0.00
22 T	Diisopropyl ether	50.000	50.011	-0.0	100	0.00
23 T	Vinyl Acetate	250.000	242.360	3.1	96	0.00
24 P	1,1-Dichloroethane	50.000	48.551	2.9	98	0.00
25 T	2-Butanone	250.000	230.028	8.0	89	0.00
26 T	2,2-Dichloropropane	50.000	45.475	9.0	92	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.720	2.6	99	0.00
28 T	Bromochloromethane	50.000	50.275	-0.5	101	0.00
29 T	Tetrahydrofuran	250.000	247.420	1.0	97	0.00
30 C	Chloroform	50.000	48.450	3.1#	98	0.00
31 T	Cyclohexane	50.000	46.526	6.9	99	0.00
32 T	1,1,1-Trichloroethane	50.000	48.933	2.1	99	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.038	-0.1	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35 S	Dibromofluoromethane	50.000	50.179	-0.4	102	0.00
36 T	1,1-Dichloropropene	50.000	48.193	3.6	98	0.00
37 T	Ethyl Acetate	50.000	49.621	0.8	98	0.00
38 T	Carbon Tetrachloride	50.000	48.030	3.9	99	0.00
39 T	Methylcyclohexane	50.000	49.625	0.8	102	0.00
40 TM	Benzene	50.000	48.428	3.1	99	0.00
41 T	Methacrylonitrile	50.000	48.269	3.5	94	0.00
42 TM	1,2-Dichloroethane	50.000	48.162	3.7	98	0.00
43 T	Isopropyl Acetate	50.000	49.094	1.8	99	0.00
44 TM	Trichloroethene	50.000	47.803	4.4	98	0.00
45 C	1,2-Dichloropropane	50.000	48.961	2.1#	99	0.00
46 T	Dibromomethane	50.000	48.679	2.6	98	0.00
47 T	Bromodichloromethane	50.000	49.463	1.1	99	0.00
48 T	Methyl methacrylate	50.000	50.520	-1.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
 Data File : VY023057.D
 Acq On : 12 Aug 2025 17:53
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICSVY081225

Quant Time: Aug 13 02:14:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	971.749	2.8	97	0.00
50 S	Toluene-d8	50.000	49.306	1.4	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	248.943	0.4	97	0.00
52 CM	Toluene	50.000	48.963	2.1#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	49.699	0.6	99	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.965	2.1	98	0.00
55 T	1,1,2-Trichloroethane	50.000	48.867	2.3	98	0.00
56 T	Ethyl methacrylate	50.000	50.779	-1.6	98	0.00
57 T	1,3-Dichloropropane	50.000	49.228	1.5	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	273.240	-9.3	102	0.00
59 T	2-Hexanone	250.000	244.812	2.1	94	0.00
60 T	Dibromochloromethane	50.000	49.810	0.4	99	0.00
61 T	1,2-Dibromoethane	50.000	49.197	1.6	98	0.00
62 S	4-Bromofluorobenzene	50.000	51.500	-3.0	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	45.512	9.0	94	0.00
65 PM	Chlorobenzene	50.000	48.275	3.5	99	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.815	2.4	99	0.00
67 C	Ethyl Benzene	50.000	49.163	1.7#	99	0.00
68 T	m/p-Xylenes	100.000	98.515	1.5	100	0.00
69 T	o-Xylene	50.000	49.645	0.7	99	0.00
70 T	Styrene	50.000	50.733	-1.5	101	0.00
71 P	Bromoform	50.000	48.525	3.0	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73 T	Isopropylbenzene	50.000	49.876	0.2	100	0.00
74 T	N-amyl acetate	50.000	50.529	-1.1	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.350	1.3	102	0.00
76 T	1,2,3-Trichloropropane	50.000	46.136	7.7	83	0.00
77 T	Bromobenzene	50.000	49.004	2.0	99	0.00
78 T	n-propylbenzene	50.000	50.853	-1.7	101	0.00
79 T	2-Chlorotoluene	50.000	49.898	0.2	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.916	-1.8	101	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.409	1.2	100	0.00
82 T	4-Chlorotoluene	50.000	49.505	1.0	100	0.00
83 T	tert-Butylbenzene	50.000	50.443	-0.9	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.042	-2.1	102	0.00
85 T	sec-Butylbenzene	50.000	51.154	-2.3	102	0.00
86 T	p-Isopropyltoluene	50.000	51.639	-3.3	102	0.00
87 T	1,3-Dichlorobenzene	50.000	49.639	0.7	102	0.00
88 T	1,4-Dichlorobenzene	50.000	48.514	3.0	100	0.00
89 T	n-Butylbenzene	50.000	51.594	-3.2	102	0.00
90 T	Hexachloroethane	50.000	50.617	-1.2	103	0.00
91 T	1,2-Dichlorobenzene	50.000	49.234	1.5	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.085	-0.2	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.363	1.3	100	0.00
94 T	Hexachlorobutadiene	50.000	48.344	3.3	99	0.00
95 T	Naphthalene	50.000	51.623	-3.2	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.735	2.5	100	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2964</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>08/28/2025 11:33</u>
Lab File ID:	<u>VN087676.D</u>	Init. Calib. Date(s):	<u>08/21/2025 08/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:09 14:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.710	0.787		10.85	20
Chloromethane	0.730	0.784	0.1	7.4	20
Vinyl Chloride	0.846	0.895		5.79	20
Bromomethane	0.437	0.445		1.83	20
Chloroethane	0.595	0.615		3.36	20
Trichlorofluoromethane	1.240	1.363		9.92	20
1,1,2-Trichlorotrifluoroethane	0.701	0.722		3	20
1,1-Dichloroethene	0.721	0.723		0.28	20
Acetone	0.558	0.490		-12.19	20
Carbon Disulfide	1.985	1.917		-3.43	20
Methyl tert-butyl Ether	2.704	2.738		1.26	20
Methyl Acetate	1.168	1.310		12.16	20
Methylene Chloride	0.948	0.824		-13.08	20
trans-1,2-Dichloroethene	0.781	0.749		-4.1	20
1,1-Dichloroethane	1.546	1.521	0.1	-1.62	20
Cyclohexane	1.289	1.258		-2.4	20
2-Butanone	0.734	0.708		-3.54	20
Carbon Tetrachloride	0.547	0.582		6.4	20
cis-1,2-Dichloroethene	0.934	0.914		-2.14	20
Bromochloromethane	0.747	0.756		1.21	20
Chloroform	1.578	1.618		2.54	20
1,1,1-Trichloroethane	1.337	1.361		1.79	20
Methylcyclohexane	0.610	0.595		-2.46	20
Benzene	1.699	1.741		2.47	20
1,2-Dichloroethane	0.653	0.669		2.45	20
Trichloroethene	0.388	0.381		-1.8	20
1,2-Dichloropropane	0.448	0.442		-1.34	20
Bromodichloromethane	0.653	0.672		2.91	20
4-Methyl-2-Pentanone	0.713	0.762		6.87	20
Toluene	1.053	1.088		3.32	20
t-1,3-Dichloropropene	0.676	0.619		-8.43	20
cis-1,3-Dichloropropene	0.702	0.647		-7.84	20
1,1,2-Trichloroethane	0.407	0.421		3.44	20
2-Hexanone	0.451	0.516		14.41	20
Dibromochloromethane	0.472	0.483		2.33	20
1,2-Dibromoethane	0.430	0.437		1.63	20
Tetrachloroethene	0.347	0.359		3.46	20
Chlorobenzene	1.244	1.243	0.3	-0.08	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2964</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>08/28/2025 11:33</u>
Lab File ID:	<u>VN087676.D</u>	Init. Calib. Date(s):	<u>08/21/2025 08/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:09 14:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.154	2.227		3.39	20
m/p-Xylenes	0.790	0.822		4.05	20
o-Xylene	0.774	0.802		3.62	20
Styrene	1.297	1.409		8.64	20
Bromoform	0.317	0.333	0.1	5.05	20
Isopropylbenzene	4.040	4.142		2.53	20
1,1,2,2-Tetrachloroethane	1.391	1.429	0.3	2.73	20
1,3-Dichlorobenzene	1.876	1.887		0.59	20
1,4-Dichlorobenzene	1.952	1.924		-1.43	20
1,2-Dichlorobenzene	1.780	1.815		1.97	20
1,2-Dibromo-3-Chloropropane	0.330	0.323		-2.12	20
1,2,4-Trichlorobenzene	1.069	1.042		-2.53	20
1,2,3-Trichlorobenzene	1.045	1.021		-2.3	20
1,2-Dichloroethane-d4	1.024	1.110		8.4	20
Dibromofluoromethane	0.361	0.399		10.53	20
Toluene-d8	1.351	1.482		9.7	20
4-Bromofluorobenzene	0.481	0.534		11.02	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087676.D
 Acq On : 28 Aug 2025 11:33
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/29/2025
 Supervised By : Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	200815	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	393512	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	367312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	185443	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	222988	54.196	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.400%			
35) Dibromofluoromethane	8.147	113	156925	55.233	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.460%			
50) Toluene-d8	10.541	98	583324	54.855	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.720%			
62) 4-Bromofluorobenzene	12.829	95	210198	55.582	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.160%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	158108	55.435	ug/l	95
3) Chloromethane	2.383	50	157396	53.699	ug/l	98
4) Vinyl Chloride	2.536	62	179683	52.872	ug/l	98
5) Bromomethane	2.971	94	89371	50.966	ug/l	97
6) Chloroethane	3.130	64	123483	51.697	ug/l	97
7) Trichlorofluoromethane	3.507	101	273675	54.965	ug/l	98
8) Diethyl Ether	3.959	74	107015	49.351	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	144936	51.443	ug/l	98
10) Methyl Iodide	4.571	142	82113	40.497	ug/l	98
11) Tert butyl alcohol	5.518	59	171975	240.765	ug/l	100
12) 1,1-Dichloroethene	4.330	96	145235	50.163	ug/l	95
13) Acrolein	4.177	56	227887	259.517	ug/l	99
14) Allyl chloride	5.006	41	217499	41.455	ug/l	94
15) Acrylonitrile	5.701	53	503150	249.769	ug/l	99
16) Acetone	4.418	43	491566	219.470	ug/l	100
17) Carbon Disulfide	4.701	76	385041	48.308	ug/l	97
18) Methyl Acetate	5.018	43	263020	56.085	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	549898	50.629	ug/l	96
20) Methylene Chloride	5.259	84	165393	51.079	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	150429	47.940	ug/l	93
22) Diisopropyl ether	6.659	45	588143	51.946	ug/l	97
23) Vinyl Acetate	6.589	43	2553306	247.874	ug/l	100
24) 1,1-Dichloroethane	6.553	63	305398	49.195	ug/l	97
25) 2-Butanone	7.465	43	710465	241.104	ug/l	98
26) 2,2-Dichloropropane	7.471	77	124906	23.443	ug/l	93
27) cis-1,2-Dichloroethene	7.471	96	183644	48.956	ug/l	97
28) Bromochloromethane	7.794	49	151748	50.563	ug/l	100
29) Tetrahydrofuran	7.824	42	480840	253.557	ug/l	98
30) Chloroform	7.947	83	324876	51.272	ug/l	99
31) Cyclohexane	8.236	56	252621	48.814	ug/l	97
32) 1,1,1-Trichloroethane	8.147	97	273237	50.884	ug/l	98
36) 1,1-Dichloropropene	8.353	75	215696	49.487	ug/l	99
37) Ethyl Acetate	7.547	43	290413	48.759	ug/l	98
38) Carbon Tetrachloride	8.342	117	228899	53.190	ug/l	93
39) Methylcyclohexane	9.583	83	233948	48.753	ug/l	93
40) Benzene	8.589	78	684914	51.233	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087676.D
 Acq On : 28 Aug 2025 11:33
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/29/2025
 Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	154717	50.147	ug/l	99
42) 1,2-Dichloroethane	8.647	62	263313	51.255	ug/l	98
43) Isopropyl Acetate	8.671	43	476217	51.212	ug/l	99
44) Trichloroethene	9.330	130	150098	49.177	ug/l	93
45) 1,2-Dichloropropane	9.600	63	173951	49.364	ug/l	97
46) Dibromomethane	9.688	93	129455	51.624	ug/l	100
47) Bromodichloromethane	9.865	83	264350	51.437	ug/l	97
48) Methyl methacrylate	9.659	41	226591	51.516	ug/l	98
49) 1,4-Dioxane	9.677	88	61326	1075.707	ug/l #	97
51) 4-Methyl-2-Pentanone	10.424	43	1499897	267.341	ug/l	99
52) Toluene	10.606	92	427963	51.637	ug/l	98
53) t-1,3-Dichloropropene	10.812	75	243407	45.756	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	254431	46.063	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	165700	51.683	ug/l	97
56) Ethyl methacrylate	10.853	69	278715	54.397	ug/l	97
57) 1,3-Dichloropropane	11.141	76	299771	52.831	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	714693	257.710	ug/l	100
59) 2-Hexanone	11.177	43	1016103	286.566	ug/l	100
60) Dibromochloromethane	11.335	129	190216	51.204	ug/l	100
61) 1,2-Dibromoethane	11.447	107	172136	50.918	ug/l	100
64) Tetrachloroethene	11.083	164	131848	51.738	ug/l	93
65) Chlorobenzene	11.871	112	456729	49.980	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.935	131	161756	53.319	ug/l	99
67) Ethyl Benzene	11.941	91	817830	51.689	ug/l	99
68) m/p-Xylenes	12.047	106	604027	104.095	ug/l	98
69) o-Xylene	12.377	106	294498	51.788	ug/l	99
70) Styrene	12.388	104	517502	54.320	ug/l	99
71) Bromoform	12.559	173	122193	52.519	ug/l #	98
73) Isopropylbenzene	12.671	105	768116	51.259	ug/l	100
74) N-amyl acetate	12.494	43	274912m	48.410	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	264952	51.356	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	211262m	48.580	ug/l	
77) Bromobenzene	12.959	156	178089	50.404	ug/l	99
78) n-propylbenzene	13.012	91	957714	51.887	ug/l	100
79) 2-Chlorotoluene	13.100	91	573787	51.657	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	655962	51.601	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	66012	40.186	ug/l	86
82) 4-Chlorotoluene	13.200	91	584857	50.080	ug/l	97
83) tert-Butylbenzene	13.412	119	562477	53.098	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	674684	53.018	ug/l	100
85) sec-Butylbenzene	13.594	105	821536	52.260	ug/l	100
86) p-Isopropyltoluene	13.706	119	672819	51.831	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	349988	50.301	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	356790	49.275	ug/l	99
89) n-Butylbenzene	14.035	91	650921	50.490	ug/l	100
90) Hexachloroethane	14.312	117	135641	54.847	ug/l	100
91) 1,2-Dichlorobenzene	14.082	146	336552	50.985	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	59956	48.921	ug/l	97
93) 1,2,4-Trichlorobenzene	15.365	180	193202	48.741	ug/l	98
94) Hexachlorobutadiene	15.476	225	66276	46.900	ug/l	99
95) Naphthalene	15.612	128	702614	50.044	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	189286	48.847	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087676.D
Acq On : 28 Aug 2025 11:33
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:14:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

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

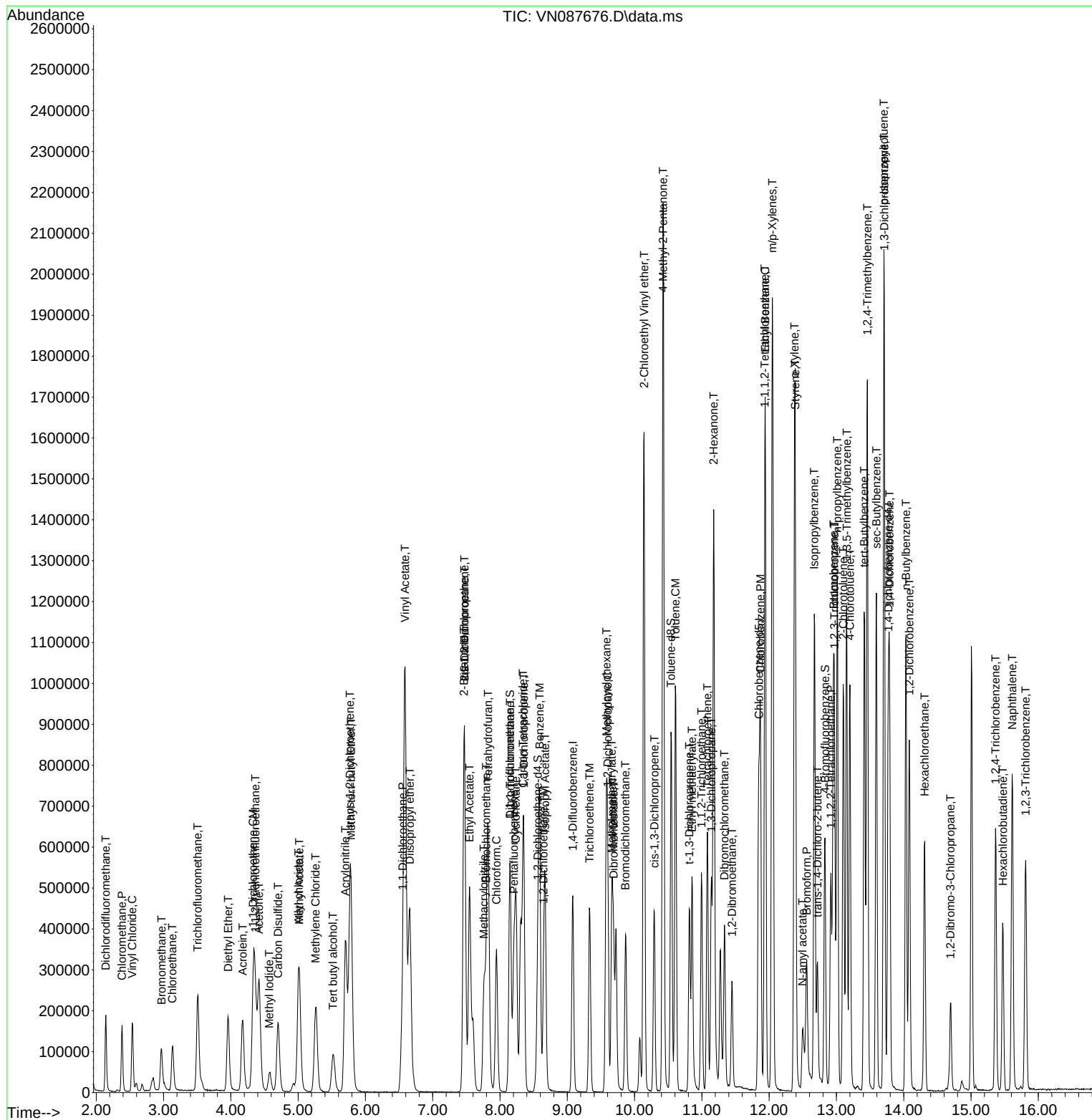
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087676.D
Acq On : 28 Aug 2025 11:33
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:14:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087676.D
 Acq On : 28 Aug 2025 11:33
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 03:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	86	0.00
2 T	Dichlorodifluoromethane	0.710	0.787	-10.8	83	0.00
3 P	Chloromethane	0.730	0.784	-7.4	84	0.00
4 C	Vinyl Chloride	0.846	0.895	-5.8#	85	0.00
5 T	Bromomethane	0.437	0.445	-1.8	85	0.00
6 T	Chloroethane	0.595	0.615	-3.4	87	0.00
7 T	Trichlorofluoromethane	1.240	1.363	-9.9	92	0.00
8 T	Diethyl Ether	0.540	0.533	1.3	86	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.701	0.722	-3.0	89	0.00
10 T	Methyl Iodide	0.450	0.409	9.1	73	0.00
11 T	Tert butyl alcohol	0.178	0.171	3.9	80	0.00
12 CM	1,1-Dichloroethene	0.721	0.723	-0.3#	88	0.00
13 T	Acrolein	0.219	0.227	-3.7	90	0.00
14 T	Allyl chloride	1.306	1.083	17.1	75	0.00
15 T	Acrylonitrile	0.502	0.501	0.2	86	0.00
16 T	Acetone	0.558	0.490	12.2	80	0.00
17 T	Carbon Disulfide	1.985	1.917	3.4	82	0.00
18 T	Methyl Acetate	1.168	1.310	-12.2	97	0.00
19 T	Methyl tert-butyl Ether	2.704	2.738	-1.3	86	0.00
20 T	Methylene Chloride	0.948	0.824	13.1	86	0.00
21 T	trans-1,2-Dichloroethene	0.781	0.749	4.1	85	0.00
22 T	Diisopropyl ether	2.819	2.929	-3.9	87	0.00
23 T	Vinyl Acetate	2.565	2.543	0.9	81	0.00
24 P	1,1-Dichloroethane	1.546	1.521	1.6	87	0.00
25 T	2-Butanone	0.734	0.708	3.5	83	0.00
26 T	2,2-Dichloropropane	1.327	0.622	53.1#	40#	0.00
27 T	cis-1,2-Dichloroethene	0.934	0.914	2.1	83	0.00
28 T	Bromochloromethane	0.747	0.756	-1.2	92	0.00
29 T	Tetrahydrofuran	0.472	0.479	-1.5	87	0.00
30 C	Chloroform	1.578	1.618	-2.5#	88	0.00
31 T	Cyclohexane	1.289	1.258	2.4	87	0.00
32 T	1,1,1-Trichloroethane	1.337	1.361	-1.8	89	0.00
33 S	1,2-Dichloroethane-d4	1.024	1.110	-8.4	99	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35 S	Dibromofluoromethane	0.361	0.399	-10.5	100	0.00
36 T	1,1-Dichloropropene	0.554	0.548	1.1	87	0.00
37 T	Ethyl Acetate	0.757	0.738	2.5	84	0.00
38 T	Carbon Tetrachloride	0.547	0.582	-6.4	90	0.00
39 T	Methylcyclohexane	0.610	0.595	2.5	85	0.00
40 TM	Benzene	1.699	1.741	-2.5	87	0.00
41 T	Methacrylonitrile	0.392	0.393	-0.3	85	0.00
42 TM	1,2-Dichloroethane	0.653	0.669	-2.5	87	0.00
43 T	Isopropyl Acetate	1.182	1.210	-2.4	85	0.00
44 TM	Trichloroethene	0.388	0.381	1.8	85	0.00
45 C	1,2-Dichloropropane	0.448	0.442	1.3#	86	0.00
46 T	Dibromomethane	0.319	0.329	-3.1	87	0.00
47 T	Bromodichloromethane	0.653	0.672	-2.9	88	0.00
48 T	Methyl methacrylate	0.559	0.576	-3.0	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087676.D
 Acq On : 28 Aug 2025 11:33
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 03:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.008	-14.3	84	0.00
50 S	Toluene-d8	1.351	1.482	-9.7	102	0.00
51 T	4-Methyl-2-Pentanone	0.713	0.762	-6.9	87	0.00
52 CM	Toluene	1.053	1.088	-3.3#	87	0.00
53 T	t-1,3-Dichloropropene	0.676	0.619	8.4	74	0.00
54 T	cis-1,3-Dichloropropene	0.702	0.647	7.8	76	0.00
55 T	1,1,2-Trichloroethane	0.407	0.421	-3.4	87	0.00
56 T	Ethyl methacrylate	0.651	0.708	-8.8	84	0.00
57 T	1,3-Dichloropropane	0.721	0.762	-5.7	88	0.00
58 T	2-Chloroethyl Vinyl ether	0.352	0.363	-3.1	86	0.00
59 T	2-Hexanone	0.451	0.516	-14.4	85	0.00
60 T	Dibromochloromethane	0.472	0.483	-2.3	87	0.00
61 T	1,2-Dibromoethane	0.430	0.437	-1.6	85	0.00
62 S	4-Bromofluorobenzene	0.481	0.534	-11.0	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64 T	Tetrachloroethene	0.347	0.359	-3.5	96	0.00
65 PM	Chlorobenzene	1.244	1.243	0.1	86	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.440	-6.5	88	0.00
67 C	Ethyl Benzene	2.154	2.227	-3.4#	87	0.00
68 T	m/p-Xylenes	0.790	0.822	-4.1	85	0.00
69 T	o-Xylene	0.774	0.802	-3.6	84	0.00
70 T	Styrene	1.297	1.409	-8.6	85	0.00
71 P	Bromoform	0.317	0.333	-5.0	87	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
73 T	Isopropylbenzene	4.040	4.142	-2.5	86	0.00
74 T	N-amyl acetate	1.531	1.482	3.2	80	0.00
75 P	1,1,2,2-Tetrachloroethane	1.391	1.429	-2.7	88	0.00
76 T	1,2,3-Trichloropropane	1.173	1.139	2.9	89	0.00
77 T	Bromobenzene	0.953	0.960	-0.7	86	0.00
78 T	n-propylbenzene	4.977	5.164	-3.8	86	0.00
79 T	2-Chlorotoluene	2.995	3.094	-3.3	87	0.00
80 T	1,3,5-Trimethylbenzene	3.428	3.537	-3.2	86	0.00
81 T	trans-1,4-Dichloro-2-butene	0.443	0.356	19.6	66	0.00
82 T	4-Chlorotoluene	3.149	3.154	-0.2	84	0.00
83 T	tert-Butylbenzene	2.856	3.033	-6.2	87	0.00
84 T	1,2,4-Trimethylbenzene	3.431	3.638	-6.0	87	0.00
85 T	sec-Butylbenzene	4.239	4.430	-4.5	88	0.00
86 T	p-Isopropyltoluene	3.500	3.628	-3.7	86	0.00
87 T	1,3-Dichlorobenzene	1.876	1.887	-0.6	87	0.00
88 T	1,4-Dichlorobenzene	1.952	1.924	1.4	87	0.00
89 T	n-Butylbenzene	3.476	3.510	-1.0	85	0.00
90 T	Hexachloroethane	0.667	0.731	-9.6	94	0.00
91 T	1,2-Dichlorobenzene	1.780	1.815	-2.0	87	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.323	2.1	86	0.00
93 T	1,2,4-Trichlorobenzene	1.069	1.042	2.5	85	0.00
94 T	Hexachlorobutadiene	0.381	0.357	6.3	85	0.00
95 T	Naphthalene	3.786	3.789	-0.1	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087676.D
Acq On : 28 Aug 2025 11:33
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 29 03:14:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.045	1.021	2.3	85	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087676.D
 Acq On : 28 Aug 2025 11:33
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 03:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	86	0.00
2 T	Dichlorodifluoromethane	50.000	55.435	-10.9	83	0.00
3 P	Chloromethane	50.000	53.699	-7.4	84	0.00
4 C	Vinyl Chloride	50.000	52.872	-5.7#	85	0.00
5 T	Bromomethane	50.000	50.966	-1.9	85	0.00
6 T	Chloroethane	50.000	51.697	-3.4	87	0.00
7 T	Trichlorofluoromethane	50.000	54.965	-9.9	92	0.00
8 T	Diethyl Ether	50.000	49.351	1.3	86	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.443	-2.9	89	0.00
10 T	Methyl Iodide	50.000	40.497	19.0	73	0.00
11 T	Tert butyl alcohol	250.000	240.765	3.7	80	0.00
12 CM	1,1-Dichloroethene	50.000	50.163	-0.3#	88	0.00
13 T	Acrolein	250.000	259.517	-3.8	90	0.00
14 T	Allyl chloride	50.000	41.455	17.1	75	0.00
15 T	Acrylonitrile	250.000	249.769	0.1	86	0.00
16 T	Acetone	250.000	219.470	12.2	80	0.00
17 T	Carbon Disulfide	50.000	48.308	3.4	82	0.00
18 T	Methyl Acetate	50.000	56.085	-12.2	97	0.00
19 T	Methyl tert-butyl Ether	50.000	50.629	-1.3	86	0.00
20 T	Methylene Chloride	50.000	51.079	-2.2	86	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.940	4.1	85	0.00
22 T	Diisopropyl ether	50.000	51.946	-3.9	87	0.00
23 T	Vinyl Acetate	250.000	247.874	0.9	81	0.00
24 P	1,1-Dichloroethane	50.000	49.195	1.6	87	0.00
25 T	2-Butanone	250.000	241.104	3.6	83	0.00
26 T	2,2-Dichloropropane	50.000	23.443	53.1#	40	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.956	2.1	83	0.00
28 T	Bromochloromethane	50.000	50.563	-1.1	92	0.00
29 T	Tetrahydrofuran	250.000	253.557	-1.4	87	0.00
30 C	Chloroform	50.000	51.272	-2.5#	88	0.00
31 T	Cyclohexane	50.000	48.814	2.4	87	0.00
32 T	1,1,1-Trichloroethane	50.000	50.884	-1.8	89	0.00
33 S	1,2-Dichloroethane-d4	50.000	54.196	-8.4	99	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35 S	Dibromofluoromethane	50.000	55.233	-10.5	100	0.00
36 T	1,1-Dichloropropene	50.000	49.487	1.0	87	0.00
37 T	Ethyl Acetate	50.000	48.759	2.5	84	0.00
38 T	Carbon Tetrachloride	50.000	53.190	-6.4	90	0.00
39 T	Methylcyclohexane	50.000	48.753	2.5	85	0.00
40 TM	Benzene	50.000	51.233	-2.5	87	0.00
41 T	Methacrylonitrile	50.000	50.147	-0.3	85	0.00
42 TM	1,2-Dichloroethane	50.000	51.255	-2.5	87	0.00
43 T	Isopropyl Acetate	50.000	51.212	-2.4	85	0.00
44 TM	Trichloroethene	50.000	49.177	1.6	85	0.00
45 C	1,2-Dichloropropane	50.000	49.364	1.3#	86	0.00
46 T	Dibromomethane	50.000	51.624	-3.2	87	0.00
47 T	Bromodichloromethane	50.000	51.437	-2.9	88	0.00
48 T	Methyl methacrylate	50.000	51.516	-3.0	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087676.D
 Acq On : 28 Aug 2025 11:33
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 03:14:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1075.707	-7.6	84	0.00
50 S	Toluene-d8	50.000	54.855	-9.7	102	0.00
51 T	4-Methyl-2-Pentanone	250.000	267.341	-6.9	87	0.00
52 CM	Toluene	50.000	51.637	-3.3#	87	0.00
53 T	t-1,3-Dichloropropene	50.000	45.756	8.5	74	0.00
54 T	cis-1,3-Dichloropropene	50.000	46.063	7.9	76	0.00
55 T	1,1,2-Trichloroethane	50.000	51.683	-3.4	87	0.00
56 T	Ethyl methacrylate	50.000	54.397	-8.8	84	0.00
57 T	1,3-Dichloropropane	50.000	52.831	-5.7	88	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	257.710	-3.1	86	0.00
59 T	2-Hexanone	250.000	286.566	-14.6	85	0.00
60 T	Dibromochloromethane	50.000	51.204	-2.4	87	0.00
61 T	1,2-Dibromoethane	50.000	50.918	-1.8	85	0.00
62 S	4-Bromofluorobenzene	50.000	55.582	-11.2	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64 T	Tetrachloroethene	50.000	51.738	-3.5	96	0.00
65 PM	Chlorobenzene	50.000	49.980	0.0	86	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.319	-6.6	88	0.00
67 C	Ethyl Benzene	50.000	51.689	-3.4#	87	0.00
68 T	m/p-Xylenes	100.000	104.095	-4.1	85	0.00
69 T	o-Xylene	50.000	51.788	-3.6	84	0.00
70 T	Styrene	50.000	54.320	-8.6	85	0.00
71 P	Bromoform	50.000	52.519	-5.0	87	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	84	0.00
73 T	Isopropylbenzene	50.000	51.259	-2.5	86	0.00
74 T	N-ethyl acetate	50.000	48.410	3.2	80	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.356	-2.7	88	0.00
76 T	1,2,3-Trichloropropane	50.000	48.580	2.8	89	0.00
77 T	Bromobenzene	50.000	50.404	-0.8	86	0.00
78 T	n-propylbenzene	50.000	51.887	-3.8	86	0.00
79 T	2-Chlorotoluene	50.000	51.657	-3.3	87	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.601	-3.2	86	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	40.186	19.6	66	0.00
82 T	4-Chlorotoluene	50.000	50.080	-0.2	84	0.00
83 T	tert-Butylbenzene	50.000	53.098	-6.2	87	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.018	-6.0	87	0.00
85 T	sec-Butylbenzene	50.000	52.260	-4.5	88	0.00
86 T	p-Isopropyltoluene	50.000	51.831	-3.7	86	0.00
87 T	1,3-Dichlorobenzene	50.000	50.301	-0.6	87	0.00
88 T	1,4-Dichlorobenzene	50.000	49.275	1.5	87	0.00
89 T	n-Butylbenzene	50.000	50.490	-1.0	85	0.00
90 T	Hexachloroethane	50.000	54.847	-9.7	94	0.00
91 T	1,2-Dichlorobenzene	50.000	50.985	-2.0	87	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.921	2.2	86	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.741	2.5	85	0.00
94 T	Hexachlorobutadiene	50.000	46.900	6.2	85	0.00
95 T	Naphthalene	50.000	50.044	-0.1	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087676.D
Acq On : 28 Aug 2025 11:33
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 29 03:14:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.847	2.3	85	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2964</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>08/29/2025 12:05</u>
Lab File ID:	<u>VN087693.D</u>	Init. Calib. Date(s):	<u>08/21/2025 08/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:09 14:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.710	0.697		-1.83	20
Chloromethane	0.730	0.732	0.1	0.27	20
Vinyl Chloride	0.846	0.837		-1.06	20
Bromomethane	0.437	0.424		-2.97	20
Chloroethane	0.595	0.582		-2.18	20
Trichlorofluoromethane	1.240	1.260		1.61	20
1,1,2-Trichlorotrifluoroethane	0.701	0.684		-2.42	20
1,1-Dichloroethene	0.721	0.684		-5.13	20
Acetone	0.558	0.492		-11.83	20
Carbon Disulfide	1.985	1.750		-11.84	20
Methyl tert-butyl Ether	2.704	2.689		-0.56	20
Methyl Acetate	1.168	1.232		5.48	20
Methylene Chloride	0.948	0.821		-13.4	20
trans-1,2-Dichloroethene	0.781	0.727		-6.91	20
1,1-Dichloroethane	1.546	1.478	0.1	-4.4	20
Cyclohexane	1.289	1.175		-8.84	20
2-Butanone	0.734	0.702		-4.36	20
Carbon Tetrachloride	0.547	0.537		-1.83	20
cis-1,2-Dichloroethene	0.934	0.898		-3.85	20
Bromochloromethane	0.747	0.738		-1.21	20
Chloroform	1.578	1.619		2.6	20
1,1,1-Trichloroethane	1.337	1.295		-3.14	20
Methylcyclohexane	0.610	0.556		-8.85	20
Benzene	1.699	1.684		-0.88	20
1,2-Dichloroethane	0.653	0.648		-0.77	20
Trichloroethene	0.388	0.375		-3.35	20
1,2-Dichloropropane	0.448	0.445		-0.67	20
Bromodichloromethane	0.653	0.664		1.68	20
4-Methyl-2-Pentanone	0.713	0.757		6.17	20
Toluene	1.053	1.042		-1.04	20
t-1,3-Dichloropropene	0.676	0.678		0.3	20
cis-1,3-Dichloropropene	0.702	0.706		0.57	20
1,1,2-Trichloroethane	0.407	0.421		3.44	20
2-Hexanone	0.451	0.513		13.75	20
Dibromochloromethane	0.472	0.492		4.24	20
1,2-Dibromoethane	0.430	0.441		2.56	20
Tetrachloroethene	0.347	0.305		-12.1	20
Chlorobenzene	1.244	1.162	0.3	-6.59	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2964</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>08/29/2025</u> <u>12:05</u>
Lab File ID:	<u>VN087693.D</u>	Init. Calib. Date(s):	<u>08/21/2025</u> <u>08/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:09</u> <u>14:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.154	2.070		-3.9	20
m/p-Xylenes	0.790	0.774		-2.03	20
o-Xylene	0.774	0.770		-0.52	20
Styrene	1.297	1.323		2.01	20
Bromoform	0.317	0.328	0.1	3.47	20
Isopropylbenzene	4.040	3.792		-6.14	20
1,1,2,2-Tetrachloroethane	1.391	1.350	0.3	-2.95	20
1,3-Dichlorobenzene	1.876	1.769		-5.7	20
1,4-Dichlorobenzene	1.952	1.822		-6.66	20
1,2-Dichlorobenzene	1.780	1.695		-4.78	20
1,2-Dibromo-3-Chloropropane	0.330	0.310		-6.06	20
1,2,4-Trichlorobenzene	1.069	0.996		-6.83	20
1,2,3-Trichlorobenzene	1.045	0.964		-7.75	20
1,2-Dichloroethane-d4	1.024	0.989		-3.42	20
Dibromofluoromethane	0.361	0.357		-1.11	20
Toluene-d8	1.351	1.329		-1.63	20
4-Bromofluorobenzene	0.481	0.486		1.04	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087693.D
 Acq On : 29 Aug 2025 12:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/02/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:51:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	191520	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	371305	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	364439	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	186778	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	189370	48.259	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.520%		
35) Dibromofluoromethane	8.147	113	132581	49.455	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.920%		
50) Toluene-d8	10.547	98	493637	49.197	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.400%		
62) 4-Bromofluorobenzene	12.829	95	180449	50.570	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.140%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	133569	49.104	ug/l	96
3) Chloromethane	2.383	50	140182	50.147	ug/l	99
4) Vinyl Chloride	2.542	62	160234	49.437	ug/l	99
5) Bromomethane	2.959	94	81294	48.610	ug/l	94
6) Chloroethane	3.130	64	111532	48.960	ug/l	93
7) Trichlorofluoromethane	3.506	101	241221	50.798	ug/l	99
8) Diethyl Ether	3.959	74	100251	48.475	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	131090	48.787	ug/l	99
10) Methyl Iodide	4.577	142	81953	42.063	ug/l	92
11) Tert butyl alcohol	5.530	59	168769	247.743	ug/l	99
12) 1,1-Dichloroethene	4.330	96	130974	47.433	ug/l	96
13) Acrolein	4.171	56	195333	233.240	ug/l	98
14) Allyl chloride	5.006	41	216153	43.198	ug/l	98
15) Acrylonitrile	5.706	53	468011	243.601	ug/l	99
16) Acetone	4.418	43	471526	220.740	ug/l	98
17) Carbon Disulfide	4.706	76	335145	44.089	ug/l	97
18) Methyl Acetate	5.018	43	235905	52.745	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	515002	49.718	ug/l	99
20) Methylene Chloride	5.265	84	157286	50.929	ug/l	96
21) trans-1,2-Dichloroethene	5.771	96	139263	46.536	ug/l	93
22) Diisopropyl ether	6.659	45	544231	50.400	ug/l	97
23) Vinyl Acetate	6.589	43	2469006	251.323	ug/l	99
24) 1,1-Dichloroethane	6.547	63	283045	47.807	ug/l	98
25) 2-Butanone	7.471	43	672459	239.282	ug/l	99
26) 2,2-Dichloropropane	7.477	77	230378	45.337	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	172078	48.099	ug/l	99
28) Bromochloromethane	7.800	49	141381	49.395	ug/l	98
29) Tetrahydrofuran	7.824	42	443196	245.049	ug/l	99
30) Chloroform	7.947	83	310122	51.319	ug/l	99
31) Cyclohexane	8.241	56	224964	45.579	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	248001	48.426	ug/l	98
36) 1,1-Dichloropropene	8.353	75	191825	46.642	ug/l	98
37) Ethyl Acetate	7.547	43	277772	49.426	ug/l	98
38) Carbon Tetrachloride	8.341	117	199259	49.071	ug/l	98
39) Methylcyclohexane	9.582	83	206436	45.592	ug/l	97
40) Benzene	8.588	78	625252	49.567	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087693.D
 Acq On : 29 Aug 2025 12:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/02/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:51:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	143104	49.157	ug/l	98
42) 1,2-Dichloroethane	8.653	62	240468	49.608	ug/l	99
43) Isopropyl Acetate	8.671	43	450972	51.398	ug/l	99
44) Trichloroethene	9.330	130	139358	48.389	ug/l	95
45) 1,2-Dichloropropane	9.600	63	165303	49.715	ug/l	99
46) Dibromomethane	9.688	93	118106	49.915	ug/l	99
47) Bromodichloromethane	9.871	83	246706	50.875	ug/l #	99
48) Methyl methacrylate	9.665	41	210762	50.783	ug/l	99
49) 1,4-Dioxane	9.677	88	64059	1190.849	ug/l #	100
51) 4-Methyl-2-Pentanone	10.424	43	1405573	265.512	ug/l	100
52) Toluene	10.612	92	387057	49.495	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	251750	50.155	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	261991	50.268	ug/l	98
55) 1,1,2-Trichloroethane	10.994	97	156363	51.687	ug/l	95
56) Ethyl methacrylate	10.859	69	259596	53.695	ug/l	98
57) 1,3-Dichloropropane	11.141	76	275782	51.511	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	706449	269.972	ug/l	100
59) 2-Hexanone	11.177	43	952969	284.835	ug/l	98
60) Dibromochloromethane	11.341	129	182617	52.098	ug/l	100
61) 1,2-Dibromoethane	11.447	107	163845	51.364	ug/l	99
64) Tetrachloroethene	11.082	164	111138	43.955	ug/l	94
65) Chlorobenzene	11.871	112	423617	46.722	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.941	131	149687	49.730	ug/l	98
67) Ethyl Benzene	11.941	91	754439	48.059	ug/l	95
68) m/p-Xylenes	12.047	106	564475	98.046	ug/l	100
69) o-Xylene	12.376	106	280558	49.726	ug/l	98
70) Styrene	12.388	104	482243	51.018	ug/l	99
71) Bromoform	12.559	173	119487	51.760	ug/l #	98
73) Isopropylbenzene	12.676	105	708214	46.924	ug/l	100
74) N-amyl acetate	12.500	43	267206m	46.717	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	252067	48.509	ug/l	99
76) 1,2,3-Trichloropropane	12.976	75	230813m	52.697	ug/l	
77) Bromobenzene	12.959	156	167164	46.974	ug/l	98
78) n-propylbenzene	13.012	91	885108	47.610	ug/l	99
79) 2-Chlorotoluene	13.100	91	526261	47.040	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	615009	48.034	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	82671	49.968	ug/l	96
82) 4-Chlorotoluene	13.200	91	550714	46.819	ug/l	97
83) tert-Butylbenzene	13.418	119	510588	47.855	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	630082	49.159	ug/l	99
85) sec-Butylbenzene	13.594	105	749419	47.332	ug/l	100
86) p-Isopropyltoluene	13.706	119	623474	47.687	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	330379	47.143	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	340358	46.670	ug/l	98
89) n-Butylbenzene	14.035	91	616765	47.499	ug/l	99
90) Hexachloroethane	14.312	117	121377	48.729	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	316654	47.628	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	57942	46.940	ug/l	98
93) 1,2,4-Trichlorobenzene	15.364	180	186005	46.590	ug/l	98
94) Hexachlorobutadiene	15.476	225	64636	45.412	ug/l	99
95) Naphthalene	15.617	128	676040	47.807	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	180020	46.124	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087693.D
Acq On : 29 Aug 2025 12:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/02/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:51:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

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

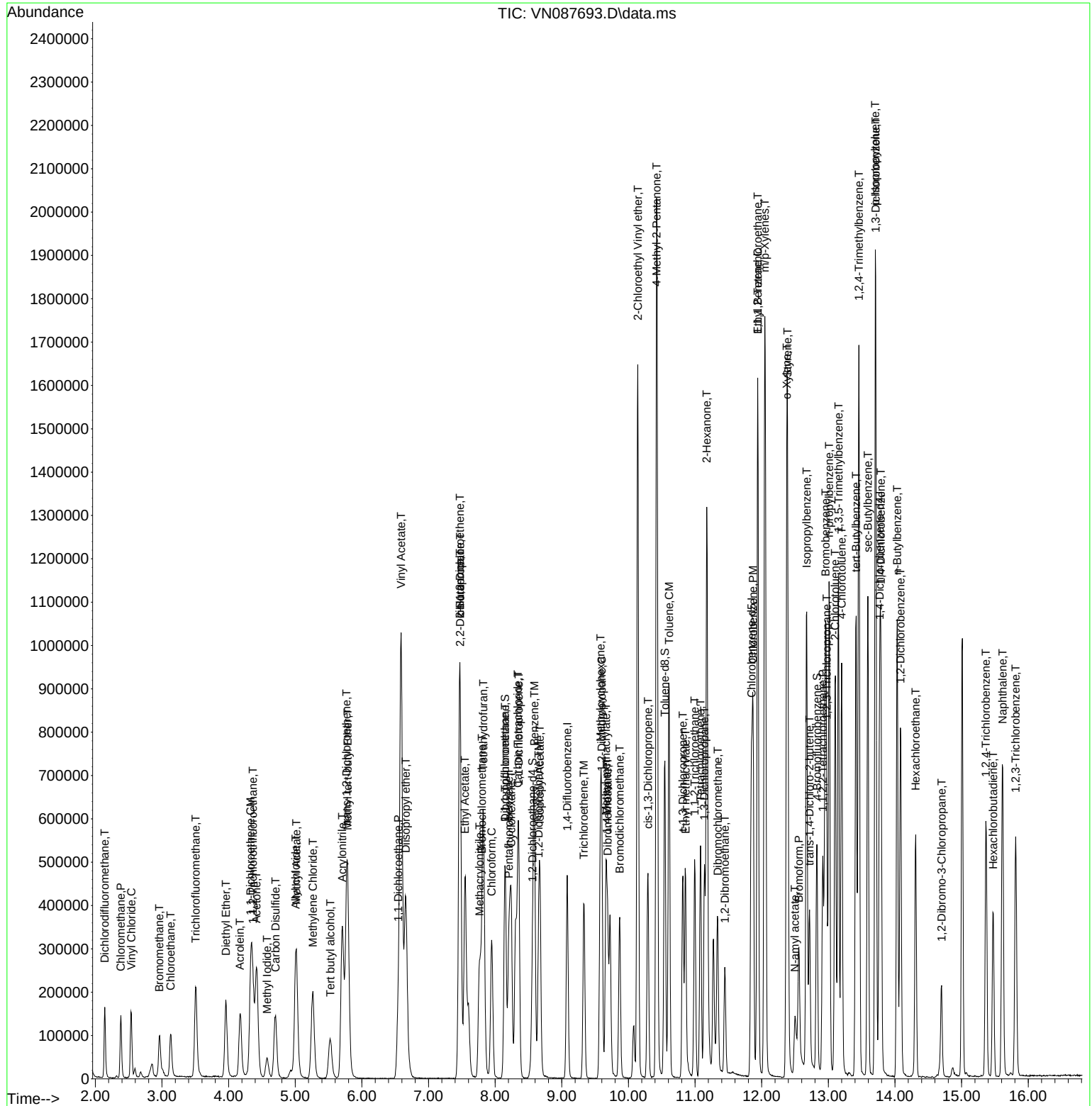
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\  
Data File : VN087693.D  
Acq On    : 29 Aug 2025 12:05  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 09/02/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:51:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087693.D
 Acq On : 29 Aug 2025 12:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 22:51:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	82	0.00
2 T	Dichlorodifluoromethane	0.710	0.697	1.8	70	0.00
3 P	Chloromethane	0.730	0.732	-0.3	75	0.00
4 C	Vinyl Chloride	0.846	0.837	1.1#	76	0.00
5 T	Bromomethane	0.437	0.424	3.0	77	-0.01
6 T	Chloroethane	0.595	0.582	2.2	79	0.00
7 T	Trichlorofluoromethane	1.240	1.260	-1.6	81	0.00
8 T	Diethyl Ether	0.540	0.523	3.1	81	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.701	0.684	2.4	80	0.00
10 T	Methyl Iodide	0.450	0.428	4.9	73	0.00
11 T	Tert butyl alcohol	0.178	0.176	1.1	78	0.01
12 CM	1,1-Dichloroethene	0.721	0.684	5.1#	80	0.00
13 T	Acrolein	0.219	0.204	6.8	78	0.00
14 T	Allyl chloride	1.306	1.129	13.6	74	0.00
15 T	Acrylonitrile	0.502	0.489	2.6	80	0.00
16 T	Acetone	0.558	0.492	11.8	77	0.00
17 T	Carbon Disulfide	1.985	1.750	11.8	71	0.00
18 T	Methyl Acetate	1.168	1.232	-5.5	87	0.00
19 T	Methyl tert-butyl Ether	2.704	2.689	0.6	80	0.00
20 T	Methylene Chloride	0.948	0.821	13.4	81	0.00
21 T	trans-1,2-Dichloroethene	0.781	0.727	6.9	79	0.00
22 T	Diisopropyl ether	2.819	2.842	-0.8	81	0.00
23 T	Vinyl Acetate	2.565	2.578	-0.5	78	0.00
24 P	1,1-Dichloroethane	1.546	1.478	4.4	80	0.00
25 T	2-Butanone	0.734	0.702	4.4	78	0.00
26 T	2,2-Dichloropropane	1.327	1.203	9.3	75	0.00
27 T	cis-1,2-Dichloroethene	0.934	0.898	3.9	78	0.00
28 T	Bromochloromethane	0.747	0.738	1.2	86	0.00
29 T	Tetrahydrofuran	0.472	0.463	1.9	80	0.00
30 C	Chloroform	1.578	1.619	-2.6#	84	0.00
31 T	Cyclohexane	1.289	1.175	8.8	78	0.00
32 T	1,1,1-Trichloroethane	1.337	1.295	3.1	81	0.00
33 S	1,2-Dichloroethane-d4	1.024	0.989	3.4	84	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
35 S	Dibromofluoromethane	0.361	0.357	1.1	85	0.00
36 T	1,1-Dichloropropene	0.554	0.517	6.7	78	0.00
37 T	Ethyl Acetate	0.757	0.748	1.2	80	0.00
38 T	Carbon Tetrachloride	0.547	0.537	1.8	79	0.00
39 T	Methylcyclohexane	0.610	0.556	8.9	75	0.00
40 TM	Benzene	1.699	1.684	0.9	79	0.00
41 T	Methacrylonitrile	0.392	0.385	1.8	79	0.00
42 TM	1,2-Dichloroethane	0.653	0.648	0.8	79	0.00
43 T	Isopropyl Acetate	1.182	1.215	-2.8	80	0.00
44 TM	Trichloroethene	0.388	0.375	3.4	79	0.00
45 C	1,2-Dichloropropane	0.448	0.445	0.7#	81	0.00
46 T	Dibromomethane	0.319	0.318	0.3	79	0.00
47 T	Bromodichloromethane	0.653	0.664	-1.7	83	0.00
48 T	Methyl methacrylate	0.559	0.568	-1.6	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087693.D
 Acq On : 29 Aug 2025 12:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 22:51:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.007	0.009	-28.6#	88	0.00
50 S	Toluene-d8	1.351	1.329	1.6	86	0.00
51 T	4-Methyl-2-Pentanone	0.713	0.757	-6.2	82	0.00
52 CM	Toluene	1.053	1.042	1.0#	79	0.00
53 T	t-1,3-Dichloropropene	0.676	0.678	-0.3	77	0.00
54 T	cis-1,3-Dichloropropene	0.702	0.706	-0.6	78	0.00
55 T	1,1,2-Trichloroethane	0.407	0.421	-3.4	82	0.00
56 T	Ethyl methacrylate	0.651	0.699	-7.4	79	0.00
57 T	1,3-Dichloropropane	0.721	0.743	-3.1	81	0.00
58 T	2-Chloroethyl Vinyl ether	0.352	0.381	-8.2	85	0.00
59 T	2-Hexanone	0.451	0.513	-13.7	80	0.00
60 T	Dibromochloromethane	0.472	0.492	-4.2	84	0.00
61 T	1,2-Dibromoethane	0.430	0.441	-2.6	81	0.00
62 S	4-Bromofluorobenzene	0.481	0.486	-1.0	86	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64 T	Tetrachloroethene	0.347	0.305	12.1	81	0.00
65 PM	Chlorobenzene	1.244	1.162	6.6	80	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.411	0.5	81	0.00
67 C	Ethyl Benzene	2.154	2.070	3.9#	80	0.00
68 T	m/p-Xylenes	0.790	0.774	2.0	79	0.00
69 T	o-Xylene	0.774	0.770	0.5	80	0.00
70 T	Styrene	1.297	1.323	-2.0	80	0.00
71 P	Bromoform	0.317	0.328	-3.5	85	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
73 T	Isopropylbenzene	4.040	3.792	6.1	80	0.00
74 T	N-amyl acetate	1.531	1.431	6.5	78	0.00
75 P	1,1,2,2-Tetrachloroethane	1.391	1.350	2.9	84	0.00
76 T	1,2,3-Trichloropropane	1.173	1.236	-5.4	97	0.00
77 T	Bromobenzene	0.953	0.895	6.1	80	0.00
78 T	n-propylbenzene	4.977	4.739	4.8	80	0.00
79 T	2-Chlorotoluene	2.995	2.818	5.9	80	0.00
80 T	1,3,5-Trimethylbenzene	3.428	3.293	3.9	80	0.00
81 T	trans-1,4-Dichloro-2-butene	0.443	0.443	0.0	83	0.00
82 T	4-Chlorotoluene	3.149	2.948	6.4	79	0.00
83 T	tert-Butylbenzene	2.856	2.734	4.3	79	0.00
84 T	1,2,4-Trimethylbenzene	3.431	3.373	1.7	82	0.00
85 T	sec-Butylbenzene	4.239	4.012	5.4	80	0.00
86 T	p-Isopropyltoluene	3.500	3.338	4.6	80	0.00
87 T	1,3-Dichlorobenzene	1.876	1.769	5.7	82	0.00
88 T	1,4-Dichlorobenzene	1.952	1.822	6.7	83	0.00
89 T	n-Butylbenzene	3.476	3.302	5.0	81	0.00
90 T	Hexachloroethane	0.667	0.650	2.5	84	0.00
91 T	1,2-Dichlorobenzene	1.780	1.695	4.8	82	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.310	6.1	83	0.00
93 T	1,2,4-Trichlorobenzene	1.069	0.996	6.8	82	0.00
94 T	Hexachlorobutadiene	0.381	0.346	9.2	82	0.00
95 T	Naphthalene	3.786	3.619	4.4	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087693.D
Acq On : 29 Aug 2025 12:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 29 22:51:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.045	0.964	7.8	81	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087693.D
 Acq On : 29 Aug 2025 12:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 22:51:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	82	0.00
2 T	Dichlorodifluoromethane	50.000	49.104	1.8	70	0.00
3 P	Chloromethane	50.000	50.147	-0.3	75	0.00
4 C	Vinyl Chloride	50.000	49.437	1.1#	76	0.00
5 T	Bromomethane	50.000	48.610	2.8	77	-0.01
6 T	Chloroethane	50.000	48.960	2.1	79	0.00
7 T	Trichlorofluoromethane	50.000	50.798	-1.6	81	0.00
8 T	Diethyl Ether	50.000	48.475	3.0	81	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.787	2.4	80	0.00
10 T	Methyl Iodide	50.000	42.063	15.9	73	0.00
11 T	Tert butyl alcohol	250.000	247.743	0.9	78	0.01
12 CM	1,1-Dichloroethene	50.000	47.433	5.1#	80	0.00
13 T	Acrolein	250.000	233.240	6.7	78	0.00
14 T	Allyl chloride	50.000	43.198	13.6	74	0.00
15 T	Acrylonitrile	250.000	243.601	2.6	80	0.00
16 T	Acetone	250.000	220.740	11.7	77	0.00
17 T	Carbon Disulfide	50.000	44.089	11.8	71	0.00
18 T	Methyl Acetate	50.000	52.745	-5.5	87	0.00
19 T	Methyl tert-butyl Ether	50.000	49.718	0.6	80	0.00
20 T	Methylene Chloride	50.000	50.929	-1.9	81	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.536	6.9	79	0.00
22 T	Diisopropyl ether	50.000	50.400	-0.8	81	0.00
23 T	Vinyl Acetate	250.000	251.323	-0.5	78	0.00
24 P	1,1-Dichloroethane	50.000	47.807	4.4	80	0.00
25 T	2-Butanone	250.000	239.282	4.3	78	0.00
26 T	2,2-Dichloropropane	50.000	45.337	9.3	75	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.099	3.8	78	0.00
28 T	Bromochloromethane	50.000	49.395	1.2	86	0.00
29 T	Tetrahydrofuran	250.000	245.049	2.0	80	0.00
30 C	Chloroform	50.000	51.319	-2.6#	84	0.00
31 T	Cyclohexane	50.000	45.579	8.8	78	0.00
32 T	1,1,1-Trichloroethane	50.000	48.426	3.1	81	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.259	3.5	84	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	79	0.00
35 S	Dibromofluoromethane	50.000	49.455	1.1	85	0.00
36 T	1,1-Dichloropropene	50.000	46.642	6.7	78	0.00
37 T	Ethyl Acetate	50.000	49.426	1.1	80	0.00
38 T	Carbon Tetrachloride	50.000	49.071	1.9	79	0.00
39 T	Methylcyclohexane	50.000	45.592	8.8	75	0.00
40 TM	Benzene	50.000	49.567	0.9	79	0.00
41 T	Methacrylonitrile	50.000	49.157	1.7	79	0.00
42 TM	1,2-Dichloroethane	50.000	49.608	0.8	79	0.00
43 T	Isopropyl Acetate	50.000	51.398	-2.8	80	0.00
44 TM	Trichloroethene	50.000	48.389	3.2	79	0.00
45 C	1,2-Dichloropropane	50.000	49.715	0.6#	81	0.00
46 T	Dibromomethane	50.000	49.915	0.2	79	0.00
47 T	Bromodichloromethane	50.000	50.875	-1.8	83	0.00
48 T	Methyl methacrylate	50.000	50.783	-1.6	81	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087693.D
 Acq On : 29 Aug 2025 12:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 22:51:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1190.849	-19.1	88	0.00
50 S	Toluene-d8	50.000	49.197	1.6	86	0.00
51 T	4-Methyl-2-Pentanone	250.000	265.512	-6.2	82	0.00
52 CM	Toluene	50.000	49.495	1.0#	79	0.00
53 T	t-1,3-Dichloropropene	50.000	50.155	-0.3	77	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.268	-0.5	78	0.00
55 T	1,1,2-Trichloroethane	50.000	51.687	-3.4	82	0.00
56 T	Ethyl methacrylate	50.000	53.695	-7.4	79	0.00
57 T	1,3-Dichloropropane	50.000	51.511	-3.0	81	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	269.972	-8.0	85	0.00
59 T	2-Hexanone	250.000	284.835	-13.9	80	0.00
60 T	Dibromochloromethane	50.000	52.098	-4.2	84	0.00
61 T	1,2-Dibromoethane	50.000	51.364	-2.7	81	0.00
62 S	4-Bromofluorobenzene	50.000	50.570	-1.1	86	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64 T	Tetrachloroethene	50.000	43.955	12.1	81	0.00
65 PM	Chlorobenzene	50.000	46.722	6.6	80	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.730	0.5	81	0.00
67 C	Ethyl Benzene	50.000	48.059	3.9#	80	0.00
68 T	m/p-Xylenes	100.000	98.046	2.0	79	0.00
69 T	o-Xylene	50.000	49.726	0.5	80	0.00
70 T	Styrene	50.000	51.018	-2.0	80	0.00
71 P	Bromoform	50.000	51.760	-3.5	85	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	85	0.00
73 T	Isopropylbenzene	50.000	46.924	6.2	80	0.00
74 T	N-amyl acetate	50.000	46.717	6.6	78	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.509	3.0	84	0.00
76 T	1,2,3-Trichloropropane	50.000	52.697	-5.4	97	0.00
77 T	Bromobenzene	50.000	46.974	6.1	80	0.00
78 T	n-propylbenzene	50.000	47.610	4.8	80	0.00
79 T	2-Chlorotoluene	50.000	47.040	5.9	80	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.034	3.9	80	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.968	0.1	83	0.00
82 T	4-Chlorotoluene	50.000	46.819	6.4	79	0.00
83 T	tert-Butylbenzene	50.000	47.855	4.3	79	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.159	1.7	82	0.00
85 T	sec-Butylbenzene	50.000	47.332	5.3	80	0.00
86 T	p-Isopropyltoluene	50.000	47.687	4.6	80	0.00
87 T	1,3-Dichlorobenzene	50.000	47.143	5.7	82	0.00
88 T	1,4-Dichlorobenzene	50.000	46.670	6.7	83	0.00
89 T	n-Butylbenzene	50.000	47.499	5.0	81	0.00
90 T	Hexachloroethane	50.000	48.729	2.5	84	0.00
91 T	1,2-Dichlorobenzene	50.000	47.628	4.7	82	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.940	6.1	83	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.590	6.8	82	0.00
94 T	Hexachlorobutadiene	50.000	45.412	9.2	82	0.00
95 T	Naphthalene	50.000	47.807	4.4	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087693.D
Acq On : 29 Aug 2025 12:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Aug 29 22:51:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.124	7.8	81	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2964</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>08/28/2025 09:03</u>
Lab File ID:	<u>VY023214.D</u>	Init. Calib. Date(s):	<u>08/12/2025 08/12/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>14:54 16:47</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.408	0.349		-14.46	20
Chloromethane	0.661	0.544	0.1	-17.7	20
Vinyl Chloride	0.817	0.717		-12.24	20
Bromomethane	0.610	0.544		-10.82	20
Chloroethane	0.543	0.495		-8.84	20
Trichlorofluoromethane	0.994	0.932		-6.24	20
1,1,2-Trichlorotrifluoroethane	0.490	0.499		1.84	20
1,1-Dichloroethene	0.482	0.487		1.04	20
Acetone	0.103	0.105		1.94	20
Carbon Disulfide	1.571	1.438		-8.47	20
Methyl tert-butyl Ether	1.249	1.164		-6.8	20
Methyl Acetate	0.307	0.254		-17.26	20
Methylene Chloride	0.620	0.526		-15.16	20
trans-1,2-Dichloroethene	0.541	0.545		0.74	20
1,1-Dichloroethane	0.942	0.919	0.1	-2.44	20
Cyclohexane	0.888	0.797		-10.25	20
2-Butanone	0.140	0.127		-9.29	20
Carbon Tetrachloride	0.483	0.527		9.11	20
cis-1,2-Dichloroethene	0.626	0.636		1.6	20
Bromochloromethane	0.374	0.326		-12.83	20
Chloroform	0.971	0.966		-0.51	20
1,1,1-Trichloroethane	0.862	0.880		2.09	20
Methylcyclohexane	0.586	0.615		4.95	20
Benzene	1.370	1.434		4.67	20
1,2-Dichloroethane	0.356	0.349		-1.97	20
Trichloroethene	0.354	0.398		12.43	20
1,2-Dichloropropane	0.315	0.323		2.54	20
Bromodichloromethane	0.466	0.483		3.65	20
4-Methyl-2-Pentanone	0.195	0.181		-7.18	20
Toluene	0.870	0.941		8.16	20
t-1,3-Dichloropropene	0.422	0.435		3.08	20
cis-1,3-Dichloropropene	0.499	0.515		3.21	20
1,1,2-Trichloroethane	0.242	0.249		2.89	20
2-Hexanone	0.133	0.128		-3.76	20
Dibromochloromethane	0.320	0.340		6.25	20
1,2-Dibromoethane	0.228	0.235		3.07	20
Tetrachloroethene	0.446	0.563		26.23	20
Chlorobenzene	1.079	1.176	0.3	8.99	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2964</u>
Instrument ID:	<u>MSVOA_Y</u>	Calibration Date/Time:	<u>08/28/2025</u> <u>09:03</u>
Lab File ID:	<u>VY023214.D</u>	Init. Calib. Date(s):	<u>08/12/2025</u> <u>08/12/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>14:54</u> <u>16:47</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.856	2.037		9.75	20
m/p-Xylenes	0.725	0.809		11.59	20
o-Xylene	0.679	0.760		11.93	20
Styrene	1.110	1.252		12.79	20
Bromoform	0.214	0.234	0.1	9.35	20
Isopropylbenzene	3.529	4.002		13.4	20
1,1,2,2-Tetrachloroethane	0.603	0.554	0.3	-8.13	20
1,3-Dichlorobenzene	1.660	1.842		10.96	20
1,4-Dichlorobenzene	1.647	1.804		9.53	20
1,2-Dichlorobenzene	1.456	1.593		9.41	20
1,2-Dibromo-3-Chloropropane	0.094	0.087		-7.45	20
1,2,4-Trichlorobenzene	0.861	0.919		6.74	20
1,2,3-Trichlorobenzene	0.742	0.779		4.99	20
1,2-Dichloroethane-d4	0.477	0.403		-15.51	20
Dibromofluoromethane	0.299	0.288		-3.68	20
Toluene-d8	1.169	1.129		-3.42	20
4-Bromofluorobenzene	0.376	0.356		-5.32	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023214.D
 Acq On : 28 Aug 2025 09:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/29/2025
 Supervised By : Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:05:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	542406	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	816314	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	700282	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.347	152	350311	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	218613	42.289	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	84.580%
35) Dibromofluoromethane	7.640	113	235387	48.190	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.380%
50) Toluene-d8	10.109	98	921374	48.285	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.580%
62) 4-Bromofluorobenzene	12.408	95	290945	47.411	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	94.820%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	189088	42.708	ug/l	97
3) Chloromethane	2.074	50	295218	41.168	ug/l	99
4) Vinyl Chloride	2.208	62	388971	43.880	ug/l	99
5) Bromomethane	2.598	94	294842	44.537	ug/l	97
6) Chloroethane	2.739	64	268404	45.544	ug/l	98
7) Trichlorofluoromethane	3.062	101	505264	46.876	ug/l	99
8) Diethyl Ether	3.458	74	132596	46.498	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	270559	50.880	ug/l	97
10) Methyl Iodide	4.007	142	315665	55.012	ug/l	100
11) Tert butyl alcohol	4.860	59	91355	257.913	ug/l	99
12) 1,1-Dichloroethene	3.793	96	263962	50.501	ug/l	92
13) Acrolein	3.653	56	26856	51.771	ug/l	92
14) Allyl chloride	4.391	41	350361	45.555	ug/l	97
15) Acrylonitrile	5.061	53	258615	223.070	ug/l	99
16) Acetone	3.873	43	285229	254.681	ug/l	99
17) Carbon Disulfide	4.110	76	780060	45.771	ug/l	99
18) Methyl Acetate	4.385	43	138010	41.410	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	631439	46.620	ug/l	99
20) Methylene Chloride	4.616	84	285508	49.006	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	295750	50.350	ug/l	98
22) Diisopropyl ether	6.025	45	785482	46.999	ug/l	98
23) Vinyl Acetate	5.964	43	2101431	227.398	ug/l	99
24) 1,1-Dichloroethane	5.921	63	498302	48.768	ug/l	99
25) 2-Butanone	6.896	43	344660	226.278	ug/l	96
26) 2,2-Dichloropropane	6.890	77	455542	51.668	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	345158	50.829	ug/l	95
28) Bromochloromethane	7.250	49	176788	43.610	ug/l	91
29) Tetrahydrofuran	7.268	42	198013	209.726	ug/l	96
30) Chloroform	7.421	83	523945	49.720	ug/l	95
31) Cyclohexane	7.707	56	432516	44.919	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	477557	51.073	ug/l	99
36) 1,1-Dichloropropene	7.835	75	377989	52.071	ug/l	99
37) Ethyl Acetate	6.982	43	137937	45.235	ug/l	98
38) Carbon Tetrachloride	7.823	117	430396	54.588	ug/l	98
39) Methylcyclohexane	9.109	83	502239	52.539	ug/l	98
40) Benzene	8.085	78	1170824	52.330	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023214.D
 Acq On : 28 Aug 2025 09:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025

Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:05:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M

Quant Title : SW846 8260

QLast Update : Wed Aug 13 02:10:11 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	77060	43.788	ug/l	93
42) 1,2-Dichloroethane	8.158	62	284771	48.938	ug/l	99
43) Isopropyl Acetate	8.201	43	280030	45.435	ug/l	98
44) Trichloroethene	8.866	130	325280	56.258	ug/l	96
45) 1,2-Dichloropropane	9.140	63	263525	51.190	ug/l	100
46) Dibromomethane	9.231	93	151778	51.367	ug/l	98
47) Bromodichloromethane	9.426	83	394556	51.895	ug/l	97
48) Methyl methacrylate	9.225	41	133737	45.346	ug/l	94
49) 1,4-Dioxane	9.231	88	31809	918.124	ug/l	91
51) 4-Methyl-2-Pentanone	10.000	43	738021	232.142	ug/l	98
52) Toluene	10.170	92	767746	54.028	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	355108	51.578	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	420533	51.654	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	203266	51.410	ug/l	97
56) Ethyl methacrylate	10.438	69	257770	50.950	ug/l	95
57) 1,3-Dichloropropane	10.719	76	338401	50.467	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	514140	215.441	ug/l	97
59) 2-Hexanone	10.762	43	520526	240.449	ug/l	99
60) Dibromochloromethane	10.914	129	277813	53.251	ug/l	99
61) 1,2-Dibromoethane	11.018	107	192142	51.705	ug/l	99
64) Tetrachloroethene	10.646	164	394576	63.101	ug/l	98
65) Chlorobenzene	11.444	112	823490	54.517	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	284437	55.483	ug/l	98
67) Ethyl Benzene	11.518	91	1426195	54.865	ug/l	98
68) m/p-Xylenes	11.627	106	1132925	111.591	ug/l	98
69) o-Xylene	11.957	106	532438	55.995	ug/l	98
70) Styrene	11.969	104	876540	56.368	ug/l	98
71) Bromoform	12.133	173	163540	54.582	ug/l #	99
73) Isopropylbenzene	12.255	105	1402066	56.707	ug/l	99
74) N-amyl acetate	12.072	43	248059	47.310	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	193929	45.937	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	161219m	47.686	ug/l	
77) Bromobenzene	12.536	156	324846	55.072	ug/l	95
78) n-propylbenzene	12.597	91	1659324	56.370	ug/l	98
79) 2-Chlorotoluene	12.682	91	926246	54.919	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1127538	56.427	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	71925	51.498	ug/l	97
82) 4-Chlorotoluene	12.780	91	943666	53.936	ug/l	98
83) tert-Butylbenzene	12.999	119	1019599	56.496	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	1117053	56.157	ug/l	99
85) sec-Butylbenzene	13.176	105	1509593	56.942	ug/l	99
86) p-Isopropyltoluene	13.292	119	1269521	57.691	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	645274	55.474	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	632123	54.782	ug/l	99
89) n-Butylbenzene	13.615	91	1143834	56.594	ug/l	99
90) Hexachloroethane	13.877	117	254994	56.605	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	557986	54.697	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30425	46.288	ug/l	91
93) 1,2,4-Trichlorobenzene	14.919	180	321825	53.347	ug/l	98
94) Hexachlorobutadiene	15.023	225	201124	56.735	ug/l	99
95) Naphthalene	15.145	128	520530	50.601	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	272991	52.515	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023214.D
Acq On : 28 Aug 2025 09:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:05:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

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

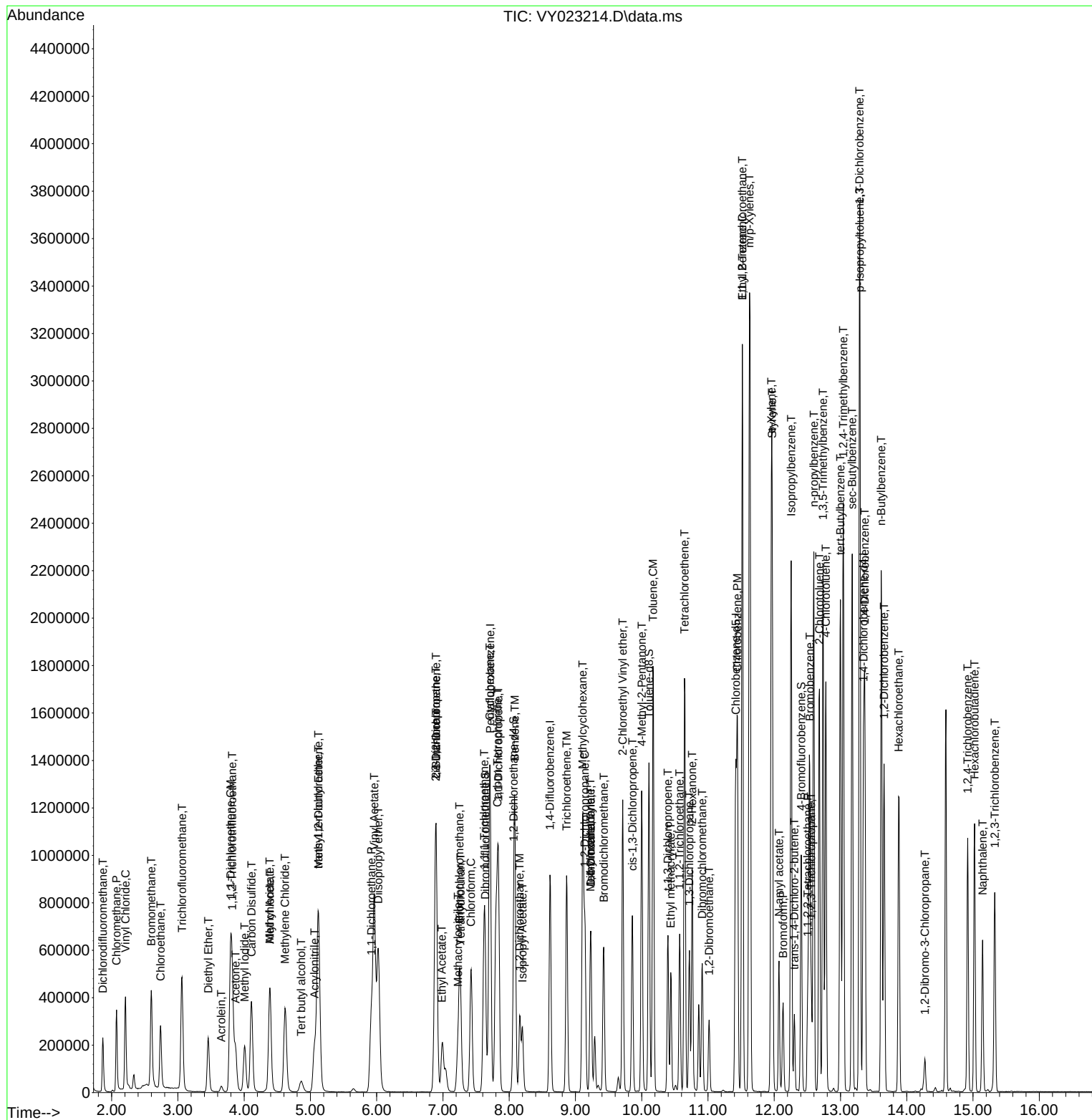
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023214.D
Acq On : 28 Aug 2025 09:03
Operator : SY/MD
Sample : VSTDC0050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:05:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023214.D
 Acq On : 28 Aug 2025 09:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 02:05:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.408	0.349	14.5	101	0.00
3 P	Chloromethane	0.661	0.544	17.7	90	0.00
4 C	Vinyl Chloride	0.817	0.717	12.2#	94	0.01
5 T	Bromomethane	0.610	0.544	10.8	101	0.00
6 T	Chloroethane	0.543	0.495	8.8	97	0.01
7 T	Trichlorofluoromethane	0.994	0.932	6.2	100	0.01
8 T	Diethyl Ether	0.263	0.244	7.2	98	0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.490	0.499	-1.8	109	0.01
10 T	Methyl Iodide	0.529	0.582	-10.0	107	0.01
11 T	Tert butyl alcohol	0.033	0.034	-3.0	107	0.00
12 CM	1,1-Dichloroethene	0.482	0.487	-1.0#	106	0.01
13 T	Acrolein	0.048	0.010	79.2#	22#	0.00
14 T	Allyl chloride	0.709	0.646	8.9	95	0.01
15 T	Acrylonitrile	0.107	0.095	11.2	91	0.01
16 T	Acetone	0.103	0.105	-1.9	102	0.01
17 T	Carbon Disulfide	1.571	1.438	8.5	97	0.01
18 T	Methyl Acetate	0.307	0.254	17.3	79	0.00
19 T	Methyl tert-butyl Ether	1.249	1.164	6.8	95	0.01
20 T	Methylene Chloride	0.620	0.526	15.2	104	0.01
21 T	trans-1,2-Dichloroethene	0.541	0.545	-0.7	105	0.02
22 T	Diisopropyl ether	1.541	1.448	6.0	96	0.00
23 T	Vinyl Acetate	0.852	0.775	9.0	93	0.01
24 P	1,1-Dichloroethane	0.942	0.919	2.4	101	0.01
25 T	2-Butanone	0.140	0.127	9.3	90	0.01
26 T	2,2-Dichloropropane	0.813	0.840	-3.3	107	0.00
27 T	cis-1,2-Dichloroethene	0.626	0.636	-1.6	105	0.01
28 T	Bromochloromethane	0.374	0.326	12.8	90	0.00
29 T	Tetrahydrofuran	0.087	0.073	16.1	84	0.01
30 C	Chloroform	0.971	0.966	0.5#	103	0.00
31 T	Cyclohexane	0.888	0.797	10.2	98	0.01
32 T	1,1,1-Trichloroethane	0.862	0.880	-2.1	106	0.00
33 S	1,2-Dichloroethane-d4	0.477	0.403	15.5	88	0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35 S	Dibromofluoromethane	0.299	0.288	3.7	94	0.01
36 T	1,1-Dichloropropene	0.445	0.463	-4.0	102	0.00
37 T	Ethyl Acetate	0.187	0.169	9.6	86	0.00
38 T	Carbon Tetrachloride	0.483	0.527	-9.1	108	0.00
39 T	Methylcyclohexane	0.586	0.615	-4.9	104	0.00
40 TM	Benzene	1.370	1.434	-4.7	102	0.01
41 T	Methacrylonitrile	0.108	0.094	13.0	82	0.00
42 TM	1,2-Dichloroethane	0.356	0.349	2.0	96	0.00
43 T	Isopropyl Acetate	0.378	0.343	9.3	88	0.00
44 TM	Trichloroethene	0.354	0.398	-12.4	111	0.00
45 C	1,2-Dichloropropane	0.315	0.323	-2.5#	100	0.00
46 T	Dibromomethane	0.181	0.186	-2.8	99	0.00
47 T	Bromodichloromethane	0.466	0.483	-3.6	100	0.00
48 T	Methyl methacrylate	0.181	0.164	9.4	83	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023214.D
 Acq On : 28 Aug 2025 09:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 02:05:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.002	0.002	0.0	88	0.00
50 S	Toluene-d8	1.169	1.129	3.4	94	0.00
51 T	4-Methyl-2-Pentanone	0.195	0.181	7.2	87	0.00
52 CM	Toluene	0.870	0.941	-8.2#	104	0.00
53 T	t-1,3-Dichloropropene	0.422	0.435	-3.1	99	0.00
54 T	cis-1,3-Dichloropropene	0.499	0.515	-3.2	99	0.00
55 T	1,1,2-Trichloroethane	0.242	0.249	-2.9	99	0.00
56 T	Ethyl methacrylate	0.310	0.316	-1.9	94	0.00
57 T	1,3-Dichloropropane	0.411	0.415	-1.0	98	0.00
58 T	2-Chloroethyl Vinyl ether	0.146	0.126	13.7	78	0.00
59 T	2-Hexanone	0.133	0.128	3.8	89	0.00
60 T	Dibromochloromethane	0.320	0.340	-6.3	102	0.00
61 T	1,2-Dibromoethane	0.228	0.235	-3.1	99	0.01
62 S	4-Bromofluorobenzene	0.376	0.356	5.3	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.01
64 T	Tetrachloroethene	0.446	0.563	-26.2#	121	0.00
65 PM	Chlorobenzene	1.079	1.176	-9.0	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.366	0.406	-10.9	105	0.00
67 C	Ethyl Benzene	1.856	2.037	-9.8#	102	0.00
68 T	m/p-Xylenes	0.725	0.809	-11.6	105	0.00
69 T	o-Xylene	0.679	0.760	-11.9	103	0.00
70 T	Styrene	1.110	1.252	-12.8	104	0.00
71 P	Bromoform	0.214	0.234	-9.3	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73 T	Isopropylbenzene	3.529	4.002	-13.4	106	0.00
74 T	N-amyl acetate	0.748	0.708	5.3	86	0.00
75 P	1,1,2,2-Tetrachloroethane	0.603	0.554	8.1	88	0.00
76 T	1,2,3-Trichloropropane	0.483	0.460	4.8	80	0.00
77 T	Bromobenzene	0.842	0.927	-10.1	104	0.01
78 T	n-propylbenzene	4.201	4.737	-12.8	104	0.00
79 T	2-Chlorotoluene	2.407	2.644	-9.8	103	0.01
80 T	1,3,5-Trimethylbenzene	2.852	3.219	-12.9	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.199	0.205	-3.0	96	0.00
82 T	4-Chlorotoluene	2.497	2.694	-7.9	101	0.01
83 T	tert-Butylbenzene	2.576	2.911	-13.0	104	0.00
84 T	1,2,4-Trimethylbenzene	2.839	3.189	-12.3	104	0.00
85 T	sec-Butylbenzene	3.784	4.309	-13.9	106	0.00
86 T	p-Isopropyltoluene	3.141	3.624	-15.4	106	0.00
87 T	1,3-Dichlorobenzene	1.660	1.842	-11.0	106	0.00
88 T	1,4-Dichlorobenzene	1.647	1.804	-9.5	104	0.00
89 T	n-Butylbenzene	2.885	3.265	-13.2	104	0.00
90 T	Hexachloroethane	0.643	0.728	-13.2	107	0.00
91 T	1,2-Dichlorobenzene	1.456	1.593	-9.4	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.094	0.087	7.4	85	0.00
93 T	1,2,4-Trichlorobenzene	0.861	0.919	-6.7	101	0.00
94 T	Hexachlorobutadiene	0.506	0.574	-13.4	108	0.00
95 T	Naphthalene	1.468	1.486	-1.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023214.D
Acq On : 28 Aug 2025 09:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 29 02:05:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.742	0.779	-5.0	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023214.D
 Acq On : 28 Aug 2025 09:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 02:05:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	42.708	14.6	101	0.00
3 P	Chloromethane	50.000	41.168	17.7	90	0.00
4 C	Vinyl Chloride	50.000	43.880	12.2#	94	0.01
5 T	Bromomethane	50.000	44.537	10.9	101	0.00
6 T	Chloroethane	50.000	45.544	8.9	97	0.01
7 T	Trichlorofluoromethane	50.000	46.876	6.2	100	0.01
8 T	Diethyl Ether	50.000	46.498	7.0	98	0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.880	-1.8	109	0.01
10 T	Methyl Iodide	50.000	55.012	-10.0	107	0.01
11 T	Tert butyl alcohol	250.000	257.913	-3.2	107	0.00
12 CM	1,1-Dichloroethene	50.000	50.501	-1.0#	106	0.01
13 T	Acrolein	250.000	51.771	79.3#	22	0.00
14 T	Allyl chloride	50.000	45.555	8.9	95	0.01
15 T	Acrylonitrile	250.000	223.070	10.8	91	0.01
16 T	Acetone	250.000	254.681	-1.9	102	0.01
17 T	Carbon Disulfide	50.000	45.771	8.5	97	0.01
18 T	Methyl Acetate	50.000	41.410	17.2	79	0.00
19 T	Methyl tert-butyl Ether	50.000	46.620	6.8	95	0.01
20 T	Methylene Chloride	50.000	49.006	2.0	104	0.01
21 T	trans-1,2-Dichloroethene	50.000	50.350	-0.7	105	0.02
22 T	Diisopropyl ether	50.000	46.999	6.0	96	0.00
23 T	Vinyl Acetate	250.000	227.398	9.0	93	0.01
24 P	1,1-Dichloroethane	50.000	48.768	2.5	101	0.01
25 T	2-Butanone	250.000	226.278	9.5	90	0.01
26 T	2,2-Dichloropropane	50.000	51.668	-3.3	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.829	-1.7	105	0.01
28 T	Bromochloromethane	50.000	43.610	12.8	90	0.00
29 T	Tetrahydrofuran	250.000	209.726	16.1	84	0.01
30 C	Chloroform	50.000	49.720	0.6#	103	0.00
31 T	Cyclohexane	50.000	44.919	10.2	98	0.01
32 T	1,1,1-Trichloroethane	50.000	51.073	-2.1	106	0.00
33 S	1,2-Dichloroethane-d4	50.000	42.289	15.4	88	0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35 S	Dibromofluoromethane	50.000	48.190	3.6	94	0.01
36 T	1,1-Dichloropropene	50.000	52.071	-4.1	102	0.00
37 T	Ethyl Acetate	50.000	45.235	9.5	86	0.00
38 T	Carbon Tetrachloride	50.000	54.588	-9.2	108	0.00
39 T	Methylcyclohexane	50.000	52.539	-5.1	104	0.00
40 TM	Benzene	50.000	52.330	-4.7	102	0.01
41 T	Methacrylonitrile	50.000	43.788	12.4	82	0.00
42 TM	1,2-Dichloroethane	50.000	48.938	2.1	96	0.00
43 T	Isopropyl Acetate	50.000	45.435	9.1	88	0.00
44 TM	Trichloroethene	50.000	56.258	-12.5	111	0.00
45 C	1,2-Dichloropropane	50.000	51.190	-2.4#	100	0.00
46 T	Dibromomethane	50.000	51.367	-2.7	99	0.00
47 T	Bromodichloromethane	50.000	51.895	-3.8	100	0.00
48 T	Methyl methacrylate	50.000	45.346	9.3	83	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023214.D
 Acq On : 28 Aug 2025 09:03
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 LabSampleId :
 VSTDCCC050

Quant Time: Aug 29 02:05:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	918.124	8.2	88	0.00
50 S	Toluene-d8	50.000	48.285	3.4	94	0.00
51 T	4-Methyl-2-Pentanone	250.000	232.142	7.1	87	0.00
52 CM	Toluene	50.000	54.028	-8.1#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	51.578	-3.2	99	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.654	-3.3	99	0.00
55 T	1,1,2-Trichloroethane	50.000	51.410	-2.8	99	0.00
56 T	Ethyl methacrylate	50.000	50.950	-1.9	94	0.00
57 T	1,3-Dichloropropane	50.000	50.467	-0.9	98	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	215.441	13.8	78	0.00
59 T	2-Hexanone	250.000	240.449	3.8	89	0.00
60 T	Dibromochloromethane	50.000	53.251	-6.5	102	0.00
61 T	1,2-Dibromoethane	50.000	51.705	-3.4	99	0.01
62 S	4-Bromofluorobenzene	50.000	47.411	5.2	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.01
64 T	Tetrachloroethene	50.000	63.101	-26.2#	121	0.00
65 PM	Chlorobenzene	50.000	54.517	-9.0	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.483	-11.0	105	0.00
67 C	Ethyl Benzene	50.000	54.865	-9.7#	102	0.00
68 T	m/p-Xylenes	100.000	111.591	-11.6	105	0.00
69 T	o-Xylene	50.000	55.995	-12.0	103	0.00
70 T	Styrene	50.000	56.368	-12.7	104	0.00
71 P	Bromoform	50.000	54.582	-9.2	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73 T	Isopropylbenzene	50.000	56.707	-13.4	106	0.00
74 T	N-ethyl acetate	50.000	47.310	5.4	86	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	45.937	8.1	88	0.00
76 T	1,2,3-Trichloropropane	50.000	47.686	4.6	80	0.00
77 T	Bromobenzene	50.000	55.072	-10.1	104	0.01
78 T	n-propylbenzene	50.000	56.370	-12.7	104	0.00
79 T	2-Chlorotoluene	50.000	54.919	-9.8	103	0.01
80 T	1,3,5-Trimethylbenzene	50.000	56.427	-12.9	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.498	-3.0	96	0.00
82 T	4-Chlorotoluene	50.000	53.936	-7.9	101	0.01
83 T	tert-Butylbenzene	50.000	56.496	-13.0	104	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.157	-12.3	104	0.00
85 T	sec-Butylbenzene	50.000	56.942	-13.9	106	0.00
86 T	p-Isopropyltoluene	50.000	57.691	-15.4	106	0.00
87 T	1,3-Dichlorobenzene	50.000	55.474	-10.9	106	0.00
88 T	1,4-Dichlorobenzene	50.000	54.782	-9.6	104	0.00
89 T	n-Butylbenzene	50.000	56.594	-13.2	104	0.00
90 T	Hexachloroethane	50.000	56.605	-13.2	107	0.00
91 T	1,2-Dichlorobenzene	50.000	54.697	-9.4	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.288	7.4	85	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.347	-6.7	101	0.00
94 T	Hexachlorobutadiene	50.000	56.735	-13.5	108	0.00
95 T	Naphthalene	50.000	50.601	-1.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023214.D
Acq On : 28 Aug 2025 09:03
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 29 02:05:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.515	-5.0	100	0.00

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



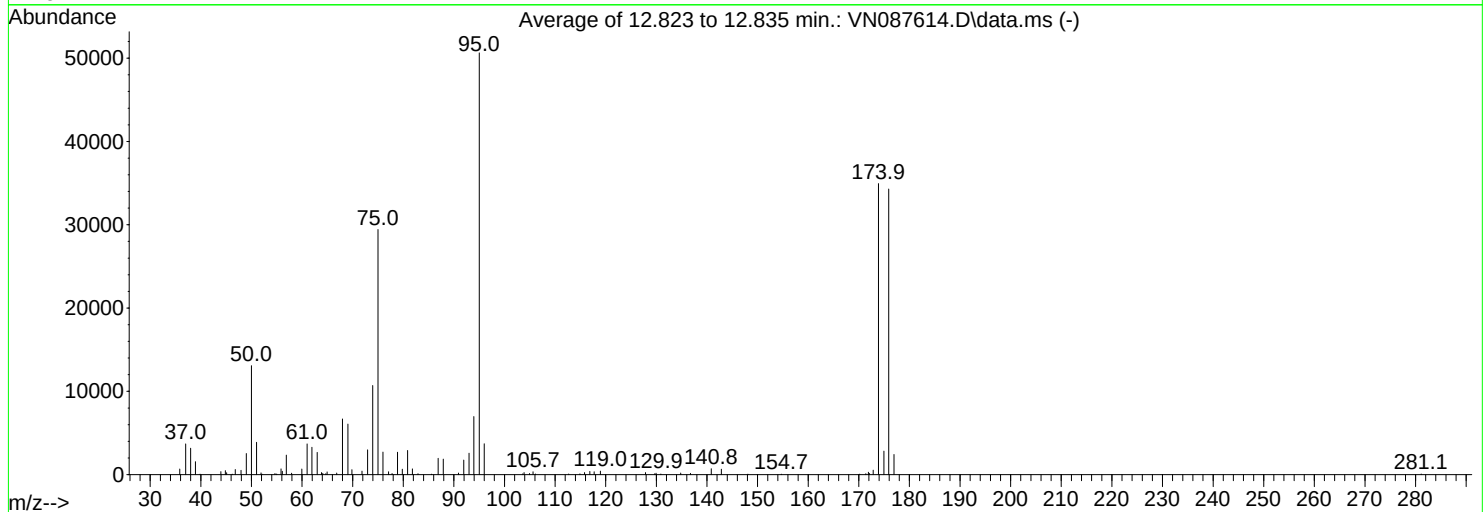
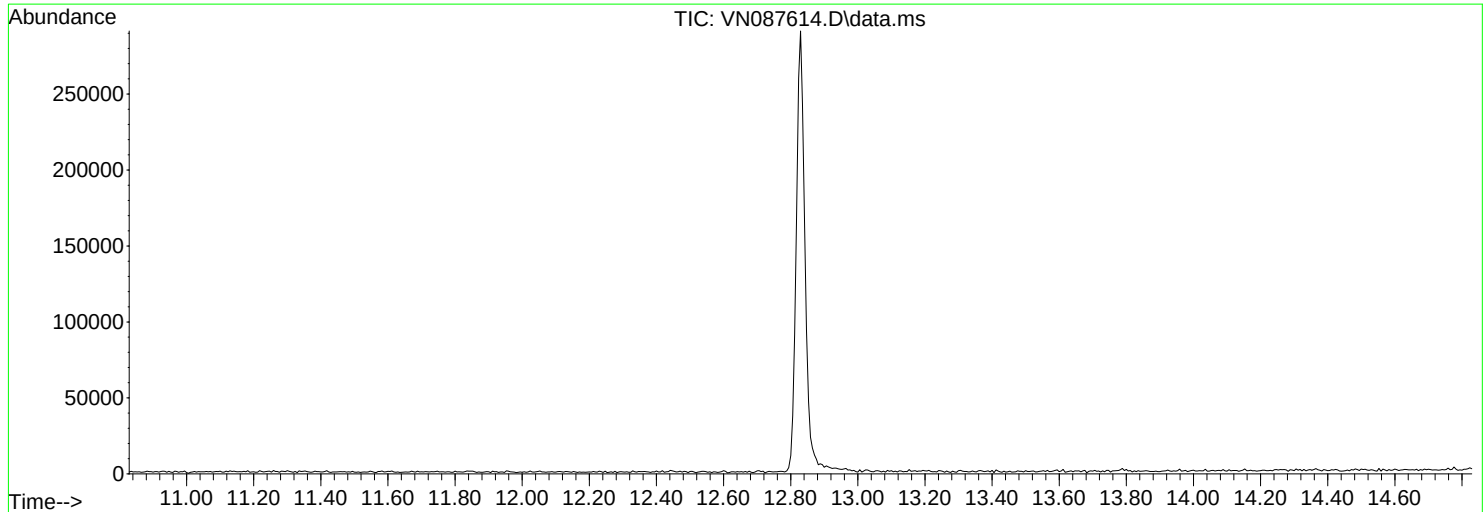
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087614.D
Acq On : 21 Aug 2025 09:30
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Title : SW846 8260
Last Update : Fri Aug 22 02:55:42 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	13089	PASS
75	95	30	60	58.1	29435	PASS
95	95	100	100	100.0	50640	PASS
96	95	5	9	7.3	3712	PASS
173	174	0.00	2	1.6	548	PASS
174	95	50	100	69.0	34952	PASS
175	174	5	9	8.1	2829	PASS
176	174	95	101	98.1	34291	PASS
177	176	5	9	7.1	2426	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	675	49.00	2529	59.95	672	69.85	591
37.00	3688	50.00	13089	61.00	3695	71.85	411
38.00	3178	51.00	3882	61.95	3294	72.95	297
38.95	1555	51.90	219	63.00	2681	73.95	1069
39.85	60	52.10	64	63.85	251	75.00	29435
43.95	374	54.65	128	64.10	153	76.00	2714
44.85	476	55.00	70	64.70	121	77.10	352
45.10	237	55.85	685	64.95	324	77.80	133
46.20	55	56.10	397	66.85	193	78.85	2691
46.80	616	56.90	2340	68.00	6681	79.80	662
47.95	526	57.95	176	69.05	6065	80.85	2901

Average of 12.823 to 12.835 min.: VN087614.D\data.ms

BFB

Modified:subtracted

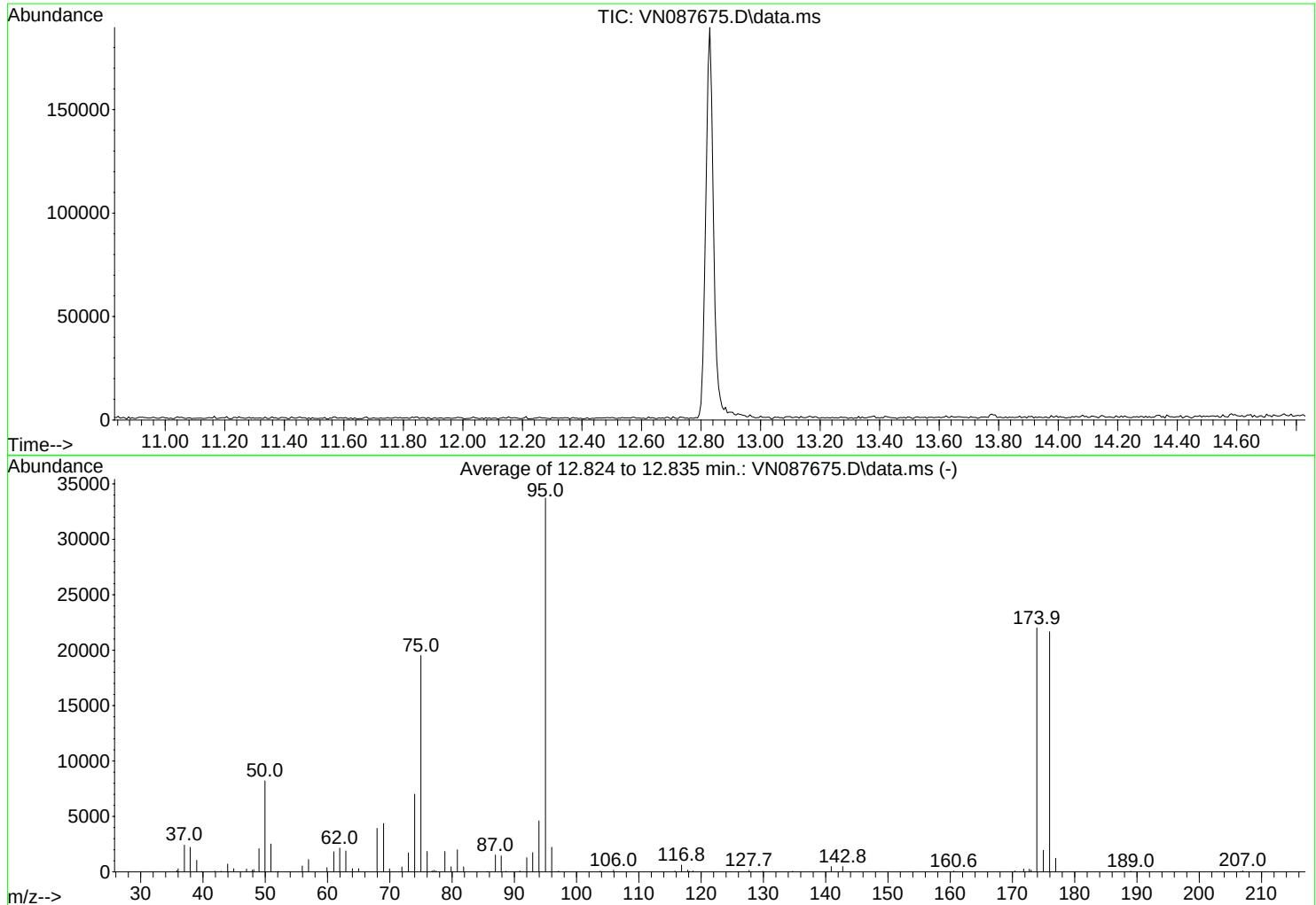
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.80	684	103.60	98	127.85	257	171.40	114
82.90	109	103.85	252	129.70	113	171.90	297
85.60	55	104.95	136	129.95	176	172.10	131
86.90	1959	105.65	343	130.90	79	172.85	548
87.90	1858	106.10	71	134.80	197	173.90	34952
90.90	194	112.70	85	136.75	152	174.95	2829
91.95	1755	114.90	88	140.85	705	175.90	34291
93.00	2573	115.80	249	142.85	649	176.95	2426
93.95	6967	116.85	391	148.10	51	281.10	79
95.00	50640	117.70	342	154.70	64		
96.00	3712	118.95	421	170.20	52		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087675.D
Acq On : 28 Aug 2025 11:00
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Title : SW846 8260
Last Update : Fri Aug 22 02:55:42 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1840

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	8213	PASS
75	95	30	60	57.9	19520	PASS
95	95	100	100	100.0	33725	PASS
96	95	5	9	6.6	2230	PASS
173	174	0.00	2	1.1	243	PASS
174	95	50	100	65.2	22000	PASS
175	174	5	9	8.8	1947	PASS
176	174	95	101	98.5	21661	PASS
177	176	5	9	5.7	1232	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	113	47.90	161	62.95	1895	76.80	81
36.00	277	48.15	218	64.00	296	77.10	15
37.00	2421	49.00	2103	65.00	292	77.40	8
37.95	2217	49.95	8213	67.95	3924	78.85	184
39.00	1053	50.90	2518	69.00	4369	79.85	460
39.80	54	52.10	52	69.95	287	80.85	1997
41.90	75	55.95	539	71.95	447	81.85	462
42.90	67	56.95	1119	73.00	1711	85.70	54
43.95	706	59.90	385	74.00	7007	86.95	1525
44.95	290	61.00	1820	75.00	19520	87.90	1440
47.00	257	61.95	2153	76.00	1846	88.70	68

Average of 12.824 to 12.835 min.: VN087675.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.90	89	117.85	173	172.70	243		
92.00	1281	118.10	53	173.00	164		
92.95	1738	118.70	84	173.90	22000		
93.95	4607	127.70	144	174.95	1947		
95.00	33725	129.90	58	175.95	21661		
96.00	2230	134.70	64	176.95	1232		
97.10	72	140.90	486	189.00	65		
103.80	81	142.75	488	206.70	55		
105.95	171	160.60	86	207.00	109		
115.80	89	170.40	85				
116.85	616	171.80	268				

Instrument :

MSVOA_N

ClientSampleId :

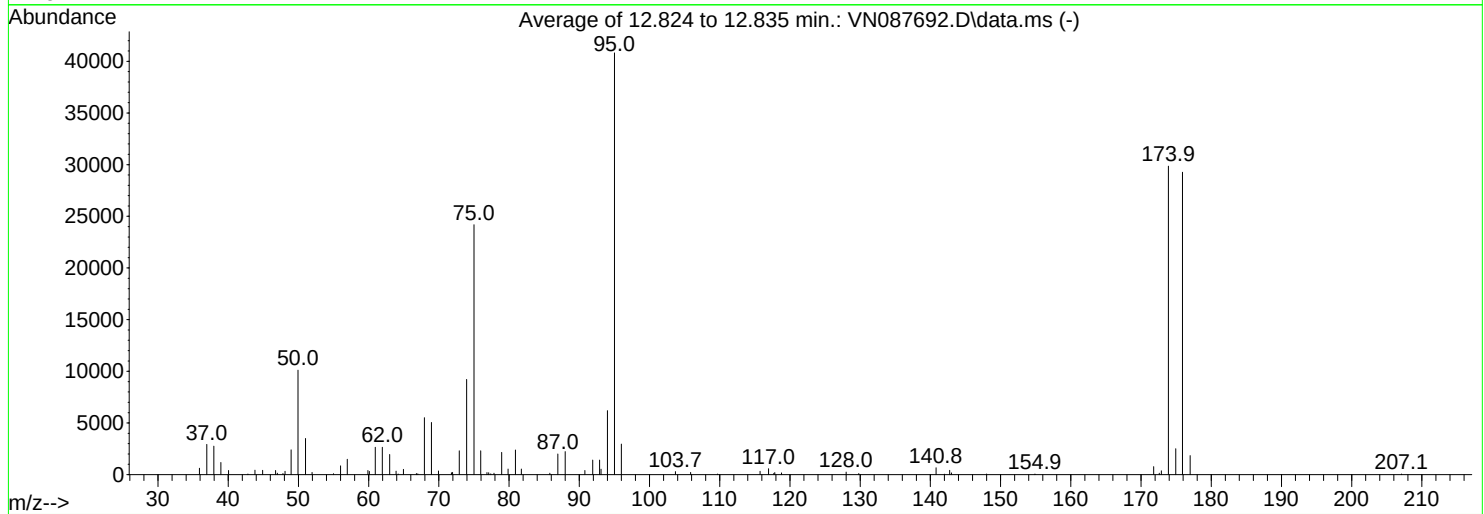
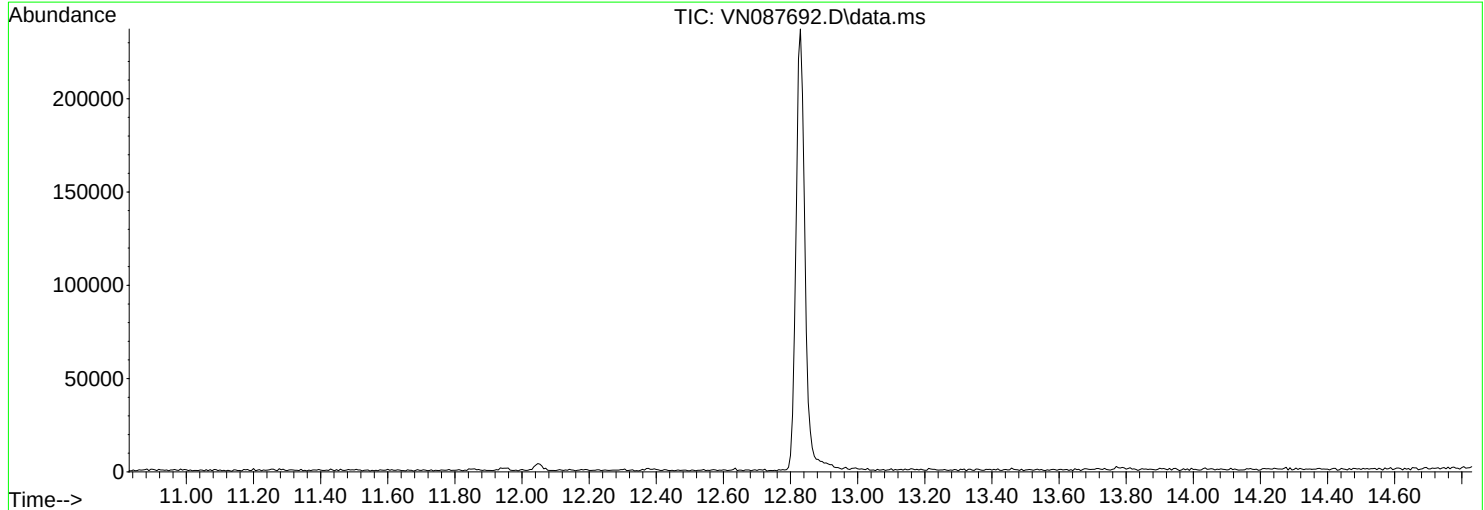
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087692.D
Acq On : 29 Aug 2025 11:32
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Title : SW846 8260
Last Update : Fri Aug 22 02:55:42 2025



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	10113	PASS
75	95	30	60	59.3	24195	PASS
95	95	100	100	100.0	40819	PASS
96	95	5	9	7.3	2961	PASS
173	174	0.00	2	1.2	372	PASS
174	95	50	100	73.1	29851	PASS
175	174	5	9	8.4	2509	PASS
176	174	95	101	98.1	29272	PASS
177	176	5	9	6.3	1838	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	623	48.10	331	61.95	2647	71.95	221
36.95	2925	48.95	2403	63.00	1956	72.90	2306
37.95	2757	49.95	10113	63.90	334	73.95	921
38.95	1179	51.00	3496	64.20	57	75.00	2419
40.05	411	51.95	217	64.95	513	75.95	2306
42.80	65	55.00	98	66.80	107	76.85	197
43.80	435	56.00	856	67.00	84	77.10	185
44.90	420	56.95	1483	67.95	5511	77.40	82
46.75	404	59.90	396	68.95	5042	77.85	145
47.00	143	60.10	307	69.95	362	78.95	2153
47.80	117	60.95	2647	71.80	187	79.85	540

Average of 12.824 to 12.835 min.: VN087692.D\data.ms

BFB

Modified:subtracted

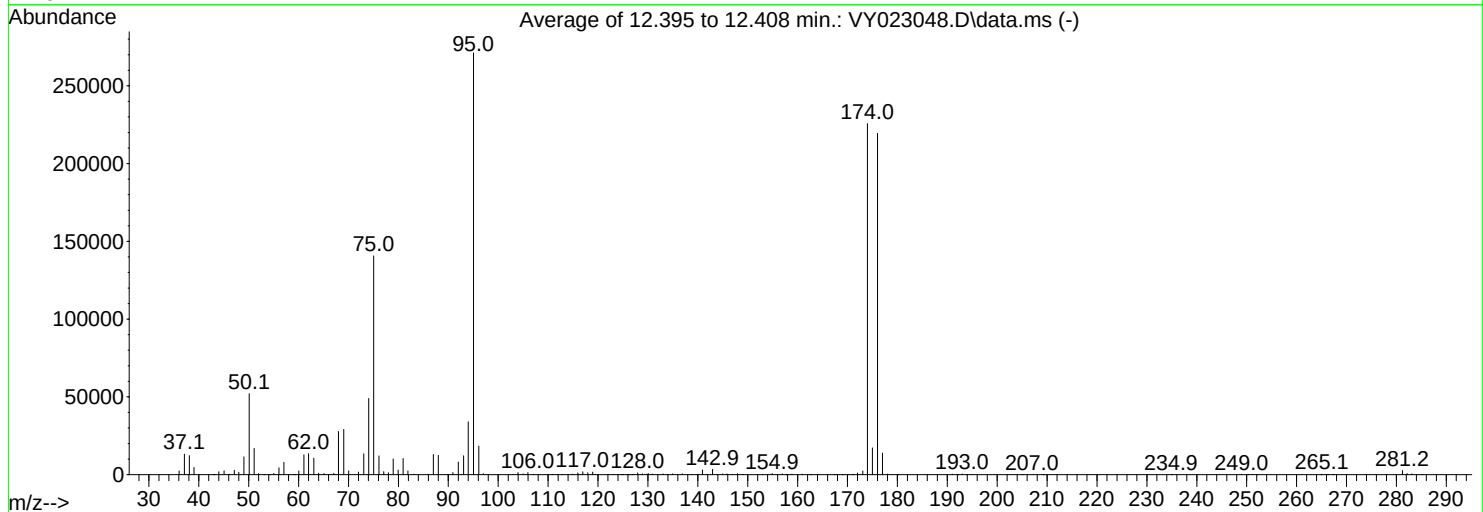
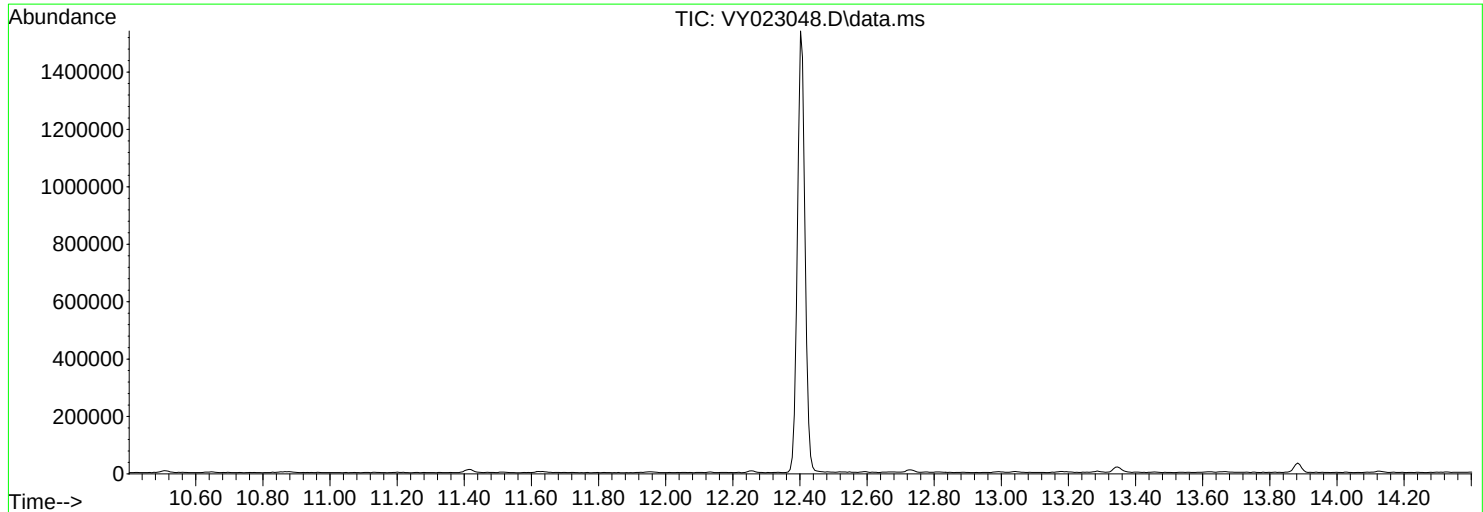
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	2382	96.00	2961	140.80	671	175.90	29272
81.75	536	103.70	292	142.00	54	177.00	1838
85.80	139	105.85	214	142.75	412	207.10	56
86.95	1998	109.70	67	143.00	177		
88.00	2230	115.75	321	148.00	63		
90.80	401	116.95	569	154.90	62		
91.90	1411	117.70	124	171.80	777		
92.90	1404	117.85	197	172.60	146		
93.10	521	118.80	179	172.90	372		
94.00	6188	128.00	242	173.90	29851		
95.00	40819	129.80	117	174.95	2509		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023048.D
Acq On : 12 Aug 2025 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025



AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

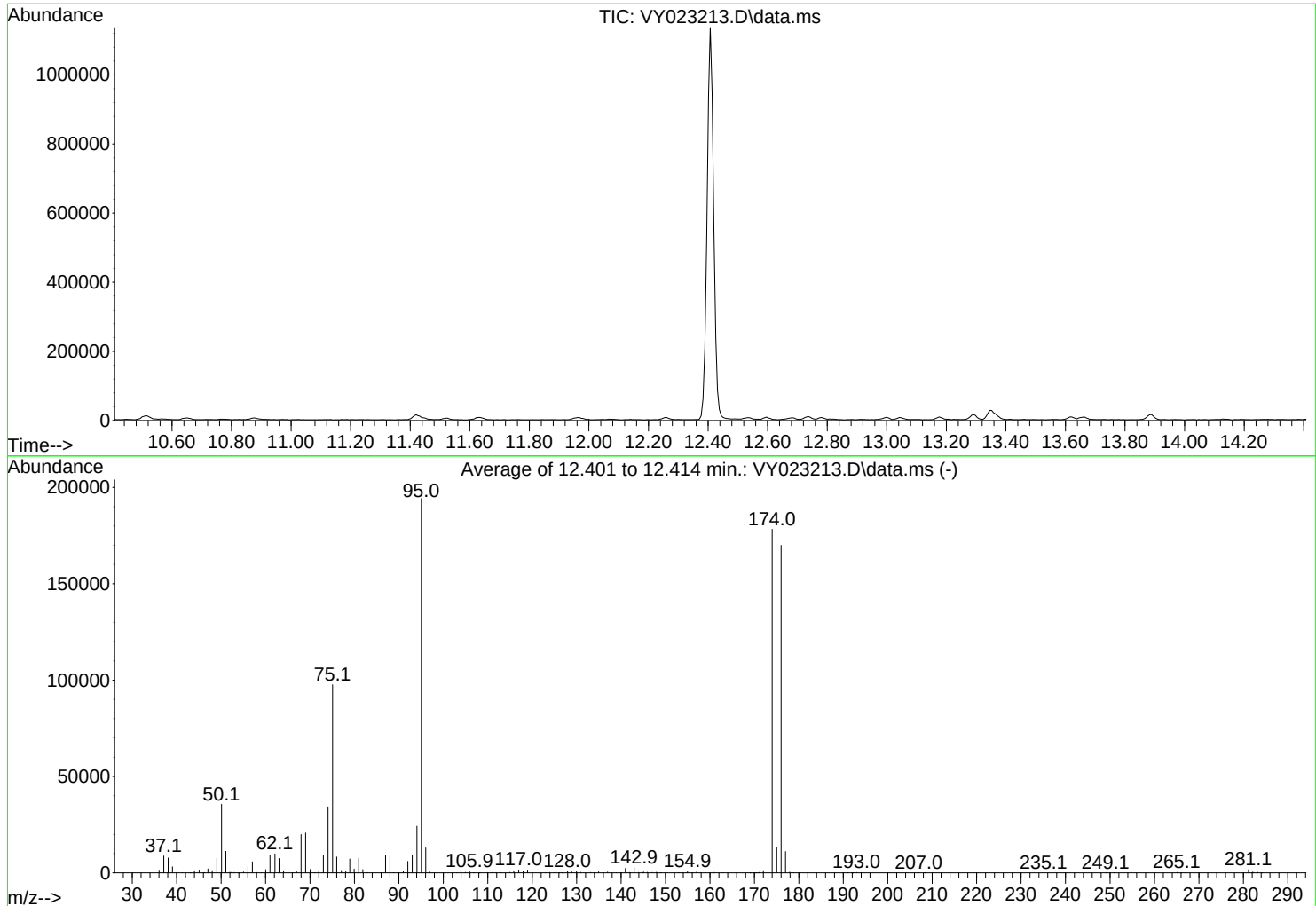
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	52107	PASS
75	95	30	60	51.9	140677	PASS
95	95	100	100	100.0	271211	PASS
96	95	5	9	6.8	18415	PASS
173	174	0.00	2	1.1	2383	PASS
174	95	50	100	83.2	225707	PASS
175	174	5	9	7.6	17158	PASS
176	174	95	101	97.2	219435	PASS
177	176	5	9	6.4	13937	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023213.D
Acq On : 28 Aug 2025 07:57
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.3	35571	PASS
75	95	30	60	50.3	97643	PASS
95	95	100	100	100.0	194197	PASS
96	95	5	9	6.7	12987	PASS
173	174	0.00	2	1.0	1865	PASS
174	95	50	100	91.8	178261	PASS
175	174	5	9	7.5	13364	PASS
176	174	95	101	95.3	169963	PASS
177	176	5	9	6.5	11046	PASS

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0828MBL01	SDG No.:	Q2964
Lab Sample ID:	VN0828MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087677.D	1	08/28/25 12:09	VN082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	110	U	110	500	ug/Kg
74-87-3	Chloromethane	110	U	110	500	ug/Kg
75-01-4	Vinyl Chloride	79.0	U	79.0	500	ug/Kg
74-83-9	Bromomethane	110	U	110	500	ug/Kg
75-00-3	Chloroethane	130	U	130	500	ug/Kg
75-69-4	Trichlorofluoromethane	120	U	120	500	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	110	U	110	500	ug/Kg
75-35-4	1,1-Dichloroethene	100	U	100	500	ug/Kg
67-64-1	Acetone	470	U	470	2500	ug/Kg
75-15-0	Carbon Disulfide	110	U	110	500	ug/Kg
1634-04-4	Methyl tert-butyl Ether	73.0	U	73.0	500	ug/Kg
79-20-9	Methyl Acetate	150	U	150	500	ug/Kg
75-09-2	Methylene Chloride	350	U	350	1000	ug/Kg
156-60-5	trans-1,2-Dichloroethene	86.0	U	86.0	500	ug/Kg
75-34-3	1,1-Dichloroethane	80.0	U	80.0	500	ug/Kg
110-82-7	Cyclohexane	79.0	U	79.0	500	ug/Kg
78-93-3	2-Butanone	650	U	650	2500	ug/Kg
56-23-5	Carbon Tetrachloride	97.0	U	97.0	500	ug/Kg
156-59-2	cis-1,2-Dichloroethene	75.0	U	75.0	500	ug/Kg
74-97-5	Bromochloromethane	120	U	120	500	ug/Kg
67-66-3	Chloroform	84.0	U	84.0	500	ug/Kg
71-55-6	1,1,1-Trichloroethane	93.0	U	93.0	500	ug/Kg
108-87-2	Methylcyclohexane	91.0	U	91.0	500	ug/Kg
71-43-2	Benzene	79.0	U	79.0	500	ug/Kg
107-06-2	1,2-Dichloroethane	79.0	U	79.0	500	ug/Kg
79-01-6	Trichloroethene	81.0	U	81.0	500	ug/Kg
78-87-5	1,2-Dichloropropane	91.0	U	91.0	500	ug/Kg
75-27-4	Bromodichloromethane	78.0	U	78.0	500	ug/Kg
108-10-1	4-Methyl-2-Pentanone	360	U	360	2500	ug/Kg
108-88-3	Toluene	78.0	U	78.0	500	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0828MBL01	SDG No.:	Q2964
Lab Sample ID:	VN0828MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087677.D	1	08/28/25 12:09	VN082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	65.0	U	65.0	500	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	62.0	U	62.0	500	ug/Kg
79-00-5	1,1,2-Trichloroethane	92.0	U	92.0	500	ug/Kg
591-78-6	2-Hexanone	370	U	370	2500	ug/Kg
124-48-1	Dibromochloromethane	87.0	U	87.0	500	ug/Kg
106-93-4	1,2-Dibromoethane	88.0	U	88.0	500	ug/Kg
127-18-4	Tetrachloroethene	110	U	110	500	ug/Kg
108-90-7	Chlorobenzene	91.0	U	91.0	500	ug/Kg
100-41-4	Ethyl Benzene	67.0	U	67.0	500	ug/Kg
179601-23-1	m/p-Xylenes	120	U	120	1000	ug/Kg
95-47-6	o-Xylene	82.0	U	82.0	500	ug/Kg
100-42-5	Styrene	71.0	U	71.0	500	ug/Kg
75-25-2	Bromoform	86.0	U	86.0	500	ug/Kg
98-82-8	Isopropylbenzene	78.0	U	78.0	500	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	120	U	120	500	ug/Kg
541-73-1	1,3-Dichlorobenzene	170	U	170	500	ug/Kg
106-46-7	1,4-Dichlorobenzene	160	U	160	500	ug/Kg
95-50-1	1,2-Dichlorobenzene	150	U	150	500	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	180	U	180	500	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	300	U	300	500	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	320	U	320	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		70 (63) - 130 (155)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (70) - 130 (134)	101%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		70 (17) - 130 (146)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	8.206			
540-36-3	1,4-Difluorobenzene	389000	9.082			
3114-55-4	Chlorobenzene-d5	355000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	163000	13.77			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Buff		Date Received:	
Client Sample ID:	VN0828MBL01		SDG No.:	Q2964
Lab Sample ID:	VN0828MBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	MED
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087677.D	1	08/28/25 12:09	VN082825

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087677.D
Acq On : 28 Aug 2025 12:09
Operator : JC\MD
Sample : VN0828MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

Quant Time: Aug 29 03:15:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	165959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	389198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	354647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	163207	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	187733	55.211	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.420%
35) Dibromofluoromethane	8.153	113	142337	50.654	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.300%
50) Toluene-d8	10.547	98	505630	48.076	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.160%
62) 4-Bromofluorobenzene	12.829	95	168747	45.116	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.240%

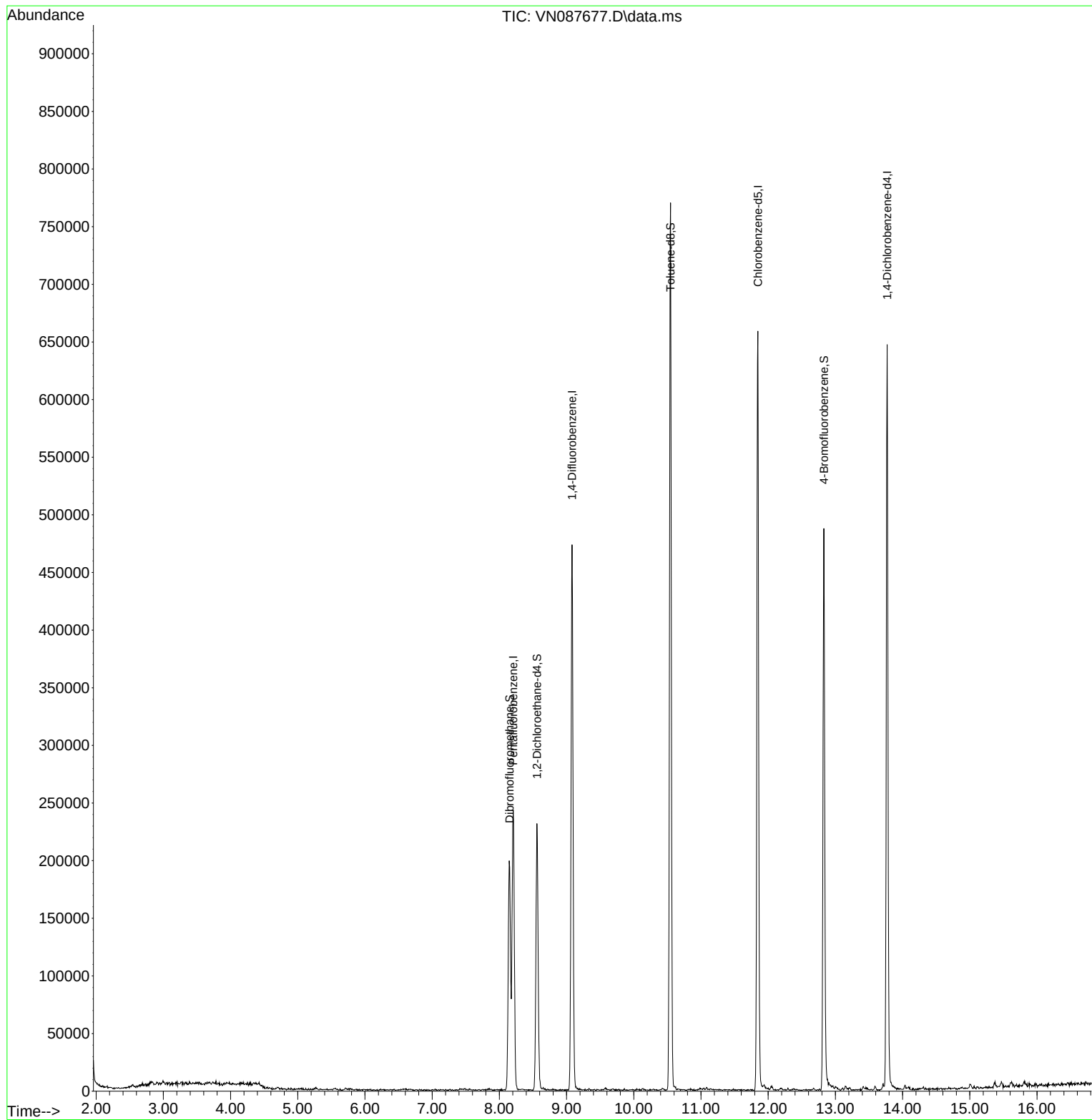
Target Compounds	Qvalue

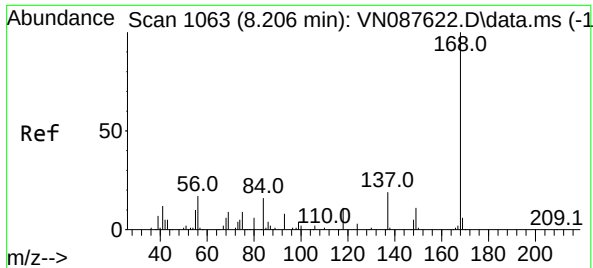
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087677.D
Acq On : 28 Aug 2025 12:09
Operator : JC\MD
Sample : VN0828MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

Quant Time: Aug 29 03:15:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

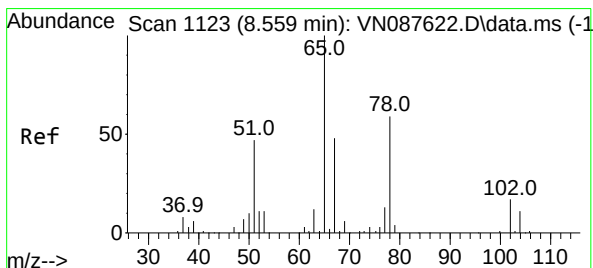
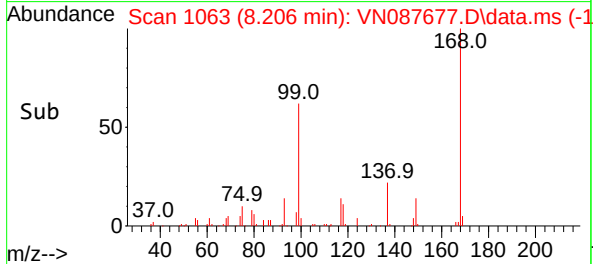
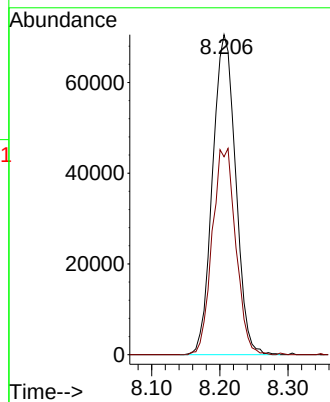
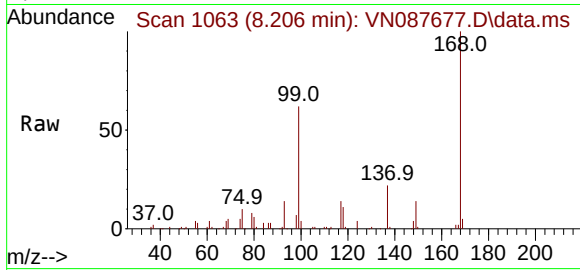




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087677.D
Acq: 28 Aug 2025 12:09

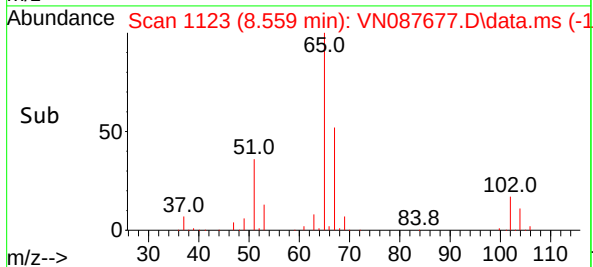
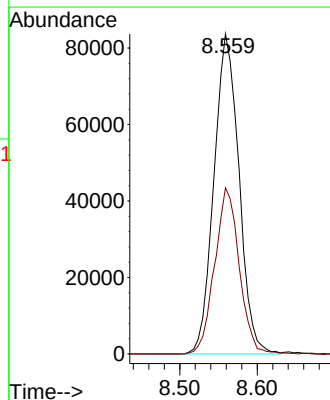
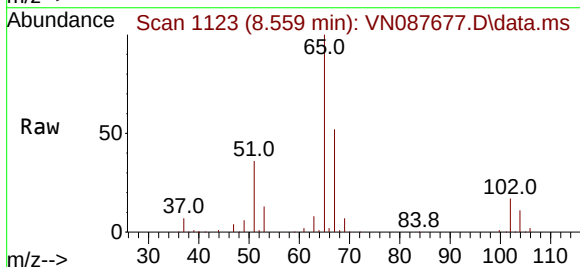
Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

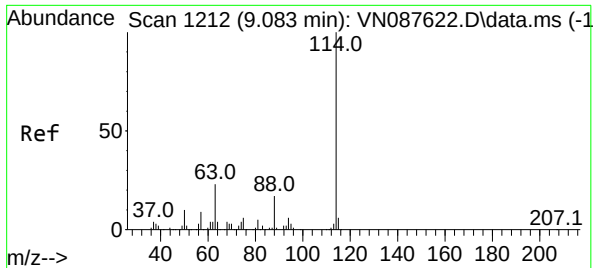
Tgt Ion:168 Resp: 165959
Ion Ratio Lower Upper
168 100
99 61.8 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 55.211 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087677.D
Acq: 28 Aug 2025 12:09

Tgt Ion: 65 Resp: 187733
Ion Ratio Lower Upper
65 100
67 51.0 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: VN087677.D

Acq: 28 Aug 2025 12:09

Instrument :

MSVOA_N

ClientSampleId :

VN0828MBL01

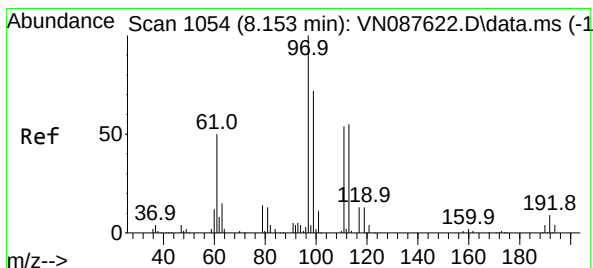
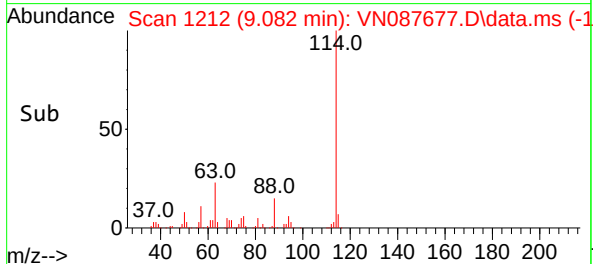
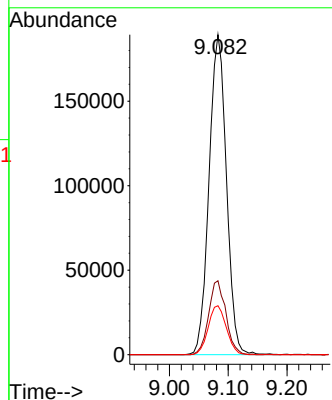
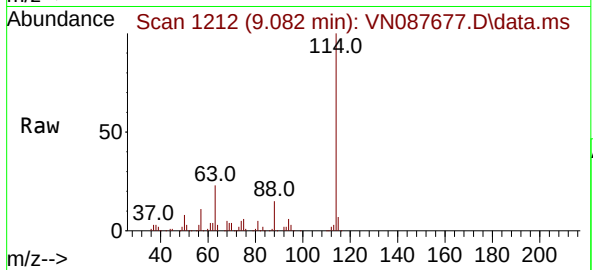
Tgt Ion:114 Resp: 389198

Ion Ratio Lower Upper

114 100

63 23.1 0.0 45.2

88 15.3 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.654 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087677.D

Acq: 28 Aug 2025 12:09

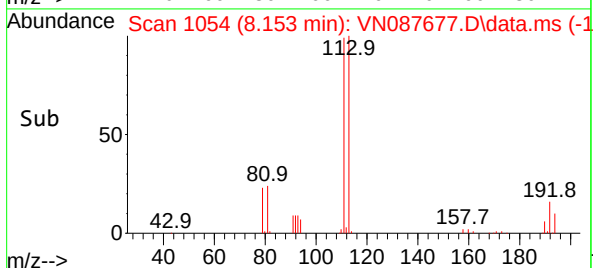
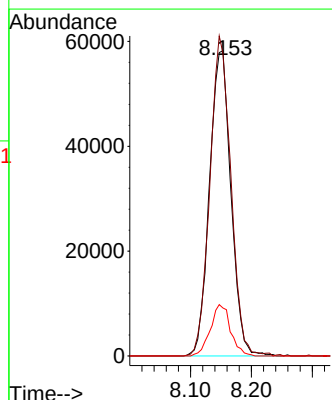
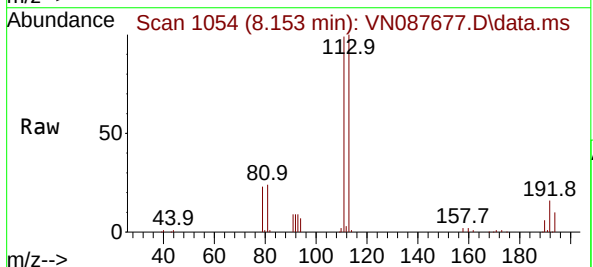
Tgt Ion:113 Resp: 142337

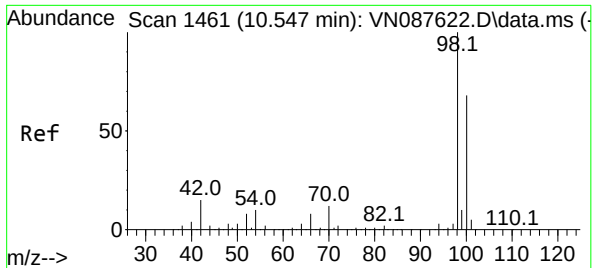
Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

192 15.9 12.8 19.2

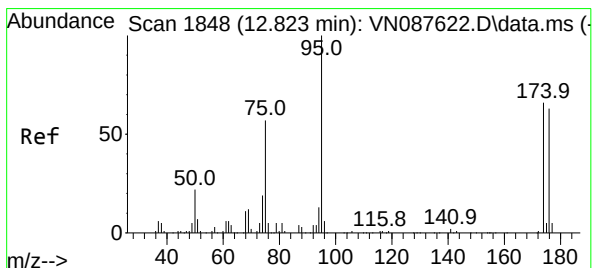
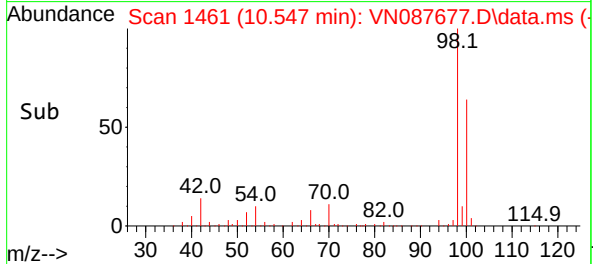
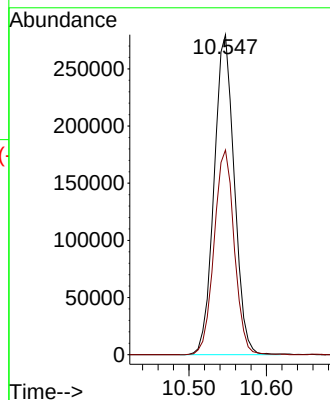
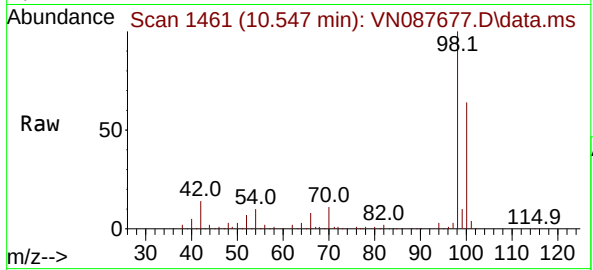




#50
Toluene-d8
Concen: 48.076 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087677.D
Acq: 28 Aug 2025 12:09

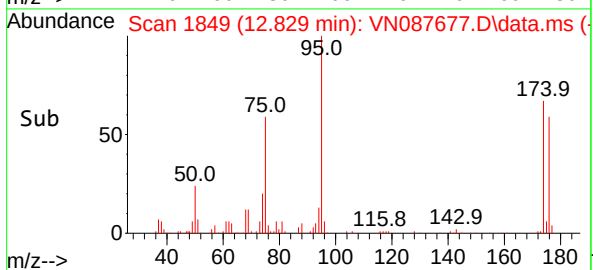
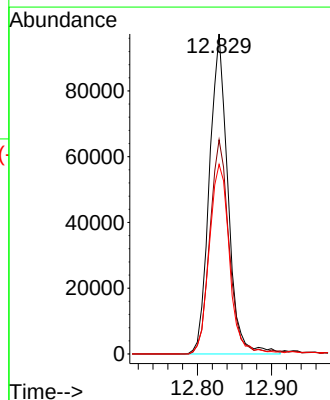
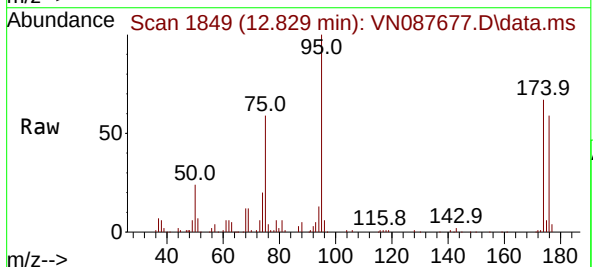
Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

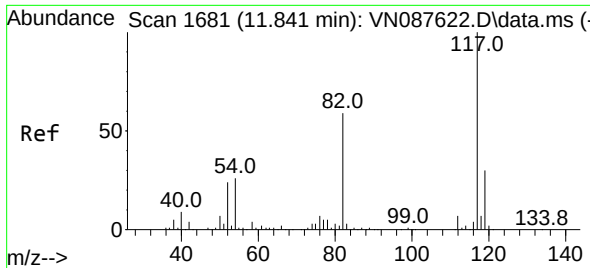
Tgt Ion: 98 Resp: 505630
Ion Ratio Lower Upper
98 100
100 64.0 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 45.116 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087677.D
Acq: 28 Aug 2025 12:09

Tgt Ion: 95 Resp: 168747
Ion Ratio Lower Upper
95 100
174 69.7 0.0 138.4
176 64.8 0.0 132.6

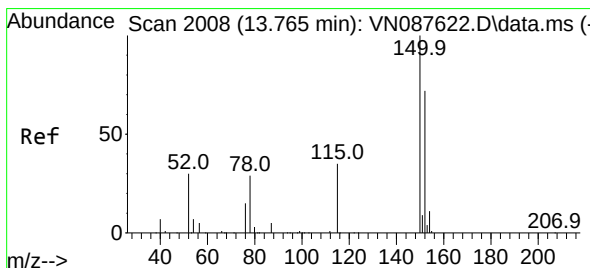
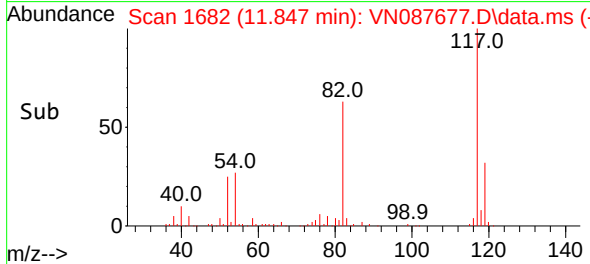
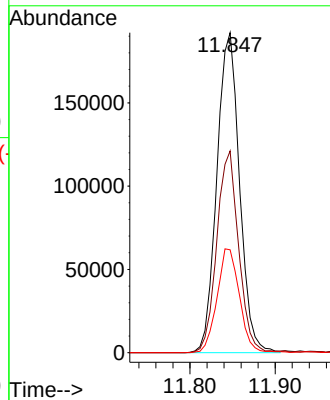
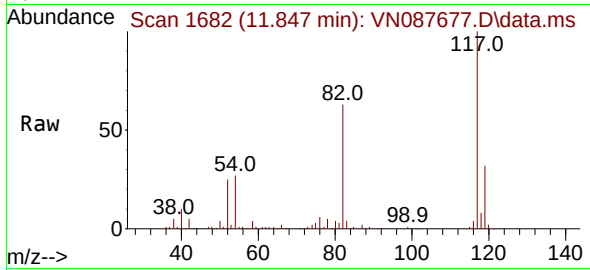




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN087677.D
Acq: 28 Aug 2025 12:09

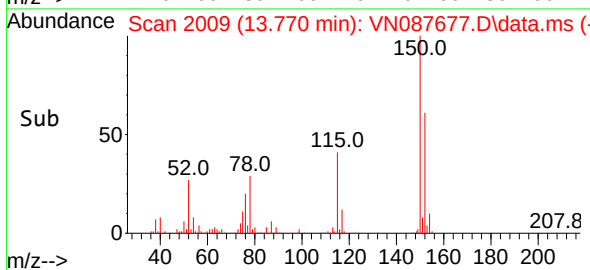
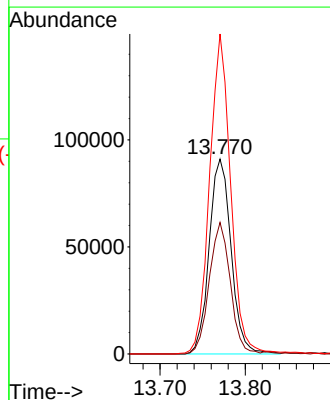
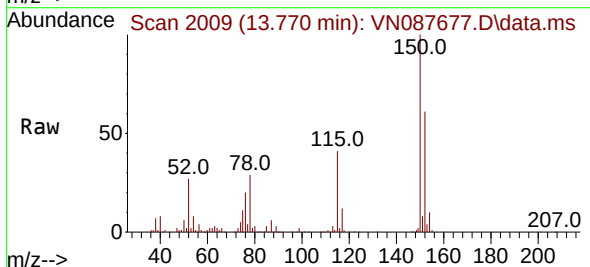
Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

Tgt Ion:117 Resp: 354647
Ion Ratio Lower Upper
117 100
82 63.1 47.4 71.2
119 32.2 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: VN087677.D
Acq: 28 Aug 2025 12:09

Tgt Ion:152 Resp: 163207
Ion Ratio Lower Upper
152 100
115 64.4 32.3 96.8
150 157.6 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087677.D
Acq On : 28 Aug 2025 12:09
Operator : JC\MD
Sample : VN0828MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

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\82N082125W.M

Title : SW846 8260

Signal : TIC: VN087677.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.147	1043	1053	1058	rBV	199107	485417	34.50%	6.774%
2	8.206	1058	1063	1075	rVB	243014	563361	40.03%	7.862%
3	8.559	1113	1123	1136	rBV	231480	522235	37.11%	7.288%
4	9.082	1203	1212	1225	rBV	473180	983935	69.92%	13.732%
5	10.547	1451	1461	1469	rBV	769878	1407186	100.00%	19.639%
6	11.847	1673	1682	1694	rBV	658686	1213593	86.24%	16.937%
7	12.829	1841	1849	1860	rBV	487545	870896	61.89%	12.154%
8	13.770	2002	2009	2023	rVB	643790	1118746	79.50%	15.613%

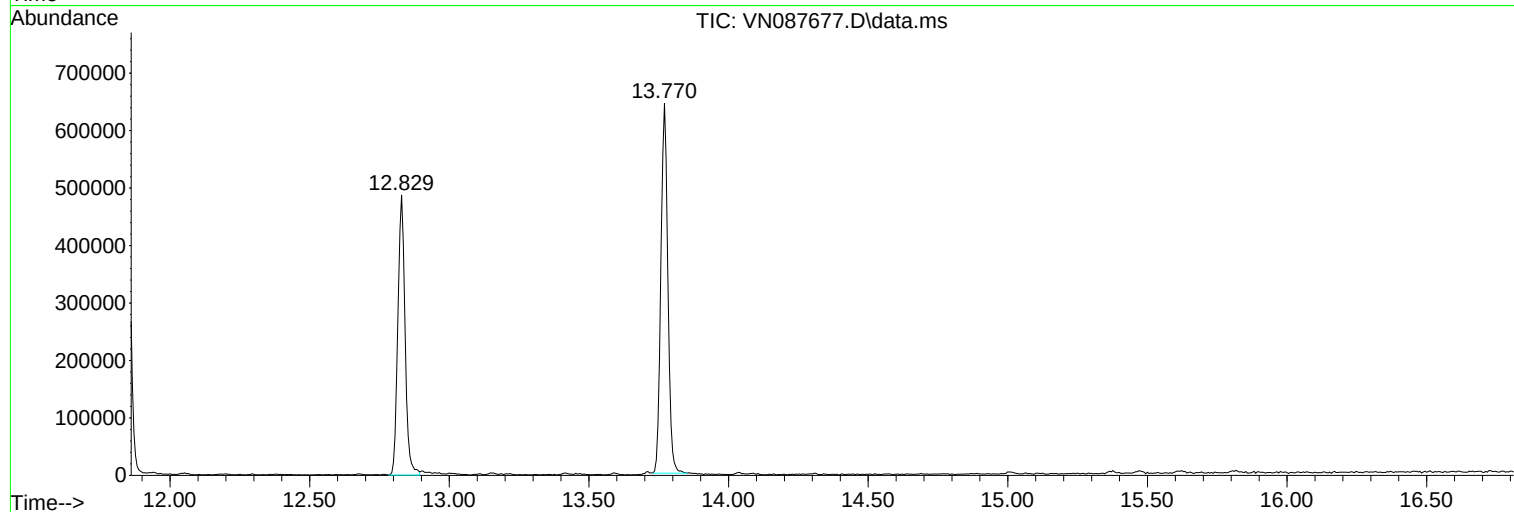
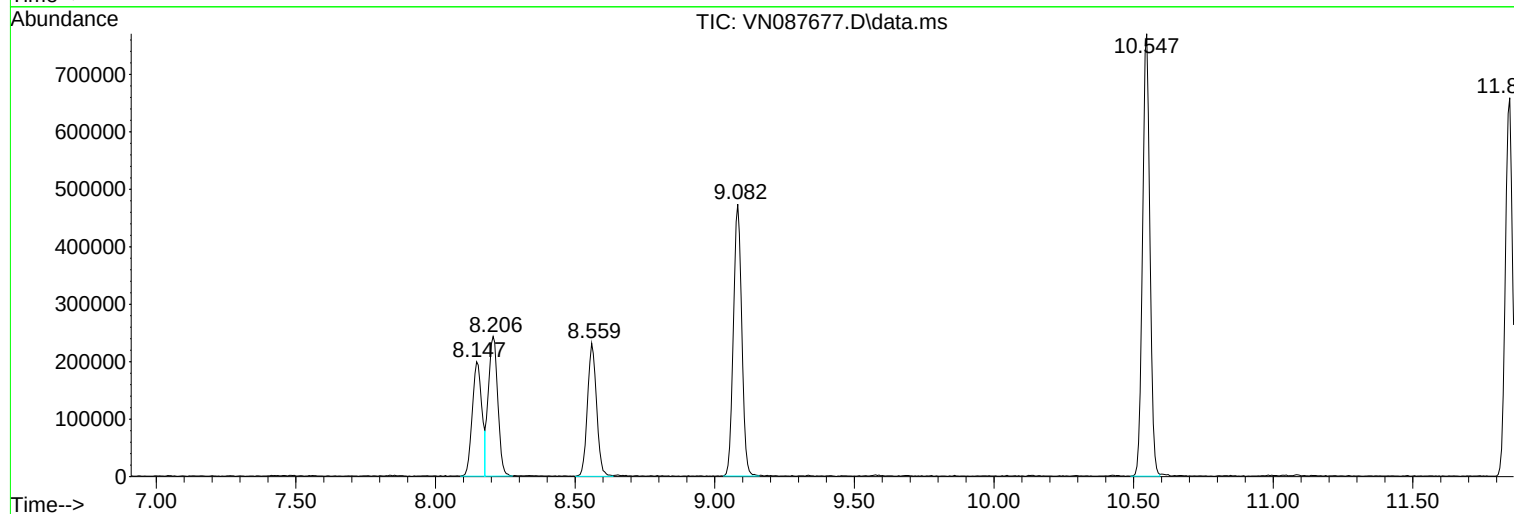
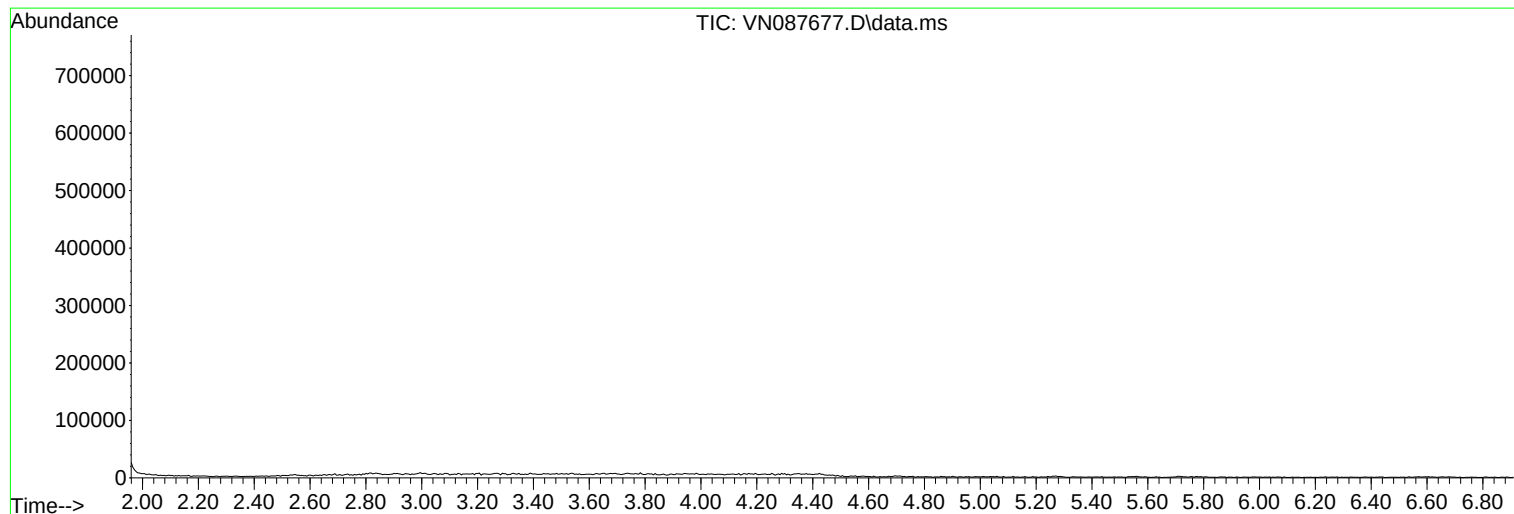
Sum of corrected areas: 7165369

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087677.D
Acq On : 28 Aug 2025 12:09
Operator : JC\MD
Sample : VN0828MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087677.D
Acq On : 28 Aug 2025 12:09
Operator : JC\MD
Sample : VN0828MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087677.D
Acq On : 28 Aug 2025 12:09
Operator : JC\MD
Sample : VN0828MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0829MBL01	SDG No.:	Q2964
Lab Sample ID:	VN0829MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087694.D	1	08/29/25 12:42	VN082925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	110	U	110	500	ug/Kg
74-87-3	Chloromethane	110	U	110	500	ug/Kg
75-01-4	Vinyl Chloride	79.0	U	79.0	500	ug/Kg
74-83-9	Bromomethane	110	U	110	500	ug/Kg
75-00-3	Chloroethane	130	U	130	500	ug/Kg
75-69-4	Trichlorofluoromethane	120	U	120	500	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	110	U	110	500	ug/Kg
75-35-4	1,1-Dichloroethene	100	U	100	500	ug/Kg
67-64-1	Acetone	470	U	470	2500	ug/Kg
75-15-0	Carbon Disulfide	110	U	110	500	ug/Kg
1634-04-4	Methyl tert-butyl Ether	73.0	U	73.0	500	ug/Kg
79-20-9	Methyl Acetate	150	U	150	500	ug/Kg
75-09-2	Methylene Chloride	350	U	350	1000	ug/Kg
156-60-5	trans-1,2-Dichloroethene	86.0	U	86.0	500	ug/Kg
75-34-3	1,1-Dichloroethane	80.0	U	80.0	500	ug/Kg
110-82-7	Cyclohexane	79.0	U	79.0	500	ug/Kg
78-93-3	2-Butanone	650	U	650	2500	ug/Kg
56-23-5	Carbon Tetrachloride	97.0	U	97.0	500	ug/Kg
156-59-2	cis-1,2-Dichloroethene	75.0	U	75.0	500	ug/Kg
74-97-5	Bromochloromethane	120	U	120	500	ug/Kg
67-66-3	Chloroform	84.0	U	84.0	500	ug/Kg
71-55-6	1,1,1-Trichloroethane	93.0	U	93.0	500	ug/Kg
108-87-2	Methylcyclohexane	91.0	U	91.0	500	ug/Kg
71-43-2	Benzene	79.0	U	79.0	500	ug/Kg
107-06-2	1,2-Dichloroethane	79.0	U	79.0	500	ug/Kg
79-01-6	Trichloroethene	81.0	U	81.0	500	ug/Kg
78-87-5	1,2-Dichloropropane	91.0	U	91.0	500	ug/Kg
75-27-4	Bromodichloromethane	78.0	U	78.0	500	ug/Kg
108-10-1	4-Methyl-2-Pentanone	360	U	360	2500	ug/Kg
108-88-3	Toluene	78.0	U	78.0	500	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0829MBL01	SDG No.:	Q2964
Lab Sample ID:	VN0829MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087694.D	1	08/29/25 12:42	VN082925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	65.0	U	65.0	500	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	62.0	U	62.0	500	ug/Kg
79-00-5	1,1,2-Trichloroethane	92.0	U	92.0	500	ug/Kg
591-78-6	2-Hexanone	370	U	370	2500	ug/Kg
124-48-1	Dibromochloromethane	87.0	U	87.0	500	ug/Kg
106-93-4	1,2-Dibromoethane	88.0	U	88.0	500	ug/Kg
127-18-4	Tetrachloroethene	110	U	110	500	ug/Kg
108-90-7	Chlorobenzene	91.0	U	91.0	500	ug/Kg
100-41-4	Ethyl Benzene	67.0	U	67.0	500	ug/Kg
179601-23-1	m/p-Xylenes	120	U	120	1000	ug/Kg
95-47-6	o-Xylene	82.0	U	82.0	500	ug/Kg
100-42-5	Styrene	71.0	U	71.0	500	ug/Kg
75-25-2	Bromoform	86.0	U	86.0	500	ug/Kg
98-82-8	Isopropylbenzene	78.0	U	78.0	500	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	120	U	120	500	ug/Kg
541-73-1	1,3-Dichlorobenzene	170	U	170	500	ug/Kg
106-46-7	1,4-Dichlorobenzene	160	U	160	500	ug/Kg
95-50-1	1,2-Dichlorobenzene	150	U	150	500	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	180	U	180	500	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	300	U	300	500	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	320	U	320	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		70 (63) - 130 (155)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	49.2		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		70 (17) - 130 (146)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	149000	8.206			
540-36-3	1,4-Difluorobenzene	347000	9.082			
3114-55-4	Chlorobenzene-d5	324000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.77			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0829MBL01	SDG No.:	Q2964
Lab Sample ID:	VN0829MBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087694.D	1	08/29/25 12:42	VN082925

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087694.D
 Acq On : 29 Aug 2025 12:42
 Operator : JC\MD
 Sample : VN0829MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBL01

Quant Time: Aug 29 22:52:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	149197	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	346944	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	324171	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	144779	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	169537	55.461	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.920%
35) Dibromofluoromethane	8.153	113	127588	50.935	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.860%
50) Toluene-d8	10.547	98	461268	49.199	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.400%
62) 4-Bromofluorobenzene	12.829	95	149763	44.917	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	89.840%

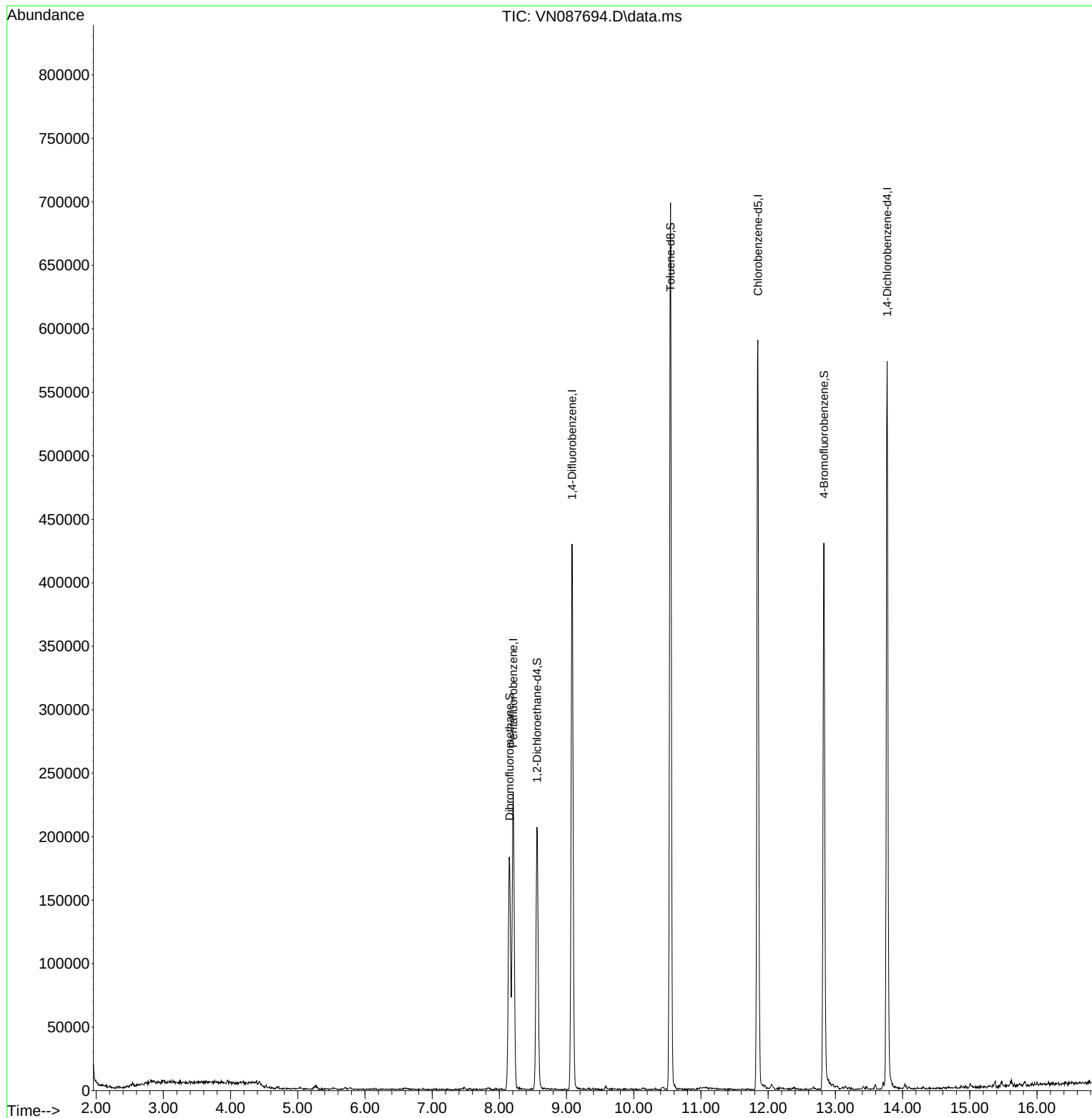
Target Compounds	Qvalue

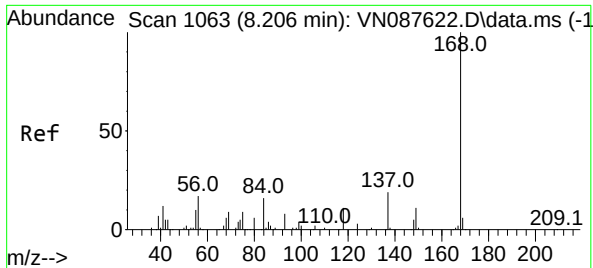
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087694.D
Acq On : 29 Aug 2025 12:42
Operator : JC\MD
Sample : VN0829MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

Quant Time: Aug 29 22:52:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

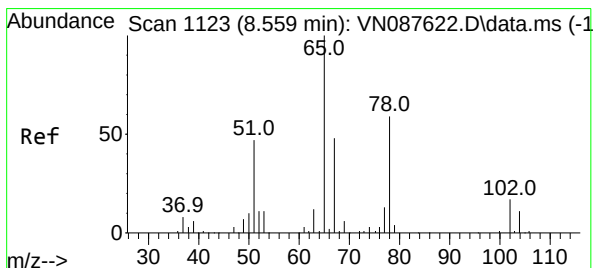
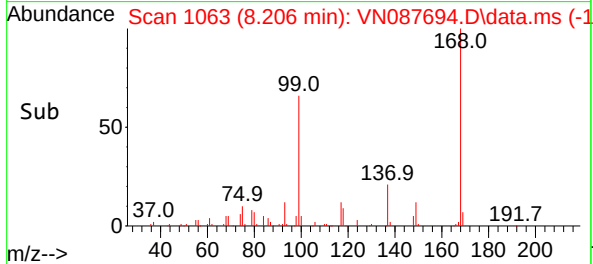
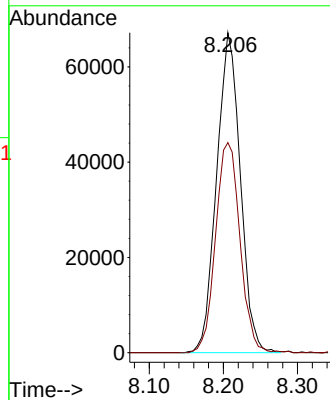
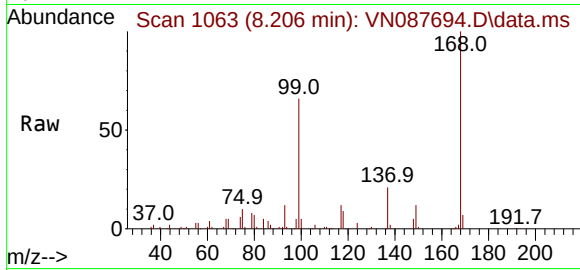




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087694.D
Acq: 29 Aug 2025 12:42

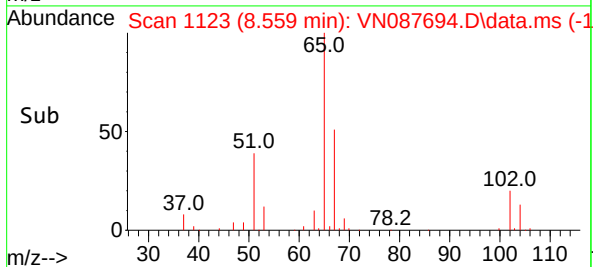
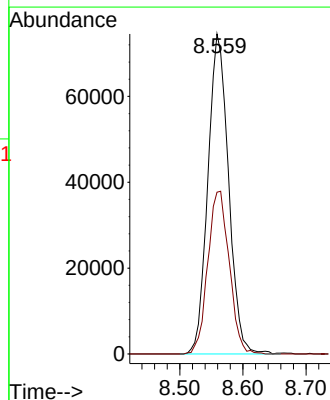
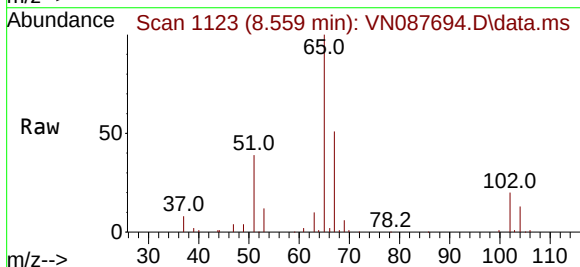
Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

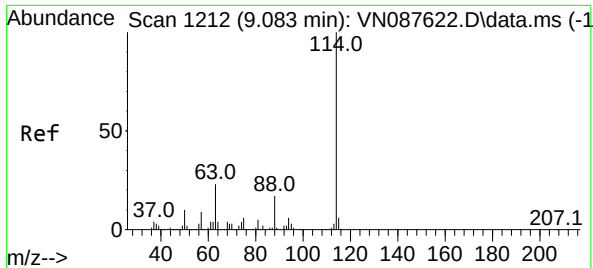
Tgt Ion:168 Resp: 149197
Ion Ratio Lower Upper
168 100
99 65.7 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 55.461 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087694.D
Acq: 29 Aug 2025 12:42

Tgt Ion: 65 Resp: 169537
Ion Ratio Lower Upper
65 100
67 52.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087694.D

Acq: 29 Aug 2025 12:42

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBL01

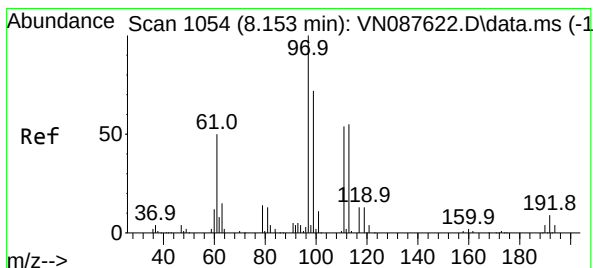
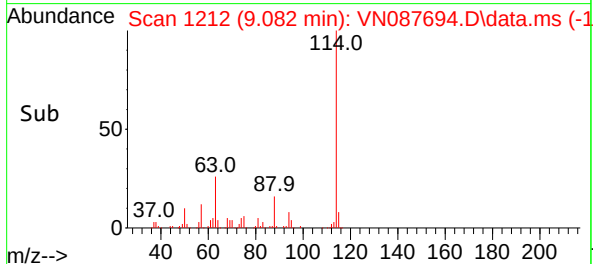
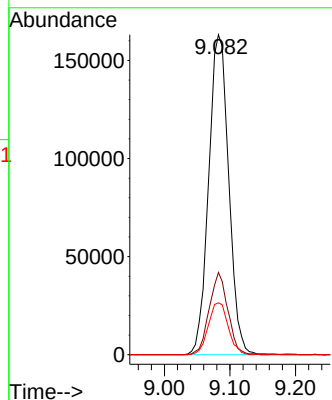
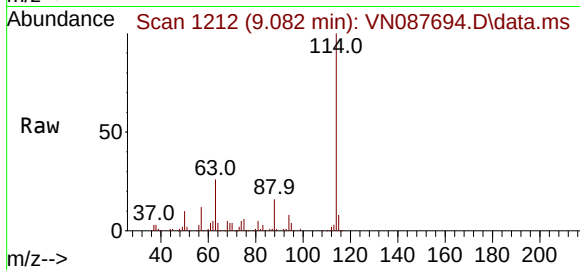
Tgt Ion:114 Resp: 346944

Ion Ratio Lower Upper

114 100

63 25.7 0.0 45.2

88 16.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.935 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087694.D

Acq: 29 Aug 2025 12:42

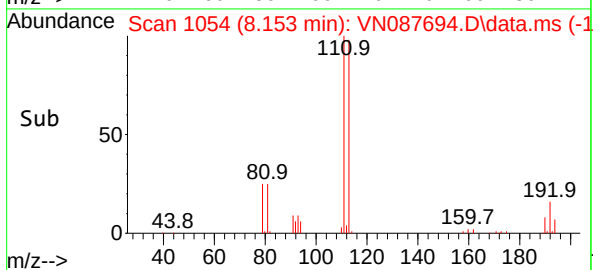
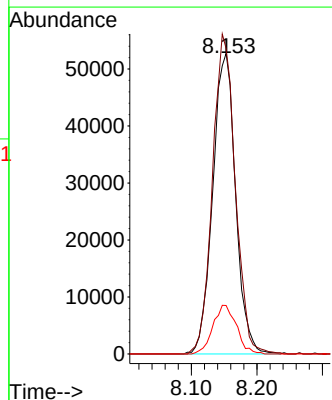
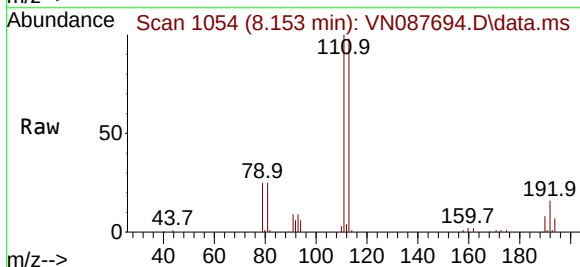
Tgt Ion:113 Resp: 127588

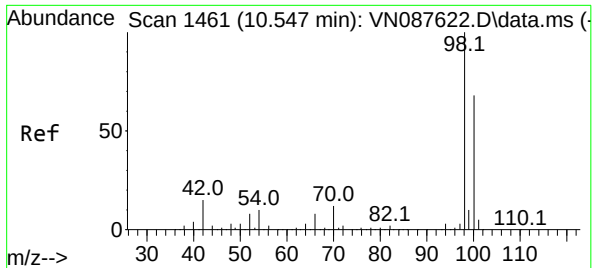
Ion Ratio Lower Upper

113 100

111 105.9 82.8 124.2

192 16.7 12.8 19.2

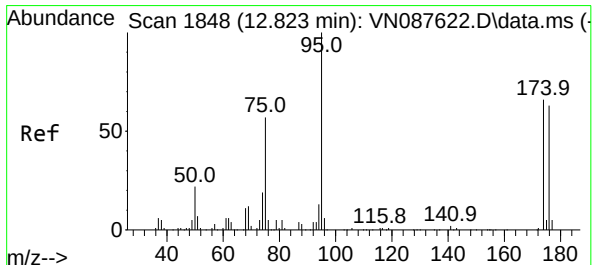
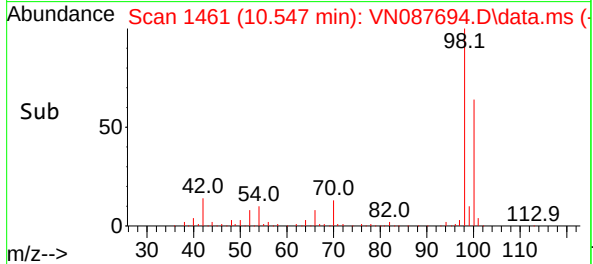
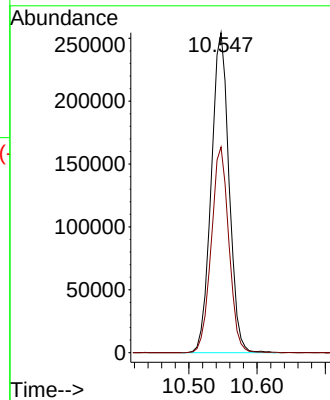
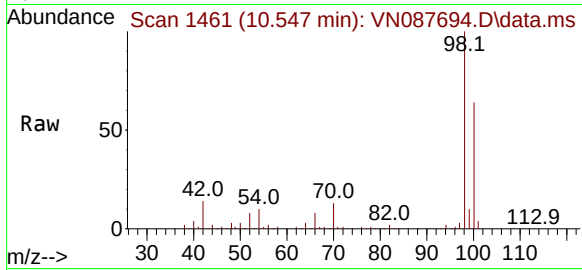




#50
Toluene-d8
Concen: 49.199 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087694.D
Acq: 29 Aug 2025 12:42

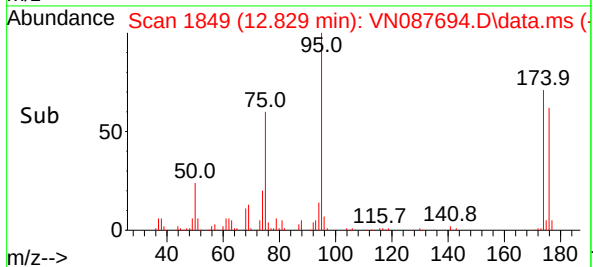
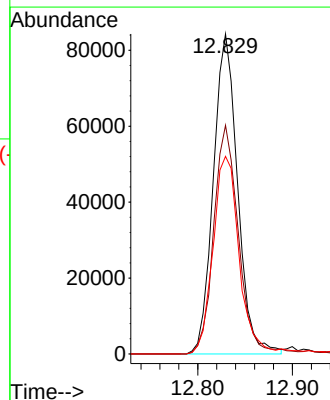
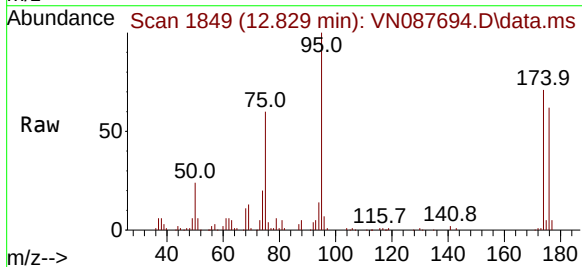
Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

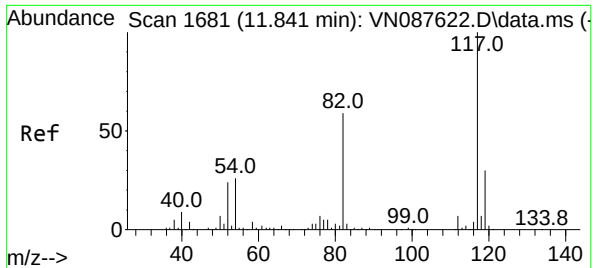
Tgt Ion: 98 Resp: 461268
Ion Ratio Lower Upper
98 100
100 63.6 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 44.917 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087694.D
Acq: 29 Aug 2025 12:42

Tgt Ion: 95 Resp: 149763
Ion Ratio Lower Upper
95 100
174 72.7 0.0 138.4
176 66.0 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087694.D

Acq: 29 Aug 2025 12:42

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBL01

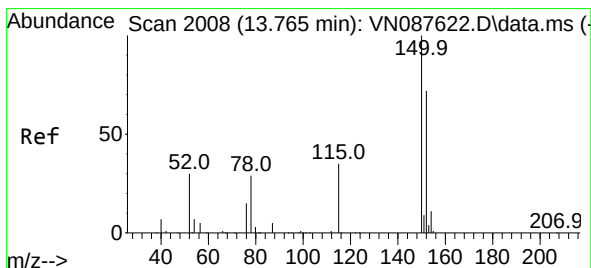
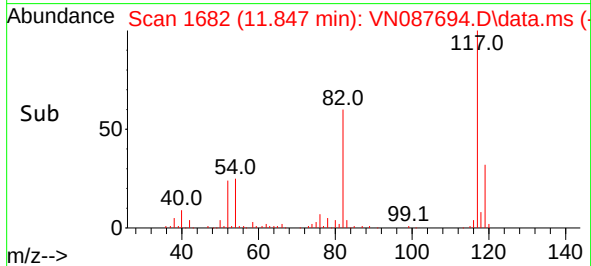
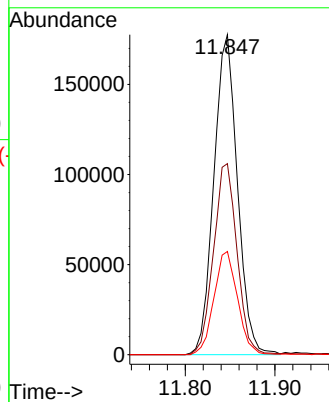
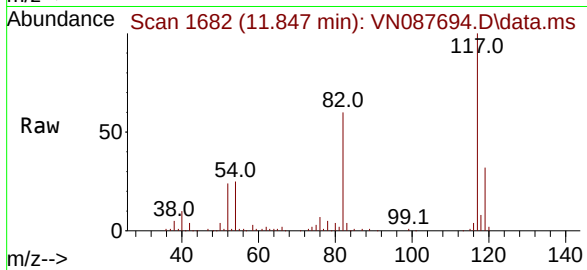
Tgt Ion:117 Resp: 324171

Ion Ratio Lower Upper

117 100

82 59.7 47.4 71.2

119 32.2 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: VN087694.D

Acq: 29 Aug 2025 12:42

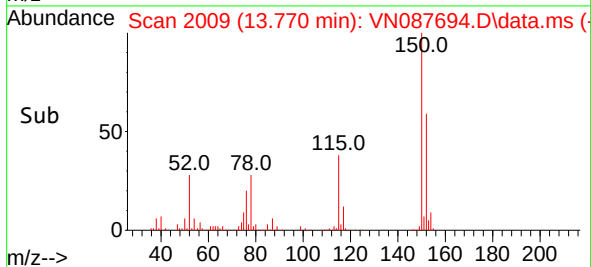
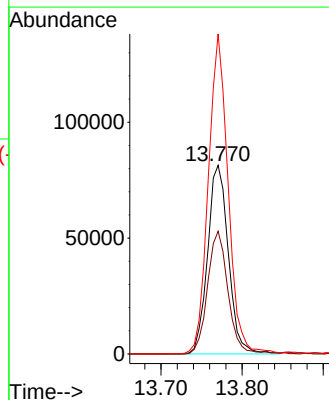
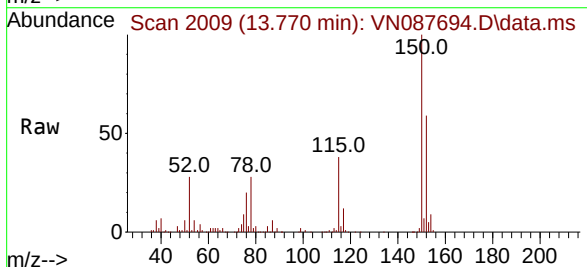
Tgt Ion:152 Resp: 144779

Ion Ratio Lower Upper

152 100

115 64.1 32.3 96.8

150 161.3 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087694.D
Acq On : 29 Aug 2025 12:42
Operator : JC\MD
Sample : VN0829MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

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\82N082125W.M

Title : SW846 8260

Signal : TIC: VN087694.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.147	1043	1053	1058	rBV	183514	441268	34.53%	6.796%
2	8.206	1058	1063	1072	rVB	233153	512837	40.14%	7.898%
3	8.559	1113	1123	1135	rBV	206740	474642	37.15%	7.310%
4	9.082	1202	1212	1221	rBV	429786	893491	69.93%	13.760%
5	10.547	1452	1461	1470	rBV	698767	1277755	100.00%	19.678%
6	11.847	1673	1682	1694	rBV	590414	1101751	86.23%	16.968%
7	12.829	1841	1849	1860	rBV	430660	783572	61.32%	12.067%
8	13.770	2001	2009	2022	rVV	571496	1007959	78.89%	15.523%

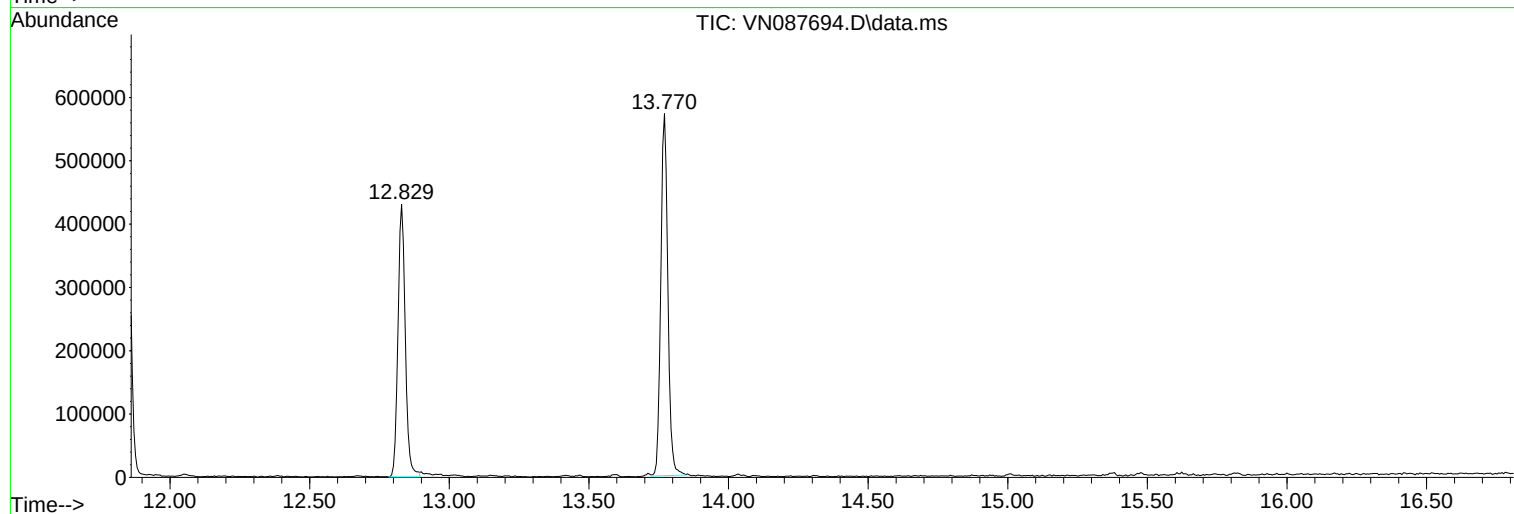
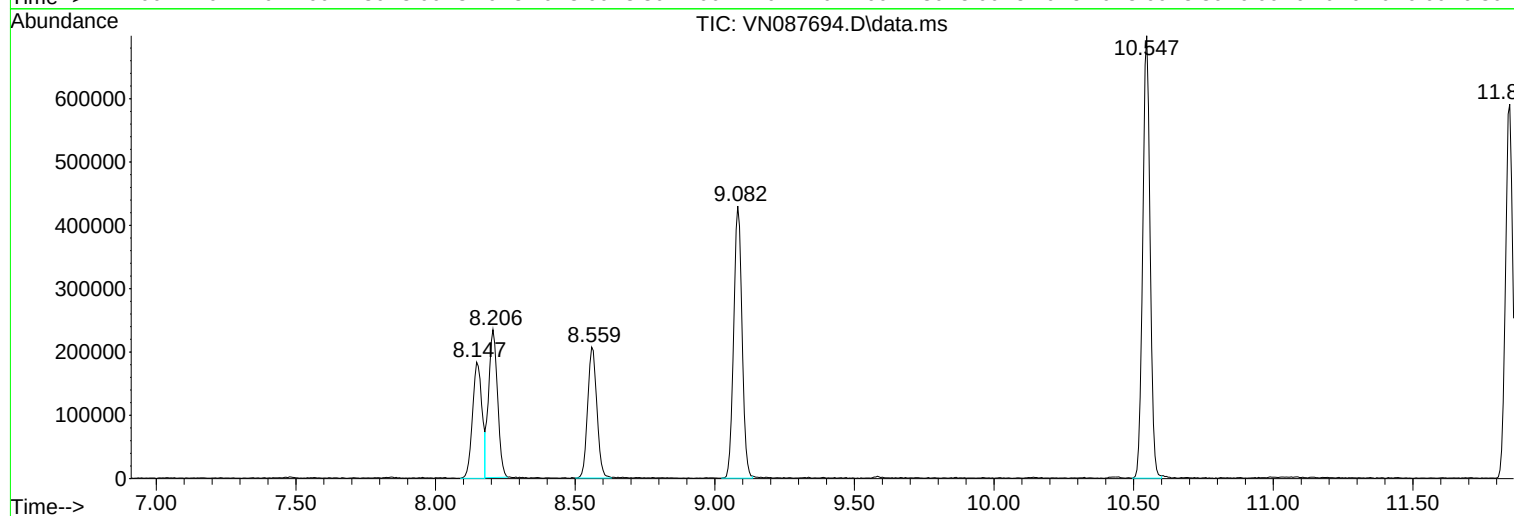
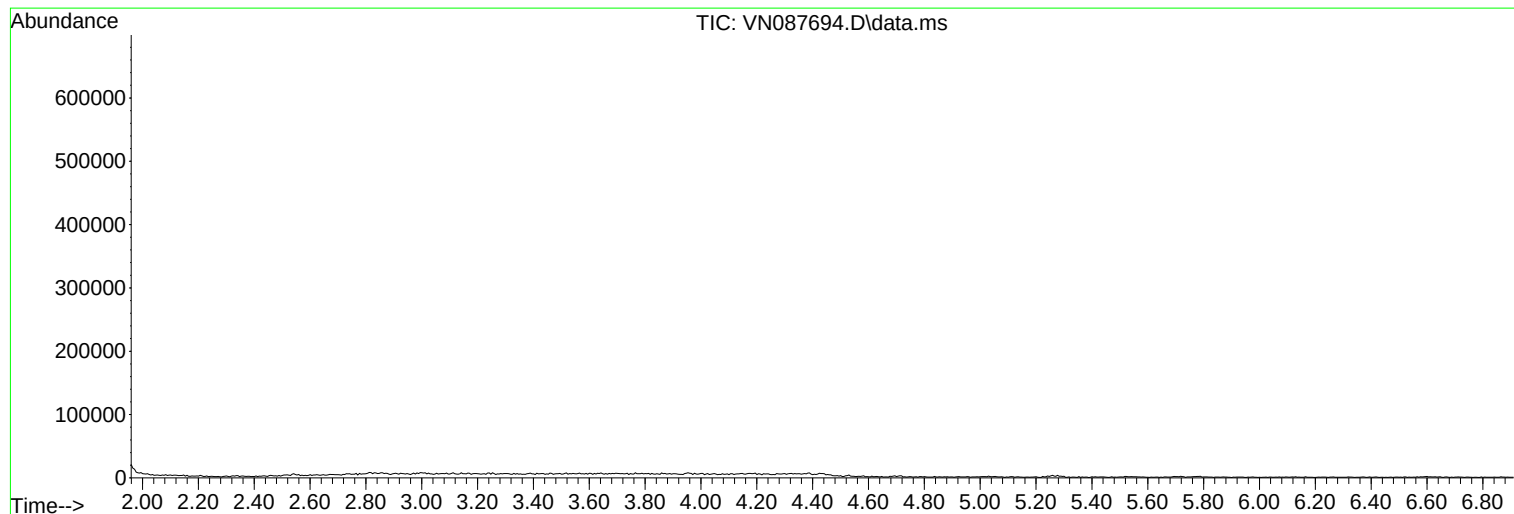
Sum of corrected areas: 6493275

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087694.D
Acq On : 29 Aug 2025 12:42
Operator : JC\MD
Sample : VN0829MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087694.D
Acq On : 29 Aug 2025 12:42
Operator : JC\MD
Sample : VN0829MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087694.D
Acq On : 29 Aug 2025 12:42
Operator : JC\MD
Sample : VN0829MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBL01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023215.D	1	08/28/25 10:02	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBL01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023215.D	1	08/28/25 10:02	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (63) - 130 (155)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (70) - 130 (134)	104%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (74) - 130 (123)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		70 (17) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	695000	7.713			
540-36-3	1,4-Difluorobenzene	1290000	8.616			
3114-55-4	Chlorobenzene-d5	1120000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	443000	13.346			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Buff		Date Received:	
Client Sample ID:	VY0828SBL01		SDG No.:	Q2964
Lab Sample ID:	VY0828SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023215.D	1	08/28/25 10:02	VY082825

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023215.D
 Acq On : 28 Aug 2025 10:02
 Operator : SY/MD
 Sample : VY0828SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0828SBL01

Quant Time: Aug 29 02:06:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	694700	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1286727	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1122725	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	442680	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	338350	51.103	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	102.200%
35) Dibromofluoromethane	7.640	113	398929	51.813	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.620%
50) Toluene-d8	10.109	98	1524498	50.684	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.360%
62) 4-Bromofluorobenzene	12.408	95	438387	45.320	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	90.640%

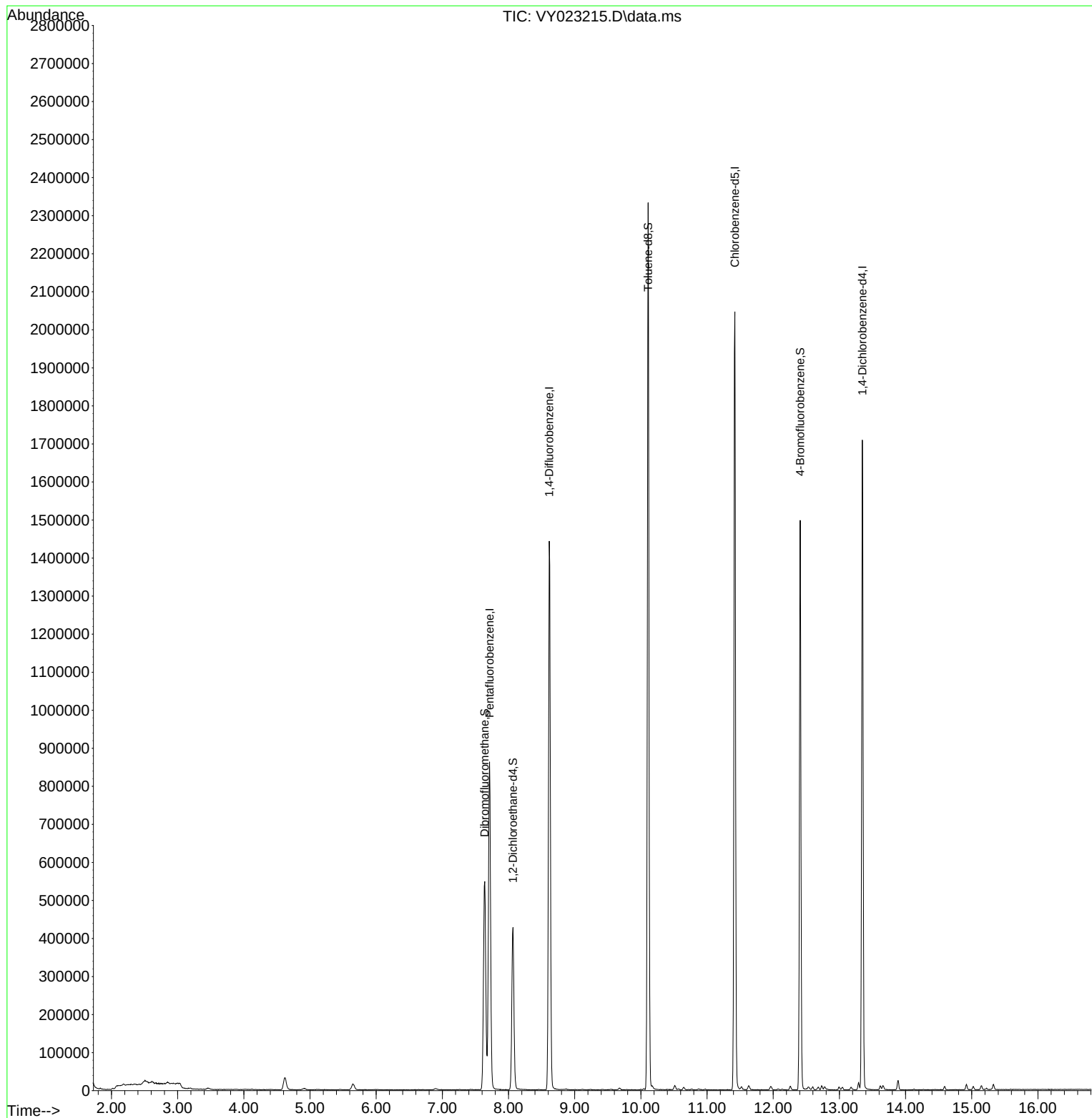
Target Compounds	Qvalue

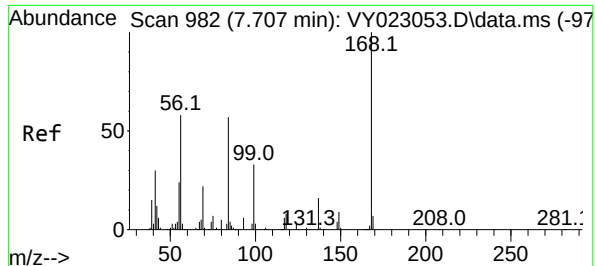
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023215.D
Acq On : 28 Aug 2025 10:02
Operator : SY/MD
Sample : VY0828SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

Quant Time: Aug 29 02:06:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

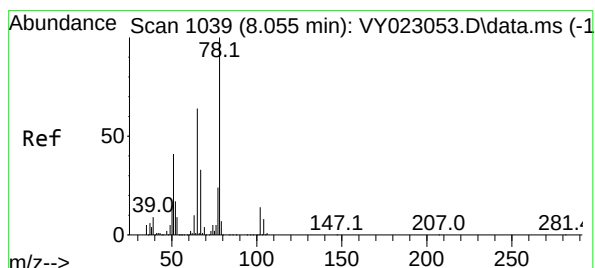
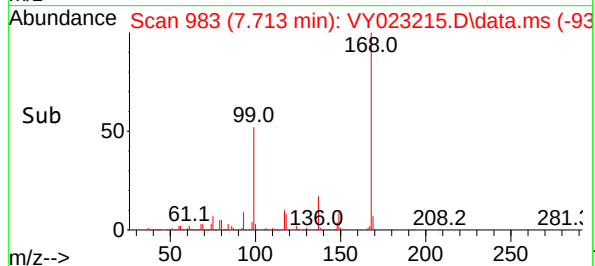
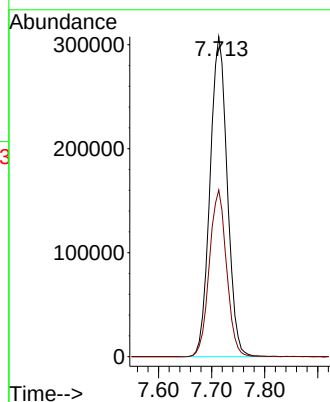
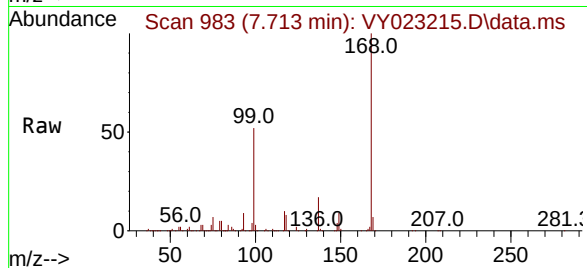




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023215.D
Acq: 28 Aug 2025 10:02

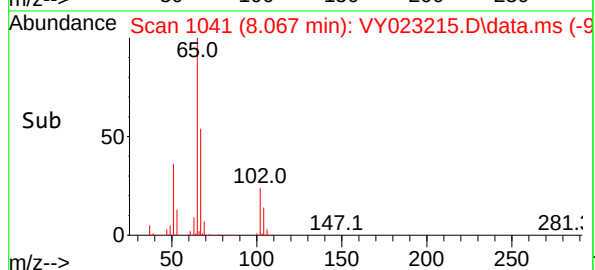
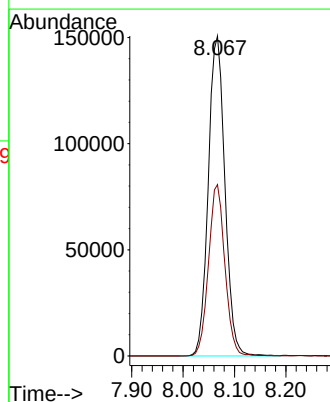
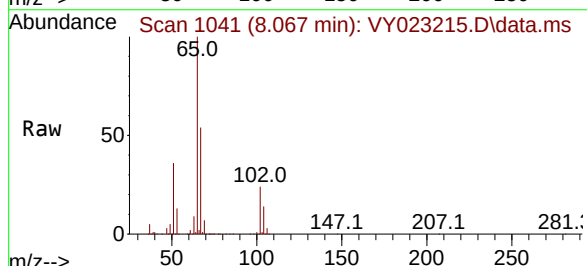
Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

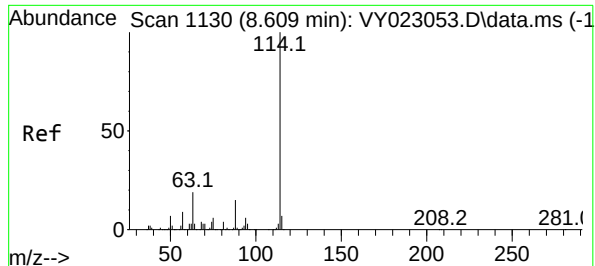
Tgt Ion:168 Resp: 694700
Ion Ratio Lower Upper
168 100
99 52.1 42.8 64.2



#33
1,2-Dichloroethane-d4
Concen: 51.103 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.012 min
Lab File: VY023215.D
Acq: 28 Aug 2025 10:02

Tgt Ion: 65 Resp: 338350
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VY023215.D

Acq: 28 Aug 2025 10:02

Instrument :

MSVOA_Y

ClientSampleId :

VY0828SBL01

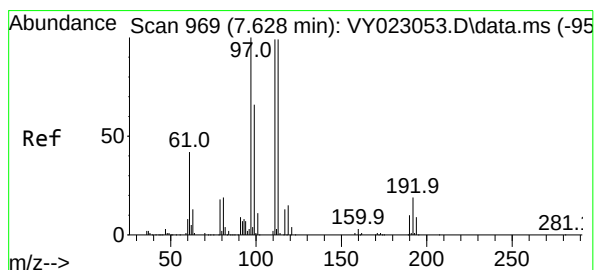
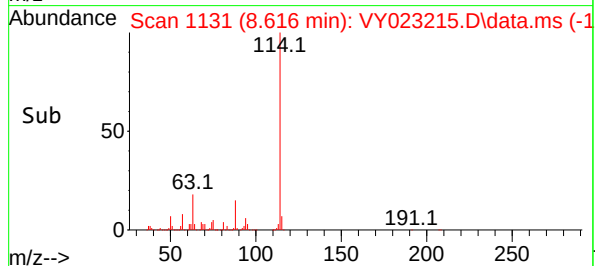
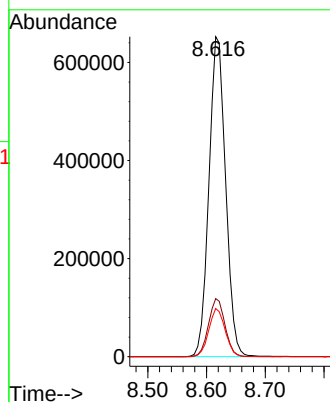
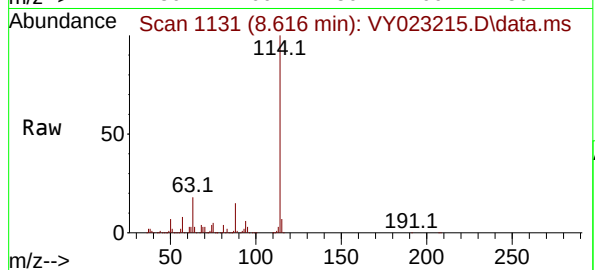
Tgt Ion:114 Resp: 1286727

Ion Ratio Lower Upper

114 100

63 18.2 0.0 38.4

88 15.0 0.0 30.0



#35

Dibromofluoromethane

Concen: 51.813 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.012 min

Lab File: VY023215.D

Acq: 28 Aug 2025 10:02

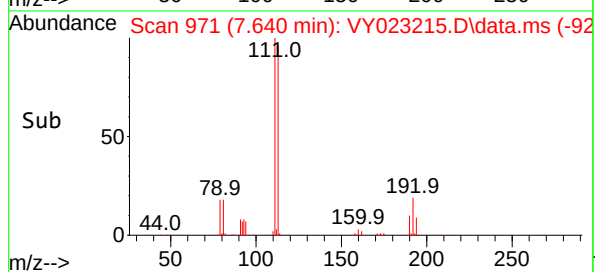
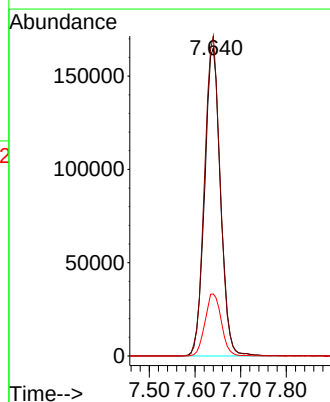
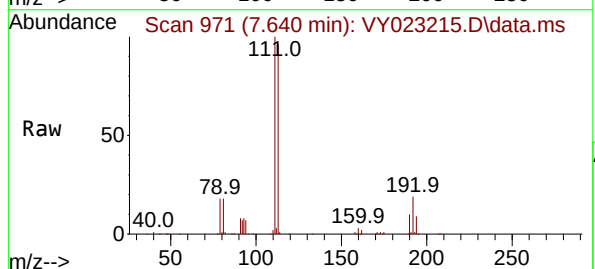
Tgt Ion:113 Resp: 398929

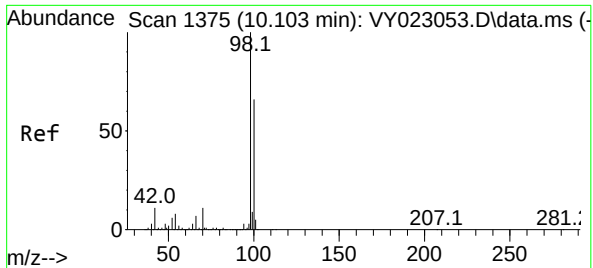
Ion Ratio Lower Upper

113 100

111 102.8 81.1 121.7

192 20.7 16.2 24.4

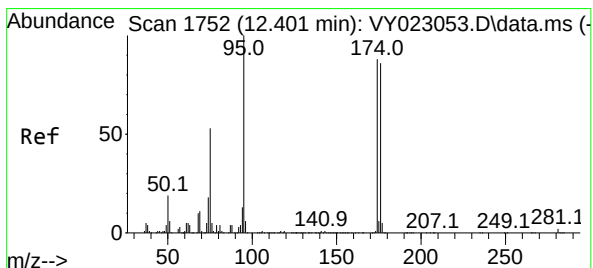
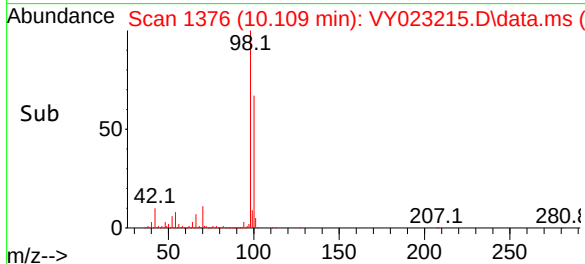
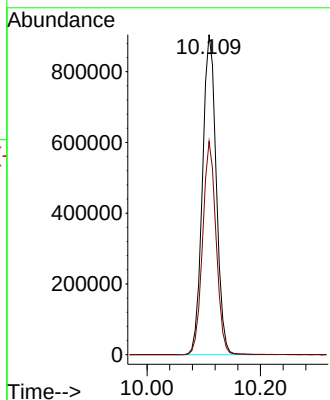
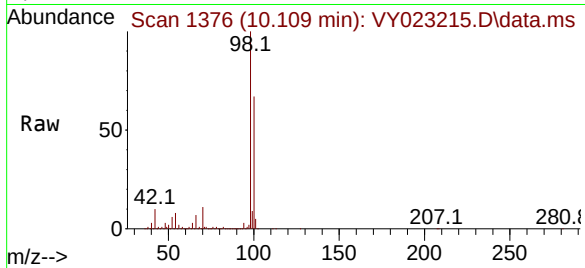




#50
Toluene-d8
Concen: 50.684 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY023215.D
Acq: 28 Aug 2025 10:02

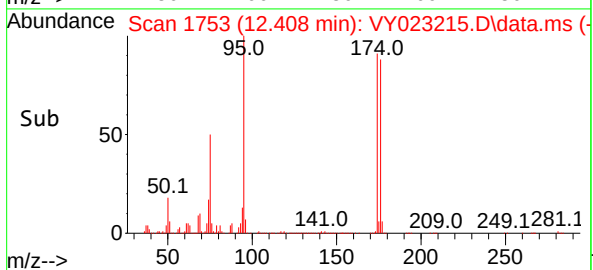
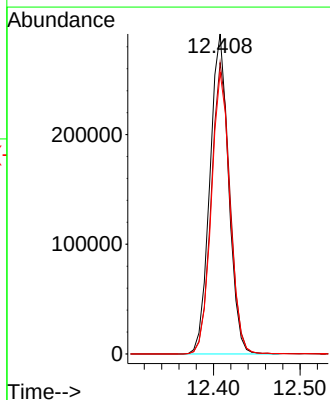
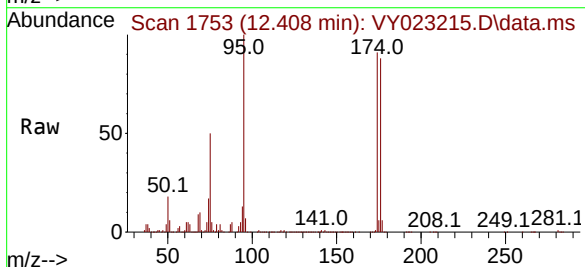
Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

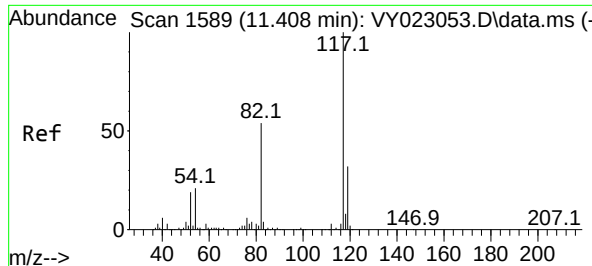
Tgt Ion: 98 Resp: 1524498
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 45.320 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023215.D
Acq: 28 Aug 2025 10:02

Tgt Ion: 95 Resp: 438387
Ion Ratio Lower Upper
95 100
174 91.1 0.0 171.6
176 87.7 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY023215.D

Acq: 28 Aug 2025 10:02

Instrument :

MSVOA_Y

ClientSampleId :

VY0828SBL01

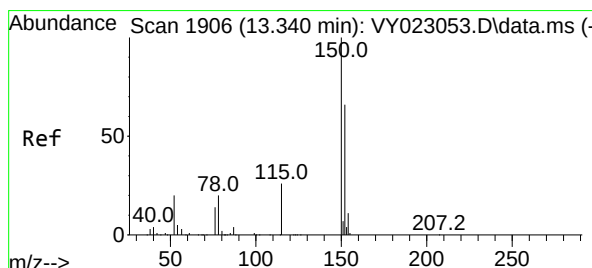
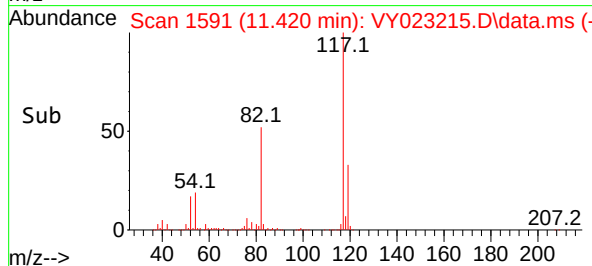
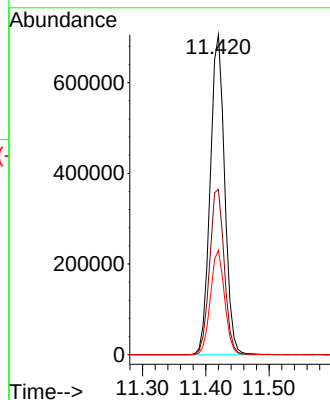
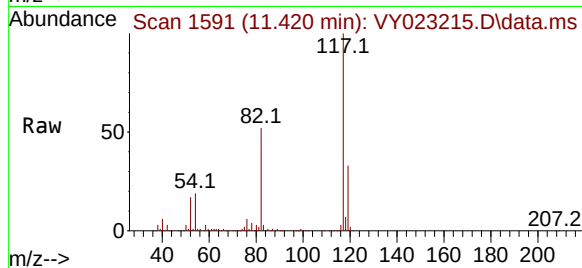
Tgt Ion:117 Resp: 1122725

Ion Ratio Lower Upper

117 100

82 51.6 43.4 65.0

119 32.7 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023215.D

Acq: 28 Aug 2025 10:02

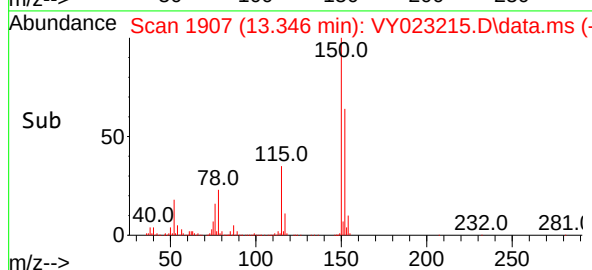
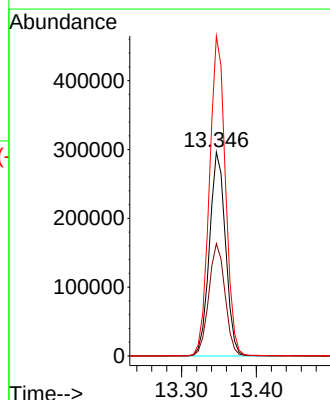
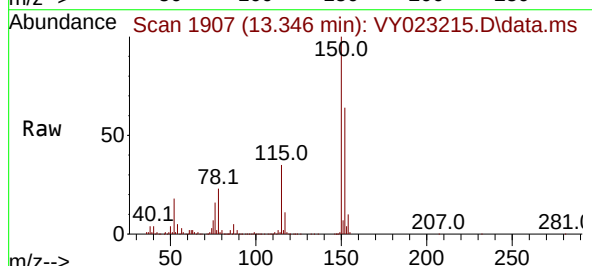
Tgt Ion:152 Resp: 442680

Ion Ratio Lower Upper

152 100

115 55.8 28.2 84.6

150 156.5 0.0 348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023215.D
Acq On : 28 Aug 2025 10:02
Operator : SY/MD
Sample : VY0828SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

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_Y\methods\82Y081225S.M

Title : SW846 8260

Signal : TIC: VY023215.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	464	476	487	rBV2	32068	103377	2.65%	0.533%
2	5.647	634	644	659	rBV2	15466	47926	1.23%	0.247%
3	7.640	960	971	977	rBV	547597	1334845	34.20%	6.886%
4	7.713	977	983	998	rVB	860545	1946371	49.87%	10.041%
5	8.067	1031	1041	1053	rBV	426764	964465	24.71%	4.975%
6	8.616	1121	1131	1145	rBV	1442940	2838766	72.74%	14.644%
7	10.109	1368	1376	1385	rBV	2331175	3902653	100.00%	20.132%
8	11.420	1581	1591	1603	rBV	2045973	3315702	84.96%	17.105%
9	12.408	1745	1753	1764	rBV	1497423	2298949	58.91%	11.859%
10	13.346	1901	1907	1929	rVB	1708093	2589922	66.36%	13.360%
11	13.889	1989	1996	2003	rVB2	24615	41948	1.07%	0.216%

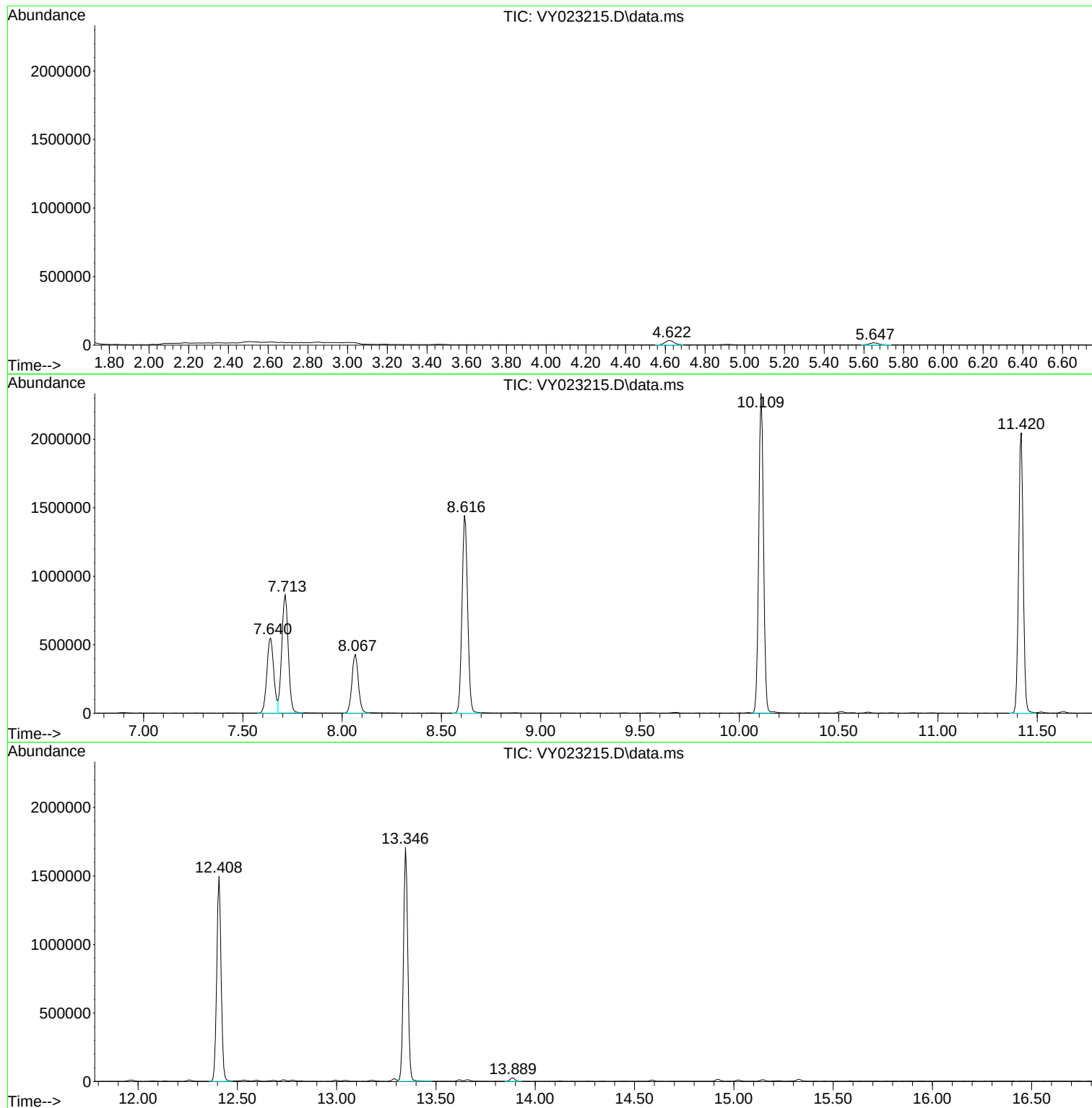
Sum of corrected areas: 19384924

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023215.D
Acq On : 28 Aug 2025 10:02
Operator : SY/MD
Sample : VY0828SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023215.D
Acq On : 28 Aug 2025 10:02
Operator : SY/MD
Sample : VY0828SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023215.D
Acq On : 28 Aug 2025 10:02
Operator : SY/MD
Sample : VY0828SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0828MBS01	SDG No.:	Q2964
Lab Sample ID:	VN0828MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087680.D	1	08/28/25 13:24	VN082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2000		110	500	ug/Kg
74-87-3	Chloromethane	1900		110	500	ug/Kg
75-01-4	Vinyl Chloride	1900		79.0	500	ug/Kg
74-83-9	Bromomethane	1900		110	500	ug/Kg
75-00-3	Chloroethane	1800		130	500	ug/Kg
75-69-4	Trichlorofluoromethane	1900		120	500	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1900		110	500	ug/Kg
75-35-4	1,1-Dichloroethene	1800		100	500	ug/Kg
67-64-1	Acetone	8200		470	2500	ug/Kg
75-15-0	Carbon Disulfide	1600		110	500	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1700		73.0	500	ug/Kg
79-20-9	Methyl Acetate	1900		150	500	ug/Kg
75-09-2	Methylene Chloride	1800		350	1000	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1700		86.0	500	ug/Kg
75-34-3	1,1-Dichloroethane	1700		80.0	500	ug/Kg
110-82-7	Cyclohexane	1800		79.0	500	ug/Kg
78-93-3	2-Butanone	8800		650	2500	ug/Kg
56-23-5	Carbon Tetrachloride	1900		97.0	500	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1700		75.0	500	ug/Kg
74-97-5	Bromochloromethane	1800		120	500	ug/Kg
67-66-3	Chloroform	1800		84.0	500	ug/Kg
71-55-6	1,1,1-Trichloroethane	1800		93.0	500	ug/Kg
108-87-2	Methylcyclohexane	1800		91.0	500	ug/Kg
71-43-2	Benzene	1700		79.0	500	ug/Kg
107-06-2	1,2-Dichloroethane	1800		79.0	500	ug/Kg
79-01-6	Trichloroethene	1700		81.0	500	ug/Kg
78-87-5	1,2-Dichloropropane	1700		91.0	500	ug/Kg
75-27-4	Bromodichloromethane	1800		78.0	500	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9300		360	2500	ug/Kg
108-88-3	Toluene	1700		78.0	500	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0828MBS01	SDG No.:	Q2964
Lab Sample ID:	VN0828MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087680.D	1	08/28/25 13:24	VN082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1800		65.0	500	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1800		62.0	500	ug/Kg
79-00-5	1,1,2-Trichloroethane	1800		92.0	500	ug/Kg
591-78-6	2-Hexanone	9100		370	2500	ug/Kg
124-48-1	Dibromochloromethane	1700		87.0	500	ug/Kg
106-93-4	1,2-Dibromoethane	1800		88.0	500	ug/Kg
127-18-4	Tetrachloroethene	1700		110	500	ug/Kg
108-90-7	Chlorobenzene	1700		91.0	500	ug/Kg
100-41-4	Ethyl Benzene	1800		67.0	500	ug/Kg
179601-23-1	m/p-Xylenes	3600		120	1000	ug/Kg
95-47-6	o-Xylene	1800		82.0	500	ug/Kg
100-42-5	Styrene	1800		71.0	500	ug/Kg
75-25-2	Bromoform	1800		86.0	500	ug/Kg
98-82-8	Isopropylbenzene	1800		78.0	500	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1800		120	500	ug/Kg
541-73-1	1,3-Dichlorobenzene	1800		170	500	ug/Kg
106-46-7	1,4-Dichlorobenzene	1800		160	500	ug/Kg
95-50-1	1,2-Dichlorobenzene	1800		150	500	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1800		180	500	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1700		300	500	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1700		320	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		70 (63) - 130 (155)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	47.5		70 (74) - 130 (123)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		70 (17) - 130 (146)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	211000	8.206			
540-36-3	1,4-Difluorobenzene	409000	9.082			
3114-55-4	Chlorobenzene-d5	370000	11.841			
3855-82-1	1,4-Dichlorobenzene-d4	186000	13.77			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Buff		Date Received:	
Client Sample ID:	VN0828MBS01		SDG No.:	Q2964
Lab Sample ID:	VN0828MBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	MED
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087680.D	1	08/28/25 13:24	VN082825

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087680.D
 Acq On : 28 Aug 2025 13:24
 Operator : JC\MD
 Sample : VN0828MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828MBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/29/2025
 Supervised By : Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:16:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	211485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	408603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	370187	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	186353	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	203158	46.885	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.780%		
35) Dibromofluoromethane	8.147	113	147561	50.019	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.040%		
50) Toluene-d8	10.547	98	524256	47.480	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.960%		
62) 4-Bromofluorobenzene	12.829	95	183287	46.676	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.360%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	61374	20.433	ug/l	98
3) Chloromethane	2.383	50	59091	19.143	ug/l	93
4) Vinyl Chloride	2.536	62	67837	18.954	ug/l	100
5) Bromomethane	2.983	94	34531	18.698	ug/l	93
6) Chloroethane	3.142	64	45198	17.968	ug/l	91
7) Trichlorofluoromethane	3.512	101	99722	19.018	ug/l	93
8) Diethyl Ether	3.959	74	39132	17.136	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.365	101	55966	18.862	ug/l	98
10) Methyl Iodide	4.577	142	30677	18.761	ug/l	97
11) Tert butyl alcohol	5.524	59	67144	89.259	ug/l #	92
12) 1,1-Dichloroethene	4.336	96	53720	17.618	ug/l	92
13) Acrolein	4.183	56	72666	78.577	ug/l	98
14) Allyl chloride	5.012	41	83077	15.035	ug/l	93
15) Acrylonitrile	5.712	53	183151	86.331	ug/l	98
16) Acetone	4.424	43	193013	81.827	ug/l	99
17) Carbon Disulfide	4.700	76	137848	16.422	ug/l	96
18) Methyl Acetate	5.018	43	92312	18.691	ug/l	98
19) Methyl tert-butyl Ether	5.788	73	196955	17.219	ug/l	96
20) Methylene Chloride	5.271	84	63133	17.702	ug/l	96
21) trans-1,2-Dichloroethene	5.765	96	55407	16.767	ug/l #	79
22) Diisopropyl ether	6.659	45	209173	17.542	ug/l	98
23) Vinyl Acetate	6.588	43	946844	87.282	ug/l	98
24) 1,1-Dichloroethane	6.553	63	111795	17.100	ug/l	97
25) 2-Butanone	7.471	43	272688	87.871	ug/l	99
26) 2,2-Dichloropropane	7.477	77	95856	17.083	ug/l	97
27) cis-1,2-Dichloroethene	7.471	96	65878	16.676	ug/l	96
28) Bromochloromethane	7.794	49	57250	18.114	ug/l	97
29) Tetrahydrofuran	7.830	42	169313	84.778	ug/l	99
30) Chloroform	7.947	83	119392	17.892	ug/l	96
31) Cyclohexane	8.241	56	97119	17.819	ug/l	92
32) 1,1,1-Trichloroethane	8.147	97	100573	17.784	ug/l	95
36) 1,1-Dichloropropene	8.353	75	76175	16.831	ug/l	98
37) Ethyl Acetate	7.547	43	105957	17.133	ug/l	97
38) Carbon Tetrachloride	8.347	117	84141	18.830	ug/l	99
39) Methylcyclohexane	9.576	83	89392	17.940	ug/l	98
40) Benzene	8.588	78	241215	17.377	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
 Data File : VN087680.D
 Acq On : 28 Aug 2025 13:24
 Operator : JC\MD
 Sample : VN0828MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0828MBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/29/2025
 Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:16:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	55238	17.243	ug/l	96
42) 1,2-Dichloroethane	8.653	62	93566	17.540	ug/l	98
43) Isopropyl Acetate	8.671	43	173012	17.918	ug/l	99
44) Trichloroethene	9.335	130	54478	17.190	ug/l	96
45) 1,2-Dichloropropane	9.600	63	61896	16.916	ug/l	96
46) Dibromomethane	9.688	93	45634	17.526	ug/l	95
47) Bromodichloromethane	9.871	83	96586	18.100	ug/l	91
48) Methyl methacrylate	9.659	41	80291	17.580	ug/l	96
49) 1,4-Dioxane	9.682	88	22007	371.763	ug/l #	91
51) 4-Methyl-2-Pentanone	10.423	43	540127	92.716	ug/l	98
52) Toluene	10.606	92	148910	17.304	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	96916	17.546	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	101790	17.748	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	59593	17.901	ug/l	96
56) Ethyl methacrylate	10.859	69	96822	18.199	ug/l	98
57) 1,3-Dichloropropane	11.141	76	106592	18.092	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.141	63	267088	92.752	ug/l	100
59) 2-Hexanone	11.176	43	336693	91.449	ug/l	96
60) Dibromochloromethane	11.341	129	67261	17.437	ug/l	97
61) 1,2-Dibromoethane	11.453	107	64733	18.441	ug/l	97
64) Tetrachloroethene	11.082	164	43678	17.006	ug/l	96
65) Chlorobenzene	11.870	112	159575	17.327	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.941	131	56642	18.526	ug/l	98
67) Ethyl Benzene	11.941	91	284977	17.872	ug/l	96
68) m/p-Xylenes	12.053	106	209338	35.796	ug/l	99
69) o-Xylene	12.376	106	101056	17.633	ug/l	99
70) Styrene	12.394	104	169650	17.669	ug/l	97
71) Bromoform	12.559	173	42728	18.222	ug/l #	98
73) Isopropylbenzene	12.676	105	267617	17.772	ug/l	100
74) N-amyl acetate	12.564	43	103194m	18.083	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	95232	18.369	ug/l	99
76) 1,2,3-Trichloropropane	12.970	75	92024m	21.058	ug/l	
77) Bromobenzene	12.959	156	63384	17.852	ug/l	99
78) n-propylbenzene	13.012	91	340179	18.340	ug/l	99
79) 2-Chlorotoluene	13.106	91	201697	18.070	ug/l	97
80) 1,3,5-Trimethylbenzene	13.147	105	228483	17.886	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	26280	15.920	ug/l	94
82) 4-Chlorotoluene	13.200	91	206057	17.558	ug/l	99
83) tert-Butylbenzene	13.417	119	188957	17.750	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	227517	17.791	ug/l	100
85) sec-Butylbenzene	13.594	105	291493	18.452	ug/l	100
86) p-Isopropyltoluene	13.706	119	233475	17.898	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	125252	17.914	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	128102	17.605	ug/l	98
89) n-Butylbenzene	14.035	91	236014	18.218	ug/l	98
90) Hexachloroethane	14.306	117	45435	18.282	ug/l	95
91) 1,2-Dichlorobenzene	14.082	146	118425	17.853	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	22137	17.974	ug/l	95
93) 1,2,4-Trichlorobenzene	15.364	180	68524	17.203	ug/l	97
94) Hexachlorobutadiene	15.470	225	26462	18.634	ug/l	98
95) Naphthalene	15.611	128	237793	16.854	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	67896	17.436	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087680.D
Acq On : 28 Aug 2025 13:24
Operator : JC\MD
Sample : VN0828MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:16:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

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

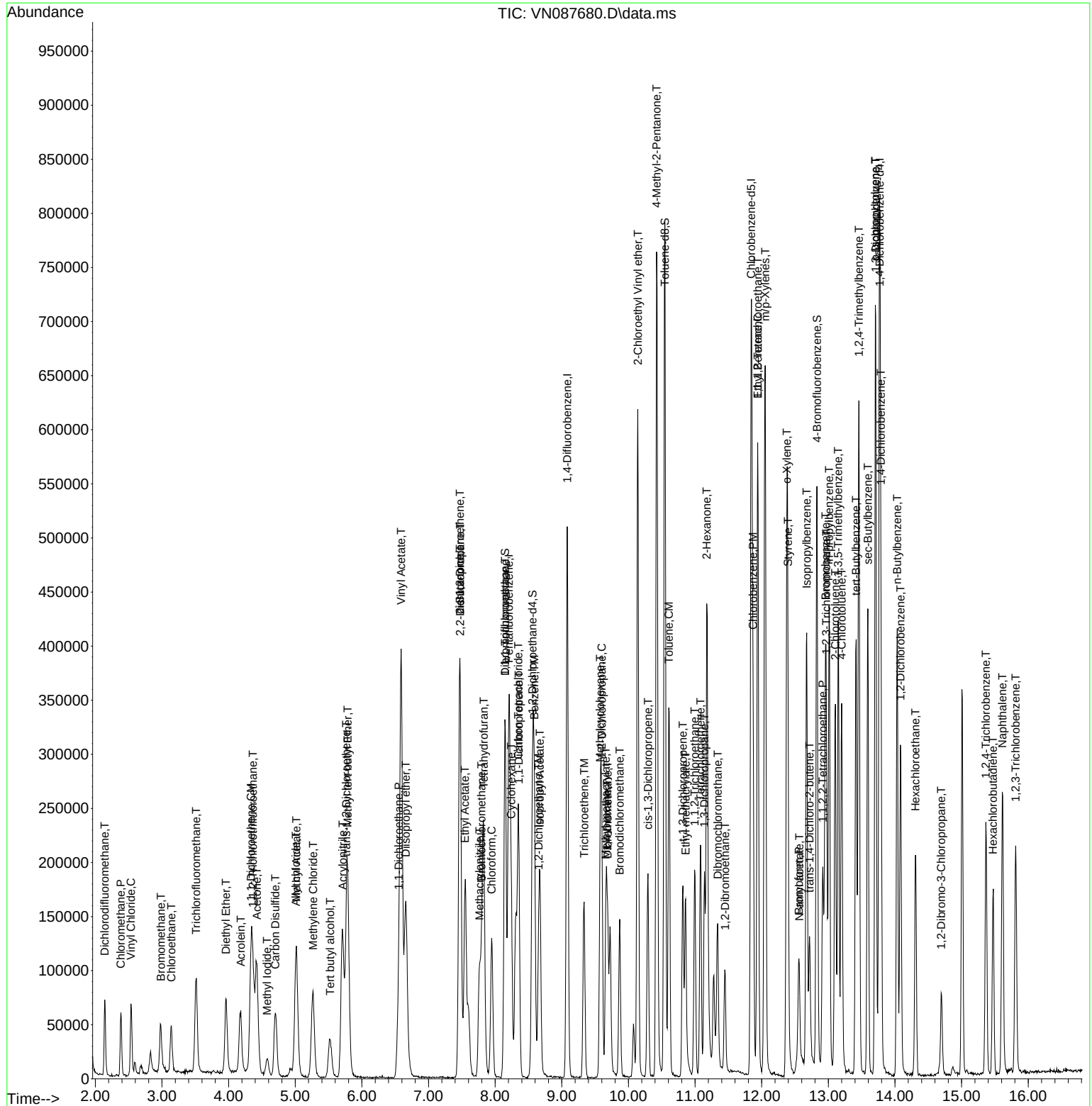
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082825\
Data File : VN087680.D
Acq On : 28 Aug 2025 13:24
Operator : JC\MD
Sample : VN0828MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0828MBS01

Manual Integrations

Reviewed By :John Carlone 08/29/2025
Supervised By :Semsettin Yesilyurt 08/29/2025

Quant Time: Aug 29 03:16:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0829MBS01	SDG No.:	Q2964
Lab Sample ID:	VN0829MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087696.D	1	08/29/25 13:24	VN082925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1900		110	500	ug/Kg
74-87-3	Chloromethane	2000		110	500	ug/Kg
75-01-4	Vinyl Chloride	1900		79.0	500	ug/Kg
74-83-9	Bromomethane	2000		110	500	ug/Kg
75-00-3	Chloroethane	1900		130	500	ug/Kg
75-69-4	Trichlorofluoromethane	1900		120	500	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1800		110	500	ug/Kg
75-35-4	1,1-Dichloroethene	1800		100	500	ug/Kg
67-64-1	Acetone	9300		470	2500	ug/Kg
75-15-0	Carbon Disulfide	1600		110	500	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1800		73.0	500	ug/Kg
79-20-9	Methyl Acetate	2000		150	500	ug/Kg
75-09-2	Methylene Chloride	1800		350	1000	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1700		86.0	500	ug/Kg
75-34-3	1,1-Dichloroethane	1800		80.0	500	ug/Kg
110-82-7	Cyclohexane	1600		79.0	500	ug/Kg
78-93-3	2-Butanone	9300		650	2500	ug/Kg
56-23-5	Carbon Tetrachloride	1800		97.0	500	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1800		75.0	500	ug/Kg
74-97-5	Bromochloromethane	2000		120	500	ug/Kg
67-66-3	Chloroform	1900		84.0	500	ug/Kg
71-55-6	1,1,1-Trichloroethane	1800		93.0	500	ug/Kg
108-87-2	Methylcyclohexane	1600		91.0	500	ug/Kg
71-43-2	Benzene	1800		79.0	500	ug/Kg
107-06-2	1,2-Dichloroethane	1800		79.0	500	ug/Kg
79-01-6	Trichloroethene	1700		81.0	500	ug/Kg
78-87-5	1,2-Dichloropropane	1800		91.0	500	ug/Kg
75-27-4	Bromodichloromethane	1900		78.0	500	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9600		360	2500	ug/Kg
108-88-3	Toluene	1800		78.0	500	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VN0829MBS01	SDG No.:	Q2964
Lab Sample ID:	VN0829MBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087696.D	1	08/29/25 13:24	VN082925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1800		65.0	500	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1800		62.0	500	ug/Kg
79-00-5	1,1,2-Trichloroethane	1900		92.0	500	ug/Kg
591-78-6	2-Hexanone	9600		370	2500	ug/Kg
124-48-1	Dibromochloromethane	1800		87.0	500	ug/Kg
106-93-4	1,2-Dibromoethane	1900		88.0	500	ug/Kg
127-18-4	Tetrachloroethene	1700		110	500	ug/Kg
108-90-7	Chlorobenzene	1800		91.0	500	ug/Kg
100-41-4	Ethyl Benzene	1700		67.0	500	ug/Kg
179601-23-1	m/p-Xylenes	3500		120	1000	ug/Kg
95-47-6	o-Xylene	1800		82.0	500	ug/Kg
100-42-5	Styrene	1800		71.0	500	ug/Kg
75-25-2	Bromoform	1800		86.0	500	ug/Kg
98-82-8	Isopropylbenzene	1700		78.0	500	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1900		120	500	ug/Kg
541-73-1	1,3-Dichlorobenzene	1800		170	500	ug/Kg
106-46-7	1,4-Dichlorobenzene	1700		160	500	ug/Kg
95-50-1	1,2-Dichlorobenzene	1800		150	500	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1600		180	500	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1700		300	500	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1700		320	500	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		70 (70) - 130 (134)	94%	SPK: 50
2037-26-5	Toluene-d8	45.7		70 (74) - 130 (123)	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		70 (17) - 130 (146)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	189000	8.206			
540-36-3	1,4-Difluorobenzene	373000	9.083			
3114-55-4	Chlorobenzene-d5	351000	11.841			
3855-82-1	1,4-Dichlorobenzene-d4	178000	13.771			



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

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Buff		Date Received:	
Client Sample ID:	VN0829MBS01		SDG No.:	Q2964
Lab Sample ID:	VN0829MBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624	ID : 0.25	Level :	MED
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087696.D	1	08/29/25 13:24	VN082925

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087696.D
 Acq On : 29 Aug 2025 13:24
 Operator : JC\MD
 Sample : VN0829MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/02/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:53:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	188928	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	373365	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	351090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	178354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	187772	48.508	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.020%		
35) Dibromofluoromethane	8.147	113	126636	46.977	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.960%		
50) Toluene-d8	10.547	98	461350	45.726	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.460%		
62) 4-Bromofluorobenzene	12.829	95	165941	46.247	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.500%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	51190	19.077	ug/l	98
3) Chloromethane	2.383	50	55531	20.138	ug/l	94
4) Vinyl Chloride	2.536	62	61029	19.088	ug/l	96
5) Bromomethane	2.977	94	32491	19.694	ug/l	99
6) Chloroethane	3.136	64	41645	18.532	ug/l	95
7) Trichlorofluoromethane	3.506	101	90530	19.326	ug/l	98
8) Diethyl Ether	3.965	74	38190	18.720	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	48908	18.452	ug/l	97
10) Methyl Iodide	4.571	142	26311	18.284	ug/l	91
11) Tert butyl alcohol	5.530	59	65482	97.443	ug/l #	85
12) 1,1-Dichloroethene	4.336	96	50191	18.426	ug/l	87
13) Acrolein	4.171	56	64784	78.418	ug/l	99
14) Allyl chloride	5.006	41	80908	16.391	ug/l	98
15) Acrylonitrile	5.706	53	176216	92.979	ug/l	97
16) Acetone	4.424	43	195049	92.563	ug/l	99
17) Carbon Disulfide	4.695	76	123567	16.478	ug/l	98
18) Methyl Acetate	5.018	43	89056	20.185	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	185853	18.188	ug/l	97
20) Methylene Chloride	5.265	84	57586	18.102	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	49933	16.914	ug/l	89
22) Diisopropyl ether	6.665	45	194004	18.213	ug/l	98
23) Vinyl Acetate	6.595	43	882161	91.028	ug/l	98
24) 1,1-Dichloroethane	6.553	63	106632	18.258	ug/l	98
25) 2-Butanone	7.477	43	256683	92.589	ug/l	97
26) 2,2-Dichloropropane	7.477	77	89854	17.925	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	61880	17.534	ug/l	97
28) Bromochloromethane	7.800	49	55580	19.685	ug/l	98
29) Tetrahydrofuran	7.830	42	158693	88.947	ug/l	99
30) Chloroform	7.947	83	112063	18.799	ug/l	96
31) Cyclohexane	8.241	56	80311	16.495	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	91842	18.179	ug/l	95
36) 1,1-Dichloropropene	8.353	75	68123	16.473	ug/l	98
37) Ethyl Acetate	7.553	43	91214	16.141	ug/l	96
38) Carbon Tetrachloride	8.341	117	71797	17.584	ug/l	94
39) Methylcyclohexane	9.583	83	70588	15.504	ug/l	97
40) Benzene	8.588	78	227341	17.923	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
 Data File : VN087696.D
 Acq On : 29 Aug 2025 13:24
 Operator : JC\MD
 Sample : VN0829MBS01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/02/2025
 Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:53:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	50902	17.389	ug/l	96
42) 1,2-Dichloroethane	8.653	62	89468	18.355	ug/l	99
43) Isopropyl Acetate	8.677	43	161391	18.292	ug/l	98
44) Trichloroethene	9.335	130	49364	17.046	ug/l	95
45) 1,2-Dichloropropane	9.600	63	61307	18.337	ug/l	98
46) Dibromomethane	9.688	93	44167	18.563	ug/l	99
47) Bromodichloromethane	9.871	83	90297	18.518	ug/l	94
48) Methyl methacrylate	9.665	41	72668	17.413	ug/l	96
49) 1,4-Dioxane	9.683	88	21957	405.926	ug/l #	92
51) 4-Methyl-2-Pentanone	10.424	43	513315	96.430	ug/l	98
52) Toluene	10.606	92	140083	17.814	ug/l	100
53) t-1,3-Dichloropropene	10.812	75	90004	17.832	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	94514	18.034	ug/l	90
55) 1,1,2-Trichloroethane	10.994	97	57761	18.988	ug/l	97
56) Ethyl methacrylate	10.859	69	86431	17.779	ug/l	97
57) 1,3-Dichloropropane	11.141	76	101919	18.931	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	249840	94.951	ug/l	99
59) 2-Hexanone	11.182	43	323063	96.028	ug/l	97
60) Dibromochloromethane	11.335	129	64331	18.251	ug/l	99
61) 1,2-Dibromoethane	11.447	107	59517	18.555	ug/l	100
64) Tetrachloroethene	11.082	164	40745	16.727	ug/l	93
65) Chlorobenzene	11.865	112	155048	17.751	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	54995	18.965	ug/l	97
67) Ethyl Benzene	11.941	91	262980	17.389	ug/l	94
68) m/p-Xylenes	12.047	106	193034	34.804	ug/l	100
69) o-Xylene	12.376	106	95307	17.534	ug/l	99
70) Styrene	12.388	104	165073	18.128	ug/l	98
71) Bromoform	12.559	173	40149	18.053	ug/l #	98
73) Isopropylbenzene	12.671	105	242355	16.816	ug/l	98
74) N-amyl acetate	12.588	43	89313m	16.353	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	91872	18.515	ug/l	99
76) 1,2,3-Trichloropropane	12.971	75	86750m	20.741	ug/l	
77) Bromobenzene	12.959	156	61668	18.148	ug/l	96
78) n-propylbenzene	13.012	91	306151	17.246	ug/l	99
79) 2-Chlorotoluene	13.106	91	184458	17.266	ug/l	98
80) 1,3,5-Trimethylbenzene	13.147	105	208329	17.040	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	26155	16.555	ug/l	88
82) 4-Chlorotoluene	13.200	91	197936	17.622	ug/l	99
83) tert-Butylbenzene	13.418	119	172447	16.926	ug/l	100
84) 1,2,4-Trimethylbenzene	13.459	105	212720	17.380	ug/l	100
85) sec-Butylbenzene	13.594	105	254993	16.865	ug/l	100
86) p-Isopropyltoluene	13.706	119	208869	16.730	ug/l	100
87) 1,3-Dichlorobenzene	13.712	146	119113	17.800	ug/l	97
88) 1,4-Dichlorobenzene	13.788	146	120426	17.293	ug/l	97
89) n-Butylbenzene	14.035	91	209655	16.909	ug/l	99
90) Hexachloroethane	14.306	117	41538	17.464	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	112278	17.685	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.700	75	19357	16.422	ug/l	96
93) 1,2,4-Trichlorobenzene	15.370	180	66279	17.386	ug/l	98
94) Hexachlorobutadiene	15.476	225	23354	17.183	ug/l	98
95) Naphthalene	15.612	128	225308	16.685	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	63231	16.966	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087696.D
Acq On : 29 Aug 2025 13:24
Operator : JC\MD
Sample : VN0829MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/02/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:53:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

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

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

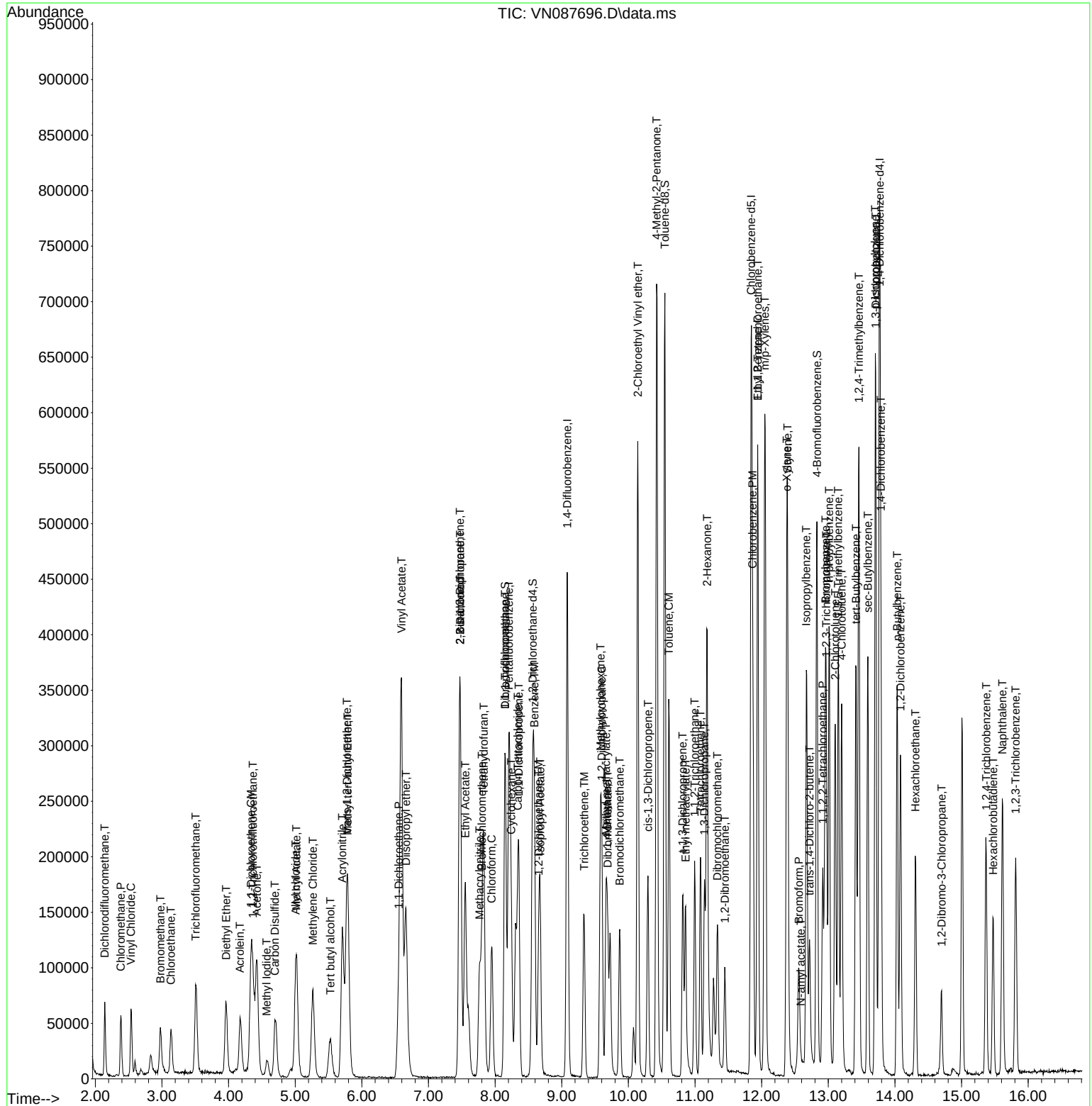
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082925\
Data File : VN087696.D
Acq On : 29 Aug 2025 13:24
Operator : JC\MD
Sample : VN0829MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBS01

Manual Integrations

Reviewed By :John Carlone 09/02/2025
Supervised By :Semsettin Yesilyurt 09/03/2025

Quant Time: Aug 29 22:53:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBS01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023216.D	1	08/28/25 10:58	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.5		0.79	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.0		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.9		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.7		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.79	5.00	ug/Kg
78-93-3	2-Butanone	94.7		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.2		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.8		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	22.3		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	86.9		3.60	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBS01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023216.D	1	08/28/25 10:58	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	91.9		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.7		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	24.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.4		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.5		0.82	5.00	ug/Kg
100-42-5	Styrene	20.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.4		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.6		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.9		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.6		70 (63) - 130 (155)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 (70) - 130 (134)	97%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (74) - 130 (123)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		70 (17) - 130 (146)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	498000	7.713			
540-36-3	1,4-Difluorobenzene	773000	8.616			
3114-55-4	Chlorobenzene-d5	675000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	338000	13.346			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBS01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023216.D	1	08/28/25 10:58	VY082825

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023216.D
 Acq On : 28 Aug 2025 10:58
 Operator : SY/MD
 Sample : VY0828SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0828SBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/29/2025
 Supervised By : Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:06:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	498098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	773362	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	674652	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	338228	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	211496	44.552	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.100%		
35) Dibromofluoromethane	7.634	113	224907	48.602	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.200%		
50) Toluene-d8	10.109	98	870100	48.131	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.260%		
62) 4-Bromofluorobenzene	12.408	95	271734	46.739	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	93.480%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	83858	20.625	ug/l	97
3) Chloromethane	2.074	50	125293	19.026	ug/l	100
4) Vinyl Chloride	2.208	62	158742	19.501	ug/l	100
5) Bromomethane	2.598	94	129210	21.254	ug/l	99
6) Chloroethane	2.739	64	108018	19.959	ug/l	94
7) Trichlorofluoromethane	3.062	101	192173	19.415	ug/l	98
8) Diethyl Ether	3.458	74	51389	19.624	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	102761	21.044	ug/l	97
10) Methyl Iodide	4.007	142	108284	20.550	ug/l	99
11) Tert butyl alcohol	4.866	59	27140	83.437	ug/l	98
12) 1,1-Dichloroethene	3.793	96	100174	20.870	ug/l	94
13) Acrolein	3.653	56	23134	48.563	ug/l	96
14) Allyl chloride	4.385	41	131421	18.608	ug/l	97
15) Acrylonitrile	5.061	53	94735	88.983	ug/l	99
16) Acetone	3.872	43	112821	109.699	ug/l	98
17) Carbon Disulfide	4.110	76	306008	19.552	ug/l	98
18) Methyl Acetate	4.391	43	54395	17.773	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	232384	18.684	ug/l	100
20) Methylene Chloride	4.616	84	116812	20.240	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	110389	20.465	ug/l	97
22) Diisopropyl ether	6.018	45	290855	18.951	ug/l	93
23) Vinyl Acetate	5.964	43	759068	89.446	ug/l	98
24) 1,1-Dichloroethane	5.921	63	187797	20.014	ug/l	100
25) 2-Butanone	6.896	43	132415	94.667	ug/l	96
26) 2,2-Dichloropropane	6.890	77	166801	20.601	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	125779	20.170	ug/l	97
28) Bromochloromethane	7.250	49	71877	19.308	ug/l	91
29) Tetrahydrofuran	7.262	42	73570	84.854	ug/l	97
30) Chloroform	7.421	83	202146	20.889	ug/l	95
31) Cyclohexane	7.701	56	163947	18.541	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	176604	20.567	ug/l	99
36) 1,1-Dichloropropene	7.841	75	139904	20.343	ug/l	97
37) Ethyl Acetate	6.988	43	52562	18.194	ug/l	97
38) Carbon Tetrachloride	7.823	117	157947	21.145	ug/l	97
39) Methylcyclohexane	9.109	83	182393	20.140	ug/l	97
40) Benzene	8.085	78	440711	20.792	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023216.D
 Acq On : 28 Aug 2025 10:58
 Operator : SY/MD
 Sample : VY0828SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0828SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
 Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:06:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	31972	19.176	ug/l	96
42) 1,2-Dichloroethane	8.158	62	109363	19.838	ug/l	99
43) Isopropyl Acetate	8.201	43	103991	17.810	ug/l #	83
44) Trichloroethene	8.865	130	121943	22.262	ug/l	99
45) 1,2-Dichloropropane	9.146	63	98914	20.281	ug/l	97
46) Dibromomethane	9.231	93	56739	20.269	ug/l	96
47) Bromodichloromethane	9.426	83	149137	20.705	ug/l	98
48) Methyl methacrylate	9.225	41	49287	17.640	ug/l	96
49) 1,4-Dioxane	9.231	88	12530	381.748	ug/l	91
51) 4-Methyl-2-Pentanone	9.999	43	261747	86.904	ug/l	99
52) Toluene	10.170	92	283148	21.032	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	126830	19.445	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	153698	19.927	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	79072	21.110	ug/l	98
56) Ethyl methacrylate	10.438	69	86063	17.956	ug/l	96
57) 1,3-Dichloropropane	10.719	76	127696	20.102	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	188653	83.442	ug/l	97
59) 2-Hexanone	10.762	43	188411	91.868	ug/l	99
60) Dibromochloromethane	10.914	129	102355	20.709	ug/l	99
61) 1,2-Dibromoethane	11.018	107	70975	20.160	ug/l	100
64) Tetrachloroethene	10.646	164	149009	24.735	ug/l	97
65) Chlorobenzene	11.444	112	307503	21.131	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.517	131	104833	21.226	ug/l	97
67) Ethyl Benzene	11.517	91	511453	20.423	ug/l	96
68) m/p-Xylenes	11.627	106	404563	41.363	ug/l	98
69) o-Xylene	11.956	106	187580	20.477	ug/l	100
70) Styrene	11.969	104	305060	20.363	ug/l	99
71) Bromoform	12.133	173	58850	20.388	ug/l #	99
73) Isopropylbenzene	12.255	105	490612	20.552	ug/l	100
74) N-amyl acetate	12.072	43	84323	16.657	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	73253	17.972	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	59295m	18.165	ug/l	
77) Bromobenzene	12.536	156	121226	21.286	ug/l	94
78) n-propylbenzene	12.597	91	582228	20.486	ug/l	98
79) 2-Chlorotoluene	12.682	91	335016	20.573	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	397240	20.590	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	25038	18.567	ug/l	98
82) 4-Chlorotoluene	12.779	91	345600	20.459	ug/l	98
83) tert-Butylbenzene	12.999	119	354889	20.367	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	393756	20.502	ug/l	99
85) sec-Butylbenzene	13.176	105	529646	20.692	ug/l	99
86) p-Isopropyltoluene	13.292	119	443763	20.886	ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	234109	20.845	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	232922	20.907	ug/l	99
89) n-Butylbenzene	13.621	91	388450	19.906	ug/l	99
90) Hexachloroethane	13.877	117	93560	21.511	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	206517	20.967	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11525	18.160	ug/l	92
93) 1,2,4-Trichlorobenzene	14.919	180	115389	19.811	ug/l	98
94) Hexachlorobutadiene	15.023	225	71675	20.941	ug/l	97
95) Naphthalene	15.145	128	172952	17.414	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	97205	19.367	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023216.D
Acq On : 28 Aug 2025 10:58
Operator : SY/MD
Sample : VY0828SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:06:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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

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

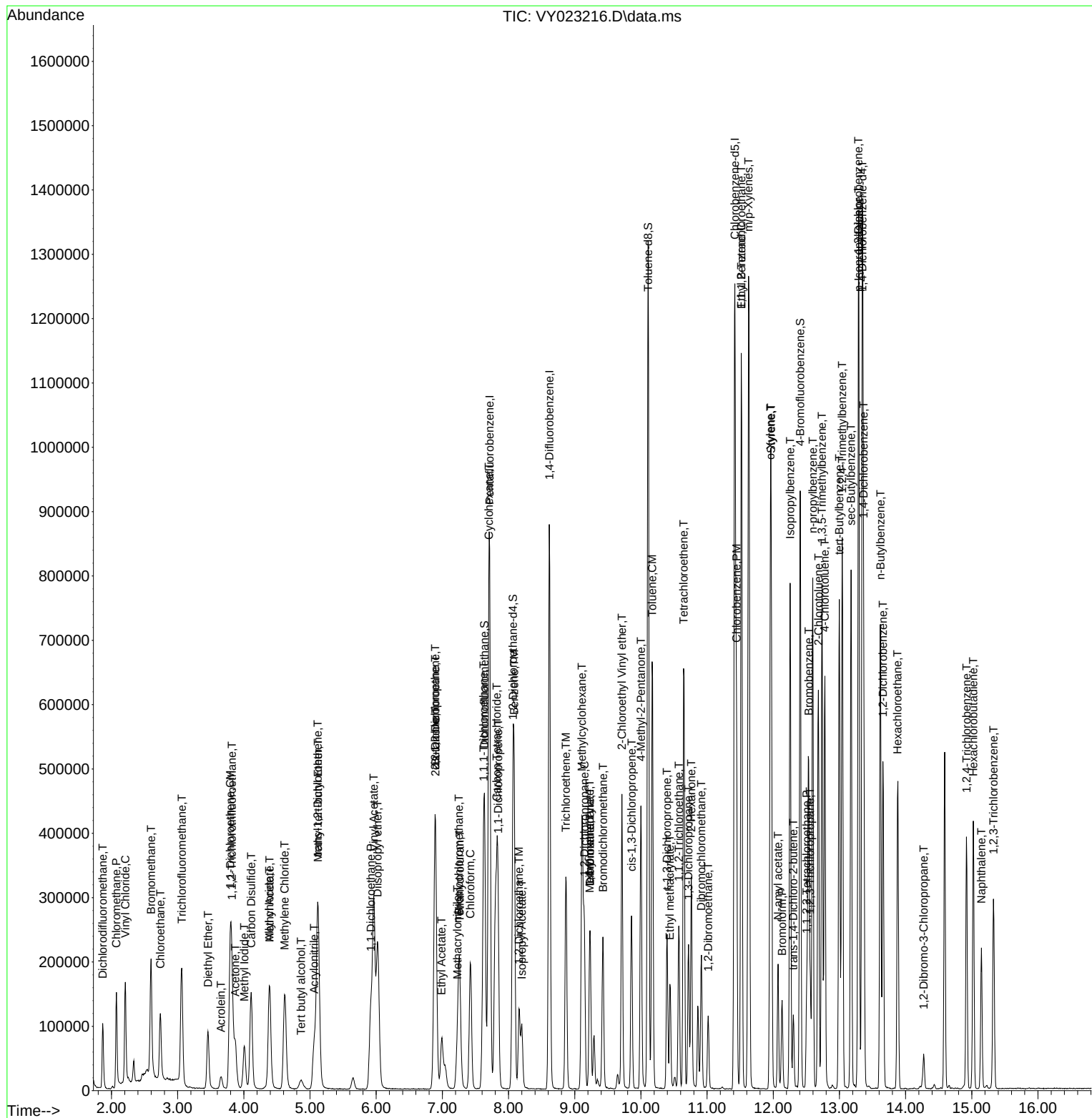
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023216.D
Acq On : 28 Aug 2025 10:58
Operator : SY/MD
Sample : VY08285BS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBS01

Manual Integrations

Reviewed By :Semsettin Yesilyurt 08/29/2025
Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:06:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBSD01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023217.D	1	08/28/25 11:20	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.7		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.6		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.7		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.7		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	22.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.4		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.6		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.5		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	22.2		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.1		3.60	25.0	ug/Kg
108-88-3	Toluene	20.8		0.78	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBSD01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023217.D	1	08/28/25 11:20	VY082825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.9		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	21.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	24.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.7		0.82	5.00	ug/Kg
100-42-5	Styrene	21.2		0.71	5.00	ug/Kg
75-25-2	Bromoform	22.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.8		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	21.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.1		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		70 (63) - 130 (155)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (70) - 130 (134)	99%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (17) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	480000	7.713			
540-36-3	1,4-Difluorobenzene	763000	8.616			
3114-55-4	Chlorobenzene-d5	660000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	335000	13.347			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Buff	Date Received:	
Client Sample ID:	VY0828SBSD01	SDG No.:	Q2964
Lab Sample ID:	VY0828SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VY023217.D	1	08/28/25 11:20	VY082825

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023217.D
 Acq On : 28 Aug 2025 11:20
 Operator : SY/MD
 Sample : VY0828SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0828SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
 Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:07:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	479921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	762688	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	660180	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	335118	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.067	65	218562	47.784	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.560%
35) Dibromofluoromethane	7.634	113	226580	49.649	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.300%
50) Toluene-d8	10.109	98	862905	48.401	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.800%
62) 4-Bromofluorobenzene	12.402	95	272412	47.512	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	95.020%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	80920	20.657	ug/l	99
3) Chloromethane	2.074	50	124106	19.560	ug/l	96
4) Vinyl Chloride	2.208	62	153540	19.576	ug/l	97
5) Bromomethane	2.592	94	129511	22.110	ug/l	98
6) Chloroethane	2.739	64	106516	20.427	ug/l	98
7) Trichlorofluoromethane	3.056	101	187616	19.673	ug/l	99
8) Diethyl Ether	3.458	74	54900	21.758	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.818	101	98798	20.998	ug/l	97
10) Methyl Iodide	4.007	142	110516	21.768	ug/l	99
11) Tert butyl alcohol	4.866	59	31803	101.476	ug/l #	83
12) 1,1-Dichloroethene	3.793	96	95780	20.710	ug/l	93
13) Acrolein	3.659	56	24260	52.856	ug/l	94
14) Allyl chloride	4.385	41	127813	18.782	ug/l	97
15) Acrylonitrile	5.061	53	105424	102.774	ug/l	99
16) Acetone	3.873	43	123676	124.808	ug/l	99
17) Carbon Disulfide	4.110	76	298694	19.808	ug/l	100
18) Methyl Acetate	4.385	43	61088	20.716	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	243063	20.282	ug/l	96
20) Methylene Chloride	4.622	84	121753	22.130	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	109960	21.157	ug/l	93
22) Diisopropyl ether	6.019	45	294410	19.910	ug/l	93
23) Vinyl Acetate	5.964	43	795497	97.289	ug/l	100
24) 1,1-Dichloroethane	5.921	63	184265	20.382	ug/l	99
25) 2-Butanone	6.896	43	153350	113.786	ug/l	93
26) 2,2-Dichloropropane	6.890	77	160990	20.637	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	125451	20.880	ug/l	97
28) Bromochloromethane	7.250	49	72863	20.314	ug/l	92
29) Tetrahydrofuran	7.268	42	82325	98.548	ug/l	97
30) Chloroform	7.427	83	196743	21.101	ug/l	97
31) Cyclohexane	7.707	56	158599	18.616	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	171906	20.779	ug/l	100
36) 1,1-Dichloropropene	7.835	75	136067	20.062	ug/l	99
37) Ethyl Acetate	6.988	43	60335	21.177	ug/l	99
38) Carbon Tetrachloride	7.823	117	152840	20.748	ug/l	99
39) Methylcyclohexane	9.110	83	170945	19.140	ug/l	99
40) Benzene	8.085	78	436012	20.858	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
 Data File : VY023217.D
 Acq On : 28 Aug 2025 11:20
 Operator : SY/MD
 Sample : VY0828SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0828SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
 Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:07:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	35133m	21.367	ug/l	
42) 1,2-Dichloroethane	8.158	62	111502	20.509	ug/l	100
43) Isopropyl Acetate	8.201	43	112377	19.515	ug/l	98
44) Trichloroethene	8.866	130	120044	22.222	ug/l	99
45) 1,2-Dichloropropane	9.140	63	99870	20.764	ug/l	98
46) Dibromomethane	9.231	93	59323	21.489	ug/l	98
47) Bromodichloromethane	9.427	83	150480	21.184	ug/l	99
48) Methyl methacrylate	9.225	41	53557	19.436	ug/l	95
49) 1,4-Dioxane	9.231	88	13582	419.590	ug/l	92
51) 4-Methyl-2-Pentanone	10.000	43	294258	99.066	ug/l	98
52) Toluene	10.170	92	276617	20.835	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	131460	20.437	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	155574	20.453	ug/l	96
55) 1,1,2-Trichloroethane	10.573	97	79066	21.404	ug/l	98
56) Ethyl methacrylate	10.439	69	92622	19.595	ug/l	98
57) 1,3-Dichloropropane	10.719	76	131619	21.009	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	212280	95.206	ug/l	97
59) 2-Hexanone	10.762	43	214877	106.238	ug/l	98
60) Dibromochloromethane	10.908	129	106819	21.915	ug/l	100
61) 1,2-Dibromoethane	11.018	107	74321	21.406	ug/l	100
64) Tetrachloroethene	10.646	164	146079	24.780	ug/l	98
65) Chlorobenzene	11.438	112	307302	21.580	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.518	131	107067	22.154	ug/l	99
67) Ethyl Benzene	11.518	91	503041	20.527	ug/l	99
68) m/p-Xylenes	11.627	106	400278	41.822	ug/l	98
69) o-Xylene	11.957	106	185791	20.726	ug/l	100
70) Styrene	11.969	104	311379	21.240	ug/l	98
71) Bromoform	12.133	173	63685	22.546	ug/l	99
73) Isopropylbenzene	12.255	105	479810	20.286	ug/l	100
74) N-amyl acetate	12.072	43	91354	18.213	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.505	83	77898	19.289	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	61725m	19.085	ug/l	
77) Bromobenzene	12.530	156	121154	21.471	ug/l	95
78) n-propylbenzene	12.597	91	572555	20.332	ug/l	99
79) 2-Chlorotoluene	12.676	91	330400	20.478	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	393761	20.599	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	26531	19.857	ug/l	99
82) 4-Chlorotoluene	12.773	91	341594	20.409	ug/l	99
83) tert-Butylbenzene	12.999	119	352168	20.398	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	389109	20.448	ug/l	99
85) sec-Butylbenzene	13.176	105	518228	20.434	ug/l	100
86) p-Isopropyltoluene	13.292	119	431719	20.508	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	236011	21.210	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	233280	21.134	ug/l	98
89) n-Butylbenzene	13.615	91	382471	19.782	ug/l	100
90) Hexachloroethane	13.877	117	92367	21.434	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	209755	21.494	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	13071	20.788	ug/l	97
93) 1,2,4-Trichlorobenzene	14.919	180	121854	21.115	ug/l	98
94) Hexachlorobutadiene	15.023	225	74088	21.847	ug/l	99
95) Naphthalene	15.145	128	199469	20.270	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	105174	21.149	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082825\
Data File : VY023217.D
Acq On : 28 Aug 2025 11:20
Operator : SY/MD
Sample : VY0828SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/29/2025
Supervised By :Mahesh Dadoda 08/29/2025

Quant Time: Aug 29 02:07:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

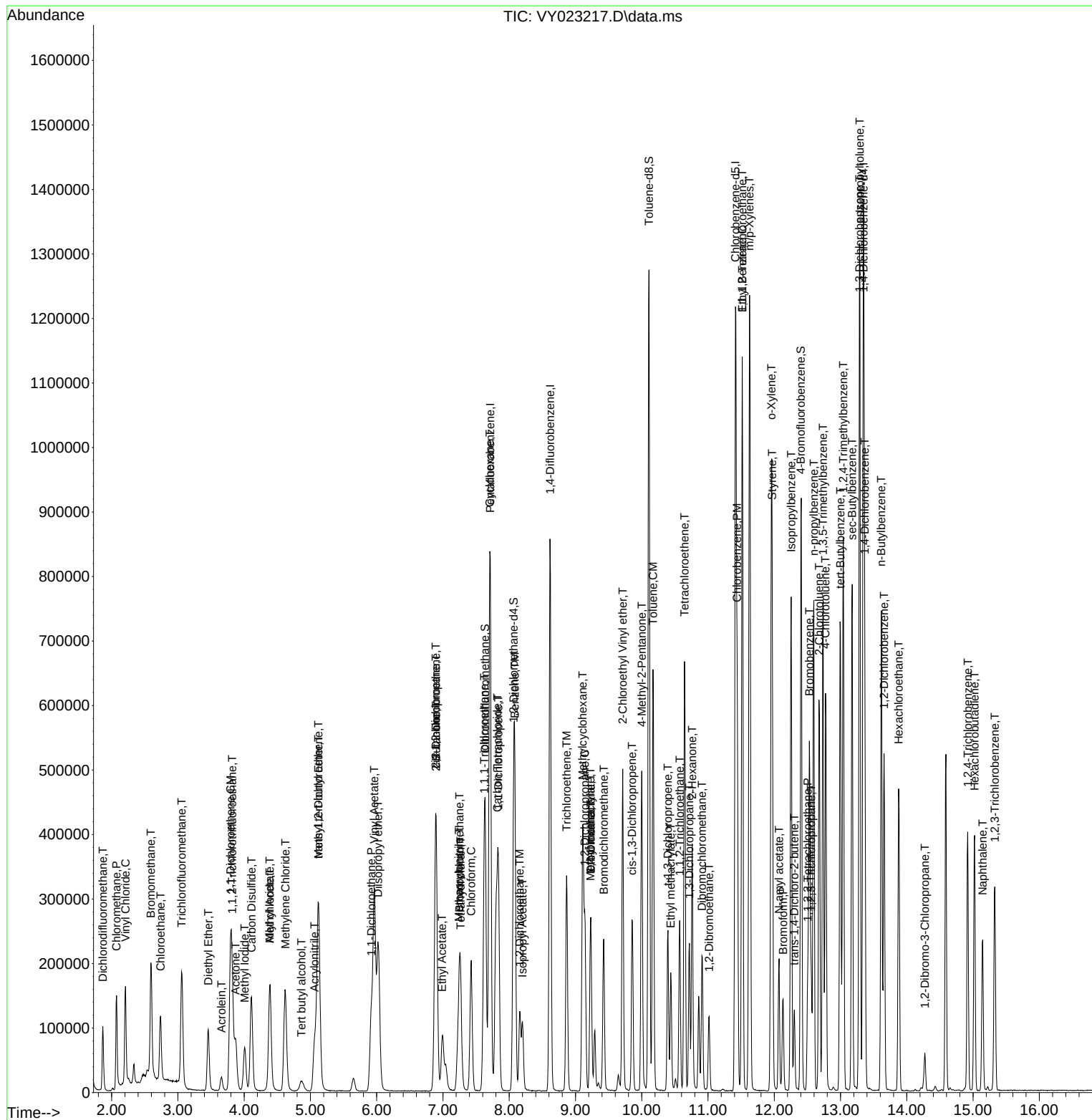
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_Y
ClientSampleId :
VY0828SBSD01

Manual Integrations

Reviewed By :Semsettin Yesilyurt 08/29/2025
Supervised By :Mahesh Dadoda 08/29/2025



Manual Integration Report

Sequence:	VN082125	Instrument	MSVOA_n
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN087619.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	1,4-Dichlorobenzene	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	Diethyl Ether	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	Ethyl Acetate	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	Methyl Acetate	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC001	VN087619.D	N-amyl acetate	JOHN	8/22/2025 9:16:40 AM	MMDadoda	8/25/2025 8:11:19 AM	Peak Integrated by Software
VSTDICC005	VN087620.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:16:49 AM	MMDadoda	8/25/2025 8:11:20 AM	Peak Integrated by Software
VSTDICC005	VN087620.D	Ethyl Acetate	JOHN	8/22/2025 9:16:49 AM	MMDadoda	8/25/2025 8:11:20 AM	Peak Integrated by Software
VSTDICC005	VN087620.D	N-amyl acetate	JOHN	8/22/2025 9:16:49 AM	MMDadoda	8/25/2025 8:11:20 AM	Peak Integrated by Software
VSTDICC020	VN087621.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:20 AM	MMDadoda	8/25/2025 8:11:22 AM	Peak Integrated by Software
VSTDICC020	VN087621.D	N-amyl acetate	JOHN	8/22/2025 9:17:20 AM	MMDadoda	8/25/2025 8:11:22 AM	Peak Integrated by Software
VSTDICCC050	VN087622.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:24 AM	MMDadoda	8/25/2025 8:11:23 AM	Peak Integrated by Software
VSTDICCC050	VN087622.D	N-amyl acetate	JOHN	8/22/2025 9:17:24 AM	MMDadoda	8/25/2025 8:11:23 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN082125

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN087623.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:28 AM	MMDadoda	8/25/2025 8:11:24 AM	Peak Integrated by Software
VSTDICC150	VN087624.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:33 AM	MMDadoda	8/25/2025 8:11:26 AM	Peak Integrated by Software
VSTDICV050	VN087626.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:17:37 AM	MMDadoda	8/25/2025 8:11:28 AM	Peak Integrated by Software
VSTDICV050	VN087626.D	N-amyl acetate	JOHN	8/22/2025 9:17:37 AM	MMDadoda	8/25/2025 8:11:28 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN082825

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087676.D	1,2,3-Trichloropropane	JOHN	8/29/2025 8:41:09 AM	Sam	8/29/2025 1:23:23 PM	Peak Integrated by Software
VSTDCCC050	VN087676.D	N-amyl acetate	JOHN	8/29/2025 8:41:09 AM	Sam	8/29/2025 1:23:23 PM	Peak Integrated by Software
VN0828MBS01	VN087680.D	1,2,3-Trichloropropane	JOHN	8/29/2025 8:41:18 AM	Sam	8/29/2025 1:23:36 PM	Peak Integrated by Software
VN0828MBS01	VN087680.D	N-amyl acetate	JOHN	8/29/2025 8:41:18 AM	Sam	8/29/2025 1:23:36 PM	Peak Integrated by Software
VSTDCCC050	VN087691.D	1,2,3-Trichloropropane	JOHN	8/29/2025 8:41:42 AM	Sam	8/29/2025 1:23:54 PM	Peak Integrated by Software
VSTDCCC050	VN087691.D	N-amyl acetate	JOHN	8/29/2025 8:41:42 AM	Sam	8/29/2025 1:23:54 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN082925

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087693.D	1,2,3-Trichloropropane	JOHN	9/2/2025 8:35:23 AM	sam	9/3/2025 1:55:52 AM	Peak Integrated by Software
VSTDCCC050	VN087693.D	N-amyl acetate	JOHN	9/2/2025 8:35:23 AM	sam	9/3/2025 1:55:52 AM	Peak Integrated by Software
VN0829MBS01	VN087696.D	1,2,3-Trichloropropane	JOHN	9/2/2025 8:35:28 AM	sam	9/3/2025 1:55:58 AM	Peak Integrated by Software
VN0829MBS01	VN087696.D	N-amyl acetate	JOHN	9/2/2025 8:35:28 AM	sam	9/3/2025 1:55:58 AM	Peak Integrated by Software
VSTDCCC050	VN087701.D	1,2,3-Trichloropropane	JOHN	9/2/2025 8:35:37 AM	sam	9/3/2025 1:56:10 AM	Peak Integrated by Software
VSTDCCC050	VN087701.D	N-amyl acetate	JOHN	9/2/2025 8:35:37 AM	sam	9/3/2025 1:56:10 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY081225

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY023050.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC005	VY023050.D	Methacrylonitrile	MMDadod a	8/14/2025 7:33:57 PM	SAM	8/14/2025 7:43:56 PM	Peak Integrated by Software
VSTDICC010	VY023051.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:06 PM	SAM	8/14/2025 7:43:57 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICC020	VY023052.D	Methacrylonitrile	MMDadod a	8/14/2025 7:34:08 PM	SAM	8/14/2025 7:43:59 PM	Peak Integrated by Software
VSTDICCC050	VY023053.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:10 PM	SAM	8/14/2025 7:44:00 PM	Peak Integrated by Software
VSTDICC100	VY023054.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:12 PM	SAM	8/14/2025 7:44:02 PM	Peak Integrated by Software
VSTDICC150	VY023055.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:15 PM	SAM	8/14/2025 7:44:04 PM	Peak Integrated by Software
VSTDICV050	VY023057.D	1,2,3-Trichloropropane	MMDadod a	8/14/2025 7:34:16 PM	SAM	8/14/2025 7:44:06 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY082825	Instrument	MSVOA_y
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023214.D	1,2,3-Trichloropropane	Sam	8/29/2025 1:18:34 PM	MMDadoda	8/29/2025 1:26:43 PM	Peak Integrated by Software
VY0828SBS01	VY023216.D	1,2,3-Trichloropropane	Sam	8/29/2025 1:18:40 PM	MMDadoda	8/29/2025 1:26:50 PM	Peak Integrated by Software
VY0828SBSD0 1	VY023217.D	1,2,3-Trichloropropane	Sam	8/29/2025 1:18:52 PM	MMDadoda	8/29/2025 1:26:56 PM	Peak Integrated by Software
VY0828SBSD0 1	VY023217.D	Methacrylonitrile	Sam	8/29/2025 1:18:52 PM	MMDadoda	8/29/2025 1:26:56 PM	Peak Integrated by Software
VSTDCCC050	VY023231.D	1,2,3-Trichloropropane	Sam	8/29/2025 1:19:34 PM	MMDadoda	8/29/2025 1:27:18 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN082125

Review By	John Carlone	Review On	8/22/2025 9:17:52 AM
Supervise By	Mahesh Dadoda	Supervise On	8/25/2025 8:11:38 AM
SubDirectory	VN082125	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135214		
Initial Calibration Stds	VP135215,VP135216,VP135217,VP135218,VP135219,VP135220		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP135221		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087614.D	21 Aug 2025 09:30	JC\MD	Ok
2	VSTDCCC020	VN087615.D	21 Aug 2025 10:04	JC\MD	Not Ok
3	VN0821WBS01	VN087616.D	21 Aug 2025 10:37	JC\MD	Not Ok
4	VN0821WBSD01	VN087617.D	21 Aug 2025 11:11	JC\MD	Not Ok
5	VN0821WBL01	VN087618.D	21 Aug 2025 11:36	JC\MD	Not Ok
6	VSTDICC001	VN087619.D	21 Aug 2025 12:09	JC\MD	Ok,M
7	VSTDICC005	VN087620.D	21 Aug 2025 13:08	JC\MD	Ok,M
8	VSTDICC020	VN087621.D	21 Aug 2025 13:41	JC\MD	Ok,M
9	VSTDICCC050	VN087622.D	21 Aug 2025 14:02	JC\MD	Ok,M
10	VSTDICC100	VN087623.D	21 Aug 2025 14:23	JC\MD	Ok,M
11	VSTDICC150	VN087624.D	21 Aug 2025 14:44	JC\MD	Ok,M
12	IBLK	VN087625.D	21 Aug 2025 15:05	JC\MD	Ok
13	VSTDICV050	VN087626.D	21 Aug 2025 15:47	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN082825

Review By	John Carlone	Review On	8/29/2025 8:42:53 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/29/2025 1:24:27 PM
SubDirectory	VN082825	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135317		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135318,VP135319		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087675.D	28 Aug 2025 11:00	JC\MD	Ok
2	VSTDCCC050	VN087676.D	28 Aug 2025 11:33	JC\MD	Ok,M
3	VN0828MBL01	VN087677.D	28 Aug 2025 12:09	JC\MD	Ok
4	VN0828WBL01	VN087678.D	28 Aug 2025 12:30	JC\MD	Ok
5	VN0828WBS01	VN087679.D	28 Aug 2025 12:50	JC\MD	Ok,M
6	VN0828MBS01	VN087680.D	28 Aug 2025 13:24	JC\MD	Ok,M
7	Q2971-37	VN087681.D	28 Aug 2025 13:44	JC\MD	Ok
8	PB169423TB	VN087682.D	28 Aug 2025 14:05	JC\MD	Ok
9	Q2959-01	VN087683.D	28 Aug 2025 14:26	JC\MD	Ok
10	Q2959-02	VN087684.D	28 Aug 2025 14:47	JC\MD	Ok
11	Q2959-03	VN087685.D	28 Aug 2025 15:08	JC\MD	Ok
12	IBLK	VN087686.D	28 Aug 2025 15:29	JC\MD	Ok
13	Q2977-01	VN087687.D	28 Aug 2025 15:50	JC\MD	Not Ok
14	VN0828WBSD01	VN087688.D	28 Aug 2025 16:11	JC\MD	Ok,M
15	Q2964-04	VN087689.D	28 Aug 2025 16:32	JC\MD	Dilution
16	IBLK	VN087690.D	28 Aug 2025 16:53	JC\MD	Ok
17	VSTDCCC050	VN087691.D	28 Aug 2025 17:14	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN082925

Review By	John Carlone	Review On	9/2/2025 8:36:18 AM
Supervise By	Semsettin Yesilyurt	Supervise On	9/3/2025 1:56:28 AM
SubDirectory	VN082925	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135338		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135339,VP135340		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087692.D	29 Aug 2025 11:32	JC\MD	Ok
2	VSTDCCC050	VN087693.D	29 Aug 2025 12:05	JC\MD	Ok,M
3	VN0829MBL01	VN087694.D	29 Aug 2025 12:42	JC\MD	Ok
4	VN0829WBL01	VN087695.D	29 Aug 2025 13:03	JC\MD	Ok
5	VN0829MBS01	VN087696.D	29 Aug 2025 13:24	JC\MD	Ok,M
6	VN0829MBSD01	VN087697.D	29 Aug 2025 13:57	JC\MD	Ok,M
7	Q2964-04DL	VN087698.D	29 Aug 2025 14:18	JC\MD	Ok
8	Q2982-01	VN087699.D	29 Aug 2025 14:54	JC\MD	Ok
9	IBLK	VN087700.D	29 Aug 2025 15:31	JC\MD	Ok
10	VSTDCCC050	VN087701.D	29 Aug 2025 15:51	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

Review By	Mahesh Dadoda	Review On	8/14/2025 7:34:22 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM		
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP135083			
Initial Calibration Stds		VP135084,VP135085,VP135086,VP135087,VP135088,VP135089			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP135090			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023048.D	12 Aug 2025 08:26	SY/MD	Ok
2	VSTDICC005	VY023049.D	12 Aug 2025 14:32	SY/MD	Not Ok
3	VSTDICC005	VY023050.D	12 Aug 2025 14:54	SY/MD	Ok,M
4	VSTDICC010	VY023051.D	12 Aug 2025 15:17	SY/MD	Ok,M
5	VSTDICC020	VY023052.D	12 Aug 2025 15:40	SY/MD	Ok,M
6	VSTDICCC050	VY023053.D	12 Aug 2025 16:02	SY/MD	Ok,M
7	VSTDICC100	VY023054.D	12 Aug 2025 16:25	SY/MD	Ok,M
8	VSTDICC150	VY023055.D	12 Aug 2025 16:47	SY/MD	Ok,M
9	VIBLK	VY023056.D	12 Aug 2025 17:31	SY/MD	Ok
10	VSTDICV050	VY023057.D	12 Aug 2025 17:53	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_Y**

Daily Analysis Runlog For Sequence/QCBatch ID # VY082825

Review By	Semsettin Yesilyurt	Review On	8/29/2025 1:19:49 PM
Supervise By	Maresh Dadoda	Supervise On	8/29/2025 1:27:41 PM
SubDirectory	VY082825	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y081225s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135321		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135325,VP135326,LOD VP135327,VP135328,LOQ VP135329 VP133934		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023213.D	28 Aug 2025 07:57	SY/MD	Ok
2	VSTDCCC050	VY023214.D	28 Aug 2025 09:03	SY/MD	Ok,M
3	VY0828SBL01	VY023215.D	28 Aug 2025 10:02	SY/MD	Ok
4	VY0828SBS01	VY023216.D	28 Aug 2025 10:58	SY/MD	Ok,M
5	VY0828SBS01	VY023217.D	28 Aug 2025 11:20	SY/MD	Ok,M
6	Q2893-01	VY023218.D	28 Aug 2025 11:59	SY/MD	ReRun
7	Q2893-01	VY023219.D	28 Aug 2025 12:22	SY/MD	ReRun
8	Q2893-02	VY023220.D	28 Aug 2025 12:44	SY/MD	Ok,M
9	Q2970-01	VY023221.D	28 Aug 2025 13:07	SY/MD	Ok
10	Q2970-07	VY023222.D	28 Aug 2025 13:31	SY/MD	Ok
11	Q2970-13	VY023223.D	28 Aug 2025 13:54	SY/MD	Ok
12	Q2970-19	VY023224.D	28 Aug 2025 14:18	SY/MD	Ok
13	Q2970-25	VY023225.D	28 Aug 2025 14:41	SY/MD	Ok
14	Q2970-31	VY023226.D	28 Aug 2025 15:04	SY/MD	Ok
15	Q2960-01	VY023227.D	28 Aug 2025 15:28	SY/MD	Ok
16	Q2969-01	VY023228.D	28 Aug 2025 15:51	SY/MD	Ok
17	Q2964-01	VY023229.D	28 Aug 2025 16:15	SY/MD	Ok
18	VIBLK	VY023230.D	28 Aug 2025 16:38	SY/MD	Ok
19	VSTDCCC050	VY023231.D	28 Aug 2025 17:01	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082125

Review By	John Carlone	Review On	8/22/2025 9:17:52 AM
Supervise By	Maresh Dadoda	Supervise On	8/25/2025 8:11:38 AM
SubDirectory	VN082125	HP Acquire Method	HP Processing Method 82N082125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135214 VP135215,VP135216,VP135217,VP135218,VP135219,VP135220 VP135221

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087614.D	21 Aug 2025 09:30		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN087615.D	21 Aug 2025 10:04	Need ICAL	JC\MD	Not Ok
3	VN0821WBS01	VN0821WBS01	VN087616.D	21 Aug 2025 10:37		JC\MD	Not Ok
4	VN0821WBSD01	VN0821WBSD01	VN087617.D	21 Aug 2025 11:11		JC\MD	Not Ok
5	VN0821WBL01	VN0821WBL01	VN087618.D	21 Aug 2025 11:36		JC\MD	Not Ok
6	VSTDICC001	VSTDICC001	VN087619.D	21 Aug 2025 12:09	LR-10,20	JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN087620.D	21 Aug 2025 13:08		JC\MD	Ok,M
8	VSTDICC020	VSTDICC020	VN087621.D	21 Aug 2025 13:41	method not used for #N-amyle Acetate	JC\MD	Ok,M
9	VSTDICCC050	VSTDICCC050	VN087622.D	21 Aug 2025 14:02		JC\MD	Ok,M
10	VSTDICC100	VSTDICC100	VN087623.D	21 Aug 2025 14:23		JC\MD	Ok,M
11	VSTDICC150	VSTDICC150	VN087624.D	21 Aug 2025 14:44		JC\MD	Ok,M
12	IBLK	IBLK	VN087625.D	21 Aug 2025 15:05		JC\MD	Ok
13	VSTDICV050	ICVVN082125	VN087626.D	21 Aug 2025 15:47	Icv Failed for Com.# 64 for DOD	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082825

Review By	John Carlone	Review On	8/29/2025 8:42:53 AM
Supervise By	Semsettin Yesilyurt	Supervise On	8/29/2025 1:24:27 PM
SubDirectory	VN082825	HP Acquire Method	HP Processing Method 82N082125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135317
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135318,VP135319

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087675.D	28 Aug 2025 11:00		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087676.D	28 Aug 2025 11:33	pH#Lot#V12668	JC\MD	Ok,M
3	VN0828MBL01	VN0828MBL01	VN087677.D	28 Aug 2025 12:09		JC\MD	Ok
4	VN0828WBL01	VN0828WBL01	VN087678.D	28 Aug 2025 12:30		JC\MD	Ok
5	VN0828WBS01	VN0828WBS01	VN087679.D	28 Aug 2025 12:50		JC\MD	Ok,M
6	VN0828MBS01	VN0828MBS01	VN087680.D	28 Aug 2025 13:24		JC\MD	Ok,M
7	Q2971-37	GROUNDWATER	VN087681.D	28 Aug 2025 13:44	vial B pH<2	JC\MD	Ok
8	PB169423TB	PB169423TB	VN087682.D	28 Aug 2025 14:05		JC\MD	Ok
9	Q2959-01	NWB-2200	VN087683.D	28 Aug 2025 14:26	vial A pH#5.0	JC\MD	Ok
10	Q2959-02	NWB-2201	VN087684.D	28 Aug 2025 14:47	vial A pH#5.0	JC\MD	Ok
11	Q2959-03	NWB-2202	VN087685.D	28 Aug 2025 15:08	vial A pH#5.0	JC\MD	Ok
12	IBLK	IBLK	VN087686.D	28 Aug 2025 15:29		JC\MD	Ok
13	Q2977-01	33125	VN087687.D	28 Aug 2025 15:50	Surrogate Fail;Run @ lower dilution	JC\MD	Not Ok
14	VN0828WBSD01	VN0828WBSD01	VN087688.D	28 Aug 2025 16:11		JC\MD	Ok,M
15	Q2964-04	RPXY1R	VN087689.D	28 Aug 2025 16:32	Need 100X	JC\MD	Dilution
16	IBLK	IBLK	VN087690.D	28 Aug 2025 16:53		JC\MD	Ok
17	VSTDCCC050	VSTDCCC050EC	VN087691.D	28 Aug 2025 17:14		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN082925

Review By	John Carlone	Review On	9/2/2025 8:36:18 AM
Supervise By	Semsettin Yesilyurt	Supervise On	9/3/2025 1:56:28 AM
SubDirectory	VN082925	HP Acquire Method	HP Processing Method 82N082125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135338
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135339,VP135340

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087692.D	29 Aug 2025 11:32		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087693.D	29 Aug 2025 12:05		JC\MD	Ok,M
3	VN0829MBL01	VN0829MBL01	VN087694.D	29 Aug 2025 12:42		JC\MD	Ok
4	VN0829WBL01	VN0829WBL01	VN087695.D	29 Aug 2025 13:03		JC\MD	Ok
5	VN0829MBS01	VN0829MBS01	VN087696.D	29 Aug 2025 13:24		JC\MD	Ok,M
6	VN0829MBSD01	VN0829MBSD01	VN087697.D	29 Aug 2025 13:57		JC\MD	Ok,M
7	Q2964-04DL	RPXY1RDL	VN087698.D	29 Aug 2025 14:18		JC\MD	Ok
8	Q2982-01	MOO-25-0237	VN087699.D	29 Aug 2025 14:54	cloth material	JC\MD	Ok
9	IBLK	IBLK	VN087700.D	29 Aug 2025 15:31		JC\MD	Ok
10	VSTDCCC050	VSTDCCC050EC	VN087701.D	29 Aug 2025 15:51		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY081225

Review By	Maresh Dadoda	Review On	8/14/2025 7:34:22 PM
Supervise By	Semsettin Yesilyurt	Supervise On	8/14/2025 7:44:13 PM
SubDirectory	VY081225	HP Acquire Method	MSVOA_Y HP Processing Method 82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135083 VP135084,VP135085,VP135086,VP135087,VP135088,VP135089
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133934 VP135090

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023048.D	12 Aug 2025 08:26		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY023049.D	12 Aug 2025 14:32	Not used	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VY023050.D	12 Aug 2025 14:54		SY/MD	Ok,M
4	VSTDICC010	VSTDICC010	VY023051.D	12 Aug 2025 15:17		SY/MD	Ok,M
5	VSTDICC020	VSTDICC020	VY023052.D	12 Aug 2025 15:40	LR-20	SY/MD	Ok,M
6	VSTDICCC050	VSTDICCC050	VY023053.D	12 Aug 2025 16:02		SY/MD	Ok,M
7	VSTDICC100	VSTDICC100	VY023054.D	12 Aug 2025 16:25		SY/MD	Ok,M
8	VSTDICC150	VSTDICC150	VY023055.D	12 Aug 2025 16:47		SY/MD	Ok,M
9	VIBLK	VIBLK	VY023056.D	12 Aug 2025 17:31		SY/MD	Ok
10	VSTDICV050	ICVVY081225	VY023057.D	12 Aug 2025 17:53		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY082825

Review By	Semsettin Yesilyurt	Review On	8/29/2025 1:19:49 PM
Supervise By	Maresh Dadoda	Supervise On	8/29/2025 1:27:41 PM
SubDirectory	VY082825	HP Acquire Method	MSVOA_Y HP Processing Method 82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135321
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135325,VP135326,LOD VP135327,VP135328,LOQ VP135329 VP133934

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023213.D	28 Aug 2025 07:57		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023214.D	28 Aug 2025 09:03		SY/MD	Ok,M
3	VY0828SBL01	VY0828SBL01	VY023215.D	28 Aug 2025 10:02		SY/MD	Ok
4	VY0828SBS01	VY0828SBS01	VY023216.D	28 Aug 2025 10:58		SY/MD	Ok,M
5	VY0828SBSD01	VY0828SBSD01	VY023217.D	28 Aug 2025 11:20		SY/MD	Ok,M
6	Q2893-01	LOD-MDL-SOIL-01-QT	VY023218.D	28 Aug 2025 11:59	U Flag for com.#13	SY/MD	ReRun
7	Q2893-01	LOD-MDL-SOIL-01-QT	VY023219.D	28 Aug 2025 12:22	U Flag for com.#13	SY/MD	ReRun
8	Q2893-02	LOQ-SOIL-02-QT3-202	VY023220.D	28 Aug 2025 12:44		SY/MD	Ok,M
9	Q2970-01	TP10	VY023221.D	28 Aug 2025 13:07	vial-A	SY/MD	Ok
10	Q2970-07	TP11	VY023222.D	28 Aug 2025 13:31	vial-A	SY/MD	Ok
11	Q2970-13	TP12	VY023223.D	28 Aug 2025 13:54	vial-A	SY/MD	Ok
12	Q2970-19	TP9	VY023224.D	28 Aug 2025 14:18	vial-A	SY/MD	Ok
13	Q2970-25	TP6	VY023225.D	28 Aug 2025 14:41	vial-A	SY/MD	Ok
14	Q2970-31	TP3	VY023226.D	28 Aug 2025 15:04	vial-A	SY/MD	Ok
15	Q2960-01	SU-03-08262025	VY023227.D	28 Aug 2025 15:28	vial-A	SY/MD	Ok
16	Q2969-01	TR-05-08272025	VY023228.D	28 Aug 2025 15:51	vial-A	SY/MD	Ok
17	Q2964-01	RBBX4R	VY023229.D	28 Aug 2025 16:15	vial-A	SY/MD	Ok
18	VIBLK	VIBLK	VY023230.D	28 Aug 2025 16:38		SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY082825

Review By	Semsettin Yesilyurt	Review On	8/29/2025 1:19:49 PM		
Supervise By	Mahesh Dadoda	Supervise On	8/29/2025 1:27:41 PM		
SubDirectory	VY082825	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135321
CCC	VP135325,VP135326,LOD VP135327,VP135328,LOQ VP135329
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VY023231.D	28 Aug 2025 17:01		SY/MD	Ok,M
----	------------	--------------	------------	-------------------	--	-------	------

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/27/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 08/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 08/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136967

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2958-01	1	1	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2958-02	2	2	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2958-03	3	3	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2958-04	4	4	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2959-01	NWB-2200	5	1.17	10.15	11.32	11.3	99.8	
Q2959-02	NWB-2201	6	1.18	10.20	11.38	11.36	99.8	
Q2959-03	NWB-2202	7	1.15	10.42	11.57	11.54	99.7	
Q2959-04	NWB-2154	8	1.19	10.43	11.62	10.68	91.0	
Q2960-01	SU-03-08262025	9	1.18	10.38	11.56	10.82	92.9	
Q2960-02	SU-03-08262025-E2	10	1.19	10.14	11.33	10.42	91.0	
Q2961-03	BC247637-1-1	11	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-04	BC247637-1-2	12	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-05	BC254741-1-1	13	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-06	BC254741-1-2	14	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-07	BC254741-2-1	15	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-08	BC254741-2-2	16	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-09	Y2306-0011-1-1	17	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-10	Y2306-0011-1-2	18	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-11	Y2306-0011-2-1	19	1.00	1.00	2.00	2.00	100.0	PILC
Q2961-12	Y2306-0011-2-2	20	1.00	1.00	2.00	2.00	100.0	PILC
Q2962-01	821-ABC	21	1.00	1.00	2.00	2.00	100.0	oil sample
Q2962-03	821-DEF	22	1.00	1.00	2.00	2.00	100.0	oil sample
Q2962-05	821-GHI	23	1.00	1.00	2.00	2.00	100.0	oil sample
Q2964-01	RBBX4R	24	1.15	10.36	11.51	9.62	81.8	
Q2964-04	RPXY1R	25	1.16	10.58	11.74	10.15	85.0	

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-082625

WorkList ID : 191489

Department : Wet-Chemistry

Date : 08-26-2025 10:14:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2958-01	1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2958-02	2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2958-03	3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2958-04	4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2959-01	NWB-2200	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2959-02	NWB-2201	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2959-03	NWB-2202	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2959-04	NWB-2154	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2960-01	SU-03-08262025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	08/26/2025	Chemtech -SO
Q2960-02	SU-03-08262025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	08/26/2025	Chemtech -SO
Q2961-03	BC247637-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-04	BC247637-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-05	BC254741-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-06	BC254741-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-07	BC254741-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-08	BC254741-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-09	Y2306-0011-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-10	Y2306-0011-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-11	Y2306-0011-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2961-12	Y2306-0011-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2962-01	821-ABC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO

Date/Time 08/26/25 15:00 Date/Time 08/26/25 17:13
 Raw Sample Received by: JD CSM Raw Sample Received by: JD CSM
 Raw Sample Relinquished by: JD CSM Raw Sample Relinquished by: JD CSM

WORKLIST(Hardcopy Internal Chain)

87136967

WorkList Name : %1-082625 WorkList ID : 191489 Department : Wet-Chemistry Date : 08-26-2025 10:14:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2962-03	821-DEF	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2962-05	821-GHI	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/26/2025	Chemtech -SO
Q2964-01	RBBX4R	Solid	Percent Solids	Cool 4 deg C	GENV01	D41	08/25/2025	Chemtech -SO
Q2964-04	RPXY1R	Solid	Percent Solids	Cool 4 deg C	GENV01	D41	08/25/2025	Chemtech -SO

Date/Time 08/26/25 15400
 Raw Sample Received by: SA WJC
 Raw Sample Relinquished by: SA WJC

Date/Time 08/26/25 1715
 Raw Sample Received by: JD CSM
 Raw Sample Relinquished by: SA WJC



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: G Environmental
ADDRESS: 8 Carriage Lane
CITY: Succasunna STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

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

CLIENT BILLING INFORMATION

BILL TO: G Environmental PO#:
ADDRESS: 8 Carriage Lane
CITY: Succasunna STATE: NJ ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 day DAYS*
HARDCOPY (DATA PACKAGE): 5 day DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other add reference
☒ EDD FORMAT 172 site NJ SEP

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	MW3	GW			8/25/25	5	3	X	X		X	X					
2.	RBBX4R	SDI			8/25/25	1000	4			X							
3.	RAX1R	SDI			8/25/25	1106	4			X							
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>2.12</u> °C
1. <u>MA</u>	<u>8/26/25</u>	1. <u>R. J. - 1430</u>	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.		3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2964	GENV01	Order Date : 8/26/2025 2:35:00 PM	Project Mgr : Yazmeen
Client Name : G Environmental		Project Name : Buff	Report Type : NJ Reduced
Client Contact : Gary Landis		Receive DateTime : 8/26/2025 2:30:00 PM	EDD Type : NJ HAZSITE
Invoice Name : G Environmental		Purchase Order :	Hard Copy Date :
Invoice Contact : Gary Landis			Date Signoff : 8/26/2025 4:08:39 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2964-01	RBBX4R	Solid	08/25/2025	10:00					
					VOC-TCLVOA-10		8260D	5 Bus. Days	
Q2964-02	MW3	Water	08/25/2025	00:00					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2964-04	RPXY1R	Solid	08/25/2025	11:06					
					VOC-TCLVOA-10		8260D	5 Bus. Days	

Relinquished By :

Date / Time :


8/26/25

15:30

Received By :

Date / Time :


8/26/25

Storage Area : VOA Refridgerator Room

15:30