

Cover Page

Order ID : Q3109

Project ID : Metuchen

Client : G Environmental

Lab Sample Number

Q3109-01
Q3109-02

Client Sample Number

MW1D
MW1

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: 9/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

G Environmental

Project Name: Metuchen

Project # N/A

Order ID # Q3109

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/16/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

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 of VOCMS Group1 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 Continuous Calibration File ID VN087847.D met the requirements except for Bromochloromethane, Bromoform, 4-Bromofluorobenzene and Dibromofluoromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Sample MW1 was diluted due to high concentration.



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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.

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 #: Q3109

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 Castody

✓

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: 09/19/2025

LAB CHRONICLE

OrderID: Q3109	OrderDate: 9/16/2025 11:02:00 AM
Client: G Environmental	Project: Metuchen
Contact: Gary Landis	Location: VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3109-01	MW1D	Water	VOCMS Group1	8260-Low	09/16/25		09/16/25	09/16/25
Q3109-02	MW1	Water	VOCMS Group1	8260-Low	09/16/25		09/16/25	09/16/25
Q3109-02DL	MW1DL	Water	VOCMS Group1	8260-Low	09/16/25		09/17/25	09/16/25

Hit Summary Sheet
SW-846

SDG No.: Q3109
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW1D							
Q3109-01	MW1D	Water	Toluene	0.71	J	0.14	1.00	ug/L
			Total Voc :	0.71				
			Total Concentration:	0.71				
Client ID:	MW1							
Q3109-02	MW1	Water	Cyclohexane	250	E	1.50	5.00	ug/L
Q3109-02	MW1	Water	Methylcyclohexane	110		0.16	1.00	ug/L
Q3109-02	MW1	Water	Benzene	8.70		0.15	1.00	ug/L
Q3109-02	MW1	Water	Toluene	3.80		0.14	1.00	ug/L
Q3109-02	MW1	Water	Ethyl Benzene	1100	E	0.13	1.00	ug/L
Q3109-02	MW1	Water	m/p-Xylenes	71.2		0.24	2.00	ug/L
Q3109-02	MW1	Water	o-Xylene	11.7		0.12	1.00	ug/L
Q3109-02	MW1	Water	Isopropylbenzene	75.0		0.12	1.00	ug/L
			Total Voc :	1630				
Q3109-02	MW1	Water	Naphthalene, 2-methyl-	* 140	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 1,2,4,5-tetramethyl-	* 130	J	0	0	ug/L
Q3109-02	MW1	Water	Cyclopentane, methyl-	* 72.0	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 1,4-diethyl-	* 61.5	J	0	0	ug/L
Q3109-02	MW1	Water	Pentane, 2-methyl-	* 60.6	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 1,2,3,4-tetramethyl-	* 110	J	0	0	ug/L
Q3109-02	MW1	Water	Indane	* 480	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 1-ethyl-2-methyl-	* 90.2	J	0	0	ug/L
Q3109-02	MW1	Water	Indan, 1-methyl-	* 140	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, (1,2-dimethyl-1-propyl)-	* 57.5	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 4-ethyl-1,2-dimethyl-	* 170	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 2-ethyl-1,4-dimethyl-	* 100	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 2-ethenyl-1,4-dimethyl-	* 290	J	0	0	ug/L
Q3109-02	MW1	Water	Benzene, 1-ethenyl-4-ethyl-	* 130	J	0	0	ug/L
Q3109-02	MW1	Water	n-propylbenzene	* 220	J	0.13	1.00	ug/L
Q3109-02	MW1	Water	1,3,5-Trimethylbenzene	* 9.30	J	0.15	1.00	ug/L
Q3109-02	MW1	Water	1,2,4-Trimethylbenzene	* 790	J	0.14	1.00	ug/L
Q3109-02	MW1	Water	sec-Butylbenzene	* 10.0	J	0.13	1.00	ug/L
Q3109-02	MW1	Water	p-Isopropyltoluene	* 5.10	J	0.13	1.00	ug/L
Q3109-02	MW1	Water	n-Butylbenzene	* 18.7	J	0.15	1.00	ug/L
Q3109-02	MW1	Water	Naphthalene	* 580	J	0.20	1.00	ug/L
			Total Tics :	3660				
			Total Concentration:	5300				

Hit Summary Sheet
SW-846

SDG No.: Q3109

Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW1DL							
Q3109-02DL	MW1DL	Water	Cyclohexane	280	D	29.0	100	ug/L
Q3109-02DL	MW1DL	Water	Methylcyclohexane	120	D	3.20	20.0	ug/L
Q3109-02DL	MW1DL	Water	Benzene	11.6	JD	3.00	20.0	ug/L
Q3109-02DL	MW1DL	Water	Toluene	5.00	JD	2.80	20.0	ug/L
Q3109-02DL	MW1DL	Water	Ethyl Benzene	1600	D	2.60	20.0	ug/L
Q3109-02DL	MW1DL	Water	m/p-Xylenes	74.1	D	4.80	40.0	ug/L
Q3109-02DL	MW1DL	Water	o-Xylene	13.8	JD	2.40	20.0	ug/L
Q3109-02DL	MW1DL	Water	Isopropylbenzene	79.2	D	2.40	20.0	ug/L
Total Voc :				2180				
Total Concentration:				2180				



QC SUMMARY

Surrogate Summary

SDG No.: **Q3109**

Client: **G Environmental**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3109-01	MW1D	1,2-Dichloroethane-d4	50	49.9	100		74	125
		Dibromofluoromethane	50	51.8	104		75	124
		Toluene-d8	50	47.1	94		86	113
		4-Bromofluorobenzene	50	47.5	95		77	121
Q3109-02	MW1	1,2-Dichloroethane-d4	50	45.3	91		74	125
		Dibromofluoromethane	50	48.2	96		75	124
		Toluene-d8	50	47.0	94		86	113
		4-Bromofluorobenzene	50	48.9	98		77	121
Q3109-02DL	MW1DL	1,2-Dichloroethane-d4	50	46.5	93		74	125
		Dibromofluoromethane	50	44.6	89		75	124
		Toluene-d8	50	46.6	93		86	113
		4-Bromofluorobenzene	50	51.5	103		77	121
VN0916WBL01	VN0916WBL01	1,2-Dichloroethane-d4	50	49.1	98		74	125
		Dibromofluoromethane	50	50.7	101		75	124
		Toluene-d8	50	47.1	94		86	113
		4-Bromofluorobenzene	50	45.7	91		77	121
VN0916WBS01	VN0916WBS01	1,2-Dichloroethane-d4	50	44.1	88		74	125
		Dibromofluoromethane	50	47.5	95		75	124
		Toluene-d8	50	45.0	90		86	113
		4-Bromofluorobenzene	50	46.8	94		77	121
VN0916WBSD0	VN0916WBSD01	1,2-Dichloroethane-d4	50	43.5	87		74	125
		Dibromofluoromethane	50	48.6	97		75	124
		Toluene-d8	50	45.6	91		86	113
		4-Bromofluorobenzene	50	46.4	93		77	121
VX0917WBL01	VX0917WBL01	1,2-Dichloroethane-d4	50	50.2	100		74	125
		Dibromofluoromethane	50	47.0	94		75	124
		Toluene-d8	50	47.4	95		86	113
		4-Bromofluorobenzene	50	52.9	106		77	121
VX0917WBS01	VX0917WBS01	1,2-Dichloroethane-d4	50	50.5	101		74	125
		Dibromofluoromethane	50	50.9	102		75	124
		Toluene-d8	50	51.5	103		86	113
		4-Bromofluorobenzene	50	51.4	103		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3109</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087850.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0916WBS01	Dichlorodifluoromethane	20	18.5	ug/L	93			69	116	
	Chloromethane	20	19.0	ug/L	95			65	116	
	Vinyl chloride	20	17.9	ug/L	90			65	117	
	Bromomethane	20	19.8	ug/L	99			58	125	
	Chloroethane	20	18.1	ug/L	91			56	128	
	Trichlorofluoromethane	20	19.4	ug/L	97			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			80	112	
	1,1-Dichloroethene	20	18.2	ug/L	91			74	110	
	Acetone	100	75.9	ug/L	76			60	125	
	Carbon disulfide	20	19.4	ug/L	97			64	112	
	Methyl tert-butyl Ether	20	18.0	ug/L	90			78	114	
	Methyl Acetate	20	19.6	ug/L	98			67	125	
	Methylene Chloride	20	19.2	ug/L	96			72	114	
	trans-1,2-Dichloroethene	20	18.3	ug/L	92			75	108	
	1,1-Dichloroethane	20	18.0	ug/L	90			78	112	
	Cyclohexane	20	17.7	ug/L	89			75	110	
	2-Butanone	100	87.0	ug/L	87			65	122	
	Carbon Tetrachloride	20	19.2	ug/L	96			77	113	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			77	110	
	Bromochloromethane	20	17.9	ug/L	90			70	124	
	Chloroform	20	18.9	ug/L	95			79	113	
	1,1,1-Trichloroethane	20	18.7	ug/L	94			80	108	
	Methylcyclohexane	20	17.4	ug/L	87			72	115	
	Benzene	20	19.1	ug/L	96			82	109	
	1,2-Dichloroethane	20	18.1	ug/L	91			80	115	
	Trichloroethene	20	18.9	ug/L	95			77	113	
	1,2-Dichloropropane	20	18.4	ug/L	92			83	111	
	Bromodichloromethane	20	19.1	ug/L	96			83	110	
	4-Methyl-2-Pentanone	100	92.8	ug/L	93			74	118	
	Toluene	20	18.6	ug/L	93			82	110	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			79	110	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			82	110	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			83	112	
	2-Hexanone	100	90.1	ug/L	90			73	117	
	Dibromochloromethane	20	18.9	ug/L	95			82	110	
	1,2-Dibromoethane	20	19.0	ug/L	95			81	110	
	Tetrachloroethene	20	19.2	ug/L	96			67	123	
	Chlorobenzene	20	19.2	ug/L	96			82	109	
	Ethyl Benzene	20	18.2	ug/L	91			83	109	
	m/p-Xylenes	40	37.6	ug/L	94			82	110	
	o-Xylene	20	18.8	ug/L	94			83	109	
	Styrene	20	18.8	ug/L	94			80	111	
	Bromoform	20	21.0	ug/L	105			79	109	
	Isopropylbenzene	20	16.7	ug/L	84			83	112	
	1,1,2,2-Tetrachloroethane	20	17.5	ug/L	88			76	118	
	1,3-Dichlorobenzene	20	18.0	ug/L	90			82	108	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			82	107	
	1,2-Dichlorobenzene	20	17.9	ug/L	90			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3109

Analytical Method: SW8260-Low

Client: G Environmental

Datafile : VN087850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0916WBS01	1,2-Dibromo-3-Chloropropane	20	16.4	ug/L	82			68	112	
	1,2,4-Trichlorobenzene	20	18.0	ug/L	90			75	113	
	1,2,3-Trichlorobenzene	20	17.8	ug/L	89			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3109</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087851.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0916WBSD01	Dichlorodifluoromethane	20	19.0	ug/L	95	2		69	116	19
	Chloromethane	20	18.4	ug/L	92	3		65	116	21
	Vinyl chloride	20	18.4	ug/L	92	2		65	117	19
	Bromomethane	20	19.5	ug/L	98	1		58	125	20
	Chloroethane	20	16.9	ug/L	85	7		56	128	20
	Trichlorofluoromethane	20	19.7	ug/L	99	2		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93	1		80	112	15
	1,1-Dichloroethene	20	17.6	ug/L	88	3		74	110	20
	Acetone	100	71.9	ug/L	72	5		60	125	20
	Carbon disulfide	20	18.7	ug/L	94	3		64	112	20
	Methyl tert-butyl Ether	20	17.0	ug/L	85	6		78	114	20
	Methyl Acetate	20	18.6	ug/L	93	5		67	125	20
	Methylene Chloride	20	18.4	ug/L	92	4		72	114	20
	trans-1,2-Dichloroethene	20	17.6	ug/L	88	4		75	108	16
	1,1-Dichloroethane	20	17.5	ug/L	88	2		78	112	20
	Cyclohexane	20	18.1	ug/L	91	2		75	110	20
	2-Butanone	100	84.2	ug/L	84	4		65	122	26
	Carbon Tetrachloride	20	19.7	ug/L	99	3		77	113	15
	cis-1,2-Dichloroethene	20	18.2	ug/L	91	6		77	110	20
	Bromochloromethane	20	17.4	ug/L	87	3		70	124	20
	Chloroform	20	18.0	ug/L	90	5		79	113	20
	1,1,1-Trichloroethane	20	18.1	ug/L	91	3		80	108	20
	Methylcyclohexane	20	18.5	ug/L	93	7		72	115	20
	Benzene	20	18.9	ug/L	95	1		82	109	15
	1,2-Dichloroethane	20	18.0	ug/L	90	1		80	115	20
	Trichloroethene	20	19.8	ug/L	99	4		77	113	15
	1,2-Dichloropropane	20	18.4	ug/L	92	0		83	111	16
	Bromodichloromethane	20	19.2	ug/L	96	0		83	110	16
	4-Methyl-2-Pentanone	100	92.1	ug/L	92	1		74	118	25
	Toluene	20	18.7	ug/L	94	1		82	110	16
	t-1,3-Dichloropropene	20	18.3	ug/L	92	2		79	110	20
	cis-1,3-Dichloropropene	20	17.9	ug/L	90	4		82	110	16
	1,1,2-Trichloroethane	20	20.1	ug/L	101	4		83	112	20
	2-Hexanone	100	89.5	ug/L	90	0		73	117	25
	Dibromochloromethane	20	19.1	ug/L	96	1		82	110	20
	1,2-Dibromoethane	20	18.6	ug/L	93	2		81	110	20
	Tetrachloroethene	20	19.7	ug/L	99	3		67	123	15
	Chlorobenzene	20	19.0	ug/L	95	1		82	109	15
	Ethyl Benzene	20	18.7	ug/L	94	3		83	109	16
	m/p-Xylenes	40	39.2	ug/L	98	4		82	110	15
	o-Xylene	20	19.5	ug/L	98	4		83	109	20
	Styrene	20	19.0	ug/L	95	1		80	111	17
	Bromoform	20	21.1	ug/L	106	1		79	109	20
	Isopropylbenzene	20	17.4	ug/L	87	4		83	112	29
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93	6		76	118	20
	1,3-Dichlorobenzene	20	18.8	ug/L	94	4		82	108	20
	1,4-Dichlorobenzene	20	18.2	ug/L	91	0		82	107	15
	1,2-Dichlorobenzene	20	19.3	ug/L	97	7		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3109

Analytical Method: SW8260-Low

Client: G Environmental

Datafile : VN087851.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0916WBSD01	1,2-Dibromo-3-Chloropropane	20	16.9	ug/L	85	4		68	112	20
	1,2,4-Trichlorobenzene	20	19.0	ug/L	95	5		75	113	29
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93	4		76	114	29

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3109	Analytical Method:	SW8260-Low
Client:	G Environmental	Datafile :	VX047604.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0917WBS01	Dichlorodifluoromethane	20	15.9	ug/L	79			69	116	
	Chloromethane	20	16.0	ug/L	80			65	116	
	Vinyl chloride	20	16.9	ug/L	85			65	117	
	Bromomethane	20	18.1	ug/L	91			58	125	
	Chloroethane	20	17.2	ug/L	86			56	128	
	Trichlorofluoromethane	20	17.1	ug/L	86			73	115	
	1,1,2-Trichlorotrifluoroethane	20	17.6	ug/L	88			80	112	
	1,1-Dichloroethene	20	17.1	ug/L	86			74	110	
	Acetone	100	73.8	ug/L	74			60	125	
	Carbon disulfide	20	16.0	ug/L	80			64	112	
	Methyl tert-butyl Ether	20	17.5	ug/L	88			78	114	
	Methyl Acetate	20	19.2	ug/L	96			67	125	
	Methylene Chloride	20	16.9	ug/L	85			72	114	
	trans-1,2-Dichloroethene	20	17.0	ug/L	85			75	108	
	1,1-Dichloroethane	20	17.6	ug/L	88			78	112	
	Cyclohexane	20	17.4	ug/L	87			75	110	
	2-Butanone	100	84.0	ug/L	84			65	122	
	Carbon Tetrachloride	20	17.0	ug/L	85			77	113	
	cis-1,2-Dichloroethene	20	17.6	ug/L	88			77	110	
	Bromochloromethane	20	21.6	ug/L	108			70	124	
	Chloroform	20	18.0	ug/L	90			79	113	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			80	108	
	Methylcyclohexane	20	17.2	ug/L	86			72	115	
	Benzene	20	17.3	ug/L	86			82	109	
	1,2-Dichloroethane	20	17.5	ug/L	88			80	115	
	Trichloroethene	20	17.3	ug/L	86			77	113	
	1,2-Dichloropropane	20	17.5	ug/L	88			83	111	
	Bromodichloromethane	20	17.5	ug/L	88			83	110	
	4-Methyl-2-Pentanone	100	88.0	ug/L	88			74	118	
	Toluene	20	17.5	ug/L	88			82	110	
	t-1,3-Dichloropropene	20	17.3	ug/L	86			79	110	
	cis-1,3-Dichloropropene	20	17.7	ug/L	89			82	110	
	1,1,2-Trichloroethane	20	17.4	ug/L	87			83	112	
	2-Hexanone	100	85.8	ug/L	86			73	117	
	Dibromochloromethane	20	17.4	ug/L	87			82	110	
	1,2-Dibromoethane	20	17.7	ug/L	89			81	110	
	Tetrachloroethene	20	17.1	ug/L	86			67	123	
	Chlorobenzene	20	17.5	ug/L	88			82	109	
	Ethyl Benzene	20	17.7	ug/L	89			83	109	
	m/p-Xylenes	40	35.8	ug/L	90			82	110	
	o-Xylene	20	18.0	ug/L	90			83	109	
	Styrene	20	17.9	ug/L	90			80	111	
	Bromoform	20	17.6	ug/L	88			79	109	
	Isopropylbenzene	20	17.7	ug/L	89			83	112	
	1,1,2,2-Tetrachloroethane	20	17.5	ug/L	88			76	118	
	1,3-Dichlorobenzene	20	17.7	ug/L	89			82	108	
	1,4-Dichlorobenzene	20	17.4	ug/L	87			82	107	
	1,2-Dichlorobenzene	20	17.7	ug/L	89			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3109</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VX047604.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0917WBS01	1,2-Dibromo-3-Chloropropane	20	16.1	ug/L	81			68	112	
	1,2,4-Trichlorobenzene	20	17.4	ug/L	87			75	113	
	1,2,3-Trichlorobenzene	20	17.5	ug/L	88			76	114	

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0916WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3109

Lab File ID: VN087849.D

Lab Sample ID: VN0916WBL01

Date Analyzed: 09/16/2025

Time Analyzed: 15:04

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
VN0916WBS01	VN0916WBS01	VN087850.D	09/16/2025
VN0916WBSD01	VN0916WBSD01	VN087851.D	09/16/2025
MW1D	Q3109-01	VN087854.D	09/16/2025
MW1	Q3109-02	VN087855.D	09/16/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0917WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3109

Lab File ID: VX047603.D

Lab Sample ID: VX0917WBL01

Date Analyzed: 09/17/2025

Time Analyzed: 09:41

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0917WBS01	VX0917WBS01	VX047604.D	09/17/2025
MW1DL	Q3109-02DL	VX047606.D	09/17/2025

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3109

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



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3109

Lab File ID: VN087846.D

BFB Injection Date: 09/16/2025

Instrument ID: MSVOA_N

BFB Injection Time: 11:25

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	22.6
75	30.0 - 60.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.2
175	5.0 - 9.0% of mass 174	4.5 (6.2) 1
176	95.0 - 101.0% of mass 174	70.1 (97.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087847.D	09/16/2025	13:55
VN0916WBL01	VN0916WBL01	VN087849.D	09/16/2025	15:04
VN0916WBS01	VN0916WBS01	VN087850.D	09/16/2025	15:25
VN0916WBSD01	VN0916WBSD01	VN087851.D	09/16/2025	15:46
MW1D	Q3109-01	VN087854.D	09/16/2025	16:50
MW1	Q3109-02	VN087855.D	09/16/2025	17:11



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3109

Lab File ID: VX047584.D

BFB Injection Date: 09/16/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:56

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	66.3 (98.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX047585.D	09/16/2025	09:23
VSTDIC005	VSTDIC005	VX047586.D	09/16/2025	10:16
VSTDIC020	VSTDIC020	VX047587.D	09/16/2025	10:37
VSTDIC050	VSTDIC050	VX047588.D	09/16/2025	10:58
VSTDIC100	VSTDIC100	VX047589.D	09/16/2025	11:40
VSTDIC150	VSTDIC150	VX047590.D	09/16/2025	12:01



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3109

Lab File ID: VX047600.D

BFB Injection Date: 09/17/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:19

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	52.7
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	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	69.2
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	66.2 (95.7) 1
177	5.0 - 9.0% of mass 176	4.2 (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	VX047601.D	09/17/2025	08:51
VX0917WBL01	VX0917WBL01	VX047603.D	09/17/2025	09:41
VX0917WBS01	VX0917WBS01	VX047604.D	09/17/2025	10:09
MW1DL	Q3109-02DL	VX047606.D	09/17/2025	10:57

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG NO.: Q3109
Lab File ID: VN087847.D Date Analyzed: 09/16/2025
Instrument ID: MSVOA_N Time Analyzed: 13:55
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	239136	8.21	433645	9.08	409197	11.85
UPPER LIMIT	478272	8.706	867290	9.583	818394	12.347
LOWER LIMIT	119568	7.706	216823	8.583	204599	11.347
EPA SAMPLE NO.						
MW1D	186859	8.21	417903	9.08	408304	11.85
MW1	207001	8.21	471522	9.08	448961	11.84
VN0916WBL01	184438	8.21	413572	9.08	397360	11.85
VN0916WBS01	212441	8.21	416535	9.08	384629	11.85
VN0916WBSD01	229272	8.21	433869	9.08	392898	11.85

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3109</u>
Lab File ID:	<u>VN087847.D</u>	Date Analyzed:	<u>09/16/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>13:55</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	226483	13.77				
UPPER LIMIT	452966	14.27				
LOWER LIMIT	113242	13.27				
EPA SAMPLE NO.						
MW1D	185626	13.77				
MW1	231412	13.77				
VN0916WBL01	180365	13.77				
VN0916WBS01	210239	13.77				
VN0916WBSD01	209579	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.: Q3109
 Lab File ID: VX047601.D Date Analyzed: 09/17/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:51
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	203321	5.53	347822	6.74	296232	10.04
UPPER LIMIT	406642	6.032	695644	7.239	592464	10.537
LOWER LIMIT	101661	5.032	173911	6.239	148116	9.537
EPA SAMPLE NO.						
MW1DL	157331	5.54	316909	6.75	305419	10.04
VX0917WBL01	235094	5.54	478397	6.75	460978	10.04
VX0917WBS01	195658	5.54	351376	6.74	311445	10.04

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q3109
 Lab File ID: VX047601.D Date Analyzed: 09/17/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:51
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	138326	12.00€				
UPPER LIMIT	276652	12.50€				
LOWER LIMIT	69163	11.50€				
EPA SAMPLE NO.						
MW1DL	148891	12.01				
VX0917WBL01	224854	12.01				
VX0917WBS01	151595	12.01				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	G Environmental		Date Collected:	09/16/25	
Project:	Metuchen		Date Received:	09/16/25	
Client Sample ID:	MW1D		SDG No.:	Q3109	
Lab Sample ID:	Q3109-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087854.D	1	09/16/25 16:50	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.71	J	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	09/16/25
Project:	Metuchen	Date Received:	09/16/25
Client Sample ID:	MW1D	SDG No.:	Q3109
Lab Sample ID:	Q3109-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOCMS Group1

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087854.D	1	09/16/25 16:50	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	47.1		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	8.206			
540-36-3	1,4-Difluorobenzene	418000	9.082			
3114-55-4	Chlorobenzene-d5	408000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	186000	13.77			

Report of Analysis

Client:	G Environmental	Date Collected:	09/16/25
Project:	Metuchen	Date Received:	09/16/25
Client Sample ID:	MW1D	SDG No.:	Q3109
Lab Sample ID:	Q3109-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOCMS Group1

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087854.D	1	09/16/25 16:50	VN091625

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\VN091625\
 Data File : VN087854.D
 Acq On : 16 Sep 2025 16:50
 Operator : JC\MD
 Sample : Q3109-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1D

Quant Time: Sep 17 01:23:58 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)

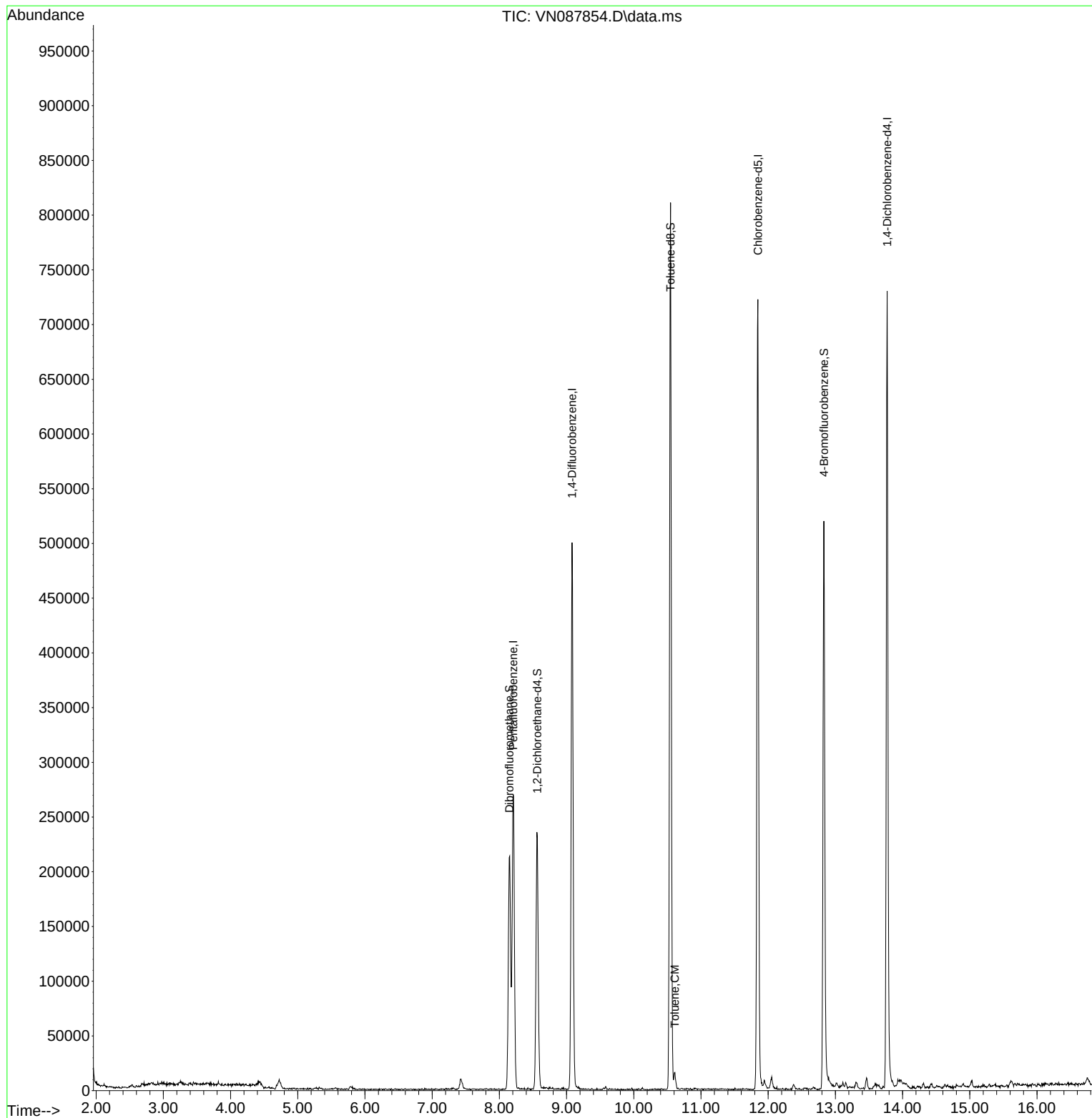
Internal Standards						
1) Pentafluorobenzene	8.206	168	186859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	417903	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	408304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	185626	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	191050	49.902	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.800%
35) Dibromofluoromethane	8.147	113	156166	51.758	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.520%
50) Toluene-d8	10.547	98	531551	47.069	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.140%
62) 4-Bromofluorobenzene	12.829	95	190599	47.458	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.920%
Target Compounds						
52) Toluene	10.612	92	6221	0.707	ug/l	Qvalue 91

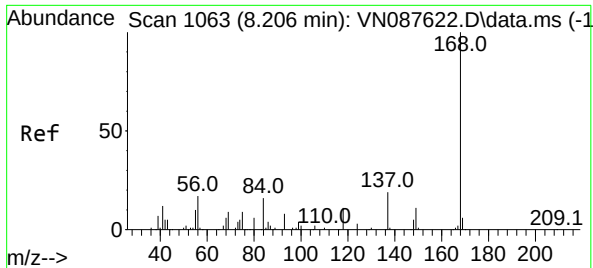
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087854.D
Acq On : 16 Sep 2025 16:50
Operator : JC\MD
Sample : Q3109-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1D

Quant Time: Sep 17 01:23:58 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

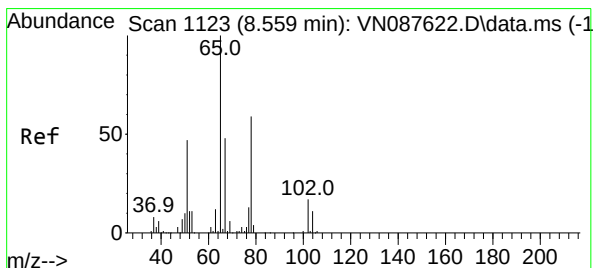
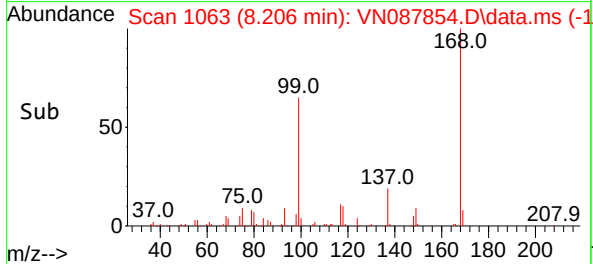
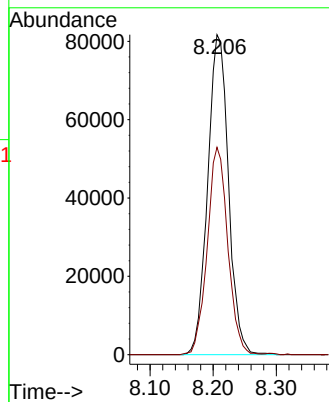
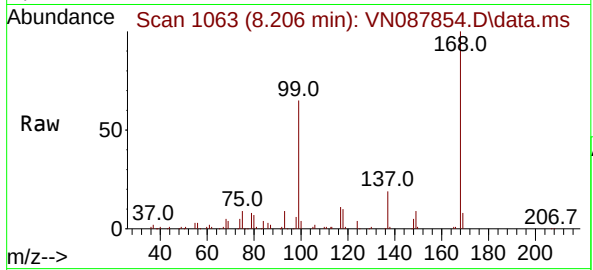




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

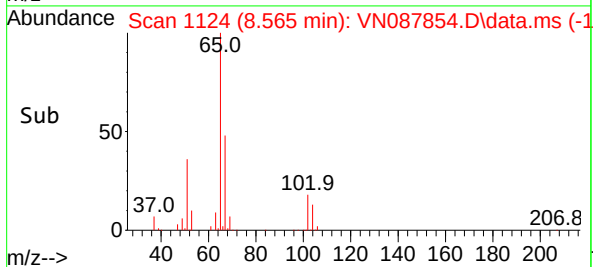
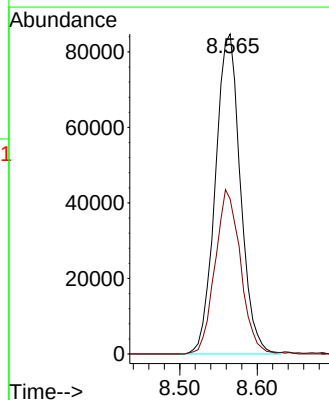
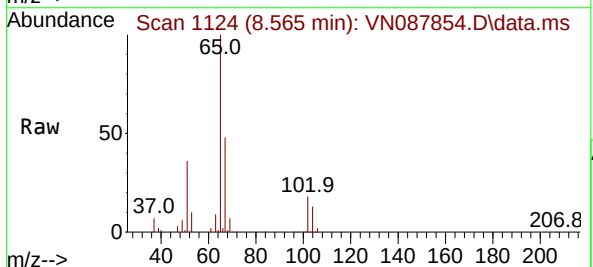
Instrument :
MSVOA_N
ClientSampleId :
MW1D

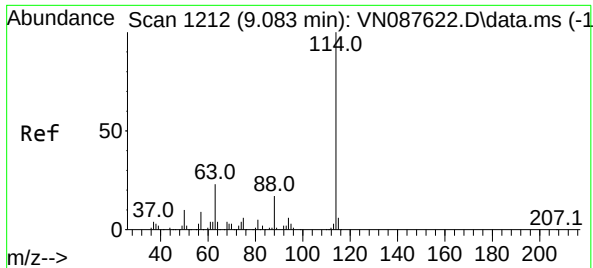
Tgt Ion:168 Resp: 186859
Ion Ratio Lower Upper
168 100
99 64.8 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 49.902 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 65 Resp: 191050
Ion Ratio Lower Upper
65 100
67 52.2 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: VN087854.D

Acq: 16 Sep 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

MW1D

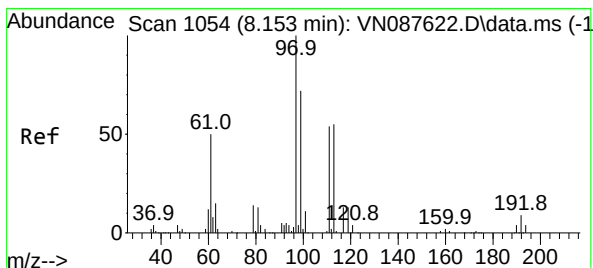
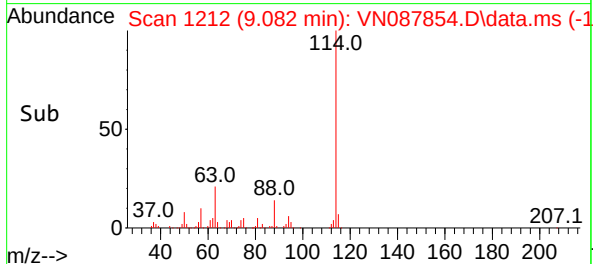
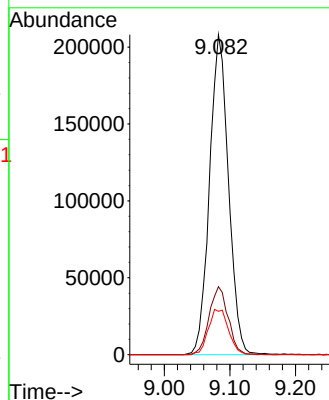
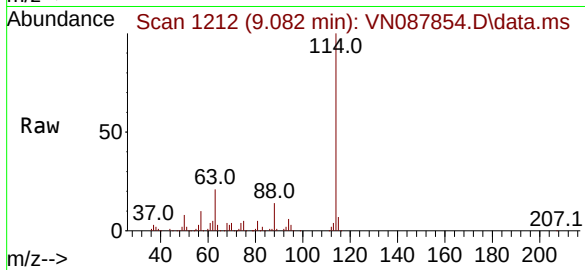
Tgt Ion:114 Resp: 417903

Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.2

88 13.6 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.758 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087854.D

Acq: 16 Sep 2025 16:50

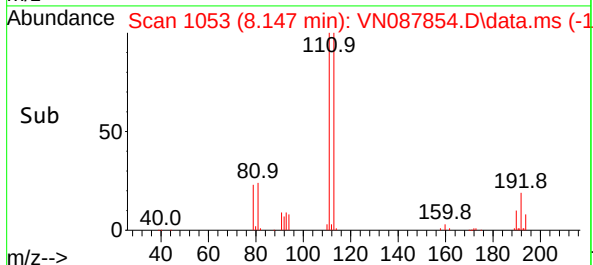
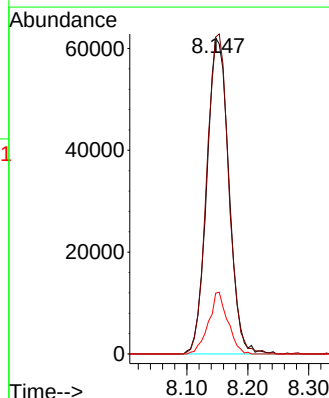
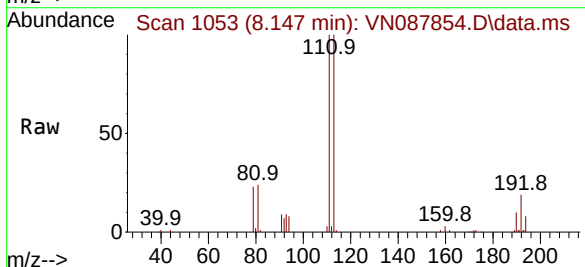
Tgt Ion:113 Resp: 156166

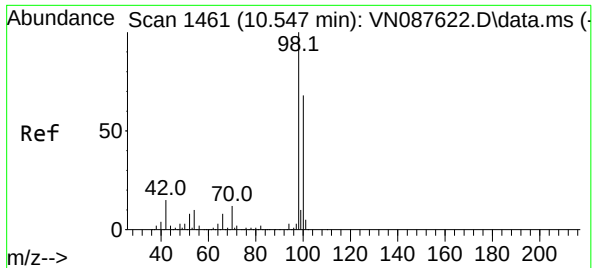
Ion Ratio Lower Upper

113 100

111 100.6 82.8 124.2

192 17.1 12.8 19.2

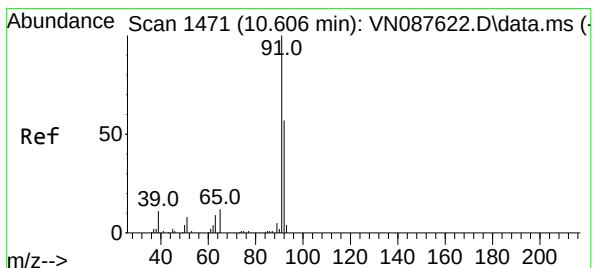
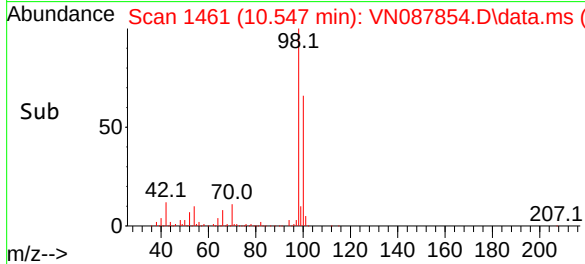
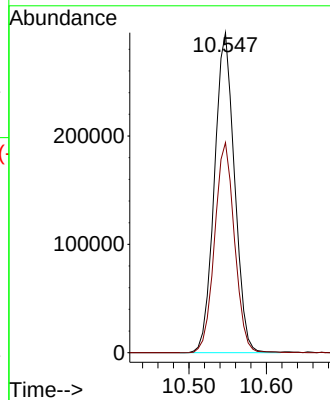
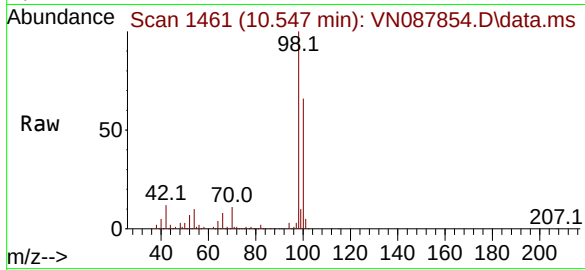




#50
Toluene-d8
Concen: 47.069 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

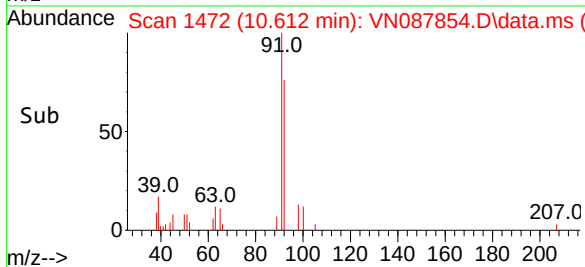
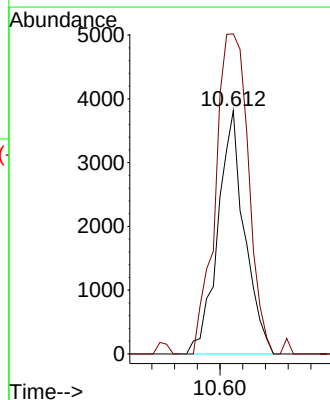
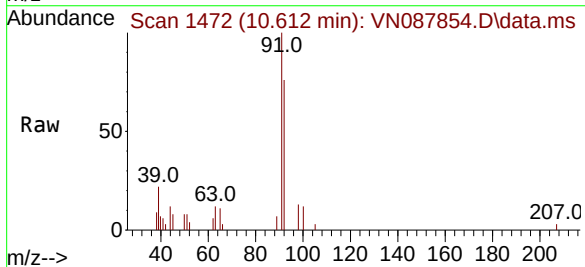
Instrument :
MSVOA_N
ClientSampleId :
MW1D

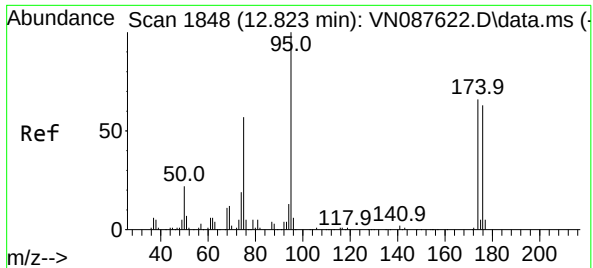
Tgt Ion: 98 Resp: 531551
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2



#52
Toluene
Concen: 0.707 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 92 Resp: 6221
Ion Ratio Lower Upper
92 100
91 162.6 140.4 210.6

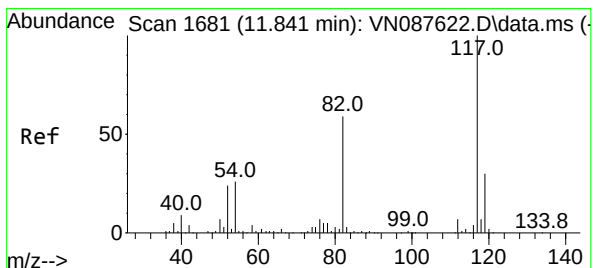
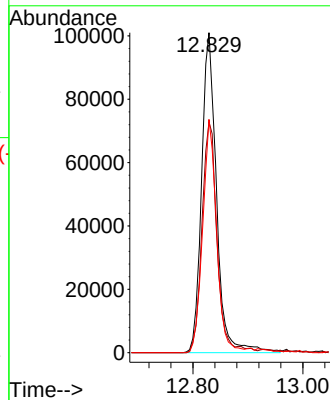
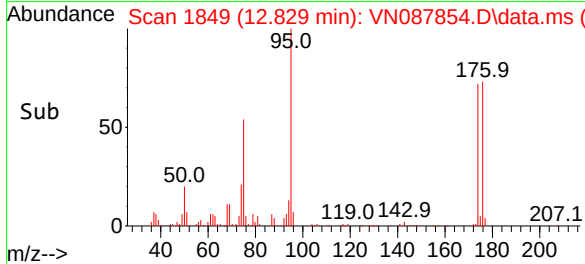
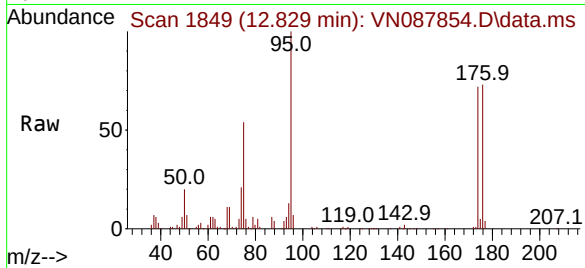




#62
4-Bromofluorobenzene
Concen: 47.458 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

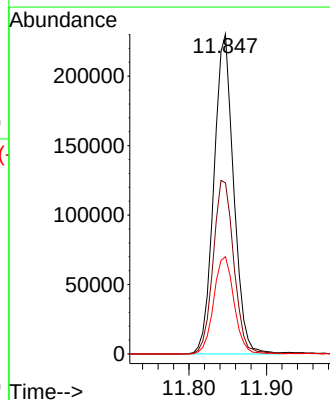
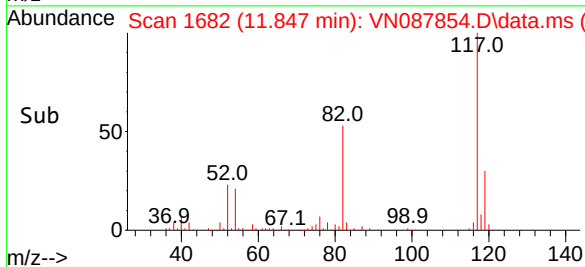
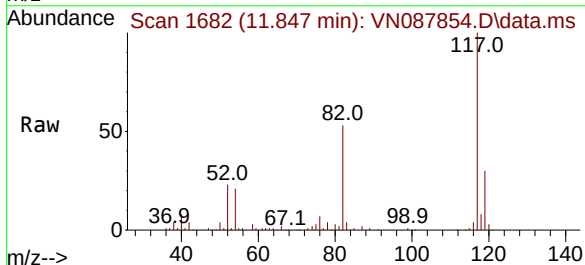
Instrument :
MSVOA_N
ClientSampleId :
MW1D

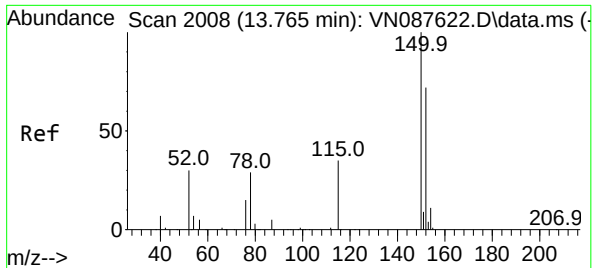
Tgt Ion: 95 Resp: 190599
Ion Ratio Lower Upper
95 100
174 72.6 0.0 138.4
176 68.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087854.D
Acq: 16 Sep 2025 16:50

Tgt Ion: 117 Resp: 408304
Ion Ratio Lower Upper
117 100
82 53.5 47.4 71.2
119 30.4 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.006 min

Lab File: VN087854.D

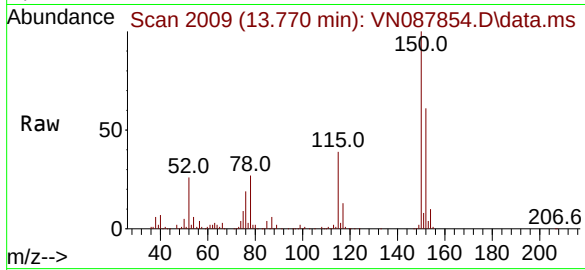
Acq: 16 Sep 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

MW1D



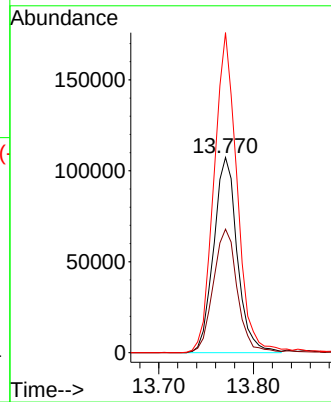
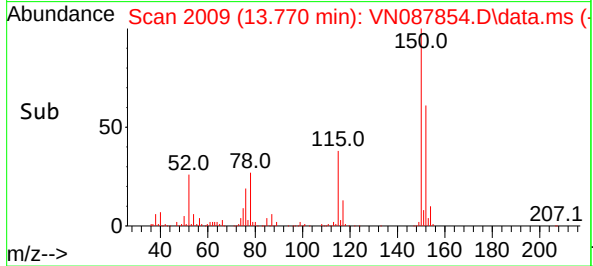
Tgt Ion:152 Resp: 185626

Ion Ratio Lower Upper

152 100

115 64.5 32.3 96.8

150 162.3 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087854.D
 Acq On : 16 Sep 2025 16:50
 Operator : JC\MD
 Sample : Q3109-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1D

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: VN087854.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.724	465	471	480	rVB4	8260	22060	1.51%	0.281%
2	7.430	919	931	946	rBV	9691	29019	1.99%	0.370%
3	8.153	1042	1054	1058	rBV	213084	518174	35.56%	6.603%
4	8.206	1058	1063	1075	rVB2	268860	617390	42.37%	7.867%
5	8.559	1114	1123	1134	rBV	234841	537980	36.92%	6.855%
6	9.082	1201	1212	1223	rBV2	499941	1028963	70.61%	13.112%
7	10.547	1451	1461	1468	rBV	810190	1457242	100.00%	18.569%
8	10.612	1468	1472	1478	rVB2	15115	28276	1.94%	0.360%
9	11.847	1673	1682	1693	rBV	721319	1308783	89.81%	16.677%
10	12.053	1710	1717	1721	rBV4	10118	18102	1.24%	0.231%
11	12.829	1841	1849	1867	rBV	518939	975511	66.94%	12.431%
12	13.306	1926	1930	1942	rVB5	6308	14849	1.02%	0.189%
13	13.465	1951	1957	1964	rBV3	10599	20148	1.38%	0.257%
14	13.770	2002	2009	2027	rBV	727942	1271150	87.23%	16.198%

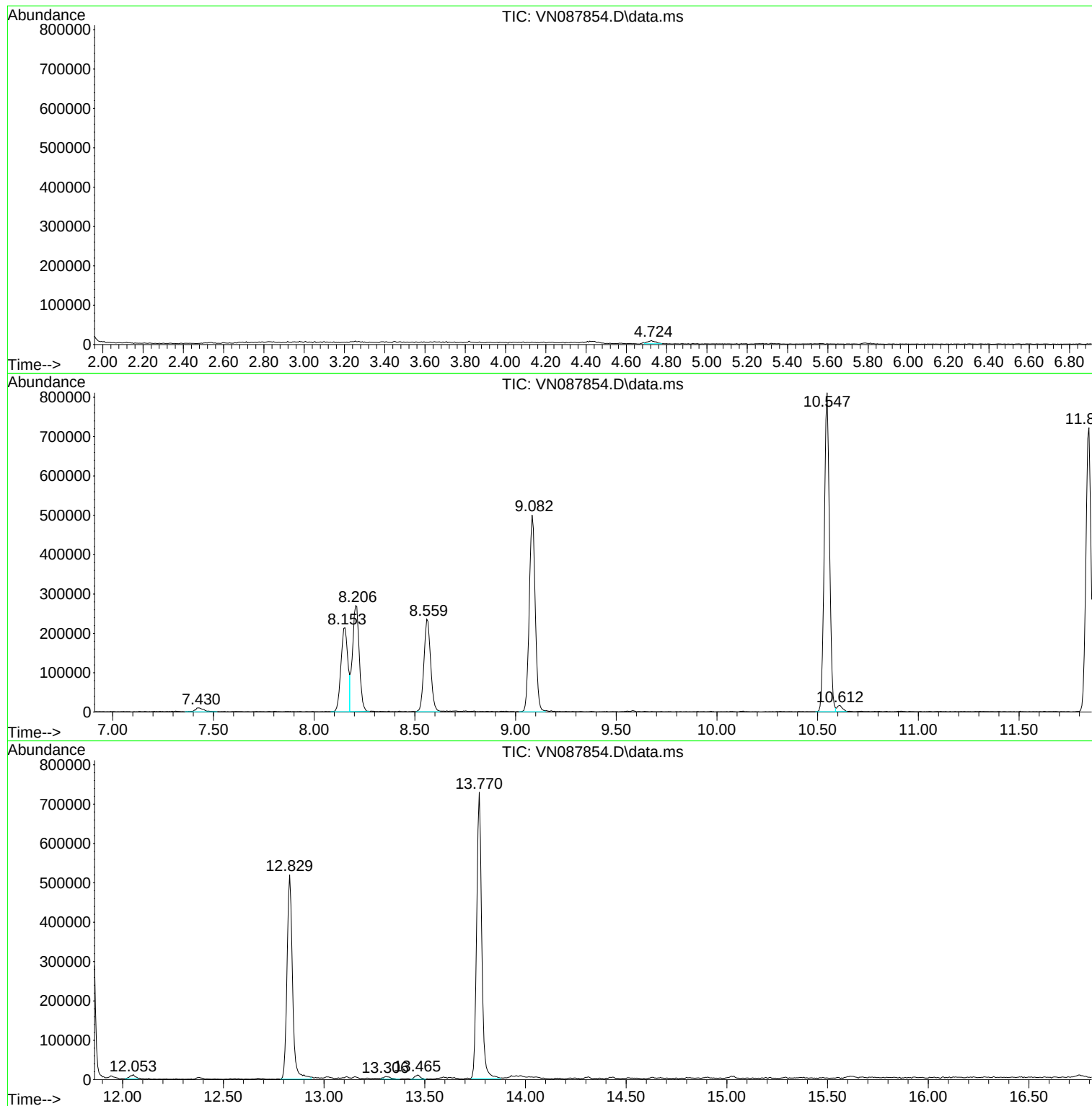
Sum of corrected areas: 7847647

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087854.D
Acq On : 16 Sep 2025 16:50
Operator : JC\MD
Sample : Q3109-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1D

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\VN091625\
Data File : VN087854.D
Acq On : 16 Sep 2025 16:50
Operator : JC\MD
Sample : Q3109-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1D

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\VN091625\
Data File : VN087854.D
Acq On : 16 Sep 2025 16:50
Operator : JC\MD
Sample : Q3109-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1D

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:	09/16/25
Project:	Metuchen	Date Received:	09/16/25
Client Sample ID:	MW1	SDG No.:	Q3109
Lab Sample ID:	Q3109-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087855.D	1	09/16/25 17:11	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	250	E	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	110		0.16	1.00	ug/L
71-43-2	Benzene	8.70		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	3.80		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental			Date Collected:	09/16/25	
Project:	Metuchen			Date Received:	09/16/25	
Client Sample ID:	MW1			SDG No.:	Q3109	
Lab Sample ID:	Q3109-02			Matrix:	Water	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087855.D	1	09/16/25 17:11	VN091625

[illegible]

Report of Analysis

Client:	G Environmental	Date Collected:	09/16/25
Project:	Metuchen	Date Received:	09/16/25
Client Sample ID:	MW1	SDG No.:	Q3109
Lab Sample ID:	Q3109-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087855.D	1	09/16/25 17:11	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000107-83-5	Pentane, 2-methyl-	60.6	J		5.33	ug/L
000096-37-7	Cyclopentane, methyl-	72.0	J		7.31	ug/L
103-65-1	n-propylbenzene	220	J		13.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	9.30	J		13.2	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	90.2	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	790	J		13.5	ug/L
135-98-8	sec-Butylbenzene	10.0	J		13.6	ug/L
99-87-6	p-Isopropyltoluene	5.10	J		13.7	ug/L
000105-05-5	Benzene, 1,4-diethyl-	61.5	J		13.9	ug/L
000496-11-7	Indane	480	J		14.0	ug/L
104-51-8	n-Butylbenzene	18.7	J		14.0	ug/L
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	100	J		14.2	ug/L
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	170	J		14.3	ug/L
000767-58-8	Indan, 1-methyl-	140	J		14.4	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	110	J		14.6	ug/L
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	130	J		14.7	ug/L
003454-07-7	Benzene, 1-ethenyl-4-ethyl-	130	J		14.9	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	290	J		15.0	ug/L
000769-57-3	Benzene, (1,2-dimethyl-1-propenyl)	57.5	J		15.3	ug/L
91-20-3	Naphthalene	580	J		15.6	ug/L
000091-57-6	Naphthalene, 2-methyl-	140	J		16.7	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087855.D
 Acq On : 16 Sep 2025 17:11
 Operator : JC\MD
 Sample : Q3109-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025
 Supervised By :Mahesh Dadoda 09/19/2025

Quant Time: Sep 17 01:24:22 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	8.212	168	207001	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	471522	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	448961	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	231412	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	192234	45.325	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.660%		
35) Dibromofluoromethane	8.153	113	164014	48.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.360%		
50) Toluene-d8	10.547	98	598470	46.968	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.940%		
62) 4-Bromofluorobenzene	12.829	95	221635	48.910	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.820%		
Target Compounds					Qvalue	
31) Cyclohexane	8.241	56	1315630	246.620	ug/l	91
39) Methylcyclohexane	9.582	83	646552	112.444	ug/l	95
40) Benzene	8.588	78	138853	8.668	ug/l	94
52) Toluene	10.612	92	37801	3.806	ug/l	98
67) Ethyl Benzene	11.935	91	20587447	1064.553	ug/l #	49
68) m/p-Xylenes	12.053	106	505131	71.221	ug/l	98
69) o-Xylene	12.376	106	81311	11.698	ug/l	96
73) Isopropylbenzene	12.670	105	1402638	75.009	ug/l	100
78) n-propylbenzene	13.012	91	5127514	222.613	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	147731m	9.313	ug/l	
84) 1,2,4-Trimethylbenzene	13.459	105	12558281	790.823	ug/l	97
85) sec-Butylbenzene	13.594	105	195343m	9.958	ug/l	
86) p-Isopropyltoluene	13.706	119	83334	5.144	ug/l #	75
89) n-Butylbenzene	14.035	91	300086	18.653	ug/l #	81
95) Naphthalene	15.611	128	10096091	576.249	ug/l	100

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

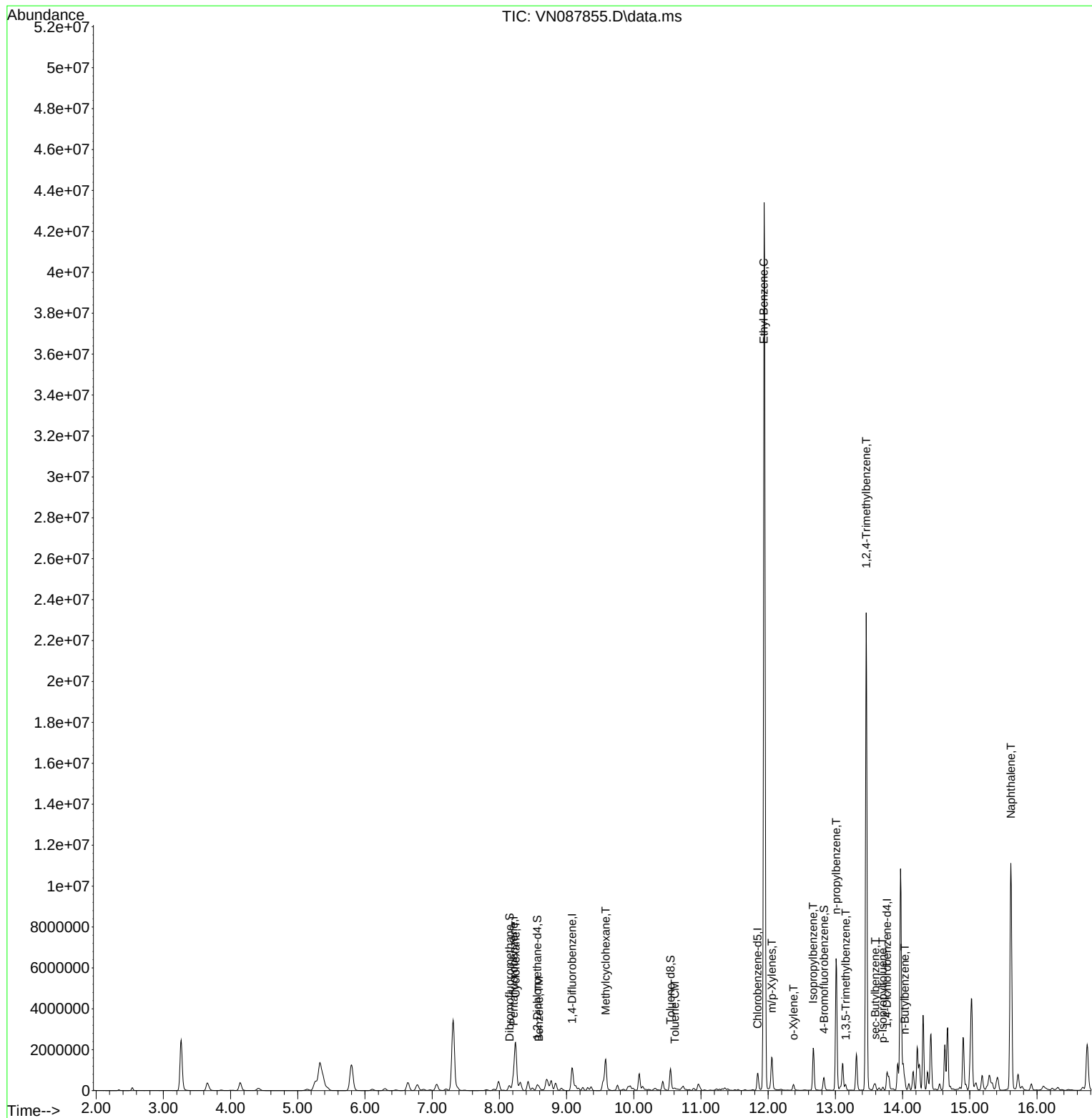
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

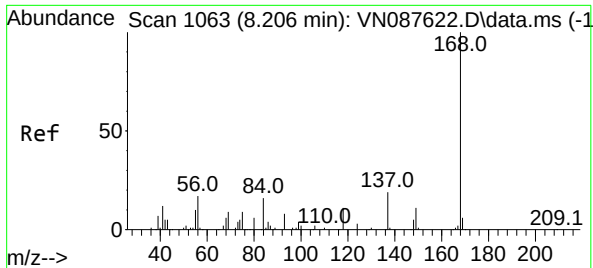
Instrument :
MSVOA_N
ClientSampleId :
MW1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025

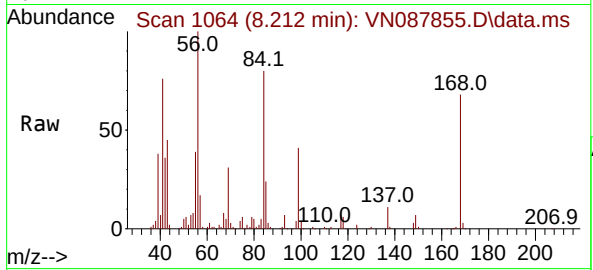
Quant Time: Sep 17 01:24:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

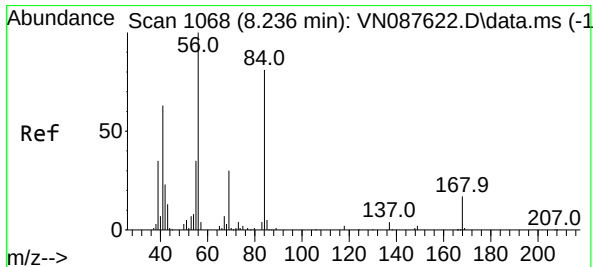
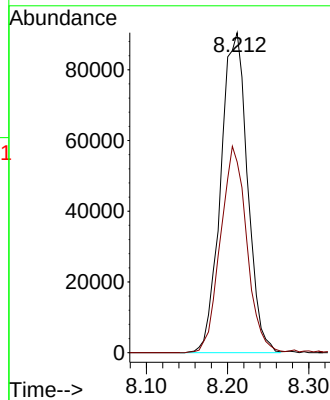
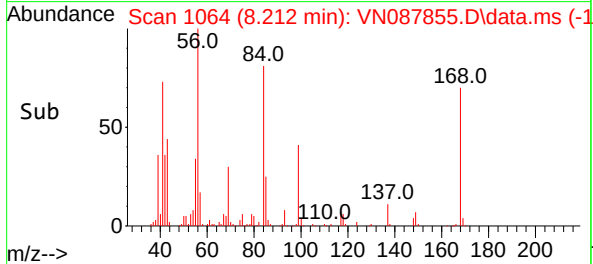
Instrument :
MSVOA_N
ClientSampleId :
MW1



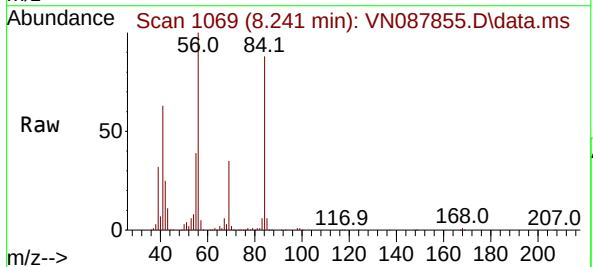
Tgt Ion: 168 Resp: 20700
Ion Ratio Lower Upper
168 100
99 59.6 57.2 85.8

Manual Integrations
APPROVED

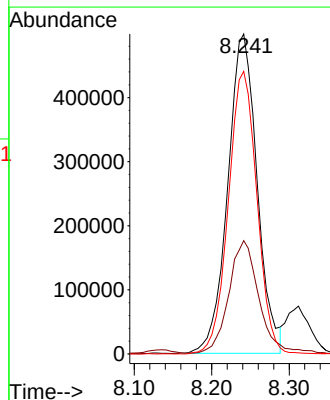
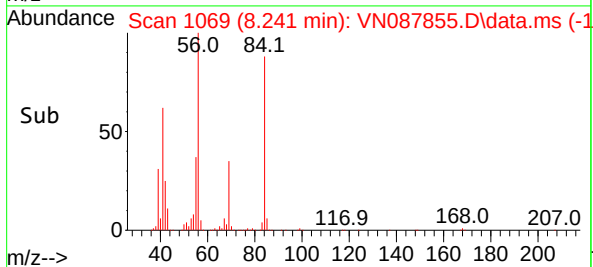
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025

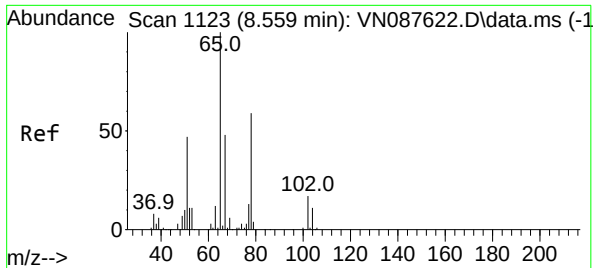


#31
Cyclohexane
Concen: 246.620 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11



Tgt Ion: 56 Resp: 1315630
Ion Ratio Lower Upper
56 100
69 35.0 23.7 35.5
84 88.4 64.7 97.1





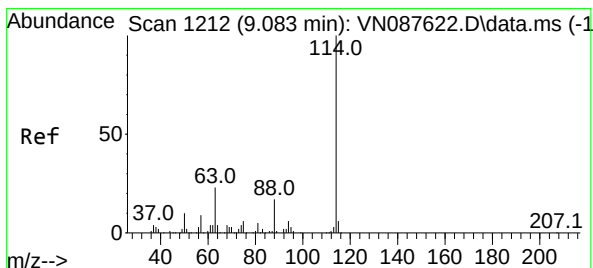
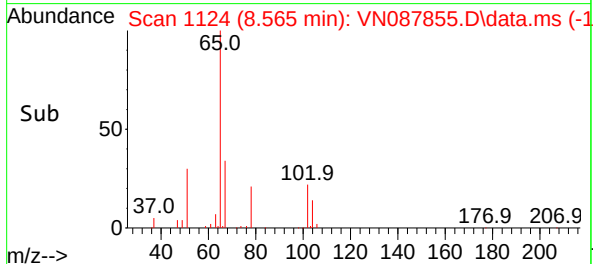
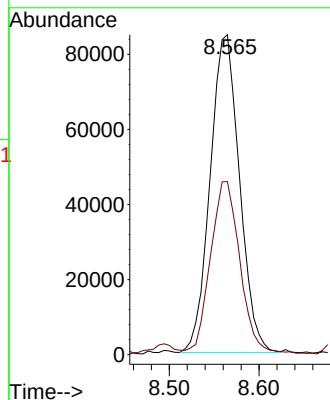
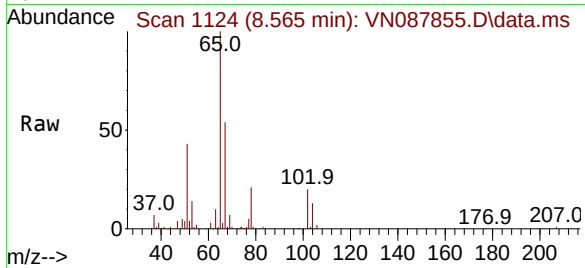
#33
1,2-Dichloroethane-d4
Concen: 45.325 ug/l
RT: 8.565 min Scan# 1123
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
MW1

Tgt Ion: 65 Resp: 192234
Ion Ratio Lower Upper
65 100
67 54.0 0.0 100.0

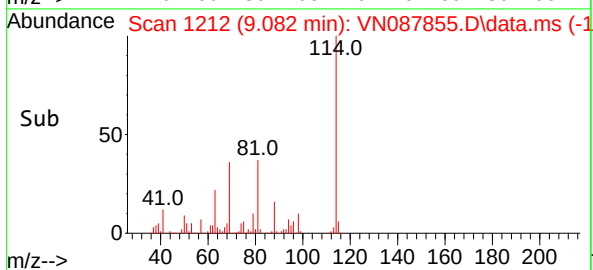
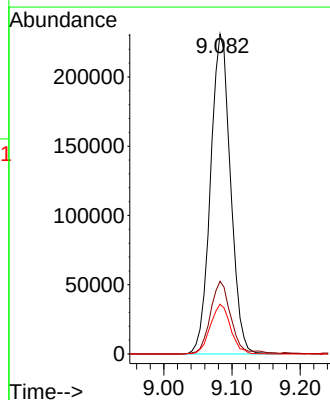
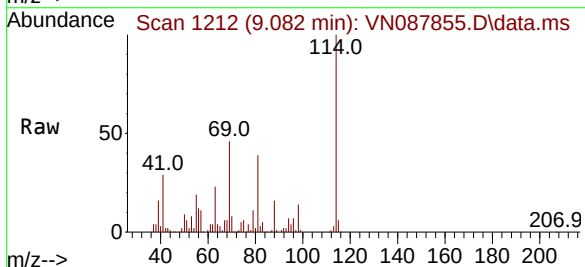
Manual Integrations
APPROVED

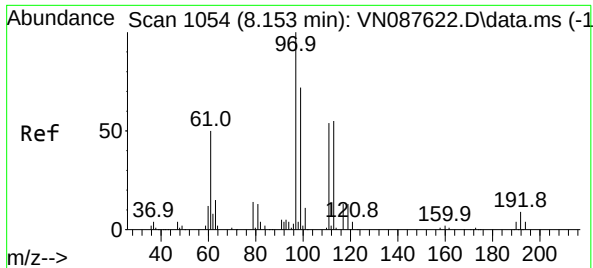
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

Tgt Ion:114 Resp: 471522
Ion Ratio Lower Upper
114 100
63 22.7 0.0 45.2
88 15.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 48.177 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087855.D

Acq: 16 Sep 2025 17:11

Instrument :

MSVOA_N

ClientSampleId :

MW1

Tgt Ion:113 Resp: 164014

Ion Ratio Lower Upper

113 100

111 101.6 82.8 124.2

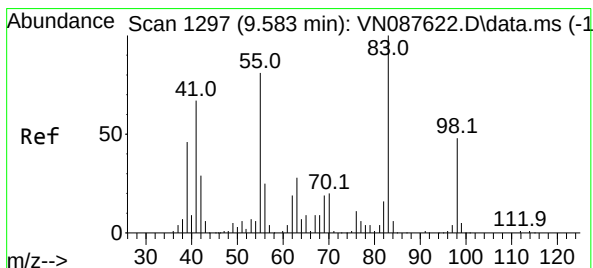
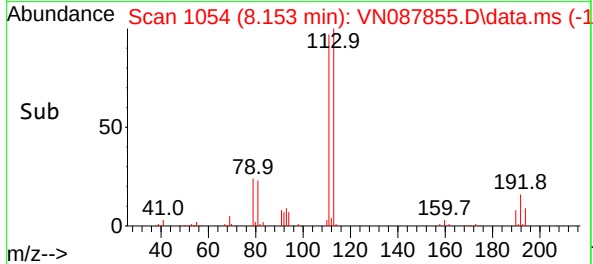
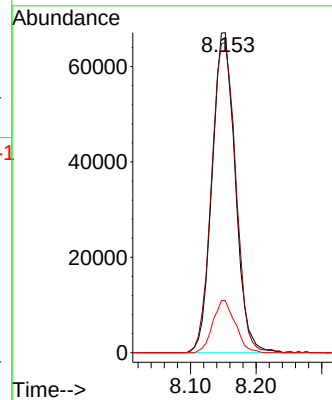
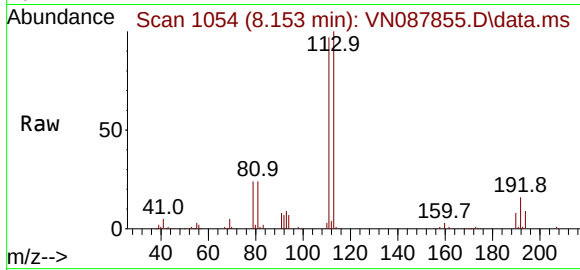
192 15.9 12.8 19.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025

Supervised By :Mahesh Dadoda 09/19/2025



#39

Methylcyclohexane

Concen: 112.444 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. -0.000 min

Lab File: VN087855.D

Acq: 16 Sep 2025 17:11

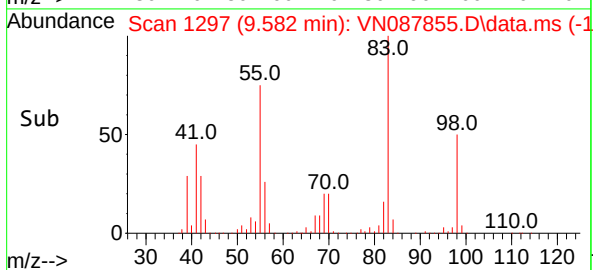
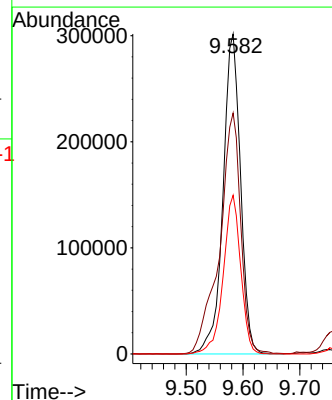
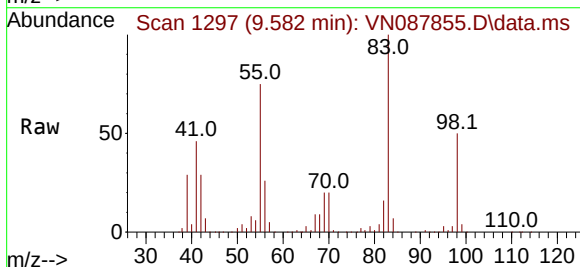
Tgt Ion: 83 Resp: 646552

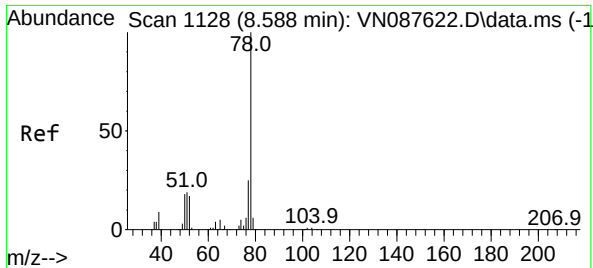
Ion Ratio Lower Upper

83 100

55 75.2 64.6 96.8

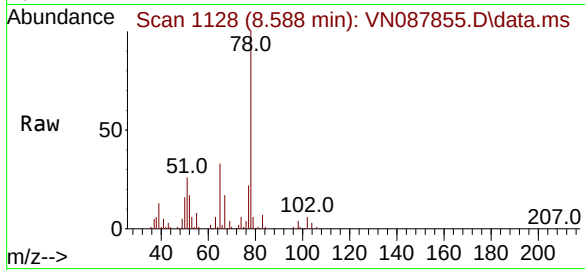
98 49.6 38.4 57.6





#40
Benzene
Concen: 8.668 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

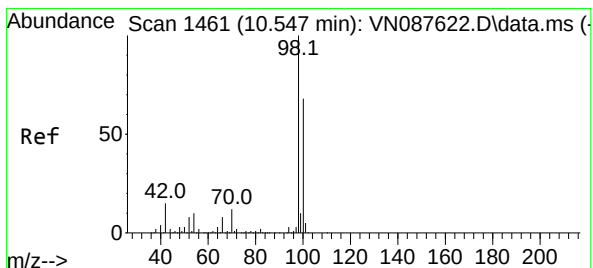
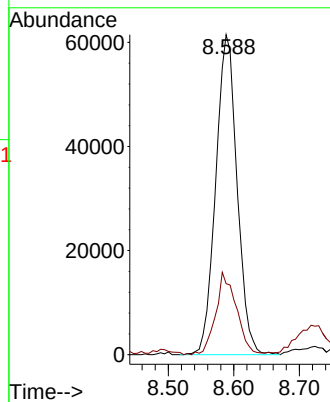
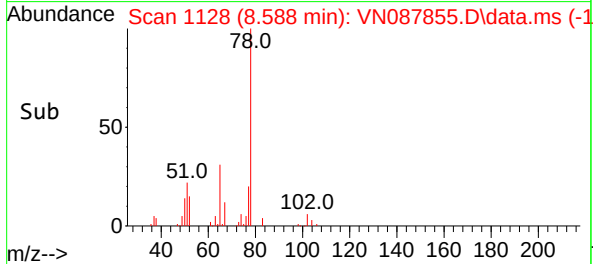
Instrument :
MSVOA_N
ClientSampleId :
MW1



Tgt Ion: 78 Resp: 13885
Ion Ratio Lower Upper
78 100
77 21.5 19.7 29.5

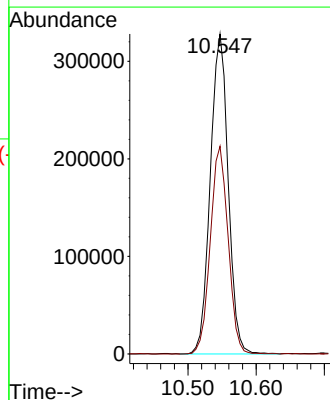
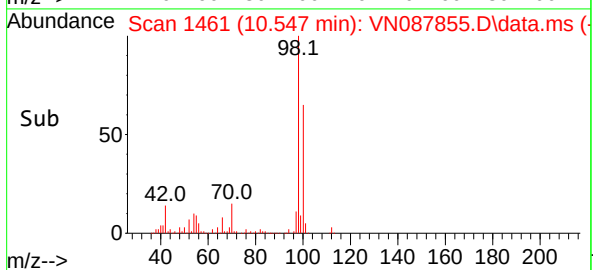
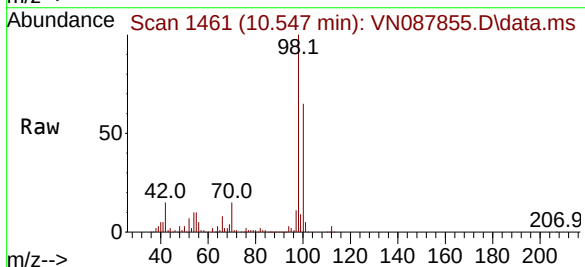
Manual Integrations
APPROVED

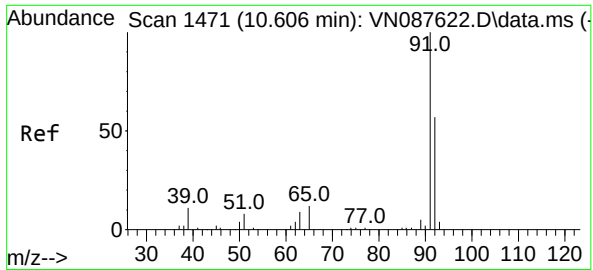
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#50
Toluene-d8
Concen: 46.968 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

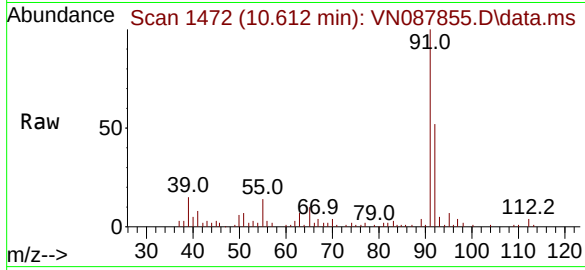
Tgt Ion: 98 Resp: 598470
Ion Ratio Lower Upper
98 100
100 64.7 52.8 79.2





#52
Toluene
Concen: 3.806 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

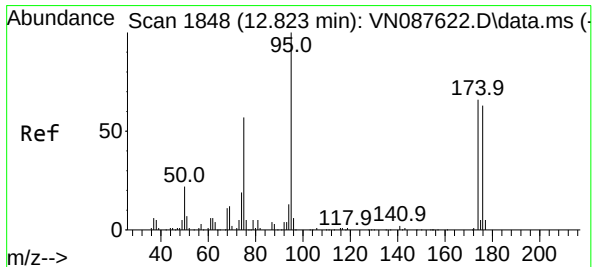
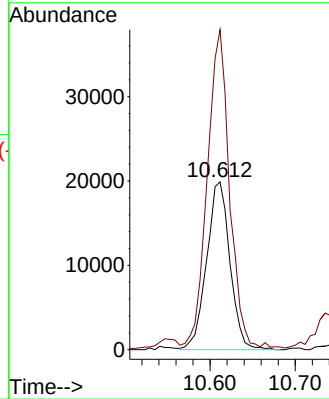
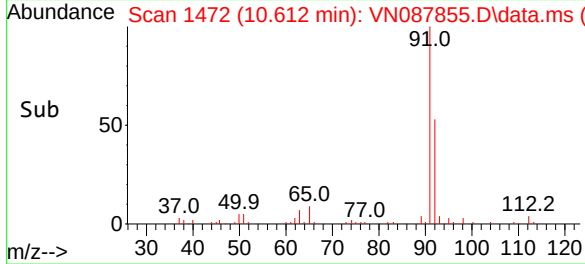
Instrument :
MSVOA_N
ClientSampleId :
MW1



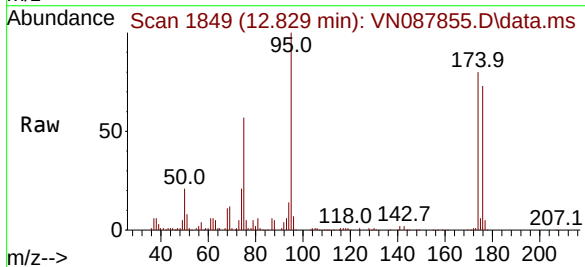
Tgt Ion: 92 Resp: 3780
Ion Ratio Lower Upper
92 100
91 178.9 140.4 210.6

Manual Integrations
APPROVED

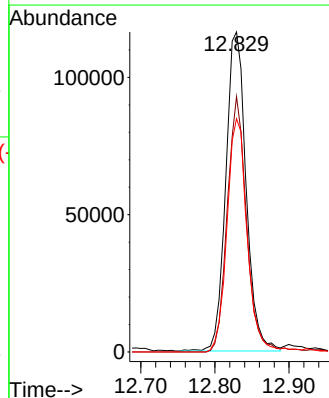
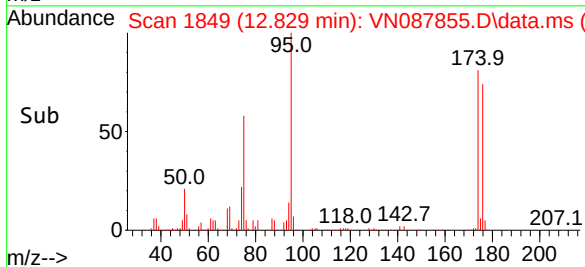
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025

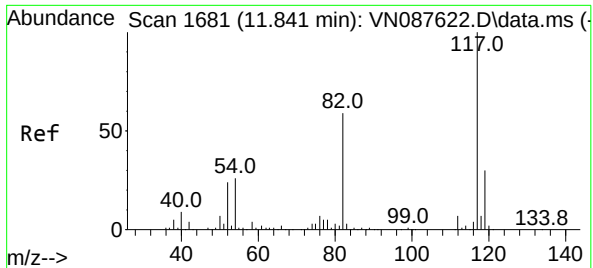


#62
4-Bromofluorobenzene
Concen: 48.910 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11



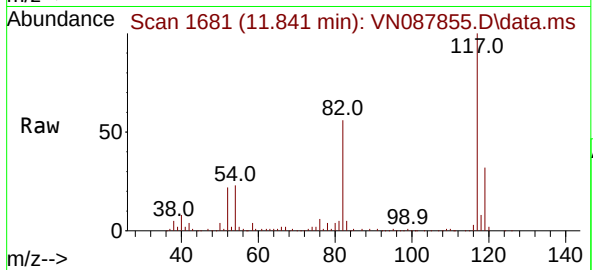
Tgt Ion: 95 Resp: 221635
Ion Ratio Lower Upper
95 100
174 76.1 0.0 138.4
176 72.6 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

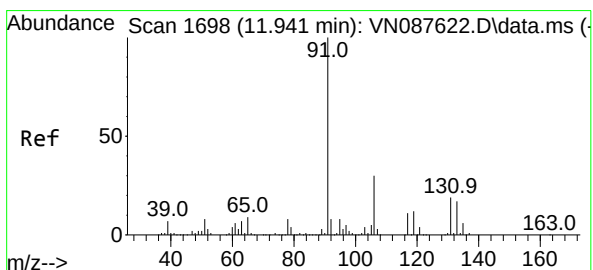
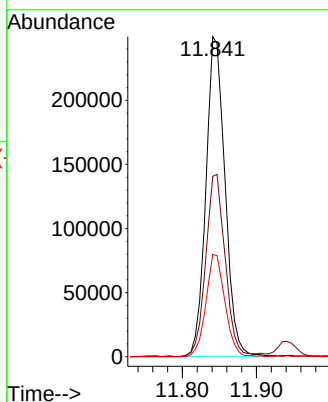
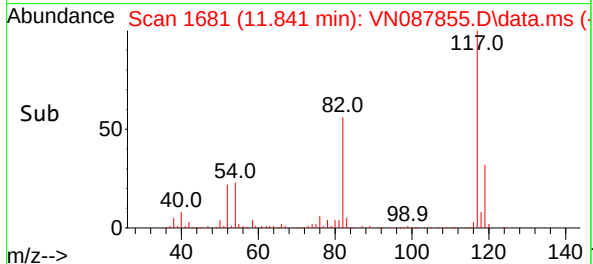
Instrument :
MSVOA_N
ClientSampleId :
MW1



Tgt Ion:117 Resp: 44896
Ion Ratio Lower Upper
117 100
82 56.3 47.4 71.2
119 31.9 24.3 36.5

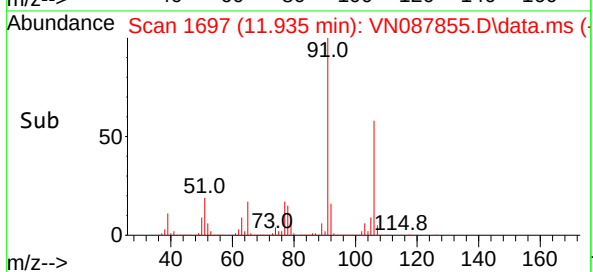
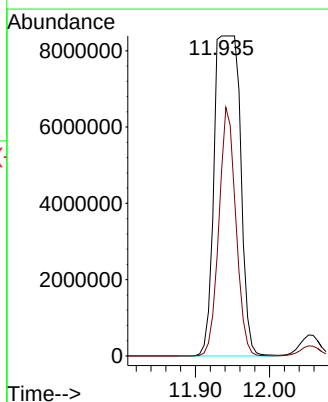
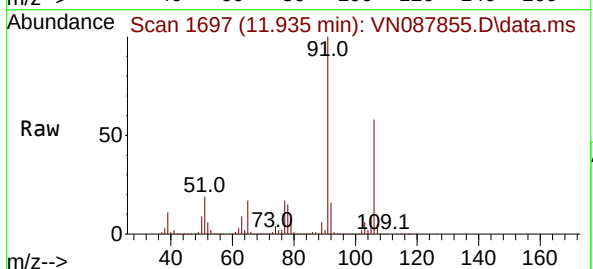
Manual Integrations
APPROVED

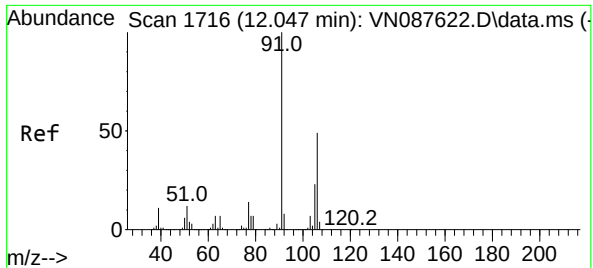
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#67
Ethyl Benzene
Concen: 1064.553 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

Tgt Ion: 91 Resp:20587447
Ion Ratio Lower Upper
91 100
106 57.8 24.1 36.1#





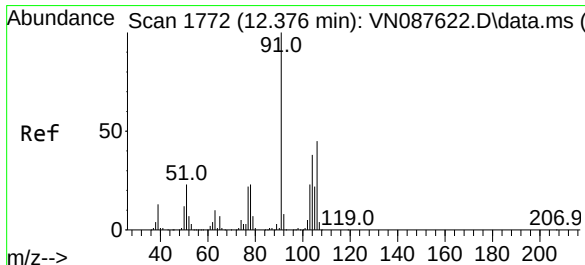
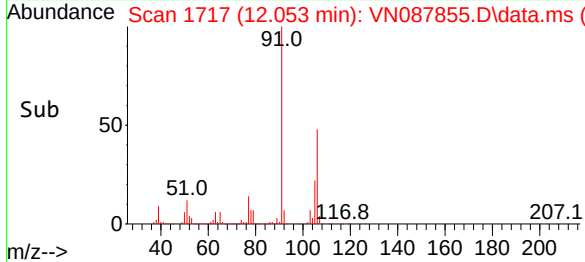
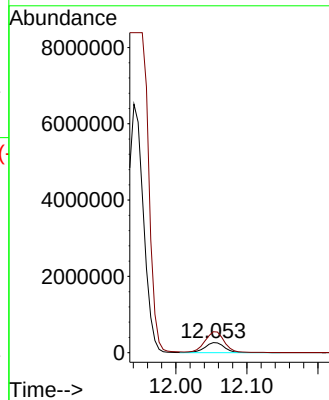
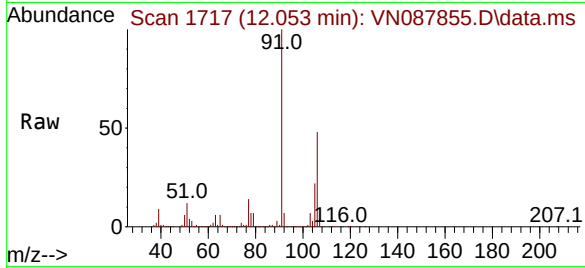
#68
m/p-Xylenes
Concen: 71.221 ug/l
RT: 12.053 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
MW1

Tgt Ion:106 Resp: 50513
Ion Ratio Lower Upper
106 100
91 207.8 169.3 253.9

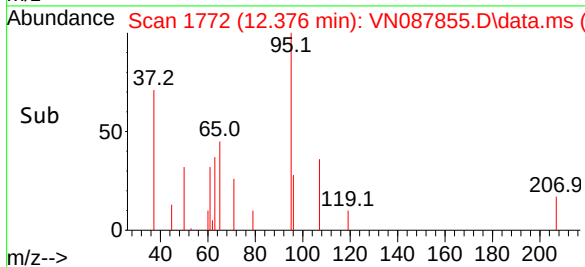
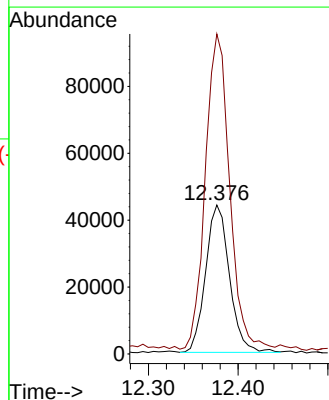
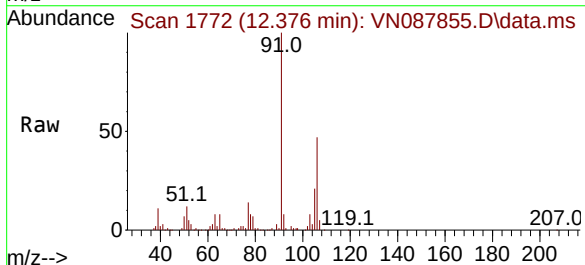
Manual Integrations
APPROVED

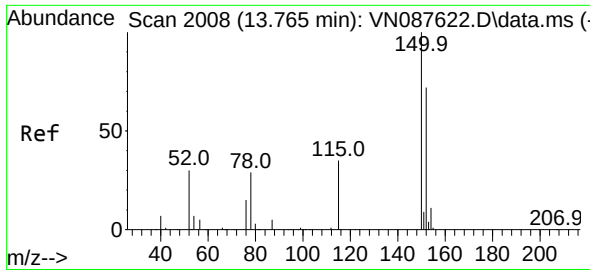
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#69
o-Xylene
Concen: 11.698 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

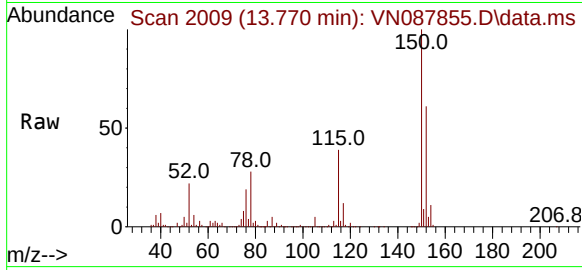
Tgt Ion:106 Resp: 81311
Ion Ratio Lower Upper
106 100
91 216.9 111.4 334.2





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2008
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

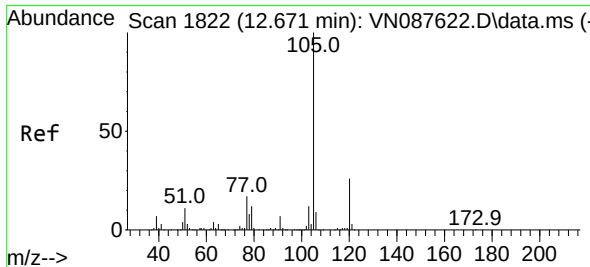
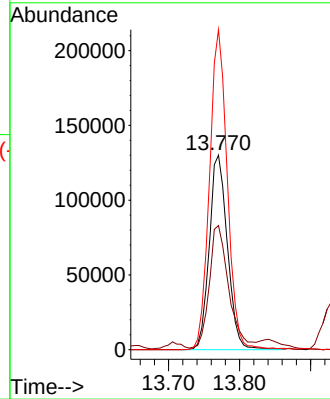
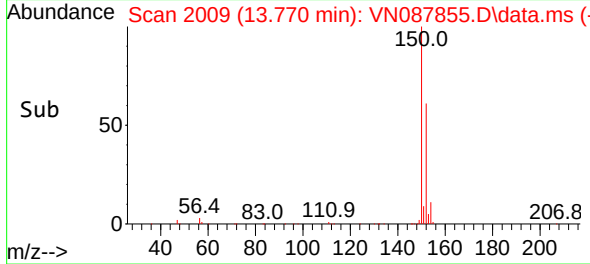
Instrument :
MSVOA_N
ClientSampleId :
MW1



Tgt Ion:152 Resp: 23141
Ion Ratio Lower Upper
152 100
115 67.3 32.3 96.8
150 161.5 0.0 351.0

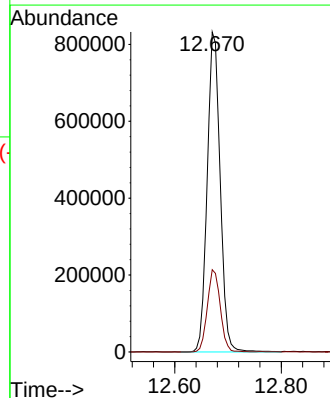
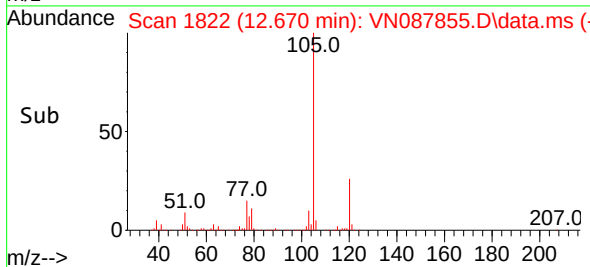
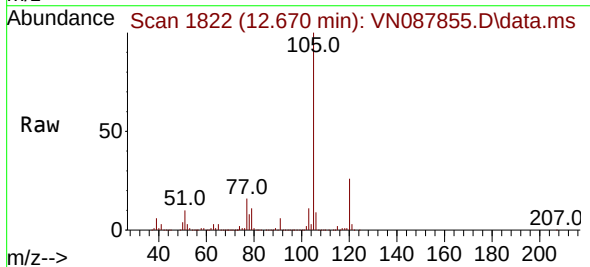
Manual Integrations
APPROVED

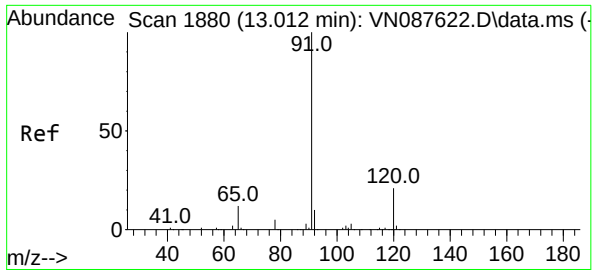
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#73
Isopropylbenzene
Concen: 75.009 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

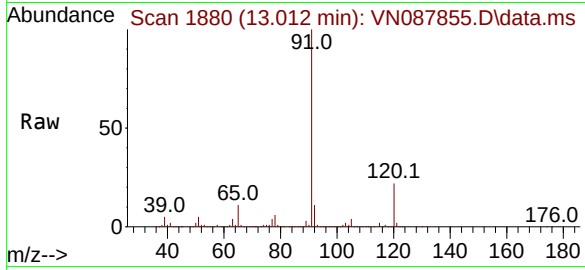
Tgt Ion:105 Resp: 1402638
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.3





#78
n-propylbenzene
Concen: 222.613 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

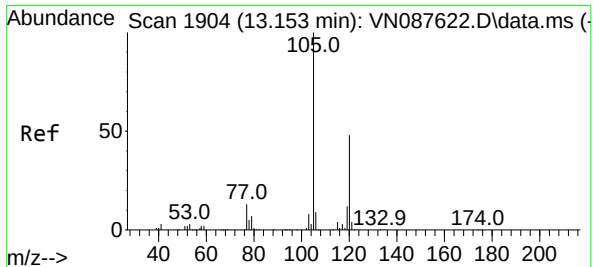
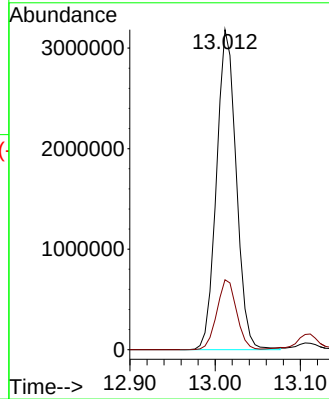
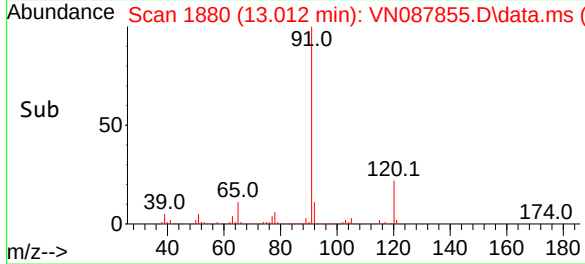
Instrument :
MSVOA_N
ClientSampleId :
MW1



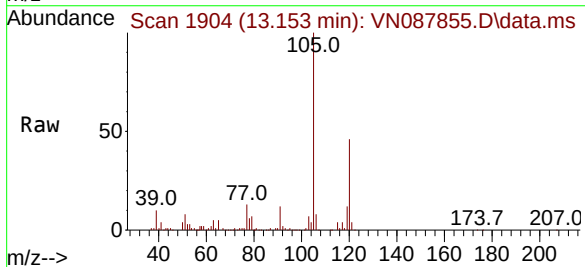
Tgt Ion: 91 Resp: 5127514
Ion Ratio Lower Upper
91 100
120 21.9 10.7 32.1

Manual Integrations
APPROVED

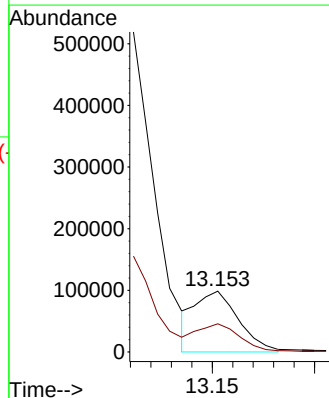
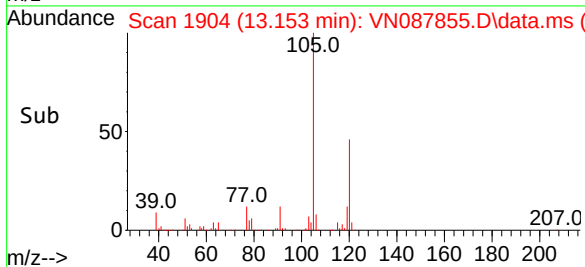
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025

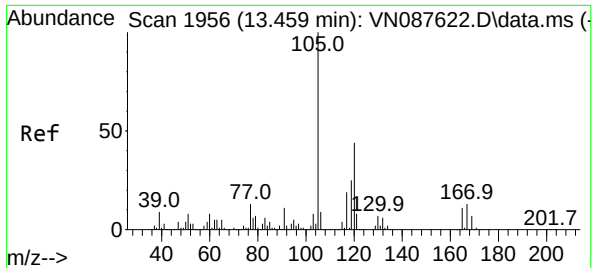


#80
1,3,5-Trimethylbenzene
Concen: 9.313 ug/l m
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11



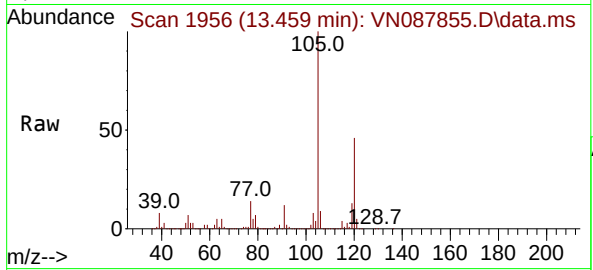
Tgt Ion:105 Resp: 147731
Ion Ratio Lower Upper
105 100
120 0.0 23.2 69.6#





#84
1,2,4-Trimethylbenzene
Concen: 790.823 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

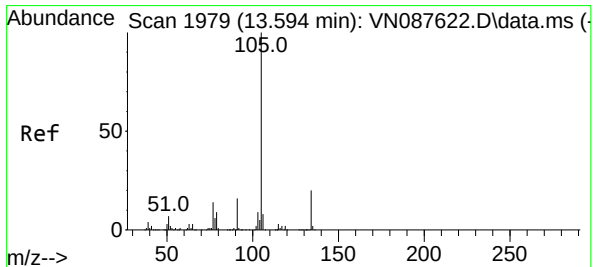
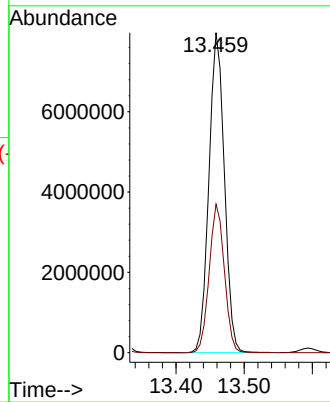
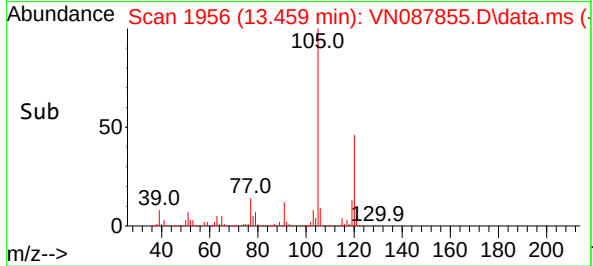
Instrument :
MSVOA_N
ClientSampleId :
MW1



Tgt Ion:105 Resp:1255828
Ion Ratio Lower Upper
105 100
120 45.7 22.0 66.0

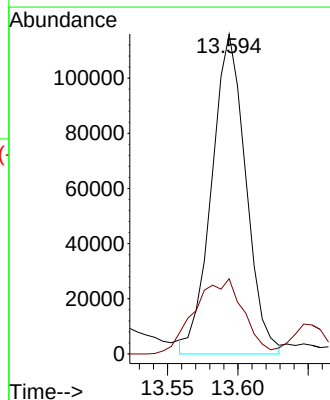
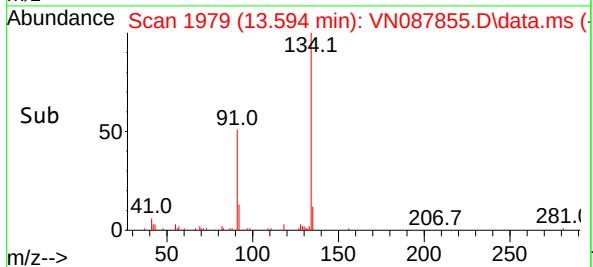
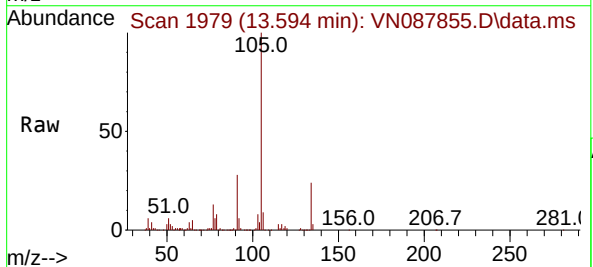
Manual Integrations
APPROVED

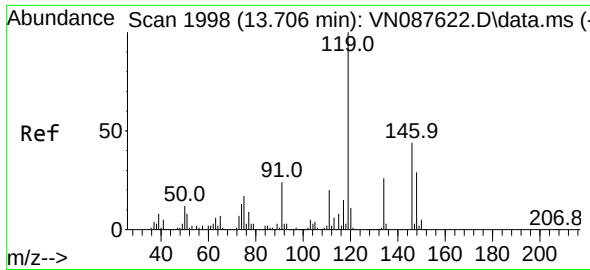
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#85
sec-Butylbenzene
Concen: 9.958 ug/l m
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

Tgt Ion:105 Resp: 195343
Ion Ratio Lower Upper
105 100
134 0.0 9.6 28.6#





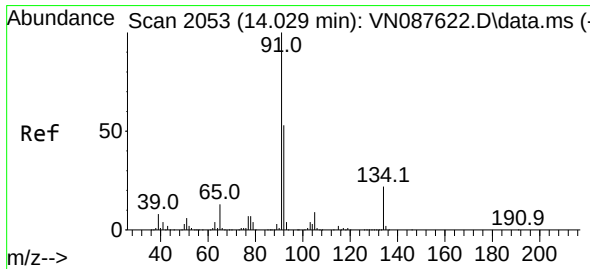
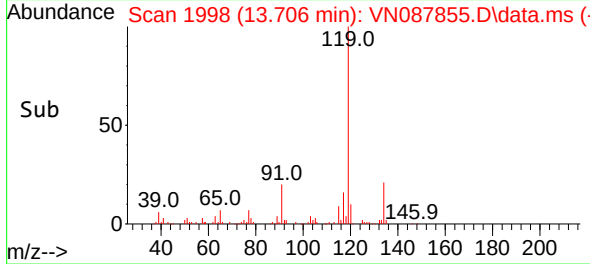
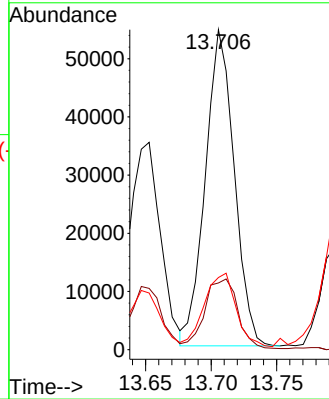
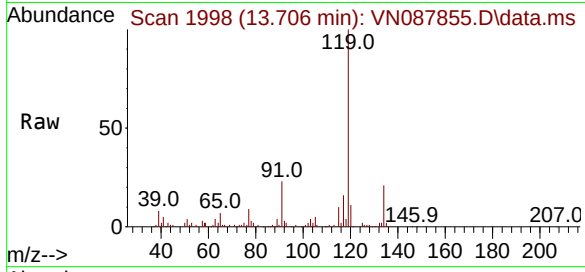
#86
p-Isopropyltoluene
Concen: 5.144 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

Instrument :
MSVOA_N
ClientSampleId :
MW1

Tgt Ion: 119 Resp: 83334
Ion Ratio Lower Upper
119 100
134 25.2 12.7 38.0
91 0.0 12.5 37.5

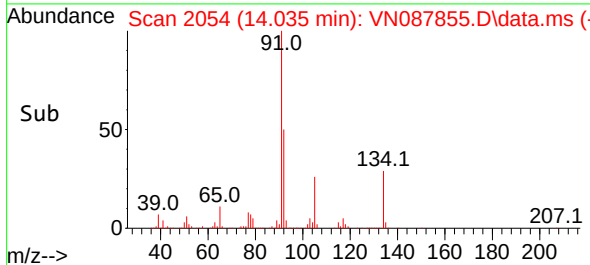
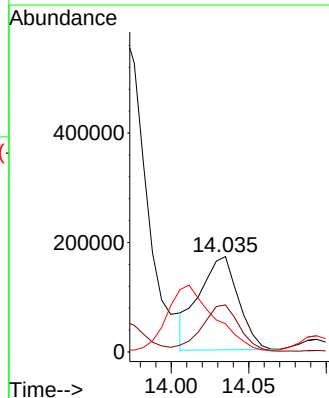
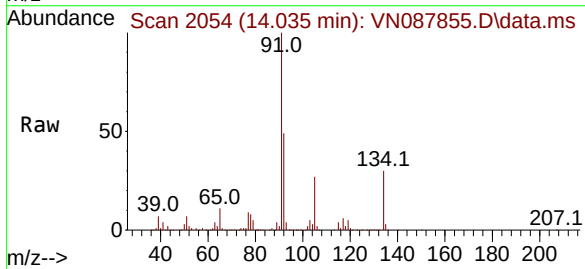
Manual Integrations
APPROVED

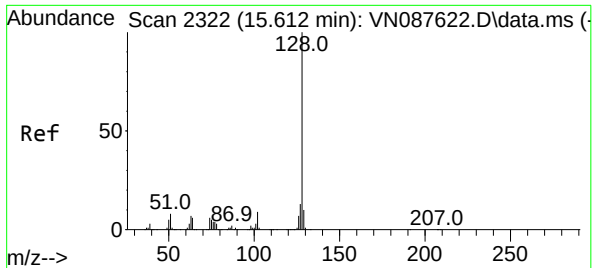
Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



#89
n-Butylbenzene
Concen: 18.653 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

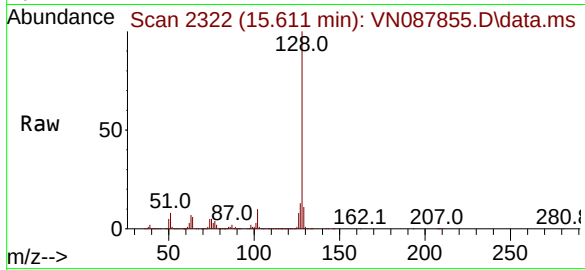
Tgt Ion: 91 Resp: 300086
Ion Ratio Lower Upper
91 100
92 47.4 25.9 77.8
134 0.0 11.7 35.0





#95
Naphthalene
Concen: 576.249 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087855.D
Acq: 16 Sep 2025 17:11

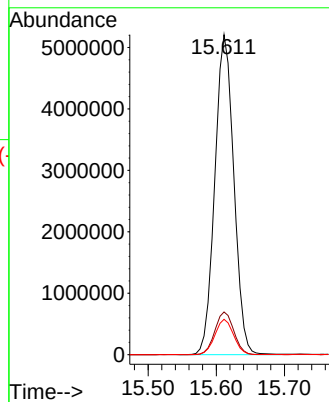
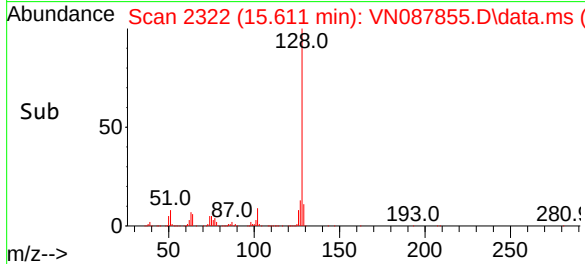
Instrument :
MSVOA_N
ClientSampleId :
MW1



Tgt Ion:128 Resp:1009609
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 10.9 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2025
Supervised By :Mahesh Dadoda 09/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087855.D
 Acq On : 16 Sep 2025 17:11
 Operator : JC\MD
 Sample : Q3109-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1

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: VN087855.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.265	212	223	244	rBV	2468333	5973705	8.26%	2.073%
2	3.653	279	289	315	rVB2	370720	1119529	1.55%	0.388%
3	4.142	362	372	390	rVB2	387215	1089299	1.51%	0.378%
4	5.330	550	574	606	rVB4	1360665	8564103	11.84%	2.972%
5	5.800	638	654	674	rBV	1259514	4415452	6.11%	1.532%
6	6.635	781	796	810	rBV2	393066	1212858	1.68%	0.421%
7	6.777	810	820	830	rBV2	280902	881046	1.22%	0.306%
8	7.071	859	870	884	rVB3	298931	893542	1.24%	0.310%
9	7.312	899	911	933	rVB	3428127	10184757	14.08%	3.534%
10	7.988	1018	1026	1036	rVB	431584	1057749	1.46%	0.367%
11	8.241	1057	1069	1077	rVV2	2326948	7068755	9.77%	2.453%
12	8.312	1077	1081	1092	rVB2	401287	924991	1.28%	0.321%
13	8.429	1092	1101	1107	rBV	442461	1015601	1.40%	0.352%
14	8.565	1117	1124	1138	rBV3	256604	803936	1.11%	0.279%
15	8.706	1139	1148	1154	rVV6	526675	1557322	2.15%	0.540%
16	8.771	1154	1159	1165	rVV3	475716	1106740	1.53%	0.384%
17	8.835	1165	1170	1179	rVB2	348629	806060	1.11%	0.280%
18	9.082	1202	1212	1220	rBV3	1111658	2884570	3.99%	1.001%
19	9.582	1280	1297	1313	rBV2	1531620	4210335	5.82%	1.461%
20	10.082	1375	1382	1387	rBV	803861	1519303	2.10%	0.527%
21	10.429	1434	1441	1453	rVB	440913	900710	1.25%	0.313%
22	10.547	1453	1461	1467	rBV	1056105	1998199	2.76%	0.693%
23	10.965	1525	1532	1542	rVB4	308505	771544	1.07%	0.268%
24	11.847	1675	1682	1688	rBV	830991	1517398	2.10%	0.527%
25	11.941	1689	1698	1709	rVV2	43373747	72323409	100.00%	25.097%
26	12.053	1709	1717	1730	rVB	1580808	3087418	4.27%	1.071%
27	12.670	1815	1822	1839	rVB	2065530	3516561	4.86%	1.220%
28	12.829	1842	1849	1859	rVV	606832	1109418	1.53%	0.385%
29	13.012	1870	1880	1887	rBV	6441762	10384999	14.36%	3.604%
30	13.106	1887	1896	1901	rVV	1306916	2530038	3.50%	0.878%
31	13.311	1924	1931	1943	rBV	1761205	2989313	4.13%	1.037%
32	13.459	1948	1956	1970	rVV	23332720	36284337	50.17%	12.591%
33	13.588	1970	1978	1984	rVB2	306030	748466	1.03%	0.260%
34	13.770	2003	2009	2012	rBV	873917	1656673	2.29%	0.575%
35	13.929	2029	2036	2038	rBV	1290124	2038253	2.82%	0.707%
36	13.970	2038	2043	2048	rVV	10055164	16062643	22.21%	5.574%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087855.D
 Acq On : 16 Sep 2025 17:11
 Operator : JC\MD
 Sample : Q3109-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW1

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

37	14.159	2069	2075	2080	rBV2	872939	1484505	2.05%	0.515%
38	14.217	2080	2085	2088	rVV	2072671	3362818	4.65%	1.167%
39	14.247	2088	2090	2095	rVV2	1226724	1782225	2.46%	0.618%
40	14.306	2095	2100	2106	rVV	3637619	5603129	7.75%	1.944%
41	14.370	2106	2111	2115	rVV	848792	1410320	1.95%	0.489%
42	14.423	2115	2120	2127	rVB	2701082	4632666	6.41%	1.608%
43	14.629	2147	2155	2158	rBV	2199501	3580818	4.95%	1.243%
44	14.670	2158	2162	2167	rVB	2888273	4440472	6.14%	1.541%
45	14.900	2196	2201	2207	rBV	2509169	4245104	5.87%	1.473%
46	15.023	2213	2222	2229	rBV2	4449356	9637096	13.33%	3.344%
47	15.182	2242	2249	2257	rBV2	701281	1343603	1.86%	0.466%
48	15.288	2257	2267	2273	rBV3	683241	1904891	2.63%	0.661%
49	15.411	2280	2288	2298	rVB2	624141	1555202	2.15%	0.540%
50	15.611	2301	2322	2333	rBV	11095267	21531112	29.77%	7.472%
51	15.717	2333	2340	2346	rVV	774047	1698556	2.35%	0.589%
52	16.747	2508	2515	2522	rBV	2135350	4749181	6.57%	1.648%

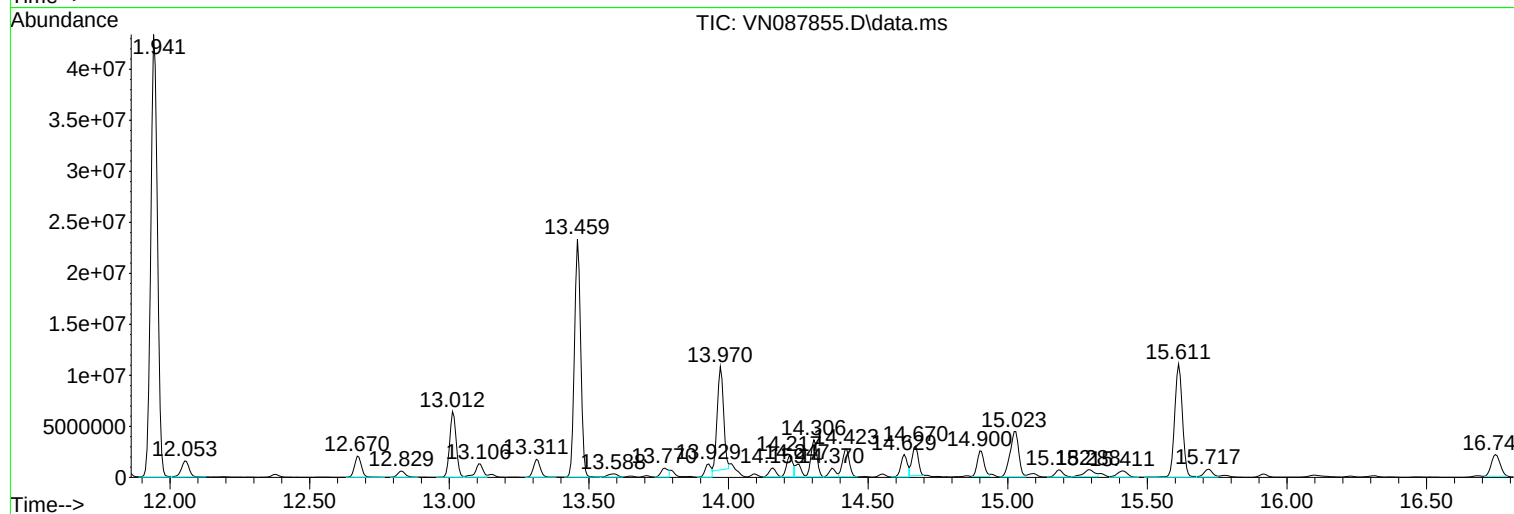
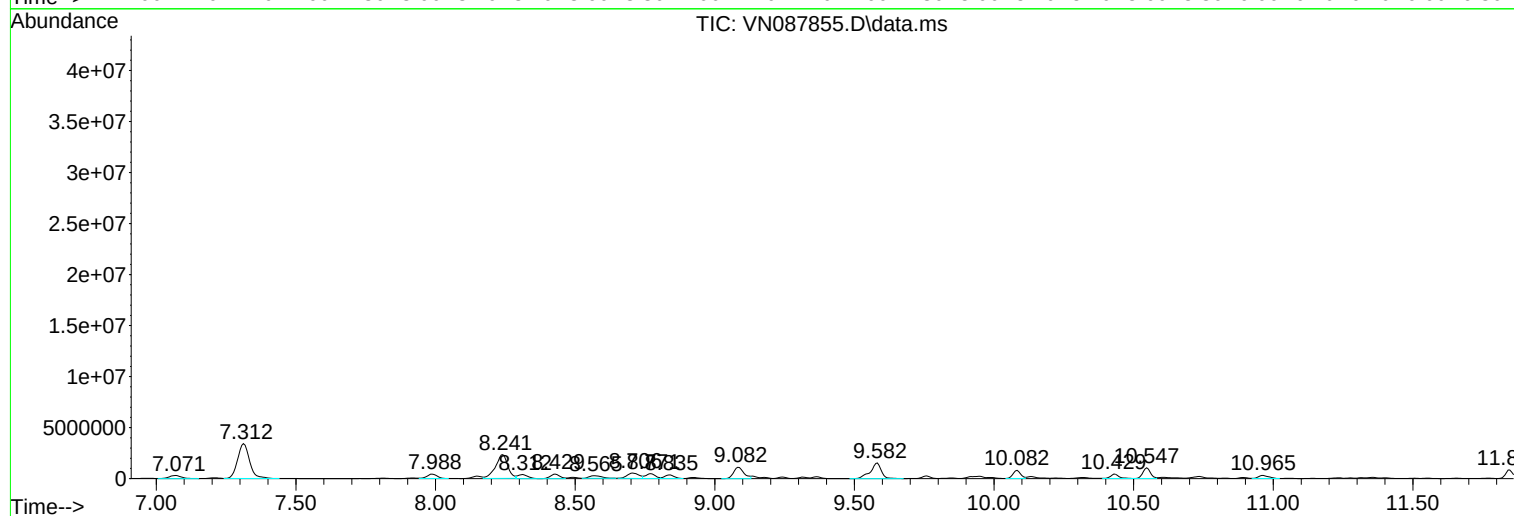
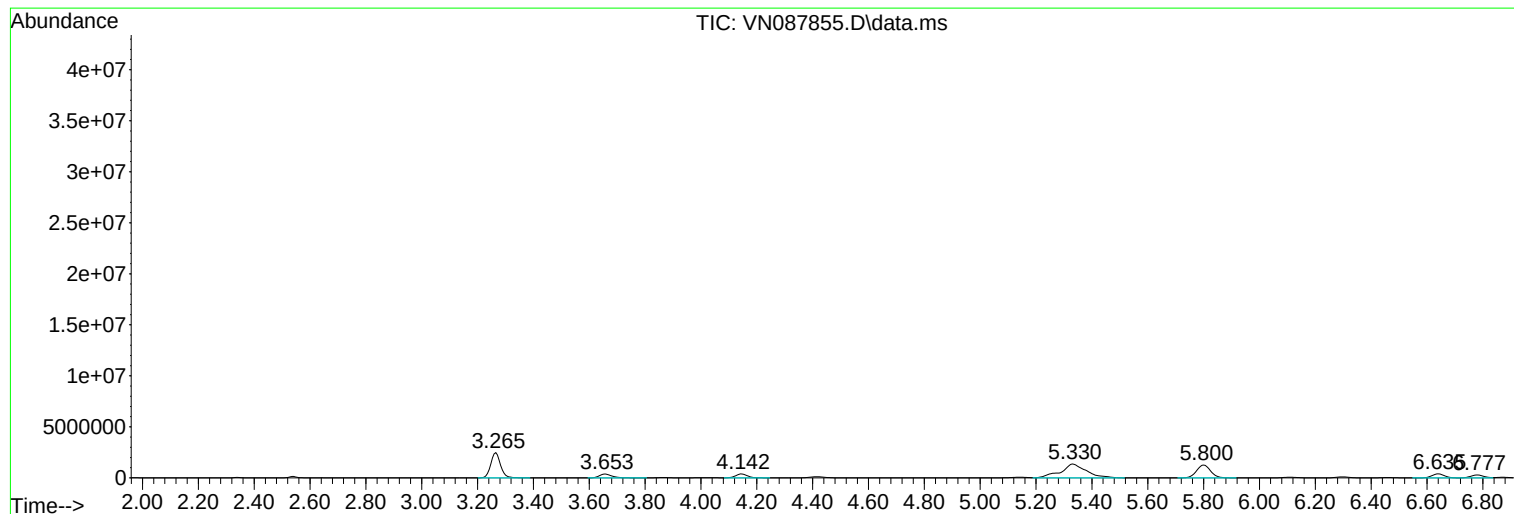
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

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\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

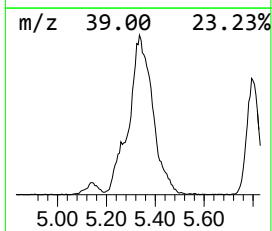
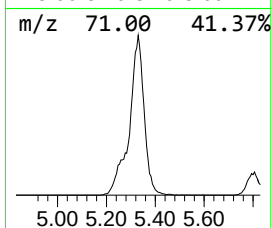
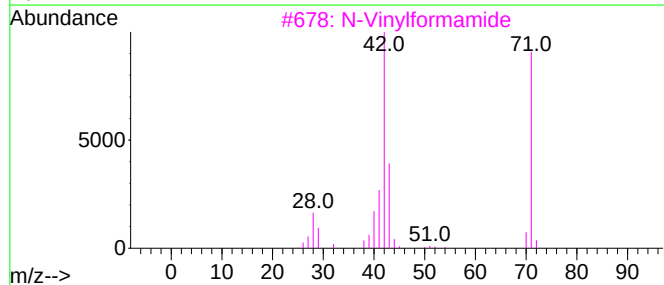
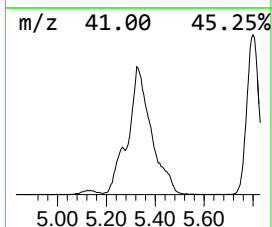
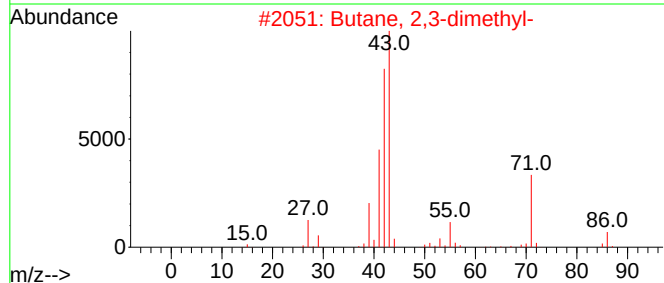
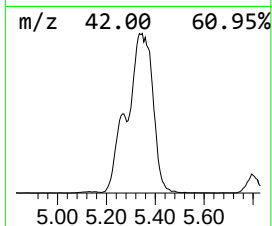
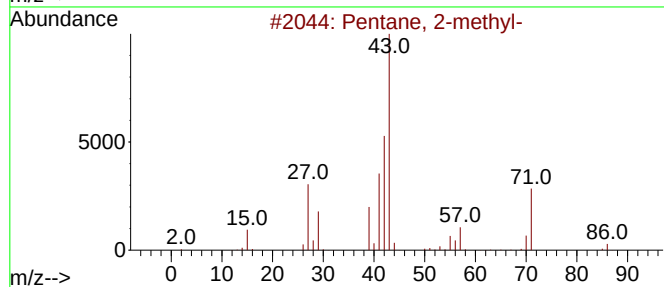
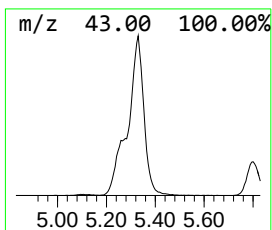
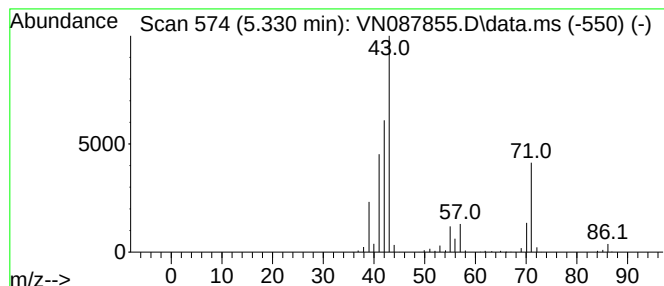
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Quant Title : SW846 8260

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

Peak Number 1 Pentane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.330	60.58 ug/l	8564100	Pentafluorobenzene	8.212

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	49
3			N-Vinylformamide	71	C3H5NO	013162-05-5	38
4			Propanoic acid, 2-methyl-, 2-pro...	128	C7H12O2	015727-77-2	25
5			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	25



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

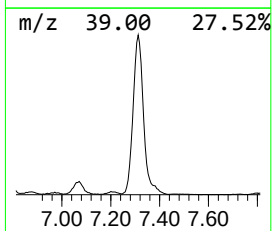
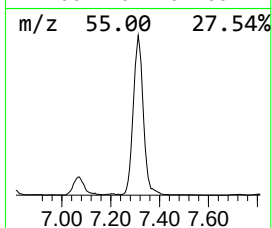
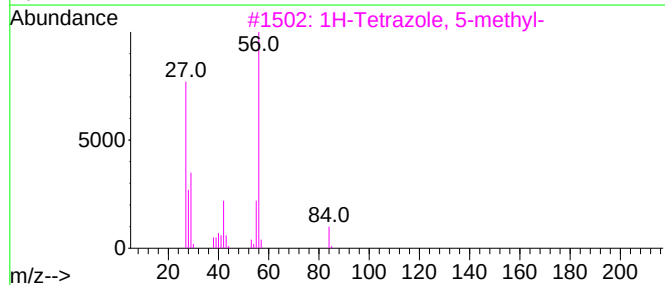
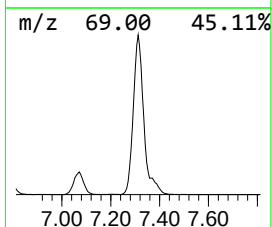
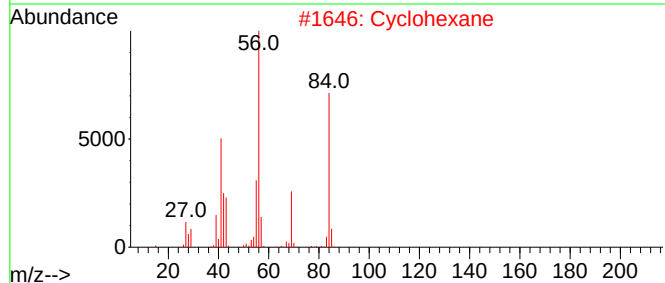
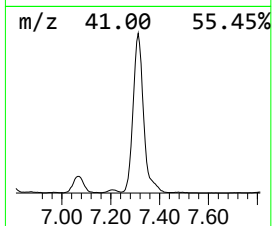
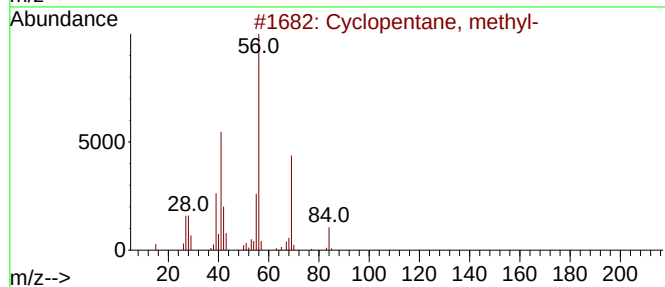
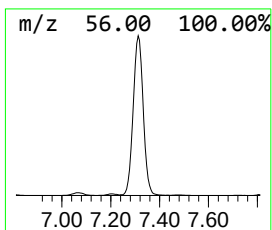
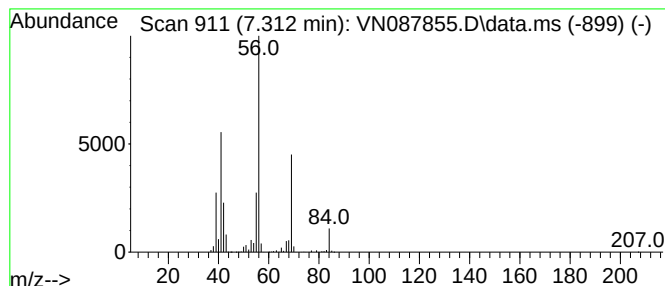
Instrument :
MSVOA_N
ClientSampleId :
MW1

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

Peak Number 2 Cyclopentane, methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
7.312	72.04 ug/l	10184800	Pentafluorobenzene	8.212	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2	Cyclohexane	84	C6H12	000110-82-7	78
3	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	72
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5	Cyclobutane	56	C4H8	000287-23-0	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

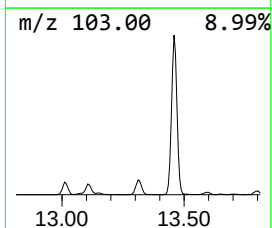
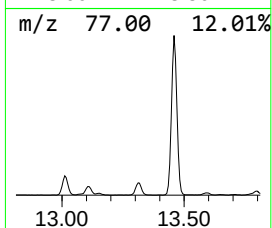
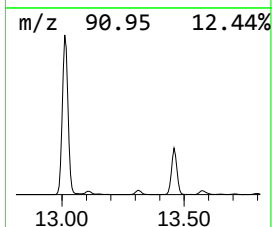
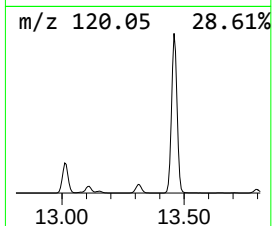
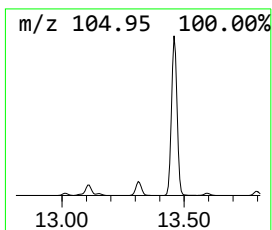
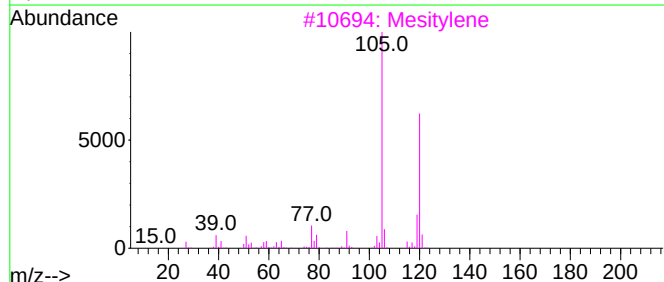
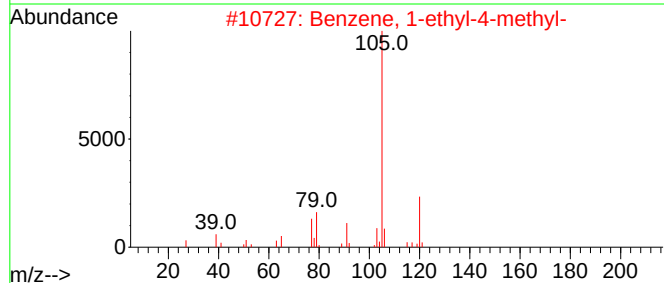
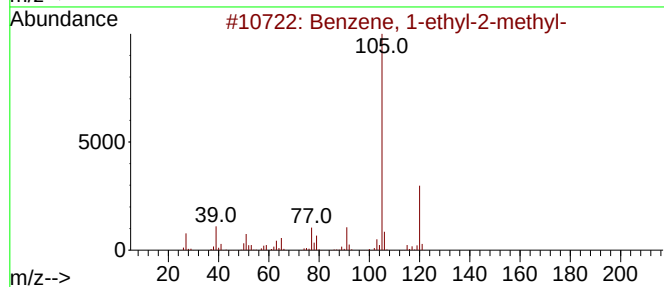
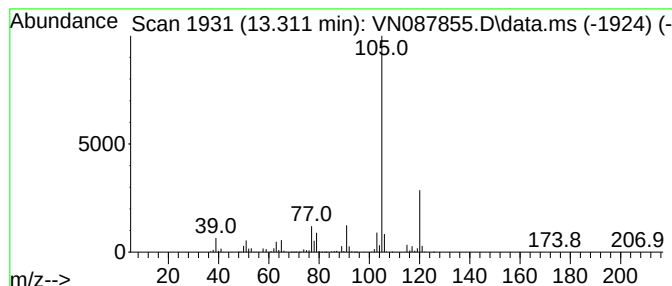
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 3 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.312	90.22 ug/l	2989310	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
2			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	93
3			Mesitylene	120	C9H12	000108-67-8	90
4			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	90
5			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

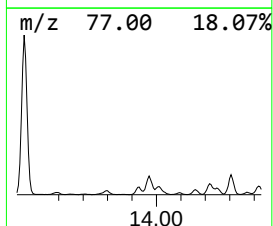
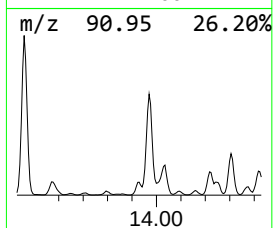
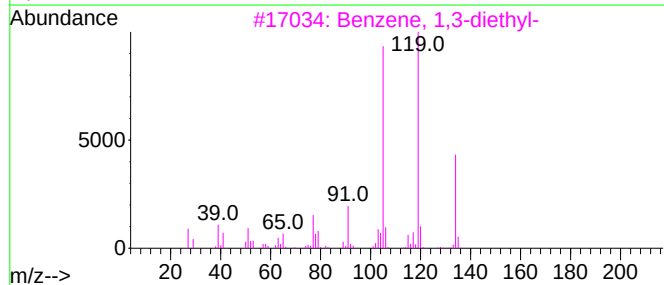
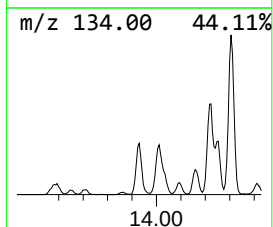
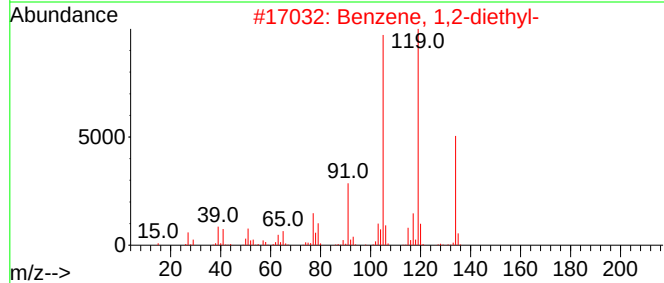
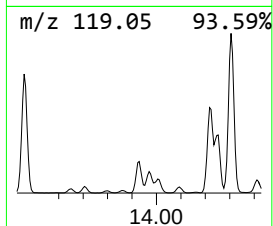
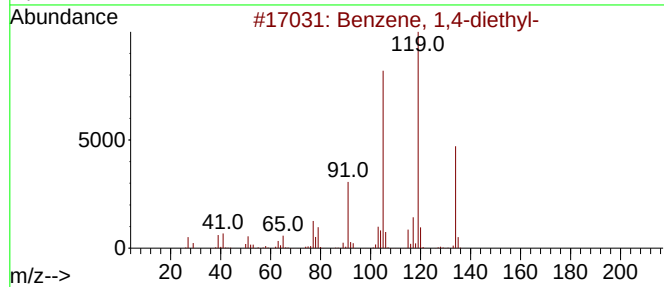
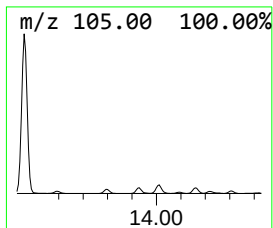
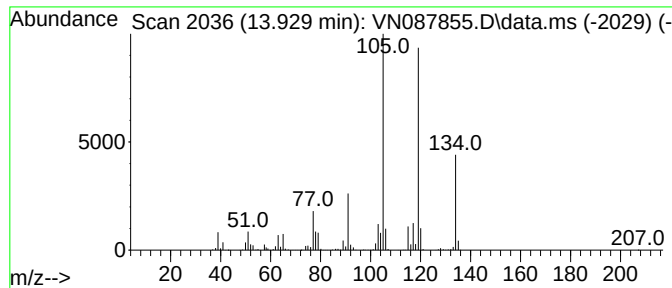
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 4 Benzene, 1,4-diethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.929	61.52 ug/l	2038250	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	97
2			Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	96
3			Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	96
4			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

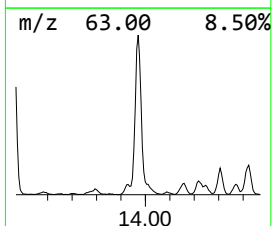
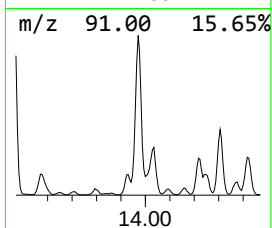
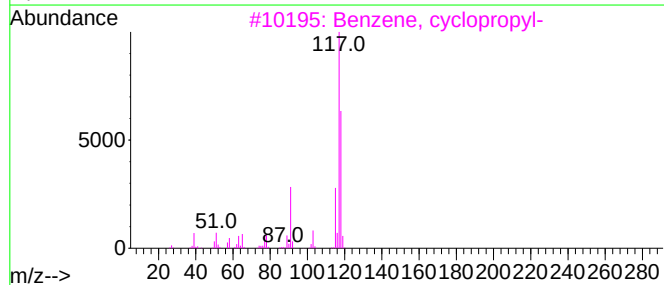
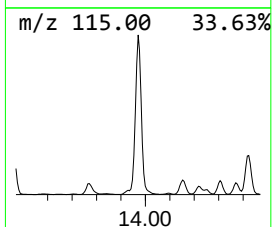
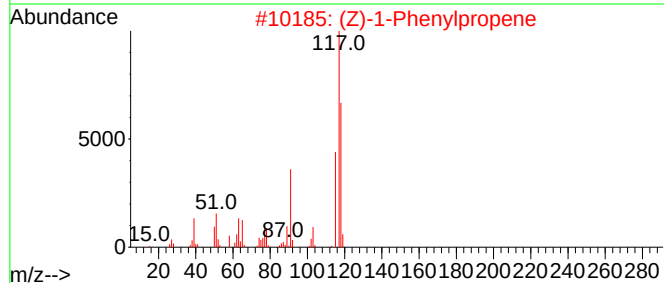
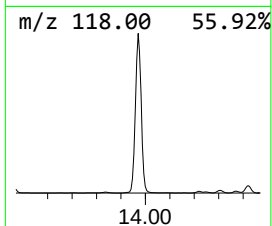
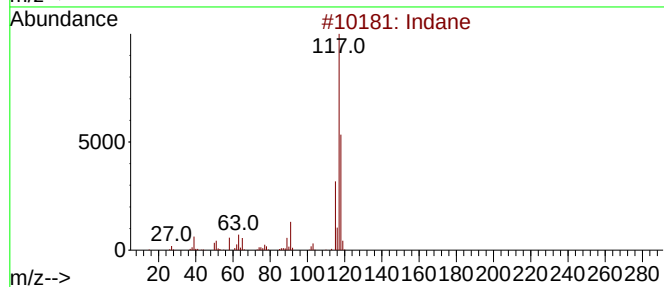
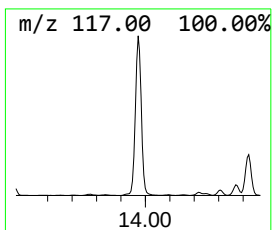
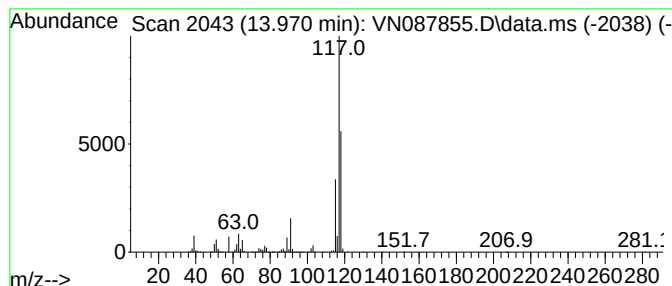
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 5 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.970	484.79 ug/l	16062600	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	91
2			(Z)-1-Phenylpropene	118	C9H10	000766-90-5	74
3			Benzene, cyclopropyl-	118	C9H10	000873-49-4	64
4			Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	59
5			Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

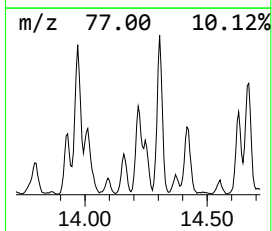
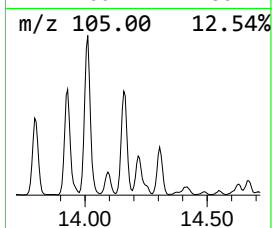
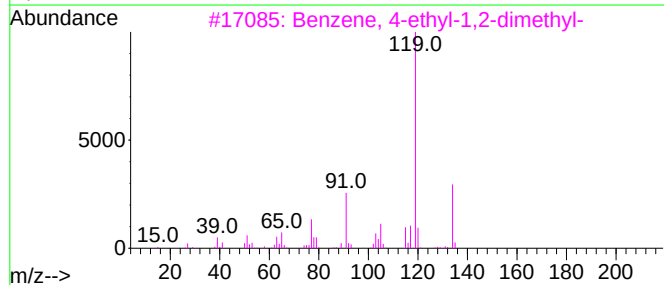
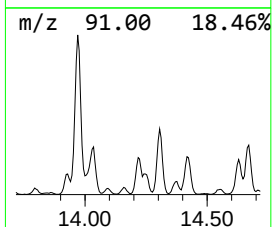
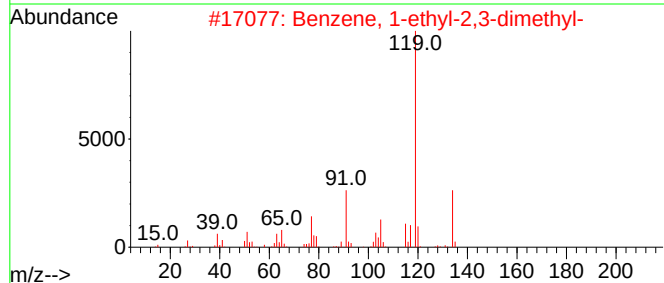
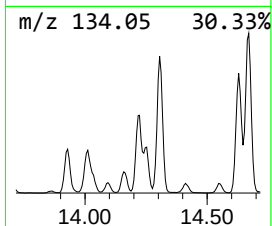
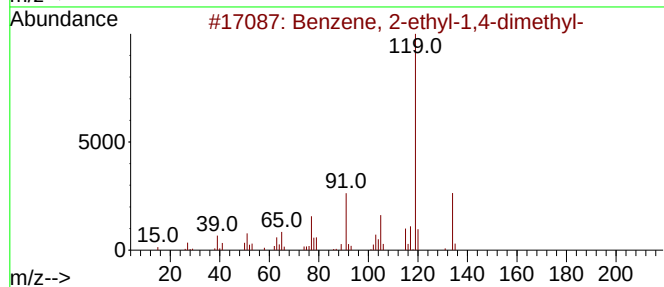
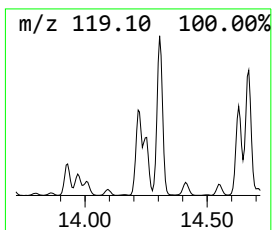
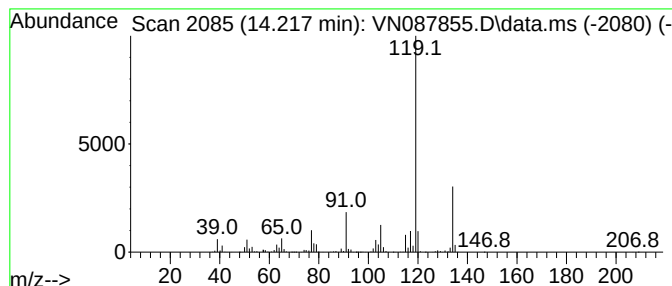
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 6 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.217	101.49 ug/l	3362820	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
3			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
4			o-Cymene	134	C10H14	000527-84-4	94
5			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

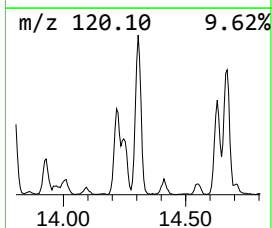
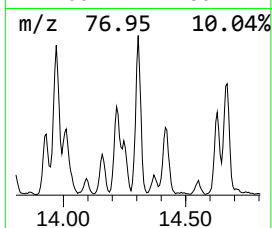
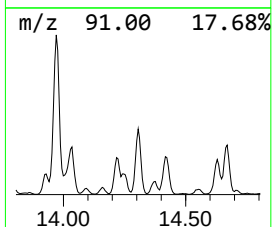
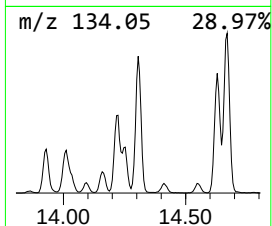
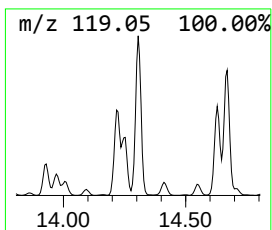
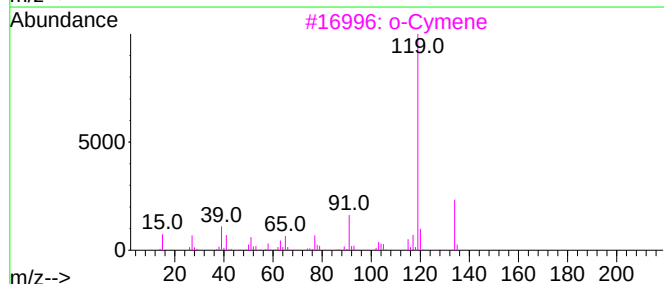
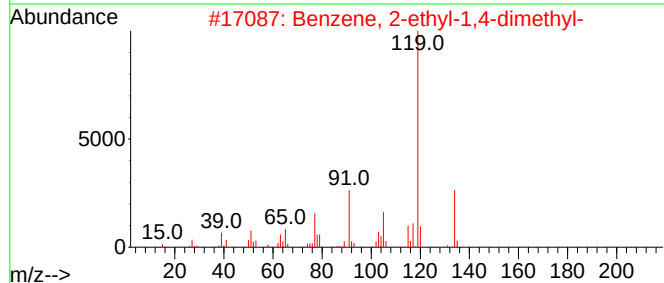
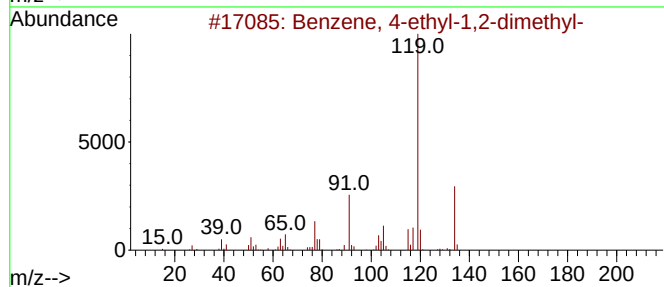
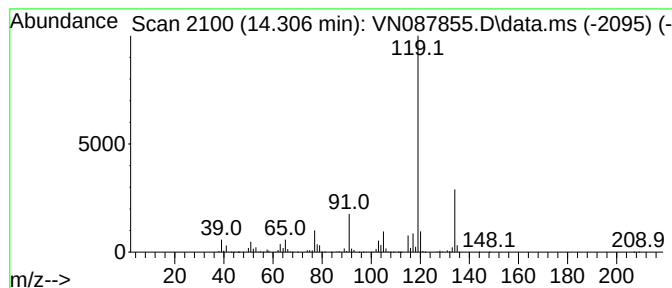
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Quant Title : SW846 8260

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

Peak Number 8 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.306	169.11 ug/l	5603130	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	97
2			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
3			o-Cymene	134	C10H14	000527-84-4	95
4			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

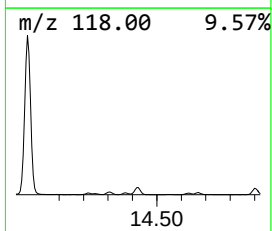
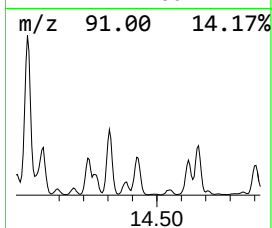
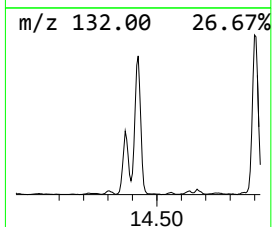
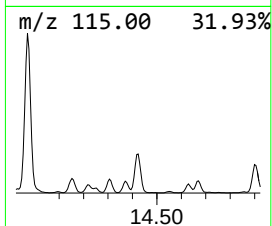
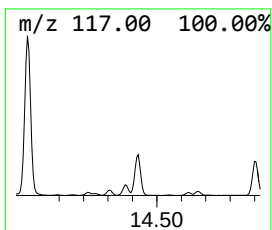
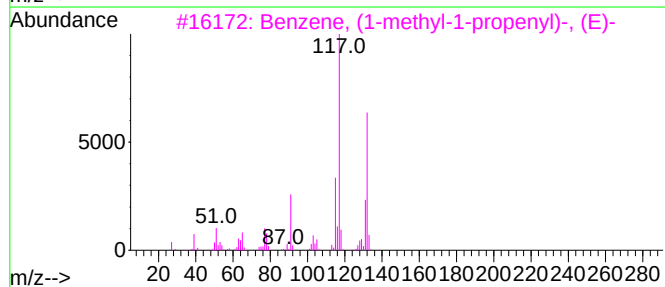
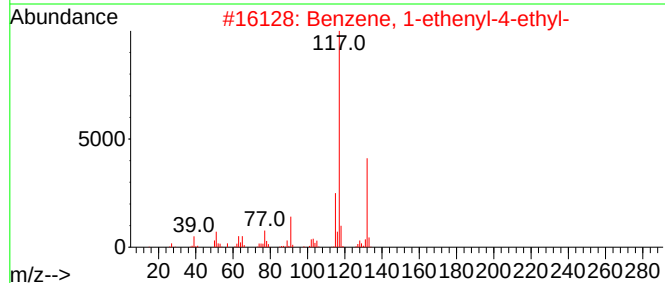
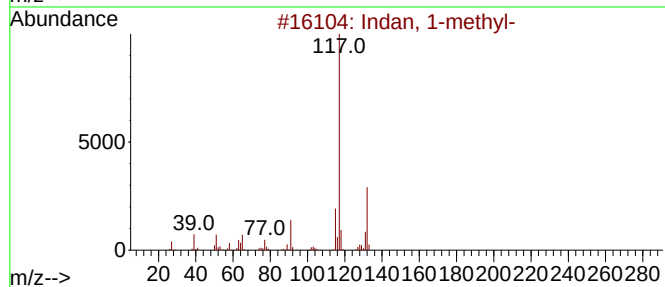
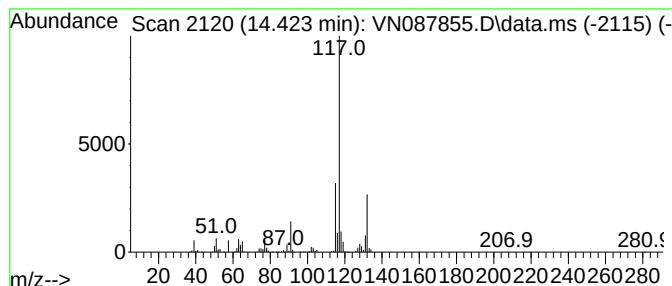
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Quant Title : SW846 8260

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

Peak Number 9 Indan, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.423	139.82 ug/l	4632670	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indan, 1-methyl-	132	C10H12	000767-58-8	87
2			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	86
3			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	83
4			1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	80
5			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

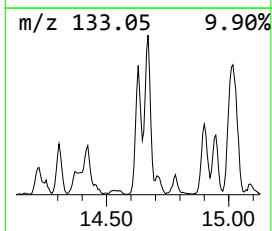
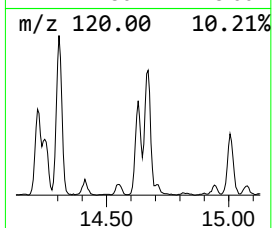
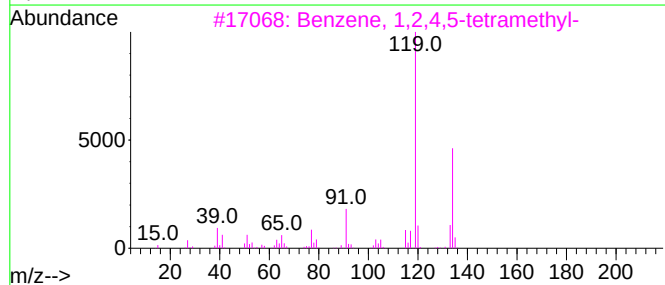
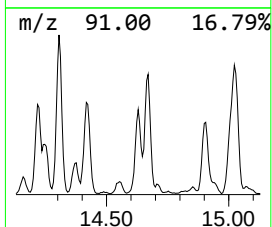
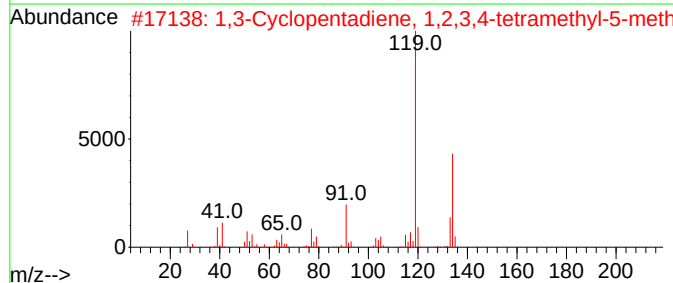
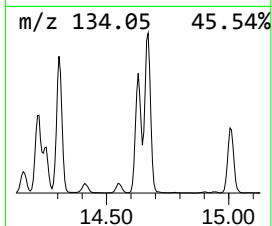
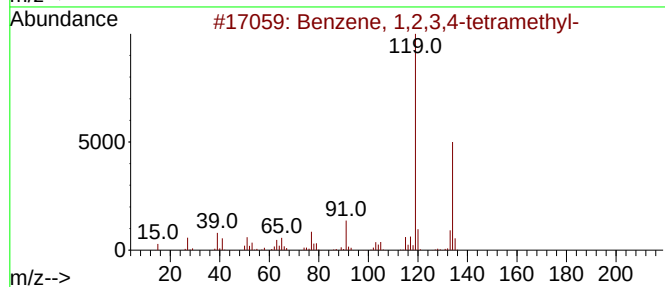
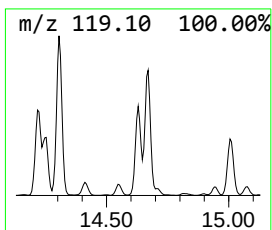
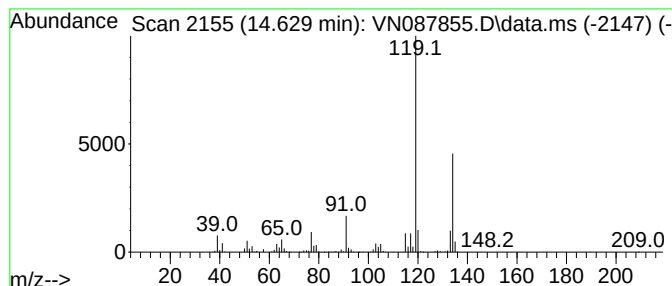
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Quant Title : SW846 8260

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

Peak Number 10 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.629	108.07 ug/l	3580820	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2			1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	97
3			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
4			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	96
5			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

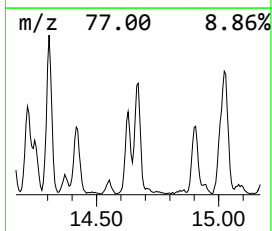
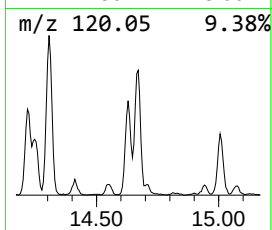
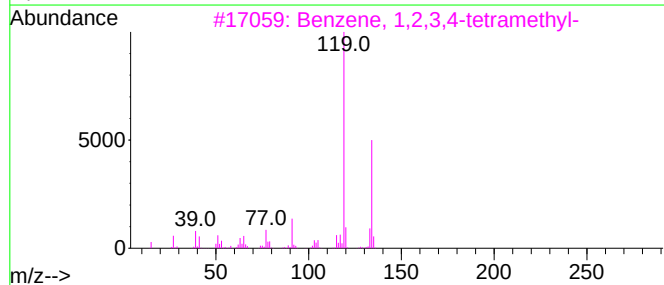
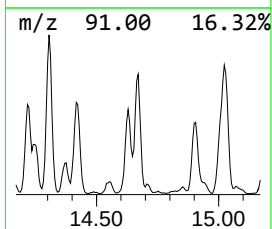
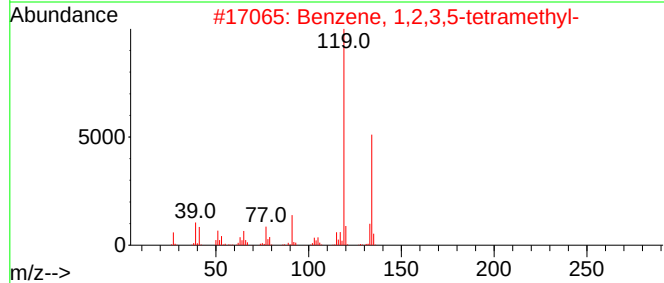
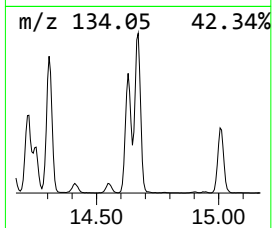
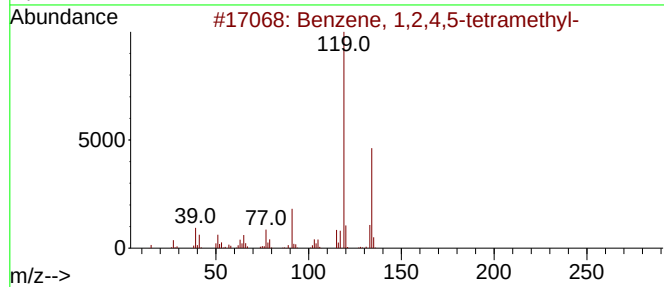
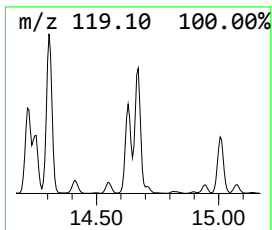
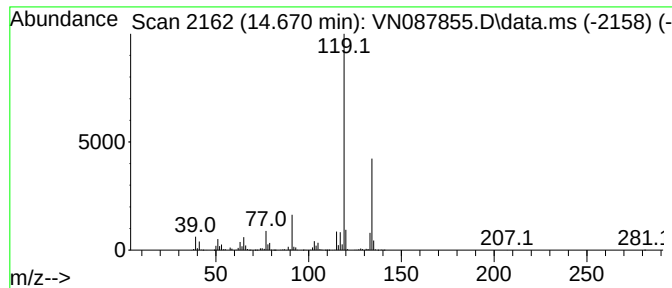
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Quant Title : SW846 8260

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

Peak Number 11 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.670	134.02 ug/l	4440470	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
4			o-Cymene	134	C10H14	000527-84-4	95
5			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

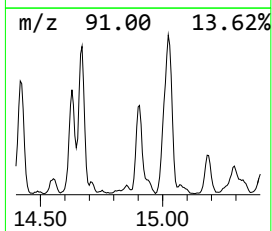
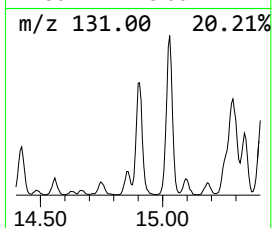
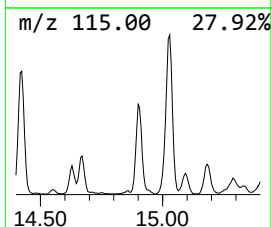
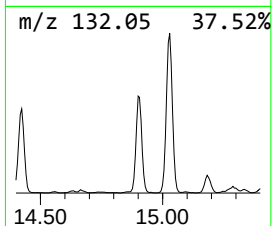
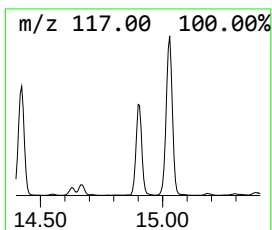
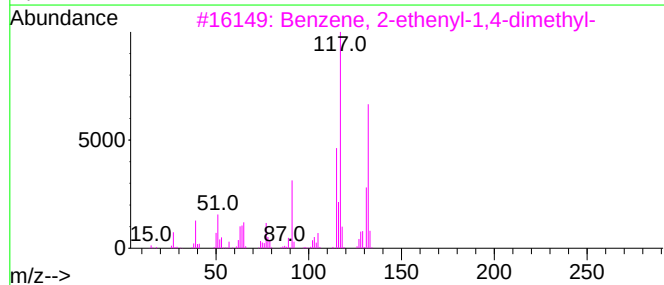
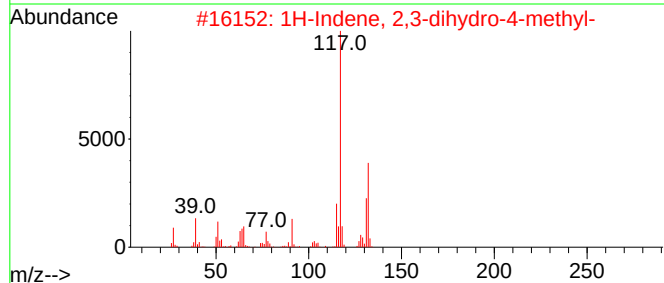
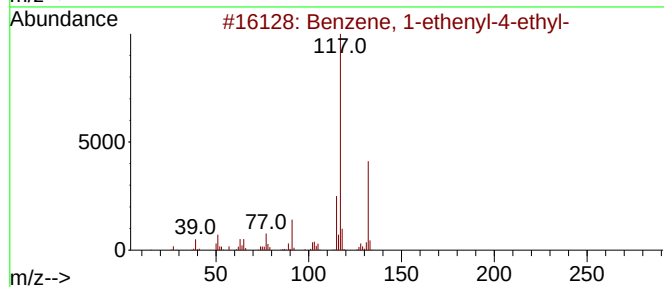
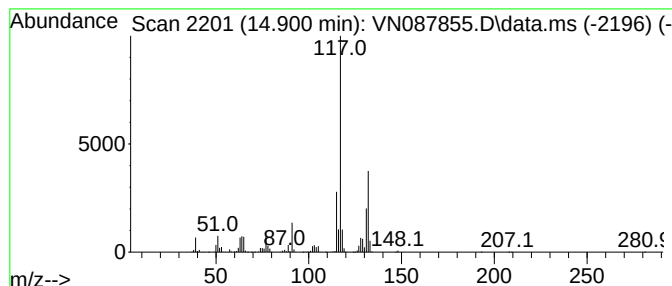
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Quant Title : SW846 8260

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

Peak Number 12 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.900	128.12 ug/l	4245100	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
2			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
3			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
4			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	92
5			3-Phenylbut-1-ene	132	C10H12	000934-10-1	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

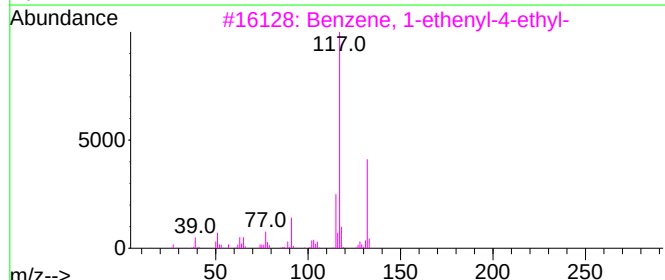
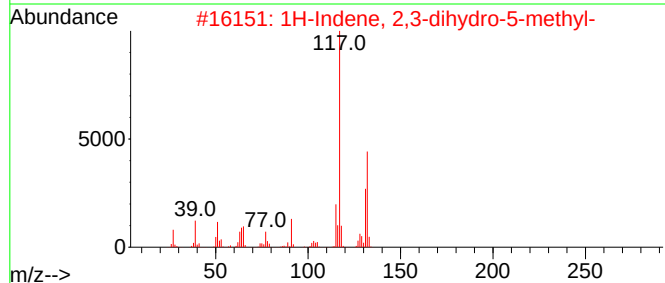
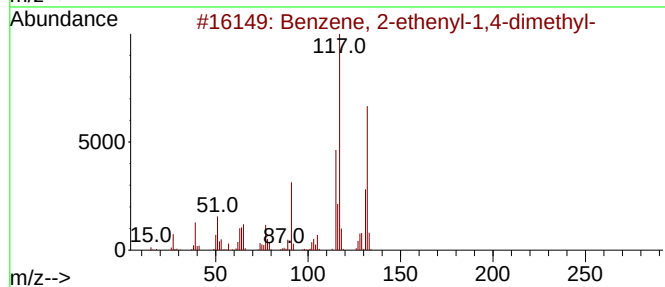
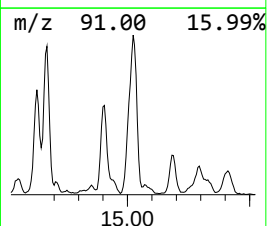
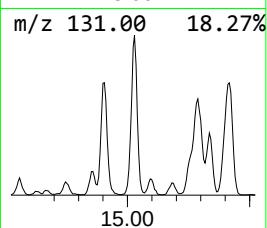
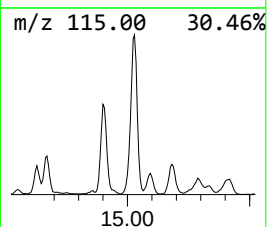
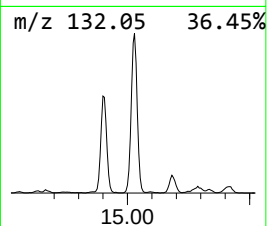
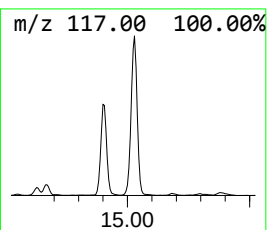
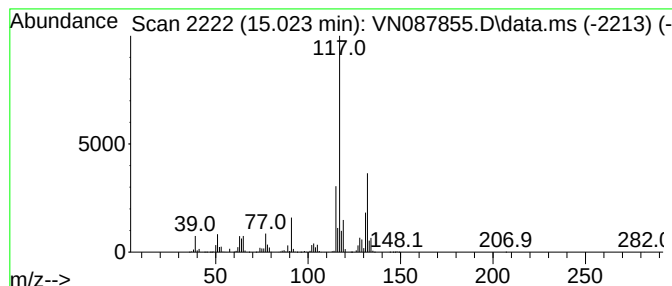
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Quant Title : SW846 8260

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

Peak Number 13 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.023	290.86 ug/l	9637100	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
3			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
4			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
5			1-Phenyl-1-butene	132	C10H12	000824-90-8	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

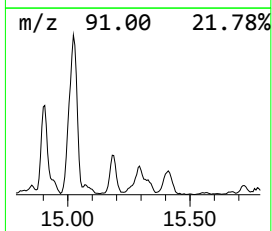
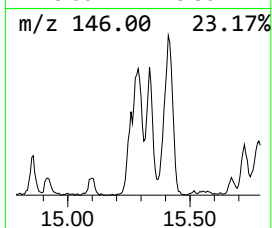
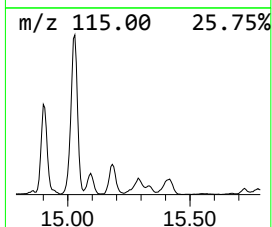
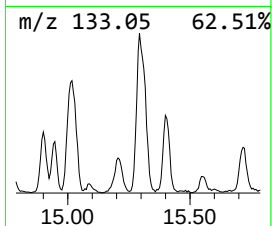
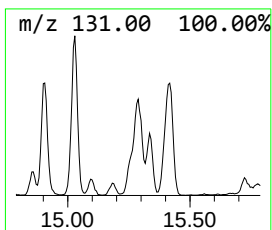
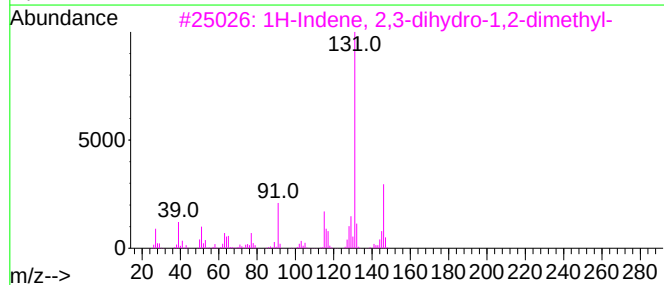
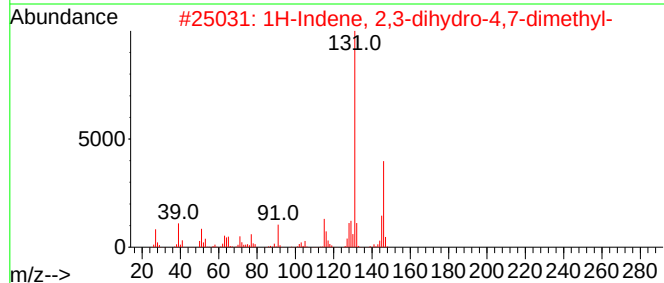
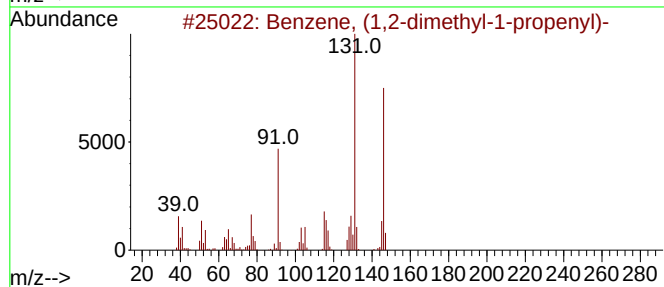
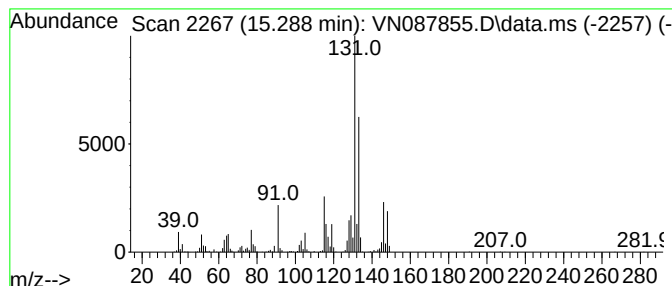
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260

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

Peak Number 14 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.288	57.49 ug/l	1904890	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	92
2			1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	86
3			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	83
4			2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	83
5			1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

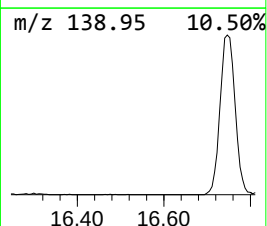
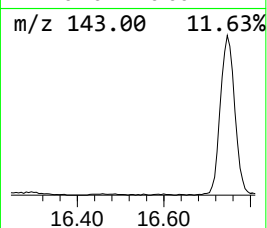
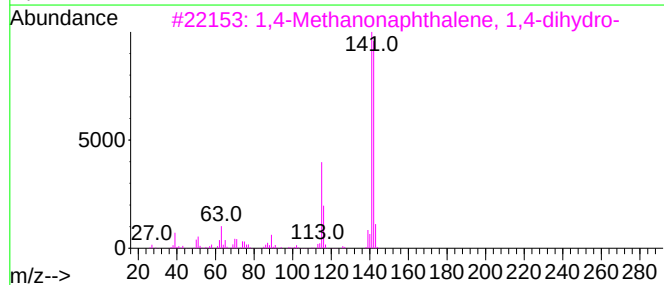
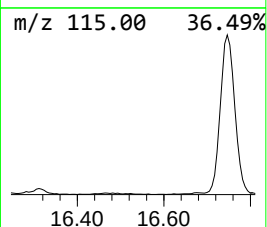
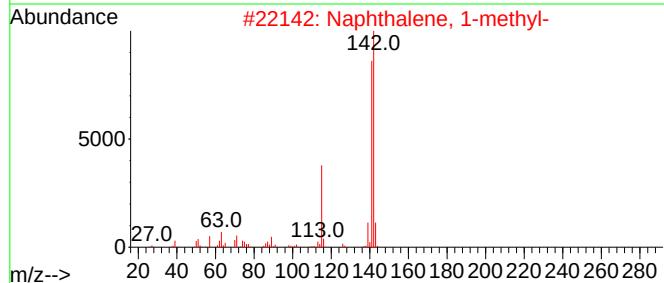
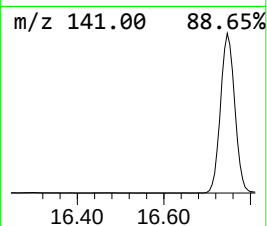
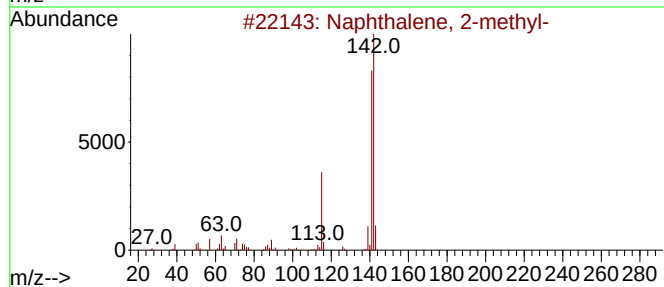
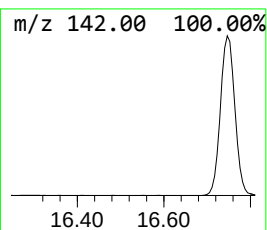
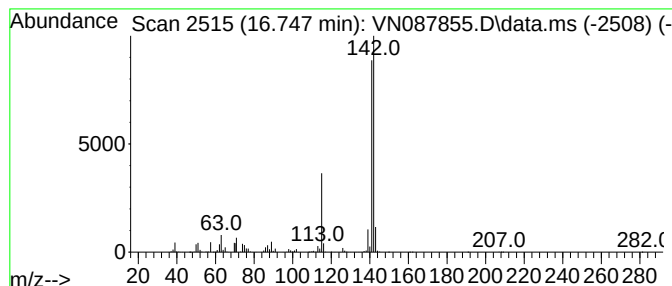
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Quant Title : SW846 8260

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

Peak Number 15 Naphthalene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.747	143.34 ug/l	4749180	1,4-Dichlorobenzene-d4	13.770

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2			Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3			1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
4			Benzocycloheptatriene	142	C11H10	000264-09-5	91
5			1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087855.D
Acq On : 16 Sep 2025 17:11
Operator : JC\MD
Sample : Q3109-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW1

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

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Pentane, 2-methyl-	5.330	60.6	ug/l	8564100	1	8.212	7068760	50.0
Cyclopentane, m...	7.312	72.0	ug/l	10184800	1	8.212	7068760	50.0
Benzene, 1-ethy...	13.312	90.2	ug/l	2989310	4	13.770	1656670	50.0
Benzene, 1,4-di...	13.929	61.5	ug/l	2038250	4	13.770	1656670	50.0
Indane	13.970	484.8	ug/l	16062600	4	13.770	1656670	50.0
Benzene, 2-ethy...	14.217	101.5	ug/l	3362820	4	13.770	1656670	50.0
Benzene, 4-ethy...	14.306	169.1	ug/l	5603130	4	13.770	1656670	50.0
Indan, 1-methyl-	14.423	139.8	ug/l	4632670	4	13.770	1656670	50.0
Benzene, 1,2,3,...	14.629	108.1	ug/l	3580820	4	13.770	1656670	50.0
Benzene, 1,2,4,...	14.670	134.0	ug/l	4440470	4	13.770	1656670	50.0
Benzene, 1-ethe...	14.900	128.1	ug/l	4245100	4	13.770	1656670	50.0
Benzene, 2-ethe...	15.023	290.9	ug/l	9637100	4	13.770	1656670	50.0
Benzene, (1,2-d...	15.288	57.5	ug/l	1904890	4	13.770	1656670	50.0
Naphthalene, 2-...	16.747	143.3	ug/l	4749180	4	13.770	1656670	50.0

Report of Analysis

Client:	G Environmental		Date Collected:	09/16/25	
Project:	Metuchen		Date Received:	09/16/25	
Client Sample ID:	MW1DL		SDG No.:	Q3109	
Lab Sample ID:	Q3109-02DL		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047606.D	20	09/17/25 10:57	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.40	UD	4.40	20.0	ug/L
74-87-3	Chloromethane	6.40	UD	6.40	20.0	ug/L
75-01-4	Vinyl Chloride	5.20	UD	5.20	20.0	ug/L
74-83-9	Bromomethane	28.8	UD	28.8	100	ug/L
75-00-3	Chloroethane	9.40	UD	9.40	20.0	ug/L
75-69-4	Trichlorofluoromethane	6.60	UD	6.60	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	UD	5.00	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.60	UD	4.60	20.0	ug/L
67-64-1	Acetone	30.2	UD	30.2	100	ug/L
75-15-0	Carbon Disulfide	4.20	UD	4.20	20.0	ug/L
1634-04-4	Methyl tert-butyl Ether	3.20	UD	3.20	20.0	ug/L
79-20-9	Methyl Acetate	5.40	UD	5.40	20.0	ug/L
75-09-2	Methylene Chloride	5.60	UD	5.60	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.60	UD	4.60	20.0	ug/L
75-34-3	1,1-Dichloroethane	4.60	UD	4.60	20.0	ug/L
110-82-7	Cyclohexane	280	D	29.0	100	ug/L
78-93-3	2-Butanone	19.6	UD	19.6	100	ug/L
56-23-5	Carbon Tetrachloride	5.00	UD	5.00	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.80	UD	3.80	20.0	ug/L
74-97-5	Bromochloromethane	4.40	UD	4.40	20.0	ug/L
67-66-3	Chloroform	5.00	UD	5.00	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	UD	4.00	20.0	ug/L
108-87-2	Methylcyclohexane	120	D	3.20	20.0	ug/L
71-43-2	Benzene	11.6	JD	3.00	20.0	ug/L
107-06-2	1,2-Dichloroethane	4.40	UD	4.40	20.0	ug/L
79-01-6	Trichloroethene	1.90	UD	1.90	20.0	ug/L
78-87-5	1,2-Dichloropropane	4.00	UD	4.00	20.0	ug/L
75-27-4	Bromodichloromethane	4.40	UD	4.40	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	13.6	UD	13.6	100	ug/L
108-88-3	Toluene	5.00	JD	2.80	20.0	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	09/16/25	
Project:	Metuchen		Date Received:	09/16/25	
Client Sample ID:	MW1DL		SDG No.:	Q3109	
Lab Sample ID:	Q3109-02DL		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047606.D	20	09/17/25 10:57	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	3.40	UD	3.40	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.20	UD	3.20	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	4.20	UD	4.20	20.0	ug/L
591-78-6	2-Hexanone	17.8	UD	17.8	100	ug/L
124-48-1	Dibromochloromethane	3.60	UD	3.60	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.00	UD	3.00	20.0	ug/L
127-18-4	Tetrachloroethene	4.60	UD	4.60	20.0	ug/L
108-90-7	Chlorobenzene	2.40	UD	2.40	20.0	ug/L
100-41-4	Ethyl Benzene	1600	D	2.60	20.0	ug/L
179601-23-1	m/p-Xylenes	74.1	D	4.80	40.0	ug/L
95-47-6	o-Xylene	13.8	JD	2.40	20.0	ug/L
100-42-5	Styrene	3.00	UD	3.00	20.0	ug/L
75-25-2	Bromoform	3.80	UD	3.80	20.0	ug/L
98-82-8	Isopropylbenzene	79.2	D	2.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5.20	UD	5.20	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.20	UD	3.20	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	UD	3.80	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.20	UD	3.20	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	10.6	UD	10.6	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.00	UD	4.00	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	4.00	UD	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.5		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	44.6		75 - 124	89%	SPK: 50
2037-26-5	Toluene-d8	46.6		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		77 - 121	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	157000	5.543			
540-36-3	1,4-Difluorobenzene	317000	6.751			
3114-55-4	Chlorobenzene-d5	305000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	149000	12.006			

Report of Analysis

Client:	G Environmental		Date Collected:	09/16/25	
Project:	Metuchen		Date Received:	09/16/25	
Client Sample ID:	MW1DL		SDG No.:	Q3109	
Lab Sample ID:	Q3109-02DL		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047606.D	20	09/17/25 10:57	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047606.D
 Acq On : 17 Sep 2025 10:57
 Operator : JC/MD
 Sample : Q3109-02DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW1DL

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/18/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 02:01:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.543	168	157331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	316909	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	305419	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	148891	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	116538	46.535	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	93.060%		
35) Dibromofluoromethane	5.373	113	94748	44.580	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.160%		
50) Toluene-d8	8.634	98	342453	46.566	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	93.140%		
62) 4-Bromofluorobenzene	11.061	95	143886	51.553	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.100%		
Target Compounds					Qvalue	
31) Cyclohexane	5.458	56	45942	13.883	ug/l	96
39) Methylcyclohexane	7.366	83	21113	5.989	ug/l	94
40) Benzene	6.031	78	5483	0.581	ug/l	93
52) Toluene	8.708	92	1449	0.249	ug/l	85
67) Ethyl Benzene	10.177	91	949108	79.278	ug/l	100
68) m/p-Xylenes	10.287	106	16520	3.707	ug/l	99
69) o-Xylene	10.628	106	2964	0.688	ug/l	91
73) Isopropylbenzene	10.945	105	44822	3.960	ug/l	99
78) n-propylbenzene	11.286	91	152586	11.403	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	5939m	0.639	ug/l	
84) 1,2,4-Trimethylbenzene	11.731	105	362169	38.411	ug/l	100
85) sec-Butylbenzene	11.872	105	8507m	0.752	ug/l	
86) p-Isopropyltoluene	11.994	119	5044	0.527	ug/l	90
89) n-Butylbenzene	12.317	91	13619	1.537	ug/l #	75
95) Naphthalene	13.755	128	238753	24.454	ug/l	99

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

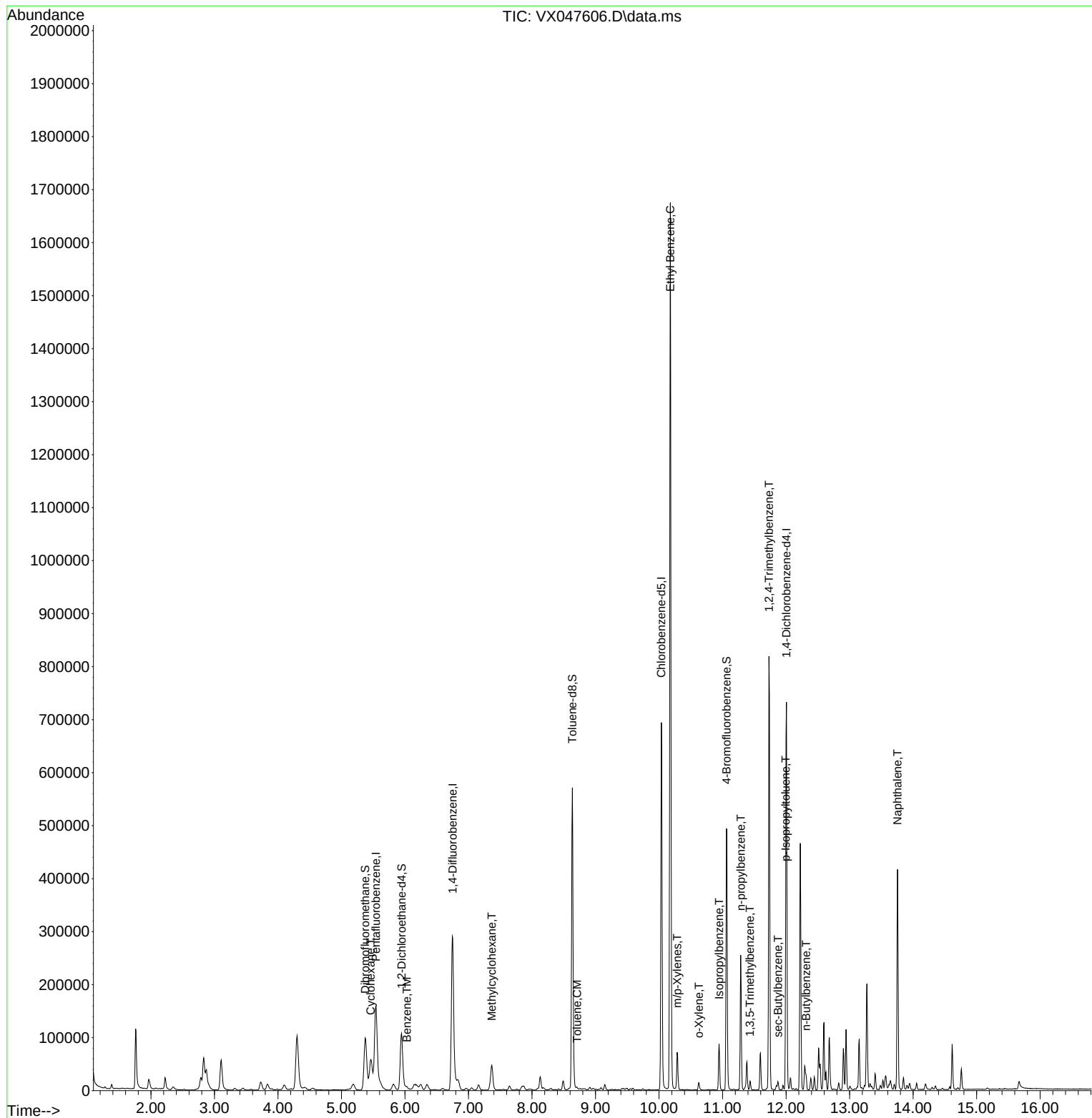
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Operator : JC/MD
Sample : Q3109-02DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

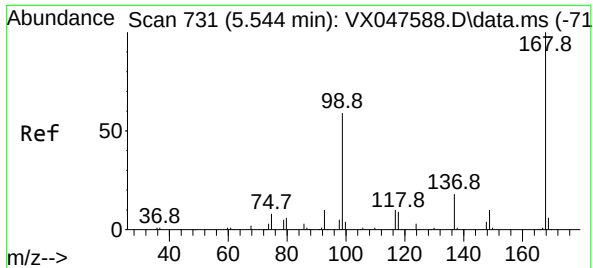
Instrument :
MSVOA_X
ClientSampleId :
MW1DL

Manual Integrations
APPROVED

Reviewed By : John Carlone 09/18/2025
Supervised By : Mahesh Dadoda 09/18/2025

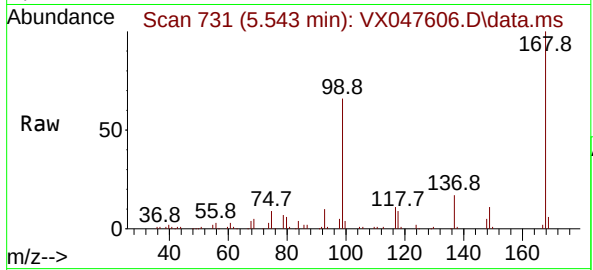
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 717
Delta R.T. -0.001 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

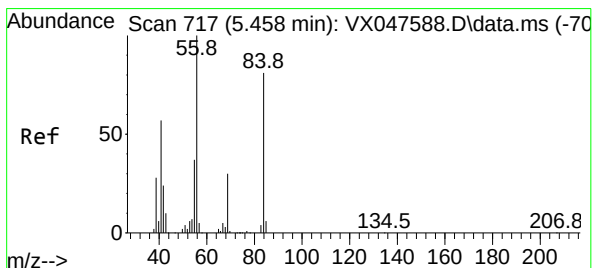
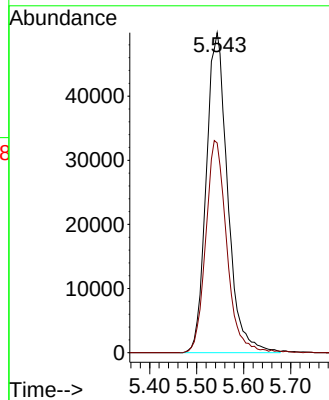
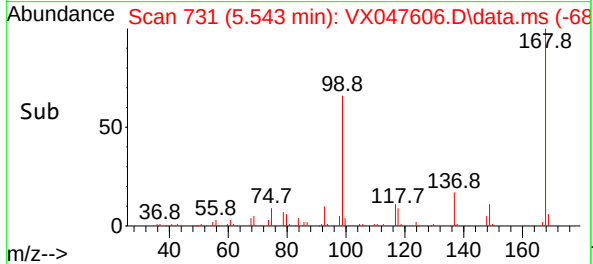
Instrument :
MSVOA_X
ClientSampleId :
MW1DL



Tgt Ion:168 Resp: 15733
Ion Ratio Lower Upper
168 100
99 65.6 48.8 73.2

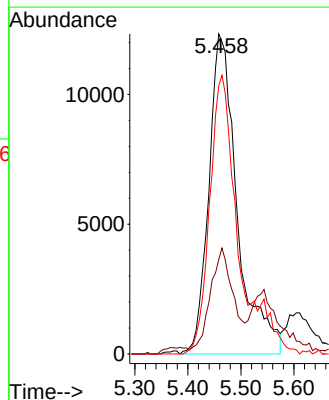
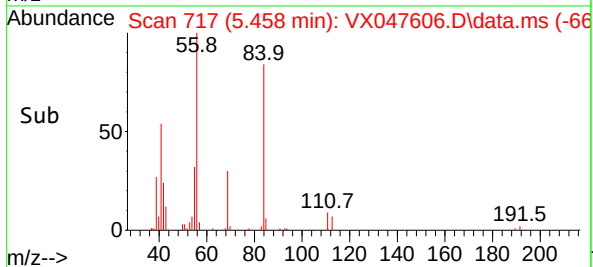
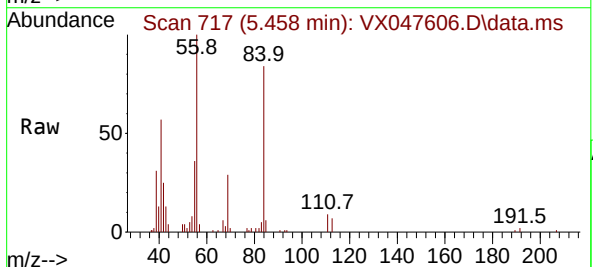
Manual Integrations
APPROVED

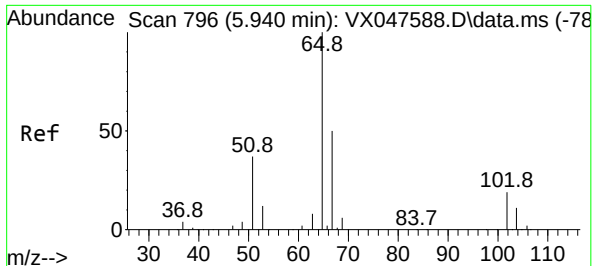
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025



#31
Cyclohexane
Concen: 13.883 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

Tgt Ion: 56 Resp: 45942
Ion Ratio Lower Upper
56 100
69 27.5 23.8 35.8
84 83.8 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 46.535 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047606.D

Acq: 17 Sep 2025 10:57

Instrument :

MSVOA_X

ClientSampleId :

MW1DL

Tgt Ion: 65 Resp: 116538

Ion Ratio Lower Upper

65 100

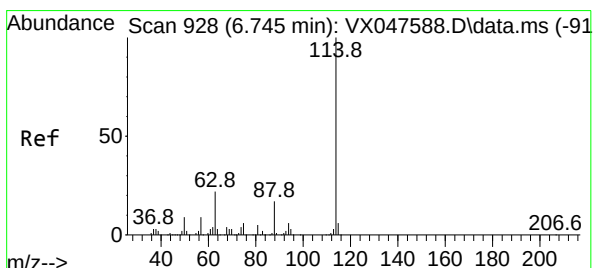
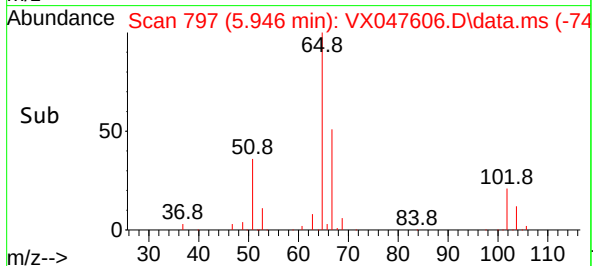
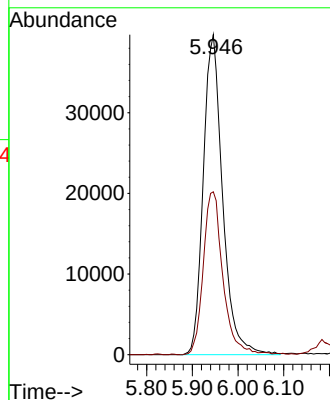
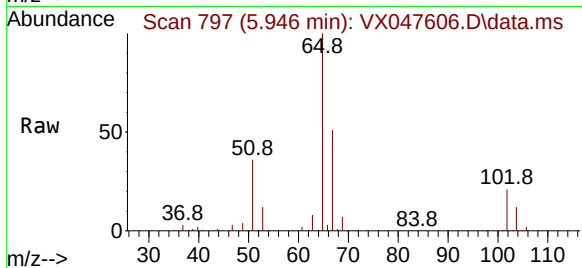
67 51.4 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047606.D

Acq: 17 Sep 2025 10:57

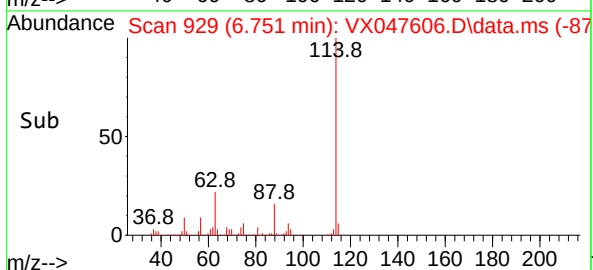
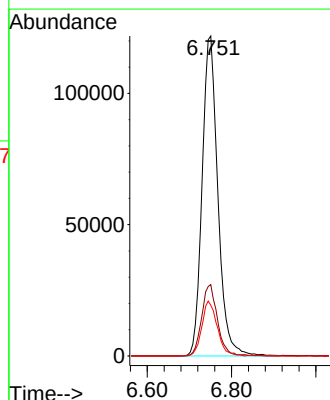
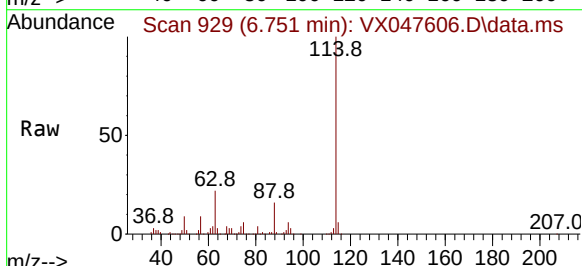
Tgt Ion:114 Resp: 316909

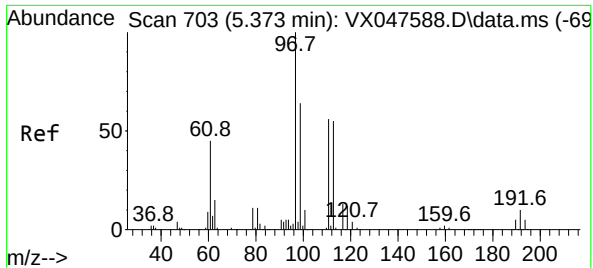
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 15.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 44.580 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047606.D

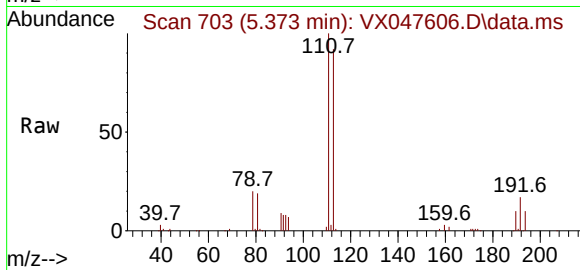
Acq: 17 Sep 2025 10:57

Instrument :

MSVOA_X

ClientSampleId :

MW1DL



Tgt Ion:113 Resp: 9474

Ion Ratio Lower Upper

113 100

111 102.8 80.9 121.3

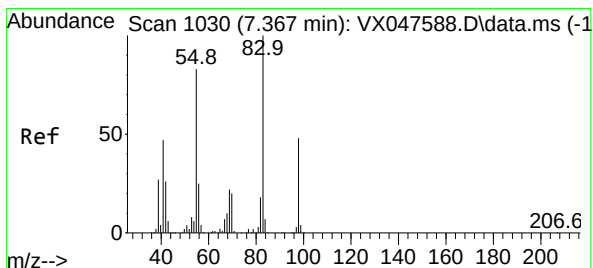
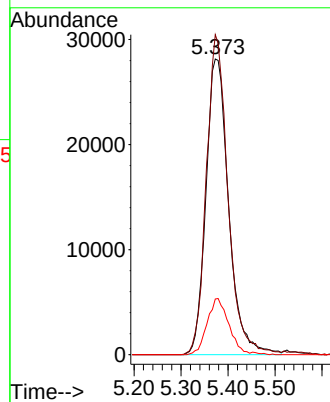
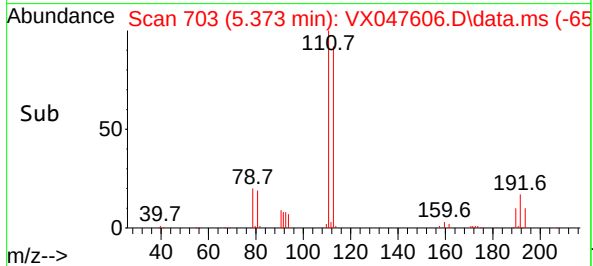
192 18.3 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#39

Methylcyclohexane

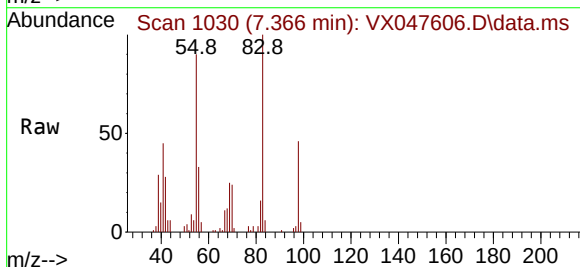
Concen: 5.989 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047606.D

Acq: 17 Sep 2025 10:57



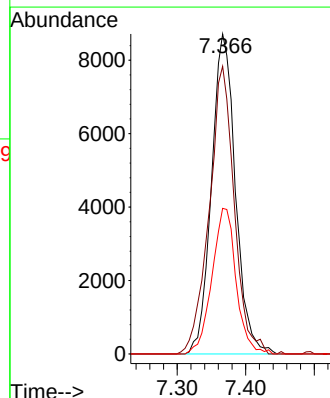
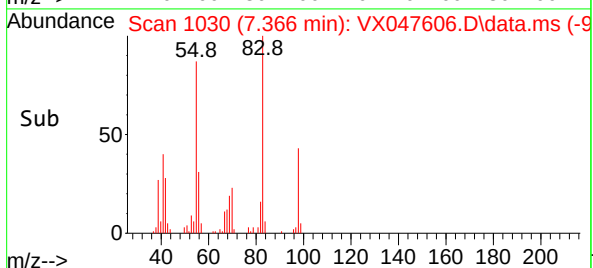
Tgt Ion: 83 Resp: 21113

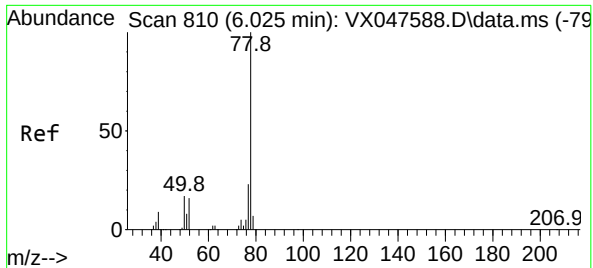
Ion Ratio Lower Upper

83 100

55 89.2 66.4 99.6

98 45.5 38.1 57.1





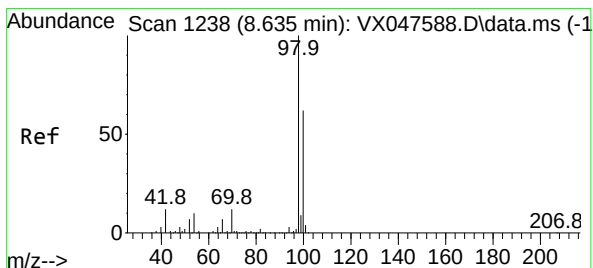
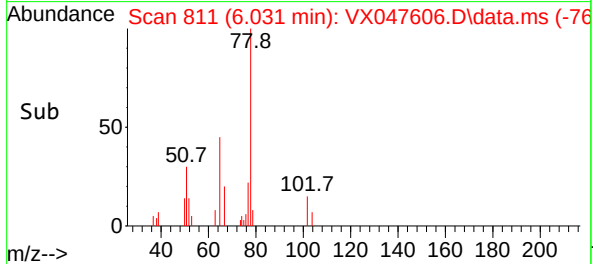
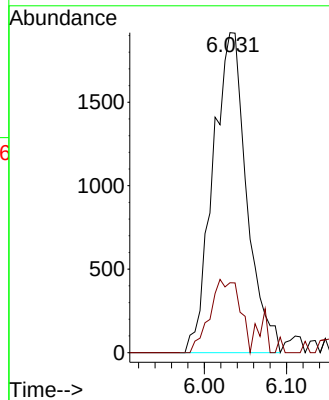
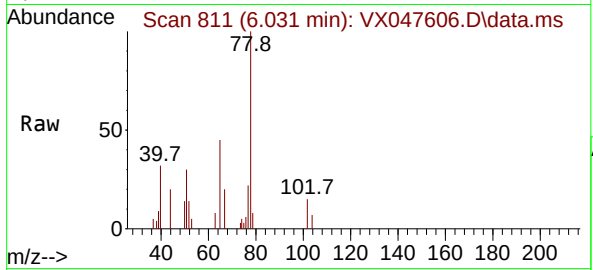
#40
Benzene
Concen: 0.581 ug/l
RT: 6.031 min Scan# 810
Delta R.T. 0.006 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
MW1DL

Tgt Ion: 78 Resp: 548
Ion Ratio Lower Upper
78 100
77 20.2 18.8 28.2

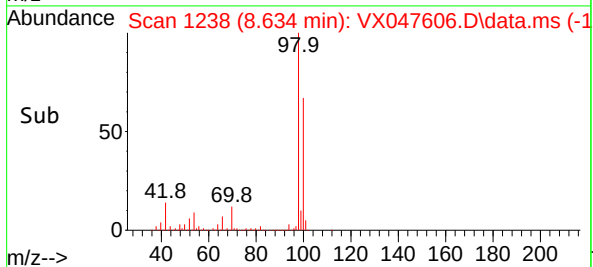
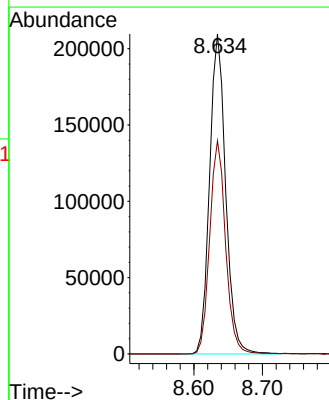
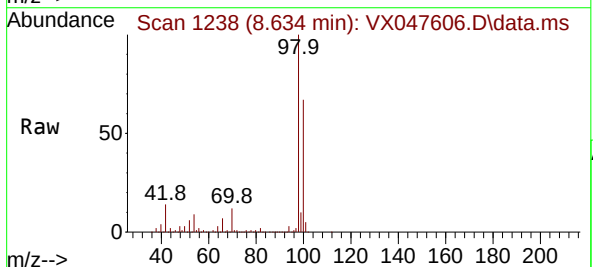
Manual Integrations
APPROVED

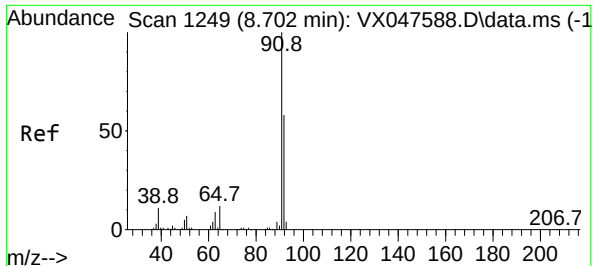
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025



#50
Toluene-d8
Concen: 46.566 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

Tgt Ion: 98 Resp: 342453
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.4





#52

Toluene

Concen: 0.249 ug/l

RT: 8.708 min Scan# 1249

Delta R.T. 0.006 min

Lab File: VX047606.D

Acq: 17 Sep 2025 10:57

Instrument :

MSVOA_X

ClientSampleId :

MW1DL

Tgt Ion: 92 Resp: 1449

Ion Ratio Lower Upper

92 100

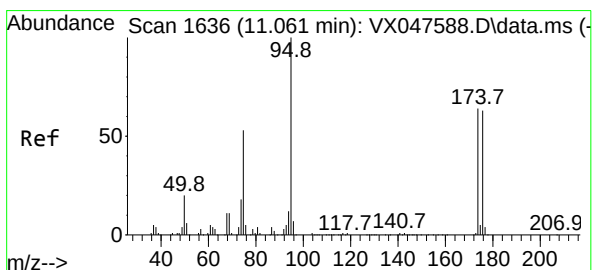
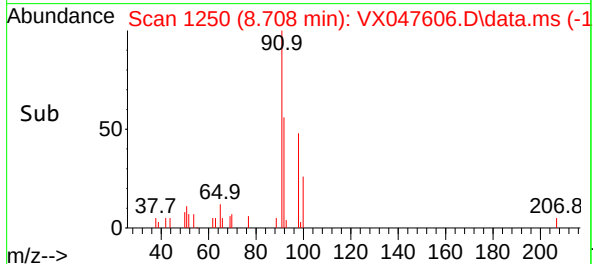
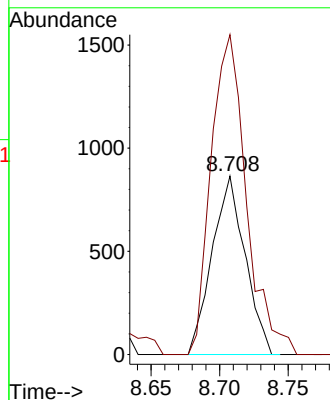
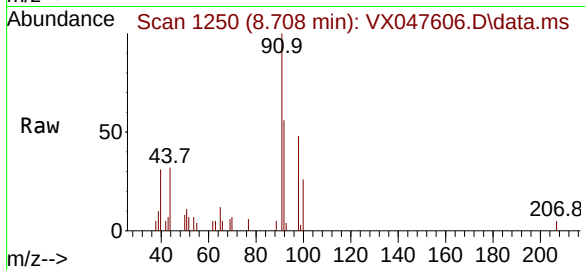
91 191.9 137.1 205.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#62

4-Bromofluorobenzene

Concen: 51.553 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX047606.D

Acq: 17 Sep 2025 10:57

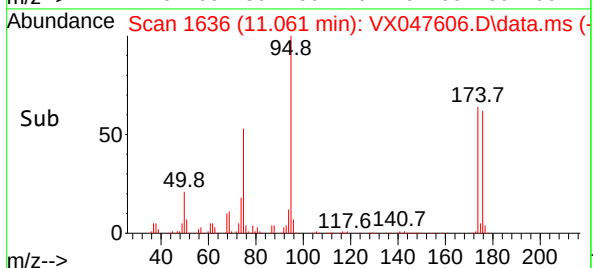
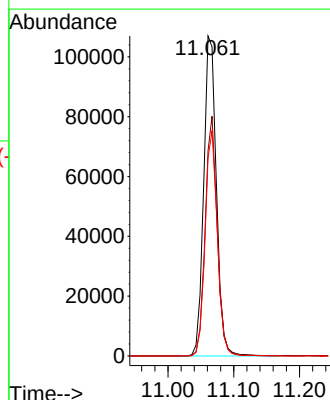
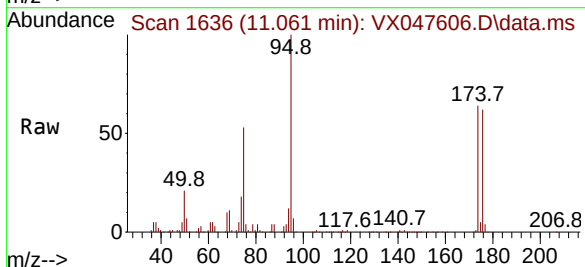
Tgt Ion: 95 Resp: 143886

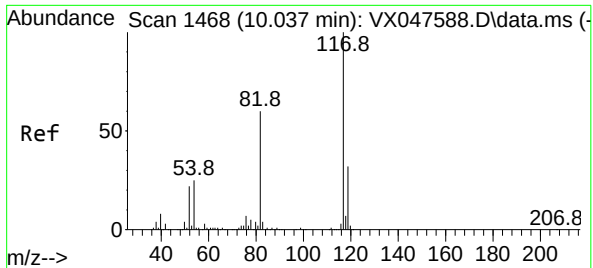
Ion Ratio Lower Upper

95 100

174 70.5 0.0 141.6

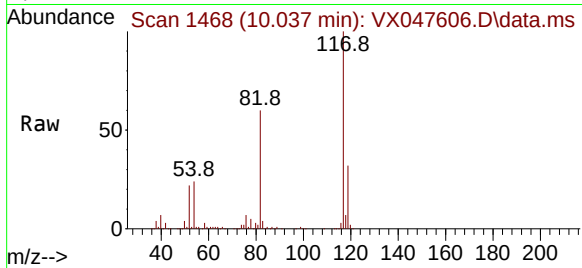
176 67.5 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

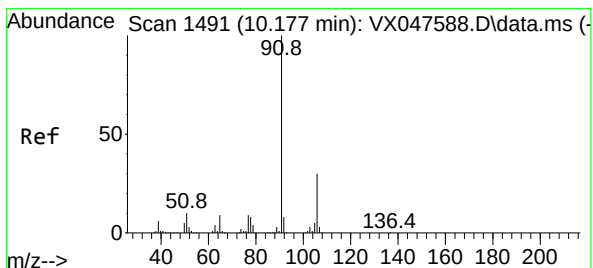
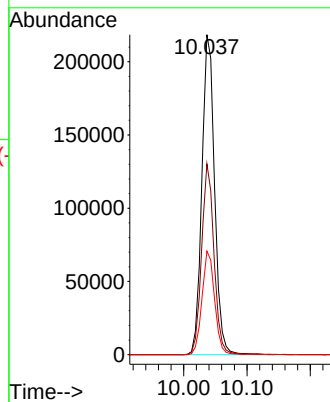
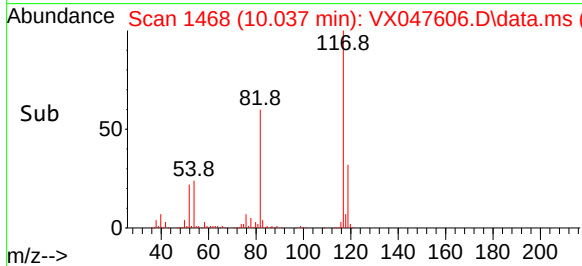
Instrument :
MSVOA_X
ClientSampleId :
MW1DL



Tgt Ion: 117 Resp: 305419
Ion Ratio Lower Upper
117 100
82 59.6 47.8 71.6
119 32.4 25.2 37.8

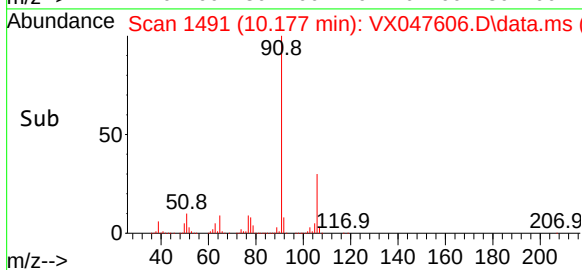
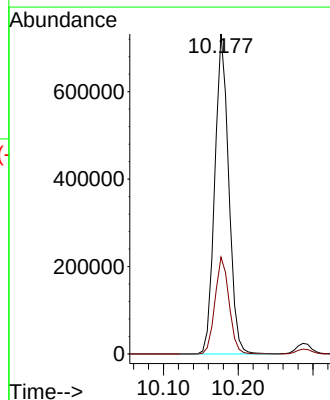
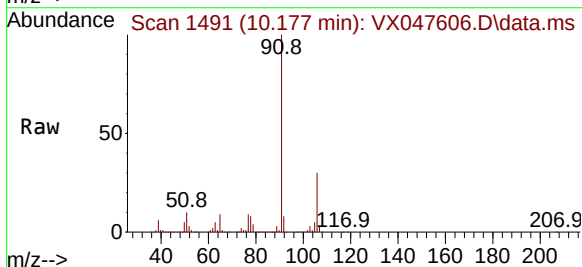
Manual Integrations
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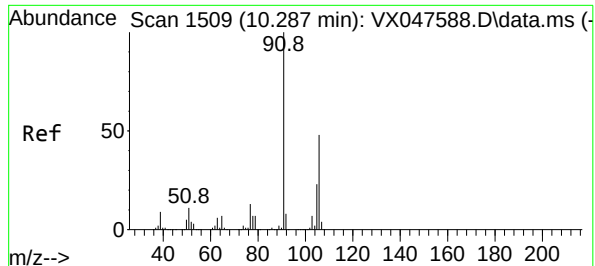
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025



#67
Ethyl Benzene
Concen: 79.278 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

Tgt Ion: 91 Resp: 949108
Ion Ratio Lower Upper
91 100
106 30.3 24.3 36.5





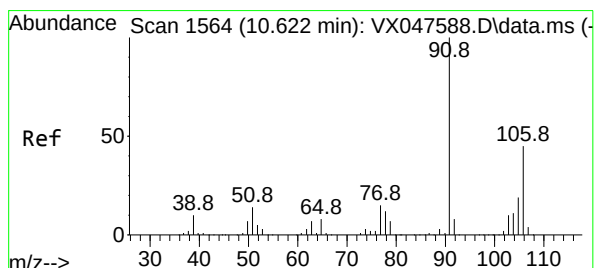
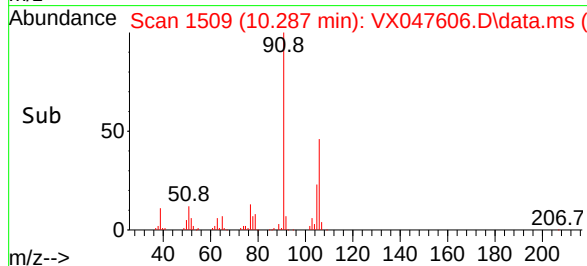
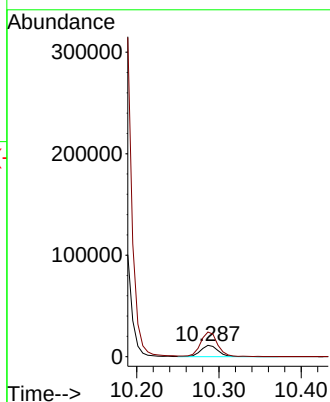
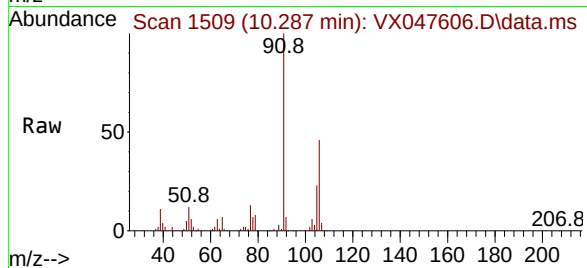
#68
m/p-Xylenes
Concen: 3.707 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
MW1DL

Tgt Ion:106 Resp: 16520
Ion Ratio Lower Upper
106 100
91 211.3 167.8 251.8

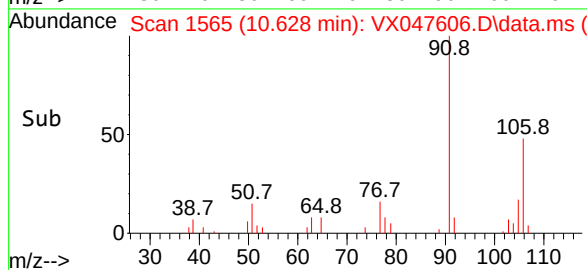
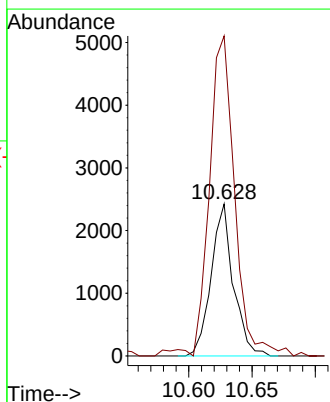
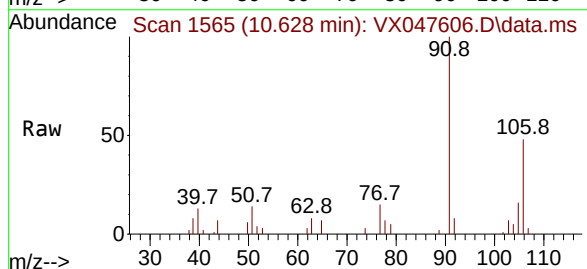
Manual Integrations
APPROVED

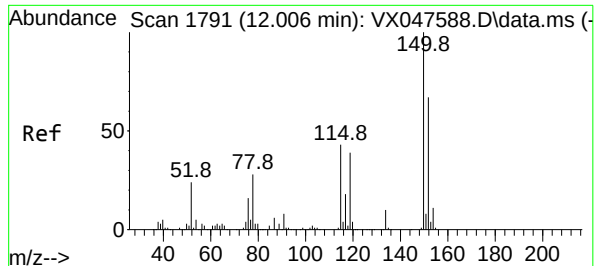
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025



#69
o-Xylene
Concen: 0.688 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

Tgt Ion:106 Resp: 2964
Ion Ratio Lower Upper
106 100
91 237.0 111.1 333.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047606.D

Acq: 17 Sep 2025 10:57

Instrument :

MSVOA_X

ClientSampleId :

MW1DL

Tgt Ion:152 Resp: 14889

Ion Ratio Lower Upper

152 100

115 63.3 44.9 134.5

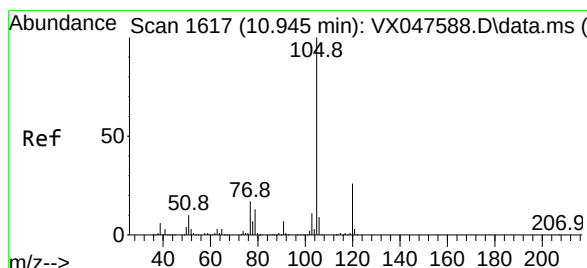
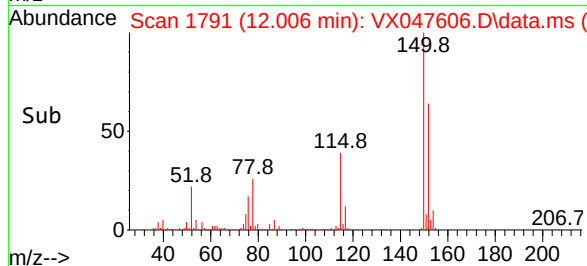
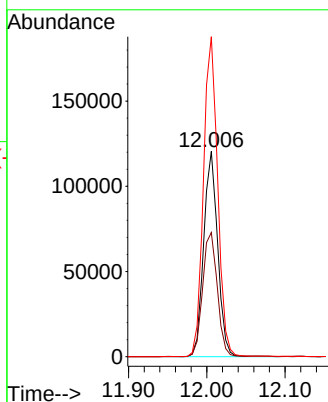
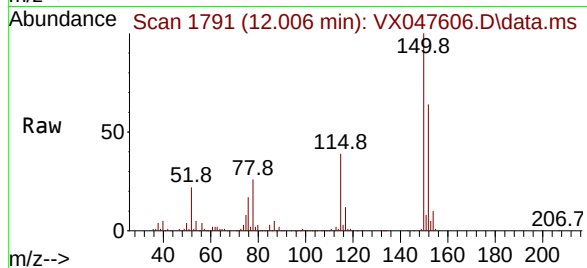
150 158.9 0.0 352.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/18/2025

Supervised By :Mahesh Dadoda 09/18/2025



#73

Isopropylbenzene

Concen: 3.960 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX047606.D

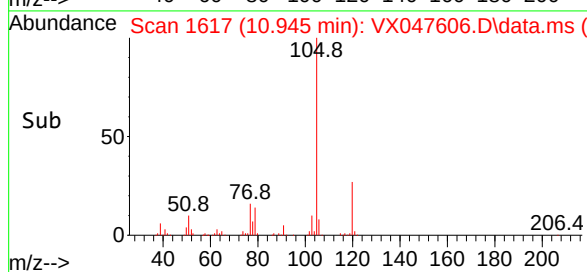
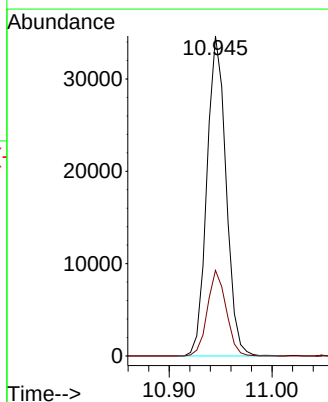
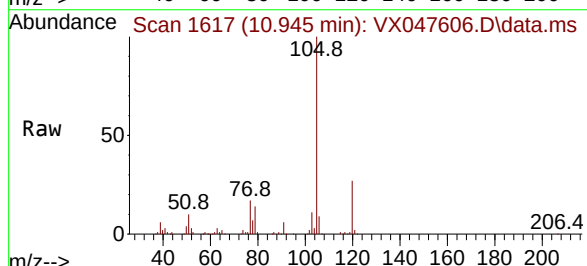
Acq: 17 Sep 2025 10:57

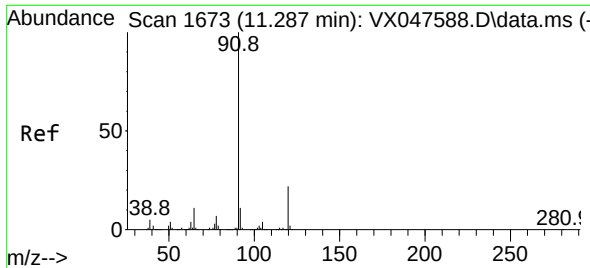
Tgt Ion:105 Resp: 44822

Ion Ratio Lower Upper

105 100

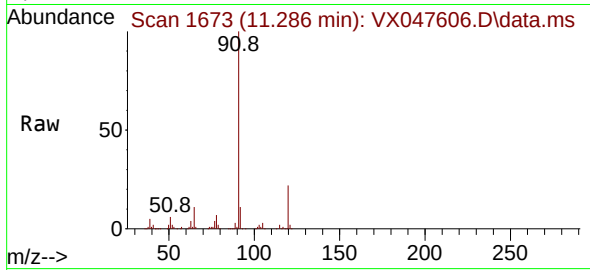
120 26.1 12.8 38.4





#78
n-propylbenzene
Concen: 11.403 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

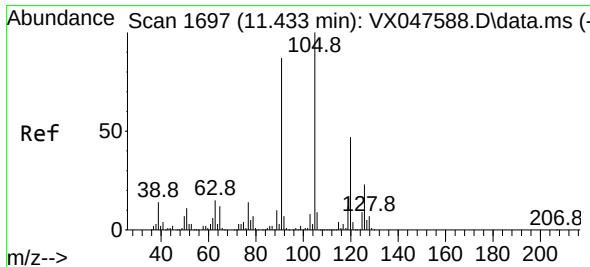
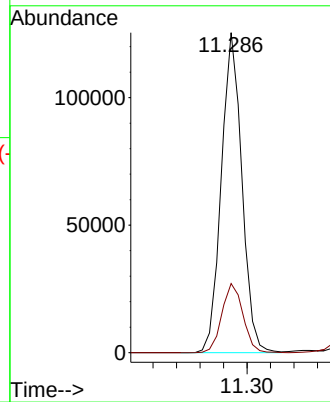
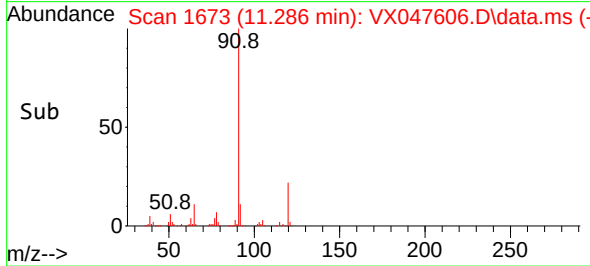
Instrument :
MSVOA_X
ClientSampleId :
MW1DL



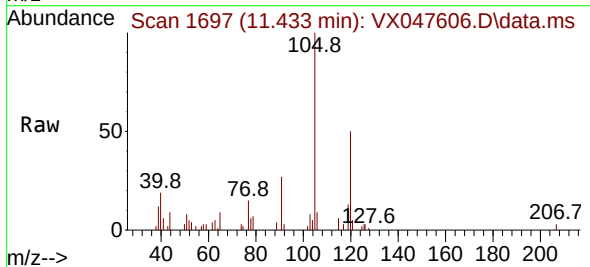
Tgt Ion: 91 Resp: 152586
Ion Ratio Lower Upper
91 100
120 22.2 11.1 33.1

Manual Integrations
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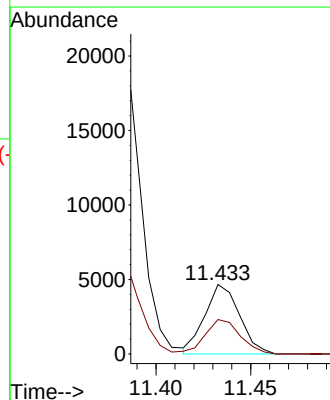
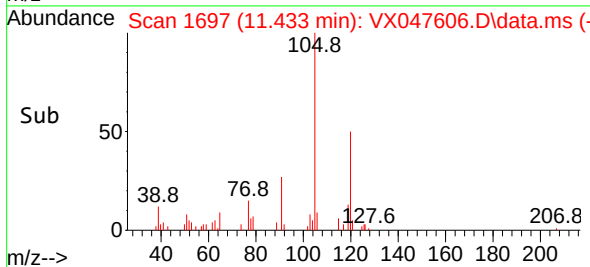
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025

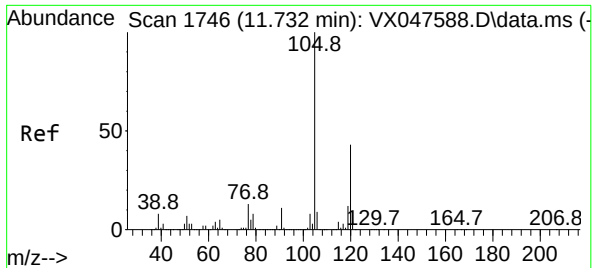


#80
1,3,5-Trimethylbenzene
Concen: 0.639 ug/l m
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57



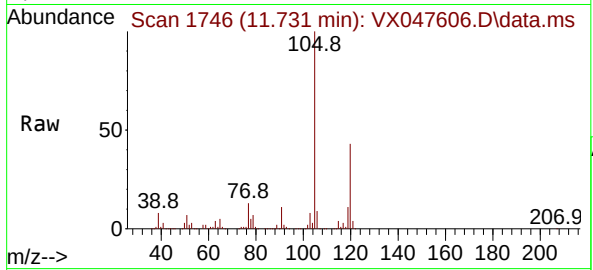
Tgt Ion:105 Resp: 5939
Ion Ratio Lower Upper
105 100
120 146.5 23.6 70.8#





#84
1,2,4-Trimethylbenzene
Concen: 38.411 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

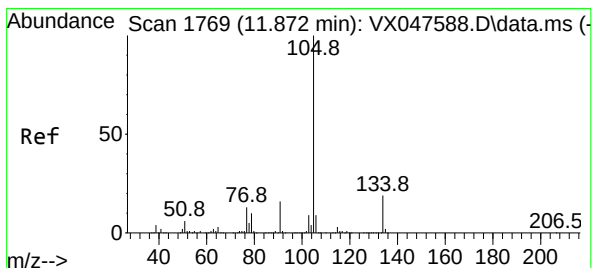
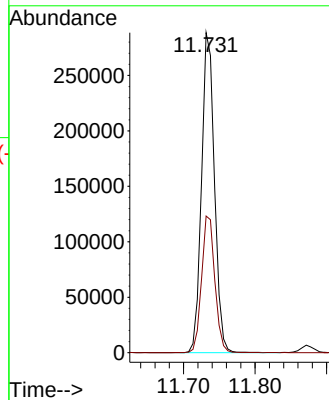
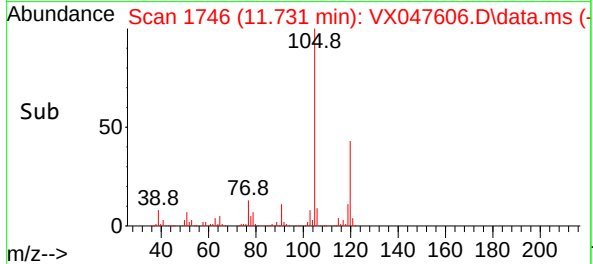
Instrument :
MSVOA_X
ClientSampleId :
MW1DL



Tgt Ion:105 Resp: 362169
Ion Ratio Lower Upper
105 100
120 43.9 22.1 66.1

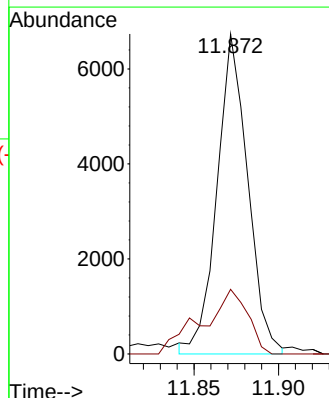
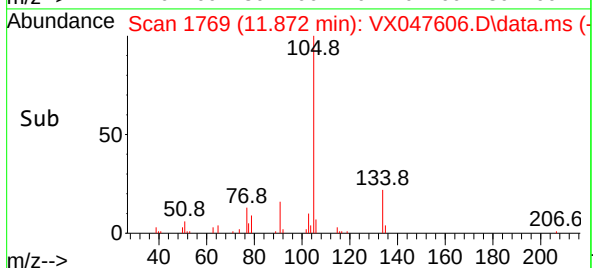
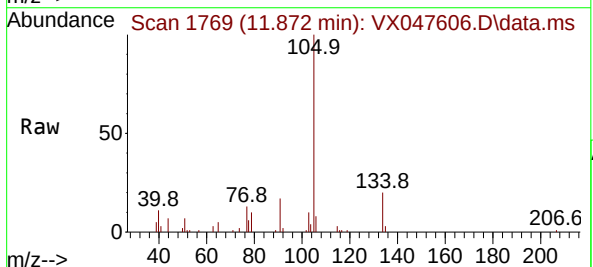
Manual Integrations
APPROVED

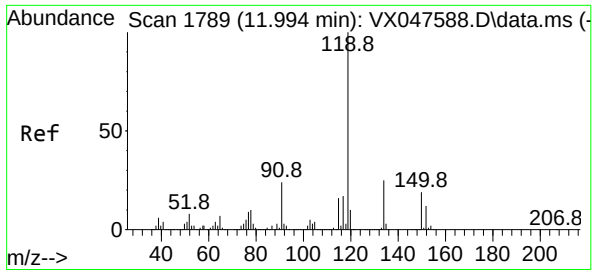
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025



#85
sec-Butylbenzene
Concen: 0.752 ug/l m
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

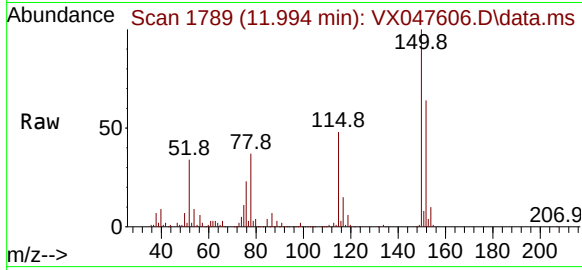
Tgt Ion:105 Resp: 8507
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.5#





#86
p-Isopropyltoluene
Concen: 0.527 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

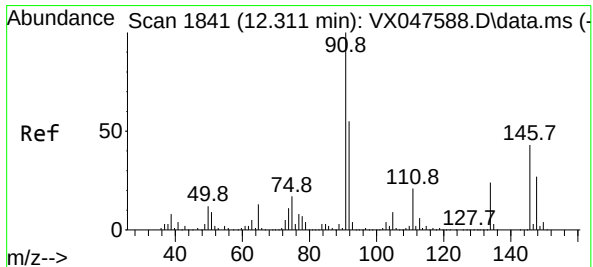
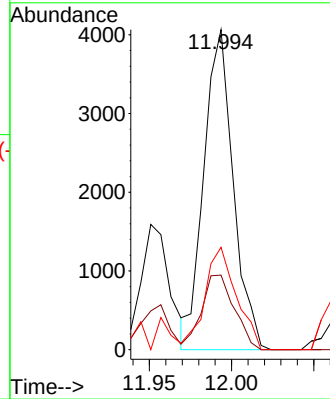
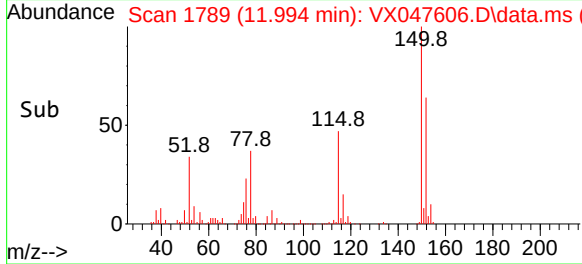
Instrument :
MSVOA_X
ClientSampleId :
MW1DL



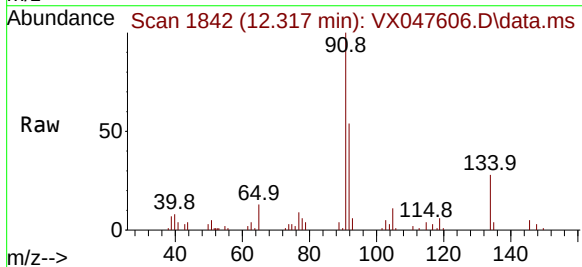
Tgt Ion: 119 Resp: 5044
Ion Ratio Lower Upper
119 100
134 26.1 12.6 37.8
91 34.4 12.6 37.6

Manual Integrations
APPROVED

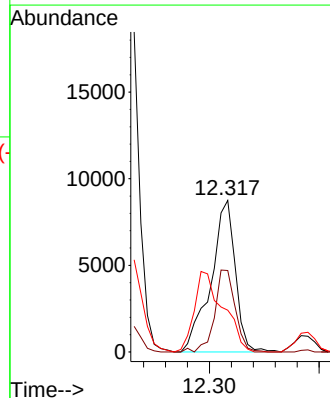
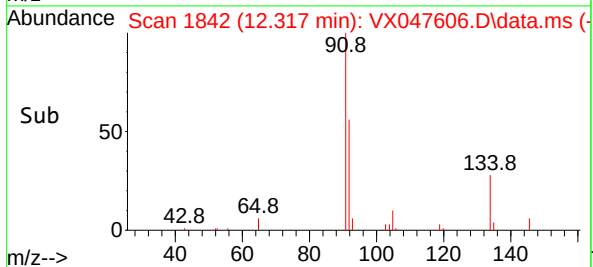
Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025

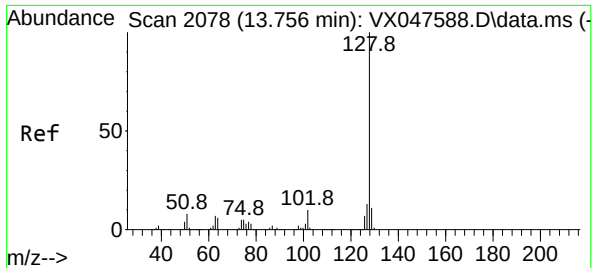


#89
n-Butylbenzene
Concen: 1.537 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57



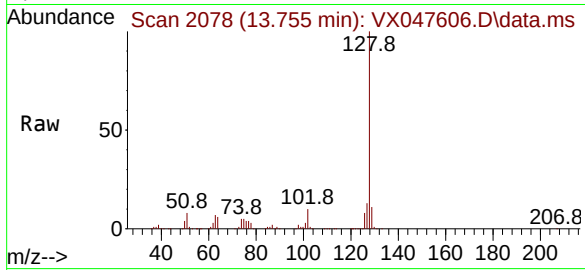
Tgt Ion: 91 Resp: 13619
Ion Ratio Lower Upper
91 100
92 45.2 27.6 82.7
134 0.0 12.6 37.8#





#95
Naphthalene
Concen: 24.454 ug/l
RT: 13.755 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047606.D
Acq: 17 Sep 2025 10:57

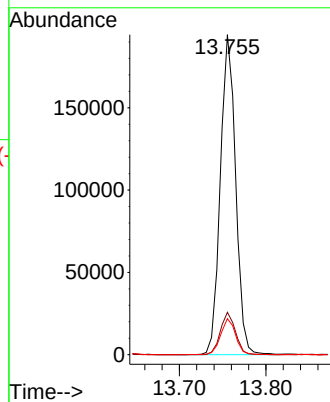
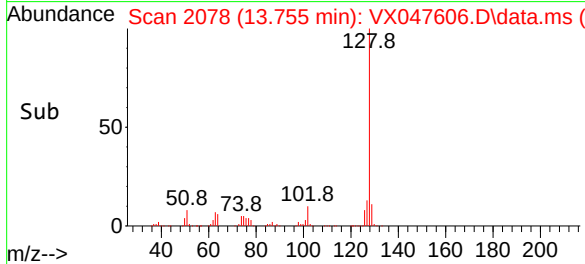
Instrument :
MSVOA_X
ClientSampleId :
MW1DL



Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.1	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025





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.: Q3109
 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.: Q3109
 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

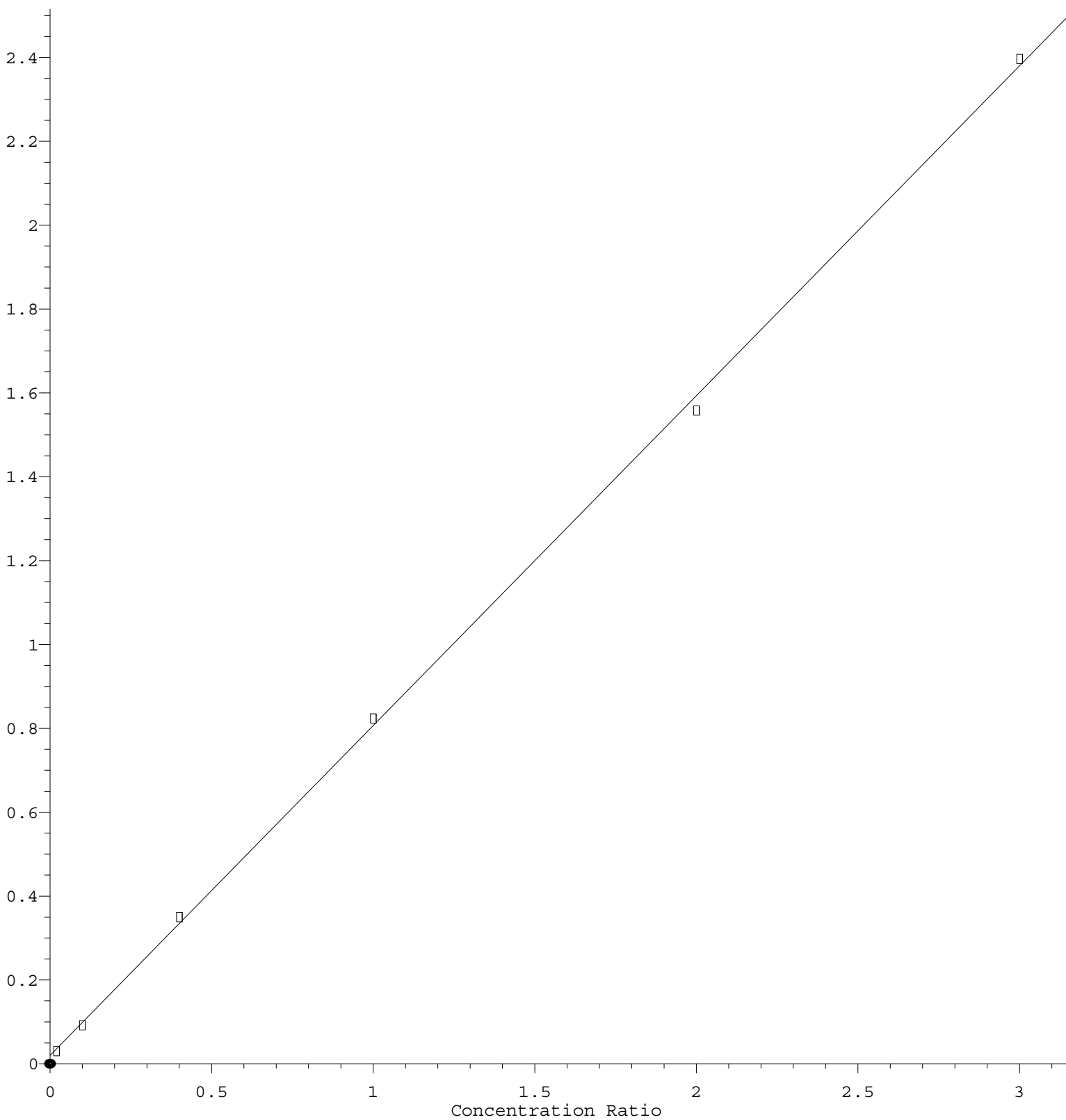
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N082125W.M

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



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

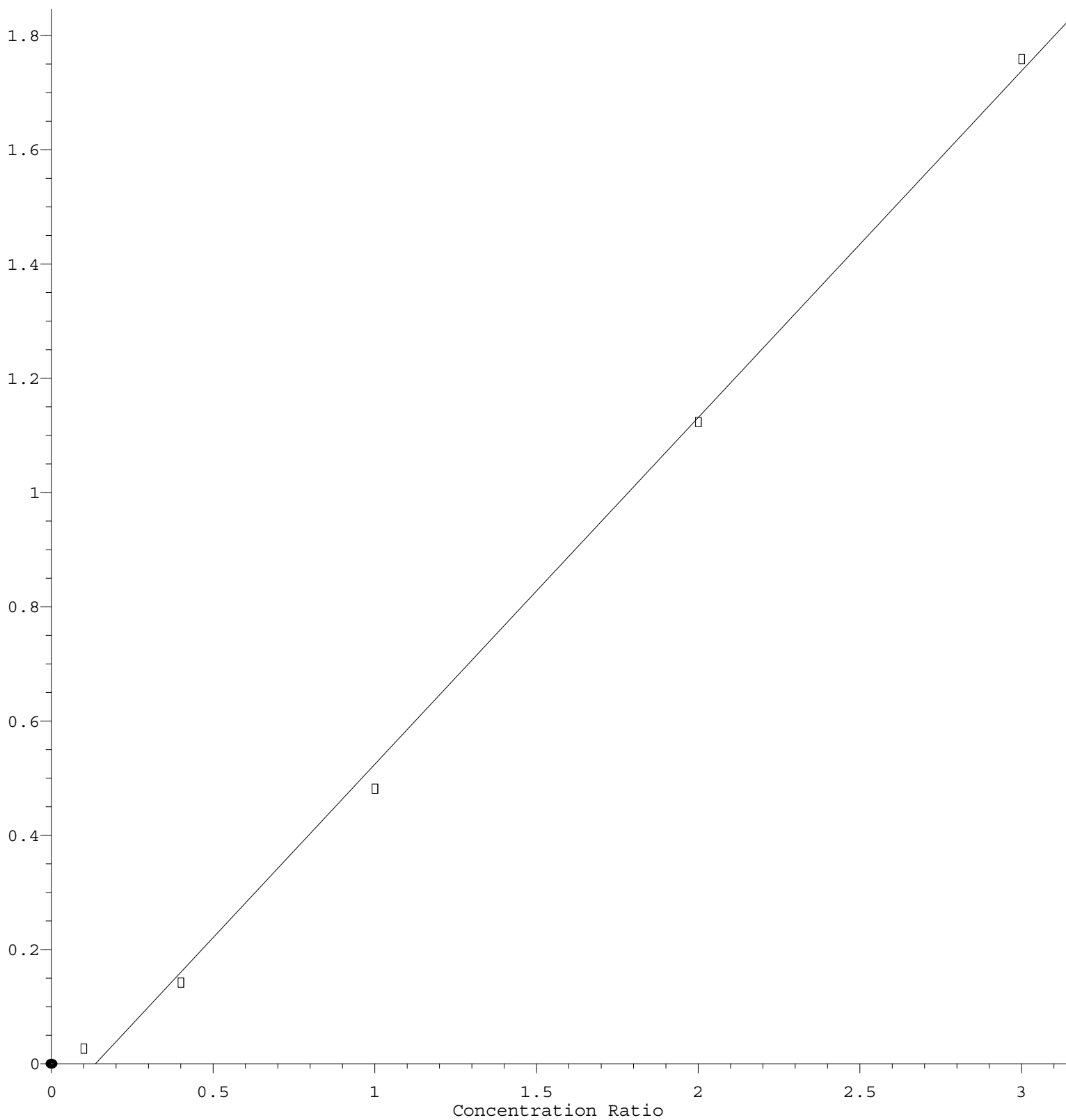
Coef of Det (r^2) = 0.999518 Curve Fit: Linear

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

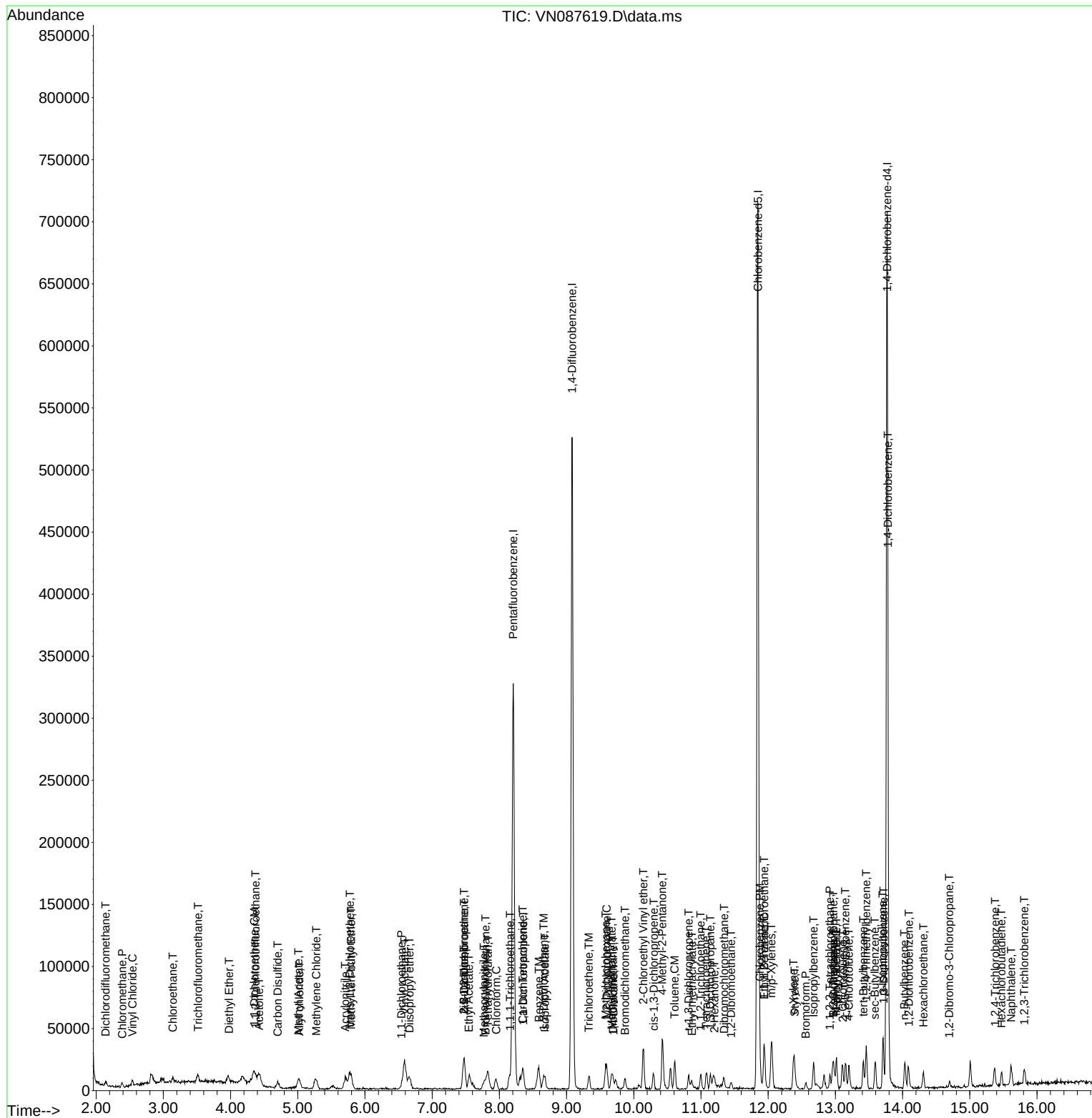
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087619.D  
Acq On    : 21 Aug 2025  12:09  
Operator  : JC\MD  
Sample    : VSTDICC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
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Instrument :
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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

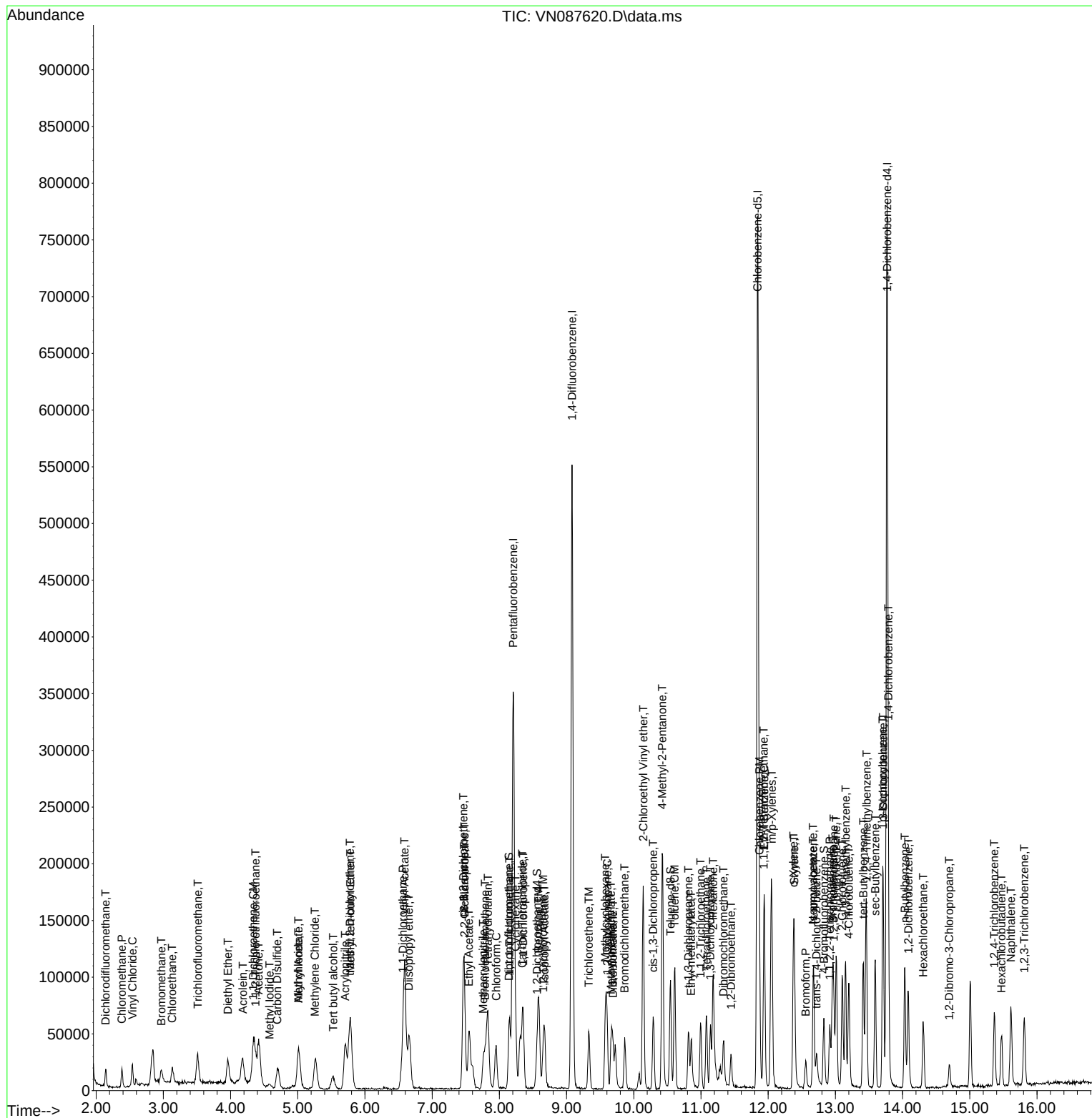
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087620.D  
Acq On    : 21 Aug 2025   13:08  
Operator  : JC\MD  
Sample    : VSTDIC005  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 8    Sample Multiplier: 1
```

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

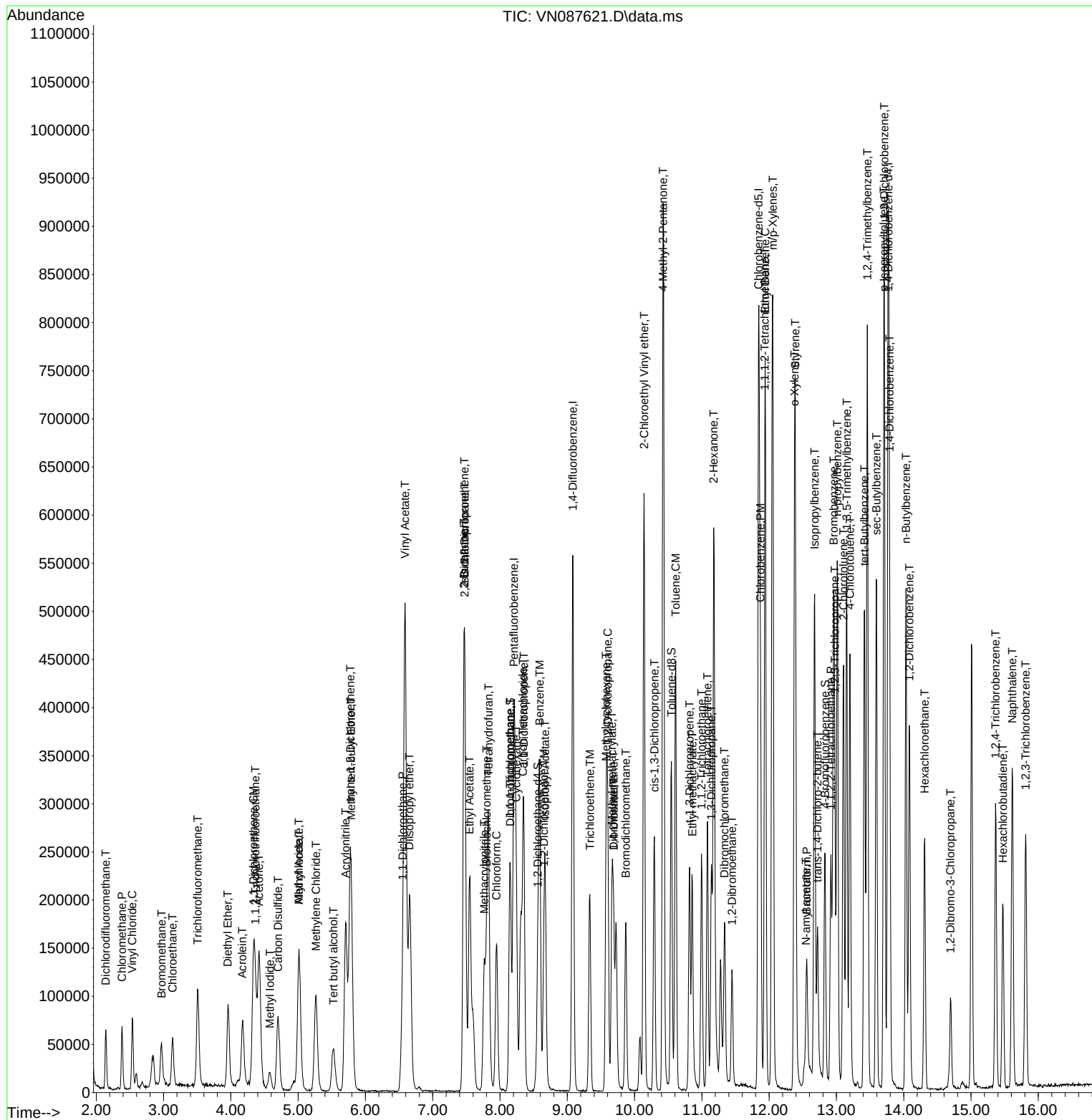
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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

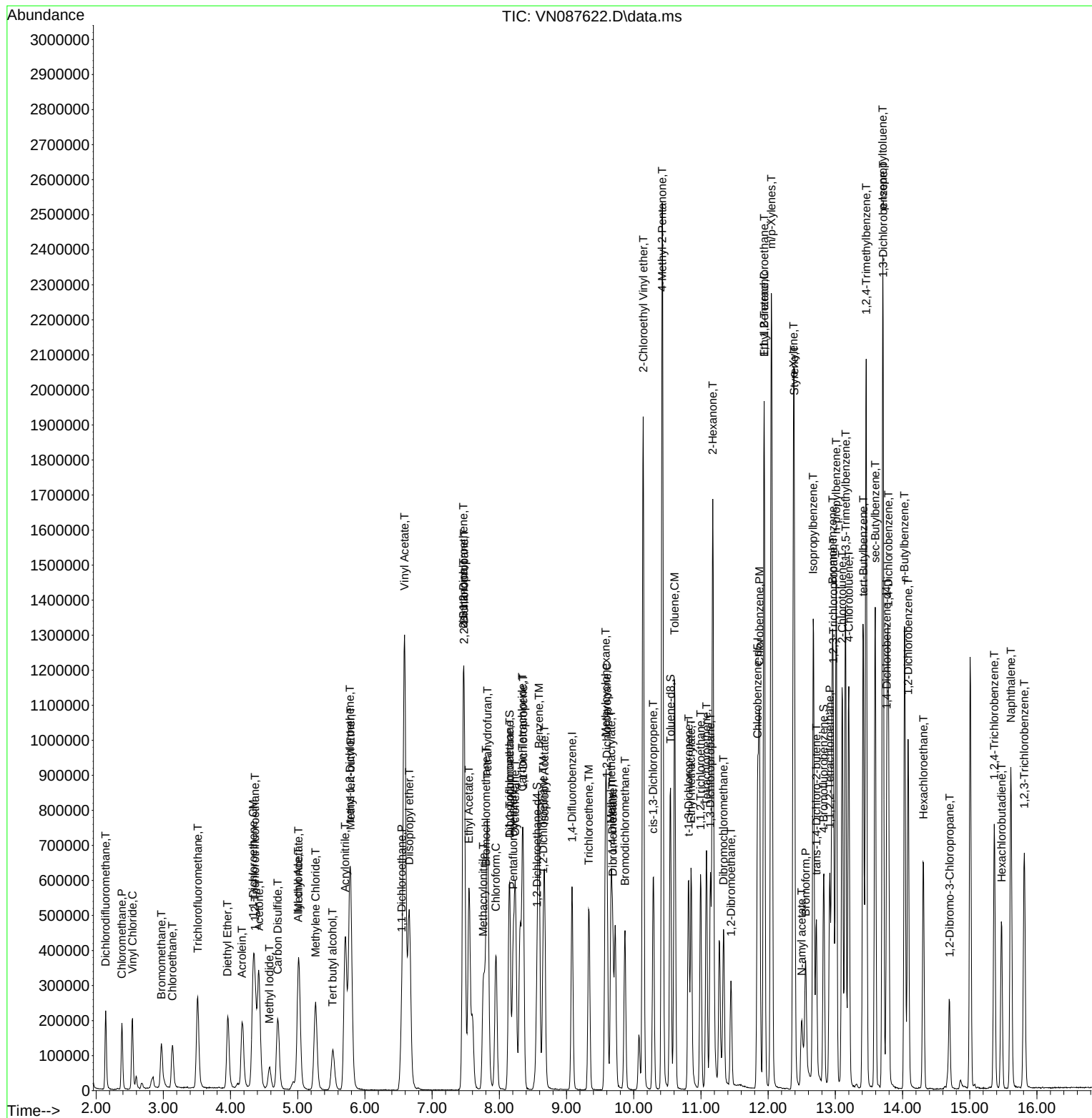
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\  
Data File : VN087622.D  
Acq On    : 21 Aug 2025   14:02  
Operator  : JC\MD  
Sample    : VSTDICCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 10   Sample Multiplier: 1
```

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
 Data File : VN087623.D
 Acq On : 21 Aug 2025 14:23
 Operator : JC\MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 08/22/2025

Supervised By : Mahesh Dadoda 08/25/2025

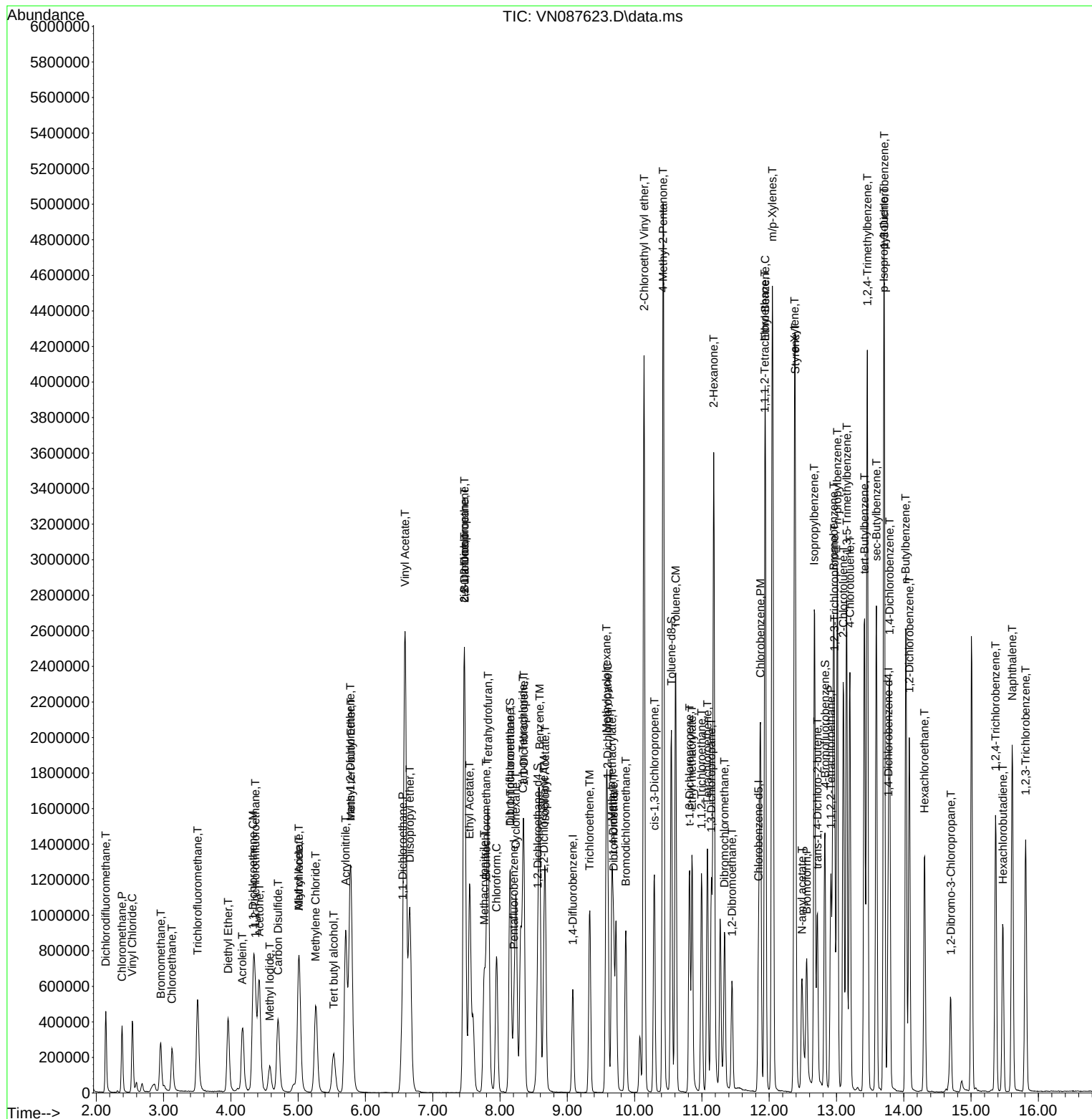
Quant Time: Aug 22 02:33:40 2025

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



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

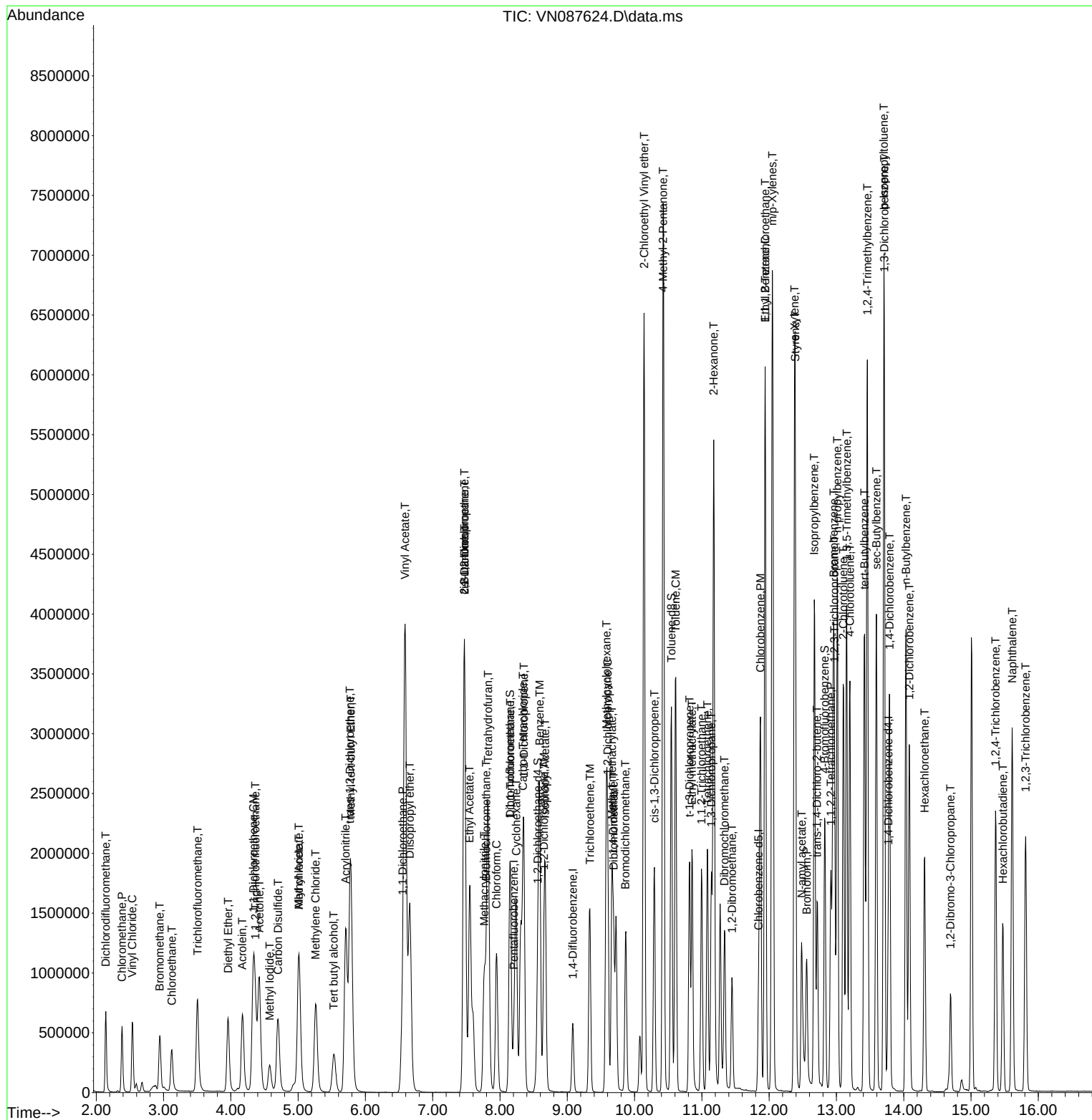
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082125\
Data File : VN087624.D
Acq On    : 21 Aug 2025   14:44
Operator  : JC\MD
Sample    : VSTDICC150
Misc      : 5.0mL/MSVOA_N/WATER
ALS Vial  : 12   Sample Multiplier: 1
```

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

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

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	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)
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(#) = 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

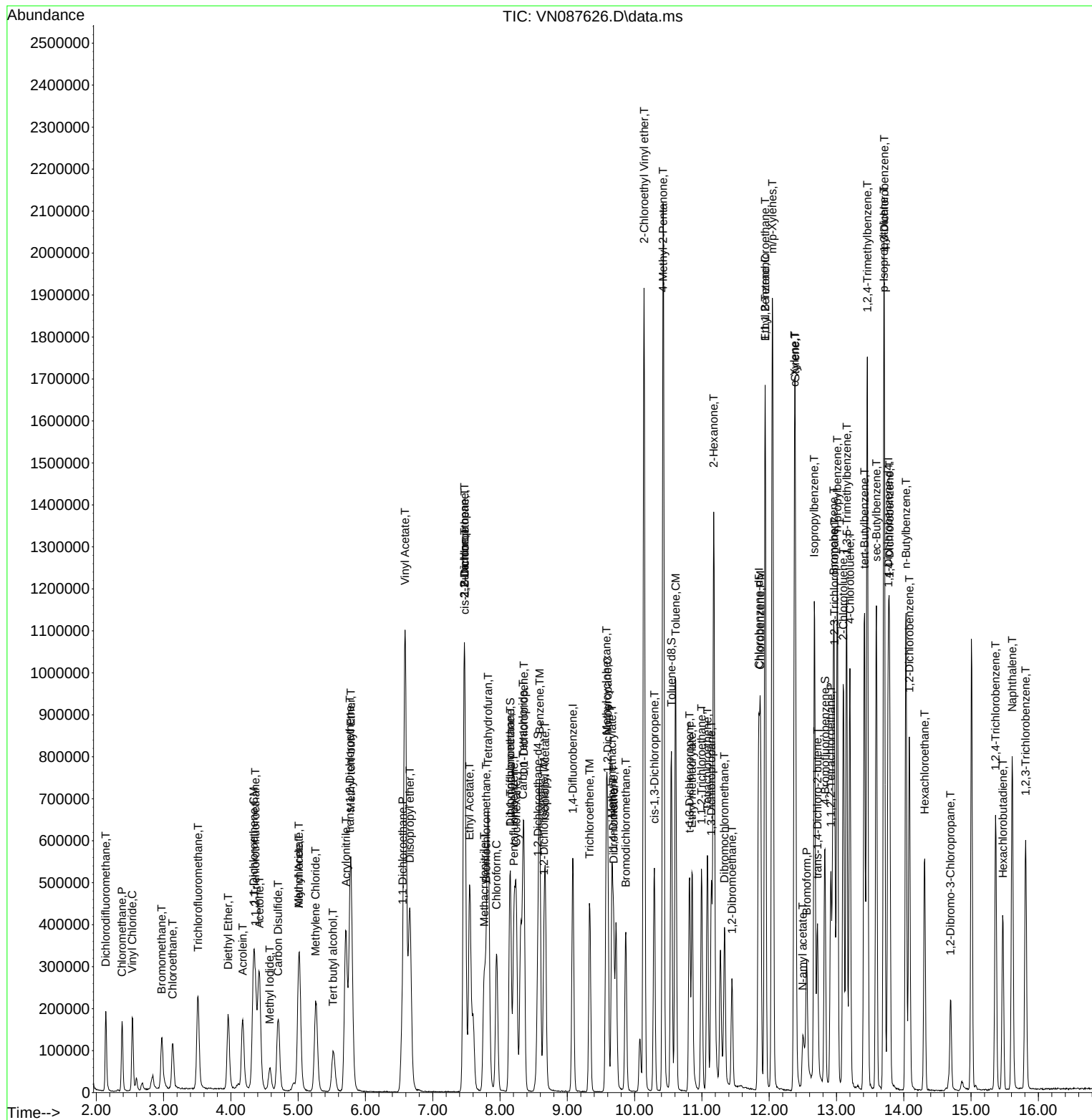
Quant Time: Aug 22 02:59:20 2025

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.: Q3109
 Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX047585.D		RRF005 = VX047586.D		RRF020 = VX047587.D			
		RRF050 = VX047588.D		RRF100 = VX047589.D		RRF150 = VX047590.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10	
Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.9	
Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.9	
Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15	
Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.4	
Trichlorofluoromethane	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.5	
1,1,2-Trichlorotrifluoroethane	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.2	
1,1-Dichloroethene	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.7	
Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.7	
Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.8	
Methyl tert-butyl Ether	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.5	
Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.4	
Methylene Chloride	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.5	
trans-1,2-Dichloroethene	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.3	
1,1-Dichloroethane	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.8	
Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.1	
2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	9	
Carbon Tetrachloride	0.482	0.574	0.555	0.539	0.526	0.518	0.532	6	
cis-1,2-Dichloroethene	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.4	
Bromochloromethane	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.2	
Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.7	
1,1,1-Trichloroethane	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.3	
Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.6	
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1	
1,2-Dichloroethane	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.8	
Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.9	
1,2-Dichloropropane	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.4	
Bromodichloromethane	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.7	
4-Methyl-2-Pentanone	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.3	
Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.2	

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



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.: Q3109
 Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX047585.D		RRF005 = VX047586.D		RRF020 = VX047587.D			
		RRF050 = VX047588.D		RRF100 = VX047589.D		RRF150 = VX047590.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.3	
cis-1,3-Dichloropropene	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.7	
1,1,2-Trichloroethane	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.1	
2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.8	
Dibromochloromethane	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.5	
1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.1	
Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6	
Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.2	
Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.6	
m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.8	
o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.1	
Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.7	
Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.4	
Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.9	
1,1,2,2-Tetrachloroethane	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.2	
1,3-Dichlorobenzene	1.462	1.800	1.829	1.817	1.768	1.758	1.739	8	
1,4-Dichlorobenzene	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.5	
1,2-Dichlorobenzene	1.359	1.691	1.757	1.746	1.696	1.692	1.657	9	
1,2-Dibromo-3-Chloropropane	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.1	
1,2,4-Trichlorobenzene	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.3	
1,2,3-Trichlorobenzene	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.7	
1,2-Dichloroethane-d4		0.884	0.647	0.770	0.815	0.863	0.796	11.8	
Dibromofluoromethane		0.356	0.266	0.331	0.355	0.368	0.335	12.3	
Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.1	
4-Bromofluorobenzene		0.478	0.360	0.427	0.452	0.484	0.440	11.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X091625W.M
 Title : SW846 8260
 Last Update : Wed Sep 17 06:39:58 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX047585.D 5 =VX047586.D 20 =VX047587.D 50 =VX047588.D 100 =VX047589.D 150 =VX047590.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10.01
3) P	Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.92
4) C	Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.87#
5) T	Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15.01
6) T	Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.36
7) T	Trichlorofluor...	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.49
8) T	Diethyl Ether	0.372	0.405	0.413	0.409	0.420	0.409	0.405	4.17
9) T	1,1,2-Trichlor...	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.21
10) T	Methyl Iodide		0.865	0.922	0.911	0.925	0.886	0.902	2.85
11) T	Tert butyl alc...		0.085	0.086	0.089	0.090	0.094	0.089	4.18
12) CM	1,1-Dichloroet...	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.71#
13) T	Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.59
14) T	Allyl chloride	1.194	1.267	1.249	1.211	1.226	1.207	1.226	2.25
15) T	Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.82
16) T	Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.67
17) T	Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.80
18) T	Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.39
19) T	Methyl tert-bu...	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.47
20) T	Methylene Chlo...	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.45
21) T	trans-1,2-Dich...	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.28
22) T	Diisopropyl ether	1.976	2.531	2.487	2.477	2.398	2.384	2.376	8.56
23) T	Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.41
24) P	1,1-Dichloroet...	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.81
25) T	2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	8.98
26) T	2,2-Dichloropr...	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.06
27) T	cis-1,2-Dichlo...	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.41
28) T	Bromochloromet...	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.18
29) T	Tetrahydrofuran	0.211	0.269	0.272	0.275	0.262	0.268	0.260	9.24
30) C	Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.72#
31) T	Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.08
32) T	1,1,1-Trichlor...	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.33
33) S	1,2-Dichloroet...		0.884	0.647	0.770	0.815	0.863	0.796	11.82
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.356	0.266	0.331	0.355	0.368	0.335	12.25
36) T	1,1-Dichloropr...	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.15
37) T	Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.21
38) T	Carbon Tetrach...	0.482	0.574	0.555	0.539	0.526	0.518	0.532	5.99
39) T	Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.60
40) TM	Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.11
41) T	Methacrylonitrile	0.236	0.264	0.286	0.286	0.282	0.271	0.271	7.13
42) TM	1,2-Dichloroet...	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.76
43) T	Isopropyl Acetate	0.751	0.882	0.889	0.897	0.865	0.879	0.860	6.34
44) TM	Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.92
45) C	1,2-Dichloropr...	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.37#
46) T	Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.54
47) T	Bromodichlorom...	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.65
48) T	Methyl methacr...	0.372	0.421	0.447	0.449	0.436	0.446	0.429	6.97
49) T	1,4-Dioxane	0.003	0.004	0.004	0.005	0.005	0.005	0.004	19.43
50) S	Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.10
51) T	4-Methyl-2-Pen...	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.28
52) CM	Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.22#
53) T	t-1,3-Dichloro...	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.33
54) T	cis-1,3-Dichlo...	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.74
55) T	1,1,2-Trichlor...	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.10
56) T	Ethyl methacry...	0.407	0.563	0.587	0.599	0.580	0.595	0.555	13.25

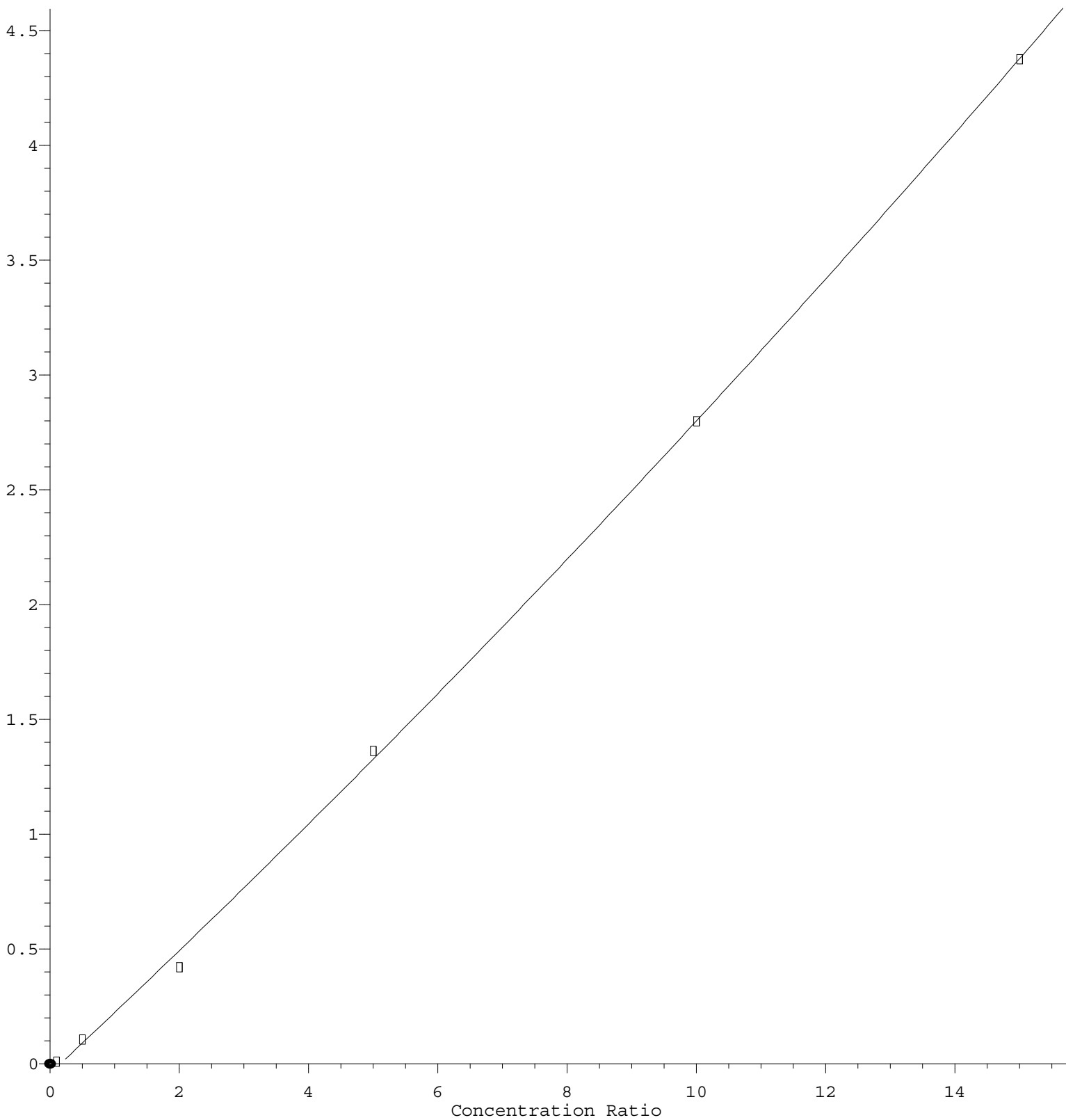
Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X091625W.M

57)	T	1,3-Dichloropr...	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.51
58)	T	2-Chloroethyl ...	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.65
59)	T	2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.82
60)	T	Dibromochlorom...	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.49
61)	T	1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.10
62)	S	4-Bromofluorob...		0.478	0.360	0.427	0.452	0.484	0.440	11.42
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6.03
65)	PM	Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.18
66)	T	1,1,1,2-Tetrac...	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.26
67)	C	Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.57#
68)	T	m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.77
69)	T	o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.13
70)	T	Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.70
71)	P	Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.37
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.94
74)	T	N-amyl acetate	1.277	1.726	1.851	1.862	1.834	1.850	1.733	13.21
75)	P	1,1,2,2-Tetrac...	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.16
76)	T	1,2,3-Trichlor...	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.13
77)	T	Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.38
78)	T	n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.17
79)	T	2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.91
80)	T	1,3,5-Trimethy...	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.62
81)	T	trans-1,4-Dich...		0.347	0.381	0.414	0.420	0.424	0.397	8.31
82)	T	4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.74
83)	T	tert-Butylbenzene	2.800	3.223	3.346	3.359	3.240	3.215	3.197	6.39
84)	T	1,2,4-Trimethy...	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.17
85)	T	sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.09
86)	T	p-Isopropyltol...	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.81
87)	T	1,3-Dichlorobe...	1.462	1.800	1.829	1.817	1.768	1.758	1.739	7.95
88)	T	1,4-Dichlorobe...	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.47
89)	T	n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.14
90)	T	Hexachloroethane	0.434	0.565	0.574	0.593	0.606	0.614	0.564	11.81
91)	T	1,2-Dichlorobe...	1.359	1.691	1.757	1.746	1.696	1.692	1.657	8.97
92)	T	1,2-Dibromo-3-...	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.07
93)	T	1,2,4-Trichlor...	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.34
94)	T	Hexachlorobuta...	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.51
95)	T	Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.46
96)	T	1,2,3-Trichlor...	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.72

(#) = Out of Range

2-Chloroethyl Vinyl ether

Response Ratio



$R = 2.100e-003 A^2 + 2.631e-001 A - 4.158e-002$
 Coef of Det (r^2) = 0.999517 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X091625W.M
 Calibration Table Last Updated: Wed Sep 17 06:39:58 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	78 - 117	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	92 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l	96
3) Chloromethane	1.300	50	3006	0.897	ug/l #	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l	95
6) Chloroethane	1.697	64	2134	0.973	ug/l	95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l	88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l	93
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l #	80
14) Allyl chloride	2.666	41	5885	0.974	ug/l	94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l	97
16) Acetone	2.380	43	8444	4.953	ug/l	99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l #	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l #	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l	93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l	95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l #	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l	97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l	95
25) 2-Butanone	4.550	43	9105	4.281	ug/l #	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l	77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l	96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l #	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l	98
30) Chloroform	5.074	83	5093	0.810	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l #	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l #	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l #	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l	95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l	94
40) Benzene	6.025	78	12012	0.894	ug/l	98
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l #	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l	80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l	94
44) Trichloroethene	7.110	130	2677	0.824	ug/l	78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.574	93	2240	0.895	ug/l	94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l #	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l #	87
49) 1,4-Dioxane	7.653	88	488m	12.477	ug/l	
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l	95
52) Toluene	8.708	92	7595	0.917	ug/l	92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l #	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l #	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l	95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l #	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l	99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l	98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l	87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l	96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l	83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l #	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l	98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l	99
69) o-Xylene	10.622	106	4734	0.816	ug/l	94
70) Styrene	10.640	104	8377	0.824	ug/l	96
71) Bromoform	10.787	173	1816	0.755	ug/l #	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l	96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l	96
76) 1,2,3-Trichloropropane	11.225	75	3421m	0.816	ug/l	
77) Bromobenzene	11.183	156	3069	0.811	ug/l	98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l	99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l	99
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l	95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l	97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l	100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l	99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l	92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	6341m	0.880	ug/l	
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l	97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l	95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l	93
95) Naphthalene	13.756	128	10112	0.763	ug/l	98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l	98

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

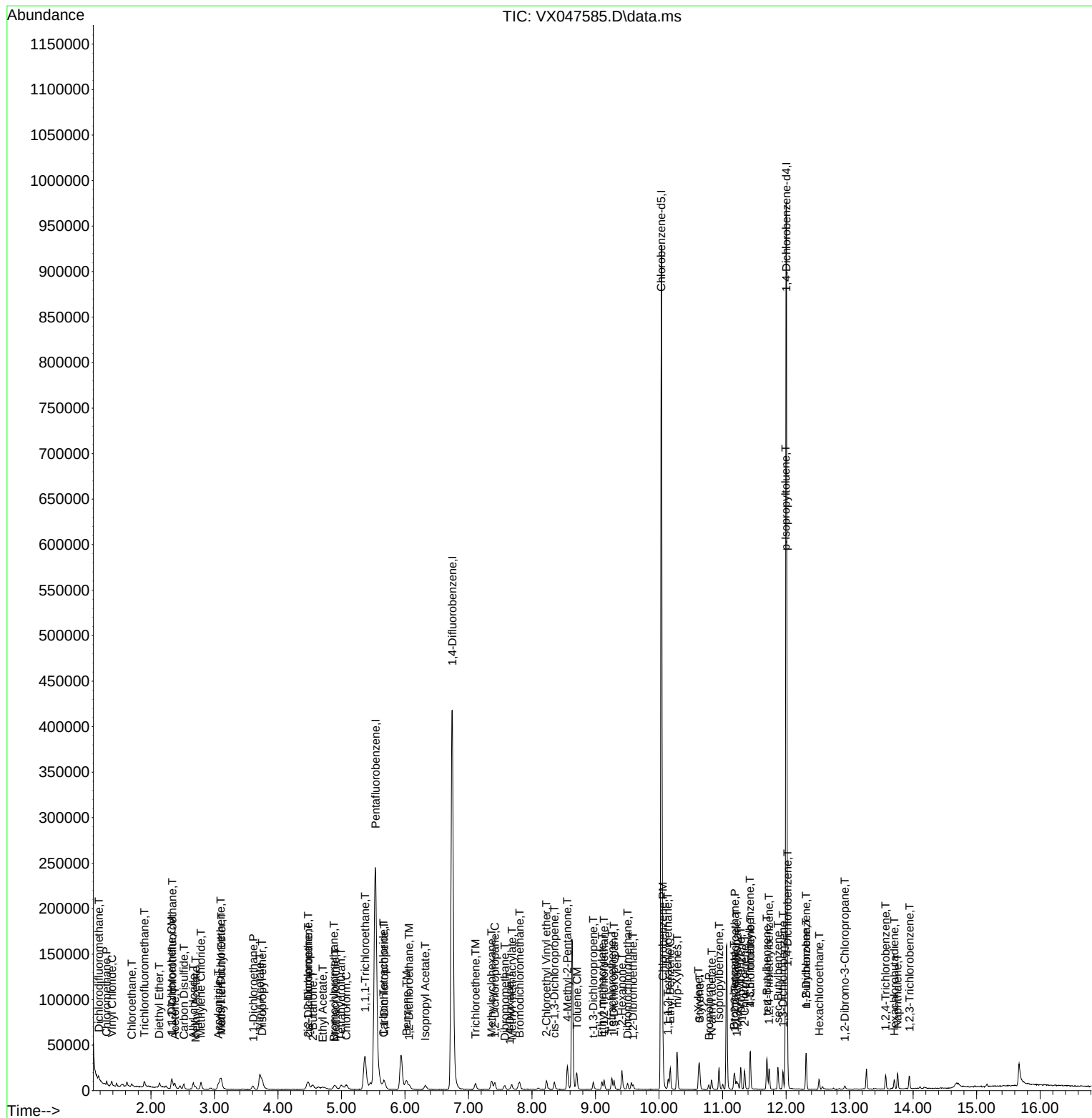
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047586.D
 Acq On : 16 Sep 2025 10:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	11.100%#		
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.620%#		
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.860%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047586.D
 Acq On : 16 Sep 2025 10:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l	95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l	99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l	99
44) Trichloroethene	7.111	130	13576	5.314	ug/l	97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l	99
46) Dibromomethane	7.568	93	10133	5.146	ug/l	99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l	99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l	99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l #	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l	100
52) Toluene	8.702	92	34314	5.271	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l	91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l	97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l	98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l	99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l	95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l	98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l	97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l	99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l	100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l	99
69) o-Xylene	10.628	106	23300	5.204	ug/l	98
70) Styrene	10.640	104	40872	5.210	ug/l	99
71) Bromoform	10.781	173	9298	5.006	ug/l #	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l	100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	15982m	4.927	ug/l	
77) Bromobenzene	11.183	156	15066	5.150	ug/l	99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l	100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l	91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l	100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l	100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l	99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l	93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l	99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l	98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l	99
95) Naphthalene	13.756	128	49257	4.808	ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

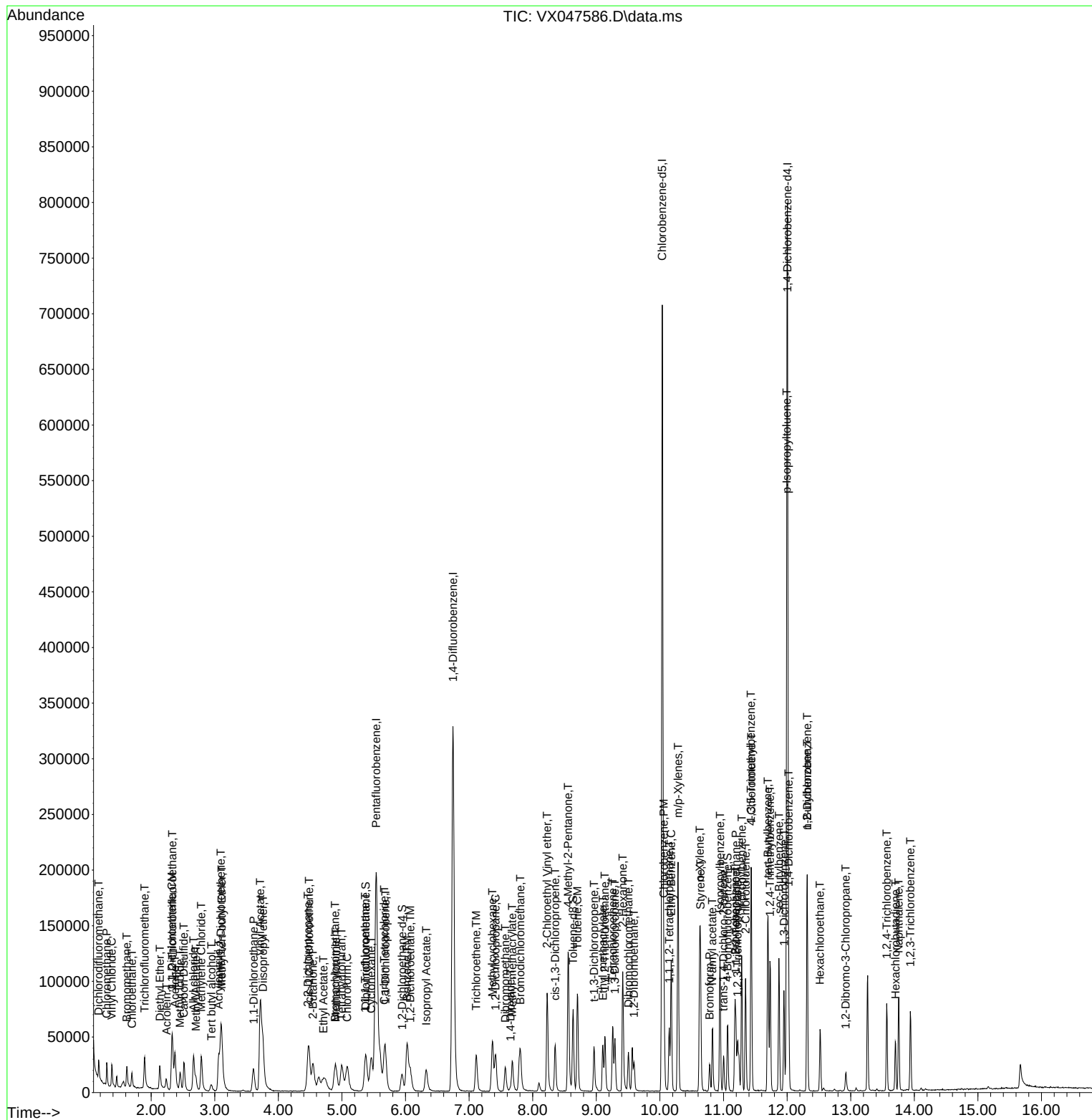
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	32.520%#		
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	31.740%#		
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	32.520%#		
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	32.720%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l	99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l	99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l	100
44) Trichloroethene	7.110	130	51369	21.228	ug/l	97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l	97
46) Dibromomethane	7.568	93	38910	20.862	ug/l	99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l	98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l	98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l	95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l	100
52) Toluene	8.708	92	129193	20.950	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l	99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l	98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l	99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l	100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l	99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l	99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l	99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l	95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l	99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l	98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l	100
69) o-Xylene	10.628	106	87651	20.799	ug/l	98
70) Styrene	10.640	104	154077	20.866	ug/l	99
71) Bromoform	10.780	173	35922	20.550	ug/l #	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l	99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l	99
76) 1,2,3-Trichloropropane	11.225	75	60797m	20.680	ug/l	
77) Bromobenzene	11.183	156	56161	21.183	ug/l	99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l	100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l	96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l	100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l	100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l	98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l	100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l	99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l	99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l	96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l	98
95) Naphthalene	13.756	128	193134	20.801	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

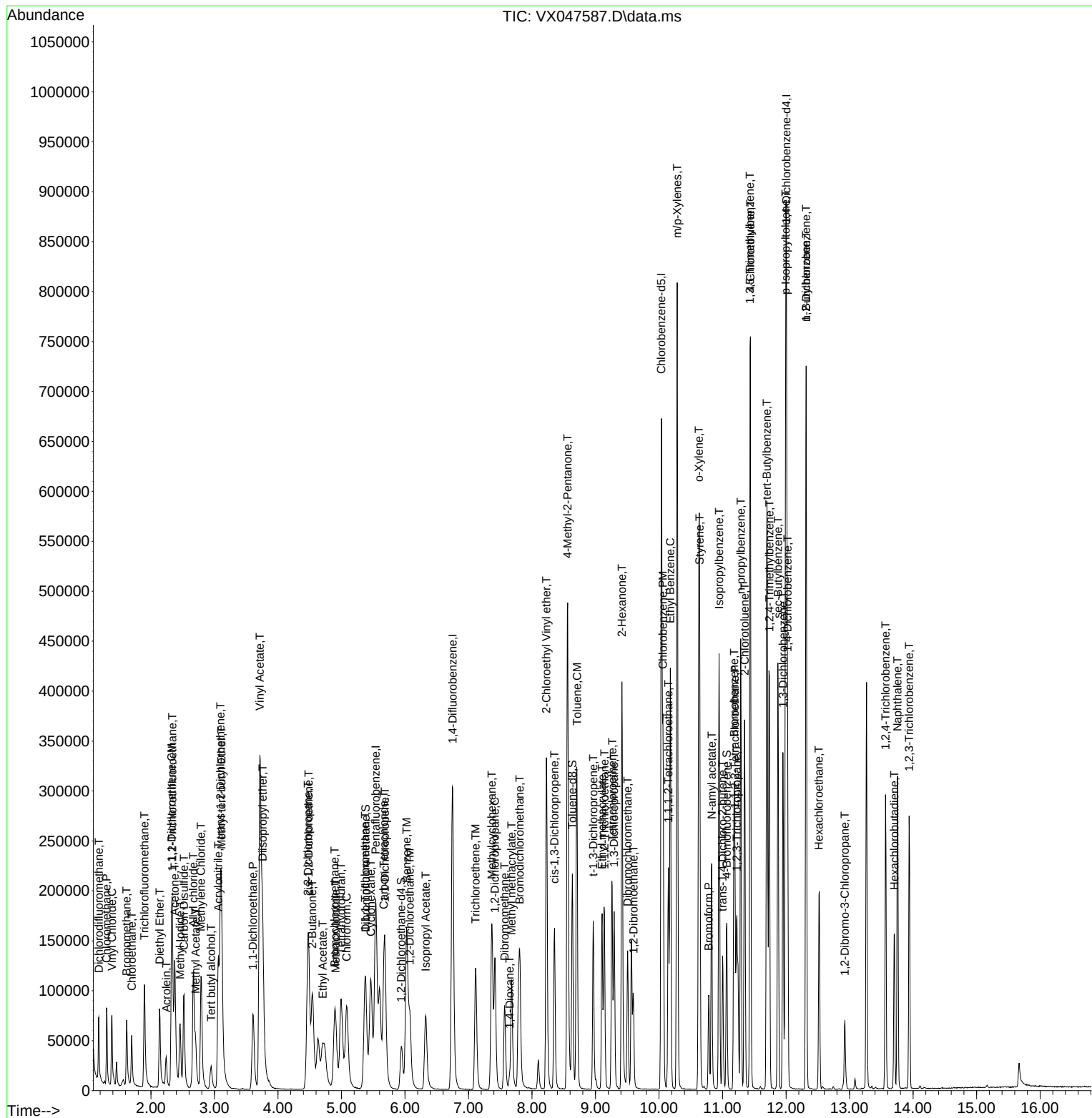
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.800%		
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.600%		
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.860%		
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.940%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l	100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l	100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l	100
44) Trichloroethene	7.111	130	113832	51.463	ug/l	100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l	100
46) Dibromomethane	7.568	93	88505	51.914	ug/l	100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l	100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l	100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l	100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l	100
52) Toluene	8.702	92	288853	51.244	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l	100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l	100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l	100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l	100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l	100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l	100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l	100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l	100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l	100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l	100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l	100
69) o-Xylene	10.622	106	202291	53.084	ug/l	100
70) Styrene	10.640	104	350654	52.515	ug/l	100
71) Bromoform	10.781	173	84485	53.447	ug/l #	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l	100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	144074m	54.322	ug/l	
77) Bromobenzene	11.183	156	126174	52.754	ug/l	100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l	100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l	100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l	100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l	100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l	100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l	100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l	100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l	100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l	100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l	100
95) Naphthalene	13.756	128	452013	53.966	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

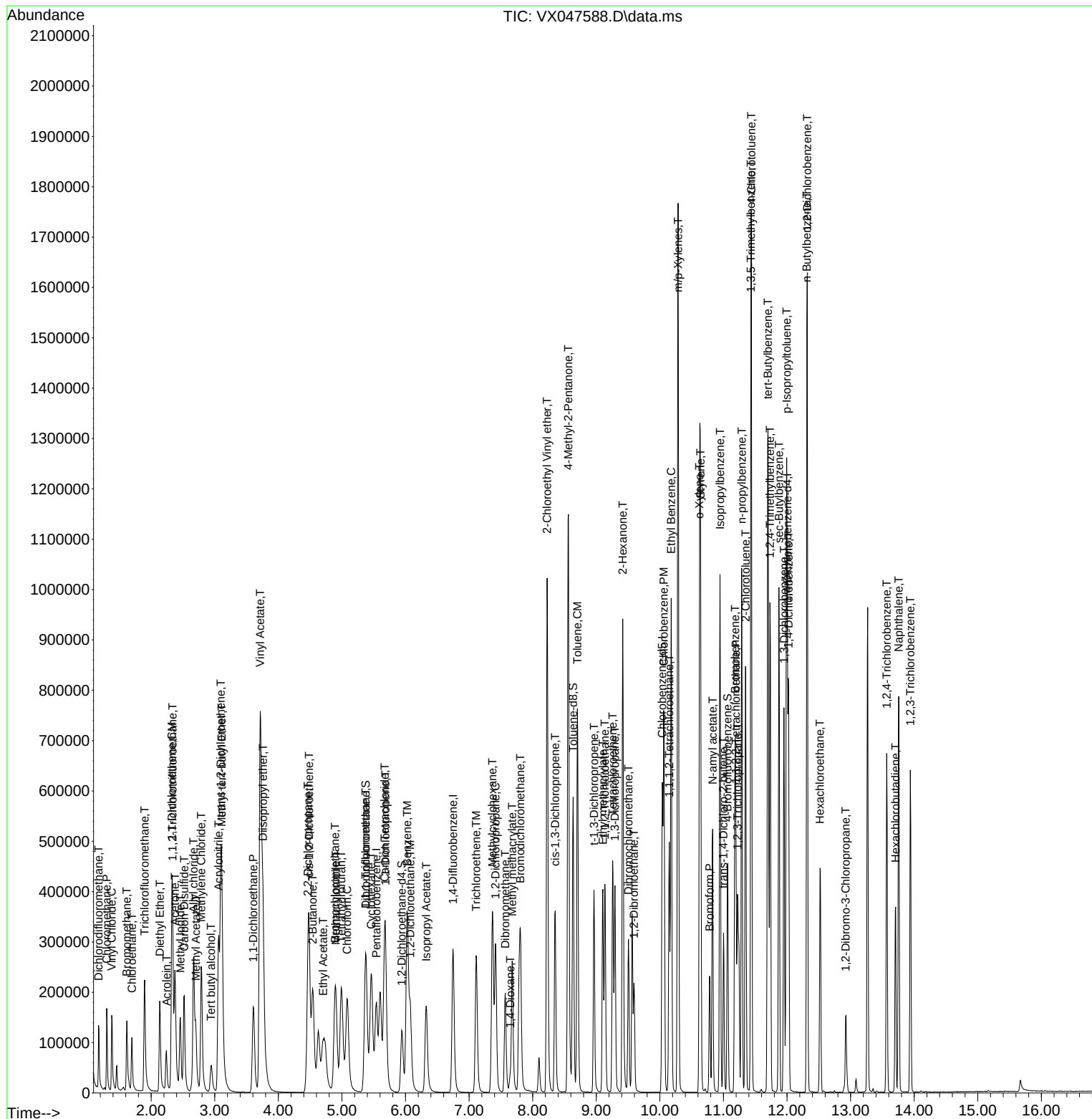
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	229521m	90.444	ug/l	
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

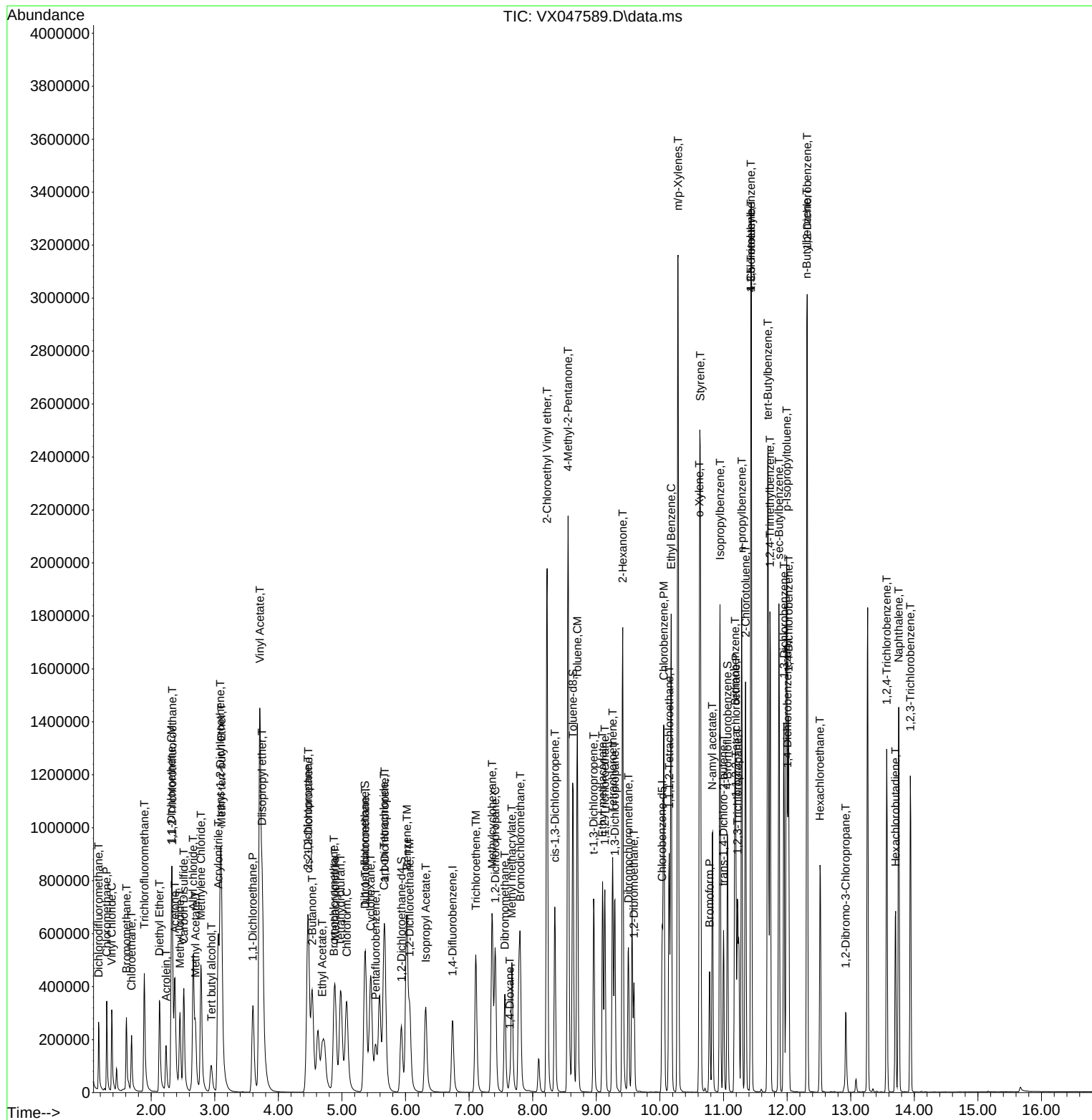
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDIC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Manual Integrations
APPROVED

Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 325.340%#	
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 329.600%#	
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 326.500%#	
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 330.040%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951	ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515	ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283	ug/l	99
44) Trichloroethene	7.111	130	299673	151.542	ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219	ug/l	99
46) Dibromomethane	7.568	93	228550	149.954	ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710	ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194	ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565	ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849	ug/l	100
52) Toluene	8.702	92	739332	146.712	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781	ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773	ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661	ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035	ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318	ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949	ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590	ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733	ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026	ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381	ug/l	99
69) o-Xylene	10.628	106	521840	152.920	ug/l	99
70) Styrene	10.640	104	917532	153.449	ug/l	99
71) Bromoform	10.781	173	229683	162.262	ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477	ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035	ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	366171m	153.692	ug/l	
77) Bromobenzene	11.183	156	328336	152.818	ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337	ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176	ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112	ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819	ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336	ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448	ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814	ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222	ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884	ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110	ug/l	99
95) Naphthalene	13.756	128	1229363	163.388	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

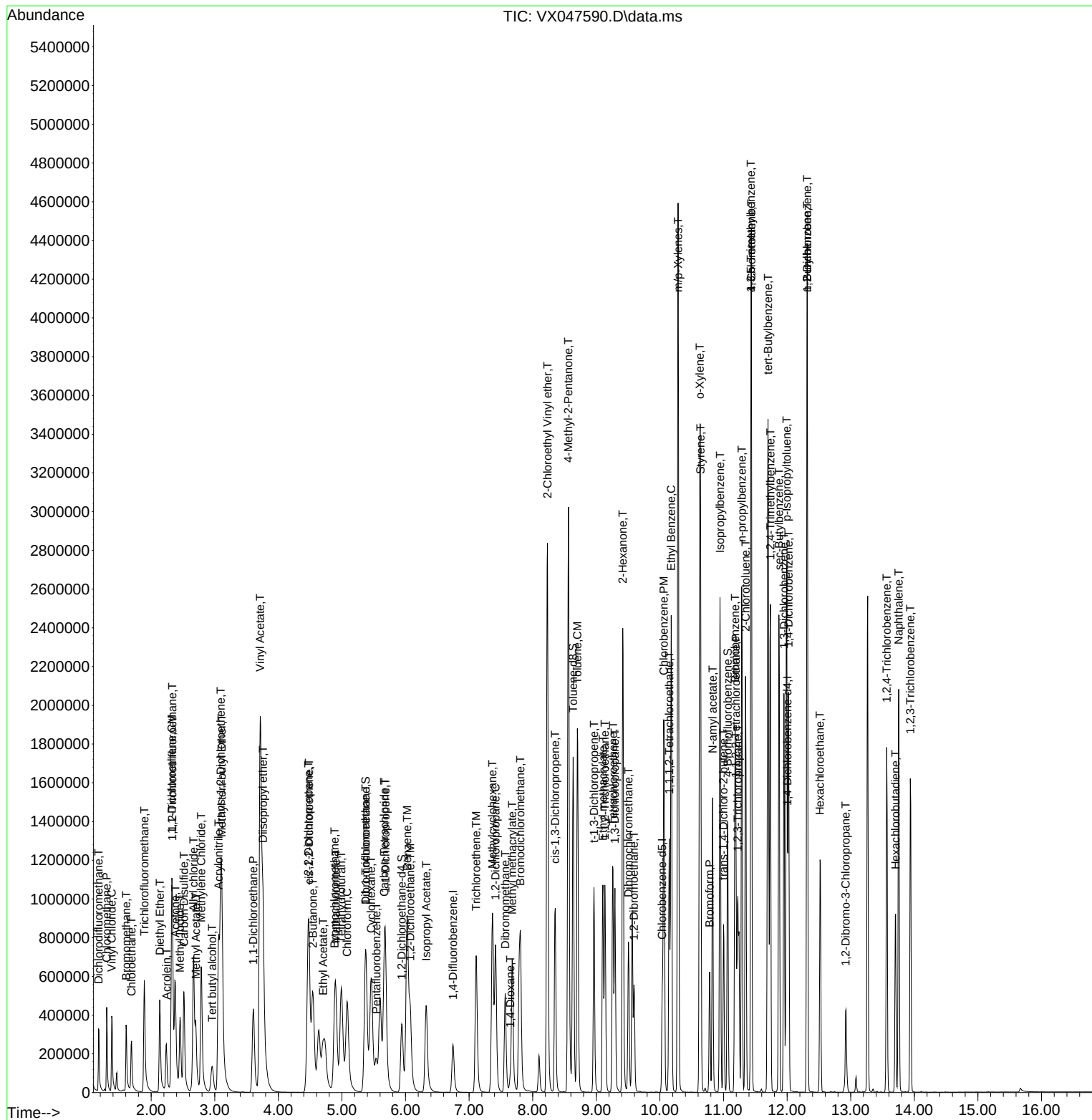
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.100%		
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.820%		
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.040%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l	98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l	100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l	100
44) Trichloroethene	7.104	130	114708	48.037	ug/l	98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l	98
46) Dibromomethane	7.562	93	88297	47.976	ug/l	98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l	96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l	99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l	100
52) Toluene	8.702	92	292879	48.130	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l	98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l	99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l	99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l	99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l	99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l	99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l	98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l	98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l	99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l	99
69) o-Xylene	10.622	106	204323	50.159	ug/l	99
70) Styrene	10.640	104	353567	49.536	ug/l	99
71) Bromoform	10.780	173	86524	51.207	ug/l #	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l	100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	149779m	53.124	ug/l	
77) Bromobenzene	11.183	156	125610	48.173	ug/l	98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l	99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l	99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l	100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l	99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l	100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l	99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l	100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l	100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l	99
95) Naphthalene	13.756	128	464206	50.836	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

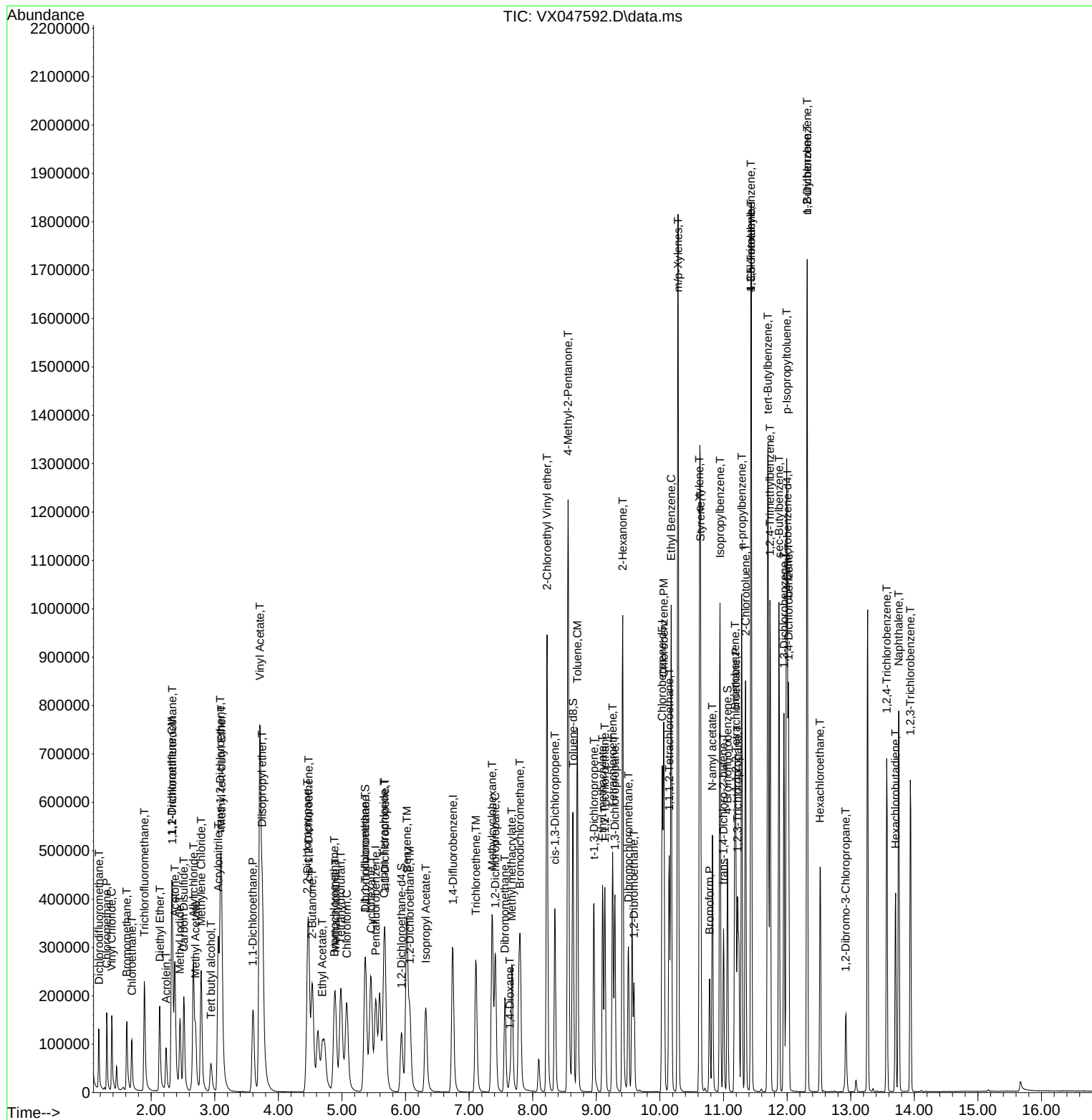
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2 T	Dichlorodifluoromethane	0.518	0.462	10.8	99	0.00
3 P	Chloromethane	0.680	0.595	12.5	97	0.00
4 C	Vinyl Chloride	0.666	0.610	8.4#	99	0.00
5 T	Bromomethane	0.422	0.410	2.8	104	0.00
6 T	Chloroethane	0.445	0.415	6.7	101	0.00
7 T	Trichlorofluoromethane	0.989	0.931	5.9	101	0.00
8 T	Diethyl Ether	0.405	0.378	6.7	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.578	0.561	2.9	103	0.00
10 T	Methyl Iodide	0.902	0.834	7.5	98	0.00
11 T	Tert butyl alcohol	0.089	0.091	-2.2	110	0.00
12 CM	1,1-Dichloroethene	0.594	0.559	5.9#	100	0.00
13 T	Acrolein	0.082	0.083	-1.2	110	0.00
14 T	Allyl chloride	1.226	1.146	6.5	102	0.00
15 T	Acrylonitrile	0.328	0.333	-1.5	103	0.00
16 T	Acetone	0.346	0.339	2.0	115	0.00
17 T	Carbon Disulfide	1.626	1.463	10.0	100	0.00
18 T	Methyl Acetate	0.770	0.850	-10.4	104	0.00
19 T	Methyl tert-butyl Ether	2.169	2.105	3.0	101	0.00
20 T	Methylene Chloride	0.732	0.674	7.9	99	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.597	6.7	99	0.00
22 T	Diisopropyl ether	2.376	2.289	3.7	99	-0.01
23 T	Vinyl Acetate	1.901	1.867	1.8	101	0.00
24 P	1,1-Dichloroethane	1.263	1.213	4.0	101	0.00
25 T	2-Butanone	0.432	0.438	-1.4	107	0.00
26 T	2,2-Dichloropropane	1.050	1.039	1.0	105	0.00
27 T	cis-1,2-Dichloroethene	0.783	0.765	2.3	102	0.00
28 T	Bromochloromethane	0.551	0.514	6.7	96	-0.01
29 T	Tetrahydrofuran	0.260	0.263	-1.2	103	0.00
30 C	Chloroform	1.276	1.244	2.5#	101	0.00
31 T	Cyclohexane	1.052	0.968	8.0	101	0.00
32 T	1,1,1-Trichloroethane	1.082	1.060	2.0	101	0.00
33 S	1,2-Dichloroethane-d4	0.796	0.725	8.9	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35 S	Dibromofluoromethane	0.335	0.306	8.7	100	0.00
36 T	1,1-Dichloropropene	0.490	0.457	6.7	101	0.00
37 T	Ethyl Acetate	0.525	0.517	1.5	105	-0.01
38 T	Carbon Tetrachloride	0.532	0.500	6.0	100	-0.01
39 T	Methylcyclohexane	0.556	0.541	2.7	103	0.00
40 TM	Benzene	1.488	1.410	5.2	100	0.00
41 T	Methacrylonitrile	0.271	0.274	-1.1	103	0.00
42 TM	1,2-Dichloroethane	0.566	0.531	6.2	98	0.00
43 T	Isopropyl Acetate	0.860	0.846	1.6	102	0.00
44 TM	Trichloroethene	0.360	0.346	3.9	101	0.00
45 C	1,2-Dichloropropane	0.381	0.366	3.9#	100	0.00
46 T	Dibromomethane	0.277	0.266	4.0	100	0.00
47 T	Bromodichloromethane	0.572	0.558	2.4	99	0.00
48 T	Methyl methacrylate	0.429	0.427	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	106	0.00
50 S	Toluene-d8	1.160	1.077	7.2	101	0.00
51 T	4-Methyl-2-Pentanone	0.477	0.488	-2.3	103	0.00
52 CM	Toluene	0.917	0.883	3.7#	101	0.00
53 T	t-1,3-Dichloropropene	0.584	0.578	1.0	101	0.00
54 T	cis-1,3-Dichloropropene	0.624	0.615	1.4	102	0.00
55 T	1,1,2-Trichloroethane	0.354	0.338	4.5	99	0.00
56 T	Ethyl methacrylate	0.555	0.572	-3.1	103	0.00
57 T	1,3-Dichloropropane	0.607	0.594	2.1	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.227	0.238	-4.8	94	0.00
59 T	2-Hexanone	0.343	0.347	-1.2	104	0.00
60 T	Dibromochloromethane	0.407	0.406	0.2	101	0.00
61 T	1,2-Dibromoethane	0.360	0.355	1.4	101	0.00
62 S	4-Bromofluorobenzene	0.440	0.410	6.8	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.326	0.315	3.4	103	0.00
65 PM	Chlorobenzene	1.136	1.103	2.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.392	0.383	2.3	99	0.00
67 C	Ethyl Benzene	1.960	1.953	0.4#	102	0.00
68 T	m/p-Xylenes	0.729	0.722	1.0	101	0.00
69 T	o-Xylene	0.706	0.708	-0.3	101	0.00
70 T	Styrene	1.236	1.225	0.9	101	0.00
71 P	Bromoform	0.293	0.300	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73 T	Isopropylbenzene	3.801	3.762	1.0	101	0.00
74 T	N-amyl acetate	1.733	1.746	-0.8	102	0.00
75 P	1,1,2,2-Tetrachloroethane	1.150	1.147	0.3	102	0.00
76 T	1,2,3-Trichloropropane	1.012	1.076	-6.3	104	0.00
77 T	Bromobenzene	0.936	0.902	3.6	100	0.00
78 T	n-propylbenzene	4.494	4.430	1.4	101	0.00
79 T	2-Chlorotoluene	2.752	2.704	1.7	101	0.00
80 T	1,3,5-Trimethylbenzene	3.123	3.127	-0.1	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.397	0.401	-1.0	106	0.00
82 T	4-Chlorotoluene	3.251	3.196	1.7	101	0.00
83 T	tert-Butylbenzene	3.197	3.177	0.6	103	0.00
84 T	1,2,4-Trimethylbenzene	3.166	3.161	0.2	103	0.00
85 T	sec-Butylbenzene	3.797	3.805	-0.2	103	0.00
86 T	p-Isopropyltoluene	3.215	3.206	0.3	102	0.00
87 T	1,3-Dichlorobenzene	1.739	1.705	2.0	102	0.00
88 T	1,4-Dichlorobenzene	1.785	1.749	2.0	104	0.00
89 T	n-Butylbenzene	2.975	3.020	-1.5	105	0.00
90 T	Hexachloroethane	0.564	0.573	-1.6	105	0.00
91 T	1,2-Dichlorobenzene	1.657	1.634	1.4	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.237	-1.7	102	0.00
93 T	1,2,4-Trichlorobenzene	1.077	1.101	-2.2	104	0.00
94 T	Hexachlorobutadiene	0.366	0.381	-4.1	108	0.00
95 T	Naphthalene	3.279	3.334	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.023	-2.1	102	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2 T	Dichlorodifluoromethane	50.000	44.592	10.8	99	0.00
3 P	Chloromethane	50.000	43.710	12.6	97	0.00
4 C	Vinyl Chloride	50.000	45.783	8.4#	99	0.00
5 T	Bromomethane	50.000	48.489	3.0	104	0.00
6 T	Chloroethane	50.000	46.575	6.8	101	0.00
7 T	Trichlorofluoromethane	50.000	47.074	5.9	101	0.00
8 T	Diethyl Ether	50.000	46.693	6.6	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.524	3.0	103	0.00
10 T	Methyl Iodide	50.000	46.210	7.6	98	0.00
11 T	Tert butyl alcohol	250.000	256.271	-2.5	110	0.00
12 CM	1,1-Dichloroethene	50.000	47.076	5.8#	100	0.00
13 T	Acrolein	250.000	254.867	-1.9	110	0.00
14 T	Allyl chloride	50.000	46.742	6.5	102	0.00
15 T	Acrylonitrile	250.000	253.567	-1.4	103	0.00
16 T	Acetone	250.000	245.006	2.0	115	0.00
17 T	Carbon Disulfide	50.000	44.966	10.1	100	0.00
18 T	Methyl Acetate	50.000	55.175	-10.3	104	0.00
19 T	Methyl tert-butyl Ether	50.000	48.538	2.9	101	0.00
20 T	Methylene Chloride	50.000	46.000	8.0	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.709	6.6	99	0.00
22 T	Diisopropyl ether	50.000	48.174	3.7	99	-0.01
23 T	Vinyl Acetate	250.000	245.539	1.8	101	0.00
24 P	1,1-Dichloroethane	50.000	48.041	3.9	101	0.00
25 T	2-Butanone	250.000	253.598	-1.4	107	0.00
26 T	2,2-Dichloropropane	50.000	49.494	1.0	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.826	2.3	102	0.00
28 T	Bromochloromethane	50.000	46.586	6.8	96	-0.01
29 T	Tetrahydrofuran	250.000	253.375	-1.4	103	0.00
30 C	Chloroform	50.000	48.739	2.5#	101	0.00
31 T	Cyclohexane	50.000	45.999	8.0	101	0.00
32 T	1,1,1-Trichloroethane	50.000	48.978	2.0	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.550	8.9	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35 S	Dibromofluoromethane	50.000	45.559	8.9	100	0.00
36 T	1,1-Dichloropropene	50.000	46.663	6.7	101	0.00
37 T	Ethyl Acetate	50.000	49.241	1.5	105	-0.01
38 T	Carbon Tetrachloride	50.000	46.935	6.1	100	-0.01
39 T	Methylcyclohexane	50.000	48.597	2.8	103	0.00
40 TM	Benzene	50.000	47.357	5.3	100	0.00
41 T	Methacrylonitrile	50.000	50.490	-1.0	103	0.00
42 TM	1,2-Dichloroethane	50.000	46.867	6.3	98	0.00
43 T	Isopropyl Acetate	50.000	49.136	1.7	102	0.00
44 TM	Trichloroethene	50.000	48.037	3.9	101	0.00
45 C	1,2-Dichloropropane	50.000	48.053	3.9#	100	0.00
46 T	Dibromomethane	50.000	47.976	4.0	100	0.00
47 T	Bromodichloromethane	50.000	48.769	2.5	99	0.00
48 T	Methyl methacrylate	50.000	49.757	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	1089.520	-9.0	106	0.00
50 S	Toluene-d8	50.000	46.411	7.2	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.752	-2.3	103	0.00
52 CM	Toluene	50.000	48.130	3.7#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	49.527	0.9	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.257	1.5	102	0.00
55 T	1,1,2-Trichloroethane	50.000	47.772	4.5	99	0.00
56 T	Ethyl methacrylate	50.000	51.490	-3.0	103	0.00
57 T	1,3-Dichloropropane	50.000	48.894	2.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	225.562	9.8	94	0.00
59 T	2-Hexanone	250.000	253.126	-1.3	104	0.00
60 T	Dibromochloromethane	50.000	49.824	0.4	101	0.00
61 T	1,2-Dibromoethane	50.000	49.297	1.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	46.520	7.0	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	48.296	3.4	103	0.00
65 PM	Chlorobenzene	50.000	48.549	2.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.794	2.4	99	0.00
67 C	Ethyl Benzene	50.000	49.813	0.4#	102	0.00
68 T	m/p-Xylenes	100.000	98.956	1.0	101	0.00
69 T	o-Xylene	50.000	50.159	-0.3	101	0.00
70 T	Styrene	50.000	49.536	0.9	101	0.00
71 P	Bromoform	50.000	51.207	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73 T	Isopropylbenzene	50.000	49.479	1.0	101	0.00
74 T	N-amyl acetate	50.000	50.375	-0.8	102	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.851	0.3	102	0.00
76 T	1,2,3-Trichloropropane	50.000	53.124	-6.2	104	0.00
77 T	Bromobenzene	50.000	48.173	3.7	100	0.00
78 T	n-propylbenzene	50.000	49.295	1.4	101	0.00
79 T	2-Chlorotoluene	50.000	49.117	1.8	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.543	-1.1	106	0.00
82 T	4-Chlorotoluene	50.000	49.164	1.7	101	0.00
83 T	tert-Butylbenzene	50.000	49.679	0.6	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.911	0.2	103	0.00
85 T	sec-Butylbenzene	50.000	50.100	-0.2	103	0.00
86 T	p-Isopropyltoluene	50.000	49.861	0.3	102	0.00
87 T	1,3-Dichlorobenzene	50.000	49.014	2.0	102	0.00
88 T	1,4-Dichlorobenzene	50.000	49.011	2.0	104	0.00
89 T	n-Butylbenzene	50.000	50.752	-1.5	105	0.00
90 T	Hexachloroethane	50.000	50.732	-1.5	105	0.00
91 T	1,2-Dichlorobenzene	50.000	49.304	1.4	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.918	-1.8	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.133	-2.3	104	0.00
94 T	Hexachlorobutadiene	50.000	52.131	-4.3	108	0.00
95 T	Naphthalene	50.000	50.836	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.054	-2.1	102	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>Q3109</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>09/16/2025 13:55</u>
Lab File ID:	<u>VN087847.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	0.736		3.66	20
Chloromethane	0.730	0.729	0.1	-0.14	20
Vinyl Chloride	0.846	0.823		-2.72	20
Bromomethane	0.437	0.498		13.96	20
Chloroethane	0.595	0.553		-7.06	20
Trichlorofluoromethane	1.240	1.264		1.93	20
1,1,2-Trichlorotrifluoroethane	0.701	0.697		-0.57	20
1,1-Dichloroethene	0.721	0.682		-5.41	20
Acetone	0.558	0.489		-12.37	20
Carbon Disulfide	1.985	1.984		-0.05	20
Methyl tert-butyl Ether	2.704	2.774		2.59	20
Methyl Acetate	1.168	1.247		6.76	20
Methylene Chloride	0.948	0.841		-11.29	20
trans-1,2-Dichloroethene	0.781	0.753		-3.59	20
1,1-Dichloroethane	1.546	1.477	0.1	-4.46	20
Cyclohexane	1.289	1.230		-4.58	20
2-Butanone	0.734	0.712		-3	20
Carbon Tetrachloride	0.547	0.611		11.7	20
cis-1,2-Dichloroethene	0.934	0.931		-0.32	20
Bromochloromethane	0.747	1.029		37.75	20
Chloroform	1.578	1.590		0.76	20
1,1,1-Trichloroethane	1.337	1.305		-2.39	20
Methylcyclohexane	0.610	0.672		10.16	20
Benzene	1.699	1.798		5.83	20
1,2-Dichloroethane	0.653	0.690		5.67	20
Trichloroethene	0.388	0.426		9.79	20
1,2-Dichloropropane	0.448	0.470		4.91	20
Bromodichloromethane	0.653	0.728		11.48	20
4-Methyl-2-Pentanone	0.713	0.781		9.54	20
Toluene	1.053	1.143		8.55	20
t-1,3-Dichloropropene	0.676	0.768		13.61	20
cis-1,3-Dichloropropene	0.702	0.788		12.25	20
1,1,2-Trichloroethane	0.407	0.467		14.74	20
2-Hexanone	0.451	0.533		18.18	20
Dibromochloromethane	0.472	0.542		14.83	20
1,2-Dibromoethane	0.430	0.497		15.58	20
Tetrachloroethene	0.347	0.372		7.2	20
Chlorobenzene	1.244	1.326	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>Q3109</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>09/16/2025 13:55</u>
Lab File ID:	<u>VN087847.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	2.347		8.96	20
m/p-Xylenes	0.790	0.894		13.16	20
o-Xylene	0.774	0.861		11.24	20
Styrene	1.297	1.504		15.96	20
Bromoform	0.317	0.404	0.1	27.44	20
Isopropylbenzene	4.040	4.015		-0.62	20
1,1,2,2-Tetrachloroethane	1.391	1.401	0.3	0.72	20
1,3-Dichlorobenzene	1.876	1.967		4.85	20
1,4-Dichlorobenzene	1.952	2.018		3.38	20
1,2-Dichlorobenzene	1.780	1.885		5.9	20
1,2-Dibromo-3-Chloropropane	0.330	0.328		-0.61	20
1,2,4-Trichlorobenzene	1.069	1.207		12.91	20
1,2,3-Trichlorobenzene	1.045	1.157		10.72	20
1,2-Dichloroethane-d4	1.024	1.103		7.72	20
Dibromofluoromethane	0.361	0.457		26.59	20
Toluene-d8	1.351	1.598		18.28	20
4-Bromofluorobenzene	0.481	0.616		28.07	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\VN091625\
 Data File : VN087847.D
 Acq On : 16 Sep 2025 13:55
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:19:11 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	239136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	433645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	409197	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	226483	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	263710	53.823	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.640%			
35) Dibromofluoromethane	8.147	113	198358	63.355	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 126.700%#			
50) Toluene-d8	10.547	98	693078	59.144	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 118.280%#			
62) 4-Bromofluorobenzene	12.829	95	266909	64.046	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 128.100%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	176013	51.823	ug/l	99
3) Chloromethane	2.383	50	174247	49.922	ug/l	95
4) Vinyl Chloride	2.536	62	196704	48.605	ug/l	99
5) Bromomethane	2.954	94	119010	56.992	ug/l	93
6) Chloroethane	3.130	64	132207	46.480	ug/l	93
7) Trichlorofluoromethane	3.501	101	302201	50.968	ug/l	98
8) Diethyl Ether	3.953	74	121893	47.204	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	166711	49.690	ug/l	97
10) Methyl Iodide	4.577	142	125052	49.892	ug/l	91
11) Tert butyl alcohol	5.530	59	208783	245.456	ug/l	99
12) 1,1-Dichloroethene	4.330	96	163096	47.305	ug/l	94
13) Acrolein	4.177	56	320278	306.284	ug/l	98
14) Allyl chloride	5.012	41	314832	50.391	ug/l	90
15) Acrylonitrile	5.706	53	605404	252.369	ug/l	98
16) Acetone	4.424	43	584245	219.048	ug/l	98
17) Carbon Disulfide	4.695	76	474332	49.974	ug/l	98
18) Methyl Acetate	5.012	43	298186	53.395	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	663246	51.280	ug/l	99
20) Methylene Chloride	5.259	84	201058	52.170	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	180140	48.209	ug/l	98
22) Diisopropyl ether	6.659	45	664049	49.251	ug/l	98
23) Vinyl Acetate	6.589	43	3041175	247.925	ug/l	98
24) 1,1-Dichloroethane	6.547	63	353124	47.768	ug/l	99
25) 2-Butanone	7.471	43	851474	242.652	ug/l	100
26) 2,2-Dichloropropane	7.471	77	307392	48.448	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	222747	49.864	ug/l	98
28) Bromochloromethane	7.794	49	245962	68.823	ug/l	94
29) Tetrahydrofuran	7.824	42	567261	251.193	ug/l	100
30) Chloroform	7.947	83	380295	50.401	ug/l	98
31) Cyclohexane	8.236	56	294041	47.712	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	312119	48.810	ug/l	97
36) 1,1-Dichloropropene	8.347	75	245212	51.052	ug/l	97
37) Ethyl Acetate	7.541	43	345834	52.691	ug/l	97
38) Carbon Tetrachloride	8.347	117	265088	55.898	ug/l	97
39) Methylcyclohexane	9.583	83	291228	55.073	ug/l	96
40) Benzene	8.588	78	779652	52.922	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087847.D
 Acq On : 16 Sep 2025 13:55
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:19:11 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	178403	52.473	ug/l	98
42) 1,2-Dichloroethane	8.653	62	299001	52.815	ug/l	99
43) Isopropyl Acetate	8.677	43	547228	53.402	ug/l	98
44) Trichloroethene	9.335	130	184521	54.860	ug/l	94
45) 1,2-Dichloropropane	9.600	63	203980	52.528	ug/l	100
46) Dibromomethane	9.688	93	155428	56.246	ug/l	96
47) Bromodichloromethane	9.871	83	315780	55.758	ug/l	99
48) Methyl methacrylate	9.665	41	258081	53.245	ug/l	96
49) 1,4-Dioxane	9.688	88	73308	1166.875	ug/l #	98
51) 4-Methyl-2-Pentanone	10.424	43	1693751	273.953	ug/l	98
52) Toluene	10.612	92	495572	54.261	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	332853	56.779	ug/l	99
54) cis-1,3-Dichloropropene	10.294	75	341604	56.121	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	202706	57.374	ug/l	97
56) Ethyl methacrylate	10.859	69	327855	58.065	ug/l	96
57) 1,3-Dichloropropane	11.141	76	345485	55.253	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	782005	255.885	ug/l	97
59) 2-Hexanone	11.177	43	1154791	295.539	ug/l	98
60) Dibromochloromethane	11.341	129	235020	57.409	ug/l	98
61) 1,2-Dibromoethane	11.447	107	215454	57.833	ug/l	99
64) Tetrachloroethene	11.082	164	152293	53.644	ug/l	95
65) Chlorobenzene	11.871	112	542528	53.293	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.941	131	198995	58.880	ug/l	99
67) Ethyl Benzene	11.941	91	960475	54.491	ug/l	99
68) m/p-Xylenes	12.047	106	731633	113.180	ug/l	95
69) o-Xylene	12.376	106	352248	55.603	ug/l	98
70) Styrene	12.388	104	615294	57.974	ug/l	99
71) Bromoform	12.559	173	165142	63.713	ug/l #	98
73) Isopropylbenzene	12.676	105	909235	49.681	ug/l	99
74) N-amyl acetate	12.506	43	298290m	43.009	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	317356	50.367	ug/l	99
76) 1,2,3-Trichloropropane	12.971	75	256155m	48.230	ug/l	
77) Bromobenzene	12.959	156	228891	53.044	ug/l	93
78) n-propylbenzene	13.012	91	1139368	50.543	ug/l	98
79) 2-Chlorotoluene	13.106	91	672391	49.565	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	792404	51.039	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	107938	53.803	ug/l #	80
82) 4-Chlorotoluene	13.200	91	701460	49.180	ug/l	96
83) tert-Butylbenzene	13.418	119	674001	52.096	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	808453	52.018	ug/l	100
85) sec-Butylbenzene	13.594	105	1007598	52.481	ug/l	98
86) p-Isopropyltoluene	13.706	119	841554	53.083	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	445525	52.429	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	456948	51.672	ug/l	98
89) n-Butylbenzene	14.035	91	834441	52.997	ug/l	99
90) Hexachloroethane	14.312	117	165831	54.904	ug/l	94
91) 1,2-Dichlorobenzene	14.082	146	426983	52.963	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	74222	49.587	ug/l	91
93) 1,2,4-Trichlorobenzene	15.370	180	273253	56.445	ug/l	98
94) Hexachlorobutadiene	15.476	225	103689	60.079	ug/l	100
95) Naphthalene	15.612	128	923574	53.862	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	262091	55.379	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087847.D
Acq On : 16 Sep 2025 13:55
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:19:11 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

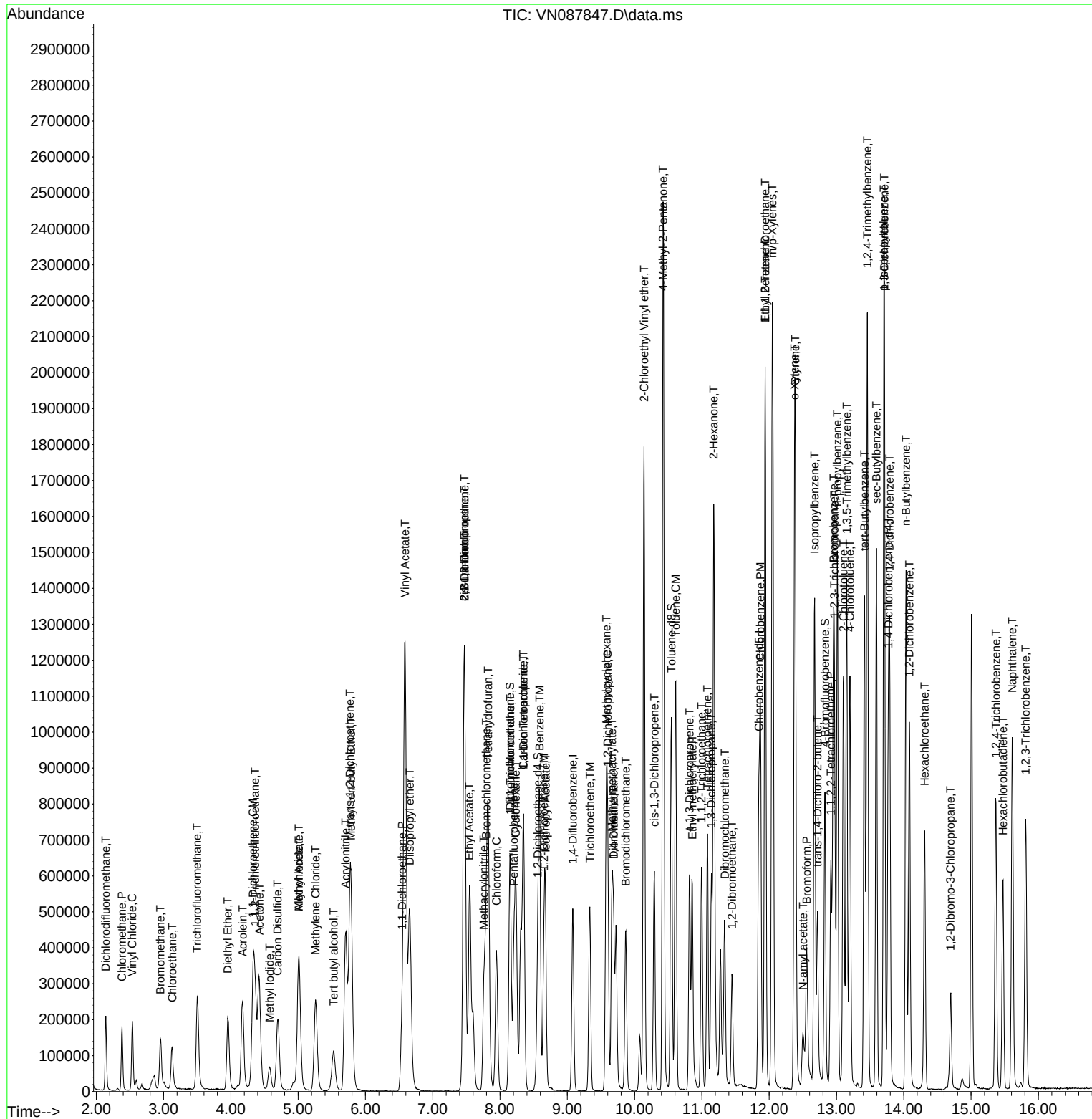
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\  
Data File : VN087847.D  
Acq On    : 16 Sep 2025  13:55  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:19:11 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\VN091625\
 Data File : VN087847.D
 Acq On : 16 Sep 2025 13:55
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 17 01:19:11 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	102	0.00
2 T	Dichlorodifluoromethane	0.710	0.736	-3.7	93	0.00
3 P	Chloromethane	0.730	0.729	0.1	93	0.00
4 C	Vinyl Chloride	0.846	0.823	2.7#	93	0.00
5 T	Bromomethane	0.437	0.498	-14.0	113	-0.02
6 T	Chloroethane	0.595	0.553	7.1	94	0.00
7 T	Trichlorofluoromethane	1.240	1.264	-1.9	101	-0.01
8 T	Diethyl Ether	0.540	0.510	5.6	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.701	0.697	0.6	102	0.00
10 T	Methyl Iodide	0.450	0.523	-16.2	111	0.00
11 T	Tert butyl alcohol	0.178	0.175	1.7	97	0.01
12 CM	1,1-Dichloroethene	0.721	0.682	5.4#	99	0.00
13 T	Acrolein	0.219	0.268	-22.4	127	0.00
14 T	Allyl chloride	1.306	1.317	-0.8	108	0.00
15 T	Acrylonitrile	0.502	0.506	-0.8	104	0.00
16 T	Acetone	0.558	0.489	12.4	95	0.00
17 T	Carbon Disulfide	1.985	1.984	0.1	101	0.00
18 T	Methyl Acetate	1.168	1.247	-6.8	110	0.00
19 T	Methyl tert-butyl Ether	2.704	2.774	-2.6	103	0.00
20 T	Methylene Chloride	0.948	0.841	11.3	104	0.00
21 T	trans-1,2-Dichloroethene	0.781	0.753	3.6	102	0.00
22 T	Diisopropyl ether	2.819	2.777	1.5	99	0.00
23 T	Vinyl Acetate	2.565	2.543	0.9	96	0.00
24 P	1,1-Dichloroethane	1.546	1.477	4.5	100	0.00
25 T	2-Butanone	0.734	0.712	3.0	99	0.00
26 T	2,2-Dichloropropane	1.327	1.285	3.2	99	0.00
27 T	cis-1,2-Dichloroethene	0.934	0.931	0.3	101	0.00
28 T	Bromochloromethane	0.747	1.029	-37.8#	150	0.00
29 T	Tetrahydrofuran	0.472	0.474	-0.4	102	0.00
30 C	Chloroform	1.578	1.590	-0.8#	103	0.00
31 T	Cyclohexane	1.289	1.230	4.6	102	0.00
32 T	1,1,1-Trichloroethane	1.337	1.305	2.4	102	0.00
33 S	1,2-Dichloroethane-d4	1.024	1.103	-7.7	117	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
35 S	Dibromofluoromethane	0.361	0.457	-26.6#	127	0.00
36 T	1,1-Dichloropropene	0.554	0.565	-2.0	99	0.00
37 T	Ethyl Acetate	0.757	0.798	-5.4	100	0.00
38 T	Carbon Tetrachloride	0.547	0.611	-11.7	105	0.00
39 T	Methylcyclohexane	0.610	0.672	-10.2	106	0.00
40 TM	Benzene	1.699	1.798	-5.8	99	0.00
41 T	Methacrylonitrile	0.392	0.411	-4.8	98	0.00
42 TM	1,2-Dichloroethane	0.653	0.690	-5.7	98	0.00
43 T	Isopropyl Acetate	1.182	1.262	-6.8	98	0.00
44 TM	Trichloroethene	0.388	0.426	-9.8	105	0.00
45 C	1,2-Dichloropropane	0.448	0.470	-4.9#	101	0.00
46 T	Dibromomethane	0.319	0.358	-12.2	104	0.00
47 T	Bromodichloromethane	0.653	0.728	-11.5	106	0.00
48 T	Methyl methacrylate	0.559	0.595	-6.4	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087847.D
 Acq On : 16 Sep 2025 13:55
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 17 01:19:11 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	101	0.00
50 S	Toluene-d8	1.351	1.598	-18.3	121	0.00
51 T	4-Methyl-2-Pentanone	0.713	0.781	-9.5	98	0.00
52 CM	Toluene	1.053	1.143	-8.5#	101	0.00
53 T	t-1,3-Dichloropropene	0.676	0.768	-13.6	101	0.00
54 T	cis-1,3-Dichloropropene	0.702	0.788	-12.3	102	0.00
55 T	1,1,2-Trichloroethane	0.407	0.467	-14.7	106	0.00
56 T	Ethyl methacrylate	0.651	0.756	-16.1	99	0.00
57 T	1,3-Dichloropropane	0.721	0.797	-10.5	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.352	0.361	-2.6	94	0.00
59 T	2-Hexanone	0.451	0.533	-18.2	97	0.00
60 T	Dibromochloromethane	0.472	0.542	-14.8	108	0.00
61 T	1,2-Dibromoethane	0.430	0.497	-15.6	107	0.00
62 S	4-Bromofluorobenzene	0.481	0.616	-28.1#	127	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
64 T	Tetrachloroethene	0.347	0.372	-7.2	111	0.00
65 PM	Chlorobenzene	1.244	1.326	-6.6	102	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.486	-17.7	108	0.00
67 C	Ethyl Benzene	2.154	2.347	-9.0#	102	0.00
68 T	m/p-Xylenes	0.790	0.894	-13.2	103	0.00
69 T	o-Xylene	0.774	0.861	-11.2	101	0.00
70 T	Styrene	1.297	1.504	-16.0	102	0.00
71 P	Bromoform	0.317	0.404	-27.4#	118	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	4.040	4.015	0.6	102	0.00
74 T	N-amyl acetate	1.531	1.317	14.0	87	0.00
75 P	1,1,2,2-Tetrachloroethane	1.391	1.401	-0.7	105	0.00
76 T	1,2,3-Trichloropropane	1.173	1.131	3.6	108	0.00
77 T	Bromobenzene	0.953	1.011	-6.1	110	0.00
78 T	n-propylbenzene	4.977	5.031	-1.1	103	0.00
79 T	2-Chlorotoluene	2.995	2.969	0.9	102	0.00
80 T	1,3,5-Trimethylbenzene	3.428	3.499	-2.1	103	0.00
81 T	trans-1,4-Dichloro-2-butene	0.443	0.477	-7.7	108	0.00
82 T	4-Chlorotoluene	3.149	3.097	1.7	101	0.00
83 T	tert-Butylbenzene	2.856	2.976	-4.2	105	0.00
84 T	1,2,4-Trimethylbenzene	3.431	3.570	-4.1	105	0.00
85 T	sec-Butylbenzene	4.239	4.449	-5.0	108	0.00
86 T	p-Isopropyltoluene	3.500	3.716	-6.2	108	0.00
87 T	1,3-Dichlorobenzene	1.876	1.967	-4.9	110	0.00
88 T	1,4-Dichlorobenzene	1.952	2.018	-3.4	111	0.00
89 T	n-Butylbenzene	3.476	3.684	-6.0	109	0.00
90 T	Hexachloroethane	0.667	0.732	-9.7	115	0.00
91 T	1,2-Dichlorobenzene	1.780	1.885	-5.9	110	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.328	0.6	106	0.00
93 T	1,2,4-Trichlorobenzene	1.069	1.207	-12.9	121	0.00
94 T	Hexachlorobutadiene	0.381	0.458	-20.2	132	0.00
95 T	Naphthalene	3.786	4.078	-7.7	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087847.D
Acq On : 16 Sep 2025 13:55
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 17 01:19:11 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	1.157	-10.7	118	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087847.D
 Acq On : 16 Sep 2025 13:55
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 17 01:19:11 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	102	0.00
2 T	Dichlorodifluoromethane	50.000	51.823	-3.6	93	0.00
3 P	Chloromethane	50.000	49.922	0.2	93	0.00
4 C	Vinyl Chloride	50.000	48.605	2.8#	93	0.00
5 T	Bromomethane	50.000	56.992	-14.0	113	-0.02
6 T	Chloroethane	50.000	46.480	7.0	94	0.00
7 T	Trichlorofluoromethane	50.000	50.968	-1.9	101	-0.01
8 T	Diethyl Ether	50.000	47.204	5.6	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.690	0.6	102	0.00
10 T	Methyl Iodide	50.000	49.892	0.2	111	0.00
11 T	Tert butyl alcohol	250.000	245.456	1.8	97	0.01
12 CM	1,1-Dichloroethene	50.000	47.305	5.4#	99	0.00
13 T	Acrolein	250.000	306.284	-22.5	127	0.00
14 T	Allyl chloride	50.000	50.391	-0.8	108	0.00
15 T	Acrylonitrile	250.000	252.369	-0.9	104	0.00
16 T	Acetone	250.000	219.048	12.4	95	0.00
17 T	Carbon Disulfide	50.000	49.974	0.1	101	0.00
18 T	Methyl Acetate	50.000	53.395	-6.8	110	0.00
19 T	Methyl tert-butyl Ether	50.000	51.280	-2.6	103	0.00
20 T	Methylene Chloride	50.000	52.170	-4.3	104	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.209	3.6	102	0.00
22 T	Diisopropyl ether	50.000	49.251	1.5	99	0.00
23 T	Vinyl Acetate	250.000	247.925	0.8	96	0.00
24 P	1,1-Dichloroethane	50.000	47.768	4.5	100	0.00
25 T	2-Butanone	250.000	242.652	2.9	99	0.00
26 T	2,2-Dichloropropane	50.000	48.448	3.1	99	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.864	0.3	101	0.00
28 T	Bromochloromethane	50.000	68.823	-37.6#	150	0.00
29 T	Tetrahydrofuran	250.000	251.193	-0.5	102	0.00
30 C	Chloroform	50.000	50.401	-0.8#	103	0.00
31 T	Cyclohexane	50.000	47.712	4.6	102	0.00
32 T	1,1,1-Trichloroethane	50.000	48.810	2.4	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.823	-7.6	117	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	93	0.00
35 S	Dibromofluoromethane	50.000	63.355	-26.7#	127	0.00
36 T	1,1-Dichloropropene	50.000	51.052	-2.1	99	0.00
37 T	Ethyl Acetate	50.000	52.691	-5.4	100	0.00
38 T	Carbon Tetrachloride	50.000	55.898	-11.8	105	0.00
39 T	Methylcyclohexane	50.000	55.073	-10.1	106	0.00
40 TM	Benzene	50.000	52.922	-5.8	99	0.00
41 T	Methacrylonitrile	50.000	52.473	-4.9	98	0.00
42 TM	1,2-Dichloroethane	50.000	52.815	-5.6	98	0.00
43 T	Isopropyl Acetate	50.000	53.402	-6.8	98	0.00
44 TM	Trichloroethene	50.000	54.860	-9.7	105	0.00
45 C	1,2-Dichloropropane	50.000	52.528	-5.1#	101	0.00
46 T	Dibromomethane	50.000	56.246	-12.5	104	0.00
47 T	Bromodichloromethane	50.000	55.758	-11.5	106	0.00
48 T	Methyl methacrylate	50.000	53.245	-6.5	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087847.D
 Acq On : 16 Sep 2025 13:55
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 17 01:19:11 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	1166.875	-16.7	101	0.00
50 S	Toluene-d8	50.000	59.144	-18.3	121	0.00
51 T	4-Methyl-2-Pentanone	250.000	273.953	-9.6	98	0.00
52 CM	Toluene	50.000	54.261	-8.5#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	56.779	-13.6	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.121	-12.2	102	0.00
55 T	1,1,2-Trichloroethane	50.000	57.374	-14.7	106	0.00
56 T	Ethyl methacrylate	50.000	58.065	-16.1	99	0.00
57 T	1,3-Dichloropropane	50.000	55.253	-10.5	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	255.885	-2.4	94	0.00
59 T	2-Hexanone	250.000	295.539	-18.2	97	0.00
60 T	Dibromochloromethane	50.000	57.409	-14.8	108	0.00
61 T	1,2-Dibromoethane	50.000	57.833	-15.7	107	0.00
62 S	4-Bromofluorobenzene	50.000	64.046	-28.1#	127	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	93	0.00
64 T	Tetrachloroethene	50.000	53.644	-7.3	111	0.00
65 PM	Chlorobenzene	50.000	53.293	-6.6	102	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	58.880	-17.8	108	0.00
67 C	Ethyl Benzene	50.000	54.491	-9.0#	102	0.00
68 T	m/p-Xylenes	100.000	113.180	-13.2	103	0.00
69 T	o-Xylene	50.000	55.603	-11.2	101	0.00
70 T	Styrene	50.000	57.974	-15.9	102	0.00
71 P	Bromoform	50.000	63.713	-27.4#	118	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	49.681	0.6	102	0.00
74 T	N-ethyl acetate	50.000	43.009	14.0	87	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.367	-0.7	105	0.00
76 T	1,2,3-Trichloropropane	50.000	48.230	3.5	108	0.00
77 T	Bromobenzene	50.000	53.044	-6.1	110	0.00
78 T	n-propylbenzene	50.000	50.543	-1.1	103	0.00
79 T	2-Chlorotoluene	50.000	49.565	0.9	102	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.039	-2.1	103	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.803	-7.6	108	0.00
82 T	4-Chlorotoluene	50.000	49.180	1.6	101	0.00
83 T	tert-Butylbenzene	50.000	52.096	-4.2	105	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.018	-4.0	105	0.00
85 T	sec-Butylbenzene	50.000	52.481	-5.0	108	0.00
86 T	p-Isopropyltoluene	50.000	53.083	-6.2	108	0.00
87 T	1,3-Dichlorobenzene	50.000	52.429	-4.9	110	0.00
88 T	1,4-Dichlorobenzene	50.000	51.672	-3.3	111	0.00
89 T	n-Butylbenzene	50.000	52.997	-6.0	109	0.00
90 T	Hexachloroethane	50.000	54.904	-9.8	115	0.00
91 T	1,2-Dichlorobenzene	50.000	52.963	-5.9	110	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.587	0.8	106	0.00
93 T	1,2,4-Trichlorobenzene	50.000	56.445	-12.9	121	0.00
94 T	Hexachlorobutadiene	50.000	60.079	-20.2	132	0.00
95 T	Naphthalene	50.000	53.862	-7.7	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087847.D
Acq On : 16 Sep 2025 13:55
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Sep 17 01:19:11 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	55.379	-10.8	118	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>Q3109</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>09/17/2025 08:51</u>
Lab File ID:	<u>VX047601.D</u>	Init. Calib. Date(s):	<u>09/16/2025 09/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:23 12:01</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.588		13.51	20
Chloromethane	0.680	0.692	0.1	1.76	20
Vinyl Chloride	0.666	0.744		11.71	20
Bromomethane	0.422	0.456		8.06	20
Chloroethane	0.445	0.480		7.86	20
Trichlorofluoromethane	0.989	1.145		15.77	20
1,1,2-Trichlorotrifluoroethane	0.578	0.682		17.99	20
1,1-Dichloroethene	0.594	0.660		11.11	20
Acetone	0.346	0.406		17.34	20
Carbon Disulfide	1.626	1.690		3.94	20
Methyl tert-butyl Ether	2.169	2.249		3.69	20
Methyl Acetate	0.770	0.866		12.47	20
Methylene Chloride	0.732	0.734		0.27	20
trans-1,2-Dichloroethene	0.640	0.685		7.03	20
1,1-Dichloroethane	1.263	1.336	0.1	5.78	20
Cyclohexane	1.052	1.124		6.84	20
2-Butanone	0.432	0.454		5.09	20
Carbon Tetrachloride	0.532	0.581		9.21	20
cis-1,2-Dichloroethene	0.783	0.811		3.58	20
Bromochloromethane	0.551	0.577		4.72	20
Chloroform	1.276	1.326		3.92	20
1,1,1-Trichloroethane	1.082	1.164		7.58	20
Methylcyclohexane	0.556	0.646		16.19	20
Benzene	1.488	1.564		5.11	20
1,2-Dichloroethane	0.566	0.577		1.94	20
Trichloroethene	0.360	0.386		7.22	20
1,2-Dichloropropane	0.381	0.397		4.2	20
Bromodichloromethane	0.572	0.605		5.77	20
4-Methyl-2-Pentanone	0.477	0.481		0.84	20
Toluene	0.917	0.945		3.05	20
t-1,3-Dichloropropene	0.584	0.604		3.42	20
cis-1,3-Dichloropropene	0.624	0.650		4.17	20
1,1,2-Trichloroethane	0.354	0.354		0	20
2-Hexanone	0.343	0.342		-0.29	20
Dibromochloromethane	0.407	0.425		4.42	20
1,2-Dibromoethane	0.360	0.366		1.67	20
Tetrachloroethene	0.326	0.353		8.28	20
Chlorobenzene	1.136	1.193	0.3	5.02	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>Q3109</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>09/17/2025 08:51</u>
Lab File ID:	<u>VX047601.D</u>	Init. Calib. Date(s):	<u>09/16/2025 09/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:23 12:01</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.960	2.137		9.03	20
m/p-Xylenes	0.729	0.793		8.78	20
o-Xylene	0.706	0.757		7.22	20
Styrene	1.236	1.311		6.07	20
Bromoform	0.293	0.312	0.1	6.49	20
Isopropylbenzene	3.801	4.316		13.55	20
1,1,2,2-Tetrachloroethane	1.150	1.208	0.3	5.04	20
1,3-Dichlorobenzene	1.739	1.839		5.75	20
1,4-Dichlorobenzene	1.785	1.872		4.87	20
1,2-Dichlorobenzene	1.657	1.766		6.58	20
1,2-Dibromo-3-Chloropropane	0.233	0.247		6.01	20
1,2,4-Trichlorobenzene	1.077	1.192		10.68	20
1,2,3-Trichlorobenzene	1.002	1.099		9.68	20
1,2-Dichloroethane-d4	0.796	0.768		-3.52	20
Dibromofluoromethane	0.335	0.352		5.07	20
Toluene-d8	1.160	1.191		2.67	20
4-Bromofluorobenzene	0.440	0.448		1.82	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047601.D
 Acq On : 17 Sep 2025 08:51
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

09/18/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Sep 18 01:54:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.532	168	203321	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	347822	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	296232	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	138326	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	156158	48.251	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.500%
35) Dibromofluoromethane	5.361	113	122336	52.444	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.880%
50) Toluene-d8	8.629	98	414115	51.305	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	102.620%
62) 4-Bromofluorobenzene	11.061	95	155790	50.857	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.720%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	119481	56.749	ug/l	99
3) Chloromethane	1.301	50	140740	50.862	ug/l	100
4) Vinyl Chloride	1.380	62	151331	55.869	ug/l	100
5) Bromomethane	1.618	94	92690	53.964	ug/l	96
6) Chloroethane	1.697	64	97613	53.918	ug/l	97
7) Trichlorofluoromethane	1.892	101	232711	57.862	ug/l	96
8) Diethyl Ether	2.136	74	86715	52.708	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	138693	58.976	ug/l	99
10) Methyl Iodide	2.453	142	184404	50.278	ug/l	98
11) Tert butyl alcohol	2.941	59	88953	246.787	ug/l	99
12) 1,1-Dichloroethene	2.319	96	134210	55.558	ug/l	96
13) Acrolein	2.233	56	93978	282.934	ug/l	98
14) Allyl chloride	2.660	41	260381	52.235	ug/l	99
15) Acrylonitrile	3.050	53	346249	259.342	ug/l	100
16) Acetone	2.368	43	412272	292.978	ug/l	100
17) Carbon Disulfide	2.514	76	343597	51.957	ug/l	99
18) Methyl Acetate	2.697	43	176029	56.209	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	457213	51.848	ug/l	98
20) Methylene Chloride	2.788	84	149231	50.101	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	139328	53.572	ug/l	99
22) Diisopropyl ether	3.745	45	503750	52.144	ug/l	90
23) Vinyl Acetate	3.709	43	1974431	255.362	ug/l	99
24) 1,1-Dichloroethane	3.599	63	271584	52.891	ug/l	100
25) 2-Butanone	4.532	43	461527	262.937	ug/l	99
26) 2,2-Dichloropropane	4.465	77	232006	54.356	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	164885	51.768	ug/l	99
28) Bromochloromethane	4.879	49	117231	52.297	ug/l	100
29) Tetrahydrofuran	4.983	42	259287	245.552	ug/l	99
30) Chloroform	5.074	83	269634	51.965	ug/l	99
31) Cyclohexane	5.452	56	228628	53.460	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	236638	53.767	ug/l	100
36) 1,1-Dichloropropene	5.672	75	179063	52.533	ug/l	98
37) Ethyl Acetate	4.690	43	185174	50.738	ug/l	98
38) Carbon Tetrachloride	5.660	117	202037	54.553	ug/l	96
39) Methylcyclohexane	7.361	83	224624	58.054	ug/l	98
40) Benzene	6.019	78	543983	52.544	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047601.D
 Acq On : 17 Sep 2025 08:51
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John
 Carlone

09/18/2025

Supervised By :Mahesh
 Dadoda

Quant Time: Sep 18 01:54:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.898	41	97332	51.658	ug/l	98
42) 1,2-Dichloroethane	6.068	62	200768	50.968	ug/l	100
43) Isopropyl Acetate	6.318	43	302179	50.484	ug/l	100
44) Trichloroethene	7.104	130	134308	53.660	ug/l	99
45) 1,2-Dichloropropane	7.409	63	137917	52.025	ug/l	100
46) Dibromomethane	7.562	93	97841	50.718	ug/l	98
47) Bromodichloromethane	7.806	83	210363	52.844	ug/l	98
48) Methyl methacrylate	7.671	41	149698	50.209	ug/l	99
49) 1,4-Dioxane	7.641	88	32423	1076.055	ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	837167	252.257	ug/l	100
52) Toluene	8.702	92	328796	51.549	ug/l	98
53) t-1,3-Dichloropropene	8.958	75	209983	51.714	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	226019	52.078	ug/l	97
55) 1,1,2-Trichloroethane	9.135	97	123219	50.100	ug/l	99
56) Ethyl methacrylate	9.098	69	201937	52.281	ug/l	98
57) 1,3-Dichloropropane	9.287	76	215669	51.047	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.220	63	485057	261.994	ug/l	100
59) 2-Hexanone	9.415	43	595228	249.728	ug/l	99
60) Dibromochloromethane	9.500	129	147809	52.158	ug/l	99
61) 1,2-Dibromoethane	9.592	107	127323	50.826	ug/l	100
64) Tetrachloroethene	9.257	164	104642	54.187	ug/l	98
65) Chlorobenzene	10.061	112	353279	52.495	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	124449	53.589	ug/l	100
67) Ethyl Benzene	10.177	91	632906	54.505	ug/l	99
68) m/p-Xylenes	10.281	106	469648	108.664	ug/l	100
69) o-Xylene	10.622	106	224265	53.647	ug/l	100
70) Styrene	10.634	104	388352	53.018	ug/l	100
71) Bromoform	10.781	173	92500	53.344	ug/l #	99
73) Isopropylbenzene	10.945	105	597002	56.769	ug/l	100
74) N-amyl acetate	10.823	43	255134	53.201	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	167142	52.532	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	134404m	47.990	ug/l	
77) Bromobenzene	11.177	156	139045	53.683	ug/l	98
78) n-propylbenzene	11.287	91	700672	56.362	ug/l	100
79) 2-Chlorotoluene	11.348	91	414287	54.410	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	480850	55.653	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	58064	52.870	ug/l	97
82) 4-Chlorotoluene	11.433	91	491100	54.611	ug/l	100
83) tert-Butylbenzene	11.695	119	497751	56.276	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	478593	54.636	ug/l	100
85) sec-Butylbenzene	11.872	105	604477	57.537	ug/l	100
86) p-Isopropyltoluene	11.988	119	502524	56.500	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	254401	52.880	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	258994	52.453	ug/l	100
89) n-Butylbenzene	12.311	91	478143	58.099	ug/l	99
90) Hexachloroethane	12.518	117	89396	57.248	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	244300	53.301	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.921	75	34194	53.081	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	164946	55.373	ug/l	98
94) Hexachlorobutadiene	13.707	225	59191	58.500	ug/l	99
95) Naphthalene	13.756	128	470770	51.900	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	152049	54.873	ug/l	100

09/18/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047601.D
Acq On : 17 Sep 2025 08:51
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 01:54:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John
Carlone

09/18/2025
Supervised By :Mahesh
Dadoda

09/18/2025

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
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Instrument :
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ClientSampleId :
VSTDCCC050

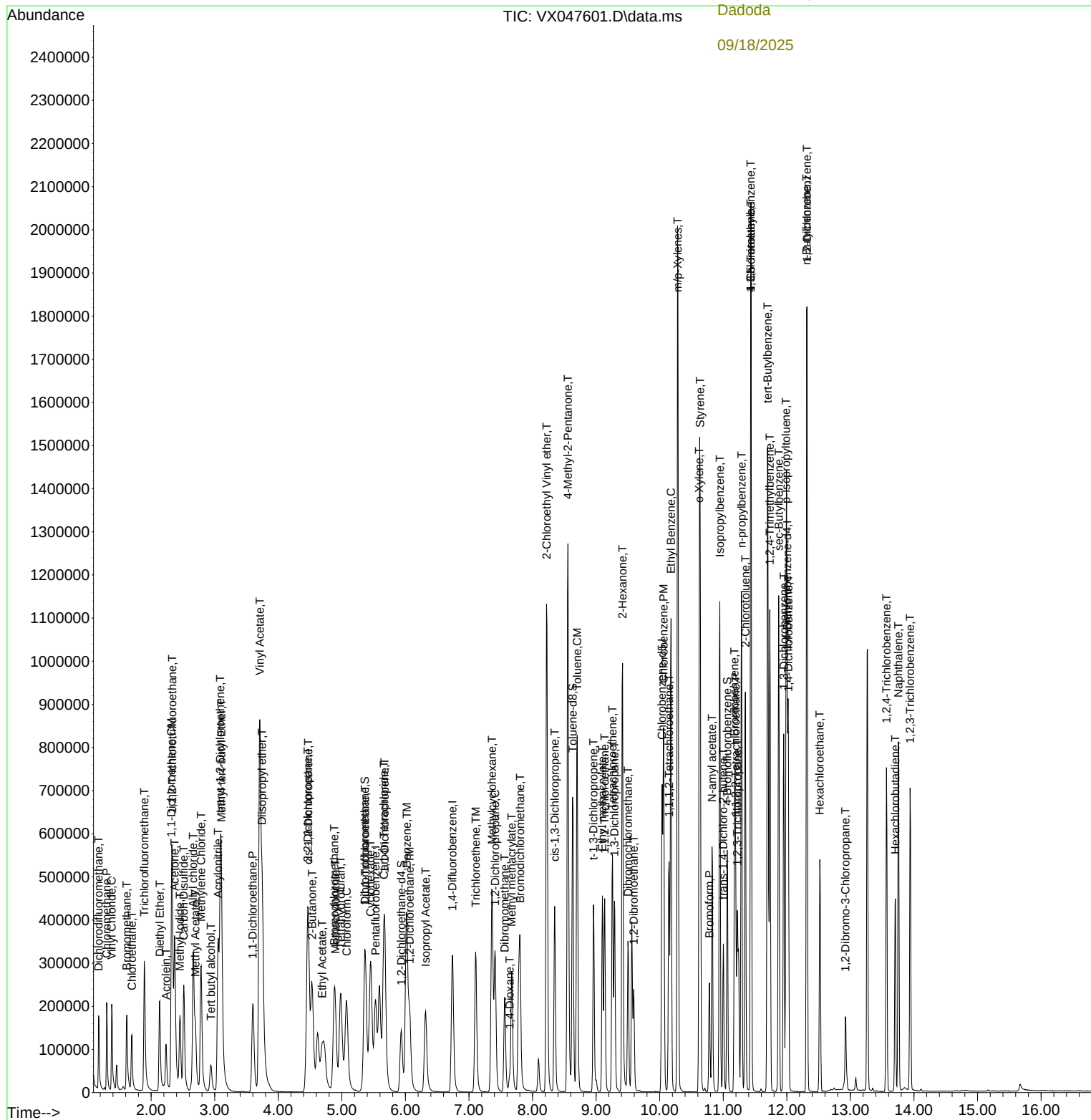
Manual Integrations APPROVED

Reviewed By :John
Carlone

09/18/2025
Supervised By :Mahesh
Dadoda

09/18/2025

Quant Time: Sep 18 01:54:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
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 Operator : JC/MD
 Sample : VSTDCCC050
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 MSVOA_X
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Quant Time: Sep 18 01:54:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	117	-0.01
2 T	Dichlorodifluoromethane	0.518	0.588	-13.5	138	0.00
3 P	Chloromethane	0.680	0.692	-1.8	123	0.00
4 C	Vinyl Chloride	0.666	0.744	-11.7#	132	0.00
5 T	Bromomethane	0.422	0.456	-8.1	126	0.00
6 T	Chloroethane	0.445	0.480	-7.9	127	0.00
7 T	Trichlorofluoromethane	0.989	1.145	-15.8	135	0.00
8 T	Diethyl Ether	0.405	0.426	-5.2	122	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.578	0.682	-18.0	137	0.00
10 T	Methyl Iodide	0.902	0.907	-0.6	117	0.00
11 T	Tert butyl alcohol	0.089	0.088	1.1	115	0.00
12 CM	1,1-Dichloroethene	0.594	0.660	-11.1#	128	0.00
13 T	Acrolein	0.082	0.092	-12.2	133	0.00
14 T	Allyl chloride	1.226	1.281	-4.5	124	0.00
15 T	Acrylonitrile	0.328	0.341	-4.0	115	-0.01
16 T	Acetone	0.346	0.406	-17.3	150	0.00
17 T	Carbon Disulfide	1.626	1.690	-3.9	127	0.00
18 T	Methyl Acetate	0.770	0.866	-12.5	116	0.00
19 T	Methyl tert-butyl Ether	2.169	2.249	-3.7	117	0.00
20 T	Methylene Chloride	0.732	0.734	-0.3	118	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.685	-7.0	124	0.00
22 T	Diisopropyl ether	2.376	2.478	-4.3	117	-0.01
23 T	Vinyl Acetate	1.901	1.942	-2.2	114	0.00
24 P	1,1-Dichloroethane	1.263	1.336	-5.8	121	0.00
25 T	2-Butanone	0.432	0.454	-5.1	121	0.00
26 T	2,2-Dichloropropane	1.050	1.141	-8.7	125	0.00
27 T	cis-1,2-Dichloroethene	0.783	0.811	-3.6	118	-0.01
28 T	Bromochloromethane	0.551	0.577	-4.7	117	-0.01
29 T	Tetrahydrofuran	0.260	0.255	1.9	109	0.00
30 C	Chloroform	1.276	1.326	-3.9#	118	0.00
31 T	Cyclohexane	1.052	1.124	-6.8	128	0.00
32 T	1,1,1-Trichloroethane	1.082	1.164	-7.6	121	0.00
33 S	1,2-Dichloroethane-d4	0.796	0.768	3.5	117	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	113	0.00
35 S	Dibromofluoromethane	0.335	0.352	-5.1	120	-0.01
36 T	1,1-Dichloropropene	0.490	0.515	-5.1	120	-0.01
37 T	Ethyl Acetate	0.525	0.532	-1.3	113	-0.01
38 T	Carbon Tetrachloride	0.532	0.581	-9.2	122	-0.01
39 T	Methylcyclohexane	0.556	0.646	-16.2	129	0.00
40 TM	Benzene	1.488	1.564	-5.1	116	0.00
41 T	Methacrylonitrile	0.271	0.280	-3.3	111	0.00
42 TM	1,2-Dichloroethane	0.566	0.577	-1.9	112	0.00
43 T	Isopropyl Acetate	0.860	0.869	-1.0	110	0.00
44 TM	Trichloroethene	0.360	0.386	-7.2	118	0.00
45 C	1,2-Dichloropropane	0.381	0.397	-4.2#	113	0.00
46 T	Dibromomethane	0.277	0.281	-1.4	111	0.00
47 T	Bromodichloromethane	0.572	0.605	-5.8	113	0.00
48 T	Methyl methacrylate	0.429	0.430	-0.2	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047601.D
 Acq On : 17 Sep 2025 08:51
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 18 01:54:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	110	0.00
50 S	Toluene-d8	1.160	1.191	-2.7	117	0.00
51 T	4-Methyl-2-Pentanone	0.477	0.481	-0.8	107	0.00
52 CM	Toluene	0.917	0.945	-3.1#	114	0.00
53 T	t-1,3-Dichloropropene	0.584	0.604	-3.4	110	0.00
54 T	cis-1,3-Dichloropropene	0.624	0.650	-4.2	113	0.00
55 T	1,1,2-Trichloroethane	0.354	0.354	0.0	109	0.00
56 T	Ethyl methacrylate	0.555	0.581	-4.7	110	0.00
57 T	1,3-Dichloropropane	0.607	0.620	-2.1	110	0.00
58 T	2-Chloroethyl Vinyl ether	0.227	0.279	-22.9	116	0.00
59 T	2-Hexanone	0.343	0.342	0.3	108	0.00
60 T	Dibromochloromethane	0.407	0.425	-4.4	111	0.00
61 T	1,2-Dibromoethane	0.360	0.366	-1.7	109	0.00
62 S	4-Bromofluorobenzene	0.440	0.448	-1.8	119	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
64 T	Tetrachloroethene	0.326	0.353	-8.3	119	0.00
65 PM	Chlorobenzene	1.136	1.193	-5.0	111	0.00
66 T	1,1,1,2-Tetrachloroethane	0.392	0.420	-7.1	111	0.00
67 C	Ethyl Benzene	1.960	2.137	-9.0#	115	0.00
68 T	m/p-Xylenes	0.729	0.793	-8.8	114	0.00
69 T	o-Xylene	0.706	0.757	-7.2	111	0.00
70 T	Styrene	1.236	1.311	-6.1	111	0.00
71 P	Bromoform	0.293	0.312	-6.5	109	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	3.801	4.316	-13.5	115	0.00
74 T	N-amyl acetate	1.733	1.844	-6.4	107	0.00
75 P	1,1,2,2-Tetrachloroethane	1.150	1.208	-5.0	107	0.00
76 T	1,2,3-Trichloropropane	1.012	0.972	4.0	93	0.00
77 T	Bromobenzene	0.936	1.005	-7.4	110	0.00
78 T	n-propylbenzene	4.494	5.065	-12.7	114	0.00
79 T	2-Chlorotoluene	2.752	2.995	-8.8	111	0.00
80 T	1,3,5-Trimethylbenzene	3.123	3.476	-11.3	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.397	0.420	-5.8	110	0.00
82 T	4-Chlorotoluene	3.251	3.550	-9.2	112	0.00
83 T	tert-Butylbenzene	3.197	3.598	-12.5	116	0.00
84 T	1,2,4-Trimethylbenzene	3.166	3.460	-9.3	112	0.00
85 T	sec-Butylbenzene	3.797	4.370	-15.1	118	0.00
86 T	p-Isopropyltoluene	3.215	3.633	-13.0	115	0.00
87 T	1,3-Dichlorobenzene	1.739	1.839	-5.8	110	0.00
88 T	1,4-Dichlorobenzene	1.785	1.872	-4.9	111	0.00
89 T	n-Butylbenzene	2.975	3.457	-16.2	119	0.00
90 T	Hexachloroethane	0.564	0.646	-14.5	118	0.00
91 T	1,2-Dichlorobenzene	1.657	1.766	-6.6	110	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.247	-6.0	105	0.00
93 T	1,2,4-Trichlorobenzene	1.077	1.192	-10.7	112	0.00
94 T	Hexachlorobutadiene	0.366	0.428	-16.9	121	0.00
95 T	Naphthalene	3.279	3.403	-3.8	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047601.D
Acq On : 17 Sep 2025 08:51
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 18 01:54:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.099	-9.7	109	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047601.D
 Acq On : 17 Sep 2025 08:51
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 18 01:54:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	117	-0.01
2 T	Dichlorodifluoromethane	50.000	56.749	-13.5	138	0.00
3 P	Chloromethane	50.000	50.862	-1.7	123	0.00
4 C	Vinyl Chloride	50.000	55.869	-11.7#	132	0.00
5 T	Bromomethane	50.000	53.964	-7.9	126	0.00
6 T	Chloroethane	50.000	53.918	-7.8	127	0.00
7 T	Trichlorofluoromethane	50.000	57.862	-15.7	135	0.00
8 T	Diethyl Ether	50.000	52.708	-5.4	122	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	58.976	-18.0	137	0.00
10 T	Methyl Iodide	50.000	50.278	-0.6	117	0.00
11 T	Tert butyl alcohol	250.000	246.787	1.3	115	0.00
12 CM	1,1-Dichloroethene	50.000	55.558	-11.1#	128	0.00
13 T	Acrolein	250.000	282.934	-13.2	133	0.00
14 T	Allyl chloride	50.000	52.235	-4.5	124	0.00
15 T	Acrylonitrile	250.000	259.342	-3.7	115	-0.01
16 T	Acetone	250.000	292.978	-17.2	150	0.00
17 T	Carbon Disulfide	50.000	51.957	-3.9	127	0.00
18 T	Methyl Acetate	50.000	56.209	-12.4	116	0.00
19 T	Methyl tert-butyl Ether	50.000	51.848	-3.7	117	0.00
20 T	Methylene Chloride	50.000	50.101	-0.2	118	0.00
21 T	trans-1,2-Dichloroethene	50.000	53.572	-7.1	124	0.00
22 T	Diisopropyl ether	50.000	52.144	-4.3	117	-0.01
23 T	Vinyl Acetate	250.000	255.362	-2.1	114	0.00
24 P	1,1-Dichloroethane	50.000	52.891	-5.8	121	0.00
25 T	2-Butanone	250.000	262.937	-5.2	121	0.00
26 T	2,2-Dichloropropane	50.000	54.356	-8.7	125	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.768	-3.5	118	-0.01
28 T	Bromochloromethane	50.000	52.297	-4.6	117	-0.01
29 T	Tetrahydrofuran	250.000	245.552	1.8	109	0.00
30 C	Chloroform	50.000	51.965	-3.9#	118	0.00
31 T	Cyclohexane	50.000	53.460	-6.9	128	0.00
32 T	1,1,1-Trichloroethane	50.000	53.767	-7.5	121	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.251	3.5	117	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	113	0.00
35 S	Dibromofluoromethane	50.000	52.444	-4.9	120	-0.01
36 T	1,1-Dichloropropene	50.000	52.533	-5.1	120	-0.01
37 T	Ethyl Acetate	50.000	50.738	-1.5	113	-0.01
38 T	Carbon Tetrachloride	50.000	54.553	-9.1	122	-0.01
39 T	Methylcyclohexane	50.000	58.054	-16.1	129	0.00
40 TM	Benzene	50.000	52.544	-5.1	116	0.00
41 T	Methacrylonitrile	50.000	51.658	-3.3	111	0.00
42 TM	1,2-Dichloroethane	50.000	50.968	-1.9	112	0.00
43 T	Isopropyl Acetate	50.000	50.484	-1.0	110	0.00
44 TM	Trichloroethene	50.000	53.660	-7.3	118	0.00
45 C	1,2-Dichloropropane	50.000	52.025	-4.0#	113	0.00
46 T	Dibromomethane	50.000	50.718	-1.4	111	0.00
47 T	Bromodichloromethane	50.000	52.844	-5.7	113	0.00
48 T	Methyl methacrylate	50.000	50.209	-0.4	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047601.D
 Acq On : 17 Sep 2025 08:51
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 18 01:54:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 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	1076.055	-7.6	110	0.00
50 S	Toluene-d8	50.000	51.305	-2.6	117	0.00
51 T	4-Methyl-2-Pentanone	250.000	252.257	-0.9	107	0.00
52 CM	Toluene	50.000	51.549	-3.1#	114	0.00
53 T	t-1,3-Dichloropropene	50.000	51.714	-3.4	110	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.078	-4.2	113	0.00
55 T	1,1,2-Trichloroethane	50.000	50.100	-0.2	109	0.00
56 T	Ethyl methacrylate	50.000	52.281	-4.6	110	0.00
57 T	1,3-Dichloropropane	50.000	51.047	-2.1	110	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	261.994	-4.8	116	0.00
59 T	2-Hexanone	250.000	249.728	0.1	108	0.00
60 T	Dibromochloromethane	50.000	52.158	-4.3	111	0.00
61 T	1,2-Dibromoethane	50.000	50.826	-1.7	109	0.00
62 S	4-Bromofluorobenzene	50.000	50.857	-1.7	119	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	110	0.00
64 T	Tetrachloroethene	50.000	54.187	-8.4	119	0.00
65 PM	Chlorobenzene	50.000	52.495	-5.0	111	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.589	-7.2	111	0.00
67 C	Ethyl Benzene	50.000	54.505	-9.0#	115	0.00
68 T	m/p-Xylenes	100.000	108.664	-8.7	114	0.00
69 T	o-Xylene	50.000	53.647	-7.3	111	0.00
70 T	Styrene	50.000	53.018	-6.0	111	0.00
71 P	Bromoform	50.000	53.344	-6.7	109	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	56.769	-13.5	115	0.00
74 T	N-ethyl acetate	50.000	53.201	-6.4	107	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.532	-5.1	107	0.00
76 T	1,2,3-Trichloropropane	50.000	47.990	4.0	93	0.00
77 T	Bromobenzene	50.000	53.683	-7.4	110	0.00
78 T	n-propylbenzene	50.000	56.362	-12.7	114	0.00
79 T	2-Chlorotoluene	50.000	54.410	-8.8	111	0.00
80 T	1,3,5-Trimethylbenzene	50.000	55.653	-11.3	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.870	-5.7	110	0.00
82 T	4-Chlorotoluene	50.000	54.611	-9.2	112	0.00
83 T	tert-Butylbenzene	50.000	56.276	-12.6	116	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.636	-9.3	112	0.00
85 T	sec-Butylbenzene	50.000	57.537	-15.1	118	0.00
86 T	p-Isopropyltoluene	50.000	56.500	-13.0	115	0.00
87 T	1,3-Dichlorobenzene	50.000	52.880	-5.8	110	0.00
88 T	1,4-Dichlorobenzene	50.000	52.453	-4.9	111	0.00
89 T	n-Butylbenzene	50.000	58.099	-16.2	119	0.00
90 T	Hexachloroethane	50.000	57.248	-14.5	118	0.00
91 T	1,2-Dichlorobenzene	50.000	53.301	-6.6	110	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.081	-6.2	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	55.373	-10.7	112	0.00
94 T	Hexachlorobutadiene	50.000	58.500	-17.0	121	0.00
95 T	Naphthalene	50.000	51.900	-3.8	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047601.D
Acq On : 17 Sep 2025 08:51
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Sep 18 01:54:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.873	-9.7	109	0.00

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



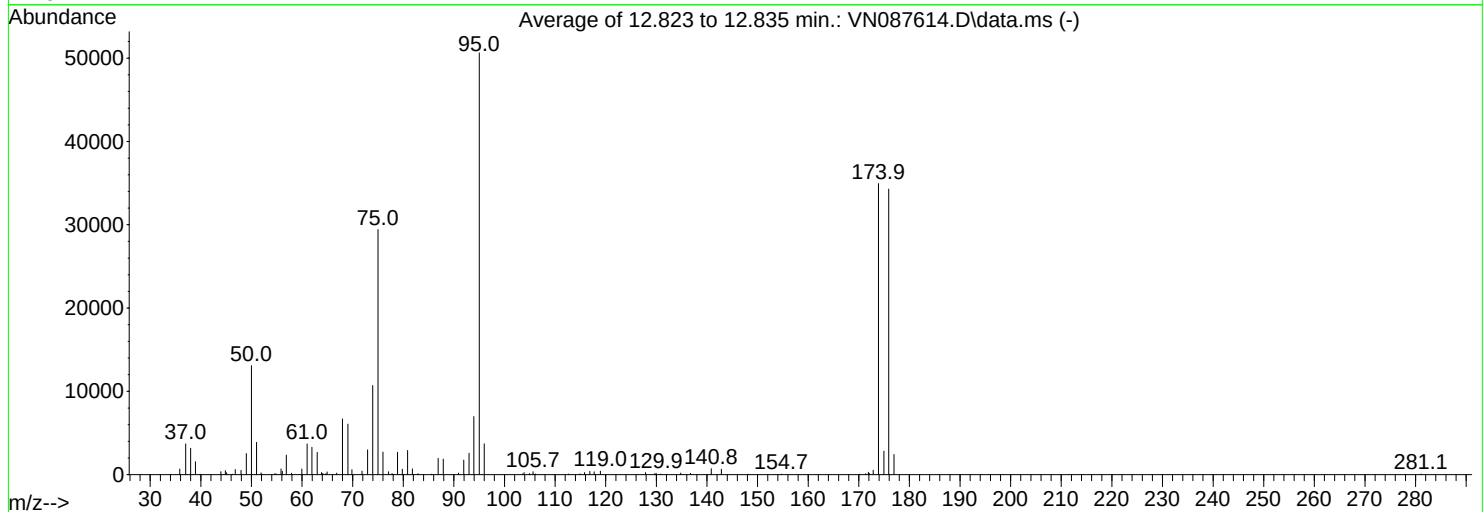
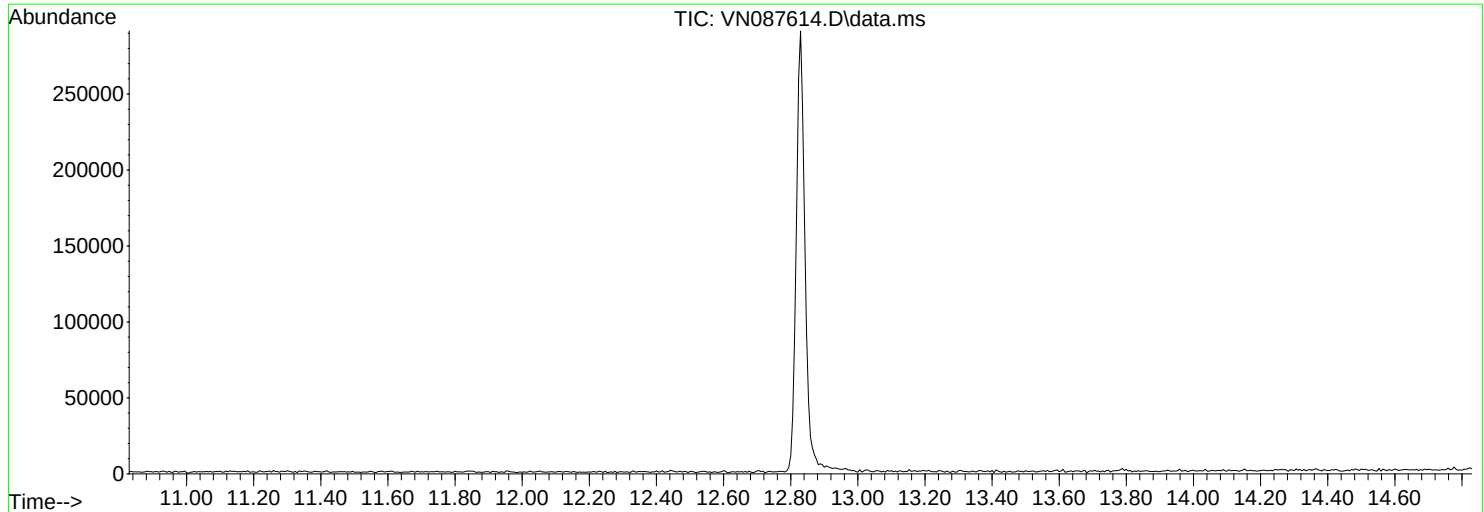
QC SAMPLE DATA

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

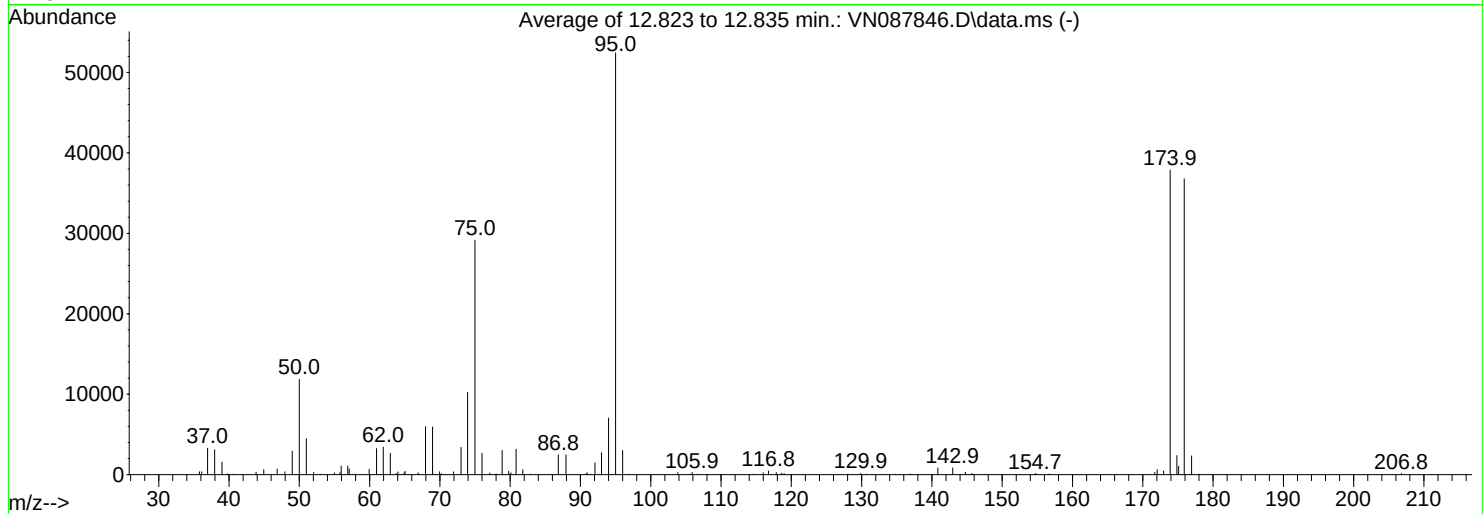
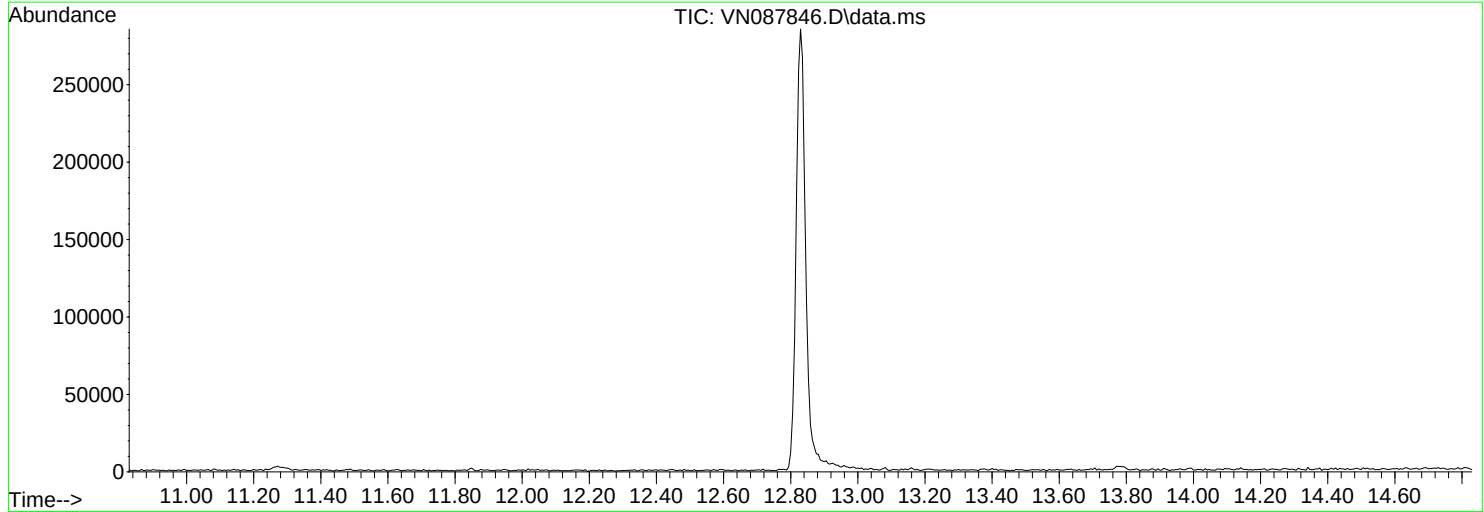
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.80	684	103.60	98	127.85	257	171.40	114
82.90	109	103.85	252	129.70	113	171.90	297
85.60	55	104.95	136	129.95	176	172.10	131
86.90	1959	105.65	343	130.90	79	172.85	548
87.90	1858	106.10	71	134.80	197	173.90	34952
90.90	194	112.70	85	136.75	152	174.95	2829
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\VN091625\
Data File : VN087846.D
Acq On : 16 Sep 2025 11:25
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	22.6	11850	PASS
75	95	30	60	55.6	29149	PASS
95	95	100	100	100.0	52435	PASS
96	95	5	9	5.7	2999	PASS
173	174	0.00	2	1.2	466	PASS
174	95	50	100	72.2	37872	PASS
175	174	5	9	6.2	2358	PASS
176	174	95	101	97.1	36771	PASS
177	176	5	9	6.4	2336	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	361	49.00	2930	59.95	667	69.95	361
36.10	361	50.00	11850	61.00	3247	70.20	121
36.95	3281	51.00	4457	61.95	3431	71.95	341
37.95	3093	52.05	288	62.95	2675	73.00	338
39.00	1561	53.10	63	63.80	144	73.95	10235
39.85	116	55.00	226	64.05	348	75.00	29149
40.70	59	55.80	251	64.90	231	76.00	2657
43.85	301	55.95	1085	65.05	429	77.10	206
44.95	618	56.90	1074	66.90	225	78.00	109
46.85	705	57.10	720	67.95	5973	78.85	3026
47.95	367	58.00	68	68.95	5920	79.80	422

Average of 12.823 to 12.835 min.: VN087846.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.10	228	95.00	52435	118.65	204	147.70	52
80.85	3158	96.00	2999	119.00	126	154.70	155
81.80	617	96.90	59	128.00	56	154.90	50
82.90	65	103.85	258	129.90	169	156.70	77
86.85	2475	105.70	66	130.70	55	171.70	277
87.95	2474	105.90	277	134.80	63	172.05	640
90.80	113	106.70	61	136.90	80	172.95	466
90.95	239	114.60	54	140.85	831	173.90	37872
92.05	1472	116.00	233	142.95	841	174.85	2358
93.00	2719	116.75	469	144.75	295	175.10	1042
94.00	7032	117.85	274	145.70	154	175.90	36771

Average of 12.823 to 12.835 min.: VN087846.D\data.ms

BFB

Modified:subtracted

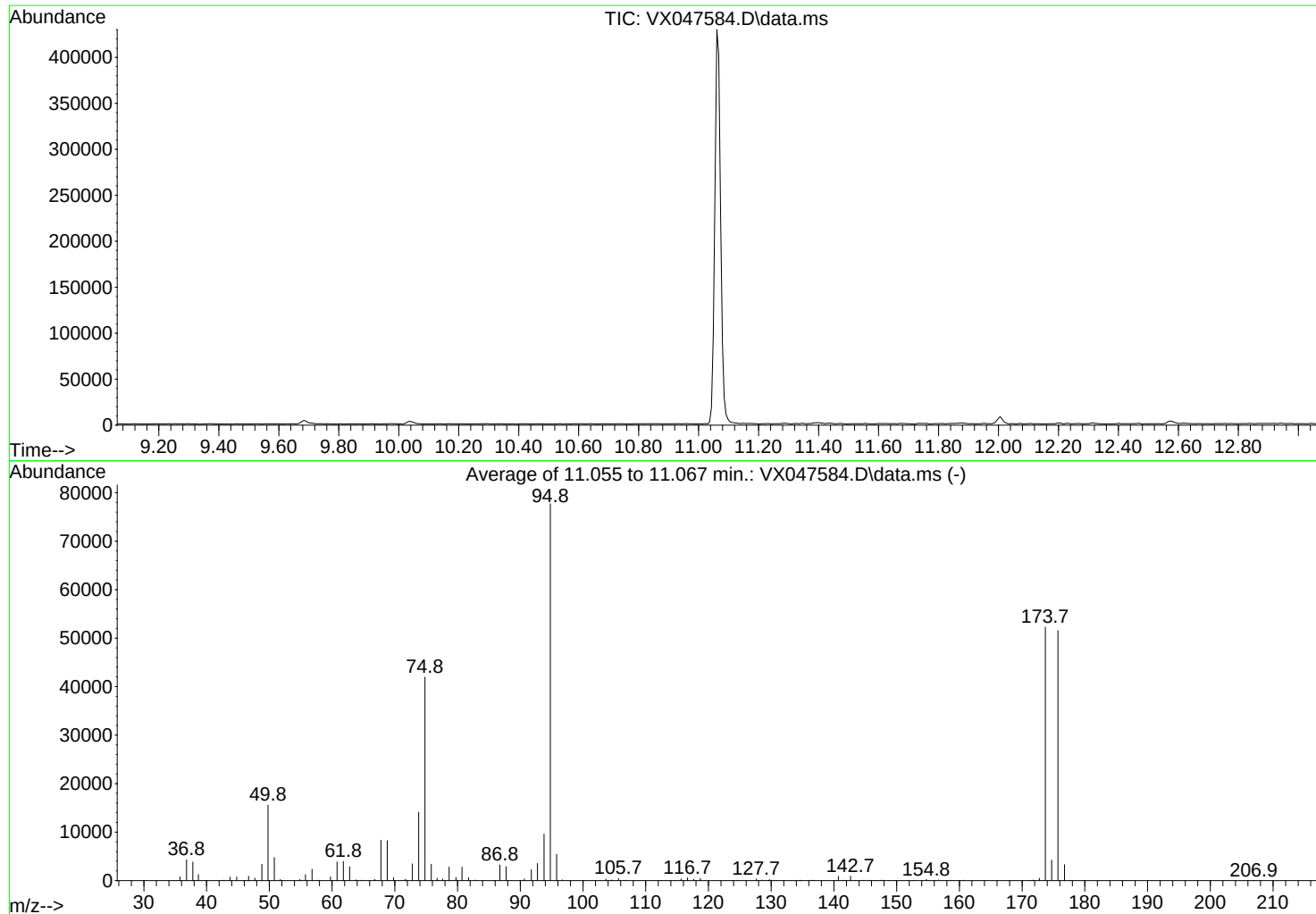
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.95	2336						
178.00	53						
206.80	138						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047584.D
Acq On : 16 Sep 2025 08:56
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



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

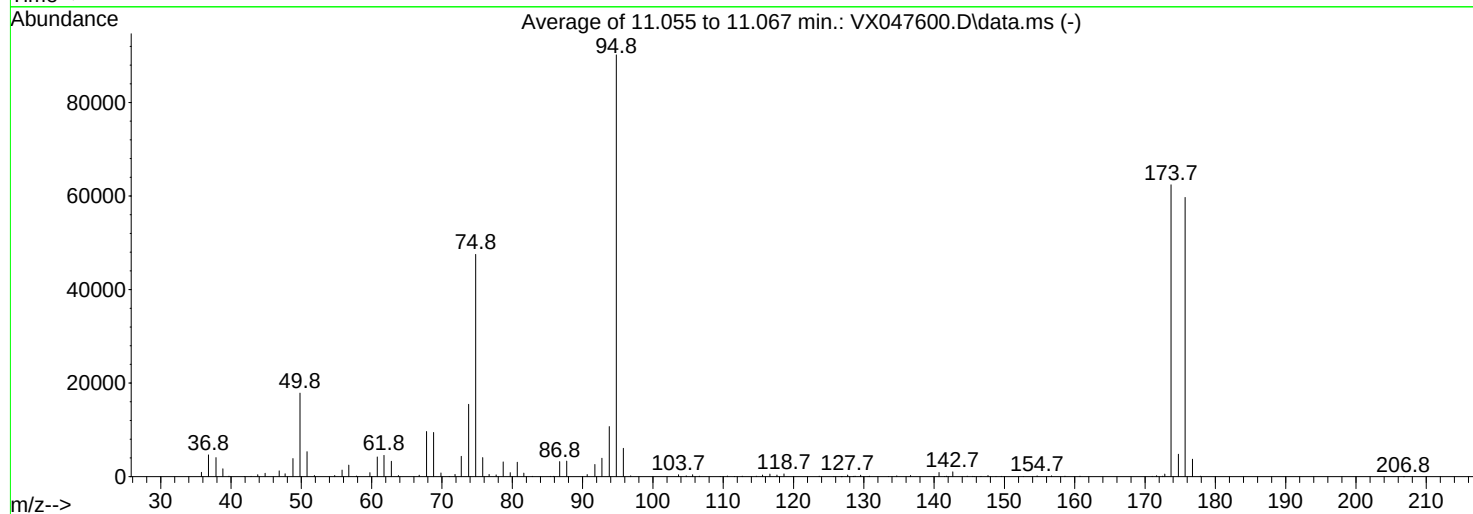
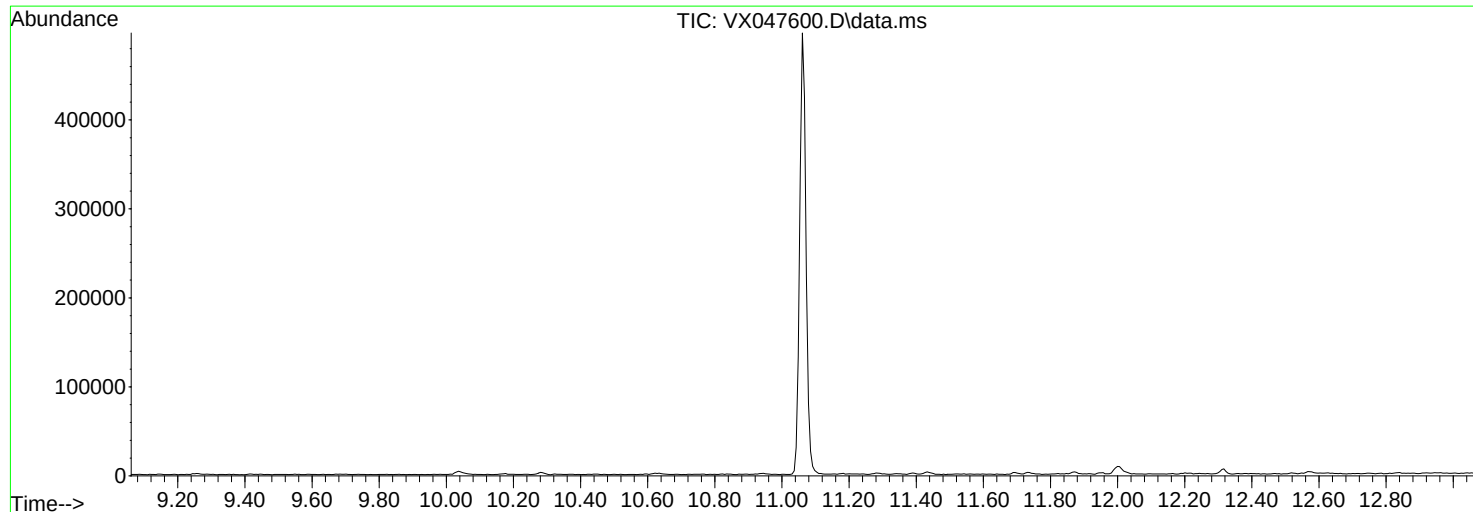
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047600.D
Acq On : 17 Sep 2025 08:19
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.8	17853	PASS
75	95	30	60	52.7	47523	PASS
95	95	100	100	100.0	90184	PASS
96	95	5	9	6.7	6058	PASS
173	174	0.00	2	0.9	559	PASS
174	95	50	100	69.2	62387	PASS
175	174	5	9	7.7	4803	PASS
176	174	95	101	95.7	59680	PASS
177	176	5	9	6.3	3747	PASS

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Metuchen	Date Received:	
Client Sample ID:	VN0916WBL01	SDG No.:	Q3109
Lab Sample ID:	VN0916WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087849.D	1	09/16/25 15:04	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Metuchen			Date Received:	
Client Sample ID:	VN0916WBL01			SDG No.:	Q3109
Lab Sample ID:	VN0916WBL01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087849.D	1	09/16/25 15:04	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	47.1		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	8.206			
540-36-3	1,4-Difluorobenzene	414000	9.082			
3114-55-4	Chlorobenzene-d5	397000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	180000	13.77			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Metuchen	Date Received:	
Client Sample ID:	VN0916WBL01	SDG No.:	Q3109
Lab Sample ID:	VN0916WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087849.D	1	09/16/25 15:04	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VN091625\
 Data File : VN087849.D
 Acq On : 16 Sep 2025 15:04
 Operator : JC\MD
 Sample : VN0916WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBL01

Quant Time: Sep 17 01:20:42 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	184438	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	413572	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	397360	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	180365	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	185379	49.056	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.120%
35) Dibromofluoromethane	8.153	113	151424	50.712	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.420%
50) Toluene-d8	10.547	98	526852	47.141	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.280%
62) 4-Bromofluorobenzene	12.829	95	181702	45.717	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.440%

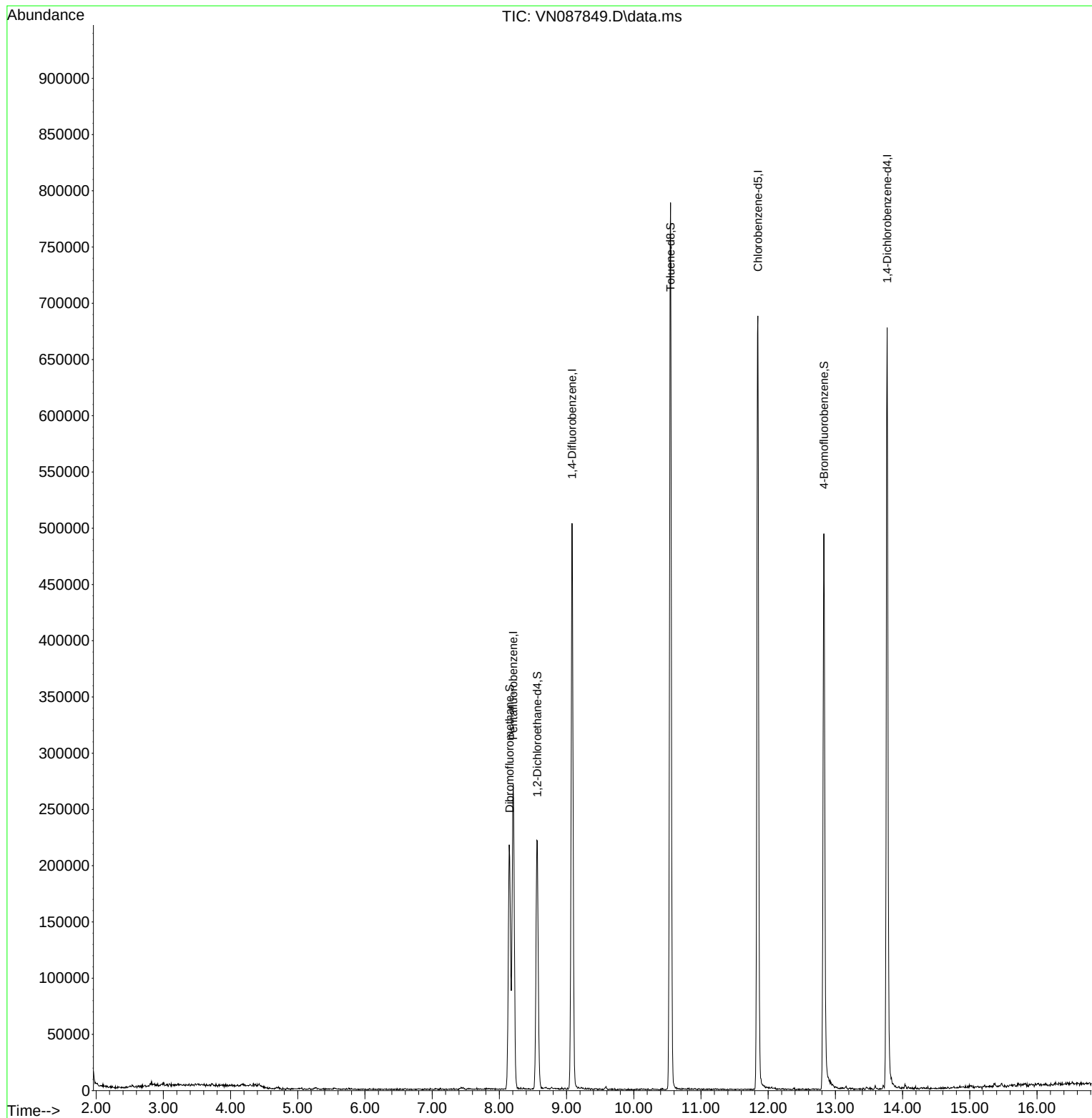
Target Compounds	Qvalue

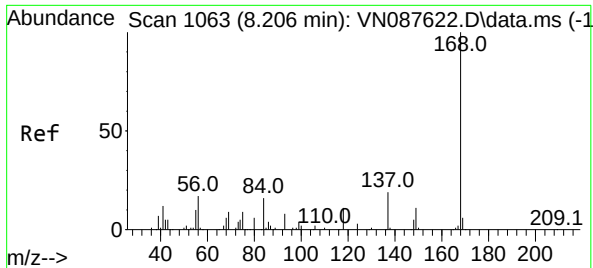
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087849.D
Acq On : 16 Sep 2025 15:04
Operator : JC\MD
Sample : VN0916WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

Quant Time: Sep 17 01:20:42 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

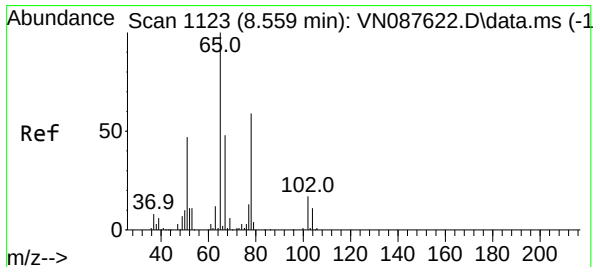
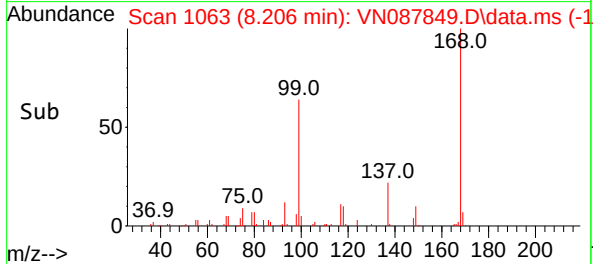
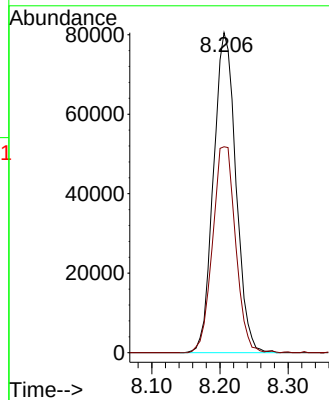
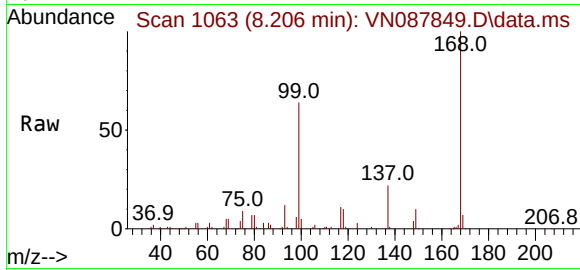




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087849.D
Acq: 16 Sep 2025 15:04

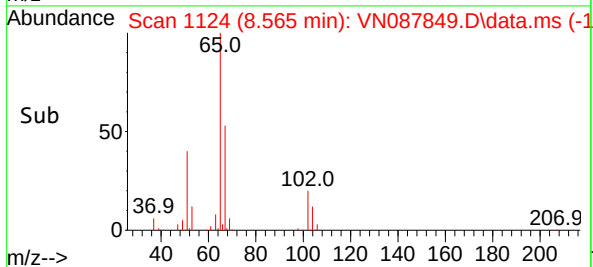
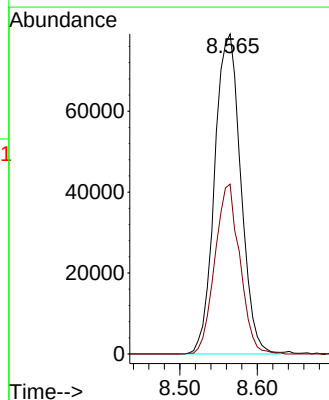
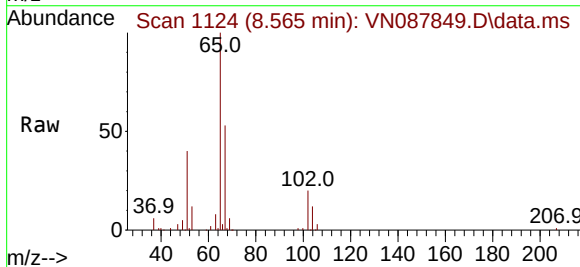
Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

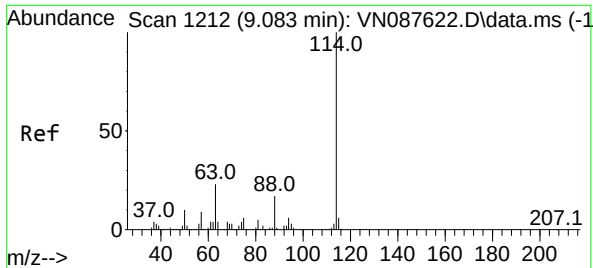
Tgt Ion:168 Resp: 184438
Ion Ratio Lower Upper
168 100
99 64.4 57.2 85.8



#33
1,2-Dichloroethane-d4
Concen: 49.056 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087849.D
Acq: 16 Sep 2025 15:04

Tgt Ion: 65 Resp: 185379
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# 1

Delta R.T. -0.000 min

Lab File: VN087849.D

Acq: 16 Sep 2025 15:04

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBL01

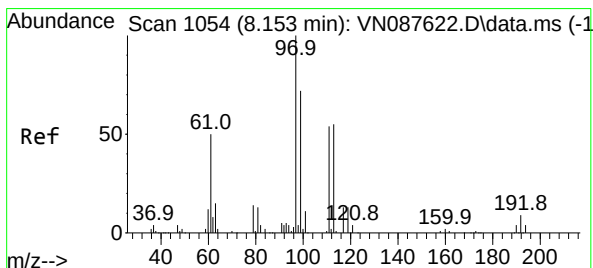
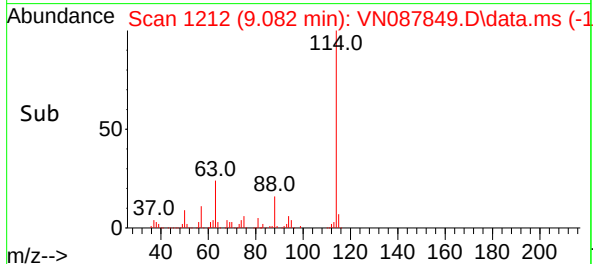
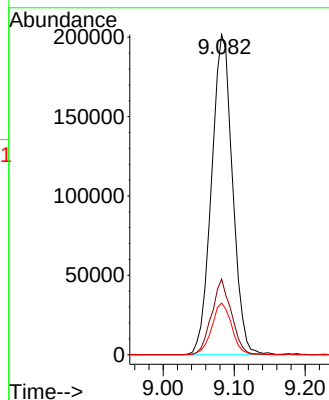
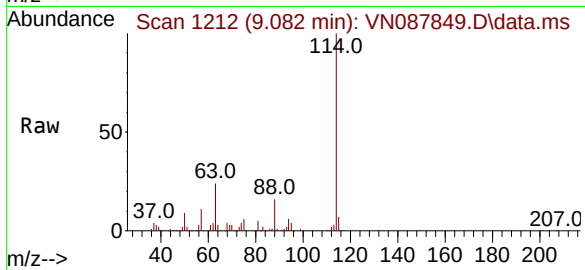
Tgt Ion:114 Resp: 413572

Ion Ratio Lower Upper

114 100

63 23.6 0.0 45.2

88 16.1 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.712 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN087849.D

Acq: 16 Sep 2025 15:04

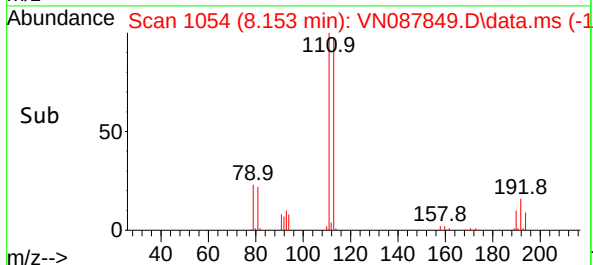
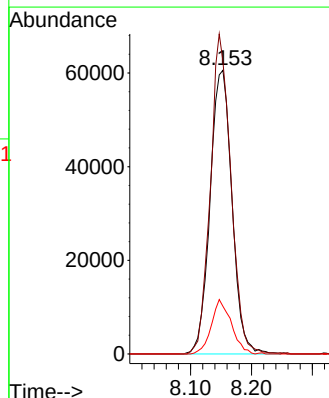
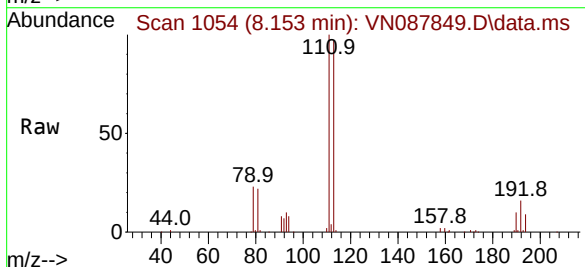
Tgt Ion:113 Resp: 151424

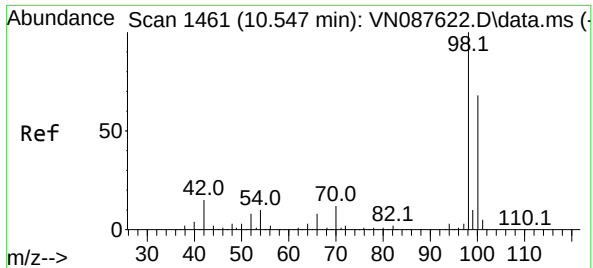
Ion Ratio Lower Upper

113 100

111 105.6 82.8 124.2

192 17.5 12.8 19.2

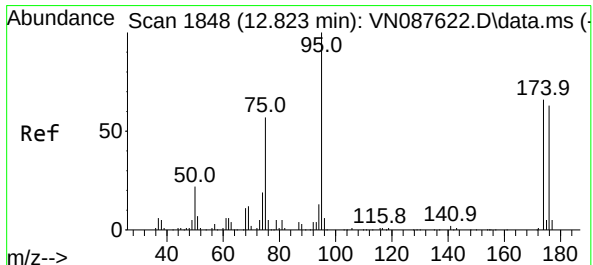
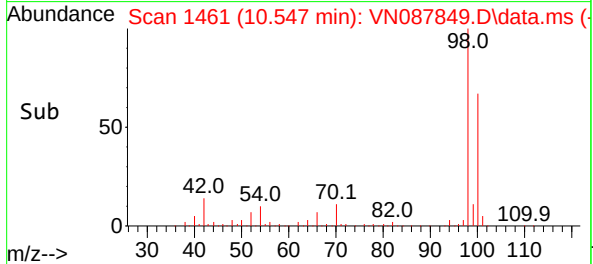
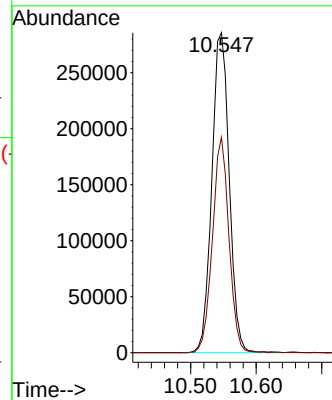
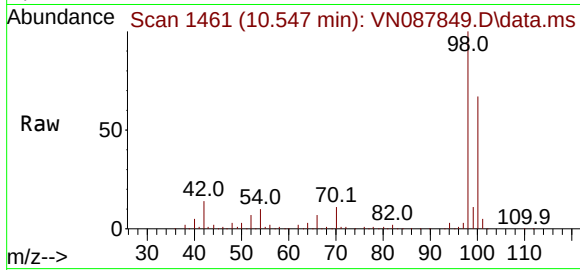




#50
Toluene-d8
Concen: 47.141 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087849.D
Acq: 16 Sep 2025 15:04

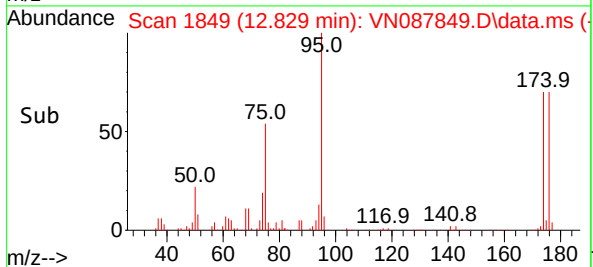
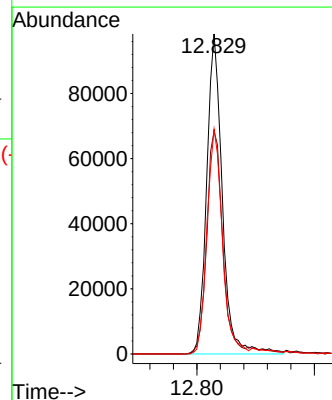
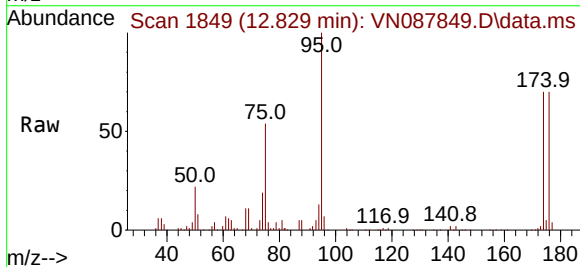
Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

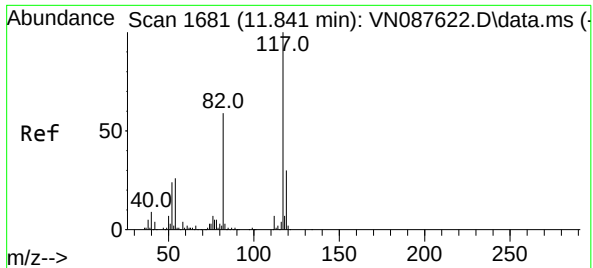
Tgt Ion: 98 Resp: 526852
Ion Ratio Lower Upper
98 100
100 63.8 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 45.717 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087849.D
Acq: 16 Sep 2025 15:04

Tgt Ion: 95 Resp: 181702
Ion Ratio Lower Upper
95 100
174 70.5 0.0 138.4
176 69.5 0.0 132.6

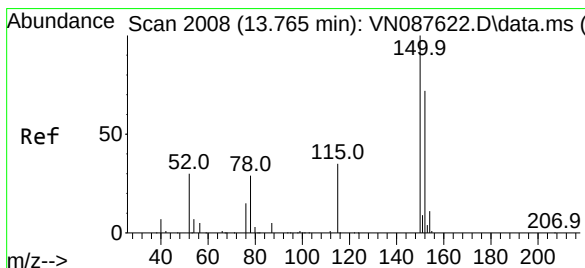
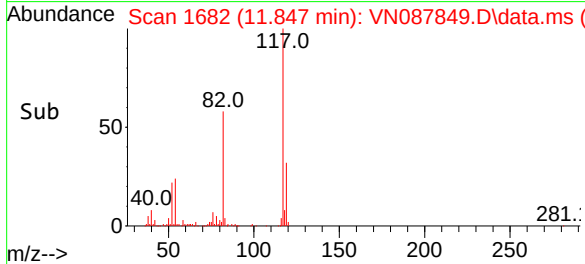
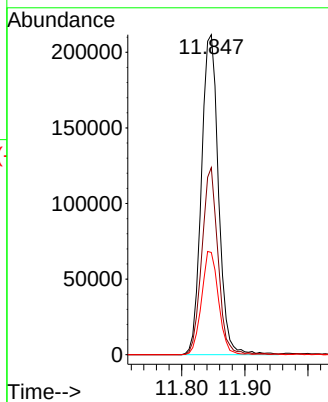
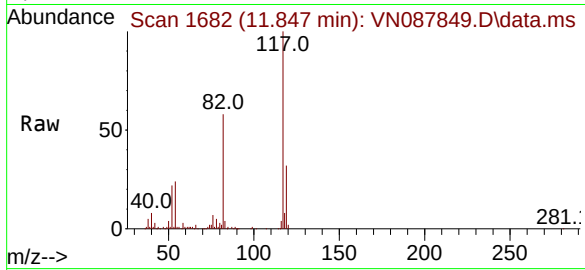




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087849.D
Acq: 16 Sep 2025 15:04

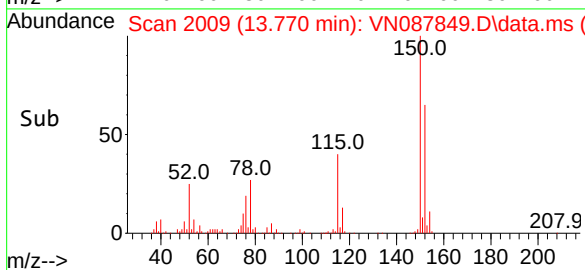
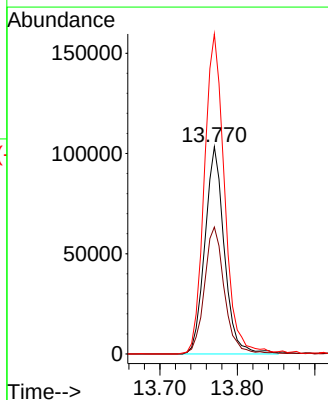
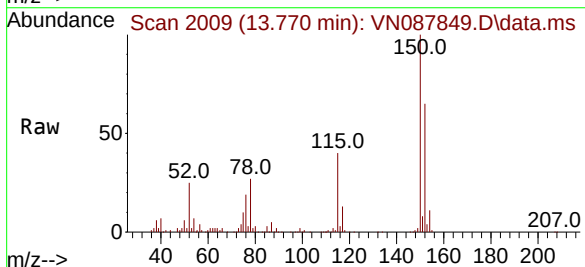
Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

Tgt Ion:117 Resp: 397360
Ion Ratio Lower Upper
117 100
82 58.5 47.4 71.2
119 32.0 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087849.D
Acq: 16 Sep 2025 15:04

Tgt Ion:152 Resp: 180365
Ion Ratio Lower Upper
152 100
115 63.1 32.3 96.8
150 160.4 0.0 351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087849.D
Acq On : 16 Sep 2025 15:04
Operator : JC\MD
Sample : VN0916WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

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: VN087849.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	1044	1053	1058	rBV	217286	512837	35.66%	6.825%
2	8.206	1058	1063	1073	rVB	270213	615648	42.81%	8.193%
3	8.559	1113	1123	1134	rBV	221203	516141	35.89%	6.869%
4	9.082	1202	1212	1222	rBV	503112	1018929	70.85%	13.560%
5	10.547	1452	1461	1473	rBV	787892	1438217	100.00%	19.140%
6	11.847	1673	1682	1694	rBV	687777	1276705	88.77%	16.990%
7	12.829	1840	1849	1864	rBV	494300	931268	64.75%	12.393%
8	13.770	2002	2009	2023	rBV	675612	1204512	83.75%	16.030%

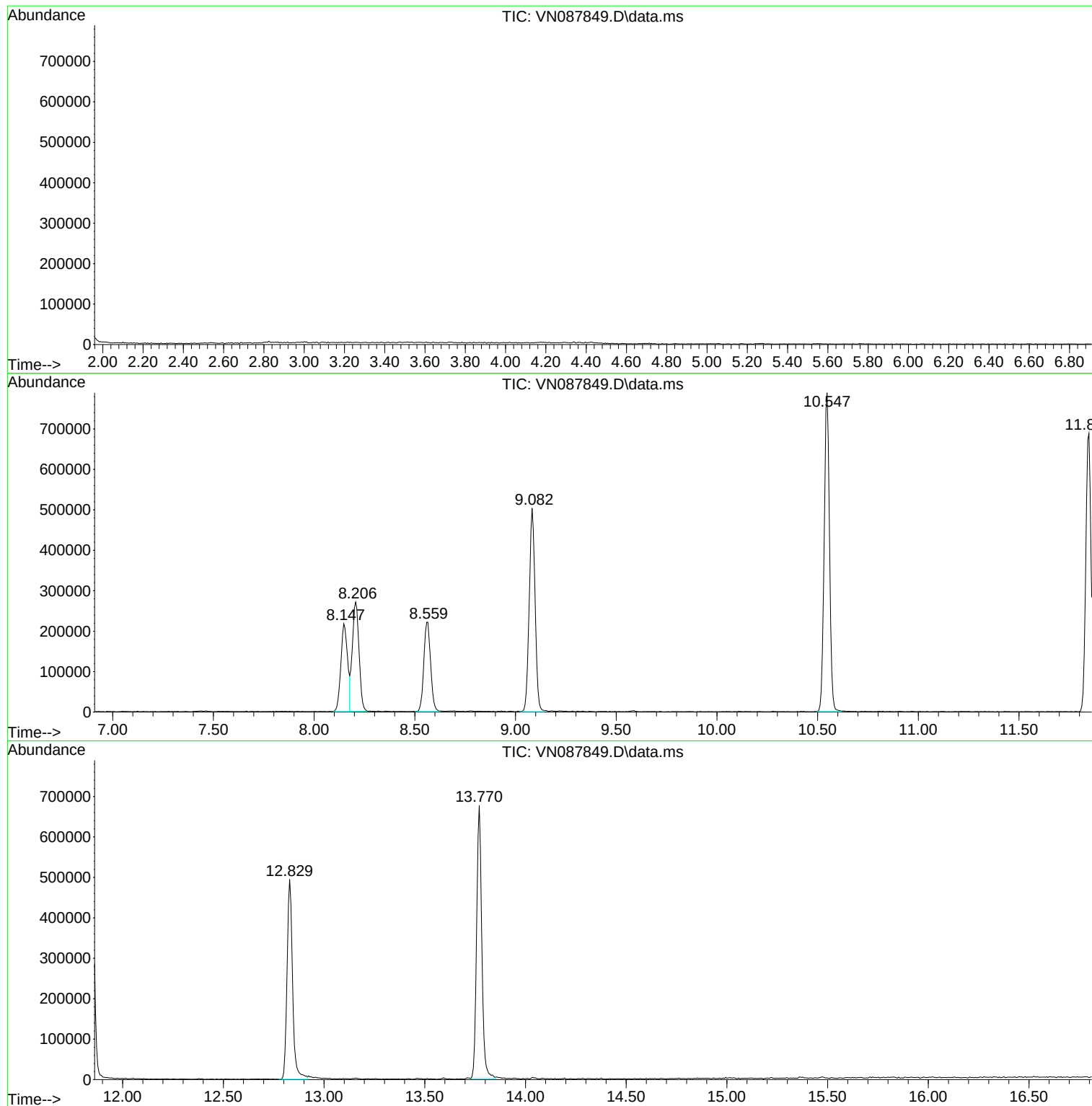
Sum of corrected areas: 7514257

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087849.D
Acq On : 16 Sep 2025 15:04
Operator : JC\MD
Sample : VN0916WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

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\VN091625\
Data File : VN087849.D
Acq On : 16 Sep 2025 15:04
Operator : JC\MD
Sample : VN0916WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

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\VN091625\
Data File : VN087849.D
Acq On : 16 Sep 2025 15:04
Operator : JC\MD
Sample : VN0916WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBL01

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:	Metuchen	Date Received:	
Client Sample ID:	VX0917WBL01	SDG No.:	Q3109
Lab Sample ID:	VX0917WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047603.D	1	09/17/25 09:41	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
67-64-1	Acetone	1.50	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Metuchen		Date Received:	
Client Sample ID:	VX0917WBL01		SDG No.:	Q3109
Lab Sample ID:	VX0917WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047603.D	1	09/17/25 09:41	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	47.4		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	235000	5.538			
540-36-3	1,4-Difluorobenzene	478000	6.745			
3114-55-4	Chlorobenzene-d5	461000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	225000	12.006			

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Metuchen			Date Received:	
Client Sample ID:	VX0917WBL01			SDG No.:	Q3109
Lab Sample ID:	VX0917WBL01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047603.D	1	09/17/25 09:41	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047603.D
 Acq On : 17 Sep 2025 09:41
 Operator : JC/MD
 Sample : VX0917WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0917WBL01

Quant Time: Sep 18 01:59:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	235094	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	478397	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	460978	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	224854	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	187947	50.225	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	100.440%
35) Dibromofluoromethane	5.373	113	150745	46.985	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.960%
50) Toluene-d8	8.635	98	526623	47.436	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.880%
62) 4-Bromofluorobenzene	11.061	95	222687	52.854	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	105.700%

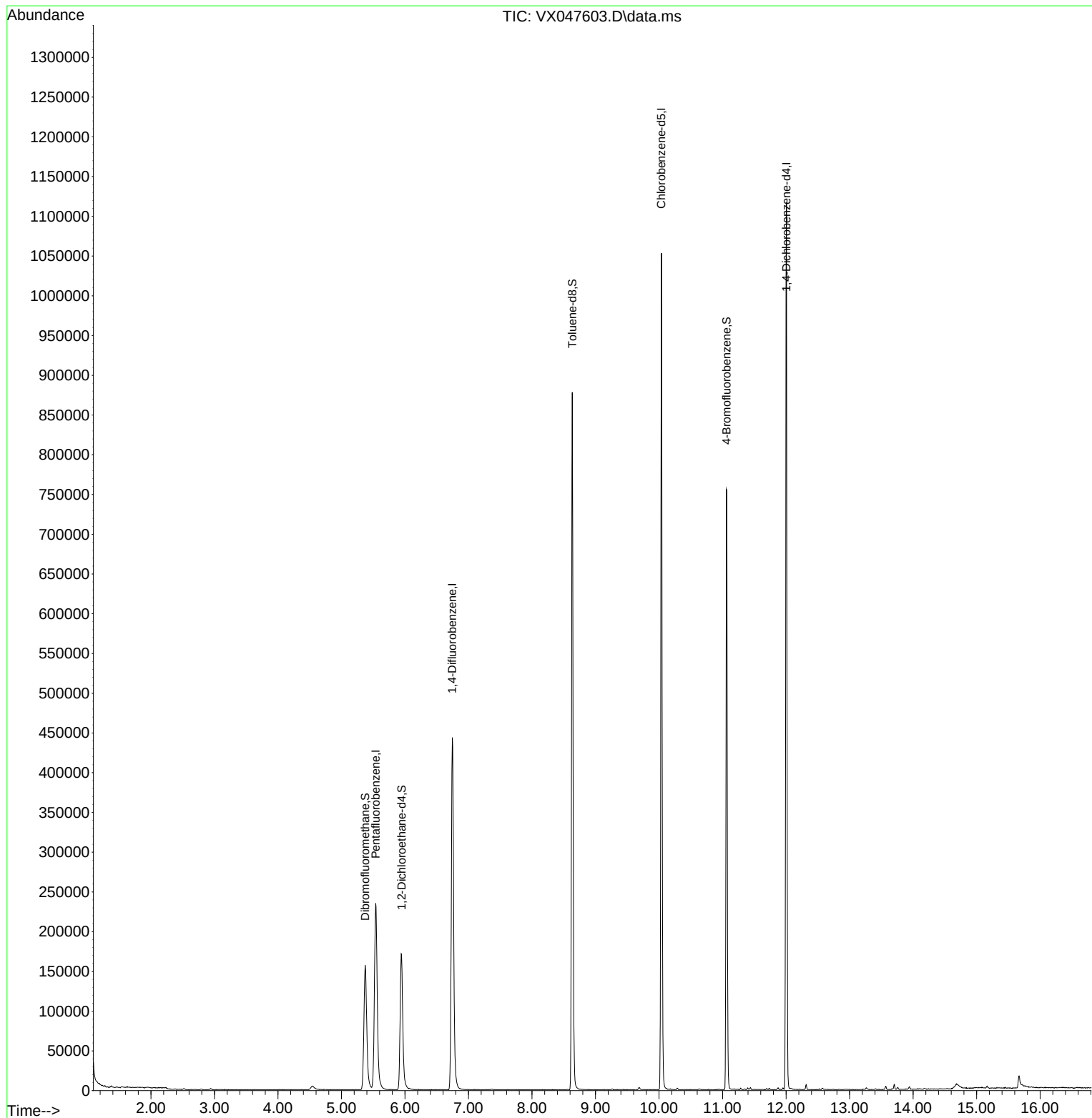
Target Compounds	Qvalue

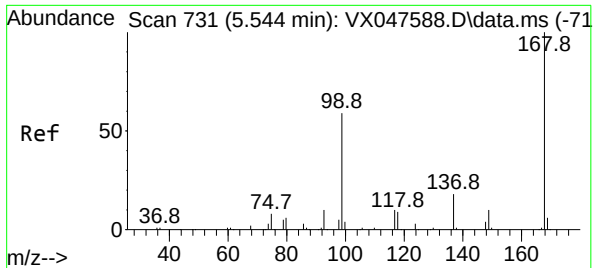
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047603.D
Acq On : 17 Sep 2025 09:41
Operator : JC/MD
Sample : VX0917WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBL01

Quant Time: Sep 18 01:59:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

Instrument :

MSVOA_X

ClientSampleId :

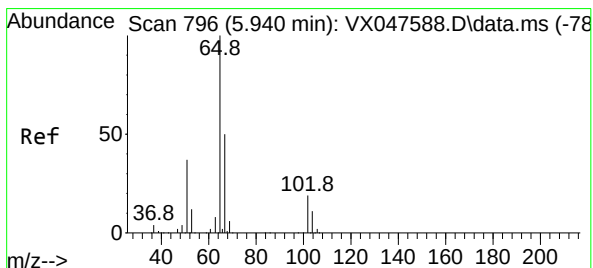
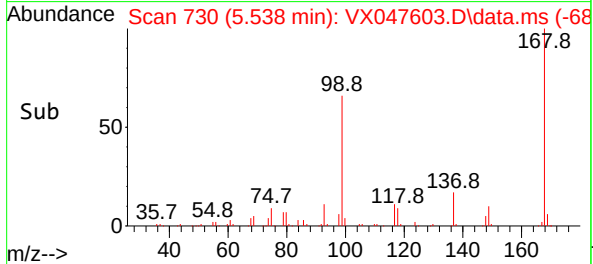
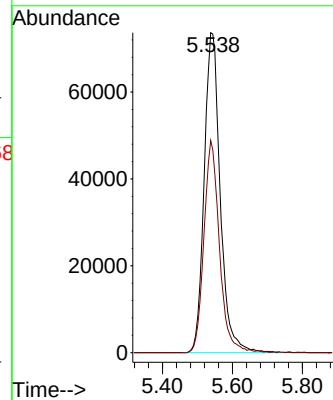
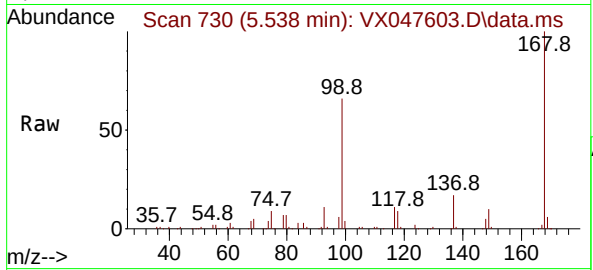
VX0917WBL01

Tgt Ion:168 Resp: 235094

Ion Ratio Lower Upper

168 100

99 66.3 48.8 73.2



#33

1,2-Dichloroethane-d4

Concen: 50.225 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX047603.D

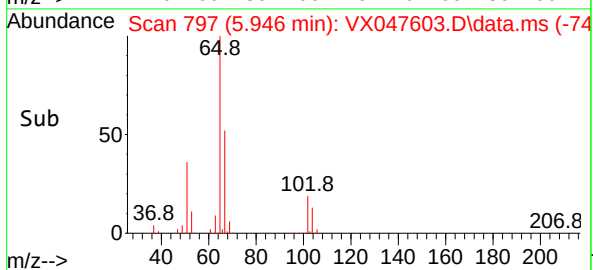
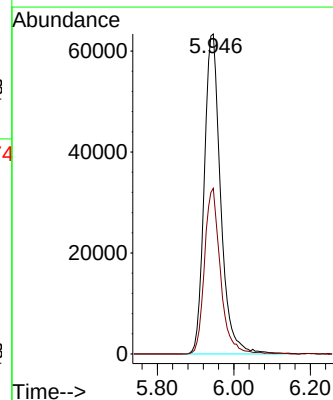
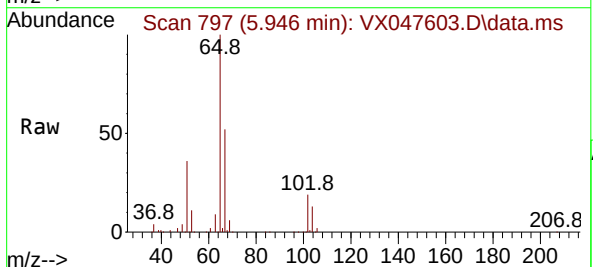
Acq: 17 Sep 2025 09:41

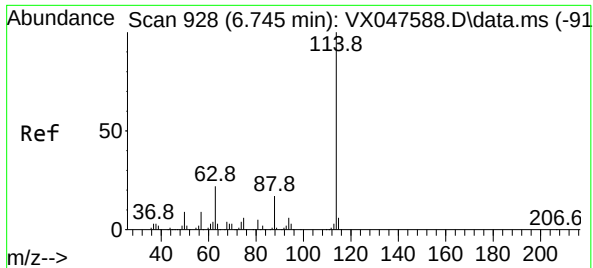
Tgt Ion: 65 Resp: 187947

Ion Ratio Lower Upper

65 100

67 50.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

Instrument :

MSVOA_X

ClientSampleId :

VX0917WBL01

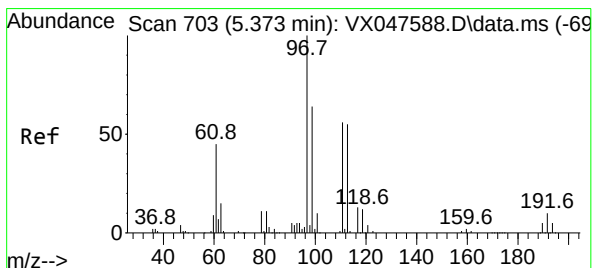
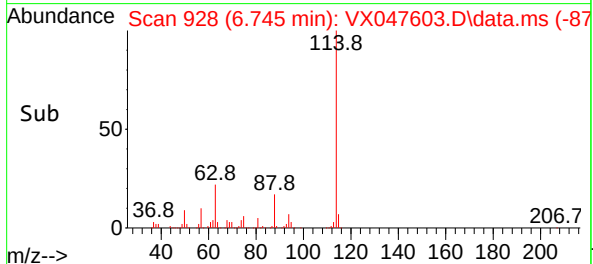
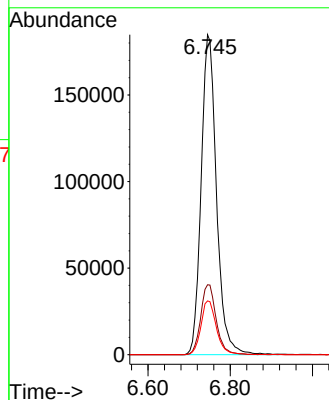
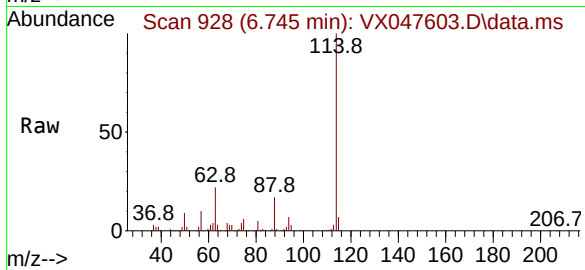
Tgt Ion:114 Resp: 478397

Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.0

88 16.8 0.0 34.2



#35

Dibromofluoromethane

Concen: 46.985 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

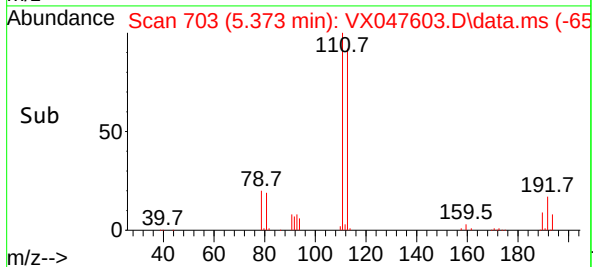
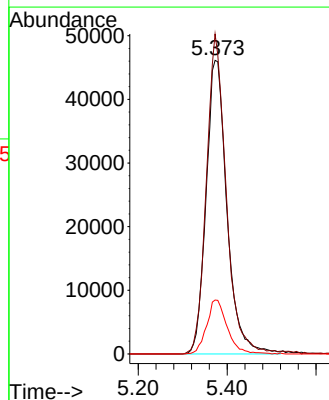
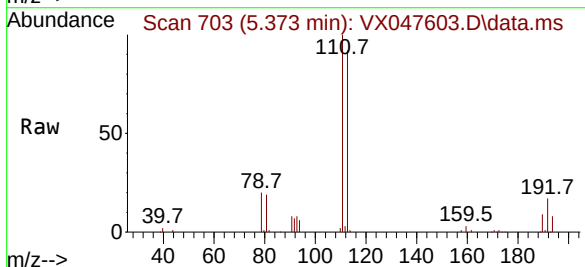
Tgt Ion:113 Resp: 150745

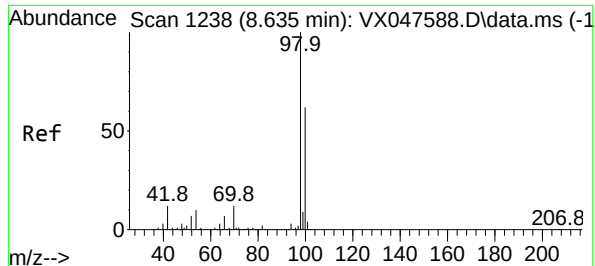
Ion Ratio Lower Upper

113 100

111 103.5 80.9 121.3

192 18.2 14.2 21.4





#50

Toluene-d8

Concen: 47.436 ug/l

RT: 8.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

Instrument :

MSVOA_X

ClientSampleId :

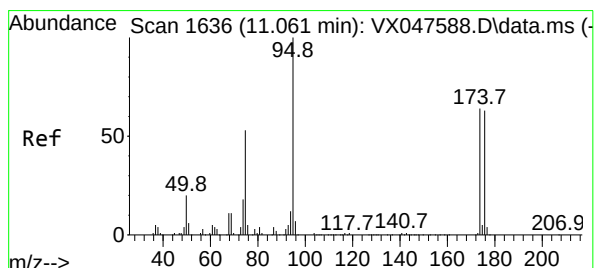
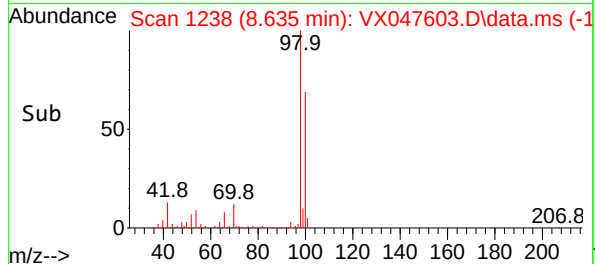
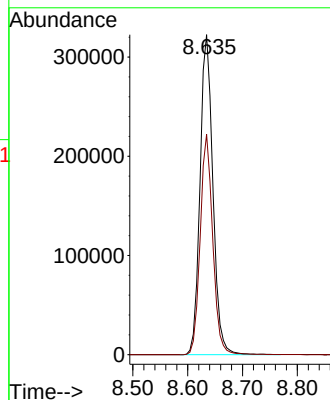
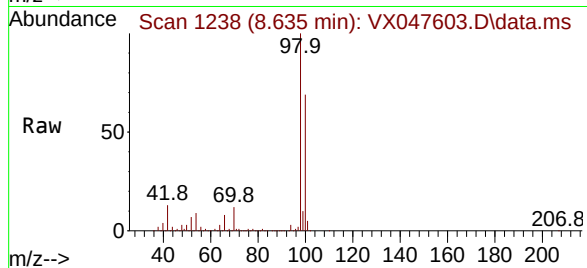
VX0917WBL01

Tgt Ion: 98 Resp: 526623

Ion Ratio Lower Upper

98 100

100 67.1 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 52.854 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

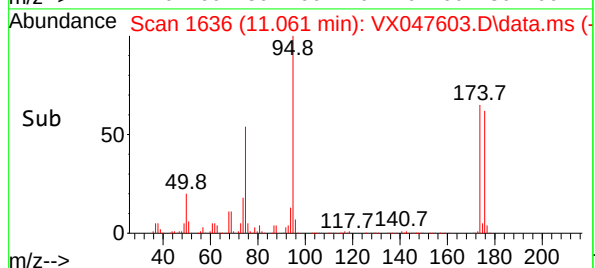
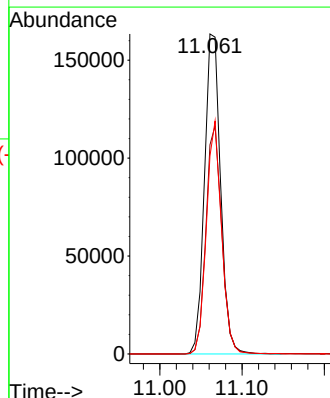
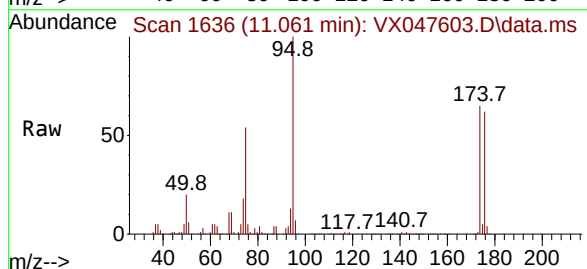
Tgt Ion: 95 Resp: 222687

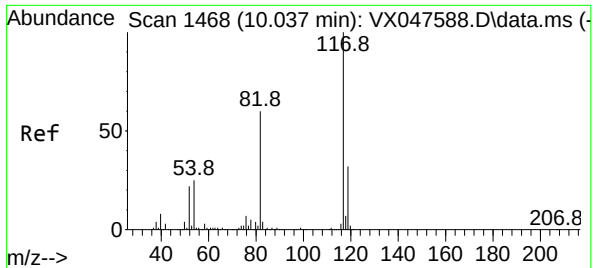
Ion Ratio Lower Upper

95 100

174 69.8 0.0 141.6

176 68.4 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

Instrument :

MSVOA_X

ClientSampleId :

VX0917WBL01

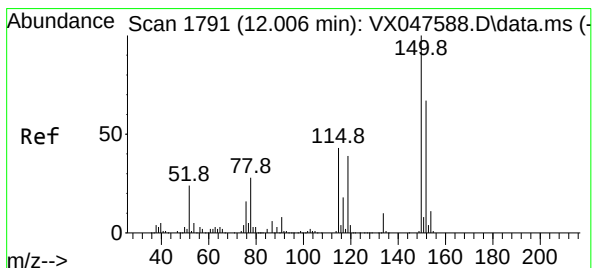
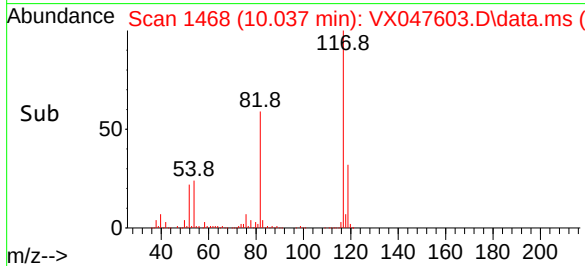
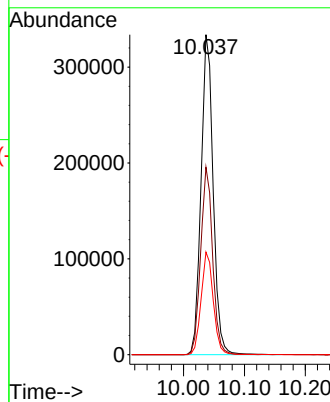
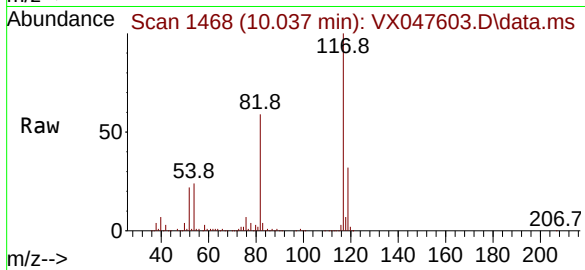
Tgt Ion:117 Resp: 460978

Ion Ratio Lower Upper

117 100

82 58.6 47.8 71.6

119 32.1 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047603.D

Acq: 17 Sep 2025 09:41

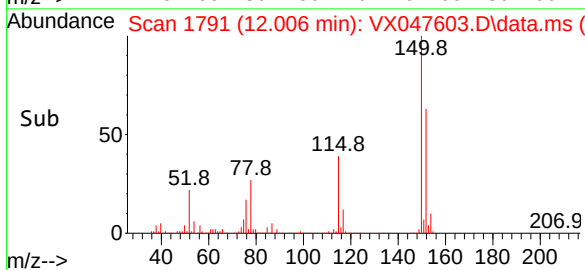
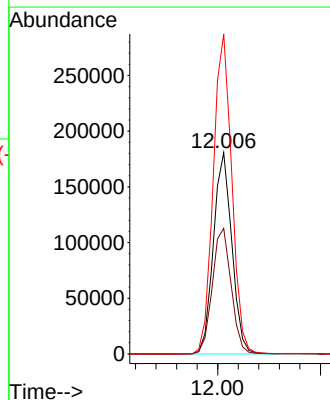
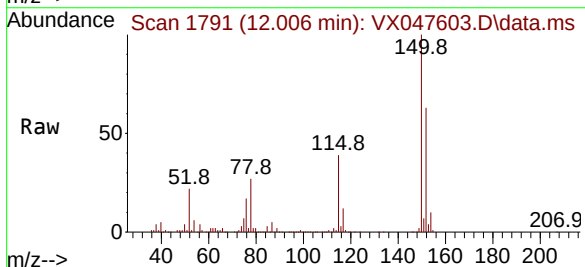
Tgt Ion:152 Resp: 224854

Ion Ratio Lower Upper

152 100

115 63.7 44.9 134.5

150 159.6 0.0 352.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047603.D
Acq On : 17 Sep 2025 09:41
Operator : JC/MD
Sample : VX0917WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBL01

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_X\Method\82X091625W.M

Title : SW846 8260

Signal : TIC: VX047603.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.538	555	566	579	rBV2	4713	18890	1.30%	0.228%
2	5.373	691	703	719	rBV3	156613	495917	34.01%	5.978%
3	5.538	719	730	753	rVB2	233737	727627	49.91%	8.772%
4	5.940	786	796	815	rBV	171154	501344	34.39%	6.044%
5	6.745	918	928	947	rBV	443259	1147311	78.69%	13.831%
6	8.635	1231	1238	1257	rBV	877366	1432625	98.26%	17.271%
7	10.037	1462	1468	1484	rBV	1052317	1457943	100.00%	17.576%
8	11.061	1631	1636	1651	rBV	755275	1039563	71.30%	12.532%
9	12.006	1785	1791	1800	rBV	1115680	1437798	98.62%	17.333%
10	15.670	2386	2392	2400	rBV2	15225	36110	2.48%	0.435%

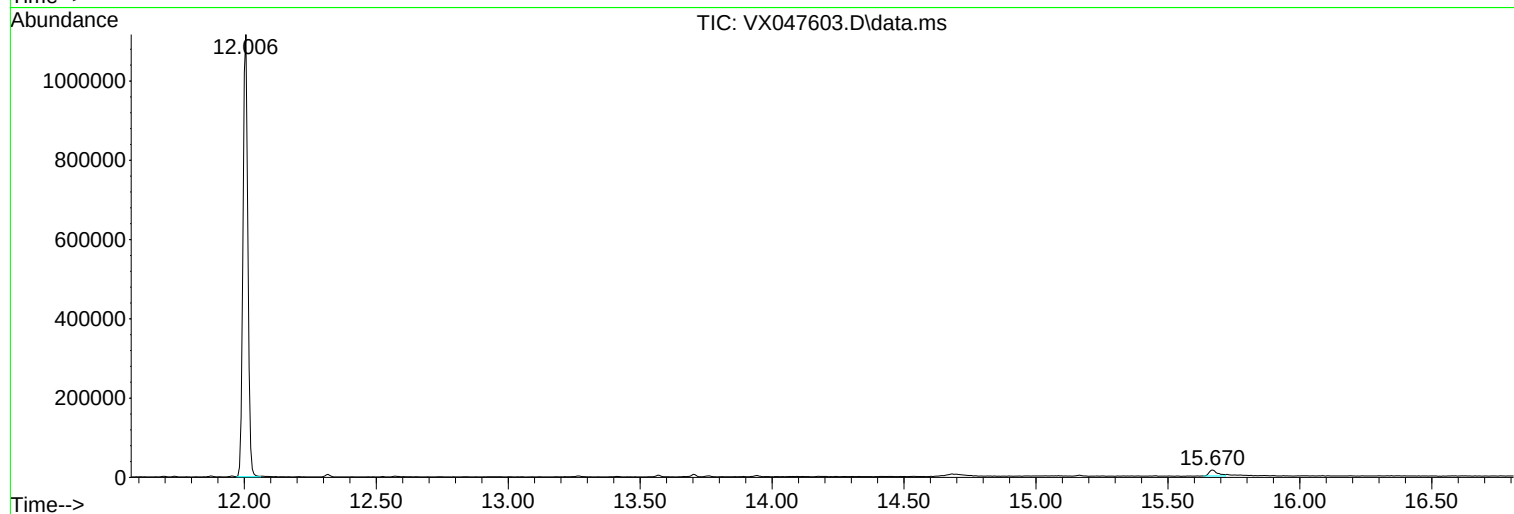
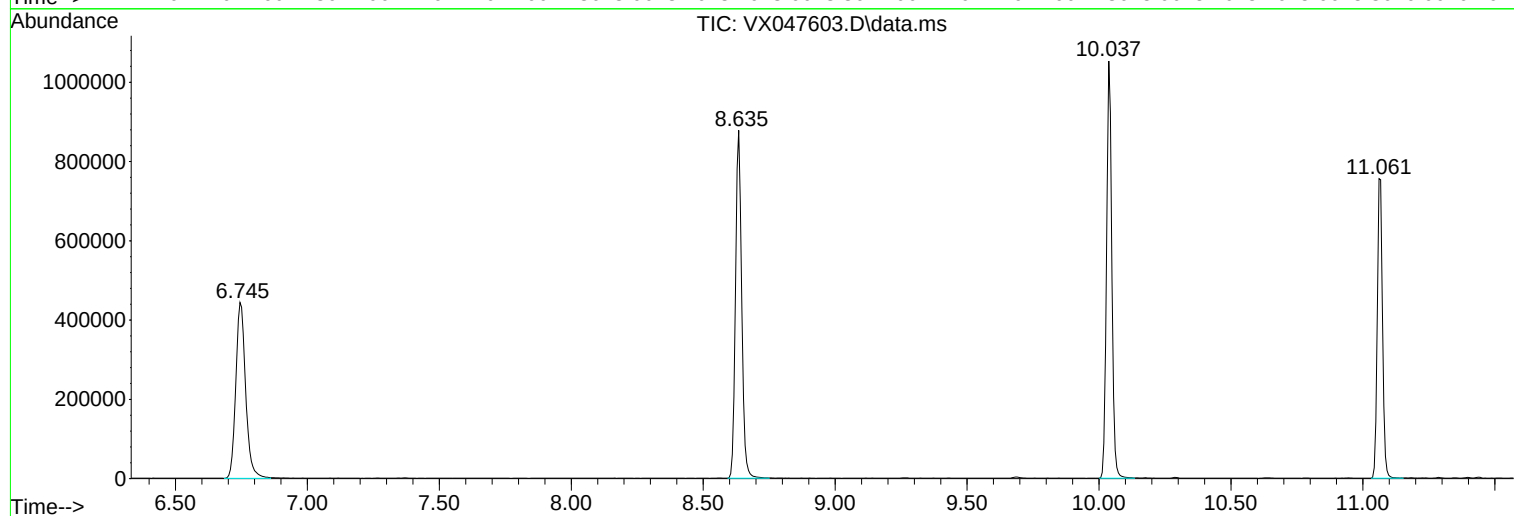
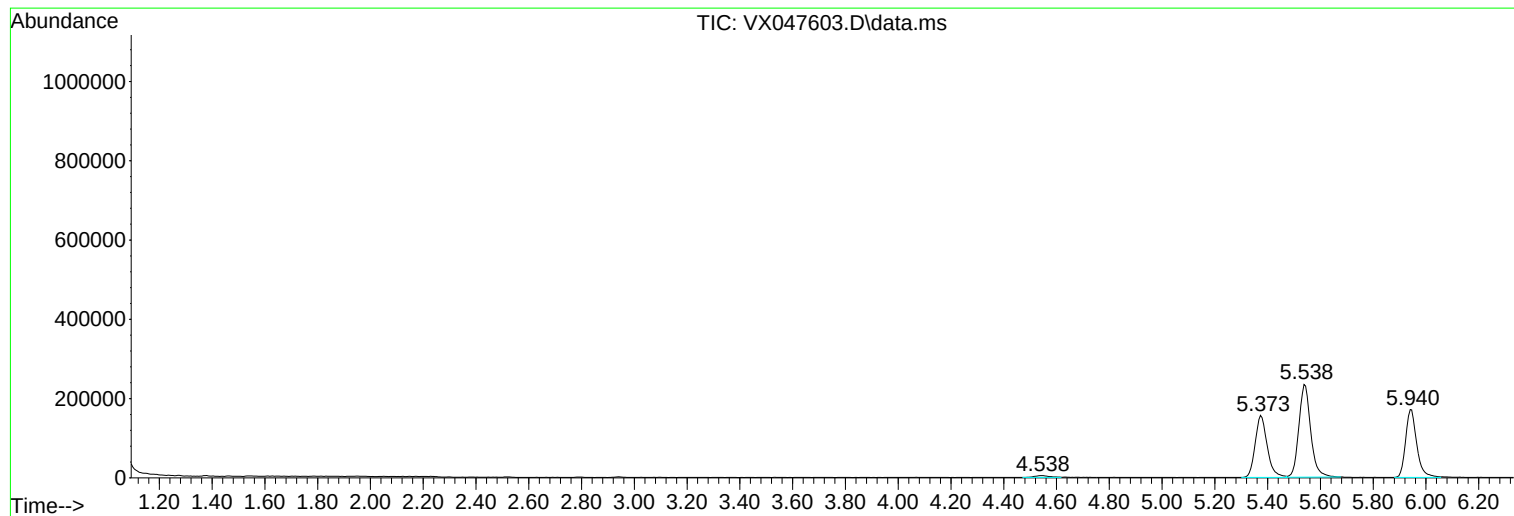
Sum of corrected areas: 8295128

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047603.D
Acq On : 17 Sep 2025 09:41
Operator : JC/MD
Sample : VX0917WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047603.D
Acq On : 17 Sep 2025 09:41
Operator : JC/MD
Sample : VX0917WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047603.D
Acq On : 17 Sep 2025 09:41
Operator : JC/MD
Sample : VX0917WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.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
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Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Metuchen	Date Received:	
Client Sample ID:	VN0916WBS01	SDG No.:	Q3109
Lab Sample ID:	VN0916WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087850.D	1	09/16/25 15:25	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		0.22	1.00	ug/L
74-87-3	Chloromethane	19.0		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	17.9		0.26	1.00	ug/L
74-83-9	Bromomethane	19.8		1.40	5.00	ug/L
75-00-3	Chloroethane	18.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.23	1.00	ug/L
67-64-1	Acetone	75.9		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	19.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.6		0.27	1.00	ug/L
75-09-2	Methylene Chloride	19.2		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.3		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.7		1.50	5.00	ug/L
78-93-3	2-Butanone	87.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.9		0.22	1.00	ug/L
67-66-3	Chloroform	18.9		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.4		0.16	1.00	ug/L
71-43-2	Benzene	19.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.1		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.4		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.8		0.68	5.00	ug/L
108-88-3	Toluene	18.6		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Metuchen	Date Received:	
Client Sample ID:	VN0916WBS01	SDG No.:	Q3109
Lab Sample ID:	VN0916WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087850.D	1	09/16/25 15:25	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.9		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	90.1		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.0		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	37.6		0.24	2.00	ug/L
95-47-6	o-Xylene	18.8		0.12	1.00	ug/L
100-42-5	Styrene	18.8		0.15	1.00	ug/L
75-25-2	Bromoform	21.0		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	16.7		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.5		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.0		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.4		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.0		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.8		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.1		74 - 125	88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	45.0		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	8.206			
540-36-3	1,4-Difluorobenzene	417000	9.082			
3114-55-4	Chlorobenzene-d5	385000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	210000	13.77			

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Metuchen		Date Received:	
Client Sample ID:	VN0916WBS01		SDG No.:	Q3109
Lab Sample ID:	VN0916WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087850.D	1	09/16/25 15:25	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VN091625\
 Data File : VN087850.D
 Acq On : 16 Sep 2025 15:25
 Operator : JC\MD
 Sample : VN0916WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:04 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	212441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	416535	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	384629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	210239	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	191875	44.082	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.160%		
35) Dibromofluoromethane	8.153	113	142797	47.482	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.960%		
50) Toluene-d8	10.547	98	506575	45.005	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.000%		
62) 4-Bromofluorobenzene	12.829	95	187364	46.806	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.620%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	55904	18.528	ug/l	97
3) Chloromethane	2.383	50	59012	19.032	ug/l	97
4) Vinyl Chloride	2.536	62	64459	17.929	ug/l	98
5) Bromomethane	2.977	94	36769	19.821	ug/l	92
6) Chloroethane	3.142	64	45770	18.113	ug/l	94
7) Trichlorofluoromethane	3.506	101	102174	19.398	ug/l	97
8) Diethyl Ether	3.959	74	40276	17.557	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	54564	18.307	ug/l	96
10) Methyl Iodide	4.583	142	30221	18.530	ug/l #	95
11) Tert butyl alcohol	5.530	59	68041	90.044	ug/l	99
12) 1,1-Dichloroethene	4.342	96	55667	18.175	ug/l	85
13) Acrolein	4.183	56	67595	72.764	ug/l	93
14) Allyl chloride	5.012	41	87373	15.742	ug/l	93
15) Acrylonitrile	5.706	53	198074	92.945	ug/l	98
16) Acetone	4.424	43	179741	75.857	ug/l	97
17) Carbon Disulfide	4.706	76	163482	19.388	ug/l	97
18) Methyl Acetate	5.012	43	97217	19.596	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	206909	18.008	ug/l	96
20) Methylene Chloride	5.265	84	68413	19.197	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	60716	18.291	ug/l	93
22) Diisopropyl ether	6.653	45	208232	17.385	ug/l	95
23) Vinyl Acetate	6.594	43	952603	87.417	ug/l	100
24) 1,1-Dichloroethane	6.553	63	118103	17.984	ug/l	95
25) 2-Butanone	7.471	43	271281	87.024	ug/l	98
26) 2,2-Dichloropropane	7.477	77	96026	17.036	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	77168	19.446	ug/l	93
28) Bromochloromethane	7.794	49	56730	17.868	ug/l	93
29) Tetrahydrofuran	7.830	42	177067	88.261	ug/l	98
30) Chloroform	7.947	83	126732	18.906	ug/l	99
31) Cyclohexane	8.235	56	96759	17.673	ug/l	95
32) 1,1,1-Trichloroethane	8.147	97	106285	18.710	ug/l	96
36) 1,1-Dichloropropene	8.353	75	81154	17.590	ug/l	96
37) Ethyl Acetate	7.553	43	109179	17.318	ug/l	99
38) Carbon Tetrachloride	8.347	117	87614	19.234	ug/l	94
39) Methylcyclohexane	9.582	83	88595	17.442	ug/l	94
40) Benzene	8.588	78	269680	19.058	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087850.D
 Acq On : 16 Sep 2025 15:25
 Operator : JC\MD
 Sample : VN0916WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:04 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	7.771	41	54678	16.743	ug/l	92
42) 1,2-Dichloroethane	8.653	62	98286	18.074	ug/l	100
43) Isopropyl Acetate	8.677	43	174715	17.750	ug/l	98
44) Trichloroethene	9.335	130	60956	18.867	ug/l	93
45) 1,2-Dichloropropane	9.606	63	68739	18.429	ug/l	100
46) Dibromomethane	9.688	93	49768	18.750	ug/l	94
47) Bromodichloromethane	9.871	83	103785	19.078	ug/l #	95
48) Methyl methacrylate	9.665	41	78208	16.798	ug/l	97
49) 1,4-Dioxane	9.682	88	22511	373.036	ug/l #	94
51) 4-Methyl-2-Pentanone	10.423	43	551309	92.834	ug/l	100
52) Toluene	10.612	92	163565	18.645	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	100551	17.857	ug/l	96
54) cis-1,3-Dichloropropene	10.294	75	109621	18.749	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	65951	19.433	ug/l	98
56) Ethyl methacrylate	10.853	69	95504	17.609	ug/l	96
57) 1,3-Dichloropropane	11.141	76	114165	19.008	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.141	63	260397	88.706	ug/l	98
59) 2-Hexanone	11.176	43	338058	90.071	ug/l	98
60) Dibromochloromethane	11.335	129	74413	18.924	ug/l	99
61) 1,2-Dibromoethane	11.447	107	67826	18.954	ug/l	97
64) Tetrachloroethene	11.082	164	51220	19.194	ug/l	92
65) Chlorobenzene	11.870	112	183474	19.174	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.941	131	64982	20.455	ug/l	99
67) Ethyl Benzene	11.941	91	301786	18.215	ug/l	99
68) m/p-Xylenes	12.053	106	228624	37.626	ug/l	97
69) o-Xylene	12.376	106	111964	18.803	ug/l	95
70) Styrene	12.388	104	187752	18.820	ug/l	98
71) Bromoform	12.559	173	51182	21.008	ug/l #	95
73) Isopropylbenzene	12.670	105	283155	16.667	ug/l	99
74) N-amyl acetate	12.676	43	116357m	18.073	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	102369	17.502	ug/l	98
76) 1,2,3-Trichloropropane	12.970	75	86649m	17.575	ug/l	
77) Bromobenzene	12.959	156	71443	17.836	ug/l	93
78) n-propylbenzene	13.012	91	357472	17.083	ug/l	99
79) 2-Chlorotoluene	13.100	91	213896	16.985	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	240227	16.669	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.717	75	28031	15.052	ug/l	84
82) 4-Chlorotoluene	13.200	91	219802	16.601	ug/l	94
83) tert-Butylbenzene	13.412	119	204658	17.041	ug/l	96
84) 1,2,4-Trimethylbenzene	13.459	105	249090	17.265	ug/l	99
85) sec-Butylbenzene	13.594	105	306232	17.183	ug/l	99
86) p-Isopropyltoluene	13.706	119	248091	16.858	ug/l	98
87) 1,3-Dichlorobenzene	13.711	146	141726	17.967	ug/l	97
88) 1,4-Dichlorobenzene	13.788	146	149128	18.166	ug/l	99
89) n-Butylbenzene	14.035	91	239567	16.391	ug/l	100
90) Hexachloroethane	14.306	117	50166	17.892	ug/l	92
91) 1,2-Dichlorobenzene	14.082	146	134043	17.912	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	22750	16.373	ug/l	94
93) 1,2,4-Trichlorobenzene	15.370	180	80915	18.006	ug/l	100
94) Hexachlorobutadiene	15.470	225	30415	18.985	ug/l	96
95) Naphthalene	15.611	128	259960	16.332	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	78003	17.755	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087850.D
Acq On : 16 Sep 2025 15:25
Operator : JC\MD
Sample : VN0916WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:04 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

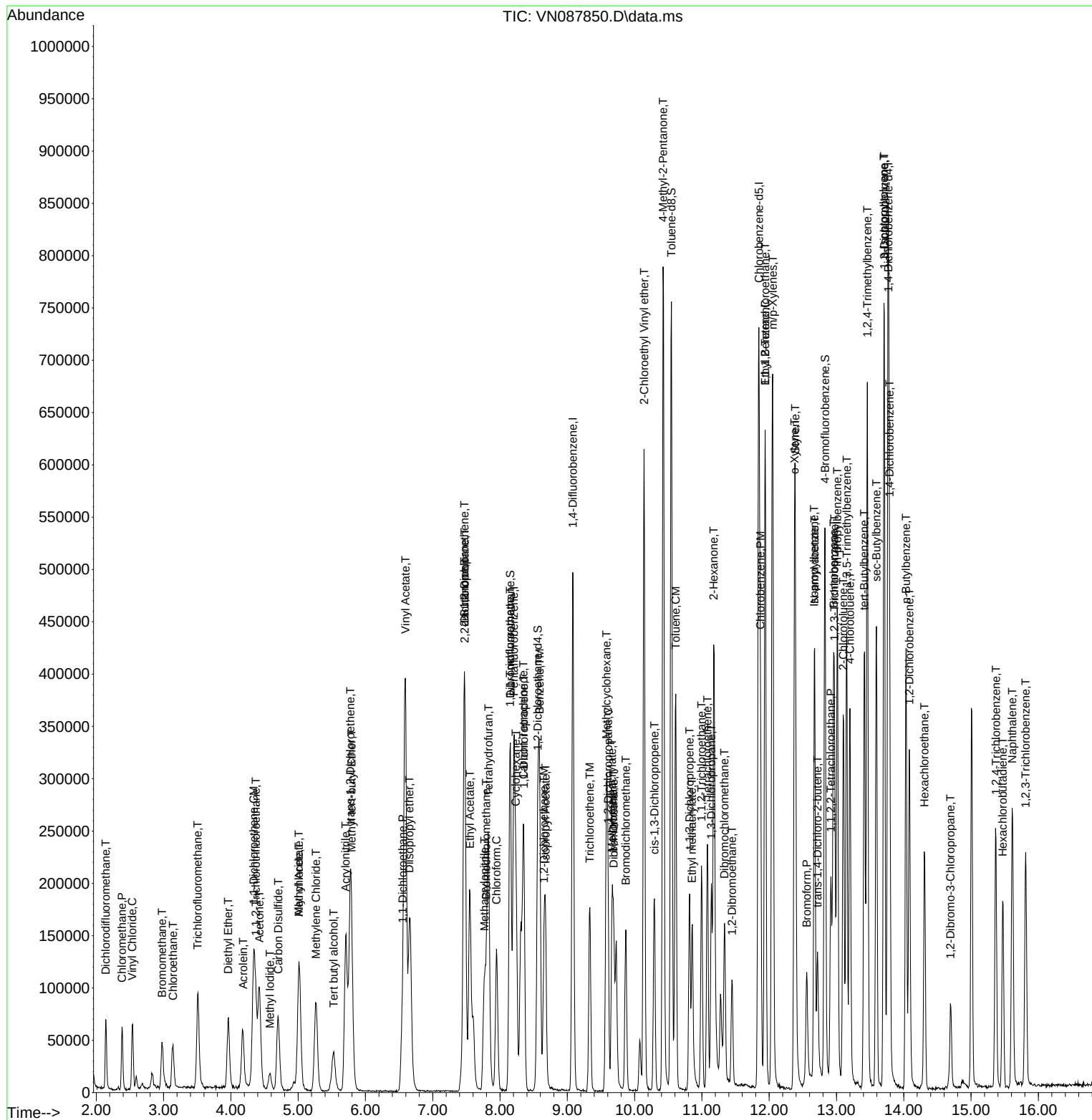
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087850.D
Acq On : 16 Sep 2025 15:25
Operator : JC\MD
Sample : VN0916WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:04 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:	Metuchen	Date Received:	
Client Sample ID:	VX0917WBS01	SDG No.:	Q3109
Lab Sample ID:	VX0917WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047604.D	1	09/17/25 10:09	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	15.9		0.22	1.00	ug/L
74-87-3	Chloromethane	16.0		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	16.9		0.26	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	5.00	ug/L
75-00-3	Chloroethane	17.2		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.1		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.1		0.23	1.00	ug/L
67-64-1	Acetone	73.8		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.0		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.5		0.16	1.00	ug/L
79-20-9	Methyl Acetate	19.2		0.27	1.00	ug/L
75-09-2	Methylene Chloride	16.9		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.0		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.4		1.50	5.00	ug/L
78-93-3	2-Butanone	84.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	21.6		0.22	1.00	ug/L
67-66-3	Chloroform	18.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.9		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.2		0.16	1.00	ug/L
71-43-2	Benzene	17.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.5		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	17.5		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	88.0		0.68	5.00	ug/L
108-88-3	Toluene	17.5		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Metuchen			Date Received:	
Client Sample ID:	VX0917WBS01			SDG No.:	Q3109
Lab Sample ID:	VX0917WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047604.D	1	09/17/25 10:09	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	85.8		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	17.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.7		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	17.1		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	17.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	35.8		0.24	2.00	ug/L
95-47-6	o-Xylene	18.0		0.12	1.00	ug/L
100-42-5	Styrene	17.9		0.15	1.00	ug/L
75-25-2	Bromoform	17.6		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	17.7		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.5		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.7		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.4		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.1		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.4		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.5		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		77 - 121	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	196000	5.538			
540-36-3	1,4-Difluorobenzene	351000	6.739			
3114-55-4	Chlorobenzene-d5	311000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	152000	12.006			

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Metuchen			Date Received:	
Client Sample ID:	VX0917WBS01			SDG No.:	Q3109
Lab Sample ID:	VX0917WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID :	0.18	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047604.D	1	09/17/25 10:09	VX091725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047604.D
 Acq On : 17 Sep 2025 10:09
 Operator : JC/MD
 Sample : VX0917WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0917WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 01:59:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	195658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	351376	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	311445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	151595	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.934	65	157383	50.534	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 101.060%	
35) Dibromofluoromethane	5.367	113	119877	50.870	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.740%	
50) Toluene-d8	8.628	98	419954	51.503	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 103.000%	
62) 4-Bromofluorobenzene	11.061	95	158932	51.358	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.720%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	32239	15.912	ug/l	97
3) Chloromethane	1.301	50	42550	15.979	ug/l	96
4) Vinyl Chloride	1.380	62	44079	16.911	ug/l	98
5) Bromomethane	1.618	94	29960	18.126	ug/l	99
6) Chloroethane	1.697	64	29979	17.208	ug/l	98
7) Trichlorofluoromethane	1.898	101	66259	17.120	ug/l	99
8) Diethyl Ether	2.136	74	27866	17.601	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	39906	17.634	ug/l	98
10) Methyl Iodide	2.453	142	54828	15.534	ug/l	98
11) Tert butyl alcohol	2.934	59	28628	82.535	ug/l	99
12) 1,1-Dichloroethene	2.325	96	39679	17.069	ug/l	94
13) Acrolein	2.233	56	33545	104.947	ug/l	99
14) Allyl chloride	2.666	41	80667	16.816	ug/l	99
15) Acrylonitrile	3.056	53	112971	87.930	ug/l	100
16) Acetone	2.373	43	99959	73.817	ug/l	99
17) Carbon Disulfide	2.514	76	101664	15.975	ug/l	98
18) Methyl Acetate	2.697	43	57770	19.170	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	148899	17.547	ug/l	98
20) Methylene Chloride	2.788	84	48530	16.931	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	42497	16.980	ug/l	98
22) Diisopropyl ether	3.745	45	166210	17.879	ug/l	85
23) Vinyl Acetate	3.709	43	641507	86.219	ug/l	100
24) 1,1-Dichloroethane	3.605	63	87109	17.629	ug/l	98
25) 2-Butanone	4.538	43	141866	83.988	ug/l	99
26) 2,2-Dichloropropane	4.465	77	71454	17.396	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	53833	17.564	ug/l	99
28) Bromochloromethane	4.885	49	46513	21.562	ug/l	100
29) Tetrahydrofuran	4.989	42	86598	85.223	ug/l	99
30) Chloroform	5.080	83	90053	18.035	ug/l	95
31) Cyclohexane	5.458	56	71454	17.363	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	75940	17.930	ug/l	99
36) 1,1-Dichloropropene	5.684	75	57894	16.813	ug/l	97
37) Ethyl Acetate	4.696	43	60533	16.418	ug/l	98
38) Carbon Tetrachloride	5.660	117	63765	17.043	ug/l	98
39) Methylcyclohexane	7.367	83	67230	17.200	ug/l	97
40) Benzene	6.019	78	181057	17.312	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047604.D
 Acq On : 17 Sep 2025 10:09
 Operator : JC/MD
 Sample : VX0917WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0917WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 01:59:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	33000	17.337	ug/l	99
42) 1,2-Dichloroethane	6.068	62	69587	17.487	ug/l	98
43) Isopropyl Acetate	6.318	43	105168	17.392	ug/l	100
44) Trichloroethene	7.110	130	43841	17.339	ug/l	90
45) 1,2-Dichloropropane	7.409	63	46912	17.517	ug/l	99
46) Dibromomethane	7.562	93	34149	17.523	ug/l	99
47) Bromodichloromethane	7.805	83	70468	17.523	ug/l	99
48) Methyl methacrylate	7.677	41	51615	17.137	ug/l	99
49) 1,4-Dioxane	7.647	88	10148	333.385	ug/l #	91
51) 4-Methyl-2-Pentanone	8.555	43	294879	87.955	ug/l	100
52) Toluene	8.702	92	113060	17.546	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	71016	17.313	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	77501	17.677	ug/l	99
55) 1,1,2-Trichloroethane	9.134	97	43269	17.415	ug/l	99
56) Ethyl methacrylate	9.098	69	68509	17.558	ug/l	98
57) 1,3-Dichloropropane	9.293	76	76049	17.818	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	149215	87.394	ug/l	99
59) 2-Hexanone	9.415	43	206700	85.844	ug/l	99
60) Dibromochloromethane	9.506	129	49688	17.356	ug/l	94
61) 1,2-Dibromoethane	9.592	107	44915	17.748	ug/l	98
64) Tetrachloroethene	9.256	164	34798	17.139	ug/l	94
65) Chlorobenzene	10.061	112	124126	17.543	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.147	131	43641	17.874	ug/l	99
67) Ethyl Benzene	10.177	91	215918	17.686	ug/l	99
68) m/p-Xylenes	10.287	106	162720	35.810	ug/l	100
69) o-Xylene	10.622	106	79115	18.001	ug/l	98
70) Styrene	10.640	104	137562	17.863	ug/l	99
71) Bromoform	10.781	173	31997	17.551	ug/l #	99
73) Isopropylbenzene	10.945	105	204217	17.719	ug/l	100
74) N-amyl acetate	10.829	43	90344	17.190	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	60939	17.476	ug/l	100
76) 1,2,3-Trichloropropane	11.219	75	47337m	15.423	ug/l	
77) Bromobenzene	11.183	156	49084	17.292	ug/l	99
78) n-propylbenzene	11.287	91	244439	17.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	147920	17.727	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	166236	17.556	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.000	75	18928	15.726	ug/l	96
82) 4-Chlorotoluene	11.439	91	174598	17.716	ug/l	100
83) tert-Butylbenzene	11.695	119	170426	17.582	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	170162	17.725	ug/l	99
85) sec-Butylbenzene	11.872	105	205317	17.833	ug/l	99
86) p-Isopropyltoluene	11.994	119	173347	17.784	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	93375	17.710	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	94074	17.385	ug/l	99
89) n-Butylbenzene	12.317	91	162215	17.985	ug/l	98
90) Hexachloroethane	12.518	117	29907	17.476	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	89095	17.737	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.926	75	11373	16.110	ug/l	95
93) 1,2,4-Trichlorobenzene	13.567	180	56956	17.447	ug/l	99
94) Hexachlorobutadiene	13.707	225	19147	17.267	ug/l	98
95) Naphthalene	13.756	128	167962	16.896	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	53040	17.466	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047604.D
Acq On : 17 Sep 2025 10:09
Operator : JC/MD
Sample : VX0917WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 01:59:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

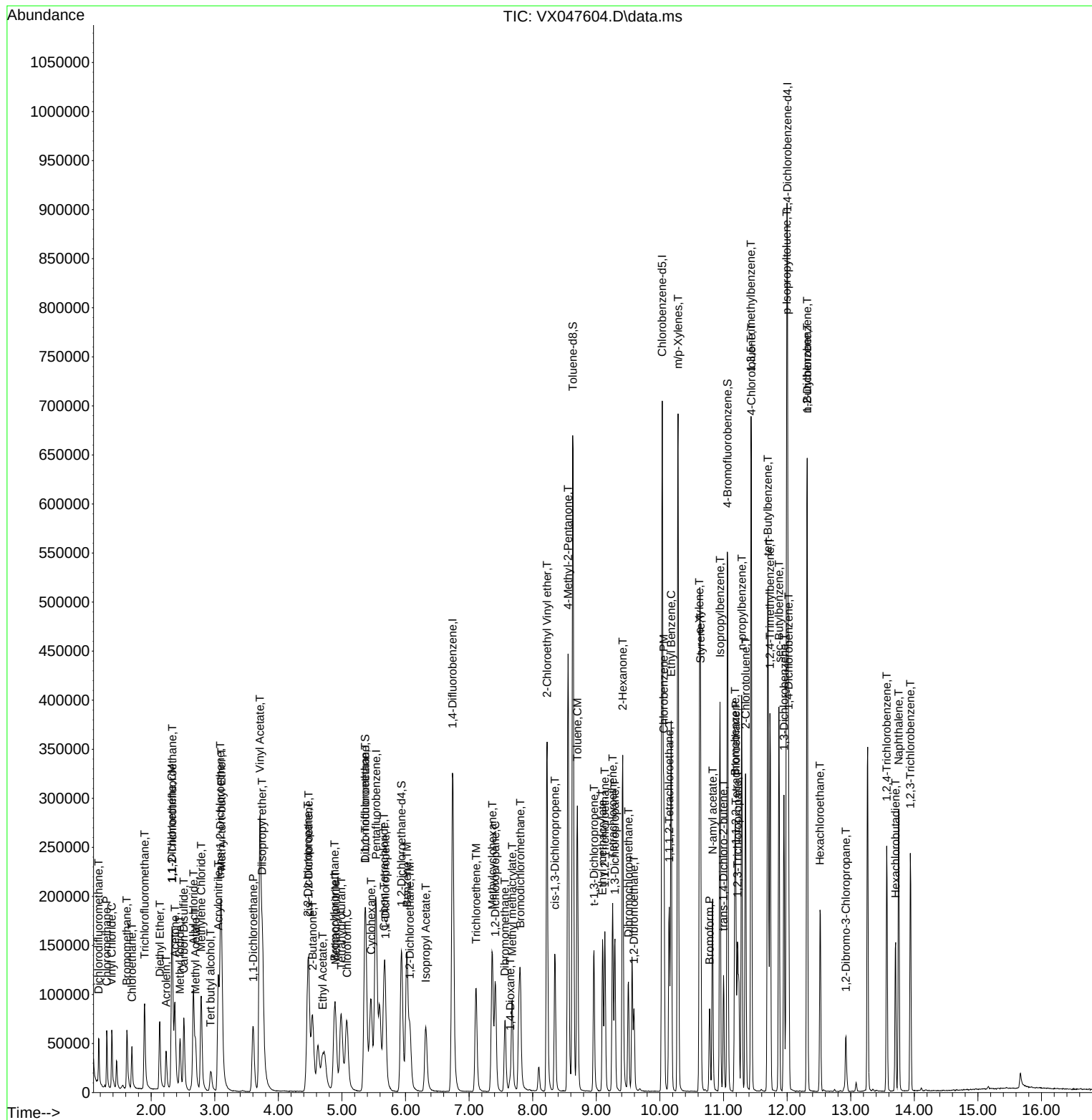
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
Data File : VX047604.D
Acq On : 17 Sep 2025 10:09
Operator : JC/MD
Sample : VX0917WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0917WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/18/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 01:59:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Metuchen			Date Received:	
Client Sample ID:	VN0916WBSD01			SDG No.:	Q3109
Lab Sample ID:	VN0916WBSD01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087851.D	1	09/16/25 15:46	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.22	1.00	ug/L
74-87-3	Chloromethane	18.4		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	18.4		0.26	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	16.9		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.7		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.23	1.00	ug/L
67-64-1	Acetone	71.9		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	18.7		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.6		0.27	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.50	5.00	ug/L
78-93-3	2-Butanone	84.2		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.4		0.22	1.00	ug/L
67-66-3	Chloroform	18.0		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.1		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	18.5		0.16	1.00	ug/L
71-43-2	Benzene	18.9		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.0		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.4		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.1		0.68	5.00	ug/L
108-88-3	Toluene	18.7		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Metuchen	Date Received:	
Client Sample ID:	VN0916WBSD01	SDG No.:	Q3109
Lab Sample ID:	VN0916WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
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
VN087851.D	1	09/16/25 15:46	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.9		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	89.5		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	19.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.0		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.2		0.24	2.00	ug/L
95-47-6	o-Xylene	19.5		0.12	1.00	ug/L
100-42-5	Styrene	19.0		0.15	1.00	ug/L
75-25-2	Bromoform	21.1		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	17.4		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.8		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.9		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.0		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.6		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.5		74 - 125	87%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	45.6		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	229000	8.206			
540-36-3	1,4-Difluorobenzene	434000	9.083			
3114-55-4	Chlorobenzene-d5	393000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	210000	13.771			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Metuchen	Date Received:	
Client Sample ID:	VN0916WBSD01	SDG No.:	Q3109
Lab Sample ID:	VN0916WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087851.D	1	09/16/25 15:46	VN091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\VN091625\
 Data File : VN087851.D
 Acq On : 16 Sep 2025 15:46
 Operator : JC\MD
 Sample : VN0916WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:59 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	229272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	433869	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	392898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	209579	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	204194	43.468	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	86.940%
35) Dibromofluoromethane	8.147	113	152219	48.593	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.180%
50) Toluene-d8	10.547	98	534604	45.597	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.200%
62) 4-Bromofluorobenzene	12.829	95	193287	46.356	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.720%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	61714	18.952	ug/l	99
3) Chloromethane	2.383	50	61485	18.373	ug/l	96
4) Vinyl Chloride	2.536	62	71328	18.383	ug/l	90
5) Bromomethane	2.983	94	39000	19.480	ug/l	87
6) Chloroethane	3.136	64	46084	16.899	ug/l	94
7) Trichlorofluoromethane	3.512	101	111716	19.652	ug/l	96
8) Diethyl Ether	3.959	74	40444	16.336	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	59552	18.514	ug/l	97
10) Methyl Iodide	4.577	142	35235	19.471	ug/l	97
11) Tert butyl alcohol	5.524	59	75759	92.898	ug/l	95
12) 1,1-Dichloroethene	4.330	96	58163	17.596	ug/l	90
13) Acrolein	4.177	56	74339	74.149	ug/l	100
14) Allyl chloride	5.012	41	90094	15.040	ug/l	93
15) Acrylonitrile	5.706	53	204541	88.934	ug/l	97
16) Acetone	4.424	43	183819	71.883	ug/l	96
17) Carbon Disulfide	4.706	76	170001	18.681	ug/l	100
18) Methyl Acetate	5.018	43	99443	18.573	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	210306	16.960	ug/l	98
20) Methylene Chloride	5.265	84	70838	18.366	ug/l	94
21) trans-1,2-Dichloroethene	5.777	96	63180	17.636	ug/l	90
22) Diisopropyl ether	6.659	45	220735	17.076	ug/l	95
23) Vinyl Acetate	6.589	43	882321	75.024	ug/l	99
24) 1,1-Dichloroethane	6.553	63	123788	17.466	ug/l	97
25) 2-Butanone	7.471	43	283126	84.156	ug/l	100
26) 2,2-Dichloropropane	7.471	77	101171	16.632	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	77871	18.182	ug/l	98
28) Bromochloromethane	7.794	49	59450	17.350	ug/l	90
29) Tetrahydrofuran	7.824	42	179559	82.933	ug/l	97
30) Chloroform	7.947	83	129921	17.959	ug/l	98
31) Cyclohexane	8.236	56	107126	18.131	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	110851	18.081	ug/l	98
36) 1,1-Dichloropropene	8.353	75	86206	17.938	ug/l	98
37) Ethyl Acetate	7.542	43	108447	16.514	ug/l #	94
38) Carbon Tetrachloride	8.341	117	93570	19.721	ug/l	91
39) Methylcyclohexane	9.583	83	97980	18.519	ug/l	96
40) Benzene	8.588	78	278225	18.876	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
 Data File : VN087851.D
 Acq On : 16 Sep 2025 15:46
 Operator : JC\MD
 Sample : VN0916WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:59 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	59964	17.628	ug/l	98
42) 1,2-Dichloroethane	8.653	62	101742	17.962	ug/l	99
43) Isopropyl Acetate	8.677	43	179617	17.519	ug/l	97
44) Trichloroethene	9.335	130	66656	19.807	ug/l	97
45) 1,2-Dichloropropane	9.606	63	71366	18.369	ug/l	97
46) Dibromomethane	9.688	93	53658	19.408	ug/l	96
47) Bromodichloromethane	9.871	83	108569	19.160	ug/l #	94
48) Methyl methacrylate	9.665	41	82168	16.943	ug/l	98
49) 1,4-Dioxane	9.677	88	21945	349.128	ug/l #	95
51) 4-Methyl-2-Pentanone	10.424	43	569808	92.115	ug/l	100
52) Toluene	10.612	92	170728	18.684	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	107103	18.261	ug/l	95
54) cis-1,3-Dichloropropene	10.294	75	108830	17.870	ug/l	98
55) 1,1,2-Trichloroethane	11.000	97	71066	20.104	ug/l	92
56) Ethyl methacrylate	10.859	69	100359	17.765	ug/l	98
57) 1,3-Dichloropropane	11.141	76	119059	19.031	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.141	63	263312	86.115	ug/l	96
59) 2-Hexanone	11.177	43	349848	89.488	ug/l	99
60) Dibromochloromethane	11.335	129	78365	19.133	ug/l	100
61) 1,2-Dibromoethane	11.447	107	69424	18.625	ug/l	96
64) Tetrachloroethene	11.082	164	53603	19.664	ug/l	93
65) Chlorobenzene	11.871	112	185603	18.988	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.935	131	65603	20.216	ug/l	99
67) Ethyl Benzene	11.941	91	316873	18.723	ug/l	98
68) m/p-Xylenes	12.047	106	243049	39.158	ug/l	96
69) o-Xylene	12.376	106	118378	19.462	ug/l	96
70) Styrene	12.388	104	193858	19.023	ug/l	97
71) Bromoform	12.553	173	52426	21.065	ug/l #	98
73) Isopropylbenzene	12.671	105	294667	17.400	ug/l	99
74) N-amyl acetate	12.665	43	121778m	18.975	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	107892	18.504	ug/l	97
76) 1,2,3-Trichloropropane	12.971	75	86475m	17.595	ug/l	
77) Bromobenzene	12.959	156	75614	18.936	ug/l	93
78) n-propylbenzene	13.012	91	377345	18.089	ug/l	100
79) 2-Chlorotoluene	13.106	91	218388	17.397	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	255538	17.787	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.718	75	29446	15.861	ug/l	89
82) 4-Chlorotoluene	13.200	91	227013	17.200	ug/l	97
83) tert-Butylbenzene	13.412	119	221104	18.468	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	259126	18.018	ug/l	100
85) sec-Butylbenzene	13.594	105	326968	18.404	ug/l	99
86) p-Isopropyltoluene	13.706	119	276556	18.851	ug/l	100
87) 1,3-Dichlorobenzene	13.712	146	147792	18.795	ug/l	96
88) 1,4-Dichlorobenzene	13.788	146	148845	18.189	ug/l	98
89) n-Butylbenzene	14.035	91	257806	17.694	ug/l	99
90) Hexachloroethane	14.306	117	53872	19.275	ug/l	88
91) 1,2-Dichlorobenzene	14.082	146	143628	19.253	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.694	75	23465	16.941	ug/l	91
93) 1,2,4-Trichlorobenzene	15.365	180	85112	18.999	ug/l	98
94) Hexachlorobutadiene	15.470	225	33396	20.911	ug/l	97
95) Naphthalene	15.617	128	273883	17.261	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	81446	18.597	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087851.D
Acq On : 16 Sep 2025 15:46
Operator : JC\MD
Sample : VN0916WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:59 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

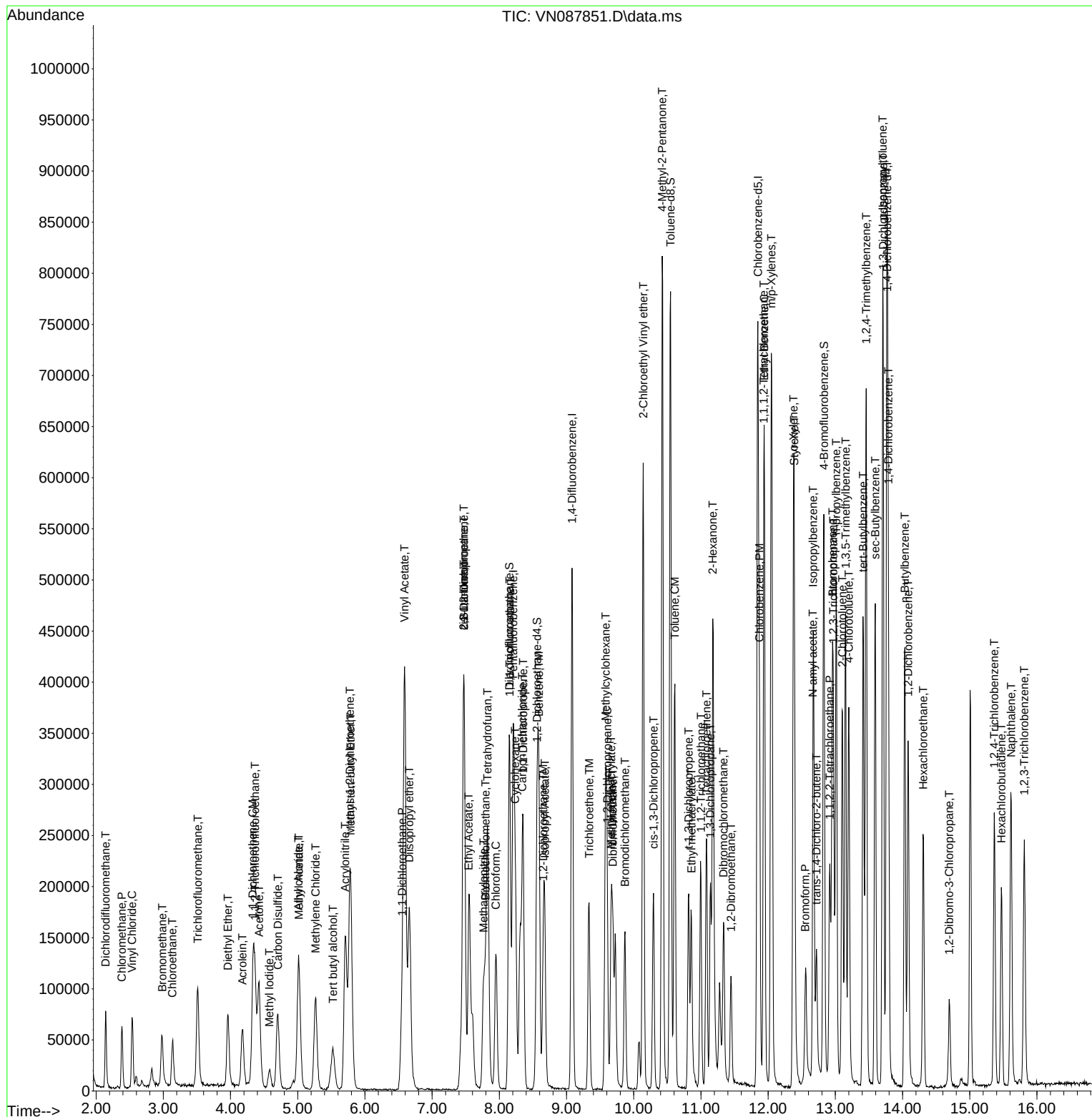
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091625\
Data File : VN087851.D
Acq On : 16 Sep 2025 15:46
Operator : JC\MD
Sample : VN0916WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 01:21:59 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



Manual Integration Report

Sequence:	VN082125	Instrument	MSVOA_n
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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:	VN091625	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087847.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:20:26 AM	MMDadoda	9/18/2025 3:21:22 PM	Peak Integrated by Software
VSTDCCC050	VN087847.D	N-amyl acetate	JOHN	9/17/2025 8:20:26 AM	MMDadoda	9/18/2025 3:21:22 PM	Peak Integrated by Software
VN0916WBS01	VN087850.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:20:32 AM	MMDadoda	9/18/2025 3:21:23 PM	Peak Integrated by Software
VN0916WBS01	VN087850.D	N-amyl acetate	JOHN	9/17/2025 8:20:32 AM	MMDadoda	9/18/2025 3:21:23 PM	Peak Integrated by Software
VN0916WBSD01	VN087851.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:20:36 AM	MMDadoda	9/18/2025 3:21:25 PM	Peak Integrated by Software
VN0916WBSD01	VN087851.D	N-amyl acetate	JOHN	9/17/2025 8:20:36 AM	MMDadoda	9/18/2025 3:21:25 PM	Peak Integrated by Software
Q3109-02	VN087855.D	1,3,5-Trimethylbenzene	SAM	9/19/2025 8:35:35 AM	MMDadoda	9/19/2025 8:36:05 AM	Peak Integrated by Software
Q3109-02	VN087855.D	sec-Butylbenzene	SAM	9/19/2025 8:35:35 AM	MMDadoda	9/19/2025 8:36:05 AM	Peak Integrated by Software
VSTDCCC050	VN087867.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:20:54 AM	MMDadoda	9/18/2025 3:21:30 PM	Peak Integrated by Software
VSTDCCC050	VN087867.D	N-amyl acetate	JOHN	9/17/2025 8:20:54 AM	MMDadoda	9/18/2025 3:21:30 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vx091625

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VX047585.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDIC001	VX047585.D	1,4-Dichlorobenzene	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDIC001	VX047585.D	1,4-Dioxane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDIC005	VX047586.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:50 AM	MMDadoda	9/18/2025 3:22:12 PM	Peak Integrated by Software
VSTDIC020	VX047587.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:57 AM	MMDadoda	9/18/2025 3:22:15 PM	Peak Integrated by Software
VSTDIC050	VX047588.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:01 AM	MMDadoda	9/18/2025 3:22:17 PM	Peak Integrated by Software
VSTDIC100	VX047589.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:06 AM	MMDadoda	9/18/2025 3:22:20 PM	Peak Integrated by Software
VSTDIC150	VX047590.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:11 AM	MMDadoda	9/18/2025 3:22:24 PM	Peak Integrated by Software
VSTDICV050	VX047592.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:15 AM	MMDadoda	9/18/2025 3:22:26 PM	Peak Integrated by Software
VSTDIC050	VX047599.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:34 AM	MMDadoda	9/18/2025 3:22:31 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vx091725

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047601.D	1,2,3-Trichloropropane	JOHN	9/18/2025 8:20:32 AM	MMDadoda	9/18/2025 3:26:11 PM	Peak Integrated by Software
VX0917WBS01	VX047604.D	1,2,3-Trichloropropane	JOHN	9/18/2025 8:20:36 AM	MMDadoda	9/18/2025 3:26:13 PM	Peak Integrated by Software
Q3109-02DL	VX047606.D	1,3,5-Trimethylbenzene	JOHN	9/18/2025 8:20:45 AM	MMDadoda	9/18/2025 3:26:18 PM	Peak Integrated by Software
Q3109-02DL	VX047606.D	sec-Butylbenzene	JOHN	9/18/2025 8:20:45 AM	MMDadoda	9/18/2025 3:26:18 PM	Peak Integrated by Software
VSTDCCC050	VX047629.D	1,2,3-Trichloropropane	JOHN	9/18/2025 8:23:12 AM	MMDadoda	9/18/2025 3:26:25 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 # VN091625

Review By	John Carlone	Review On	9/17/2025 8:23:11 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:21:51 PM
SubDirectory	VN091625	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135496		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135497,VP135498		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087846.D	16 Sep 2025 11:25	JC\MD	Ok
2	VSTDCCC050	VN087847.D	16 Sep 2025 13:55	JC\MD	Ok,M
3	VN0916MBL01	VN087848.D	16 Sep 2025 14:43	JC\MD	Ok
4	VN0916WBL01	VN087849.D	16 Sep 2025 15:04	JC\MD	Ok
5	VN0916WBS01	VN087850.D	16 Sep 2025 15:25	JC\MD	Ok,M
6	VN0916WBSD01	VN087851.D	16 Sep 2025 15:46	JC\MD	Ok,M
7	Q3103-01	VN087852.D	16 Sep 2025 16:08	JC\MD	Ok
8	Q3108-01	VN087853.D	16 Sep 2025 16:29	JC\MD	Ok,M
9	Q3109-01	VN087854.D	16 Sep 2025 16:50	JC\MD	Ok
10	Q3109-02	VN087855.D	16 Sep 2025 17:11	JC\MD	Ok
11	VN0916MBS01	VN087856.D	16 Sep 2025 17:32	JC\MD	Ok,M
12	VN0916MBSD01	VN087857.D	16 Sep 2025 17:54	JC\MD	Ok,M
13	Q3077-01	VN087858.D	16 Sep 2025 18:15	JC\MD	Ok
14	Q3021-01	VN087859.D	16 Sep 2025 18:36	JC\MD	Ok
15	Q3021-03	VN087860.D	16 Sep 2025 18:58	JC\MD	Ok
16	Q3021-05	VN087861.D	16 Sep 2025 19:19	JC\MD	Ok
17	IBLK	VN087862.D	16 Sep 2025 19:40	JC\MD	Ok
18	Q3087-01	VN087863.D	16 Sep 2025 20:01	JC\MD	Ok
19	Q3087-02	VN087864.D	16 Sep 2025 20:22	JC\MD	Ok
20	Q3087-03	VN087865.D	16 Sep 2025 20:43	JC\MD	Ok
21	Q3087-04	VN087866.D	16 Sep 2025 21:05	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091625

Review By	John Carlone	Review On	9/17/2025 8:23:11 AM
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:21:51 PM
SubDirectory	VN091625	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135496		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135497,VP135498		

22	VSTDCCC050	VN087867.D	16 Sep 2025 21:26	JC\MD	Not Ok
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M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM
SubDirectory	VX091625	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135487		
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494		
CCC	VP135488		
Internal Standard/PEM			
ICV/I.BLK	VP135495		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047584.D	16 Sep 2025 08:56	JC/MD	Ok
2	VSTDIC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDIC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDIC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDIC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDIC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDIC150	VX047590.D	16 Sep 2025 12:01	JC/MD	Ok,M
8	IBLK	VX047591.D	16 Sep 2025 12:22	JC/MD	Ok
9	VSTDICV050	VX047592.D	16 Sep 2025 13:35	JC/MD	Ok,M
10	VX0916MBL01	VX047593.D	16 Sep 2025 14:03	JC/MD	Ok
11	VX0916WBL01	VX047594.D	16 Sep 2025 14:53	JC/MD	Ok
12	VX0916WBS01	VX047595.D	16 Sep 2025 15:21	JC/MD	Ok,M
13	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46	JC/MD	Ok,M
14	Q3015-01	VX047597.D	16 Sep 2025 16:07	JC/MD	Ok
15	VIBLK	VX047598.D	16 Sep 2025 16:30	JC/MD	Ok
16	VSTDIC050	VX047599.D	16 Sep 2025 16:51	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX091725

Review By	John Carlone	Review On	9/18/2025 8:34:25 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:26:39 PM
SubDirectory	VX091725	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135511		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135512,VP135513		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047600.D	17 Sep 2025 08:19	JC/MD	Ok
2	VSTDCCC050	VX047601.D	17 Sep 2025 08:51	JC/MD	Ok,M
3	VX0917MBL01	VX047602.D	17 Sep 2025 09:21	JC/MD	Ok
4	VX0917WBL01	VX047603.D	17 Sep 2025 09:41	JC/MD	Ok
5	VX0917WBS01	VX047604.D	17 Sep 2025 10:09	JC/MD	Ok,M
6	VX0917WBSD01	VX047605.D	17 Sep 2025 10:37	JC/MD	Ok,M
7	Q3109-02DL	VX047606.D	17 Sep 2025 10:57	JC/MD	Ok,M
8	Q3095-01	VX047607.D	17 Sep 2025 11:18	JC/MD	Ok
9	Q3095-02	VX047608.D	17 Sep 2025 11:39	JC/MD	Ok
10	Q3095-03	VX047609.D	17 Sep 2025 12:00	JC/MD	Ok
11	Q3095-04	VX047610.D	17 Sep 2025 12:21	JC/MD	Ok
12	Q3095-08	VX047611.D	17 Sep 2025 12:42	JC/MD	Ok
13	Q3095-09	VX047612.D	17 Sep 2025 13:03	JC/MD	Ok
14	Q3095-10	VX047613.D	17 Sep 2025 13:24	JC/MD	Ok
15	Q3095-11	VX047614.D	17 Sep 2025 13:45	JC/MD	Dilution
16	Q3095-12	VX047615.D	17 Sep 2025 14:06	JC/MD	ReRun
17	Q3095-13	VX047616.D	17 Sep 2025 14:27	JC/MD	Dilution
18	Q3095-14	VX047617.D	17 Sep 2025 14:48	JC/MD	ReRun
19	Q3095-15	VX047618.D	17 Sep 2025 15:09	JC/MD	Not Ok
20	Q3095-16	VX047619.D	17 Sep 2025 15:30	JC/MD	Dilution
21	Q3095-17	VX047620.D	17 Sep 2025 15:51	JC/MD	Dilution

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX091725

Review By	John Carlone	Review On	9/18/2025 8:34:25 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:26:39 PM
SubDirectory	VX091725	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135511		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135512,VP135513		

22	Q3095-18	VX047621.D	17 Sep 2025 16:13	JC/MD	Dilution
23	Q3095-19	VX047622.D	17 Sep 2025 16:34	JC/MD	ReRun
24	Q3095-20	VX047623.D	17 Sep 2025 16:55	JC/MD	Not Ok
25	Q3095-21	VX047624.D	17 Sep 2025 17:16	JC/MD	Ok
26	Q3095-22	VX047625.D	17 Sep 2025 17:37	JC/MD	Ok
27	Q3095-05	VX047626.D	17 Sep 2025 17:58	JC/MD	Ok
28	Q3095-06MS	VX047627.D	17 Sep 2025 18:19	JC/MD	Ok,M
29	Q3095-07MSD	VX047628.D	17 Sep 2025 18:40	JC/MD	Ok,M
30	VSTDCCC050	VX047629.D	17 Sep 2025 19:01	JC/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 # VN091625

Review By	John Carlone	Review On	9/17/2025 8:23:11 AM
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:21:51 PM
SubDirectory	VN091625	HP Acquire Method	HP Processing Method 82N082125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135496
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135497,VP135498

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087846.D	16 Sep 2025 11:25		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087847.D	16 Sep 2025 13:55	pH#Lot#V12668	JC\MD	Ok,M
3	VN0916MBL01	VN0916MBL01	VN087848.D	16 Sep 2025 14:43		JC\MD	Ok
4	VN0916WBL01	VN0916WBL01	VN087849.D	16 Sep 2025 15:04		JC\MD	Ok
5	VN0916WBS01	VN0916WBS01	VN087850.D	16 Sep 2025 15:25	BS Failed Low For Com.#80,81	JC\MD	Ok,M
6	VN0916WBSD01	VN0916WBSD01	VN087851.D	16 Sep 2025 15:46	BSD Failed Low For Comp.#23	JC\MD	Ok,M
7	Q3103-01	TW-WTS-14	VN087852.D	16 Sep 2025 16:08	vial A pH<2	JC\MD	Ok
8	Q3108-01	MW2	VN087853.D	16 Sep 2025 16:29	vial A pH<2	JC\MD	Ok,M
9	Q3109-01	MW1D	VN087854.D	16 Sep 2025 16:50	vial A pH<2	JC\MD	Ok
10	Q3109-02	MW1	VN087855.D	16 Sep 2025 17:11		JC\MD	Ok
11	VN0916MBS01	VN0916MBS01	VN087856.D	16 Sep 2025 17:32		JC\MD	Ok,M
12	VN0916MBSD01	VN0916MBSD01	VN087857.D	16 Sep 2025 17:54		JC\MD	Ok,M
13	Q3077-01	LAW-25-0137	VN087858.D	16 Sep 2025 18:15	cloth material	JC\MD	Ok
14	Q3021-01	821-B	VN087859.D	16 Sep 2025 18:36	sample is oil	JC\MD	Ok
15	Q3021-03	821-D	VN087860.D	16 Sep 2025 18:58	sample is oil	JC\MD	Ok
16	Q3021-05	821-I	VN087861.D	16 Sep 2025 19:19	sample is oil	JC\MD	Ok
17	IBLK	IBLK	VN087862.D	16 Sep 2025 19:40		JC\MD	Ok
18	Q3087-01	STORAGE-BLANK-SAM	VN087863.D	16 Sep 2025 20:01	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN091625

Review By	John Carlone	Review On	9/17/2025 8:23:11 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:21:51 PM
SubDirectory	VN091625	HP Acquire Method	HP Processing Method 82N082125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135496		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135497,VP135498		

19	Q3087-02	STORAGE-BLANK-WA	VN087864.D	16 Sep 2025 20:22	vial A pH<2	JC\MD	Ok
20	Q3087-03	STORAGE-BLANK-WA	VN087865.D	16 Sep 2025 20:43	vial A pH<2	JC\MD	Ok
21	Q3087-04	STORAGE-BLANK-SAI	VN087866.D	16 Sep 2025 21:05	vial A pH<2	JC\MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VN087867.D	16 Sep 2025 21:26	Low Spike	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM
SubDirectory	VX091625	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135487		
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494		
CCC	VP135488		
Internal Standard/PEM			
ICV/I.BLK	VP135495		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047584.D	16 Sep 2025 08:56		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX047585.D	16 Sep 2025 09:23		JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX047586.D	16 Sep 2025 10:16	QR-58	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX047587.D	16 Sep 2025 10:37		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX047588.D	16 Sep 2025 10:58		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX047589.D	16 Sep 2025 11:40		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX047590.D	16 Sep 2025 12:01		JC/MD	Ok,M
8	IBLK	IBLK	VX047591.D	16 Sep 2025 12:22		JC/MD	Ok
9	VSTDICV050	ICVVX091625	VX047592.D	16 Sep 2025 13:35		JC/MD	Ok,M
10	VX0916MBL01	VX0916MBL01	VX047593.D	16 Sep 2025 14:03		JC/MD	Ok
11	VX0916WBL01	VX0916WBL01	VX047594.D	16 Sep 2025 14:53		JC/MD	Ok
12	VX0916WBS01	VX0916WBS01	VX047595.D	16 Sep 2025 15:21		JC/MD	Ok,M
13	VX0916WBSD01	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46		JC/MD	Ok,M
14	Q3015-01	WP0925-PT-VOA-WP	VX047597.D	16 Sep 2025 16:07		JC/MD	Ok
15	VIBLK	VIBLK	VX047598.D	16 Sep 2025 16:30		JC/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VX047599.D	16 Sep 2025 16:51		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX091725

Review By	John Carlone	Review On	9/18/2025 8:34:25 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:26:39 PM
SubDirectory	VX091725	HP Acquire Method	HP Processing Method 82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135511
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135512,VP135513

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047600.D	17 Sep 2025 08:19		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047601.D	17 Sep 2025 08:51	pH#Lot#V12668	JC/MD	Ok,M
3	VX0917MBL01	VX0917MBL01	VX047602.D	17 Sep 2025 09:21		JC/MD	Ok
4	VX0917WBL01	VX0917WBL01	VX047603.D	17 Sep 2025 09:41		JC/MD	Ok
5	VX0917WBS01	VX0917WBS01	VX047604.D	17 Sep 2025 10:09		JC/MD	Ok,M
6	VX0917WBSD01	VX0917WBSD01	VX047605.D	17 Sep 2025 10:37		JC/MD	Ok,M
7	Q3109-02DL	MW1DL	VX047606.D	17 Sep 2025 10:57	vial B pH<2	JC/MD	Ok,M
8	Q3095-01	MW305I-20250908	VX047607.D	17 Sep 2025 11:18	vial A pH<2	JC/MD	Ok
9	Q3095-02	MW179D-20250908	VX047608.D	17 Sep 2025 11:39	vial A pH<2	JC/MD	Ok
10	Q3095-03	MW201D-20250908	VX047609.D	17 Sep 2025 12:00	vial A pH<2	JC/MD	Ok
11	Q3095-04	MW179D1-20250908	VX047610.D	17 Sep 2025 12:21	vial A pH<2	JC/MD	Ok
12	Q3095-08	MW203D1-20250909	VX047611.D	17 Sep 2025 12:42	vial A pH<2	JC/MD	Ok
13	Q3095-09	MW179D2-20250909	VX047612.D	17 Sep 2025 13:03	vial A pH<2	JC/MD	Ok
14	Q3095-10	MW201D1-20250909	VX047613.D	17 Sep 2025 13:24	vial A pH<2	JC/MD	Ok
15	Q3095-11	RE122D1-20250909	VX047614.D	17 Sep 2025 13:45	vial A pH<2 Need 5X	JC/MD	Dilution
16	Q3095-12	MW202D-20250909	VX047615.D	17 Sep 2025 14:06	vial A pH<2 E flag of previous sample	JC/MD	ReRun
17	Q3095-13	MW178I1-20250909	VX047616.D	17 Sep 2025 14:27	vial A pH<2 Need 10X	JC/MD	Dilution

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX091725

Review By	John Carlone	Review On	9/18/2025 8:34:25 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:26:39 PM
SubDirectory	VX091725	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135511		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135512,VP135513		

18	Q3095-14	RE123D1-20250909	VX047617.D	17 Sep 2025 14:48	vial A pH<2 E flag of previous sample	JC/MD	ReRun
19	Q3095-15	RE123D3-20250909	VX047618.D	17 Sep 2025 15:09	vial A pH<2 Confirm concentration	JC/MD	Not Ok
20	Q3095-16	MW305D-20250909	VX047619.D	17 Sep 2025 15:30	vial A pH<2 Need 20X	JC/MD	Dilution
21	Q3095-17	DUP01-20250909	VX047620.D	17 Sep 2025 15:51	vial A pH<2 Need 20X	JC/MD	Dilution
22	Q3095-18	RE126D2-20250909	VX047621.D	17 Sep 2025 16:13	vial A pH<2 Need 5X	JC/MD	Dilution
23	Q3095-19	RE126D3-20250909	VX047622.D	17 Sep 2025 16:34	vial A pH<2 E flag of previous sample	JC/MD	ReRun
24	Q3095-20	MW178S-20250910	VX047623.D	17 Sep 2025 16:55	vial A pH<2 Confirm concentration	JC/MD	Not Ok
25	Q3095-21	RE126D1-20250910	VX047624.D	17 Sep 2025 17:16	vial A pH<2	JC/MD	Ok
26	Q3095-22	MW202D1-20250910	VX047625.D	17 Sep 2025 17:37	vial A pH<2	JC/MD	Ok
27	Q3095-05	MW203D2-20250909	VX047626.D	17 Sep 2025 17:58	vial A pH<2	JC/MD	Ok
28	Q3095-06MS	MW203D2-20250909M	VX047627.D	17 Sep 2025 18:19	vial A pH<2	JC/MD	Ok,M
29	Q3095-07MSD	MW203D2-20250909M	VX047628.D	17 Sep 2025 18:40	vial A pH<2	JC/MD	Ok,M
30	VSTDCCC050	VSTDCCC050EC	VX047629.D	17 Sep 2025 19:01		JC/MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION

COMPANY: Environmental
ADDRESS: 8 Carriaco
CITY: Shecasum STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

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

CLIENT BILLING INFORMATION

BILL TO: Environmental PO#:
ADDRESS: 8 Carriaco
CITY: Shecasum STATE: NJ ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Strong DAYS*
HARDCOPY (DATA PACKAGE) Strong DAYS*
EDD: Strong 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 Exel
☒ EDD FORMAT hazte, edd, jk

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.	MW1D	GW	X		9/16/25	0942	2	X									
2.	MW1	GW	X		9/16/25		2	X									
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1055</u>	RECEIVED BY: <u>1055</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>5.3</u> °C
1. <u>APR</u>	<u>9-16-25</u>	<u>1</u>	Comments: <u></u>
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.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3109 GENV01

Order Date : 9/16/2025 11:02:00 AM

Project Mgr :

Client Name : G Environmental

Project Name : Metuchen

Report Type : NJ Reduced

Client Contact : Gary Landis

Receive DateTime : 9/16/2025 10:55:00 AM

EDD Type : HAZ/EXCEL

Invoice Name : G Environmental

Purchase Order :

Hard Copy Date :

Invoice Contact : Gary Landis

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3109-01	MW1D	Water	09/16/2025	09:42					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q3109-02	MW1	Water	09/16/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

[Signature]
9/16/25 12:15

Received By :

Date / Time :

[Signature]
09/16/25 12:15 Ref # 4

Storage Area : VOA Refridgerator Room