

Cover Page

Order ID : Q2268

Project ID : Con Ed Non MGP – Atlantic Ave 453957.600024.05

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number

Q2268-01
Q2268-02
Q2268-03
Q2268-04
Q2268-05
Q2268-06
Q2268-07
Q2268-08
Q2268-09
Q2268-10

Client Sample Number

MW-4-20250605
MW-5-20250605
MW-2-20250605
Q2268-03MS
Q2268-03MSD
MW-2-20250605-A
MW-6-20250605
MW-3-20250605
TB-20250605
FB-20250605

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: 6/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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 #: Q2268

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 06/18/2025

LAB CHRONICLE

OrderID:	Q2268	OrderDate:	6/6/2025 2:21:00 PM
Client:	PARSONS Engineering of New York, Inc.	Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05
Contact:	Stephen Liberatore	Location:	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2268-01	MW-4-20250605	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-02	MW-5-20250605	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-03	MW-2-20250605	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-03DL	MW-2-20250605DL	Water	VOCMS Group1	8260-Low	06/05/25		06/13/25	06/06/25
Q2268-06	MW-2-20250605-A	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-06DL	MW-2-20250605-ADL	Water	VOCMS Group1	8260-Low	06/05/25		06/13/25	06/06/25
Q2268-07	MW-6-20250605	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-07DL	MW-6-20250605DL	Water	VOCMS Group1	8260-Low	06/05/25		06/16/25	06/06/25
Q2268-08	MW-3-20250605	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-08DL	MW-3-20250605DL	Water	VOCMS Group1	8260-Low	06/05/25		06/16/25	06/06/25
Q2268-09	TB-20250605	Water	VOCMS Group1	8260-Low	06/05/25		06/12/25	06/06/25
Q2268-10	FB-20250605	Water			06/05/25			06/06/25

LAB CHRONICLE

VOCMS Group1

8260-Low

06/12/25

Hit Summary Sheet SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-4-20250605							
Q2268-01	MW-4-20250605	Water	Chloroform	1.10		0.25	1.00	ug/L
			Total Voc :	1.10				
			Total Concentration:	1.10				
Client ID:	MW-5-20250605							
Q2268-02	MW-5-20250605	Water	Acetone	4.40	J	1.50	5.00	ug/L
Q2268-02	MW-5-20250605	Water	Methyl tert-butyl Ether	5.30		0.16	1.00	ug/L
Q2268-02	MW-5-20250605	Water	2-Butanone	1.80	J	0.98	5.00	ug/L
Q2268-02	MW-5-20250605	Water	Benzene	0.92	J	0.15	1.00	ug/L
			Total Voc :	12.4				
Q2268-02	MW-5-20250605	Water	Benzene, 1,2-diethyl-	* 6.10	J	0	0	ug/L
Q2268-02	MW-5-20250605	Water	1-Phenyl-1-butene	* 5.40	J	0	0	ug/L
Q2268-02	MW-5-20250605	Water	sec-Butylbenzene	* 0.25	J	0.13	1.00	ug/L
			Total Tics :	11.8				
			Total Concentration:	24.2				
Client ID:	MW-2-20250605							
Q2268-03	MW-2-20250605	Water	Cyclohexane	38.5		1.50	5.00	ug/L
Q2268-03	MW-2-20250605	Water	2-Butanone	12.1		0.98	5.00	ug/L
Q2268-03	MW-2-20250605	Water	Methylcyclohexane	41.1		0.16	1.00	ug/L
Q2268-03	MW-2-20250605	Water	Benzene	99.8		0.15	1.00	ug/L
Q2268-03	MW-2-20250605	Water	Toluene	9.20		0.14	1.00	ug/L
Q2268-03	MW-2-20250605	Water	Ethyl Benzene	370	E	0.13	1.00	ug/L
Q2268-03	MW-2-20250605	Water	m/p-Xylenes	480	E	0.24	2.00	ug/L
Q2268-03	MW-2-20250605	Water	o-Xylene	9.00		0.12	1.00	ug/L
Q2268-03	MW-2-20250605	Water	Isopropylbenzene	41.8		0.12	1.00	ug/L
			Total Voc :	1100				
Q2268-03	MW-2-20250605	Water	Butane, 2-methyl-	* 60.8	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Butane, 2,3-dimethyl-	* 30.5	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Pentane, 3-methyl-	* 110	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Cyclopentane, methyl-	* 150	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Pentane, 2-methyl-	* 110	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Azulene	* 69.5	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Indane	* 92.5	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Pentane, 2,3-dimethyl-	* 39.3	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	Benzene, 1-ethyl-2-methyl-	* 30.1	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	1H-Indene, 2,3-dihydro-4-meth	* 35.9	J	0	0	ug/L
Q2268-03	MW-2-20250605	Water	n-propylbenzene	* 81.3	J	0.13	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2268-03	MW-2-20250605	Water	1,3,5-Trimethylbenzene	* 75.6	J	0.15	1.00	ug/L
Q2268-03	MW-2-20250605	Water	1,2,4-Trimethylbenzene	* 270	J	0.14	1.00	ug/L
Q2268-03	MW-2-20250605	Water	sec-Butylbenzene	* 4.50	J	0.13	1.00	ug/L
Q2268-03	MW-2-20250605	Water	p-Isopropyltoluene	* 1.40	J	0.13	1.00	ug/L
Q2268-03	MW-2-20250605	Water	n-Butylbenzene	* 6.70	J	0.15	1.00	ug/L
Total Tics :				1170				
Total Concentration:				2270				
Client ID:	MW-2-20250605DL							
Q2268-03DL	MW-2-20250605DI	Water	Cyclohexane	42.2	JD	14.5	50.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	2-Butanone	12.4	JD	9.80	50.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	Methylcyclohexane	32.1	D	1.60	10.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	Benzene	80.7	D	1.50	10.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	Toluene	6.70	JD	1.40	10.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	Ethyl Benzene	290	D	1.30	10.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	m/p-Xylenes	360	D	2.40	20.0	ug/L
Q2268-03DL	MW-2-20250605DI	Water	Isopropylbenzene	29.2	D	1.20	10.0	ug/L
Total Voc :				853				
Total Concentration:				853				
Client ID:	MW-2-20250605-A							
Q2268-06	MW-2-20250605-A	Water	Cyclohexane	31.8		1.50	5.00	ug/L
Q2268-06	MW-2-20250605-A	Water	2-Butanone	12.3		0.98	5.00	ug/L
Q2268-06	MW-2-20250605-A	Water	Methylcyclohexane	30.9		0.16	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	Benzene	76.6		0.15	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	Toluene	6.10		0.14	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	Ethyl Benzene	280	E	0.13	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	m/p-Xylenes	350	E	0.24	2.00	ug/L
Q2268-06	MW-2-20250605-A	Water	o-Xylene	2.50		0.12	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	Isopropylbenzene	30.1		0.12	1.00	ug/L
Total Voc :				820				
Q2268-06	MW-2-20250605-A	Water	Butane, 2-methyl-	* 24.6	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Pentane, 3-methyl-	* 43.9	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Cyclopentane, methyl-	* 55.7	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Pentane, 2-methyl-	* 32.0	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Azulene	* 65.8	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Indane	* 85.7	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Benzene, 1-ethyl-2-methyl-	* 27.5	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	Indan, 1-methyl-	* 21.8	J	0	0	ug/L

Hit Summary Sheet
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SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2268-06	MW-2-20250605-A	Water	1H-Indene, 2,3-dihydro-4-meth	* 33.8	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	unknown8.788	* 24.7	J	0	0	ug/L
Q2268-06	MW-2-20250605-A	Water	n-propylbenzene	* 60.6	J	0.13	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	1,3,5-Trimethylbenzene	* 54.6	J	0.15	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	1,2,4-Trimethylbenzene	* 200	J	0.14	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	sec-Butylbenzene	* 3.40	J	0.13	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	p-Isopropyltoluene	* 0.98	J	0.13	1.00	ug/L
Q2268-06	MW-2-20250605-A	Water	n-Butylbenzene	* 5.20	J	0.15	1.00	ug/L
Total Tics :				740				
Total Concentration:				1560				
Client ID:	MW-2-20250605-ADL							
Q2268-06DL	MW-2-20250605-A	Water	Cyclohexane	39.7	JD	14.5	50.0	ug/L
Q2268-06DL	MW-2-20250605-A	Water	Methylcyclohexane	31.7	D	1.60	10.0	ug/L
Q2268-06DL	MW-2-20250605-A	Water	Benzene	77.5	D	1.50	10.0	ug/L
Q2268-06DL	MW-2-20250605-A	Water	Toluene	6.50	JD	1.40	10.0	ug/L
Q2268-06DL	MW-2-20250605-A	Water	Ethyl Benzene	280	D	1.30	10.0	ug/L
Q2268-06DL	MW-2-20250605-A	Water	m/p-Xylenes	350	D	2.40	20.0	ug/L
Q2268-06DL	MW-2-20250605-A	Water	Isopropylbenzene	28.6	D	1.20	10.0	ug/L
Total Voc :				814				
Total Concentration:				814				
Client ID:	MW-6-20250605							
Q2268-07	MW-6-20250605	Water	Cyclohexane	23.7		1.50	5.00	ug/L
Q2268-07	MW-6-20250605	Water	2-Butanone	6.80		0.98	5.00	ug/L
Q2268-07	MW-6-20250605	Water	Methylcyclohexane	30.4		0.16	1.00	ug/L
Q2268-07	MW-6-20250605	Water	Benzene	530	E	0.15	1.00	ug/L
Q2268-07	MW-6-20250605	Water	Toluene	260	E	0.14	1.00	ug/L
Q2268-07	MW-6-20250605	Water	Ethyl Benzene	530	E	0.13	1.00	ug/L
Q2268-07	MW-6-20250605	Water	m/p-Xylenes	2100	E	0.24	2.00	ug/L
Q2268-07	MW-6-20250605	Water	o-Xylene	850	E	0.12	1.00	ug/L
Q2268-07	MW-6-20250605	Water	Isopropylbenzene	25.8		0.12	1.00	ug/L
Total Voc :				4360				
Q2268-07	MW-6-20250605	Water	Butane, 2-methyl-	* 59.1	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Pentane, 3-methyl-	* 47.0	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Cyclopentane, methyl-	* 36.3	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Cyclopentane	* 55.5	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Indane	* 56.4	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Benzene, 1-ethyl-2-methyl-	* 64.5	J	0	0	ug/L

Hit Summary Sheet
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SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2268-07	MW-6-20250605	Water	Benzene, 1-ethyl-4-methyl-	* 41.7	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Butane, 2-methoxy-2-methyl-	* 130	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Benzene, 2-ethenyl-1,4-dimethy	* 13.9	J	0	0	ug/L
Q2268-07	MW-6-20250605	Water	Tert butyl alcohol	* 9.80	J	5.50	25.0	ug/L
Q2268-07	MW-6-20250605	Water	n-propylbenzene	* 30.0	J	0.13	1.00	ug/L
Q2268-07	MW-6-20250605	Water	1,3,5-Trimethylbenzene	* 100	J	0.15	1.00	ug/L
Q2268-07	MW-6-20250605	Water	1,2,4-Trimethylbenzene	* 510	J	0.14	1.00	ug/L
Q2268-07	MW-6-20250605	Water	sec-Butylbenzene	* 1.70	J	0.13	1.00	ug/L
Q2268-07	MW-6-20250605	Water	p-Isopropyltoluene	* 2.00	J	0.13	1.00	ug/L
Total Tics :				1160				
Total Concentration:				5510				
Client ID:	MW-6-20250605DL							
Q2268-07DL	MW-6-20250605DI	Water	Methylcyclohexane	15.8	JD	3.20	20.0	ug/L
Q2268-07DL	MW-6-20250605DI	Water	Benzene	320	D	3.00	20.0	ug/L
Q2268-07DL	MW-6-20250605DI	Water	Toluene	170	D	2.80	20.0	ug/L
Q2268-07DL	MW-6-20250605DI	Water	Ethyl Benzene	350	D	2.60	20.0	ug/L
Q2268-07DL	MW-6-20250605DI	Water	m/p-Xylenes	1500	D	4.80	40.0	ug/L
Q2268-07DL	MW-6-20250605DI	Water	o-Xylene	550	D	2.40	20.0	ug/L
Q2268-07DL	MW-6-20250605DI	Water	Isopropylbenzene	15.7	JD	2.40	20.0	ug/L
Total Voc :				2920				
Total Concentration:				2920				
Client ID:	MW-3-20250605							
Q2268-08	MW-3-20250605	Water	Acetone	5.60		1.50	5.00	ug/L
Q2268-08	MW-3-20250605	Water	Cyclohexane	15.9		1.50	5.00	ug/L
Q2268-08	MW-3-20250605	Water	2-Butanone	1.50	J	0.98	5.00	ug/L
Q2268-08	MW-3-20250605	Water	Chloroform	4.70		0.25	1.00	ug/L
Q2268-08	MW-3-20250605	Water	Methylcyclohexane	15.9		0.16	1.00	ug/L
Q2268-08	MW-3-20250605	Water	Benzene	1.80		0.15	1.00	ug/L
Q2268-08	MW-3-20250605	Water	Toluene	330	E	0.14	1.00	ug/L
Q2268-08	MW-3-20250605	Water	Tetrachloroethene	0.49	J	0.23	1.00	ug/L
Q2268-08	MW-3-20250605	Water	Ethyl Benzene	1000	E	0.13	1.00	ug/L
Q2268-08	MW-3-20250605	Water	m/p-Xylenes	2700	E	0.24	2.00	ug/L
Q2268-08	MW-3-20250605	Water	o-Xylene	940	E	0.12	1.00	ug/L
Q2268-08	MW-3-20250605	Water	Isopropylbenzene	66.3		0.12	1.00	ug/L
Total Voc :				5080				
Q2268-08	MW-3-20250605	Water	Indene	* 8.20	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	Azulene	* 46.5	J	0	0	ug/L

Hit Summary Sheet SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2268-08	MW-3-20250605	Water	Benzene, 1,2,3,4-tetramethyl-	* 8.00	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	Indane	* 56.7	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	Benzene, 1-ethyl-2-methyl-	* 34.4	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	Benzene, 1-ethyl-3-methyl-	* 60.3	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	Indan, 1-methyl-	* 9.80	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	1H-Indene, 2,3-dihydro-4-meth	* 18.1	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	1H-Indene, 2,3-dihydro-5-meth	* 8.70	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	Benzene, 1-ethyl-2,4-dimethyl-	* 9.50	J	0	0	ug/L
Q2268-08	MW-3-20250605	Water	n-propylbenzene	* 140	J	0.13	1.00	ug/L
Q2268-08	MW-3-20250605	Water	1,3,5-Trimethylbenzene	* 310	J	0.15	1.00	ug/L
Q2268-08	MW-3-20250605	Water	1,2,4-Trimethylbenzene	* 1500	J	0.14	1.00	ug/L
Q2268-08	MW-3-20250605	Water	sec-Butylbenzene	* 4.90	J	0.13	1.00	ug/L
Q2268-08	MW-3-20250605	Water	p-Isopropyltoluene	* 4.00	J	0.13	1.00	ug/L
Q2268-08	MW-3-20250605	Water	n-Butylbenzene	* 7.00	J	0.15	1.00	ug/L
Total Tics :				2230				
Total Concentration:				7310				
Client ID:	MW-3-20250605DL							
Q2268-08DL	MW-3-20250605DI	Water	Methylcyclohexane	8.60	JD	3.20	20.0	ug/L
Q2268-08DL	MW-3-20250605DI	Water	Toluene	230	D	2.80	20.0	ug/L
Q2268-08DL	MW-3-20250605DI	Water	Ethyl Benzene	800	D	2.60	20.0	ug/L
Q2268-08DL	MW-3-20250605DI	Water	m/p-Xylenes	2400	D	4.80	40.0	ug/L
Q2268-08DL	MW-3-20250605DI	Water	o-Xylene	730	D	2.40	20.0	ug/L
Q2268-08DL	MW-3-20250605DI	Water	Isopropylbenzene	41.0	D	2.40	20.0	ug/L
Total Voc :				4210				
Total Concentration:				4210				



QC SUMMARY

Surrogate Summary

SDG No.: **Q2268**

Client: **PARSONS Engineering of New York, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2268-01	MW-4-20250605	1,2-Dichloroethane-d4	50	52.8	106	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	52.1	104	86	113
		4-Bromofluorobenzene	50	50.3	101	77	121
Q2268-02	MW-5-20250605	1,2-Dichloroethane-d4	50	54.4	109	74	125
		Dibromofluoromethane	50	52.0	104	75	124
		Toluene-d8	50	52.4	105	86	113
		4-Bromofluorobenzene	50	50.0	100	77	121
Q2268-03	MW-2-20250605	1,2-Dichloroethane-d4	50	47.3	95	74	125
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	51.2	102	86	113
		4-Bromofluorobenzene	50	48.2	96	77	121
Q2268-03DL	MW-2-20250605DL	1,2-Dichloroethane-d4	50	51.7	103	74	125
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	52.5	105	86	113
		4-Bromofluorobenzene	50	50.9	102	77	121
Q2268-04MS	MW-2-20250605MS	1,2-Dichloroethane-d4	50	45.3	91	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	47.5	95	86	113
		4-Bromofluorobenzene	50	48.1	96	77	121
Q2268-05MSD	MW-2-20250605MSD	1,2-Dichloroethane-d4	50	49.1	98	74	125
		Dibromofluoromethane	50	57.1	114	75	124
		Toluene-d8	50	54.4	109	86	113
		4-Bromofluorobenzene	50	53.4	107	77	121
Q2268-06	MW-2-20250605-A	1,2-Dichloroethane-d4	50	51.7	103	74	125
		Dibromofluoromethane	50	51.0	102	75	124
		Toluene-d8	50	52.0	104	86	113
		4-Bromofluorobenzene	50	49.6	99	77	121
Q2268-06DL	MW-2-20250605-ADL	1,2-Dichloroethane-d4	50	51.6	103	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	52.2	104	86	113
		4-Bromofluorobenzene	50	50.3	101	77	121
Q2268-07	MW-6-20250605	1,2-Dichloroethane-d4	50	50.8	102	74	125
		Dibromofluoromethane	50	51.1	102	75	124
		Toluene-d8	50	52.0	104	86	113
		4-Bromofluorobenzene	50	47.1	94	77	121
Q2268-07DL	MW-6-20250605DL	1,2-Dichloroethane-d4	50	53.0	106	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	52.6	105	86	113
		4-Bromofluorobenzene	50	50.6	101	77	121
Q2268-08	MW-3-20250605	1,2-Dichloroethane-d4	50	50.7	101	74	125
		Dibromofluoromethane	50	50.2	100	75	124
		Toluene-d8	50	52.0	104	86	113
		4-Bromofluorobenzene	50	44.5	89	77	121
Q2268-08DL	MW-3-20250605DL	1,2-Dichloroethane-d4	50	52.1	104	74	125
		Dibromofluoromethane	50	51.2	102	75	124
		Toluene-d8	50	52.4	105	86	113
		4-Bromofluorobenzene	50	50.4	101	77	121
Q2268-09	TB-20250605	1,2-Dichloroethane-d4	50	52.5	105	74	125
		Dibromofluoromethane	50	51.0	102	75	124

Surrogate Summary

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2268-09	TB-20250605	Toluene-d8	50	52.3	105	86	113
		4-Bromofluorobenzene	50	50.7	101	77	121
Q2268-10	FB-20250605	1,2-Dichloroethane-d4	50	52.9	106	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	51.9	104	86	113
		4-Bromofluorobenzene	50	49.3	99	77	121
VN0612WBL01	VN0612WBL01	1,2-Dichloroethane-d4	50	50.8	102	74	125
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	52.4	105	86	113
		4-Bromofluorobenzene	50	50.3	101	77	121
VN0612WBS01	VN0612WBS01	1,2-Dichloroethane-d4	50	54.0	108	74	125
		Dibromofluoromethane	50	55.8	112	75	124
		Toluene-d8	50	53.3	107	86	113
		4-Bromofluorobenzene	50	54.4	109	77	121
VN0613WBL01	VN0613WBL01	1,2-Dichloroethane-d4	50	48.0	96	74	125
		Dibromofluoromethane	50	49.3	99	75	124
		Toluene-d8	50	51.8	104	86	113
		4-Bromofluorobenzene	50	49.5	99	77	121
VN0613WBS01	VN0613WBS01	1,2-Dichloroethane-d4	50	46.5	93	74	125
		Dibromofluoromethane	50	51.3	103	75	124
		Toluene-d8	50	48.5	97	86	113
		4-Bromofluorobenzene	50	49.5	99	77	121
VN0616WBL01	VN0616WBL01	1,2-Dichloroethane-d4	50	50.4	101	74	125
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	52.1	104	86	113
		4-Bromofluorobenzene	50	49.2	98	77	121
VN0616WBS01	VN0616WBS01	1,2-Dichloroethane-d4	50	43.0	86	74	125
		Dibromofluoromethane	50	47.6	95	75	124
		Toluene-d8	50	45.4	91	86	113
		4-Bromofluorobenzene	50	46.1	92	77	121

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec			RPD		Limits		RPD
		Result			Qual	RPD	Qual	Low	High			
Lab Sample ID :	Q2268-04MS	Client Sample ID :	MW-2-20250605MS					Datafile :	VN086992.D			
Dichlorodifluoromethane	50	0	41.0	ug/L	82				73	120		
Chloromethane	50	0	35.7	ug/L	71				58	133		
Vinyl chloride	50	0	45.6	ug/L	91				69	125		
Bromomethane	50	0	18.3	ug/L	37				28	165		
Chloroethane	50	0	48.1	ug/L	96				70	141		
Trichlorofluoromethane	50	0	49.0	ug/L	98				72	124		
1,1,2-Trichlorotrifluoroethane	50	0	44.8	ug/L	90				75	117		
1,1-Dichloroethene	50	0	50.5	ug/L	101				53	162		
Acetone	250	0	260	ug/L	104				44	150		
Carbon disulfide	50	0	44.5	ug/L	89				44	135		
Methyl tert-butyl Ether	50	0	60.9	ug/L	122				82	133		
Methyl Acetate	50	0	45.3	ug/L	91				76	138		
Methylene Chloride	50	0	49.2	ug/L	98				79	115		
trans-1,2-Dichloroethene	50	0	48.5	ug/L	97				76	118		
1,1-Dichloroethane	50	0	50.0	ug/L	100				78	122		
Cyclohexane	50	38.5	79.3	ug/L	82				71	119		
2-Butanone	250	12.1	240	ug/L	91				67	137		
Carbon Tetrachloride	50	0	49.9	ug/L	100				66	133		
cis-1,2-Dichloroethene	50	0	52.3	ug/L	105				82	124		
Bromochloromethane	50	0	40.7	ug/L	81				72	130		
Chloroform	50	0	55.8	ug/L	112				83	119		
1,1,1-Trichloroethane	50	0	50.2	ug/L	100				83	117		
Methylcyclohexane	50	41.1	83.1	ug/L	84				64	120		
Benzene	50	99.8	160	ug/L	120				81	128		
1,2-Dichloroethane	50	0	48.0	ug/L	96				76	120		
Trichloroethene	50	0	52.0	ug/L	104				28	175		
1,2-Dichloropropane	50	0	50.0	ug/L	100				85	116		
Bromodichloromethane	50	0	53.4	ug/L	107				54	157		
4-Methyl-2-Pentanone	250	0	240	ug/L	96				72	137		
Toluene	50	9.20	60.1	ug/L	102				85	115		
t-1,3-Dichloropropene	50	0	48.8	ug/L	98				60	141		
cis-1,3-Dichloropropene	50	0	49.5	ug/L	99				36	161		
1,1,2-Trichloroethane	50	0	65.4	ug/L	131				27	175		
2-Hexanone	250	0	260	ug/L	104				75	131		
Dibromochloromethane	50	0	55.7	ug/L	111				59	164		
1,2-Dibromoethane	50	0	54.1	ug/L	108				85	119		
Tetrachloroethene	50	0	47.8	ug/L	96				48	153		
Chlorobenzene	50	0	51.9	ug/L	104				85	114		
Ethyl Benzene	50	370	490	ug/L	240		*		81	128		
m/p-Xylenes	100	480	660	ug/L	180		*		69	129		
o-Xylene	50	9.00	59.4	ug/L	101				75	127		
Styrene	50	0	52.0	ug/L	104				84	128		
Bromoform	50	0	58.8	ug/L	118				73	147		
Isopropylbenzene	50	41.8	100	ug/L	116				76	121		
1,1,2,2-Tetrachloroethane	50	0	56.0	ug/L	112				81	131		

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Rec	Qual	RPD	Qual	Low	High	RPD
1,3-Dichlorobenzene	50	0	51.3	ug/L	103					84	110
1,4-Dichlorobenzene	50	0	51.4	ug/L	103					81	111
1,2-Dichlorobenzene	50	0	52.2	ug/L	104					82	113
1,2-Dibromo-3-Chloropropane	50	0	51.3	ug/L	103					79	137
1,2,4-Trichlorobenzene	50	0	45.2	ug/L	90					73	120
1,2,3-Trichlorobenzene	50	0	45.6	ug/L	91					75	119

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample	Result	Units	Rec		RPD		Low	High	RPD
		Result			Qual	RPD	Qual				
Lab Sample ID :	Q2268-05MSD	Client Sample ID :	MW-2-20250605MSD					Datafile :	VN086993.D		
Dichlorodifluoromethane	50	0	50.4	ug/L	101		21	*	73	120	20
Chloromethane	50	0	39.8	ug/L	80		11		58	133	20
Vinyl chloride	50	0	51.8	ug/L	104		13		69	125	20
Bromomethane	50	0	25.1	ug/L	50		31	*	28	165	20
Chloroethane	50	0	54.8	ug/L	110		13		70	141	20
Trichlorofluoromethane	50	0	56.8	ug/L	114		15		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	55.1	ug/L	110		21	*	75	117	20
1,1-Dichloroethene	50	0	57.8	ug/L	116		13		53	162	20
Acetone	250	0	300	ug/L	120		14		44	150	20
Carbon disulfide	50	0	51.4	ug/L	103		14		44	135	20
Methyl tert-butyl Ether	50	0	69.1	ug/L	138	*	13		82	133	20
Methyl Acetate	50	0	50.5	ug/L	101		11		76	138	20
Methylene Chloride	50	0	55.6	ug/L	111		12		79	115	20
trans-1,2-Dichloroethene	50	0	55.4	ug/L	111		13		76	118	20
1,1-Dichloroethane	50	0	56.3	ug/L	113		12		78	122	20
Cyclohexane	50	38.5	100	ug/L	123	*	40	*	71	119	20
2-Butanone	250	12.1	270	ug/L	103		12		67	137	20
Carbon Tetrachloride	50	0	57.7	ug/L	115		14		66	133	20
cis-1,2-Dichloroethene	50	0	59.5	ug/L	119		13		82	124	20
Bromochloromethane	50	0	47.7	ug/L	95		16		72	130	20
Chloroform	50	0	64.7	ug/L	129	*	15		83	119	20
1,1,1-Trichloroethane	50	0	55.5	ug/L	111		10		83	117	20
Methylcyclohexane	50	41.1	110	ug/L	138	*	49	*	64	120	20
Benzene	50	99.8	220	ug/L	240	*	67	*	81	128	20
1,2-Dichloroethane	50	0	55.3	ug/L	111		14		76	120	20
Trichloroethene	50	0	61.2	ug/L	122		16		28	175	20
1,2-Dichloropropane	50	0	57.8	ug/L	116		14		85	116	20
Bromodichloromethane	50	0	63.2	ug/L	126		17		54	157	20
4-Methyl-2-Pentanone	250	0	260	ug/L	104		8		72	137	20
Toluene	50	9.20	72.0	ug/L	126	*	21	*	85	115	20
t-1,3-Dichloropropene	50	0	56.7	ug/L	113		15		60	141	20
cis-1,3-Dichloropropene	50	0	56.6	ug/L	113		13		36	161	20
1,1,2-Trichloroethane	50	0	79.4	ug/L	159		19		27	175	20
2-Hexanone	250	0	290	ug/L	116		11		75	131	20
Dibromochloromethane	50	0	63.6	ug/L	127		13		59	164	20
1,2-Dibromoethane	50	0	62.0	ug/L	124	*	14		85	119	20
Tetrachloroethene	50	0	58.0	ug/L	116		19		48	153	20
Chlorobenzene	50	0	60.5	ug/L	121	*	15		85	114	20
Ethyl Benzene	50	370	660	ug/L	580	*	83	*	81	128	20
m/p-Xylenes	100	480	890	ug/L	410	*	78	*	69	129	20
o-Xylene	50	9.00	67.3	ug/L	117		15		75	127	20
Styrene	50	0	60.9	ug/L	122		16		84	128	20
Bromoform	50	0	67.5	ug/L	135		14		73	147	20
Isopropylbenzene	50	41.8	130	ug/L	176	*	41	*	76	121	20
1,1,2,2-Tetrachloroethane	50	0	63.2	ug/L	126		12		81	131	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec			RPD		Limits	
					Rec	Qual	RPD	Qual	Low	High	RPD
1,3-Dichlorobenzene	50	0	61.3	ug/L	123	*	18		84	110	20
1,4-Dichlorobenzene	50	0	60.8	ug/L	122	*	17		81	111	20
1,2-Dichlorobenzene	50	0	59.8	ug/L	120	*	14		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	56.5	ug/L	113		10		79	137	20
1,2,4-Trichlorobenzene	50	0	54.0	ug/L	108		18		73	120	20
1,2,3-Trichlorobenzene	50	0	53.3	ug/L	107		16		75	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN086970.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0612WBS01	Dichlorodifluoromethane	20	21.1	ug/L	106			69	116	
	Chloromethane	20	17.5	ug/L	88			65	116	
	Vinyl chloride	20	21.0	ug/L	105			65	117	
	Bromomethane	20	17.5	ug/L	88			58	125	
	Chloroethane	20	21.8	ug/L	109			56	128	
	Trichlorofluoromethane	20	21.7	ug/L	109			73	115	
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106			80	112	
	1,1-Dichloroethene	20	21.1	ug/L	106			74	110	
	Acetone	100	98.2	ug/L	98			60	125	
	Carbon disulfide	20	19.0	ug/L	95			64	112	
	Methyl tert-butyl Ether	20	21.9	ug/L	110			78	114	
	Methyl Acetate	20	22.0	ug/L	110			67	125	
	Methylene Chloride	20	21.2	ug/L	106			72	114	
	trans-1,2-Dichloroethene	20	20.4	ug/L	102			75	108	
	1,1-Dichloroethane	20	22.0	ug/L	110			78	112	
	Cyclohexane	20	18.9	ug/L	95			75	110	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	21.6	ug/L	108			77	113	
	cis-1,2-Dichloroethene	20	22.0	ug/L	110			77	110	
	Bromochloromethane	20	23.7	ug/L	119			70	124	
	Chloroform	20	21.9	ug/L	110			79	113	
	1,1,1-Trichloroethane	20	21.7	ug/L	109		*	80	108	
	Methylcyclohexane	20	17.5	ug/L	88			72	115	
	Benzene	20	21.3	ug/L	106			82	109	
	1,2-Dichloroethane	20	21.8	ug/L	109			80	115	
	Trichloroethene	20	21.0	ug/L	105			77	113	
	1,2-Dichloropropane	20	22.3	ug/L	112		*	83	111	
	Bromodichloromethane	20	22.0	ug/L	110			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	21.1	ug/L	106			82	110	
	t-1,3-Dichloropropene	20	22.1	ug/L	111		*	79	110	
	cis-1,3-Dichloropropene	20	22.0	ug/L	110			82	110	
	1,1,2-Trichloroethane	20	22.8	ug/L	114		*	83	112	
	2-Hexanone	100	97.9	ug/L	98			73	117	
	Dibromochloromethane	20	22.3	ug/L	112		*	82	110	
	1,2-Dibromoethane	20	22.1	ug/L	111		*	81	110	
	Tetrachloroethene	20	19.7	ug/L	99			67	123	
	Chlorobenzene	20	21.7	ug/L	109			82	109	
	Ethyl Benzene	20	20.9	ug/L	104			83	109	
	m/p-Xylenes	40	42.5	ug/L	106			82	110	
	o-Xylene	20	21.4	ug/L	107			83	109	
	Styrene	20	21.4	ug/L	107			80	111	
	Bromoform	20	22.9	ug/L	115		*	79	109	
	Isopropylbenzene	20	20.5	ug/L	103			83	112	
	1,1,2,2-Tetrachloroethane	20	22.7	ug/L	114			76	118	
	1,3-Dichlorobenzene	20	21.3	ug/L	106			82	108	
	1,4-Dichlorobenzene	20	22.0	ug/L	110		*	82	107	
	1,2-Dichlorobenzene	20	21.9	ug/L	110		*	82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN086970.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0612WBS01	1,2-Dibromo-3-Chloropropane	20	20.6	ug/L	103			68	112	
	1,2,4-Trichlorobenzene	20	19.6	ug/L	98			75	113	
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN087000.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0613WBS01	Dichlorodifluoromethane	20	21.5	ug/L	108			69	116	
	Chloromethane	20	18.6	ug/L	93			65	116	
	Vinyl chloride	20	22.4	ug/L	112			65	117	
	Bromomethane	20	18.5	ug/L	93			58	125	
	Chloroethane	20	21.8	ug/L	109			56	128	
	Trichlorofluoromethane	20	21.6	ug/L	108			73	115	
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/L	106			80	112	
	1,1-Dichloroethene	20	22.2	ug/L	111		*	74	110	
	Acetone	100	86.7	ug/L	87			60	125	
	Carbon disulfide	20	23.4	ug/L	117		*	64	112	
	Methyl tert-butyl Ether	20	20.1	ug/L	101			78	114	
	Methyl Acetate	20	16.2	ug/L	81			67	125	
	Methylene Chloride	20	20.4	ug/L	102			72	114	
	trans-1,2-Dichloroethene	20	21.4	ug/L	107			75	108	
	1,1-Dichloroethane	20	20.5	ug/L	103			78	112	
	Cyclohexane	20	19.7	ug/L	99			75	110	
	2-Butanone	100	91.2	ug/L	91			65	122	
	Carbon Tetrachloride	20	21.4	ug/L	107			77	113	
	cis-1,2-Dichloroethene	20	21.5	ug/L	108			77	110	
	Bromochloromethane	20	21.7	ug/L	109			70	124	
	Chloroform	20	20.5	ug/L	103			79	113	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			80	108	
	Methylcyclohexane	20	19.2	ug/L	96			72	115	
	Benzene	20	21.5	ug/L	108			82	109	
	1,2-Dichloroethane	20	21.1	ug/L	106			80	115	
	Trichloroethene	20	21.9	ug/L	110			77	113	
	1,2-Dichloropropane	20	20.9	ug/L	104			83	111	
	Bromodichloromethane	20	21.4	ug/L	107			83	110	
	4-Methyl-2-Pentanone	100	99.2	ug/L	99			74	118	
	Toluene	20	21.8	ug/L	109			82	110	
	t-1,3-Dichloropropene	20	21.1	ug/L	106			79	110	
	cis-1,3-Dichloropropene	20	21.3	ug/L	106			82	110	
	1,1,2-Trichloroethane	20	21.3	ug/L	106			83	112	
	2-Hexanone	100	89.7	ug/L	90			73	117	
	Dibromochloromethane	20	21.9	ug/L	110			82	110	
	1,2-Dibromoethane	20	21.6	ug/L	108			81	110	
	Tetrachloroethene	20	21.7	ug/L	109			67	123	
	Chlorobenzene	20	21.7	ug/L	109			82	109	
	Ethyl Benzene	20	21.3	ug/L	106			83	109	
	m/p-Xylenes	40	43.9	ug/L	110			82	110	
	o-Xylene	20	22.0	ug/L	110		*	83	109	
	Styrene	20	21.6	ug/L	108			80	111	
	Bromoform	20	22.7	ug/L	114		*	79	109	
	Isopropylbenzene	20	20.3	ug/L	102			83	112	
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105			76	118	
	1,3-Dichlorobenzene	20	21.2	ug/L	106			82	108	
	1,4-Dichlorobenzene	20	21.3	ug/L	106			82	107	
	1,2-Dichlorobenzene	20	20.7	ug/L	104			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN087000.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0613WBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			68	112	
	1,2,4-Trichlorobenzene	20	19.1	ug/L	96			75	113	
	1,2,3-Trichlorobenzene	20	18.5	ug/L	93			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN087020.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0616WBS01	Dichlorodifluoromethane	20	19.0	ug/L	95			69	116	
	Chloromethane	20	15.5	ug/L	78			65	116	
	Vinyl chloride	20	19.9	ug/L	100			65	117	
	Bromomethane	20	13.7	ug/L	69			58	125	
	Chloroethane	20	19.1	ug/L	96			56	128	
	Trichlorofluoromethane	20	19.2	ug/L	96			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/L	95			80	112	
	1,1-Dichloroethene	20	19.1	ug/L	96			74	110	
	Acetone	100	77.7	ug/L	78			60	125	
	Carbon disulfide	20	20.8	ug/L	104			64	112	
	Methyl tert-butyl Ether	20	17.8	ug/L	89			78	114	
	Methyl Acetate	20	14.2	ug/L	71			67	125	
	Methylene Chloride	20	17.8	ug/L	89			72	114	
	trans-1,2-Dichloroethene	20	18.9	ug/L	95			75	108	
	1,1-Dichloroethane	20	18.4	ug/L	92			78	112	
	Cyclohexane	20	17.5	ug/L	88			75	110	
	2-Butanone	100	80.1	ug/L	80			65	122	
	Carbon Tetrachloride	20	18.7	ug/L	94			77	113	
	cis-1,2-Dichloroethene	20	18.6	ug/L	93			77	110	
	Bromochloromethane	20	17.1	ug/L	86			70	124	
	Chloroform	20	18.3	ug/L	92			79	113	
	1,1,1-Trichloroethane	20	18.0	ug/L	90			80	108	
	Methylcyclohexane	20	16.9	ug/L	85			72	115	
	Benzene	20	19.2	ug/L	96			82	109	
	1,2-Dichloroethane	20	18.3	ug/L	92			80	115	
	Trichloroethene	20	19.4	ug/L	97			77	113	
	1,2-Dichloropropane	20	18.6	ug/L	93			83	111	
	Bromodichloromethane	20	18.8	ug/L	94			83	110	
	4-Methyl-2-Pentanone	100	85.8	ug/L	86			74	118	
	Toluene	20	19.1	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	18.8	ug/L	94			79	110	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			82	110	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			83	112	
	2-Hexanone	100	77.8	ug/L	78			73	117	
	Dibromochloromethane	20	19.3	ug/L	97			82	110	
	1,2-Dibromoethane	20	18.6	ug/L	93			81	110	
	Tetrachloroethene	20	19.2	ug/L	96			67	123	
	Chlorobenzene	20	19.4	ug/L	97			82	109	
	Ethyl Benzene	20	18.6	ug/L	93			83	109	
	m/p-Xylenes	40	38.8	ug/L	97			82	110	
	o-Xylene	20	19.5	ug/L	98			83	109	
	Styrene	20	19.0	ug/L	95			80	111	
	Bromoform	20	19.9	ug/L	100			79	109	
	Isopropylbenzene	20	17.7	ug/L	89			83	112	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94			76	118	
	1,3-Dichlorobenzene	20	18.3	ug/L	92			82	108	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			82	107	
	1,2-Dichlorobenzene	20	18.6	ug/L	93			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2268

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VN087020.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0616WBS01	1,2-Dibromo-3-Chloropropane	20	17.0	ug/L	85			68	112	
	1,2,4-Trichlorobenzene	20	16.9	ug/L	85			75	113	
	1,2,3-Trichlorobenzene	20	16.0	ug/L	80			76	114	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0612WBL01

Lab Name: CHEMTECH

Contract: PARS02

Lab Code: CHEM Case No.: Q2268

SAS No.: Q2268 SDG NO.: Q2268

Lab File ID: VN086969.D

Lab Sample ID: VN0612WBL01

Date Analyzed: 06/12/2025

Time Analyzed: 11:55

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
VN0612WBS01	VN0612WBS01	VN086970.D	06/12/2025
TB-20250605	Q2268-09	VN086984.D	06/12/2025
FB-20250605	Q2268-10	VN086985.D	06/12/2025
MW-4-20250605	Q2268-01	VN086986.D	06/12/2025
MW-5-20250605	Q2268-02	VN086987.D	06/12/2025
MW-2-20250605-A	Q2268-06	VN086988.D	06/12/2025
MW-6-20250605	Q2268-07	VN086989.D	06/12/2025
MW-3-20250605	Q2268-08	VN086990.D	06/12/2025
MW-2-20250605	Q2268-03	VN086991.D	06/12/2025
MW-2-20250605MS	Q2268-04MS	VN086992.D	06/12/2025
MW-2-20250605MSD	Q2268-05MSD	VN086993.D	06/12/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0613WBL01

Lab Name: CHEMTECH

Contract: PARS02

Lab Code: CHEM Case No.: Q2268

SAS No.: Q2268 SDG NO.: Q2268

Lab File ID: VN086998.D

Lab Sample ID: VN0613WBL01

Date Analyzed: 06/13/2025

Time Analyzed: 13:47

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
VN0613WBS01	VN0613WBS01	VN087000.D	06/13/2025
MW-2-20250605DL	Q2268-03DL	VN087010.D	06/13/2025
MW-2-20250605-ADL	Q2268-06DL	VN087011.D	06/13/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0616WBL01

Lab Name: CHEMTECH

Contract: PARS02

Lab Code: CHEM Case No.: Q2268

SAS No.: Q2268 SDG NO.: Q2268

Lab File ID: VN087019.D

Lab Sample ID: VN0616WBL01

Date Analyzed: 06/16/2025

Time Analyzed: 10:43

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
VN0616WBS01	VN0616WBS01	VN087020.D	06/16/2025
MW-6-20250605DL	Q2268-07DL	VN087041.D	06/16/2025
MW-3-20250605DL	Q2268-08DL	VN087042.D	06/16/2025

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
Lab File ID: VN086861.D BFB Injection Date: 06/06/2025
Instrument ID: MSVOA_N BFB Injection Time: 07:59
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	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN086862.D	06/06/2025	12:44
VSTDIC005	VSTDIC005	VN086863.D	06/06/2025	13:17
VSTDIC020	VSTDIC020	VN086864.D	06/06/2025	13:40
VSTDIC050	VSTDIC050	VN086865.D	06/06/2025	14:03
VSTDIC100	VSTDIC100	VN086866.D	06/06/2025	14:26
VSTDIC150	VSTDIC150	VN086867.D	06/06/2025	14:49



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
Lab File ID: VN086966.D BFB Injection Date: 06/12/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:25
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	15.7
75	30.0 - 60.0% of mass 95	48
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	69.8
175	5.0 - 9.0% of mass 174	5.2 (7.5) 1
176	95.0 - 101.0% of mass 174	67.4 (96.6) 1
177	5.0 - 9.0% of mass 176	4.2 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086967.D	06/12/2025	10:58
VN0612WBL01	VN0612WBL01	VN086969.D	06/12/2025	11:55
VN0612WBS01	VN0612WBS01	VN086970.D	06/12/2025	12:17
TB-20250605	Q2268-09	VN086984.D	06/12/2025	17:48
FB-20250605	Q2268-10	VN086985.D	06/12/2025	18:10
MW-4-20250605	Q2268-01	VN086986.D	06/12/2025	18:33
MW-5-20250605	Q2268-02	VN086987.D	06/12/2025	18:56
MW-2-20250605-A	Q2268-06	VN086988.D	06/12/2025	19:18
MW-6-20250605	Q2268-07	VN086989.D	06/12/2025	19:41
MW-3-20250605	Q2268-08	VN086990.D	06/12/2025	20:04
MW-2-20250605	Q2268-03	VN086991.D	06/12/2025	20:26
MW-2-20250605MS	Q2268-04MS	VN086992.D	06/12/2025	20:48
MW-2-20250605MSD	Q2268-05MSD	VN086993.D	06/12/2025	21:11



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
Lab File ID: VN086995.D BFB Injection Date: 06/13/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:26
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	15.3
75	30.0 - 60.0% of mass 95	45.6
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 (0.9) 1
174	50.0 - 100.0% of mass 95	73.2
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	69.5 (94.9) 1
177	5.0 - 9.0% of mass 176	4.4 (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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086996.D	06/13/2025	12:52
VN0613WBL01	VN0613WBL01	VN086998.D	06/13/2025	13:47
VN0613WBS01	VN0613WBS01	VN087000.D	06/13/2025	14:32
MW-2-20250605DL	Q2268-03DL	VN087010.D	06/13/2025	18:24
MW-2-20250605-ADL	Q2268-06DL	VN087011.D	06/13/2025	18:46



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
Lab File ID: VN087016.D BFB Injection Date: 06/16/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:39
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	15.1
75	30.0 - 60.0% of mass 95	45.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	71.7
175	5.0 - 9.0% of mass 174	5.4 (7.6) 1
176	95.0 - 101.0% of mass 174	70.4 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087017.D	06/16/2025	09:48
VN0616WBL01	VN0616WBL01	VN087019.D	06/16/2025	10:43
VN0616WBS01	VN0616WBS01	VN087020.D	06/16/2025	11:04
MW-6-20250605DL	Q2268-07DL	VN087041.D	06/16/2025	18:45
MW-3-20250605DL	Q2268-08DL	VN087042.D	06/16/2025	19:07

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
 Lab File ID: VN086967.D Date Analyzed: 06/12/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:58
 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	185417	8.23	334881	9.11	291913	11.87
UPPER LIMIT	370834	8.729	669762	9.606	583826	12.365
LOWER LIMIT	92708.5	7.729	167441	8.606	145957	11.365
EPA SAMPLE NO.						
MW-4-20250605	290913	8.24	573001	9.11	515947	11.87
MW-5-20250605	244434	8.24	483373	9.11	434597	11.87
MW-2-20250605	259006	8.23	488303	9.11	432945	11.87
MW-2-20250605MS	232985	8.24	427205	9.11	372041	11.87
MW-2-20250605MSD	173076	8.24	307412	9.11	267750	11.87
MW-2-20250605-A	287973	8.24	564200	9.11	499730	11.87
MW-6-20250605	198700	8.23	383576	9.11	340087	11.87
MW-3-20250605	240809	8.24	472342	9.11	416914	11.87
TB-20250605	283433	8.24	552519	9.11	494879	11.87
FB-20250605	274527	8.24	543078	9.11	482706	11.87
VN0612WBL01	293212	8.23	559485	9.11	496764	11.87
VN0612WBS01	173273	8.24	314156	9.11	274906	11.87

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: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
 Lab File ID: VN086967.D Date Analyzed: 06/12/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:58
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	144672	13.794				
UPPER LIMIT	289344	14.294				
LOWER LIMIT	72336	13.294				
EPA SAMPLE NO.						
MW-4-20250605	245935	13.79				
MW-5-20250605	206986	13.79				
MW-2-20250605	195427	13.79				
MW-2-20250605MS	171326	13.79				
MW-2-20250605MSD	123846	13.79				
MW-2-20250605-A	234750	13.79				
MW-6-20250605	149213	13.79				
MW-3-20250605	170552	13.79				
TB-20250605	234248	13.79				
FB-20250605	228705	13.79				
VN0612WBL01	239856	13.79				
VN0612WBS01	136822	13.79				

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: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
 Lab File ID: VN086996.D Date Analyzed: 06/13/2025
 Instrument ID: MSVOA_N Time Analyzed: 12:52
 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	190412	8.23	349185	9.11	311622	11.87
UPPER LIMIT	380824	8.73	698370	9.606	623244	12.365
LOWER LIMIT	95206	7.73	174593	8.606	155811	11.365
EPA SAMPLE NO.						
MW-2-20250605DL	270034	8.23	535823	9.11	478755	11.87
MW-2-20250605-ADL	277353	8.24	545405	9.11	483679	11.87
VN0613WBL01	317214	8.24	606954	9.11	536496	11.87
VN0613WBS01	193820	8.23	342767	9.11	297937	11.87

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: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
 Lab File ID: VN086996.D Date Analyzed: 06/13/2025
 Instrument ID: MSVOA_N Time Analyzed: 12:52
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	154974	13.794				
UPPER LIMIT	309948	14.294				
LOWER LIMIT	77487	13.294				
EPA SAMPLE NO.						
MW-2-20250605DL	229728	13.79				
MW-2-20250605-ADL	232571	13.79				
VN0613WBL01	258118	13.79				
VN0613WBS01	150656	13.79				

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: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
Lab File ID: VN087017.D Date Analyzed: 06/16/2025
Instrument ID: MSVOA_N Time Analyzed: 09:48
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	190027	8.23	334516	9.11	287112	11.87
UPPER LIMIT	380054	8.73	669032	9.606	574224	12.365
LOWER LIMIT	95013.5	7.73	167258	8.606	143556	11.365
EPA SAMPLE NO.						
MW-6-20250605DL	253695	8.23	507247	9.11	456316	11.87
MW-3-20250605DL	263151	8.23	520533	9.11	469764	11.87
VN0616WBL01	283331	8.23	556820	9.11	493060	11.87
VN0616WBS01	198479	8.23	351201	9.11	304875	11.87

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: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG NO.: Q2268
 Lab File ID: VN087017.D Date Analyzed: 06/16/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:48
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	143033	13.788				
UPPER LIMIT	286066	14.288				
LOWER LIMIT	71516.5	13.288				
EPA SAMPLE NO.						
MW-6-20250605DL	217980	13.79				
MW-3-20250605DL	224894	13.79				
VN0616WBL01	235789	13.79				
VN0616WBS01	154394	13.79				

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:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-4-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086986.D	1		06/12/25 18:33	VN061225

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	1.10		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	UQ	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	UQ	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:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25	
Client Sample ID:	MW-4-20250605			SDG No.:	Q2268	
Lab Sample ID:	Q2268-01			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086986.D	1		06/12/25 18:33	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	UQ	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	UQ	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	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	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	UQ	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	UQ	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	UQ	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	52.8		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	52.1		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	291000	8.236			
540-36-3	1,4-Difluorobenzene	573000	9.106			
3114-55-4	Chlorobenzene-d5	516000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	246000	13.794			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-4-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086986.D	1		06/12/25 18:33	VN061225

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\VN061225\
 Data File : VN086986.D
 Acq On : 12 Jun 2025 18:33
 Operator : JC\MD
 Sample : Q2268-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-20250605

Quant Time: Jun 13 01:32:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

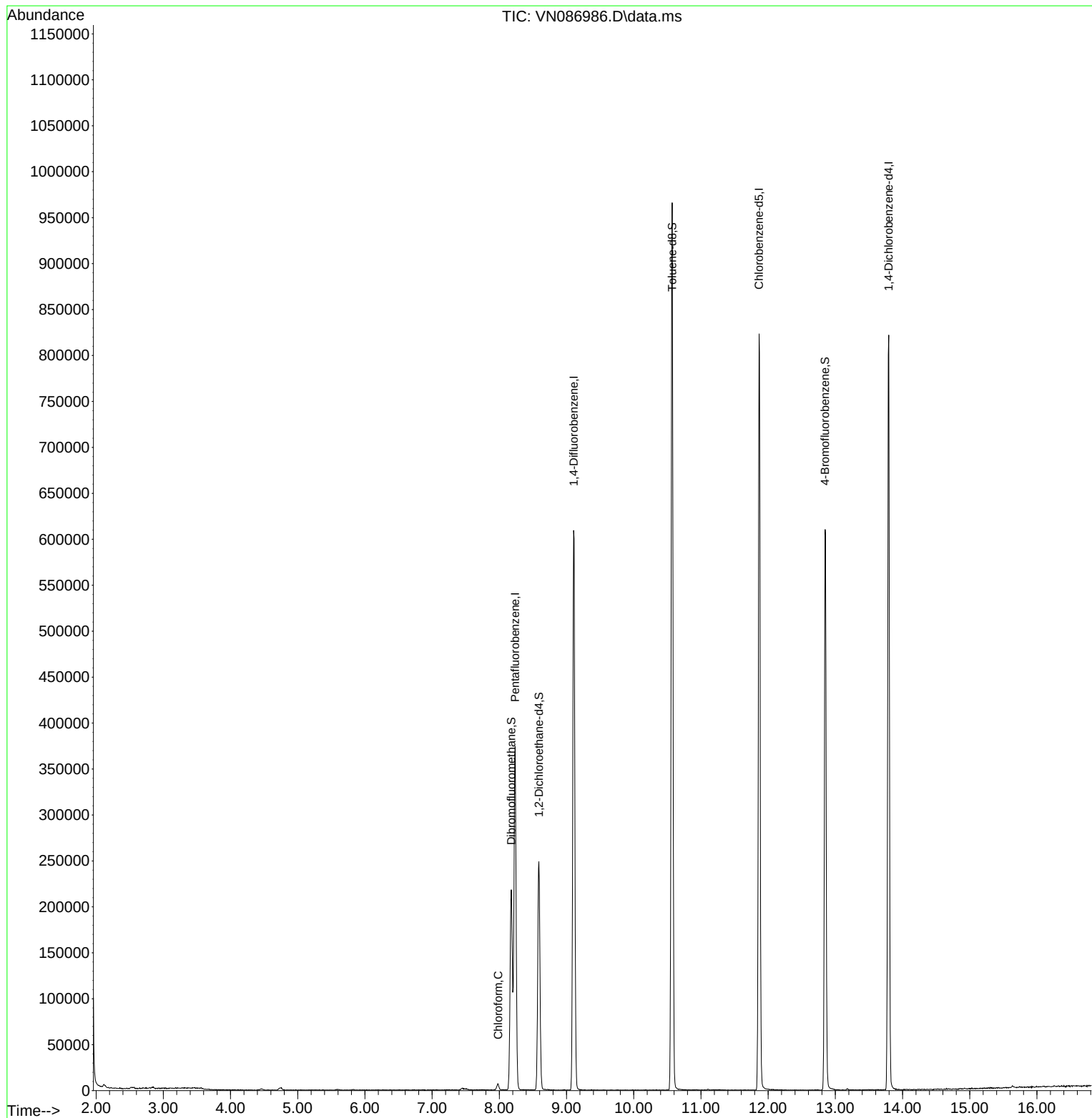
Internal Standards						
1) Pentafluorobenzene	8.236	168	290913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	573001	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	515947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	245935	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	205650	52.798	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	105.600%	
35) Dibromofluoromethane	8.177	113	170765	50.288	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	100.580%	
50) Toluene-d8	10.571	98	700800	52.132	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	104.260%	
62) 4-Bromofluorobenzene	12.847	95	251186	50.293	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	100.580%	
Target Compounds						
					Qvalue	
30) Chloroform	7.983	83	6861	1.055	ug/l	85

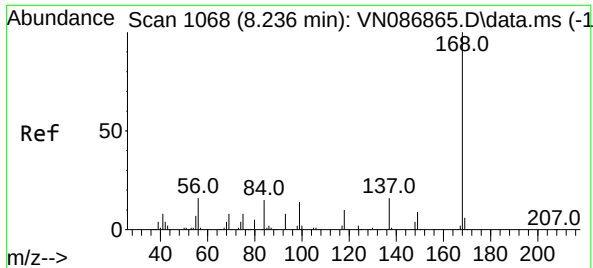
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086986.D
Acq On : 12 Jun 2025 18:33
Operator : JC\MD
Sample : Q2268-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

Quant Time: Jun 13 01:32:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

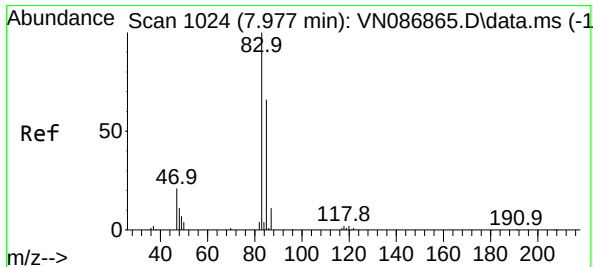
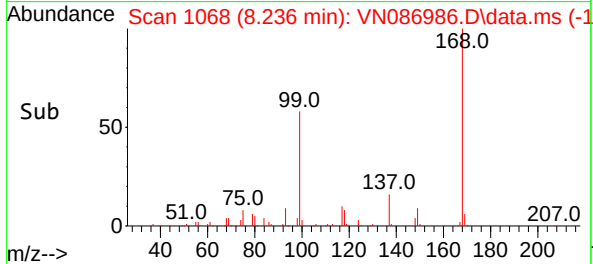
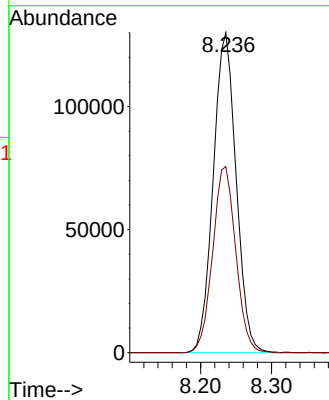
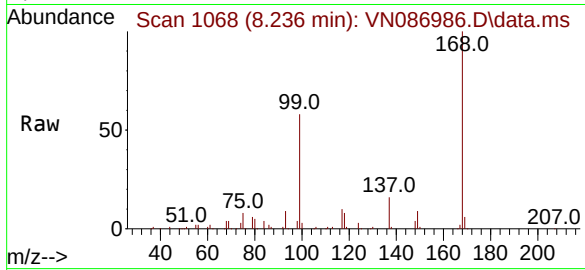




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN086986.D
Acq: 12 Jun 2025 18:33

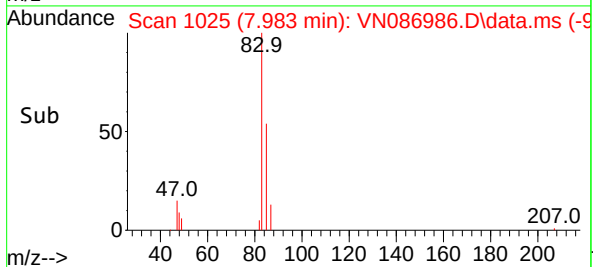
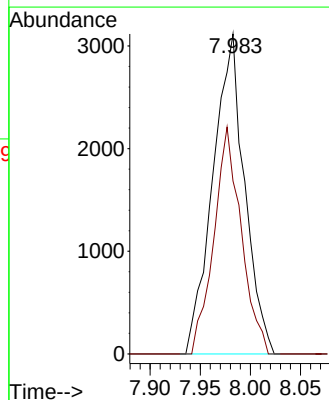
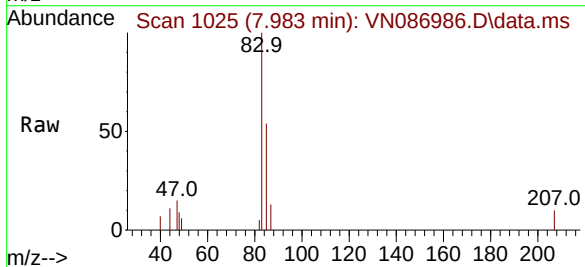
Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

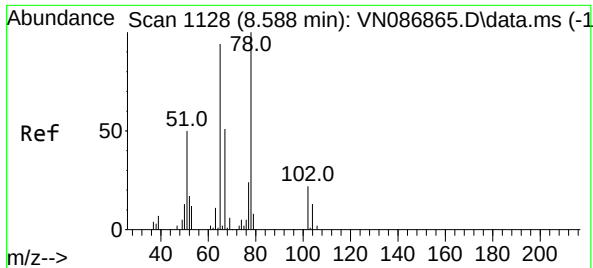
Tgt Ion:168 Resp: 290913
Ion Ratio Lower Upper
168 100
99 58.1 49.1 73.7



#30
Chloroform
Concen: 1.055 ug/l
RT: 7.983 min Scan# 1025
Delta R.T. 0.006 min
Lab File: VN086986.D
Acq: 12 Jun 2025 18:33

Tgt Ion: 83 Resp: 6861
Ion Ratio Lower Upper
83 100
85 54.1 52.9 79.3





#33

1,2-Dichloroethane-d4

Concen: 52.798 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086986.D

Acq: 12 Jun 2025 18:33

Instrument :

MSVOA_N

ClientSampleId :

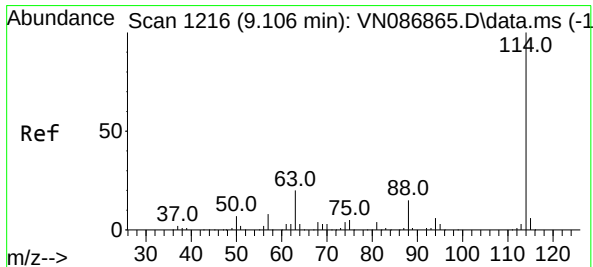
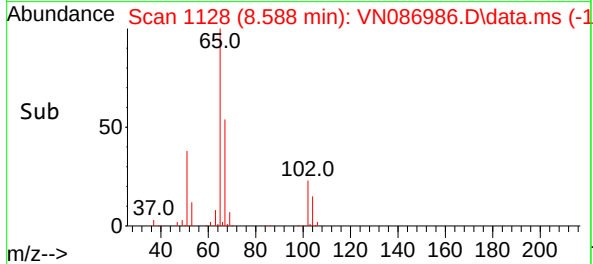
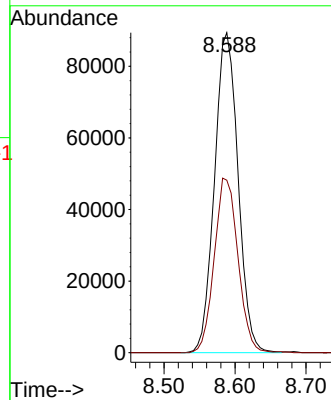
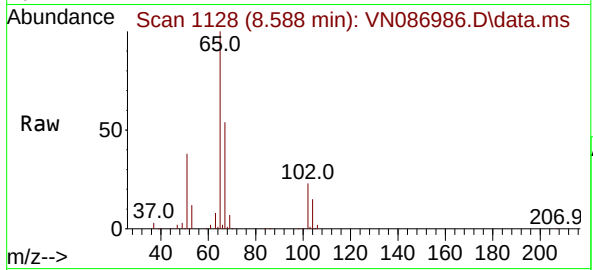
MW-4-20250605

Tgt Ion: 65 Resp: 205650

Ion Ratio Lower Upper

65 100

67 54.9 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086986.D

Acq: 12 Jun 2025 18:33

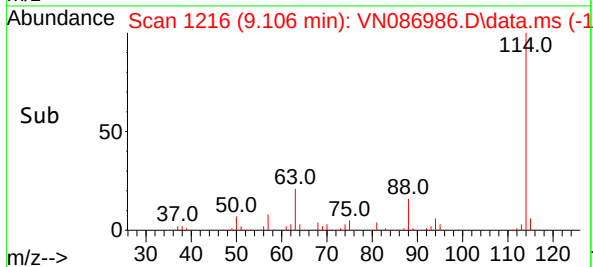
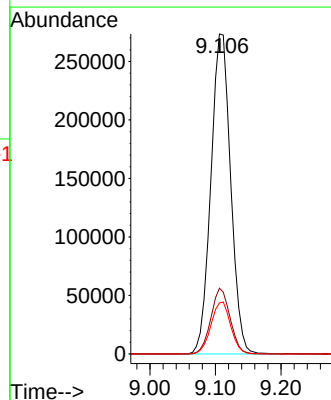
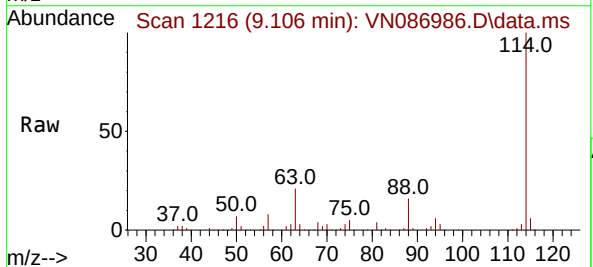
Tgt Ion: 114 Resp: 573001

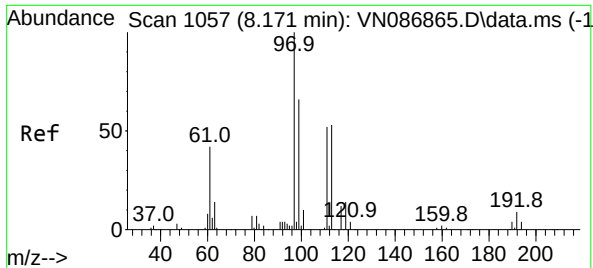
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

88 16.0 0.0 30.2

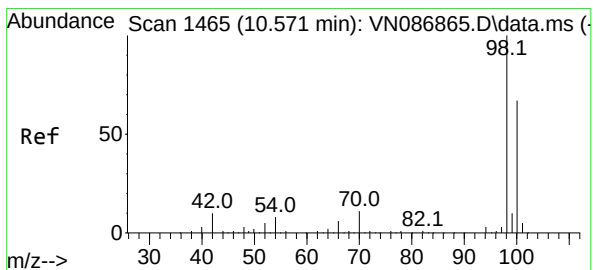
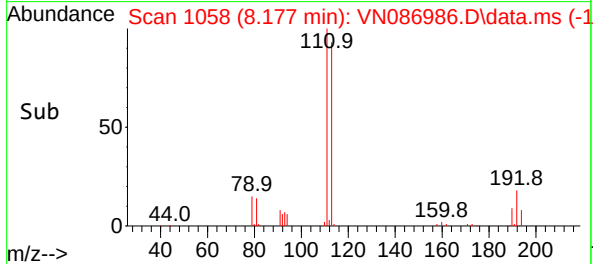
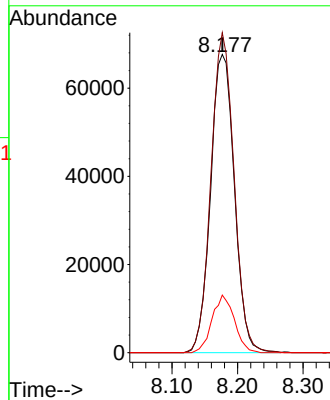
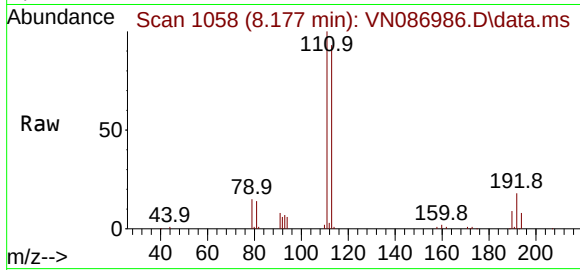




#35
Dibromofluoromethane
Concen: 50.288 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086986.D
Acq: 12 Jun 2025 18:33

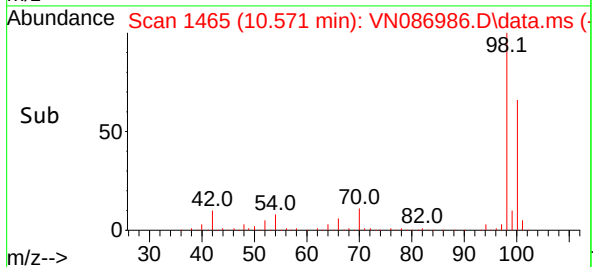
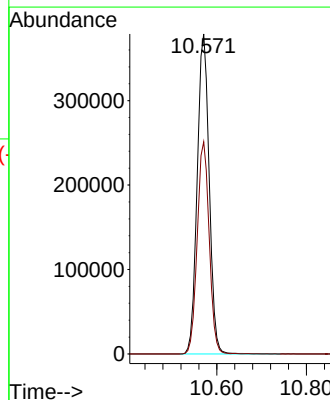
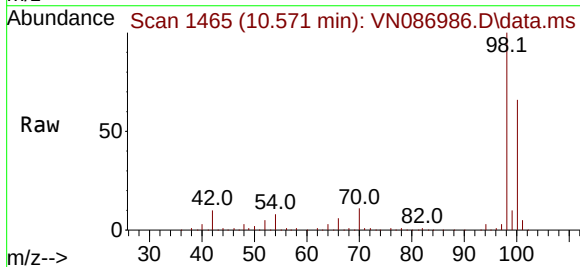
Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

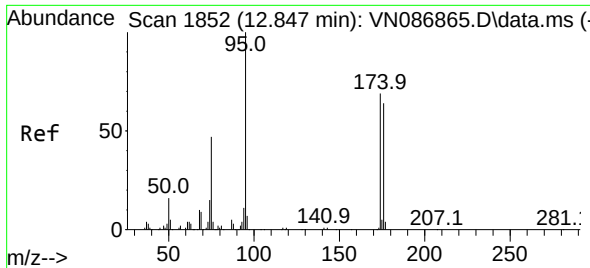
Tgt Ion:113 Resp: 170765
Ion Ratio Lower Upper
113 100
111 103.6 84.2 126.2
192 18.1 14.2 21.4



#50
Toluene-d8
Concen: 52.132 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086986.D
Acq: 12 Jun 2025 18:33

Tgt Ion: 98 Resp: 700800
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0

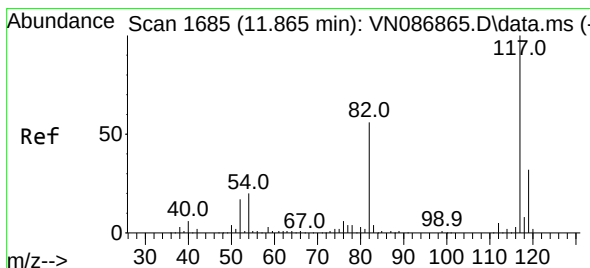
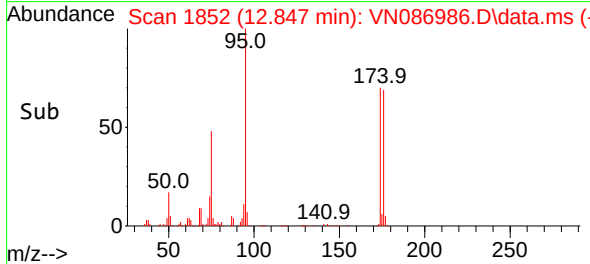
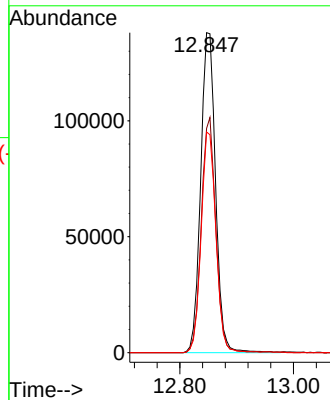
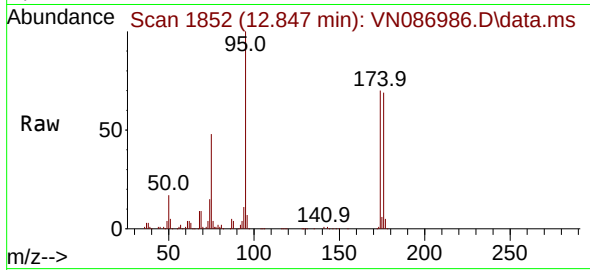




#62
4-Bromofluorobenzene
Concen: 50.293 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086986.D
Acq: 12 Jun 2025 18:33

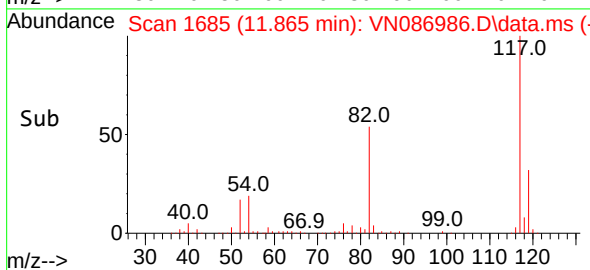
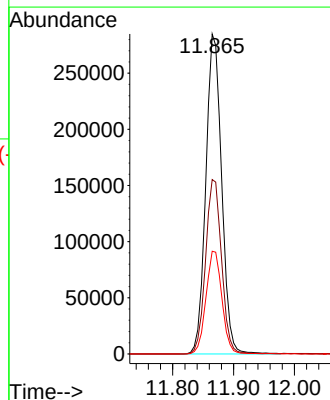
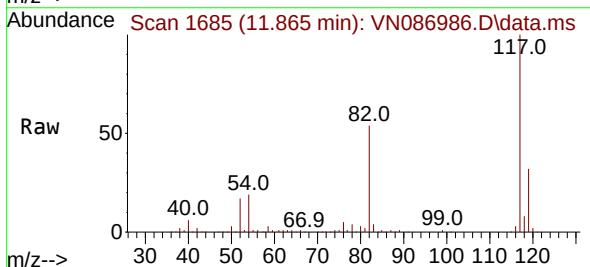
Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

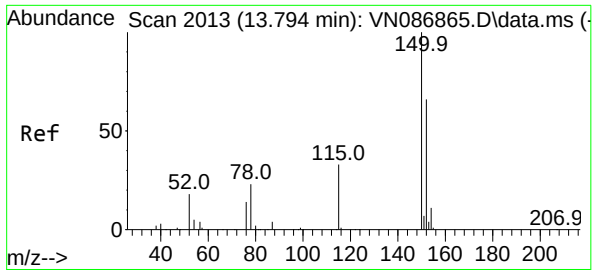
Tgt Ion: 95 Resp: 251186
Ion Ratio Lower Upper
95 100
174 71.9 0.0 141.8
176 68.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086986.D
Acq: 12 Jun 2025 18:33

Tgt Ion: 117 Resp: 515947
Ion Ratio Lower Upper
117 100
82 54.5 44.6 67.0
119 32.1 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN086986.D

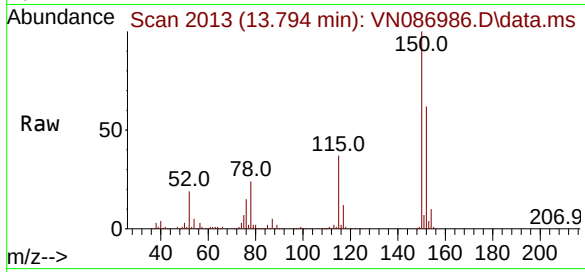
Acq: 12 Jun 2025 18:33

Instrument :

MSVOA_N

ClientSampleId :

MW-4-20250605



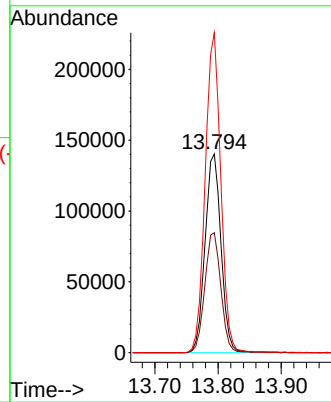
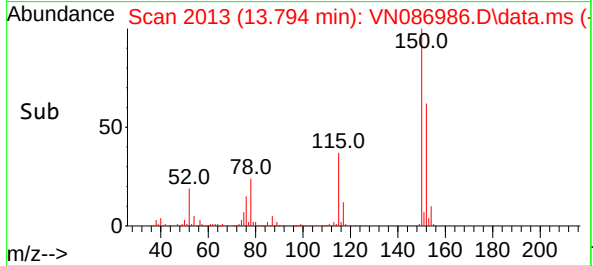
Tgt Ion:152 Resp: 245935

Ion Ratio Lower Upper

152 100

115 60.9 30.1 90.5

150 157.4 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086986.D
Acq On : 12 Jun 2025 18:33
Operator : JC\MD
Sample : Q2268-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086986.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	217891	520226	29.20%	5.755%
2	8.236	1062	1068	1081	rVB	373855	857752	48.14%	9.489%
3	8.588	1115	1128	1141	rBV	248632	572656	32.14%	6.335%
4	9.106	1208	1216	1232	rVB	609067	1276493	71.65%	14.122%
5	10.571	1456	1465	1479	rBV	965774	1781631	100.00%	19.710%
6	11.865	1677	1685	1702	rBV	822982	1495001	83.91%	16.539%
7	12.847	1844	1852	1868	rBV	610107	1095773	61.50%	12.122%
8	13.794	2005	2013	2025	rBV	821450	1439712	80.81%	15.927%

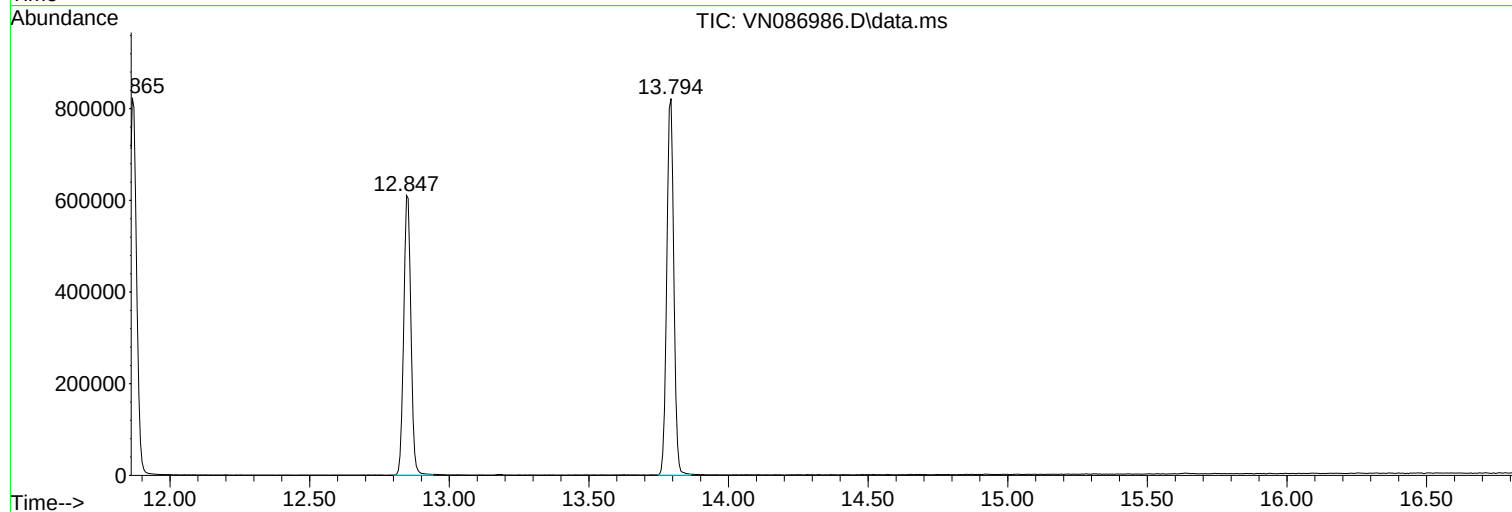
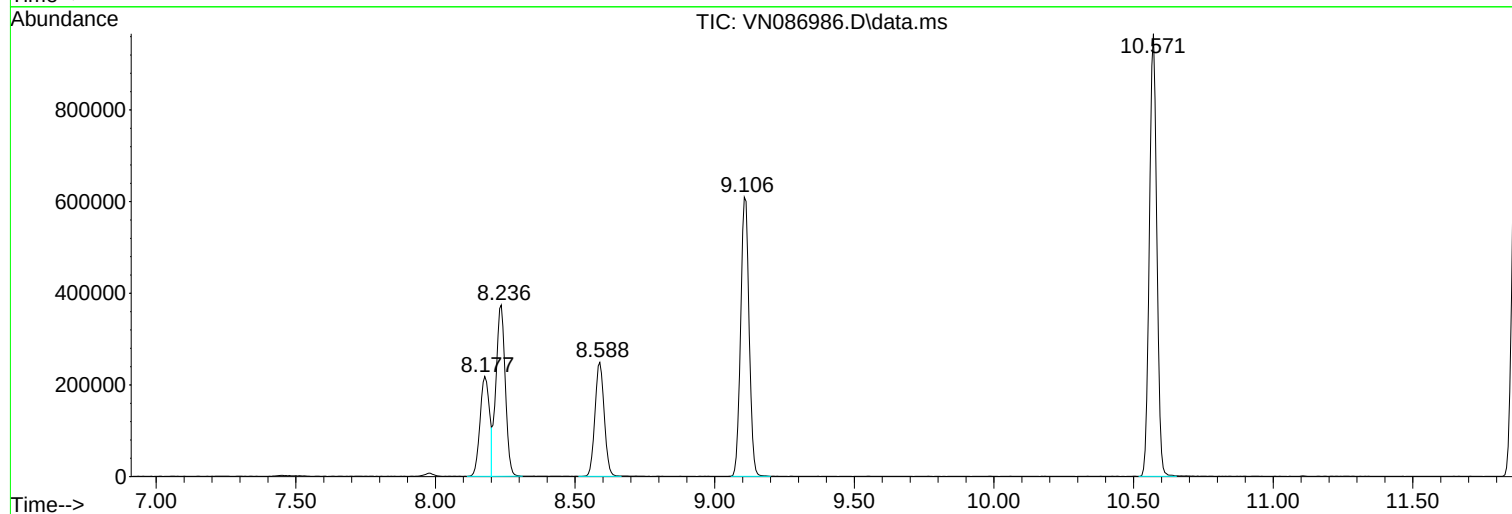
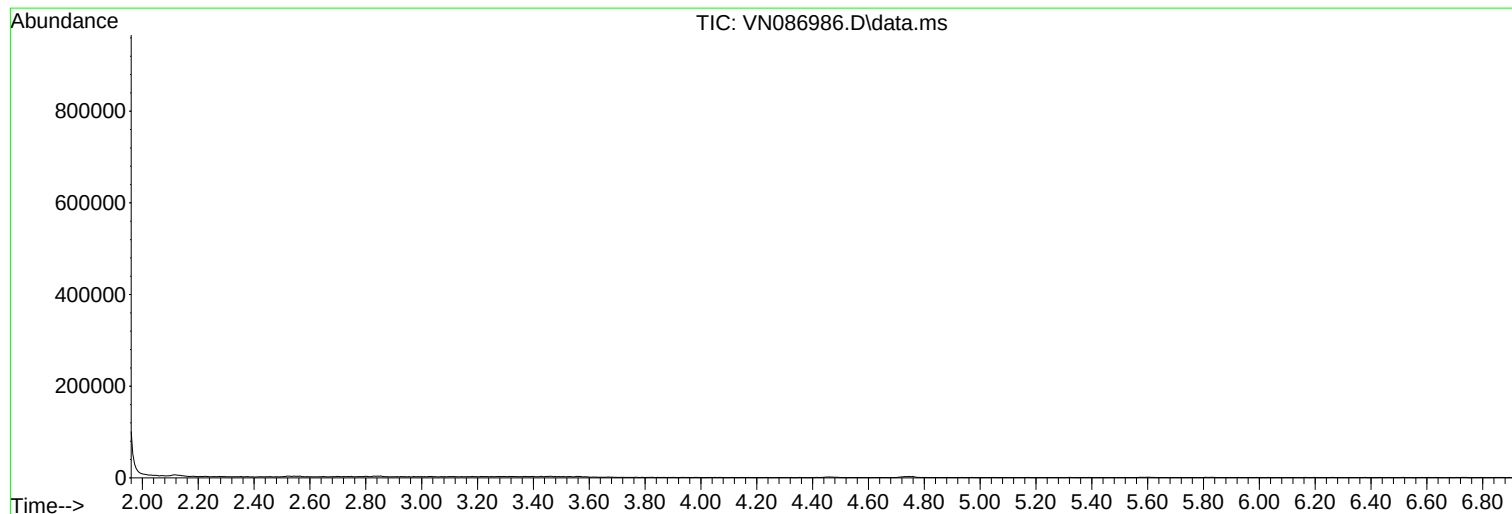
Sum of corrected areas: 9039244

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086986.D
Acq On : 12 Jun 2025 18:33
Operator : JC\MD
Sample : Q2268-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086986.D
Acq On : 12 Jun 2025 18:33
Operator : JC\MD
Sample : Q2268-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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\VN061225\
Data File : VN086986.D
Acq On : 12 Jun 2025 18:33
Operator : JC\MD
Sample : Q2268-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-4-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-5-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-02	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086987.D	1		06/12/25 18:56	VN061225

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	4.40	J	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	5.30		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	1.80	J	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	UQ	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.92	J	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	UQ	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:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-5-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-02			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086987.D	1		06/12/25 18:56	VN061225

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-5-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-02			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086987.D	1		06/12/25 18:56	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
135-98-8	sec-Butylbenzene	0.25	J		13.6	ug/L
000135-01-3	Benzene, 1,2-diethyl-	6.10	J		13.9	ug/L
000824-90-8	1-Phenyl-1-butene	5.40	J		14.4	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\VN061225\
 Data File : VN086987.D
 Acq On : 12 Jun 2025 18:56
 Operator : JC\MD
 Sample : Q2268-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-5-20250605

Quant Time: Jun 13 02:54:15 2025
 Quant Title :
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

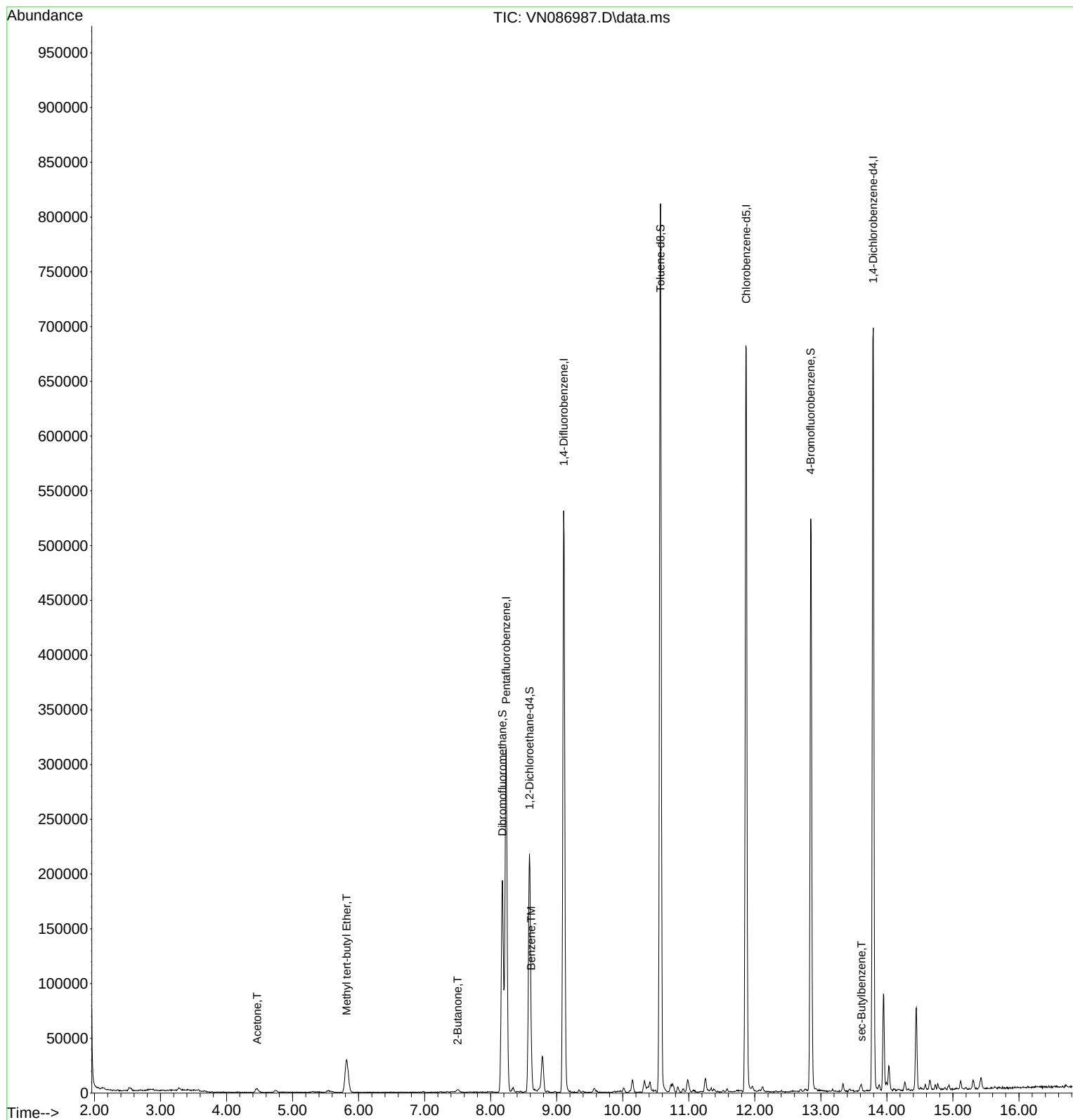
Internal Standards						
1) Pentafluorobenzene	8.235	168	244434	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	483373	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	434597	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	206986	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	178049	54.404	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	108.800%
35) Dibromofluoromethane	8.177	113	149029	52.025	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.040%
50) Toluene-d8	10.571	98	593715	52.355	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.720%
62) 4-Bromofluorobenzene	12.847	95	210546	49.973	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.940%
Target Compounds						
					Qvalue	
16) Acetone	4.465	43	7697	4.435	ug/l #	87
19) Methyl tert-butyl Ether	5.818	73	52132	5.292	ug/l	91
25) 2-Butanone	7.500	43	4941	1.751	ug/l	95
40) Benzene	8.612	78	12784	0.916	ug/l	92
85) sec-Butylbenzene	13.617	105	4201	0.254	ug/l	80

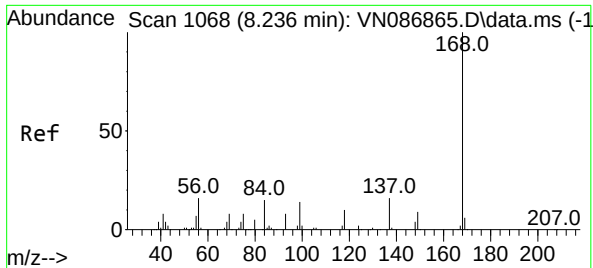
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086987.D
Acq On : 12 Jun 2025 18:56
Operator : JC\MD
Sample : Q2268-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

Quant Time: Jun 13 02:54:15 2025
Quant Title :
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

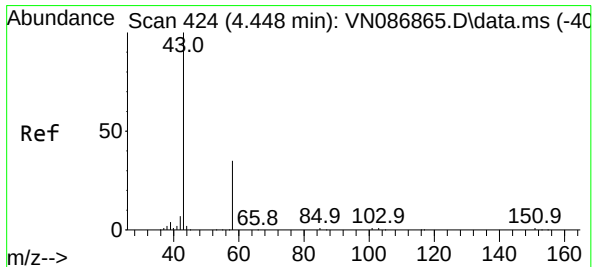
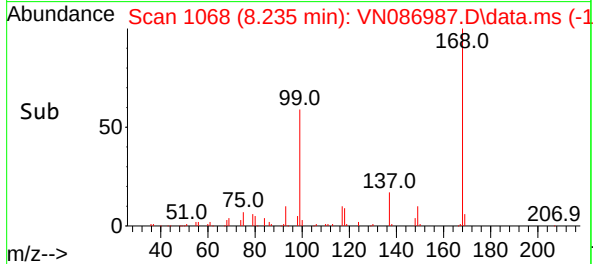
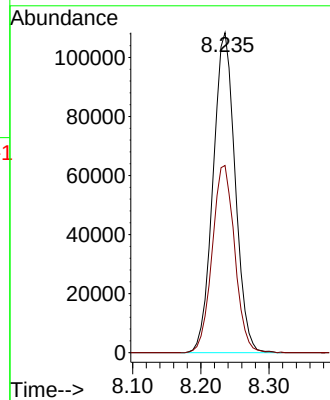
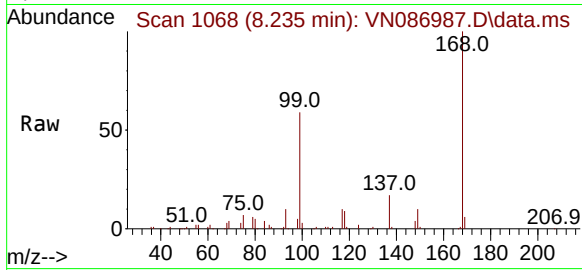




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

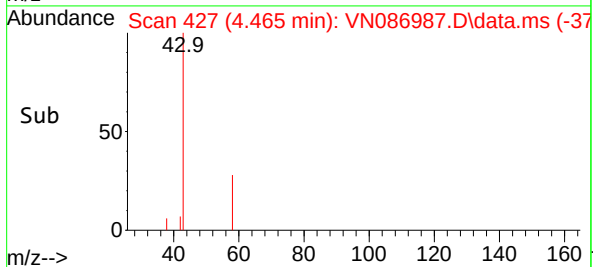
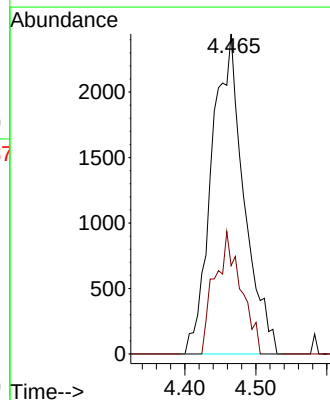
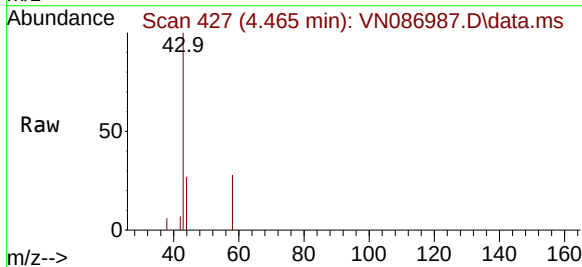
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

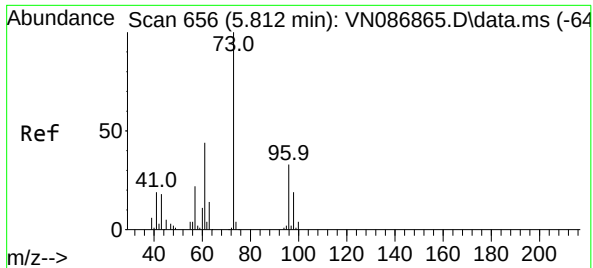
Tgt Ion:168 Resp: 244434
Ion Ratio Lower Upper
168 100
99 58.5 49.1 73.7



#16
Acetone
Concen: 4.435 ug/l
RT: 4.465 min Scan# 427
Delta R.T. 0.017 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 43 Resp: 7697
Ion Ratio Lower Upper
43 100
58 27.6 28.0 42.0#





#19

Methyl tert-butyl Ether

Concen: 5.292 ug/l

RT: 5.818 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

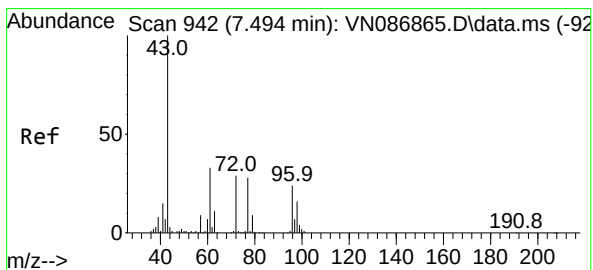
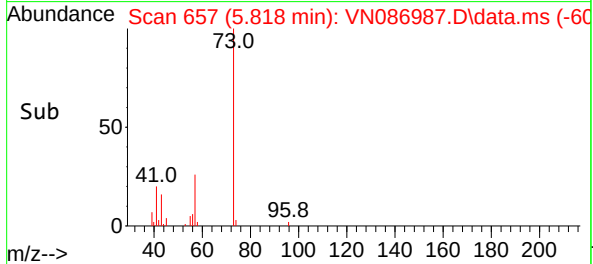
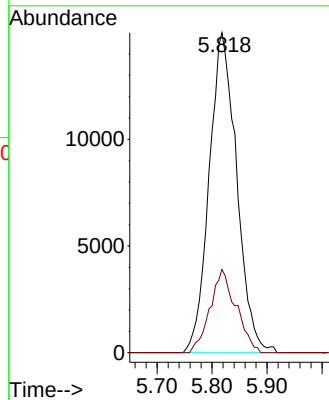
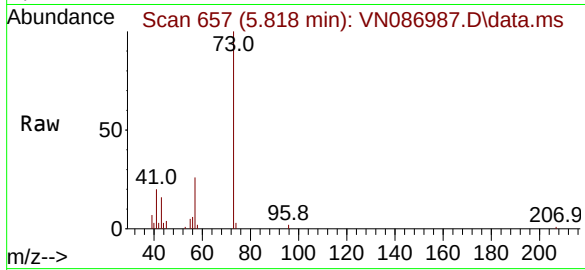
MW-5-20250605

Tgt Ion: 73 Resp: 52132

Ion Ratio Lower Upper

73 100

57 26.0 17.4 26.2



#25

2-Butanone

Concen: 1.751 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.006 min

Lab File: VN086987.D

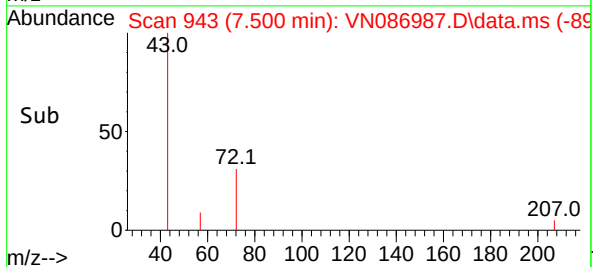
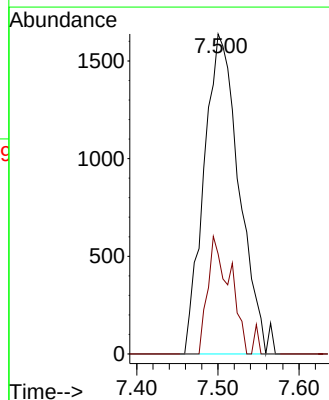
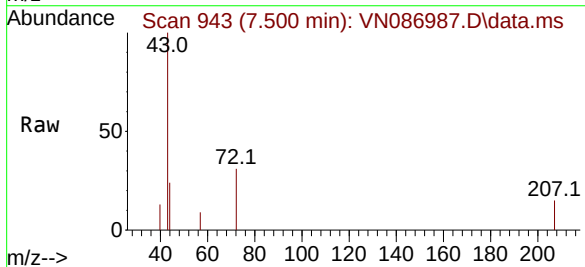
Acq: 12 Jun 2025 18:56

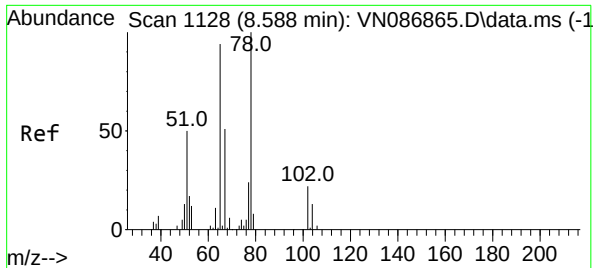
Tgt Ion: 43 Resp: 4941

Ion Ratio Lower Upper

43 100

72 31.3 23.0 34.6





#33

1,2-Dichloroethane-d4

Concen: 54.404 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

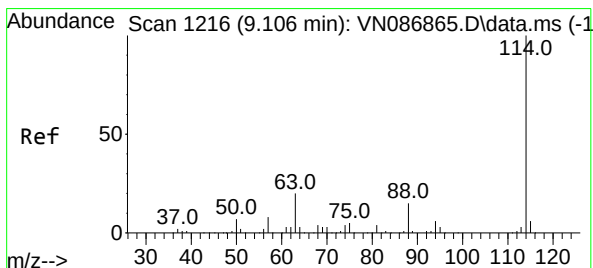
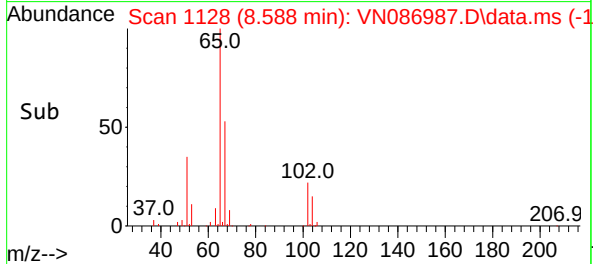
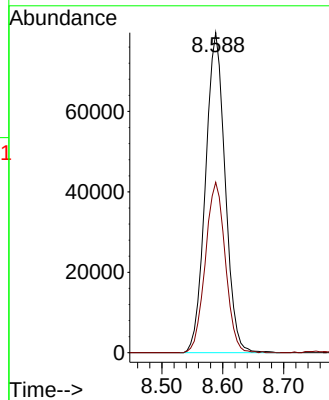
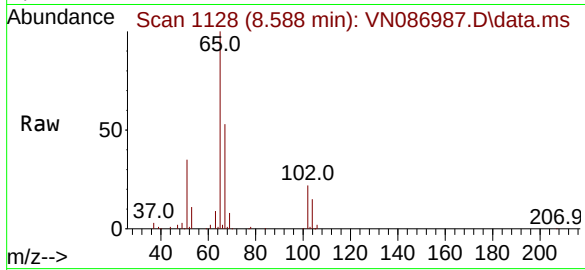
MW-5-20250605

Tgt Ion: 65 Resp: 178049

Ion Ratio Lower Upper

65 100

67 54.2 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

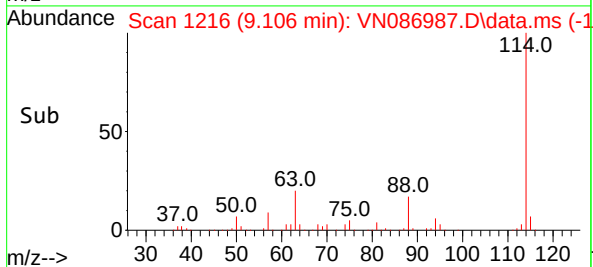
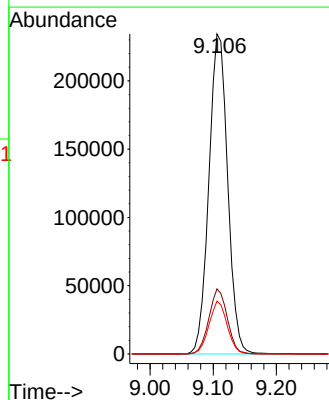
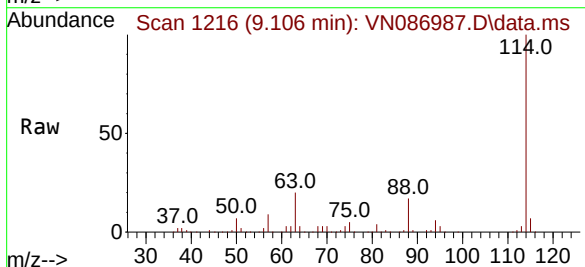
Tgt Ion: 114 Resp: 483373

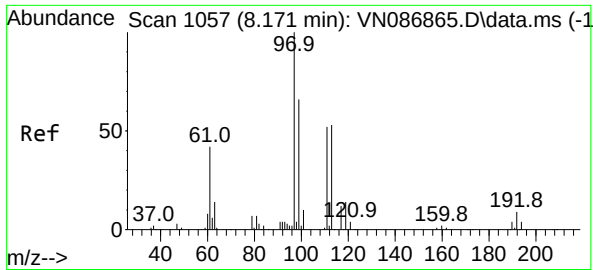
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 16.5 0.0 30.2





#35

Dibromofluoromethane

Concen: 52.025 ug/l

RT: 8.177 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

MW-5-20250605

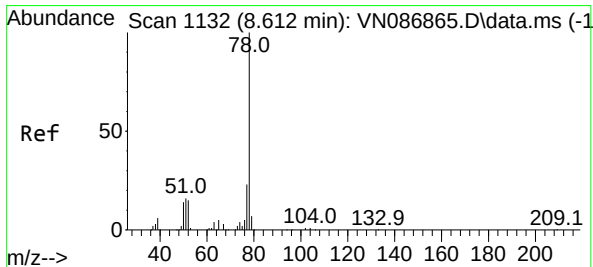
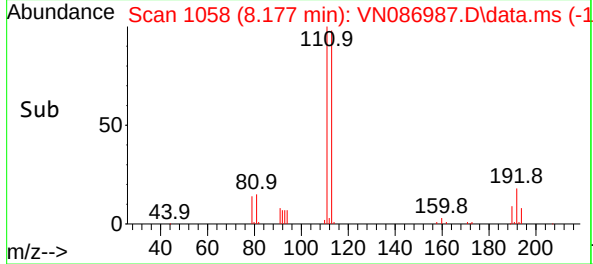
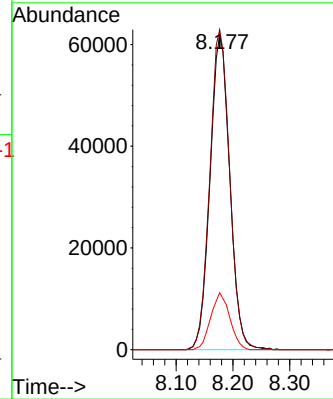
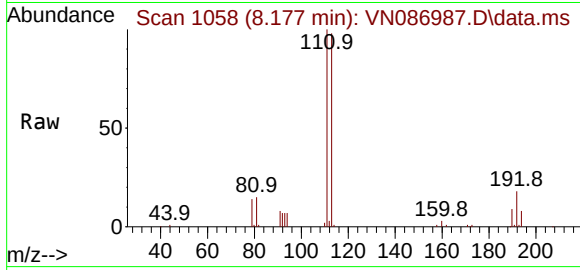
Tgt Ion:113 Resp: 149029

Ion Ratio Lower Upper

113 100

111 102.4 84.2 126.2

192 17.5 14.2 21.4



#40

Benzene

Concen: 0.916 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086987.D

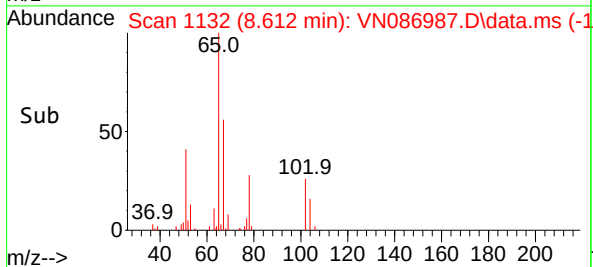
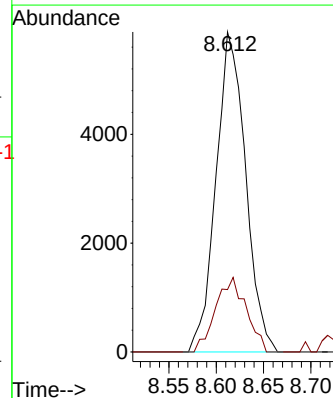
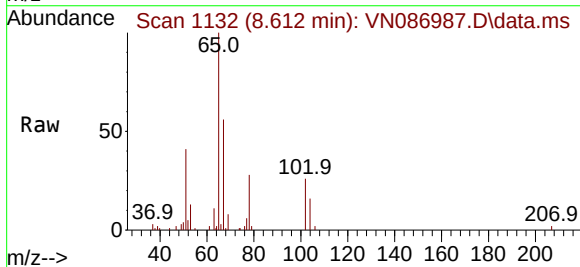
Acq: 12 Jun 2025 18:56

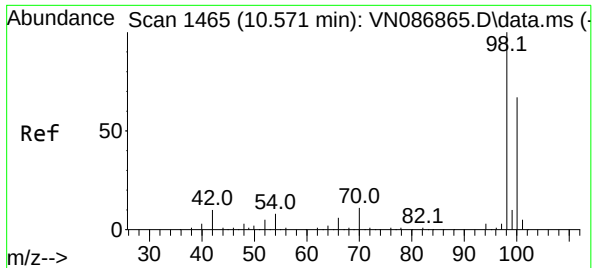
Tgt Ion: 78 Resp: 12784

Ion Ratio Lower Upper

78 100

77 19.5 18.7 28.1

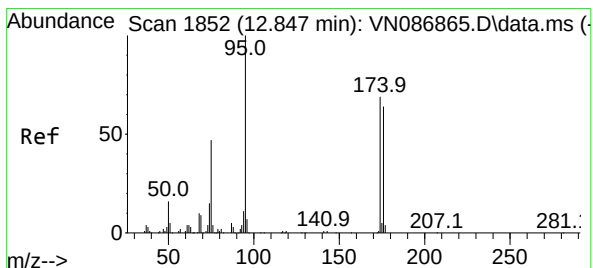
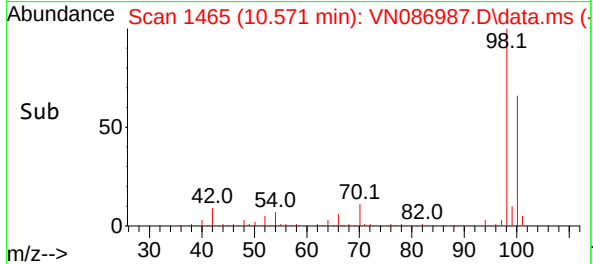
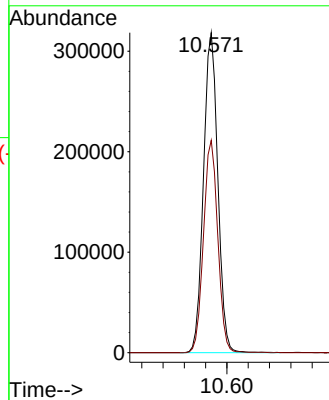
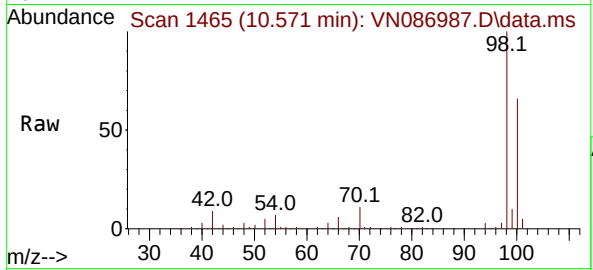




#50
Toluene-d8
Concen: 52.355 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

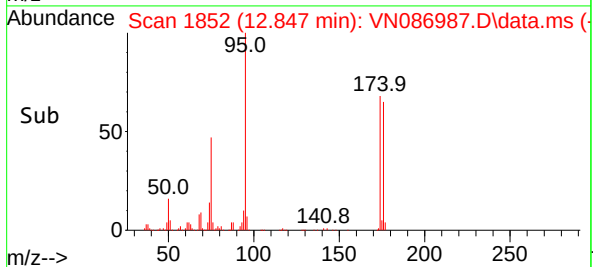
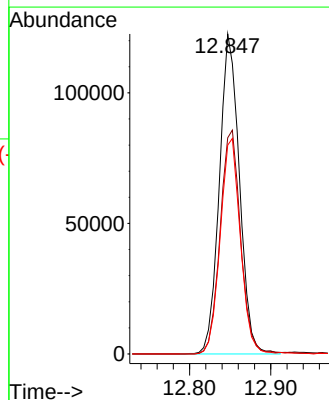
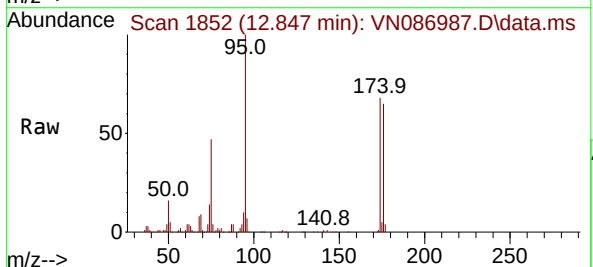
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

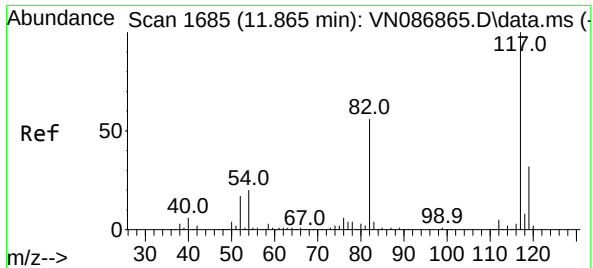
Tgt Ion: 98 Resp: 593715
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.973 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 95 Resp: 210546
Ion Ratio Lower Upper
95 100
174 71.9 0.0 141.8
176 68.2 0.0 132.6

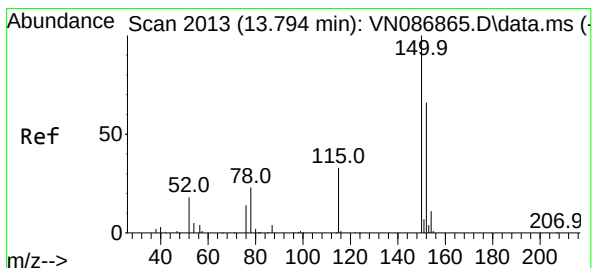
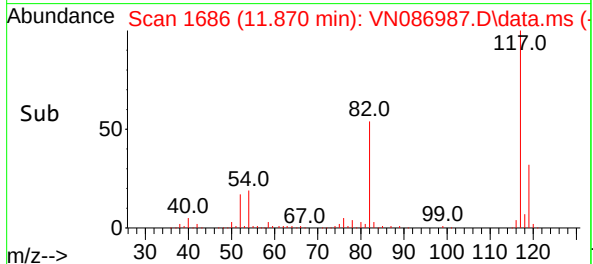
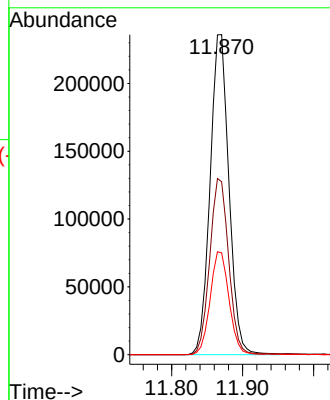
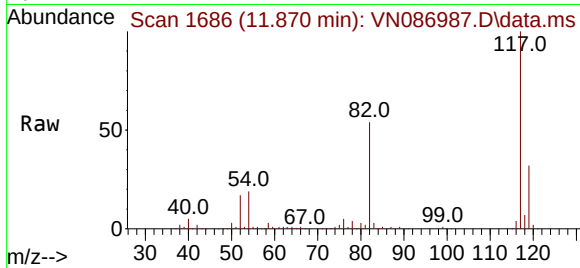




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

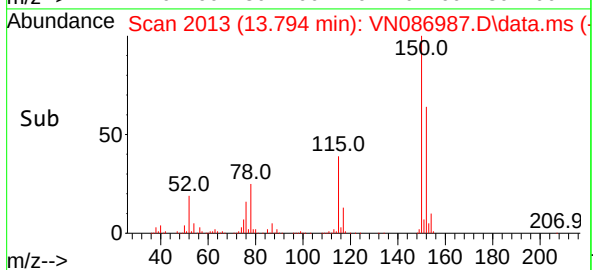
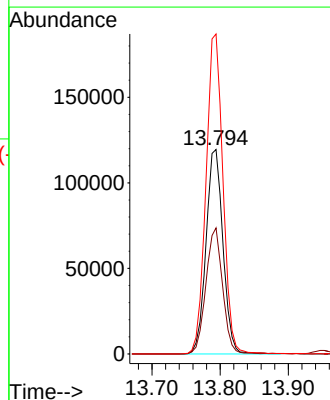
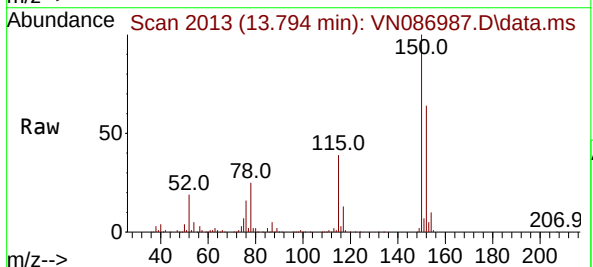
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

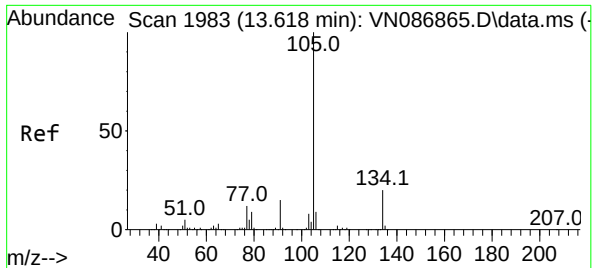
Tgt Ion:117 Resp: 434597
Ion Ratio Lower Upper
117 100
82 54.0 44.6 67.0
119 31.8 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion:152 Resp: 206986
Ion Ratio Lower Upper
152 100
115 60.7 30.1 90.5
150 156.6 0.0 345.0





#85

sec-Butylbenzene

Concen: 0.254 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN086987.D

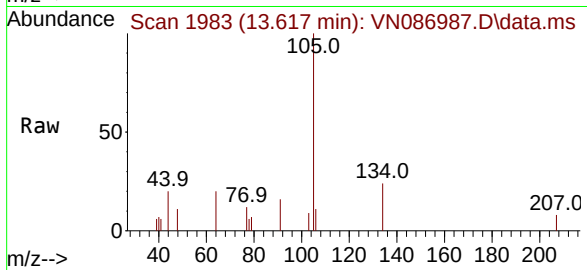
Acq: 12 Jun 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

MW-5-20250605

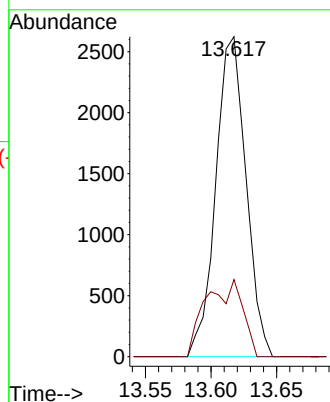
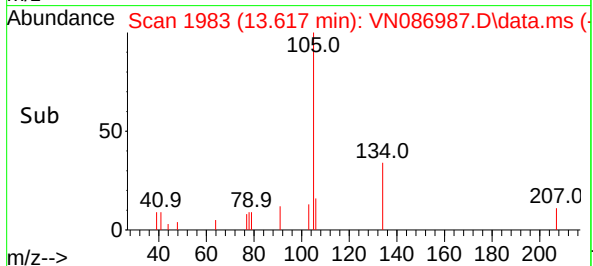


Tgt Ion:105 Resp: 4201

Ion Ratio Lower Upper

105 100

134 29.3 10.0 30.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086987.D
 Acq On : 12 Jun 2025 18:56
 Operator : JC\MD
 Sample : Q2268-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-5-20250605

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086987.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.818	645	657	671	rBV	29823	105938	6.95%	1.271%
2	8.177	1048	1058	1062	rBV	193368	448236	29.41%	5.380%
3	8.235	1062	1068	1080	rVV	313927	726239	47.66%	8.716%
4	8.588	1119	1128	1140	rBV	217515	517089	33.93%	6.206%
5	8.782	1148	1161	1171	rVB5	32468	85356	5.60%	1.024%
6	9.106	1206	1216	1230	rBV	531334	1087956	71.40%	13.058%
7	10.147	1381	1393	1399	rVB4	11531	25045	1.64%	0.301%
8	10.329	1416	1424	1429	rBV3	10742	23904	1.57%	0.287%
9	10.571	1456	1465	1483	rBV	811432	1523841	100.00%	18.289%
10	10.982	1529	1535	1543	rVB3	11063	24105	1.58%	0.289%
11	11.253	1576	1581	1586	rBV3	11820	23061	1.51%	0.277%
12	11.865	1676	1685	1697	rBV	681673	1265048	83.02%	15.183%
13	12.847	1845	1852	1864	rBV	521939	912545	59.88%	10.953%
14	13.794	2004	2013	2024	rBV	696689	1205603	79.12%	14.470%
15	13.947	2034	2039	2045	rVV	87922	147893	9.71%	1.775%
16	14.029	2049	2053	2062	rVB	22522	40784	2.68%	0.489%
17	14.447	2114	2124	2131	rBV	75373	130333	8.55%	1.564%
18	15.306	2264	2270	2277	rVB3	8234	15429	1.01%	0.185%
19	15.423	2282	2290	2298	rBV5	10397	23420	1.54%	0.281%

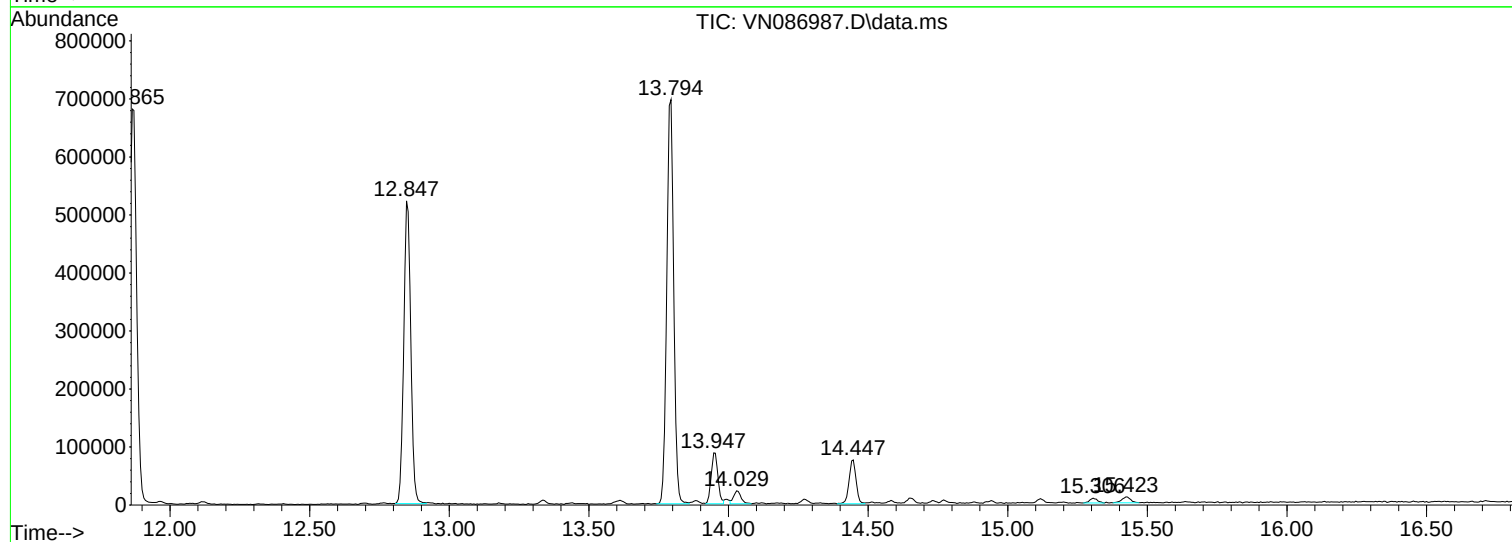
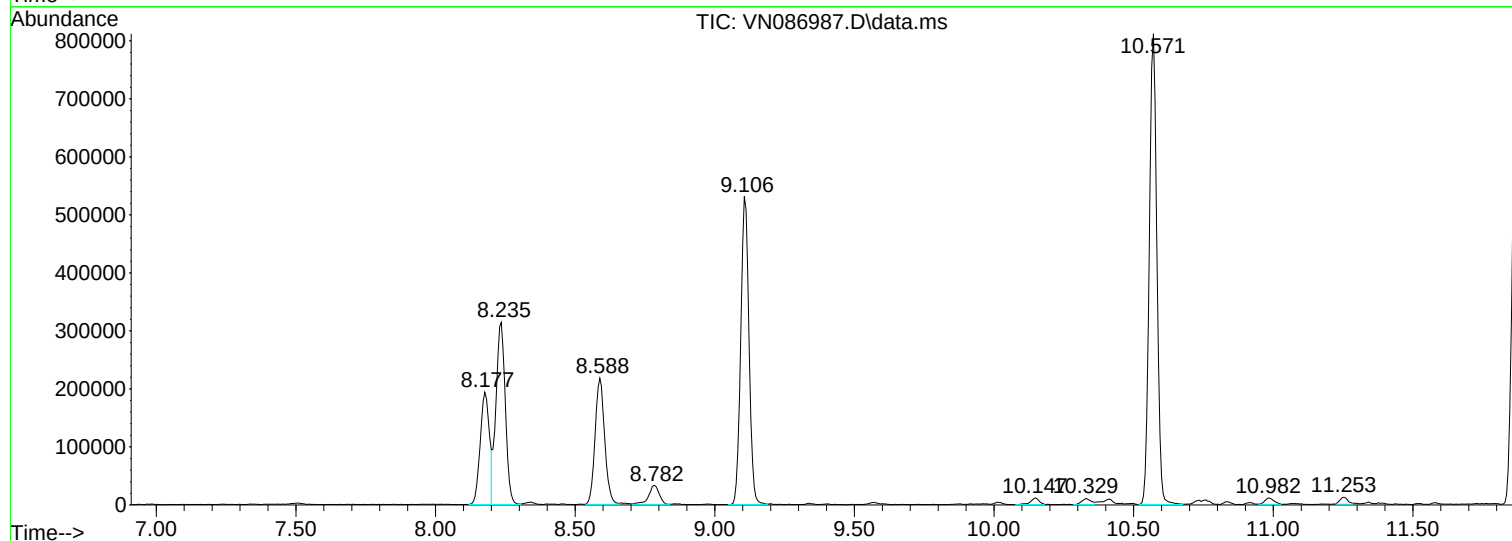
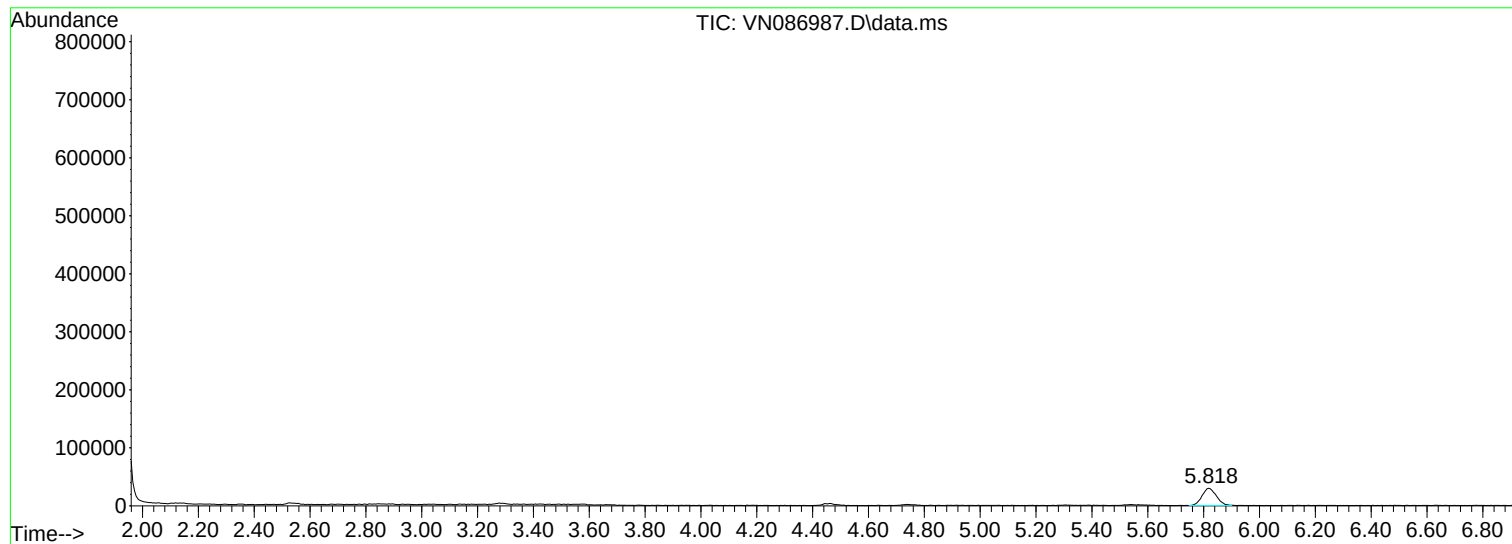
Sum of corrected areas: 8331825

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086987.D
Acq On : 12 Jun 2025 18:56
Operator : JC\MD
Sample : Q2268-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

Quant Title :

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086987.D
Acq On : 12 Jun 2025 18:56
Operator : JC\MD
Sample : Q2268-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

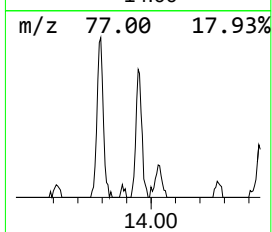
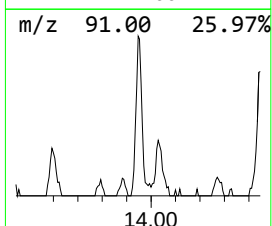
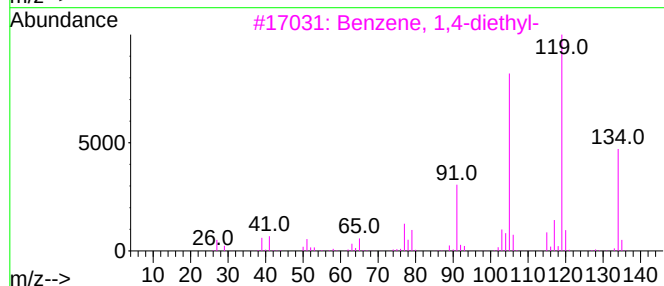
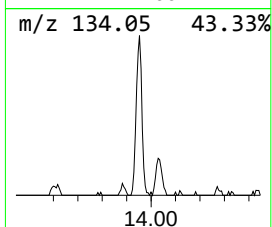
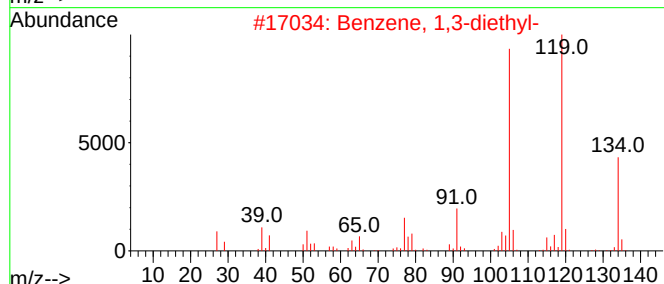
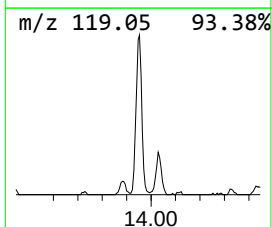
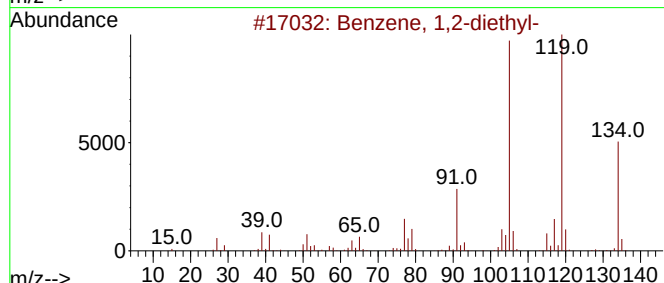
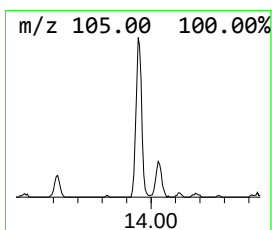
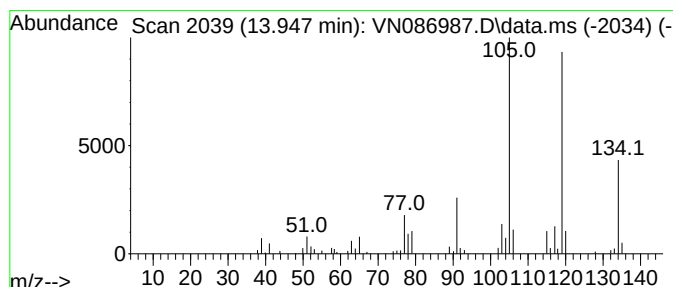
Quant Title :

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

Peak Number 1 Benzene, 1,2-diethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.947	6.13 ug/l	147893	1,4-Dichlorobenzene-d4	13.794

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	96
2		Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	96
3		Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	95
4		Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
5		Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086987.D
Acq On : 12 Jun 2025 18:56
Operator : JC\MD
Sample : Q2268-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

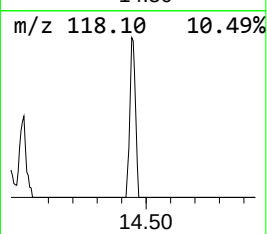
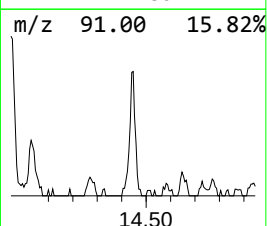
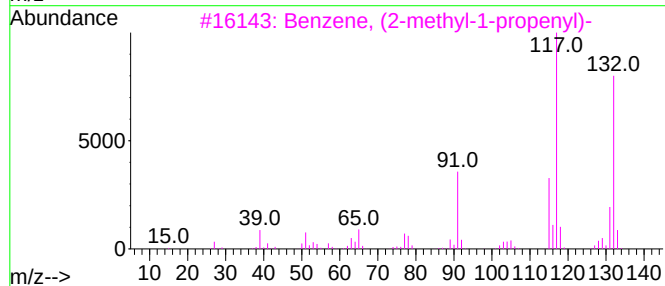
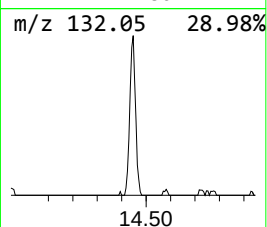
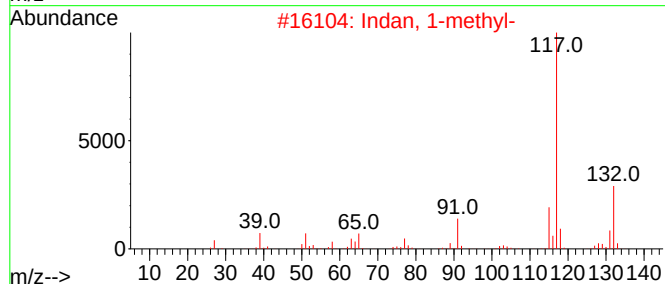
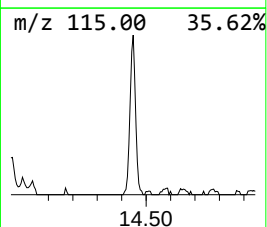
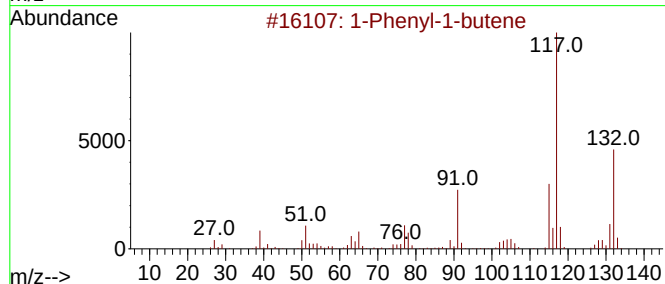
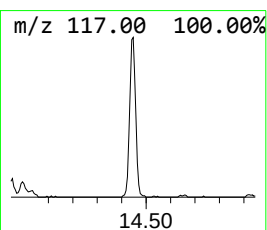
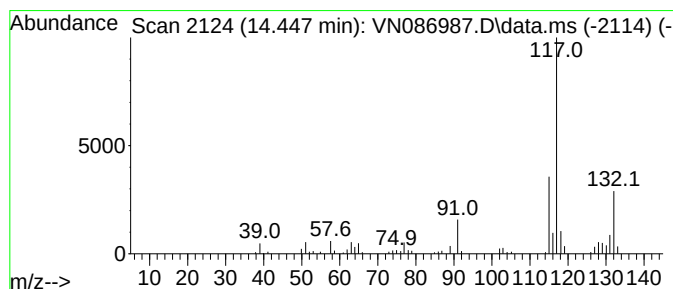
Quant Title :

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

Peak Number 2 1-Phenyl-1-butene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.447	5.41 ug/l	130333	1,4-Dichlorobenzene-d4	13.794

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Phenyl-1-butene	132	C10H12	000824-90-8	91
2		Indan, 1-methyl-	132	C10H12	000767-58-8	90
3		Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90
4		Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
5		Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086987.D
Acq On : 12 Jun 2025 18:56
Operator : JC\MD
Sample : Q2268-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

Quant Title :

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 1,2-di...	13.947	6.1	ug/l	147893	4	13.794	1205600	50.0
1-Phenyl-1-butene	14.447	5.4	ug/l	130333	4	13.794	1205600	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-2-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-03		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086991.D	1		06/12/25 20:26	VN061225

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	38.5		1.50	5.00	ug/L
78-93-3	2-Butanone	12.1		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	UQ	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	41.1		0.16	1.00	ug/L
71-43-2	Benzene	99.8		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	UQ	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	9.20		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-2-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-03			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086991.D	1		06/12/25 20:26	VN061225

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-2-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-03			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086991.D	1		06/12/25 20:26	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000078-78-4	Butane, 2-methyl-	60.8	J		3.28	ug/L
000079-29-8	Butane, 2,3-dimethyl-	30.5	J		5.30	ug/L
000107-83-5	Pentane, 2-methyl-	110	J		5.37	ug/L
000096-14-0	Pentane, 3-methyl-	110	J		5.84	ug/L
000096-37-7	Cyclopentane, methyl-	150	J		7.34	ug/L
000565-59-3	Pentane, 2,3-dimethyl-	39.3	J		8.34	ug/L
103-65-1	n-propylbenzene	81.3	J		13.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	75.6	J		13.2	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	30.1	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	270	J		13.5	ug/L
135-98-8	sec-Butylbenzene	4.50	J		13.6	ug/L
99-87-6	p-Isopropyltoluene	1.40	J		13.7	ug/L
000496-11-7	Indane	92.5	J		14.0	ug/L
104-51-8	n-Butylbenzene	6.70	J		14.1	ug/L
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	35.9	J		15.1	ug/L
000275-51-4	Azulene	69.5	J		15.6	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086991.D
 Acq On : 12 Jun 2025 20:26
 Operator : JC\MD
 Sample : Q2268-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:35:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	259006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	488303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	432945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	195427	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	163884	47.259	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.520%		
35) Dibromofluoromethane	8.177	113	147079	50.826	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.660%		
50) Toluene-d8	10.571	98	587009	51.241	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.480%		
62) 4-Bromofluorobenzene	12.847	95	205325	48.242	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.480%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.547	59	3942	4.189	ug/l #	73
25) 2-Butanone	7.500	43	36258	12.129	ug/l	99
31) Cyclohexane	8.271	56	216667	38.522	ug/l #	87
39) Methylcyclohexane	9.606	83	242592	41.064	ug/l	94
40) Benzene	8.618	78	1406771	99.767	ug/l	100
52) Toluene	10.629	92	79431	9.218	ug/l	99
67) Ethyl Benzene	11.965	91	6151631	374.015	ug/l	99
68) m/p-Xylenes	12.076	106	3017617	479.282	ug/l	97
69) o-Xylene	12.400	106	54440	9.028	ug/l	99
73) Isopropylbenzene	12.694	105	595515	41.829	ug/l	99
78) n-propylbenzene	13.035	91	1406861	81.313	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	888246	75.567	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	3198494	271.361	ug/l	98
85) sec-Butylbenzene	13.618	105	70137m	4.489	ug/l	
86) p-Isopropyltoluene	13.729	119	17728	1.373	ug/l #	77
89) n-Butylbenzene	14.053	91	84006	6.715	ug/l #	80

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

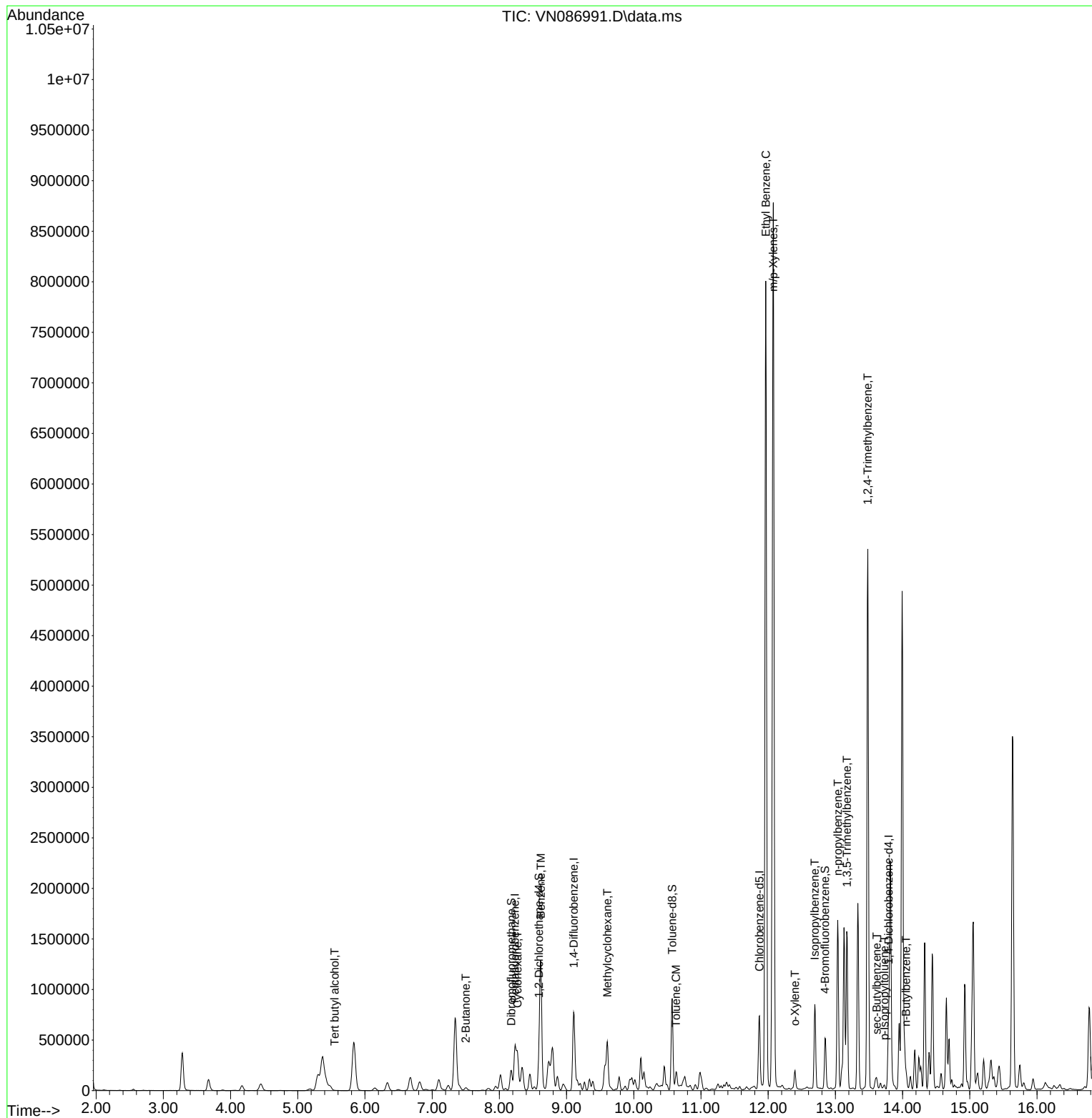
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Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

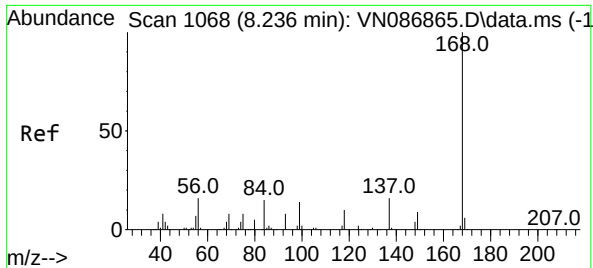
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/13/2025
Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:35:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





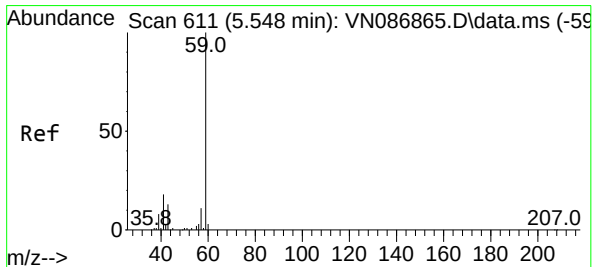
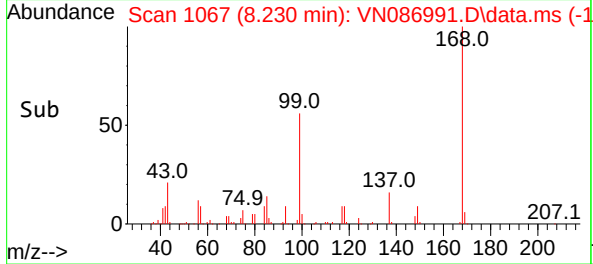
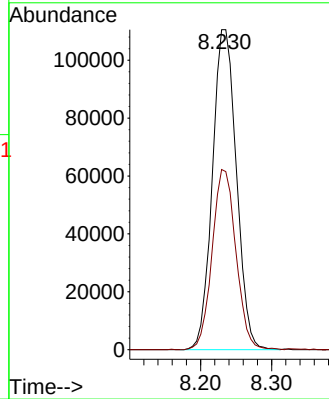
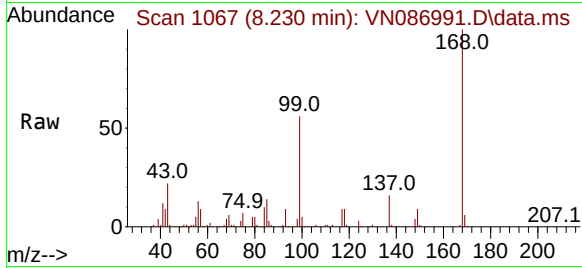
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Tgt Ion:168 Resp: 259000
Ion Ratio Lower Upper
168 100
99 56.3 49.1 73.7

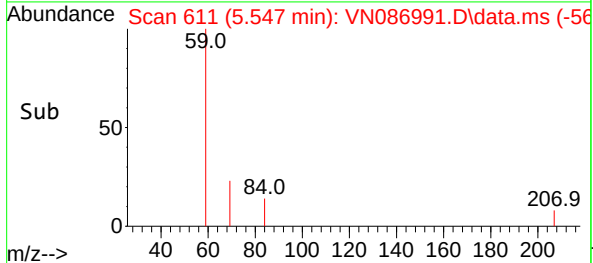
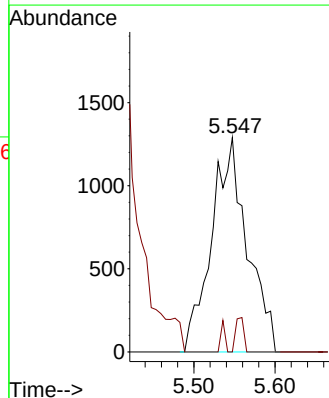
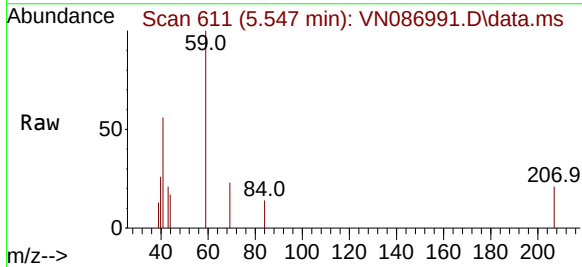
Manual Integrations
APPROVED

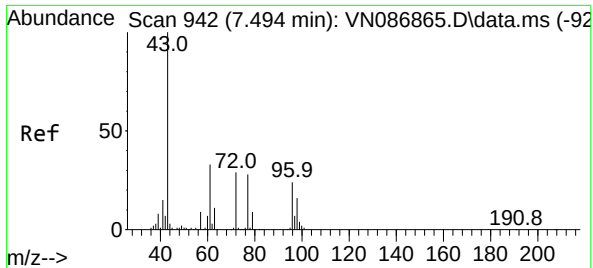
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#11
Tert butyl alcohol
Concen: 4.189 ug/l
RT: 5.547 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 59 Resp: 3942
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





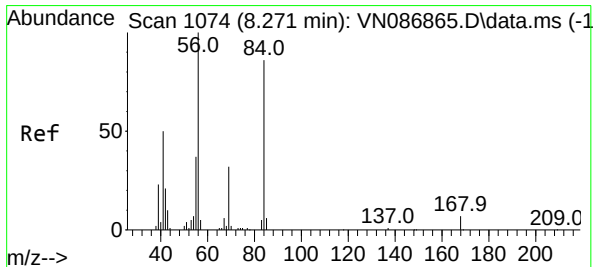
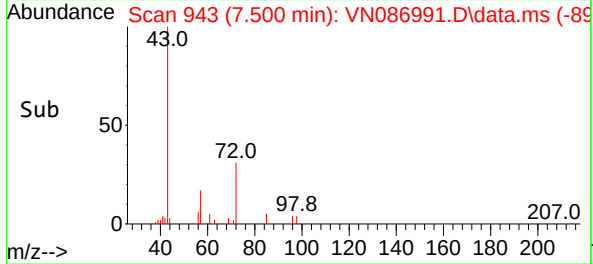
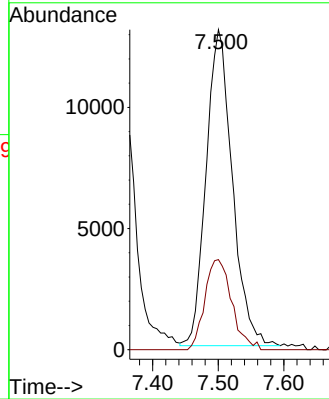
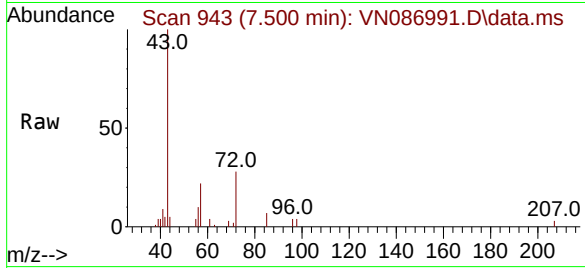
#25
2-Butanone
Concen: 12.129 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Tgt Ion: 43 Resp: 36258
Ion Ratio Lower Upper
43 100
72 28.5 23.0 34.6

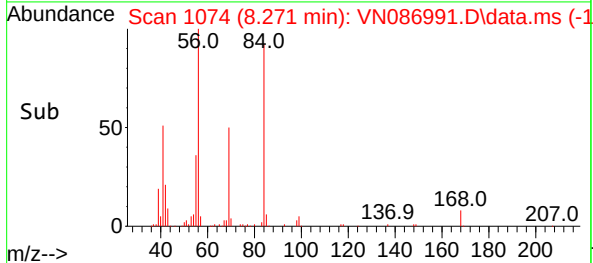
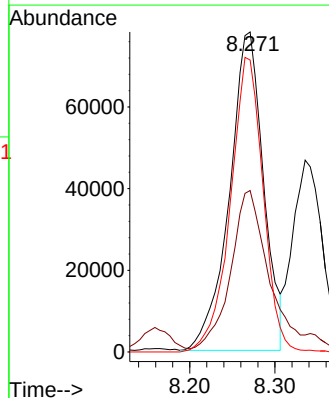
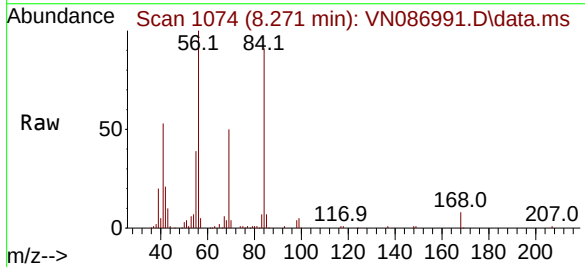
Manual Integrations
APPROVED

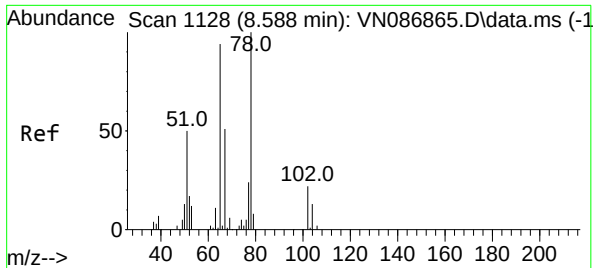
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#31
Cyclohexane
Concen: 38.522 ug/l
RT: 8.271 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 56 Resp: 216667
Ion Ratio Lower Upper
56 100
69 48.7 25.4 38.0#
84 91.7 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 47.259 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086991.D

Acq: 12 Jun 2025 20:26

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605

Tgt Ion: 65 Resp: 163884

Ion Ratio Lower Upper

65 100

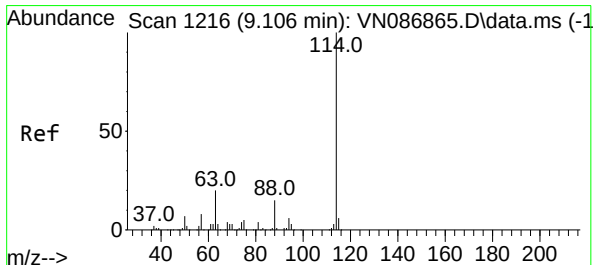
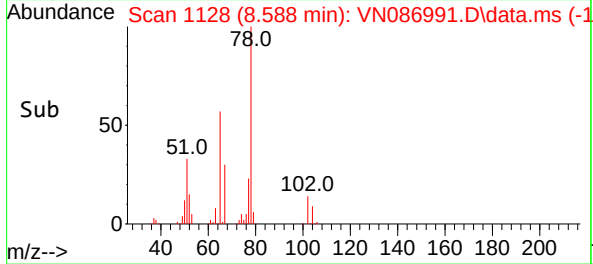
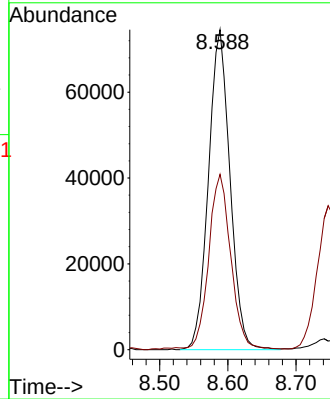
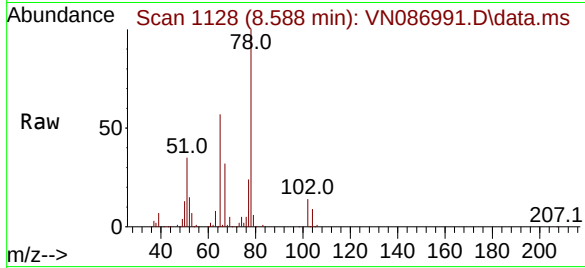
67 57.0 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086991.D

Acq: 12 Jun 2025 20:26

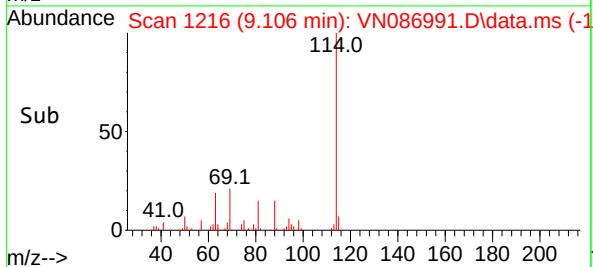
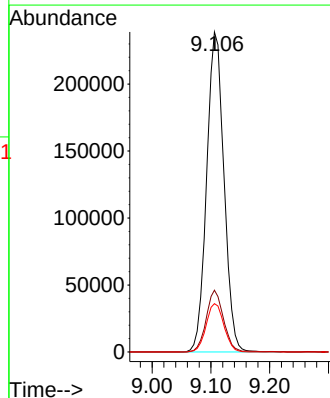
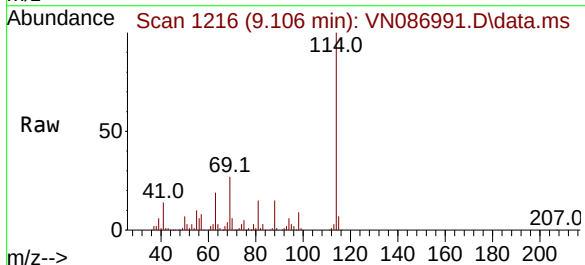
Tgt Ion:114 Resp: 488303

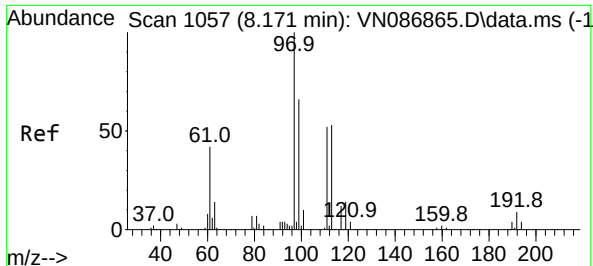
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 15.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.826 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086991.D

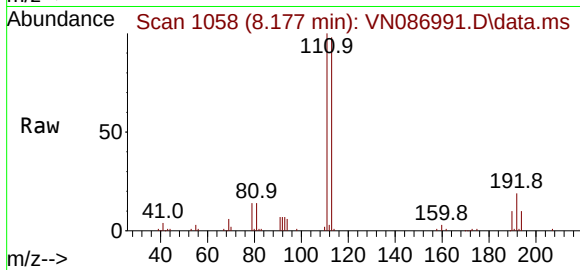
Acq: 12 Jun 2025 20:26

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605



Tgt Ion: 113 Resp: 147079

Ion Ratio Lower Upper

113 100

111 101.9 84.2 126.2

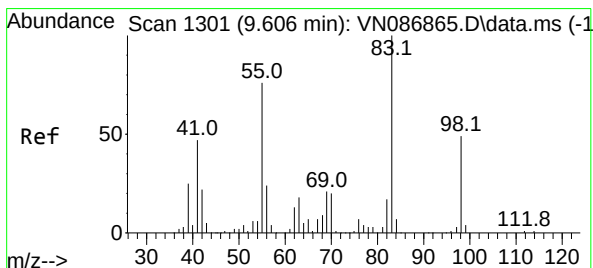
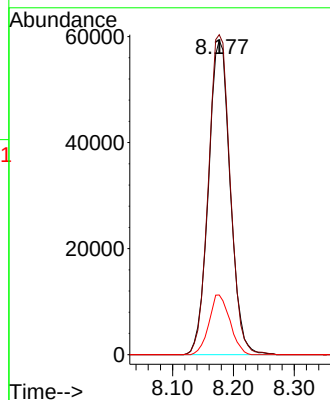
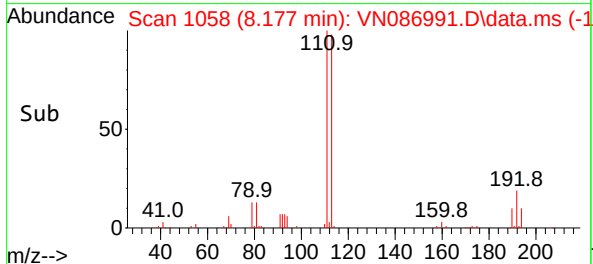
192 18.3 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#39

Methylcyclohexane

Concen: 41.064 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. -0.000 min

Lab File: VN086991.D

Acq: 12 Jun 2025 20:26

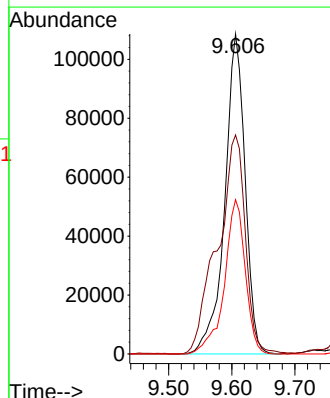
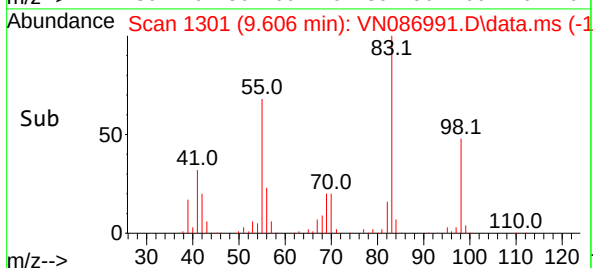
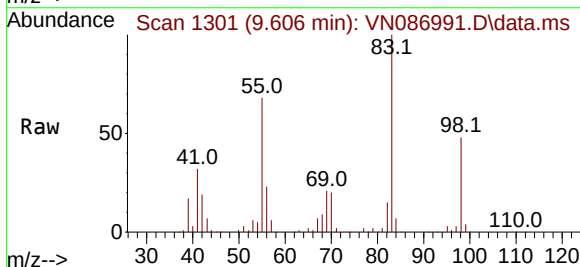
Tgt Ion: 83 Resp: 242592

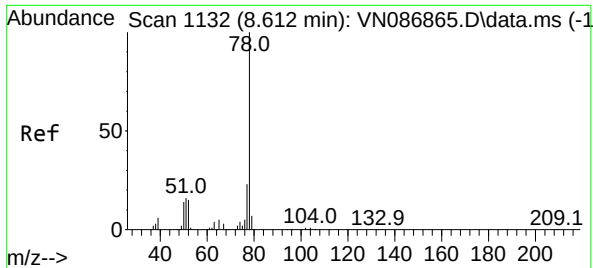
Ion Ratio Lower Upper

83 100

55 68.5 61.0 91.6

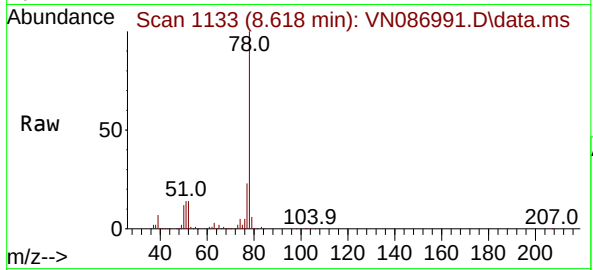
98 48.2 38.9 58.3





#40
Benzene
Concen: 99.767 ug/l
RT: 8.618 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

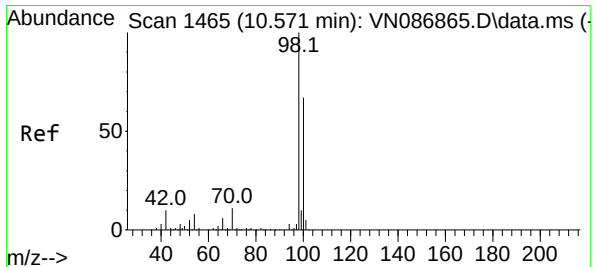
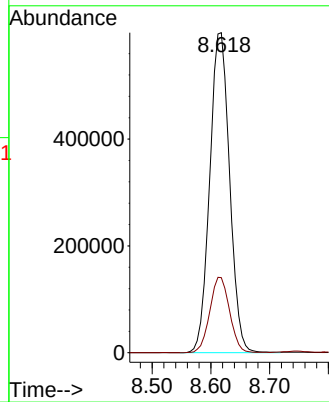
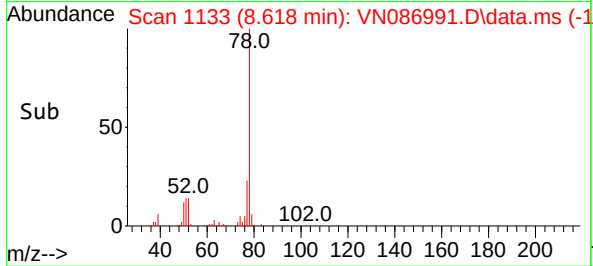
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 78 Resp: 140677
Ion Ratio Lower Upper
78 100
77 23.5 18.7 28.1

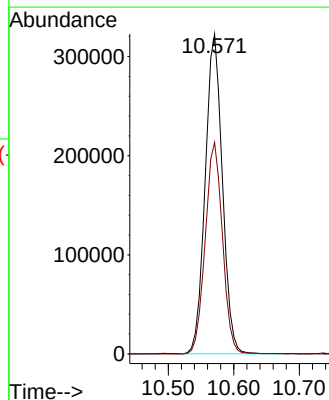
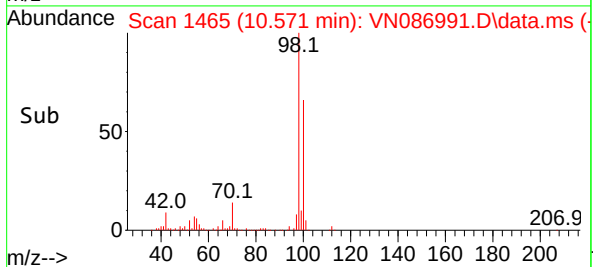
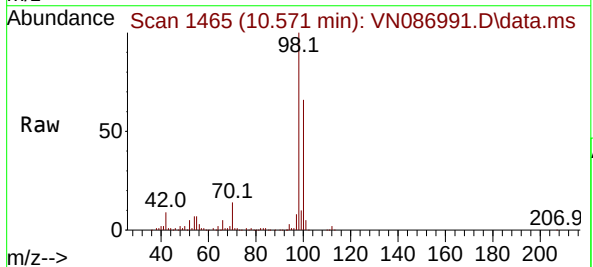
Manual Integrations
APPROVED

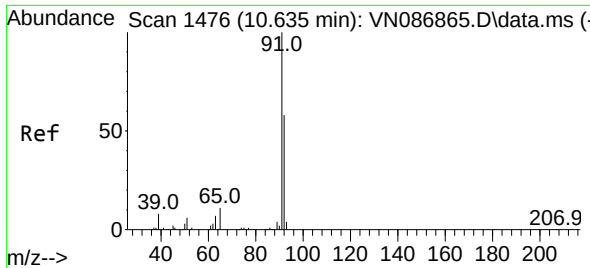
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#50
Toluene-d8
Concen: 51.241 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

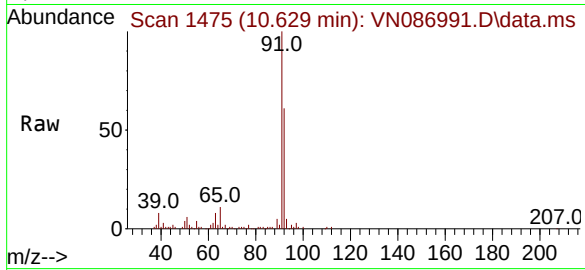
Tgt Ion: 98 Resp: 587009
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0





#52
Toluene
Concen: 9.218 ug/l
RT: 10.629 min Scan# 1476
Delta R.T. -0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

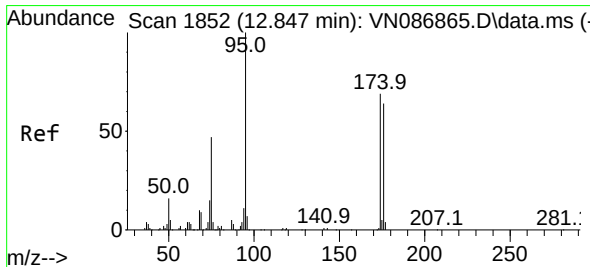
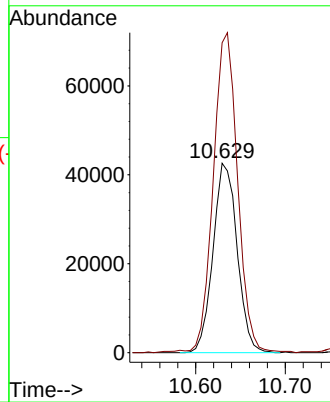
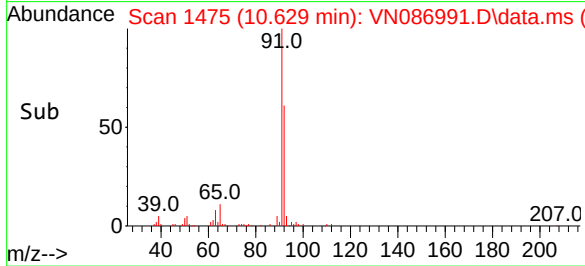
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 92 Resp: 7943
Ion Ratio Lower Upper
92 100
91 171.4 136.5 204.7

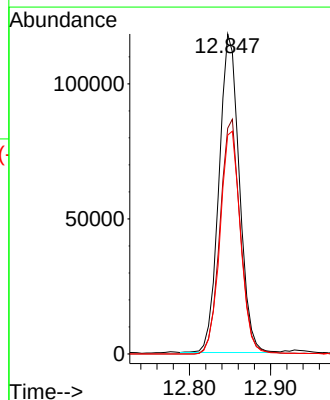
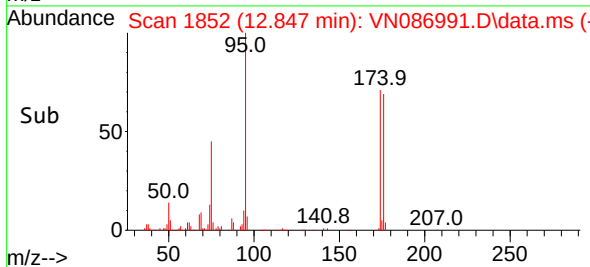
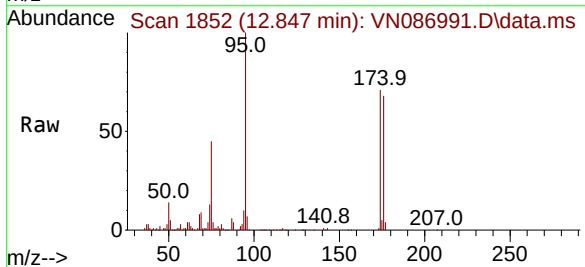
Manual Integrations
APPROVED

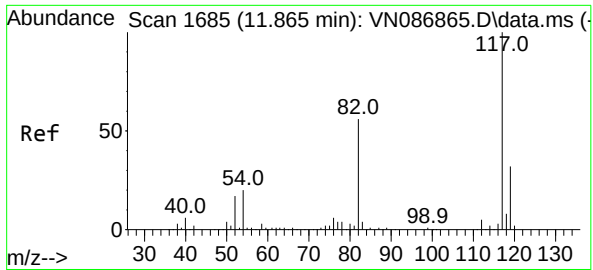
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 48.242 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

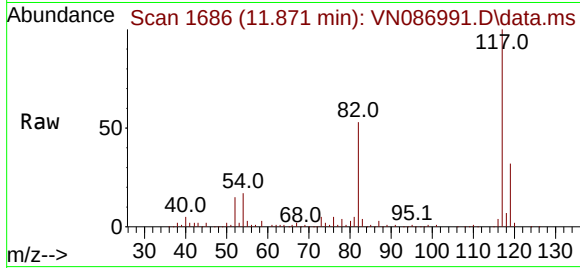
Tgt Ion: 95 Resp: 205325
Ion Ratio Lower Upper
95 100
174 74.0 0.0 141.8
176 70.6 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

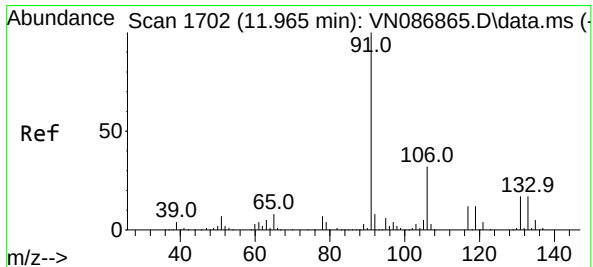
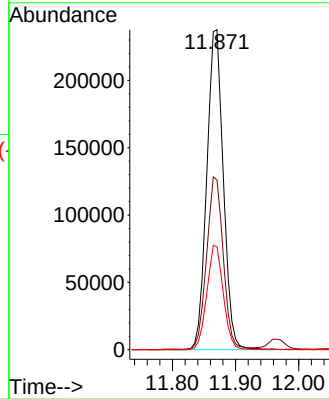
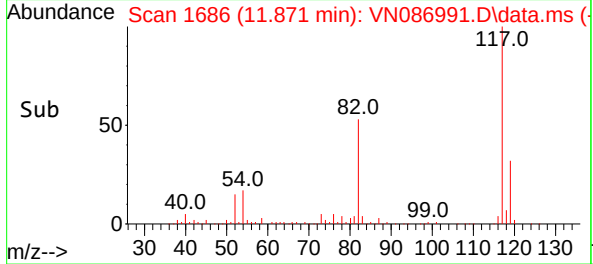
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 117 Resp: 432945
Ion Ratio Lower Upper
117 100
82 52.8 44.6 67.0
119 32.1 25.5 38.3

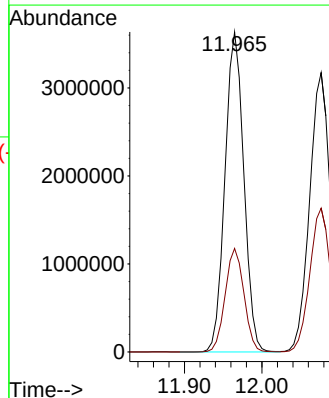
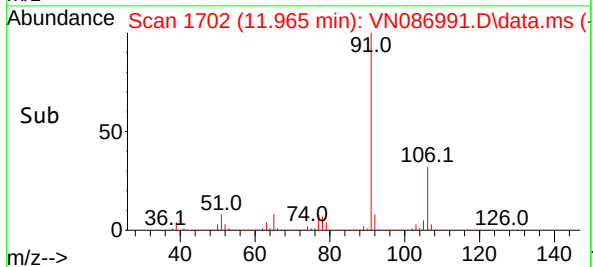
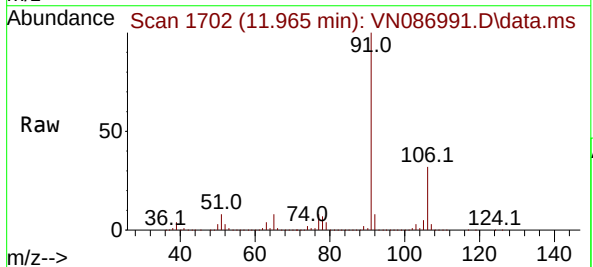
Manual Integrations
APPROVED

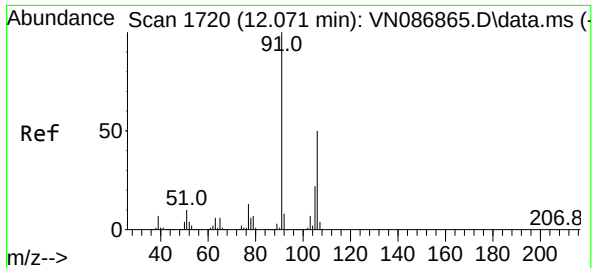
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#67
Ethyl Benzene
Concen: 374.015 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 91 Resp: 6151631
Ion Ratio Lower Upper
91 100
106 32.4 25.4 38.2





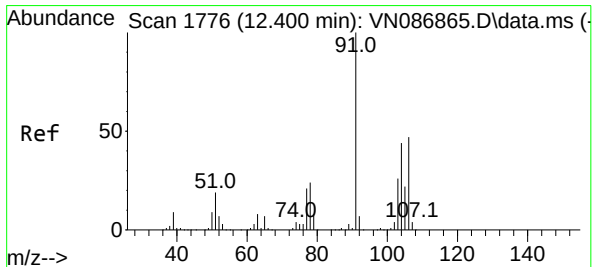
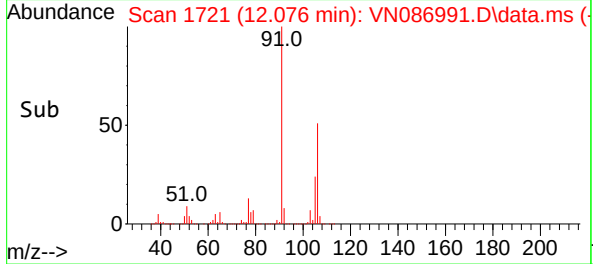
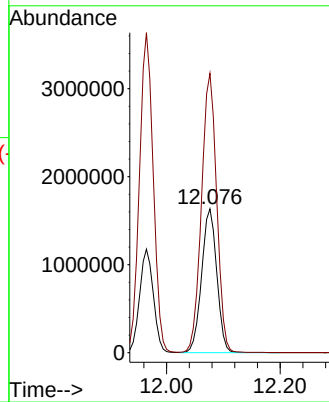
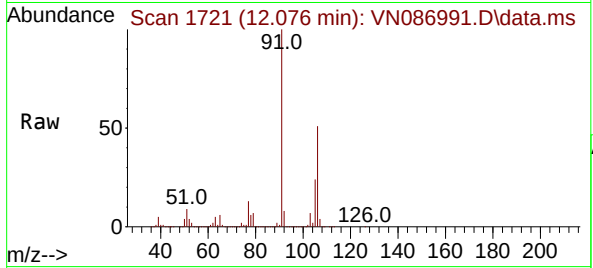
#68
m/p-Xylenes
Concen: 479.282 ug/l
RT: 12.076 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Tgt Ion:106 Resp: 301761
Ion Ratio Lower Upper
106 100
91 195.3 159.4 239.0

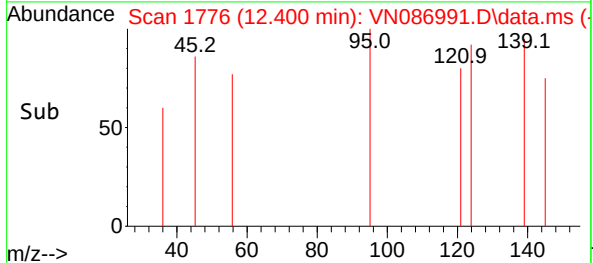
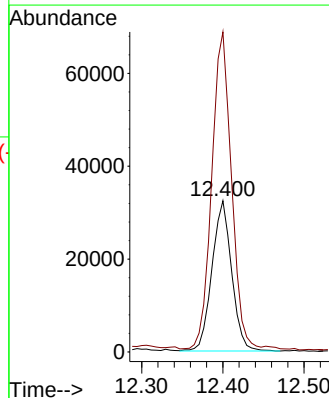
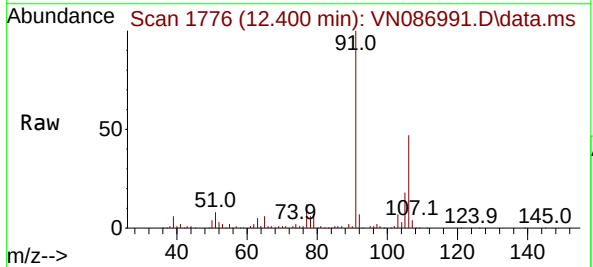
Manual Integrations
APPROVED

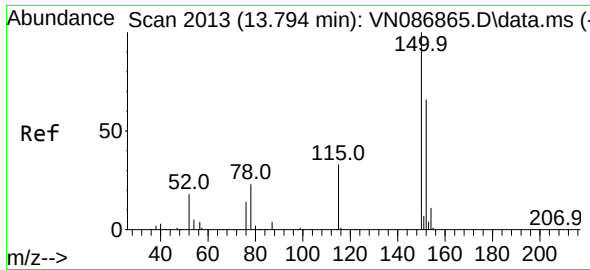
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#69
o-Xylene
Concen: 9.028 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

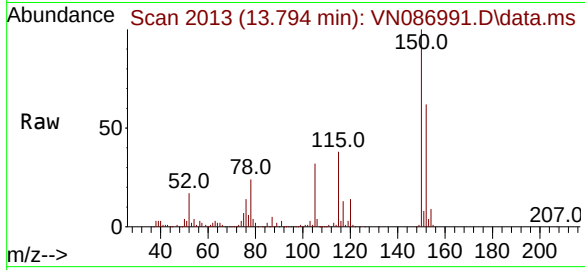
Tgt Ion:106 Resp: 54440
Ion Ratio Lower Upper
106 100
91 213.9 106.1 318.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

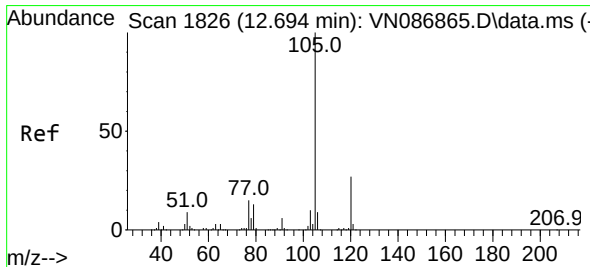
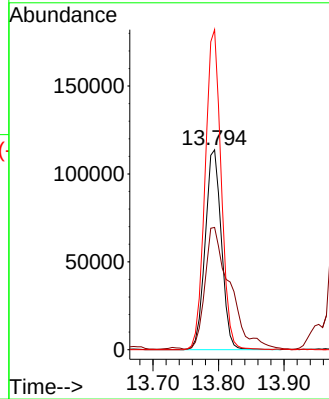
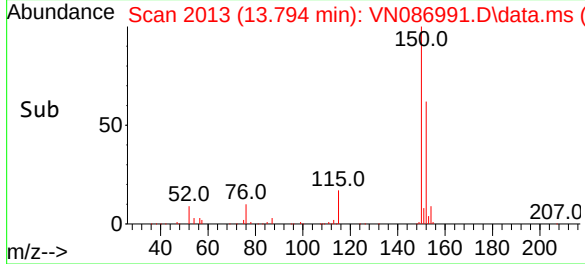
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



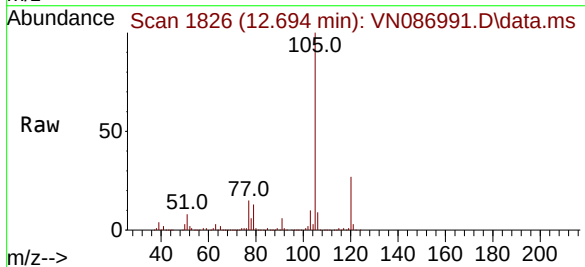
Tgt Ion:152 Resp: 19542
Ion Ratio Lower Upper
152 100
115 93.6 30.1 90.5
150 158.8 0.0 345.0

Manual Integrations
APPROVED

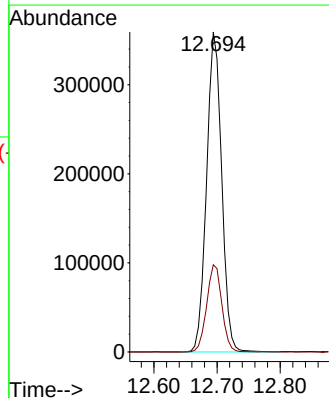
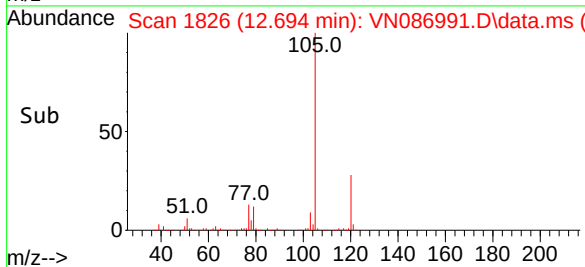
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

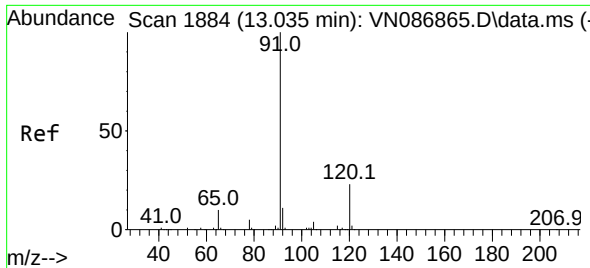


#73
Isopropylbenzene
Concen: 41.829 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26



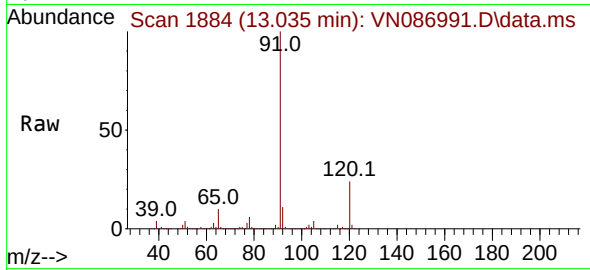
Tgt Ion:105 Resp: 595515
Ion Ratio Lower Upper
105 100
120 27.4 13.5 40.4





#78
n-propylbenzene
Concen: 81.313 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

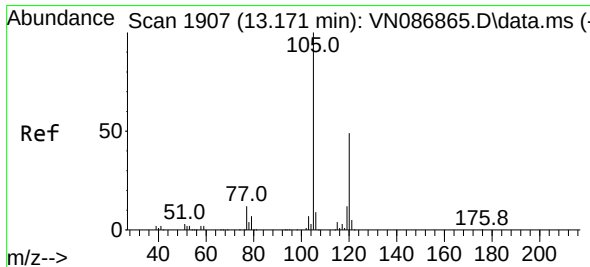
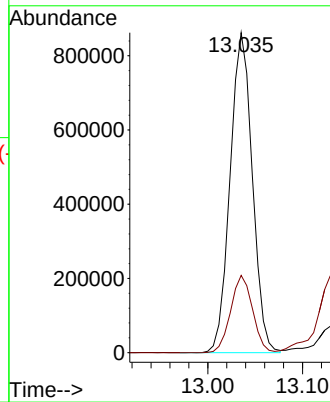
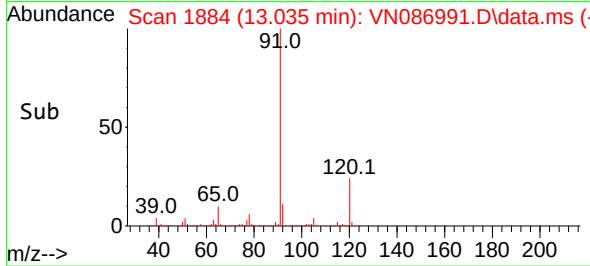
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 91 Resp: 140686
Ion Ratio Lower Upper
91 100
120 23.7 11.4 34.2

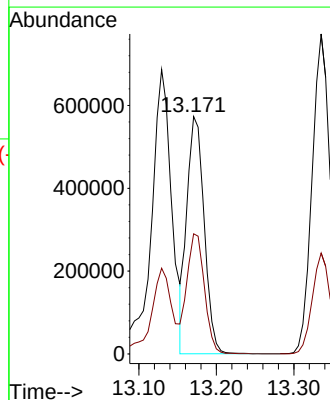
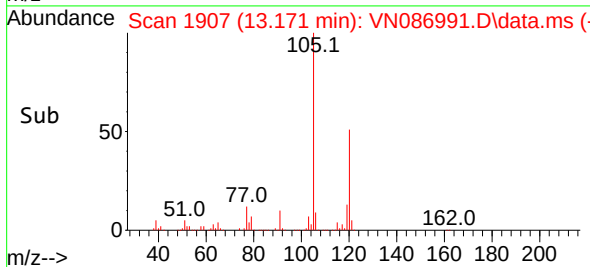
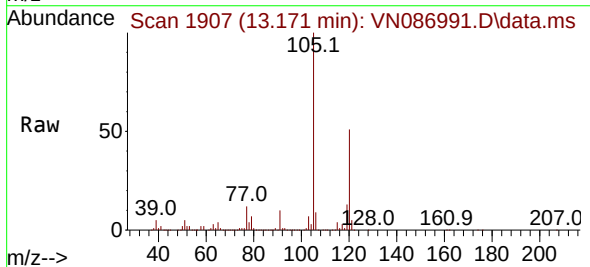
Manual Integrations
APPROVED

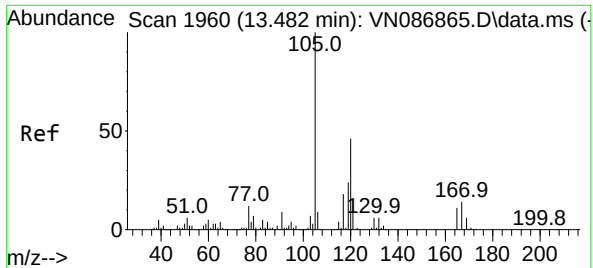
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#80
1,3,5-Trimethylbenzene
Concen: 75.567 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

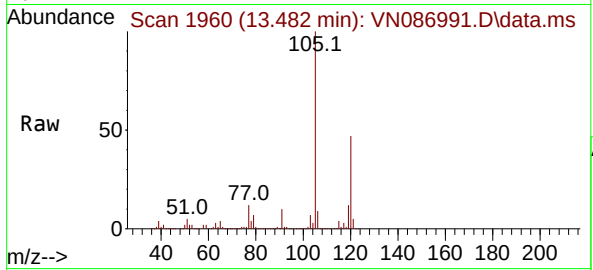
Tgt Ion:105 Resp: 888246
Ion Ratio Lower Upper
105 100
120 51.0 24.9 74.6





#84
1,2,4-Trimethylbenzene
Concen: 271.361 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

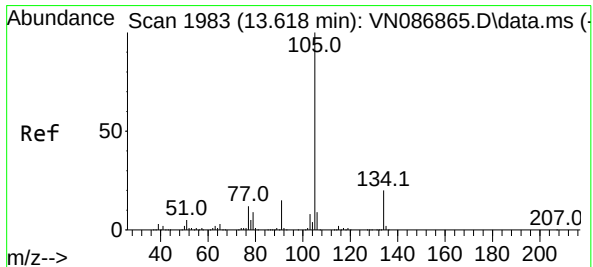
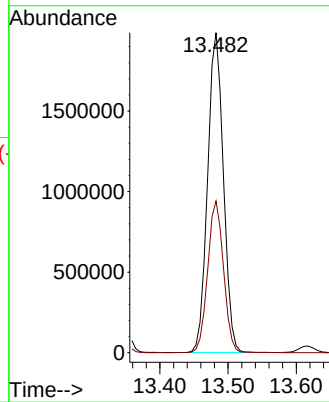
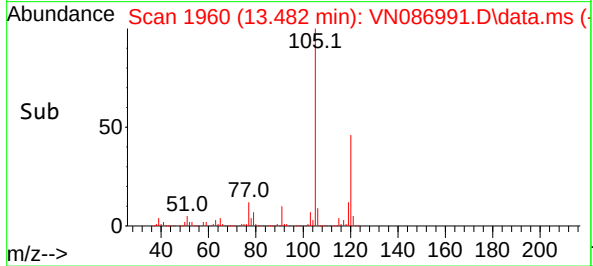
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



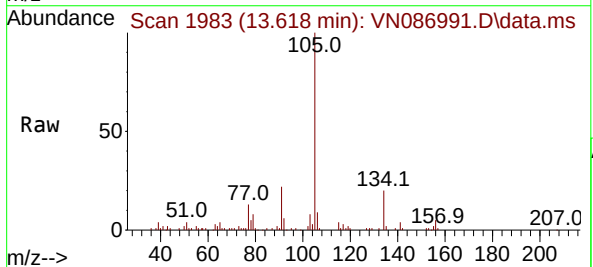
Tgt Ion:105 Resp: 3198494
Ion Ratio Lower Upper
105 100
120 47.5 23.2 69.6

Manual Integrations
APPROVED

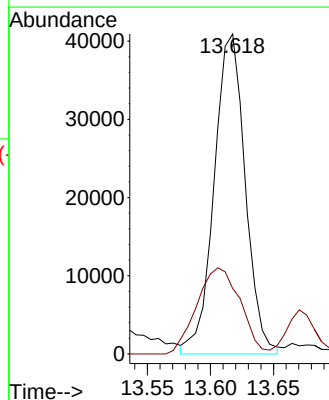
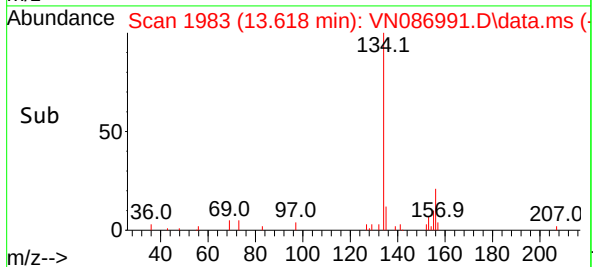
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

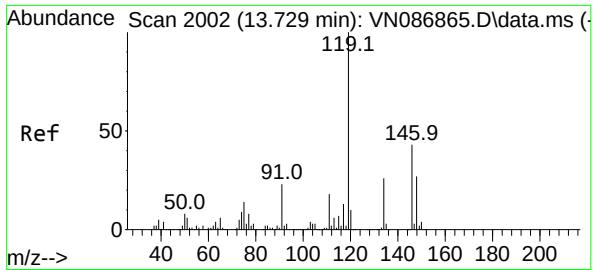


#85
sec-Butylbenzene
Concen: 4.489 ug/l m
RT: 13.618 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26



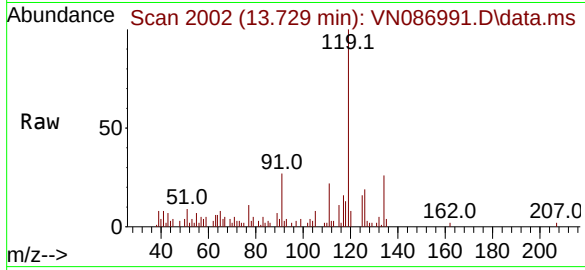
Tgt Ion:105 Resp: 70137
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0#





#86
p-Isopropyltoluene
Concen: 1.373 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

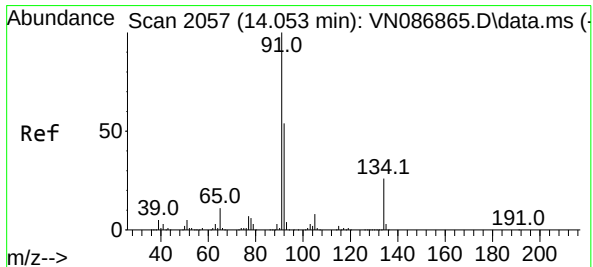
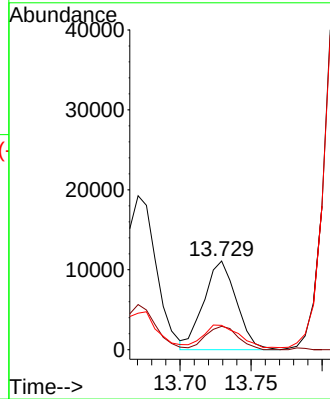
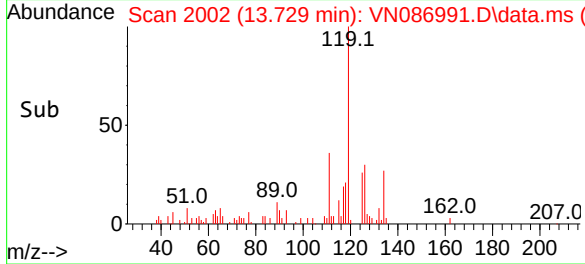
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 119 Resp: 17728
Ion Ratio Lower Upper
119 100
134 26.0 13.5 40.4
91 0.0 11.5 34.4

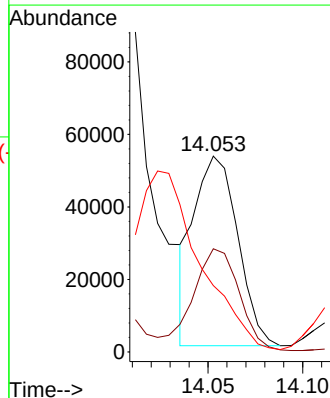
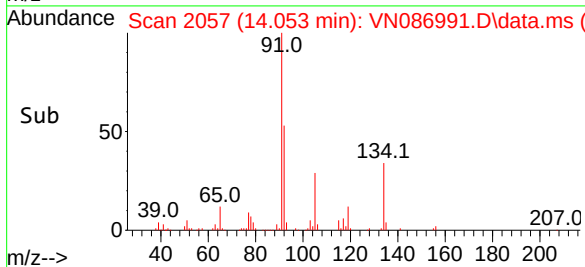
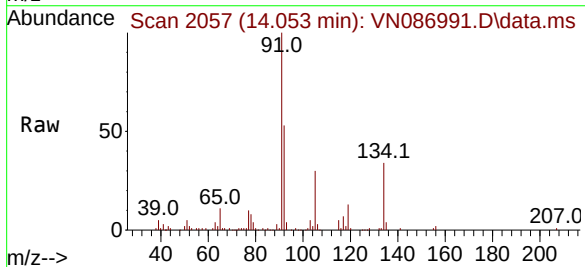
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#89
n-Butylbenzene
Concen: 6.715 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 91 Resp: 84006
Ion Ratio Lower Upper
91 100
92 58.4 27.5 82.4
134 0.0 13.0 39.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086991.D
 Acq On : 12 Jun 2025 20:26
 Operator : JC\MD
 Sample : Q2268-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086991.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.283	216	226	243	rBV	371698	913370	5.62%	0.757%
2	3.671	281	292	306	rBV3	109679	303833	1.87%	0.252%
3	4.448	411	424	443	rBV3	65705	237017	1.46%	0.196%
4	5.300	556	569	572	rBV2	154996	457292	2.82%	0.379%
5	5.371	573	581	614	rVB4	334537	1671270	10.29%	1.384%
6	5.836	644	660	681	rBV3	475611	1709715	10.53%	1.416%
7	6.336	733	745	761	rBV	78394	244855	1.51%	0.203%
8	6.677	785	803	815	rBV2	129833	400523	2.47%	0.332%
9	6.812	815	826	836	rBV	84331	268523	1.65%	0.222%
10	7.100	864	875	890	rBV4	106442	335312	2.06%	0.278%
11	7.341	906	916	936	rVV	717065	2204689	13.57%	1.826%
12	8.018	1024	1031	1039	rVB2	147336	361545	2.23%	0.300%
13	8.177	1049	1058	1062	rBV	196144	484341	2.98%	0.401%
14	8.236	1062	1068	1071	rBV	348096	750752	4.62%	0.622%
15	8.336	1080	1085	1096	rVB3	223983	589909	3.63%	0.489%
16	8.453	1096	1105	1112	rBV	156938	361912	2.23%	0.300%
17	8.612	1121	1132	1143	rBV	1272478	3283618	20.21%	2.720%
18	8.736	1143	1153	1156	rBV4	267768	698131	4.30%	0.578%
19	8.788	1157	1162	1170	rVB3	381115	975215	6.00%	0.808%
20	8.865	1170	1175	1183	rVB	133737	300454	1.85%	0.249%
21	8.947	1183	1189	1204	rVB3	64590	194677	1.20%	0.161%
22	9.106	1204	1216	1224	rBV2	774599	1881648	11.58%	1.559%
23	9.341	1249	1256	1260	rBV	107964	215479	1.33%	0.179%
24	9.388	1260	1264	1281	rVB2	91827	197182	1.21%	0.163%
25	9.606	1281	1301	1318	rBV2	483989	1614423	9.94%	1.337%
26	9.782	1325	1331	1337	rVB	126909	239588	1.47%	0.198%
27	9.941	1351	1358	1360	rBV2	102631	185804	1.14%	0.154%
28	10.018	1367	1371	1379	rVB3	95820	202860	1.25%	0.168%
29	10.106	1379	1386	1390	rBV	312729	608542	3.75%	0.504%
30	10.153	1390	1394	1400	rVB2	149648	282104	1.74%	0.234%
31	10.347	1417	1427	1431	rBV7	61024	187211	1.15%	0.155%
32	10.453	1440	1445	1450	rBV	193848	327575	2.02%	0.271%
33	10.571	1457	1465	1471	rBV	902019	1683866	10.37%	1.395%
34	10.629	1471	1475	1482	rVB	145124	285272	1.76%	0.236%
35	10.759	1488	1497	1507	rVV5	103275	276983	1.71%	0.229%
36	10.988	1529	1536	1546	rVB2	171558	462356	2.85%	0.383%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086991.D
 Acq On : 12 Jun 2025 20:26
 Operator : JC\MD
 Sample : Q2268-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605

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\82N060625W.M
 Title : SW846 8260

37	11.871	1678	1686	1693	rVV	720564	1368369	8.42%	1.134%
38	11.965	1694	1702	1712	rVV	7979810	13515388	83.20%	11.196%
39	12.076	1712	1721	1734	rVB	8746624	16244257	100.00%	13.457%
40	12.400	1765	1776	1786	rBV	184394	345954	2.13%	0.287%
41	12.694	1819	1826	1838	rVB	831173	1372239	8.45%	1.137%
42	12.847	1845	1852	1863	rVB	498849	884833	5.45%	0.733%
43	13.035	1871	1884	1890	rBV	1671229	2759249	16.99%	2.286%
44	13.129	1890	1900	1904	rVV	1594589	2955237	18.19%	2.448%
45	13.171	1904	1907	1915	rVB	1554638	2400911	14.78%	1.989%
46	13.335	1928	1935	1944	rVB	1838051	3006185	18.51%	2.490%
47	13.482	1947	1960	1974	rBV	5340556	8661297	53.32%	7.175%
48	13.612	1974	1982	1987	rBV3	111347	275753	1.70%	0.228%
49	13.818	2006	2017	2033	rVB2	2259201	4991994	30.73%	4.135%
50	13.953	2033	2040	2042	rBV	650034	1063715	6.55%	0.881%
51	13.994	2042	2047	2063	rVV	4923028	9239166	56.88%	7.654%
52	14.118	2063	2068	2073	rVB	121332	196335	1.21%	0.163%
53	14.182	2073	2079	2084	rBV2	386193	634665	3.91%	0.526%
54	14.241	2084	2089	2092	rVV	309357	512778	3.16%	0.425%
55	14.270	2092	2094	2098	rVV	215810	290239	1.79%	0.240%
56	14.329	2098	2104	2110	rVV	1440341	2237361	13.77%	1.853%
57	14.394	2110	2115	2118	rVV	354877	568236	3.50%	0.471%
58	14.441	2118	2123	2131	rVB2	1328012	2308590	14.21%	1.912%
59	14.570	2140	2145	2151	rVB2	150333	257275	1.58%	0.213%
60	14.653	2151	2159	2163	rBV	900426	1523492	9.38%	1.262%
61	14.694	2163	2166	2170	rVV	478179	688486	4.24%	0.570%
62	14.923	2200	2205	2211	rBV	1011543	1691744	10.41%	1.401%
63	15.053	2217	2227	2233	rBV2	1653504	3583927	22.06%	2.969%
64	15.117	2233	2238	2247	rVV3	158365	326974	2.01%	0.271%
65	15.206	2247	2253	2261	rVV2	291876	554137	3.41%	0.459%
66	15.317	2261	2272	2277	rVV3	289735	796783	4.91%	0.660%
67	15.359	2277	2279	2284	rVV2	124963	191716	1.18%	0.159%
68	15.435	2284	2292	2302	rVB2	230050	592803	3.65%	0.491%
69	15.635	2312	2326	2338	rBV	3486683	6941827	42.73%	5.751%
70	15.747	2338	2345	2350	rVV	240521	507527	3.12%	0.420%
71	15.941	2371	2378	2387	rBV	106977	213795	1.32%	0.177%
72	16.123	2400	2409	2420	rBV	63128	198290	1.22%	0.164%
73	16.776	2512	2520	2522	rBV	793897	1415990	8.72%	1.173%

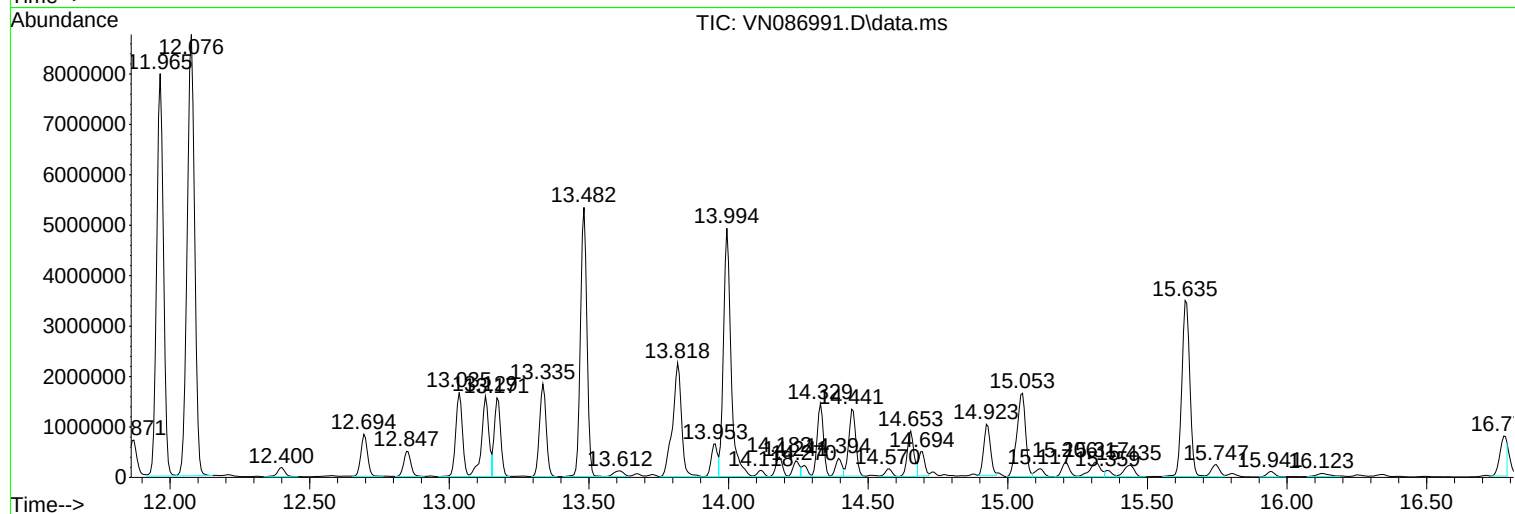
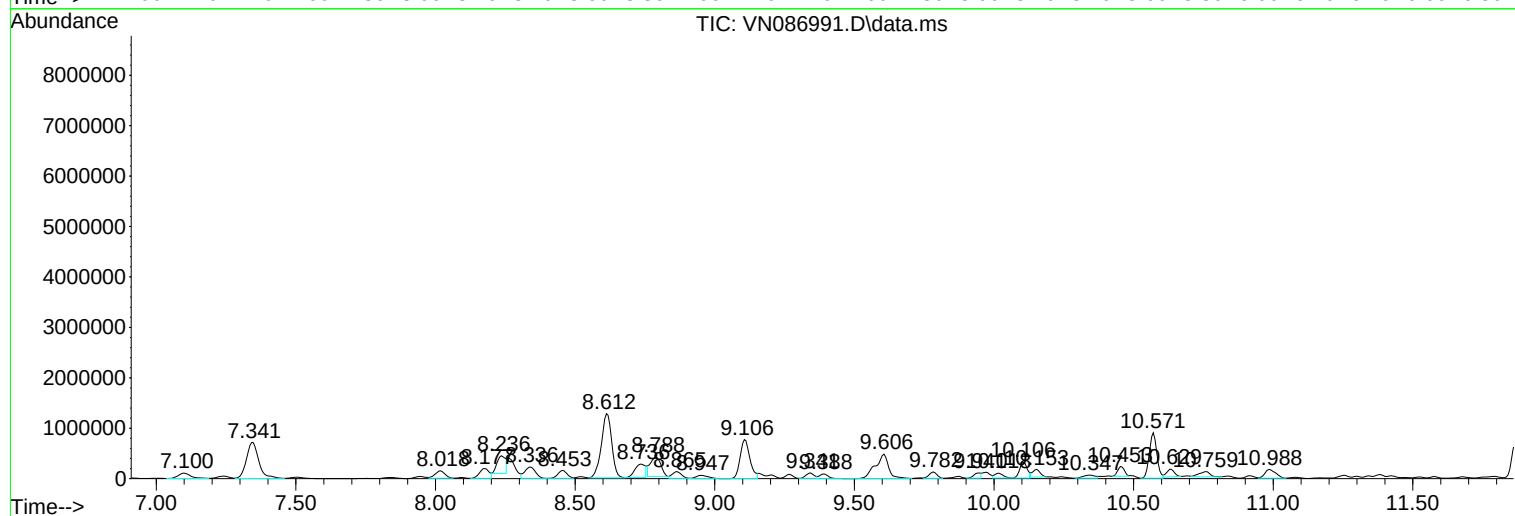
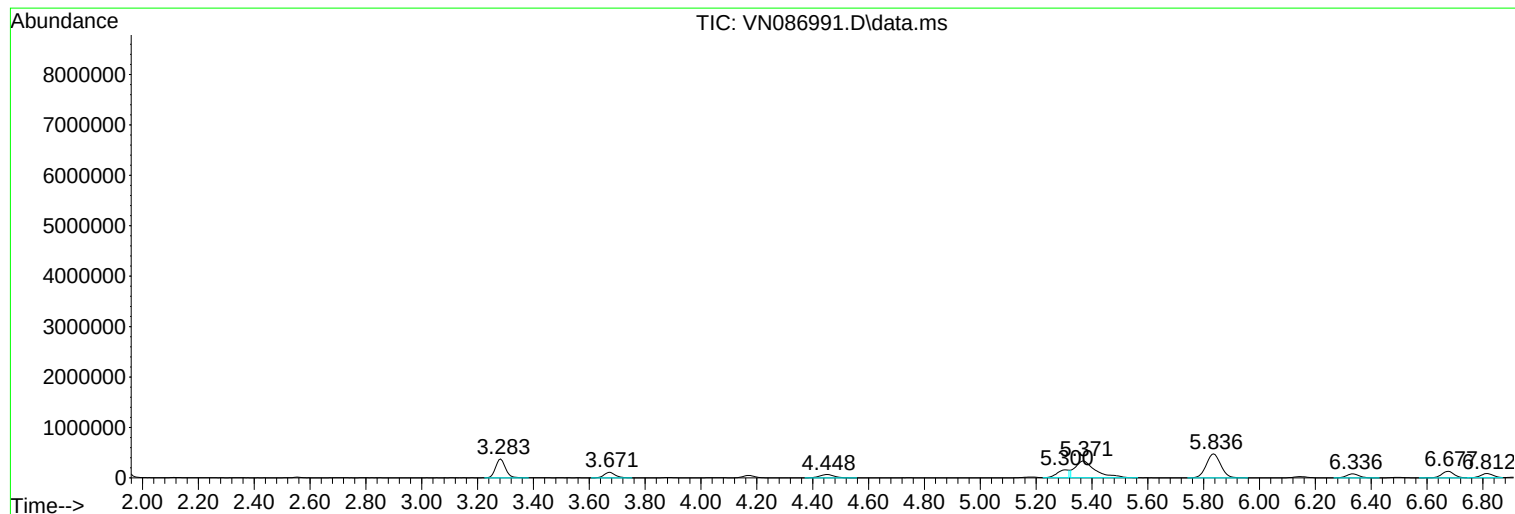
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Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

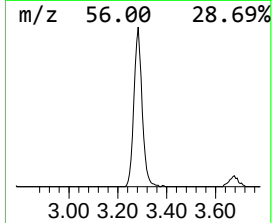
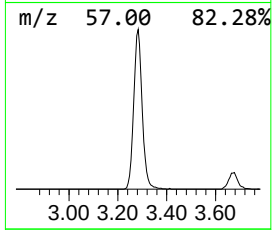
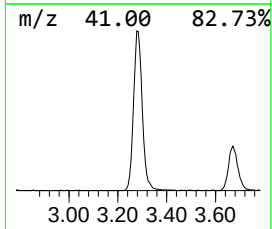
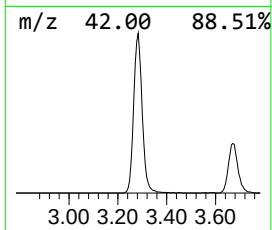
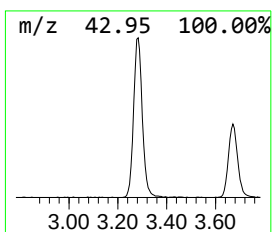
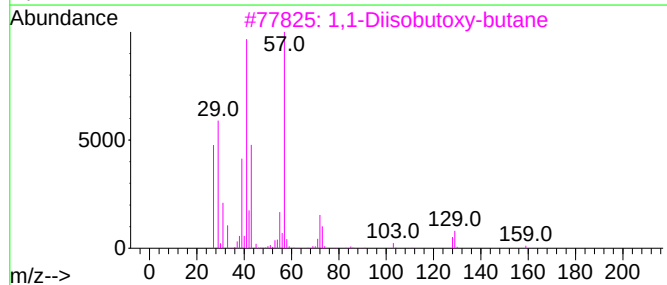
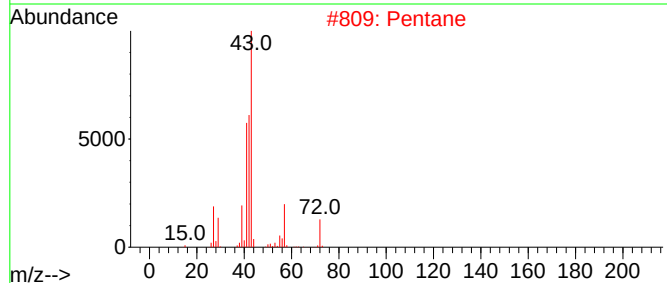
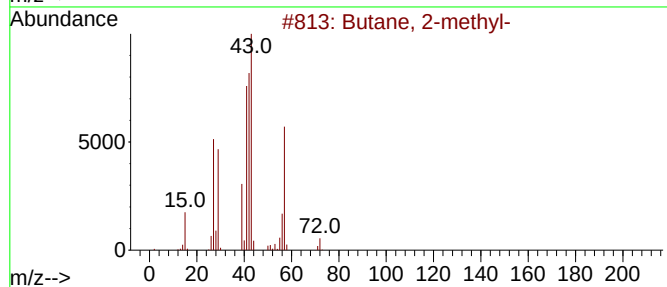
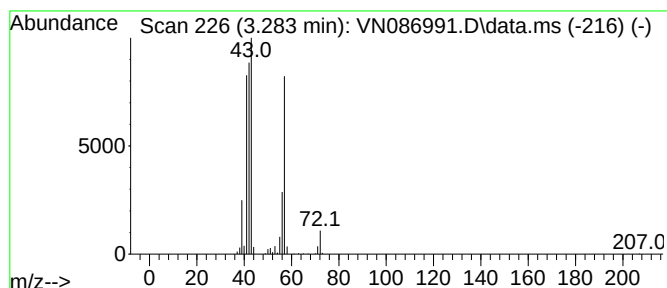
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Quant Title : SW846 8260

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

Peak Number 1 Butane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.283	60.83 ug/l	913370	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methyl-	72	C5H12	000078-78-4	86
2			Pentane	72	C5H12	000109-66-0	43
3			1,1-Diisobutoxy-butane	202	C12H26O2	013002-16-9	27
4			3-Buten-1-ol	72	C4H8O	000627-27-0	25
5			Cyclobutane, methyl-	70	C5H10	000598-61-8	17



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

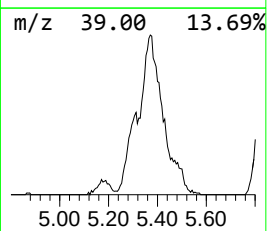
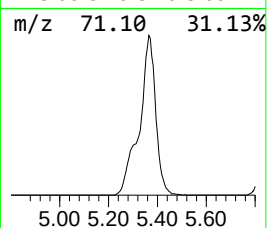
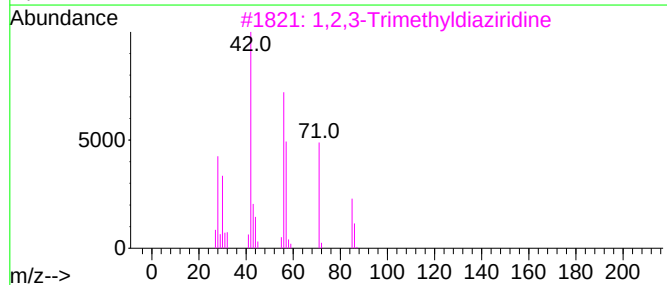
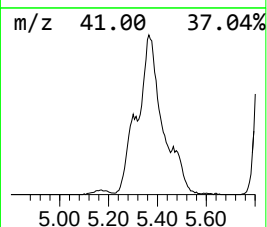
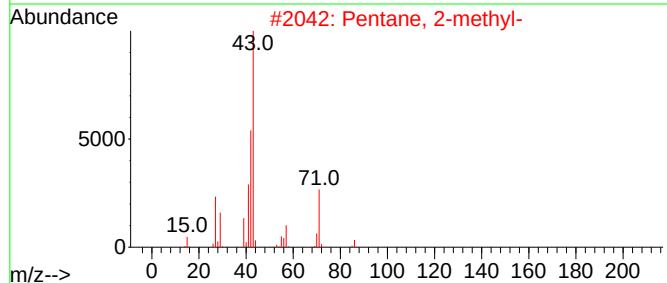
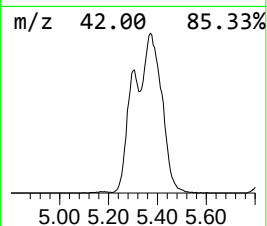
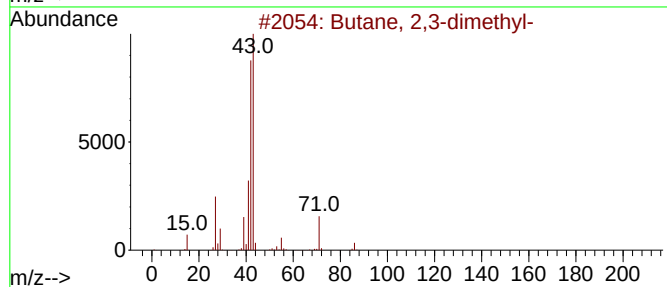
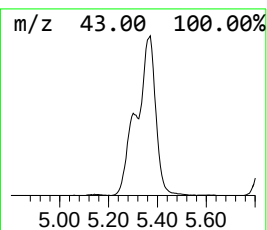
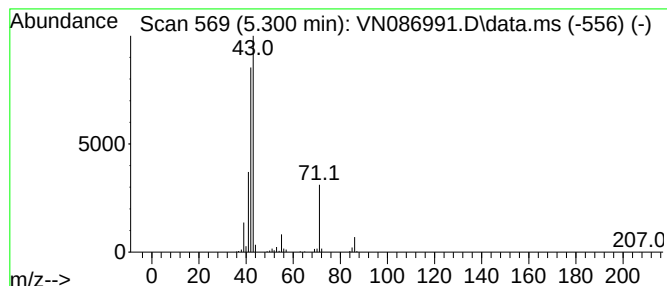
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 2 Butane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.300	30.46 ug/l	457292	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
2			Pentane, 2-methyl-	86	C6H14	000107-83-5	50
3			1,2,3-Trimethyldiaziridine	86	C4H10N2	113604-56-1	38
4			Pentane	72	C5H12	000109-66-0	36
5			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	12



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

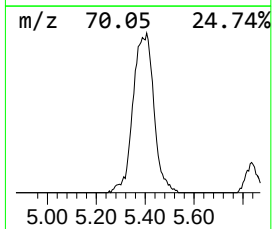
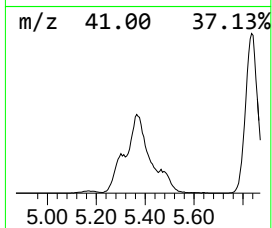
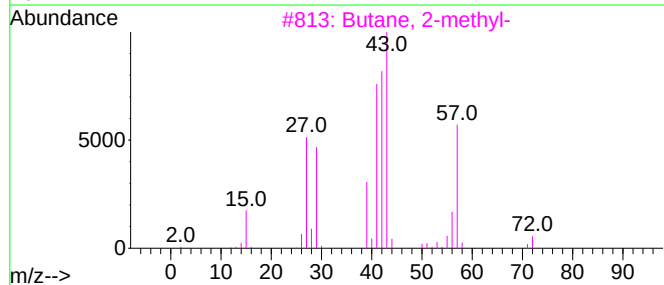
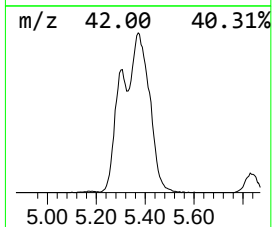
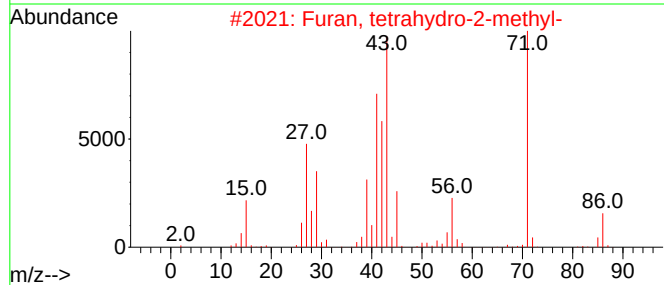
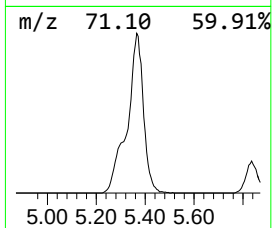
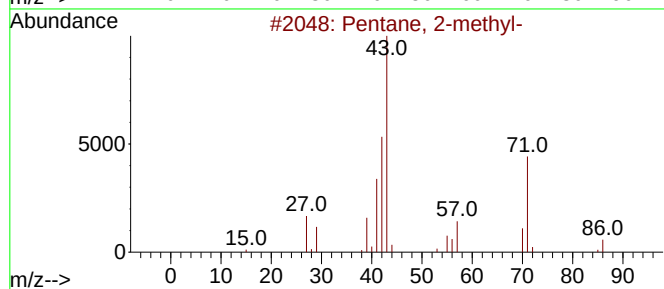
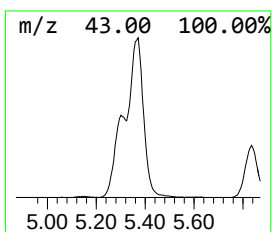
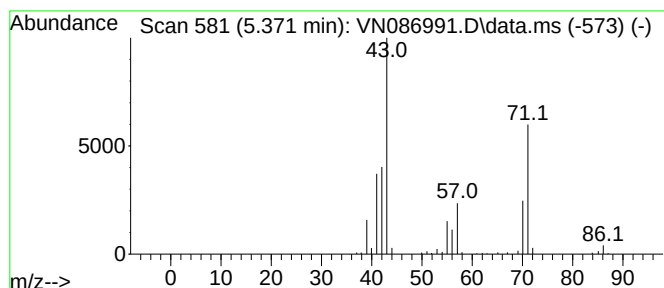
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Quant Title : SW846 8260

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.371	111.31 ug/l	1671270	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	87
2			Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	36
3			Butane, 2-methyl-	72	C5H12	000078-78-4	27
4			Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	25
5			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	25



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

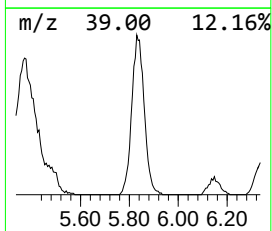
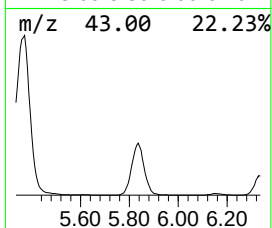
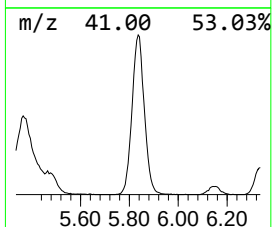
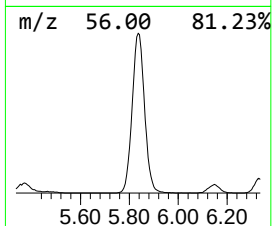
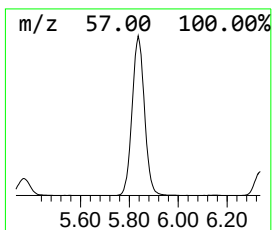
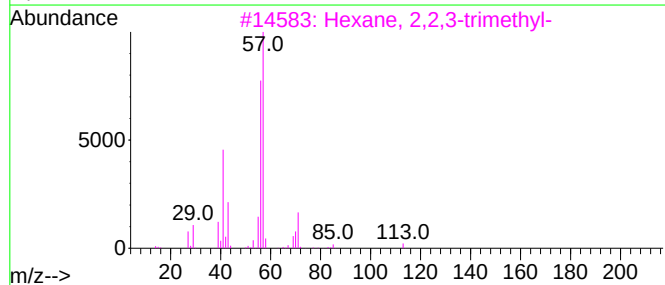
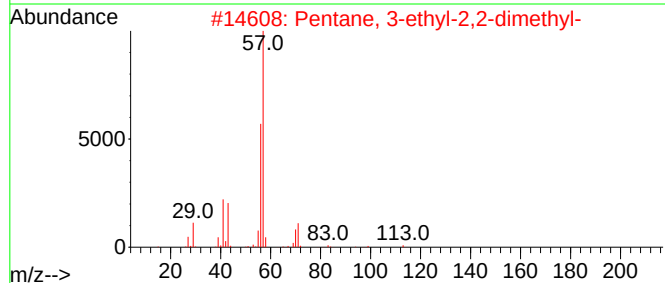
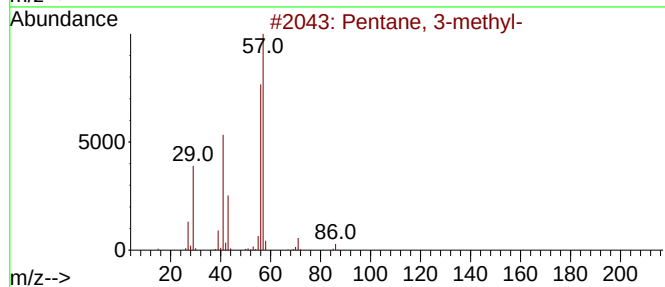
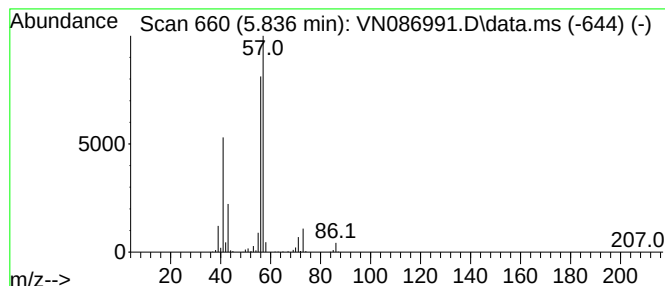
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 4 Pentane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.836	113.87 ug/l	1709720	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2			Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	72
3			Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	56
4			Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	50
5			Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	45



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

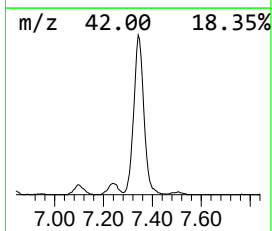
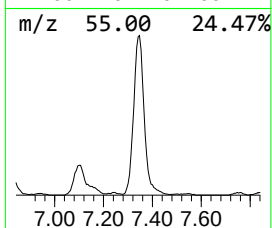
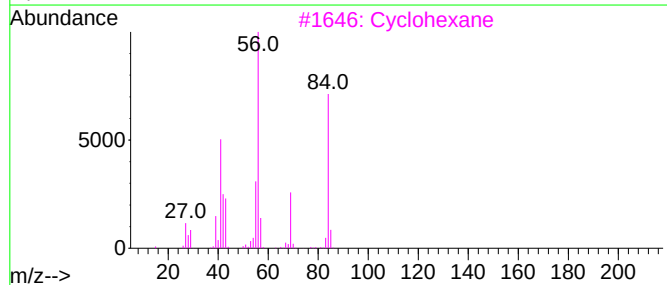
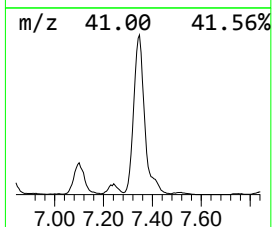
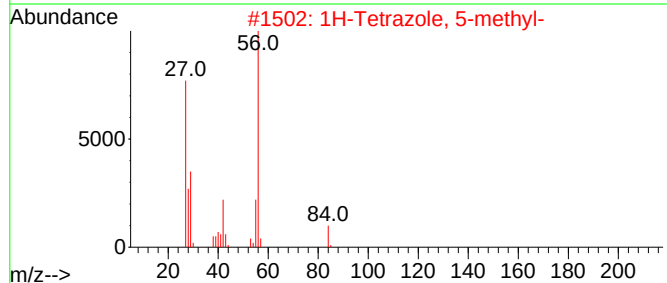
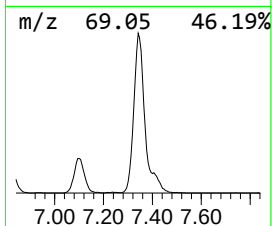
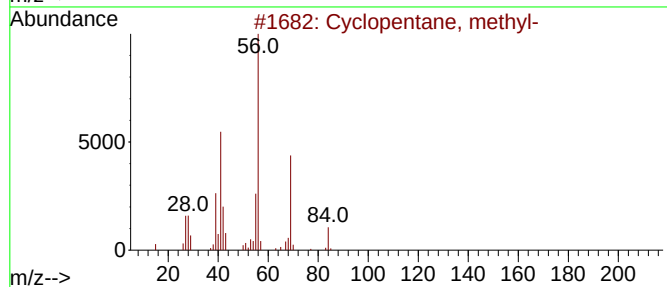
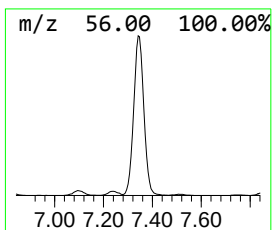
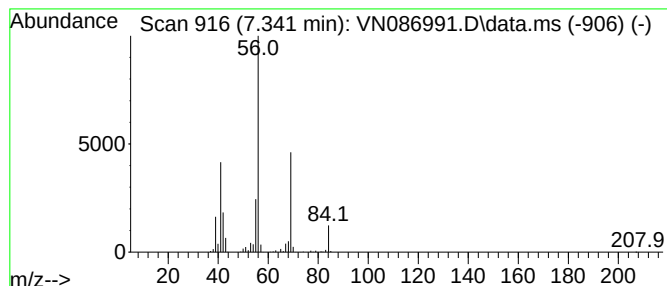
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Quant Title : SW846 8260

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

Peak Number 5 Cyclopentane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.341	146.83 ug/l	2204690	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2			1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	80
3			Cyclohexane	84	C6H12	000110-82-7	78
4			Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5			1-Pentene, 2-methyl-	84	C6H12	000763-29-1	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

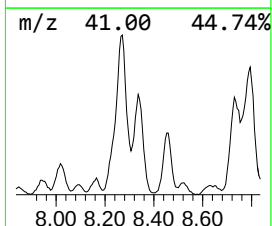
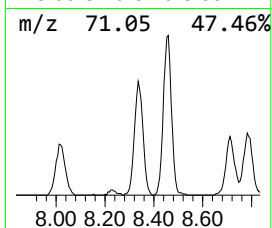
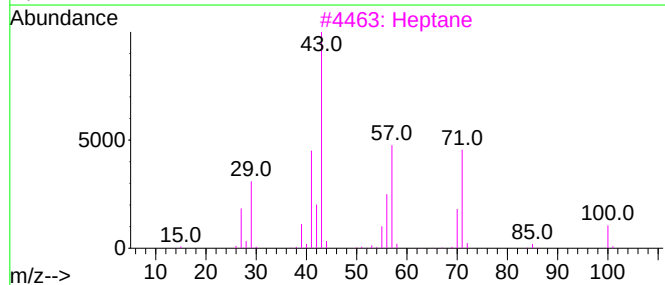
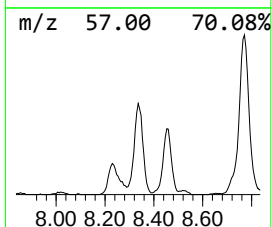
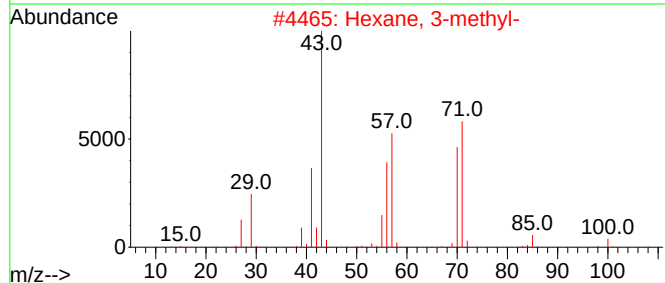
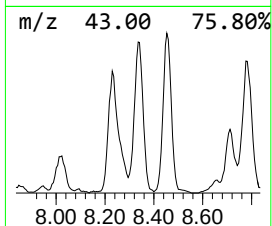
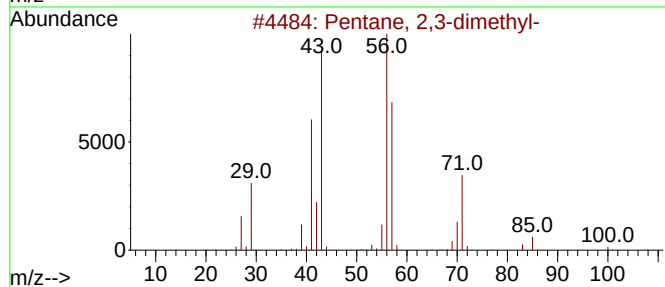
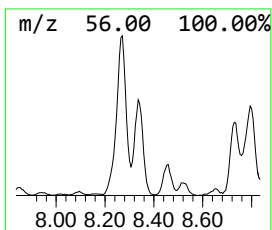
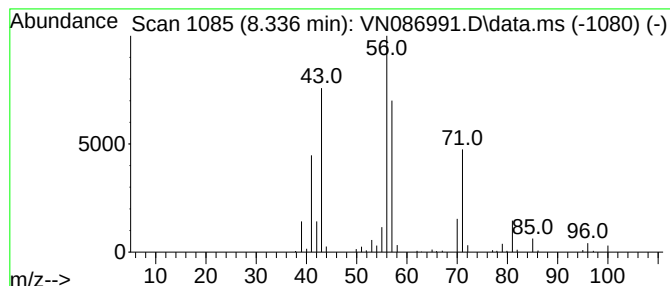
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Quant Title : SW846 8260

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

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.336	39.29 ug/l	589909	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	46
3			Heptane	100	C7H16	000142-82-5	43
4			Ethane, isocyanato-	71	C3H5NO	000109-90-0	42
5			Cyanic acid, ethyl ester	71	C3H5NO	000627-48-5	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

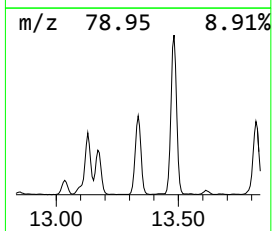
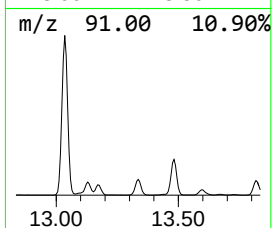
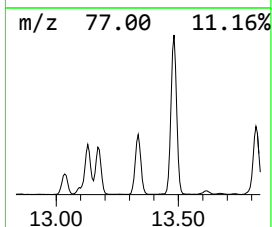
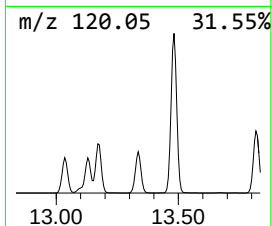
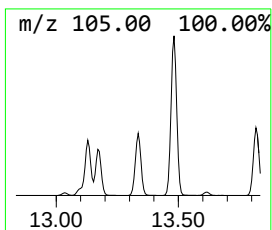
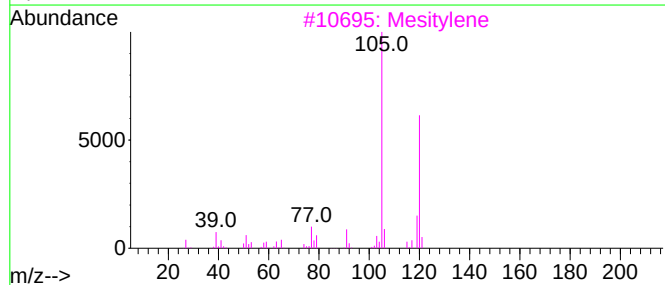
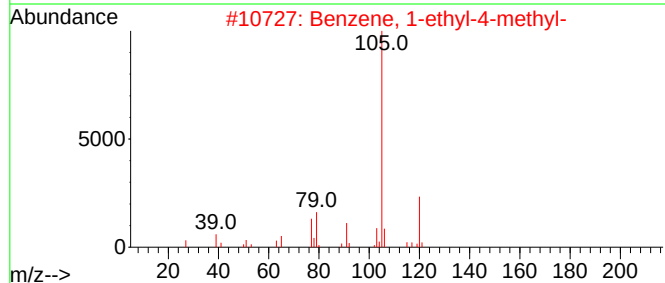
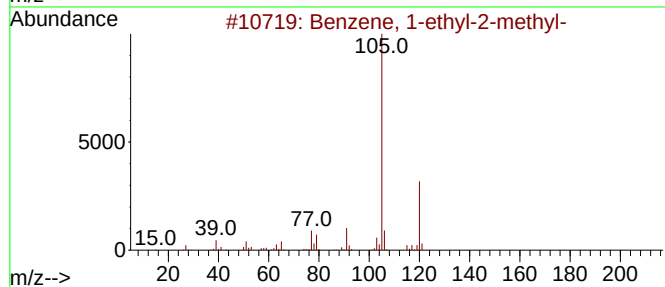
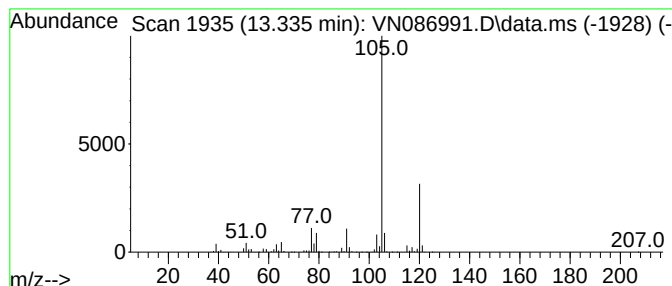
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Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	30.11 ug/l	3006190	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
3			Mesitylene	120	C9H12	000108-67-8	91
4			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

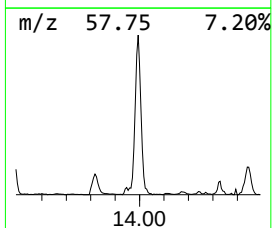
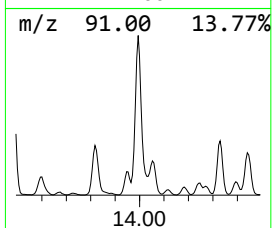
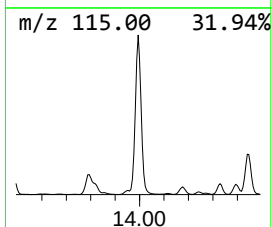
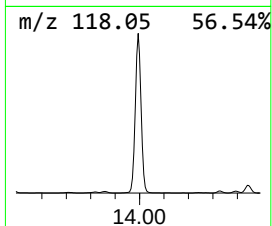
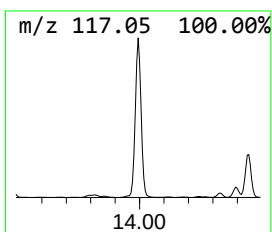
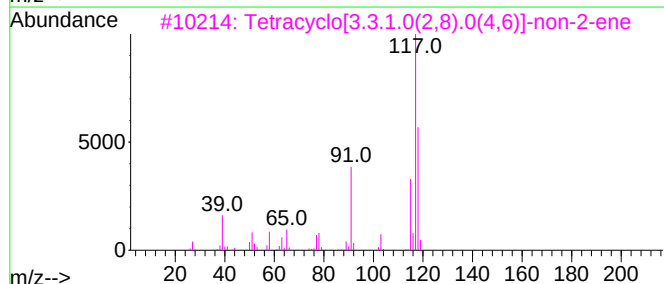
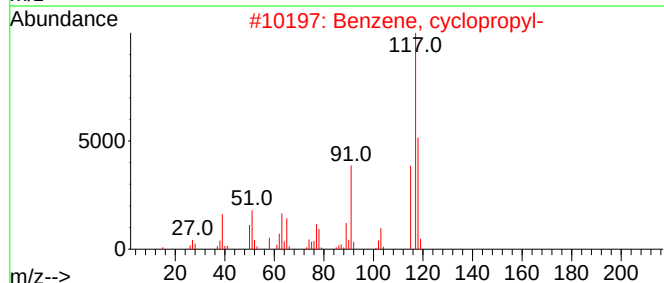
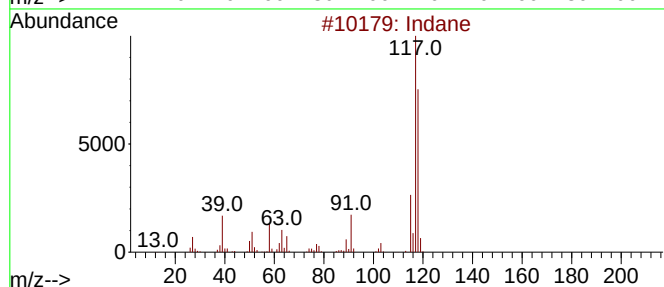
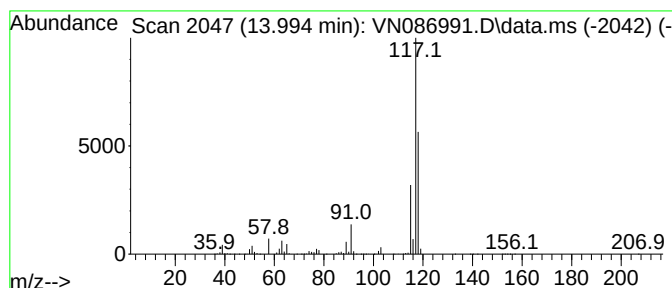
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Quant Title : SW846 8260

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

Peak Number 8 Indane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.994	92.54 ug/l	9239170	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	87
2			Benzene, cyclopropyl-	118	C9H10	000873-49-4	74
3			Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	72
4			Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
5			7-Methylenecycloocta-1,3,5-triene	118	C9H10	002570-13-0	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

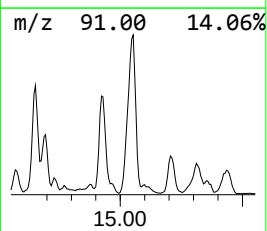
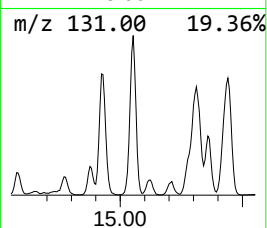
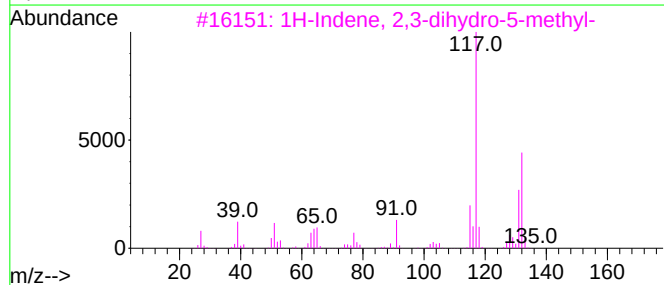
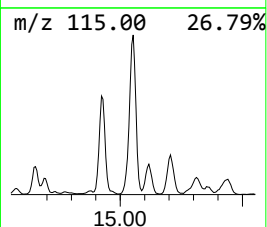
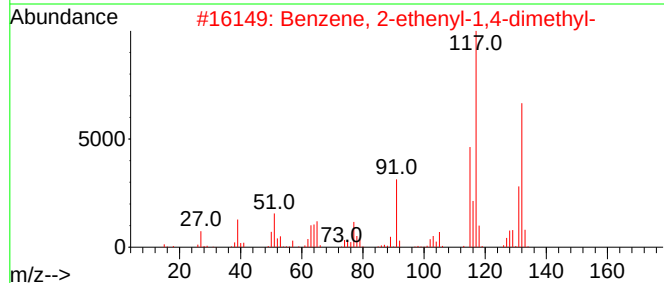
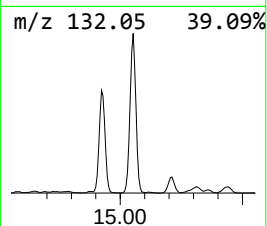
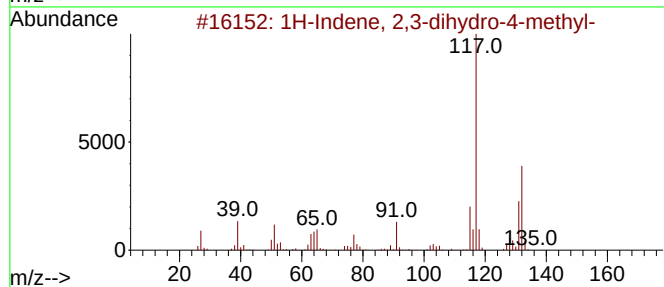
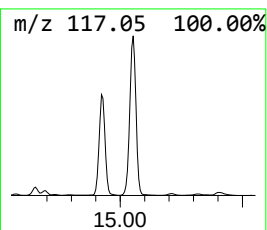
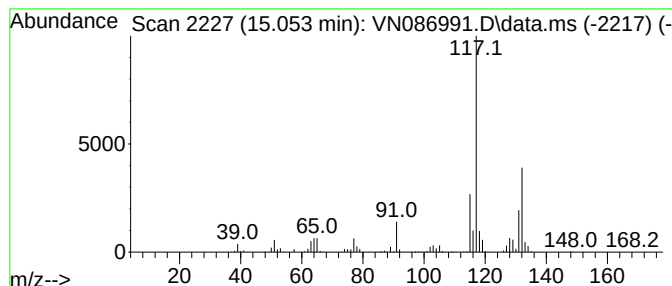
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Quant Title : SW846 8260

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

Peak Number 9 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	35.90 ug/l	3583930	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	95
2			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	93
3			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	93
4			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
5			1-Phenyl-1-butene	132	C10H12	000824-90-8	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

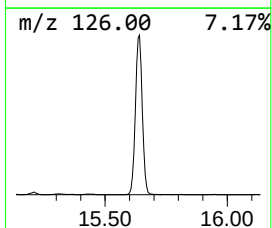
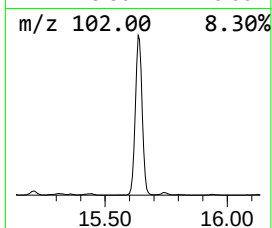
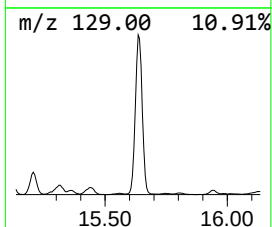
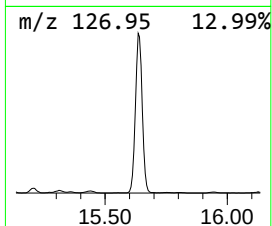
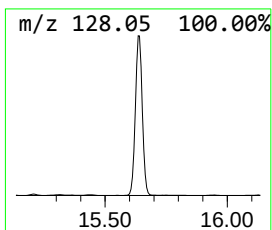
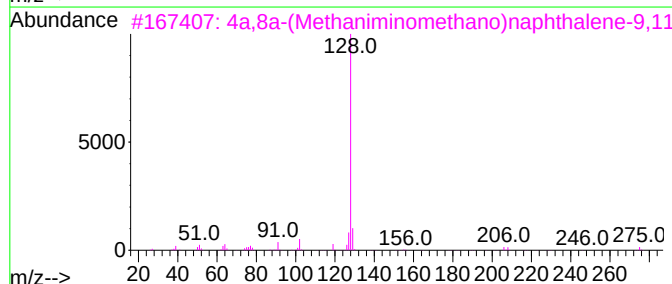
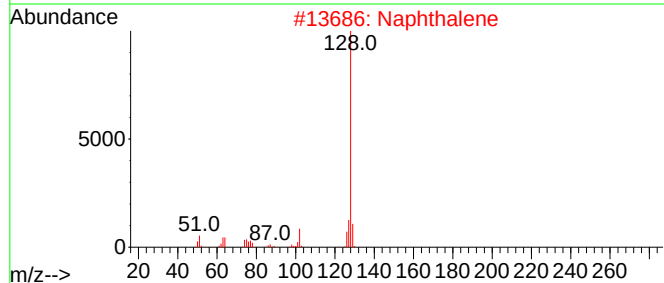
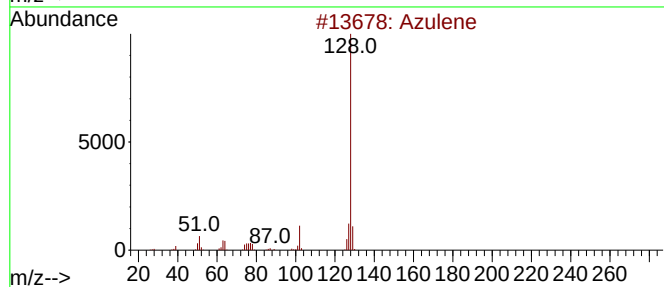
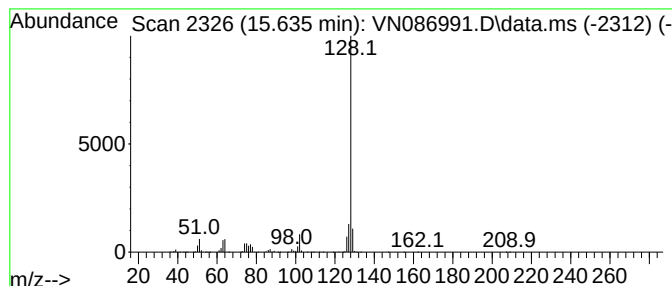
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 10 Azulene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD		R.T.	
15.635	69.53 ug/l	6941830	1,4-Dichlorobenzene-d4		13.794	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Azulene		128	C10H8	000275-51-4	95
2	Naphthalene		128	C10H8	000091-20-3	95
3	4a,8a-(Methaniminomethano)naphth...		275	C18H13NO2	069915-10-2	74
4	1,3-Dicyanobenzene		128	C8H4N2	000626-17-5	59
5	4-Phenylbut-3-ene-1-yne		128	C10H8	100022-12-0	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
Acq On : 12 Jun 2025 20:26
Operator : JC\MD
Sample : Q2268-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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
Butane, 2-methyl-	3.283	60.8	ug/l	913370	1	8.230	750752	50.0
Butane, 2,3-dim...	5.300	30.5	ug/l	457292	1	8.230	750752	50.0
Pentane, 2-methyl-	5.371	111.3	ug/l	1671270	1	8.230	750752	50.0
Pentane, 3-methyl-	5.836	113.9	ug/l	1709720	1	8.230	750752	50.0
Cyclopentane, m...	7.341	146.8	ug/l	2204690	1	8.230	750752	50.0
Pentane, 2,3-di...	8.336	39.3	ug/l	589909	1	8.230	750752	50.0
Benzene, 1-ethy...	13.335	30.1	ug/l	3006190	4	13.794	4991990	50.0
Indane	13.994	92.5	ug/l	9239170	4	13.794	4991990	50.0
1H-Indene, 2,3-...	15.053	35.9	ug/l	3583930	4	13.794	4991990	50.0
Azulene	15.635	69.5	ug/l	6941830	4	13.794	4991990	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-03DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087010.D	10		06/13/25 18:24	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	2.20	UD	2.20	10.0	ug/L
74-87-3	Chloromethane	3.20	UD	3.20	10.0	ug/L
75-01-4	Vinyl Chloride	2.60	UD	2.60	10.0	ug/L
74-83-9	Bromomethane	14.4	UD	14.4	50.0	ug/L
75-00-3	Chloroethane	4.70	UD	4.70	10.0	ug/L
75-69-4	Trichlorofluoromethane	3.30	UD	3.30	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	UD	2.50	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	UDQ	2.30	10.0	ug/L
67-64-1	Acetone	15.1	UD	15.1	50.0	ug/L
75-15-0	Carbon Disulfide	2.10	UDQ	2.10	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	1.60	UD	1.60	10.0	ug/L
79-20-9	Methyl Acetate	2.70	UD	2.70	10.0	ug/L
75-09-2	Methylene Chloride	2.80	UD	2.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	2.30	UD	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	UD	2.30	10.0	ug/L
110-82-7	Cyclohexane	42.2	JD	14.5	50.0	ug/L
78-93-3	2-Butanone	12.4	JD	9.80	50.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	2.50	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	1.90	UD	1.90	10.0	ug/L
74-97-5	Bromochloromethane	2.20	UD	2.20	10.0	ug/L
67-66-3	Chloroform	2.50	UD	2.50	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	UD	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	32.1	D	1.60	10.0	ug/L
71-43-2	Benzene	80.7	D	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	UD	2.20	10.0	ug/L
79-01-6	Trichloroethene	0.93	UD	0.93	10.0	ug/L
78-87-5	1,2-Dichloropropane	2.00	UD	2.00	10.0	ug/L
75-27-4	Bromodichloromethane	2.20	UD	2.20	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	6.80	UD	6.80	50.0	ug/L
108-88-3	Toluene	6.70	JD	1.40	10.0	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-03DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087010.D	10		06/13/25 18:24	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.70	UD	1.70	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.60	UD	1.60	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	UD	2.10	10.0	ug/L
591-78-6	2-Hexanone	8.90	UD	8.90	50.0	ug/L
124-48-1	Dibromochloromethane	1.80	UD	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	1.50	UD	1.50	10.0	ug/L
127-18-4	Tetrachloroethene	2.30	UD	2.30	10.0	ug/L
108-90-7	Chlorobenzene	1.20	UD	1.20	10.0	ug/L
100-41-4	Ethyl Benzene	290	D	1.30	10.0	ug/L
179601-23-1	m/p-Xylenes	360	D	2.40	20.0	ug/L
95-47-6	o-Xylene	1.20	UDQ	1.20	10.0	ug/L
100-42-5	Styrene	1.50	UD	1.50	10.0	ug/L
75-25-2	Bromoform	1.90	UDQ	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	29.2	D	1.20	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.60	UD	2.60	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	1.60	UD	1.60	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	1.90	UD	1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	1.60	UD	1.60	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	5.30	UD	5.30	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.00	UD	2.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	2.00	UD	2.00	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	52.5		86 - 113	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	270000	8.23			
540-36-3	1,4-Difluorobenzene	536000	9.106			
3114-55-4	Chlorobenzene-d5	479000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	230000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-2-20250605DL			SDG No.:	Q2268
Lab Sample ID:	Q2268-03DL			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:	Prep Date	Date Analyzed	Prep Batch ID
VN087010.D	10		06/13/25 18:24	VN061325

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\VN061325\
 Data File : VN087010.D
 Acq On : 13 Jun 2025 18:24
 Operator : JC\MD
 Sample : Q2268-03DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605DL

Quant Time: Jun 14 00:33:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	270034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	535823	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	478755	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	229728	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	186946	51.707	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	103.420%
35) Dibromofluoromethane	8.177	113	159901	50.356	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.720%
50) Toluene-d8	10.571	98	660051	52.507	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.020%
62) 4-Bromofluorobenzene	12.847	95	237664	50.888	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.780%

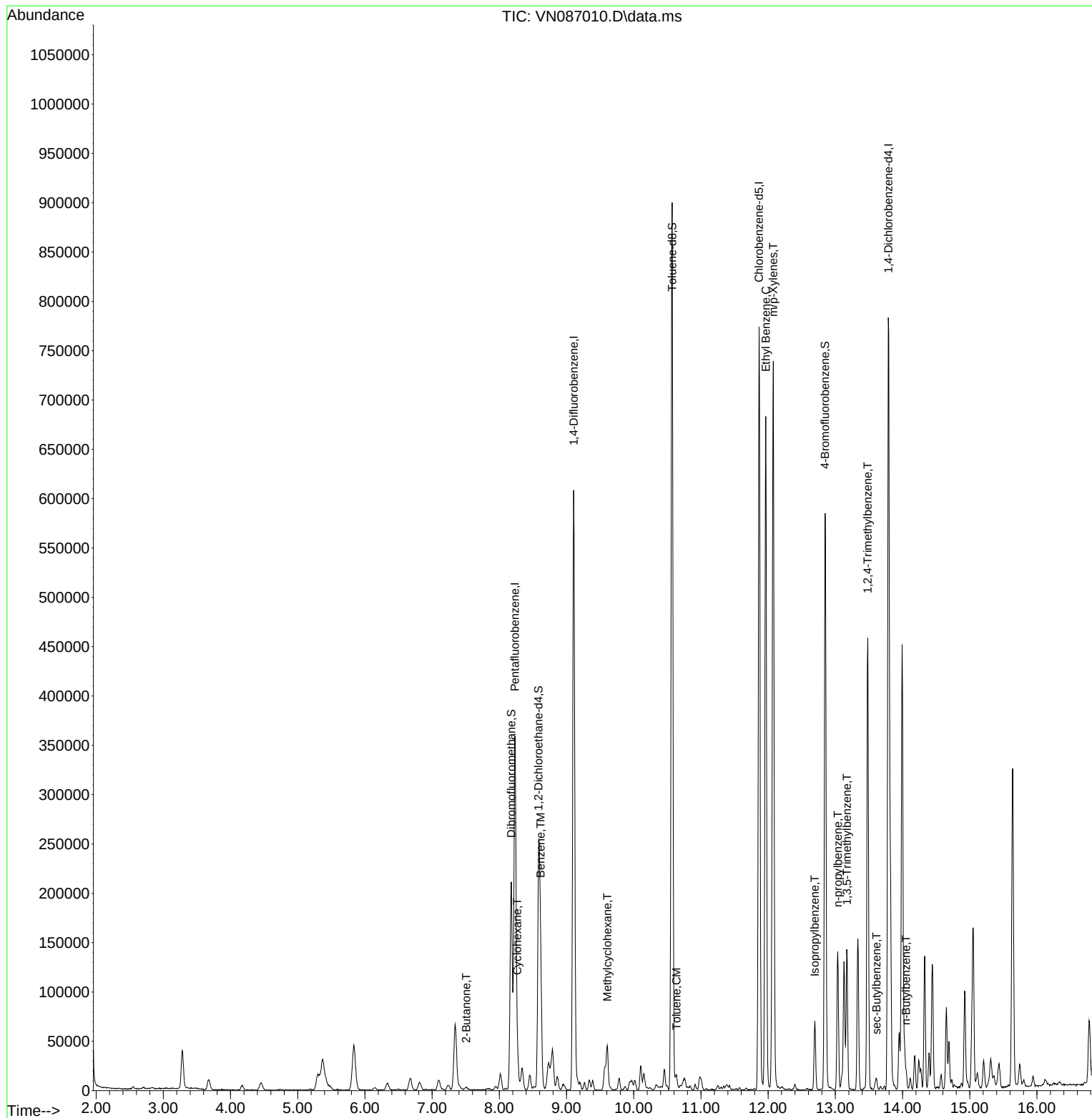
Target Compounds					Qvalue	
25) 2-Butanone	7.506	43	3870	1.242	ug/l	92
31) Cyclohexane	8.265	56	24719	4.215	ug/l #	89
39) Methylcyclohexane	9.606	83	20825	3.212	ug/l	96
40) Benzene	8.612	78	124882	8.071	ug/l	97
52) Toluene	10.635	92	6373	0.674	ug/l	97
67) Ethyl Benzene	11.965	91	524008	28.811	ug/l	99
68) m/p-Xylenes	12.077	106	252503	36.267	ug/l	99
73) Isopropylbenzene	12.694	105	48850	2.919	ug/l	99
78) n-propylbenzene	13.035	91	119469	5.874	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	77932	5.640	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	274162	19.787	ug/l	99
85) sec-Butylbenzene	13.612	105	7719m	0.420	ug/l	
89) n-Butylbenzene	14.053	91	6726m	0.457	ug/l	

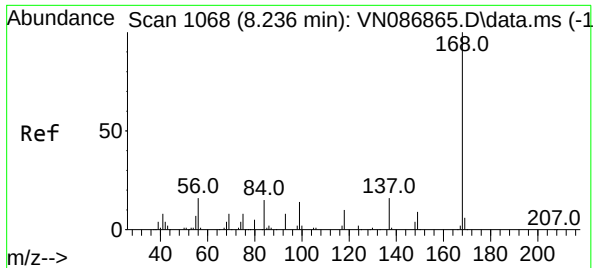
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN087010.D
Acq On : 13 Jun 2025 18:24
Operator : JC\MD
Sample : Q2268-03DL 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

Quant Time: Jun 14 00:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

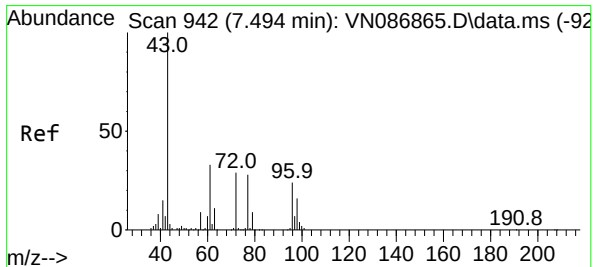
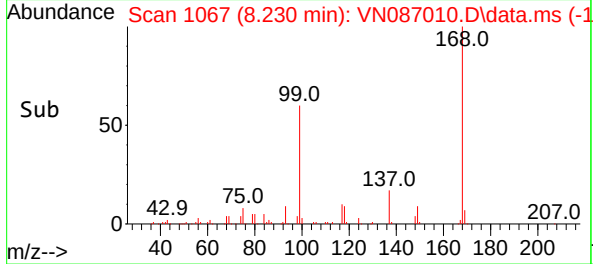
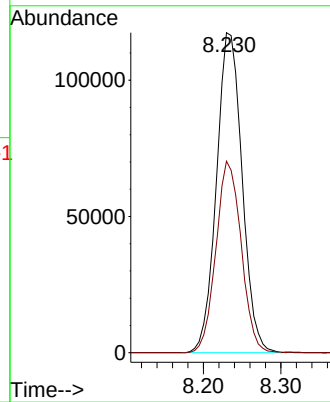
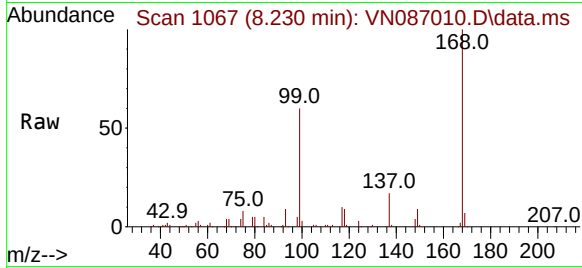




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

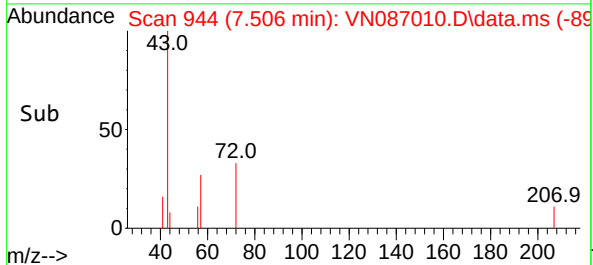
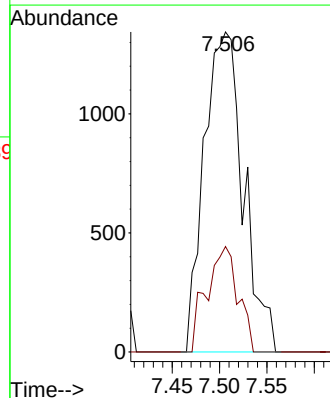
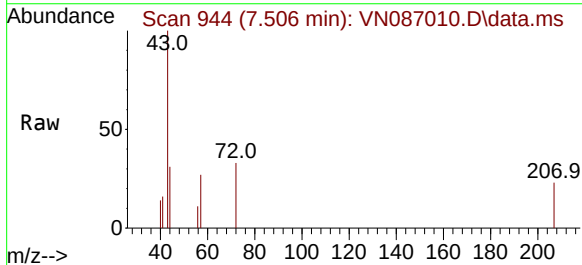
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

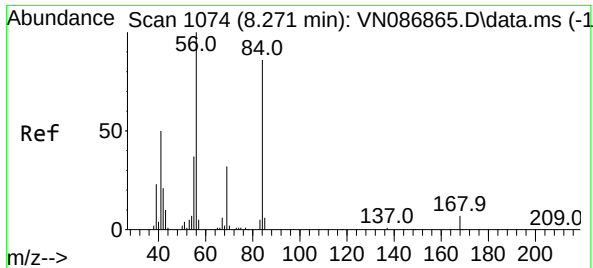
Tgt Ion:168 Resp: 270034
Ion Ratio Lower Upper
168 100
99 59.8 49.1 73.7



#25
2-Butanone
Concen: 1.242 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion: 43 Resp: 3870
Ion Ratio Lower Upper
43 100
72 33.0 23.0 34.6





#31

Cyclohexane

Concen: 4.215 ug/l

RT: 8.265 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087010.D

Acq: 13 Jun 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605DL

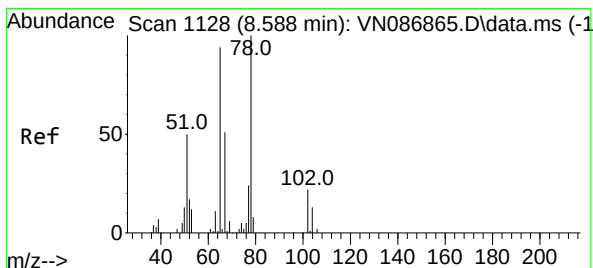
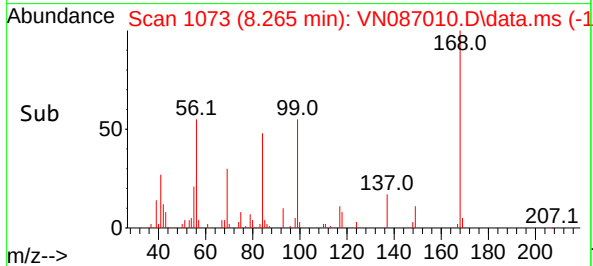
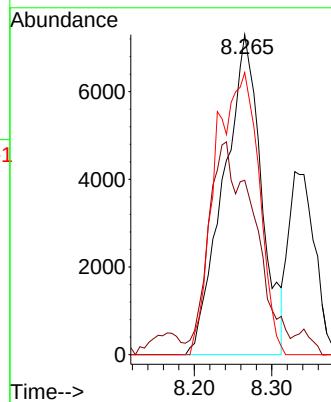
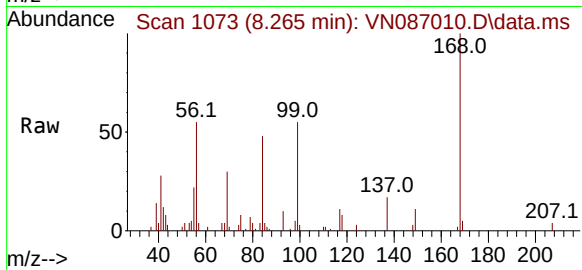
Tgt Ion: 56 Resp: 24719

Ion Ratio Lower Upper

56 100

69 50.7 25.4 38.0#

84 88.1 68.8 103.2



#33

1,2-Dichloroethane-d4

Concen: 51.707 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN087010.D

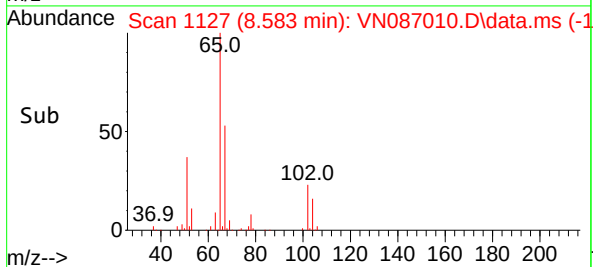
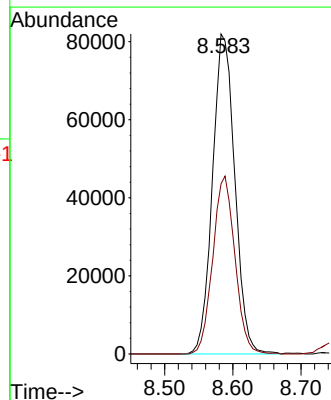
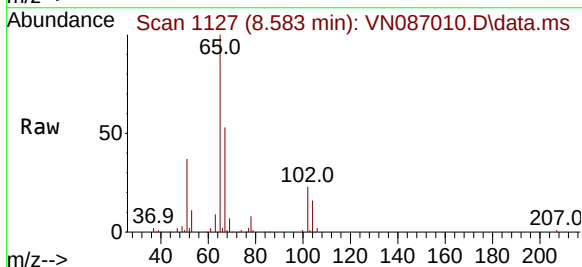
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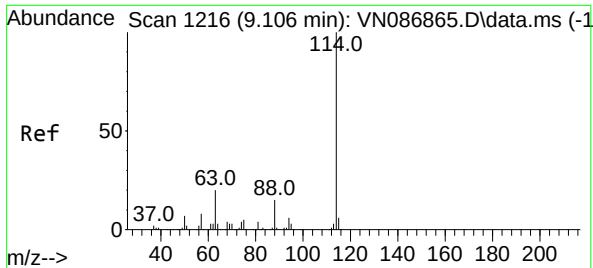
Tgt Ion: 65 Resp: 186946

Ion Ratio Lower Upper

65 100

67 55.1 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087010.D

Acq: 13 Jun 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605DL

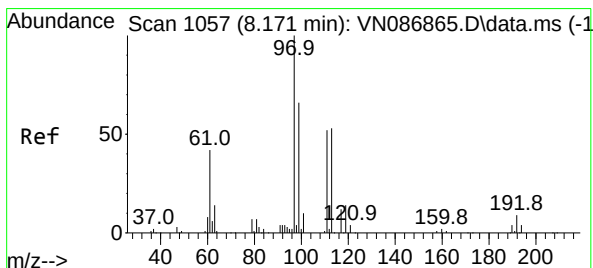
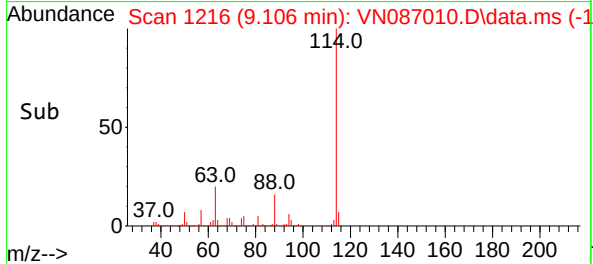
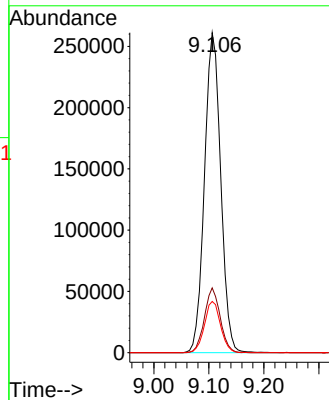
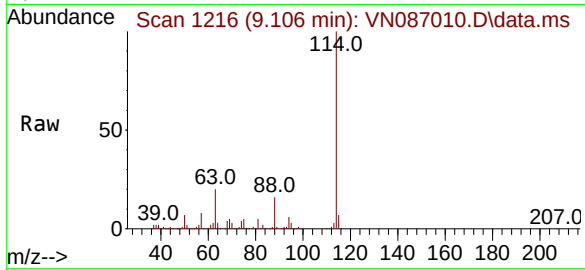
Tgt Ion:114 Resp: 535823

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 16.0 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.356 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087010.D

Acq: 13 Jun 2025 18:24

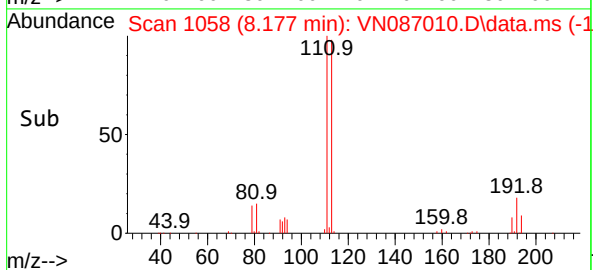
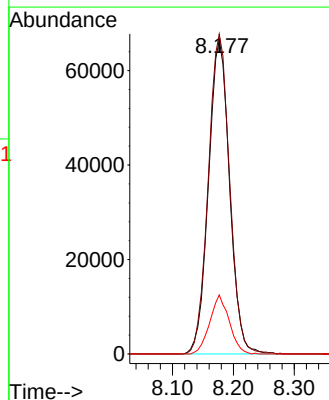
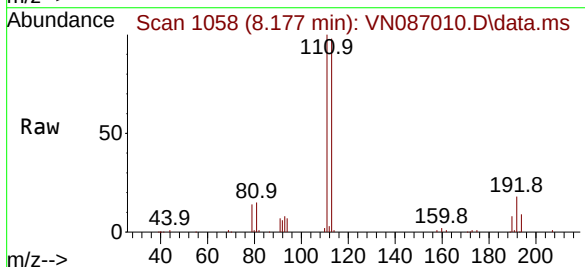
Tgt Ion:113 Resp: 159901

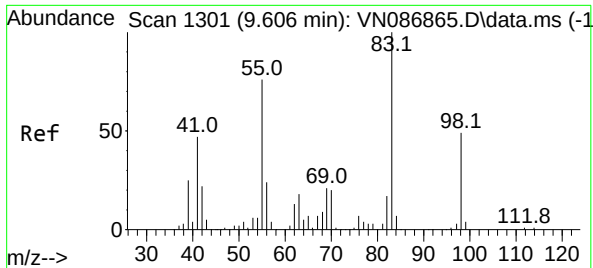
Ion Ratio Lower Upper

113 100

111 103.0 84.2 126.2

192 17.4 14.2 21.4





#39

Methylcyclohexane

Concen: 3.212 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN087010.D

Acq: 13 Jun 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605DL

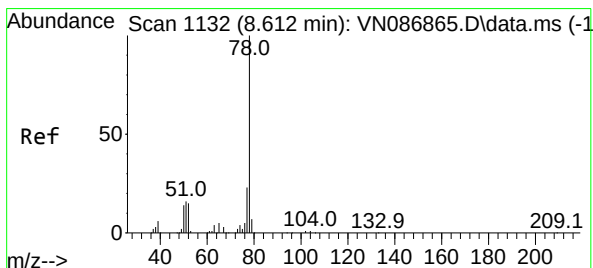
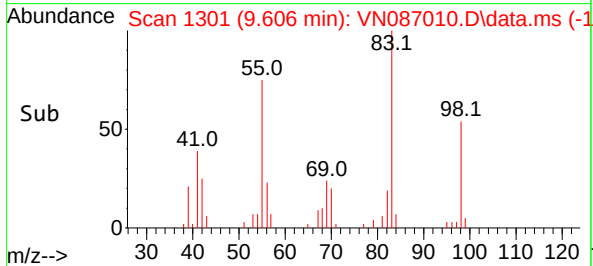
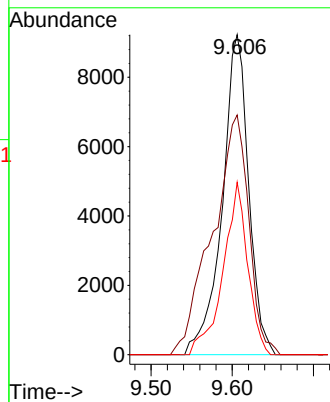
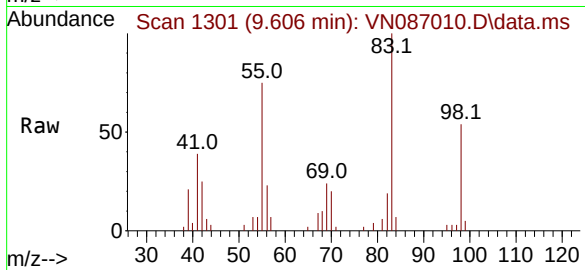
Tgt Ion: 83 Resp: 20825

Ion Ratio Lower Upper

83 100

55 74.9 61.0 91.6

98 53.9 38.9 58.3



#40

Benzene

Concen: 8.071 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN087010.D

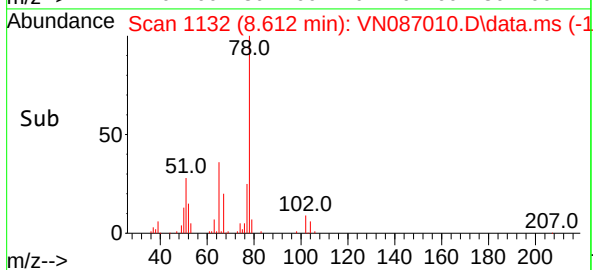
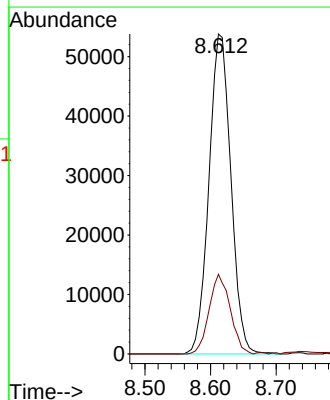
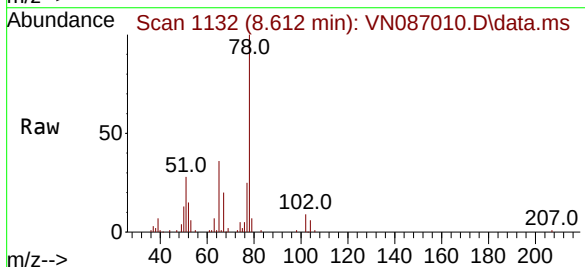
Acq: 13 Jun 2025 18:24

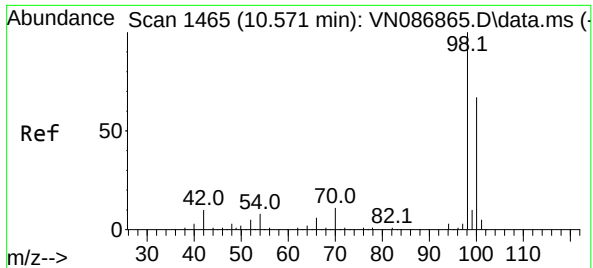
Tgt Ion: 78 Resp: 124882

Ion Ratio Lower Upper

78 100

77 24.9 18.7 28.1

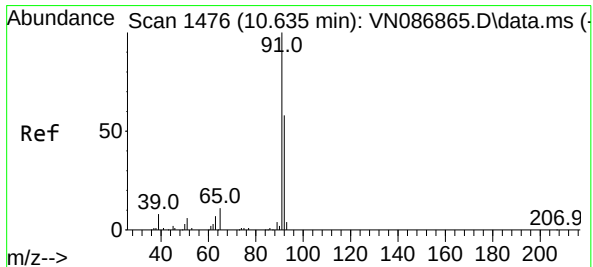
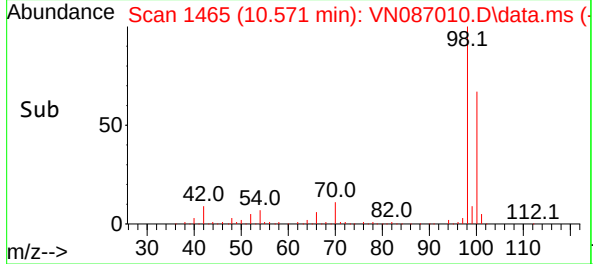
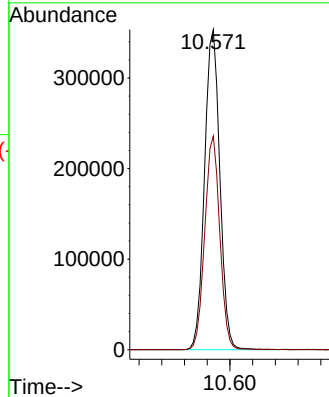
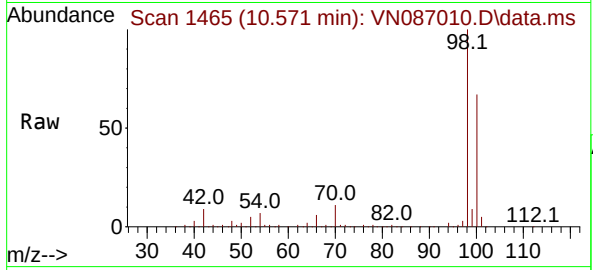




#50
Toluene-d8
Concen: 52.507 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

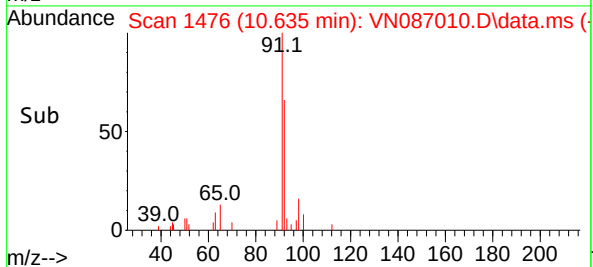
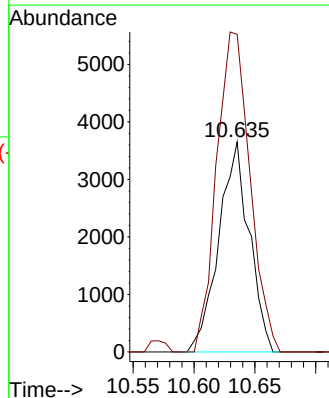
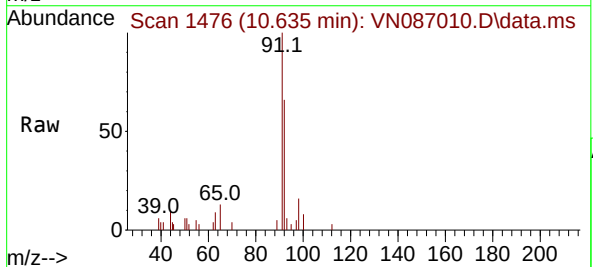
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

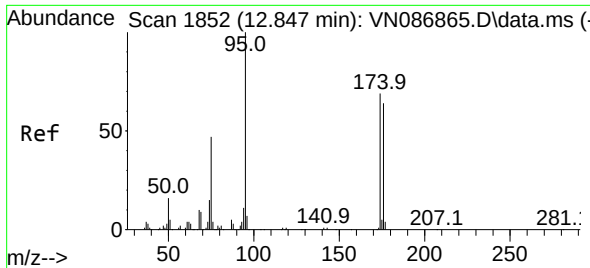
Tgt Ion: 98 Resp: 660051
Ion Ratio Lower Upper
98 100
100 65.5 53.4 80.0



#52
Toluene
Concen: 0.674 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion: 92 Resp: 6373
Ion Ratio Lower Upper
92 100
91 166.5 136.5 204.7

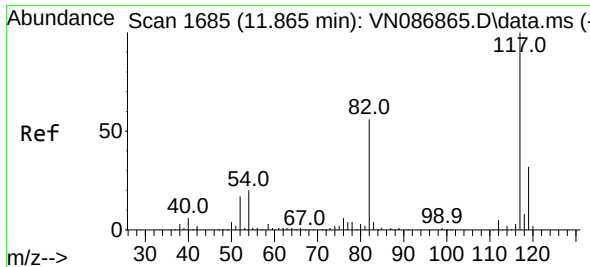
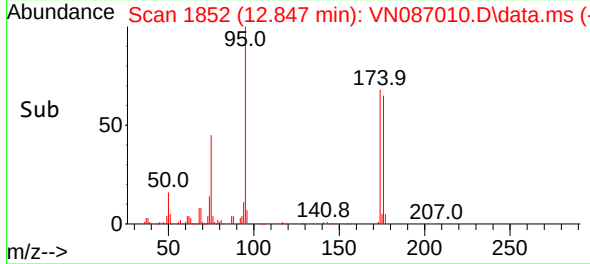
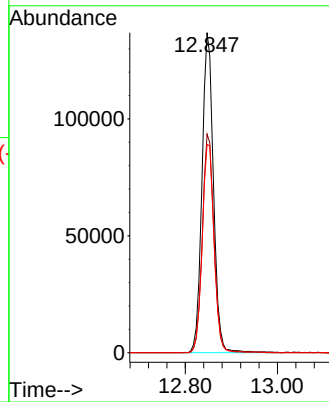
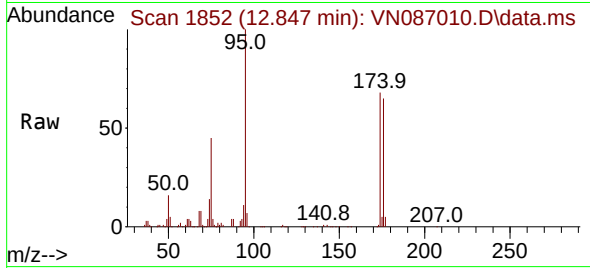




#62
4-Bromofluorobenzene
Concen: 50.888 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

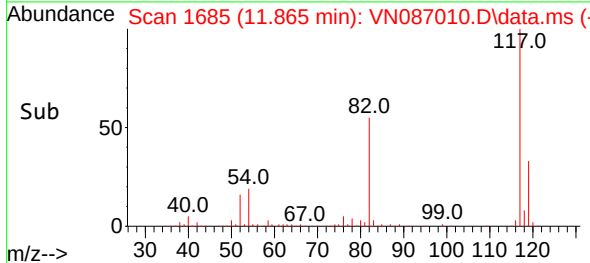
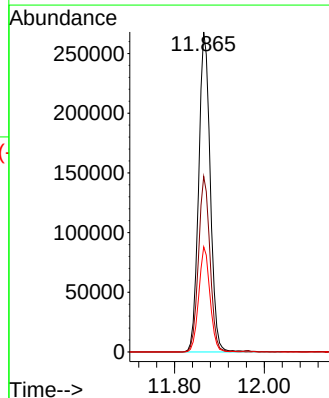
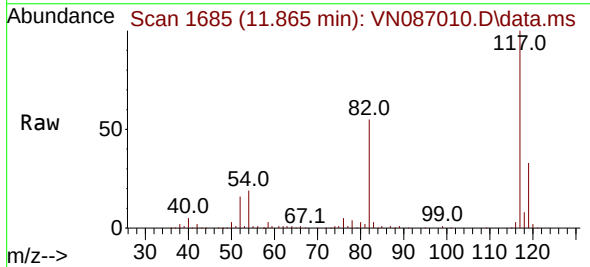
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

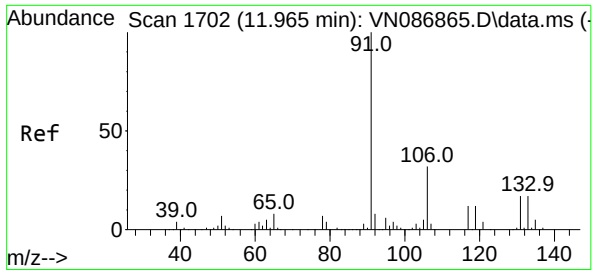
Tgt Ion: 95 Resp: 237664
Ion Ratio Lower Upper
95 100
174 69.3 0.0 141.8
176 67.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion: 117 Resp: 478755
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 32.9 25.5 38.3

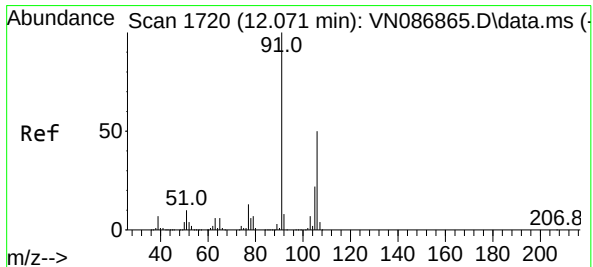
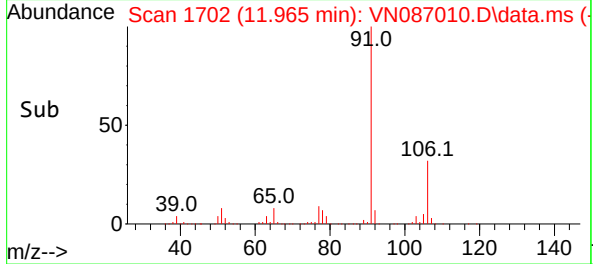
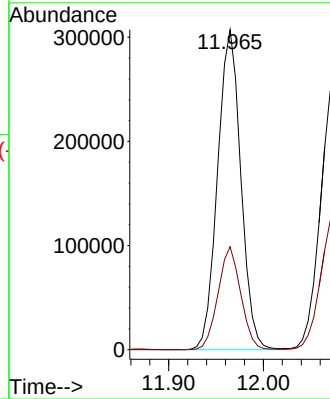
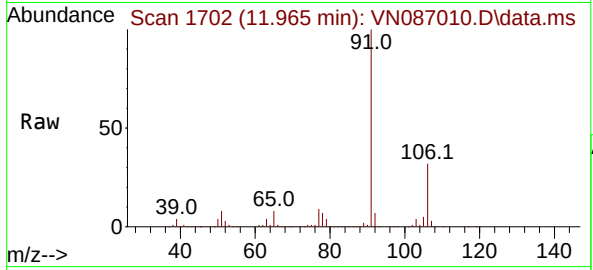




#67
Ethyl Benzene
Concen: 28.811 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

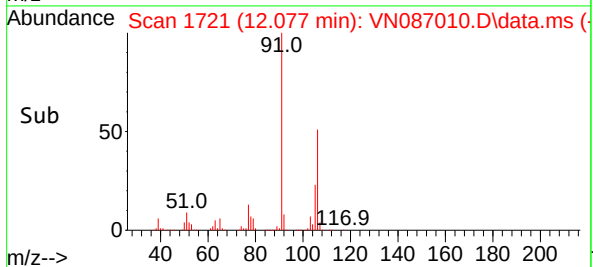
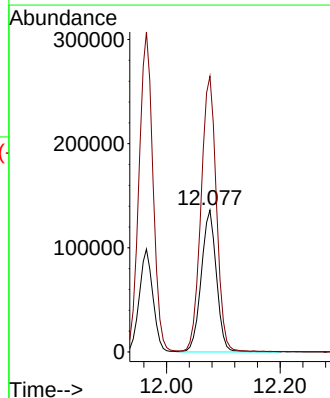
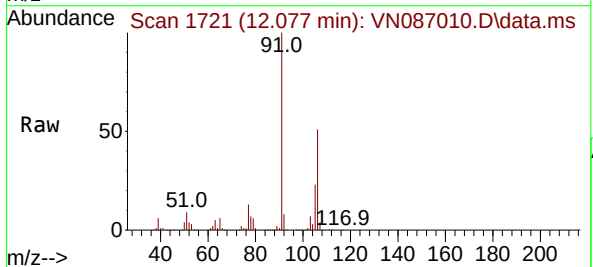
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

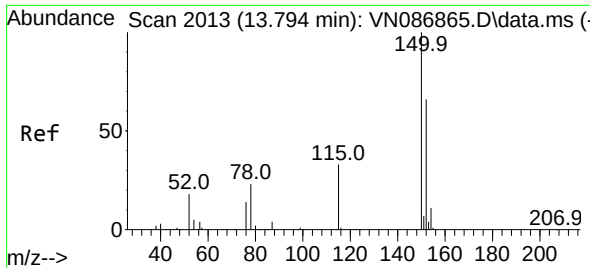
Tgt Ion: 91 Resp: 524008
Ion Ratio Lower Upper
91 100
106 32.2 25.4 38.2



#68
m/p-Xylenes
Concen: 36.267 ug/l
RT: 12.077 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion: 106 Resp: 252503
Ion Ratio Lower Upper
106 100
91 197.4 159.4 239.0

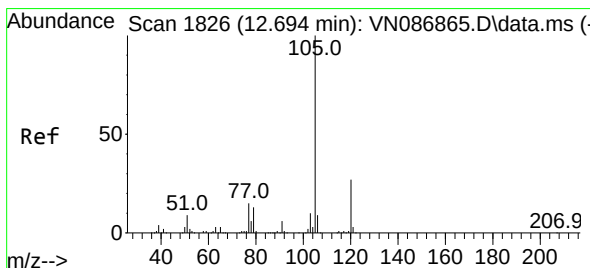
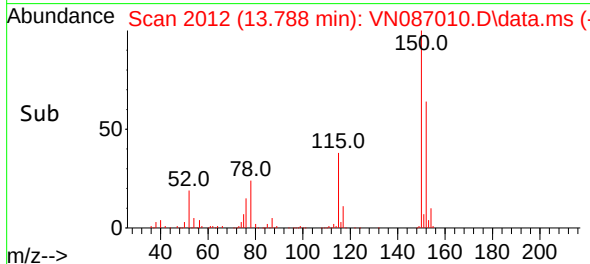
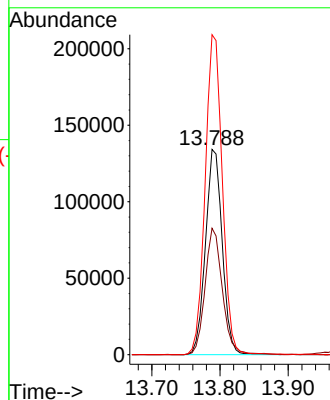
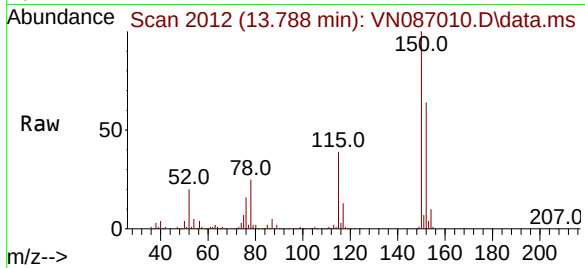




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

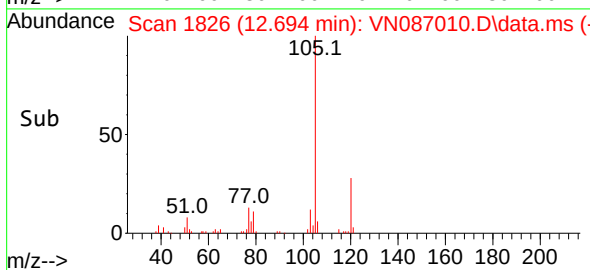
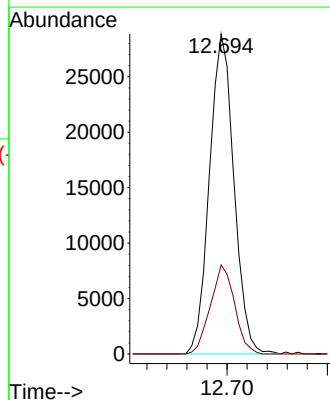
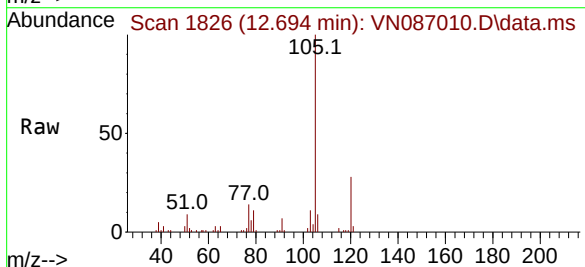
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

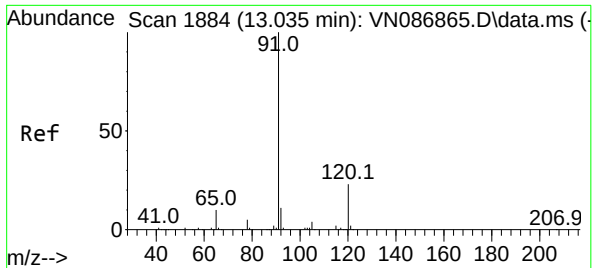
Tgt Ion:152 Resp: 229728
Ion Ratio Lower Upper
152 100
115 63.8 30.1 90.5
150 159.4 0.0 345.0



#73
Isopropylbenzene
Concen: 2.919 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion:105 Resp: 48850
Ion Ratio Lower Upper
105 100
120 27.4 13.5 40.4

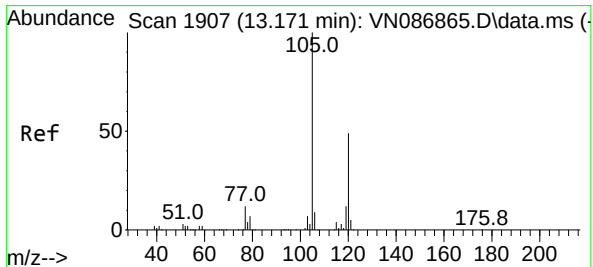
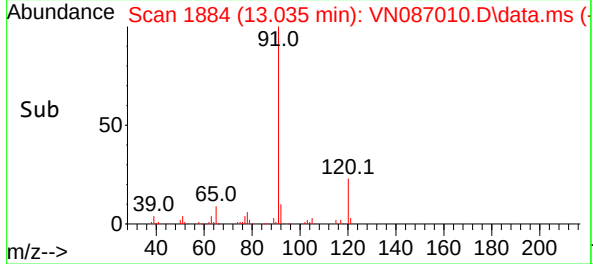
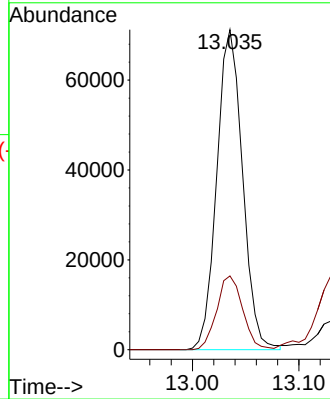
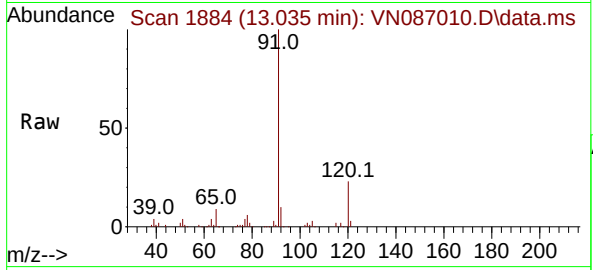




#78
n-propylbenzene
Concen: 5.874 ug/l
RT: 13.035 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

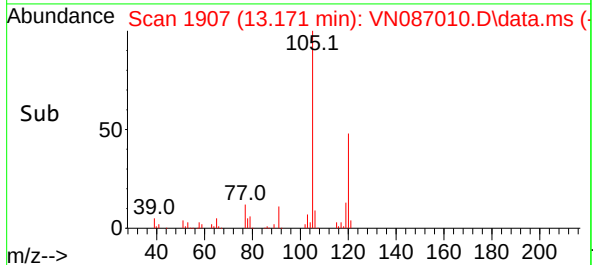
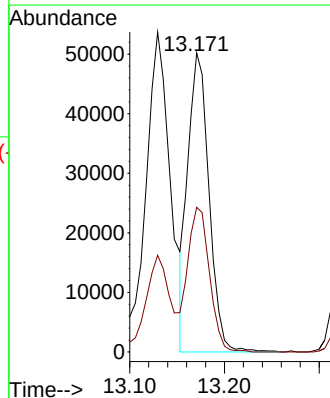
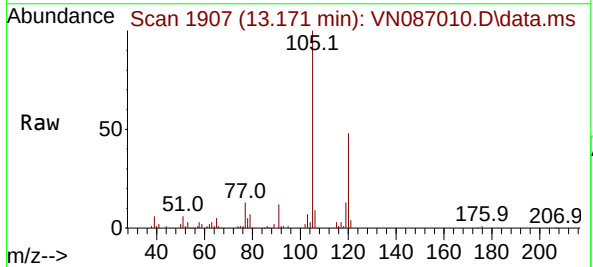
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

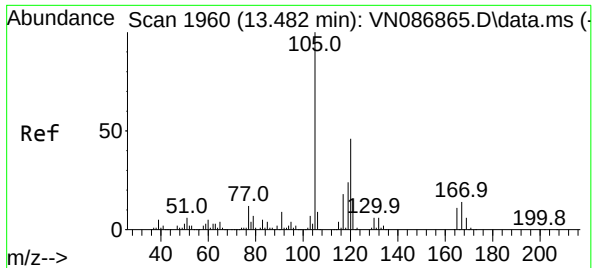
Tgt Ion: 91 Resp: 119469
Ion Ratio Lower Upper
91 100
120 23.3 11.4 34.2



#80
1,3,5-Trimethylbenzene
Concen: 5.640 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion: 105 Resp: 77932
Ion Ratio Lower Upper
105 100
120 52.2 24.9 74.6

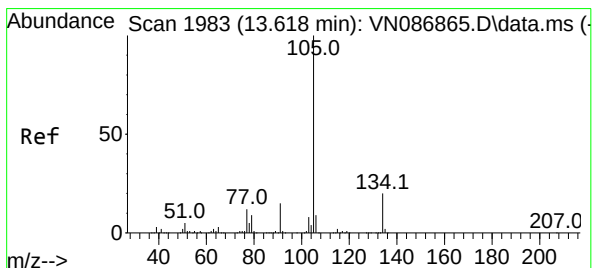
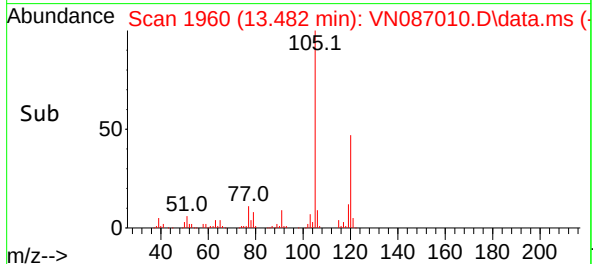
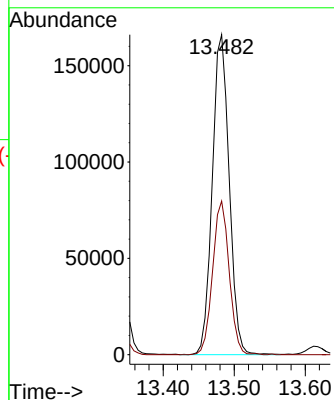
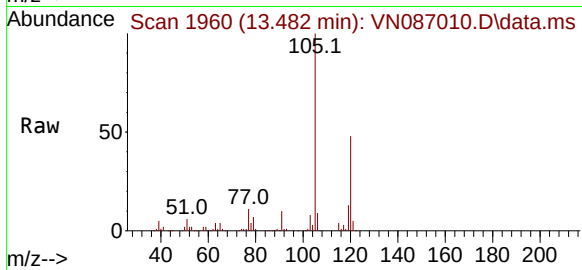




#84
1,2,4-Trimethylbenzene
Concen: 19.787 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

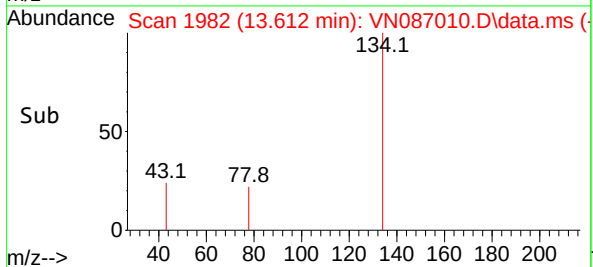
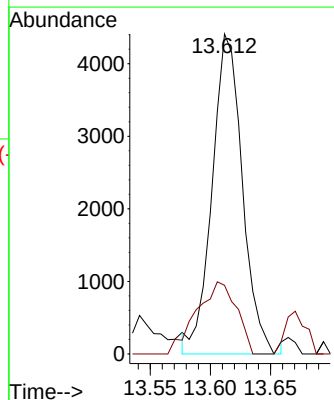
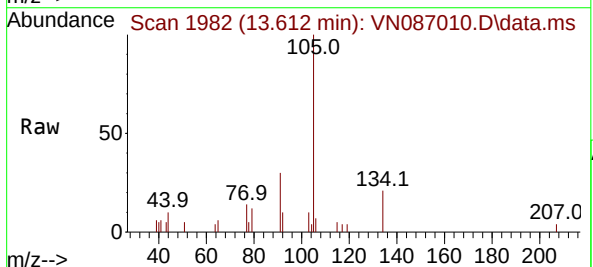
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605DL

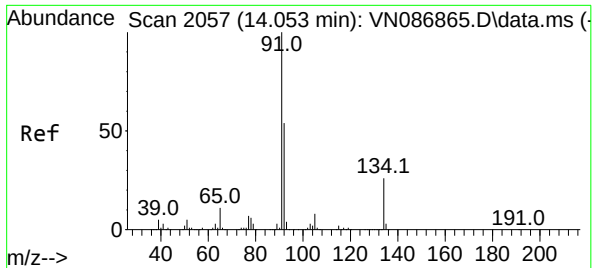
Tgt Ion:105 Resp: 274162
Ion Ratio Lower Upper
105 100
120 47.1 23.2 69.6



#85
sec-Butylbenzene
Concen: 0.420 ug/l m
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN087010.D
Acq: 13 Jun 2025 18:24

Tgt Ion:105 Resp: 7719
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0#





#89

n-Butylbenzene

Concen: 0.457 ug/l m

RT: 14.053 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN087010.D

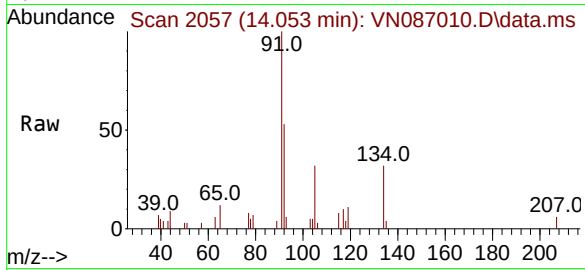
Acq: 13 Jun 2025 18:24

Instrument :

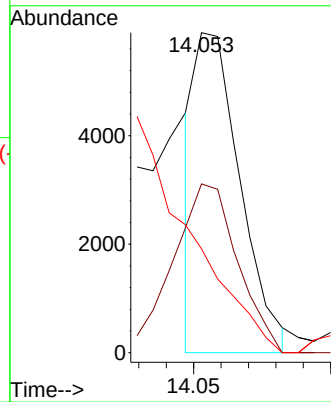
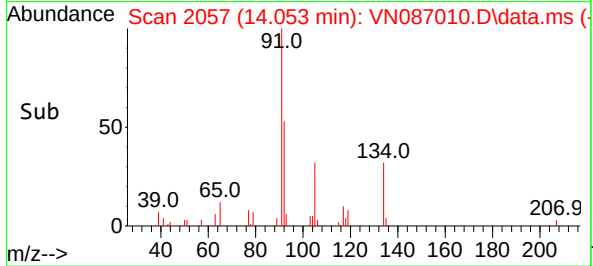
MSVOA_N

ClientSampleId :

MW-2-20250605DL



Tgt Ion:	91	Resp:	6726
Ion	Ratio	Lower	Upper
91	100		
92	0.0	27.5	82.4#
134	0.0	13.0	39.0#



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-2-20250605-A		SDG No.:	Q2268	
Lab Sample ID:	Q2268-06		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086988.D	1		06/12/25 19:18	VN061225

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	31.8		1.50	5.00	ug/L
78-93-3	2-Butanone	12.3		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	UQ	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	30.9		0.16	1.00	ug/L
71-43-2	Benzene	76.6		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	UQ	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	6.10		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-2-20250605-A			SDG No.:	Q2268
Lab Sample ID:	Q2268-06			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086988.D	1		06/12/25 19:18	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	UQ	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	UQ	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	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	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	280	E	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	350	E	0.24	2.00	ug/L
95-47-6	o-Xylene	2.50		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	UQ	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	30.1		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	UQ	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	UQ	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	51.7		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	52.0		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	288000	8.236			
540-36-3	1,4-Difluorobenzene	564000	9.106			
3114-55-4	Chlorobenzene-d5	500000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	235000	13.788			

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-2-20250605-A			SDG No.:	Q2268
Lab Sample ID:	Q2268-06			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086988.D	1		06/12/25 19:18	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000078-78-4	Butane, 2-methyl-	24.6	J		3.28	ug/L
000107-83-5	Pentane, 2-methyl-	32.0	J		5.37	ug/L
000096-14-0	Pentane, 3-methyl-	43.9	J		5.84	ug/L
000096-37-7	Cyclopentane, methyl-	55.7	J		7.34	ug/L
074752-93-5	unknown8.788	24.7	J		8.79	ug/L
103-65-1	n-propylbenzene	60.6	J		13.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	54.6	J		13.2	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	27.5	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	200	J		13.5	ug/L
135-98-8	sec-Butylbenzene	3.40	J		13.6	ug/L
99-87-6	p-Isopropyltoluene	0.98	J		13.7	ug/L
000496-11-7	Indane	85.7	J		14.0	ug/L
104-51-8	n-Butylbenzene	5.20	J		14.1	ug/L
000767-58-8	Indan, 1-methyl-	21.8	J		14.4	ug/L
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	33.8	J		15.1	ug/L
000275-51-4	Azulene	65.8	J		15.6	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086988.D
 Acq On : 12 Jun 2025 19:18
 Operator : JC\MD
 Sample : Q2268-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605-A

Quant Time: Jun 13 01:33:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

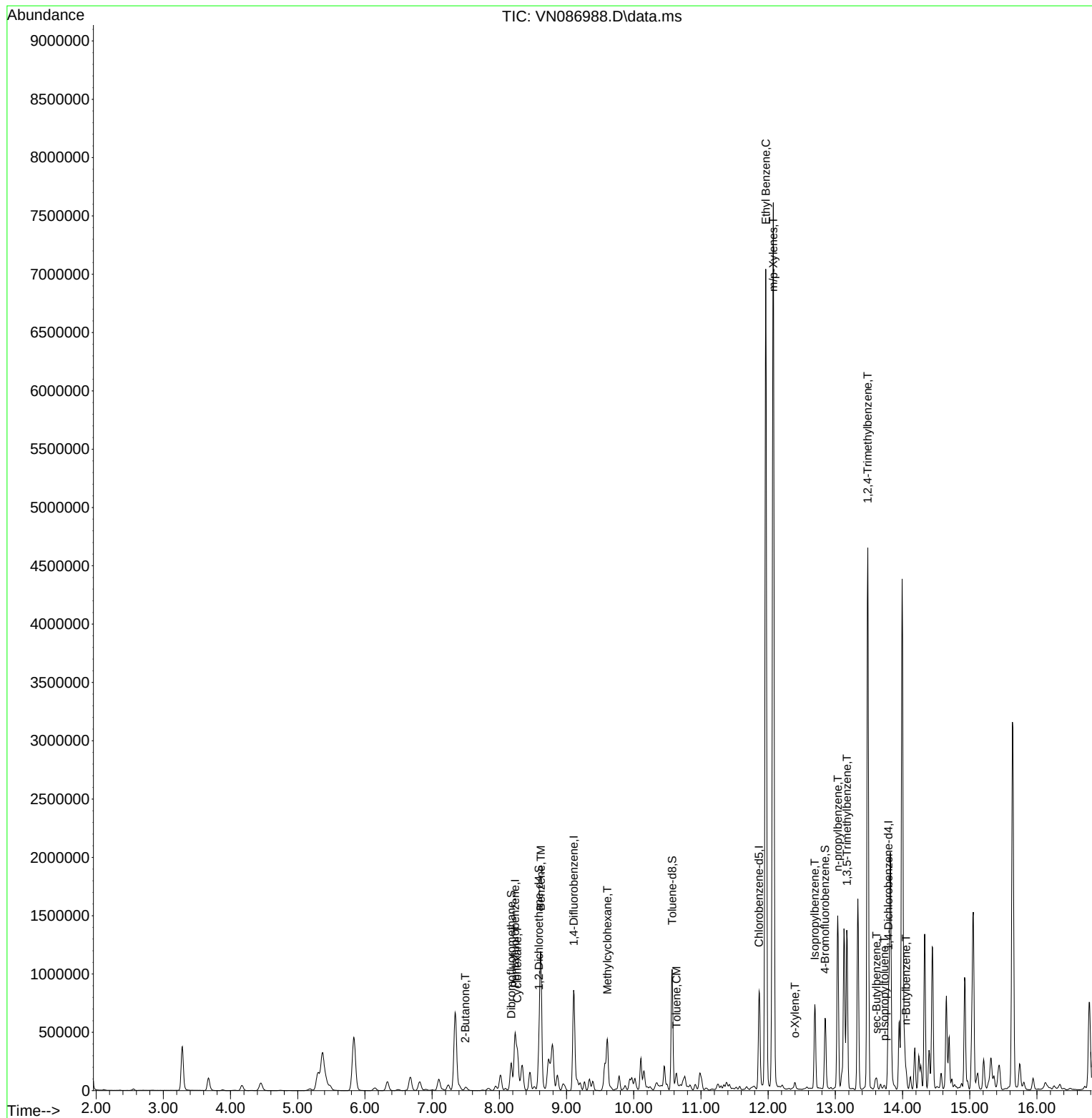
Internal Standards						
1) Pentafluorobenzene	8.236	168	287973	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	564200	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	499730	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	234750	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	199265	51.681	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.360%			
35) Dibromofluoromethane	8.177	113	170594	51.021	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.040%			
50) Toluene-d8	10.571	98	687658	51.952	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	12.847	95	244178	49.653	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.300%			
Target Compounds					Qvalue	
25) 2-Butanone	7.494	43	40924	12.313	ug/l	95
31) Cyclohexane	8.265	56	198668	31.769	ug/l #	93
39) Methylcyclohexane	9.606	83	210594	30.852	ug/l	99
40) Benzene	8.618	78	1248475	76.630	ug/l	100
52) Toluene	10.635	92	61225	6.149	ug/l	98
67) Ethyl Benzene	11.965	91	5368916	282.802	ug/l	99
68) m/p-Xylenes	12.076	106	2551247	351.056	ug/l	99
69) o-Xylene	12.400	106	17388	2.498	ug/l	97
73) Isopropylbenzene	12.694	105	515241	30.128	ug/l	100
78) n-propylbenzene	13.035	91	1260141	60.633	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	770291	54.555	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	2766381	195.386	ug/l	99
85) sec-Butylbenzene	13.612	105	63494m	3.383	ug/l	
86) p-Isopropyltoluene	13.729	119	15257	0.983	ug/l #	78
89) n-Butylbenzene	14.053	91	78347	5.213	ug/l #	81

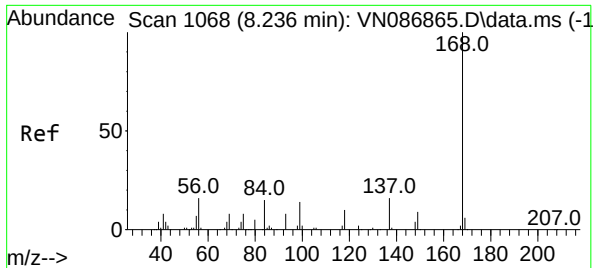
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

Quant Time: Jun 13 01:33:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

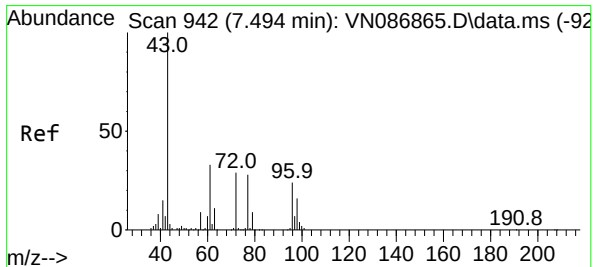
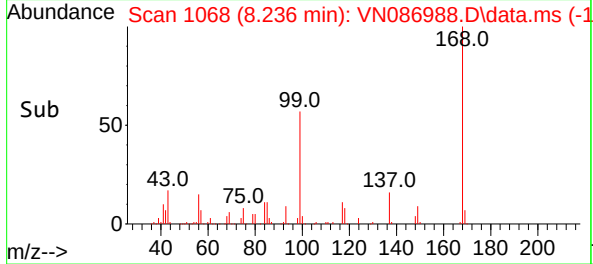
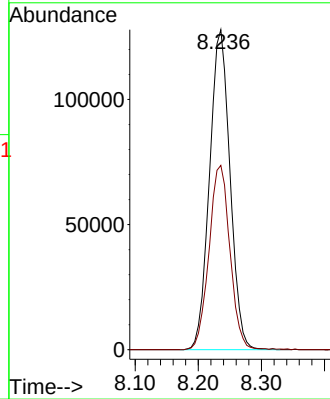
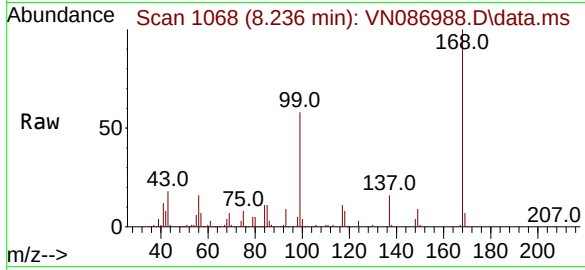




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

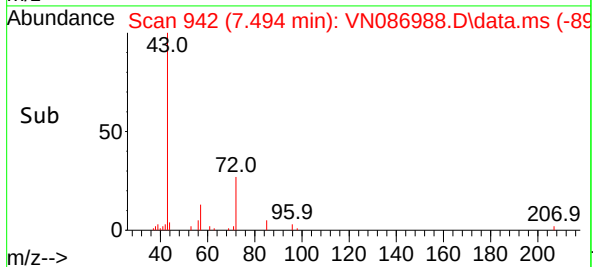
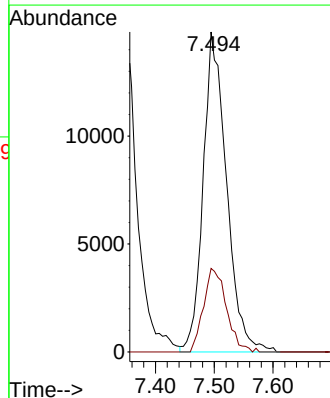
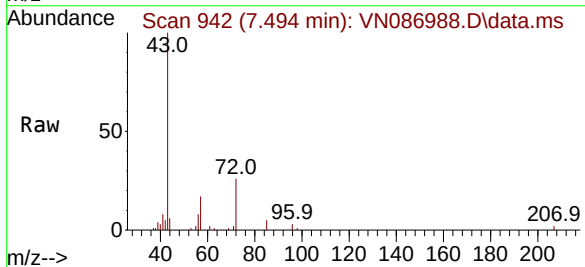
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

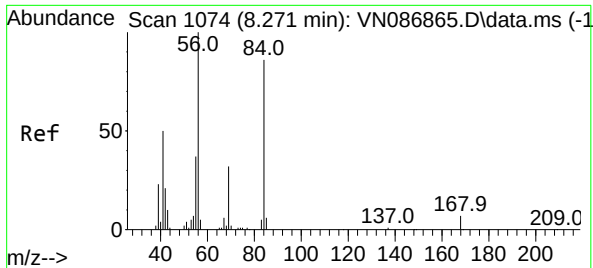
Tgt Ion:168 Resp: 287973
Ion Ratio Lower Upper
168 100
99 57.6 49.1 73.7



#25
2-Butanone
Concen: 12.313 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion: 43 Resp: 40924
Ion Ratio Lower Upper
43 100
72 26.1 23.0 34.6

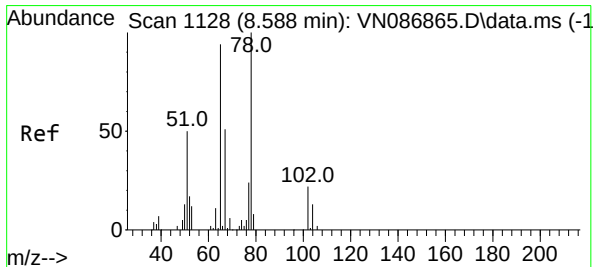
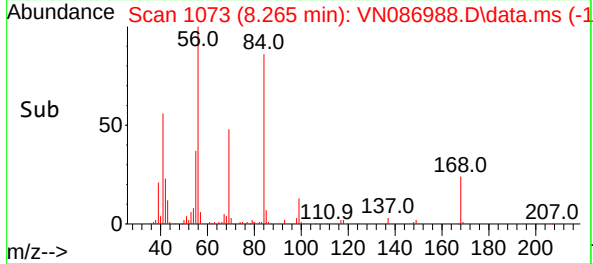
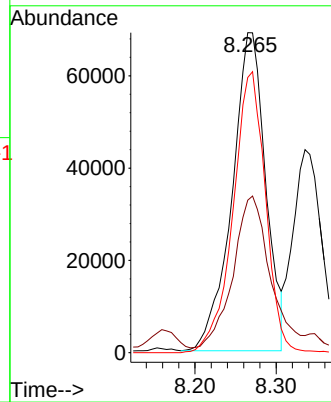
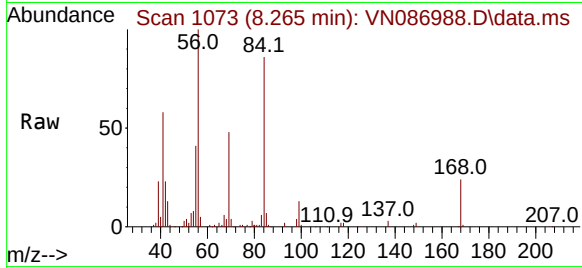




#31
Cyclohexane
Concen: 31.769 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

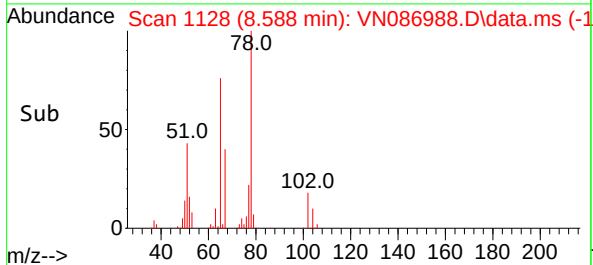
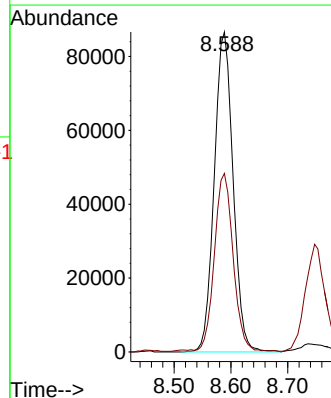
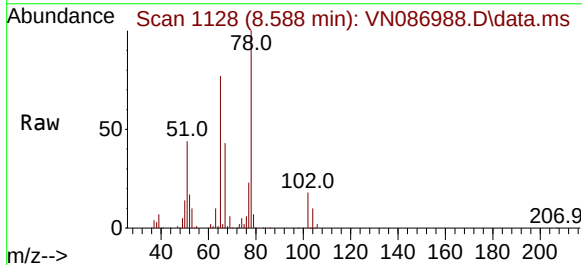
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

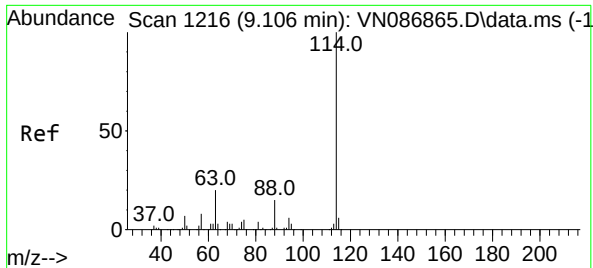
Tgt Ion: 56 Resp: 198668
Ion Ratio Lower Upper
56 100
69 44.8 25.4 38.0#
84 86.5 68.8 103.2



#33
1,2-Dichloroethane-d4
Concen: 51.681 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion: 65 Resp: 199265
Ion Ratio Lower Upper
65 100
67 56.1 0.0 105.6

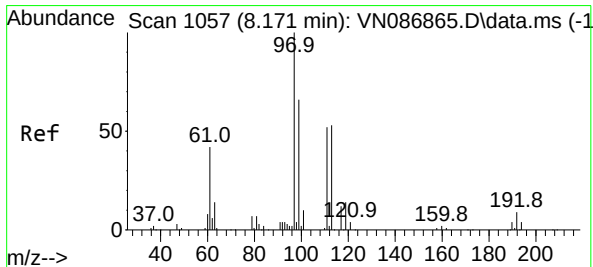
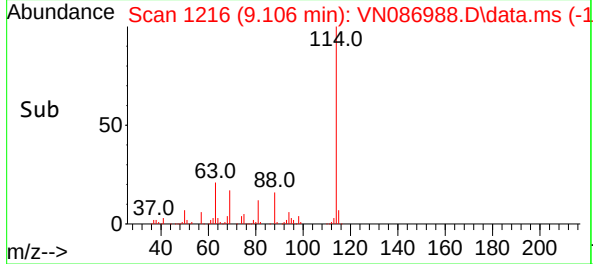
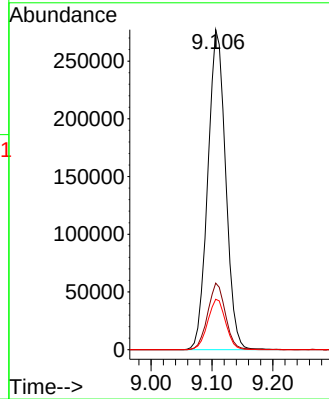
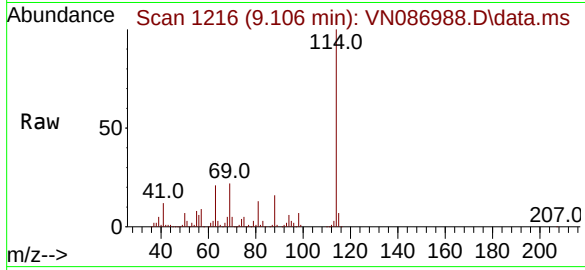




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

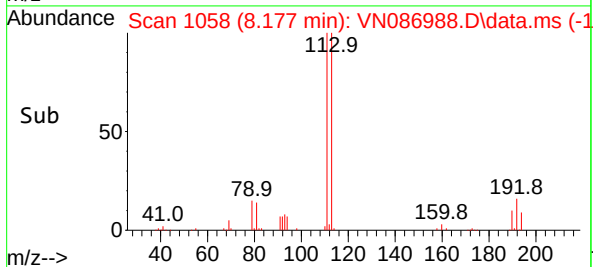
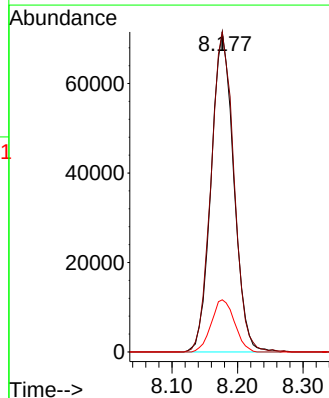
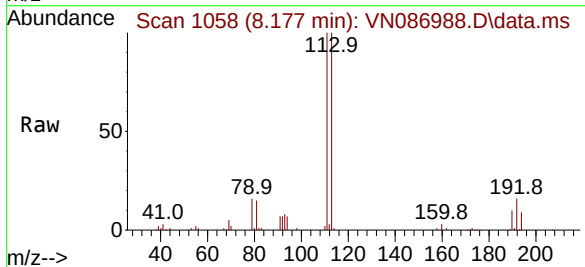
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

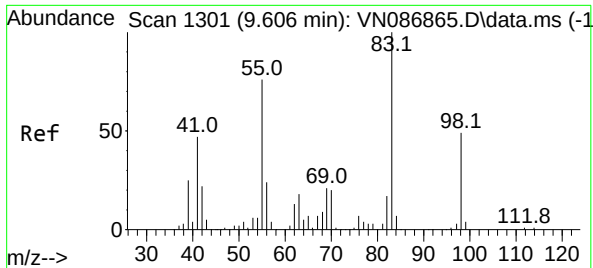
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	39.6
88	15.8	0.0	30.2



#35
Dibromofluoromethane
Concen: 51.021 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	84.2	126.2
192	16.8	14.2	21.4





#39

Methylcyclohexane

Concen: 30.852 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086988.D

Acq: 12 Jun 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605-A

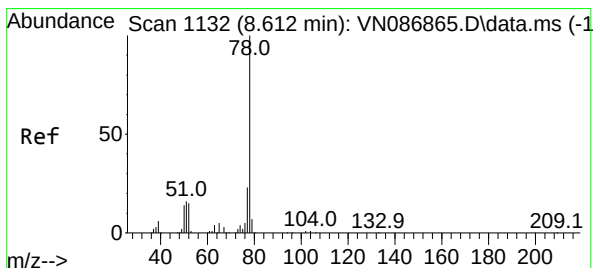
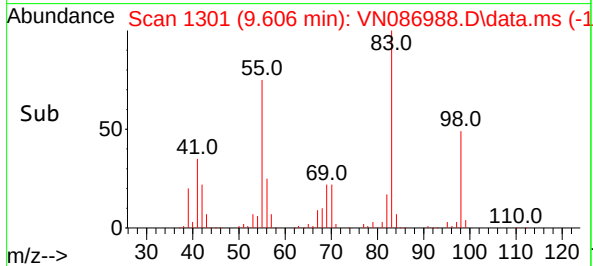
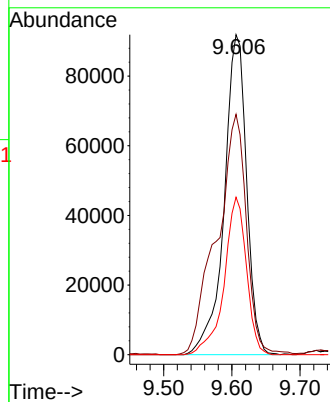
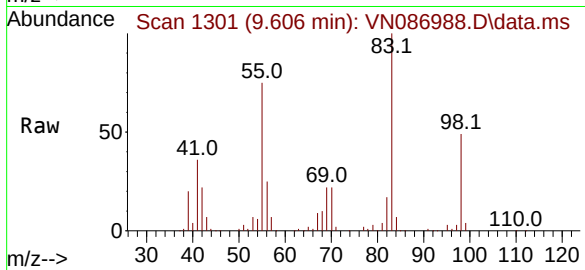
Tgt Ion: 83 Resp: 210594

Ion Ratio Lower Upper

83 100

55 74.8 61.0 91.6

98 49.2 38.9 58.3



#40

Benzene

Concen: 76.630 ug/l

RT: 8.618 min Scan# 1133

Delta R.T. 0.006 min

Lab File: VN086988.D

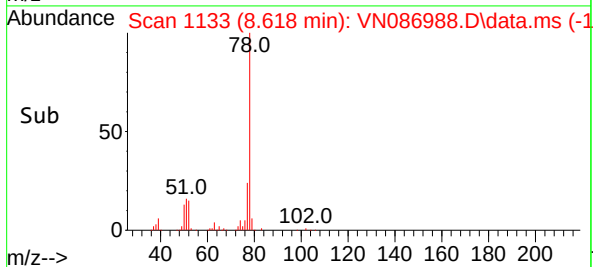
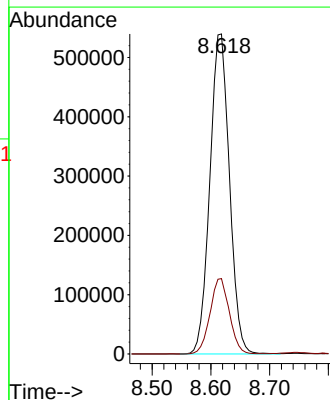
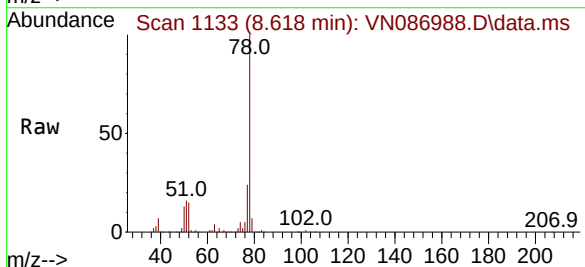
Acq: 12 Jun 2025 19:18

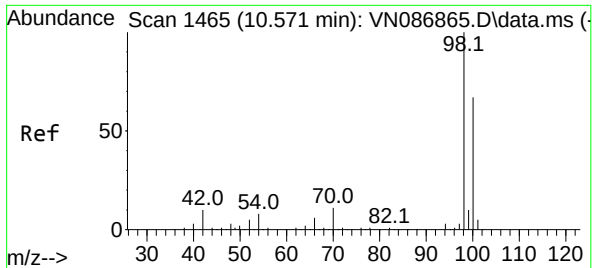
Tgt Ion: 78 Resp: 1248475

Ion Ratio Lower Upper

78 100

77 23.6 18.7 28.1

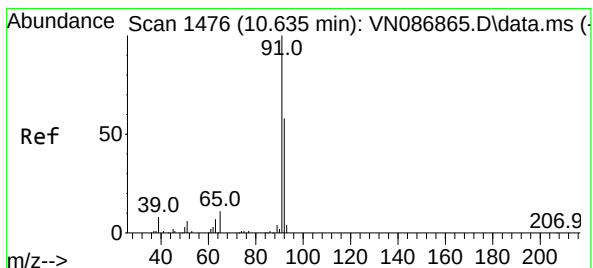
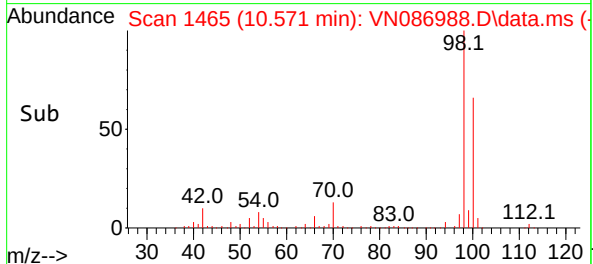
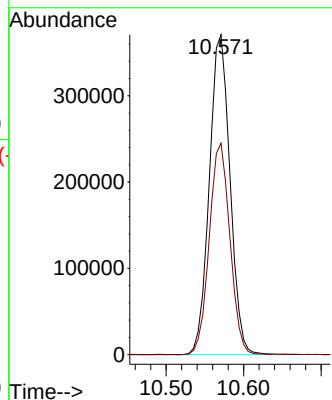
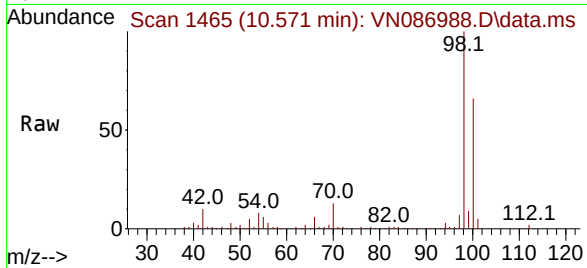




#50
Toluene-d8
Concen: 51.952 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

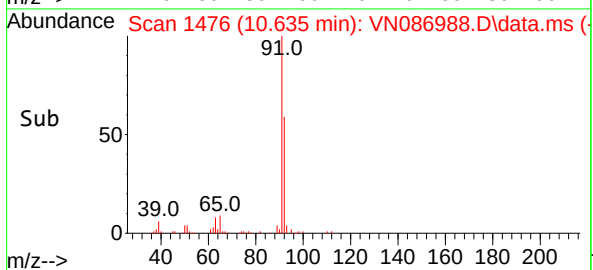
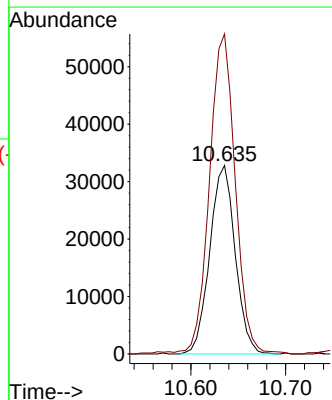
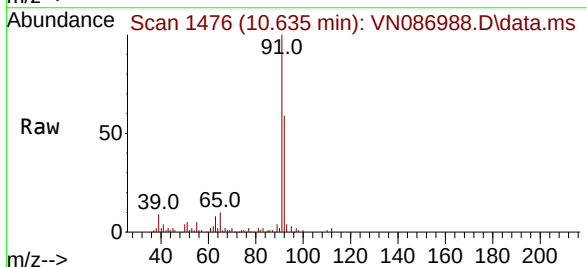
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

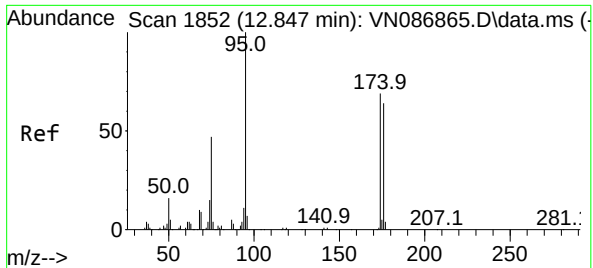
Tgt Ion: 98 Resp: 687658
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0



#52
Toluene
Concen: 6.149 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion: 92 Resp: 61225
Ion Ratio Lower Upper
92 100
91 173.0 136.5 204.7

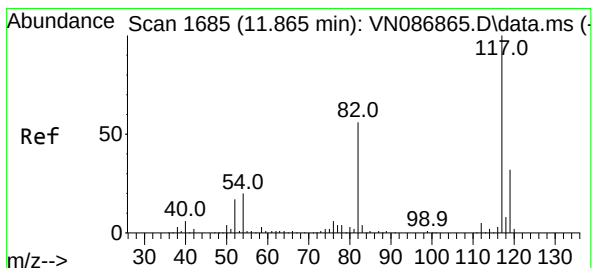
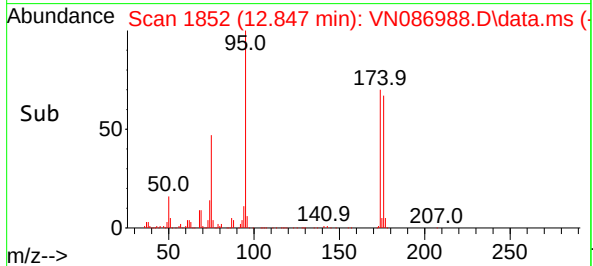
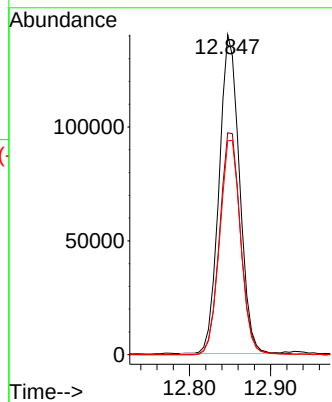
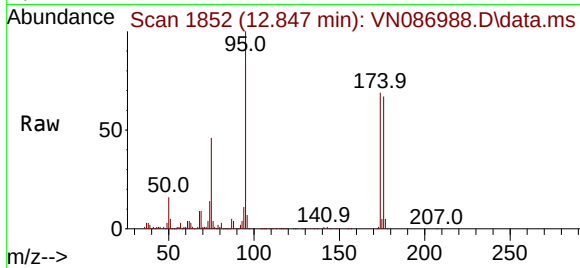




#62
4-Bromofluorobenzene
Concen: 49.653 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

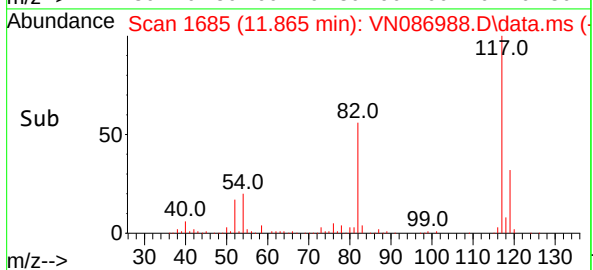
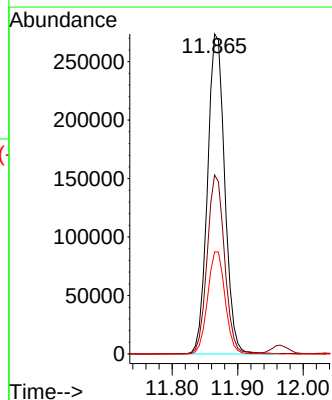
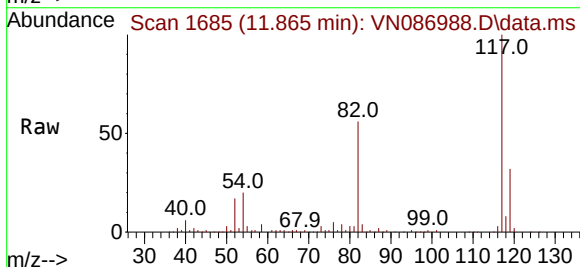
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

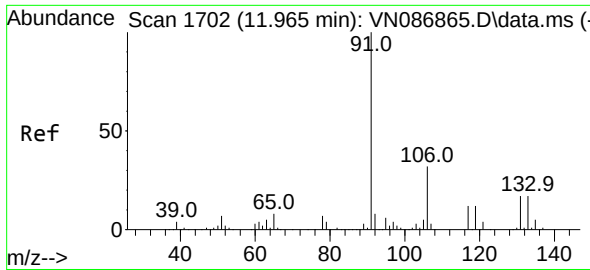
Tgt Ion: 95 Resp: 244178
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.8
176 69.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion: 117 Resp: 499730
Ion Ratio Lower Upper
117 100
82 55.8 44.6 67.0
119 31.9 25.5 38.3





#67

Ethyl Benzene

Concen: 282.802 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086988.D

Acq: 12 Jun 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

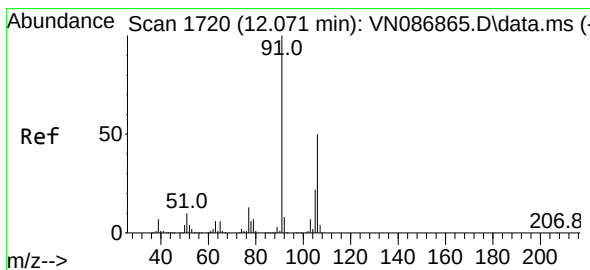
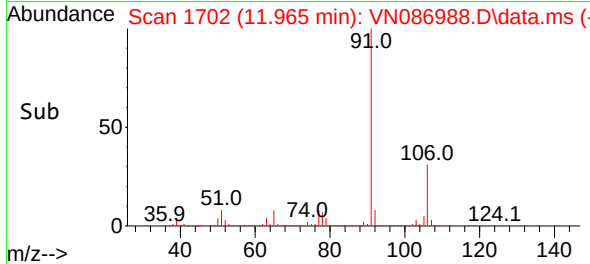
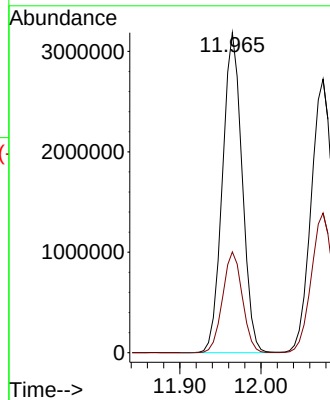
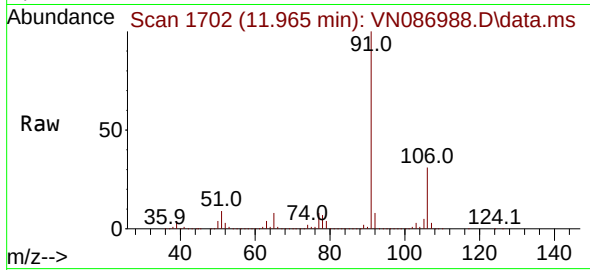
MW-2-20250605-A

Tgt Ion: 91 Resp: 5368916

Ion Ratio Lower Upper

91 100

106 31.5 25.4 38.2



#68

m/p-Xylenes

Concen: 351.056 ug/l

RT: 12.076 min Scan# 1721

Delta R.T. 0.006 min

Lab File: VN086988.D

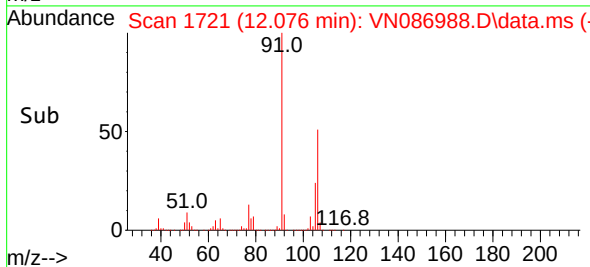
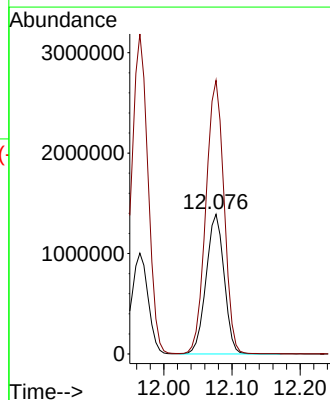
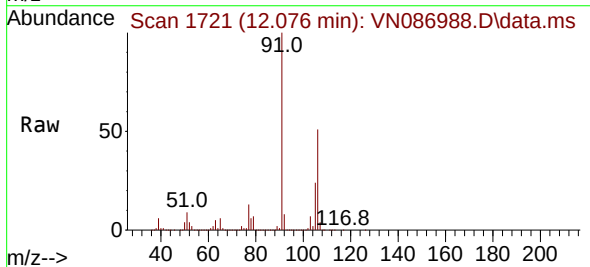
Acq: 12 Jun 2025 19:18

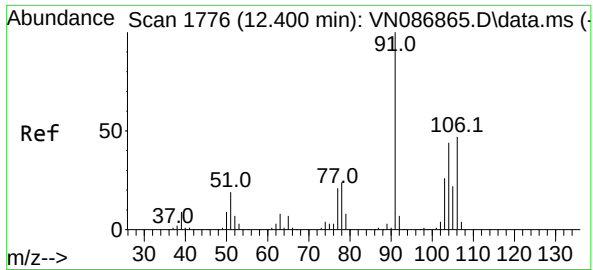
Tgt Ion:106 Resp: 2551247

Ion Ratio Lower Upper

106 100

91 197.6 159.4 239.0





#69

o-Xylene

Concen: 2.498 ug/l

RT: 12.400 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086988.D

Acq: 12 Jun 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

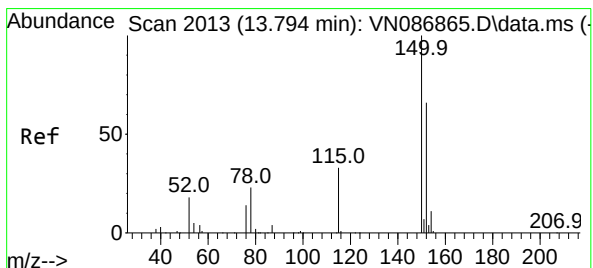
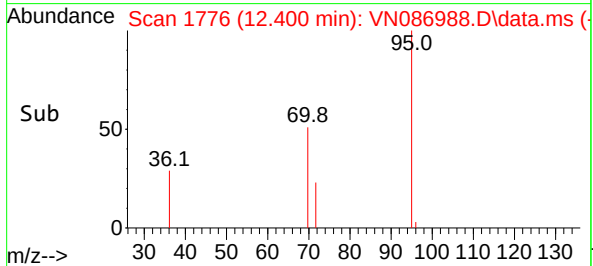
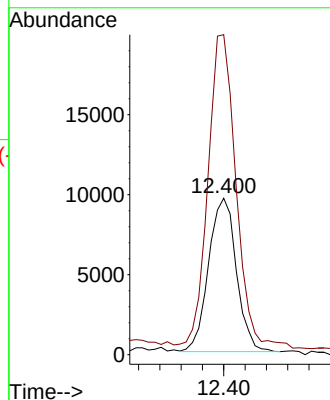
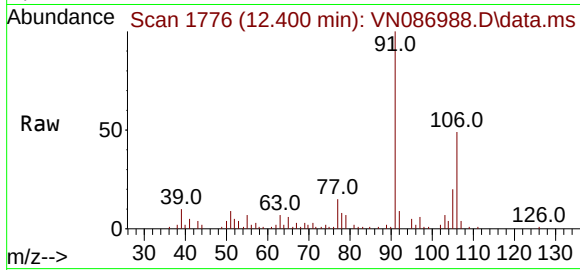
MW-2-20250605-A

Tgt Ion:106 Resp: 17388

Ion Ratio Lower Upper

106 100

91 207.9 106.1 318.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086988.D

Acq: 12 Jun 2025 19:18

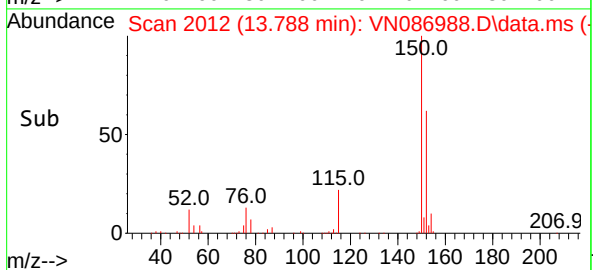
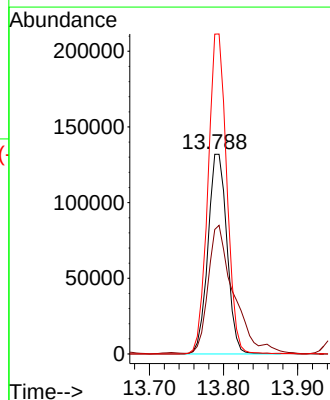
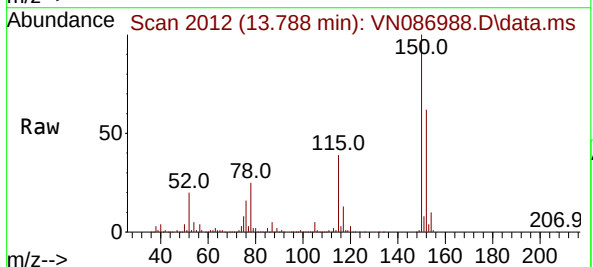
Tgt Ion:152 Resp: 234750

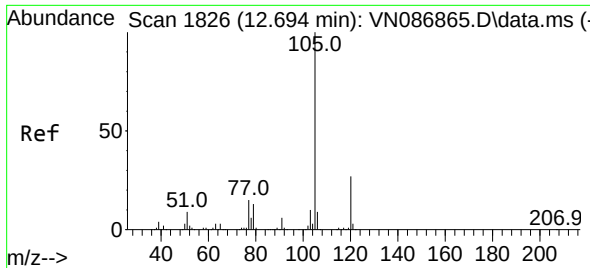
Ion Ratio Lower Upper

152 100

115 86.5 30.1 90.5

150 158.5 0.0 345.0

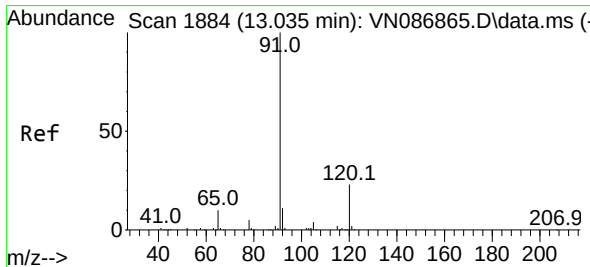
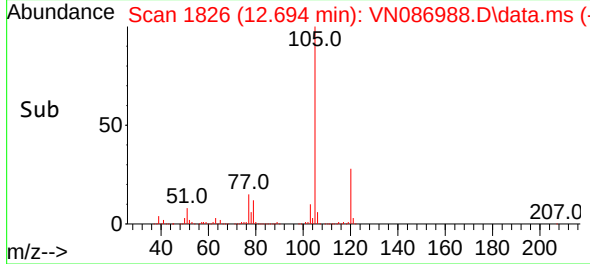
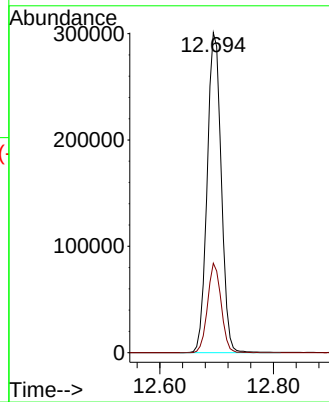
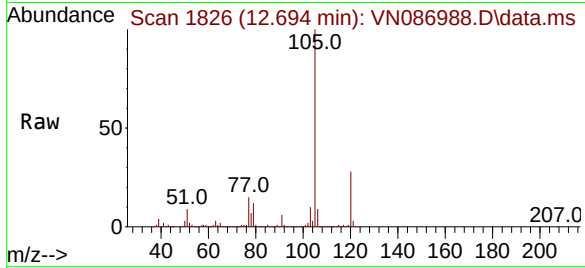




#73
Isopropylbenzene
Concen: 30.128 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

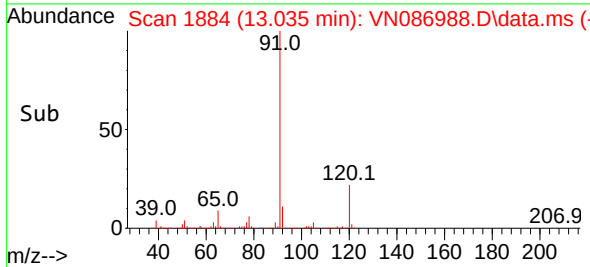
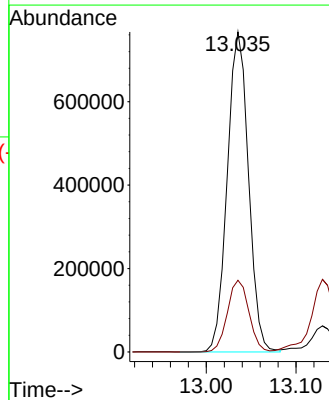
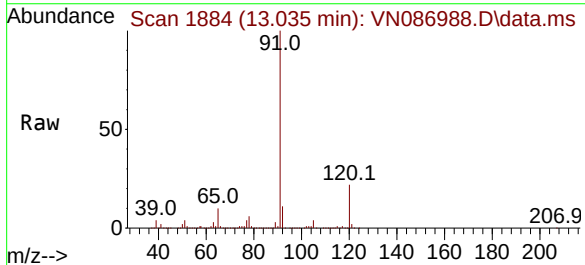
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

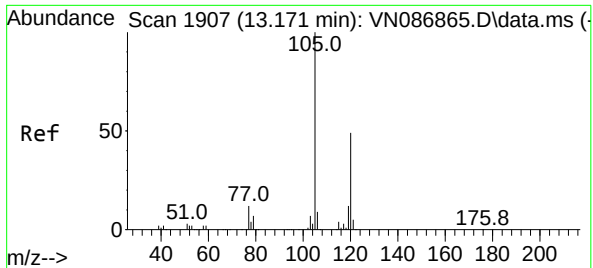
Tgt Ion:105 Resp: 515241
Ion Ratio Lower Upper
105 100
120 26.9 13.5 40.4



#78
n-propylbenzene
Concen: 60.633 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion: 91 Resp: 1260141
Ion Ratio Lower Upper
91 100
120 22.7 11.4 34.2

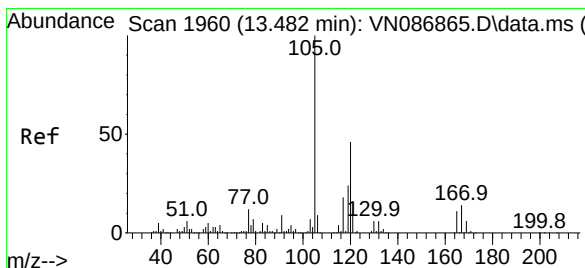
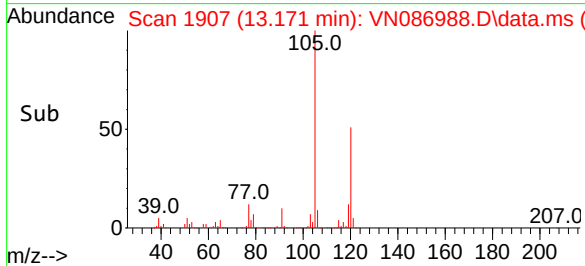
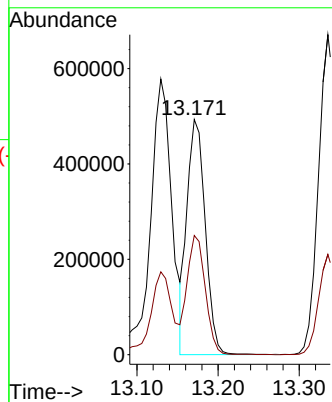
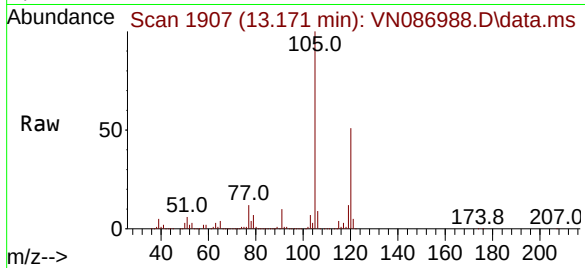




#80
1,3,5-Trimethylbenzene
Concen: 54.555 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

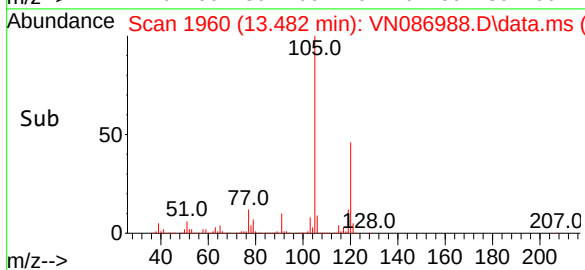
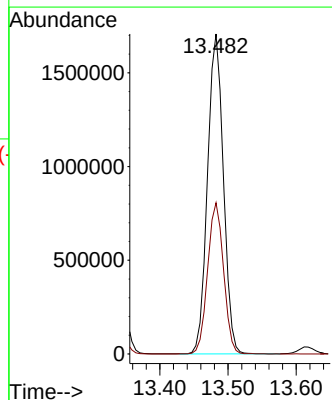
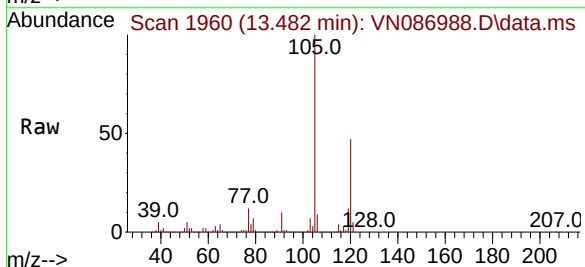
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

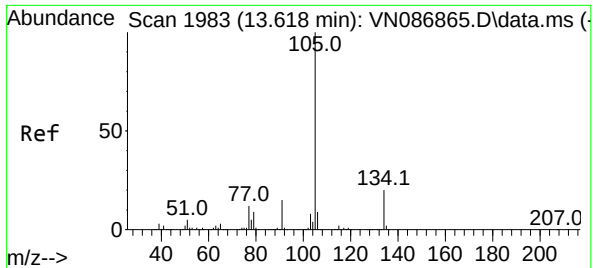
Tgt Ion:105 Resp: 770291
Ion Ratio Lower Upper
105 100
120 50.0 24.9 74.6



#84
1,2,4-Trimethylbenzene
Concen: 195.386 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086988.D
Acq: 12 Jun 2025 19:18

Tgt Ion:105 Resp: 2766381
Ion Ratio Lower Upper
105 100
120 47.4 23.2 69.6

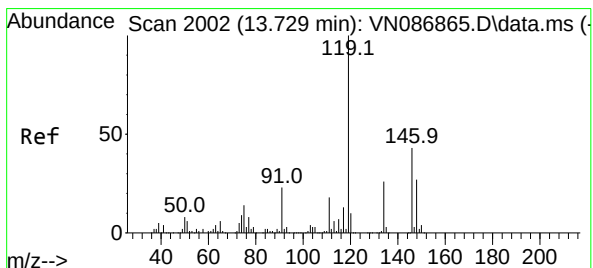
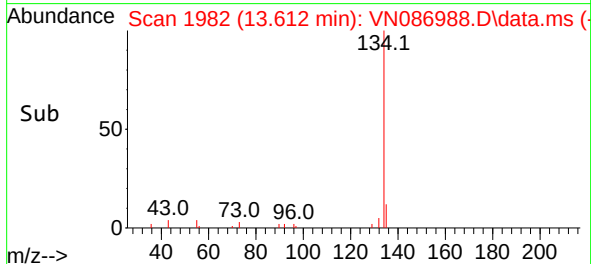
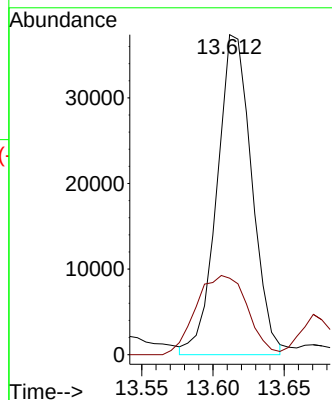
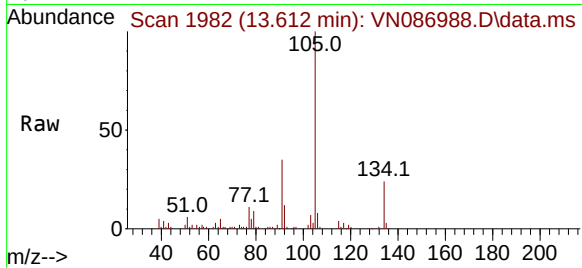




#85
 sec-Butylbenzene
 Concen: 3.383 ug/l m
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.006 min
 Lab File: VN086988.D
 Acq: 12 Jun 2025 19:18

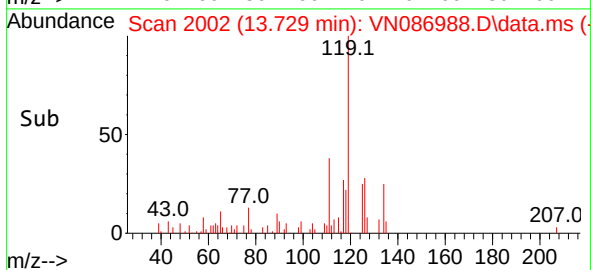
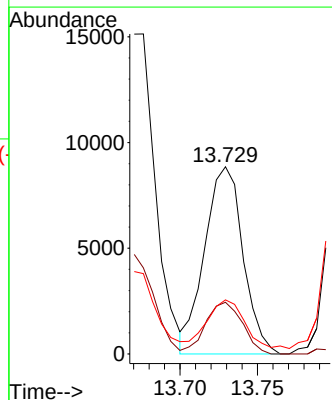
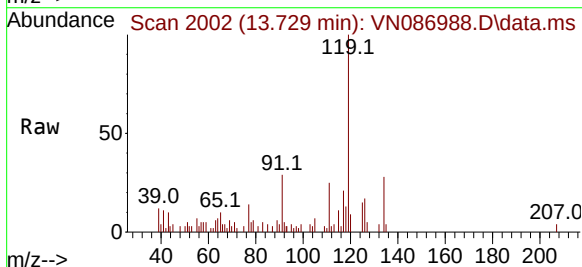
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605-A

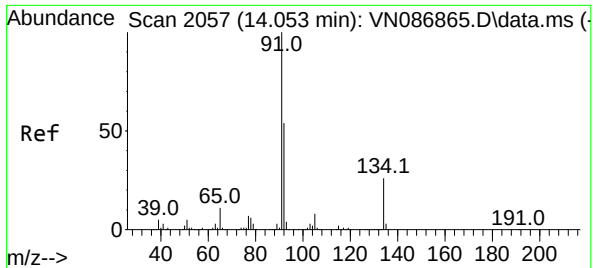
Tgt Ion:105 Resp: 63494
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 30.0#



#86
 p-Isopropyltoluene
 Concen: 0.983 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN086988.D
 Acq: 12 Jun 2025 19:18

Tgt Ion:119 Resp: 15257
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.5 40.4
 91 0.0 11.5 34.4#





#89

n-Butylbenzene

Concen: 5.213 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086988.D

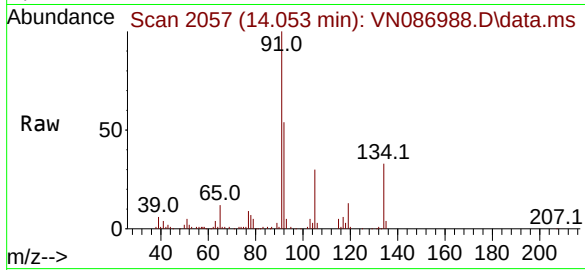
Acq: 12 Jun 2025 19:18

Instrument :

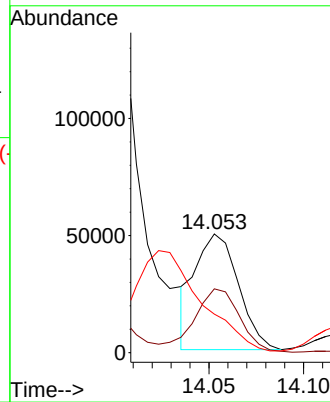
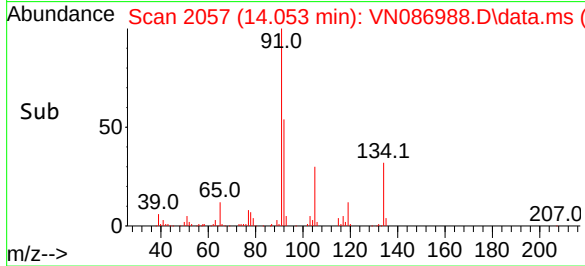
MSVOA_N

ClientSampleId :

MW-2-20250605-A



Tgt Ion:	91	Resp:	78347
Ion	Ratio	Lower	Upper
91	100		
92	57.8	27.5	82.4
134	0.0	13.0	39.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086988.D
 Acq On : 12 Jun 2025 19:18
 Operator : JC\MD
 Sample : Q2268-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605-A

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086988.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.283	216	226	248	rBV	373482	912144	6.50%	0.824%
2	3.671	281	292	309	rVB2	108541	298529	2.13%	0.270%
3	4.453	412	425	438	rBV3	64642	228716	1.63%	0.207%
4	5.306	556	570	572	rBV2	152929	445944	3.18%	0.403%
5	5.371	574	581	597	rVB5	288544	1188795	8.47%	1.073%
6	5.836	644	660	680	rBV2	456665	1629880	11.61%	1.472%
7	6.336	733	745	757	rVV3	75982	231669	1.65%	0.209%
8	6.677	787	803	814	rBV	113350	351604	2.51%	0.317%
9	6.818	816	827	837	rBV4	73327	235875	1.68%	0.213%
10	7.100	865	875	891	rBV3	95683	301633	2.15%	0.272%
11	7.341	906	916	937	rVV	669077	2065861	14.72%	1.865%
12	8.018	1023	1031	1039	rVB2	126216	321368	2.29%	0.290%
13	8.177	1049	1058	1062	rBV	230602	547816	3.90%	0.495%
14	8.236	1062	1068	1080	rVV2	488541	1854962	13.22%	1.675%
15	8.341	1080	1086	1096	rVB3	213673	561039	4.00%	0.507%
16	8.453	1096	1105	1112	rBV	152112	355285	2.53%	0.321%
17	8.612	1121	1132	1143	rBV2	1179379	3098912	22.08%	2.798%
18	8.736	1143	1153	1156	rVV5	257062	685087	4.88%	0.619%
19	8.788	1157	1162	1170	rVV4	385132	1047926	7.47%	0.946%
20	8.865	1170	1175	1183	rVB	126315	280814	2.00%	0.254%
21	8.953	1183	1190	1204	rVB4	58082	182776	1.30%	0.165%
22	9.106	1207	1216	1229	rBV3	860031	2122630	15.12%	1.917%
23	9.341	1249	1256	1260	rVV	96059	195201	1.39%	0.176%
24	9.388	1260	1264	1274	rVB	78318	160896	1.15%	0.145%
25	9.571	1282	1295	1296	rBV3	234739	412762	2.94%	0.373%
26	9.606	1297	1301	1318	rVB2	438264	978591	6.97%	0.884%
27	9.783	1318	1331	1337	rBV	120432	252805	1.80%	0.228%
28	9.941	1352	1358	1360	rBV2	89603	159977	1.14%	0.144%
29	10.018	1367	1371	1379	rVB2	94156	192726	1.37%	0.174%
30	10.106	1379	1386	1390	rBV	266166	505036	3.60%	0.456%
31	10.153	1390	1394	1400	rVB3	140114	269718	1.92%	0.244%
32	10.341	1417	1426	1434	rBV6	61738	221550	1.58%	0.200%
33	10.453	1440	1445	1450	rBV	168875	288844	2.06%	0.261%
34	10.571	1457	1465	1471	rBV	1029810	1938712	13.81%	1.750%
35	10.635	1471	1476	1483	rVB	111736	228120	1.63%	0.206%
36	10.759	1488	1497	1502	rVB5	87939	247643	1.76%	0.224%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086988.D
 Acq On : 12 Jun 2025 19:18
 Operator : JC\MD
 Sample : Q2268-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605-A

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\82N060625W.M
 Title : SW846 8260

37	10.982	1529	1535	1546	rVB3	142527	393835	2.81%	0.356%
38	11.865	1678	1685	1693	rBV	836209	1589935	11.33%	1.436%
39	11.965	1694	1702	1712	rVV	7019008	11897888	84.78%	10.743%
40	12.076	1712	1721	1733	rVB	7581183	14034062	100.00%	12.672%
41	12.694	1820	1826	1834	rBV	717812	1204918	8.59%	1.088%
42	12.847	1845	1852	1863	rBV	604664	1071690	7.64%	0.968%
43	13.035	1871	1884	1890	rBV	1485696	2477152	17.65%	2.237%
44	13.129	1890	1900	1904	rVV	1373708	2541827	18.11%	2.295%
45	13.171	1904	1907	1915	rVB	1359567	2105187	15.00%	1.901%
46	13.335	1927	1935	1945	rBV	1634808	2656403	18.93%	2.399%
47	13.482	1945	1960	1973	rVV	4641974	7619799	54.30%	6.880%
48	13.612	1973	1982	1988	rVV3	95308	240095	1.71%	0.217%
49	13.818	2006	2017	2033	rVB2	2031732	4830857	34.42%	4.362%
50	13.953	2033	2040	2042	rBV	580592	945963	6.74%	0.854%
51	13.994	2042	2047	2063	rVV	4371764	8284207	59.03%	7.480%
52	14.118	2063	2068	2073	rVB	104398	162514	1.16%	0.147%
53	14.182	2073	2079	2084	rBV2	353395	570634	4.07%	0.515%
54	14.241	2084	2089	2092	rVV	280179	459818	3.28%	0.415%
55	14.270	2092	2094	2098	rVV	198415	264482	1.88%	0.239%
56	14.329	2098	2104	2110	rVV	1322269	2041091	14.54%	1.843%
57	14.394	2110	2115	2118	rVV	325518	519397	3.70%	0.469%
58	14.441	2118	2123	2131	rVB2	1210506	2108547	15.02%	1.904%
59	14.576	2140	2146	2151	rVB2	130503	215239	1.53%	0.194%
60	14.653	2151	2159	2163	rBV	794941	1376149	9.81%	1.243%
61	14.694	2163	2166	2170	rVV	430949	616273	4.39%	0.556%
62	14.923	2200	2205	2211	rBV	932114	1527195	10.88%	1.379%
63	15.053	2217	2227	2233	rBV2	1516306	3260787	23.23%	2.944%
64	15.117	2233	2238	2246	rVV3	136469	283426	2.02%	0.256%
65	15.206	2246	2253	2261	rVV3	254926	488490	3.48%	0.441%
66	15.312	2261	2271	2277	rVV2	267919	727800	5.19%	0.657%
67	15.359	2277	2279	2284	rVV	115690	179488	1.28%	0.162%
68	15.435	2284	2292	2300	rVB3	209265	550168	3.92%	0.497%
69	15.635	2312	2326	2337	rBV	3143895	6356453	45.29%	5.739%
70	15.741	2338	2344	2351	rVV	218318	475237	3.39%	0.429%
71	15.941	2371	2378	2389	rBV	97481	195939	1.40%	0.177%
72	16.123	2400	2409	2420	rBV2	55355	186967	1.33%	0.169%
73	16.776	2512	2520	2522	rBV	732048	1290626	9.20%	1.165%

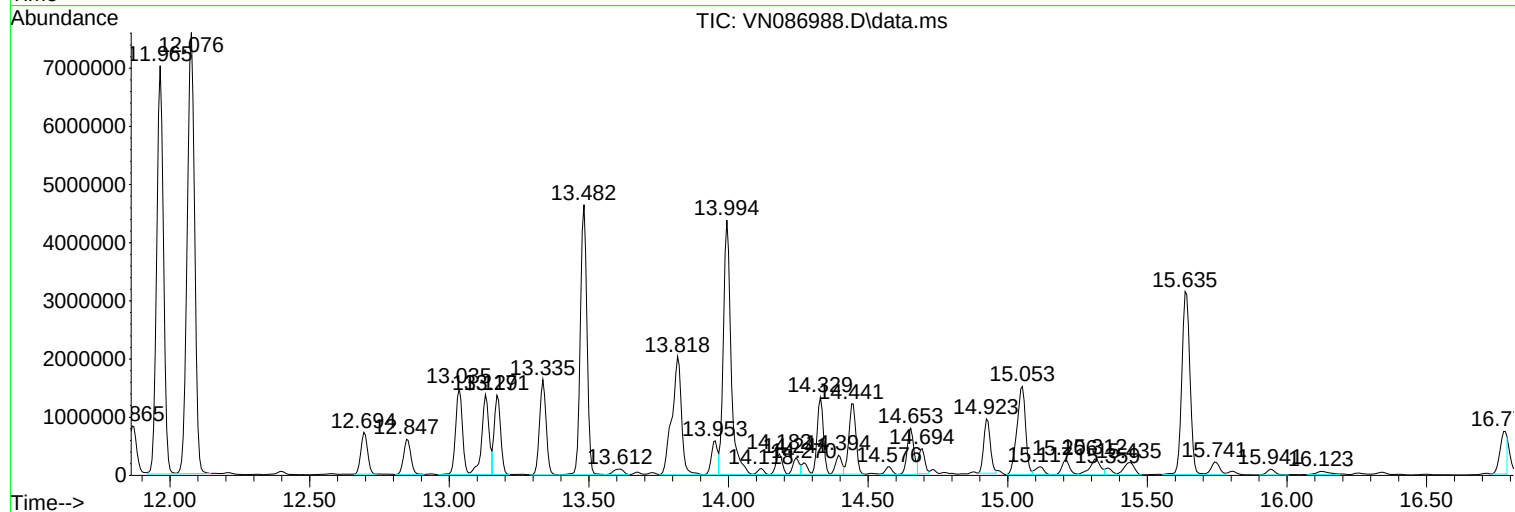
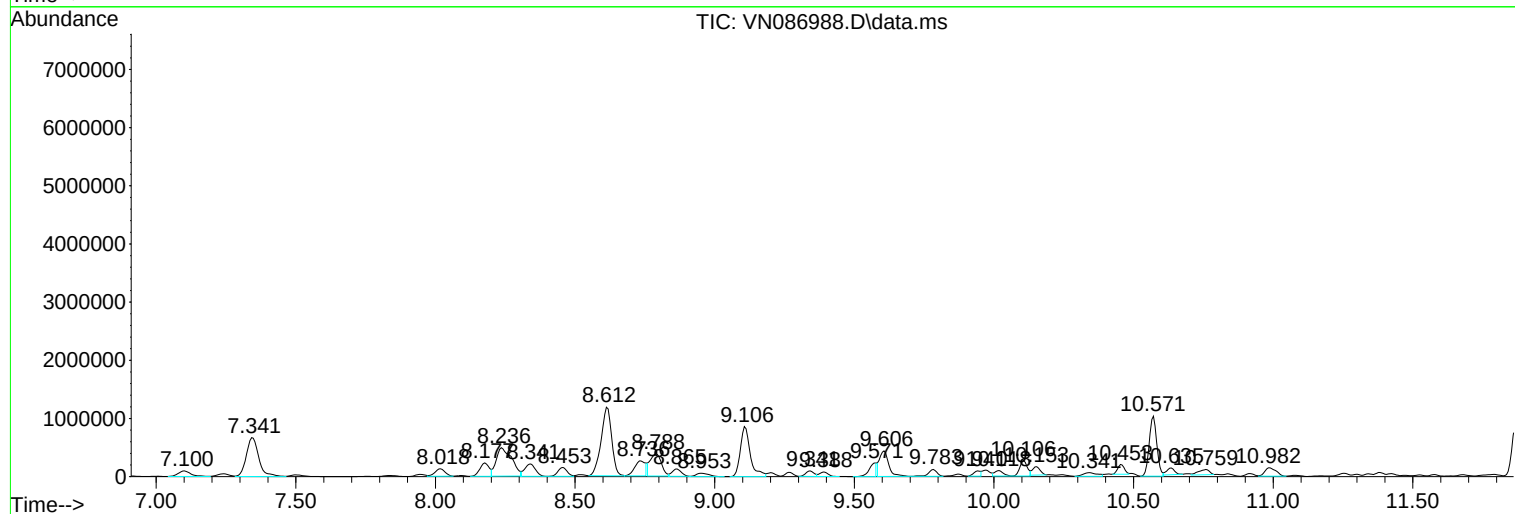
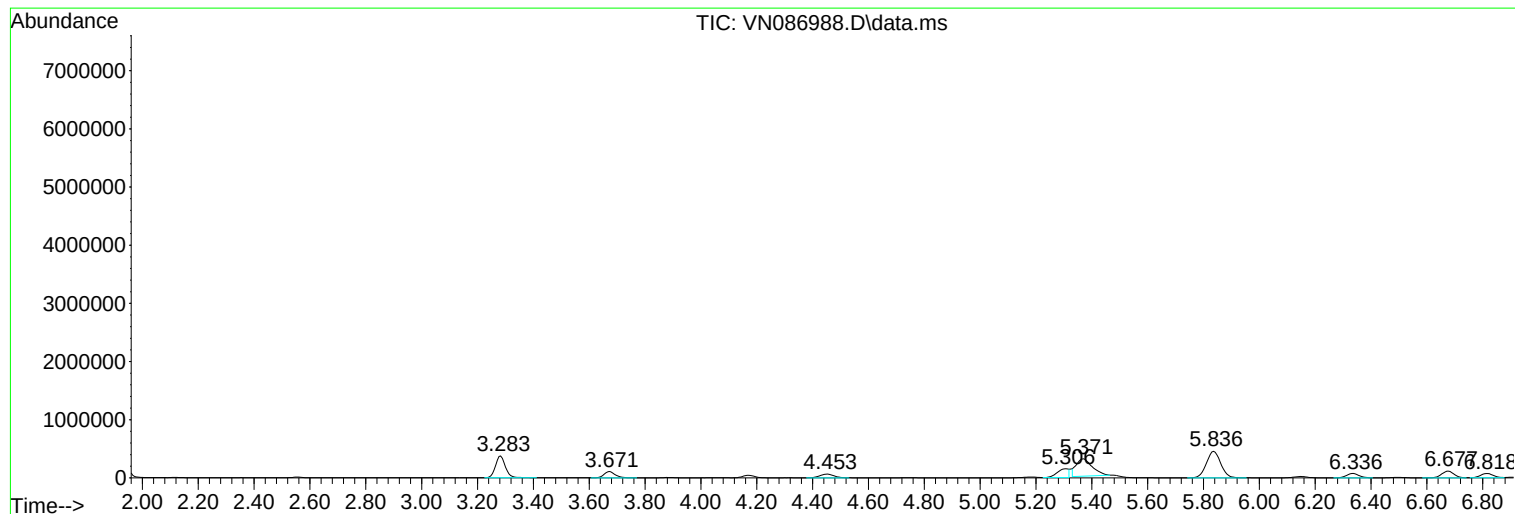
Sum of corrected areas: 110752384

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

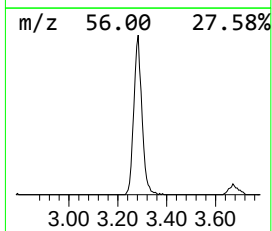
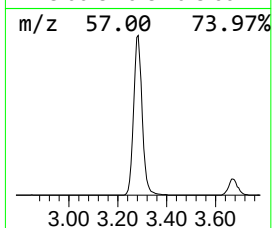
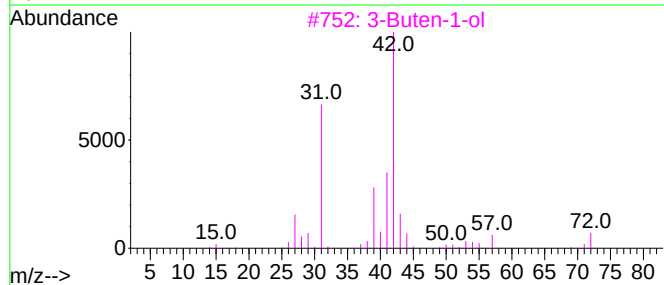
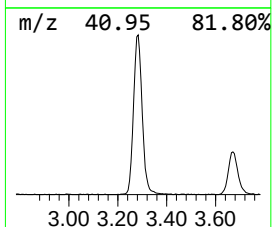
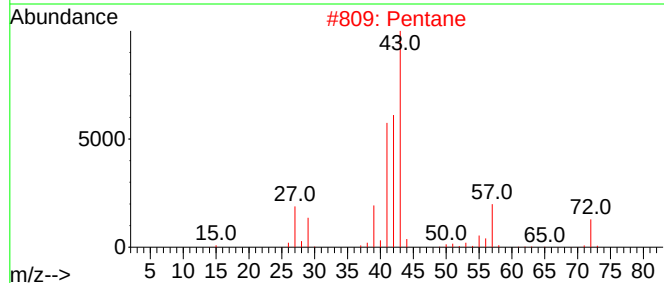
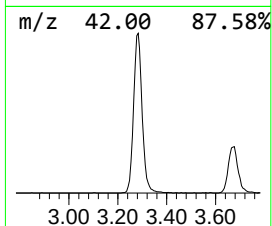
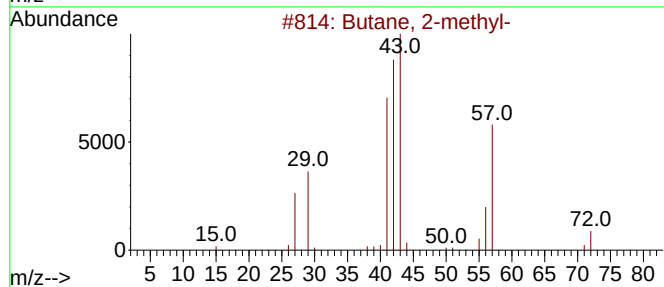
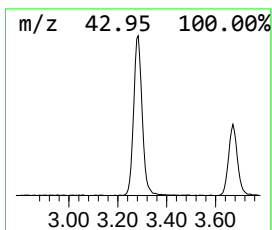
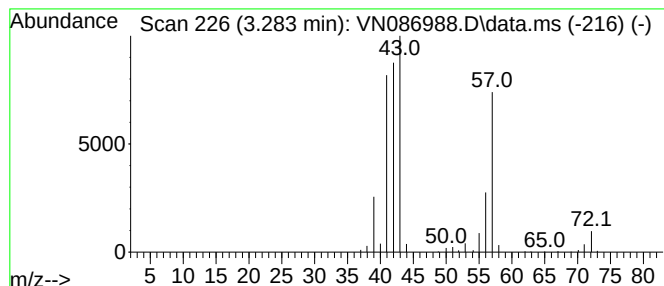
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Quant Title : SW846 8260

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

Peak Number 1 Butane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.283	24.59 ug/l	912144	Pentafluorobenzene	8.236

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methyl-	72	C5H12	000078-78-4	91
2			Pentane	72	C5H12	000109-66-0	38
3			3-Buten-1-ol	72	C4H8O	000627-27-0	28
4			Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	17
5			1-Butene	56	C4H8	000106-98-9	10



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

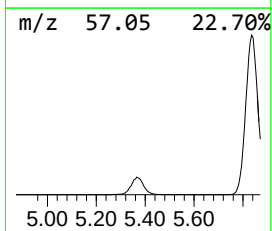
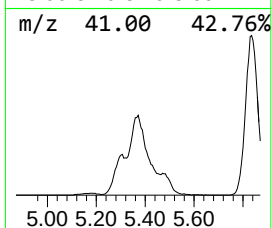
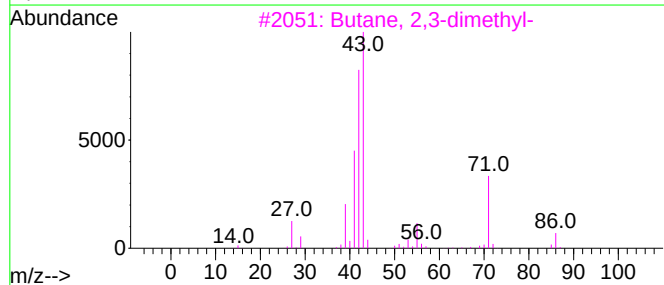
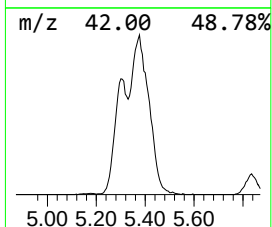
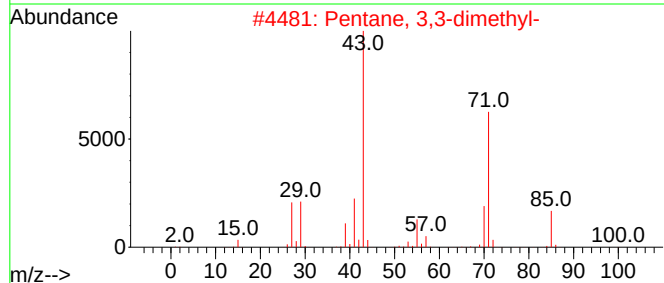
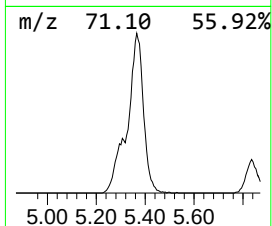
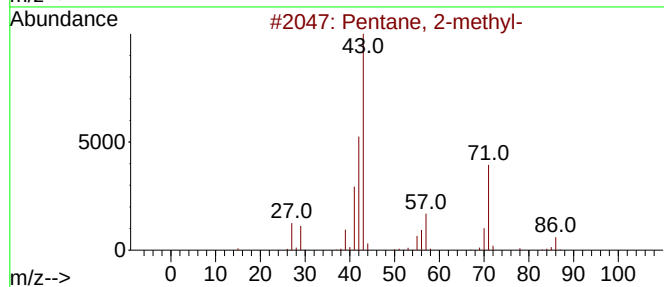
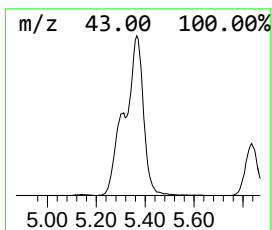
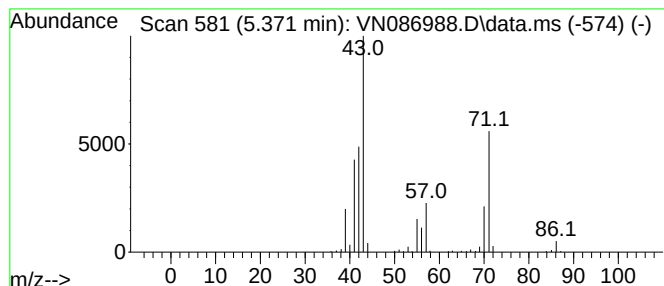
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Quant Title : SW846 8260

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

Peak Number 2 Pentane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.371	32.04 ug/l	1188800	Pentafluorobenzene	8.236

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2			Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	38
3			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	37
4			Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	36
5			Butane, 2-methyl-	72	C5H12	000078-78-4	32



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

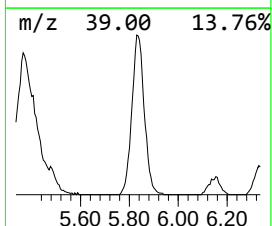
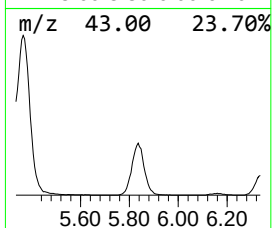
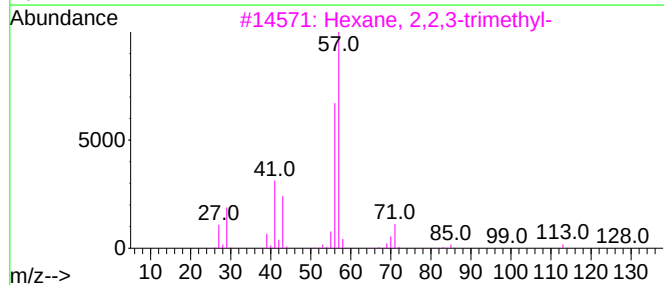
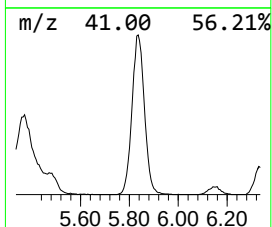
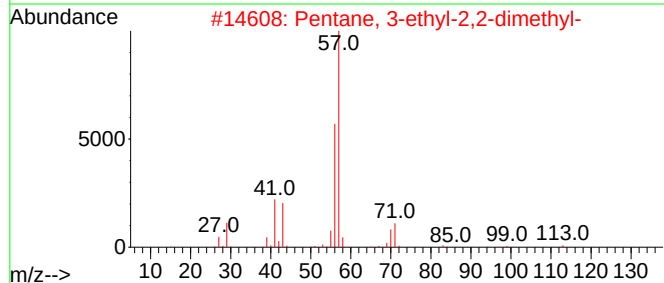
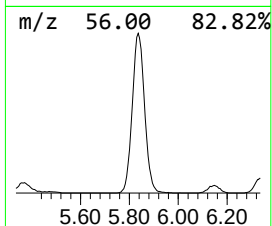
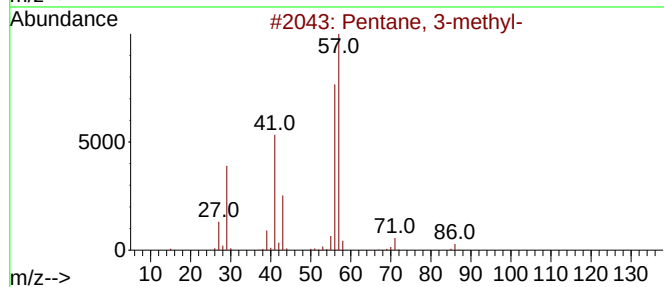
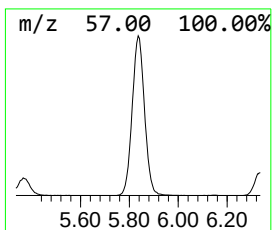
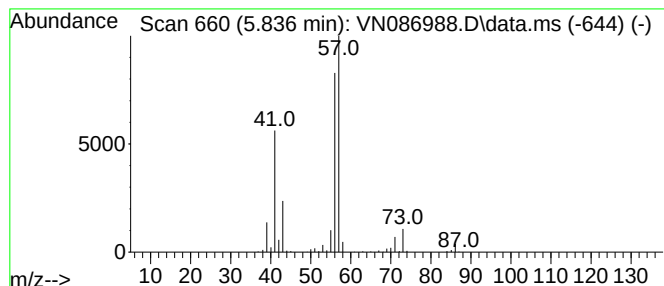
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Quant Title : SW846 8260

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

Peak Number 3 Pentane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.836	43.93 ug/l	1629880	Pentafluorobenzene	8.236

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2			Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	72
3			Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	72
4			Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	59
5			Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	45



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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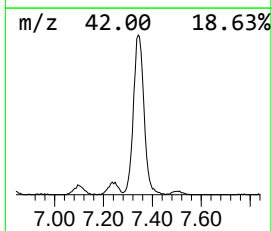
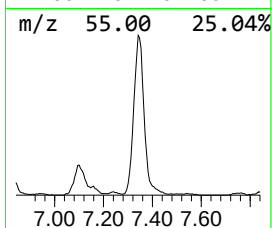
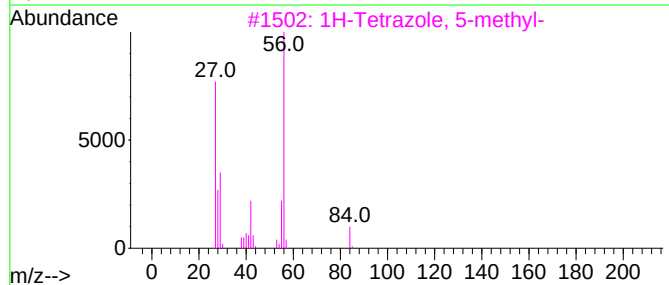
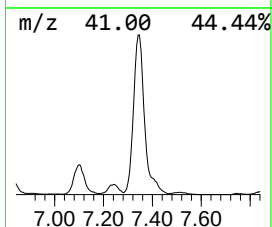
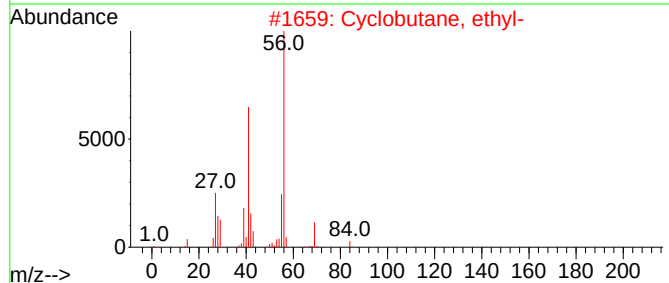
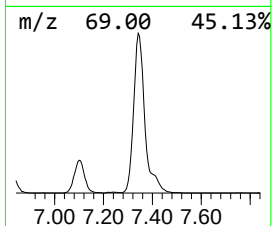
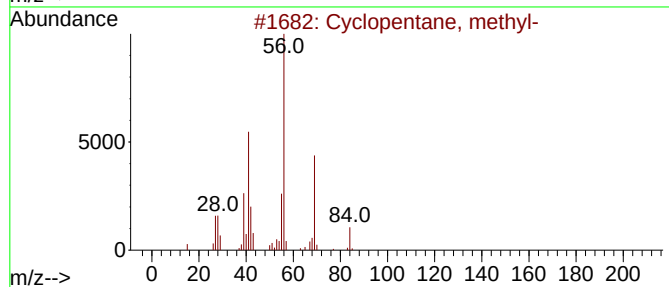
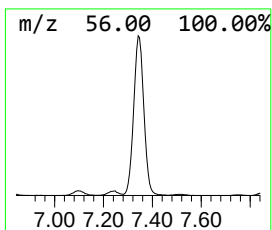
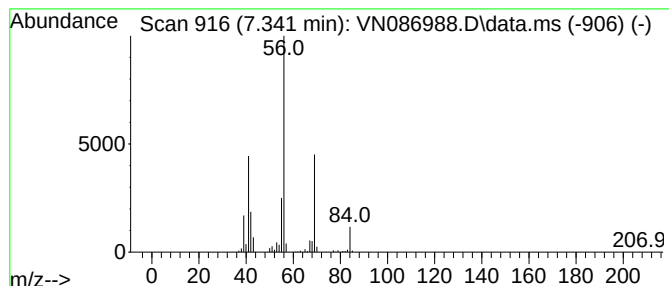
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Quant Title : SW846 8260

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

Peak Number 4 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.341	55.68 ug/l	2065860	Pentafluorobenzene	8.236

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2			Cyclobutane, ethyl-	84	C6H12	004806-61-5	78
3			1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	72
4			Cyclohexane	84	C6H12	000110-82-7	56
5			1-Pentene, 2-methyl-	84	C6H12	000763-29-1	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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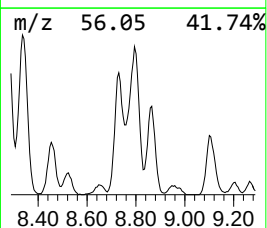
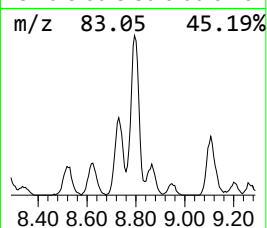
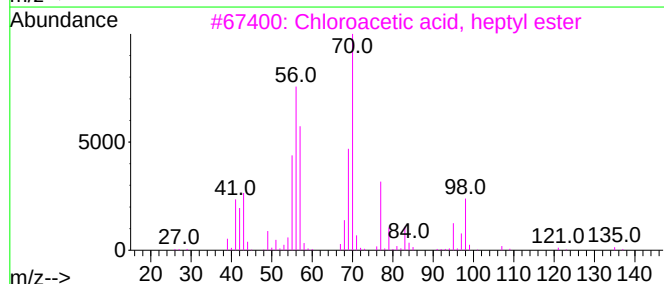
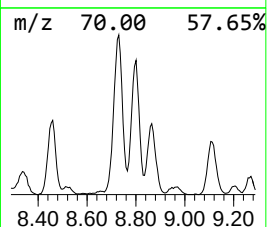
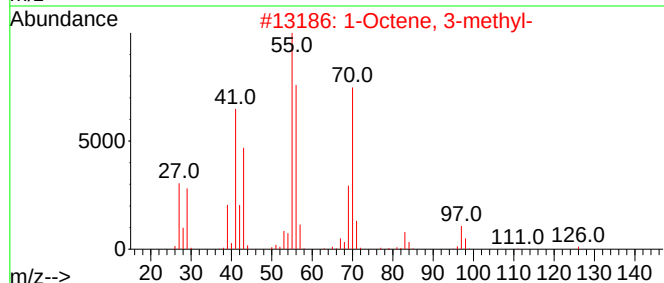
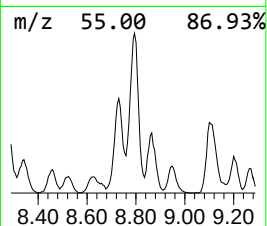
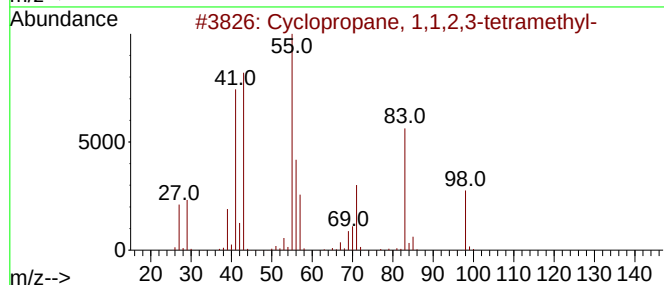
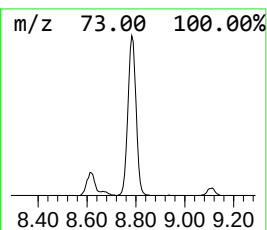
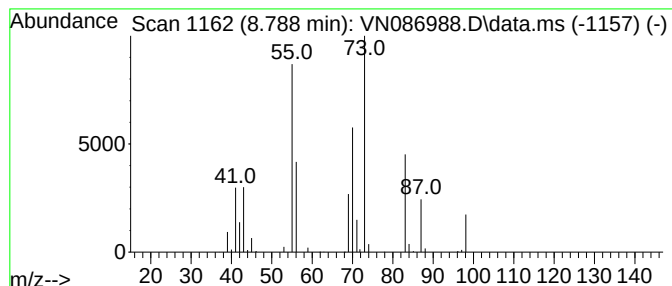
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Quant Title : SW846 8260

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

Peak Number 5 unknown8.788 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.788	24.68 ug/l	1047930	1,4-Difluorobenzene	9.106

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopropane, 1,1,2,3-tetramethyl-	98	C7H14	074752-93-5	43
2			1-Octene, 3-methyl-	126	C9H18	013151-08-1	37
3			Chloroacetic acid, heptyl ester	192	C9H17ClO2	034589-22-5	32
4			2-Methylene cyclopentanol	98	C6H10O	020461-31-8	32
5			2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	27



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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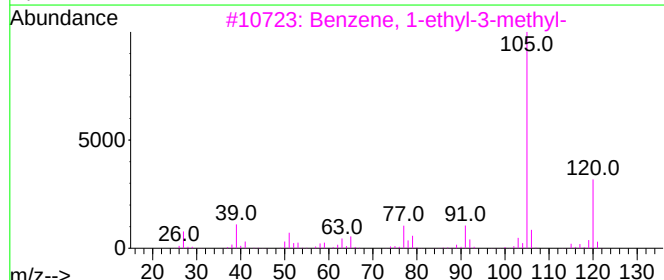
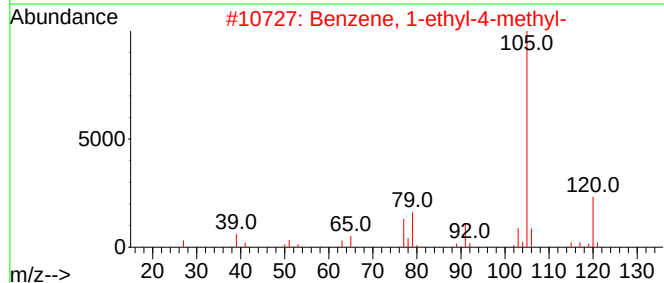
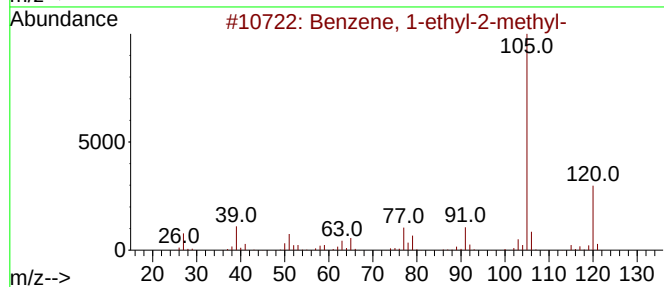
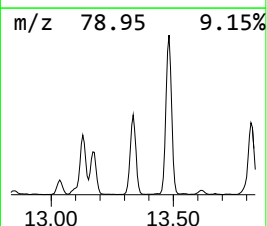
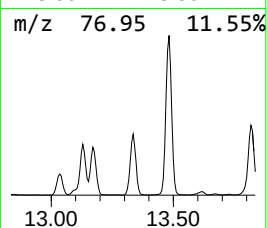
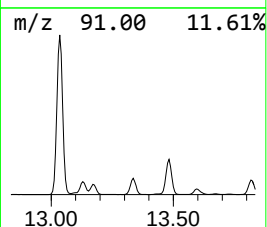
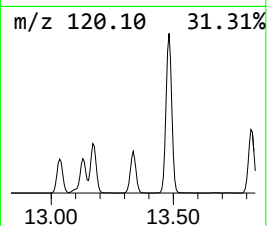
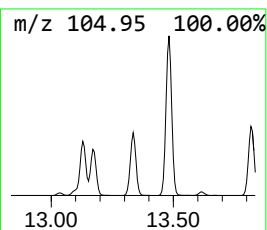
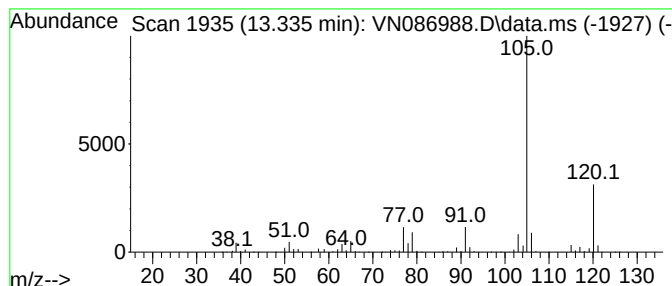
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Quant Title : SW846 8260

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

Peak Number 6 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	27.49 ug/l	2656400	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
3			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4			Mesitylene	120	C9H12	000108-67-8	91
5			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
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ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

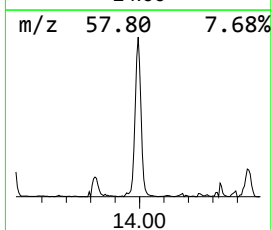
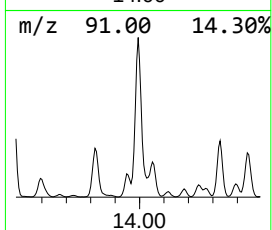
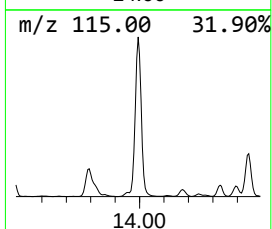
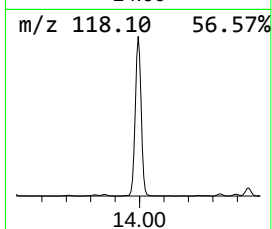
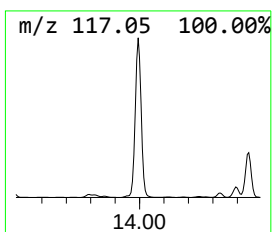
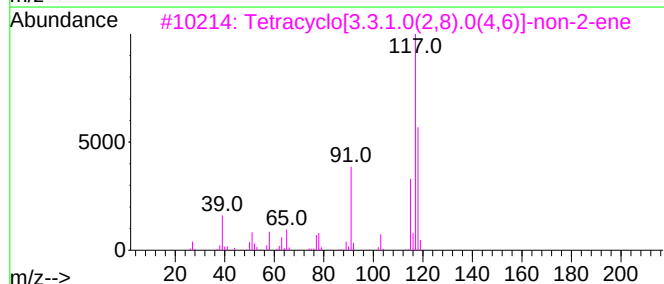
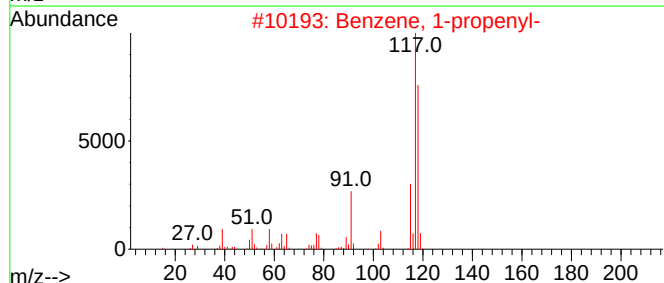
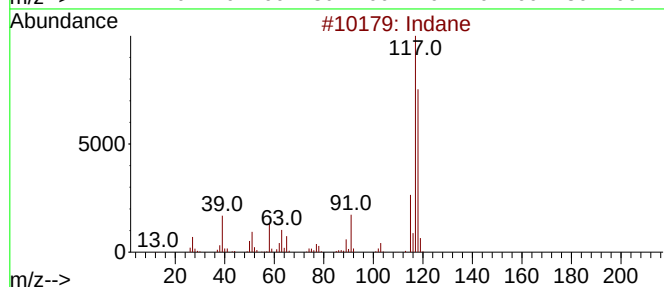
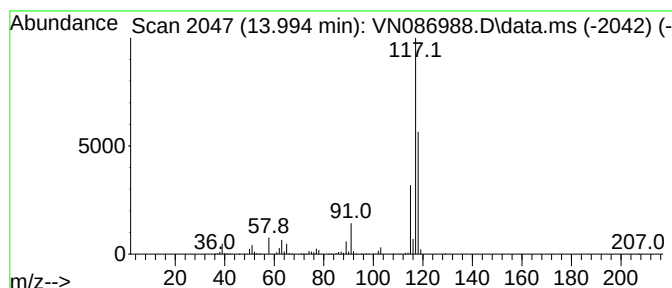
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Quant Title : SW846 8260

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

Peak Number 7 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.994	85.74 ug/l	8284210	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	87
2			Benzene, 1-propenyl-	118	C9H10	000637-50-3	74
3			Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	64
4			Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59
5			Benzene, cyclopropyl-	118	C9H10	000873-49-4	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

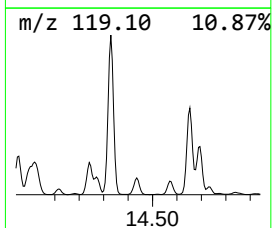
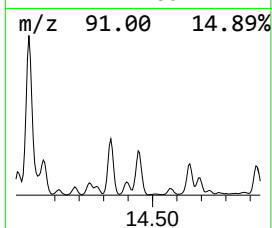
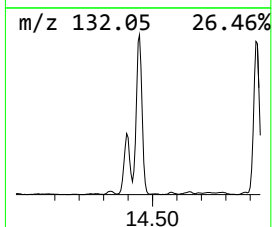
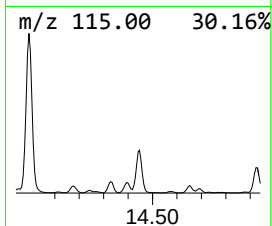
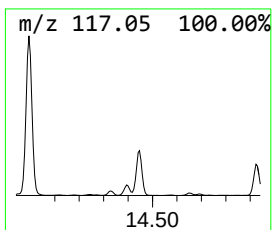
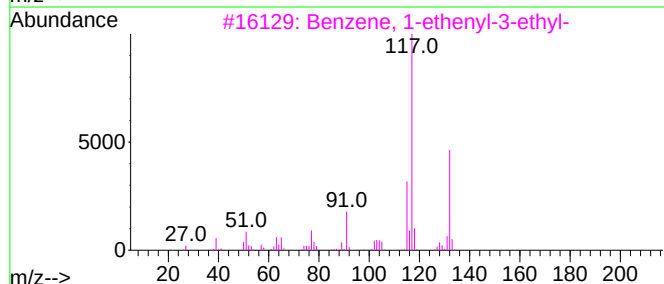
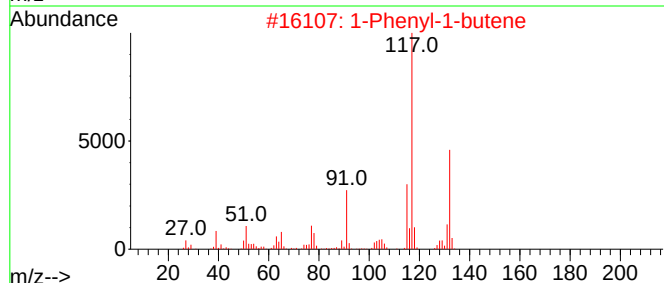
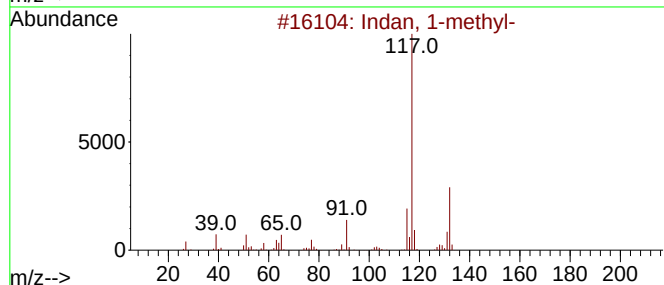
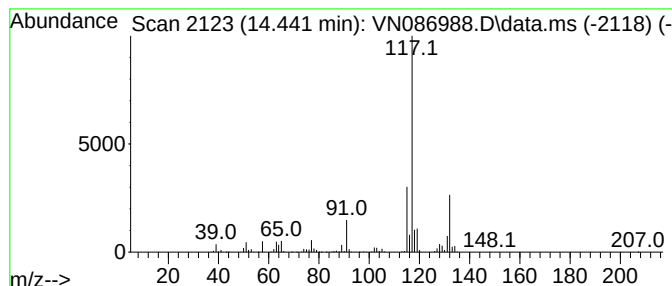
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Quant Title : SW846 8260

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

Peak Number 8 Indan, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.441	21.82 ug/l	2108550	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indan, 1-methyl-	132	C10H12	000767-58-8	93
2			1-Phenyl-1-butene	132	C10H12	000824-90-8	83
3			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	83
4			Benzene, 2-butenyl-	132	C10H12	001560-06-1	83
5			1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	83



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

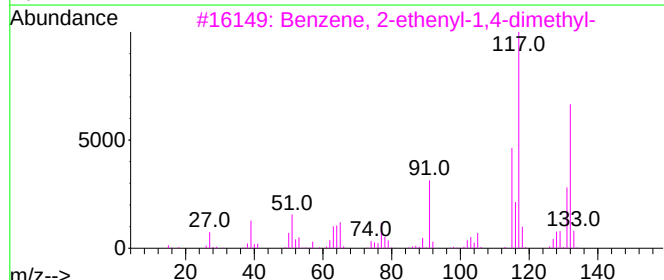
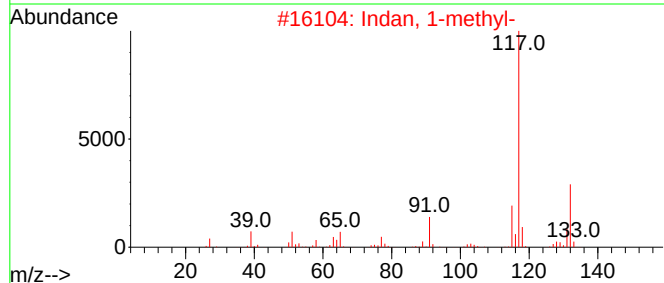
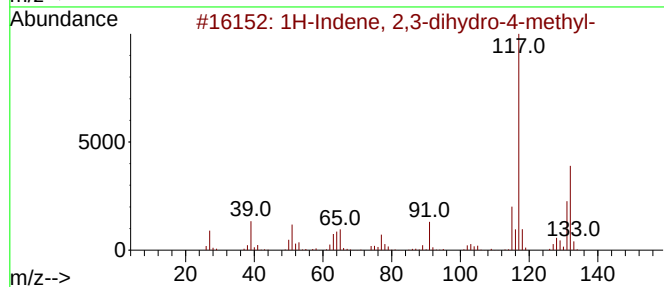
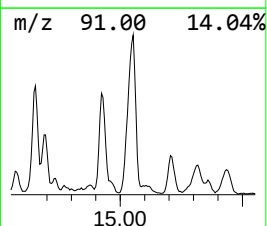
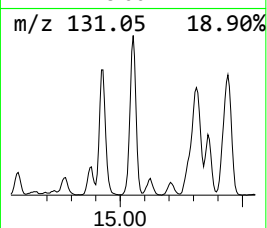
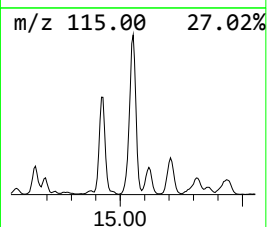
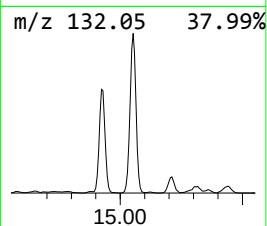
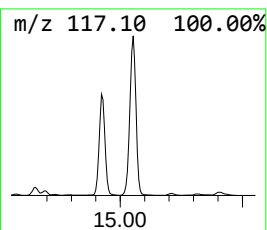
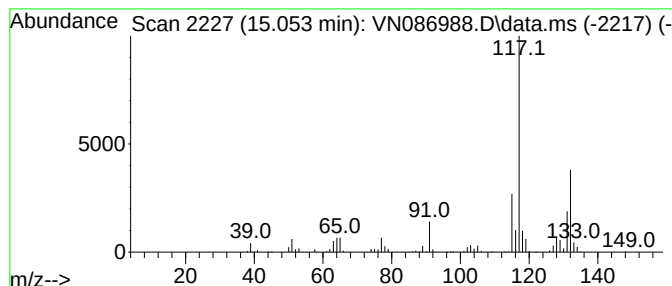
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 9 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.053	33.75 ug/l	3260790	1,4-Dichlorobenzene-d4	13.788

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	95
2		Indan, 1-methyl-	132	C10H12	000767-58-8	93
3		Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
4		Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
5		1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

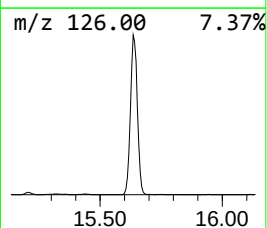
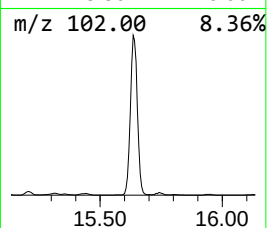
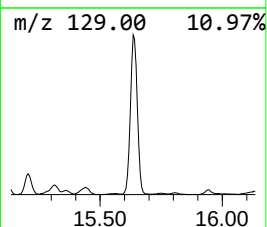
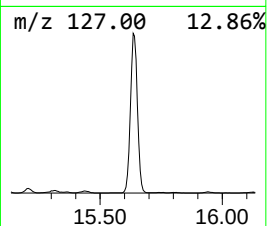
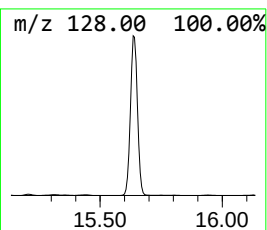
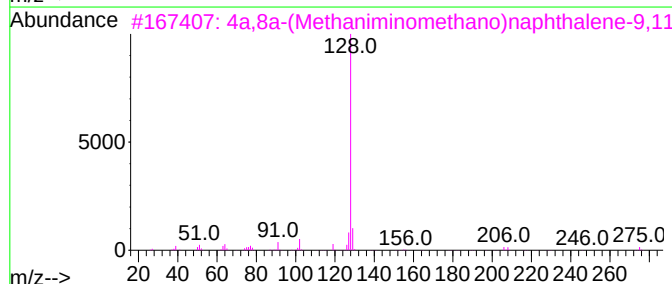
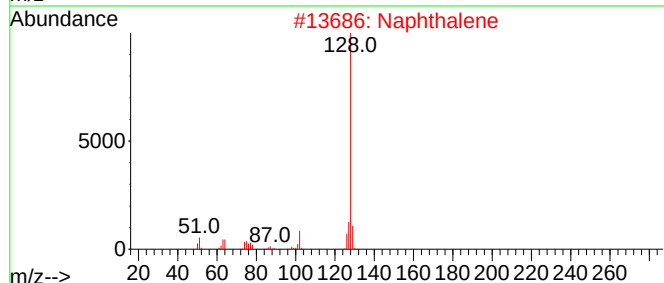
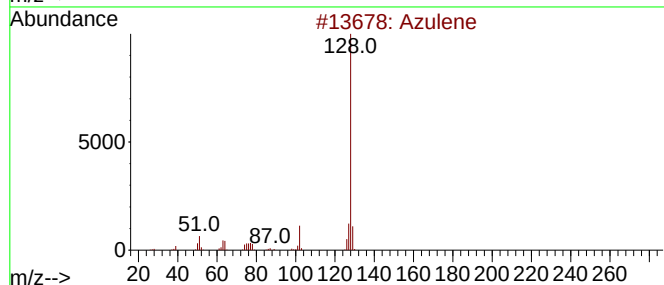
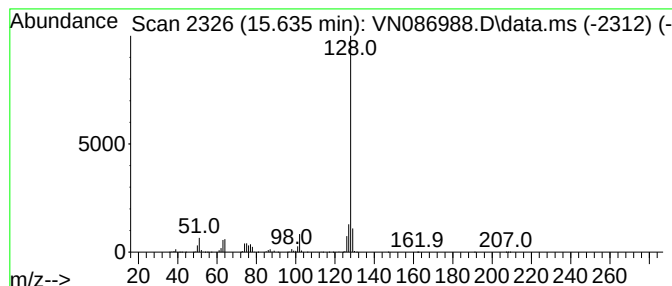
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 10 Azulene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.635	65.79 ug/l	6356450	1,4-Dichlorobenzene-d4	13.788

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Azulene	128	C10H8	000275-51-4	95
2			Naphthalene	128	C10H8	000091-20-3	95
3			4a,8a-(Methaniminomethano)naphth...	275	C18H13NO2	069915-10-2	74
4			1,3-Dicyanobenzene	128	C8H4N2	000626-17-5	59
5			4-Phenylbut-3-ene-1-yne	128	C10H8	100022-12-0	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086988.D
Acq On : 12 Jun 2025 19:18
Operator : JC\MD
Sample : Q2268-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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
Butane, 2-methyl-	3.283	24.6	ug/l	912144	1	8.236	1854960	50.0
Pentane, 2-methyl-	5.371	32.0	ug/l	1188800	1	8.236	1854960	50.0
Pentane, 3-methyl-	5.836	43.9	ug/l	1629880	1	8.236	1854960	50.0
Cyclopentane, m...	7.341	55.7	ug/l	2065860	1	8.236	1854960	50.0
unknown8.788	8.788	24.7	ug/l	1047930	2	9.106	2122630	50.0
Benzene, 1-ethy...	13.335	27.5	ug/l	2656400	4	13.788	4830860	50.0
Indane	13.994	85.7	ug/l	8284210	4	13.788	4830860	50.0
Indan, 1-methyl-	14.441	21.8	ug/l	2108550	4	13.788	4830860	50.0
1H-Indene, 2,3-...	15.053	33.8	ug/l	3260790	4	13.788	4830860	50.0
Azulene	15.635	65.8	ug/l	6356450	4	13.788	4830860	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605-ADL	SDG No.:	Q2268
Lab Sample ID:	Q2268-06DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087011.D	10		06/13/25 18:46	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	2.20	UD	2.20	10.0	ug/L
74-87-3	Chloromethane	3.20	UD	3.20	10.0	ug/L
75-01-4	Vinyl Chloride	2.60	UD	2.60	10.0	ug/L
74-83-9	Bromomethane	14.4	UD	14.4	50.0	ug/L
75-00-3	Chloroethane	4.70	UD	4.70	10.0	ug/L
75-69-4	Trichlorofluoromethane	3.30	UD	3.30	10.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	UD	2.50	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	UDQ	2.30	10.0	ug/L
67-64-1	Acetone	15.1	UD	15.1	50.0	ug/L
75-15-0	Carbon Disulfide	2.10	UDQ	2.10	10.0	ug/L
1634-04-4	Methyl tert-butyl Ether	1.60	UD	1.60	10.0	ug/L
79-20-9	Methyl Acetate	2.70	UD	2.70	10.0	ug/L
75-09-2	Methylene Chloride	2.80	UD	2.80	10.0	ug/L
156-60-5	trans-1,2-Dichloroethene	2.30	UD	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	UD	2.30	10.0	ug/L
110-82-7	Cyclohexane	39.7	JD	14.5	50.0	ug/L
78-93-3	2-Butanone	9.80	UD	9.80	50.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	2.50	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	1.90	UD	1.90	10.0	ug/L
74-97-5	Bromochloromethane	2.20	UD	2.20	10.0	ug/L
67-66-3	Chloroform	2.50	UD	2.50	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	UD	2.00	10.0	ug/L
108-87-2	Methylcyclohexane	31.7	D	1.60	10.0	ug/L
71-43-2	Benzene	77.5	D	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	UD	2.20	10.0	ug/L
79-01-6	Trichloroethene	0.93	UD	0.93	10.0	ug/L
78-87-5	1,2-Dichloropropane	2.00	UD	2.00	10.0	ug/L
75-27-4	Bromodichloromethane	2.20	UD	2.20	10.0	ug/L
108-10-1	4-Methyl-2-Pentanone	6.80	UD	6.80	50.0	ug/L
108-88-3	Toluene	6.50	JD	1.40	10.0	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605-ADL	SDG No.:	Q2268
Lab Sample ID:	Q2268-06DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087011.D	10		06/13/25 18:46	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.70	UD	1.70	10.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.60	UD	1.60	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	UD	2.10	10.0	ug/L
591-78-6	2-Hexanone	8.90	UD	8.90	50.0	ug/L
124-48-1	Dibromochloromethane	1.80	UD	1.80	10.0	ug/L
106-93-4	1,2-Dibromoethane	1.50	UD	1.50	10.0	ug/L
127-18-4	Tetrachloroethene	2.30	UD	2.30	10.0	ug/L
108-90-7	Chlorobenzene	1.20	UD	1.20	10.0	ug/L
100-41-4	Ethyl Benzene	280	D	1.30	10.0	ug/L
179601-23-1	m/p-Xylenes	350	D	2.40	20.0	ug/L
95-47-6	o-Xylene	1.20	UDQ	1.20	10.0	ug/L
100-42-5	Styrene	1.50	UD	1.50	10.0	ug/L
75-25-2	Bromoform	1.90	UDQ	1.90	10.0	ug/L
98-82-8	Isopropylbenzene	28.6	D	1.20	10.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.60	UD	2.60	10.0	ug/L
541-73-1	1,3-Dichlorobenzene	1.60	UD	1.60	10.0	ug/L
106-46-7	1,4-Dichlorobenzene	1.90	UD	1.90	10.0	ug/L
95-50-1	1,2-Dichlorobenzene	1.60	UD	1.60	10.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	5.30	UD	5.30	10.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	2.00	UD	2.00	10.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	2.00	UD	2.00	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	52.2		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	277000	8.236			
540-36-3	1,4-Difluorobenzene	545000	9.106			
3114-55-4	Chlorobenzene-d5	484000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	233000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605-ADL	SDG No.:	Q2268
Lab Sample ID:	Q2268-06DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087011.D	10		06/13/25 18:46	VN061325

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\VN061325\
 Data File : VN087011.D
 Acq On : 13 Jun 2025 18:46
 Operator : JC\MD
 Sample : Q2268-06DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605-ADL

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/16/2025
 Supervised By :Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:33:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	277353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	545405	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	483679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	232571	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	191546	51.582	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.160%			
35) Dibromofluoromethane	8.177	113	163376	50.546	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.100%			
50) Toluene-d8	10.571	98	667651	52.179	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.360%			
62) 4-Bromofluorobenzene	12.847	95	239209	50.319	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.640%			
Target Compounds						
					Qvalue	
31) Cyclohexane	8.259	56	23921	3.972	ug/l #	93
39) Methylcyclohexane	9.606	83	20898	3.167	ug/l	93
40) Benzene	8.618	78	122081	7.751	ug/l	98
52) Toluene	10.630	92	6229	0.647	ug/l	96
67) Ethyl Benzene	11.965	91	515102	28.033	ug/l	98
68) m/p-Xylenes	12.076	106	243957	34.683	ug/l	100
73) Isopropylbenzene	12.694	105	48473	2.861	ug/l	98
78) n-propylbenzene	13.035	91	118108	5.736	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	74893	5.354	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	270695	19.298	ug/l	99
85) sec-Butylbenzene	13.618	105	7025m	0.378	ug/l	
89) n-Butylbenzene	14.059	91	8671	0.582	ug/l #	84

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

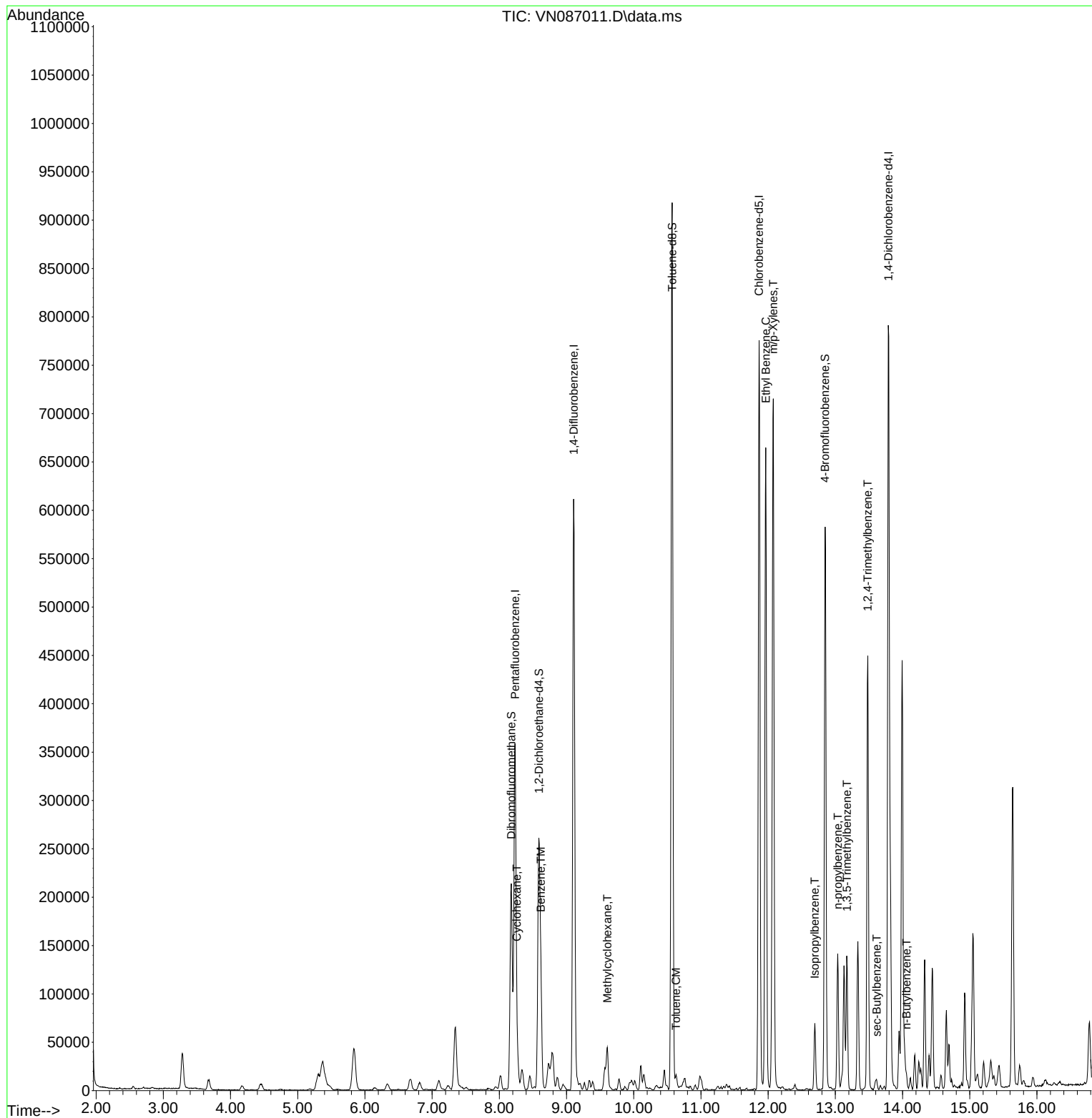
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Data File : VN087011.D
Acq On : 13 Jun 2025 18:46
Operator : JC\MD
Sample : Q2268-06DL 10X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

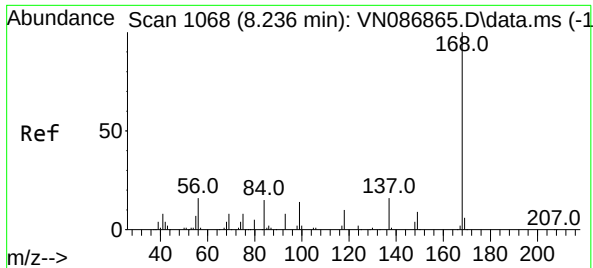
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/16/2025
Supervised By : Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:33:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





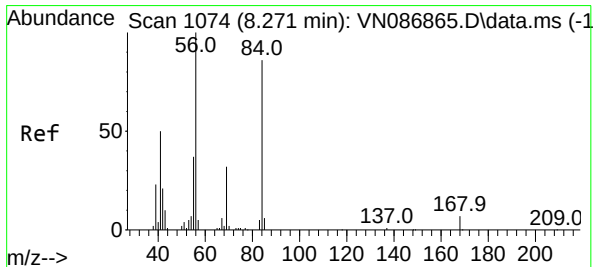
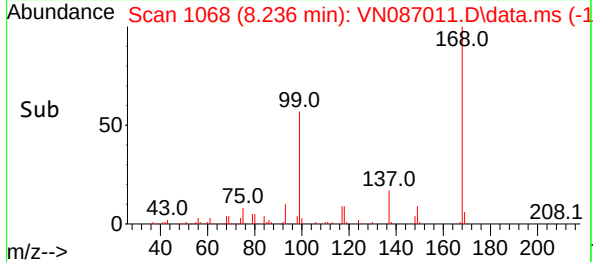
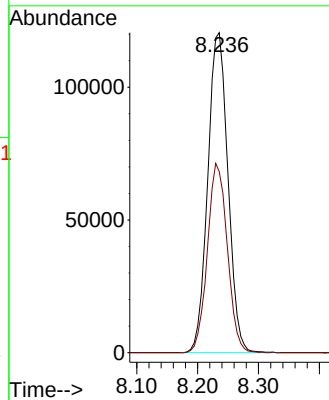
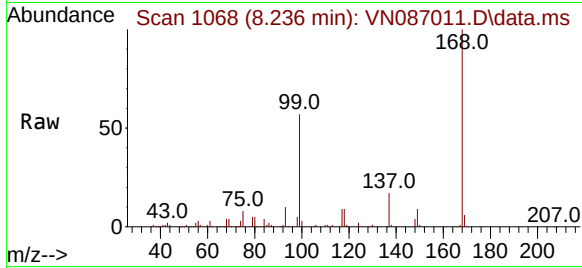
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL

Tgt Ion:168 Resp: 27735
Ion Ratio Lower Upper
168 100
99 56.6 49.1 73.7

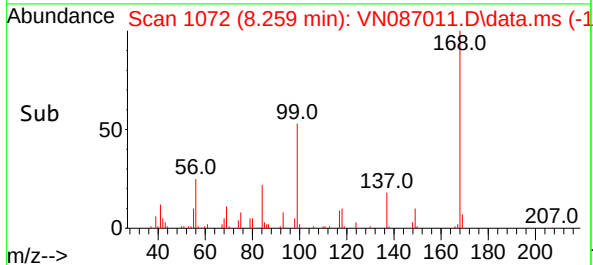
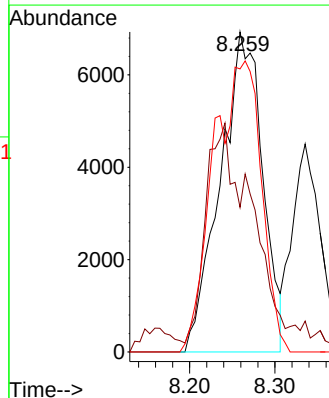
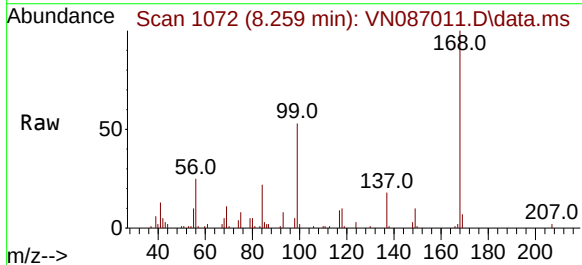
Manual Integrations
APPROVED

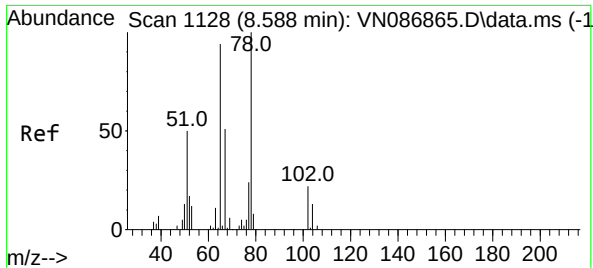
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#31
Cyclohexane
Concen: 3.972 ug/l
RT: 8.259 min Scan# 1072
Delta R.T. -0.012 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

Tgt Ion: 56 Resp: 23921
Ion Ratio Lower Upper
56 100
69 41.7 25.4 38.0#
84 88.5 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 51.582 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087011.D

Acq: 13 Jun 2025 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605-ADL

Tgt Ion: 65 Resp: 191540

Ion Ratio Lower Upper

65 100

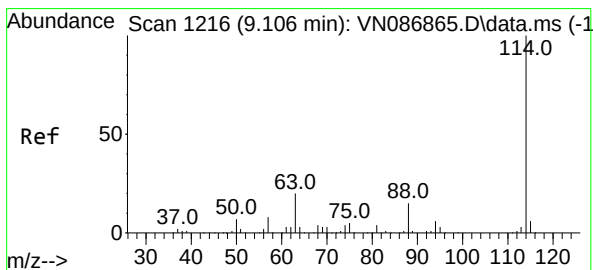
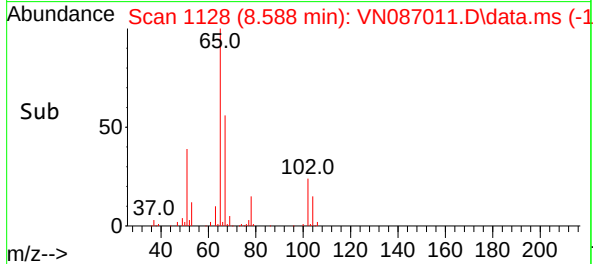
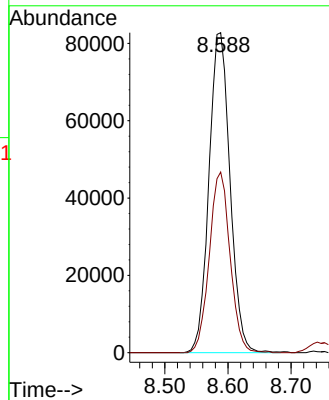
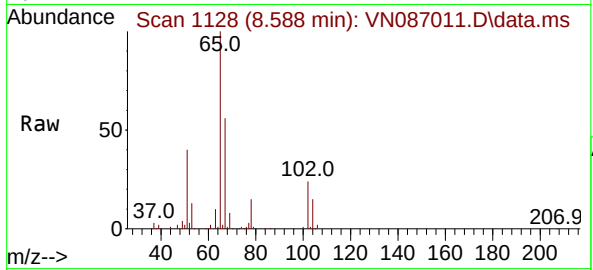
67 55.7 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/16/2025

Supervised By :Mahesh Dadoda 06/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087011.D

Acq: 13 Jun 2025 18:46

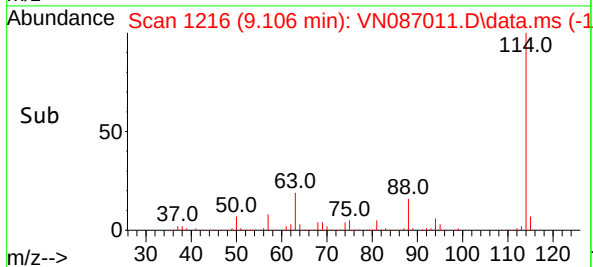
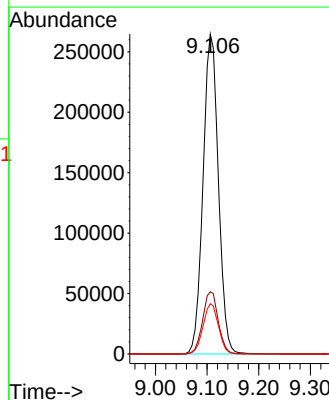
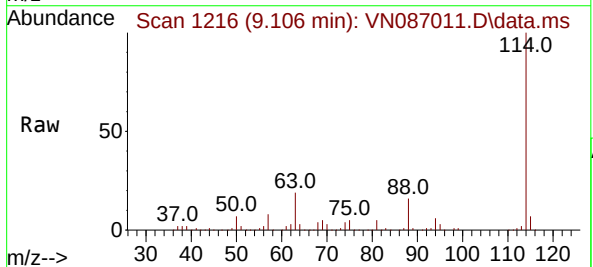
Tgt Ion:114 Resp: 545405

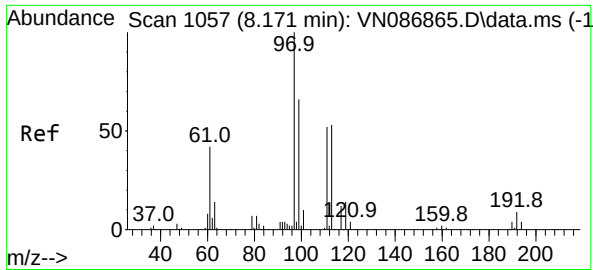
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.546 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN087011.D

Acq: 13 Jun 2025 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605-ADL

Tgt Ion:113 Resp: 163370

Ion Ratio Lower Upper

113 100

111 103.4 84.2 126.2

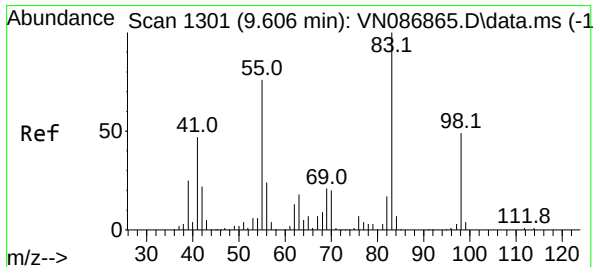
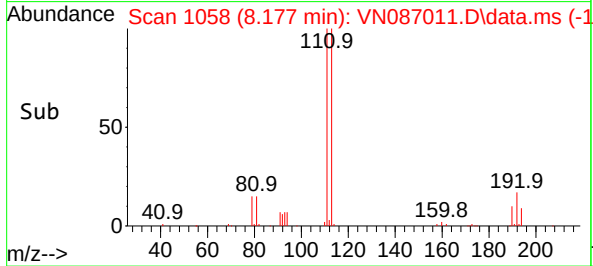
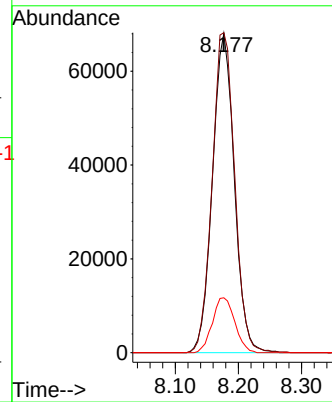
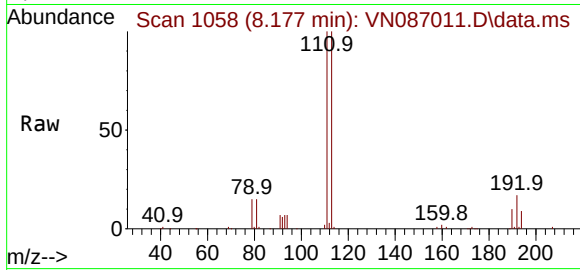
192 17.6 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/16/2025

Supervised By :Mahesh Dadoda 06/16/2025



#39

Methylcyclohexane

Concen: 3.167 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. -0.000 min

Lab File: VN087011.D

Acq: 13 Jun 2025 18:46

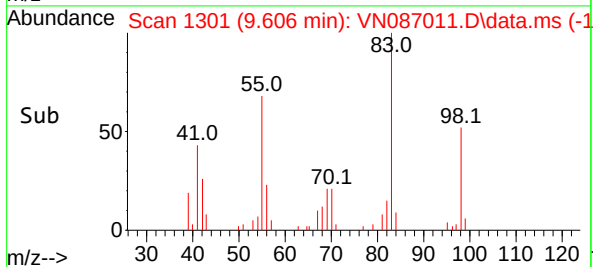
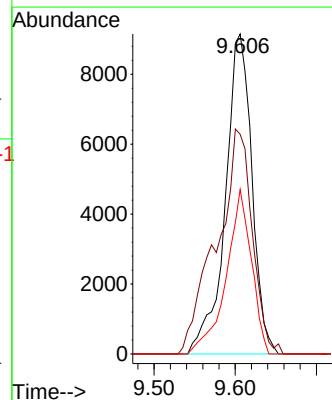
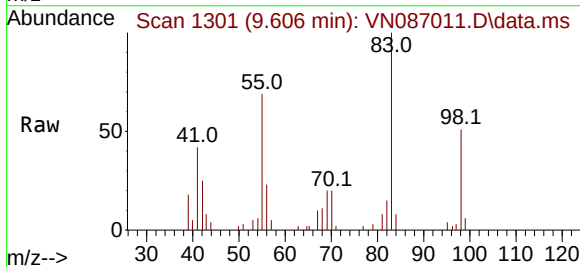
Tgt Ion: 83 Resp: 20898

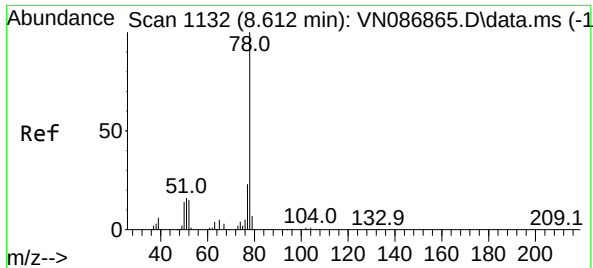
Ion Ratio Lower Upper

83 100

55 68.6 61.0 91.6

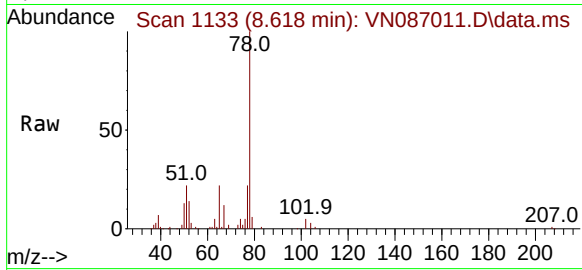
98 51.4 38.9 58.3





#40
Benzene
Concen: 7.751 ug/l
RT: 8.618 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

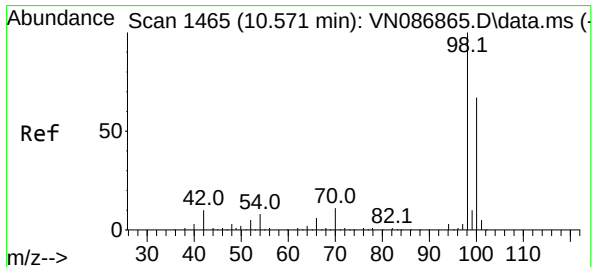
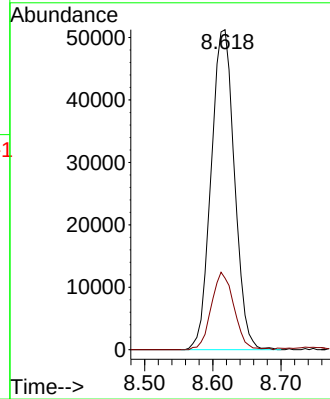
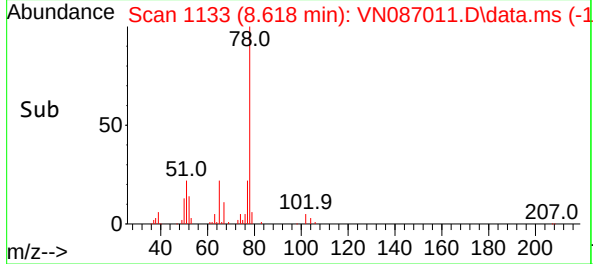
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL



Tgt Ion: 78 Resp: 12208
Ion Ratio Lower Upper
78 100
77 22.4 18.7 28.1

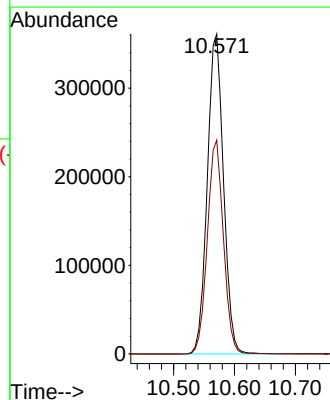
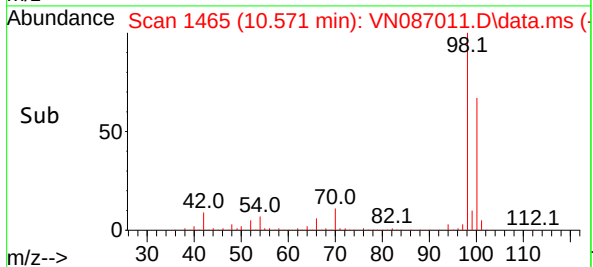
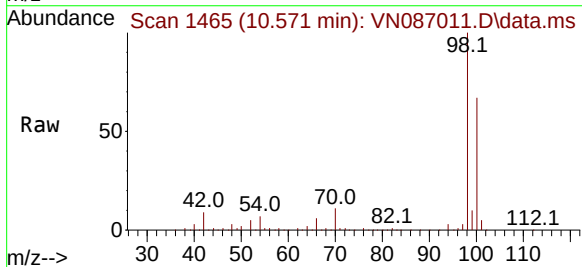
Manual Integrations
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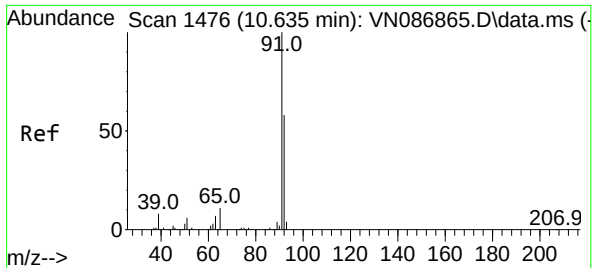
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#50
Toluene-d8
Concen: 52.179 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

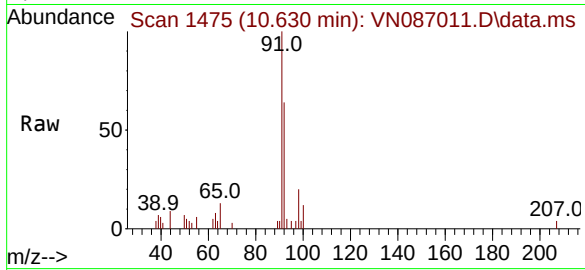
Tgt Ion: 98 Resp: 667651
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0





#52
Toluene
Concen: 0.647 ug/l
RT: 10.630 min Scan# 1476
Delta R.T. -0.006 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

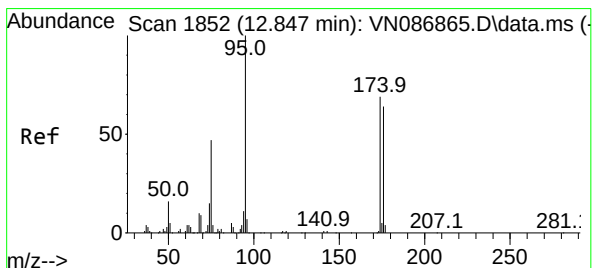
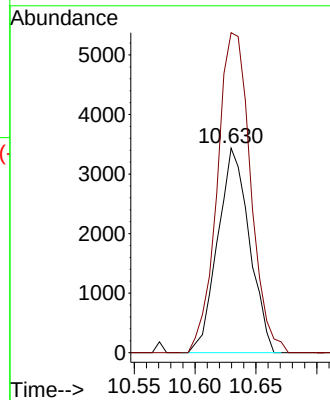
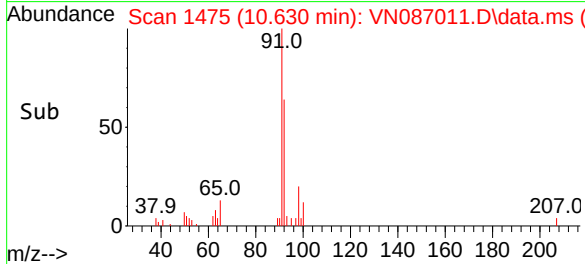
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL



Tgt Ion: 92 Resp: 6229
Ion Ratio Lower Upper
92 100
91 164.6 136.5 204.7

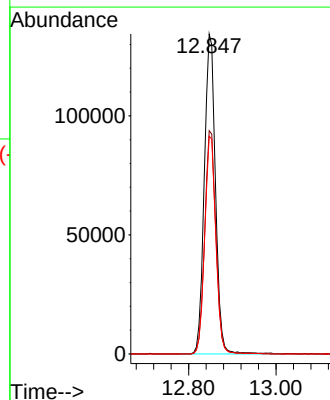
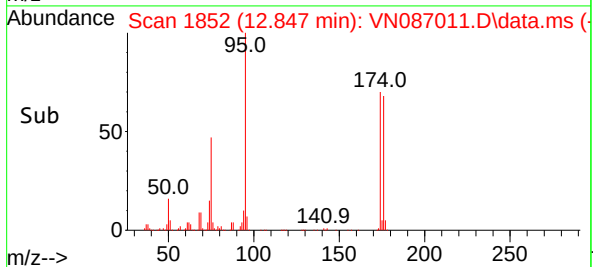
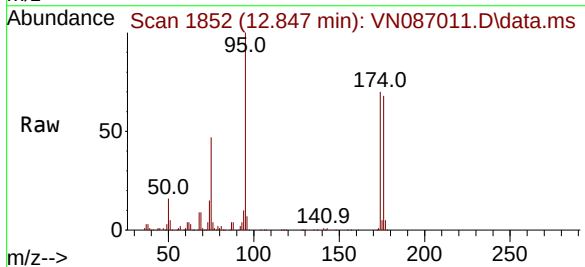
Manual Integrations
APPROVED

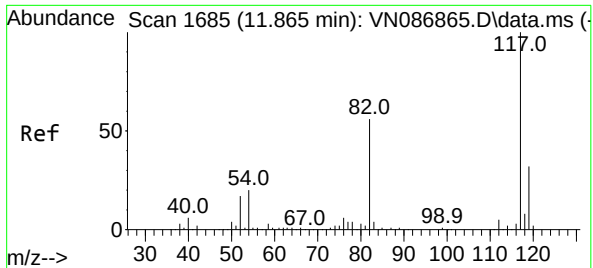
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#62
4-Bromofluorobenzene
Concen: 50.319 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

Tgt Ion: 95 Resp: 239209
Ion Ratio Lower Upper
95 100
174 69.7 0.0 141.8
176 67.5 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087011.D

Acq: 13 Jun 2025 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605-ADL

Tgt Ion:117 Resp: 483679

Ion Ratio Lower Upper

117 100

82 55.5 44.6 67.0

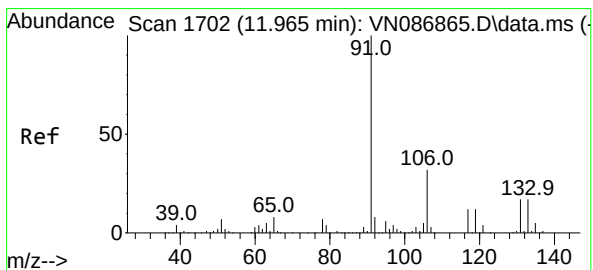
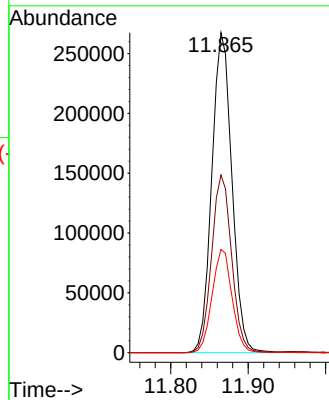
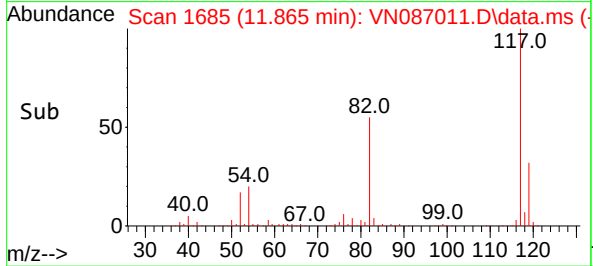
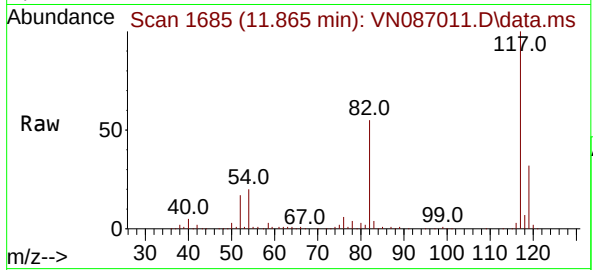
119 32.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/16/2025

Supervised By :Mahesh Dadoda 06/16/2025



#67

Ethyl Benzene

Concen: 28.033 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN087011.D

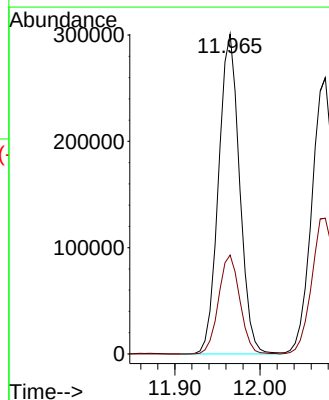
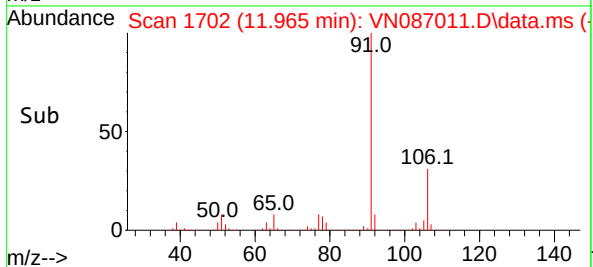
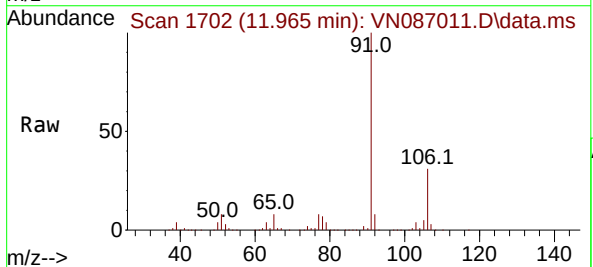
Acq: 13 Jun 2025 18:46

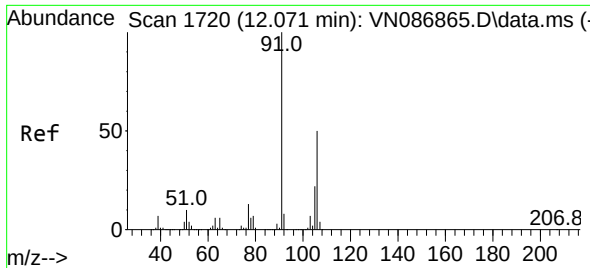
Tgt Ion: 91 Resp: 515102

Ion Ratio Lower Upper

91 100

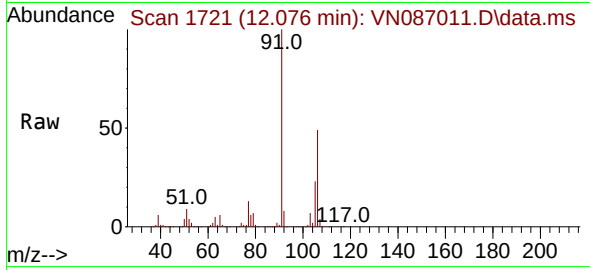
106 30.9 25.4 38.2





#68
m/p-Xylenes
Concen: 34.683 ug/l
RT: 12.076 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

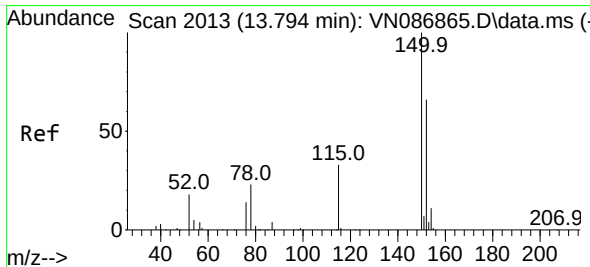
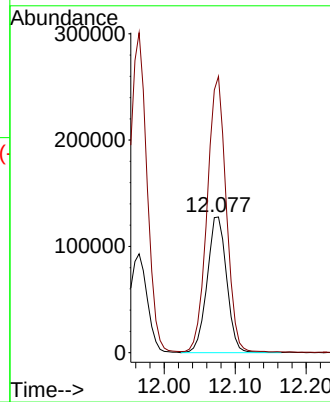
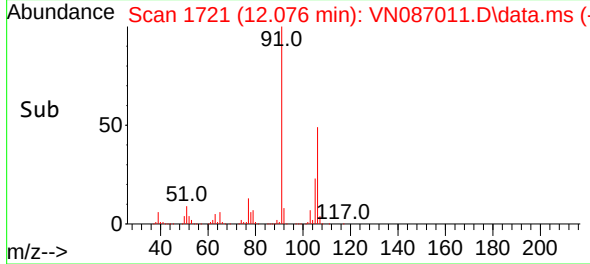
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL



Tgt Ion:106 Resp: 24395
Ion Ratio Lower Upper
106 100
91 199.2 159.4 239.0

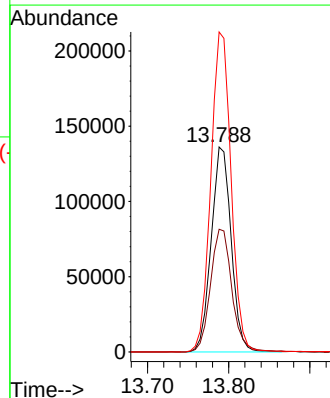
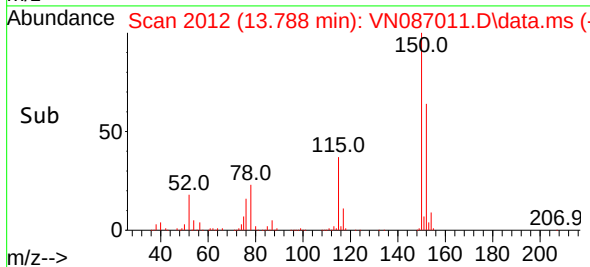
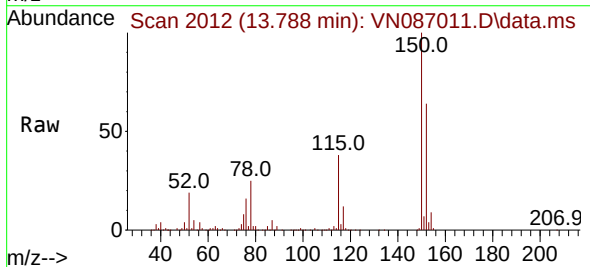
Manual Integrations
APPROVED

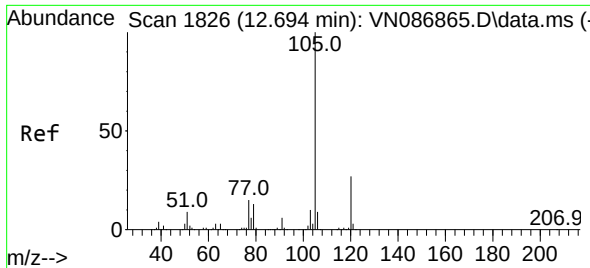
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

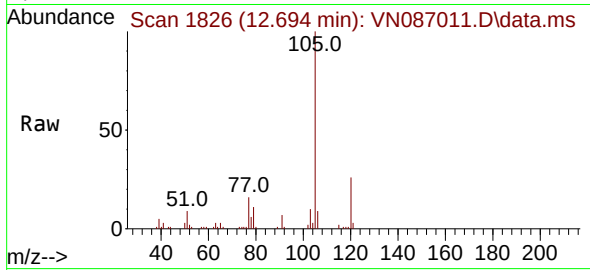
Tgt Ion:152 Resp: 232571
Ion Ratio Lower Upper
152 100
115 64.5 30.1 90.5
150 158.5 0.0 345.0





#73
Isopropylbenzene
Concen: 2.861 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

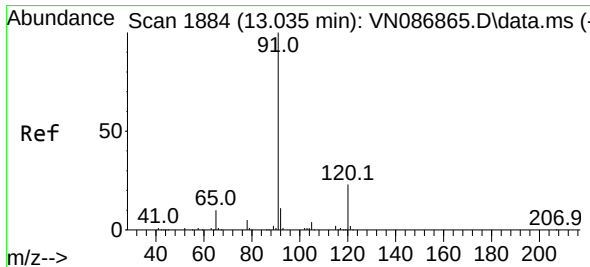
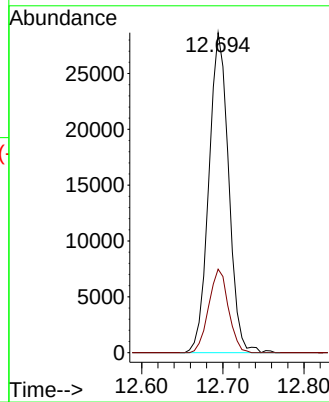
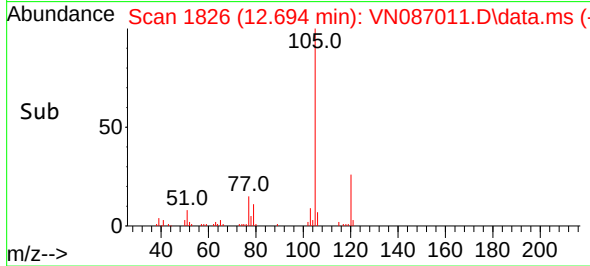
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL



Tgt Ion:105 Resp: 4847
Ion Ratio Lower Upper
105 100
120 26.0 13.5 40.4

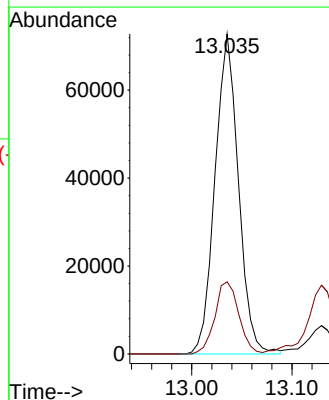
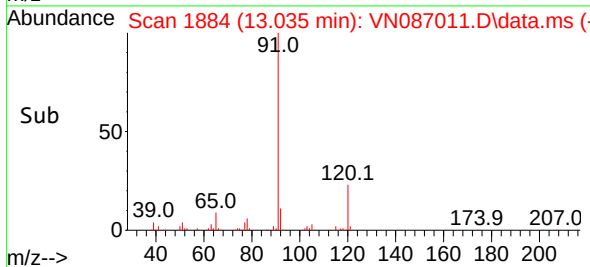
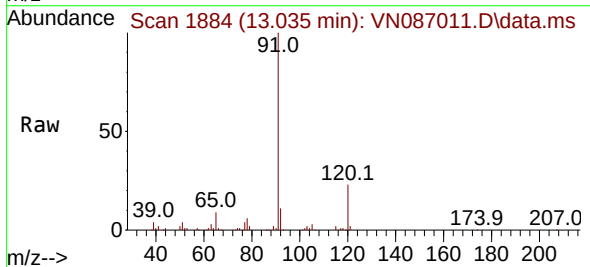
Manual Integrations
APPROVED

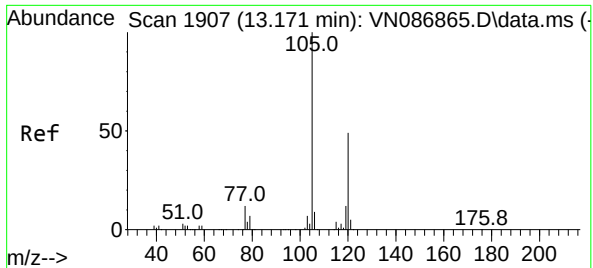
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#78
n-propylbenzene
Concen: 5.736 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

Tgt Ion: 91 Resp: 118108
Ion Ratio Lower Upper
91 100
120 23.0 11.4 34.2





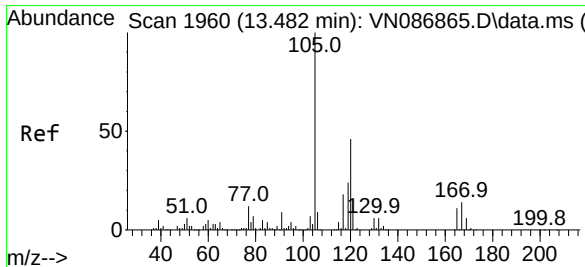
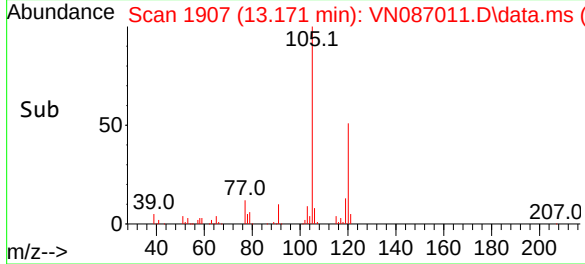
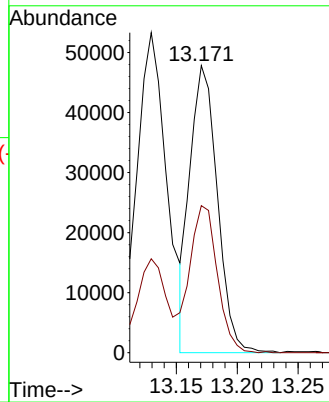
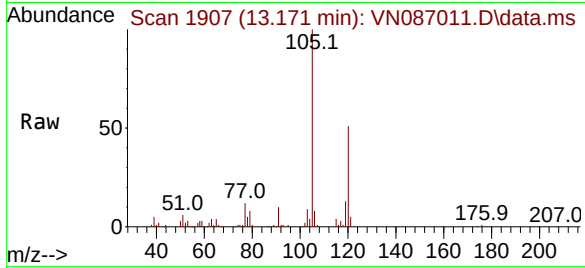
#80
1,3,5-Trimethylbenzene
Concen: 5.354 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL

Tgt Ion:105 Resp: 7489
Ion Ratio Lower Upper
105 100
120 53.1 24.9 74.6

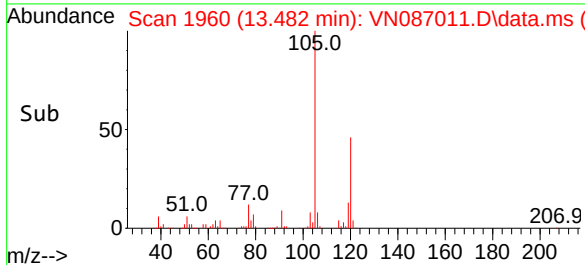
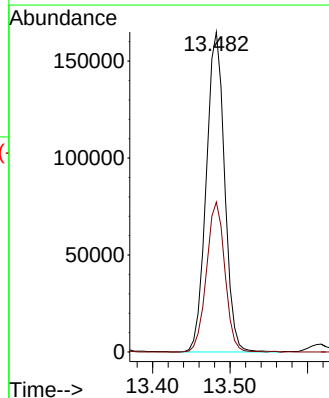
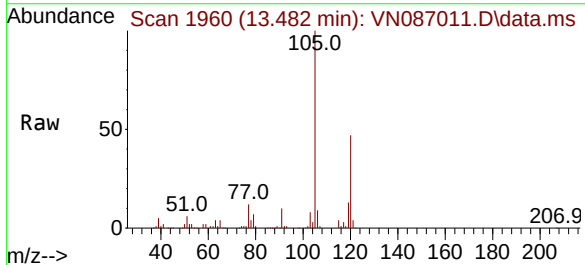
Manual Integrations
APPROVED

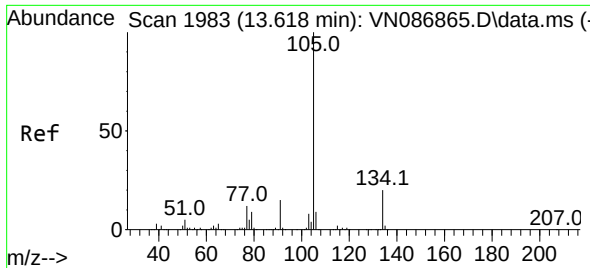
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#84
1,2,4-Trimethylbenzene
Concen: 19.298 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

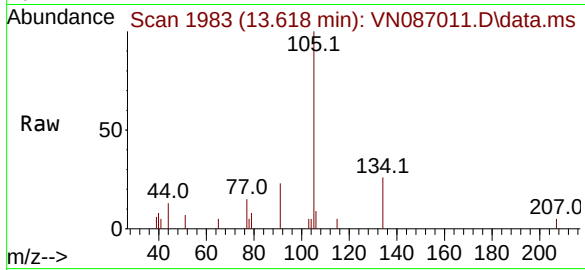
Tgt Ion:105 Resp: 270695
Ion Ratio Lower Upper
105 100
120 46.9 23.2 69.6





#85
sec-Butylbenzene
Concen: 0.378 ug/l m
RT: 13.618 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46

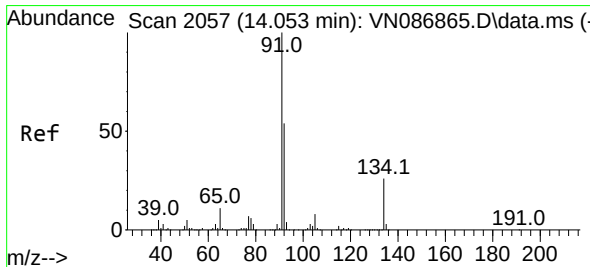
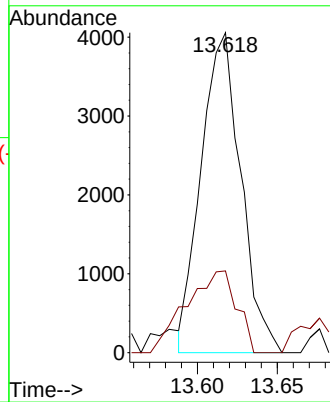
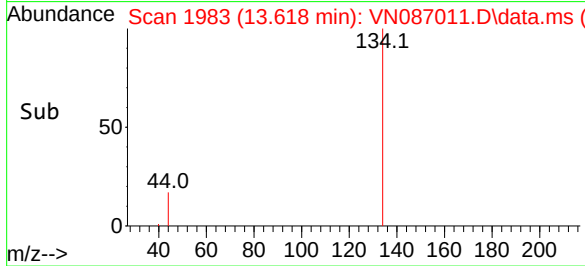
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605-ADL



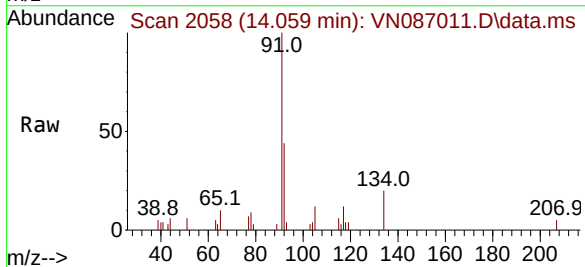
Tgt Ion:105 Resp: 7025
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0

Manual Integrations
APPROVED

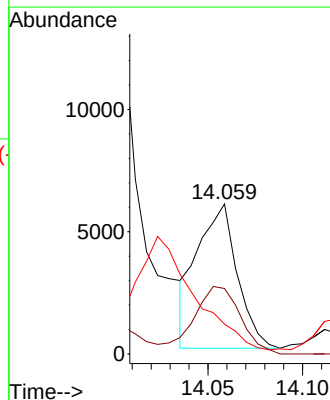
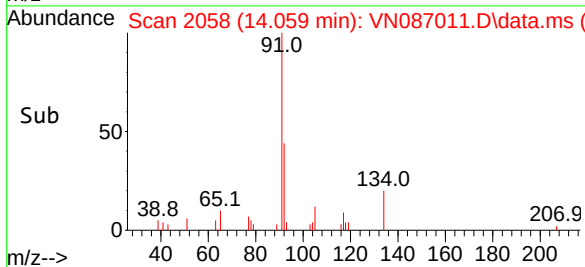
Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



#89
n-Butylbenzene
Concen: 0.582 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN087011.D
Acq: 13 Jun 2025 18:46



Tgt Ion: 91 Resp: 8671
Ion Ratio Lower Upper
91 100
92 55.0 27.5 82.4
134 0.0 13.0 39.0



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-6-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-07		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086989.D	1		06/12/25 19:41	VN061225

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	23.7		1.50	5.00	ug/L
78-93-3	2-Butanone	6.80		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	UQ	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	30.4		0.16	1.00	ug/L
71-43-2	Benzene	530	E	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	UQ	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	260	E	0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-6-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-07			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086989.D	1		06/12/25 19:41	VN061225

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-6-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-07			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086989.D	1		06/12/25 19:41	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000078-78-4	Butane, 2-methyl-	59.1	J		3.28	ug/L
000287-92-3	Cyclopentane	55.5	J		5.41	ug/L
75-65-0	Tert butyl alcohol	9.80	J		5.55	ug/L
000096-14-0	Pentane, 3-methyl-	47.0	J		5.83	ug/L
000096-37-7	Cyclopentane, methyl-	36.3	J		7.34	ug/L
000994-05-8	Butane, 2-methoxy-2-methyl-	130	J		8.78	ug/L
103-65-1	n-propylbenzene	30.0	J		13.0	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	64.5	J		13.1	ug/L
108-67-8	1,3,5-Trimethylbenzene	100	J		13.2	ug/L
000622-96-8	Benzene, 1-ethyl-4-methyl-	41.7	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	510	J		13.5	ug/L
135-98-8	sec-Butylbenzene	1.70	J		13.6	ug/L
99-87-6	p-Isopropyltoluene	2.00	J		13.7	ug/L
000496-11-7	Indane	56.4	J		14.0	ug/L
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	13.9	J		15.0	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\VN061225\
 Data File : VN086989.D
 Acq On : 12 Jun 2025 19:41
 Operator : JC\MD
 Sample : Q2268-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:33:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	198700	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	383576	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	340087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	149213	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	135252	50.840	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.680%			
35) Dibromofluoromethane	8.177	113	116076	51.064	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.120%			
50) Toluene-d8	10.571	98	467889	51.994	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.980%			
62) 4-Bromofluorobenzene	12.847	95	157381	47.073	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.140%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.548	59	7100	9.836	ug/l #	73
25) 2-Butanone	7.506	43	15515	6.766	ug/l	95
31) Cyclohexane	8.265	56	102271	23.702	ug/l #	96
39) Methylcyclohexane	9.606	83	140892	30.360	ug/l	96
40) Benzene	8.618	78	5925137	534.934	ug/l	99
52) Toluene	10.635	92	1774259	262.112	ug/l	99
67) Ethyl Benzene	11.965	91	6902127	534.225	ug/l	99
68) m/p-Xylenes	12.071	106	10625188	2148.355	ug/l	87
69) o-Xylene	12.400	106	4005333	845.591	ug/l	96
73) Isopropylbenzene	12.694	105	280669	25.820	ug/l	99
78) n-propylbenzene	13.035	91	396408	30.008	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	935009	104.183	ug/l	95
84) 1,2,4-Trimethylbenzene	13.482	105	4560220	506.717	ug/l	99
85) sec-Butylbenzene	13.612	105	20575m	1.725	ug/l	
86) p-Isopropyltoluene	13.729	119	19537	1.981	ug/l #	78

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

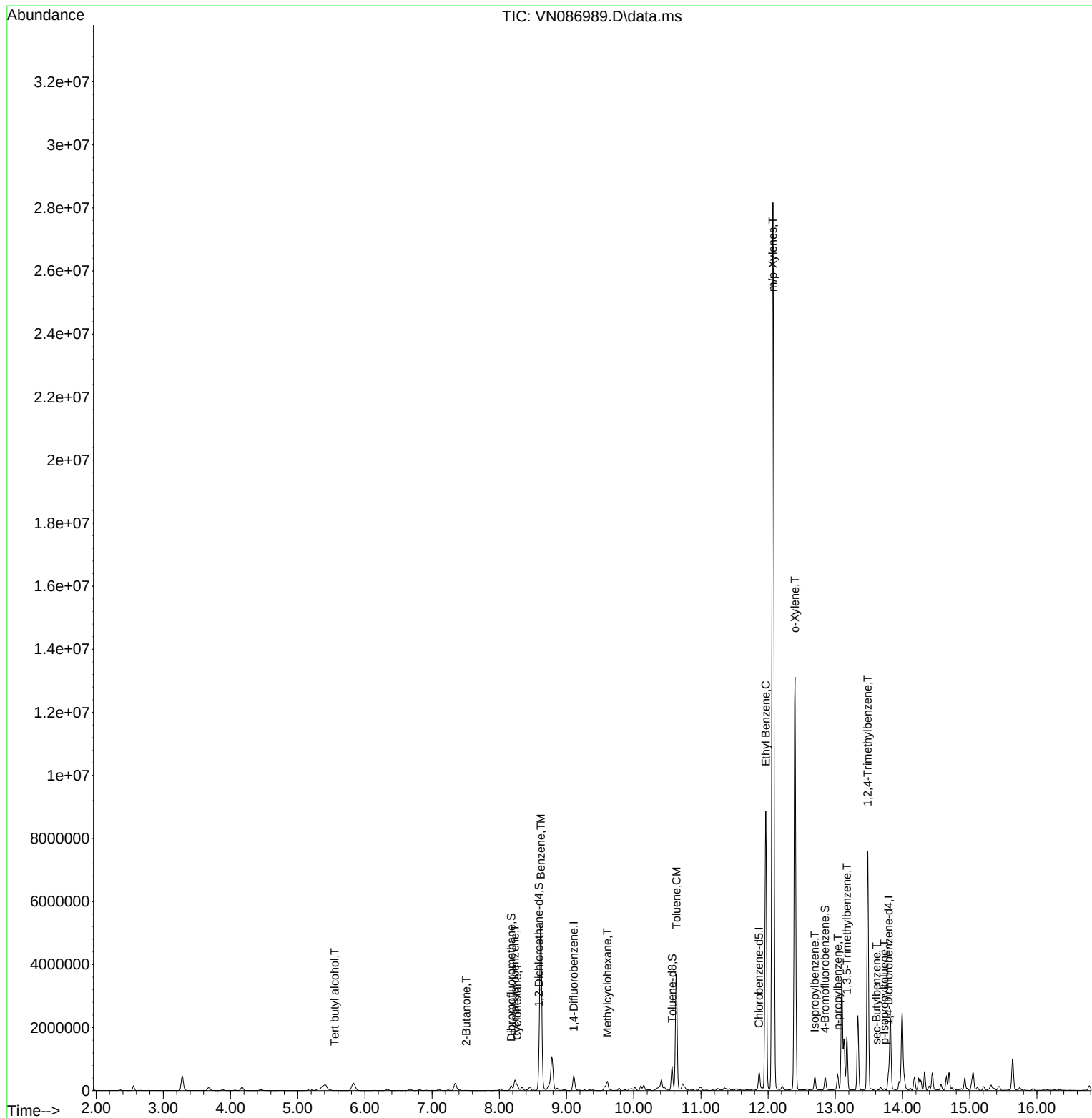
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

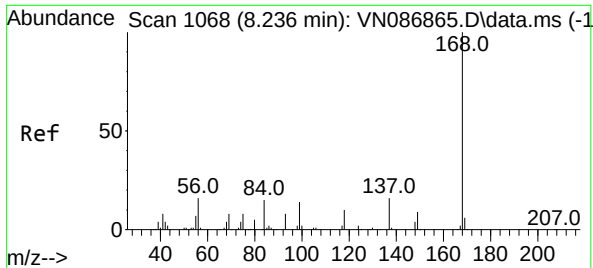
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/13/2025
Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:33:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





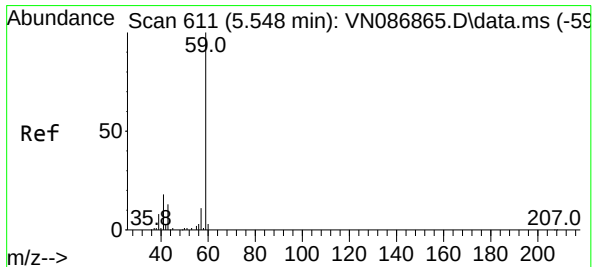
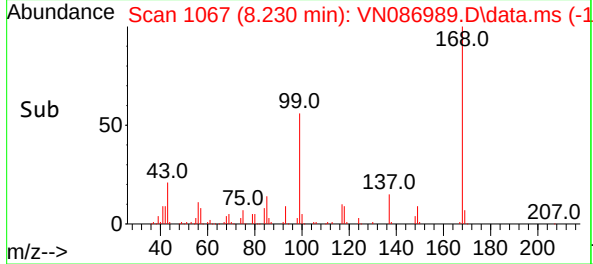
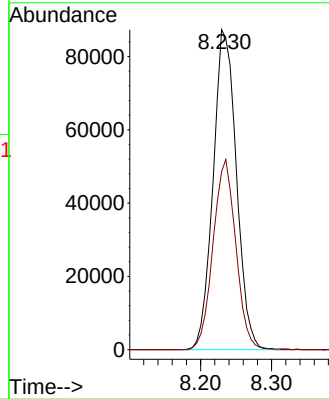
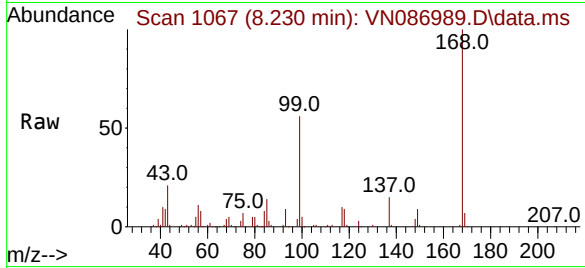
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Tgt Ion:168 Resp: 198700
Ion Ratio Lower Upper
168 100
99 55.7 49.1 73.7

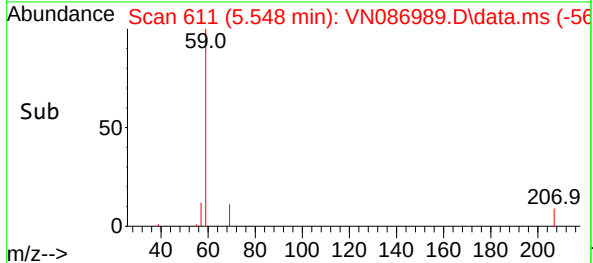
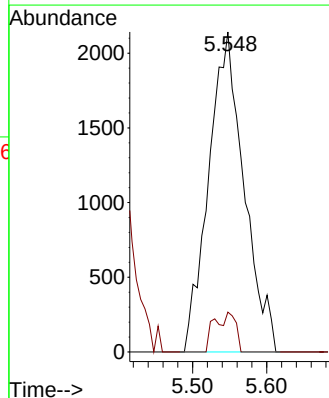
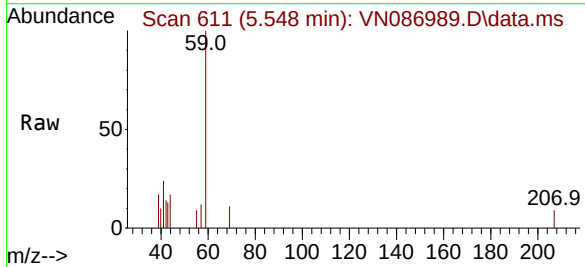
Manual Integrations
APPROVED

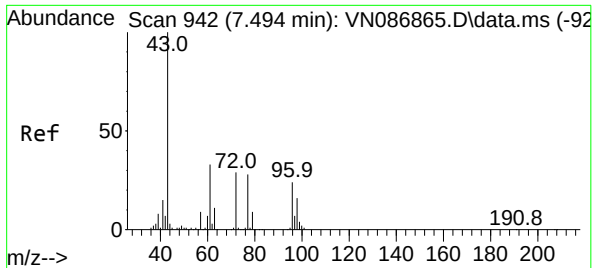
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#11
Tert butyl alcohol
Concen: 9.836 ug/l
RT: 5.548 min Scan# 611
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

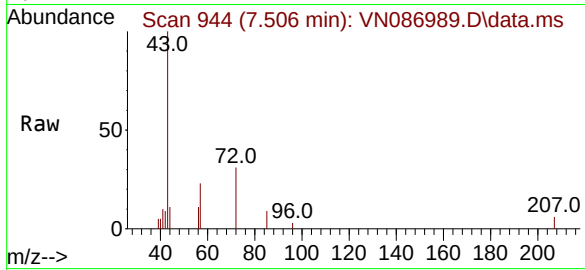
Tgt Ion: 59 Resp: 7100
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#25
2-Butanone
Concen: 6.766 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

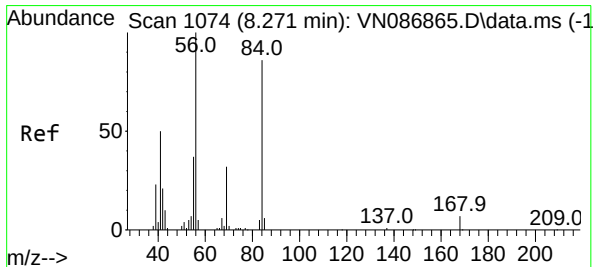
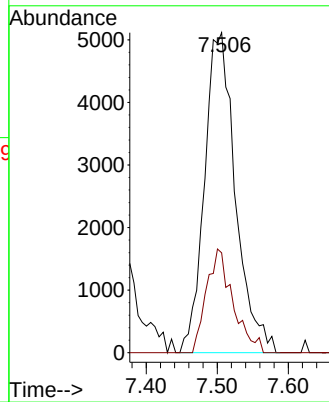
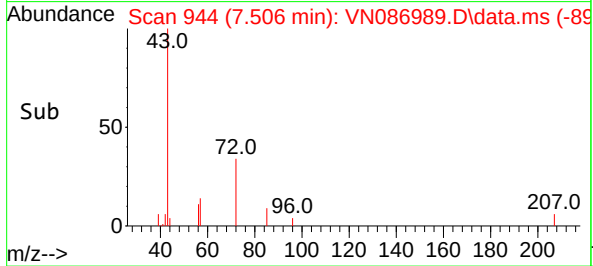
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion: 43 Resp: 1551
Ion Ratio Lower Upper
43 100
72 31.2 23.0 34.6

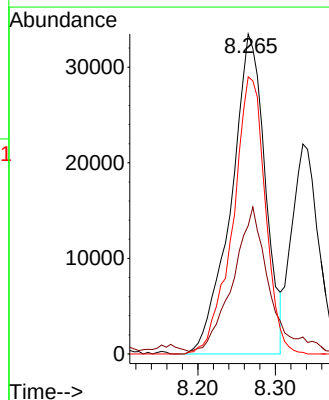
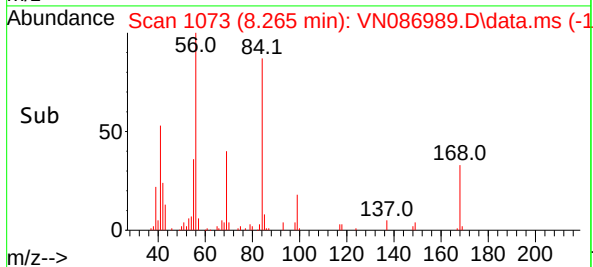
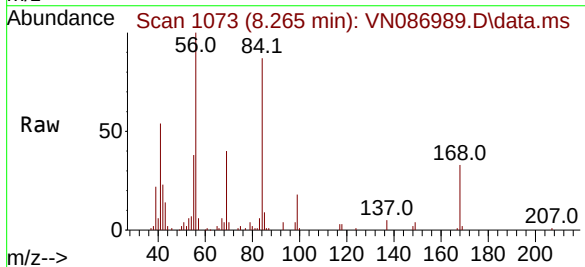
Manual Integrations
APPROVED

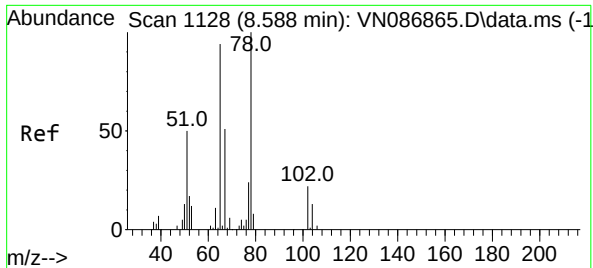
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#31
Cyclohexane
Concen: 23.702 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

Tgt Ion: 56 Resp: 102271
Ion Ratio Lower Upper
56 100
69 38.4 25.4 38.0#
84 86.6 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 50.840 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605

Tgt Ion: 65 Resp: 135252

Ion Ratio Lower Upper

65 100

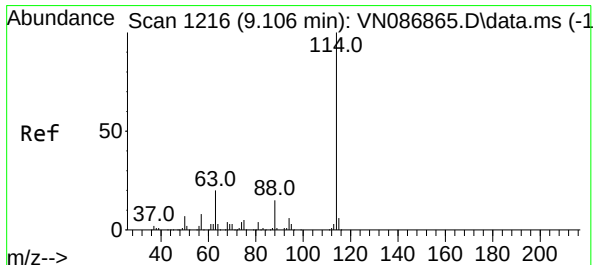
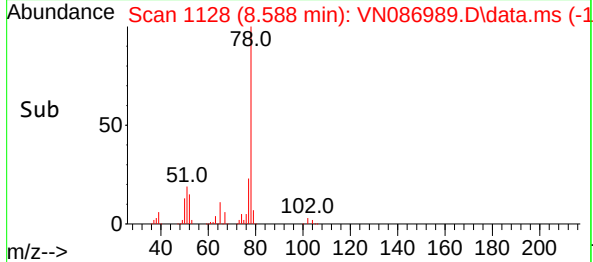
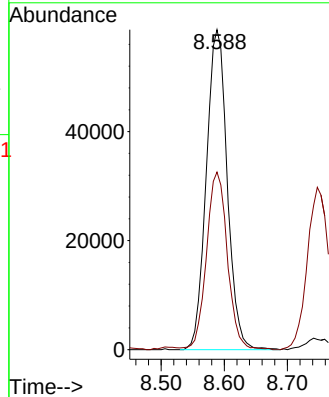
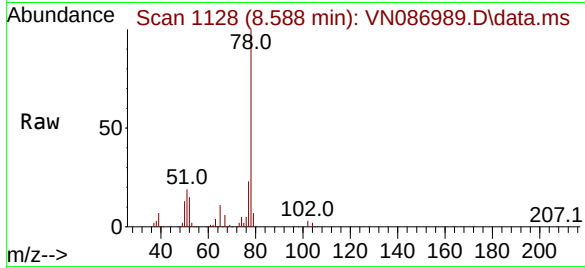
67 55.5 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

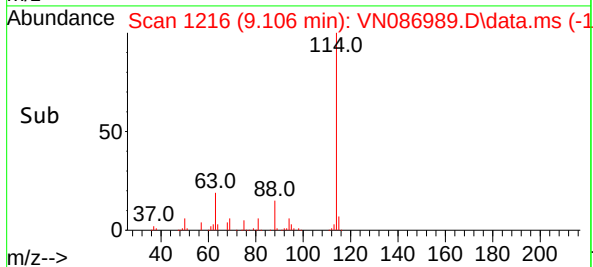
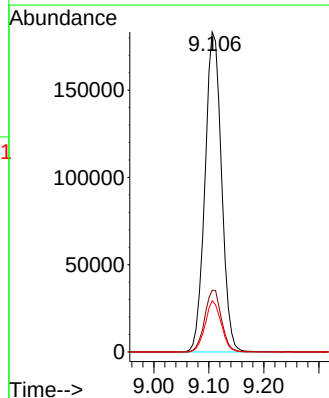
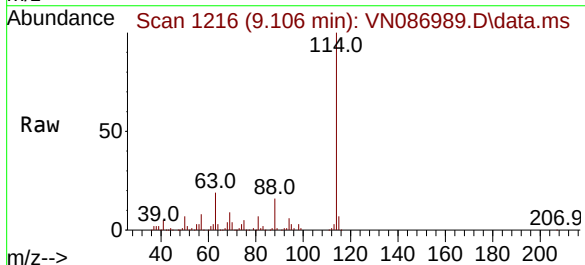
Tgt Ion:114 Resp: 383576

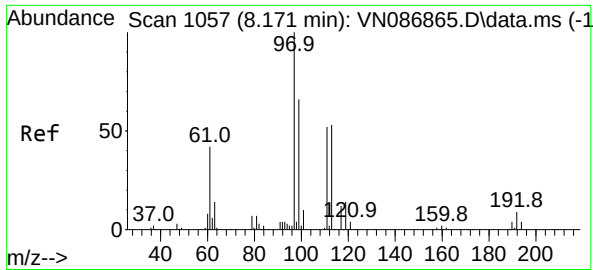
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 16.0 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.064 ug/l

RT: 8.177 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605

Tgt Ion:113 Resp: 116070

Ion Ratio Lower Upper

113 100

111 102.6 84.2 126.2

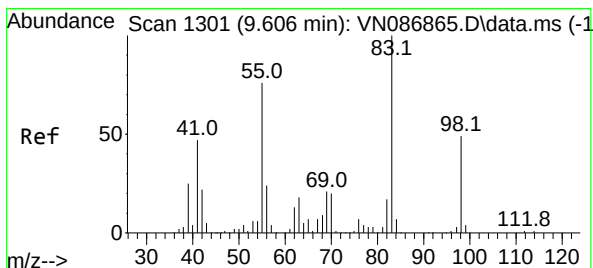
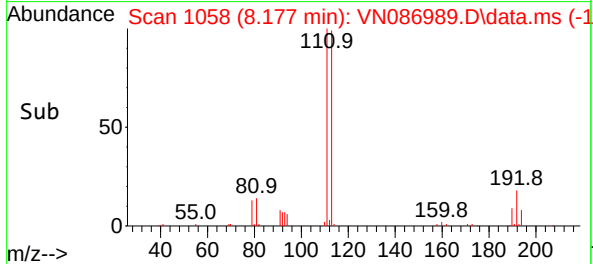
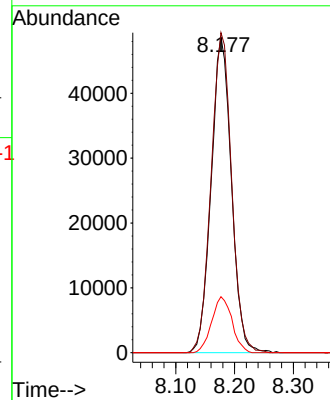
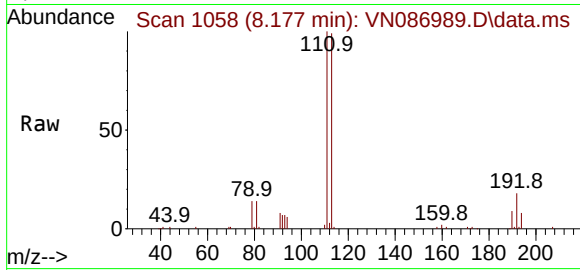
192 17.8 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#39

Methylcyclohexane

Concen: 30.360 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. 0.000 min

Lab File: VN086989.D

Acq: 12 Jun 2025 19:41

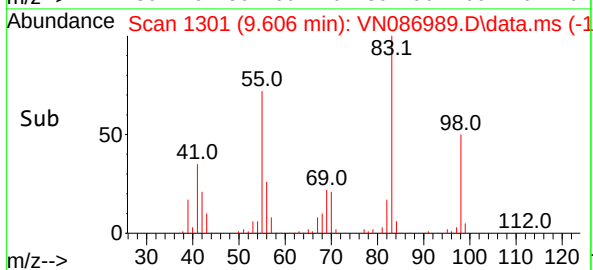
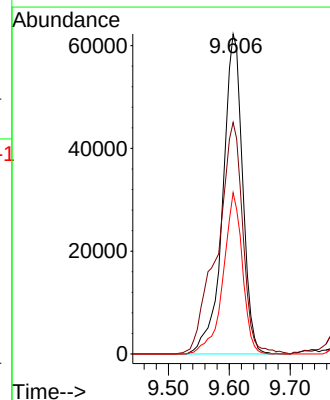
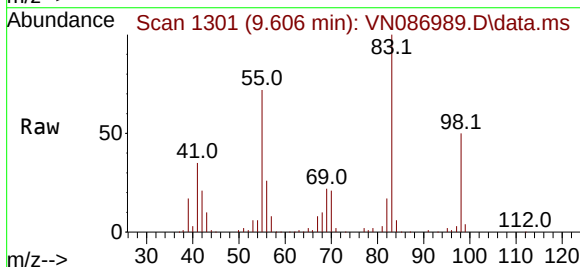
Tgt Ion: 83 Resp: 140892

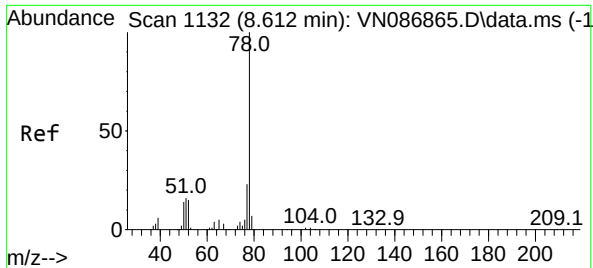
Ion Ratio Lower Upper

83 100

55 72.0 61.0 91.6

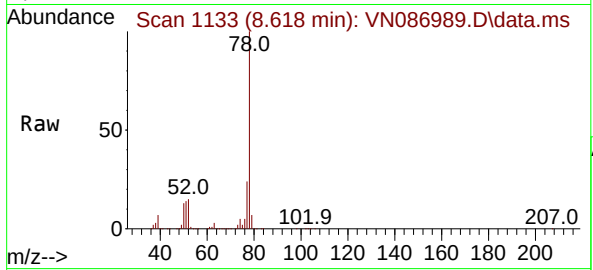
98 50.4 38.9 58.3





#40
Benzene
Concen: 534.934 ug/l
RT: 8.618 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

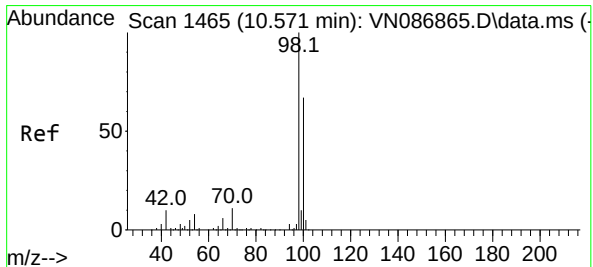
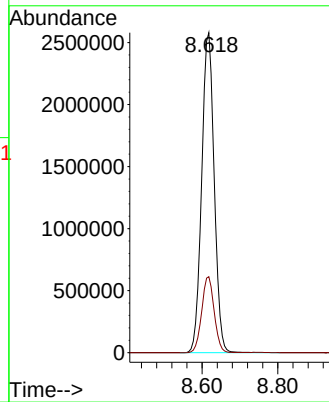
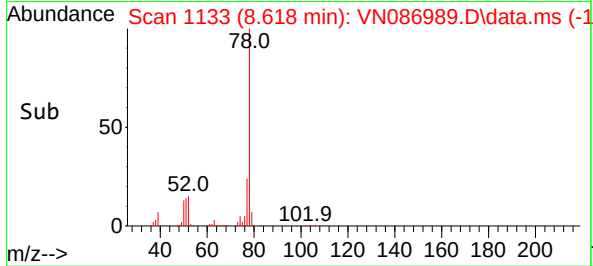
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion: 78 Resp: 592513
Ion Ratio Lower Upper
78 100
77 23.7 18.7 28.1

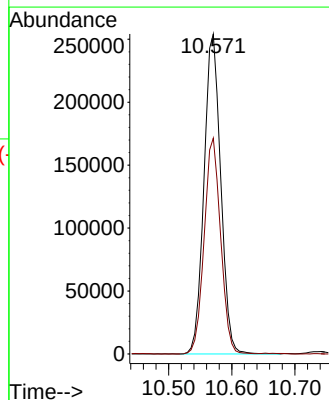
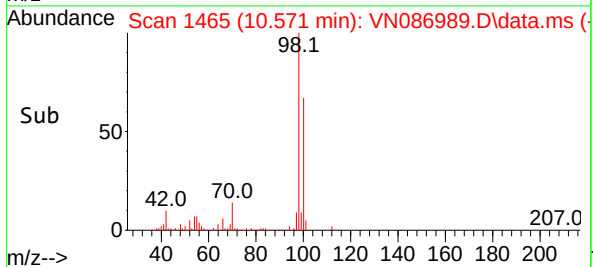
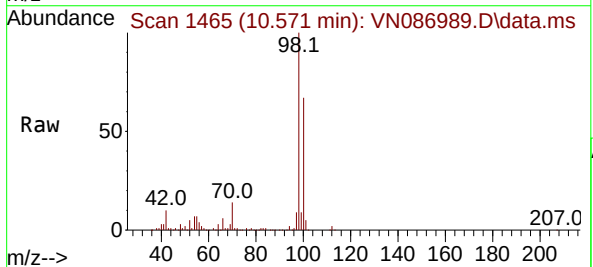
Manual Integrations
APPROVED

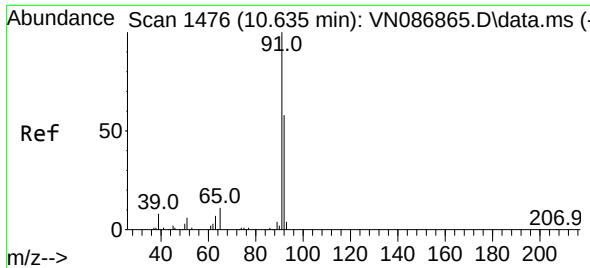
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#50
Toluene-d8
Concen: 51.994 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

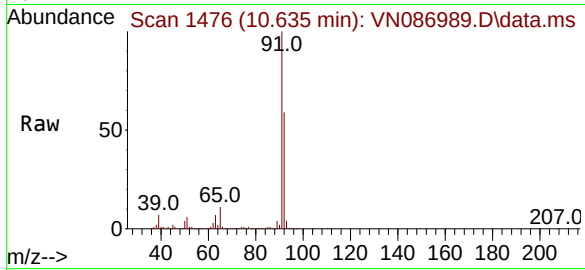
Tgt Ion: 98 Resp: 467889
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0





#52
Toluene
Concen: 262.112 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

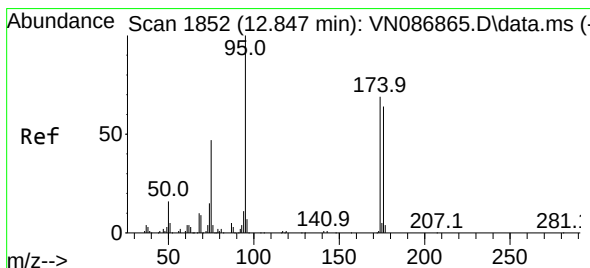
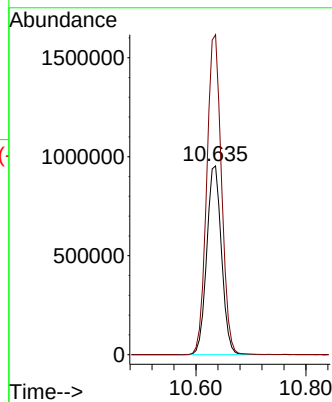
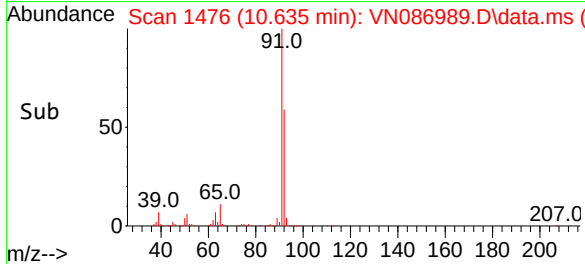
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion: 92 Resp: 1774259
Ion Ratio Lower Upper
92 100
91 169.6 136.5 204.7

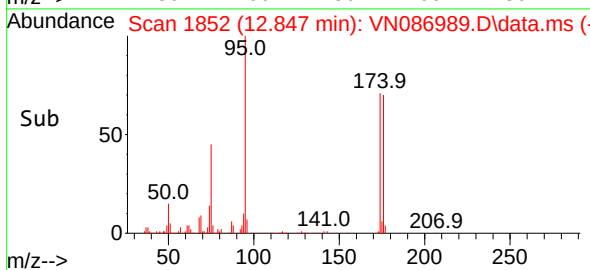
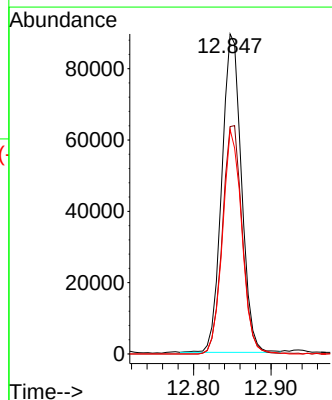
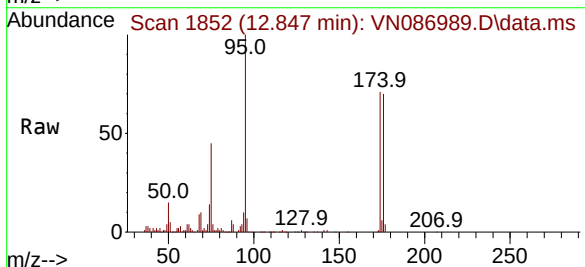
Manual Integrations
APPROVED

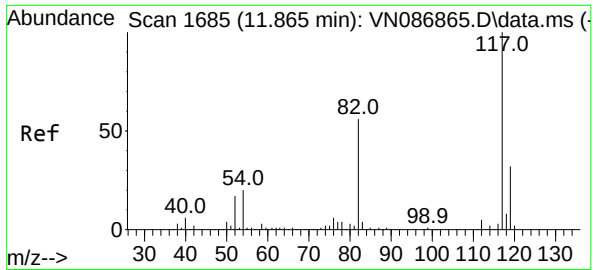
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 47.073 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

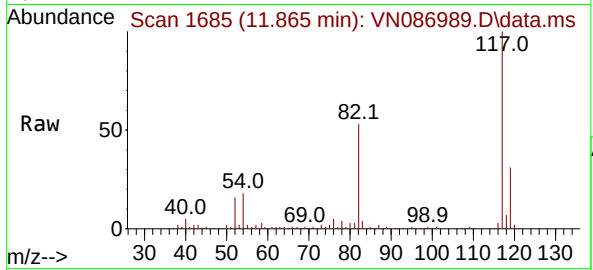
Tgt Ion: 95 Resp: 157381
Ion Ratio Lower Upper
95 100
174 72.4 0.0 141.8
176 69.2 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

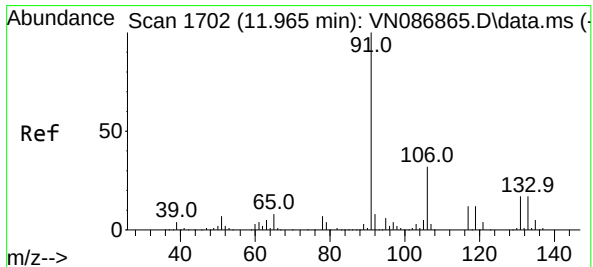
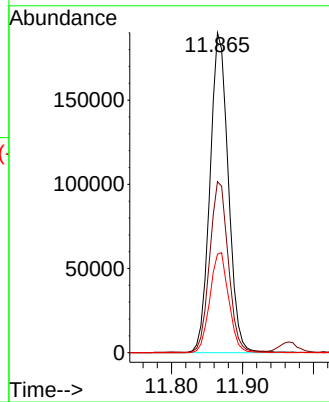
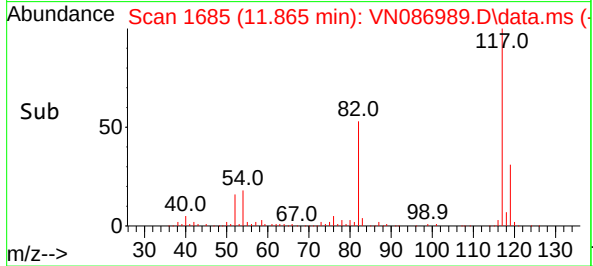
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion: 117 Resp: 34008
Ion Ratio Lower Upper
117 100
82 53.3 44.6 67.0
119 30.8 25.5 38.3

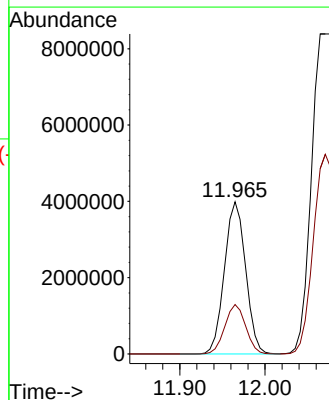
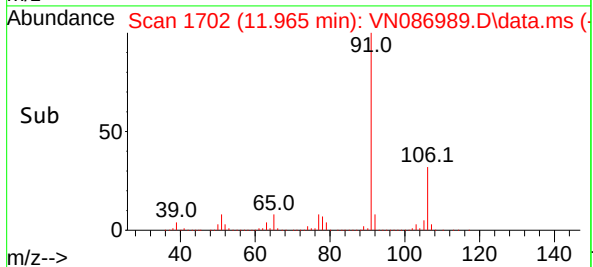
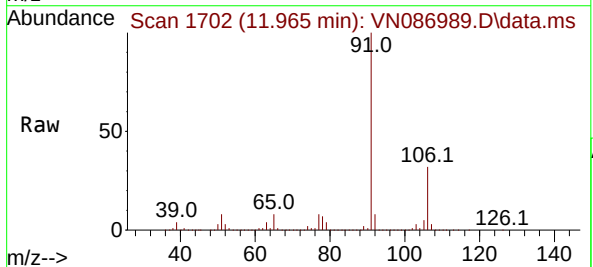
Manual Integrations
APPROVED

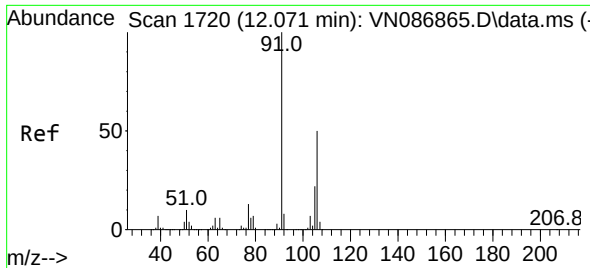
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#67
Ethyl Benzene
Concen: 534.225 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

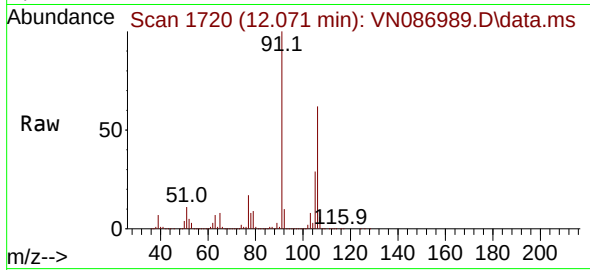
Tgt Ion: 91 Resp: 6902127
Ion Ratio Lower Upper
91 100
106 32.5 25.4 38.2





#68
m/p-Xylenes
Concen: 2148.355 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

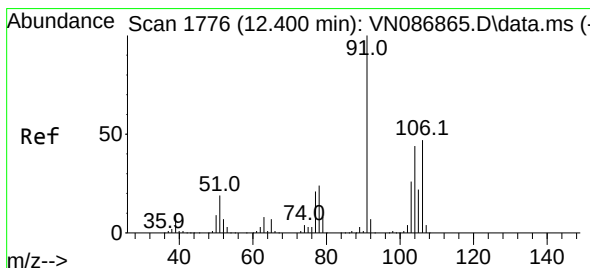
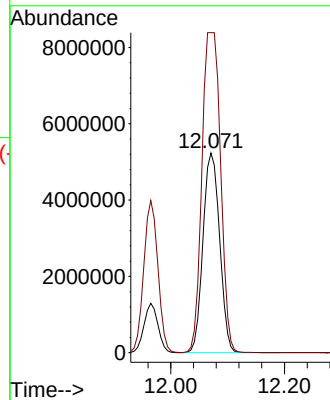
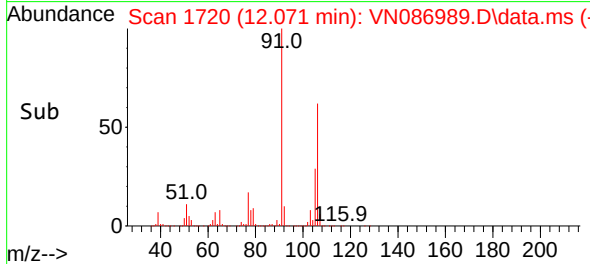
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion:106 Resp:10625188
Ion Ratio Lower Upper
106 100
91 179.9 159.4 239.0

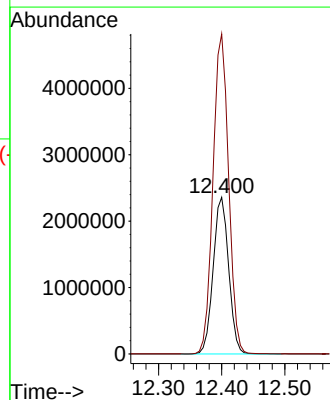
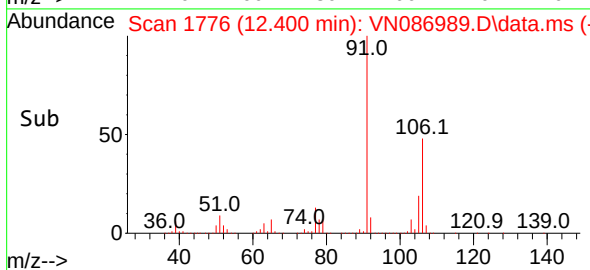
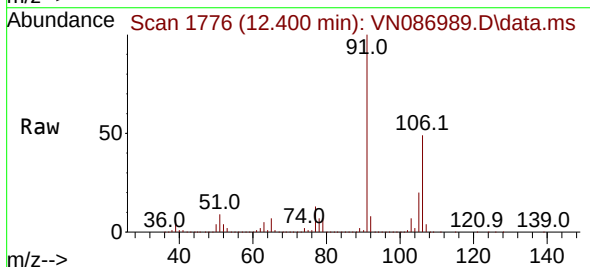
Manual Integrations
APPROVED

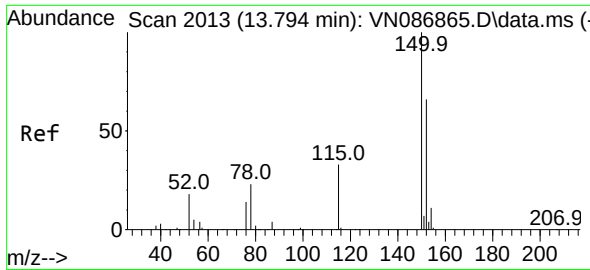
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#69
o-Xylene
Concen: 845.591 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

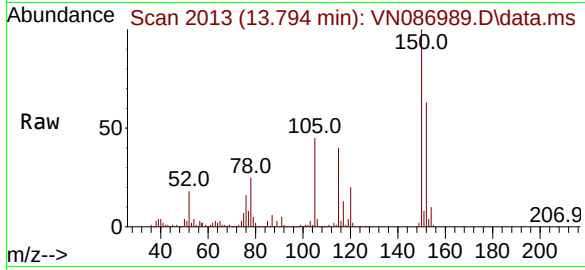
Tgt Ion:106 Resp: 4005333
Ion Ratio Lower Upper
106 100
91 206.1 106.1 318.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

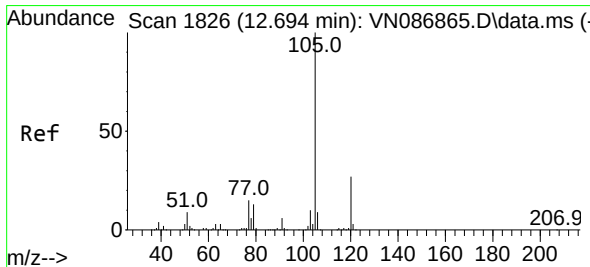
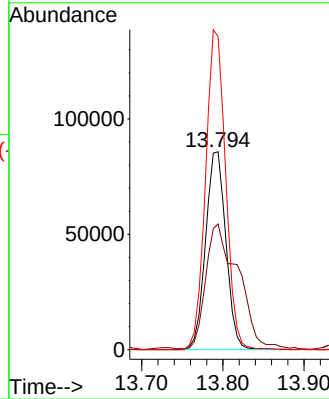
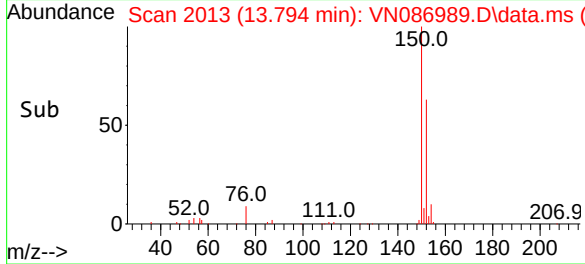
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion:152 Resp: 14921
Ion Ratio Lower Upper
152 100
115 100.9 30.1 90.5
150 159.3 0.0 345.0

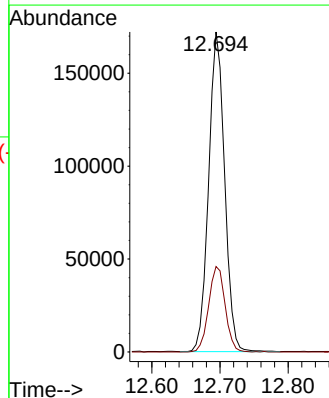
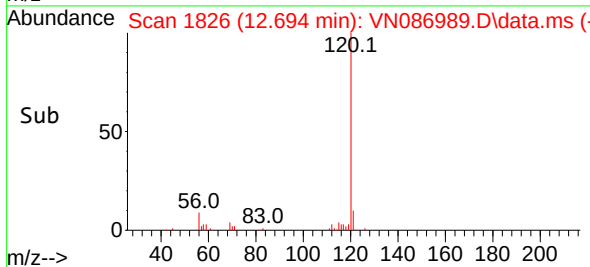
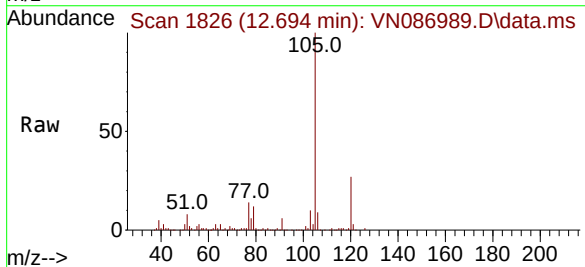
Manual Integrations
APPROVED

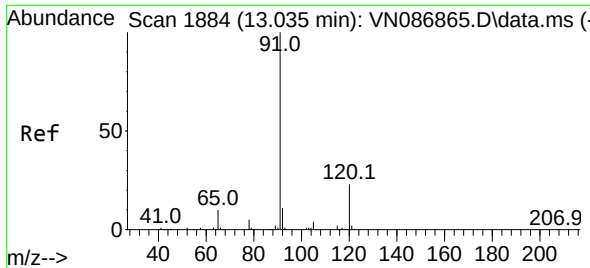
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#73
Isopropylbenzene
Concen: 25.820 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

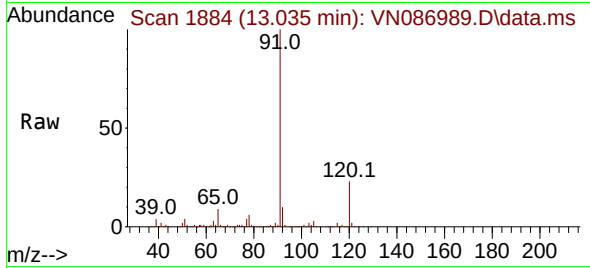
Tgt Ion:105 Resp: 280669
Ion Ratio Lower Upper
105 100
120 27.5 13.5 40.4





#78
n-propylbenzene
Concen: 30.008 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

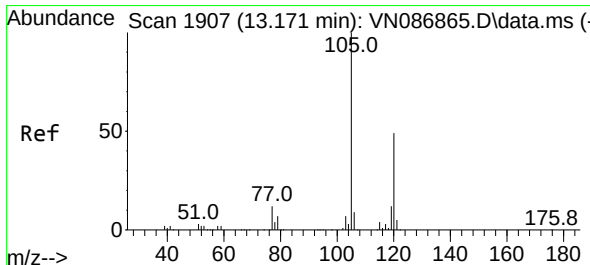
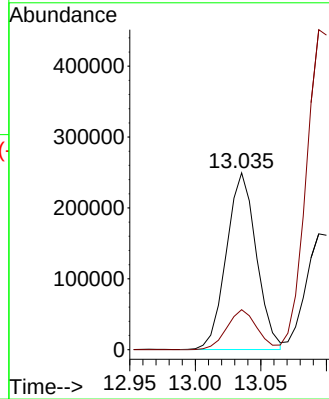
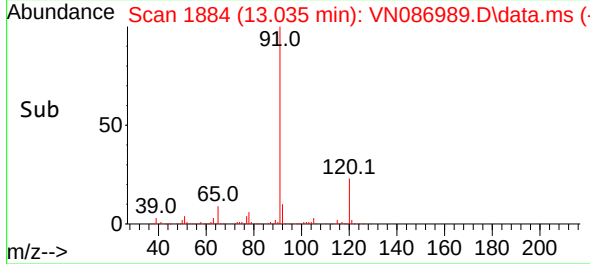
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion: 91 Resp: 396408
Ion Ratio Lower Upper
91 100
120 22.6 11.4 34.2

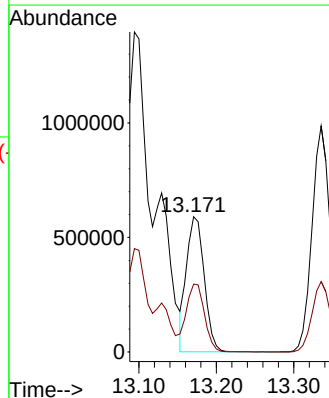
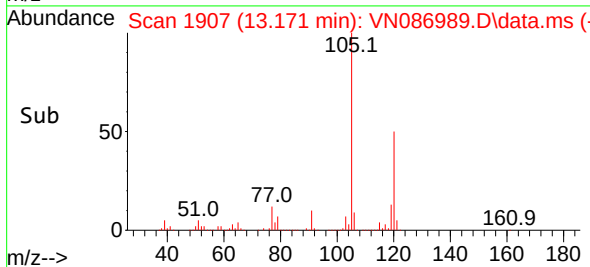
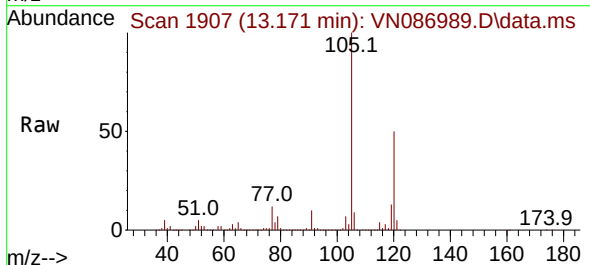
Manual Integrations
APPROVED

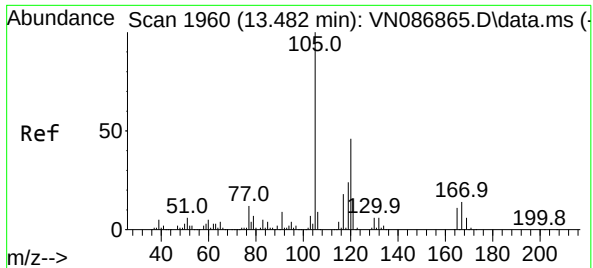
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#80
1,3,5-Trimethylbenzene
Concen: 104.183 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

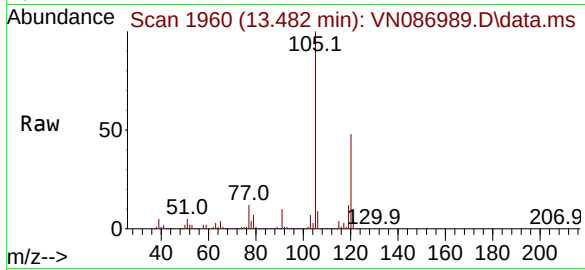
Tgt Ion:105 Resp: 935009
Ion Ratio Lower Upper
105 100
120 53.5 24.9 74.6





#84
1,2,4-Trimethylbenzene
Concen: 506.717 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

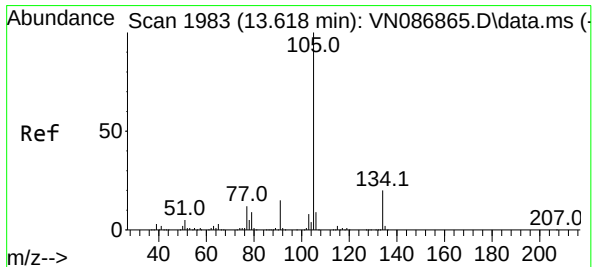
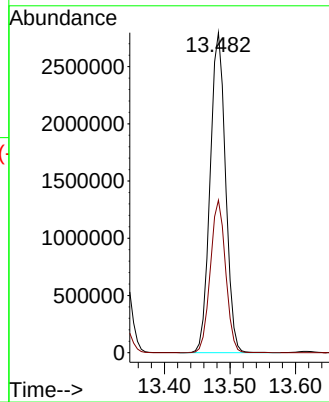
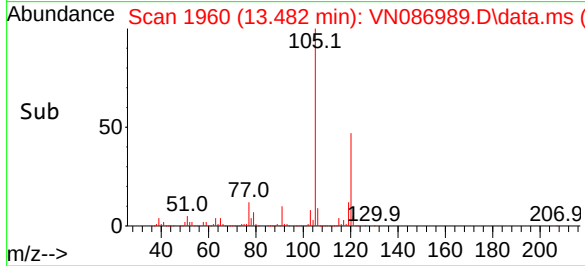
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



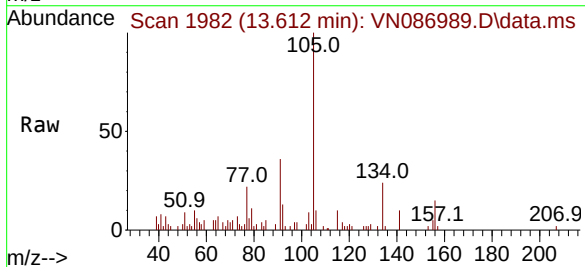
Tgt Ion:105 Resp: 4560220
Ion Ratio Lower Upper
105 100
120 47.3 23.2 69.6

Manual Integrations
APPROVED

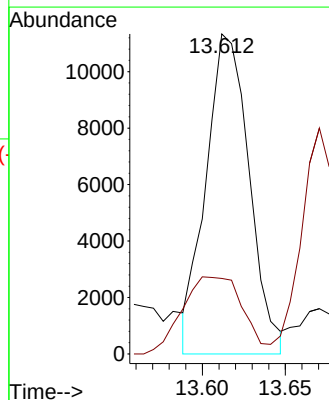
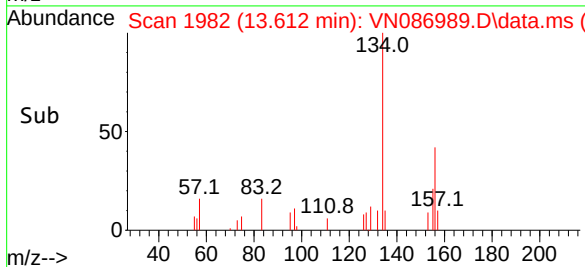
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

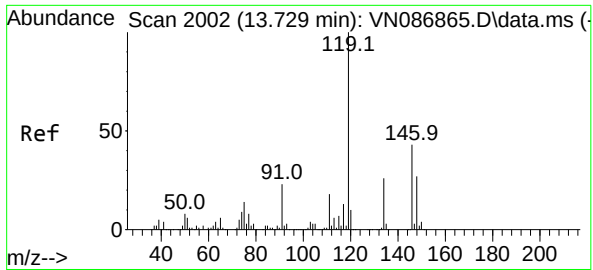


#85
sec-Butylbenzene
Concen: 1.725 ug/l m
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41



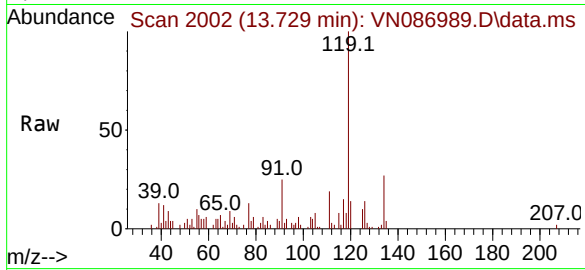
Tgt Ion:105 Resp: 20575
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0#





#86
p-Isopropyltoluene
Concen: 1.981 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086989.D
Acq: 12 Jun 2025 19:41

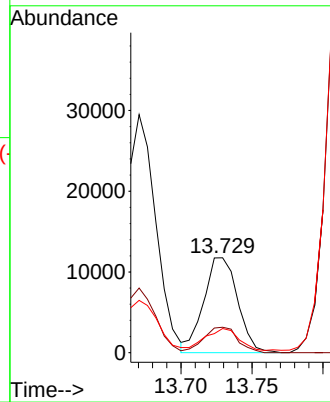
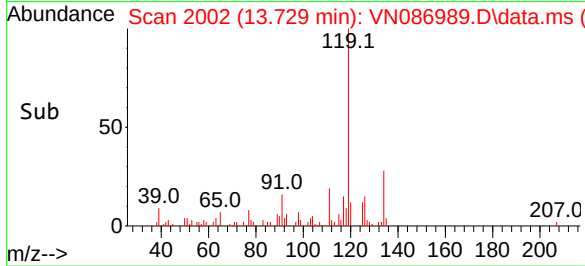
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605



Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.5	40.4
91	0.0	11.5	34.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086989.D
 Acq On : 12 Jun 2025 19:41
 Operator : JC\MD
 Sample : Q2268-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086989.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.283	215	226	240	rBV	460225	1128131	1.97%	0.649%
2	5.406	573	587	615	rVB6	179914	1059646	1.85%	0.610%
3	5.830	643	659	678	rBV3	235062	897063	1.57%	0.516%
4	7.342	906	916	936	rVB	225246	693123	1.21%	0.399%
5	8.236	1062	1068	1080	rVB3	304665	953920	1.67%	0.549%
6	8.618	1120	1133	1146	rBV	5294679	12510703	21.87%	7.202%
7	8.783	1146	1161	1170	rVB	1021055	2833789	4.95%	1.631%
8	9.106	1207	1216	1229	rBV	462617	1055569	1.85%	0.608%
9	9.606	1280	1301	1317	rBV3	294606	964926	1.69%	0.555%
10	10.571	1457	1465	1469	rBV	729961	1334610	2.33%	0.768%
11	10.635	1469	1476	1484	rVV	3687189	6933990	12.12%	3.992%
12	11.865	1677	1685	1691	rBV	553713	1046448	1.83%	0.602%
13	11.965	1695	1702	1711	rVV	8841073	15224400	26.61%	8.764%
14	12.071	1711	1720	1738	rVB	28133230	57211618	100.00%	32.934%
15	12.400	1764	1776	1790	rVB	13097512	22363208	39.09%	12.873%
16	12.694	1820	1826	1834	rVB	415195	679304	1.19%	0.391%
17	12.847	1846	1852	1863	rBV	389800	706114	1.23%	0.406%
18	13.035	1878	1884	1888	rBV	470513	749189	1.31%	0.431%
19	13.094	1888	1894	1898	rVV	3420788	6005325	10.50%	3.457%
20	13.129	1898	1900	1904	rVV	1621199	2222745	3.89%	1.280%
21	13.171	1904	1907	1917	rVB	1623257	2555569	4.47%	1.471%
22	13.335	1928	1935	1947	rBV	2360205	3881486	6.78%	2.234%
23	13.482	1952	1960	1967	rBV	7586237	12335327	21.56%	7.101%
24	13.818	2006	2017	2033	rBV2	2289165	4653999	8.13%	2.679%
25	13.994	2041	2047	2062	rVB2	2476986	5249100	9.17%	3.022%
26	14.176	2072	2078	2084	rBV2	394534	700432	1.22%	0.403%
27	14.241	2084	2089	2092	rVV	366798	627070	1.10%	0.361%
28	14.329	2099	2104	2110	rVB	567127	884786	1.55%	0.509%
29	14.441	2118	2123	2132	rVB2	538383	944044	1.65%	0.543%
30	14.653	2152	2159	2162	rBV	422527	685474	1.20%	0.395%
31	14.694	2162	2166	2170	rVB	502510	757225	1.32%	0.436%
32	14.923	2200	2205	2211	rBV	354707	603724	1.06%	0.348%
33	15.047	2217	2226	2232	rBV2	561037	1294962	2.26%	0.745%
34	15.635	2313	2326	2337	rBV	972584	1968370	3.44%	1.133%

Sum of corrected areas: 173715389

Instrument :

MSVOA_N

ClientSampleId :

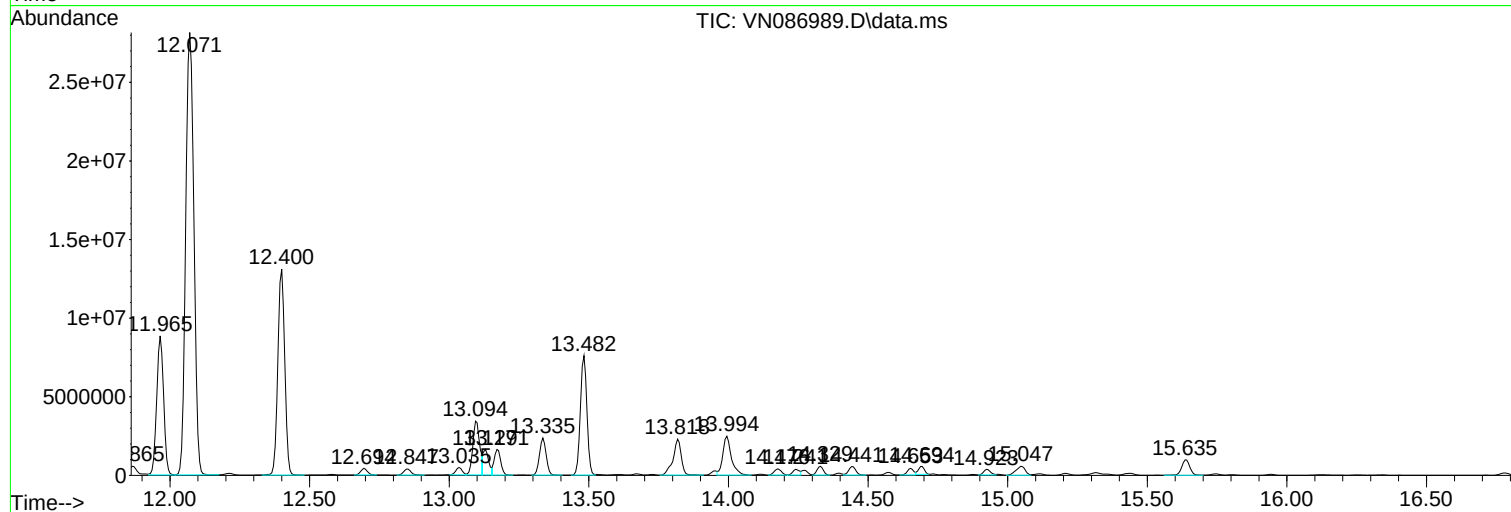
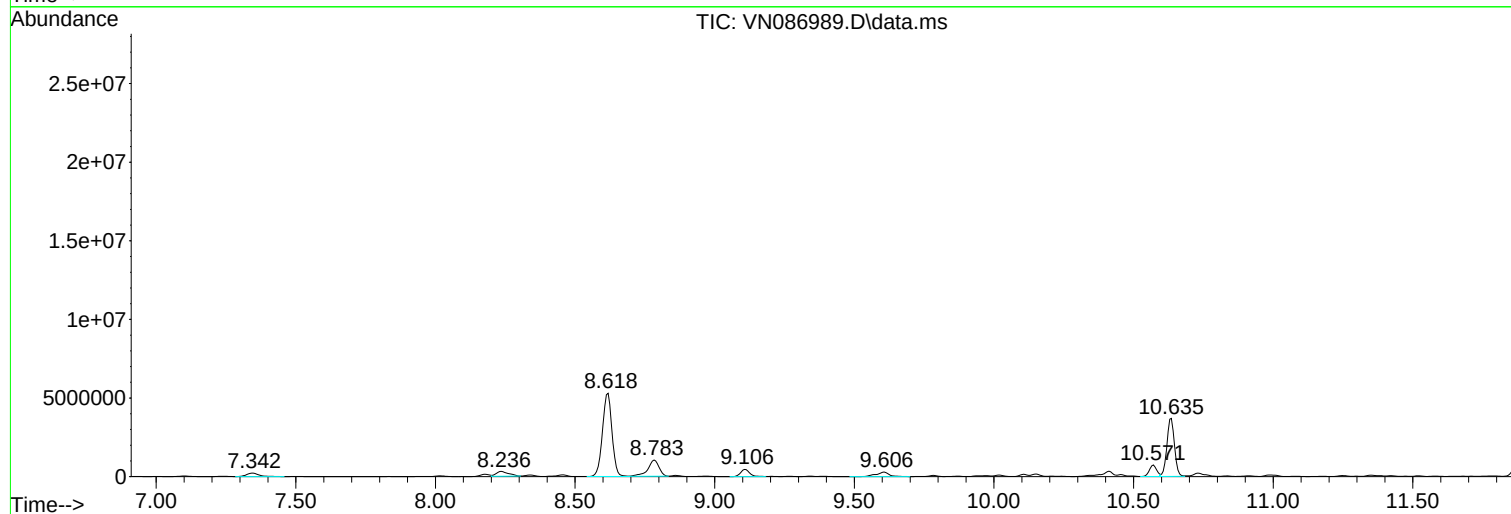
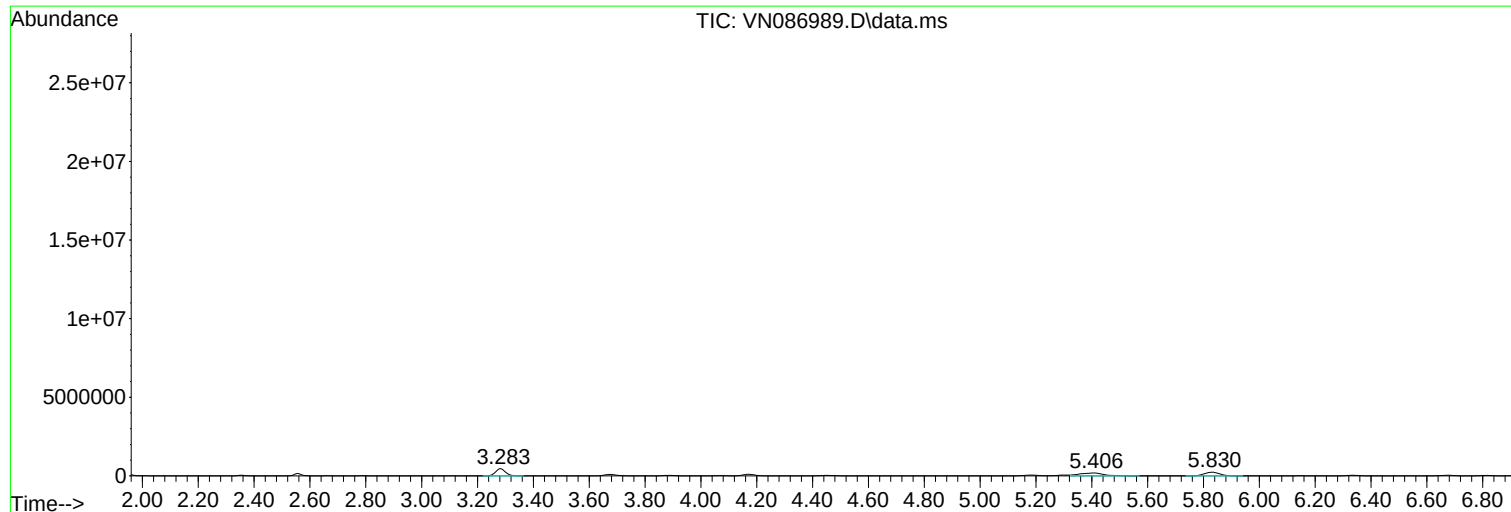
MW-6-20250605

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

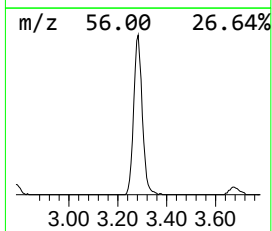
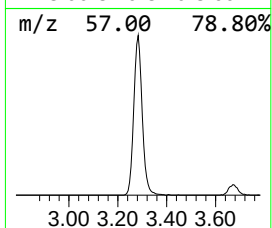
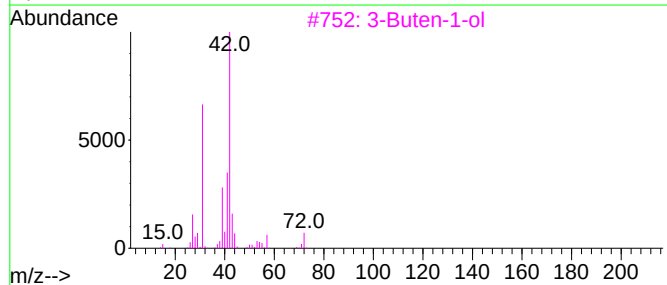
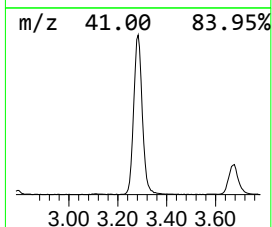
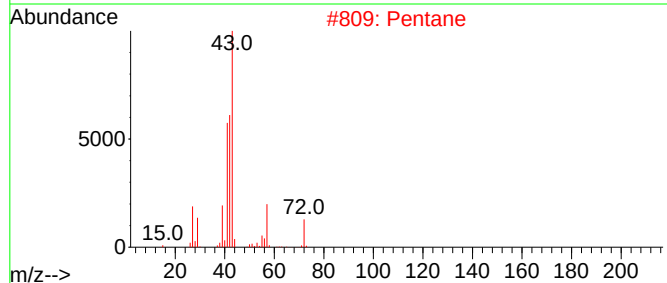
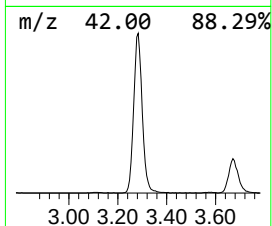
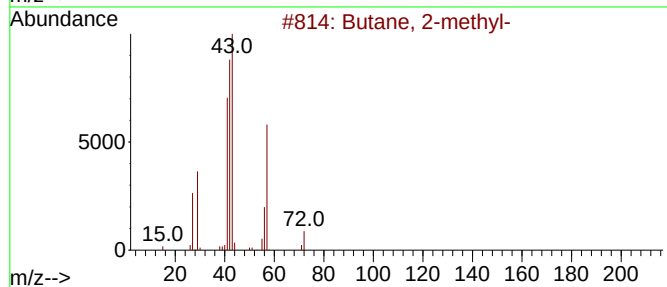
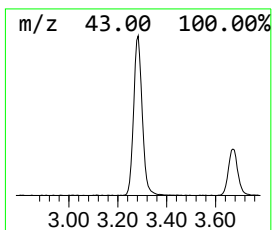
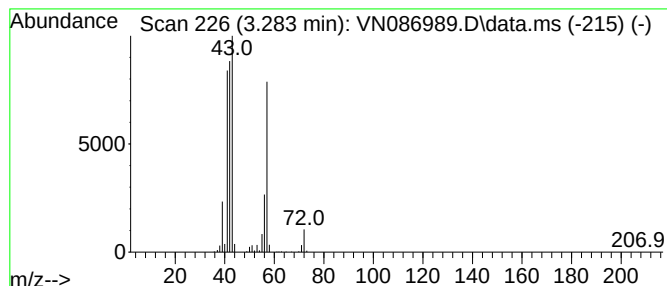
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Quant Title : SW846 8260

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

Peak Number 1 Butane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.283	59.13 ug/l	1128130	Pentafluorobenzene	8.230

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butane, 2-methyl-	72	C5H12	000078-78-4	91
2		Pentane	72	C5H12	000109-66-0	46
3		3-Buten-1-ol	72	C4H8O	000627-27-0	43
4		1-Butanesulfonyl chloride	156	C4H9ClO2S	002386-60-9	12
5		Butane, 1-chloro-2-methyl-	106	C5H11Cl	000616-13-7	10



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

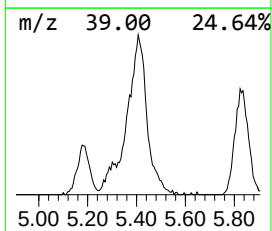
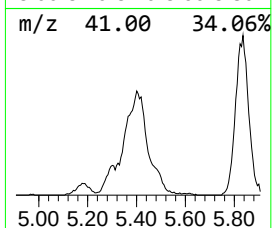
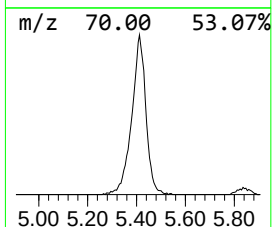
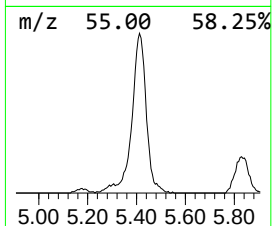
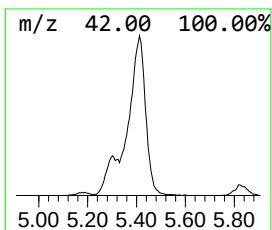
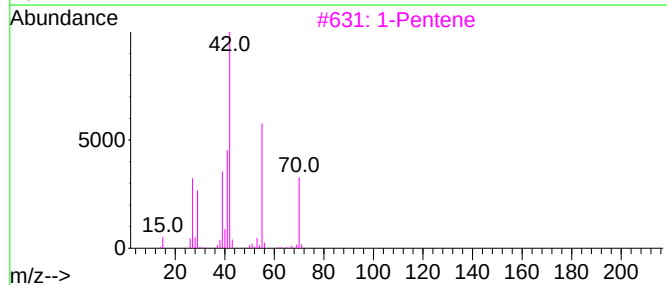
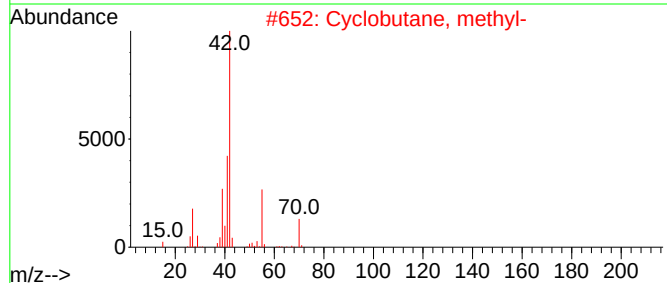
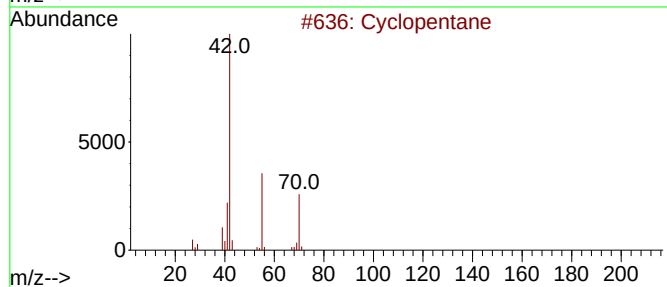
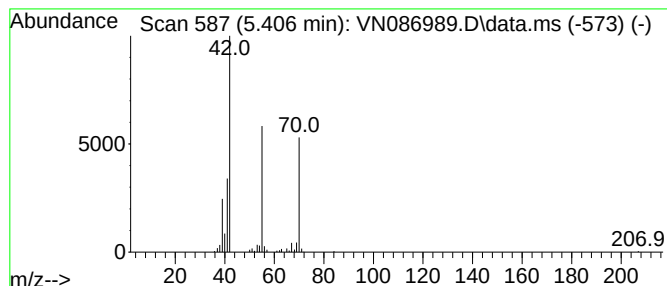
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Quant Title : SW846 8260

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

Peak Number 2 Cyclopentane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.406	55.54 ug/l	1059650	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane	70	C5H10	000287-92-3	86
2			Cyclobutane, methyl-	70	C5H10	000598-61-8	80
3			1-Pentene	70	C5H10	000109-67-1	64
4			Formic acid, pentyl ester	116	C6H12O2	000638-49-3	56
5			2-Pentene, (Z)-	70	C5H10	000627-20-3	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

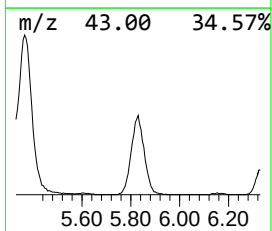
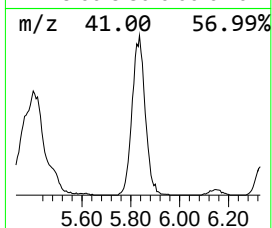
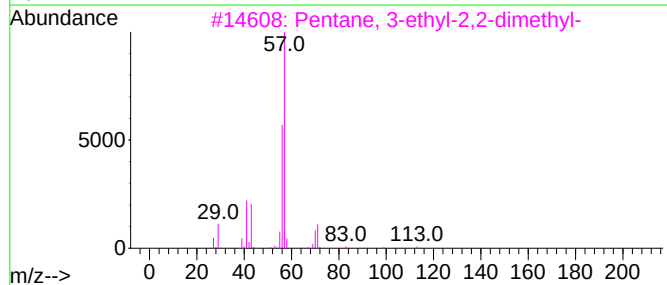
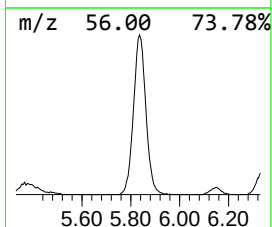
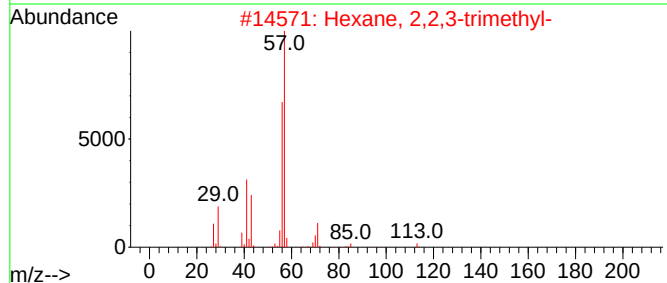
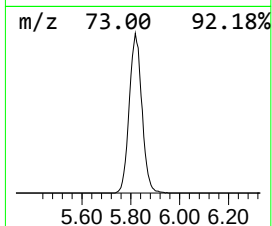
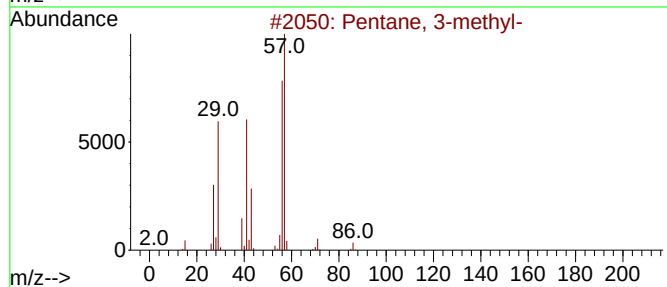
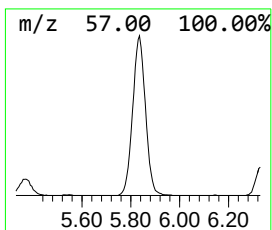
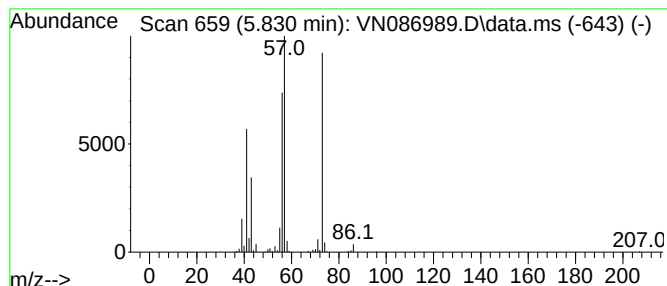
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 3 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.830	47.02 ug/l	897063	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 3-methyl-	86	C6H14	000096-14-0	68
2			Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	59
3			Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	53
4			3,4-Dimethyldihydrofuran-2,5-dione	128	C6H8O3	007475-92-5	43
5			Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

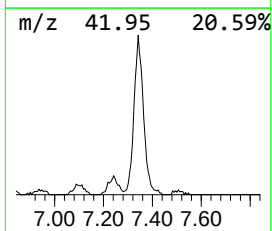
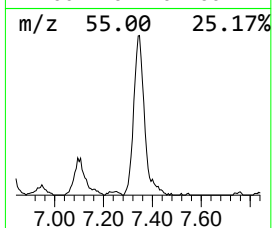
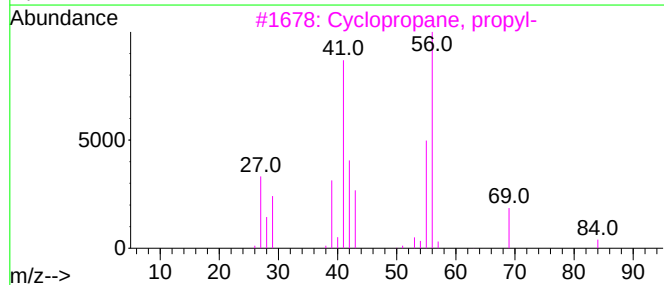
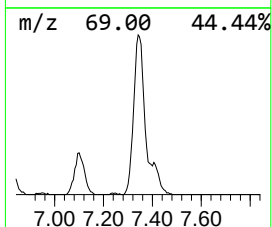
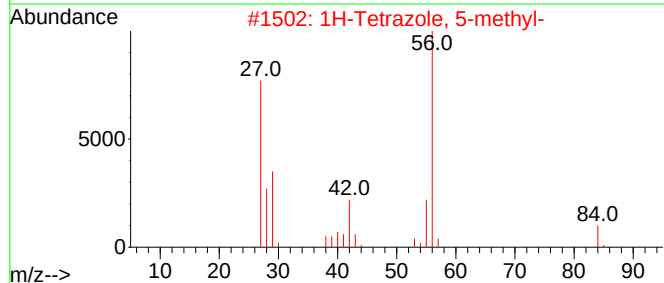
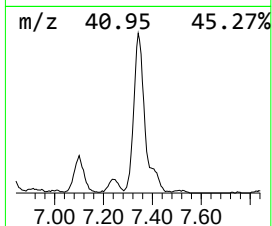
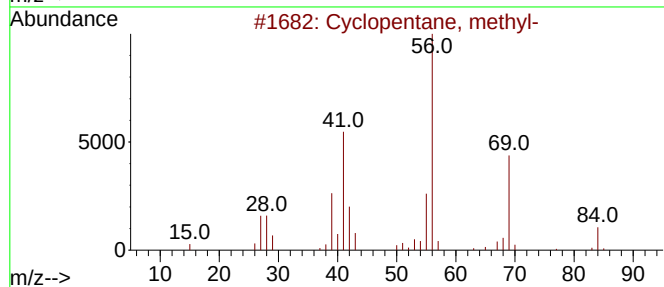
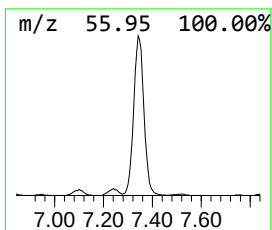
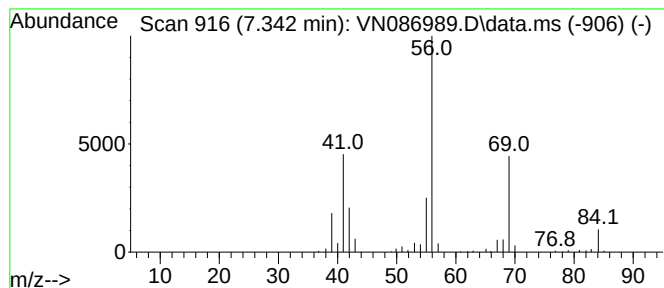
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Quant Title : SW846 8260

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

Peak Number 4 Cyclopentane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.342	36.33 ug/l	693123	Pentafluorobenzene	8.230

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2			1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	80
3			Cyclopropane, propyl-	84	C6H12	002415-72-7	78
4			Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5			Cyclohexane	84	C6H12	000110-82-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

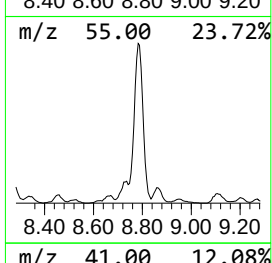
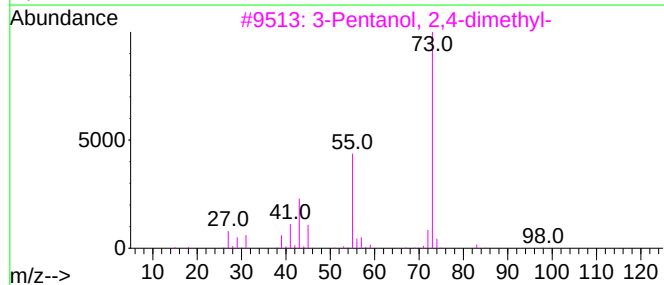
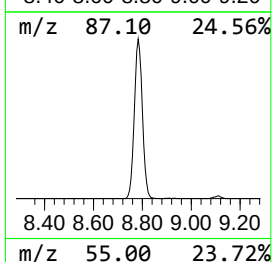
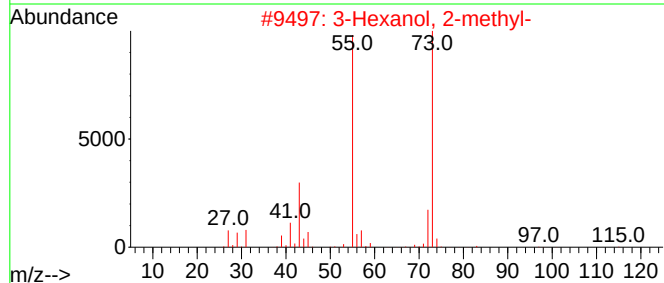
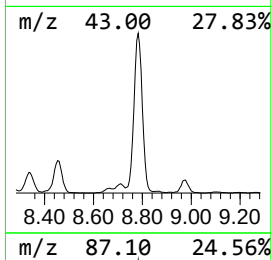
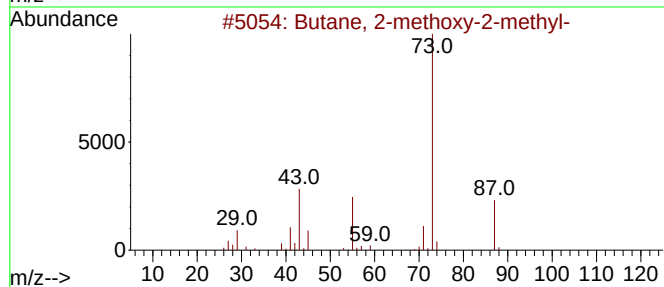
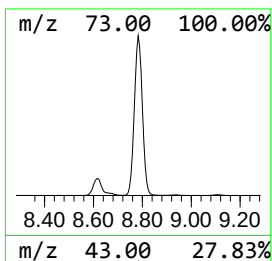
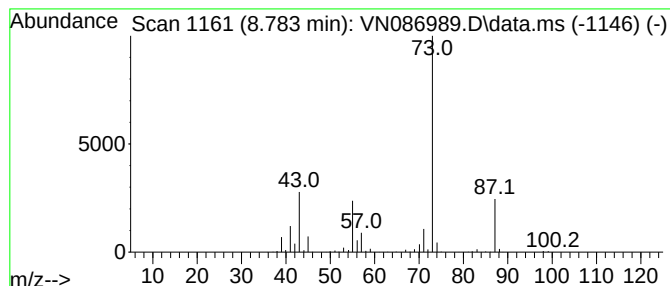
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Quant Title : SW846 8260

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

Peak Number 5 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.783	134.23 ug/l	2833790	1,4-Difluorobenzene	9.106

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	72
2			3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	32
3			3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	23
4			N-Ethylformamide	73	C3H7NO	000627-45-2	9
5			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

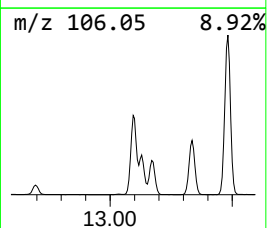
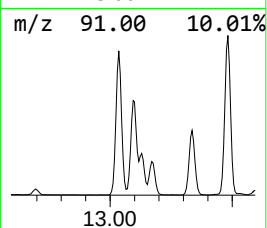
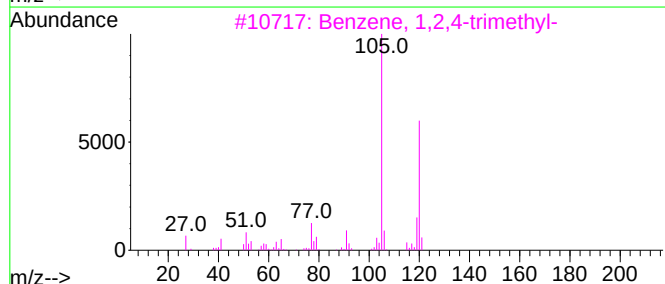
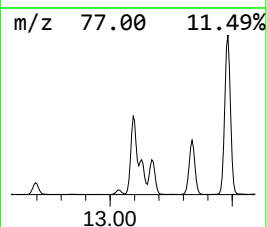
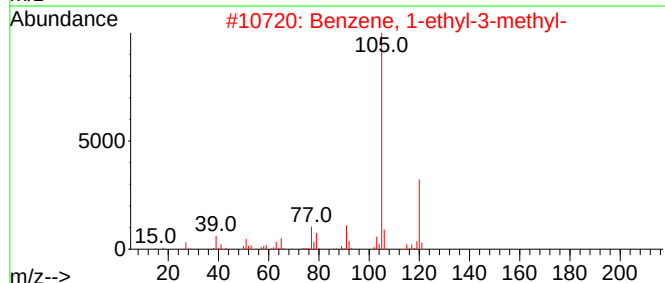
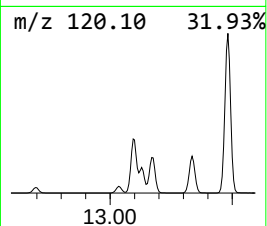
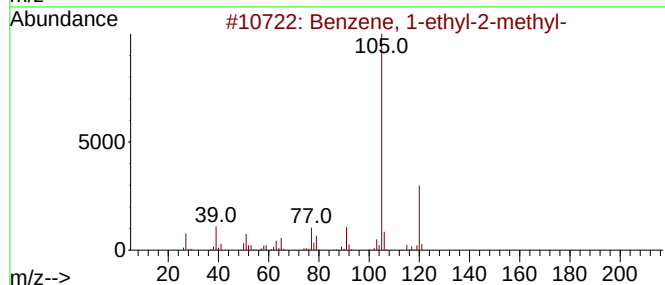
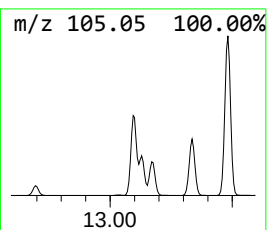
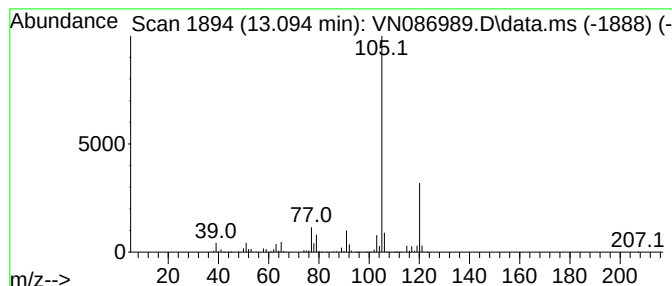
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Quant Title : SW846 8260

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

Peak Number 6 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.094	64.52 ug/l	6005330	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
3			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
4			Mesitylene	120	C9H12	000108-67-8	91
5			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

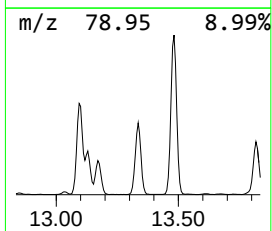
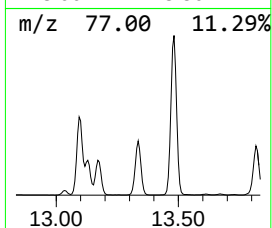
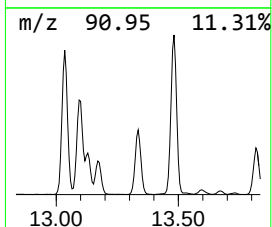
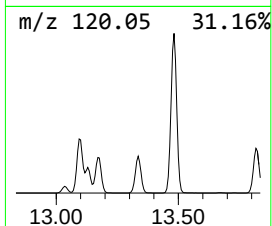
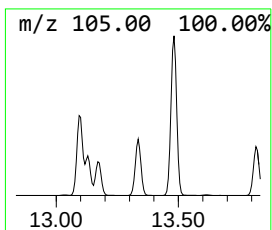
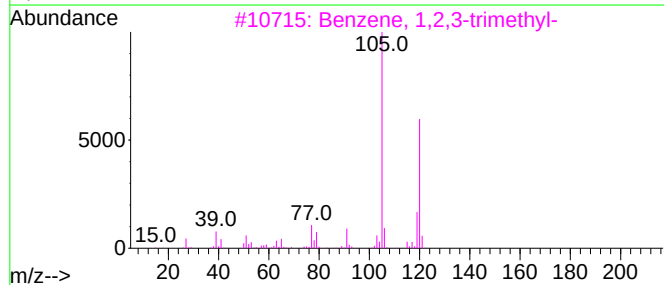
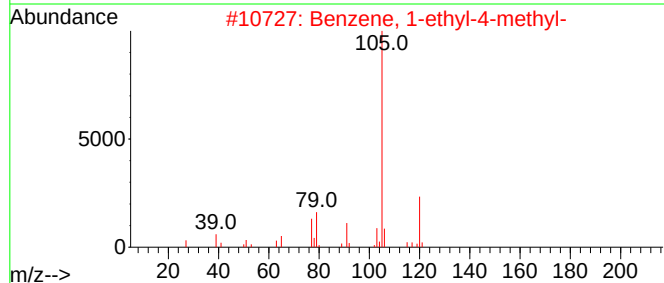
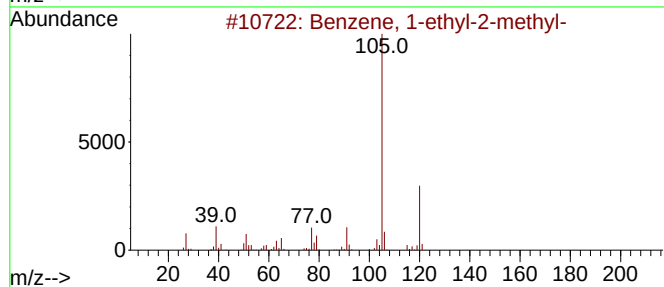
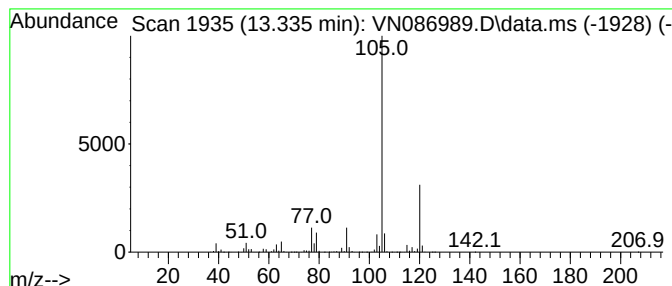
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Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	41.70 ug/l	3881490	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
3			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5			Mesitylene	120	C9H12	000108-67-8	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

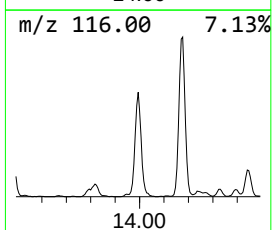
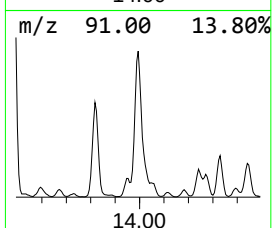
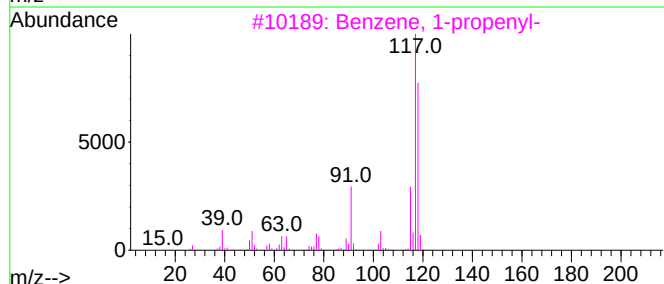
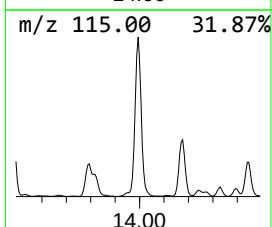
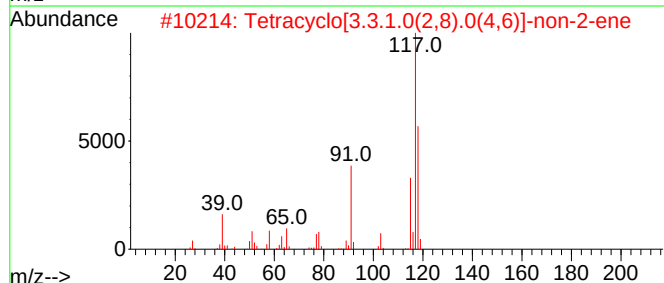
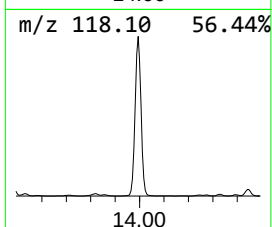
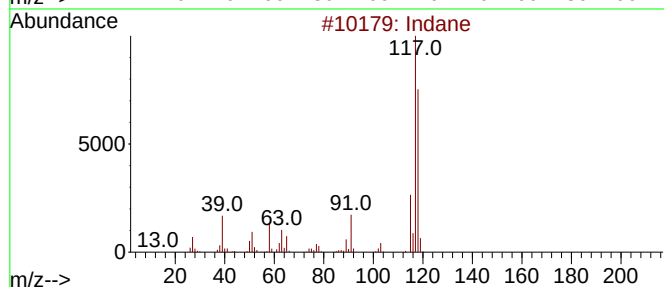
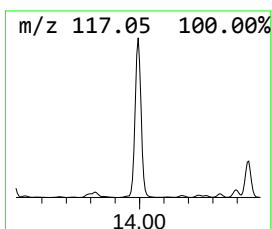
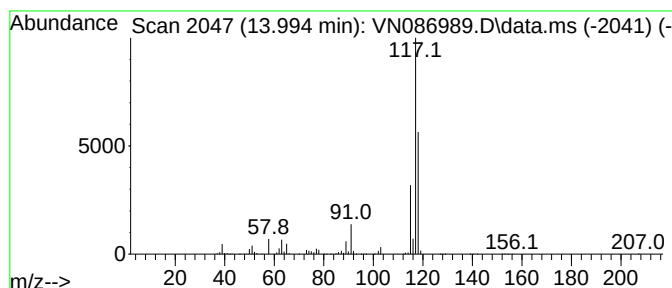
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 8 Indane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.994	56.39 ug/l	5249100	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	87
2			Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	64
3			Benzene, 1-propenyl-	118	C9H10	000637-50-3	64
4			Deltacyclene	118	C9H10	007785-10-6	64
5			Benzene, cyclopropyl-	118	C9H10	000873-49-4	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

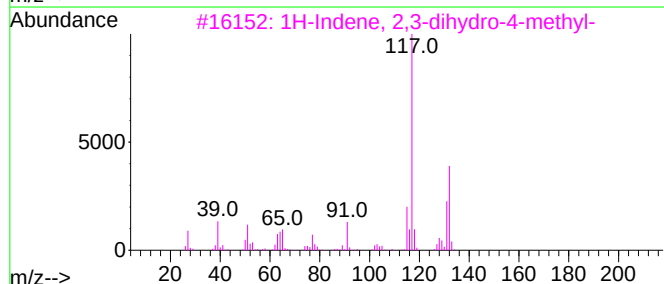
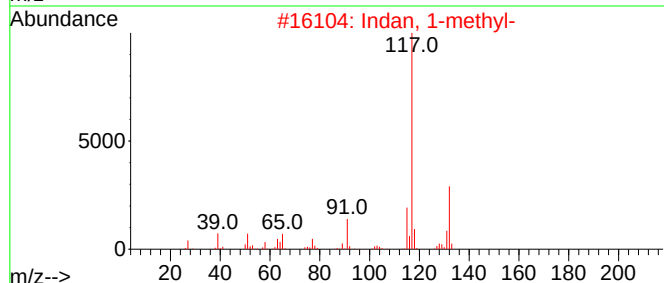
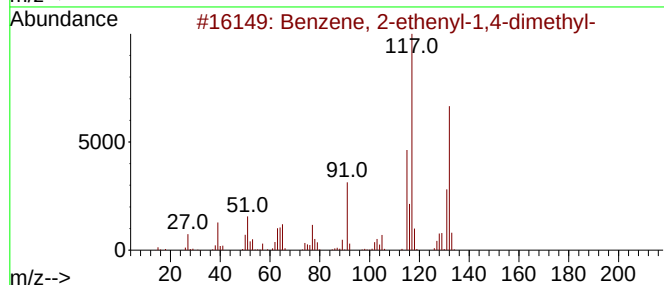
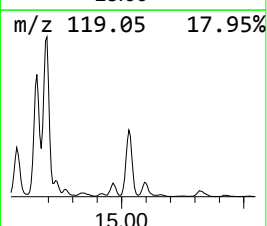
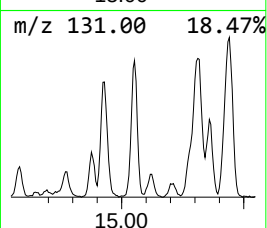
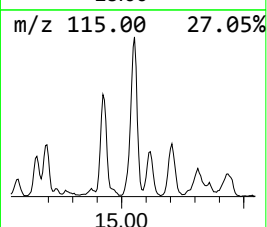
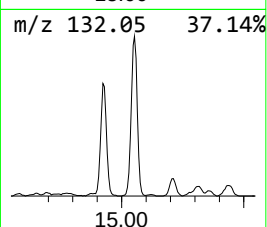
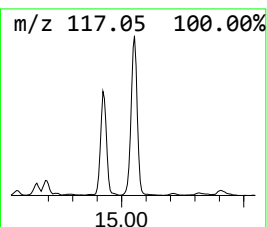
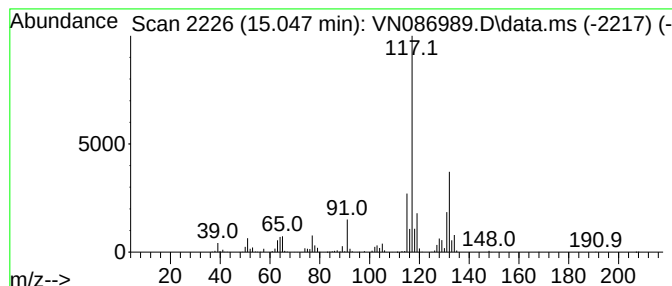
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Quant Title : SW846 8260

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

Peak Number 9 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.047	13.91 ug/l	1294960	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2			Indan, 1-methyl-	132	C10H12	000767-58-8	94
3			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	93
4			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91
5			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086989.D
Acq On : 12 Jun 2025 19:41
Operator : JC\MD
Sample : Q2268-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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
Butane, 2-methyl-	3.283	59.1	ug/l	1128130	1	8.230	953920	50.0
Cyclopentane	5.406	55.5	ug/l	1059650	1	8.230	953920	50.0
Pentane, 3-methyl-	5.830	47.0	ug/l	897063	1	8.230	953920	50.0
Cyclopentane, m...	7.342	36.3	ug/l	693123	1	8.230	953920	50.0
Butane, 2-metho...	8.783	134.2	ug/l	2833790	2	9.106	1055570	50.0
Benzene, 1-ethy...	13.094	64.5	ug/l	6005330	4	13.794	4654000	50.0
Benzene, 1-ethy...	13.335	41.7	ug/l	3881490	4	13.794	4654000	50.0
Indane	13.994	56.4	ug/l	5249100	4	13.794	4654000	50.0
Benzene, 2-ethe...	15.047	13.9	ug/l	1294960	4	13.794	4654000	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-6-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-07DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087041.D	20		06/16/25 18:45	VN061625

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	29.0	UD	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	15.8	JD	3.20	20.0	ug/L
71-43-2	Benzene	320	D	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	170	D	2.80	20.0	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-6-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-07DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087041.D	20		06/16/25 18:45	VN061625

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	350	D	2.60	20.0	ug/L
179601-23-1	m/p-Xylenes	1500	D	4.80	40.0	ug/L
95-47-6	o-Xylene	550	D	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	15.7	JD	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	53.0		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	52.6		86 - 113	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	254000	8.23			
540-36-3	1,4-Difluorobenzene	507000	9.106			
3114-55-4	Chlorobenzene-d5	456000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	218000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25
Client Sample ID:	MW-6-20250605DL		SDG No.:	Q2268
Lab Sample ID:	Q2268-07DL		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:	Prep Date	Date Analyzed	Prep Batch ID
VN087041.D	20		06/16/25 18:45	VN061625

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\VN061625\
 Data File : VN087041.D
 Acq On : 16 Jun 2025 18:45
 Operator : JC\MD
 Sample : Q2268-07DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6-20250605DL

Quant Time: Jun 17 07:28:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	253695	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	507247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	456316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	217980	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	179873	52.955	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.920%
35) Dibromofluoromethane	8.177	113	151738	50.477	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.960%
50) Toluene-d8	10.565	98	626271	52.627	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.260%
62) 4-Bromofluorobenzene	12.847	95	223690	50.594	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.180%

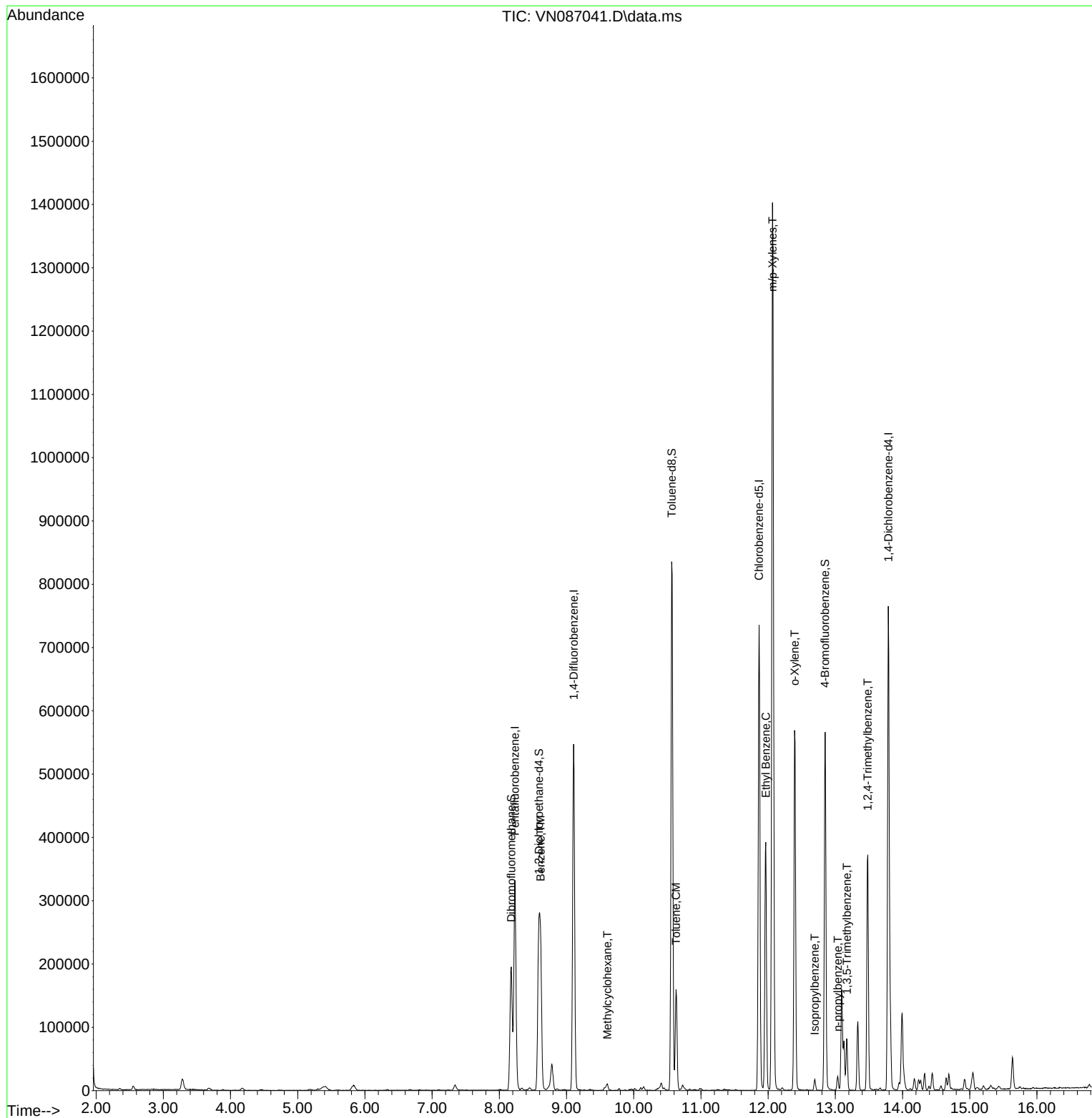
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
39) Methylcyclohexane	9.606	83	4837	0.788	ug/l	97
40) Benzene	8.612	78	236834	16.169	ug/l	99
52) Toluene	10.630	92	75470	8.431	ug/l	100
67) Ethyl Benzene	11.965	91	303790	17.524	ug/l	100
68) m/p-Xylenes	12.065	106	494528	74.522	ug/l	98
69) o-Xylene	12.394	106	175888	27.675	ug/l	98
73) Isopropylbenzene	12.694	105	12504	0.787	ug/l	99
78) n-propylbenzene	13.035	91	18958	0.982	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	44692	3.409	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	226337	17.216	ug/l	99

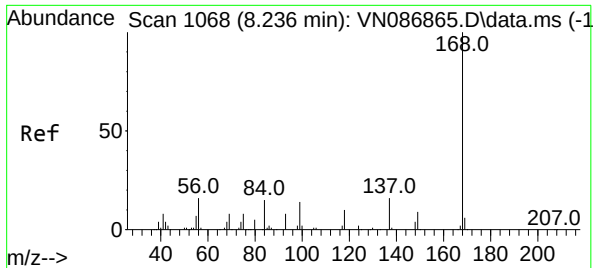
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087041.D
Acq On : 16 Jun 2025 18:45
Operator : JC\MD
Sample : Q2268-07DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

Quant Time: Jun 17 07:28:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

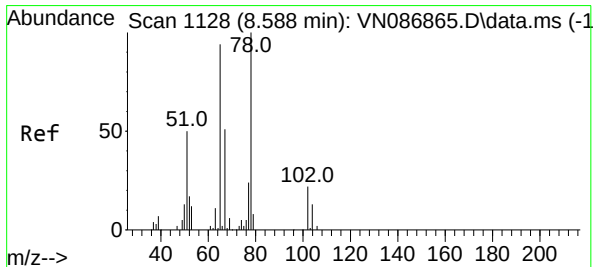
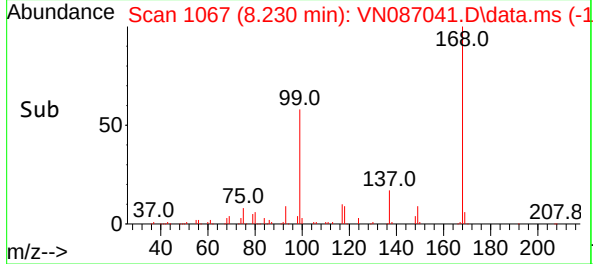
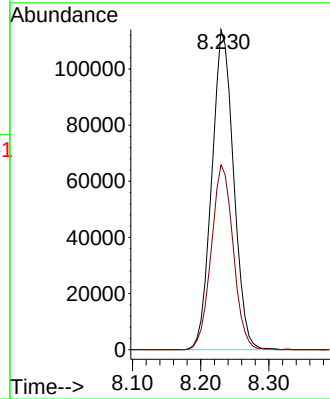
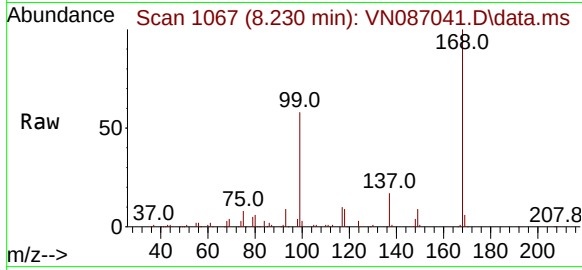




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

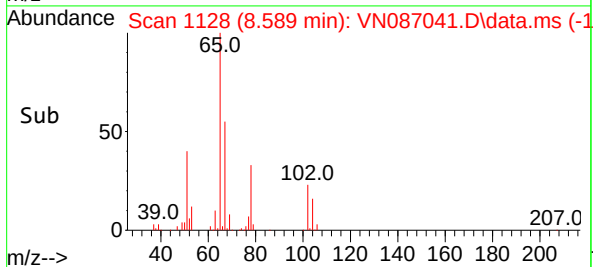
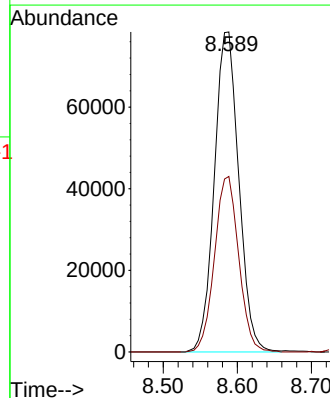
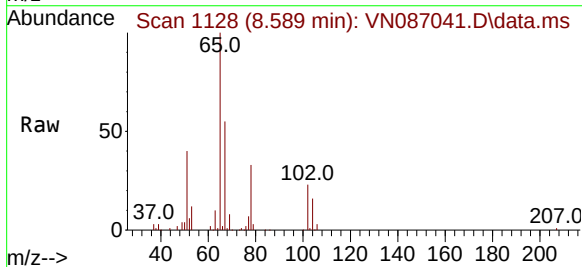
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

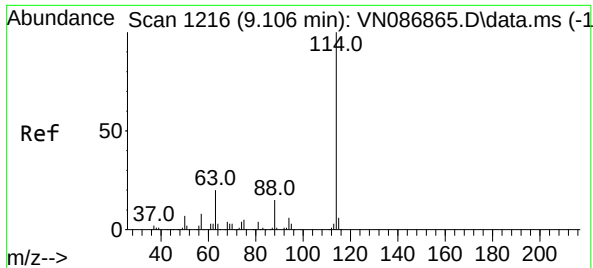
Tgt Ion:168 Resp: 253695
Ion Ratio Lower Upper
168 100
99 57.7 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 52.955 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion: 65 Resp: 179873
Ion Ratio Lower Upper
65 100
67 54.2 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087041.D

Acq: 16 Jun 2025 18:45

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605DL

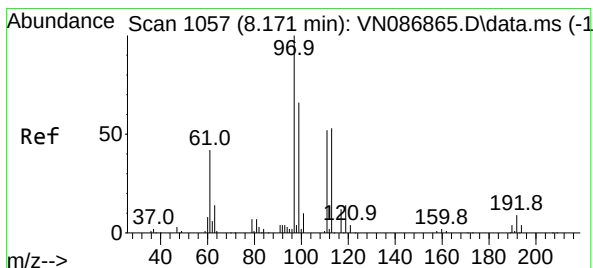
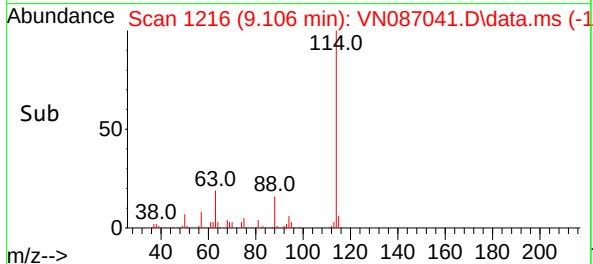
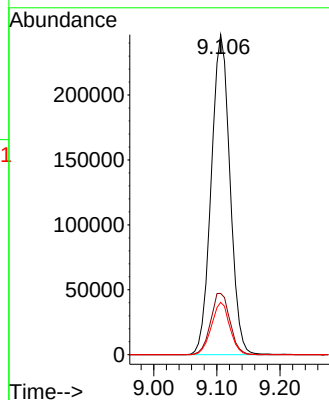
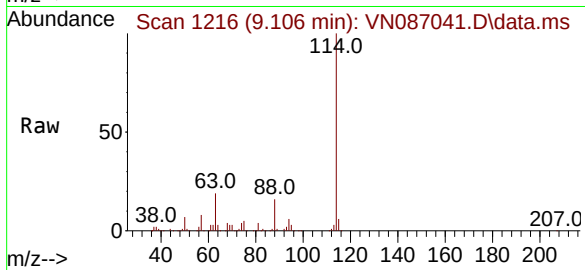
Tgt Ion:114 Resp: 507247

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 16.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.477 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087041.D

Acq: 16 Jun 2025 18:45

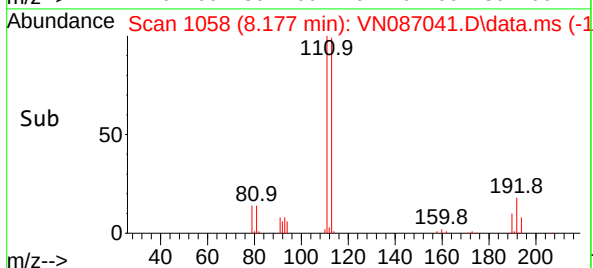
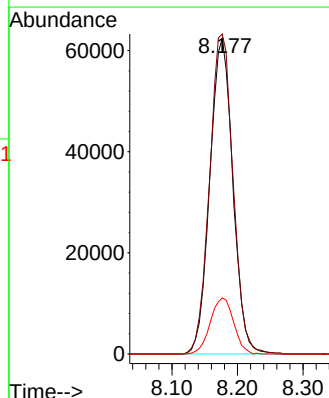
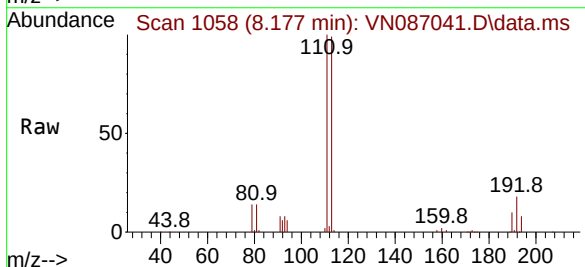
Tgt Ion:113 Resp: 151738

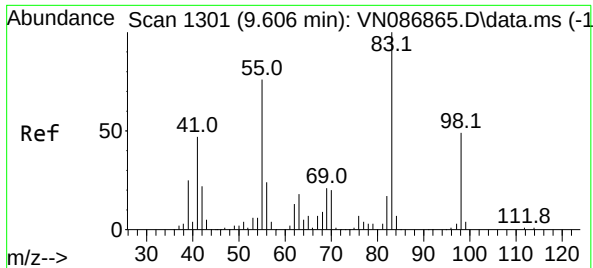
Ion Ratio Lower Upper

113 100

111 103.8 84.2 126.2

192 18.0 14.2 21.4





#39

Methylcyclohexane

Concen: 0.788 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN087041.D

Acq: 16 Jun 2025 18:45

Instrument :

MSVOA_N

ClientSampleId :

MW-6-20250605DL

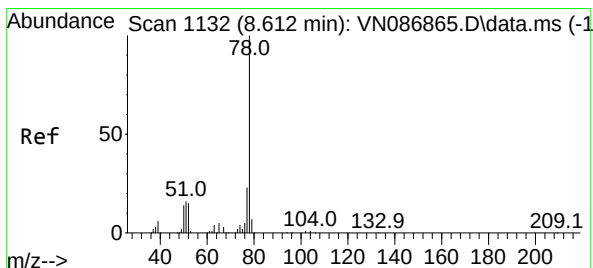
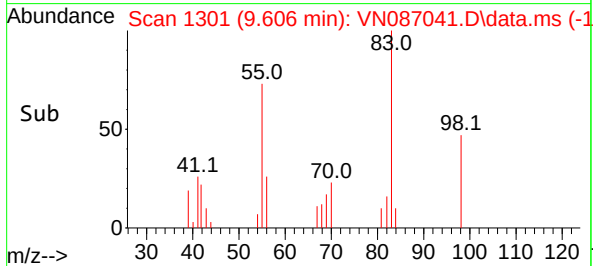
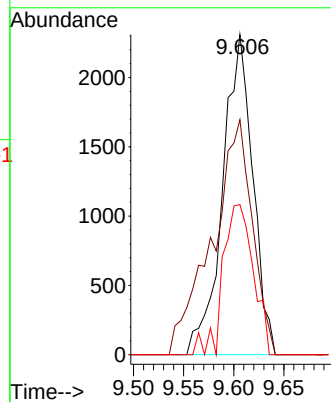
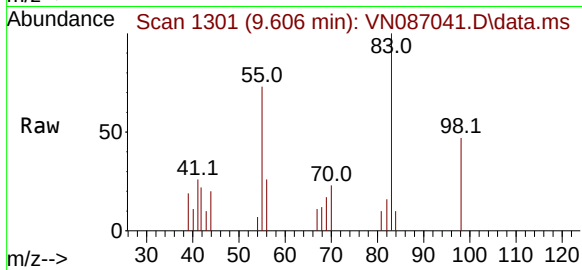
Tgt Ion: 83 Resp: 4837

Ion Ratio Lower Upper

83 100

55 73.5 61.0 91.6

98 46.9 38.9 58.3



#40

Benzene

Concen: 16.169 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN087041.D

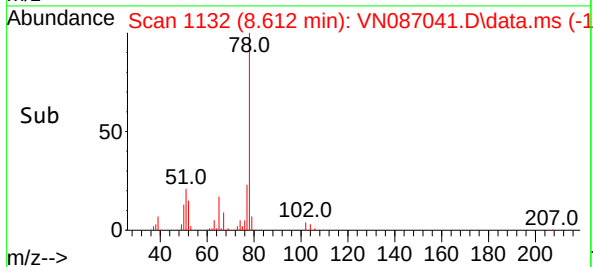
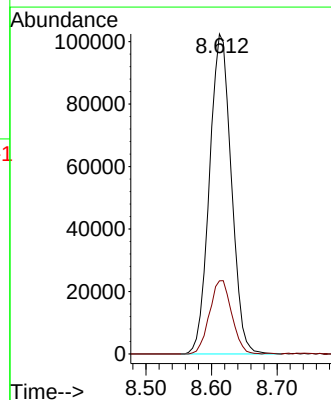
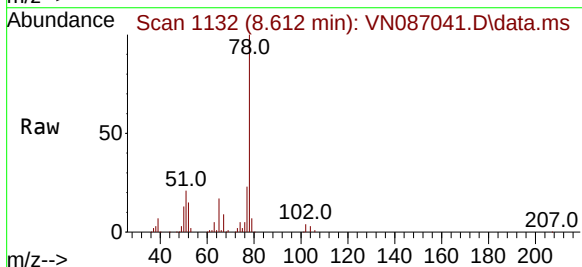
Acq: 16 Jun 2025 18:45

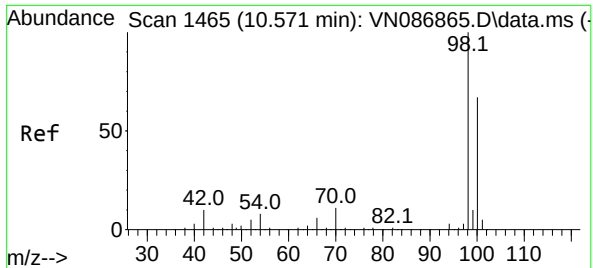
Tgt Ion: 78 Resp: 236834

Ion Ratio Lower Upper

78 100

77 22.9 18.7 28.1

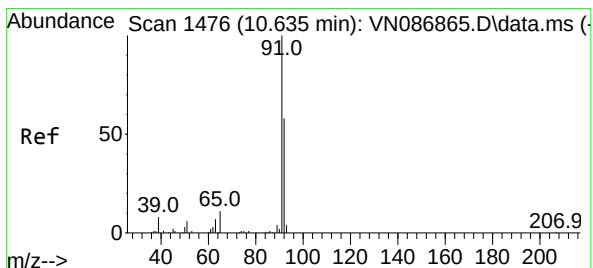
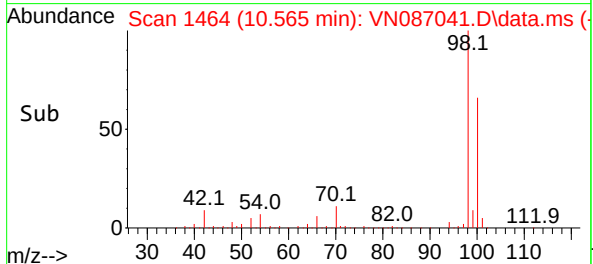
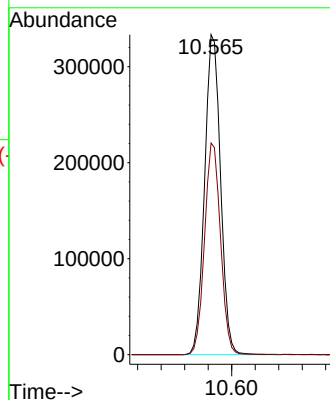
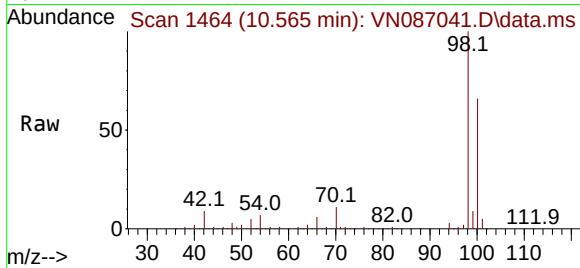




#50
Toluene-d8
Concen: 52.627 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

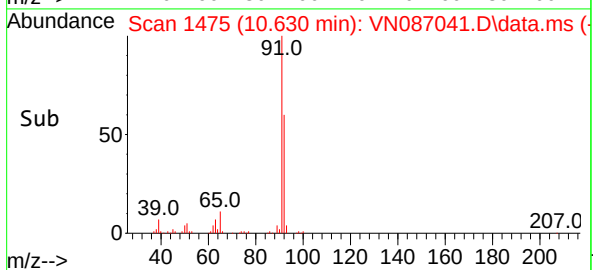
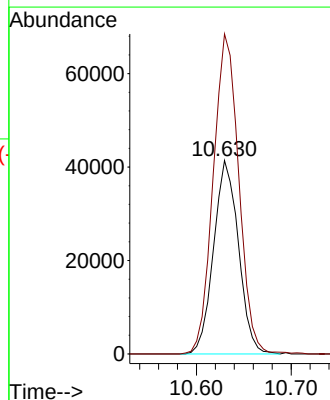
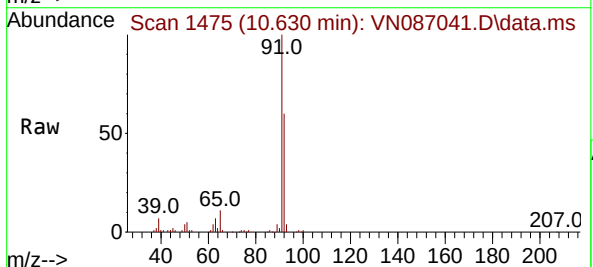
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

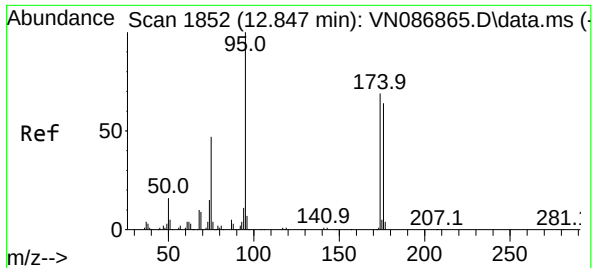
Tgt Ion: 98 Resp: 626271
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0



#52
Toluene
Concen: 8.431 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion: 92 Resp: 75470
Ion Ratio Lower Upper
92 100
91 170.2 136.5 204.7

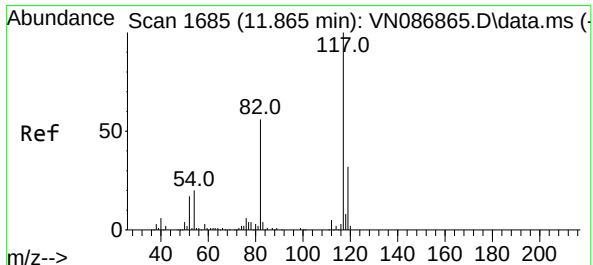
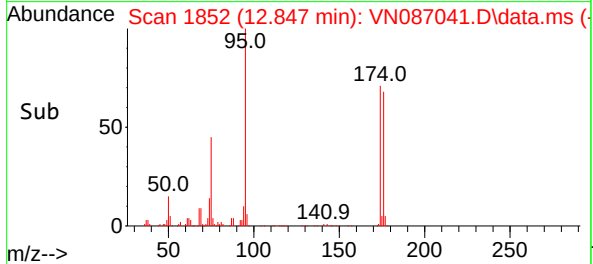
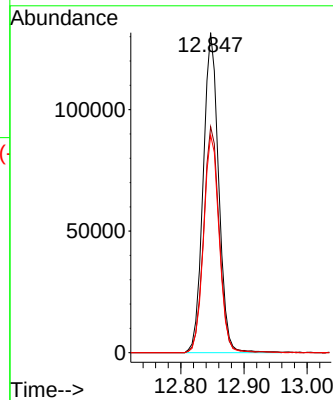
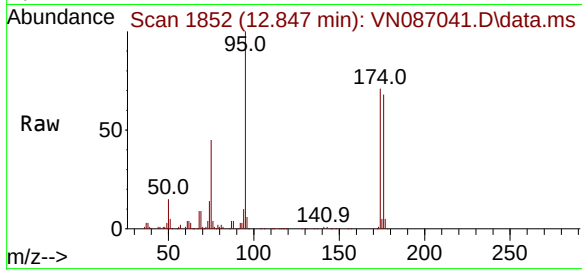




#62
4-Bromofluorobenzene
Concen: 50.594 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

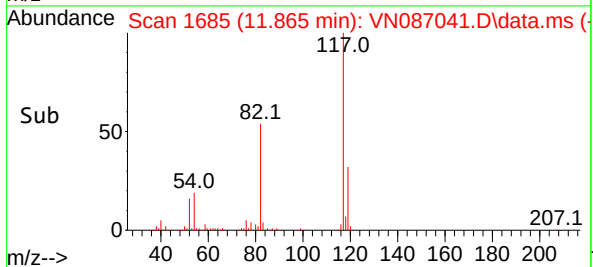
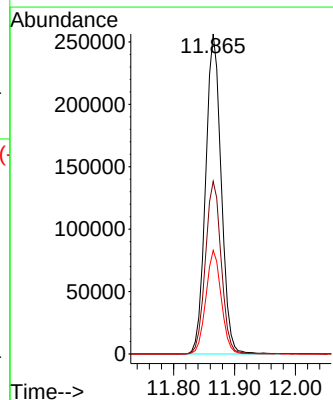
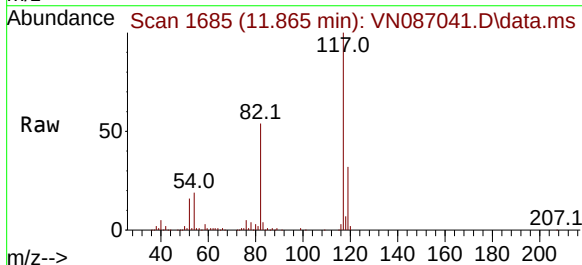
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

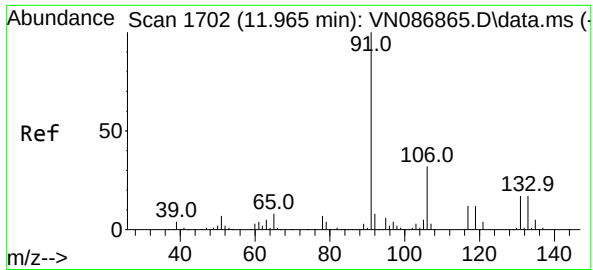
Tgt Ion: 95 Resp: 223690
Ion Ratio Lower Upper
95 100
174 71.2 0.0 141.8
176 68.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion: 117 Resp: 456316
Ion Ratio Lower Upper
117 100
82 53.9 44.6 67.0
119 32.4 25.5 38.3

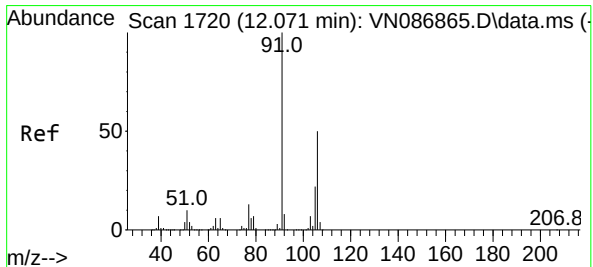
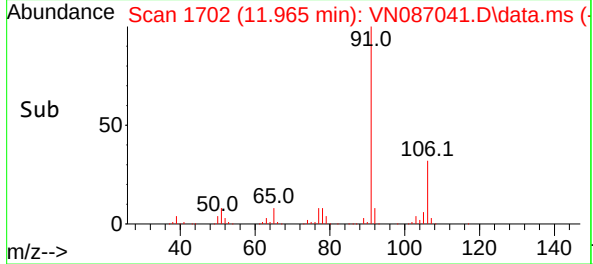
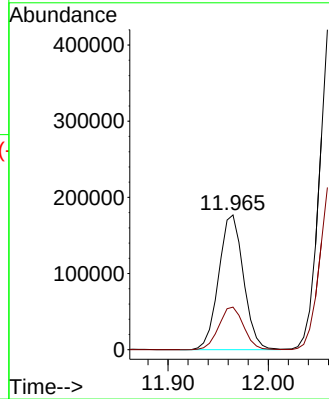
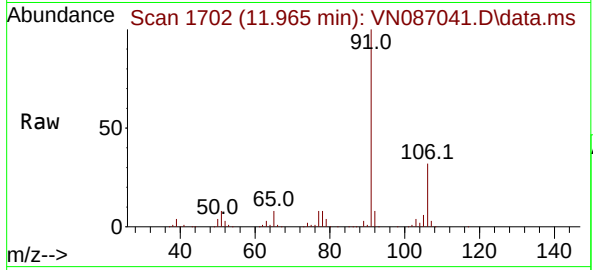




#67
Ethyl Benzene
Concen: 17.524 ug/l
RT: 11.965 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

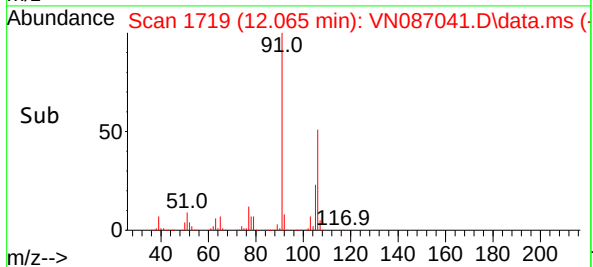
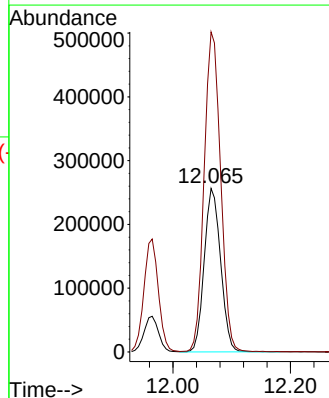
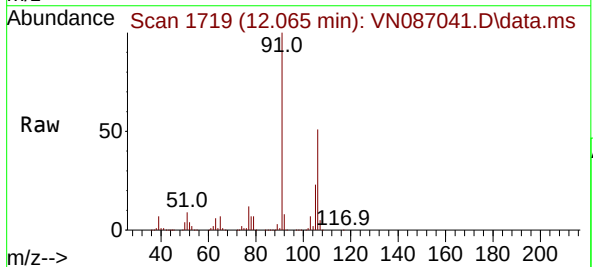
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

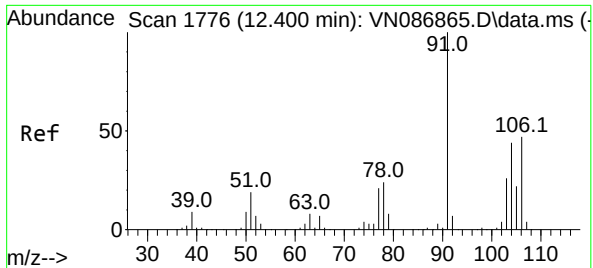
Tgt Ion: 91 Resp: 303790
Ion Ratio Lower Upper
91 100
106 31.6 25.4 38.2



#68
m/p-Xylenes
Concen: 74.522 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion: 106 Resp: 494528
Ion Ratio Lower Upper
106 100
91 196.9 159.4 239.0

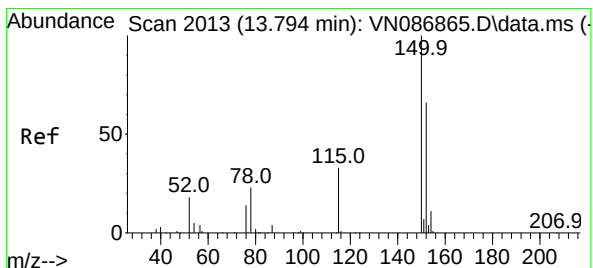
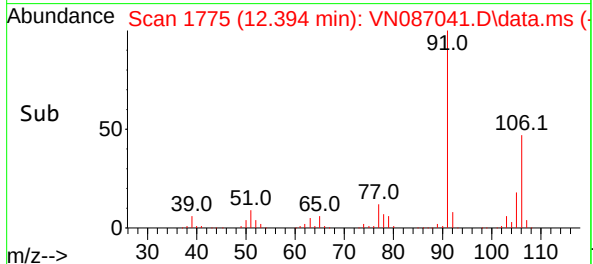
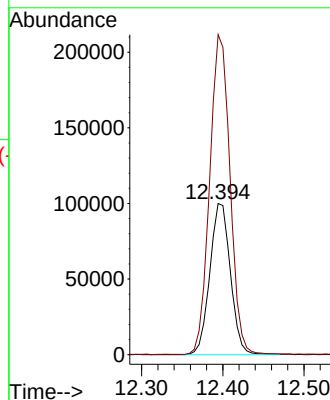
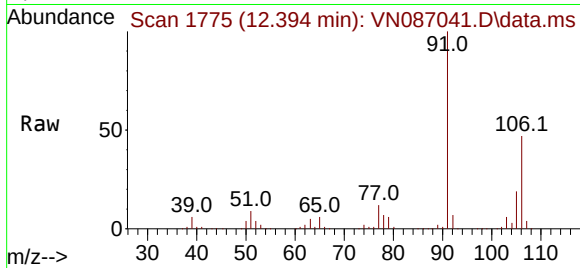




#69
o-Xylene
Concen: 27.675 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

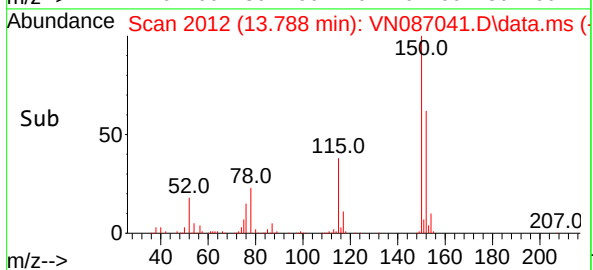
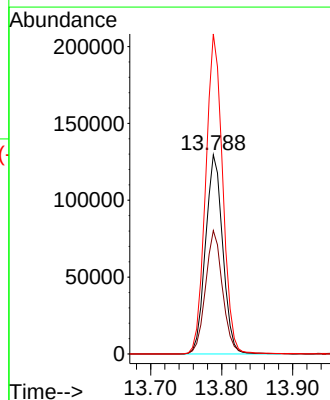
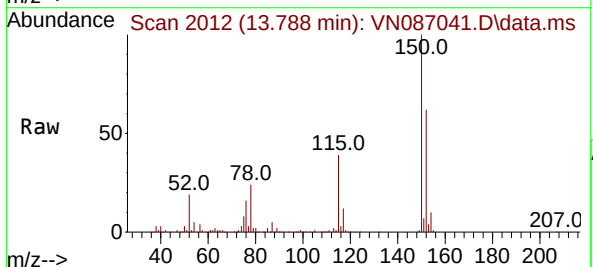
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

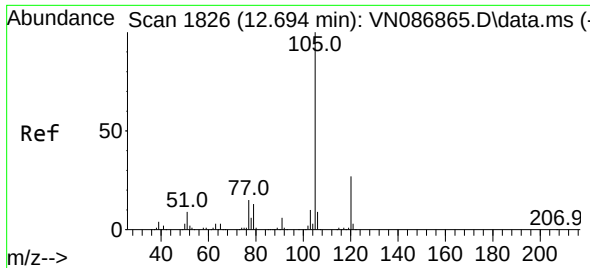
Tgt Ion:106 Resp: 175888
Ion Ratio Lower Upper
106 100
91 209.3 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion:152 Resp: 217980
Ion Ratio Lower Upper
152 100
115 61.9 30.1 90.5
150 159.5 0.0 345.0

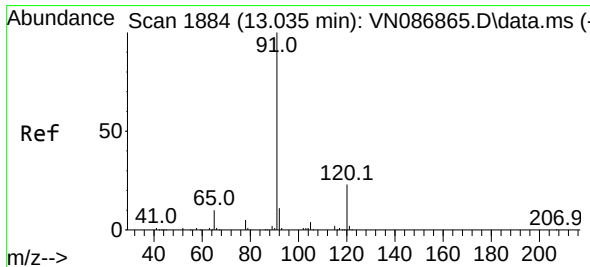
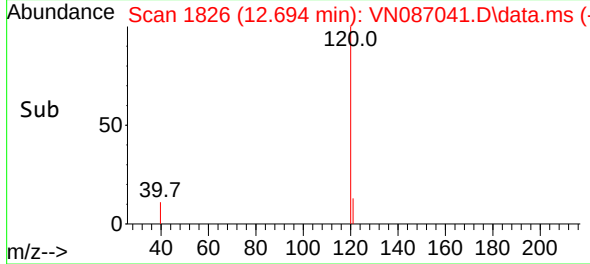
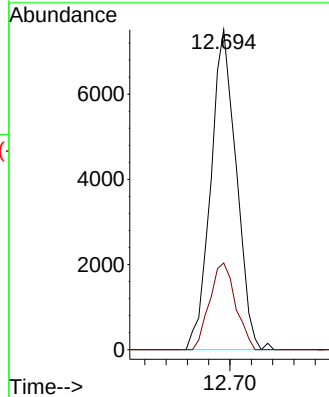
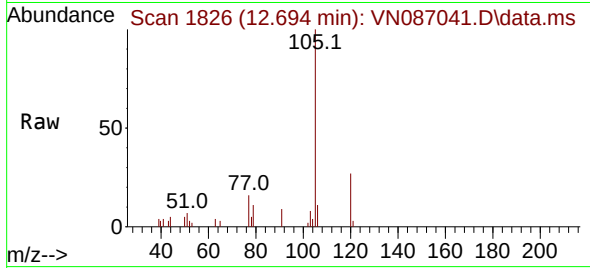




#73
Isopropylbenzene
Concen: 0.787 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

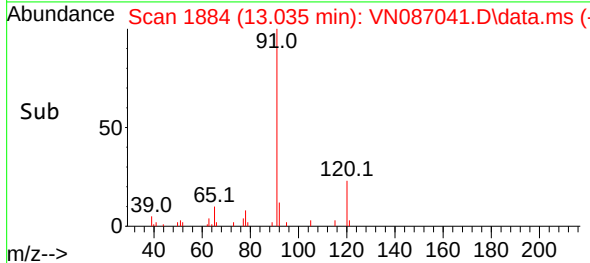
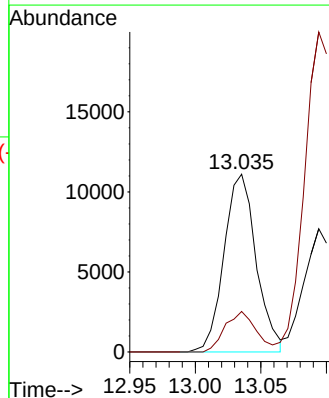
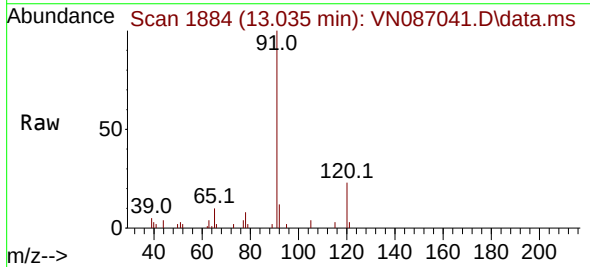
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

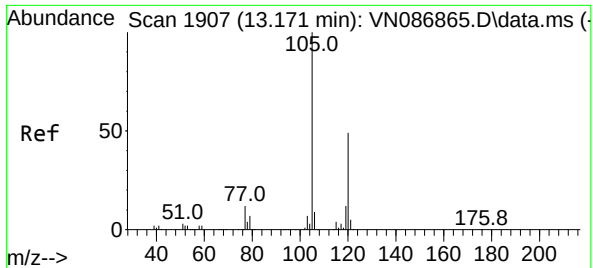
Tgt Ion:	105	Resp:	12504
Ion Ratio	Lower	Upper	
105	100		
120	27.5	13.5	40.4



#78
n-propylbenzene
Concen: 0.982 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion:	91	Resp:	18958
Ion Ratio	Lower	Upper	
91	100		
120	21.9	11.4	34.2

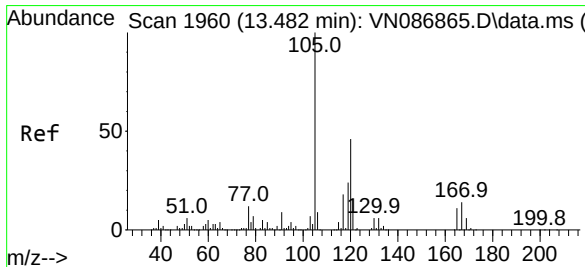
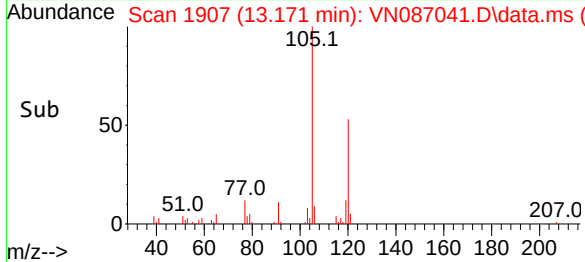
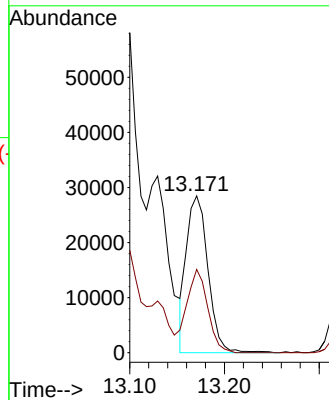
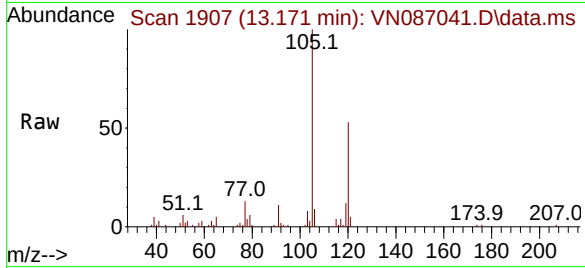




#80
1,3,5-Trimethylbenzene
Concen: 3.409 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

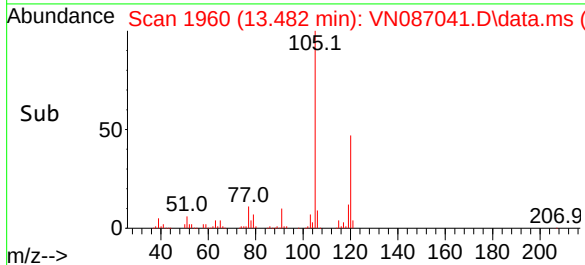
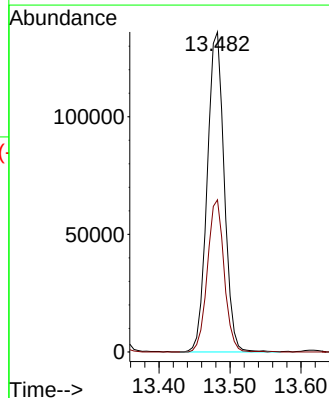
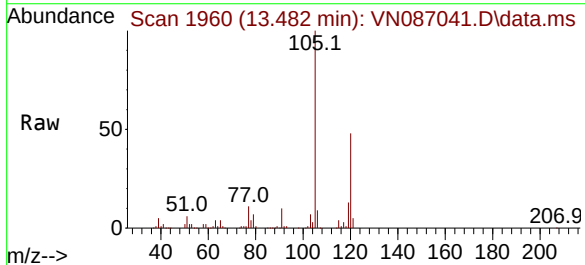
Instrument :
MSVOA_N
ClientSampleId :
MW-6-20250605DL

Tgt Ion:105 Resp: 44692
Ion Ratio Lower Upper
105 100
120 52.6 24.9 74.6



#84
1,2,4-Trimethylbenzene
Concen: 17.216 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087041.D
Acq: 16 Jun 2025 18:45

Tgt Ion:105 Resp: 226337
Ion Ratio Lower Upper
105 100
120 46.9 23.2 69.6



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-3-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-08		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086990.D	1		06/12/25 20:04	VN061225

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	5.60		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	15.9		1.50	5.00	ug/L
78-93-3	2-Butanone	1.50	J	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	4.70		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	UQ	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	15.9		0.16	1.00	ug/L
71-43-2	Benzene	1.80		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	UQ	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	330	E	0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-3-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-08			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086990.D	1		06/12/25 20:04	VN061225

[illegible]

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-3-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-08	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086990.D	1		06/12/25 20:04	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
103-65-1	n-propylbenzene	140	J		13.0	ug/L
000620-14-4	Benzene, 1-ethyl-3-methyl-	60.3	J		13.1	ug/L
108-67-8	1,3,5-Trimethylbenzene	310	J		13.2	ug/L
000611-14-3	Benzene, 1-ethyl-2-methyl-	34.4	J		13.3	ug/L
95-63-6	1,2,4-Trimethylbenzene	1500	J		13.5	ug/L
135-98-8	sec-Butylbenzene	4.90	J		13.6	ug/L
99-87-6	p-Isopropyltoluene	4.00	J		13.7	ug/L
000496-11-7	Indane	56.7	J		14.0	ug/L
104-51-8	n-Butylbenzene	7.00	J		14.1	ug/L
000095-13-6	Indene	8.20	J		14.2	ug/L
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	9.50	J		14.3	ug/L
000767-58-8	Indan, 1-methyl-	9.80	J		14.4	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	8.00	J		14.7	ug/L
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	8.70	J		14.9	ug/L
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	18.1	J		15.1	ug/L
000275-51-4	Azulene	46.5	J		15.6	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086990.D
 Acq On : 12 Jun 2025 20:04
 Operator : JC\MD
 Sample : Q2268-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3-20250605

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 04:04:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	240809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	472342	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	416914	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	170552	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	163592	50.739	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.480%			
35) Dibromofluoromethane	8.177	113	140505	50.195	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.380%			
50) Toluene-d8	10.571	98	576609	52.034	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.060%			
62) 4-Bromofluorobenzene	12.847	95	183387	44.543	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.080%			
Target Compounds					Qvalue	
16) Acetone	4.453	43	9581	5.604	ug/l	97
25) 2-Butanone	7.506	43	4199	1.511	ug/l	95
30) Chloroform	7.977	83	25487	4.733	ug/l	94
31) Cyclohexane	8.265	56	82976	15.868	ug/l	# 93
39) Methylcyclohexane	9.606	83	90855	15.899	ug/l	97
40) Benzene	8.618	78	24034	1.762	ug/l	99
52) Toluene	10.635	92	2769765	332.283	ug/l	99
64) Tetrachloroethene	11.094	164	1297	0.492	ug/l	# 79
67) Ethyl Benzene	11.965	91	16135410	1018.743	ug/l	# 88
68) m/p-Xylenes	12.071	106	16322007	2692.071	ug/l	# 1
69) o-Xylene	12.400	106	5434901	935.959	ug/l	94
73) Isopropylbenzene	12.694	105	824068	66.324	ug/l	99
78) n-propylbenzene	13.035	91	2096250	138.829	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	3218251	313.725	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	15634159	1519.862	ug/l	94
85) sec-Butylbenzene	13.618	105	67252m	4.932	ug/l	
86) p-Isopropyltoluene	13.729	119	44981m	3.990	ug/l	
89) n-Butylbenzene	14.053	91	76337m	6.992	ug/l	

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

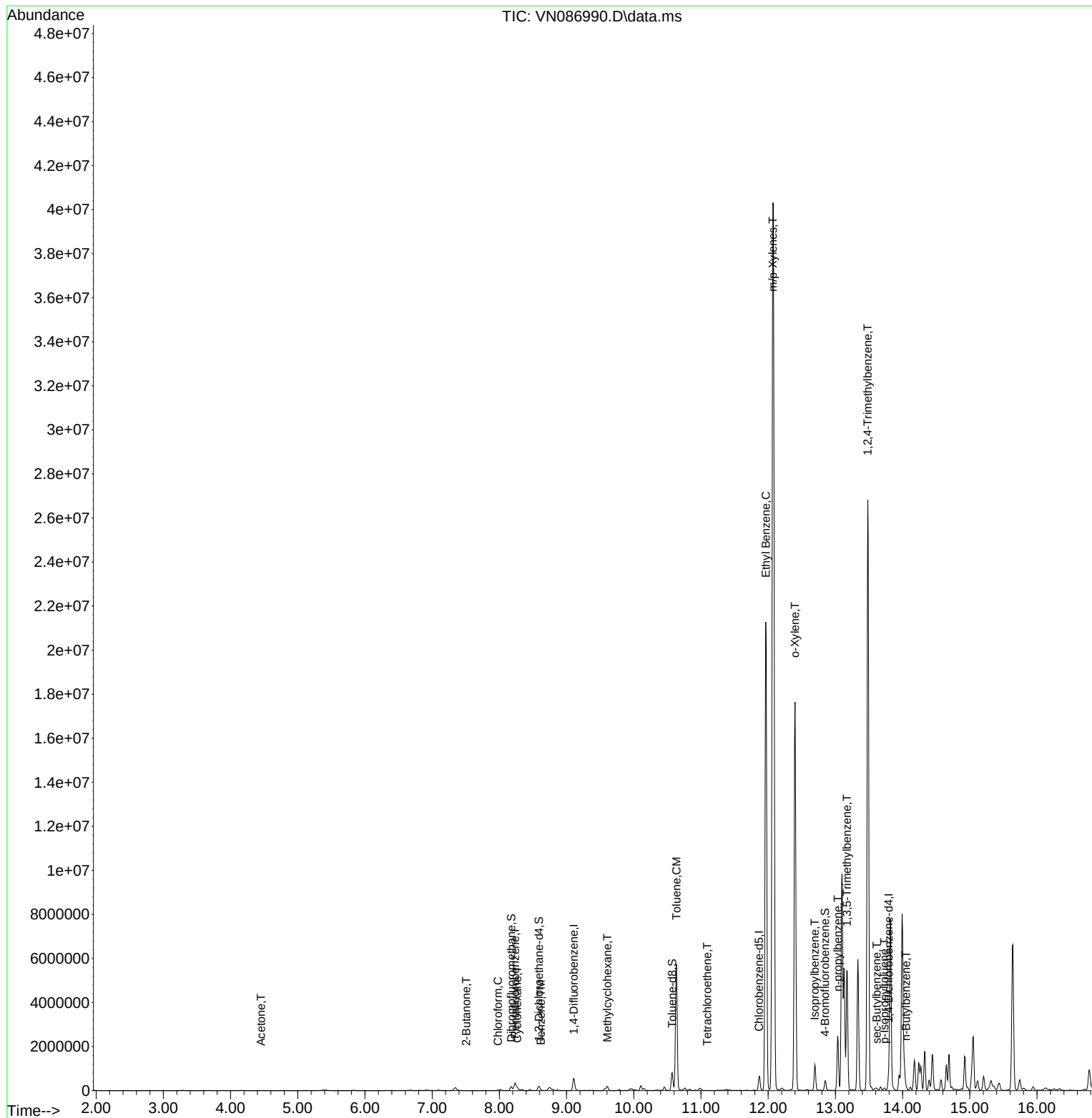
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Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

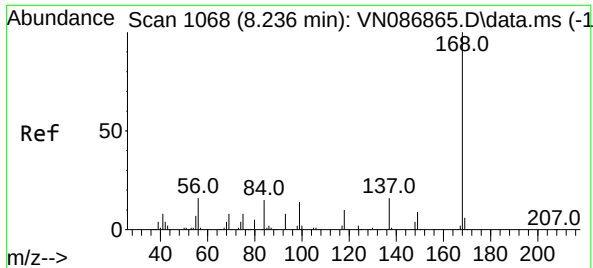
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/13/2025
Supervised By : Mahesh Dadoda 06/13/2025

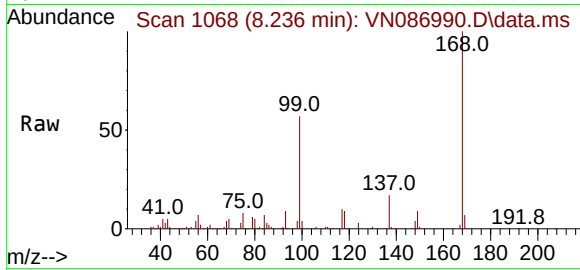
Quant Time: Jun 13 04:04:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

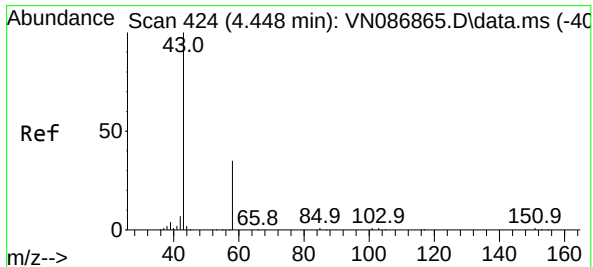
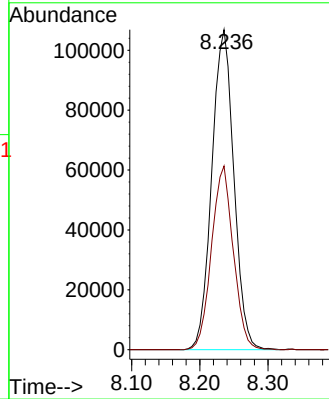
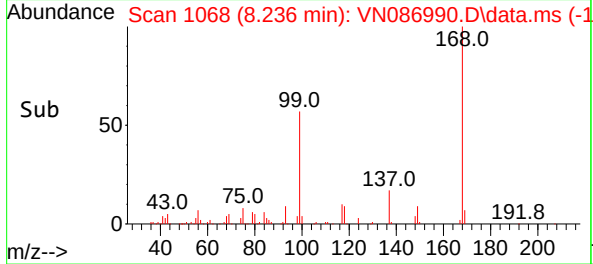
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion:168 Resp: 240809
Ion Ratio Lower Upper
168 100
99 57.4 49.1 73.7

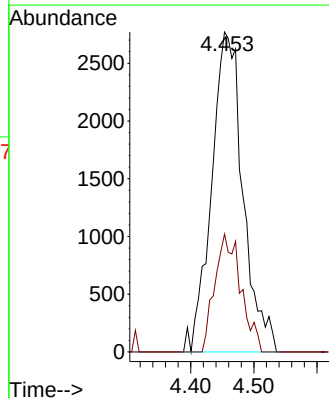
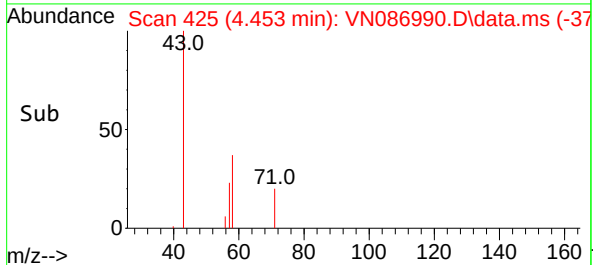
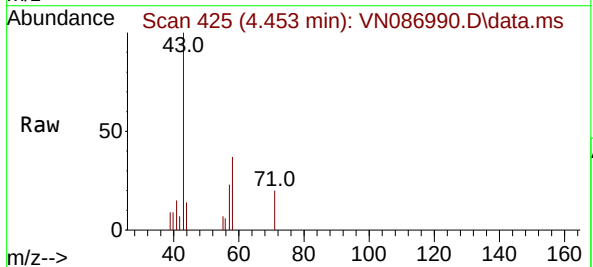
Manual Integrations
APPROVED

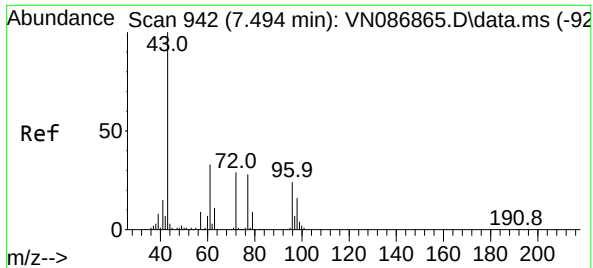
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#16
Acetone
Concen: 5.604 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

Tgt Ion: 43 Resp: 9581
Ion Ratio Lower Upper
43 100
58 36.8 28.0 42.0





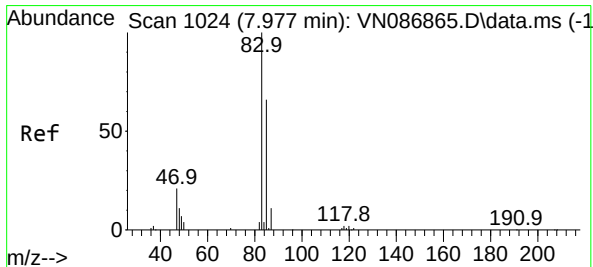
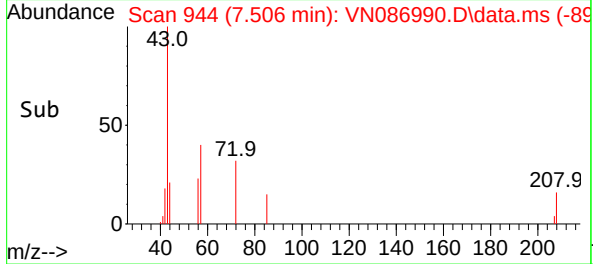
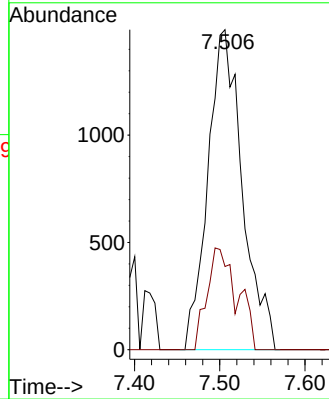
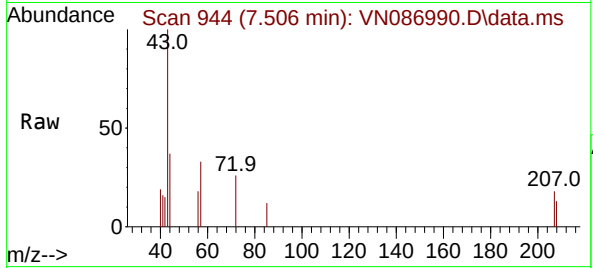
#25
2-Butanone
Concen: 1.511 ug/l
RT: 7.506 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

Tgt Ion: 43 Resp: 4199
Ion Ratio Lower Upper
43 100
72 26.0 23.0 34.6

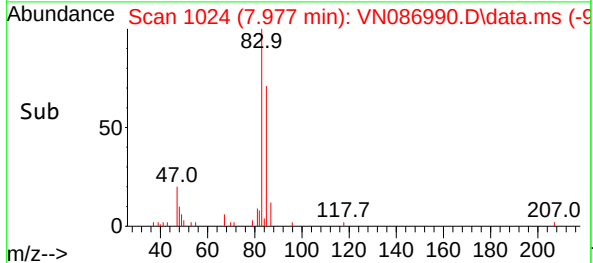
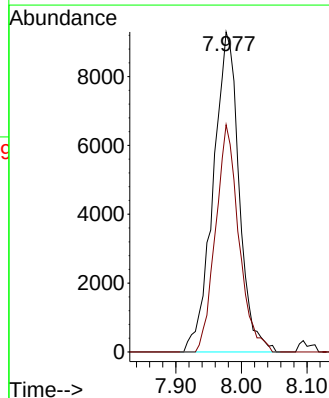
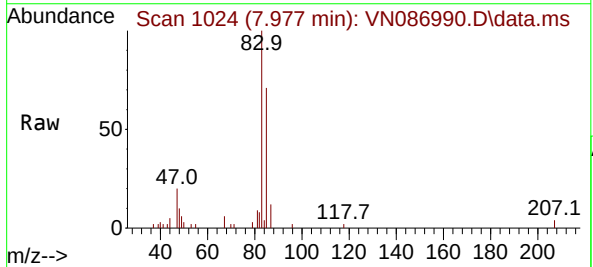
Manual Integrations
APPROVED

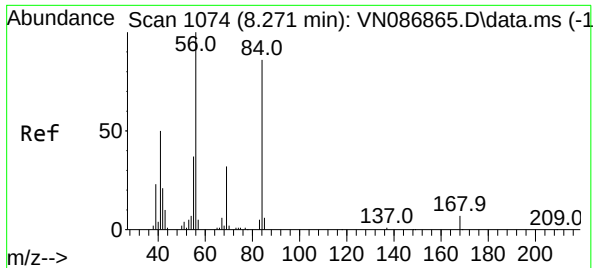
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#30
Chloroform
Concen: 4.733 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

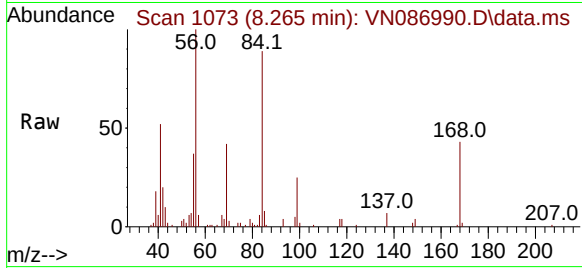
Tgt Ion: 83 Resp: 25487
Ion Ratio Lower Upper
83 100
85 71.0 52.9 79.3





#31
Cyclohexane
Concen: 15.868 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

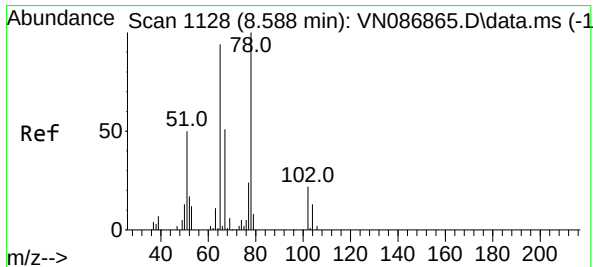
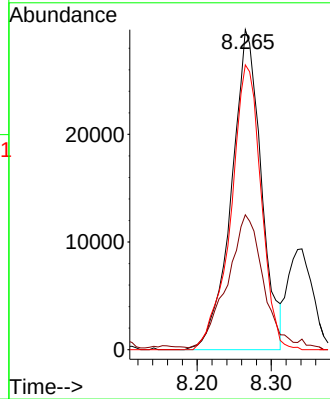
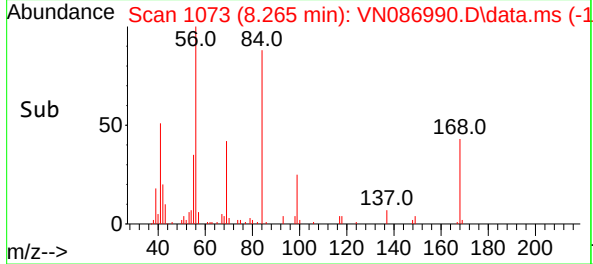
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion: 56 Resp: 82970
Ion Ratio Lower Upper
56 100
69 41.2 25.4 38.0
84 89.0 68.8 103.2

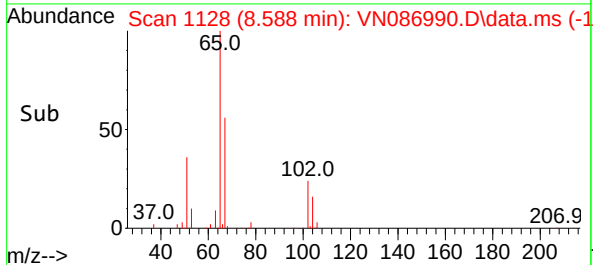
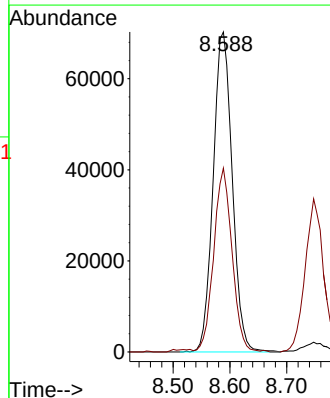
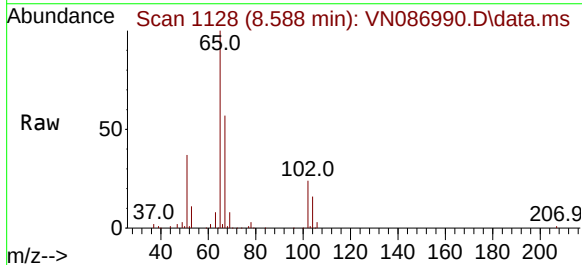
Manual Integrations
APPROVED

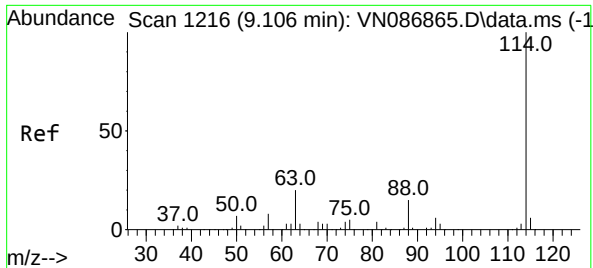
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#33
1,2-Dichloroethane-d4
Concen: 50.739 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

Tgt Ion: 65 Resp: 163592
Ion Ratio Lower Upper
65 100
67 55.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086990.D

Acq: 12 Jun 2025 20:04

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605

Tgt Ion:114 Resp: 47234

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

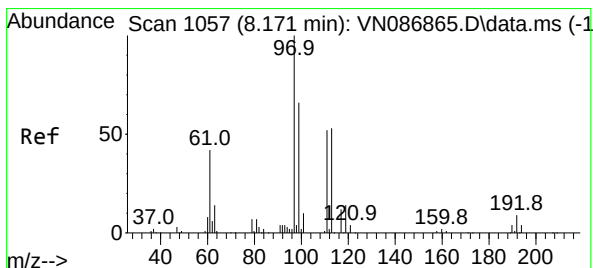
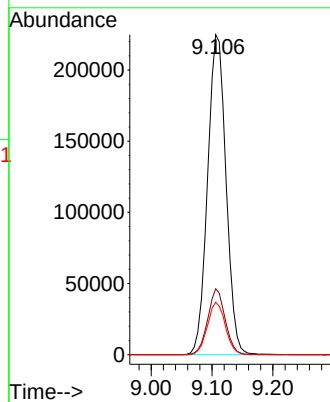
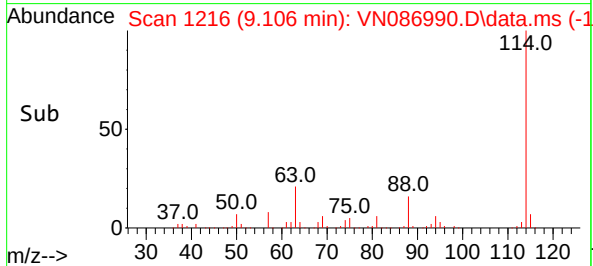
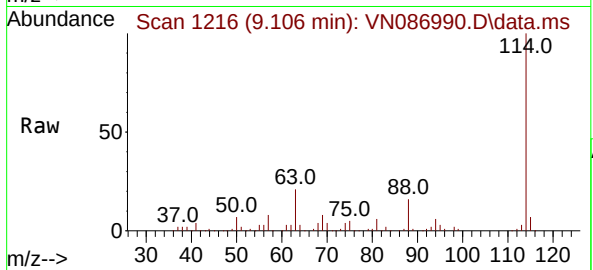
88 16.3 0.0 30.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#35

Dibromofluoromethane

Concen: 50.195 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086990.D

Acq: 12 Jun 2025 20:04

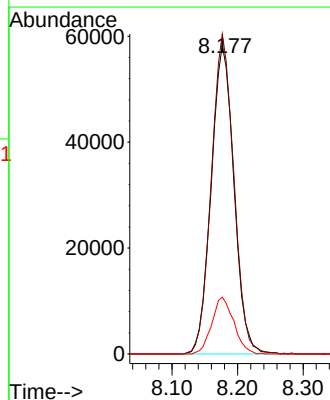
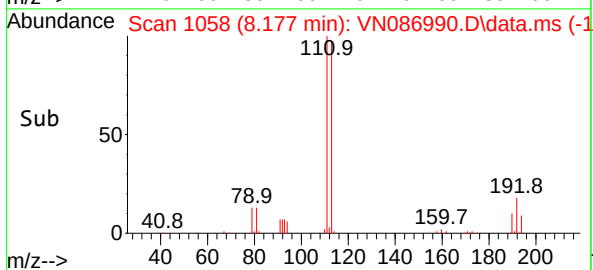
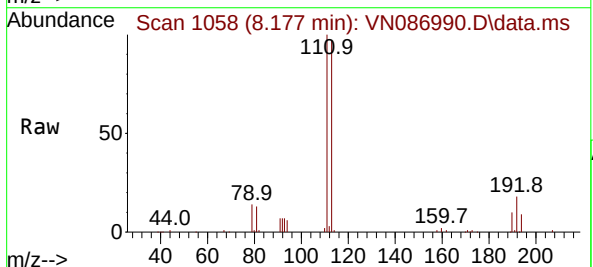
Tgt Ion:113 Resp: 140505

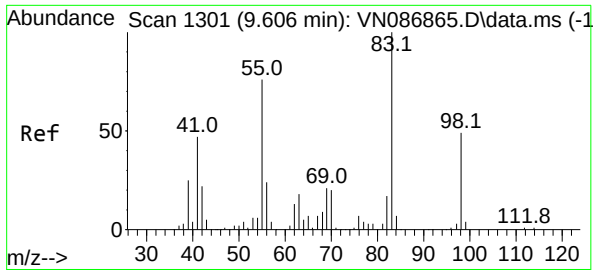
Ion Ratio Lower Upper

113 100

111 102.4 84.2 126.2

192 17.7 14.2 21.4





#39

Methylcyclohexane

Concen: 15.899 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086990.D

Acq: 12 Jun 2025 20:04

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605

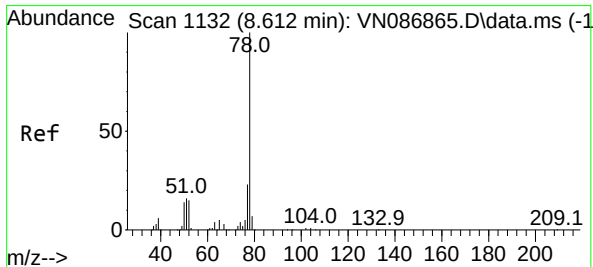
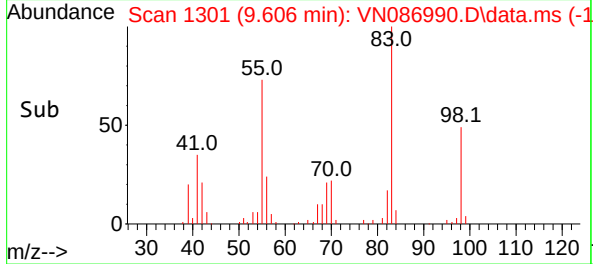
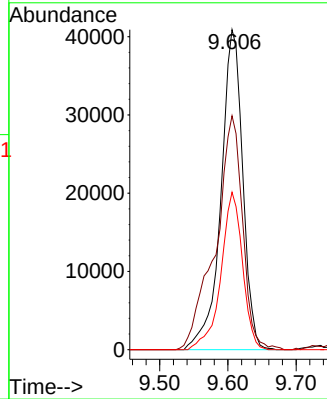
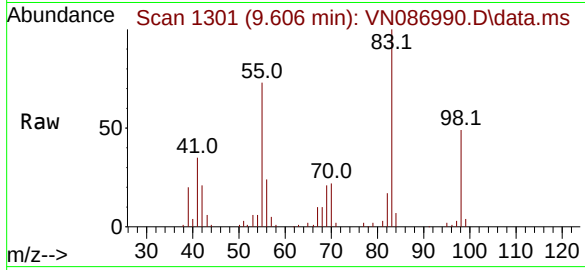
Tgt Ion:	83	Resp:	9085
Ion Ratio	Lower	Upper	
83	100		
55	72.6	61.0	91.6
98	49.2	38.9	58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#40

Benzene

Concen: 1.762 ug/l

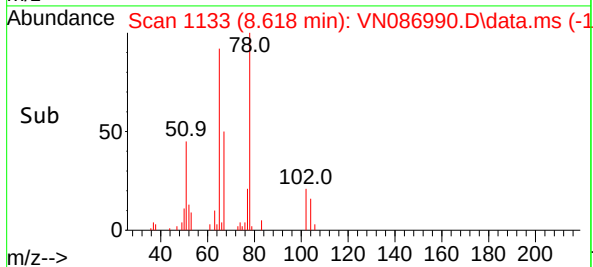
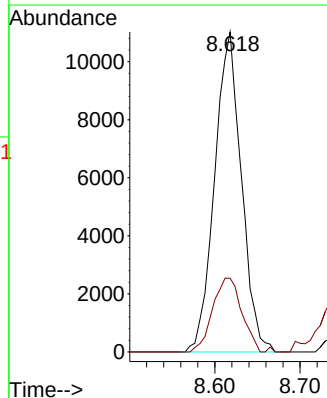
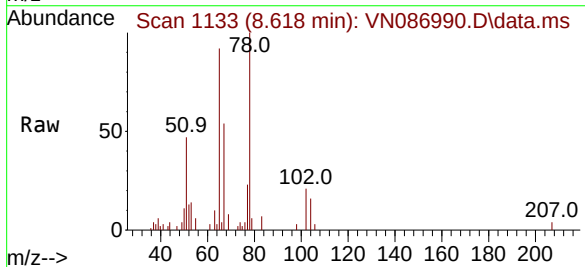
RT: 8.618 min Scan# 1133

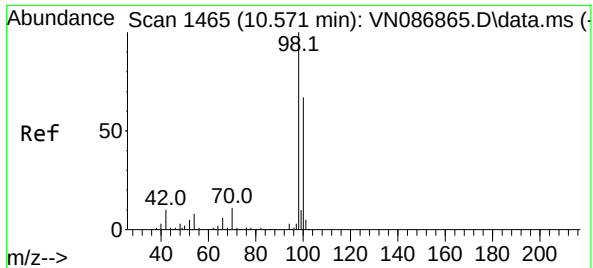
Delta R.T. 0.006 min

Lab File: VN086990.D

Acq: 12 Jun 2025 20:04

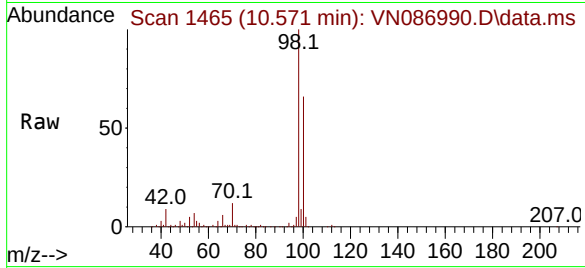
Tgt Ion:	78	Resp:	24034
Ion Ratio	Lower	Upper	
78	100		
77	23.1	18.7	28.1





#50
Toluene-d8
Concen: 52.034 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

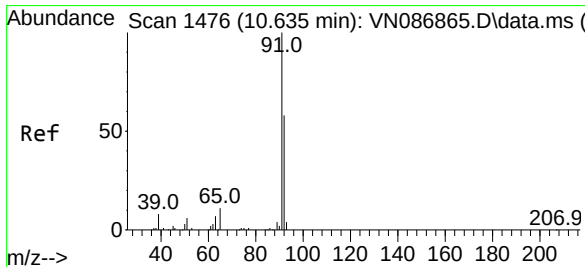
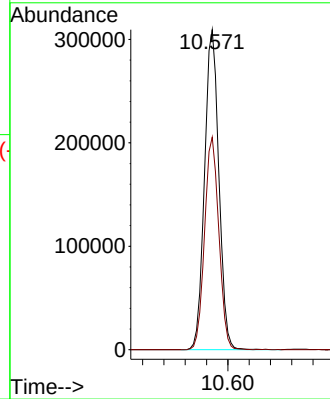
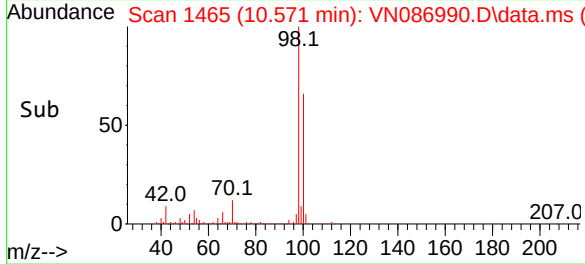
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion: 98 Resp: 576609
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0

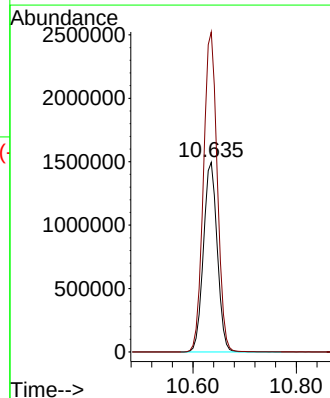
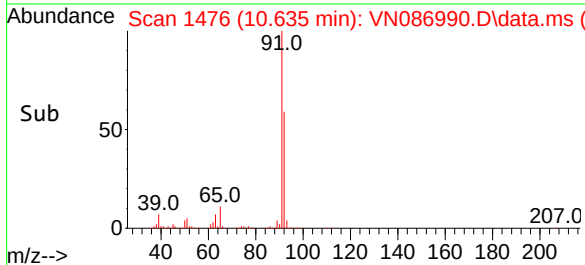
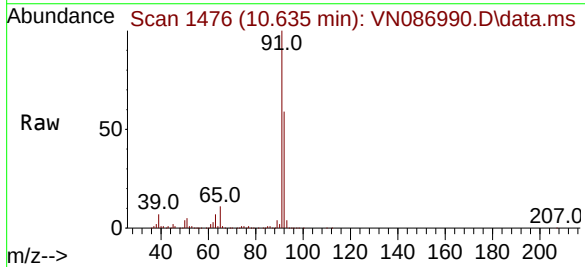
Manual Integrations
APPROVED

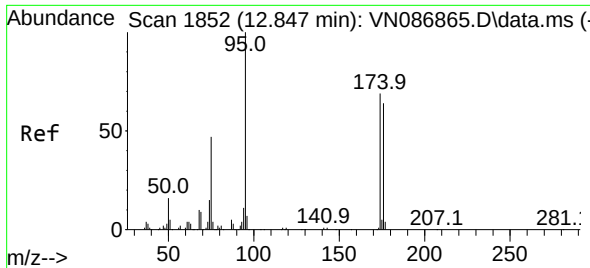
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#52
Toluene
Concen: 332.283 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

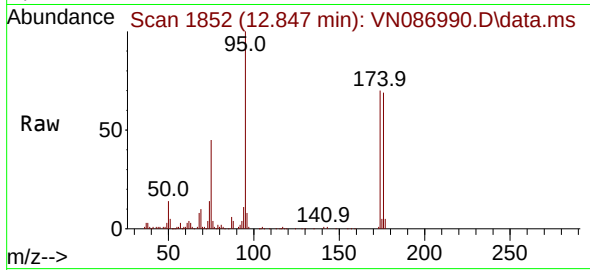
Tgt Ion: 92 Resp: 2769765
Ion Ratio Lower Upper
92 100
91 168.8 136.5 204.7





#62
4-Bromofluorobenzene
Concen: 44.543 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

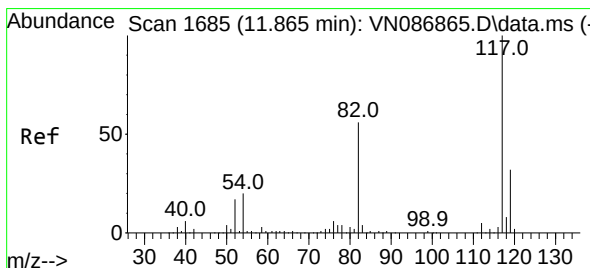
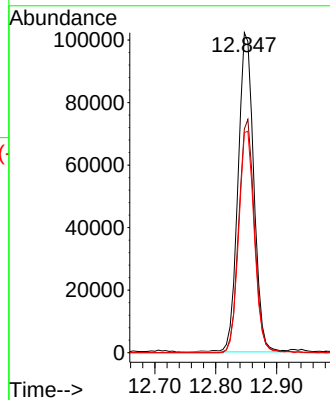
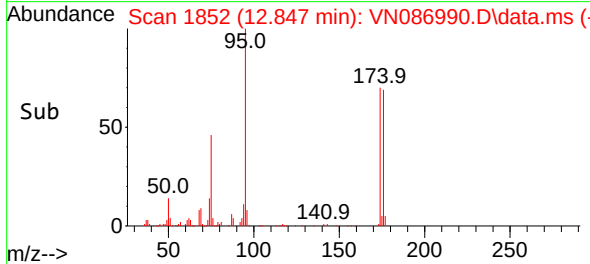
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion: 95 Resp: 18338
Ion Ratio Lower Upper
95 100
174 72.7 0.0 141.8
176 68.8 0.0 132.6

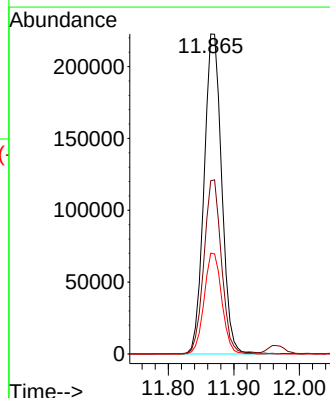
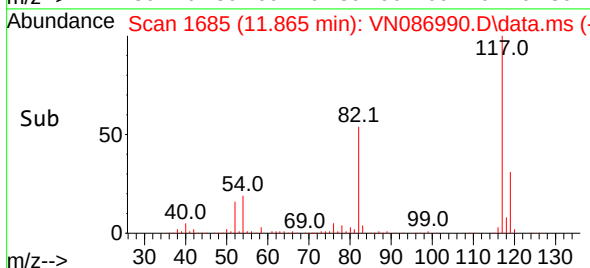
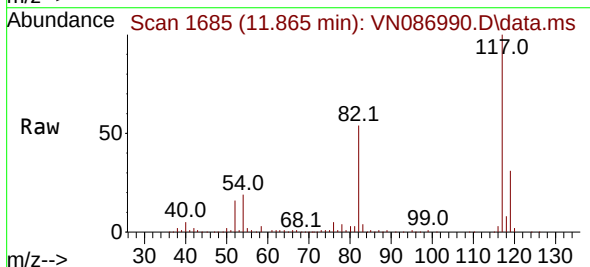
Manual Integrations
APPROVED

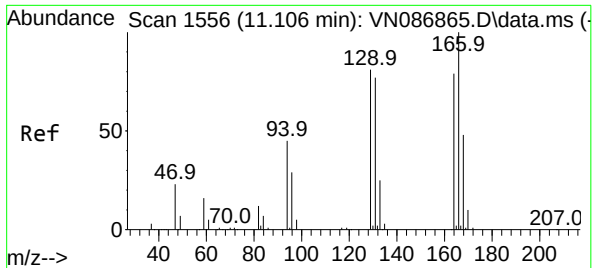
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

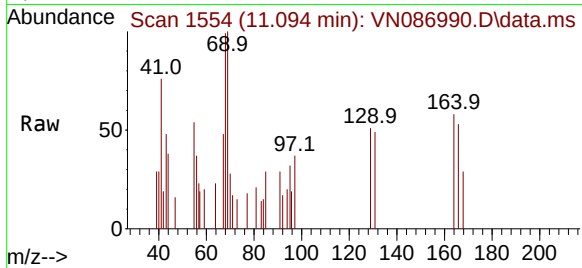
Tgt Ion:117 Resp: 416914
Ion Ratio Lower Upper
117 100
82 54.1 44.6 67.0
119 31.5 25.5 38.3





#64
Tetrachloroethene
Concen: 0.492 ug/l
RT: 11.094 min Scan# 1554
Delta R.T. -0.012 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

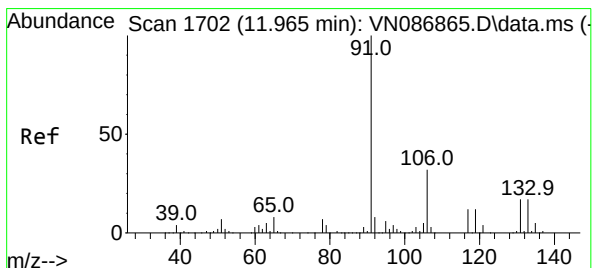
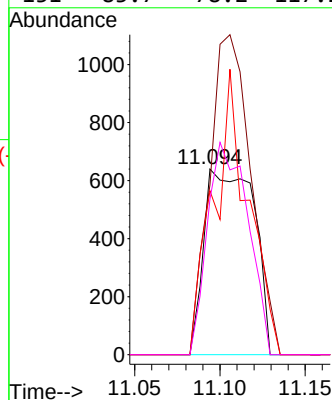
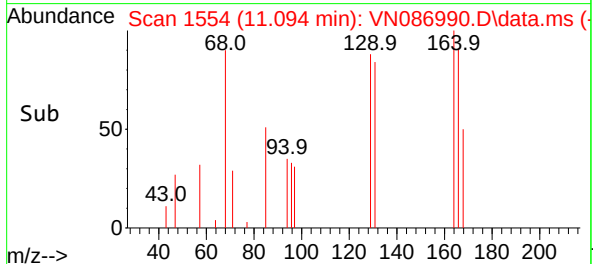
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion:164 Resp: 129
Ion Ratio Lower Upper
164 100
166 91.4 101.8 152.8
129 88.3 83.0 124.4
131 83.7 78.2 117.2

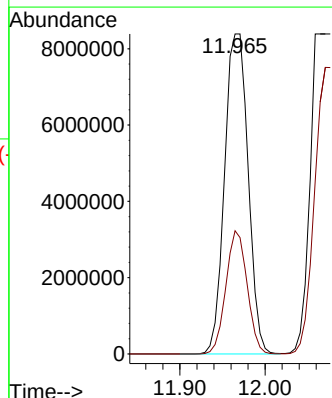
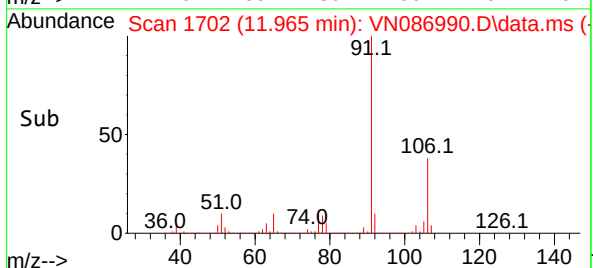
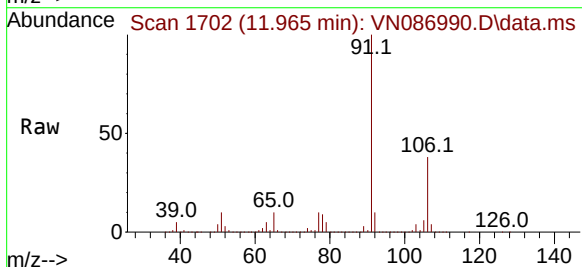
Manual Integrations
APPROVED

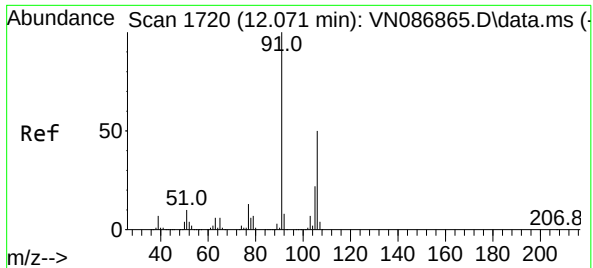
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#67
Ethyl Benzene
Concen: 1018.743 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

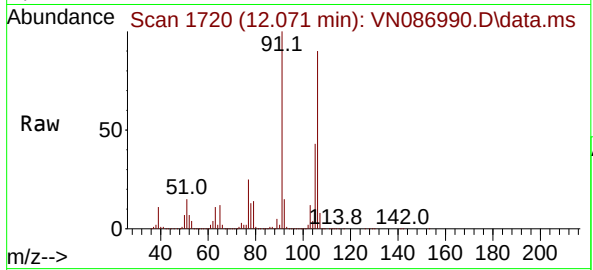
Tgt Ion: 91 Resp:16135410
Ion Ratio Lower Upper
91 100
106 38.5 25.4 38.2#





#68
m/p-Xylenes
Concen: 2692.071 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

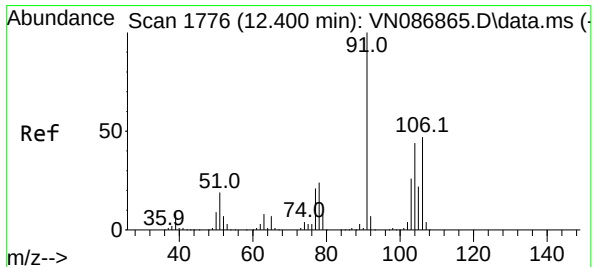
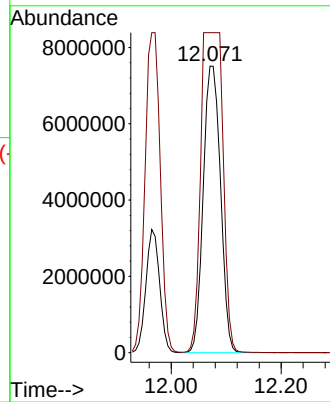
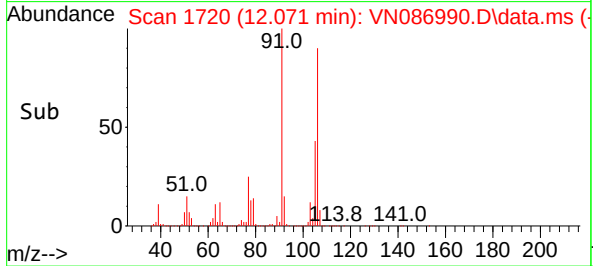
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion:106 Resp:1632200
Ion Ratio Lower Upper
106 100
91 0.0 159.4 239.0

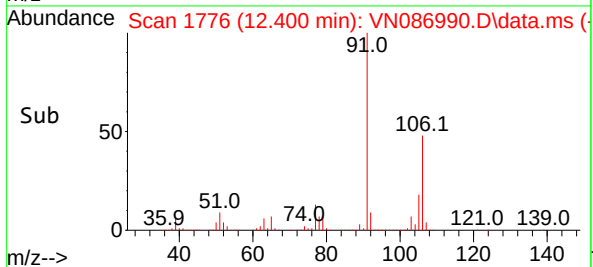
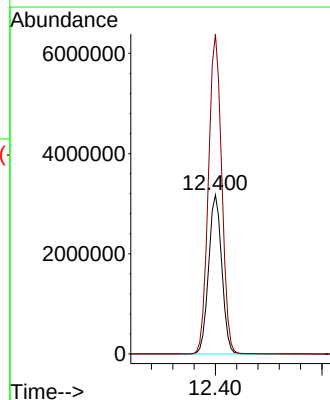
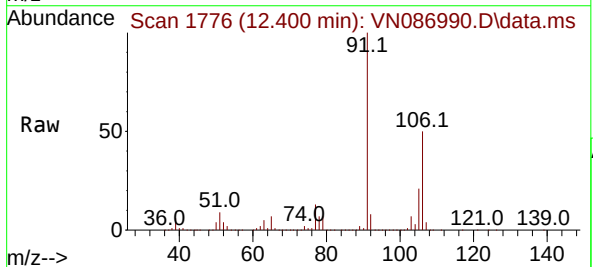
Manual Integrations
APPROVED

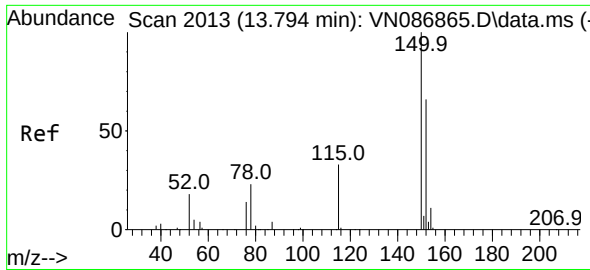
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#69
o-Xylene
Concen: 935.959 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

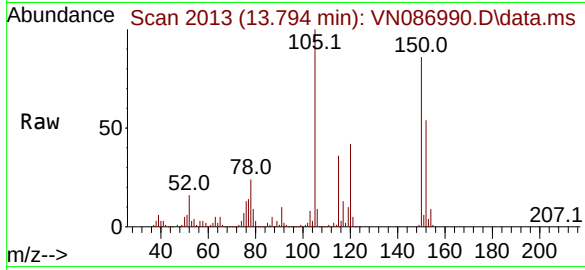
Tgt Ion:106 Resp: 5434901
Ion Ratio Lower Upper
106 100
91 203.3 106.1 318.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

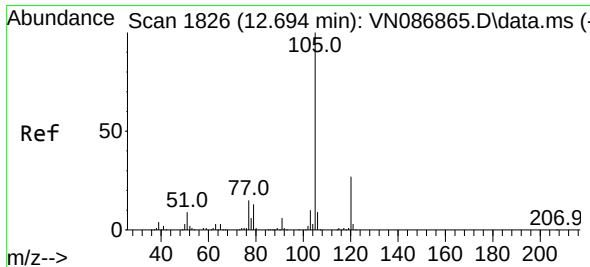
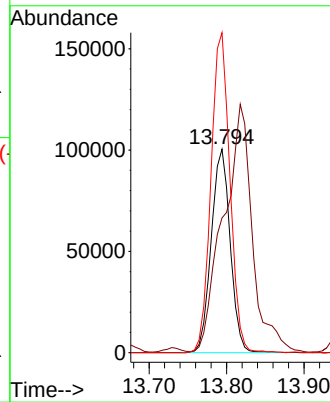
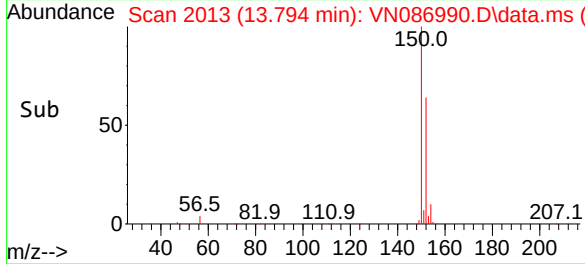
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion:152 Resp: 170552
Ion Ratio Lower Upper
152 100
115 0.0 30.1 90.5
150 157.0 0.0 345.0

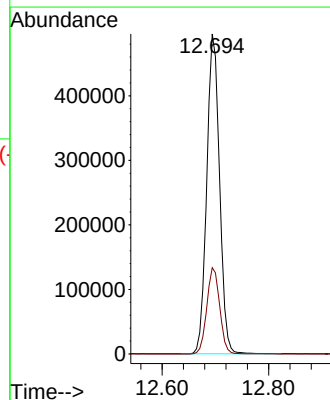
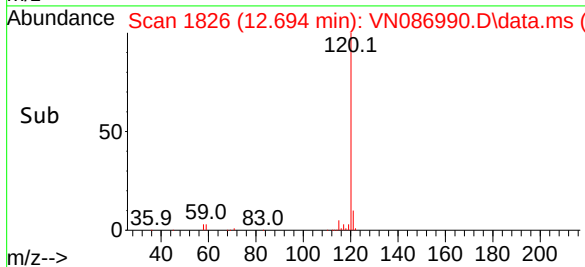
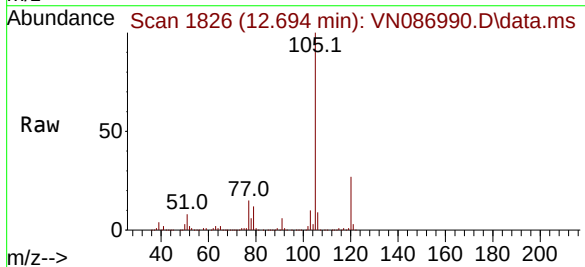
Manual Integrations
APPROVED

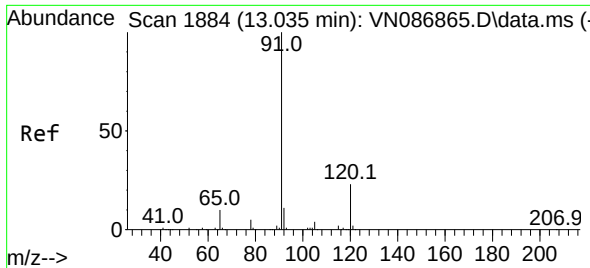
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#73
Isopropylbenzene
Concen: 66.324 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

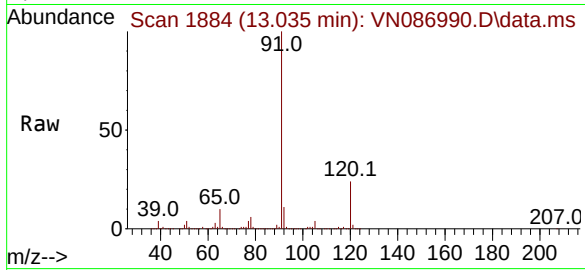
Tgt Ion:105 Resp: 824068
Ion Ratio Lower Upper
105 100
120 27.3 13.5 40.4





#78
n-propylbenzene
Concen: 138.829 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

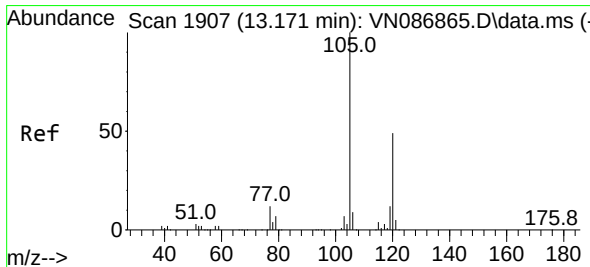
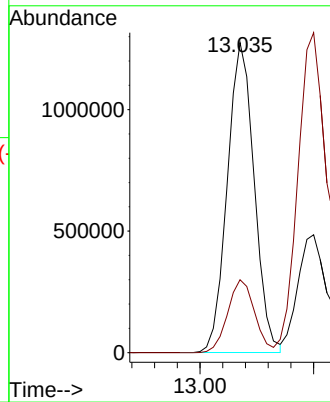
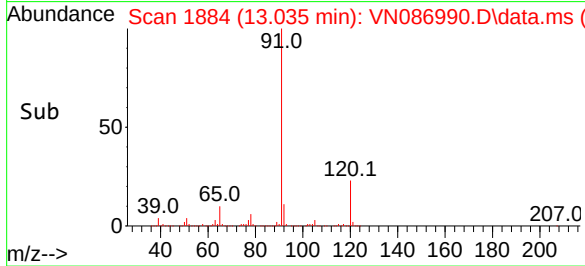
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



Tgt Ion: 91 Resp: 2096250
Ion Ratio Lower Upper
91 100
120 23.6 11.4 34.2

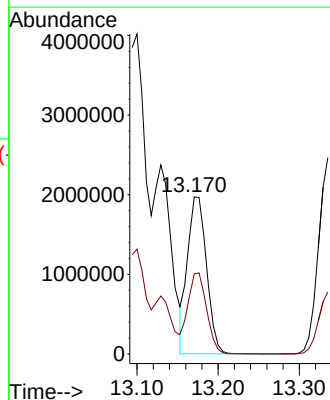
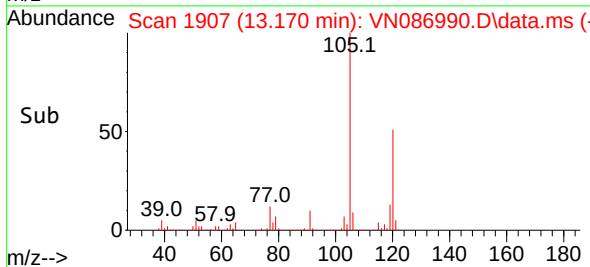
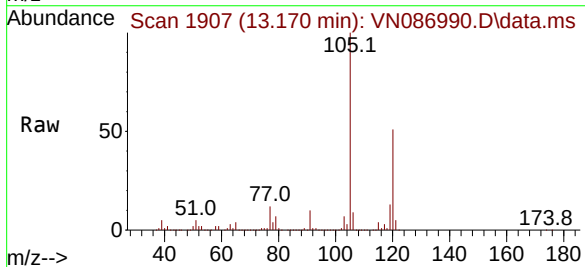
Manual Integrations
APPROVED

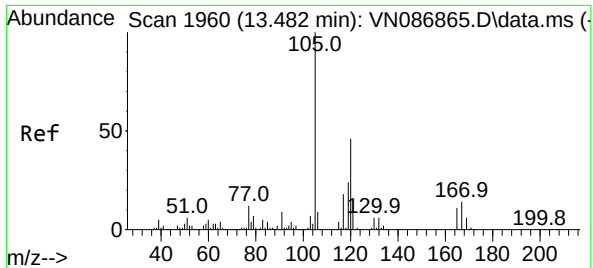
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#80
1,3,5-Trimethylbenzene
Concen: 313.725 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

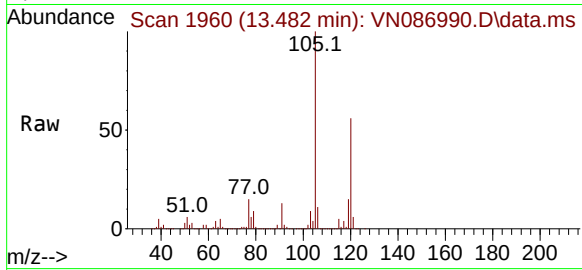
Tgt Ion:105 Resp: 3218251
Ion Ratio Lower Upper
105 100
120 50.9 24.9 74.6





#84
1,2,4-Trimethylbenzene
Concen: 1519.862 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

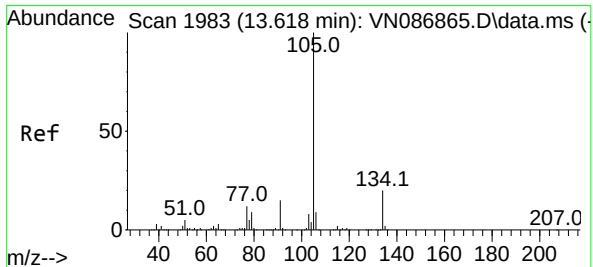
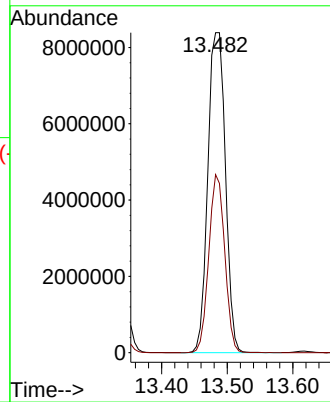
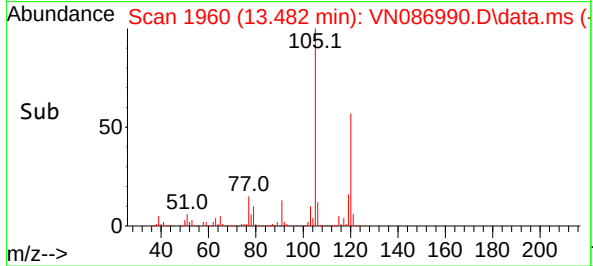
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



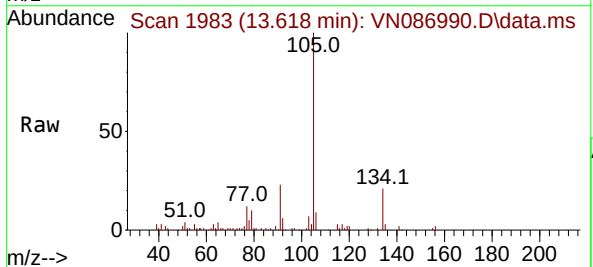
Tgt Ion:105 Resp:1563415
Ion Ratio Lower Upper
105 100
120 50.5 23.2 69.6

Manual Integrations
APPROVED

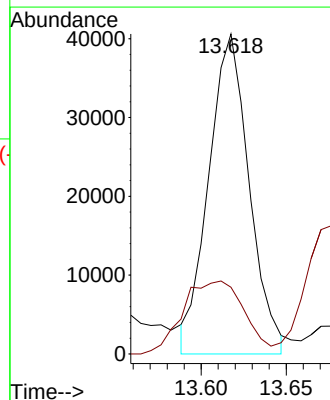
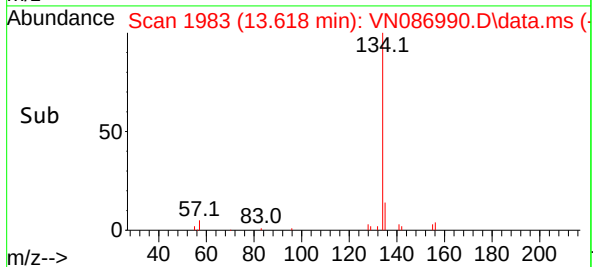
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

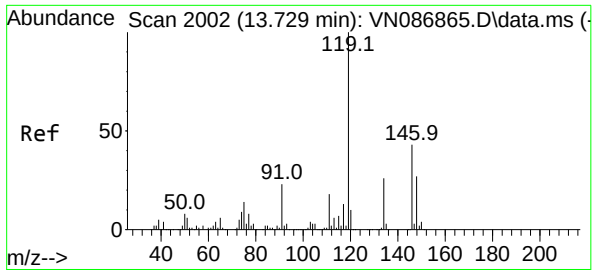


#85
sec-Butylbenzene
Concen: 4.932 ug/l m
RT: 13.618 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04



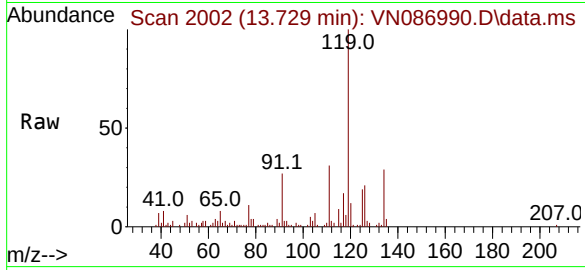
Tgt Ion:105 Resp: 67252
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0#





#86
p-Isopropyltoluene
Concen: 3.990 ug/l m
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04

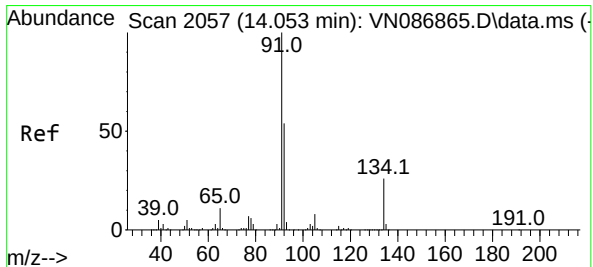
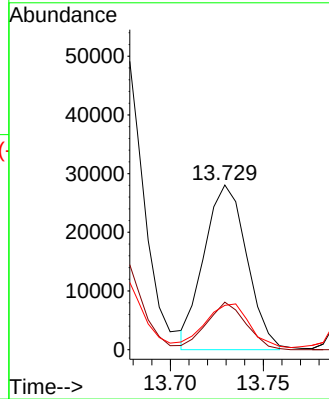
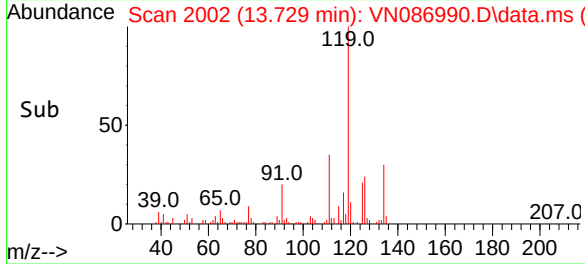
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605



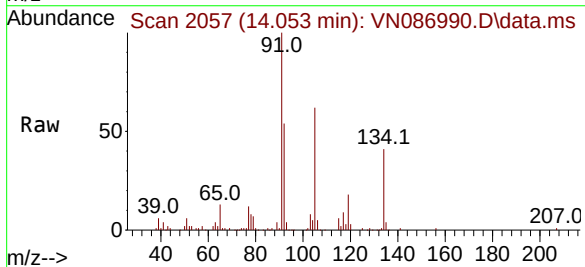
Tgt Ion: 119 Resp: 4498
Ion Ratio Lower Upper
119 100
134 58.1 13.5 40.4#
91 0.0 11.5 34.4#

Manual Integrations
APPROVED

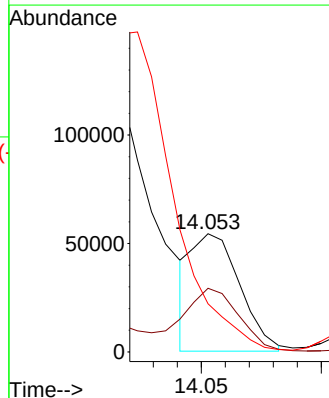
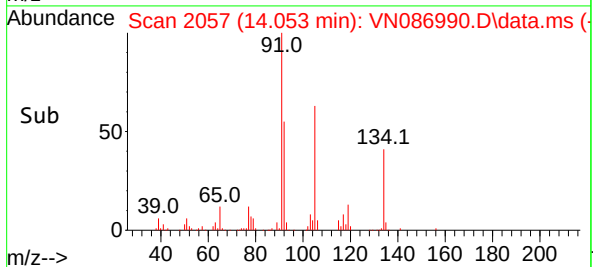
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#89
n-Butylbenzene
Concen: 6.992 ug/l m
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086990.D
Acq: 12 Jun 2025 20:04



Tgt Ion: 91 Resp: 76337
Ion Ratio Lower Upper
91 100
92 132.2 27.5 82.4#
134 0.0 13.0 39.0#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

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\82N060625W.M
Title : SW846 8260

Signal : TIC: VN086990.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.236	1062	1068	1081	rVB2	326797	968763	1.11%	0.287%
2	9.106	1207	1216	1229	rBV	554553	1227425	1.40%	0.363%
3	10.571	1457	1465	1469	rBV	811076	1506525	1.72%	0.446%
4	10.635	1469	1476	1489	rVB	5719410	10648138	12.17%	3.149%
5	11.871	1678	1686	1693	rBV	651356	1229163	1.40%	0.364%
6	11.965	1693	1702	1711	rVV	21257244	37263550	42.58%	11.021%
7	12.071	1711	1720	1735	rVB2	40278883	87517220	100.00%	25.884%
8	12.400	1763	1776	1795	rVB	17630633	30349570	34.68%	8.976%
9	12.694	1819	1826	1837	rBV	1156320	1917416	2.19%	0.567%
10	13.035	1876	1884	1889	rBV	2458769	4048439	4.63%	1.197%
11	13.100	1889	1895	1898	rVV	9835066	17204141	19.66%	5.088%
12	13.129	1898	1900	1904	rVV	5537357	7830160	8.95%	2.316%
13	13.170	1904	1907	1915	rVB	5415712	8750246	10.00%	2.588%
14	13.335	1928	1935	1946	rVB	5942960	9806921	11.21%	2.901%
15	13.482	1947	1960	1967	rBV	26811530	45140452	51.58%	13.351%
16	13.818	2007	2017	2033	rVB	7801544	14263454	16.30%	4.219%
17	13.947	2033	2039	2041	rBV	692977	1005541	1.15%	0.297%
18	13.994	2041	2047	2063	rVB2	8014860	16167986	18.47%	4.782%
19	14.176	2072	2078	2084	rBV2	1337896	2343737	2.68%	0.693%
20	14.241	2084	2089	2092	rVV	1217656	2085105	2.38%	0.617%
21	14.270	2092	2094	2099	rVV	1068239	1457933	1.67%	0.431%
22	14.329	2099	2104	2110	rVB	1760276	2715130	3.10%	0.803%
23	14.441	2119	2123	2132	rVB2	1606808	2787867	3.19%	0.825%
24	14.653	2151	2159	2162	rBV	1165294	1910734	2.18%	0.565%
25	14.694	2162	2166	2171	rVB	1500185	2281020	2.61%	0.675%
26	14.923	2200	2205	2211	rBV	1486814	2489615	2.84%	0.736%
27	15.053	2217	2227	2233	rBV2	2423550	5157621	5.89%	1.525%
28	15.206	2246	2253	2261	rBV2	630690	1182674	1.35%	0.350%
29	15.312	2261	2271	2277	rBV3	417752	1113570	1.27%	0.329%
30	15.641	2306	2327	2337	rBV	6603942	13250179	15.14%	3.919%
31	15.741	2337	2344	2351	rBV	448559	890592	1.02%	0.263%
32	16.776	2513	2520	2522	rBV	899617	1595886	1.82%	0.472%

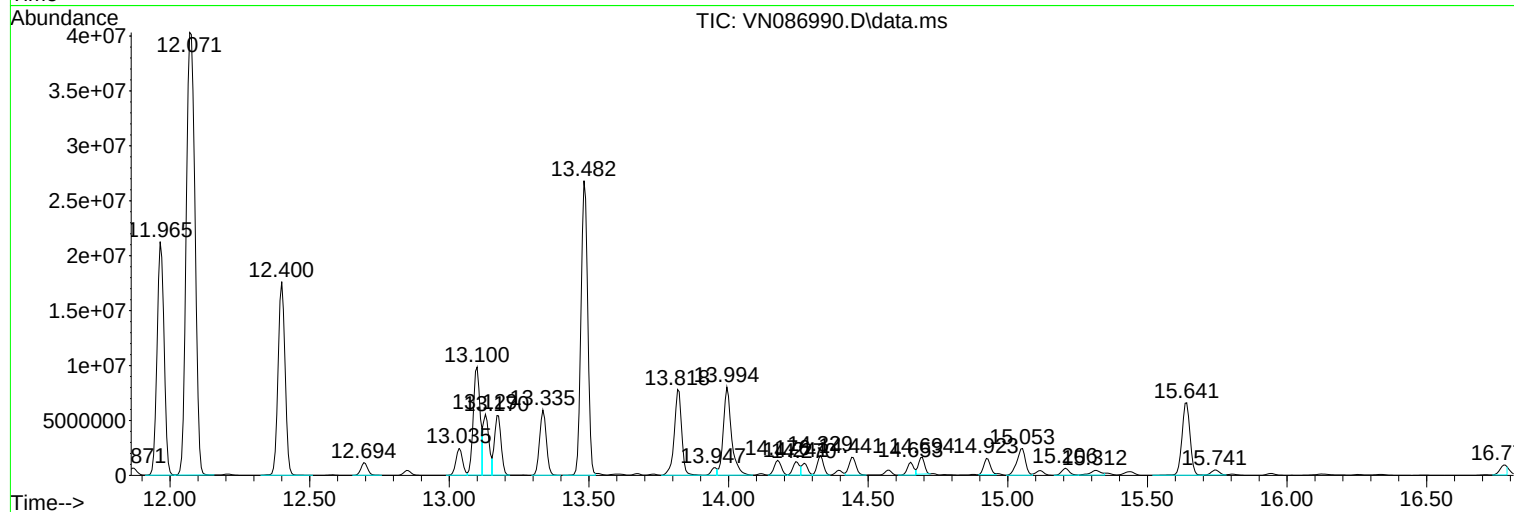
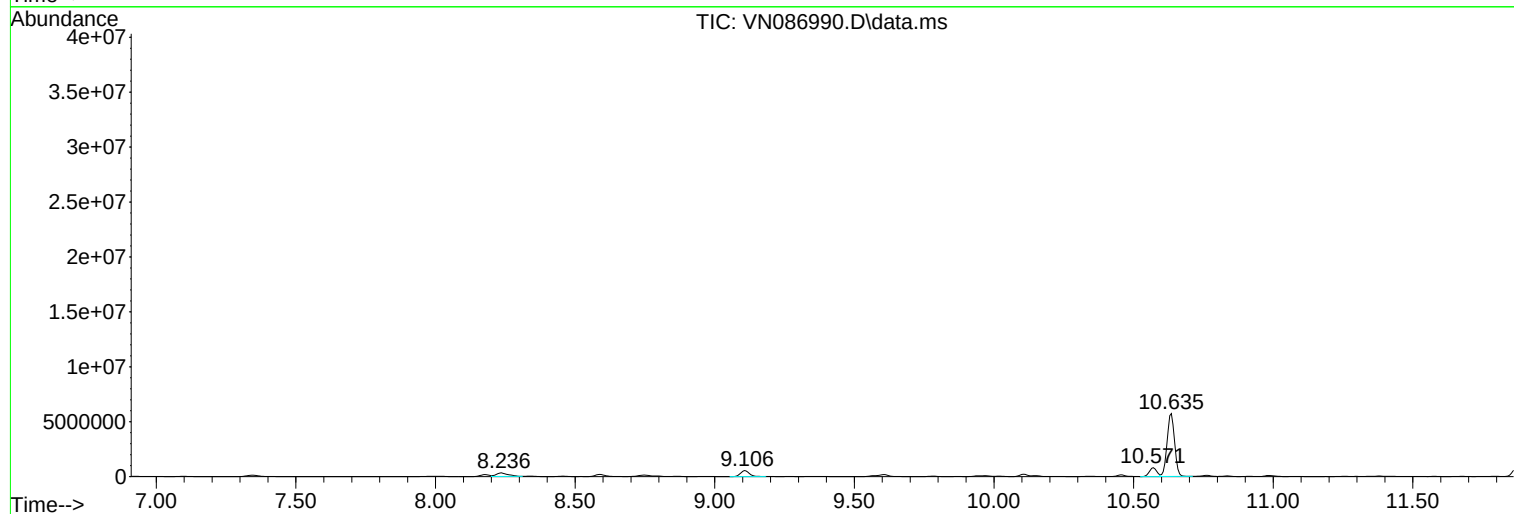
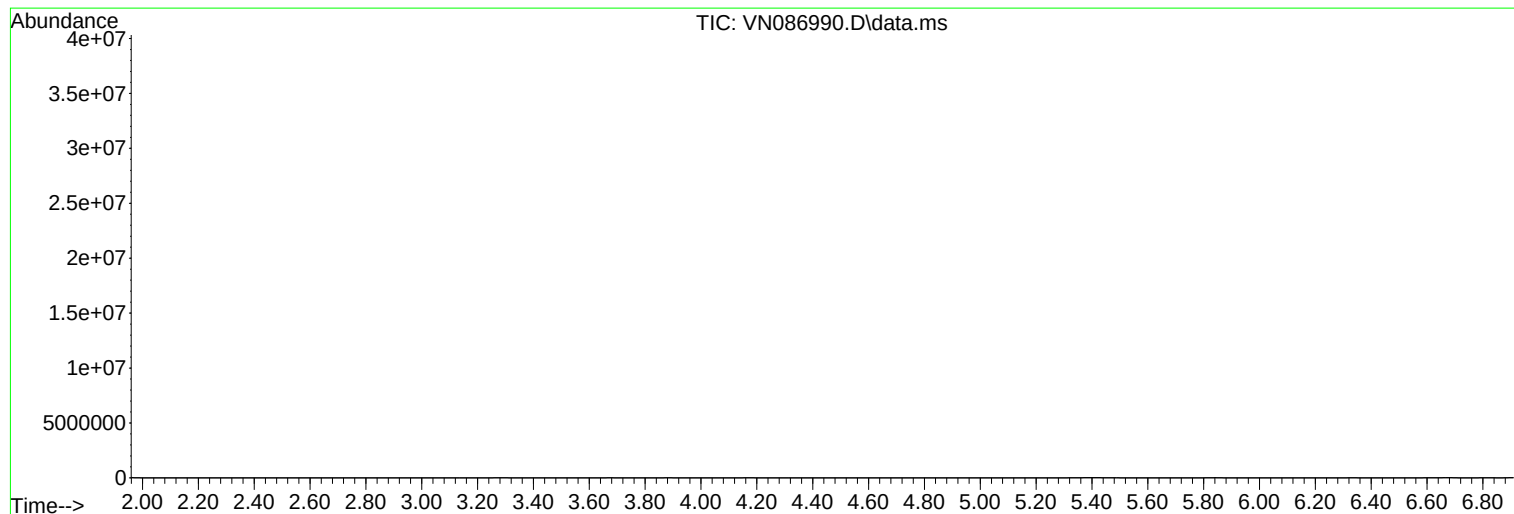
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

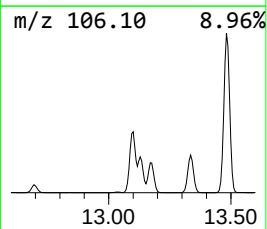
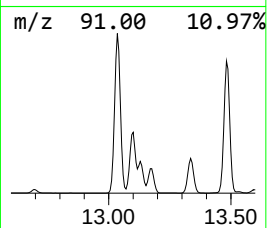
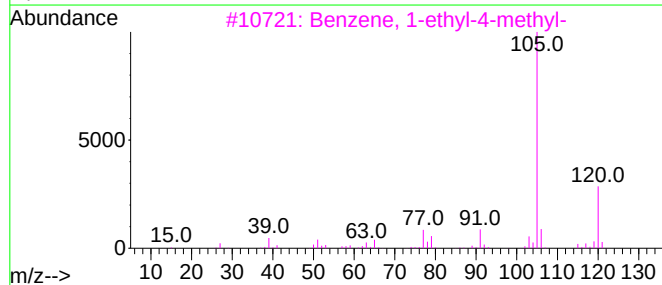
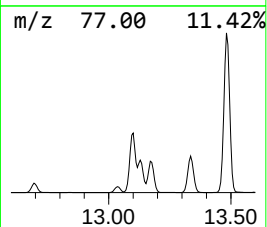
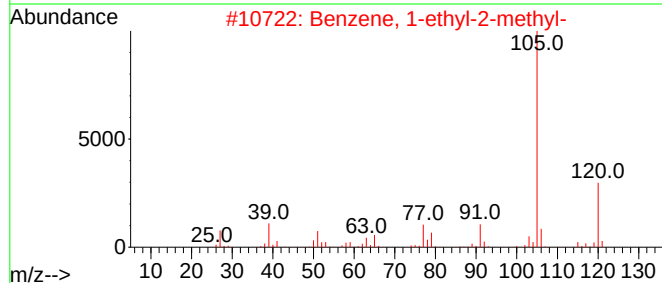
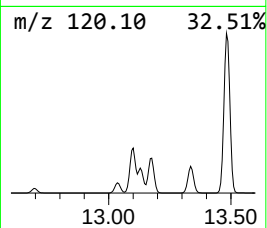
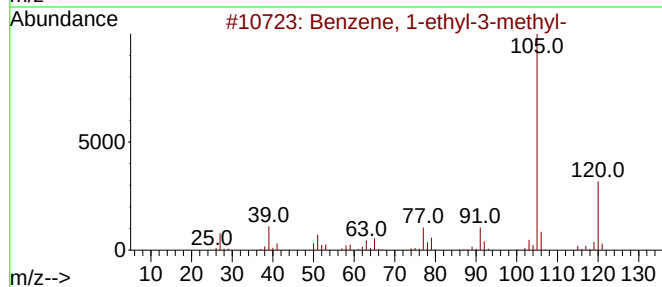
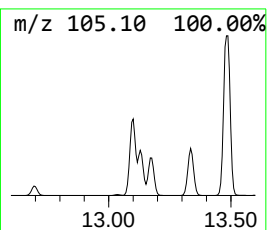
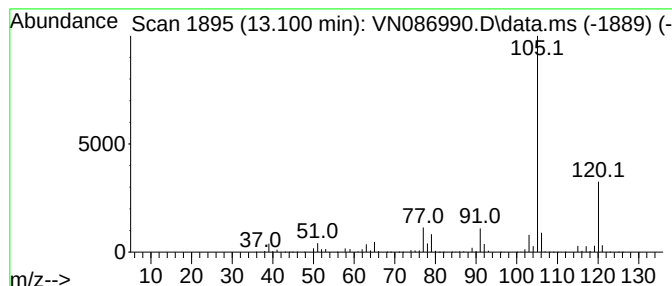
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Quant Title : SW846 8260

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.100	60.31 ug/l	17204100	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
2			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4			Mesitylene	120	C9H12	000108-67-8	91
5			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

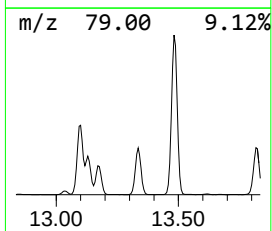
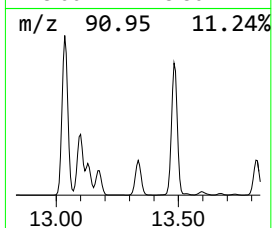
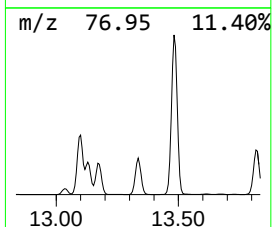
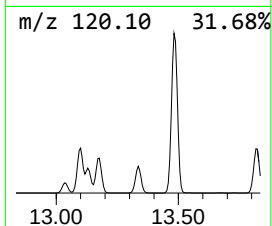
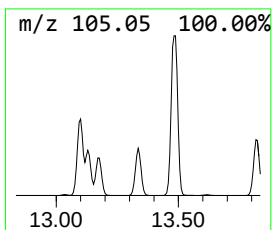
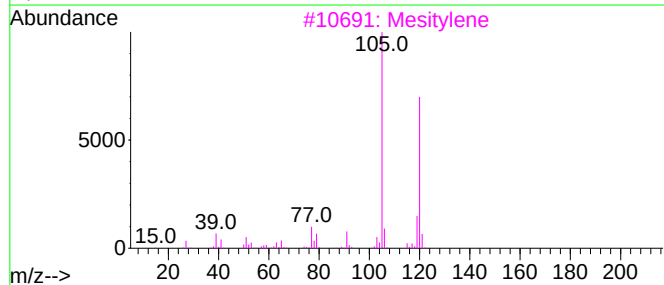
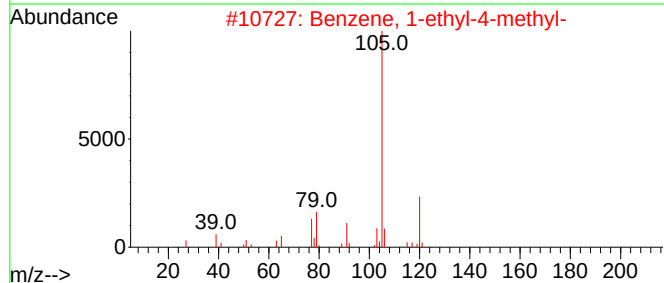
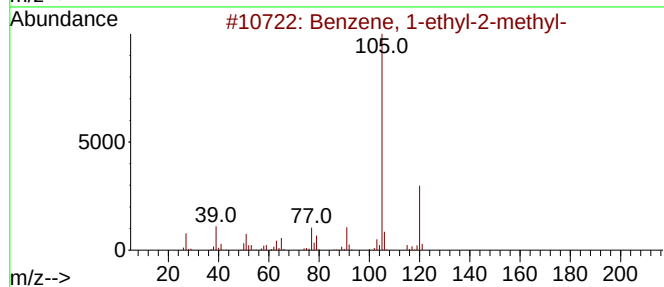
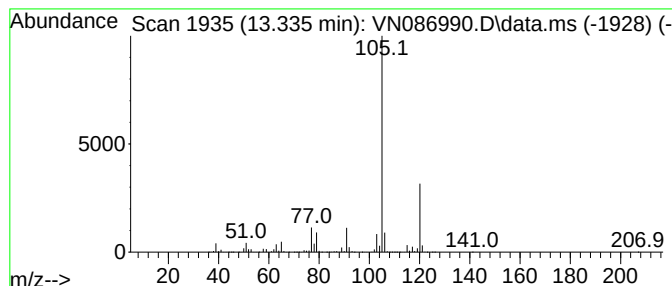
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 2 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	34.38 ug/l	9806920	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
3			Mesitylene	120	C9H12	000108-67-8	91
4			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

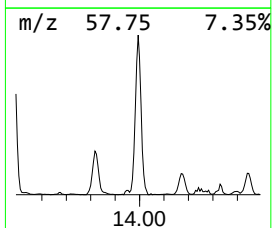
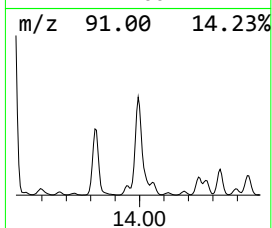
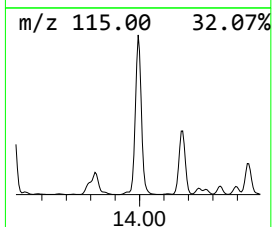
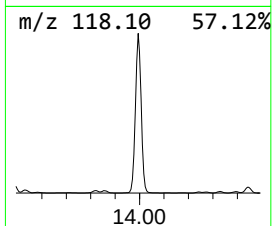
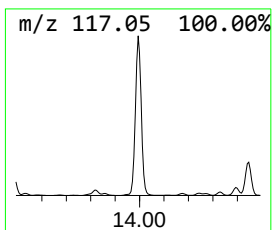
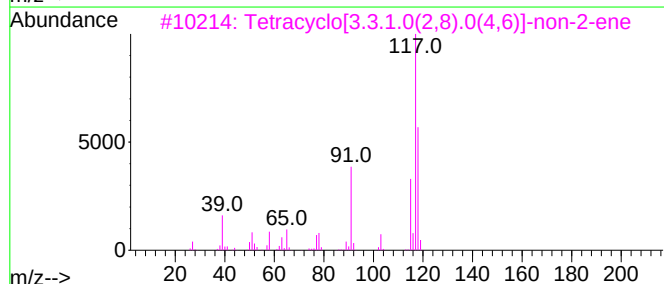
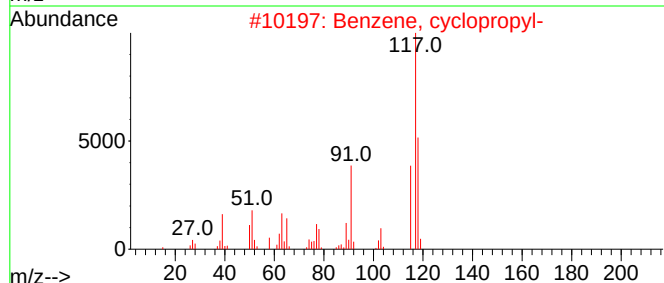
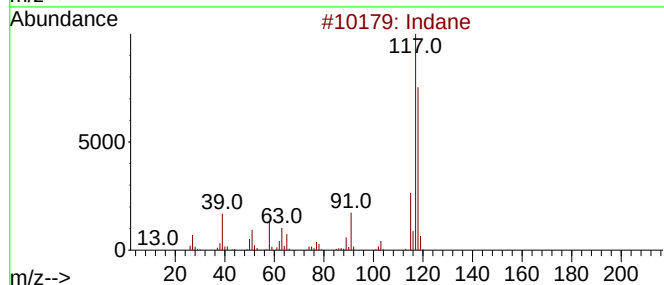
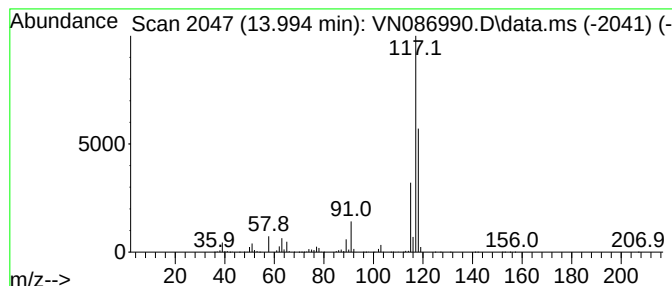
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 3 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.994	56.68 ug/l	16168000	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	87
2			Benzene, cyclopropyl-	118	C9H10	000873-49-4	74
3			Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	72
4			Benzene, 2-propenyl-	118	C9H10	000300-57-2	59
5			Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

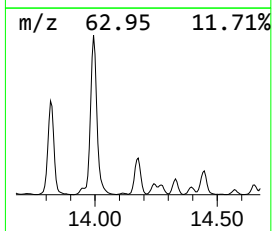
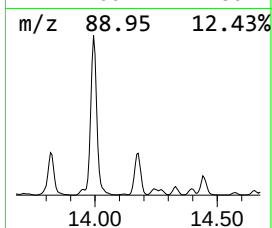
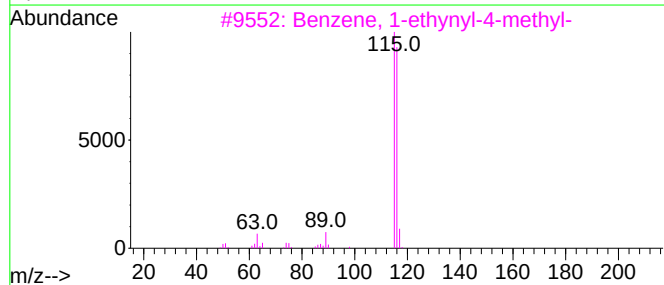
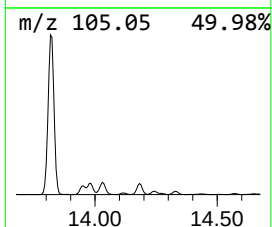
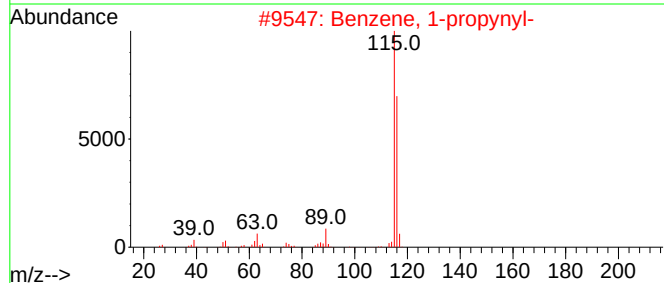
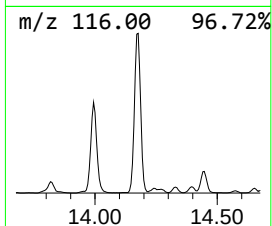
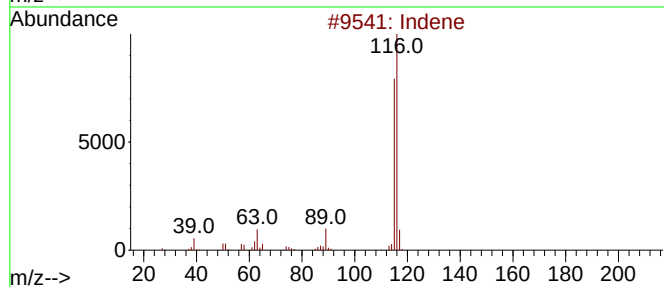
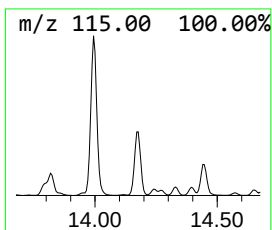
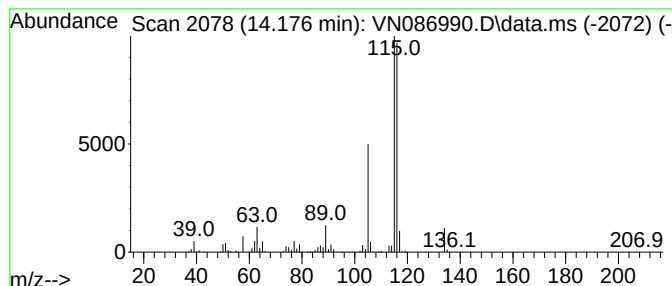
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 4 Indene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.176	8.22 ug/l	2343740	1,4-Dichlorobenzene-d4	13.794

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	95
2	Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
3	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	87
4	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	83
5	3-Methylphenylacetylene	116	C9H8	000766-82-5	83



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

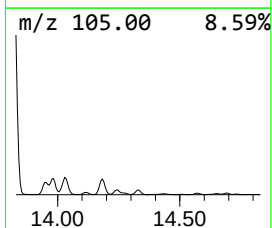
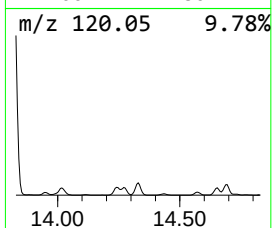
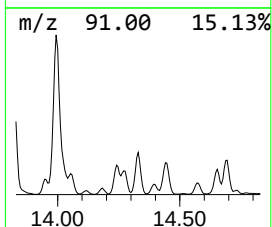
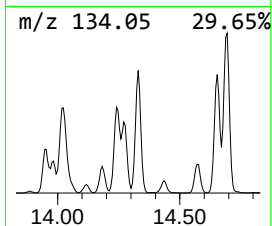
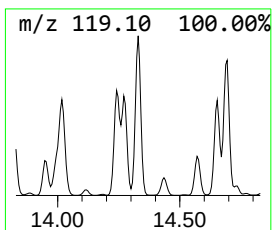
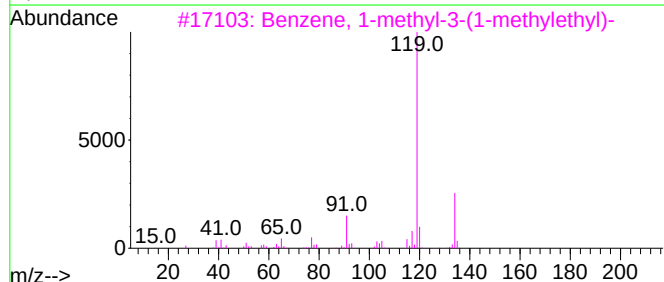
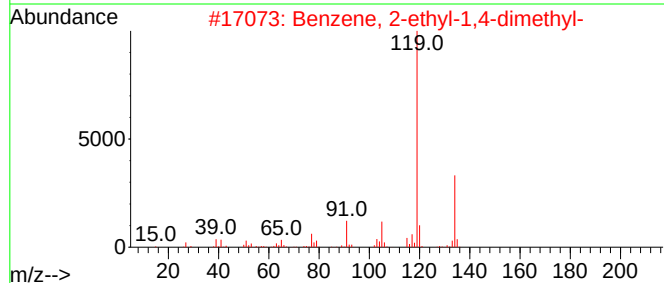
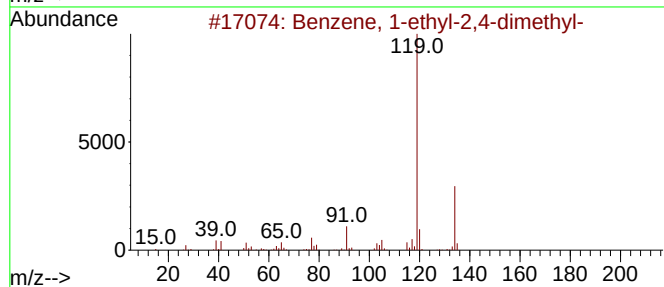
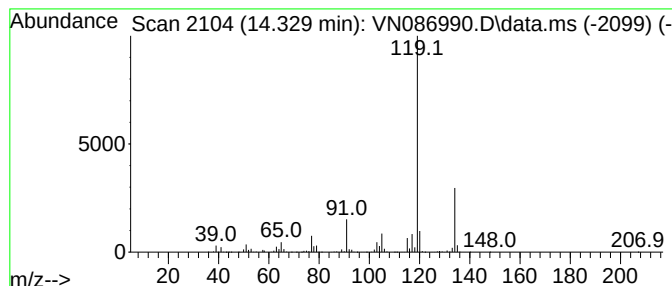
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Quant Title : SW846 8260

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

Peak Number 5 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.329	9.52 ug/l	2715130	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	97
2			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
4			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
5			o-Cymene	134	C10H14	000527-84-4	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

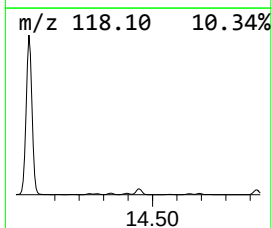
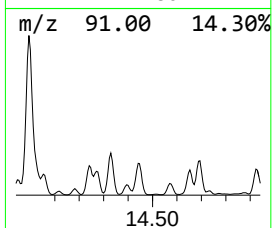
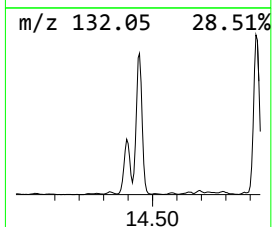
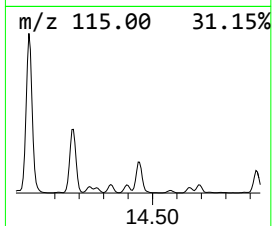
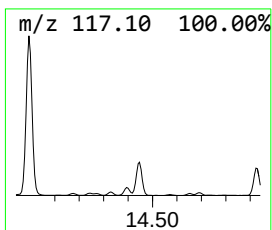
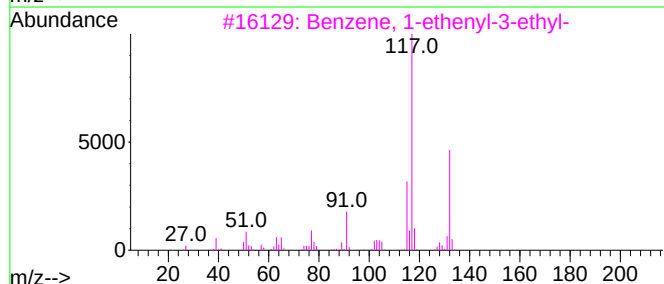
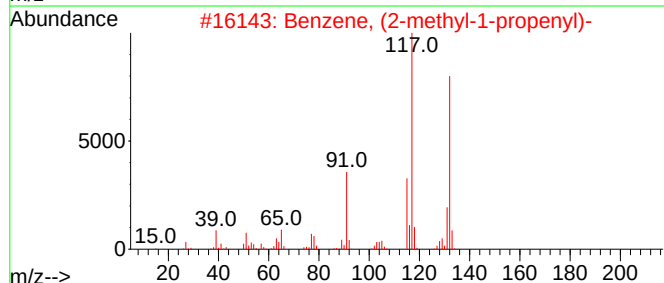
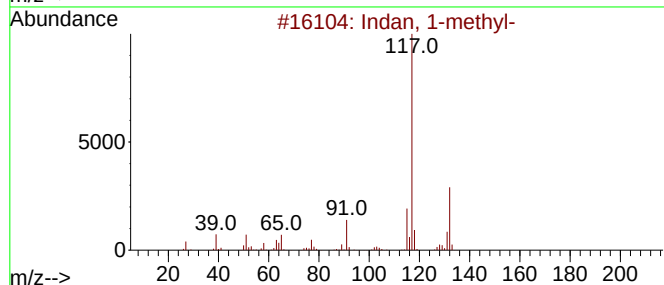
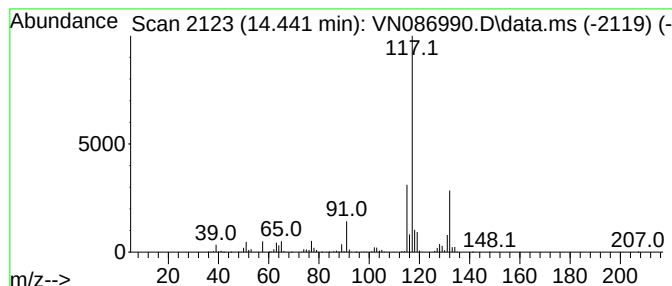
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Quant Title : SW846 8260

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

Peak Number 6 Indan, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.441	9.77 ug/l	2787870	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indan, 1-methyl-	132	C10H12	000767-58-8	87
2			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
3			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	86
4			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	86
5			1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	83



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

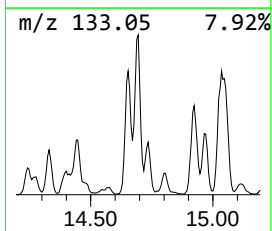
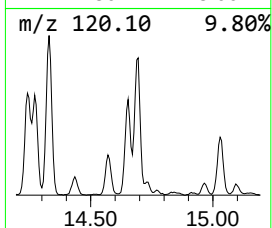
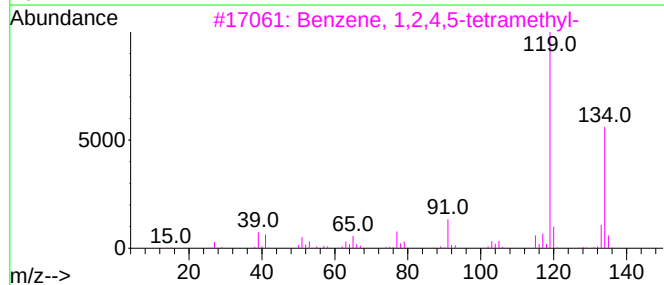
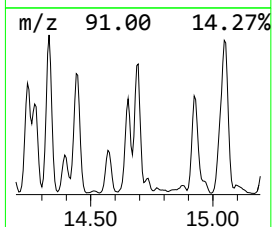
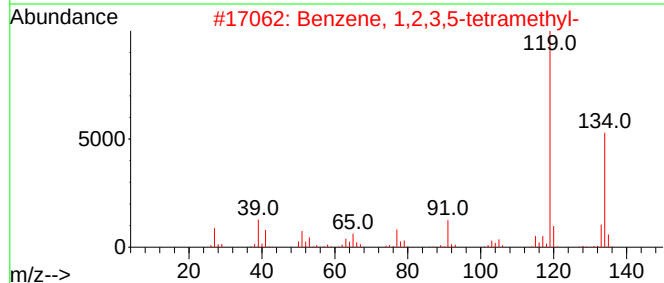
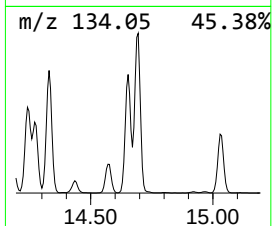
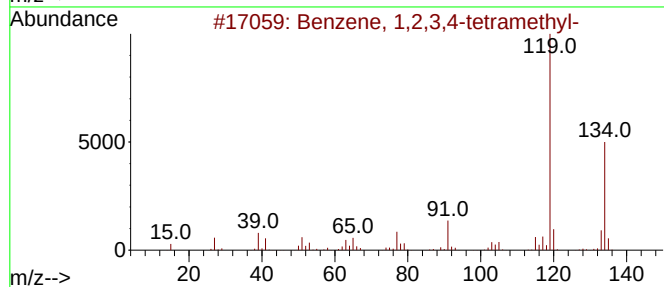
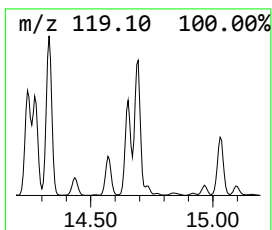
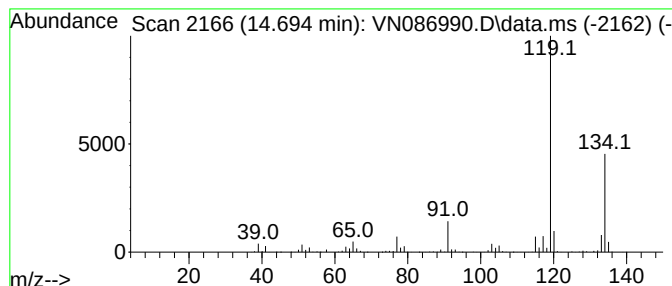
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Quant Title : SW846 8260

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

Peak Number 7 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.694	8.00 ug/l	2281020	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
3			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
4			o-Cymene	134	C10H14	000527-84-4	96
5			p-Cymene	134	C10H14	000099-87-6	95



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

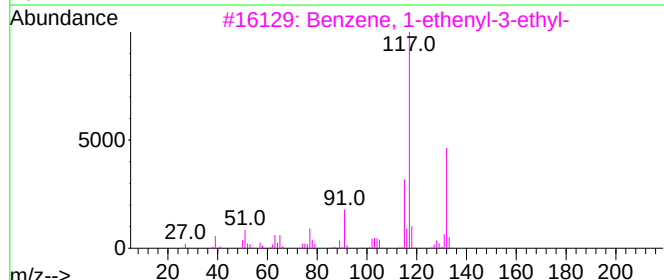
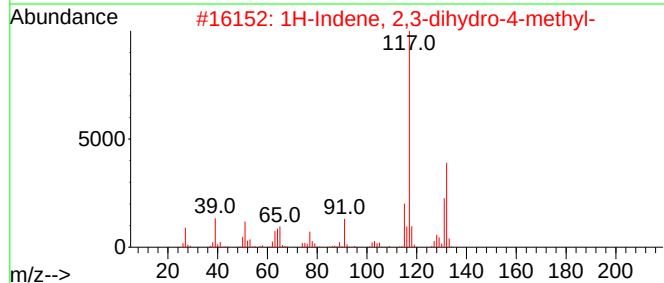
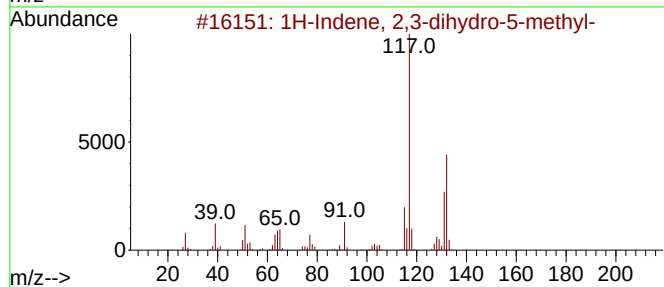
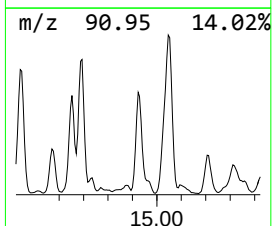
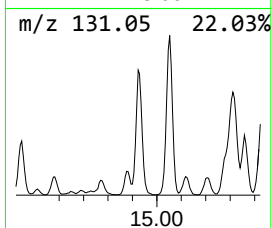
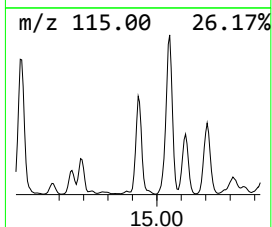
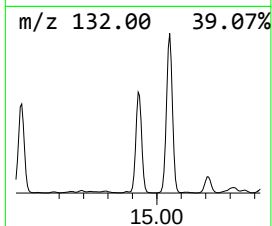
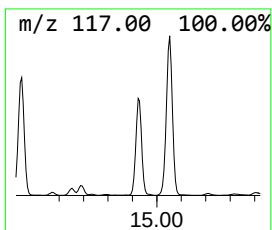
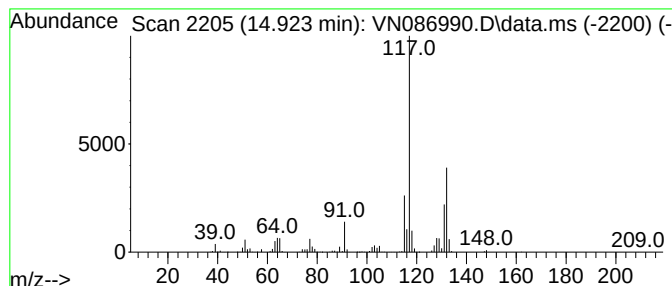
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Quant Title : SW846 8260

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

Peak Number 8 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.923	8.73 ug/l	2489620	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	95
2			1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	95
3			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
4			Indan, 1-methyl-	132	C10H12	000767-58-8	87
5			Benzene, 2-butenyl-	132	C10H12	001560-06-1	83



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

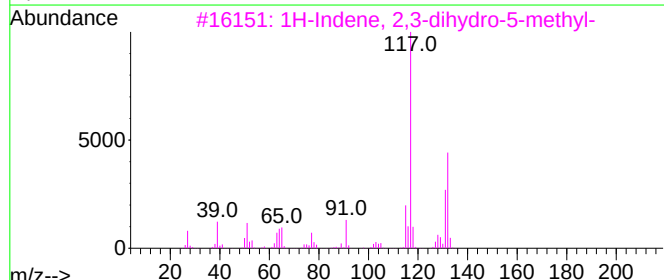
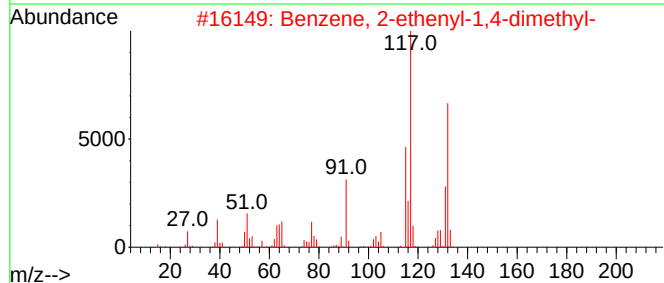
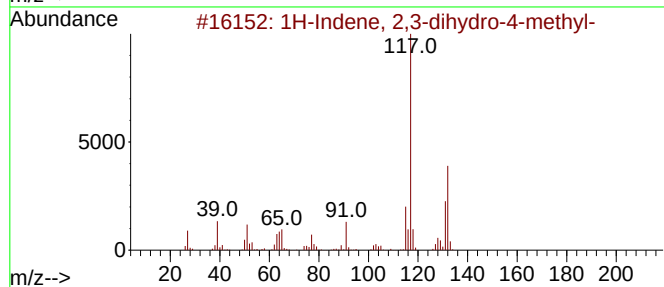
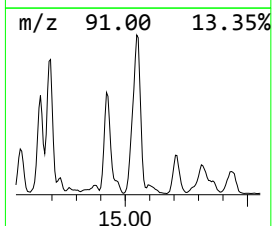
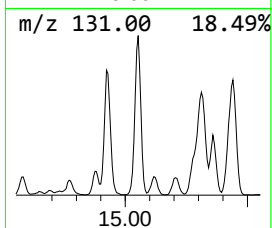
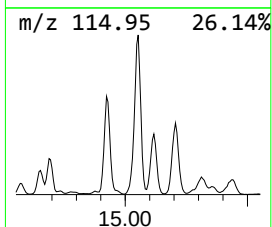
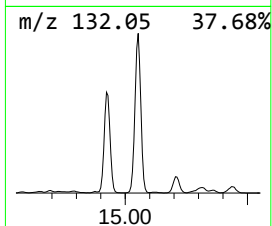
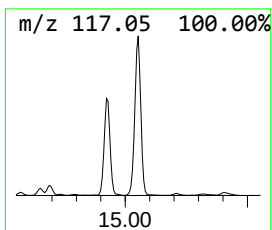
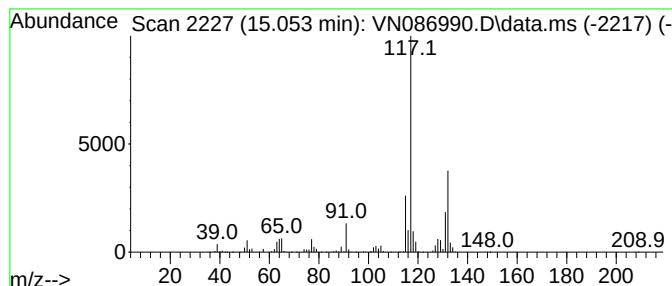
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

Peak Number 9 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD			R.T.
15.053	18.08 ug/l	5157620	1,4-Dichlorobenzene-d4			13.794
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-		132	C10H12	000824-22-6	95
2	Benzene, 2-ethenyl-1,4-dimethyl-		132	C10H12	002039-89-6	92
3	1H-Indene, 2,3-dihydro-5-methyl-		132	C10H12	000874-35-1	91
4	Indan, 1-methyl-		132	C10H12	000767-58-8	91
5	Benzene, (2-methyl-1-propenyl)-		132	C10H12	000768-49-0	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

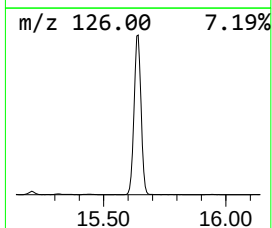
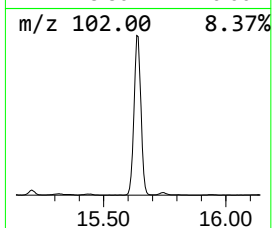
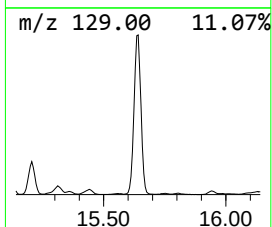
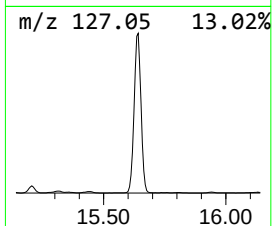
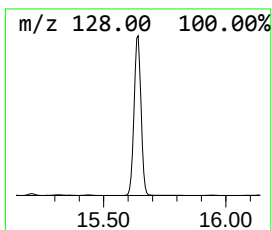
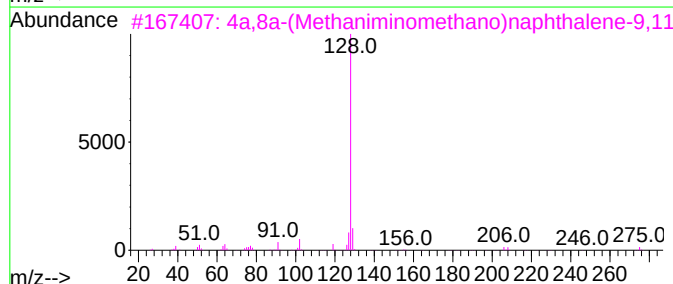
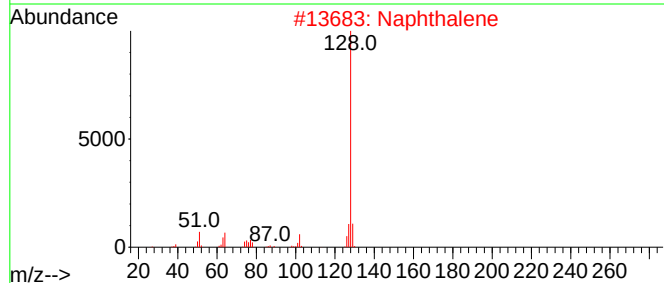
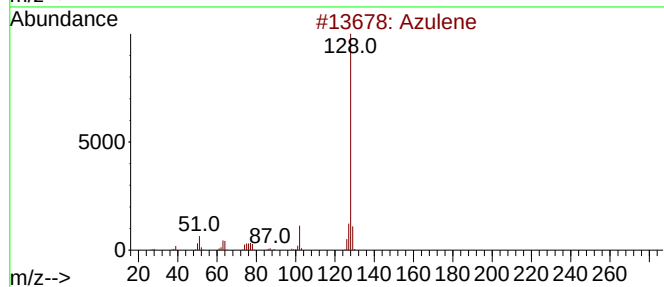
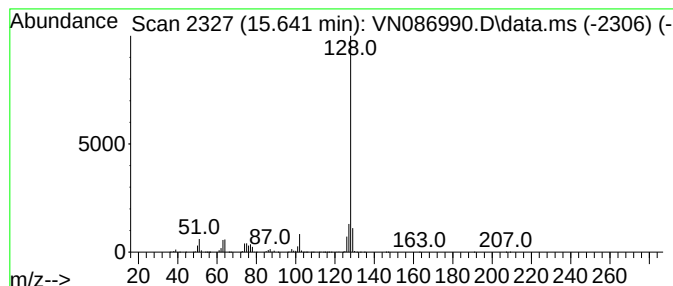
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Quant Title : SW846 8260

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

Peak Number 10 Azulene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.641	46.45 ug/l	13250200	1,4-Dichlorobenzene-d4	13.794

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Azulene	128	C10H8	000275-51-4	95
2			Naphthalene	128	C10H8	000091-20-3	95
3			4a,8a-(Methaniminomethano)naphth...	275	C18H13NO2	069915-10-2	74
4			1,3-Dicyanobenzene	128	C8H4N2	000626-17-5	59
5			4-Phenylbut-3-ene-1-yne	128	C10H8	100022-12-0	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086990.D
Acq On : 12 Jun 2025 20:04
Operator : JC\MD
Sample : Q2268-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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
Benzene, 1-ethy...	13.100	60.3	ug/l	17204100	4	13.794	14263500	50.0
Benzene, 1-ethy...	13.335	34.4	ug/l	9806920	4	13.794	14263500	50.0
Indane	13.994	56.7	ug/l	16168000	4	13.794	14263500	50.0
Indene	14.176	8.2	ug/l	2343740	4	13.794	14263500	50.0
Benzene, 1-ethy...	14.329	9.5	ug/l	2715130	4	13.794	14263500	50.0
Indan, 1-methyl-	14.441	9.8	ug/l	2787870	4	13.794	14263500	50.0
Benzene, 1,2,3,...	14.694	8.0	ug/l	2281020	4	13.794	14263500	50.0
1H-Indene, 2,3-...	14.923	8.7	ug/l	2489620	4	13.794	14263500	50.0
1H-Indene, 2,3-...	15.053	18.1	ug/l	5157620	4	13.794	14263500	50.0
Azulene	15.641	46.5	ug/l	13250200	4	13.794	14263500	50.0

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-3-20250605DL			SDG No.:	Q2268
Lab Sample ID:	Q2268-08DL			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:	Prep Date	Date Analyzed	Prep Batch ID
VN087042.D	20		06/16/25 19:07	VN061625

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	29.0	UD	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	8.60	JD	3.20	20.0	ug/L
71-43-2	Benzene	3.00	UD	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	230	D	2.80	20.0	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-3-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-08DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087042.D	20		06/16/25 19:07	VN061625

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	800	D	2.60	20.0	ug/L
179601-23-1	m/p-Xylenes	2400	D	4.80	40.0	ug/L
95-47-6	o-Xylene	730	D	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	41.0	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	52.1		74 - 125	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	52.4		86 - 113	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	263000	8.23			
540-36-3	1,4-Difluorobenzene	521000	9.106			
3114-55-4	Chlorobenzene-d5	470000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	225000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-3-20250605DL	SDG No.:	Q2268
Lab Sample ID:	Q2268-08DL	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087042.D	20		06/16/25 19:07	VN061625

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\VN061625\
 Data File : VN087042.D
 Acq On : 16 Jun 2025 19:07
 Operator : JC\MD
 Sample : Q2268-08DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3-20250605DL

Quant Time: Jun 17 07:28:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

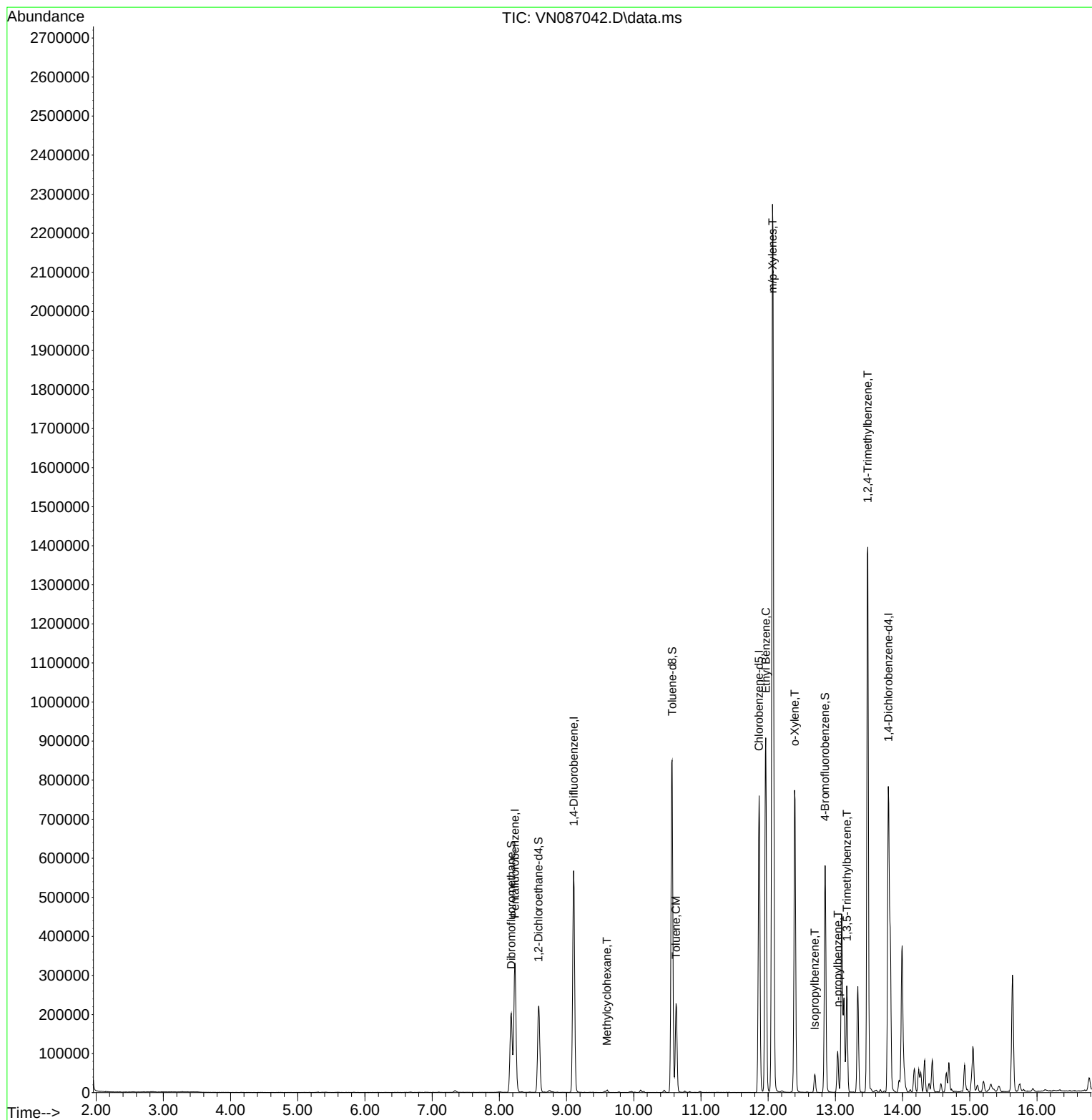
Internal Standards						
1) Pentafluorobenzene	8.230	168	263151	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	520533	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	469764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	224894	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	183686	52.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.177	113	158071	51.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.480%			
50) Toluene-d8	10.571	98	640406	52.441	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.880%			
62) 4-Bromofluorobenzene	12.847	95	228423	50.346	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.700%			
Target Compounds						Qvalue
39) Methylcyclohexane	9.600	83	2695	0.428	ug/l	90
52) Toluene	10.629	92	107188	11.669	ug/l	99
67) Ethyl Benzene	11.965	91	711759	39.883	ug/l	100
68) m/p-Xylenes	12.065	106	820104	120.046	ug/l	98
69) o-Xylene	12.394	106	237544	36.306	ug/l	97
73) Isopropylbenzene	12.694	105	33551	2.048	ug/l	99
78) n-propylbenzene	13.035	91	87269	4.383	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	158097	11.688	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	839398	61.884	ug/l	98

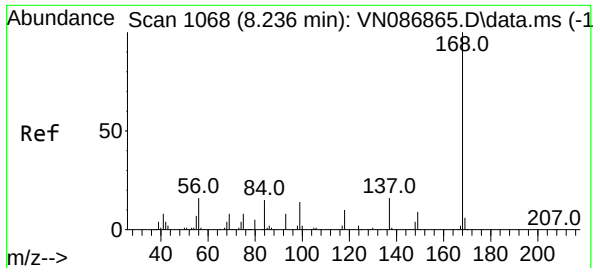
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087042.D
Acq On : 16 Jun 2025 19:07
Operator : JC\MD
Sample : Q2268-08DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

Quant Time: Jun 17 07:28:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

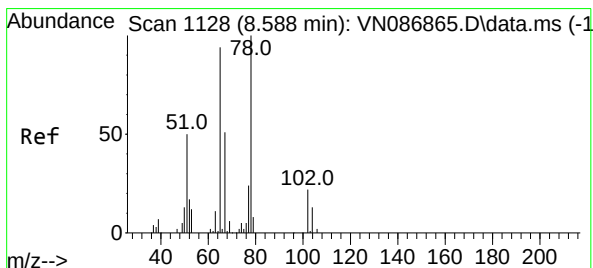
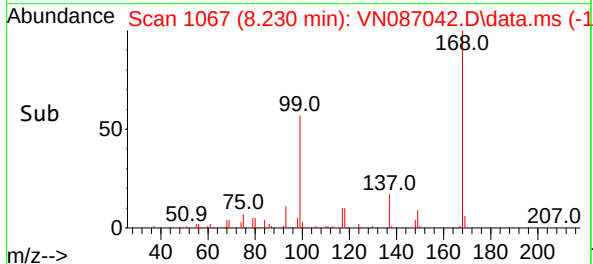
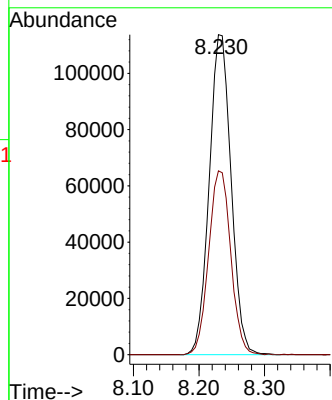
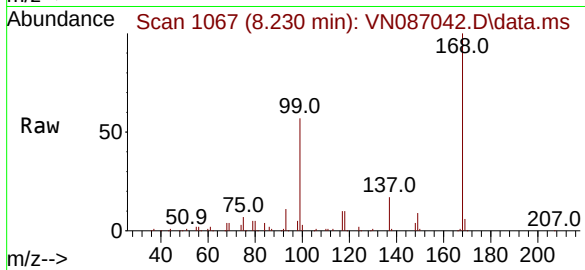
MW-3-20250605DL

Tgt Ion:168 Resp: 263151

Ion Ratio Lower Upper

168 100

99 57.5 49.1 73.7



#33

1,2-Dichloroethane-d4

Concen: 52.135 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN087042.D

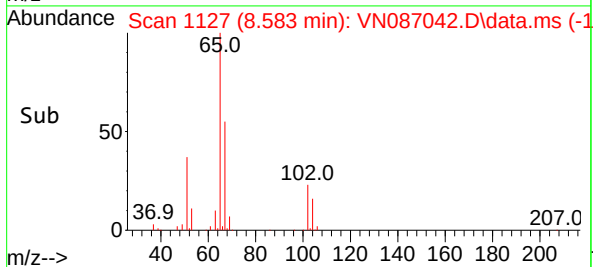
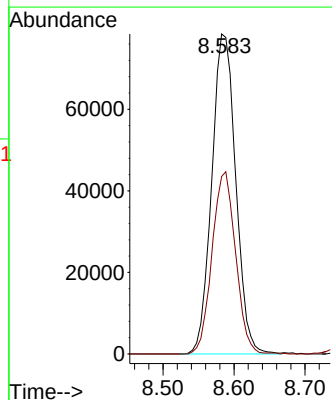
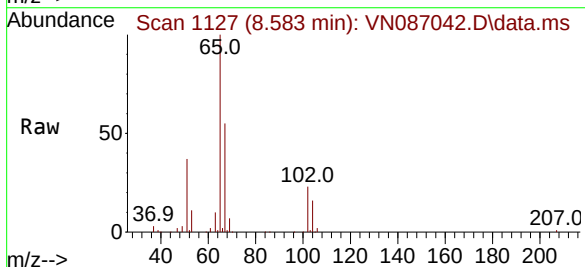
Acq: 16 Jun 2025 19:07

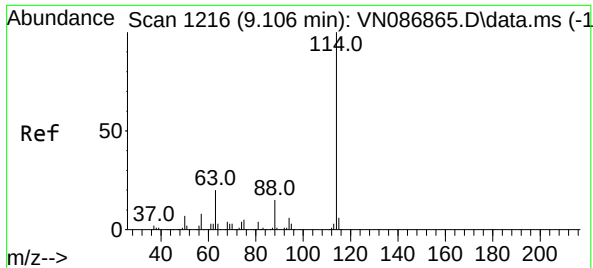
Tgt Ion: 65 Resp: 183686

Ion Ratio Lower Upper

65 100

67 55.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL

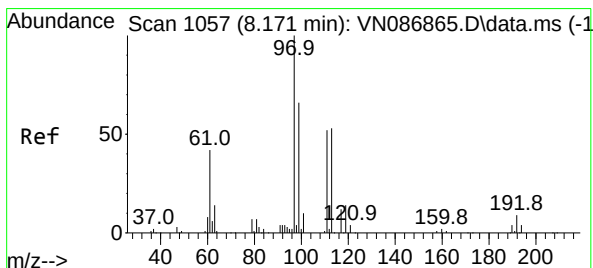
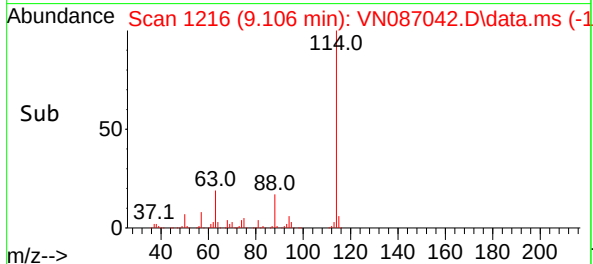
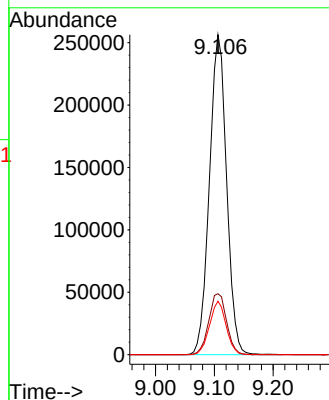
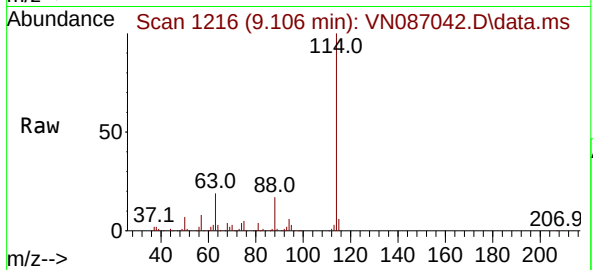
Tgt Ion:114 Resp: 520533

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 16.7 0.0 30.2



#35

Dibromofluoromethane

Concen: 51.242 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

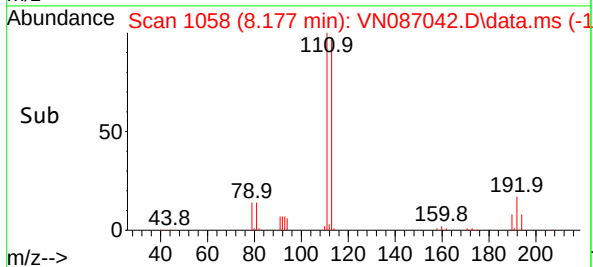
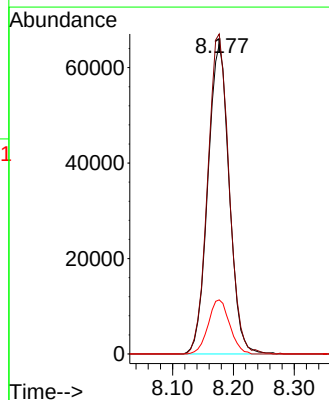
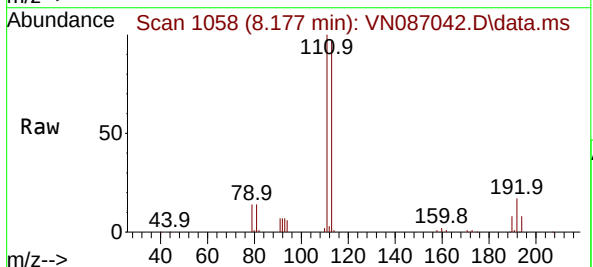
Tgt Ion:113 Resp: 158071

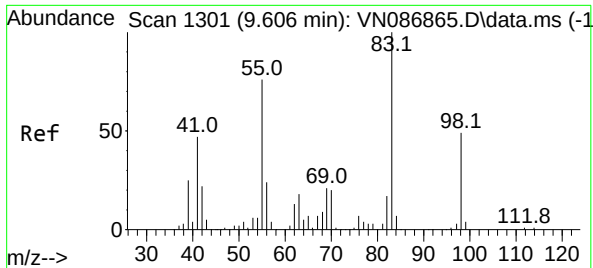
Ion Ratio Lower Upper

113 100

111 103.2 84.2 126.2

192 17.6 14.2 21.4





#39

Methylcyclohexane

Concen: 0.428 ug/l

RT: 9.600 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN087042.D

Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL

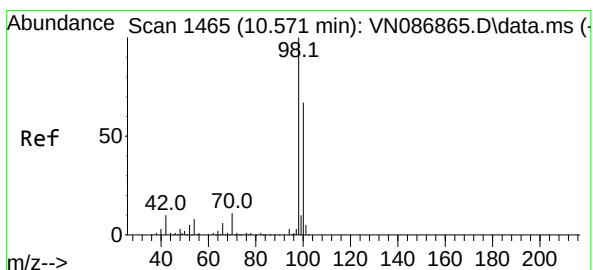
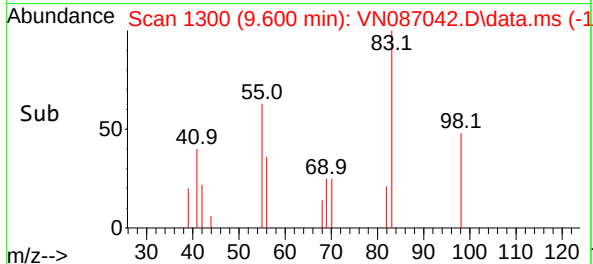
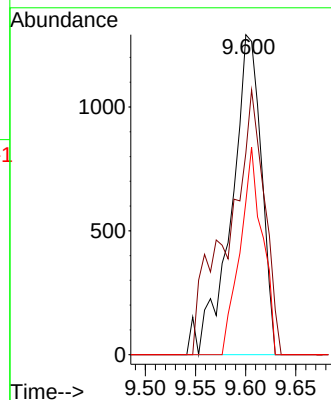
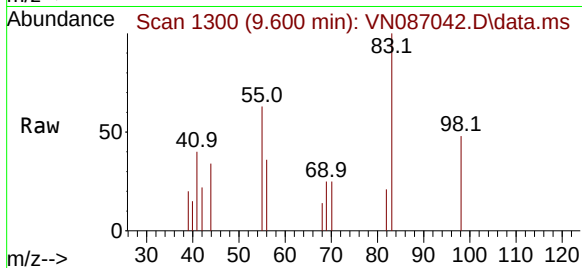
Tgt Ion: 83 Resp: 2695

Ion Ratio Lower Upper

83 100

55 63.0 61.0 91.6

98 47.8 38.9 58.3



#50

Toluene-d8

Concen: 52.441 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN087042.D

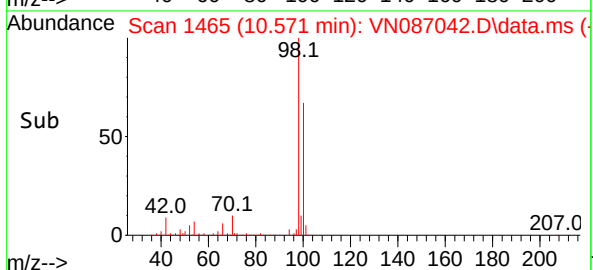
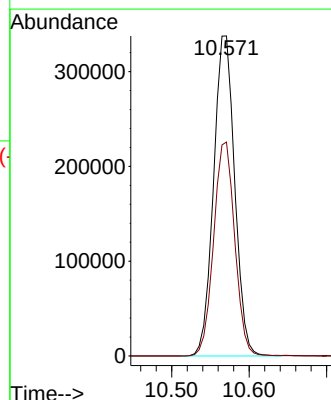
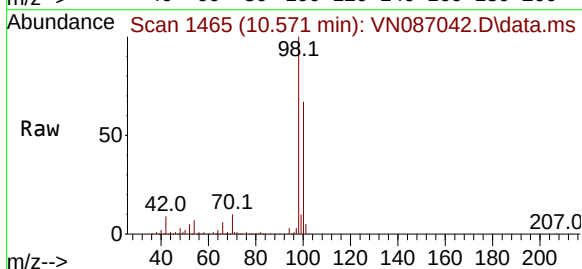
Acq: 16 Jun 2025 19:07

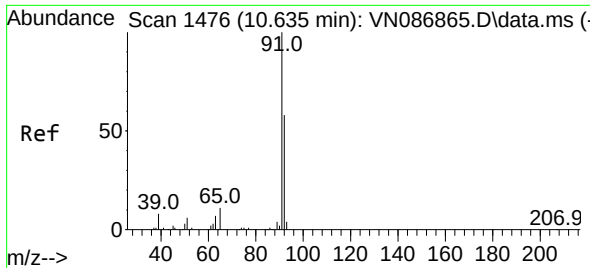
Tgt Ion: 98 Resp: 640406

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.0

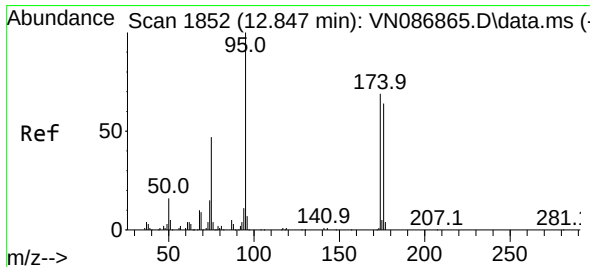
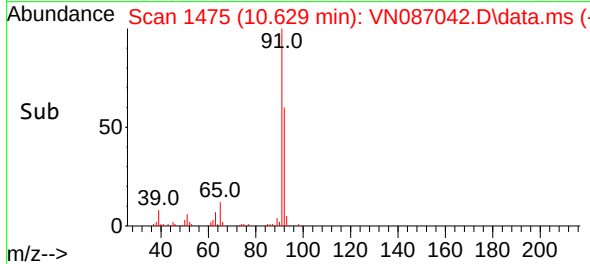
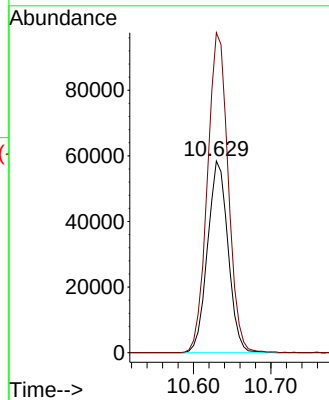
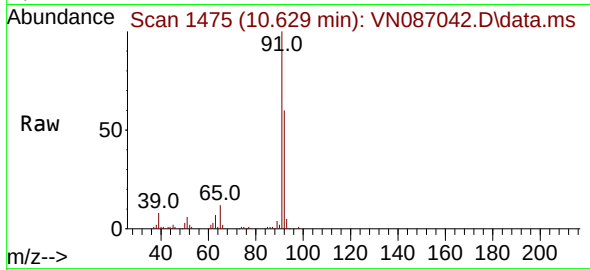




#52
Toluene
Concen: 11.669 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

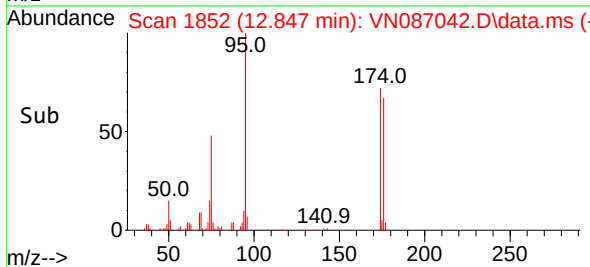
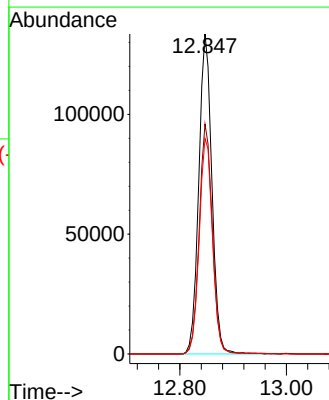
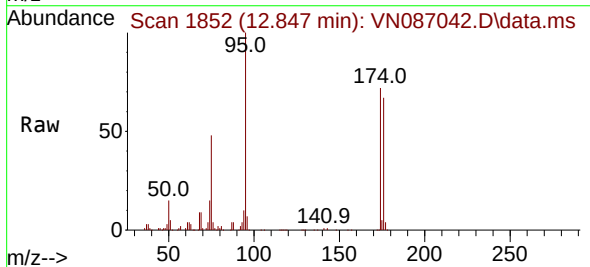
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

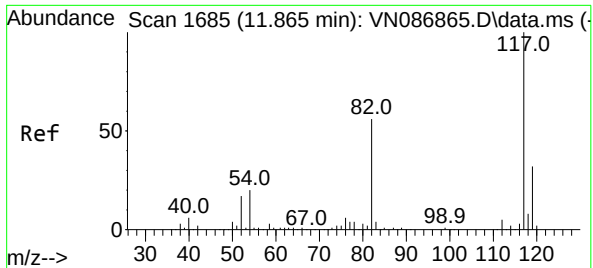
Tgt Ion: 92 Resp: 107188
Ion Ratio Lower Upper
92 100
91 169.6 136.5 204.7



#62
4-Bromofluorobenzene
Concen: 50.346 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 95 Resp: 228423
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.8
176 68.2 0.0 132.6

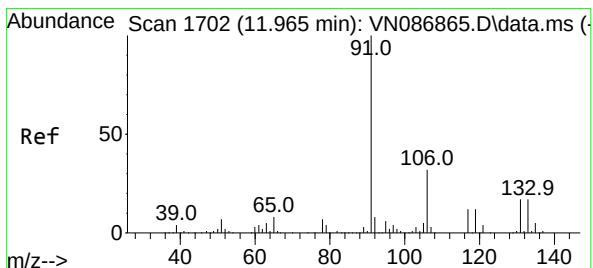
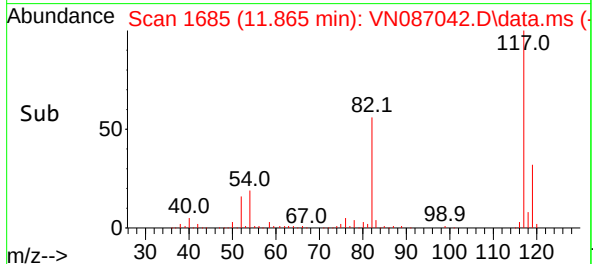
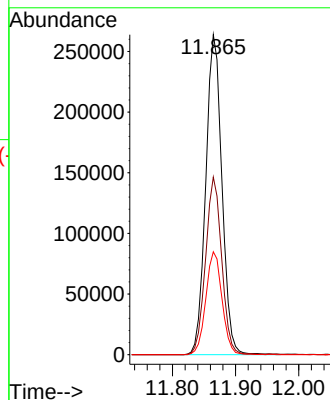
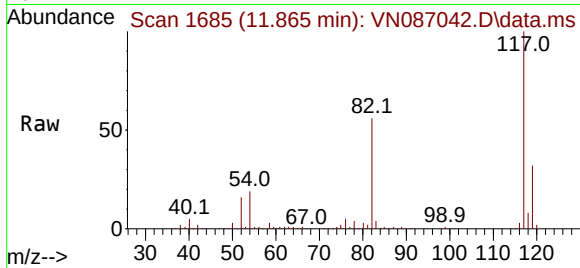




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

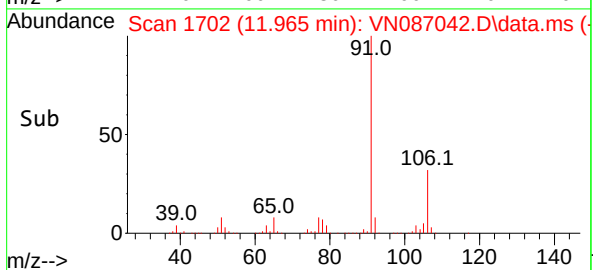
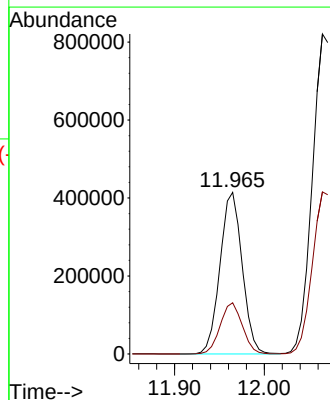
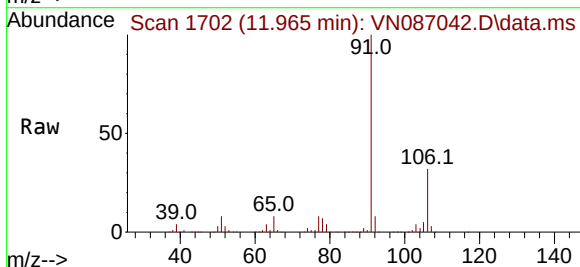
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

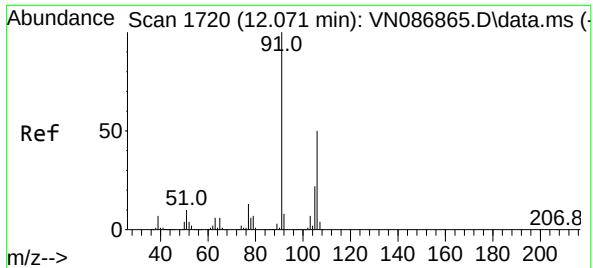
Tgt Ion:117 Resp: 469764
Ion Ratio Lower Upper
117 100
82 55.5 44.6 67.0
119 32.1 25.5 38.3



#67
Ethyl Benzene
Concen: 39.883 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 91 Resp: 711759
Ion Ratio Lower Upper
91 100
106 31.7 25.4 38.2

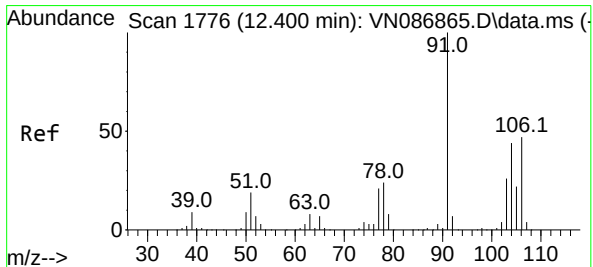
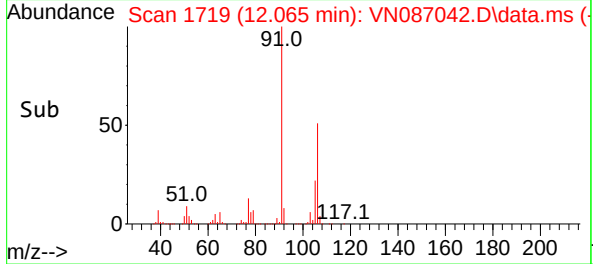
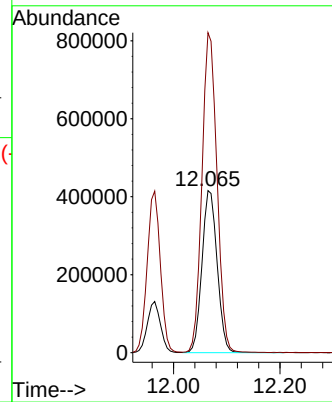
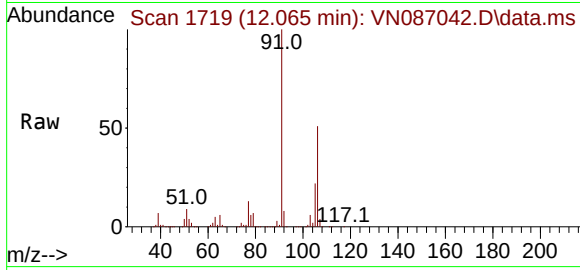




#68
m/p-Xylenes
Concen: 120.046 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

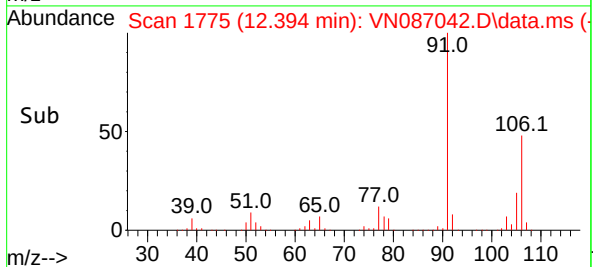
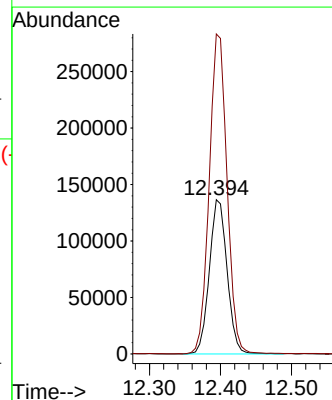
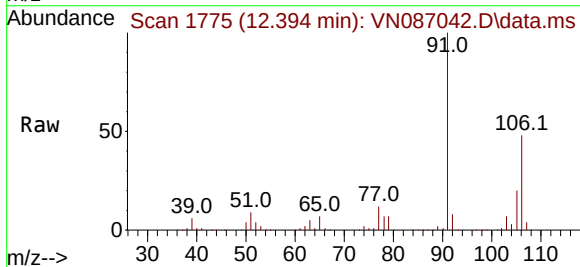
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

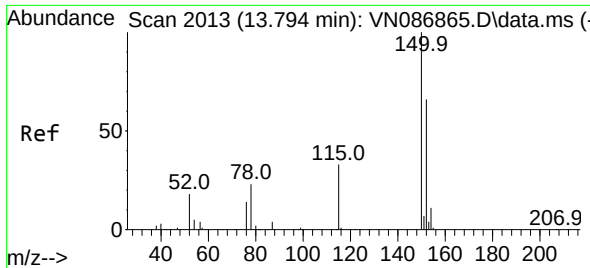
Tgt Ion:106 Resp: 820104
Ion Ratio Lower Upper
106 100
91 195.6 159.4 239.0



#69
o-Xylene
Concen: 36.306 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion:106 Resp: 237544
Ion Ratio Lower Upper
106 100
91 207.9 106.1 318.1

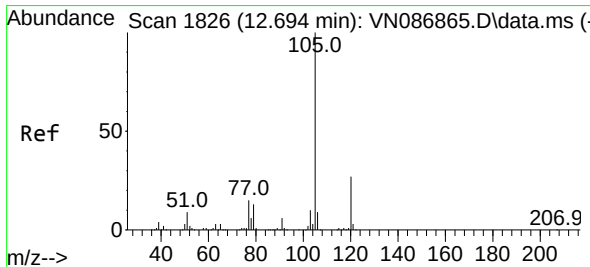
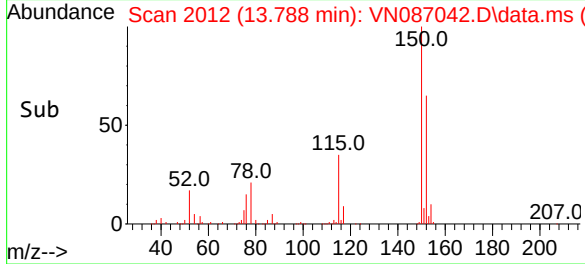
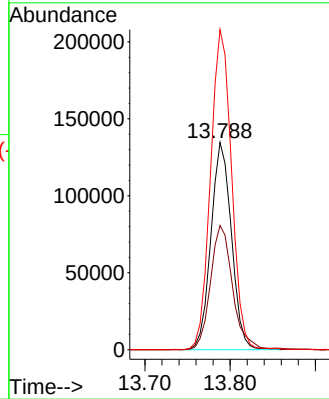
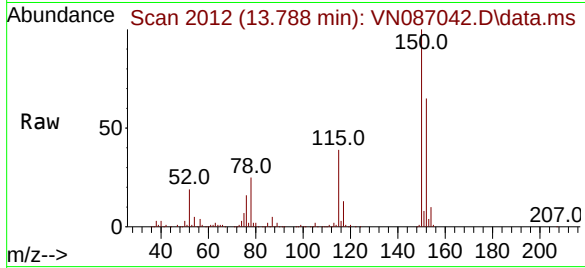




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

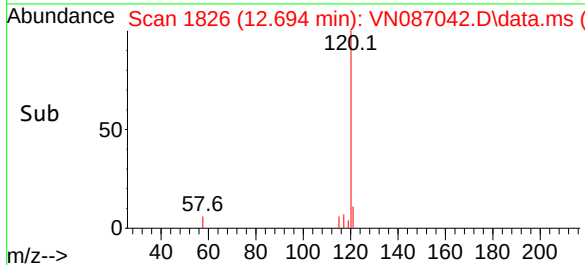
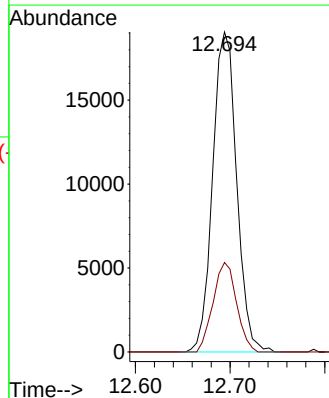
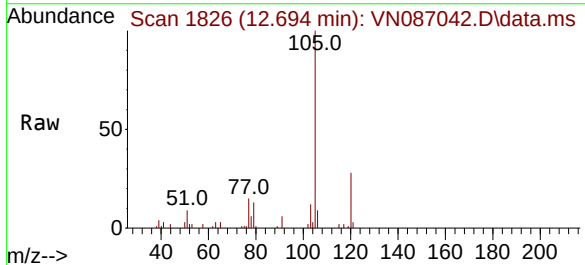
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

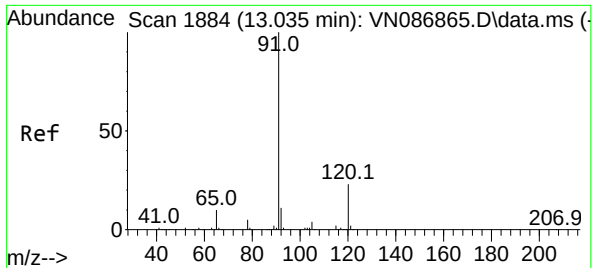
Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.3	30.1	90.5
150	158.5	0.0	345.0



#73
Isopropylbenzene
Concen: 2.048 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.5	40.4

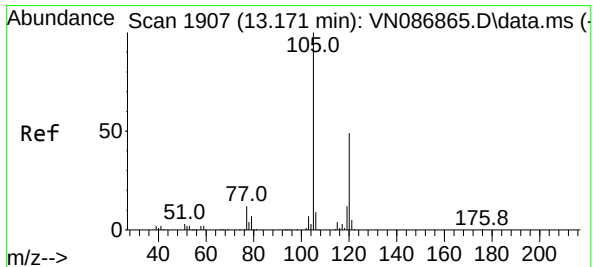
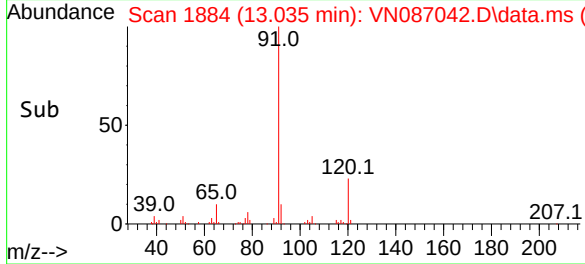
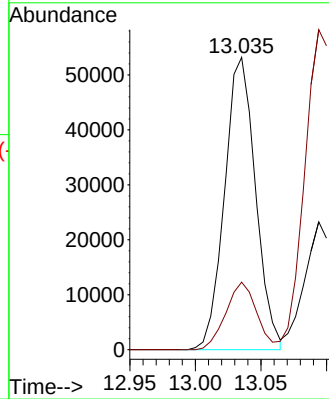
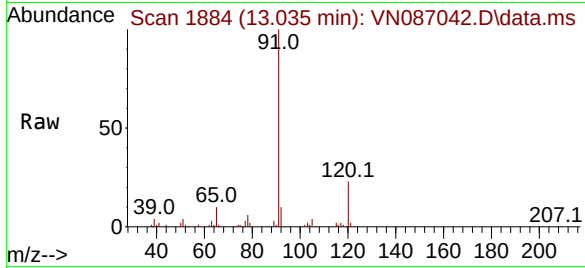




#78
n-propylbenzene
Concen: 4.383 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

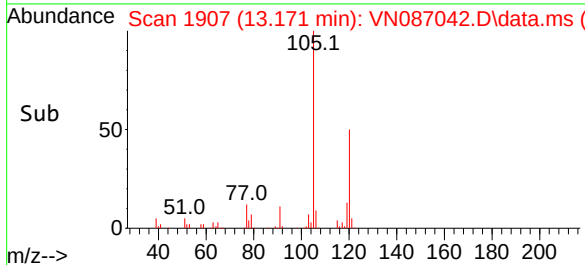
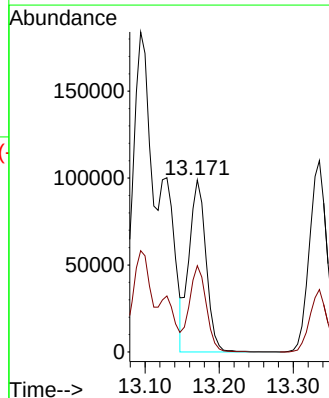
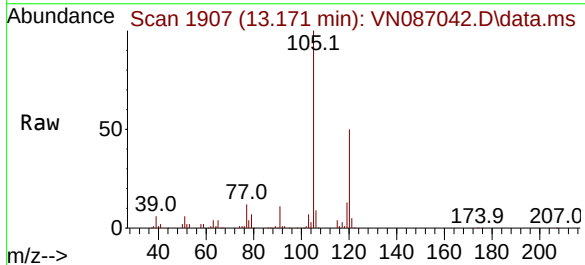
Instrument :
MSVOA_N
ClientSampleId :
MW-3-20250605DL

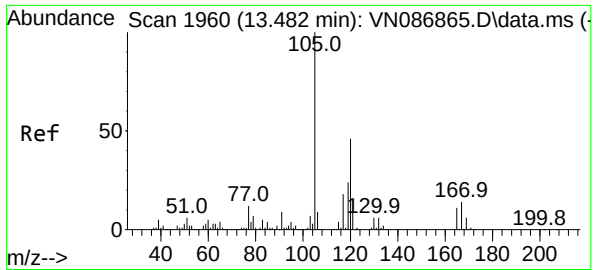
Tgt Ion: 91 Resp: 87269
Ion Ratio Lower Upper
91 100
120 22.9 11.4 34.2



#80
1,3,5-Trimethylbenzene
Concen: 11.688 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087042.D
Acq: 16 Jun 2025 19:07

Tgt Ion: 105 Resp: 158097
Ion Ratio Lower Upper
105 100
120 50.0 24.9 74.6





#84

1,2,4-Trimethylbenzene

Concen: 61.884 ug/l

RT: 13.482 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN087042.D

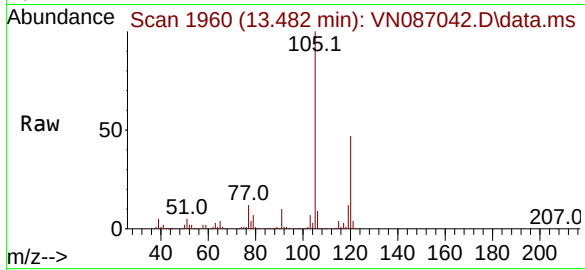
Acq: 16 Jun 2025 19:07

Instrument :

MSVOA_N

ClientSampleId :

MW-3-20250605DL

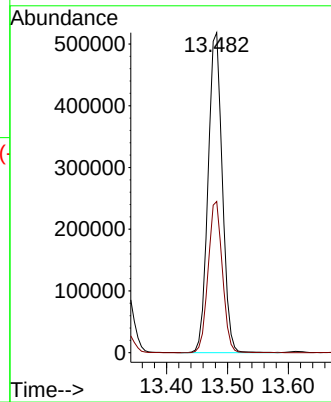
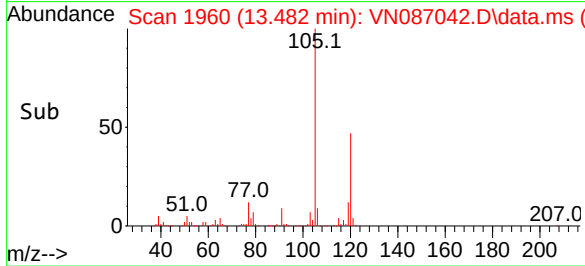


Tgt Ion:105 Resp: 839398

Ion Ratio Lower Upper

105 100

120 47.5 23.2 69.6



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	TB-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-09	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086984.D	1		06/12/25 17:48	VN061225

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	UQ	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	UQ	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:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	TB-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-09	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086984.D	1		06/12/25 17:48	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	UQ	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	UQ	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	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	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	UQ	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	UQ	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	UQ	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	52.6		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	52.3		86 - 113	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	283000	8.235			
540-36-3	1,4-Difluorobenzene	553000	9.106			
3114-55-4	Chlorobenzene-d5	495000	11.87			
3855-82-1	1,4-Dichlorobenzene-d4	234000	13.794			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	TB-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-09		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086984.D	1		06/12/25 17:48	VN061225

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\VN061225\
 Data File : VN086984.D
 Acq On : 12 Jun 2025 17:48
 Operator : JC\MD
 Sample : Q2268-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20250605

Quant Time: Jun 13 01:31:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	283433	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	552519	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	494879	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	234248	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	199435	52.554	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.100%
35) Dibromofluoromethane	8.177	113	166879	50.965	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.940%
50) Toluene-d8	10.571	98	678117	52.314	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.620%
62) 4-Bromofluorobenzene	12.847	95	244170	50.701	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.400%

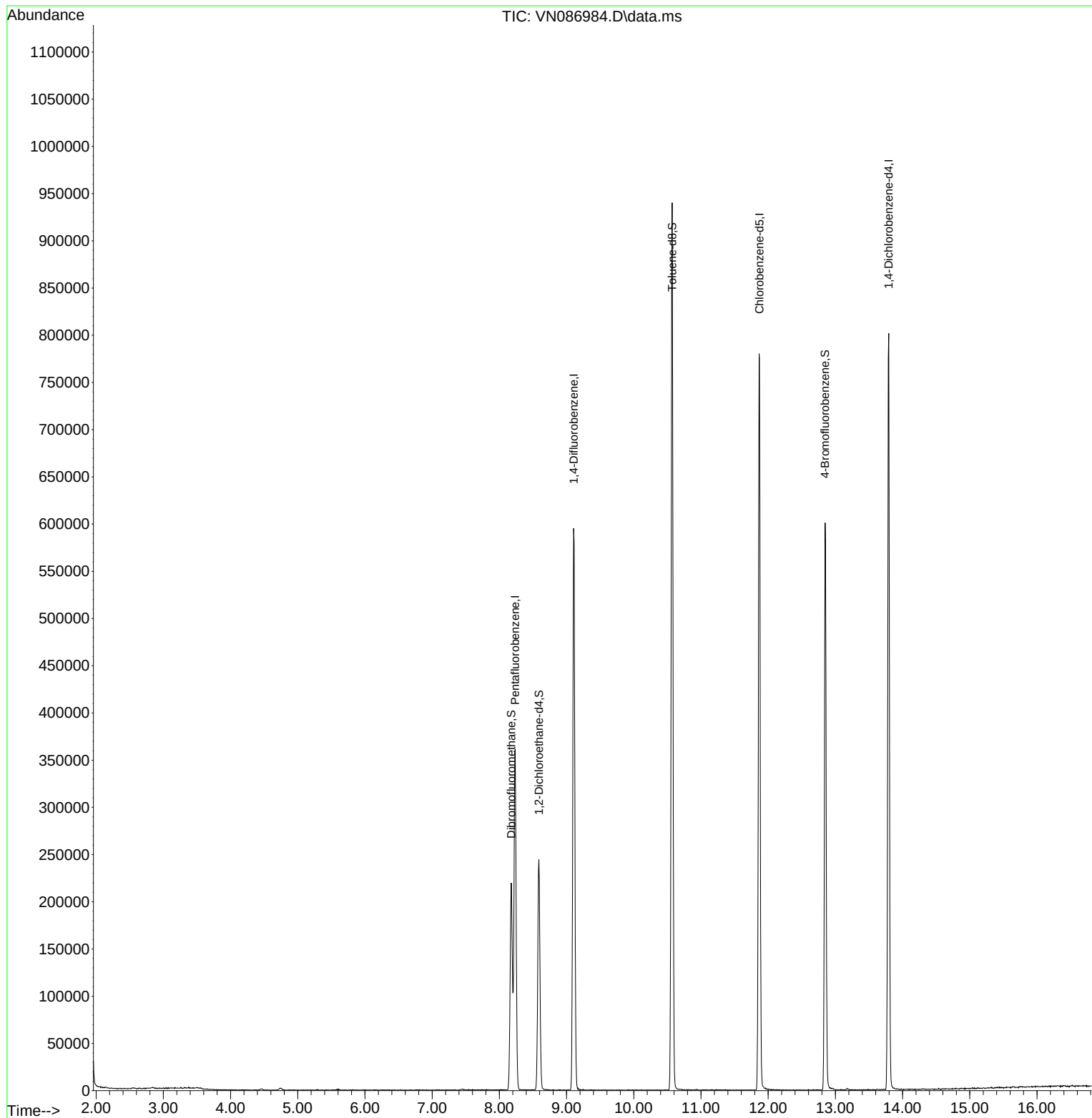
Target Compounds	Qvalue

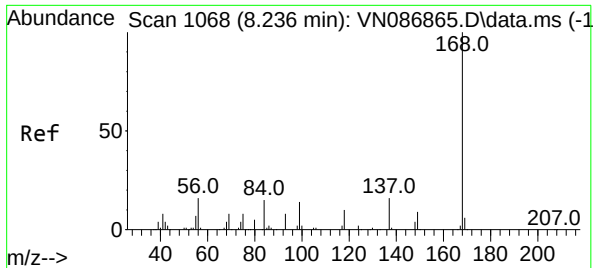
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086984.D
Acq On : 12 Jun 2025 17:48
Operator : JC\MD
Sample : Q2268-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

Quant Time: Jun 13 01:31:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

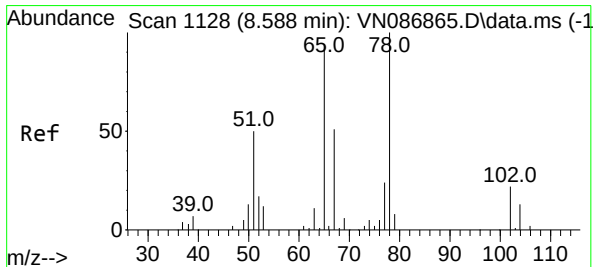
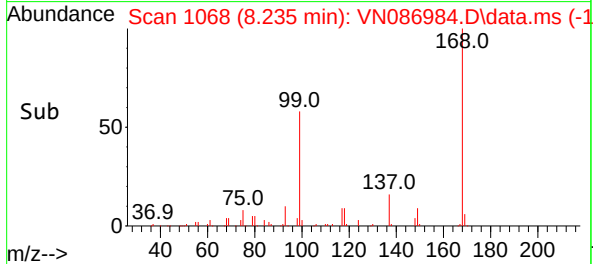
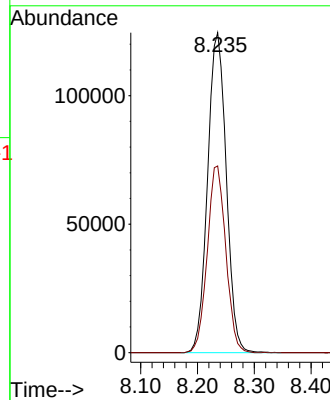
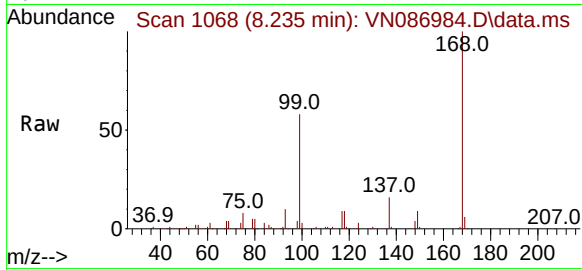




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086984.D
Acq: 12 Jun 2025 17:48

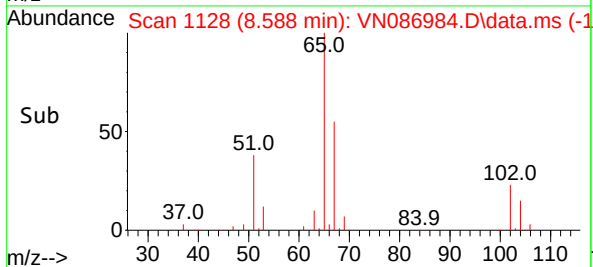
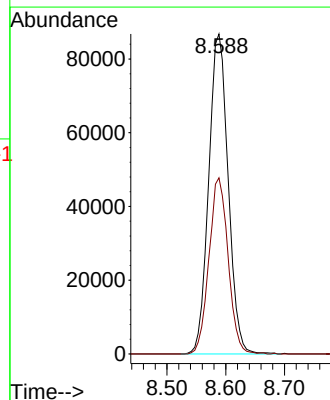
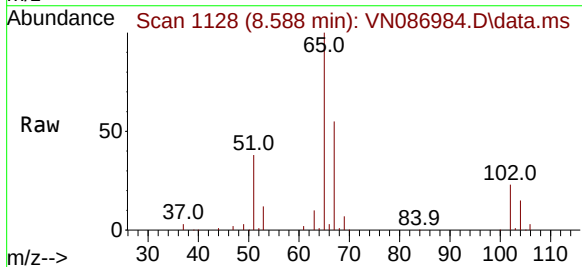
Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

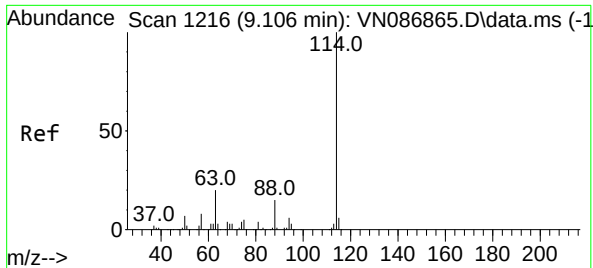
Tgt Ion:168 Resp: 283433
Ion Ratio Lower Upper
168 100
99 58.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 52.554 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086984.D
Acq: 12 Jun 2025 17:48

Tgt Ion: 65 Resp: 199435
Ion Ratio Lower Upper
65 100
67 54.2 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086984.D

Acq: 12 Jun 2025 17:48

Instrument :

MSVOA_N

ClientSampleId :

TB-20250605

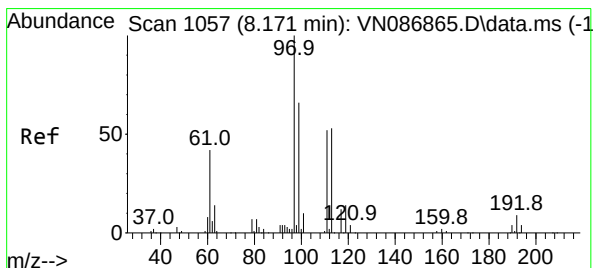
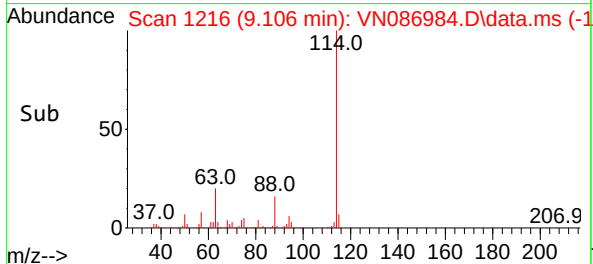
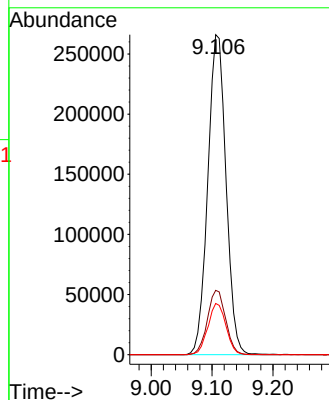
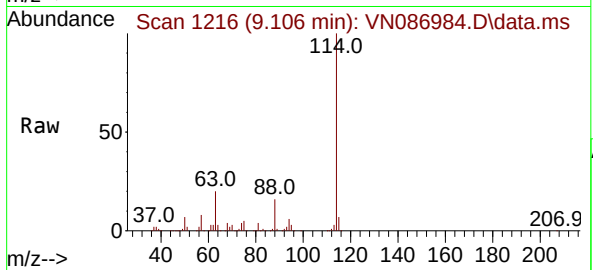
Tgt Ion:114 Resp: 552519

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 16.0 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.965 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086984.D

Acq: 12 Jun 2025 17:48

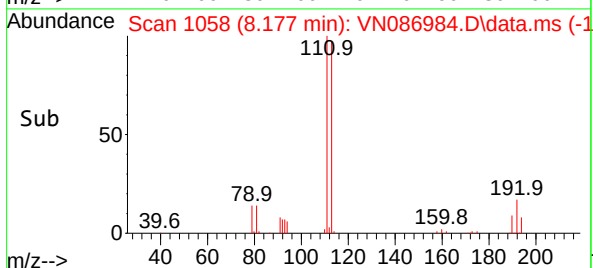
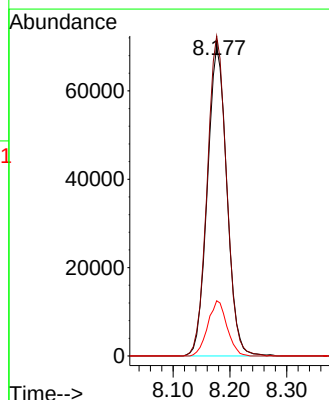
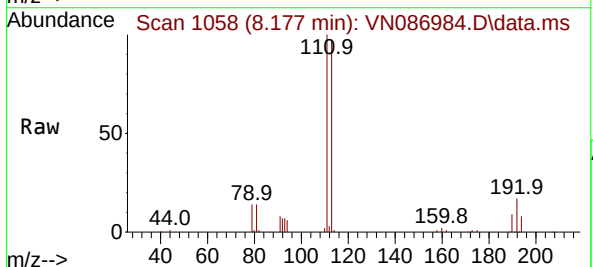
Tgt Ion:113 Resp: 166879

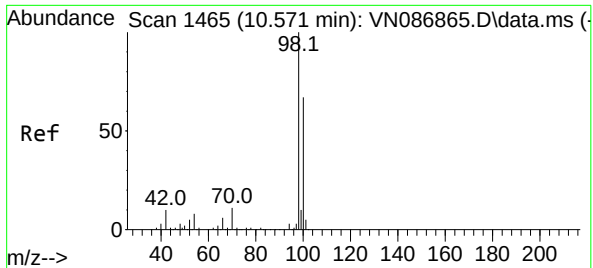
Ion Ratio Lower Upper

113 100

111 102.8 84.2 126.2

192 17.5 14.2 21.4

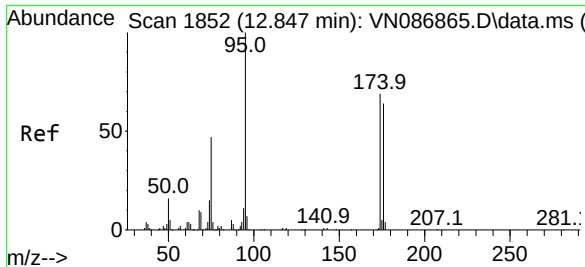
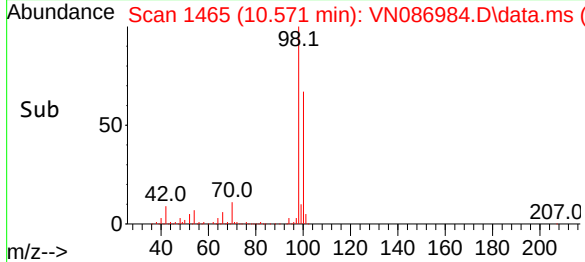
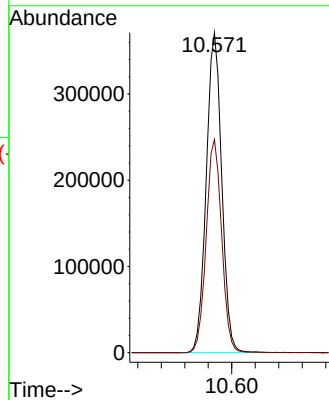
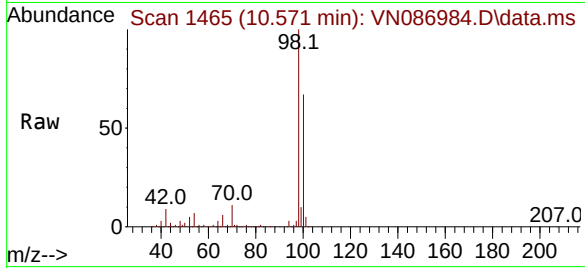




#50
Toluene-d8
Concen: 52.314 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086984.D
Acq: 12 Jun 2025 17:48

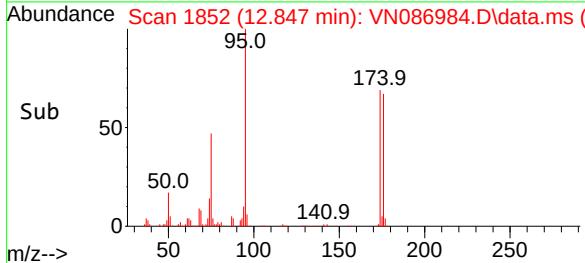
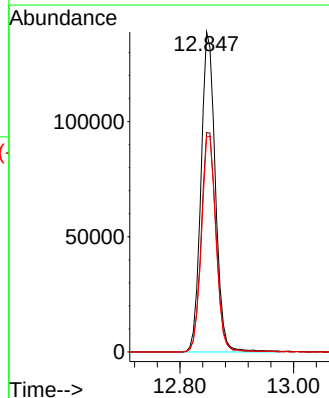
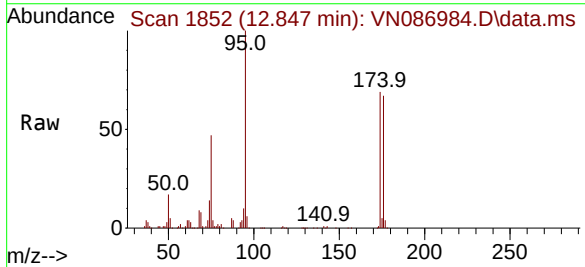
Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

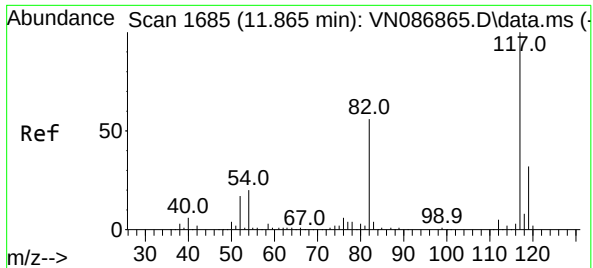
Tgt Ion: 98 Resp: 678117
Ion Ratio Lower Upper
98 100
100 66.6 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 50.701 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086984.D
Acq: 12 Jun 2025 17:48

Tgt Ion: 95 Resp: 244170
Ion Ratio Lower Upper
95 100
174 70.4 0.0 141.8
176 68.0 0.0 132.6

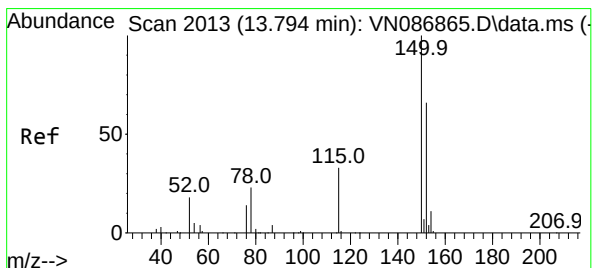
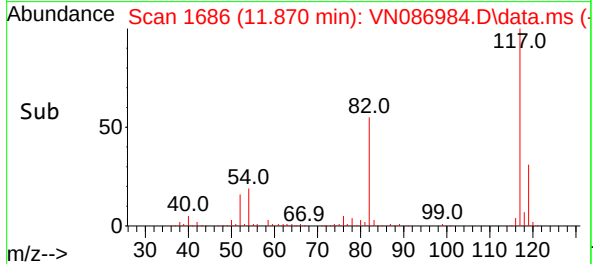
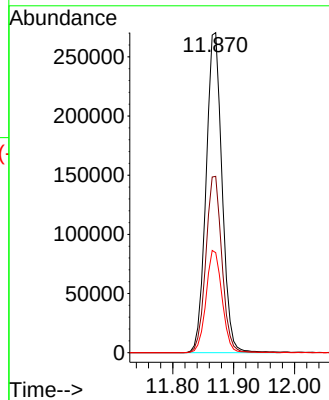
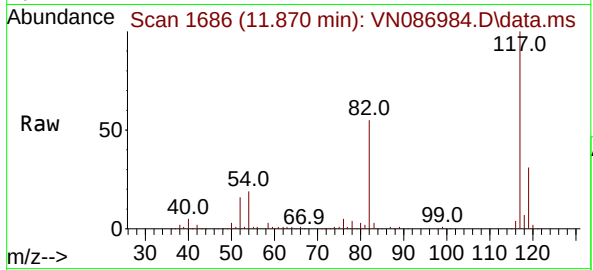




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN086984.D
Acq: 12 Jun 2025 17:48

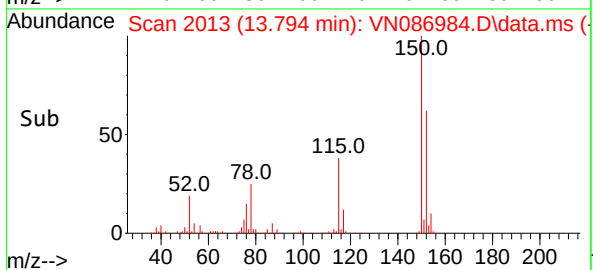
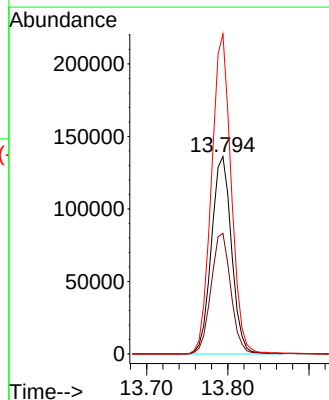
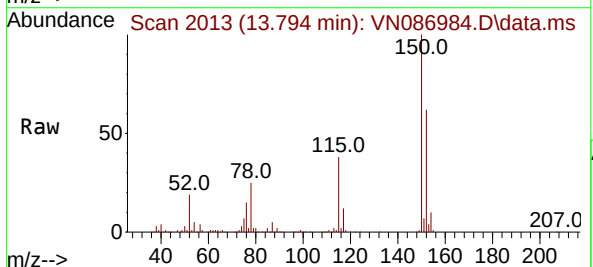
Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

Tgt Ion:117 Resp: 494879
Ion Ratio Lower Upper
117 100
82 55.1 44.6 67.0
119 31.2 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086984.D
Acq: 12 Jun 2025 17:48

Tgt Ion:152 Resp: 234248
Ion Ratio Lower Upper
152 100
115 60.5 30.1 90.5
150 159.2 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086984.D
Acq On : 12 Jun 2025 17:48
Operator : JC\MD
Sample : Q2268-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086984.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	219353	501586	29.10%	5.770%
2	8.235	1062	1068	1079	rVB	360648	829892	48.14%	9.546%
3	8.588	1118	1128	1142	rBV	243956	550683	31.95%	6.334%
4	9.106	1206	1216	1226	rBV	595043	1230779	71.40%	14.157%
5	10.571	1456	1465	1480	rBV	939824	1723789	100.00%	19.828%
6	11.865	1676	1685	1701	rBV	779902	1431453	83.04%	16.465%
7	12.847	1843	1852	1868	rBV	600700	1051517	61.00%	12.095%
8	13.794	2005	2013	2024	rBV	800936	1374028	79.71%	15.805%

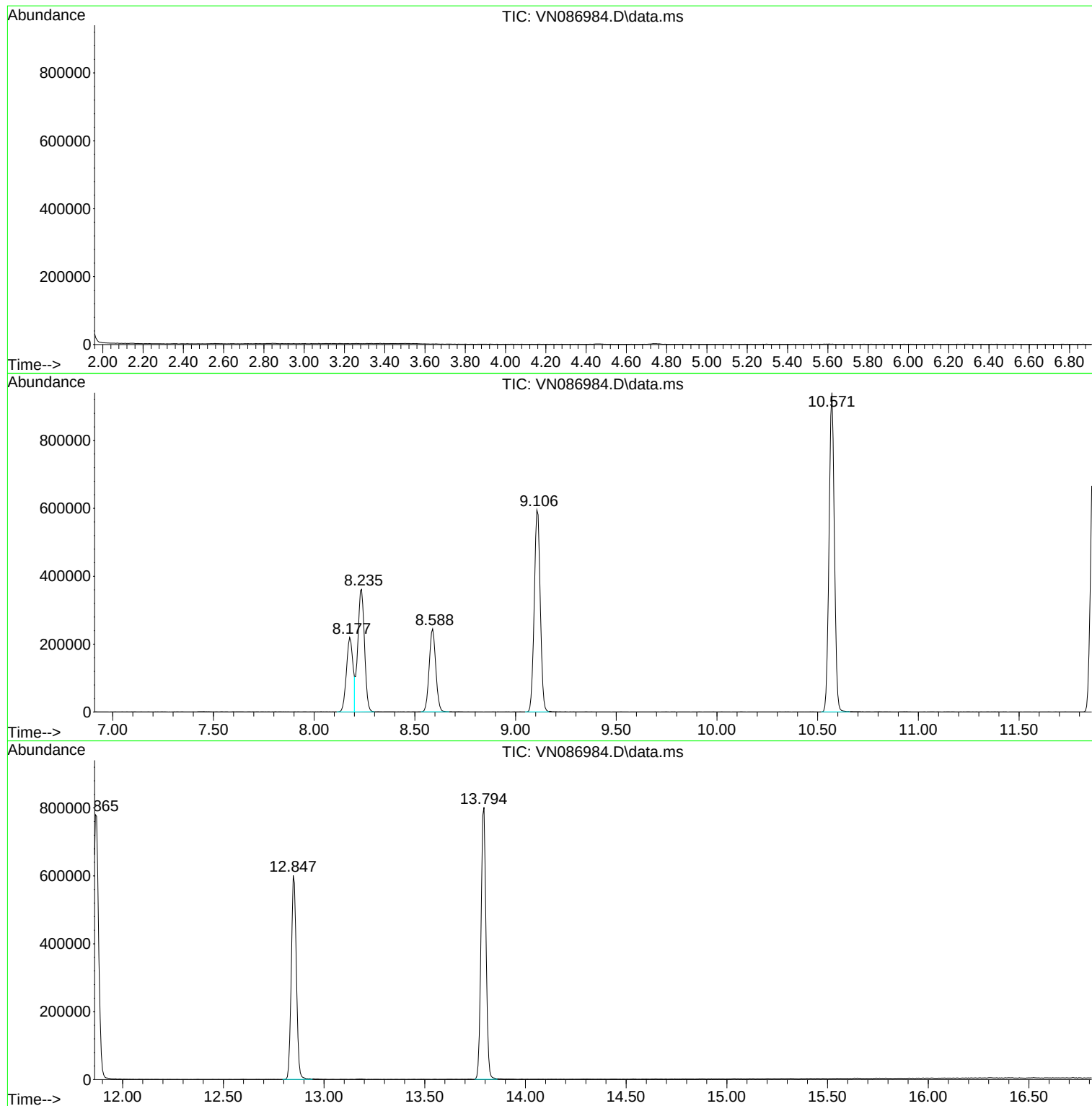
Sum of corrected areas: 8693727

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086984.D
Acq On : 12 Jun 2025 17:48
Operator : JC\MD
Sample : Q2268-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086984.D
Acq On : 12 Jun 2025 17:48
Operator : JC\MD
Sample : Q2268-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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\VN061225\
Data File : VN086984.D
Acq On : 12 Jun 2025 17:48
Operator : JC\MD
Sample : Q2268-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	FB-20250605			SDG No.:	Q2268
Lab Sample ID:	Q2268-10			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086985.D	1		06/12/25 18:10	VN061225

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	UQ	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	UQ	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:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	FB-20250605	SDG No.:	Q2268
Lab Sample ID:	Q2268-10	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086985.D	1		06/12/25 18:10	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	UQ	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	UQ	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	UQ	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	UQ	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	UQ	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	UQ	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	UQ	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	52.9		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	51.9		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	275000	8.235			
540-36-3	1,4-Difluorobenzene	543000	9.106			
3114-55-4	Chlorobenzene-d5	483000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	229000	13.794			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	FB-20250605		SDG No.:	Q2268	
Lab Sample ID:	Q2268-10		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086985.D	1		06/12/25 18:10	VN061225

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\VN061225\
 Data File : VN086985.D
 Acq On : 12 Jun 2025 18:10
 Operator : JC\MD
 Sample : Q2268-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-20250605

Quant Time: Jun 13 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	274527	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	543078	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	482706	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	228705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	194567	52.935	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.860%	
35) Dibromofluoromethane	8.177	113	161926	50.312	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.620%	
50) Toluene-d8	10.571	98	660756	51.861	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.720%	
62) 4-Bromofluorobenzene	12.853	95	233413	49.310	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.620%	

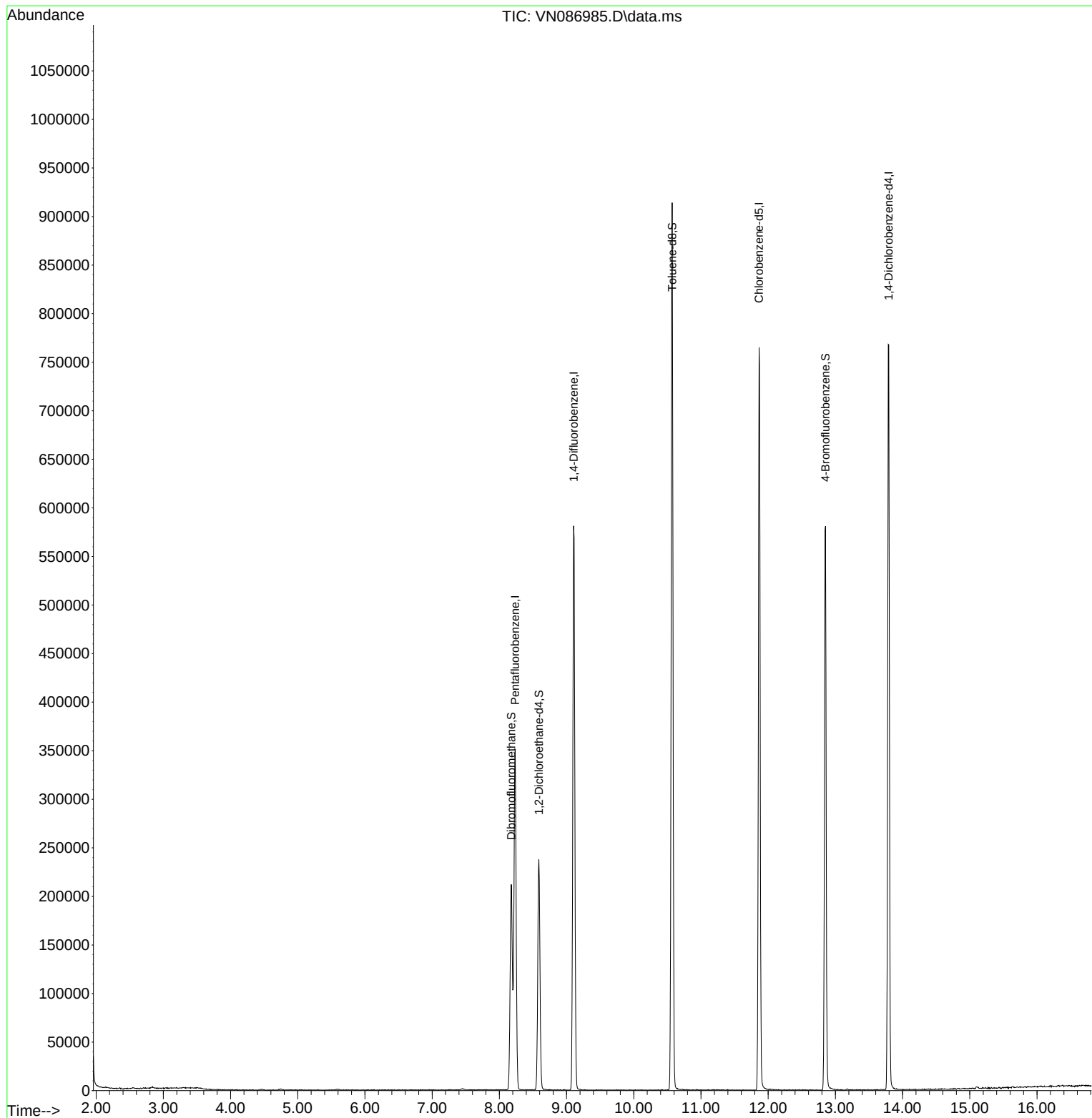
Target Compounds	Qvalue

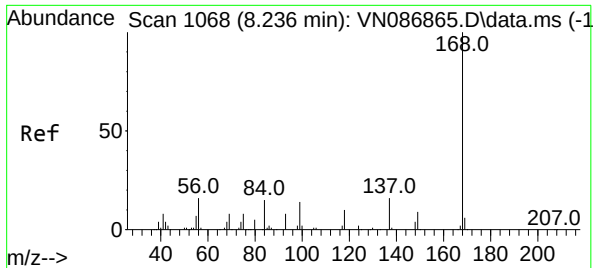
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086985.D
Acq On : 12 Jun 2025 18:10
Operator : JC\MD
Sample : Q2268-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

Quant Time: Jun 13 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

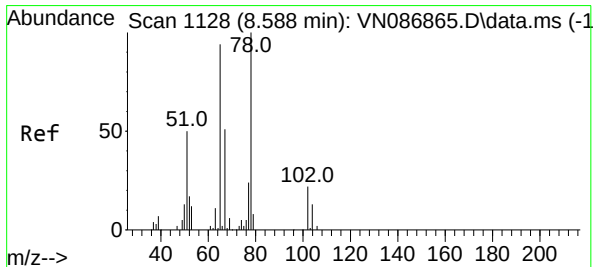
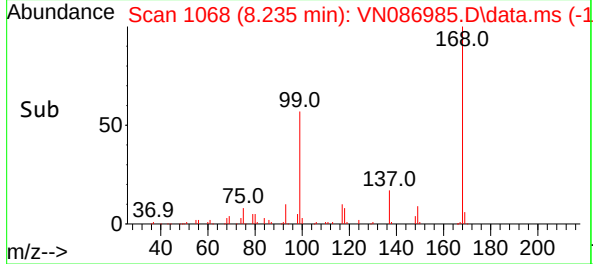
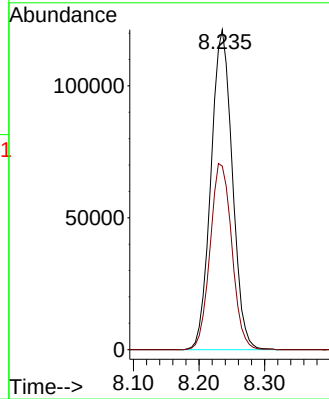
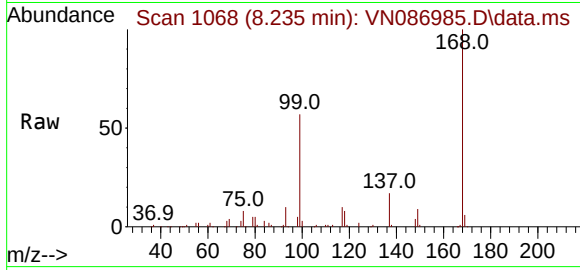




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

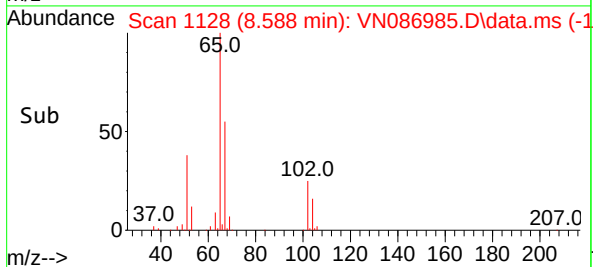
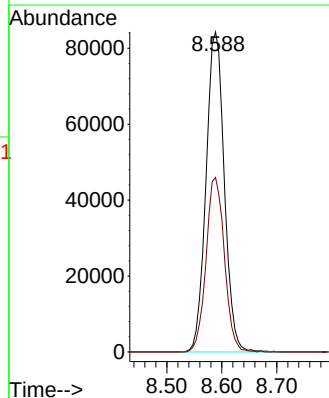
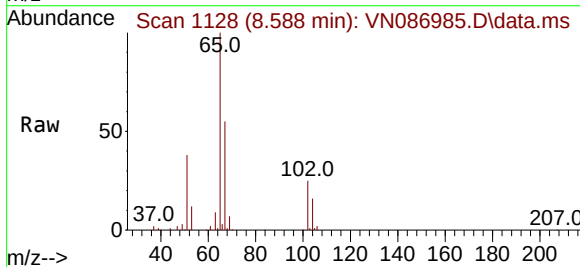
Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

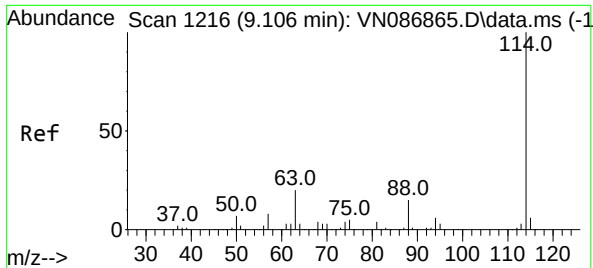
Tgt Ion:168 Resp: 274527
Ion Ratio Lower Upper
168 100
99 57.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 52.935 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

Tgt Ion: 65 Resp: 194567
Ion Ratio Lower Upper
65 100
67 54.7 0.0 105.6

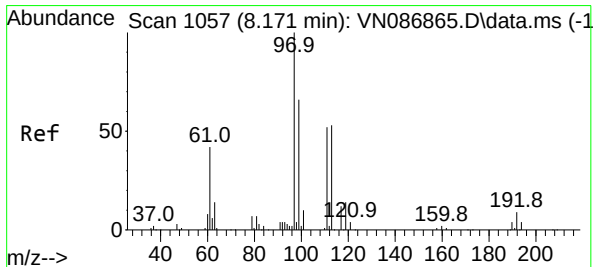
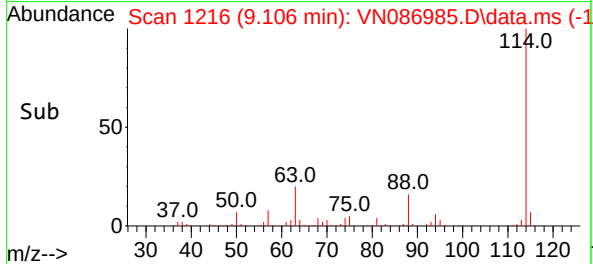
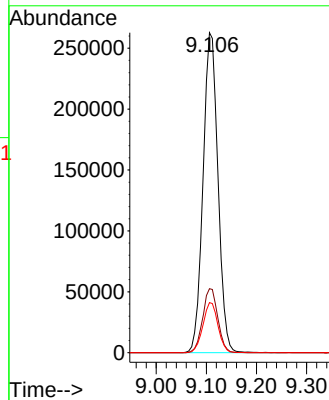
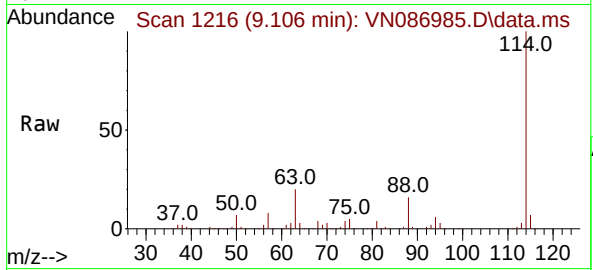




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

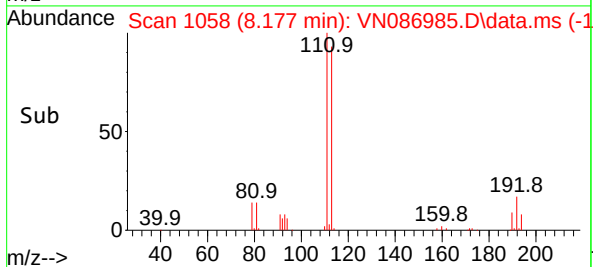
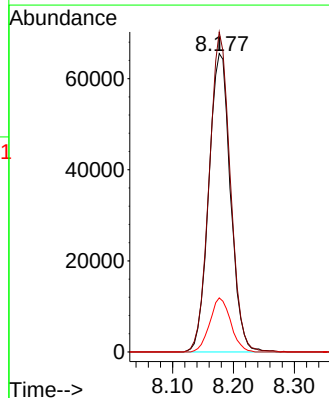
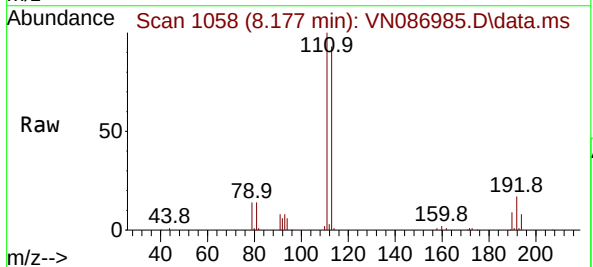
Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

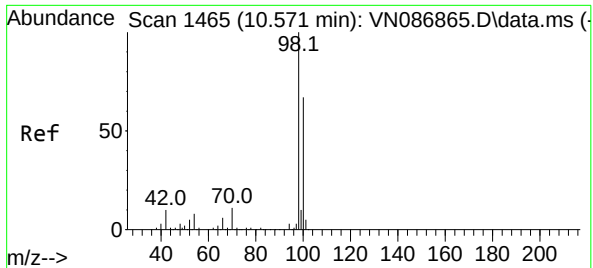
Tgt Ion:114 Resp: 543078
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.6
88 15.6 0.0 30.2



#35
Dibromofluoromethane
Concen: 50.312 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

Tgt Ion:113 Resp: 161926
Ion Ratio Lower Upper
113 100
111 104.4 84.2 126.2
192 17.5 14.2 21.4

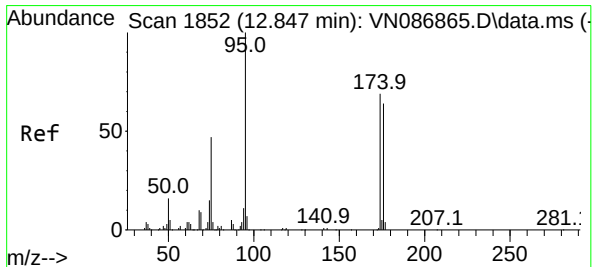
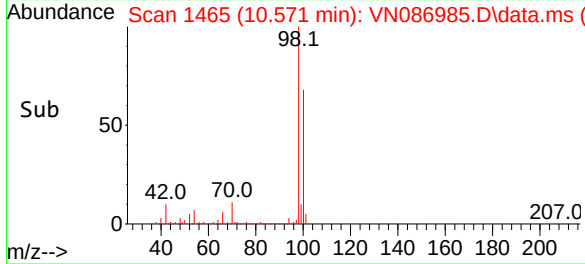
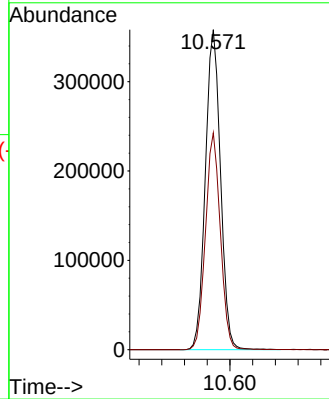
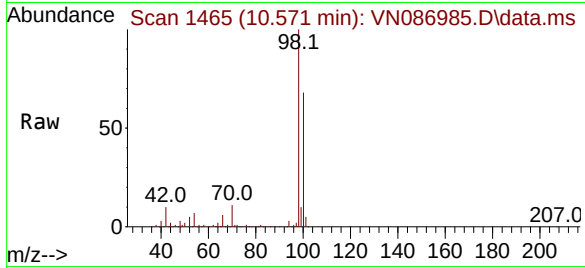




#50
Toluene-d8
Concen: 51.861 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

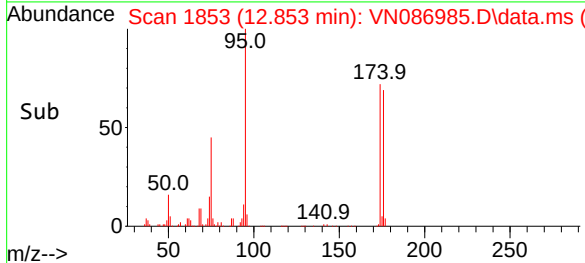
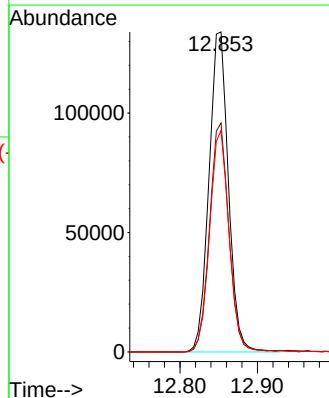
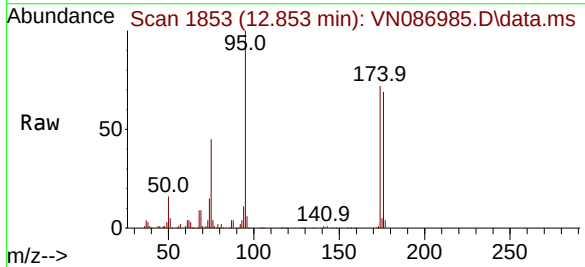
Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

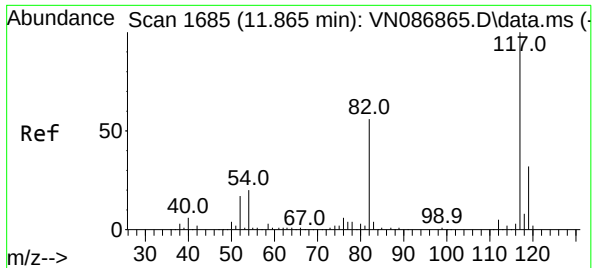
Tgt Ion: 98 Resp: 660756
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.310 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

Tgt Ion: 95 Resp: 233413
Ion Ratio Lower Upper
95 100
174 71.6 0.0 141.8
176 68.8 0.0 132.6

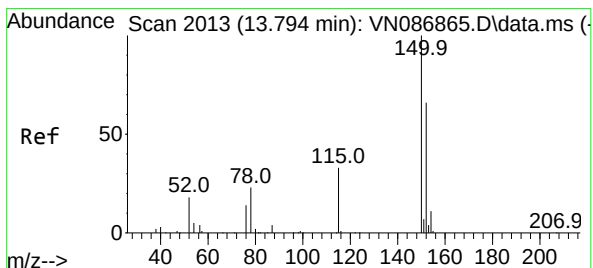
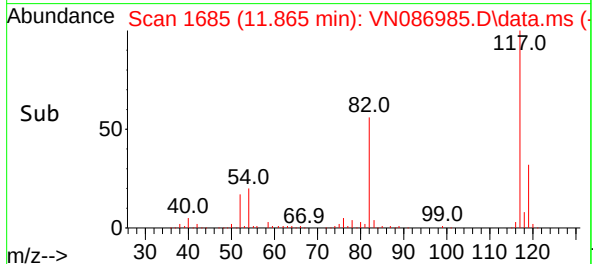
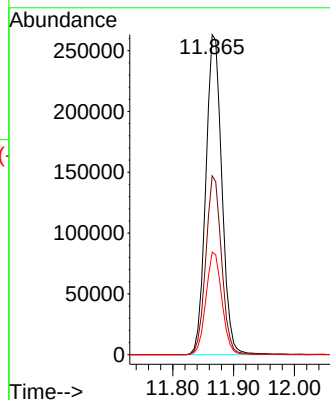
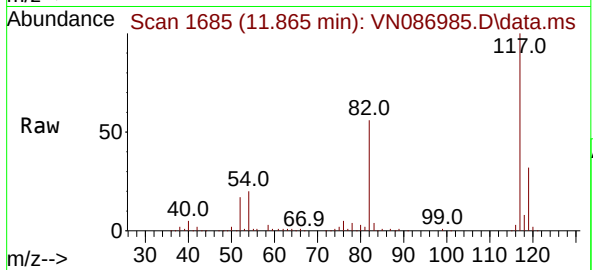




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

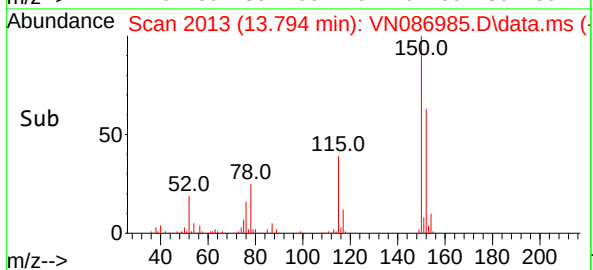
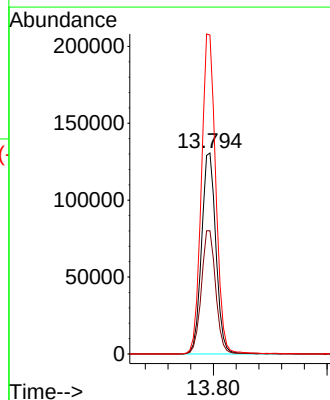
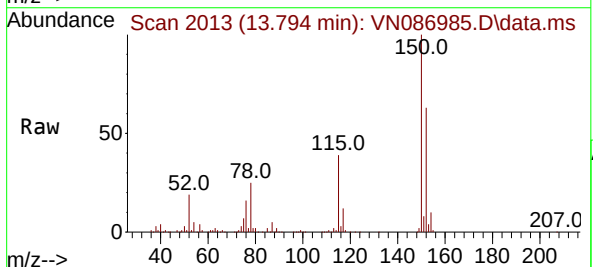
Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

Tgt Ion:117 Resp: 482706
Ion Ratio Lower Upper
117 100
82 55.9 44.6 67.0
119 32.0 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086985.D
Acq: 12 Jun 2025 18:10

Tgt Ion:152 Resp: 228705
Ion Ratio Lower Upper
152 100
115 61.3 30.1 90.5
150 159.6 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086985.D
Acq On : 12 Jun 2025 18:10
Operator : JC\MD
Sample : Q2268-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086985.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1046	1058	1062	rBV	211579	490939	29.19%	5.780%
2	8.235	1062	1068	1084	rVB	350808	817271	48.59%	9.622%
3	8.588	1116	1128	1140	rBV	237091	539058	32.05%	6.346%
4	9.106	1205	1216	1231	rBV	580873	1202936	71.53%	14.162%
5	10.571	1456	1465	1477	rBV	913780	1681832	100.00%	19.801%
6	11.865	1677	1685	1705	rBV	764324	1394304	82.90%	16.415%
7	12.853	1844	1853	1865	rBV	580473	1020661	60.69%	12.016%
8	13.788	2004	2012	2027	rBV	767375	1346852	80.08%	15.857%

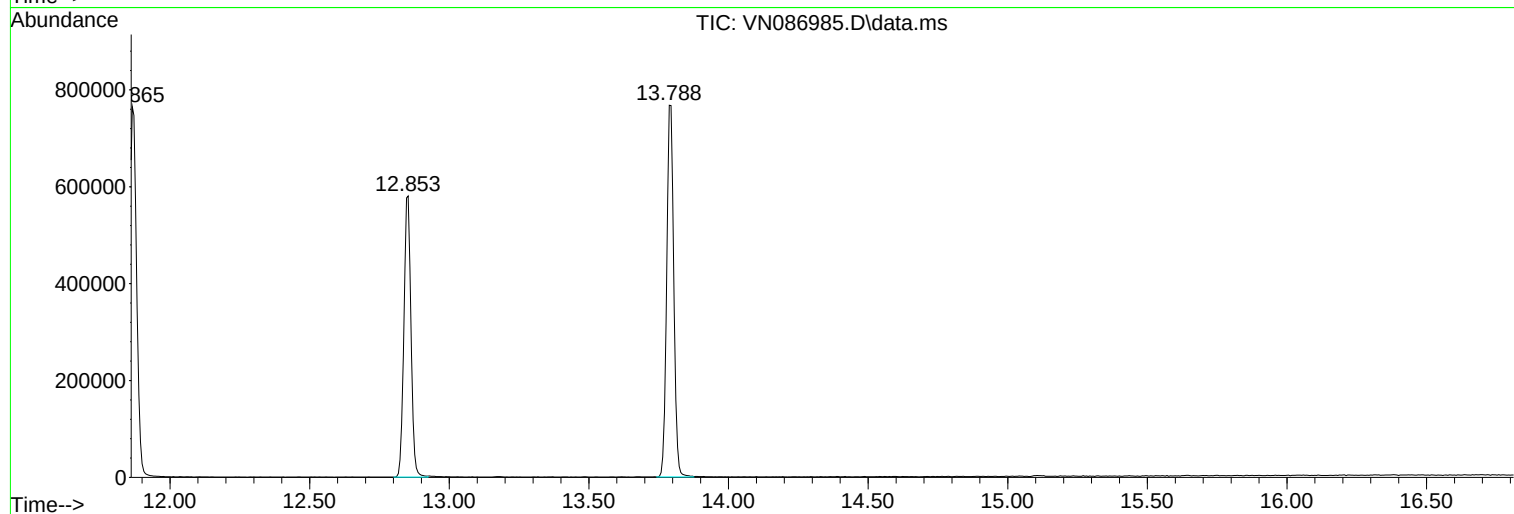
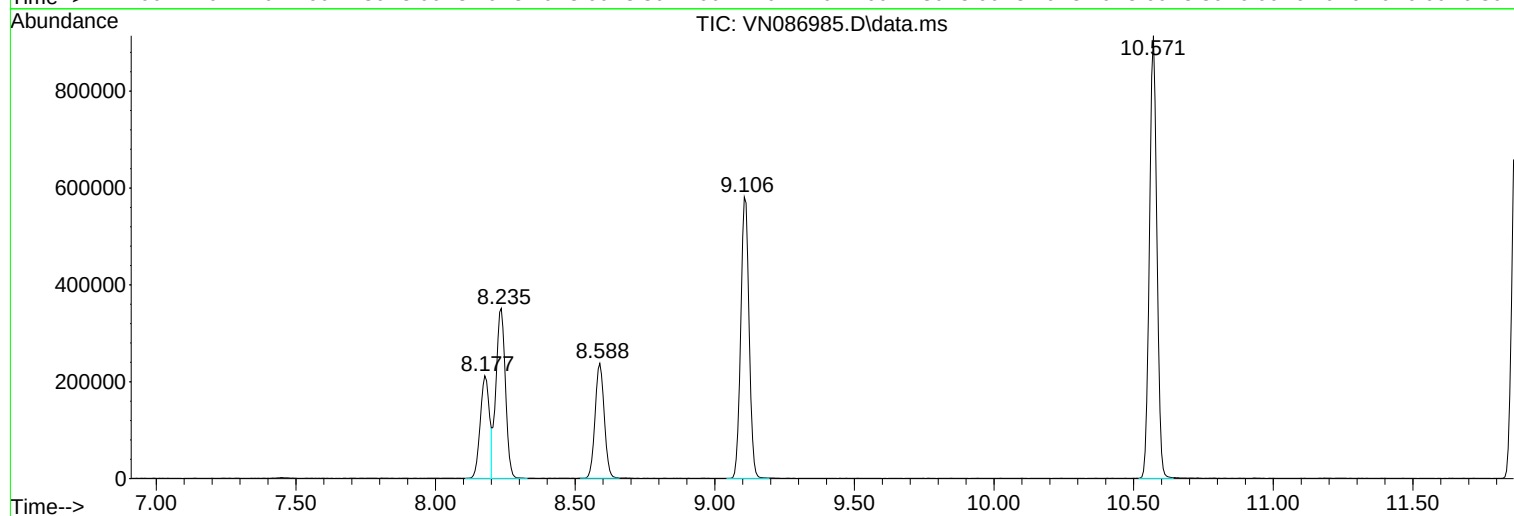
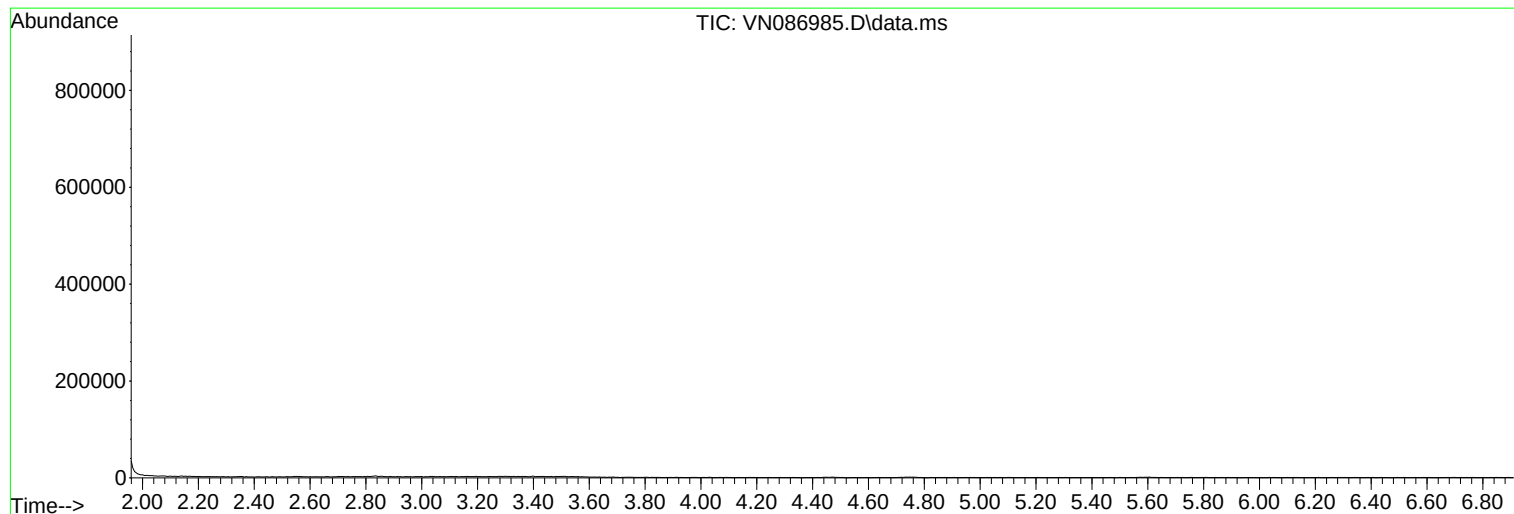
Sum of corrected areas: 8493853

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086985.D
Acq On : 12 Jun 2025 18:10
Operator : JC\MD
Sample : Q2268-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086985.D
Acq On : 12 Jun 2025 18:10
Operator : JC\MD
Sample : Q2268-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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\VN061225\
Data File : VN086985.D
Acq On : 12 Jun 2025 18:10
Operator : JC\MD
Sample : Q2268-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB-20250605

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268
 Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN086862.D			RRF005 = VN086863.D		RRF020 = VN086864.D		
	RRF050 = VN086865.D			RRF100 = VN086866.D		RRF150 = VN086867.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.5
Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.9
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5
Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.6
Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.4
Trichlorofluoromethane	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.9
1,1,2-Trichlorotrifluoroethane	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.8
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4
Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.5
Carbon Disulfide	1.718	1.622	1.542	1.426	1.496	1.433	1.539	7.4
Methyl tert-butyl Ether	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.7
Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.1
Methylene Chloride	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.5
trans-1,2-Dichloroethene	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.3
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2
Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.2
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9
Bromochloromethane	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.5
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9
Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.8
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2
1,2-Dichloropropane	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.4
Bromodichloromethane	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.8
4-Methyl-2-Pentanone	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.6
Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.6

* 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: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268
 Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN086862.D		RRF005 = VN086863.D		RRF020 = VN086864.D		
		RRF050 = VN086865.D		RRF100 = VN086866.D		RRF150 = VN086867.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.6
cis-1,3-Dichloropropene	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.6
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7
2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.4
Dibromochloromethane	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.5
1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.2
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7
Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.900	4.2
m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.8
o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.4
Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.5
Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.1
Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.2
1,1,2,2-Tetrachloroethane	1.292	1.299	1.273	1.178	1.205	1.157	1.234	5
1,3-Dichlorobenzene	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5
1,4-Dichlorobenzene	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.3
1,2-Dichlorobenzene	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.8
1,2-Dibromo-3-Chloropropane	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.3
1,2,4-Trichlorobenzene	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.8
1,2,3-Trichlorobenzene	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N060625W.M
 Title : SW846 8260
 Last Update : Sat Jun 07 02:12:50 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN086862.D 5 =VN086863.D 20 =VN086864.D 50 =VN086865.D 100 =VN086866.D 150 =VN086867.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.51
3) P	Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.85
4) C	Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.49#
5) T	Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.57
6) T	Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.37
7) T	Trichlorofluor...	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.93
8) T	Diethyl Ether	0.372	0.397	0.383	0.363	0.384	0.369	0.378	3.28
9) T	1,1,2-Trichlor...	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.83
10) T	Methyl Iodide		0.720	0.729	0.683	0.722	0.679	0.707	3.35
11) T	Tert butyl alc...		0.192	0.194	0.176	0.180	0.166	0.182	6.37
12) CM	1,1-Dichloroet...	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.44#
13) T	Acrolein		0.073	0.051	0.045	0.052	0.066	0.057	20.26
14) T	Allyl chloride	0.985	0.911	0.925	0.865	0.905	0.947	0.923	4.40
15) T	Acrylonitrile	0.434	0.434	0.445	0.407	0.423	0.404	0.425	3.82
16) T	Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.53
17) T	Carbon Disulfide	1.718	1.621	1.542	1.426	1.496	1.433	1.539	7.38
18) T	Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.10
19) T	Methyl tert-bu...	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.69
20) T	Methylene Chlo...	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.52
21) T	trans-1,2-Dich...	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.25
22) T	Diisopropyl ether	2.018	2.020	2.036	1.856	1.915	1.828	1.945	4.70
23) T	Vinyl Acetate	1.743	1.692	1.715	1.591	1.604	1.517	1.644	5.29
24) P	1,1-Dichloroet...	1.192	1.152	1.156	1.063	1.110	1.043	1.120	5.17
25) T	2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.18
26) T	2,2-Dichloropr...	0.967	0.796	0.778	0.905	0.912	0.868	0.871	8.32
27) T	cis-1,2-Dichlo...	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.93
28) T	Bromochloromet...	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.48
29) T	Tetrahydrofuran	0.390	0.390	0.399	0.358	0.372	0.346	0.376	5.46
30) C	Chloroform	1.235	1.151	1.145	1.061	1.085	1.030	1.118	6.66#
31) T	Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.21
32) T	1,1,1-Trichlor...	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.88
33) S	1,2-Dichloroet...		0.732	0.707	0.500	0.656	0.751	0.669	15.08
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.303	0.310	0.219	0.298	0.351	0.296	16.15
36) T	1,1-Dichloropr...	0.467	0.458	0.438	0.418	0.442	0.426	0.442	4.23
37) T	Ethyl Acetate	0.544	0.615	0.577	0.536	0.565	0.535	0.562	5.48
38) T	Carbon Tetrach...	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.88
39) T	Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.75
40) TM	Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.20
41) T	Methacrylonitrile	0.356	0.319	0.318	0.303	0.299	0.299	0.316	6.84
42) TM	1,2-Dichloroet...	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.60
43) T	Isopropyl Acetate	0.975	0.950	0.906	0.852	0.884	0.845	0.902	5.79
44) TM	Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.327	0.342	4.17
45) C	1,2-Dichloropr...	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.40#
46) T	Dibromomethane	0.233	0.242	0.241	0.221	0.237	0.226	0.233	3.54
47) T	Bromodichlorom...	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.80
48) T	Methyl methacr...	0.444	0.415	0.421	0.394	0.421	0.397	0.415	4.40
49) T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.008	0.007	0.008	9.40
50) S	Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.23
51) T	4-Methyl-2-Pen...	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.64
52) CM	Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.61#
53) T	t-1,3-Dichloro...	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.59
54) T	cis-1,3-Dichlo...	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.61
55) T	1,1,2-Trichlor...	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.66
56) T	Ethyl methacry...	0.433	0.516	0.567	0.556	0.595	0.578	0.541	10.92

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N060625W.M

57)	T	1,3-Dichloropr...	0.643	0.600	0.587	0.561	0.583	0.559	0.589	5.27
58)	T	2-Chloroethyl ...	0.278	0.305	0.334	0.274	0.340	0.405	0.323	15.07
59)	T	2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.36
60)	T	Dibromochlorom...	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.49
61)	T	1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.18
62)	S	4-Bromofluorob...	0.441	0.446	0.325	0.446	0.521	0.436		16.16
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.51
65)	PM	Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7.01
66)	T	1,1,1,2-Tetrac...	0.362	0.374	0.358	0.338	0.356	0.338	0.354	3.99
67)	C	Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.899	4.19#
68)	T	m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.82
69)	T	o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.42
70)	T	Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.51
71)	P	Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.09
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.21
74)	T	N-amyl acetate	1.376	1.110	1.187	1.266	1.372	1.327	1.273	8.42
75)	P	1,1,2,2-Tetrac...	1.292	1.299	1.273	1.178	1.205	1.157	1.234	4.99
76)	T	1,2,3-Trichlor...	1.297	1.189	1.129	1.173	1.201	1.142	1.189	5.03
77)	T	Bromobenzene	0.870	0.855	0.840	0.790	0.838	0.819	0.835	3.36
78)	T	n-propylbenzene	4.530	4.627	4.449	4.211	4.424	4.317	4.427	3.35
79)	T	2-Chlorotoluene	2.852	2.723	2.674	2.507	2.618	2.554	2.655	4.69
80)	T	1,3,5-Trimethy...	3.004	3.091	3.035	2.898	3.064	2.953	3.007	2.39
81)	T	trans-1,4-Dich...	0.510	0.522	0.476	0.546	0.528	0.516		5.06
82)	T	4-Chlorotoluene	2.899	2.757	2.671	2.531	2.664	2.595	2.686	4.81
83)	T	tert-Butylbenzene	2.942	2.810	2.736	2.617	2.745	2.668	2.753	4.14
84)	T	1,2,4-Trimethy...	2.952	3.122	3.063	2.914	3.075	2.968	3.016	2.73
85)	T	sec-Butylbenzene	4.114	4.126	4.037	3.829	4.018	3.861	3.998	3.15
86)	T	p-Isopropyltol...	3.305	3.425	3.321	3.184	3.366	3.227	3.305	2.68
87)	T	1,3-Dichlorobe...	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5.01
88)	T	1,4-Dichlorobe...	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.27
89)	T	n-Butylbenzene	3.473	3.292	3.140	3.059	3.188	3.054	3.201	4.99
90)	T	Hexachloroethane	0.580	0.537	0.569	0.537	0.577	0.562	0.560	3.43
91)	T	1,2-Dichlorobe...	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.77
92)	T	1,2-Dibromo-3-...	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.29
93)	T	1,2,4-Trichlor...	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.82
94)	T	Hexachlorobuta...	0.364	0.391	0.385	0.363	0.382	0.369	0.376	3.11
95)	T	Naphthalene	3.820	3.727	3.761	3.600	3.839	3.772	3.753	2.27
96)	T	1,2,3-Trichlor...	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4.05

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086862.D
 Acq On : 06 Jun 2025 12:44
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:54:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	212682	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	393457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167399	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	2.153	85	1985	0.936	ug/l	72
3) Chloromethane	2.400	50	3241	1.184	ug/l	98
4) Vinyl Chloride	2.559	62	2848	1.008	ug/l #	88
6) Chloroethane	3.159	64	1957	1.073	ug/l #	79
7) Trichlorofluoromethane	3.530	101	3752	1.017	ug/l	97
8) Diethyl Ether	3.994	74	1583	0.984	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.377	101	2358m	1.017	ug/l	
12) 1,1-Dichloroethene	4.365	96	2436	1.029	ug/l	85
14) Allyl chloride	5.041	41	4189	1.067	ug/l #	75
15) Acrylonitrile	5.735	53	9222	5.106	ug/l	96
16) Acetone	4.459	43	9069	6.006	ug/l	95
17) Carbon Disulfide	4.730	76	7306	1.116	ug/l	97
18) Methyl Acetate	5.053	43	4402	1.000	ug/l #	66
19) Methyl tert-butyl Ether	5.824	73	9019	1.052	ug/l	92
20) Methylene Chloride	5.294	84	3496	1.237	ug/l	93
21) trans-1,2-Dichloroethene	5.800	96	2979	1.131	ug/l	87
22) Diisopropyl ether	6.682	45	8584	1.037	ug/l #	96
23) Vinyl Acetate	6.618	43	37075	5.303	ug/l	95
24) 1,1-Dichloroethane	6.588	63	5071	1.065	ug/l #	81
25) 2-Butanone	7.500	43	12841	5.231	ug/l	93
26) 2,2-Dichloropropane	7.500	77	4112	1.110	ug/l	94
27) cis-1,2-Dichloroethene	7.494	96	3345	1.062	ug/l	95
28) Bromochloromethane	7.824	49	2464	1.052	ug/l #	88
29) Tetrahydrofuran	7.853	42	8301	5.191	ug/l	100
30) Chloroform	7.971	83	5255	1.105	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	4378	1.082	ug/l #	50
36) 1,1-Dichloropropene	8.376	75	3678	1.059	ug/l	96
37) Ethyl Acetate	7.577	43	4282	0.968	ug/l #	78
38) Carbon Tetrachloride	8.376	117	3563	1.045	ug/l #	93
39) Methylcyclohexane	9.606	83	4981	1.046	ug/l #	90
40) Benzene	8.612	78	12498	1.100	ug/l	100
41) Methacrylonitrile	7.782	41	2799	1.127	ug/l	89
42) 1,2-Dichloroethane	8.682	62	3725	1.081	ug/l	82
43) Isopropyl Acetate	8.694	43	7673	1.081	ug/l #	96
44) Trichloroethene	9.365	130	2822	1.047	ug/l	71
45) 1,2-Dichloropropane	9.629	63	2883	1.043	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086862.D
 Acq On : 06 Jun 2025 12:44
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:54:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

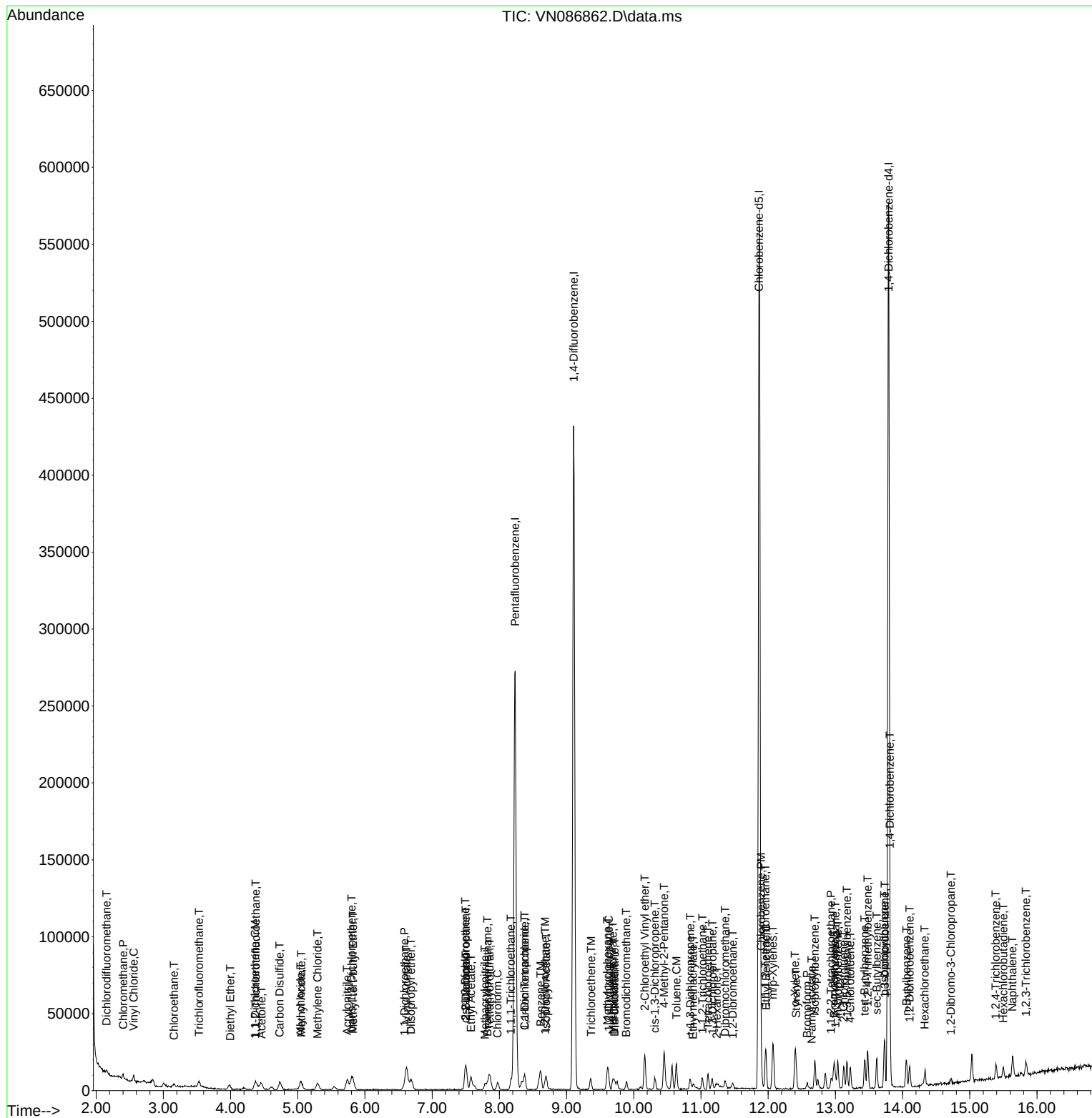
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1835	0.999	ug/l	94
47) Bromodichloromethane	9.888	83	4017	1.063	ug/l #	96
48) Methyl methacrylate	9.688	41	3492	1.069	ug/l	88
49) 1,4-Dioxane	9.706	88	1004	16.891	ug/l #	74
51) 4-Methyl-2-Pentanone	10.453	43	19886	4.653	ug/l	99
52) Toluene	10.635	92	7227	1.041	ug/l	95
53) t-1,3-Dichloropropene	10.841	75	4494	1.064	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	4792	1.060	ug/l	97
55) 1,1,2-Trichloroethane	11.023	97	2828	1.058	ug/l	89
56) Ethyl methacrylate	10.882	69	3406	0.800	ug/l #	85
57) 1,3-Dichloropropane	11.170	76	5062	1.092	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	10924	4.304	ug/l	97
59) 2-Hexanone	11.235	43	12295m	4.466	ug/l	
60) Dibromochloromethane	11.359	129	2843	1.021	ug/l	96
61) 1,2-Dibromoethane	11.470	107	2777	1.014	ug/l	96
64) Tetrachloroethene	11.106	164	2473	1.123	ug/l	94
65) Chlorobenzene	11.894	112	8581	1.118	ug/l #	87
66) 1,1,1,2-Tetrachloroethane	11.959	131	2523	1.023	ug/l #	63
67) Ethyl Benzene	11.970	91	13845	1.047	ug/l	94
68) m/p-Xylenes	12.070	106	10163	2.008	ug/l	95
69) o-Xylene	12.400	106	4970	1.025	ug/l	93
70) Styrene	12.417	104	8189	0.987	ug/l	98
71) Bromoform	12.582	173	1508	0.825	ug/l #	78
73) Isopropylbenzene	12.694	105	12938	1.061	ug/l	98
74) N-amyl acetate	12.647	43	4608m	1.138	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	4326	1.047	ug/l #	93
76) 1,2,3-Trichloropropane	13.000	75	4343m	1.088	ug/l	
77) Bromobenzene	12.982	156	2913	1.042	ug/l	96
78) n-propylbenzene	13.035	91	15168	1.023	ug/l	98
79) 2-Chlorotoluene	13.123	91	9550	1.074	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	10058	0.999	ug/l	96
82) 4-Chlorotoluene	13.223	91	9706	1.079	ug/l	96
83) tert-Butylbenzene	13.435	119	9849	1.069	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	9882	0.979	ug/l	99
85) sec-Butylbenzene	13.617	105	13775	1.029	ug/l	100
86) p-Isopropyltoluene	13.729	119	11065	1.000	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	5903	1.073	ug/l	94
88) 1,4-Dichlorobenzene	13.811	146	6094m	1.086	ug/l	
89) n-Butylbenzene	14.058	91	11627	1.085	ug/l	94
90) Hexachloroethane	14.329	117	1942	1.036	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	5607	1.061	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	1136	1.150	ug/l	78
93) 1,2,4-Trichlorobenzene	15.388	180	3489	1.034	ug/l	98
94) Hexachlorobutadiene	15.500	225	1219	0.969	ug/l	88
95) Naphthalene	15.635	128	12789	1.018	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	3594	1.072	ug/l	96

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086863.D
 Acq On : 06 Jun 2025 13:17
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	229701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	423980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	371851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181065	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	16818	5.468	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.940%#		
35) Dibromofluoromethane	8.177	113	12867	5.121	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.240%#		
50) Toluene-d8	10.571	98	52794	5.308	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.620%#		
62) 4-Bromofluorobenzene	12.847	95	18697	5.059	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.120%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	10196	4.452	ug/l	93
3) Chloromethane	2.395	50	15025	5.080	ug/l	98
4) Vinyl Chloride	2.554	62	15384	5.043	ug/l	97
5) Bromomethane	2.989	94	8606	5.041	ug/l	97
6) Chloroethane	3.154	64	10190	5.171	ug/l	96
7) Trichlorofluoromethane	3.518	101	20740	5.203	ug/l	99
8) Diethyl Ether	3.971	74	9121	5.252	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	13034	5.205	ug/l	97
10) Methyl Iodide	4.606	142	16530	5.092	ug/l	98
11) Tert butyl alcohol	5.542	59	22000	26.363	ug/l	99
12) 1,1-Dichloroethene	4.359	96	13610	5.323	ug/l	94
13) Acrolein	4.195	56	8401	31.804	ug/l	99
14) Allyl chloride	5.042	41	20925	4.935	ug/l	99
15) Acrylonitrile	5.736	53	49826	25.545	ug/l	99
16) Acetone	4.448	43	41981	25.741	ug/l	99
17) Carbon Disulfide	4.736	76	37246	5.267	ug/l	97
18) Methyl Acetate	5.048	43	24096	5.070	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	46823	5.058	ug/l	95
20) Methylene Chloride	5.300	84	15809	5.178	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	15480	5.442	ug/l #	81
22) Diisopropyl ether	6.689	45	46396	5.191	ug/l	99
23) Vinyl Acetate	6.618	43	194334	25.735	ug/l	100
24) 1,1-Dichloroethane	6.583	63	26473	5.147	ug/l	99
25) 2-Butanone	7.494	43	68629	25.888	ug/l	99
26) 2,2-Dichloropropane	7.500	77	18288	4.571	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	17594	5.172	ug/l	98
28) Bromochloromethane	7.830	49	12958	5.124	ug/l #	97
29) Tetrahydrofuran	7.853	42	44749	25.912	ug/l	98
30) Chloroform	7.977	83	26450	5.149	ug/l	95
31) Cyclohexane	8.271	56	29938	6.002	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	22857	5.232	ug/l #	50
36) 1,1-Dichloropropene	8.377	75	19410	5.184	ug/l	98
37) Ethyl Acetate	7.571	43	26073	5.470	ug/l	97
38) Carbon Tetrachloride	8.371	117	19056	5.184	ug/l	99
39) Methylcyclohexane	9.606	83	27353	5.333	ug/l	95
40) Benzene	8.612	78	63646	5.199	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086863.D
 Acq On : 06 Jun 2025 13:17
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	13518	5.050	ug/l	99
42) 1,2-Dichloroethane	8.683	62	19329	5.205	ug/l	98
43) Isopropyl Acetate	8.700	43	40268	5.264	ug/l	98
44) Trichloroethene	9.359	130	15245	5.251	ug/l	96
45) 1,2-Dichloropropane	9.624	63	15632	5.248	ug/l	99
46) Dibromomethane	9.718	93	10241	5.176	ug/l	99
47) Bromodichloromethane	9.888	83	20512	5.039	ug/l	97
48) Methyl methacrylate	9.688	41	17591	4.996	ug/l	94
49) 1,4-Dioxane	9.700	88	6141	95.874	ug/l #	93
51) 4-Methyl-2-Pentanone	10.447	43	116434	25.283	ug/l	97
52) Toluene	10.630	92	38744	5.178	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	22285	4.896	ug/l	98
54) cis-1,3-Dichloropropene	10.318	75	24477	5.026	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	15068	5.234	ug/l	97
56) Ethyl methacrylate	10.888	69	21893	4.774	ug/l	95
57) 1,3-Dichloropropane	11.165	76	25452	5.096	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	64722	23.664	ug/l	98
59) 2-Hexanone	11.212	43	59884	20.188	ug/l	99
60) Dibromochloromethane	11.359	129	14884	4.962	ug/l	98
61) 1,2-Dibromoethane	11.471	107	15172	5.141	ug/l	99
64) Tetrachloroethene	11.106	164	12322	5.236	ug/l	92
65) Chlorobenzene	11.894	112	42195	5.145	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.965	131	13897	5.271	ug/l	97
67) Ethyl Benzene	11.965	91	73443	5.199	ug/l	97
68) m/p-Xylenes	12.071	106	55859	10.330	ug/l	100
69) o-Xylene	12.400	106	26004	5.021	ug/l	96
70) Styrene	12.412	104	44380	5.008	ug/l	98
71) Bromoform	12.582	173	9890	5.063	ug/l #	96
73) Isopropylbenzene	12.694	105	67878	5.146	ug/l	100
74) N-amyl acetate	12.559	43	20096m	4.590	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	23516	5.262	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	21527m	4.986	ug/l	
77) Bromobenzene	12.976	156	15485	5.119	ug/l	92
78) n-propylbenzene	13.035	91	83781	5.226	ug/l	99
79) 2-Chlorotoluene	13.124	91	49297	5.128	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	55961	5.139	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.741	75	9234	4.939	ug/l	94
82) 4-Chlorotoluene	13.223	91	49924	5.132	ug/l	100
83) tert-Butylbenzene	13.435	119	50874	5.103	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	56525	5.176	ug/l	100
85) sec-Butylbenzene	13.618	105	74711	5.161	ug/l	99
86) p-Isopropyltoluene	13.729	119	62016	5.182	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	30949	5.200	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	32342	5.330	ug/l	96
89) n-Butylbenzene	14.053	91	59601	5.142	ug/l	99
90) Hexachloroethane	14.335	117	9725	4.794	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	29897	5.228	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5731	5.363	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	18778	5.143	ug/l	99
94) Hexachlorobutadiene	15.500	225	7072	5.199	ug/l	99
95) Naphthalene	15.641	128	67481	4.965	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	18262	5.034	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

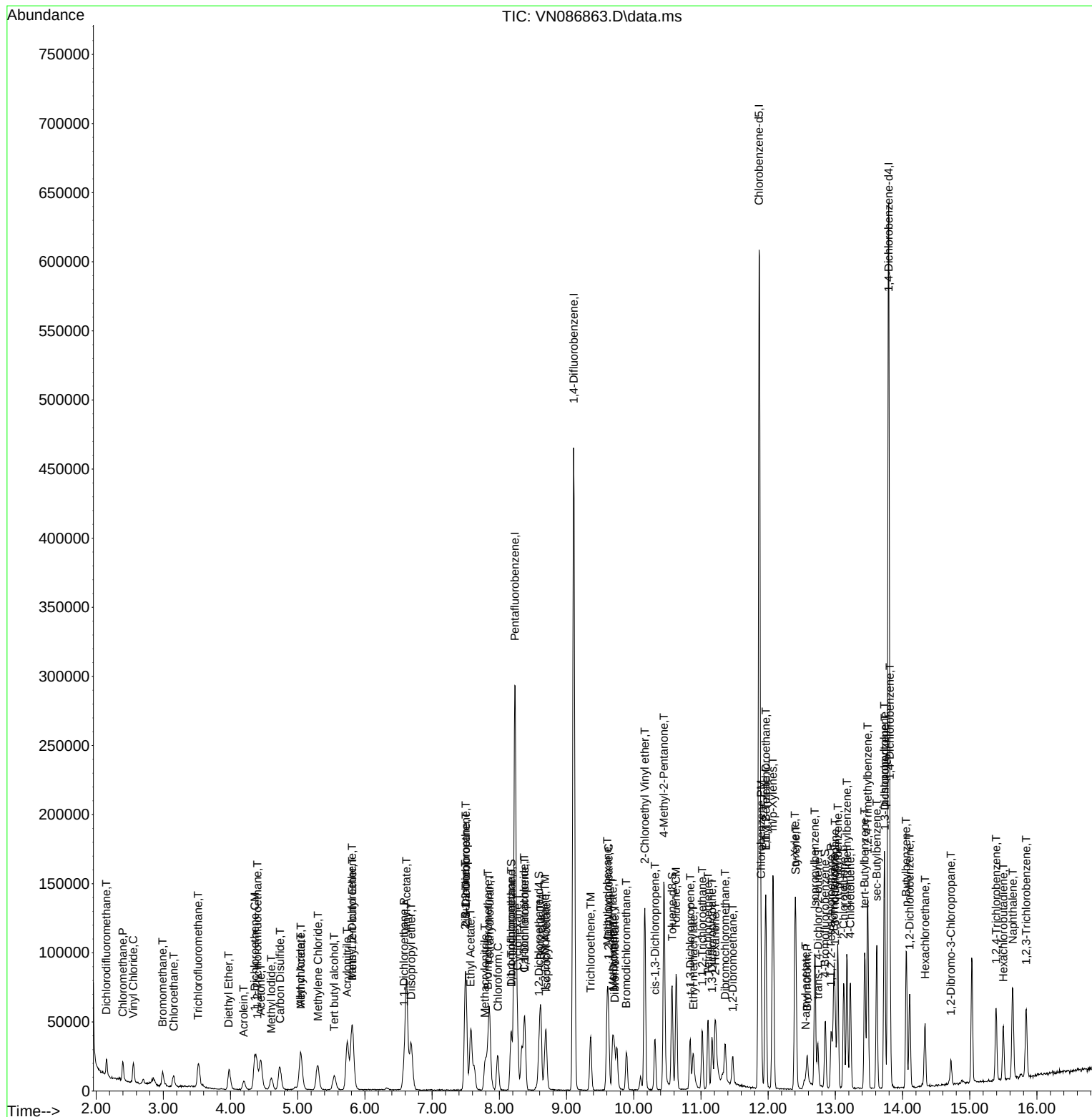
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	224006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	418154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	181178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	63390	21.136	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.280%#		
35) Dibromofluoromethane	8.177	113	51797	20.902	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.800%#		
50) Toluene-d8	10.571	98	201268	20.516	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.040%#		
62) 4-Bromofluorobenzene	12.853	95	74622	20.474	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.940%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.159	85	48254	21.605	ug/l	92
3) Chloromethane	2.401	50	57778	20.033	ug/l	93
4) Vinyl Chloride	2.559	62	61254	20.589	ug/l	99
5) Bromomethane	3.006	94	34022	20.435	ug/l	95
6) Chloroethane	3.159	64	39625	20.619	ug/l	99
7) Trichlorofluoromethane	3.524	101	80978	20.832	ug/l	94
8) Diethyl Ether	3.983	74	34288	20.245	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.395	101	50458	20.661	ug/l	98
10) Methyl Iodide	4.612	142	65360	20.646	ug/l	98
11) Tert butyl alcohol	5.547	59	87102	107.031	ug/l	99
12) 1,1-Dichloroethene	4.359	96	50485	20.249	ug/l	96
13) Acrolein	4.200	56	22866	88.767	ug/l	97
14) Allyl chloride	5.047	41	82924	20.055	ug/l	98
15) Acrylonitrile	5.742	53	199498	104.881	ug/l	99
16) Acetone	4.447	43	163979	103.099	ug/l	98
17) Carbon Disulfide	4.736	76	138195	20.038	ug/l	97
18) Methyl Acetate	5.047	43	96547	20.830	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	183780	20.358	ug/l	98
20) Methylene Chloride	5.294	84	57611	19.348	ug/l	98
21) trans-1,2-Dichloroethene	5.806	96	55643	20.059	ug/l	94
22) Diisopropyl ether	6.689	45	182472	20.935	ug/l	98
23) Vinyl Acetate	6.624	43	768556	104.365	ug/l	99
24) 1,1-Dichloroethane	6.583	63	103578	20.650	ug/l	99
25) 2-Butanone	7.494	43	270477	104.621	ug/l	100
26) 2,2-Dichloropropane	7.506	77	69692	17.862	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	68292	20.585	ug/l	98
28) Bromochloromethane	7.824	49	55196	22.381	ug/l	99
29) Tetrahydrofuran	7.853	42	178571	106.031	ug/l	99
30) Chloroform	7.977	83	102615	20.485	ug/l	93
31) Cyclohexane	8.271	56	100026	20.563	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	86810	20.376	ug/l	98
36) 1,1-Dichloropropene	8.383	75	73252	19.838	ug/l	100
37) Ethyl Acetate	7.571	43	96467	20.522	ug/l	98
38) Carbon Tetrachloride	8.377	117	72628	20.034	ug/l	97
39) Methylcyclohexane	9.606	83	98425	19.455	ug/l	99
40) Benzene	8.612	78	241444	19.996	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	53244	20.169	ug/l	98
42) 1,2-Dichloroethane	8.677	62	74238	20.270	ug/l	100
43) Isopropyl Acetate	8.694	43	151601	20.094	ug/l	99
44) Trichloroethene	9.359	130	57110	19.946	ug/l	96
45) 1,2-Dichloropropane	9.630	63	59293	20.184	ug/l	97
46) Dibromomethane	9.712	93	40290	20.648	ug/l	98
47) Bromodichloromethane	9.894	83	80353	20.015	ug/l	98
48) Methyl methacrylate	9.682	41	70457	20.290	ug/l	97
49) 1,4-Dioxane	9.706	88	28231	446.886	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	481741	106.066	ug/l	99
52) Toluene	10.635	92	148000	20.056	ug/l	98
53) t-1,3-Dichloropropene	10.841	75	87683	19.532	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	94315	19.636	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	57195	20.143	ug/l	99
56) Ethyl methacrylate	10.882	69	94829	20.968	ug/l	98
57) 1,3-Dichloropropane	11.165	76	98205	19.938	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	278986	103.426	ug/l	99
59) 2-Hexanone	11.206	43	303686	103.803	ug/l	95
60) Dibromochloromethane	11.359	129	59961	20.268	ug/l	99
61) 1,2-Dibromoethane	11.471	107	59139	20.320	ug/l	97
64) Tetrachloroethene	11.106	164	45374	19.742	ug/l	96
65) Chlorobenzene	11.894	112	160803	20.076	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	52069	20.223	ug/l	99
67) Ethyl Benzene	11.965	91	277087	20.083	ug/l	98
68) m/p-Xylenes	12.071	106	215378	40.780	ug/l	100
69) o-Xylene	12.400	106	102050	20.175	ug/l	98
70) Styrene	12.412	104	178061	20.572	ug/l	99
71) Bromoform	12.576	173	40070	21.004	ug/l #	99
73) Isopropylbenzene	12.694	105	264442	20.035	ug/l	100
74) N-amyl acetate	12.523	43	86003	19.633	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	92264	20.634	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	81846m	18.945	ug/l	
77) Bromobenzene	12.982	156	60877	20.111	ug/l	98
78) n-propylbenzene	13.035	91	322436	20.102	ug/l	100
79) 2-Chlorotoluene	13.123	91	193774	20.144	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	219937	20.183	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	37808	20.209	ug/l	92
82) 4-Chlorotoluene	13.223	91	193544	19.885	ug/l	99
83) tert-Butylbenzene	13.435	119	198303	19.880	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	221990	20.315	ug/l	100
85) sec-Butylbenzene	13.617	105	292563	20.196	ug/l	100
86) p-Isopropyltoluene	13.729	119	240682	20.099	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	120099	20.166	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	120102	19.780	ug/l	97
89) n-Butylbenzene	14.053	91	227536	19.617	ug/l	100
90) Hexachloroethane	14.335	117	41202	20.299	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	115645	20.212	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21025	19.661	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	71826	19.659	ug/l	98
94) Hexachlorobutadiene	15.500	225	27887	20.486	ug/l	97
95) Naphthalene	15.641	128	272584	20.043	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	71929	19.815	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

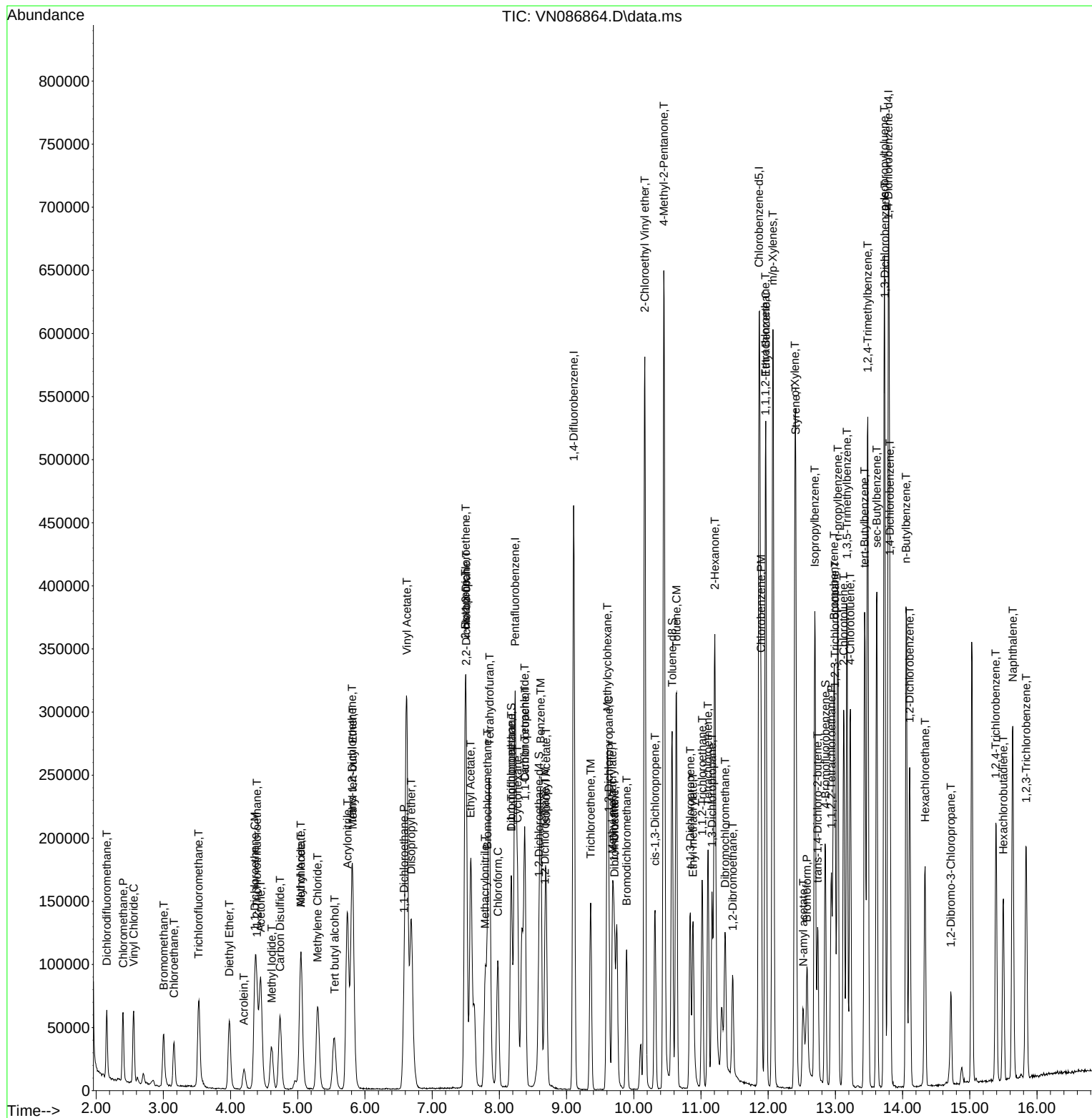
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	207354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	378587	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	332766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167532	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	103736	37.366	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	74.740%		
35) Dibromofluoromethane	8.171	113	83058	37.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	74.040%#		
50) Toluene-d8	10.571	98	326105	36.716	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	73.440%#		
62) 4-Bromofluorobenzene	12.847	95	122965	37.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	74.520%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	103958	50.283	ug/l	100
3) Chloromethane	2.395	50	123866	46.397	ug/l	100
4) Vinyl Chloride	2.554	62	132783	48.215	ug/l	100
5) Bromomethane	2.995	94	73974	47.999	ug/l	100
6) Chloroethane	3.154	64	84505	47.504	ug/l	100
7) Trichlorofluoromethane	3.524	101	172860	48.041	ug/l	100
8) Diethyl Ether	3.983	74	75193	47.963	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	107695	47.640	ug/l	100
10) Methyl Iodide	4.606	142	141678	48.346	ug/l	100
11) Tert butyl alcohol	5.548	59	182315	242.020	ug/l	100
12) 1,1-Dichloroethene	4.359	96	110549	47.900	ug/l	100
13) Acrolein	4.201	56	47026	197.217	ug/l	100
14) Allyl chloride	5.042	41	179313	46.848	ug/l	100
15) Acrylonitrile	5.742	53	421941	239.638	ug/l	100
16) Acetone	4.448	43	333857	226.765	ug/l	100
17) Carbon Disulfide	4.730	76	295753	46.328	ug/l	100
18) Methyl Acetate	5.042	43	204538	47.673	ug/l	100
19) Methyl tert-butyl Ether	5.812	73	400775	47.960	ug/l	100
20) Methylene Chloride	5.295	84	125498	45.531	ug/l	100
21) trans-1,2-Dichloroethene	5.806	96	117660	45.822	ug/l	100
22) Diisopropyl ether	6.689	45	384939	47.711	ug/l	100
23) Vinyl Acetate	6.618	43	1649023	241.910	ug/l	100
24) 1,1-Dichloroethane	6.583	63	220477	47.485	ug/l	100
25) 2-Butanone	7.494	43	571221	238.693	ug/l	100
26) 2,2-Dichloropropane	7.500	77	187567	51.933	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	144911	47.189	ug/l	100
28) Bromochloromethane	7.824	49	96707	42.362	ug/l	100
29) Tetrahydrofuran	7.853	42	371357	238.210	ug/l	100
30) Chloroform	7.977	83	220093	47.467	ug/l	100
31) Cyclohexane	8.271	56	208105	46.217	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	185502	47.037	ug/l	100
36) 1,1-Dichloropropene	8.377	75	158341	47.362	ug/l	100
37) Ethyl Acetate	7.577	43	203091	47.720	ug/l	100
38) Carbon Tetrachloride	8.371	117	154677	47.126	ug/l	100
39) Methylcyclohexane	9.606	83	215849	47.126	ug/l	100
40) Benzene	8.612	78	509334	46.590	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	114727	48.000	ug/l	100
42) 1,2-Dichloroethane	8.677	62	155713	46.960	ug/l	100
43) Isopropyl Acetate	8.694	43	322741	47.248	ug/l	100
44) Trichloroethene	9.359	130	123847	47.776	ug/l	100
45) 1,2-Dichloropropane	9.630	63	125673	47.251	ug/l	100
46) Dibromomethane	9.718	93	83811	47.442	ug/l	100
47) Bromodichloromethane	9.894	83	173200	47.651	ug/l	100
48) Methyl methacrylate	9.683	41	149019	47.399	ug/l	100
49) 1,4-Dioxane	9.700	88	59060	1032.607	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	1017688	247.484	ug/l	100
52) Toluene	10.635	92	316219	47.331	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	197475	48.587	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	208523	47.950	ug/l	100
55) 1,1,2-Trichloroethane	11.018	97	121969	47.445	ug/l	100
56) Ethyl methacrylate	10.882	69	210467	51.401	ug/l	100
57) 1,3-Dichloropropane	11.165	76	212243	47.593	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.165	63	519139	212.570	ug/l	100
59) 2-Hexanone	11.200	43	696567	262.977	ug/l	100
60) Dibromochloromethane	11.359	129	128715	48.056	ug/l	100
61) 1,2-Dibromoethane	11.471	107	124522	47.258	ug/l	100
64) Tetrachloroethene	11.106	164	97679	46.382	ug/l	100
65) Chlorobenzene	11.894	112	340439	46.386	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.965	131	112333	47.615	ug/l	100
67) Ethyl Benzene	11.965	91	597593	47.271	ug/l	100
68) m/p-Xylenes	12.071	106	466620	96.424	ug/l	100
69) o-Xylene	12.400	106	224299	48.395	ug/l	100
70) Styrene	12.412	104	386596	48.745	ug/l	100
71) Bromoform	12.582	173	88127	50.415	ug/l #	100
73) Isopropylbenzene	12.694	105	573905	47.023	ug/l	100
74) N-amyl acetate	12.512	43	212064	52.353	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.941	83	197360	47.732	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	196473m	49.183	ug/l	
77) Bromobenzene	12.982	156	132381	47.296	ug/l	100
78) n-propylbenzene	13.035	91	705524	47.567	ug/l	100
79) 2-Chlorotoluene	13.124	91	419986	47.216	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	485499	48.181	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	79732	46.089	ug/l	100
82) 4-Chlorotoluene	13.224	91	424066	47.117	ug/l	100
83) tert-Butylbenzene	13.435	119	438417	47.531	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	488189	48.314	ug/l	100
85) sec-Butylbenzene	13.618	105	641523	47.893	ug/l	100
86) p-Isopropyltoluene	13.729	119	533366	48.169	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	260310	47.269	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	263358	46.907	ug/l	100
89) n-Butylbenzene	14.053	91	512519	47.787	ug/l	100
90) Hexachloroethane	14.335	117	89896	47.896	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	251235	47.486	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	45535	46.049	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	162374	48.061	ug/l	100
94) Hexachlorobutadiene	15.500	225	60866	48.356	ug/l	100
95) Naphthalene	15.641	128	603088	47.958	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	159113	47.402	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

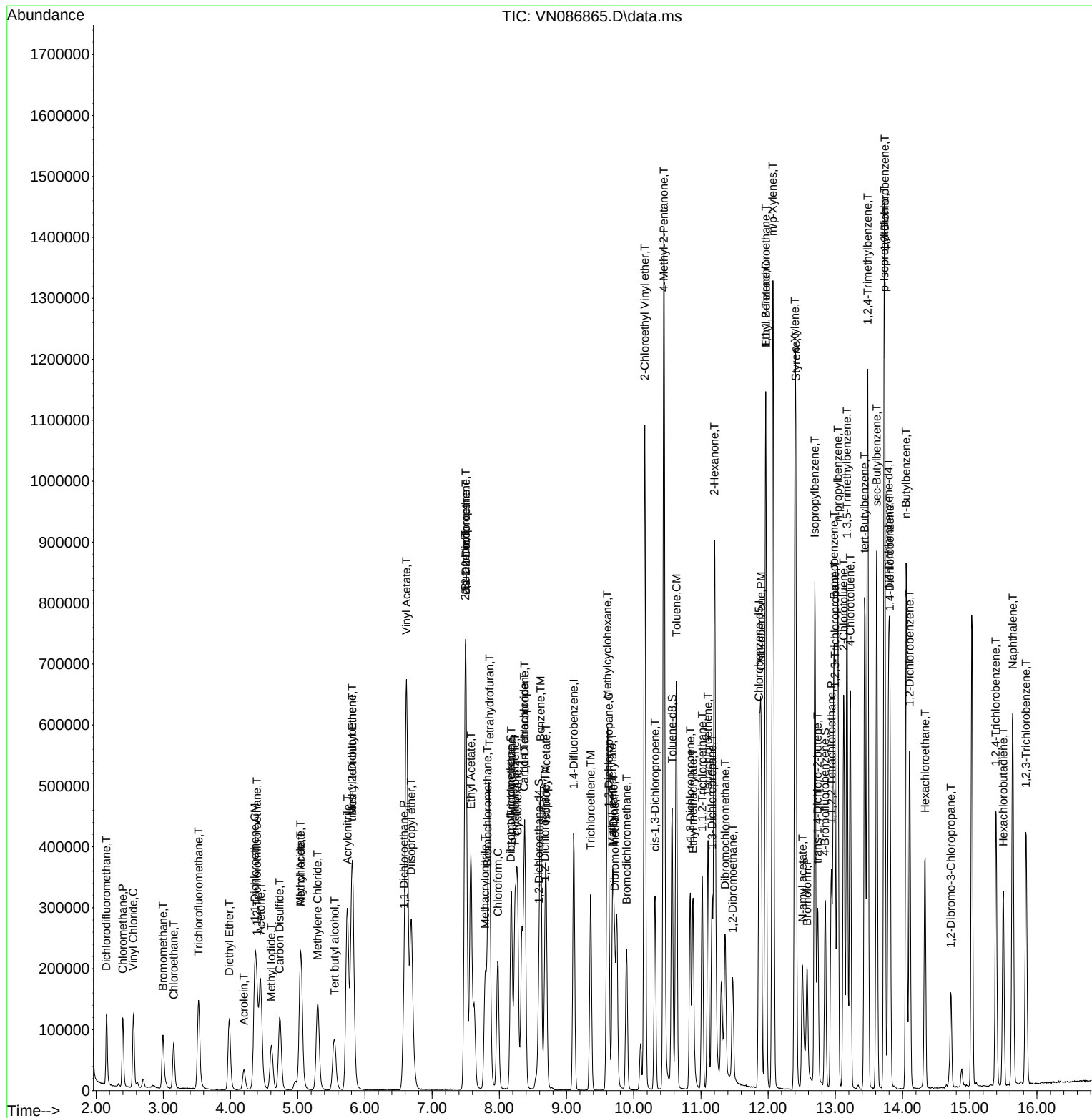
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	181996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	327782	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	290313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147098	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	238957	98.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.120%#			
35) Dibromofluoromethane	8.177	113	195212	100.495	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 200.980%#			
50) Toluene-d8	10.570	98	772210	100.419	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.840%#			
62) 4-Bromofluorobenzene	12.847	95	292385	102.339	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 204.680%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.153	85	194799	107.350	ug/l	100
3) Chloromethane	2.395	50	224558	95.833	ug/l	98
4) Vinyl Chloride	2.553	62	245135	101.414	ug/l	98
5) Bromomethane	2.977	94	137967	101.996	ug/l	99
6) Chloroethane	3.147	64	152150	97.447	ug/l	97
7) Trichlorofluoromethane	3.524	101	312394	98.917	ug/l	99
8) Diethyl Ether	3.983	74	139844	101.631	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.389	101	198739	100.163	ug/l	99
10) Methyl Iodide	4.612	142	262771	102.162	ug/l	99
11) Tert butyl alcohol	5.547	59	327987	496.062	ug/l	99
12) 1,1-Dichloroethene	4.359	96	200212	98.838	ug/l	99
13) Acrolein	4.200	56	94171	449.961	ug/l	98
14) Allyl chloride	5.047	41	329412	98.055	ug/l	99
15) Acrylonitrile	5.735	53	770470	498.552	ug/l	99
16) Acetone	4.447	43	608178	470.648	ug/l	98
17) Carbon Disulfide	4.736	76	544511	97.179	ug/l	100
18) Methyl Acetate	5.047	43	381808	101.390	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	735694	100.306	ug/l	100
20) Methylene Chloride	5.294	84	228800	94.575	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	215177	95.476	ug/l	99
22) Diisopropyl ether	6.688	45	696881	98.409	ug/l	98
23) Vinyl Acetate	6.618	43	2919350	487.936	ug/l	100
24) 1,1-Dichloroethane	6.588	63	404207	99.186	ug/l	99
25) 2-Butanone	7.494	43	1043385	496.743	ug/l	100
26) 2,2-Dichloropropane	7.500	77	331995	104.729	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	265248	98.410	ug/l	99
28) Bromochloromethane	7.824	49	188050	93.851	ug/l	99
29) Tetrahydrofuran	7.847	42	677636	495.240	ug/l	99
30) Chloroform	7.977	83	394927	97.040	ug/l	99
31) Cyclohexane	8.265	56	374933	94.869	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	336819	97.306	ug/l	99
36) 1,1-Dichloropropene	8.382	75	289907	100.156	ug/l	99
37) Ethyl Acetate	7.571	43	370652	100.591	ug/l	99
38) Carbon Tetrachloride	8.371	117	285325	100.404	ug/l	98
39) Methylcyclohexane	9.606	83	395603	99.758	ug/l	99
40) Benzene	8.612	78	927083	97.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.794	41	195946	94.688	ug/l	95
42) 1,2-Dichloroethane	8.676	62	282015	98.232	ug/l	100
43) Isopropyl Acetate	8.694	43	579464	97.981	ug/l	99
44) Trichloroethene	9.359	130	222822	99.280	ug/l	97
45) 1,2-Dichloropropane	9.629	63	230454	100.077	ug/l	98
46) Dibromomethane	9.712	93	155530	101.685	ug/l	99
47) Bromodichloromethane	9.894	83	316375	100.533	ug/l	100
48) Methyl methacrylate	9.682	41	275710	101.288	ug/l	99
49) 1,4-Dioxane	9.706	88	104771	2115.744	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1843274	517.729	ug/l	99
52) Toluene	10.635	92	578978	100.092	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	359200	102.077	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	383030	101.730	ug/l	99
55) 1,1,2-Trichloroethane	11.017	97	219922	98.808	ug/l	98
56) Ethyl methacrylate	10.882	69	389802	109.955	ug/l	99
57) 1,3-Dichloropropane	11.165	76	382510	99.069	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	1113523	526.621	ug/l	100
59) 2-Hexanone	11.200	43	1301539	567.535	ug/l	99
60) Dibromochloromethane	11.359	129	237965	102.616	ug/l	100
61) 1,2-Dibromoethane	11.470	107	232214	101.787	ug/l	98
64) Tetrachloroethene	11.106	164	181568	98.824	ug/l	94
65) Chlorobenzene	11.894	112	632563	98.793	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	206895	100.521	ug/l	100
67) Ethyl Benzene	11.964	91	1110803	100.717	ug/l	99
68) m/p-Xylenes	12.070	106	854557	202.411	ug/l	99
69) o-Xylene	12.400	106	412719	102.070	ug/l	100
70) Styrene	12.412	104	713548	103.127	ug/l	100
71) Bromoform	12.576	173	165781	108.707	ug/l #	99
73) Isopropylbenzene	12.694	105	1065297	99.410	ug/l	100
74) N-amyl acetate	12.506	43	403587	113.475	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	354386	97.616	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	353334m	100.738	ug/l	
77) Bromobenzene	12.982	156	246413	100.266	ug/l	99
78) n-propylbenzene	13.035	91	1301631	99.948	ug/l	100
79) 2-Chlorotoluene	13.123	91	770308	98.630	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	901317	101.873	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	160736	105.820	ug/l	92
82) 4-Chlorotoluene	13.223	91	783657	99.166	ug/l	100
83) tert-Butylbenzene	13.435	119	807528	99.710	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	904794	101.983	ug/l	100
85) sec-Butylbenzene	13.617	105	1182155	100.513	ug/l	99
86) p-Isopropyltoluene	13.729	119	990273	101.857	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	474162	98.063	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	483003	97.978	ug/l	99
89) n-Butylbenzene	14.053	91	937913	99.598	ug/l	100
90) Hexachloroethane	14.335	117	169772	103.019	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	458049	98.602	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	83243	95.877	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	298870	100.751	ug/l	99
94) Hexachlorobutadiene	15.500	225	112496	101.789	ug/l	98
95) Naphthalene	15.641	128	1129434	102.290	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	294127	99.796	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

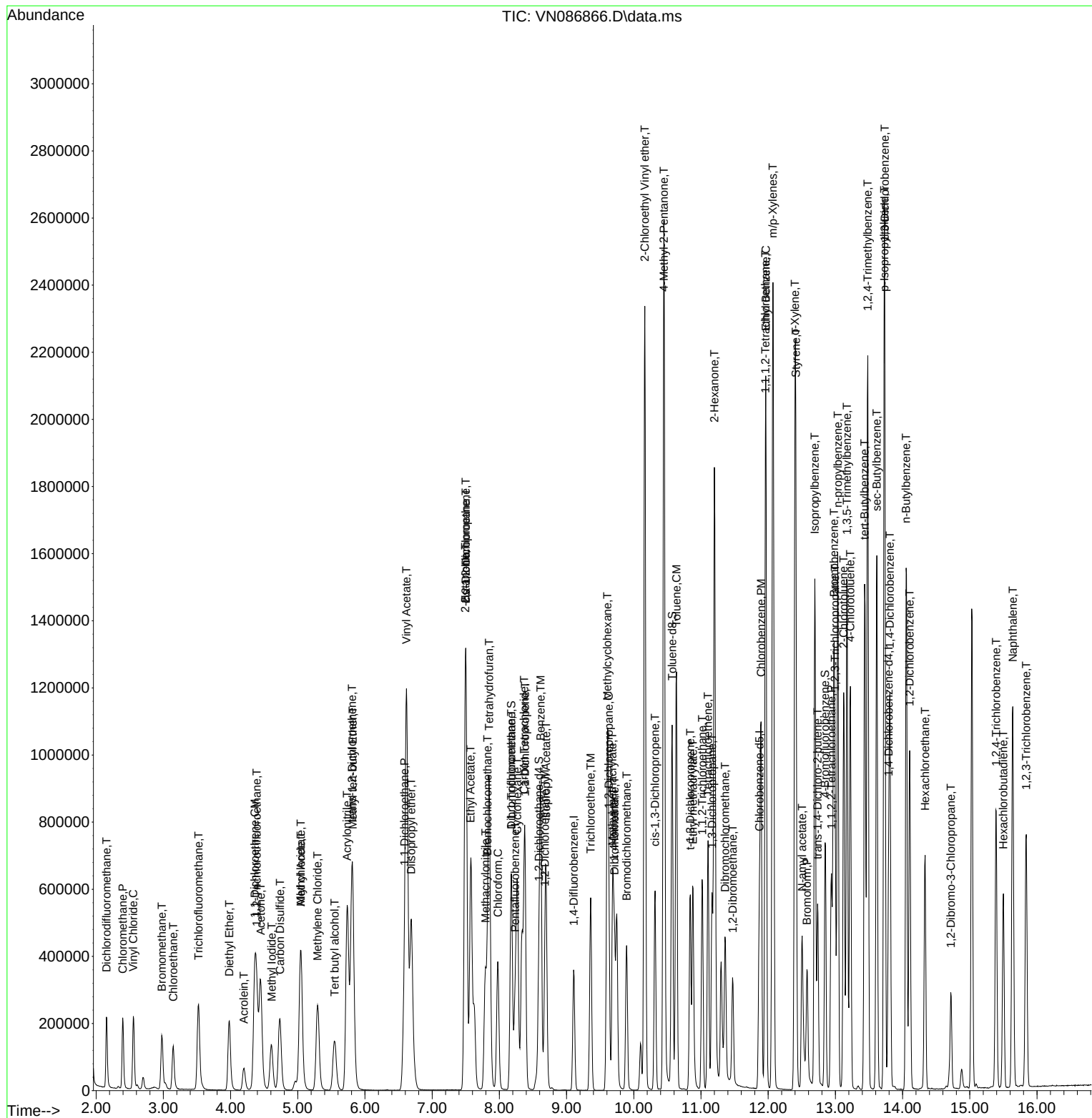
Quant Time: Jun 07 01:58:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086867.D
 Acq On : 06 Jun 2025 14:49
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	172832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	307937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	278552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	389297	168.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 336.460%#			
35) Dibromofluoromethane	8.176	113	324474	177.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 355.600%#			
50) Toluene-d8	10.570	98	1272348	176.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 352.240%#			
62) 4-Bromofluorobenzene	12.847	95	481421	179.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 358.720%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	262143	152.122	ug/l	100
3) Chloromethane	2.394	50	304558	136.865	ug/l	100
4) Vinyl Chloride	2.553	62	335834	146.303	ug/l	100
5) Bromomethane	2.965	94	190786	148.522	ug/l	98
6) Chloroethane	3.136	64	208568	140.664	ug/l	96
7) Trichlorofluoromethane	3.518	101	427871	142.666	ug/l	100
8) Diethyl Ether	3.983	74	191555	146.593	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.388	101	269810	143.192	ug/l	100
10) Methyl Iodide	4.606	142	352020	144.118	ug/l	99
11) Tert butyl alcohol	5.553	59	430866	686.213	ug/l	100
12) 1,1-Dichloroethene	4.353	96	273388	142.118	ug/l	98
13) Acrolein	4.194	56	171625	863.526	ug/l	99
14) Allyl chloride	5.035	41	490852	153.858	ug/l	92
15) Acrylonitrile	5.735	53	1048372	714.344	ug/l	99
16) Acetone	4.447	43	819041	667.435	ug/l	100
17) Carbon Disulfide	4.730	76	742788	139.594	ug/l	100
18) Methyl Acetate	5.041	43	523996	146.527	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	998781	143.396	ug/l	99
20) Methylene Chloride	5.300	84	311597	135.628	ug/l	99
21) trans-1,2-Dichloroethene	5.806	96	290960	135.947	ug/l	97
22) Diisopropyl ether	6.688	45	947638	140.915	ug/l	98
23) Vinyl Acetate	6.618	43	3932872	692.189	ug/l	99
24) 1,1-Dichloroethane	6.582	63	540881	139.761	ug/l	99
25) 2-Butanone	7.494	43	1381940	692.809	ug/l	99
26) 2,2-Dichloropropane	7.500	77	450112	149.519	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	363398	141.974	ug/l	99
28) Bromochloromethane	7.824	49	290594	152.718	ug/l	98
29) Tetrahydrofuran	7.847	42	898159	691.211	ug/l	98
30) Chloroform	7.976	83	534038	138.179	ug/l	97
31) Cyclohexane	8.265	56	505795	134.766	ug/l	96
32) 1,1,1-Trichloroethane	8.176	97	462854	140.807	ug/l	99
36) 1,1-Dichloropropene	8.376	75	393166	144.584	ug/l	100
37) Ethyl Acetate	7.571	43	494000	142.706	ug/l	99
38) Carbon Tetrachloride	8.371	117	388595	145.557	ug/l	98
39) Methylcyclohexane	9.606	83	544437	146.136	ug/l	97
40) Benzene	8.612	78	1266139	142.388	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086867.D
 Acq On : 06 Jun 2025 14:49
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	276400	142.174	ug/l	98
42) 1,2-Dichloroethane	8.676	62	381516	141.455	ug/l	100
43) Isopropyl Acetate	8.694	43	780791	140.531	ug/l	99
44) Trichloroethene	9.359	130	302548	143.490	ug/l	96
45) 1,2-Dichloropropane	9.623	63	309047	142.856	ug/l	100
46) Dibromomethane	9.712	93	208461	145.074	ug/l	100
47) Bromodichloromethane	9.894	83	430011	145.449	ug/l	100
48) Methyl methacrylate	9.688	41	366967	143.502	ug/l	99
49) 1,4-Dioxane	9.712	88	138035	2967.116	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	2438311	728.995	ug/l	98
52) Toluene	10.635	92	793270	145.976	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	489809	148.163	ug/l	97
54) cis-1,3-Dichloropropene	10.318	75	518092	146.469	ug/l	99
55) 1,1,2-Trichloroethane	11.017	97	298151	142.588	ug/l	99
56) Ethyl methacrylate	10.876	69	533912	160.311	ug/l	98
57) 1,3-Dichloropropane	11.165	76	516391	142.363	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	1869543	941.147	ug/l	99
59) 2-Hexanone	11.200	43	1735777	805.662	ug/l	99
60) Dibromochloromethane	11.365	129	322064	147.832	ug/l	98
61) 1,2-Dibromoethane	11.470	107	314606	146.790	ug/l	99
64) Tetrachloroethene	11.106	164	245122	139.048	ug/l	97
65) Chlorobenzene	11.894	112	860345	140.041	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	282739	143.171	ug/l	99
67) Ethyl Benzene	11.964	91	1517883	143.438	ug/l	98
68) m/p-Xylenes	12.070	106	1175378	290.155	ug/l	99
69) o-Xylene	12.400	106	566301	145.966	ug/l	100
70) Styrene	12.411	104	972318	146.459	ug/l	100
71) Bromoform	12.582	173	223200	152.538	ug/l #	99
73) Isopropylbenzene	12.694	105	1453651	146.042	ug/l	100
74) N-amyl acetate	12.500	43	543747	164.596	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.941	83	474426	140.693	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	468041m	143.665	ug/l	
77) Bromobenzene	12.982	156	335734	147.077	ug/l	98
78) n-propylbenzene	13.035	91	1769694	146.301	ug/l	99
79) 2-Chlorotoluene	13.123	91	1046916	144.317	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	1210325	147.279	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	216253	153.277	ug/l	95
82) 4-Chlorotoluene	13.223	91	1063581	144.900	ug/l	100
83) tert-Butylbenzene	13.435	119	1093406	145.352	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	1216529	147.626	ug/l	100
85) sec-Butylbenzene	13.617	105	1582762	144.885	ug/l	99
86) p-Isopropyltoluene	13.729	119	1322780	146.482	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	641966	142.939	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	646188	141.124	ug/l	99
89) n-Butylbenzene	14.053	91	1251819	143.117	ug/l	100
90) Hexachloroethane	14.335	117	230195	150.387	ug/l	98
91) 1,2-Dichlorobenzene	14.105	146	613177	142.108	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	110677	137.242	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	407621	147.940	ug/l	99
94) Hexachlorobutadiene	15.500	225	151172	147.264	ug/l	98
95) Naphthalene	15.641	128	1545981	150.743	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	404450	147.743	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

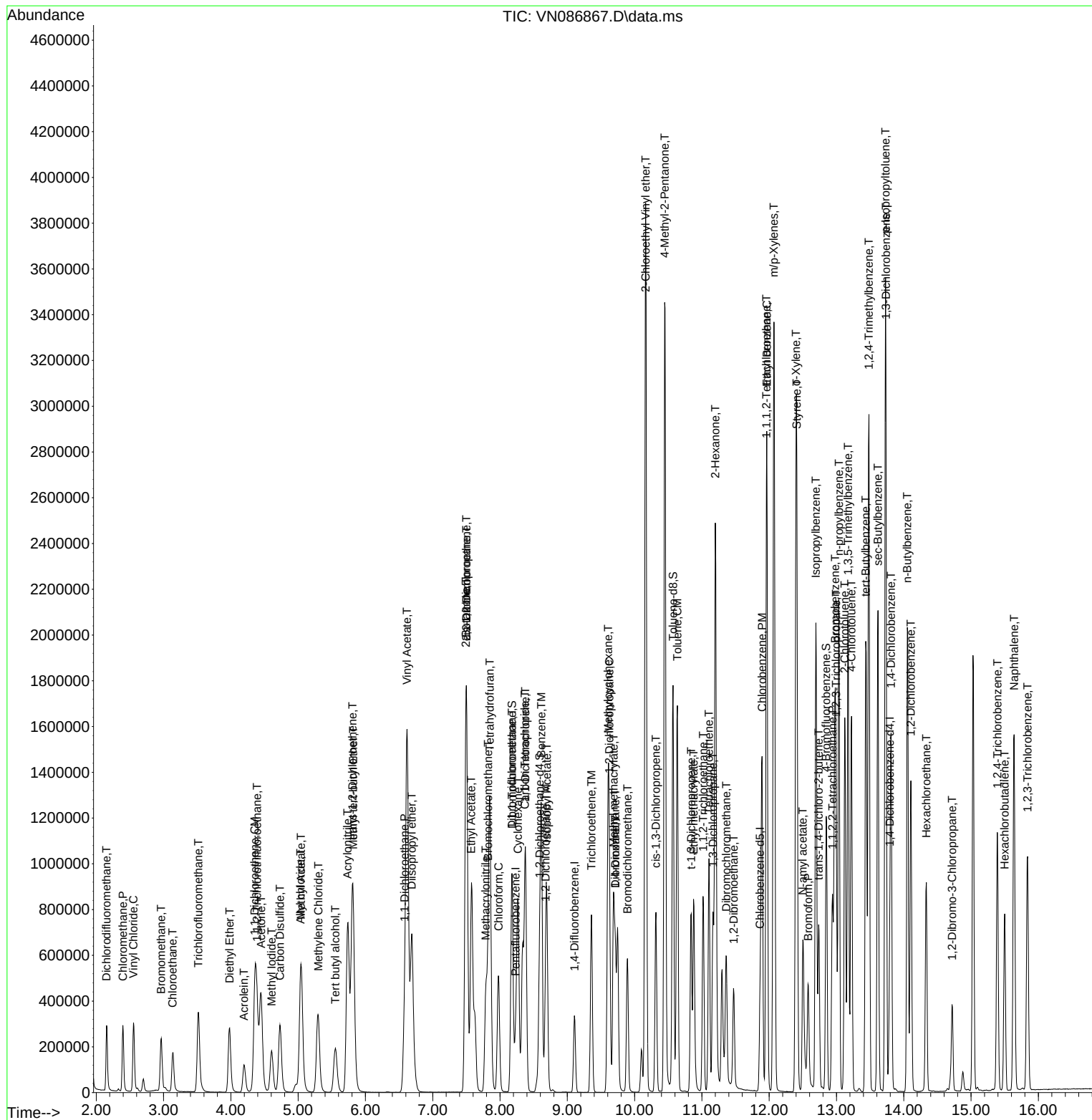
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	218122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	172710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	152255	52.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.177	113	127102	54.416	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.840%			
50) Toluene-d8	10.571	98	491265	53.129	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	185792	54.081	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.160%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	120237	55.286	ug/l	99
3) Chloromethane	2.401	50	139027	49.505	ug/l	99
4) Vinyl Chloride	2.554	62	151951	52.451	ug/l	99
5) Bromomethane	2.989	94	89638	55.292	ug/l	95
6) Chloroethane	3.154	64	95654	51.117	ug/l	96
7) Trichlorofluoromethane	3.524	101	196138	51.819	ug/l	97
8) Diethyl Ether	3.983	74	87405	53.001	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	127498	53.615	ug/l	99
10) Methyl Iodide	4.612	142	164080	53.227	ug/l	97
11) Tert butyl alcohol	5.542	59	207768	262.193	ug/l	99
12) 1,1-Dichloroethene	4.359	96	125461	51.678	ug/l	99
13) Acrolein	4.195	56	60336	240.545	ug/l	98
14) Allyl chloride	5.042	41	203344	50.504	ug/l	98
15) Acrylonitrile	5.736	53	479502	258.885	ug/l	100
16) Acetone	4.448	43	382146	246.750	ug/l	98
17) Carbon Disulfide	4.736	76	339466	50.550	ug/l	100
18) Methyl Acetate	5.042	43	234290	51.912	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	454641	51.720	ug/l	100
20) Methylene Chloride	5.295	84	143862	49.617	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	133535	49.437	ug/l	99
22) Diisopropyl ether	6.689	45	440080	51.853	ug/l	99
23) Vinyl Acetate	6.618	43	1828919	255.055	ug/l	99
24) 1,1-Dichloroethane	6.589	63	251473	51.487	ug/l	98
25) 2-Butanone	7.494	43	644194	255.897	ug/l	99
26) 2,2-Dichloropropane	7.500	77	216678	57.031	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	164985	51.073	ug/l	99
28) Bromochloromethane	7.824	49	108810	45.310	ug/l	99
29) Tetrahydrofuran	7.847	42	420891	256.656	ug/l	100
30) Chloroform	7.977	83	248429	50.933	ug/l	97
31) Cyclohexane	8.265	56	237836	50.212	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	209927	50.603	ug/l	97
36) 1,1-Dichloropropene	8.377	75	181414	52.123	ug/l	99
37) Ethyl Acetate	7.571	43	222090	50.125	ug/l	99
38) Carbon Tetrachloride	8.371	117	179281	52.466	ug/l	98
39) Methylcyclohexane	9.606	83	251231	52.686	ug/l	98
40) Benzene	8.612	78	579667	50.931	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	130903	52.607	ug/l	100
42) 1,2-Dichloroethane	8.677	62	177746	51.489	ug/l	100
43) Isopropyl Acetate	8.694	43	359378	50.536	ug/l	100
44) Trichloroethene	9.359	130	139763	51.788	ug/l	100
45) 1,2-Dichloropropane	9.624	63	142463	51.450	ug/l	99
46) Dibromomethane	9.712	93	97199	52.849	ug/l	98
47) Bromodichloromethane	9.894	83	196104	51.824	ug/l	100
48) Methyl methacrylate	9.688	41	168001	51.328	ug/l	98
49) 1,4-Dioxane	9.706	88	66102	1110.123	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1146622	267.835	ug/l	99
52) Toluene	10.635	92	361963	52.040	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	224839	53.137	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	237774	52.519	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	137998	51.562	ug/l	99
56) Ethyl methacrylate	10.882	69	241649	56.688	ug/l	98
57) 1,3-Dichloropropane	11.165	76	238572	51.386	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	625479	246.006	ug/l	100
59) 2-Hexanone	11.200	43	781717	283.478	ug/l	100
60) Dibromochloromethane	11.359	129	146749	52.627	ug/l	99
61) 1,2-Dibromoethane	11.471	107	142338	51.887	ug/l	99
64) Tetrachloroethene	11.106	164	111409	50.450	ug/l	98
65) Chlorobenzene	11.894	112	391661	50.892	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	129045	52.164	ug/l	99
67) Ethyl Benzene	11.965	91	683879	51.590	ug/l	98
68) m/p-Xylenes	12.071	106	527293	103.912	ug/l	98
69) o-Xylene	12.400	106	254600	52.387	ug/l	100
70) Styrene	12.412	104	438751	52.758	ug/l	99
71) Bromoform	12.582	173	100357	54.751	ug/l #	99
73) Isopropylbenzene	12.694	105	652045	51.823	ug/l	100
74) N-amyl acetate	12.506	43	238355	54.212	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	220643	51.763	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	220957m	53.821	ug/l	
77) Bromobenzene	12.982	156	150950	52.313	ug/l	100
78) n-propylbenzene	13.035	91	801180	52.397	ug/l	100
79) 2-Chlorotoluene	13.123	91	473629	51.650	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	548347	52.787	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	99341	55.702	ug/l	97
82) 4-Chlorotoluene	13.223	91	481403	51.884	ug/l	99
83) tert-Butylbenzene	13.441	119	499519	52.532	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	552333	53.024	ug/l	100
85) sec-Butylbenzene	13.618	105	723986	52.428	ug/l	100
86) p-Isopropyltoluene	13.729	119	606979	53.174	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	290810	51.224	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	298412	51.557	ug/l	100
89) n-Butylbenzene	14.059	91	579636	52.424	ug/l	100
90) Hexachloroethane	14.335	117	102254	52.847	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	280025	51.340	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	50115	49.161	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	181064	51.986	ug/l	99
94) Hexachlorobutadiene	15.500	225	68570	52.843	ug/l	99
95) Naphthalene	15.641	128	674187	52.005	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	174888	50.539	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

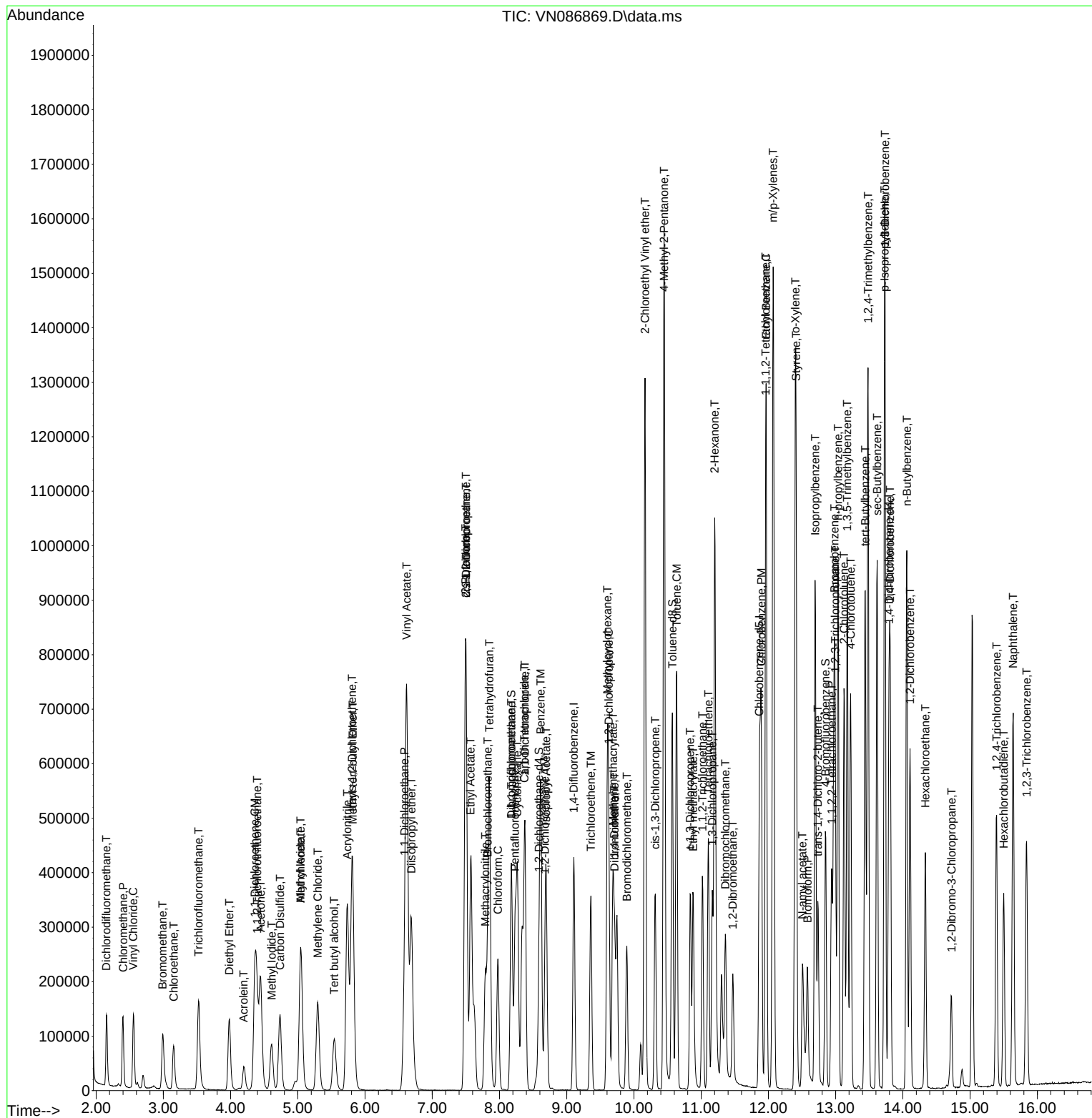
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	0.499	0.551	-10.4	116	0.00
3 P	Chloromethane	0.644	0.637	1.1	112	0.00
4 C	Vinyl Chloride	0.664	0.697	-5.0#	114	0.00
5 T	Bromomethane	0.372	0.411	-10.5	121	0.00
6 T	Chloroethane	0.429	0.439	-2.3	113	0.00
7 T	Trichlorofluoromethane	0.868	0.899	-3.6	113	0.00
8 T	Diethyl Ether	0.378	0.401	-6.1	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.585	-7.3	118	0.00
10 T	Methyl Iodide	0.707	0.752	-6.4	116	0.00
11 T	Tert butyl alcohol	0.182	0.191	-4.9	114	0.00
12 CM	1,1-Dichloroethene	0.557	0.575	-3.2#	113	0.00
13 T	Acrolein	0.057	0.055	3.5	128	0.00
14 T	Allyl chloride	0.923	0.932	-1.0	113	0.00
15 T	Acrylonitrile	0.425	0.440	-3.5	114	0.00
16 T	Acetone	0.355	0.350	1.4	114	0.00
17 T	Carbon Disulfide	1.539	1.556	-1.1	115	0.00
18 T	Methyl Acetate	1.035	1.074	-3.8	115	0.00
19 T	Methyl tert-butyl Ether	2.015	2.084	-3.4	113	0.00
20 T	Methylene Chloride	0.665	0.660	0.8	115	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.612	1.1	113	0.00
22 T	Diisopropyl ether	1.945	2.018	-3.8	114	0.00
23 T	Vinyl Acetate	1.644	1.677	-2.0	111	0.00
24 P	1,1-Dichloroethane	1.120	1.153	-2.9	114	0.00
25 T	2-Butanone	0.577	0.591	-2.4	113	0.00
26 T	2,2-Dichloropropane	0.871	0.993	-14.0	116	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.756	-2.2	114	0.00
28 T	Bromochloromethane	0.550	0.499	9.3	113	0.00
29 T	Tetrahydrofuran	0.376	0.386	-2.7	113	0.00
30 C	Chloroform	1.118	1.139	-1.9#	113	0.00
31 T	Cyclohexane	1.086	1.090	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	0.951	0.962	-1.2	113	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.698	-4.3	147	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.296	0.322	-8.8	153#	0.00
36 T	1,1-Dichloropropene	0.442	0.460	-4.1	115	0.00
37 T	Ethyl Acetate	0.562	0.563	-0.2	109	0.00
38 T	Carbon Tetrachloride	0.433	0.455	-5.1	116	0.00
39 T	Methylcyclohexane	0.605	0.637	-5.3	116	0.00
40 TM	Benzene	1.444	1.471	-1.9	114	0.00
41 T	Methacrylonitrile	0.316	0.332	-5.1	114	0.00
42 TM	1,2-Dichloroethane	0.438	0.451	-3.0	114	0.00
43 T	Isopropyl Acetate	0.902	0.912	-1.1	111	0.00
44 TM	Trichloroethene	0.342	0.355	-3.8	113	0.00
45 C	1,2-Dichloropropane	0.351	0.361	-2.8#	113	0.00
46 T	Dibromomethane	0.233	0.247	-6.0	116	0.00
47 T	Bromodichloromethane	0.480	0.498	-3.8	113	0.00
48 T	Methyl methacrylate	0.415	0.426	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	0.008	0.008	0.0	112	0.00
50 S	Toluene-d8	1.173	1.246	-6.2	151#	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.582	-7.2	113	0.00
52 CM	Toluene	0.882	0.918	-4.1#	114	0.00
53 T	t-1,3-Dichloropropene	0.537	0.570	-6.1	114	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.603	-5.1	114	0.00
55 T	1,1,2-Trichloroethane	0.340	0.350	-2.9	113	0.00
56 T	Ethyl methacrylate	0.541	0.613	-13.3	115	0.00
57 T	1,3-Dichloropropane	0.589	0.605	-2.7	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.317	1.9	120	0.00
59 T	2-Hexanone	0.350	0.397	-13.4	112	0.00
60 T	Dibromochloromethane	0.354	0.372	-5.1	114	0.00
61 T	1,2-Dibromoethane	0.348	0.361	-3.7	114	0.00
62 S	4-Bromofluorobenzene	0.436	0.471	-8.0	151#	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.316	0.319	-0.9	114	0.00
65 PM	Chlorobenzene	1.103	1.122	-1.7	115	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.370	-4.5	115	0.00
67 C	Ethyl Benzene	1.899	1.960	-3.2#	114	0.00
68 T	m/p-Xylenes	0.727	0.756	-4.0	113	0.00
69 T	o-Xylene	0.696	0.730	-4.9	114	0.00
70 T	Styrene	1.192	1.257	-5.5	113	0.00
71 P	Bromoform	0.263	0.288	-9.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.643	3.775	-3.6	114	0.00
74 T	N-amyl acetate	1.273	1.380	-8.4	112	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.278	-3.6	112	0.00
76 T	1,2,3-Trichloropropane	1.189	1.279	-7.6	112	0.00
77 T	Bromobenzene	0.835	0.874	-4.7	114	0.00
78 T	n-propylbenzene	4.427	4.639	-4.8	114	0.00
79 T	2-Chlorotoluene	2.655	2.742	-3.3	113	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.175	-5.6	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.575	-11.4	125	0.00
82 T	4-Chlorotoluene	2.686	2.787	-3.8	114	0.00
83 T	tert-Butylbenzene	2.753	2.892	-5.0	114	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.198	-6.0	113	0.00
85 T	sec-Butylbenzene	3.998	4.192	-4.9	113	0.00
86 T	p-Isopropyltoluene	3.305	3.514	-6.3	114	0.00
87 T	1,3-Dichlorobenzene	1.644	1.684	-2.4	112	0.00
88 T	1,4-Dichlorobenzene	1.676	1.728	-3.1	113	0.00
89 T	n-Butylbenzene	3.201	3.356	-4.8	113	0.00
90 T	Hexachloroethane	0.560	0.592	-5.7	114	0.00
91 T	1,2-Dichlorobenzene	1.579	1.621	-2.7	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.290	1.7	110	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.048	-4.0	112	0.00
94 T	Hexachlorobutadiene	0.376	0.397	-5.6	113	0.00
95 T	Naphthalene	3.753	3.904	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	1.013	-1.1	110	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	50.000	55.286	-10.6	116	0.00
3 P	Chloromethane	50.000	49.505	1.0	112	0.00
4 C	Vinyl Chloride	50.000	52.451	-4.9#	114	0.00
5 T	Bromomethane	50.000	55.292	-10.6	121	0.00
6 T	Chloroethane	50.000	51.117	-2.2	113	0.00
7 T	Trichlorofluoromethane	50.000	51.819	-3.6	113	0.00
8 T	Diethyl Ether	50.000	53.001	-6.0	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.615	-7.2	118	0.00
10 T	Methyl Iodide	50.000	53.227	-6.5	116	0.00
11 T	Tert butyl alcohol	250.000	262.193	-4.9	114	0.00
12 CM	1,1-Dichloroethene	50.000	51.678	-3.4#	113	0.00
13 T	Acrolein	250.000	240.545	3.8	128	0.00
14 T	Allyl chloride	50.000	50.504	-1.0	113	0.00
15 T	Acrylonitrile	250.000	258.885	-3.6	114	0.00
16 T	Acetone	250.000	246.750	1.3	114	0.00
17 T	Carbon Disulfide	50.000	50.550	-1.1	115	0.00
18 T	Methyl Acetate	50.000	51.912	-3.8	115	0.00
19 T	Methyl tert-butyl Ether	50.000	51.720	-3.4	113	0.00
20 T	Methylene Chloride	50.000	49.617	0.8	115	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.437	1.1	113	0.00
22 T	Diisopropyl ether	50.000	51.853	-3.7	114	0.00
23 T	Vinyl Acetate	250.000	255.055	-2.0	111	0.00
24 P	1,1-Dichloroethane	50.000	51.487	-3.0	114	0.00
25 T	2-Butanone	250.000	255.897	-2.4	113	0.00
26 T	2,2-Dichloropropane	50.000	57.031	-14.1	116	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.073	-2.1	114	0.00
28 T	Bromochloromethane	50.000	45.310	9.4	113	0.00
29 T	Tetrahydrofuran	250.000	256.656	-2.7	113	0.00
30 C	Chloroform	50.000	50.933	-1.9#	113	0.00
31 T	Cyclohexane	50.000	50.212	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	50.000	50.603	-1.2	113	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.135	-4.3	147	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	54.416	-8.8	153	0.00
36 T	1,1-Dichloropropene	50.000	52.123	-4.2	115	0.00
37 T	Ethyl Acetate	50.000	50.125	-0.3	109	0.00
38 T	Carbon Tetrachloride	50.000	52.466	-4.9	116	0.00
39 T	Methylcyclohexane	50.000	52.686	-5.4	116	0.00
40 TM	Benzene	50.000	50.931	-1.9	114	0.00
41 T	Methacrylonitrile	50.000	52.607	-5.2	114	0.00
42 TM	1,2-Dichloroethane	50.000	51.489	-3.0	114	0.00
43 T	Isopropyl Acetate	50.000	50.536	-1.1	111	0.00
44 TM	Trichloroethene	50.000	51.788	-3.6	113	0.00
45 C	1,2-Dichloropropane	50.000	51.450	-2.9#	113	0.00
46 T	Dibromomethane	50.000	52.849	-5.7	116	0.00
47 T	Bromodichloromethane	50.000	51.824	-3.6	113	0.00
48 T	Methyl methacrylate	50.000	51.328	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	1110.123	-11.0	112	0.00
50 S	Toluene-d8	50.000	53.129	-6.3	151	0.00
51 T	4-Methyl-2-Pentanone	250.000	267.835	-7.1	113	0.00
52 CM	Toluene	50.000	52.040	-4.1#	114	0.00
53 T	t-1,3-Dichloropropene	50.000	53.137	-6.3	114	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.519	-5.0	114	0.00
55 T	1,1,2-Trichloroethane	50.000	51.562	-3.1	113	0.00
56 T	Ethyl methacrylate	50.000	56.688	-13.4	115	0.00
57 T	1,3-Dichloropropane	50.000	51.386	-2.8	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	246.006	1.6	120	0.00
59 T	2-Hexanone	250.000	283.478	-13.4	112	0.00
60 T	Dibromochloromethane	50.000	52.627	-5.3	114	0.00
61 T	1,2-Dibromoethane	50.000	51.887	-3.8	114	0.00
62 S	4-Bromofluorobenzene	50.000	54.081	-8.2	151	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	50.450	-0.9	114	0.00
65 PM	Chlorobenzene	50.000	50.892	-1.8	115	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.164	-4.3	115	0.00
67 C	Ethyl Benzene	50.000	51.590	-3.2#	114	0.00
68 T	m/p-Xylenes	100.000	103.912	-3.9	113	0.00
69 T	o-Xylene	50.000	52.387	-4.8	114	0.00
70 T	Styrene	50.000	52.758	-5.5	113	0.00
71 P	Bromoform	50.000	54.751	-9.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	51.823	-3.6	114	0.00
74 T	N-amyl acetate	50.000	54.212	-8.4	112	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.763	-3.5	112	0.00
76 T	1,2,3-Trichloropropane	50.000	53.821	-7.6	112	0.00
77 T	Bromobenzene	50.000	52.313	-4.6	114	0.00
78 T	n-propylbenzene	50.000	52.397	-4.8	114	0.00
79 T	2-Chlorotoluene	50.000	51.650	-3.3	113	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.787	-5.6	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.702	-11.4	125	0.00
82 T	4-Chlorotoluene	50.000	51.884	-3.8	114	0.00
83 T	tert-Butylbenzene	50.000	52.532	-5.1	114	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.024	-6.0	113	0.00
85 T	sec-Butylbenzene	50.000	52.428	-4.9	113	0.00
86 T	p-Isopropyltoluene	50.000	53.174	-6.3	114	0.00
87 T	1,3-Dichlorobenzene	50.000	51.224	-2.4	112	0.00
88 T	1,4-Dichlorobenzene	50.000	51.557	-3.1	113	0.00
89 T	n-Butylbenzene	50.000	52.424	-4.8	113	0.00
90 T	Hexachloroethane	50.000	52.847	-5.7	114	0.00
91 T	1,2-Dichlorobenzene	50.000	51.340	-2.7	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.161	1.7	110	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.986	-4.0	112	0.00
94 T	Hexachlorobutadiene	50.000	52.843	-5.7	113	0.00
95 T	Naphthalene	50.000	52.005	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.539	-1.1	110	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: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268

Instrument ID: MSVOA_N Calibration Date/Time: 06/12/2025 10:58

Lab File ID: VN086967.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.576		15.43	20
Chloromethane	0.644	0.587	0.1	-8.85	20
Vinyl Chloride	0.664	0.746		12.35	20
Bromomethane	0.372	0.317		-14.78	20
Chloroethane	0.429	0.484		12.82	20
Trichlorofluoromethane	0.868	0.981		13.02	20
1,1,2-Trichlorotrifluoroethane	0.545	0.621		13.94	20
1,1-Dichloroethene	0.557	0.625		12.21	20
Acetone	0.355	0.373		5.07	20
Carbon Disulfide	1.539	1.568		1.88	20
Methyl tert-butyl Ether	2.015	2.316		14.94	20
Methyl Acetate	1.035	1.190		14.98	20
Methylene Chloride	0.665	0.739		11.13	20
trans-1,2-Dichloroethene	0.619	0.666		7.59	20
1,1-Dichloroethane	1.120	1.268	0.1	13.21	20
Cyclohexane	1.086	1.055		-2.86	20
2-Butanone	0.577	0.613		6.24	20
Carbon Tetrachloride	0.433	0.487		12.47	20
cis-1,2-Dichloroethene	0.740	0.833		12.57	20
Bromochloromethane	0.550	0.496		-9.82	20
Chloroform	1.118	1.268		13.42	20
1,1,1-Trichloroethane	0.951	1.047		10.1	20
Methylcyclohexane	0.605	0.578		-4.46	20
Benzene	1.444	1.600		10.8	20
1,2-Dichloroethane	0.438	0.495		13.01	20
Trichloroethene	0.342	0.380		11.11	20
1,2-Dichloropropane	0.351	0.405		15.39	20
Bromodichloromethane	0.480	0.555		15.63	20
4-Methyl-2-Pentanone	0.543	0.618		13.81	20
Toluene	0.882	0.974		10.43	20
t-1,3-Dichloropropene	0.537	0.627		16.76	20
cis-1,3-Dichloropropene	0.574	0.665		15.85	20
1,1,2-Trichloroethane	0.340	0.395		16.18	20
2-Hexanone	0.350	0.411		17.43	20
Dibromochloromethane	0.354	0.423		19.49	20
1,2-Dibromoethane	0.348	0.400		14.94	20
Tetrachloroethene	0.316	0.332		5.06	20
Chlorobenzene	1.103	1.232	0.3	11.69	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: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268

Instrument ID: MSVOA_N Calibration Date/Time: 06/12/2025 10:58

Lab File ID: VN086967.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	2.097		10.37	20
m/p-Xylenes	0.727	0.811		11.55	20
o-Xylene	0.696	0.792		13.79	20
Styrene	1.192	1.379		15.69	20
Bromoform	0.263	0.329	0.1	25.09	20
Isopropylbenzene	3.643	3.972		9.03	20
1,1,2,2-Tetrachloroethane	1.234	1.442	0.3	16.86	20
1,3-Dichlorobenzene	1.644	1.868		13.63	20
1,4-Dichlorobenzene	1.676	1.888		12.65	20
1,2-Dichlorobenzene	1.579	1.789		13.3	20
1,2-Dibromo-3-Chloropropane	0.295	0.321		8.81	20
1,2,4-Trichlorobenzene	1.008	1.070		6.15	20
1,2,3-Trichlorobenzene	1.002	1.031		2.89	20
1,2-Dichloroethane-d4	0.669	0.666		-0.45	20
Dibromofluoromethane	0.296	0.318		7.43	20
Toluene-d8	1.173	1.170		-0.26	20
4-Bromofluorobenzene	0.436	0.444		1.84	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\VN061225\
 Data File : VN086967.D
 Acq On : 12 Jun 2025 10:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:23:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	185417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	334881	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291913	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	144672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	123469	49.735	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.480%		
35) Dibromofluoromethane	8.171	113	106483	53.655	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	107.320%		
50) Toluene-d8	10.570	98	391763	49.865	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.740%		
62) 4-Bromofluorobenzene	12.847	95	148573	50.900	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.800%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	106709	57.720	ug/l	98
3) Chloromethane	2.395	50	108810	45.579	ug/l	97
4) Vinyl Chloride	2.553	62	138275	56.150	ug/l	100
5) Bromomethane	2.983	94	58697	42.593	ug/l	95
6) Chloroethane	3.147	64	89753	56.423	ug/l	98
7) Trichlorofluoromethane	3.530	101	181868	56.525	ug/l	99
8) Diethyl Ether	3.983	74	80958	57.750	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.400	101	115215	56.996	ug/l	99
10) Methyl Iodide	4.612	142	78889	30.105	ug/l	98
11) Tert butyl alcohol	5.541	59	178010	264.263	ug/l	99
12) 1,1-Dichloroethene	4.365	96	115909	56.164	ug/l	96
13) Acrolein	4.200	56	261341	1225.680	ug/l	100
14) Allyl chloride	5.047	41	183070	53.489	ug/l	96
15) Acrylonitrile	5.736	53	446893	283.838	ug/l	99
16) Acetone	4.447	43	345411	262.370	ug/l	98
17) Carbon Disulfide	4.741	76	290732	50.929	ug/l	99
18) Methyl Acetate	5.041	43	220582	57.496	ug/l	98
19) Methyl tert-butyl Ether	5.818	73	429478	57.476	ug/l	98
20) Methylene Chloride	5.294	84	136978	55.575	ug/l	94
21) trans-1,2-Dichloroethene	5.806	96	123524	53.798	ug/l	93
22) Diisopropyl ether	6.683	45	404134	56.016	ug/l	96
23) Vinyl Acetate	6.618	43	1710420	280.603	ug/l	99
24) 1,1-Dichloroethane	6.583	63	235055	56.615	ug/l	99
25) 2-Butanone	7.494	43	568015	265.435	ug/l	99
26) 2,2-Dichloropropane	7.500	77	200155	61.975	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	154369	56.216	ug/l	100
28) Bromochloromethane	7.824	49	91966	45.051	ug/l	99
29) Tetrahydrofuran	7.847	42	375385	269.283	ug/l	97
30) Chloroform	7.977	83	235157	56.716	ug/l	99
31) Cyclohexane	8.265	56	195573	48.573	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	194080	55.035	ug/l	99
36) 1,1-Dichloropropene	8.377	75	163397	55.253	ug/l	99
37) Ethyl Acetate	7.571	43	214314	56.930	ug/l	99
38) Carbon Tetrachloride	8.371	117	163155	56.196	ug/l	98
39) Methylcyclohexane	9.606	83	193619	47.789	ug/l	97
40) Benzene	8.612	78	535810	55.408	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086967.D
 Acq On : 12 Jun 2025 10:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:23:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	113014	53.455	ug/l	93
42) 1,2-Dichloroethane	8.677	62	165920	56.568	ug/l	100
43) Isopropyl Acetate	8.694	43	332658	55.056	ug/l	98
44) Trichloroethene	9.353	130	127367	55.546	ug/l	99
45) 1,2-Dichloropropane	9.623	63	135691	57.676	ug/l	99
46) Dibromomethane	9.712	93	91491	58.548	ug/l	99
47) Bromodichloromethane	9.888	83	185839	57.801	ug/l	99
48) Methyl methacrylate	9.682	41	151488	54.473	ug/l	97
49) 1,4-Dioxane	9.706	88	56863	1123.948	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	1034245	284.335	ug/l	99
52) Toluene	10.629	92	326256	55.206	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	209818	58.362	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	222616	57.872	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	132313	58.186	ug/l	97
56) Ethyl methacrylate	10.882	69	221650	61.197	ug/l	97
57) 1,3-Dichloropropane	11.165	76	225666	57.208	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	533435	246.931	ug/l	100
59) 2-Hexanone	11.200	43	688773	293.972	ug/l	94
60) Dibromochloromethane	11.359	129	141556	59.748	ug/l	99
61) 1,2-Dibromoethane	11.470	107	134048	57.512	ug/l	99
64) Tetrachloroethene	11.106	164	97041	52.528	ug/l	97
65) Chlorobenzene	11.894	112	359495	55.838	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	120876	58.407	ug/l	99
67) Ethyl Benzene	11.965	91	612202	55.204	ug/l	98
68) m/p-Xylenes	12.070	106	473273	111.485	ug/l	100
69) o-Xylene	12.400	106	231132	56.848	ug/l	98
70) Styrene	12.412	104	402406	57.840	ug/l	99
71) Bromoform	12.582	173	96167	62.714	ug/l #	100
73) Isopropylbenzene	12.694	105	574574	54.516	ug/l	100
74) N-amyl acetate	12.512	43	198248	53.829	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	208578	58.416	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	178423m	51.884	ug/l	
77) Bromobenzene	12.982	156	140436	58.102	ug/l	100
78) n-propylbenzene	13.035	91	690637	53.921	ug/l	99
79) 2-Chlorotoluene	13.123	91	423429	55.125	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	472681	54.321	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	87946	58.870	ug/l	92
82) 4-Chlorotoluene	13.223	91	431259	55.488	ug/l	100
83) tert-Butylbenzene	13.435	119	426578	53.555	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	482611	55.309	ug/l	99
85) sec-Butylbenzene	13.617	105	597724	51.674	ug/l	99
86) p-Isopropyltoluene	13.729	119	502935	52.598	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	270297	56.838	ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	273209	56.350	ug/l	100
89) n-Butylbenzene	14.053	91	460433	49.714	ug/l	100
90) Hexachloroethane	14.335	117	90778	56.009	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	258754	56.635	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	46385	54.321	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	154868	53.083	ug/l	99
94) Hexachlorobutadiene	15.500	225	46332	42.625	ug/l	98
95) Naphthalene	15.641	128	603897	55.611	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	149151	51.455	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086967.D
Acq On : 12 Jun 2025 10:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:23:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

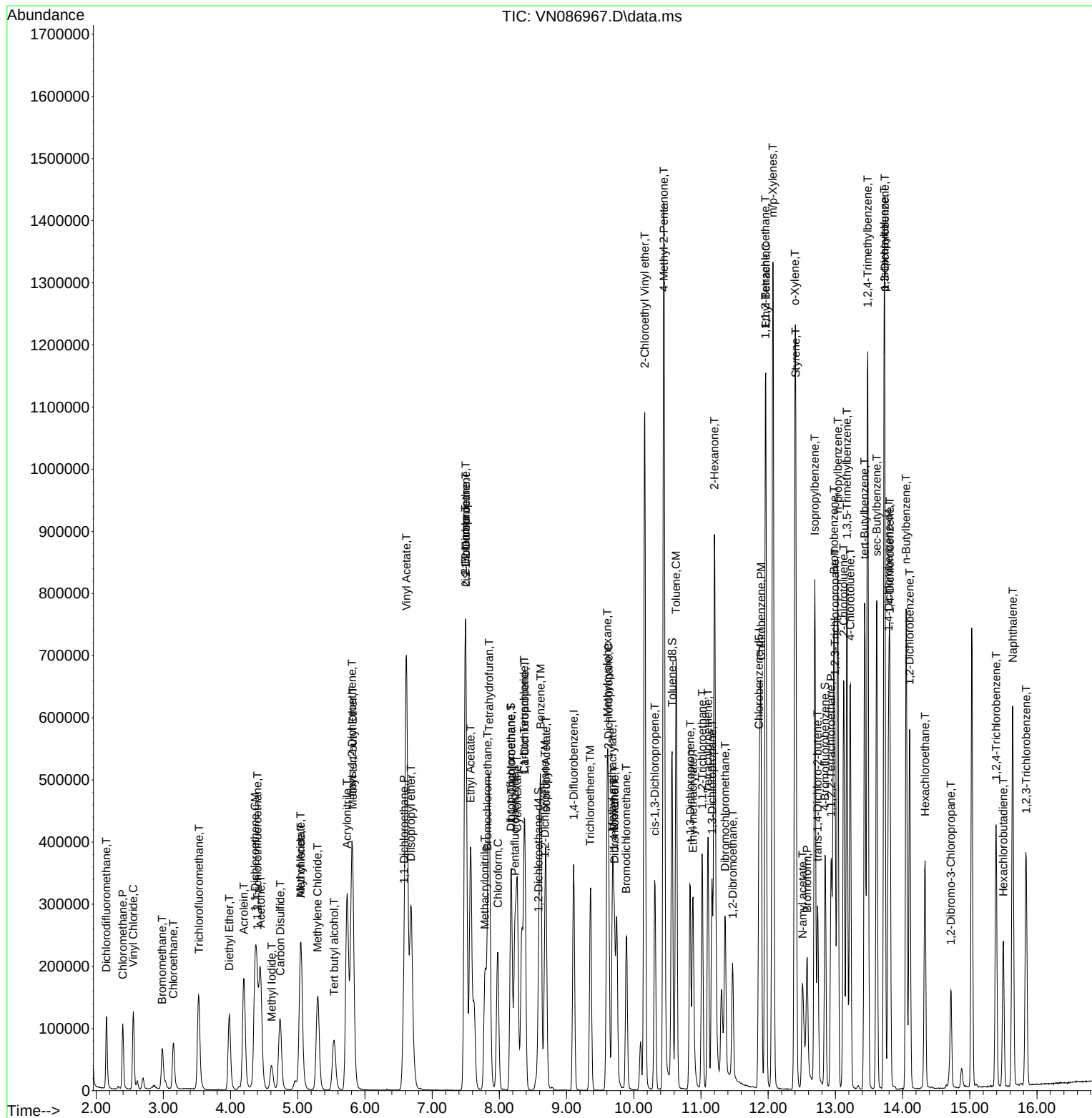
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086967.D
Acq On : 12 Jun 2025 10:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:23:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086967.D
 Acq On : 12 Jun 2025 10:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:23:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	89	0.00
2 T	Dichlorodifluoromethane	0.499	0.576	-15.4	103	0.00
3 P	Chloromethane	0.644	0.587	8.9	88	0.00
4 C	Vinyl Chloride	0.664	0.746	-12.3#	104	0.00
5 T	Bromomethane	0.372	0.317	14.8	79	-0.01
6 T	Chloroethane	0.429	0.484	-12.8	106	0.00
7 T	Trichlorofluoromethane	0.868	0.981	-13.0	105	0.00
8 T	Diethyl Ether	0.378	0.437	-15.6	108	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.621	-13.9	107	0.00
10 T	Methyl Iodide	0.707	0.425	39.9#	56	0.00
11 T	Tert butyl alcohol	0.182	0.192	-5.5	98	0.00
12 CM	1,1-Dichloroethene	0.557	0.625	-12.2#	105	0.00
13 T	Acrolein	0.057	0.282	-394.7#	556#	0.00
14 T	Allyl chloride	0.923	0.987	-6.9	102	0.00
15 T	Acrylonitrile	0.425	0.482	-13.4	106	0.00
16 T	Acetone	0.355	0.373	-5.1	103	0.00
17 T	Carbon Disulfide	1.539	1.568	-1.9	98	0.01
18 T	Methyl Acetate	1.035	1.190	-15.0	108	0.00
19 T	Methyl tert-butyl Ether	2.015	2.316	-14.9	107	0.00
20 T	Methylene Chloride	0.665	0.739	-11.1	109	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.666	-7.6	105	0.00
22 T	Diisopropyl ether	1.945	2.180	-12.1	105	0.00
23 T	Vinyl Acetate	1.644	1.845	-12.2	104	0.00
24 P	1,1-Dichloroethane	1.120	1.268	-13.2	107	0.00
25 T	2-Butanone	0.577	0.613	-6.2	99	0.00
26 T	2,2-Dichloropropane	0.871	1.079	-23.9	107	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.833	-12.6	107	0.00
28 T	Bromochloromethane	0.550	0.496	9.8	95	0.00
29 T	Tetrahydrofuran	0.376	0.405	-7.7	101	0.00
30 C	Chloroform	1.118	1.268	-13.4#	107	0.00
31 T	Cyclohexane	1.086	1.055	2.9	94	0.00
32 T	1,1,1-Trichloroethane	0.951	1.047	-10.1	105	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.666	0.4	119	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35 S	Dibromofluoromethane	0.296	0.318	-7.4	128	0.00
36 T	1,1-Dichloropropene	0.442	0.488	-10.4	103	0.00
37 T	Ethyl Acetate	0.562	0.640	-13.9	106	0.00
38 T	Carbon Tetrachloride	0.433	0.487	-12.5	105	0.00
39 T	Methylcyclohexane	0.605	0.578	4.5	90	0.00
40 TM	Benzene	1.444	1.600	-10.8	105	0.00
41 T	Methacrylonitrile	0.316	0.337	-6.6	99	0.00
42 TM	1,2-Dichloroethane	0.438	0.495	-13.0	107	0.00
43 T	Isopropyl Acetate	0.902	0.993	-10.1	103	0.00
44 TM	Trichloroethene	0.342	0.380	-11.1	103	0.00
45 C	1,2-Dichloropropane	0.351	0.405	-15.4#	108	0.00
46 T	Dibromomethane	0.233	0.273	-17.2	109	0.00
47 T	Bromodichloromethane	0.480	0.555	-15.6	107	0.00
48 T	Methyl methacrylate	0.415	0.452	-8.9	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086967.D
 Acq On : 12 Jun 2025 10:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:23:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	0.008	0.008	0.0	96	0.00
50 S	Toluene-d8	1.173	1.170	0.3	120	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.618	-13.8	102	0.00
52 CM	Toluene	0.882	0.974	-10.4#	103	0.00
53 T	t-1,3-Dichloropropene	0.537	0.627	-16.8	106	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.665	-15.9	107	0.00
55 T	1,1,2-Trichloroethane	0.340	0.395	-16.2	108	0.00
56 T	Ethyl methacrylate	0.541	0.662	-22.4	105	0.00
57 T	1,3-Dichloropropane	0.589	0.674	-14.4	106	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.319	1.2	103	0.00
59 T	2-Hexanone	0.350	0.411	-17.4	99	0.00
60 T	Dibromochloromethane	0.354	0.423	-19.5	110	0.00
61 T	1,2-Dibromoethane	0.348	0.400	-14.9	108	0.00
62 S	4-Bromofluorobenzene	0.436	0.444	-1.8	121	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
64 T	Tetrachloroethene	0.316	0.332	-5.1	99	0.00
65 PM	Chlorobenzene	1.103	1.232	-11.7	106	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.414	-16.9	108	0.00
67 C	Ethyl Benzene	1.899	2.097	-10.4#	102	0.00
68 T	m/p-Xylenes	0.727	0.811	-11.6	101	0.00
69 T	o-Xylene	0.696	0.792	-13.8	103	0.00
70 T	Styrene	1.192	1.379	-15.7	104	0.00
71 P	Bromoform	0.263	0.329	-25.1#	109	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73 T	Isopropylbenzene	3.643	3.972	-9.0	100	0.00
74 T	N-amyl acetate	1.273	1.370	-7.6	93	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.442	-16.9	106	0.00
76 T	1,2,3-Trichloropropane	1.189	1.233	-3.7	91	0.00
77 T	Bromobenzene	0.835	0.971	-16.3	106	0.00
78 T	n-propylbenzene	4.427	4.774	-7.8	98	0.00
79 T	2-Chlorotoluene	2.655	2.927	-10.2	101	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.267	-8.6	97	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.608	-17.8	110	0.00
82 T	4-Chlorotoluene	2.686	2.981	-11.0	102	0.00
83 T	tert-Butylbenzene	2.753	2.949	-7.1	97	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.336	-10.6	99	0.00
85 T	sec-Butylbenzene	3.998	4.132	-3.4	93	0.00
86 T	p-Isopropyltoluene	3.305	3.476	-5.2	94	0.00
87 T	1,3-Dichlorobenzene	1.644	1.868	-13.6	104	0.00
88 T	1,4-Dichlorobenzene	1.676	1.888	-12.6	104	0.00
89 T	n-Butylbenzene	3.201	3.183	0.6	90	0.00
90 T	Hexachloroethane	0.560	0.627	-12.0	101	0.00
91 T	1,2-Dichlorobenzene	1.579	1.789	-13.3	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.321	-8.8	102	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.070	-6.2	95	0.00
94 T	Hexachlorobutadiene	0.376	0.320	14.9	76	0.00
95 T	Naphthalene	3.753	4.174	-11.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086967.D
Acq On : 12 Jun 2025 10:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 13 01:23:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	1.031	-2.9	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086967.D
 Acq On : 12 Jun 2025 10:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:23:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	89	0.00
2 T	Dichlorodifluoromethane	50.000	57.720	-15.4	103	0.00
3 P	Chloromethane	50.000	45.579	8.8	88	0.00
4 C	Vinyl Chloride	50.000	56.150	-12.3#	104	0.00
5 T	Bromomethane	50.000	42.593	14.8	79	-0.01
6 T	Chloroethane	50.000	56.423	-12.8	106	0.00
7 T	Trichlorofluoromethane	50.000	56.525	-13.0	105	0.00
8 T	Diethyl Ether	50.000	57.750	-15.5	108	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	56.996	-14.0	107	0.00
10 T	Methyl Iodide	50.000	30.105	39.8#	56	0.00
11 T	Tert butyl alcohol	250.000	264.263	-5.7	98	0.00
12 CM	1,1-Dichloroethene	50.000	56.164	-12.3#	105	0.00
13 T	Acrolein	250.000	1225.680	-390.3#	556	0.00
14 T	Allyl chloride	50.000	53.489	-7.0	102	0.00
15 T	Acrylonitrile	250.000	283.838	-13.5	106	0.00
16 T	Acetone	250.000	262.370	-4.9	103	0.00
17 T	Carbon Disulfide	50.000	50.929	-1.9	98	0.01
18 T	Methyl Acetate	50.000	57.496	-15.0	108	0.00
19 T	Methyl tert-butyl Ether	50.000	57.476	-15.0	107	0.00
20 T	Methylene Chloride	50.000	55.575	-11.2	109	0.00
21 T	trans-1,2-Dichloroethene	50.000	53.798	-7.6	105	0.00
22 T	Diisopropyl ether	50.000	56.016	-12.0	105	0.00
23 T	Vinyl Acetate	250.000	280.603	-12.2	104	0.00
24 P	1,1-Dichloroethane	50.000	56.615	-13.2	107	0.00
25 T	2-Butanone	250.000	265.435	-6.2	99	0.00
26 T	2,2-Dichloropropane	50.000	61.975	-24.0	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	56.216	-12.4	107	0.00
28 T	Bromochloromethane	50.000	45.051	9.9	95	0.00
29 T	Tetrahydrofuran	250.000	269.283	-7.7	101	0.00
30 C	Chloroform	50.000	56.716	-13.4#	107	0.00
31 T	Cyclohexane	50.000	48.573	2.9	94	0.00
32 T	1,1,1-Trichloroethane	50.000	55.035	-10.1	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.735	0.5	119	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35 S	Dibromofluoromethane	50.000	53.655	-7.3	128	0.00
36 T	1,1-Dichloropropene	50.000	55.253	-10.5	103	0.00
37 T	Ethyl Acetate	50.000	56.930	-13.9	106	0.00
38 T	Carbon Tetrachloride	50.000	56.196	-12.4	105	0.00
39 T	Methylcyclohexane	50.000	47.789	4.4	90	0.00
40 TM	Benzene	50.000	55.408	-10.8	105	0.00
41 T	Methacrylonitrile	50.000	53.455	-6.9	99	0.00
42 TM	1,2-Dichloroethane	50.000	56.568	-13.1	107	0.00
43 T	Isopropyl Acetate	50.000	55.056	-10.1	103	0.00
44 TM	Trichloroethene	50.000	55.546	-11.1	103	0.00
45 C	1,2-Dichloropropane	50.000	57.676	-15.4#	108	0.00
46 T	Dibromomethane	50.000	58.548	-17.1	109	0.00
47 T	Bromodichloromethane	50.000	57.801	-15.6	107	0.00
48 T	Methyl methacrylate	50.000	54.473	-8.9	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086967.D
 Acq On : 12 Jun 2025 10:58
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:23:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	1123.948	-12.4	96	0.00
50 S	Toluene-d8	50.000	49.865	0.3	120	0.00
51 T	4-Methyl-2-Pentanone	250.000	284.335	-13.7	102	0.00
52 CM	Toluene	50.000	55.206	-10.4#	103	0.00
53 T	t-1,3-Dichloropropene	50.000	58.362	-16.7	106	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.872	-15.7	107	0.00
55 T	1,1,2-Trichloroethane	50.000	58.186	-16.4	108	0.00
56 T	Ethyl methacrylate	50.000	61.197	-22.4	105	0.00
57 T	1,3-Dichloropropane	50.000	57.208	-14.4	106	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	246.931	1.2	103	0.00
59 T	2-Hexanone	250.000	293.972	-17.6	99	0.00
60 T	Dibromochloromethane	50.000	59.748	-19.5	110	0.00
61 T	1,2-Dibromoethane	50.000	57.512	-15.0	108	0.00
62 S	4-Bromofluorobenzene	50.000	50.900	-1.8	121	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	88	0.00
64 T	Tetrachloroethene	50.000	52.528	-5.1	99	0.00
65 PM	Chlorobenzene	50.000	55.838	-11.7	106	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	58.407	-16.8	108	0.00
67 C	Ethyl Benzene	50.000	55.204	-10.4#	102	0.00
68 T	m/p-Xylenes	100.000	111.485	-11.5	101	0.00
69 T	o-Xylene	50.000	56.848	-13.7	103	0.00
70 T	Styrene	50.000	57.840	-15.7	104	0.00
71 P	Bromoform	50.000	62.714	-25.4#	109	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73 T	Isopropylbenzene	50.000	54.516	-9.0	100	0.00
74 T	N-amyl acetate	50.000	53.829	-7.7	93	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	58.416	-16.8	106	0.00
76 T	1,2,3-Trichloropropane	50.000	51.884	-3.8	91	0.00
77 T	Bromobenzene	50.000	58.102	-16.2	106	0.00
78 T	n-propylbenzene	50.000	53.921	-7.8	98	0.00
79 T	2-Chlorotoluene	50.000	55.125	-10.3	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.321	-8.6	97	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	58.870	-17.7	110	0.00
82 T	4-Chlorotoluene	50.000	55.488	-11.0	102	0.00
83 T	tert-Butylbenzene	50.000	53.555	-7.1	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	55.309	-10.6	99	0.00
85 T	sec-Butylbenzene	50.000	51.674	-3.3	93	0.00
86 T	p-Isopropyltoluene	50.000	52.598	-5.2	94	0.00
87 T	1,3-Dichlorobenzene	50.000	56.838	-13.7	104	0.00
88 T	1,4-Dichlorobenzene	50.000	56.350	-12.7	104	0.00
89 T	n-Butylbenzene	50.000	49.714	0.6	90	0.00
90 T	Hexachloroethane	50.000	56.009	-12.0	101	0.00
91 T	1,2-Dichlorobenzene	50.000	56.635	-13.3	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	54.321	-8.6	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.083	-6.2	95	0.00
94 T	Hexachlorobutadiene	50.000	42.625	14.8	76	0.00
95 T	Naphthalene	50.000	55.611	-11.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086967.D
Acq On : 12 Jun 2025 10:58
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 13 01:23:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	51.455	-2.9	94	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: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268

Instrument ID: MSVOA_N Calibration Date/Time: 06/13/2025 12:52

Lab File ID: VN086996.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.494		-1	20
Chloromethane	0.644	0.562	0.1	-12.73	20
Vinyl Chloride	0.664	0.695		4.67	20
Bromomethane	0.372	0.351		-5.64	20
Chloroethane	0.429	0.449		4.66	20
Trichlorofluoromethane	0.868	0.867		-0.12	20
1,1,2-Trichlorotrifluoroethane	0.545	0.537		-1.47	20
1,1-Dichloroethene	0.557	0.581		4.31	20
Acetone	0.355	0.346		-2.54	20
Carbon Disulfide	1.539	1.720		11.76	20
Methyl tert-butyl Ether	2.015	2.241		11.22	20
Methyl Acetate	1.035	0.870		-15.94	20
Methylene Chloride	0.665	0.715		7.52	20
trans-1,2-Dichloroethene	0.619	0.648		4.68	20
1,1-Dichloroethane	1.120	1.168	0.1	4.29	20
Cyclohexane	1.086	0.955		-12.06	20
2-Butanone	0.577	0.570		-1.21	20
Carbon Tetrachloride	0.433	0.421		-2.77	20
cis-1,2-Dichloroethene	0.740	0.814		10	20
Bromochloromethane	0.550	0.601		9.27	20
Chloroform	1.118	1.162		3.94	20
1,1,1-Trichloroethane	0.951	0.927		-2.52	20
Methylcyclohexane	0.605	0.537		-11.24	20
Benzene	1.444	1.500		3.88	20
1,2-Dichloroethane	0.438	0.467		6.62	20
Trichloroethene	0.342	0.362		5.85	20
1,2-Dichloropropane	0.351	0.370		5.41	20
Bromodichloromethane	0.480	0.515		7.29	20
4-Methyl-2-Pentanone	0.543	0.558		2.76	20
Toluene	0.882	0.929		5.33	20
t-1,3-Dichloropropene	0.537	0.613		14.15	20
cis-1,3-Dichloropropene	0.574	0.640		11.5	20
1,1,2-Trichloroethane	0.340	0.373		9.71	20
2-Hexanone	0.350	0.375		7.14	20
Dibromochloromethane	0.354	0.405		14.41	20
1,2-Dibromoethane	0.348	0.398		14.37	20
Tetrachloroethene	0.316	0.312		-1.27	20
Chlorobenzene	1.103	1.165	0.3	5.62	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: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268
 Instrument ID: MSVOA_N Calibration Date/Time: 06/13/2025 12:52
 Lab File ID: VN086996.D Init. Calib. Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	1.898		-0.1	20
m/p-Xylenes	0.727	0.748		2.89	20
o-Xylene	0.696	0.743		6.75	20
Styrene	1.192	1.276		7.05	20
Bromoform	0.263	0.307	0.1	16.73	20
Isopropylbenzene	3.643	3.469		-4.78	20
1,1,2,2-Tetrachloroethane	1.234	1.316	0.3	6.64	20
1,3-Dichlorobenzene	1.644	1.702		3.53	20
1,4-Dichlorobenzene	1.676	1.762		5.13	20
1,2-Dichlorobenzene	1.579	1.647		4.31	20
1,2-Dibromo-3-Chloropropane	0.295	0.293		-0.68	20
1,2,4-Trichlorobenzene	1.008	0.965		-4.27	20
1,2,3-Trichlorobenzene	1.002	0.923		-7.88	20
1,2-Dichloroethane-d4	0.669	0.665		-0.6	20
Dibromofluoromethane	0.296	0.318		7.43	20
Toluene-d8	1.173	1.131		-3.58	20
4-Bromofluorobenzene	0.436	0.446		2.29	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\VN061325\
 Data File : VN086996.D
 Acq On : 13 Jun 2025 12:52
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/16/2025
 Supervised By :Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	190412	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	349185	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	154974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	126564	49.645	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.280%		
35) Dibromofluoromethane	8.171	113	110945	53.613	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	107.220%		
50) Toluene-d8	10.571	98	395054	48.224	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.440%		
62) 4-Bromofluorobenzene	12.847	95	155769	51.180	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.360%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	94130	49.581	ug/l	99
3) Chloromethane	2.395	50	106972	43.634	ug/l	95
4) Vinyl Chloride	2.553	62	132265	52.300	ug/l	98
5) Bromomethane	2.989	94	66850	47.236	ug/l	91
6) Chloroethane	3.153	64	85416	52.288	ug/l	97
7) Trichlorofluoromethane	3.524	101	165154	49.983	ug/l	98
8) Diethyl Ether	3.983	74	85377	59.305	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.400	101	102200	49.231	ug/l	99
10) Methyl Iodide	4.618	142	81332	30.223	ug/l	96
11) Tert butyl alcohol	5.542	59	179272	259.155	ug/l	98
12) 1,1-Dichloroethene	4.365	96	110621	52.196	ug/l	89
13) Acrolein	4.200	56	29452	134.505	ug/l	99
14) Allyl chloride	5.047	41	167560	47.673	ug/l	95
15) Acrylonitrile	5.736	53	429249	265.480	ug/l	100
16) Acetone	4.447	43	329234	243.522	ug/l	96
17) Carbon Disulfide	4.742	76	327418	55.851	ug/l	100
18) Methyl Acetate	5.047	43	165652	42.045	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	426708	55.607	ug/l	100
20) Methylene Chloride	5.294	84	136185	53.804	ug/l	93
21) trans-1,2-Dichloroethene	5.806	96	123359	52.316	ug/l	97
22) Diisopropyl ether	6.689	45	372100	50.223	ug/l	96
23) Vinyl Acetate	6.618	43	1729112	276.228	ug/l	97
24) 1,1-Dichloroethane	6.588	63	222402	52.162	ug/l	100
25) 2-Butanone	7.494	43	542418	246.825	ug/l	96
26) 2,2-Dichloropropane	7.500	77	181352	54.680	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	154905	54.931	ug/l	96
28) Bromochloromethane	7.824	49	114442	54.591	ug/l	90
29) Tetrahydrofuran	7.847	42	358784	250.623	ug/l	93
30) Chloroform	7.977	83	221340	51.983	ug/l	100
31) Cyclohexane	8.265	56	181882	43.987	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	176440	48.720	ug/l	98
36) 1,1-Dichloropropene	8.383	75	154064	49.963	ug/l	99
37) Ethyl Acetate	7.571	43	207704	52.914	ug/l	99
38) Carbon Tetrachloride	8.371	117	147019	48.564	ug/l	96
39) Methylcyclohexane	9.606	83	187509	44.385	ug/l	95
40) Benzene	8.612	78	523742	51.942	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN086996.D
 Acq On : 13 Jun 2025 12:52
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2025
 Supervised By : Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	107515	48.771	ug/l	92
42) 1,2-Dichloroethane	8.677	62	163016	53.302	ug/l	99
43) Isopropyl Acetate	8.694	43	315339	50.052	ug/l	95
44) Trichloroethene	9.359	130	126250	52.804	ug/l	97
45) 1,2-Dichloropropane	9.624	63	129173	52.657	ug/l	97
46) Dibromomethane	9.712	93	92427	56.724	ug/l	98
47) Bromodichloromethane	9.894	83	179817	53.637	ug/l	99
48) Methyl methacrylate	9.682	41	144695	49.899	ug/l	93
49) 1,4-Dioxane	9.700	88	60881	1154.073	ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	974766	257.005	ug/l	96
52) Toluene	10.629	92	324520	52.663	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	213932	57.068	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	223518	55.726	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	130409	55.000	ug/l	98
56) Ethyl methacrylate	10.882	69	221967	58.775	ug/l	93
57) 1,3-Dichloropropane	11.165	76	225149	54.739	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	640810	284.484	ug/l	97
59) 2-Hexanone	11.200	43	655260	268.212	ug/l	91
60) Dibromochloromethane	11.359	129	141550	57.298	ug/l	99
61) 1,2-Dibromoethane	11.471	107	138863	57.138	ug/l	99
64) Tetrachloroethene	11.106	164	97092	49.232	ug/l	94
65) Chlorobenzene	11.894	112	363108	52.832	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	118773	53.761	ug/l	99
67) Ethyl Benzene	11.965	91	591507	49.965	ug/l	99
68) m/p-Xylenes	12.070	106	466007	102.831	ug/l	99
69) o-Xylene	12.400	106	231655	53.373	ug/l	96
70) Styrene	12.412	104	397750	53.555	ug/l	99
71) Bromoform	12.576	173	95755	58.496	ug/l #	98
73) Isopropylbenzene	12.694	105	537619	47.619	ug/l	99
74) N-amyl acetate	12.512	43	194530	49.308	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	203942	53.321	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	178162m	48.364	ug/l	
77) Bromobenzene	12.982	156	141660	54.712	ug/l	95
78) n-propylbenzene	13.035	91	639643	46.620	ug/l	98
79) 2-Chlorotoluene	13.123	91	404220	49.126	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	454100	48.717	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	87402	54.616	ug/l	95
82) 4-Chlorotoluene	13.223	91	417942	50.200	ug/l	99
83) tert-Butylbenzene	13.435	119	392634	46.017	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	463629	49.602	ug/l	98
85) sec-Butylbenzene	13.612	105	540317	43.606	ug/l	99
86) p-Isopropyltoluene	13.729	119	462226	45.127	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	263729	51.771	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	273095	52.583	ug/l	99
89) n-Butylbenzene	14.053	91	413779	41.707	ug/l	100
90) Hexachloroethane	14.335	117	80241	46.217	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	255209	52.145	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	45388	49.620	ug/l	92
93) 1,2,4-Trichlorobenzene	15.388	180	149493	47.834	ug/l	99
94) Hexachlorobutadiene	15.500	225	42985	36.917	ug/l	99
95) Naphthalene	15.635	128	604305	51.949	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	142985	46.049	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086996.D
Acq On : 13 Jun 2025 12:52
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:25:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

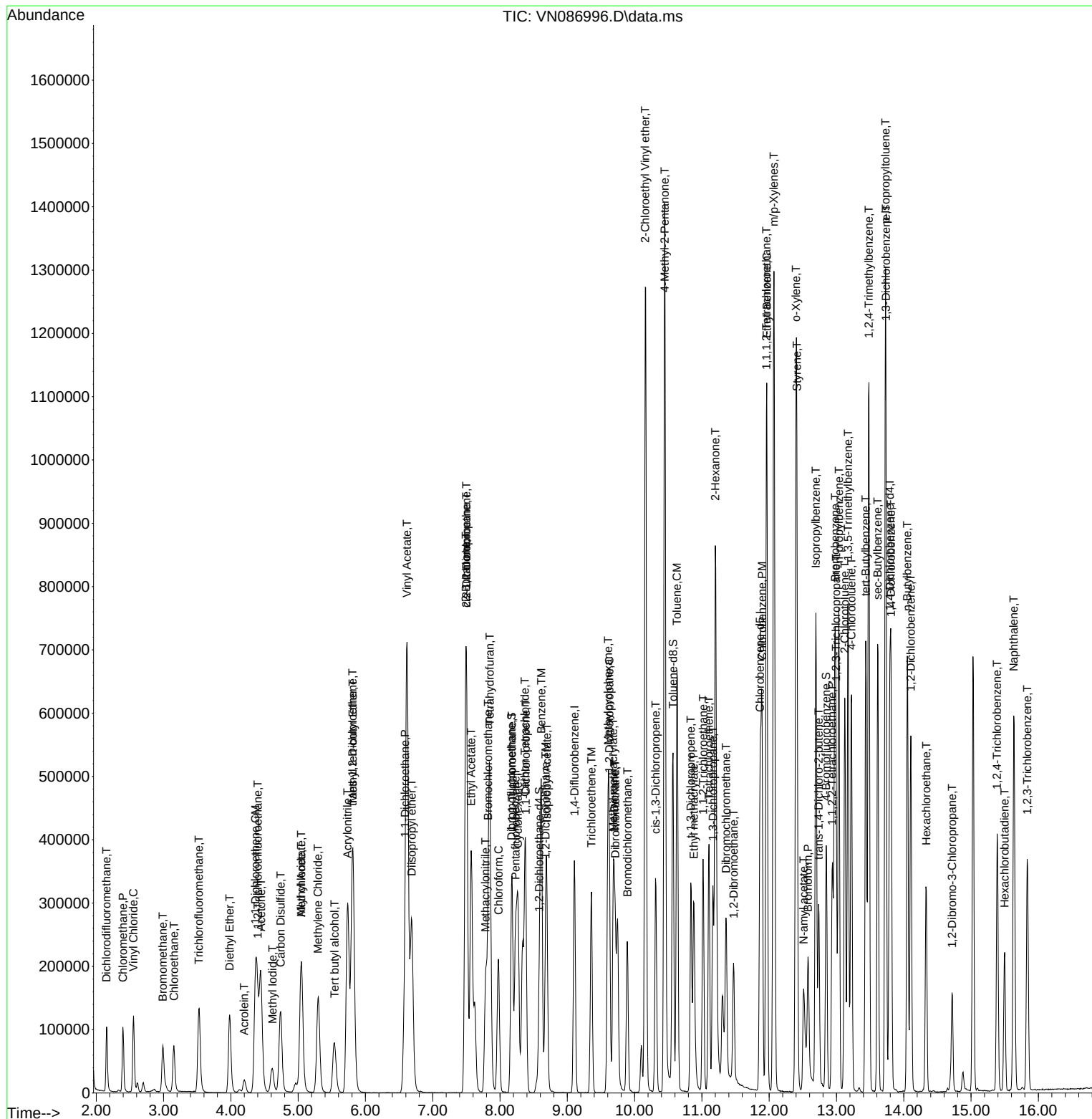
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN086996.D
 Acq On : 13 Jun 2025 12:52
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 14 00:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	92	0.00
2 T	Dichlorodifluoromethane	0.499	0.494	1.0	91	0.00
3 P	Chloromethane	0.644	0.562	12.7	86	0.00
4 C	Vinyl Chloride	0.664	0.695	-4.7#	100	0.00
5 T	Bromomethane	0.372	0.351	5.6	90	0.00
6 T	Chloroethane	0.429	0.449	-4.7	101	0.00
7 T	Trichlorofluoromethane	0.868	0.867	0.1	96	0.00
8 T	Diethyl Ether	0.378	0.448	-18.5	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.537	1.5	95	0.00
10 T	Methyl Iodide	0.707	0.427	39.6#	57	0.01
11 T	Tert butyl alcohol	0.182	0.188	-3.3	98	0.00
12 CM	1,1-Dichloroethene	0.557	0.581	-4.3#	100	0.00
13 T	Acrolein	0.057	0.031	45.6#	63	0.00
14 T	Allyl chloride	0.923	0.880	4.7	93	0.00
15 T	Acrylonitrile	0.425	0.451	-6.1	102	0.00
16 T	Acetone	0.355	0.346	2.5	99	0.00
17 T	Carbon Disulfide	1.539	1.720	-11.8	111	0.01
18 T	Methyl Acetate	1.035	0.870	15.9	81	0.00
19 T	Methyl tert-butyl Ether	2.015	2.241	-11.2	106	0.00
20 T	Methylene Chloride	0.665	0.715	-7.5	109	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.648	-4.7	105	0.00
22 T	Diisopropyl ether	1.945	1.954	-0.5	97	0.00
23 T	Vinyl Acetate	1.644	1.816	-10.5	105	0.00
24 P	1,1-Dichloroethane	1.120	1.168	-4.3	101	0.00
25 T	2-Butanone	0.577	0.570	1.2	95	0.00
26 T	2,2-Dichloropropane	0.871	0.952	-9.3	97	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.814	-10.0	107	0.00
28 T	Bromochloromethane	0.550	0.601	-9.3	118	0.00
29 T	Tetrahydrofuran	0.376	0.377	-0.3	97	0.00
30 C	Chloroform	1.118	1.162	-3.9#	101	0.00
31 T	Cyclohexane	1.086	0.955	12.1	87	0.00
32 T	1,1,1-Trichloroethane	0.951	0.927	2.5	95	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.665	0.6	122	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.296	0.318	-7.4	134	0.00
36 T	1,1-Dichloropropene	0.442	0.441	0.2	97	0.00
37 T	Ethyl Acetate	0.562	0.595	-5.9	102	0.00
38 T	Carbon Tetrachloride	0.433	0.421	2.8	95	0.00
39 T	Methylcyclohexane	0.605	0.537	11.2	87	0.00
40 TM	Benzene	1.444	1.500	-3.9	103	0.00
41 T	Methacrylonitrile	0.316	0.308	2.5	94	0.00
42 TM	1,2-Dichloroethane	0.438	0.467	-6.6	105	0.00
43 T	Isopropyl Acetate	0.902	0.903	-0.1	98	0.00
44 TM	Trichloroethene	0.342	0.362	-5.8	102	0.00
45 C	1,2-Dichloropropane	0.351	0.370	-5.4#	103	0.00
46 T	Dibromomethane	0.233	0.265	-13.7	110	0.00
47 T	Bromodichloromethane	0.480	0.515	-7.3	104	0.00
48 T	Methyl methacrylate	0.415	0.414	0.2	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN086996.D
 Acq On : 13 Jun 2025 12:52
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 14 00:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	0.008	0.009	-12.5	103	0.00
50 S	Toluene-d8	1.173	1.131	3.6	121	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.558	-2.8	96	0.00
52 CM	Toluene	0.882	0.929	-5.3#	103	0.00
53 T	t-1,3-Dichloropropene	0.537	0.613	-14.2	108	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.640	-11.5	107	0.00
55 T	1,1,2-Trichloroethane	0.340	0.373	-9.7	107	0.00
56 T	Ethyl methacrylate	0.541	0.636	-17.6	105	0.00
57 T	1,3-Dichloropropane	0.589	0.645	-9.5	106	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.367	-13.6	123	0.00
59 T	2-Hexanone	0.350	0.375	-7.1	94	0.00
60 T	Dibromochloromethane	0.354	0.405	-14.4	110	0.00
61 T	1,2-Dibromoethane	0.348	0.398	-14.4	112	0.00
62 S	4-Bromofluorobenzene	0.436	0.446	-2.3	127	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64 T	Tetrachloroethene	0.316	0.312	1.3	99	0.00
65 PM	Chlorobenzene	1.103	1.165	-5.6	107	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.381	-7.6	106	0.00
67 C	Ethyl Benzene	1.899	1.898	0.1#	99	0.00
68 T	m/p-Xylenes	0.727	0.748	-2.9	100	0.00
69 T	o-Xylene	0.696	0.743	-6.8	103	0.00
70 T	Styrene	1.192	1.276	-7.0	103	0.00
71 P	Bromoform	0.263	0.307	-16.7	109	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
73 T	Isopropylbenzene	3.643	3.469	4.8	94	0.00
74 T	N-amyl acetate	1.273	1.255	1.4	92	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.316	-6.6	103	0.00
76 T	1,2,3-Trichloropropane	1.189	1.150	3.3	91	0.00
77 T	Bromobenzene	0.835	0.914	-9.5	107	0.00
78 T	n-propylbenzene	4.427	4.127	6.8	91	0.00
79 T	2-Chlorotoluene	2.655	2.608	1.8	96	0.00
80 T	1,3,5-Trimethylbenzene	3.007	2.930	2.6	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.564	-9.3	110	0.00
82 T	4-Chlorotoluene	2.686	2.697	-0.4	99	0.00
83 T	tert-Butylbenzene	2.753	2.534	8.0	90	0.00
84 T	1,2,4-Trimethylbenzene	3.016	2.992	0.8	95	0.00
85 T	sec-Butylbenzene	3.998	3.487	12.8	84	0.00
86 T	p-Isopropyltoluene	3.305	2.983	9.7	87	0.00
87 T	1,3-Dichlorobenzene	1.644	1.702	-3.5	101	0.00
88 T	1,4-Dichlorobenzene	1.676	1.762	-5.1	104	0.00
89 T	n-Butylbenzene	3.201	2.670	16.6	81	0.00
90 T	Hexachloroethane	0.560	0.518	7.5	89	0.00
91 T	1,2-Dichlorobenzene	1.579	1.647	-4.3	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.293	0.7	100	0.00
93 T	1,2,4-Trichlorobenzene	1.008	0.965	4.3	92	0.00
94 T	Hexachlorobutadiene	0.376	0.277	26.3#	71	0.00
95 T	Naphthalene	3.753	3.899	-3.9	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086996.D
Acq On : 13 Jun 2025 12:52
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 14 00:25:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	0.923	7.9	90	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN086996.D
 Acq On : 13 Jun 2025 12:52
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 14 00:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	92	0.00
2 T	Dichlorodifluoromethane	50.000	49.581	0.8	91	0.00
3 P	Chloromethane	50.000	43.634	12.7	86	0.00
4 C	Vinyl Chloride	50.000	52.300	-4.6#	100	0.00
5 T	Bromomethane	50.000	47.236	5.5	90	0.00
6 T	Chloroethane	50.000	52.288	-4.6	101	0.00
7 T	Trichlorofluoromethane	50.000	49.983	0.0	96	0.00
8 T	Diethyl Ether	50.000	59.305	-18.6	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.231	1.5	95	0.00
10 T	Methyl Iodide	50.000	30.223	39.6#	57	0.01
11 T	Tert butyl alcohol	250.000	259.155	-3.7	98	0.00
12 CM	1,1-Dichloroethene	50.000	52.196	-4.4#	100	0.00
13 T	Acrolein	250.000	134.505	46.2#	63	0.00
14 T	Allyl chloride	50.000	47.673	4.7	93	0.00
15 T	Acrylonitrile	250.000	265.480	-6.2	102	0.00
16 T	Acetone	250.000	243.522	2.6	99	0.00
17 T	Carbon Disulfide	50.000	55.851	-11.7	111	0.01
18 T	Methyl Acetate	50.000	42.045	15.9	81	0.00
19 T	Methyl tert-butyl Ether	50.000	55.607	-11.2	106	0.00
20 T	Methylene Chloride	50.000	53.804	-7.6	109	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.316	-4.6	105	0.00
22 T	Diisopropyl ether	50.000	50.223	-0.4	97	0.00
23 T	Vinyl Acetate	250.000	276.228	-10.5	105	0.00
24 P	1,1-Dichloroethane	50.000	52.162	-4.3	101	0.00
25 T	2-Butanone	250.000	246.825	1.3	95	0.00
26 T	2,2-Dichloropropane	50.000	54.680	-9.4	97	0.00
27 T	cis-1,2-Dichloroethene	50.000	54.931	-9.9	107	0.00
28 T	Bromochloromethane	50.000	54.591	-9.2	118	0.00
29 T	Tetrahydrofuran	250.000	250.623	-0.2	97	0.00
30 C	Chloroform	50.000	51.983	-4.0#	101	0.00
31 T	Cyclohexane	50.000	43.987	12.0	87	0.00
32 T	1,1,1-Trichloroethane	50.000	48.720	2.6	95	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.645	0.7	122	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	53.613	-7.2	134	0.00
36 T	1,1-Dichloropropene	50.000	49.963	0.1	97	0.00
37 T	Ethyl Acetate	50.000	52.914	-5.8	102	0.00
38 T	Carbon Tetrachloride	50.000	48.564	2.9	95	0.00
39 T	Methylcyclohexane	50.000	44.385	11.2	87	0.00
40 TM	Benzene	50.000	51.942	-3.9	103	0.00
41 T	Methacrylonitrile	50.000	48.771	2.5	94	0.00
42 TM	1,2-Dichloroethane	50.000	53.302	-6.6	105	0.00
43 T	Isopropyl Acetate	50.000	50.052	-0.1	98	0.00
44 TM	Trichloroethene	50.000	52.804	-5.6	102	0.00
45 C	1,2-Dichloropropane	50.000	52.657	-5.3#	103	0.00
46 T	Dibromomethane	50.000	56.724	-13.4	110	0.00
47 T	Bromodichloromethane	50.000	53.637	-7.3	104	0.00
48 T	Methyl methacrylate	50.000	49.899	0.2	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN086996.D
 Acq On : 13 Jun 2025 12:52
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 14 00:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	1154.073	-15.4	103	0.00
50 S	Toluene-d8	50.000	48.224	3.6	121	0.00
51 T	4-Methyl-2-Pentanone	250.000	257.005	-2.8	96	0.00
52 CM	Toluene	50.000	52.663	-5.3#	103	0.00
53 T	t-1,3-Dichloropropene	50.000	57.068	-14.1	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.726	-11.5	107	0.00
55 T	1,1,2-Trichloroethane	50.000	55.000	-10.0	107	0.00
56 T	Ethyl methacrylate	50.000	58.775	-17.5	105	0.00
57 T	1,3-Dichloropropane	50.000	54.739	-9.5	106	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	284.484	-13.8	123	0.00
59 T	2-Hexanone	250.000	268.212	-7.3	94	0.00
60 T	Dibromochloromethane	50.000	57.298	-14.6	110	0.00
61 T	1,2-Dibromoethane	50.000	57.138	-14.3	112	0.00
62 S	4-Bromofluorobenzene	50.000	51.180	-2.4	127	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64 T	Tetrachloroethene	50.000	49.232	1.5	99	0.00
65 PM	Chlorobenzene	50.000	52.832	-5.7	107	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.761	-7.5	106	0.00
67 C	Ethyl Benzene	50.000	49.965	0.1#	99	0.00
68 T	m/p-Xylenes	100.000	102.831	-2.8	100	0.00
69 T	o-Xylene	50.000	53.373	-6.7	103	0.00
70 T	Styrene	50.000	53.555	-7.1	103	0.00
71 P	Bromoform	50.000	58.496	-17.0	109	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	93	0.00
73 T	Isopropylbenzene	50.000	47.619	4.8	94	0.00
74 T	N-ethyl acetate	50.000	49.308	1.4	92	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.321	-6.6	103	0.00
76 T	1,2,3-Trichloropropane	50.000	48.364	3.3	91	0.00
77 T	Bromobenzene	50.000	54.712	-9.4	107	0.00
78 T	n-propylbenzene	50.000	46.620	6.8	91	0.00
79 T	2-Chlorotoluene	50.000	49.126	1.7	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.717	2.6	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	54.616	-9.2	110	0.00
82 T	4-Chlorotoluene	50.000	50.200	-0.4	99	0.00
83 T	tert-Butylbenzene	50.000	46.017	8.0	90	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.602	0.8	95	0.00
85 T	sec-Butylbenzene	50.000	43.606	12.8	84	0.00
86 T	p-Isopropyltoluene	50.000	45.127	9.7	87	0.00
87 T	1,3-Dichlorobenzene	50.000	51.771	-3.5	101	0.00
88 T	1,4-Dichlorobenzene	50.000	52.583	-5.2	104	0.00
89 T	n-Butylbenzene	50.000	41.707	16.6	81	0.00
90 T	Hexachloroethane	50.000	46.217	7.6	89	0.00
91 T	1,2-Dichlorobenzene	50.000	52.145	-4.3	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.620	0.8	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.834	4.3	92	0.00
94 T	Hexachlorobutadiene	50.000	36.917	26.2#	71	0.00
95 T	Naphthalene	50.000	51.949	-3.9	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086996.D
Acq On : 13 Jun 2025 12:52
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 14 00:25:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.049	7.9	90	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: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268

Instrument ID: MSVOA_N Calibration Date/Time: 06/16/2025 09:48

Lab File ID: VN087017.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.569		14.03	20
Chloromethane	0.644	0.574	0.1	-10.87	20
Vinyl Chloride	0.664	0.777		17.02	20
Bromomethane	0.372	0.322		-13.44	20
Chloroethane	0.429	0.487		13.52	20
Trichlorofluoromethane	0.868	0.959		10.48	20
1,1,2-Trichlorotrifluoroethane	0.545	0.599		9.91	20
1,1-Dichloroethene	0.557	0.625		12.21	20
Acetone	0.355	0.340		-4.22	20
Carbon Disulfide	1.539	1.877		21.96	20
Methyl tert-butyl Ether	2.015	2.103		4.37	20
Methyl Acetate	1.035	0.839		-18.94	20
Methylene Chloride	0.665	0.691		3.91	20
trans-1,2-Dichloroethene	0.619	0.673		8.72	20
1,1-Dichloroethane	1.120	1.186	0.1	5.89	20
Cyclohexane	1.086	1.066		-1.84	20
2-Butanone	0.577	0.514		-10.92	20
Carbon Tetrachloride	0.433	0.476		9.93	20
cis-1,2-Dichloroethene	0.740	0.796		7.57	20
Bromochloromethane	0.550	0.487		-11.45	20
Chloroform	1.118	1.158		3.58	20
1,1,1-Trichloroethane	0.951	0.991		4.21	20
Methylcyclohexane	0.605	0.618		2.15	20
Benzene	1.444	1.587		9.9	20
1,2-Dichloroethane	0.438	0.466		6.39	20
Trichloroethene	0.342	0.388		13.45	20
1,2-Dichloropropane	0.351	0.382		8.83	20
Bromodichloromethane	0.480	0.521		8.54	20
4-Methyl-2-Pentanone	0.543	0.536		-1.29	20
Toluene	0.882	0.980		11.11	20
t-1,3-Dichloropropene	0.537	0.599		11.55	20
cis-1,3-Dichloropropene	0.574	0.646		12.54	20
1,1,2-Trichloroethane	0.340	0.364		7.06	20
2-Hexanone	0.350	0.360		2.86	20
Dibromochloromethane	0.354	0.402		13.56	20
1,2-Dibromoethane	0.348	0.384		10.35	20
Tetrachloroethene	0.316	0.360		13.92	20
Chlorobenzene	1.103	1.247	0.3	13.06	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: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q2268 SAS No.: Q2268 SDG No.: Q2268

Instrument ID: MSVOA_N Calibration Date/Time: 06/16/2025 09:48

Lab File ID: VN087017.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	2.085		9.74	20
m/p-Xylenes	0.727	0.842		15.82	20
o-Xylene	0.696	0.801		15.09	20
Styrene	1.192	1.369		14.85	20
Bromoform	0.263	0.310	0.1	17.87	20
Isopropylbenzene	3.643	3.951		8.45	20
1,1,2,2-Tetrachloroethane	1.234	1.321	0.3	7.05	20
1,3-Dichlorobenzene	1.644	1.844		12.16	20
1,4-Dichlorobenzene	1.676	1.861		11.04	20
1,2-Dichlorobenzene	1.579	1.743		10.39	20
1,2-Dibromo-3-Chloropropane	0.295	0.291		-1.36	20
1,2,4-Trichlorobenzene	1.008	1.007		-0.1	20
1,2,3-Trichlorobenzene	1.002	0.957		-4.49	20
1,2-Dichloroethane-d4	0.669	0.560		-16.29	20
Dibromofluoromethane	0.296	0.282		-4.73	20
Toluene-d8	1.173	1.051		-10.4	20
4-Bromofluorobenzene	0.436	0.397		-8.94	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\VN061625\
 Data File : VN087017.D
 Acq On : 16 Jun 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/17/2025
 Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:16:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	190027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	334516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287112	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143033	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	106350	41.800	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	83.600%		
35) Dibromofluoromethane	8.171	113	94386	47.611	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.220%		
50) Toluene-d8	10.565	98	351638	44.807	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.620%		
62) 4-Bromofluorobenzene	12.847	95	132718	45.518	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	91.040%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	108175	57.094	ug/l	98
3) Chloromethane	2.395	50	109051	44.572	ug/l	98
4) Vinyl Chloride	2.553	62	147574	58.472	ug/l	98
5) Bromomethane	2.995	94	61231	43.354	ug/l	98
6) Chloroethane	3.159	64	92590	56.795	ug/l	98
7) Trichlorofluoromethane	3.530	101	182201	55.254	ug/l	99
8) Diethyl Ether	3.983	74	79826	55.562	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.400	101	113848	54.954	ug/l	99
10) Methyl Iodide	4.612	142	67582	25.165	ug/l	96
11) Tert butyl alcohol	5.536	59	149479	216.524	ug/l	98
12) 1,1-Dichloroethene	4.371	96	118809	56.173	ug/l	96
13) Acrolein	4.206	56	26856	122.898	ug/l	97
14) Allyl chloride	5.047	41	170531	48.616	ug/l	94
15) Acrylonitrile	5.736	53	394798	244.667	ug/l	99
16) Acetone	4.442	43	323168	239.519	ug/l	96
17) Carbon Disulfide	4.742	76	356722	60.973	ug/l	100
18) Methyl Acetate	5.047	43	159446	40.552	ug/l	98
19) Methyl tert-butyl Ether	5.818	73	399579	52.177	ug/l	99
20) Methylene Chloride	5.300	84	131377	52.010	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	127891	54.348	ug/l	96
22) Diisopropyl ether	6.688	45	363906	49.217	ug/l	96
23) Vinyl Acetate	6.618	43	1629503	260.843	ug/l	97
24) 1,1-Dichloroethane	6.588	63	225464	52.987	ug/l	100
25) 2-Butanone	7.488	43	488768	222.862	ug/l	96
26) 2,2-Dichloropropane	7.500	77	196122	59.253	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	151345	53.778	ug/l	99
28) Bromochloromethane	7.824	49	92552	44.238	ug/l	91
29) Tetrahydrofuran	7.847	42	325481	227.820	ug/l	95
30) Chloroform	7.971	83	220029	51.780	ug/l	99
31) Cyclohexane	8.265	56	202567	49.089	ug/l	91
32) 1,1,1-Trichloroethane	8.177	97	188278	52.094	ug/l	97
36) 1,1-Dichloropropene	8.377	75	165024	55.864	ug/l	99
37) Ethyl Acetate	7.571	43	189603	50.420	ug/l	99
38) Carbon Tetrachloride	8.371	117	159282	54.922	ug/l	96
39) Methylcyclohexane	9.606	83	206742	51.084	ug/l	97
40) Benzene	8.612	78	530925	54.963	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087017.D
 Acq On : 16 Jun 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/17/2025
 Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:16:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	99556	47.141	ug/l	93
42) 1,2-Dichloroethane	8.677	62	155773	53.167	ug/l	99
43) Isopropyl Acetate	8.694	43	293801	48.678	ug/l	96
44) Trichloroethene	9.359	130	129680	56.617	ug/l	97
45) 1,2-Dichloropropane	9.624	63	127768	54.368	ug/l	99
46) Dibromomethane	9.712	93	87464	56.032	ug/l	98
47) Bromodichloromethane	9.888	83	174122	54.216	ug/l	99
48) Methyl methacrylate	9.682	41	135021	48.604	ug/l	94
49) 1,4-Dioxane	9.700	88	50936	1007.894	ug/l #	96
51) 4-Methyl-2-Pentanone	10.447	43	896090	246.622	ug/l	97
52) Toluene	10.629	92	327761	55.522	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	200248	55.760	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	216234	56.274	ug/l	96
55) 1,1,2-Trichloroethane	11.018	97	121706	53.580	ug/l	99
56) Ethyl methacrylate	10.876	69	206624	57.111	ug/l	93
57) 1,3-Dichloropropane	11.165	76	212453	53.917	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	517636	239.879	ug/l	98
59) 2-Hexanone	11.200	43	602730	257.529	ug/l	94
60) Dibromochloromethane	11.359	129	134421	56.799	ug/l	100
61) 1,2-Dibromoethane	11.471	107	128404	55.151	ug/l	99
64) Tetrachloroethene	11.106	164	103237	56.816	ug/l	94
65) Chlorobenzene	11.888	112	357903	56.520	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	114793	56.395	ug/l	98
67) Ethyl Benzene	11.965	91	598718	54.891	ug/l	98
68) m/p-Xylenes	12.070	106	483774	115.865	ug/l	96
69) o-Xylene	12.394	106	229956	57.505	ug/l	96
70) Styrene	12.412	104	393057	57.441	ug/l	99
71) Bromoform	12.576	173	89059	59.050	ug/l #	100
73) Isopropylbenzene	12.694	105	565099	54.232	ug/l	100
74) N-amyl acetate	12.518	43	179627	49.332	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	188972	53.532	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	158815m	46.711	ug/l	
77) Bromobenzene	12.982	156	137168	57.400	ug/l	95
78) n-propylbenzene	13.035	91	671600	53.036	ug/l	99
79) 2-Chlorotoluene	13.123	91	402792	53.039	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	465579	54.118	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	73074m	49.475	ug/l	
82) 4-Chlorotoluene	13.223	91	415939	54.130	ug/l	99
83) tert-Butylbenzene	13.435	119	398695	50.628	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	472628	54.786	ug/l	100
85) sec-Butylbenzene	13.612	105	574896	50.270	ug/l	100
86) p-Isopropyltoluene	13.729	119	487055	51.521	ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	263818	56.112	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	266217	55.537	ug/l	100
89) n-Butylbenzene	14.053	91	432803	47.266	ug/l	99
90) Hexachloroethane	14.329	117	81390	50.792	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	249261	55.182	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41640	49.323	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	144014	49.928	ug/l	99
94) Hexachlorobutadiene	15.500	225	43928	40.877	ug/l	99
95) Naphthalene	15.635	128	566130	52.730	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	136928	47.780	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087017.D
Acq On : 16 Jun 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/17/2025
Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:16:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

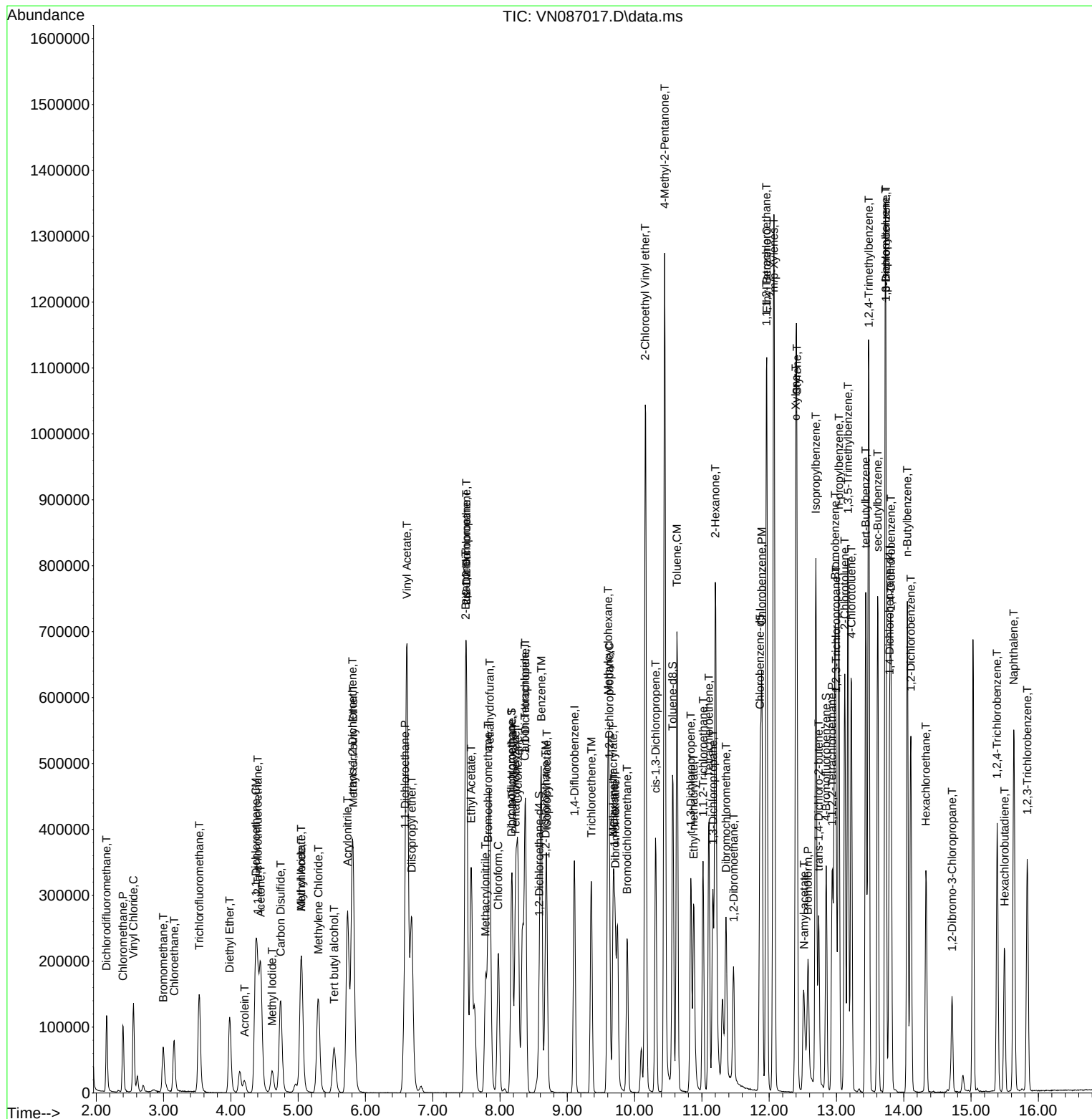
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/17/2025
Supervised By :Semsettin Yesilyurt 06/17/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087017.D
 Acq On : 16 Jun 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 17 07:16:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	92	0.00
2 T	Dichlorodifluoromethane	0.499	0.569	-14.0	104	0.00
3 P	Chloromethane	0.644	0.574	10.9	88	0.00
4 C	Vinyl Chloride	0.664	0.777	-17.0#	111	0.00
5 T	Bromomethane	0.372	0.322	13.4	83	0.00
6 T	Chloroethane	0.429	0.487	-13.5	110	0.00
7 T	Trichlorofluoromethane	0.868	0.959	-10.5	105	0.00
8 T	Diethyl Ether	0.378	0.420	-11.1	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.599	-9.9	106	0.00
10 T	Methyl Iodide	0.707	0.356	49.6#	48#	0.00
11 T	Tert butyl alcohol	0.182	0.157	13.7	82	-0.01
12 CM	1,1-Dichloroethene	0.557	0.625	-12.2#	107	0.01
13 T	Acrolein	0.057	0.028	50.9#	57	0.00
14 T	Allyl chloride	0.923	0.897	2.8	95	0.00
15 T	Acrylonitrile	0.425	0.416	2.1	94	0.00
16 T	Acetone	0.355	0.340	4.2	97	0.00
17 T	Carbon Disulfide	1.539	1.877	-22.0	121	0.01
18 T	Methyl Acetate	1.035	0.839	18.9	78	0.00
19 T	Methyl tert-butyl Ether	2.015	2.103	-4.4	100	0.00
20 T	Methylene Chloride	0.665	0.691	-3.9	105	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.673	-8.7	109	0.00
22 T	Diisopropyl ether	1.945	1.915	1.5	95	0.00
23 T	Vinyl Acetate	1.644	1.715	-4.3	99	0.00
24 P	1,1-Dichloroethane	1.120	1.186	-5.9	102	0.00
25 T	2-Butanone	0.577	0.514	10.9	86	0.00
26 T	2,2-Dichloropropane	0.871	1.032	-18.5	105	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.796	-7.6	104	0.00
28 T	Bromochloromethane	0.550	0.487	11.5	96	0.00
29 T	Tetrahydrofuran	0.376	0.343	8.8	88	0.00
30 C	Chloroform	1.118	1.158	-3.6#	100	0.00
31 T	Cyclohexane	1.086	1.066	1.8	97	0.00
32 T	1,1,1-Trichloroethane	0.951	0.991	-4.2	101	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.560	16.3	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.00
35 S	Dibromofluoromethane	0.296	0.282	4.7	114	0.00
36 T	1,1-Dichloropropene	0.442	0.493	-11.5	104	0.00
37 T	Ethyl Acetate	0.562	0.567	-0.9	93	0.00
38 T	Carbon Tetrachloride	0.433	0.476	-9.9	103	0.00
39 T	Methylcyclohexane	0.605	0.618	-2.1	96	0.00
40 TM	Benzene	1.444	1.587	-9.9	104	0.00
41 T	Methacrylonitrile	0.316	0.298	5.7	87	0.00
42 TM	1,2-Dichloroethane	0.438	0.466	-6.4	100	0.00
43 T	Isopropyl Acetate	0.902	0.878	2.7	91	0.00
44 TM	Trichloroethene	0.342	0.388	-13.5	105	0.00
45 C	1,2-Dichloropropane	0.351	0.382	-8.8#	102	0.00
46 T	Dibromomethane	0.233	0.261	-12.0	104	0.00
47 T	Bromodichloromethane	0.480	0.521	-8.5	101	0.00
48 T	Methyl methacrylate	0.415	0.404	2.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087017.D
 Acq On : 16 Jun 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 17 07:16:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	0.008	0.008	0.0	86	0.00
50 S	Toluene-d8	1.173	1.051	10.4	108	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.536	1.3	88	0.00
52 CM	Toluene	0.882	0.980	-11.1#	104	0.00
53 T	t-1,3-Dichloropropene	0.537	0.599	-11.5	101	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.646	-12.5	104	0.00
55 T	1,1,2-Trichloroethane	0.340	0.364	-7.1	100	0.00
56 T	Ethyl methacrylate	0.541	0.618	-14.2	98	0.00
57 T	1,3-Dichloropropane	0.589	0.635	-7.8	100	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.309	4.3	100	0.00
59 T	2-Hexanone	0.350	0.360	-2.9	87	0.00
60 T	Dibromochloromethane	0.354	0.402	-13.6	104	0.00
61 T	1,2-Dibromoethane	0.348	0.384	-10.3	103	0.00
62 S	4-Bromofluorobenzene	0.436	0.397	8.9	108	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64 T	Tetrachloroethene	0.316	0.360	-13.9	106	0.00
65 PM	Chlorobenzene	1.103	1.247	-13.1	105	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.400	-13.0	102	0.00
67 C	Ethyl Benzene	1.899	2.085	-9.8#	100	0.00
68 T	m/p-Xylenes	0.727	0.842	-15.8	104	0.00
69 T	o-Xylene	0.696	0.801	-15.1	103	0.00
70 T	Styrene	1.192	1.369	-14.8	102	0.00
71 P	Bromoform	0.263	0.310	-17.9	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
73 T	Isopropylbenzene	3.643	3.951	-8.5	98	0.00
74 T	N-amyl acetate	1.273	1.256	1.3	85	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.321	-7.1	96	0.00
76 T	1,2,3-Trichloropropane	1.189	1.110	6.6	81	0.00
77 T	Bromobenzene	0.835	0.959	-14.9	104	0.00
78 T	n-propylbenzene	4.427	4.695	-6.1	95	0.00
79 T	2-Chlorotoluene	2.655	2.816	-6.1	96	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.255	-8.2	96	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.511	1.0	92	0.00
82 T	4-Chlorotoluene	2.686	2.908	-8.3	98	0.00
83 T	tert-Butylbenzene	2.753	2.787	-1.2	91	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.304	-9.5	97	0.00
85 T	sec-Butylbenzene	3.998	4.019	-0.5	90	0.00
86 T	p-Isopropyltoluene	3.305	3.405	-3.0	91	0.00
87 T	1,3-Dichlorobenzene	1.644	1.844	-12.2	101	0.00
88 T	1,4-Dichlorobenzene	1.676	1.861	-11.0	101	0.00
89 T	n-Butylbenzene	3.201	3.026	5.5	84	0.00
90 T	Hexachloroethane	0.560	0.569	-1.6	91	0.00
91 T	1,2-Dichlorobenzene	1.579	1.743	-10.4	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.291	1.4	91	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.007	0.1	89	0.00
94 T	Hexachlorobutadiene	0.376	0.307	18.4	72	0.00
95 T	Naphthalene	3.753	3.958	-5.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087017.D
Acq On : 16 Jun 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 17 07:16:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	0.957	4.5	86	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087017.D
 Acq On : 16 Jun 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 17 07:16:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	92	0.00
2 T	Dichlorodifluoromethane	50.000	57.094	-14.2	104	0.00
3 P	Chloromethane	50.000	44.572	10.9	88	0.00
4 C	Vinyl Chloride	50.000	58.472	-16.9#	111	0.00
5 T	Bromomethane	50.000	43.354	13.3	83	0.00
6 T	Chloroethane	50.000	56.795	-13.6	110	0.00
7 T	Trichlorofluoromethane	50.000	55.254	-10.5	105	0.00
8 T	Diethyl Ether	50.000	55.562	-11.1	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	54.954	-9.9	106	0.00
10 T	Methyl Iodide	50.000	25.165	49.7#	48	0.00
11 T	Tert butyl alcohol	250.000	216.524	13.4	82	-0.01
12 CM	1,1-Dichloroethene	50.000	56.173	-12.3#	107	0.01
13 T	Acrolein	250.000	122.898	50.8#	57	0.00
14 T	Allyl chloride	50.000	48.616	2.8	95	0.00
15 T	Acrylonitrile	250.000	244.667	2.1	94	0.00
16 T	Acetone	250.000	239.519	4.2	97	0.00
17 T	Carbon Disulfide	50.000	60.973	-21.9	121	0.01
18 T	Methyl Acetate	50.000	40.552	18.9	78	0.00
19 T	Methyl tert-butyl Ether	50.000	52.177	-4.4	100	0.00
20 T	Methylene Chloride	50.000	52.010	-4.0	105	0.00
21 T	trans-1,2-Dichloroethene	50.000	54.348	-8.7	109	0.00
22 T	Diisopropyl ether	50.000	49.217	1.6	95	0.00
23 T	Vinyl Acetate	250.000	260.843	-4.3	99	0.00
24 P	1,1-Dichloroethane	50.000	52.987	-6.0	102	0.00
25 T	2-Butanone	250.000	222.862	10.9	86	0.00
26 T	2,2-Dichloropropane	50.000	59.253	-18.5	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.778	-7.6	104	0.00
28 T	Bromochloromethane	50.000	44.238	11.5	96	0.00
29 T	Tetrahydrofuran	250.000	227.820	8.9	88	0.00
30 C	Chloroform	50.000	51.780	-3.6#	100	0.00
31 T	Cyclohexane	50.000	49.089	1.8	97	0.00
32 T	1,1,1-Trichloroethane	50.000	52.094	-4.2	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	41.800	16.4	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	88	0.00
35 S	Dibromofluoromethane	50.000	47.611	4.8	114	0.00
36 T	1,1-Dichloropropene	50.000	55.864	-11.7	104	0.00
37 T	Ethyl Acetate	50.000	50.420	-0.8	93	0.00
38 T	Carbon Tetrachloride	50.000	54.922	-9.8	103	0.00
39 T	Methylcyclohexane	50.000	51.084	-2.2	96	0.00
40 TM	Benzene	50.000	54.963	-9.9	104	0.00
41 T	Methacrylonitrile	50.000	47.141	5.7	87	0.00
42 TM	1,2-Dichloroethane	50.000	53.167	-6.3	100	0.00
43 T	Isopropyl Acetate	50.000	48.678	2.6	91	0.00
44 TM	Trichloroethene	50.000	56.617	-13.2	105	0.00
45 C	1,2-Dichloropropane	50.000	54.368	-8.7#	102	0.00
46 T	Dibromomethane	50.000	56.032	-12.1	104	0.00
47 T	Bromodichloromethane	50.000	54.216	-8.4	101	0.00
48 T	Methyl methacrylate	50.000	48.604	2.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087017.D
 Acq On : 16 Jun 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 17 07:16:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	1007.894	-0.8	86	0.00
50 S	Toluene-d8	50.000	44.807	10.4	108	0.00
51 T	4-Methyl-2-Pentanone	250.000	246.622	1.4	88	0.00
52 CM	Toluene	50.000	55.522	-11.0#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	55.760	-11.5	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.274	-12.5	104	0.00
55 T	1,1,2-Trichloroethane	50.000	53.580	-7.2	100	0.00
56 T	Ethyl methacrylate	50.000	57.111	-14.2	98	0.00
57 T	1,3-Dichloropropane	50.000	53.917	-7.8	100	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	239.879	4.0	100	0.00
59 T	2-Hexanone	250.000	257.529	-3.0	87	0.00
60 T	Dibromochloromethane	50.000	56.799	-13.6	104	0.00
61 T	1,2-Dibromoethane	50.000	55.151	-10.3	103	0.00
62 S	4-Bromofluorobenzene	50.000	45.518	9.0	108	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64 T	Tetrachloroethene	50.000	56.816	-13.6	106	0.00
65 PM	Chlorobenzene	50.000	56.520	-13.0	105	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.395	-12.8	102	0.00
67 C	Ethyl Benzene	50.000	54.891	-9.8#	100	0.00
68 T	m/p-Xylenes	100.000	115.865	-15.9	104	0.00
69 T	o-Xylene	50.000	57.505	-15.0	103	0.00
70 T	Styrene	50.000	57.441	-14.9	102	0.00
71 P	Bromoform	50.000	59.050	-18.1	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	85	0.00
73 T	Isopropylbenzene	50.000	54.232	-8.5	98	0.00
74 T	N-ethyl acetate	50.000	49.332	1.3	85	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.532	-7.1	96	0.00
76 T	1,2,3-Trichloropropane	50.000	46.711	6.6	81	0.00
77 T	Bromobenzene	50.000	57.400	-14.8	104	0.00
78 T	n-propylbenzene	50.000	53.036	-6.1	95	0.00
79 T	2-Chlorotoluene	50.000	53.039	-6.1	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.118	-8.2	96	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.475	1.0	92	0.00
82 T	4-Chlorotoluene	50.000	54.130	-8.3	98	0.00
83 T	tert-Butylbenzene	50.000	50.628	-1.3	91	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.786	-9.6	97	0.00
85 T	sec-Butylbenzene	50.000	50.270	-0.5	90	0.00
86 T	p-Isopropyltoluene	50.000	51.521	-3.0	91	0.00
87 T	1,3-Dichlorobenzene	50.000	56.112	-12.2	101	0.00
88 T	1,4-Dichlorobenzene	50.000	55.537	-11.1	101	0.00
89 T	n-Butylbenzene	50.000	47.266	5.5	84	0.00
90 T	Hexachloroethane	50.000	50.792	-1.6	91	0.00
91 T	1,2-Dichlorobenzene	50.000	55.182	-10.4	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.323	1.4	91	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.928	0.1	89	0.00
94 T	Hexachlorobutadiene	50.000	40.877	18.2	72	0.00
95 T	Naphthalene	50.000	52.730	-5.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087017.D
Acq On : 16 Jun 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 17 07:16:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	47.780	4.4	86	0.00

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



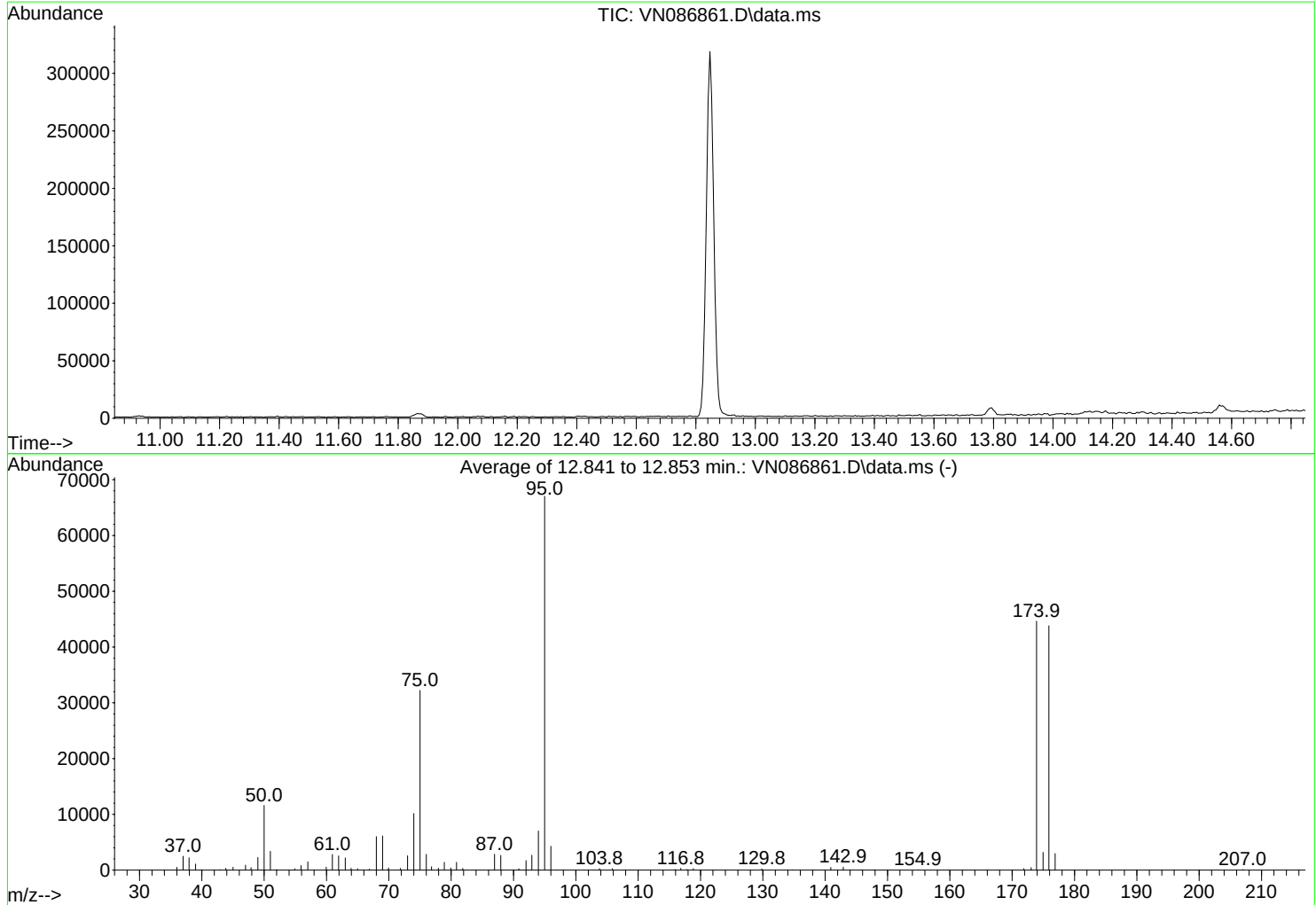
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086861.D
Acq On : 06 Jun 2025 07:59
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\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.3	11610	PASS
75	95	30	60	48.1	32235	PASS
95	95	100	100	100.0	67037	PASS
96	95	5	9	6.4	4284	PASS
173	174	0.00	2	1.0	453	PASS
174	95	50	100	66.6	44632	PASS
175	174	5	9	7.1	3184	PASS
176	174	95	101	98.1	43805	PASS
177	176	5	9	6.8	2979	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	508	50.00	11610	63.95	331	76.00	281
37.00	2495	51.00	3387	65.00	260	76.85	60
37.95	2209	52.05	112	66.85	177	77.95	34
39.00	1096	54.90	253	68.00	6008	78.90	141
39.95	84	55.90	806	69.00	6141	79.95	395
42.90	88	57.00	1501	69.80	100	80.85	1397
43.85	329	58.00	50	69.95	383	81.85	328
45.00	512	59.95	526	71.85	297	86.95	2851
47.00	882	60.95	2806	73.00	2562	87.95	2646
47.90	460	61.95	2535	74.00	10138	90.85	264
49.00	2276	63.00	2195	75.00	32235	92.00	1704

Average of 12.841 to 12.853 min.: VN086861.D\data.ms

BFB

Modified:subtracted

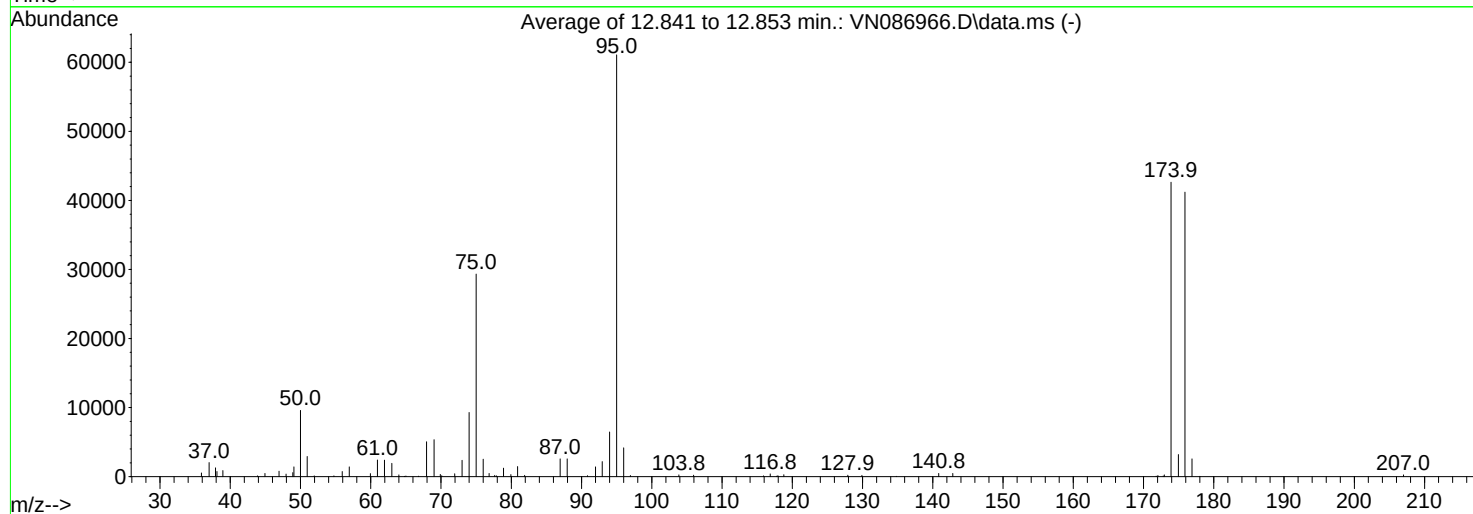
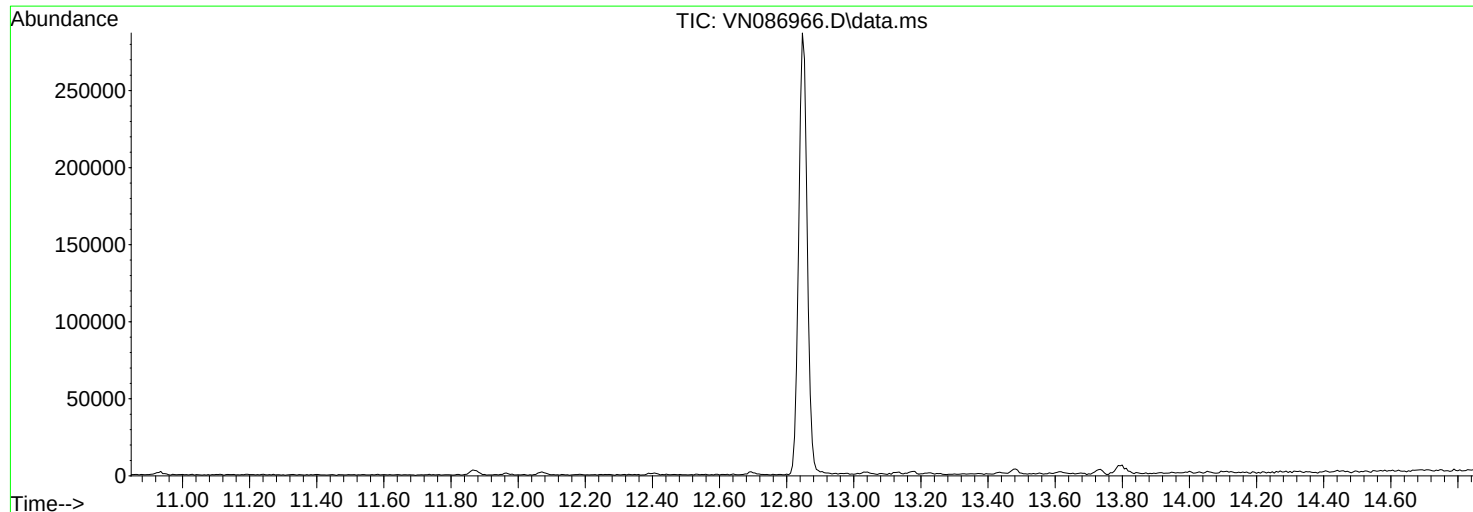
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.95	2660	129.85	228	175.90	43805		
94.00	7029	134.80	66	176.90	2979		
95.00	67037	140.90	488	207.00	111		
96.00	4284	142.90	542				
97.00	57	145.90	54				
103.80	279	147.90	82				
105.85	267	154.90	64				
115.90	128	171.85	288				
116.85	345	173.05	453				
117.85	116	173.90	44632				
118.85	274	174.95	3184				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086966.D
Acq On : 12 Jun 2025 10:25
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\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.7	9593	PASS
75	95	30	60	48.0	29333	PASS
95	95	100	100	100.0	61077	PASS
96	95	5	9	6.8	4173	PASS
173	174	0.00	2	0.6	261	PASS
174	95	50	100	69.8	42635	PASS
175	174	5	9	7.5	3192	PASS
176	174	95	101	96.6	41189	PASS
177	176	5	9	6.2	2568	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	524	50.00	9593	64.80	52	76.00	252
37.00	2036	50.95	2916	65.00	82	76.85	46
37.90	1270	51.95	114	66.80	72	77.65	19
38.10	748	54.75	125	67.95	5061	77.90	12
38.95	873	55.95	733	69.00	5363	78.90	1239
43.90	127	56.95	1405	69.90	331	79.95	312
44.95	472	59.95	453	70.10	138	80.90	1450
46.95	797	60.95	2414	71.95	420	81.90	197
47.95	360	61.95	2399	73.00	2369	86.95	2566
48.90	571	63.00	1927	74.00	9297	87.95	2571
49.05	1425	64.00	259	75.00	29333	90.85	132

Average of 12.841 to 12.853 min.: VN086966.D\data.ms

BFB

Modified:subtracted

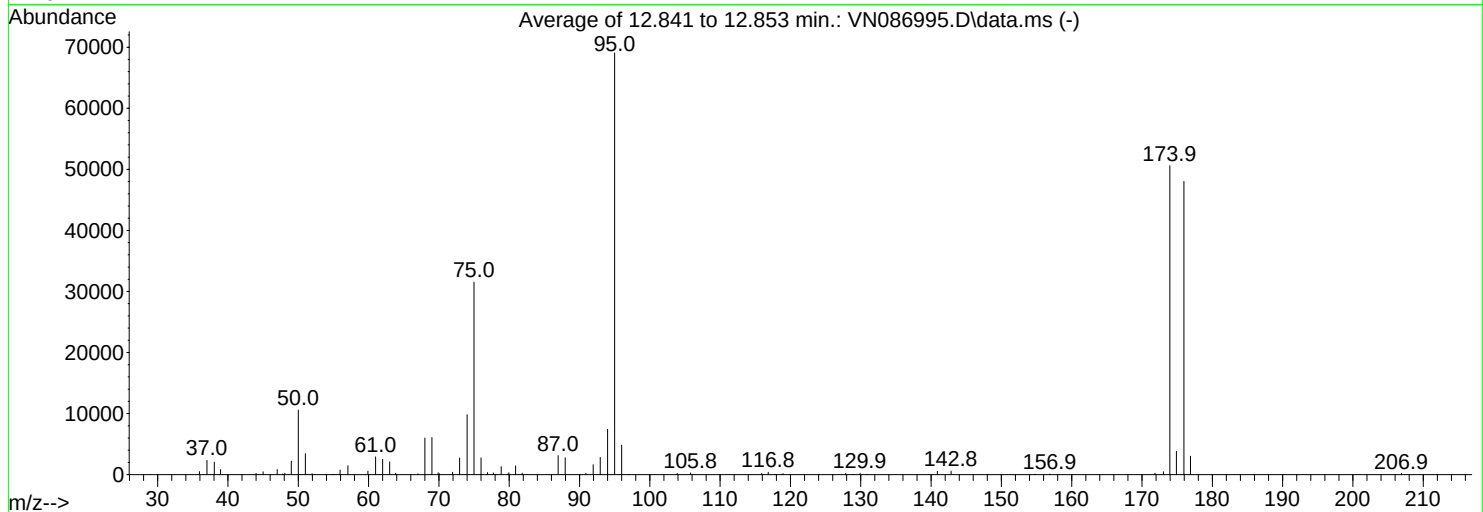
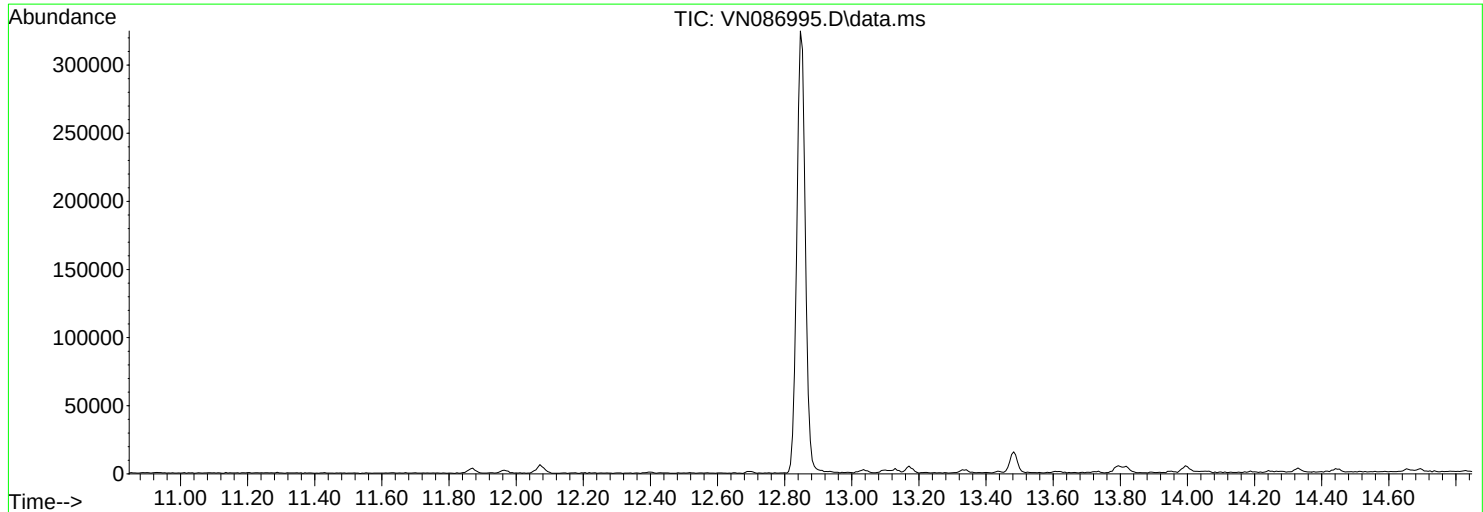
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	1404	117.95	135	173.90	42635		
92.95	2173	118.80	291	174.95	3192		
94.00	6466	127.90	200	175.90	41189		
95.00	61077	129.90	179	176.90	2568		
96.00	4173	134.80	53	178.00	56		
96.95	155	140.85	472	207.00	257		
103.85	255	142.85	455				
105.95	221	171.80	64				
115.90	128	172.05	159				
116.85	389	172.80	93				
117.80	63	172.95	261				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086995.D
Acq On : 13 Jun 2025 10:26
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\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	10594	PASS
75	95	30	60	45.6	31528	PASS
95	95	100	100	100.0	69080	PASS
96	95	5	9	7.0	4824	PASS
173	174	0.00	2	0.9	467	PASS
174	95	50	100	73.2	50592	PASS
175	174	5	9	7.5	3797	PASS
176	174	95	101	94.9	48037	PASS
177	176	5	9	6.3	3018	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	502	51.00	3443	67.00	147	77.75	279
37.00	2347	51.95	163	68.00	5999	78.10	8
38.05	2058	54.80	50	69.00	6072	78.85	130
38.95	843	55.10	54	69.90	305	79.80	11
44.00	215	55.95	750	70.10	171	79.95	318
45.00	483	57.05	1476	71.95	403	80.90	1433
47.00	846	59.90	569	72.95	2733	81.85	252
47.80	104	61.00	2919	74.00	9842	86.95	3110
48.10	225	62.00	2530	75.00	31528	87.95	2782
49.00	2194	63.00	2107	76.00	2749	90.90	210
50.00	10594	63.85	232	76.90	348	91.95	1631

Average of 12.841 to 12.853 min.: VN086995.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.95	2835	118.80	70	173.05	467		
94.00	7405	118.95	170	173.95	50592		
95.00	69080	127.85	212	174.90	3797		
96.00	4824	128.90	62	175.95	48037		
97.00	51	129.90	216	176.90	3018		
103.90	222	130.90	53	206.90	203		
105.80	301	140.90	561				
115.90	197	142.85	568				
116.85	390	154.80	70				
117.70	57	156.90	104				
117.90	67	171.85	231				

Instrument :

MSVOA_N

ClientSampleId :

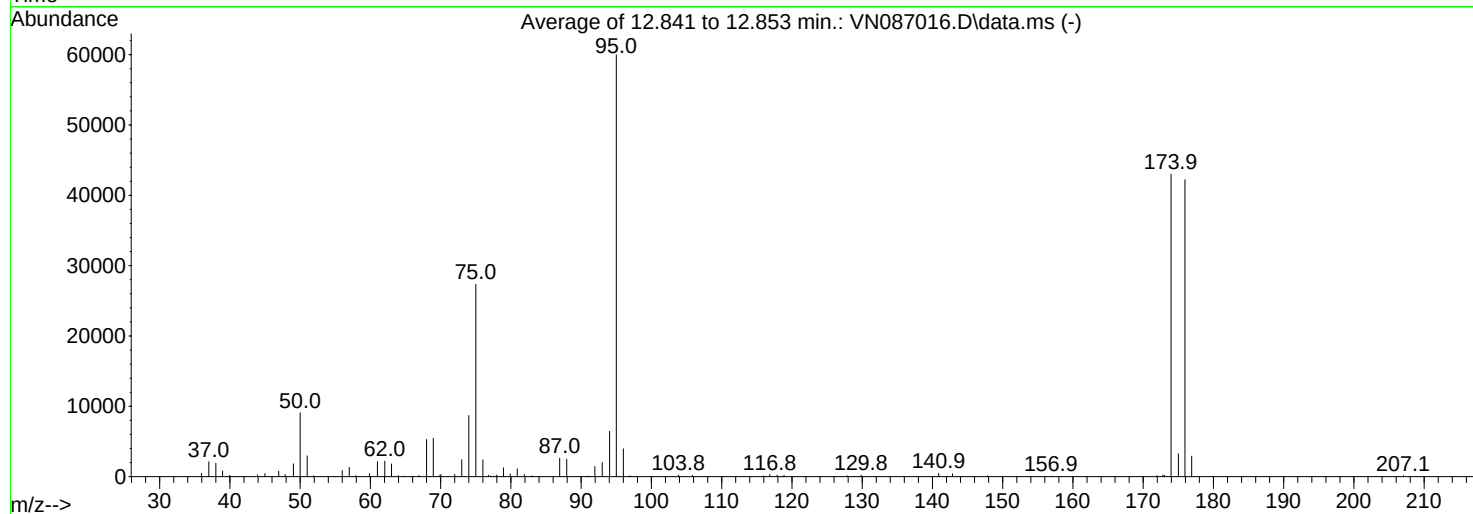
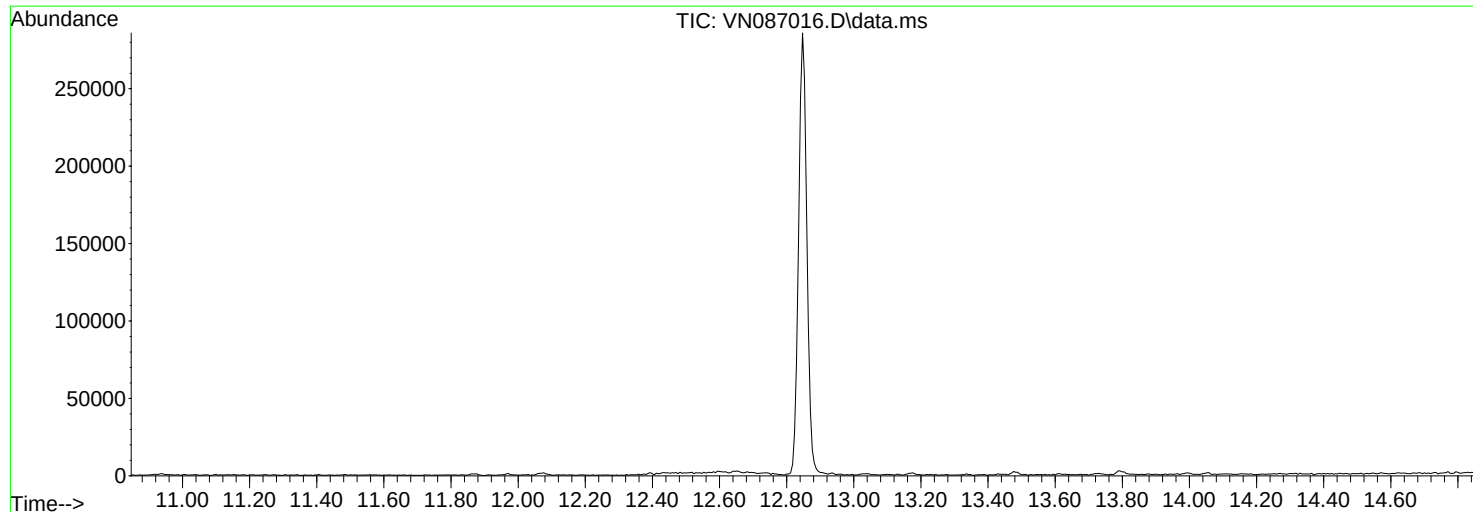
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087016.D
Acq On : 16 Jun 2025 08:39
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\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	9076	PASS
75	95	30	60	45.6	27371	PASS
95	95	100	100	100.0	59973	PASS
96	95	5	9	6.6	3959	PASS
173	174	0.00	2	0.5	223	PASS
174	95	50	100	71.7	43013	PASS
175	174	5	9	7.6	3259	PASS
176	174	95	101	98.2	42235	PASS
177	176	5	9	6.9	2913	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	483	50.00	9076	63.95	167	76.00	2391
37.00	2106	51.00	2962	64.90	66	76.80	209
38.00	1909	51.90	109	66.90	169	77.10	101
38.95	789	54.95	18	68.00	5282	77.60	51
39.95	181	56.00	861	68.95	5470	78.00	238
41.00	54	57.00	1314	69.90	223	78.95	1262
43.95	255	57.90	129	70.05	293	79.90	395
45.00	444	59.85	441	72.00	335	80.90	1115
46.95	765	61.00	2150	73.00	2411	81.90	325
47.85	303	62.05	2199	74.00	8701	83.00	116
49.05	1829	63.00	1794	75.00	27371	86.95	2623

Average of 12.841 to 12.853 min.: VN087016.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	2473	103.85	213	142.85	418		
90.60	60	105.85	188	147.85	126		
91.00	62	115.90	116	156.90	60		
91.20	56	116.85	307	171.95	152		
91.95	1435	117.90	217	172.80	223		
93.00	2009	118.70	58	173.00	180		
94.05	6448	118.90	195	173.95	43013		
95.00	59973	127.85	142	175.00	3259		
96.00	3959	128.90	52	175.95	42235		
96.90	91	129.85	198	176.90	2913		
97.10	71	140.90	475	207.05	159		

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0612WBL01	SDG No.:	Q2268
Lab Sample ID:	VN0612WBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086969.D	1		06/12/25 11:55	VN061225

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:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0612WBL01		SDG No.:	Q2268
Lab Sample ID:	VN0612WBL01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086969.D	1		06/12/25 11:55	VN061225

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	50.8		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	52.4		86 - 113	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	293000	8.23			
540-36-3	1,4-Difluorobenzene	559000	9.106			
3114-55-4	Chlorobenzene-d5	497000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	240000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0612WBL01	SDG No.:	Q2268
Lab Sample ID:	VN0612WBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086969.D	1		06/12/25 11:55	VN061225

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\VN061225\
 Data File : VN086969.D
 Acq On : 12 Jun 2025 11:55
 Operator : JC\MD
 Sample : VN0612WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612WBL01

Quant Time: Jun 13 01:24:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	293212	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	559485	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	496764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	239856	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	199589	50.841	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.680%
35) Dibromofluoromethane	8.171	113	168556	50.837	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.680%
50) Toluene-d8	10.571	98	688131	52.426	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.860%
62) 4-Bromofluorobenzene	12.847	95	245215	50.284	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.560%

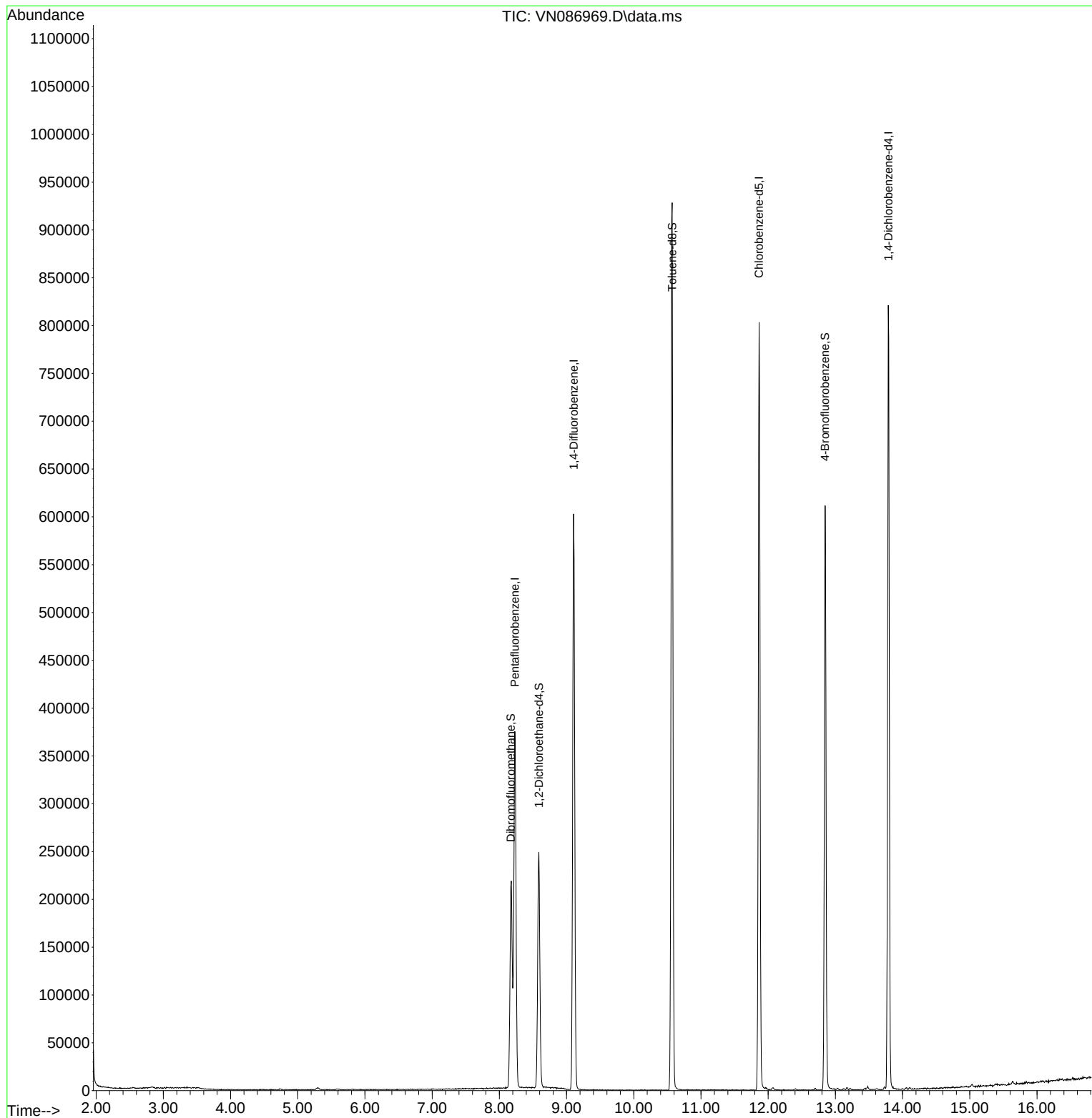
Target Compounds	Qvalue

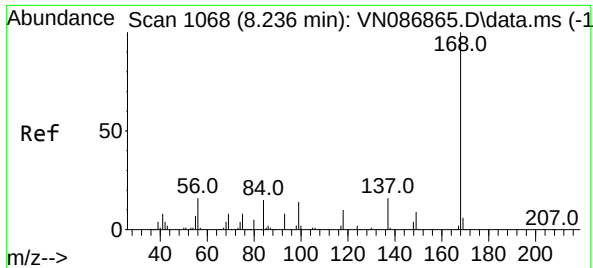
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086969.D
Acq On : 12 Jun 2025 11:55
Operator : JC\MD
Sample : VN0612WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

Quant Time: Jun 13 01:24:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

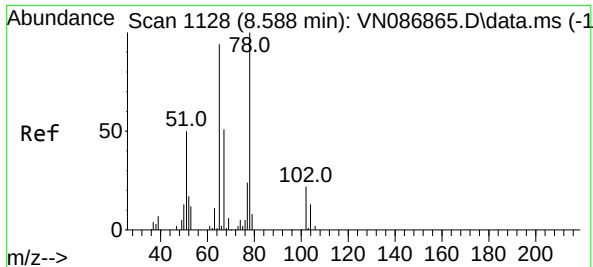
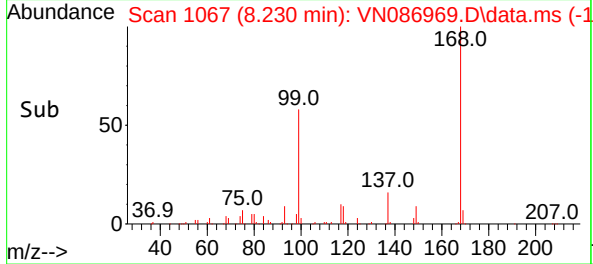
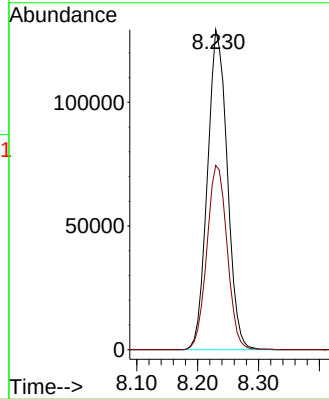
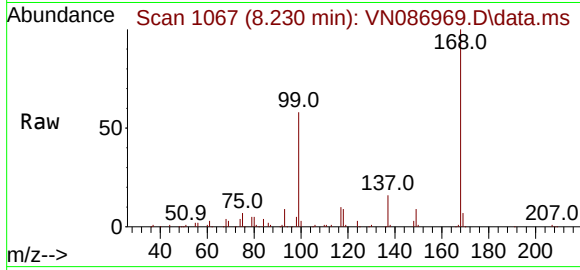




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086969.D
Acq: 12 Jun 2025 11:55

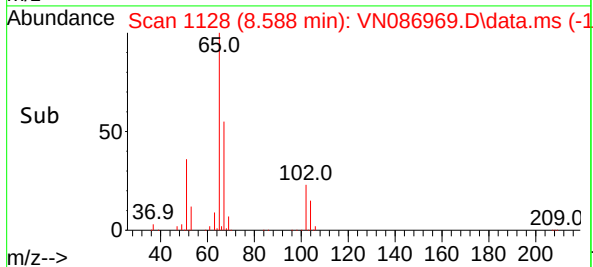
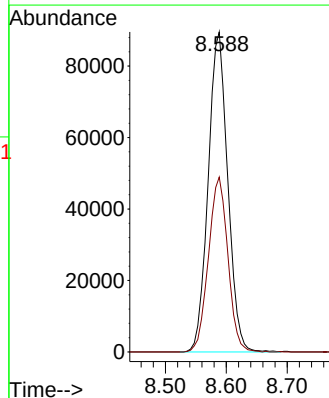
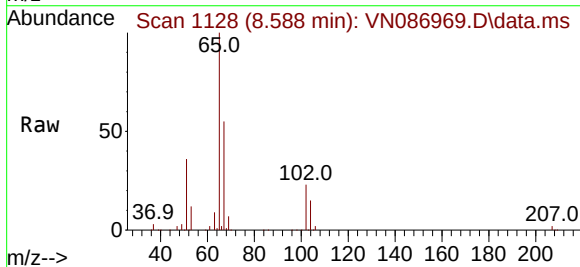
Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

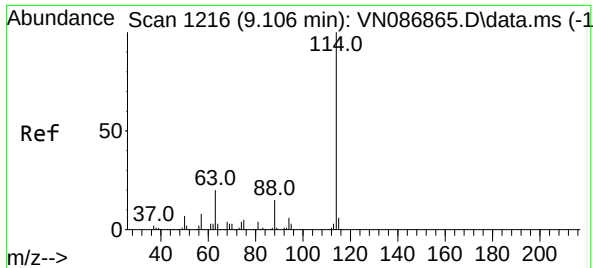
Tgt Ion:168 Resp: 293212
Ion Ratio Lower Upper
168 100
99 57.5 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 50.841 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086969.D
Acq: 12 Jun 2025 11:55

Tgt Ion: 65 Resp: 199589
Ion Ratio Lower Upper
65 100
67 54.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086969.D

Acq: 12 Jun 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

VN0612WBL01

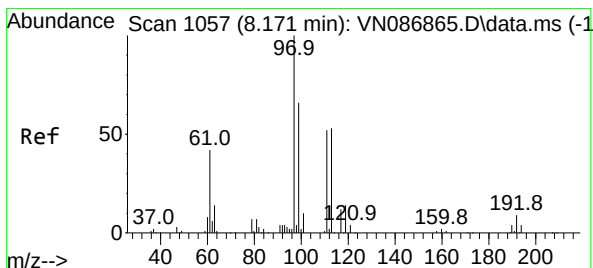
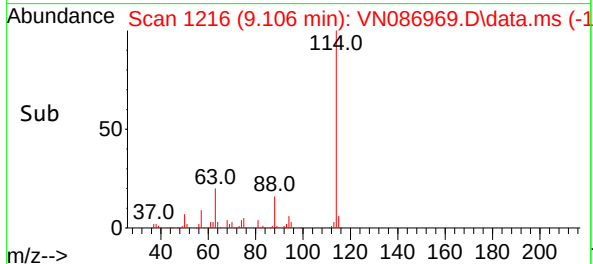
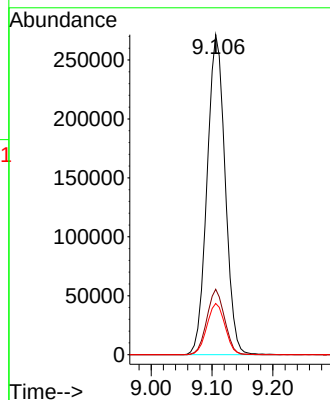
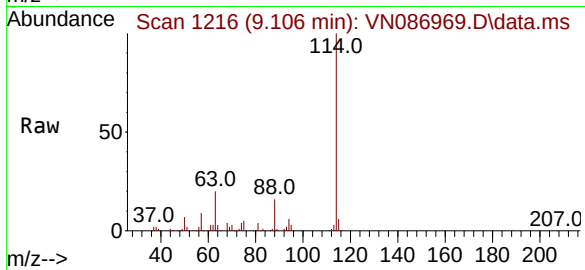
Tgt Ion:114 Resp: 559485

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.6

88 16.0 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.837 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN086969.D

Acq: 12 Jun 2025 11:55

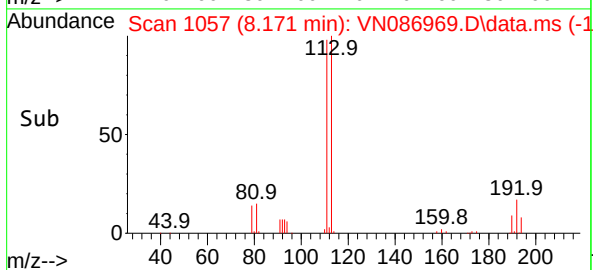
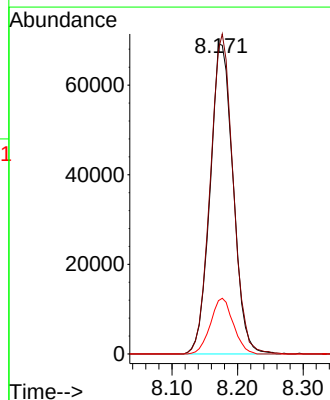
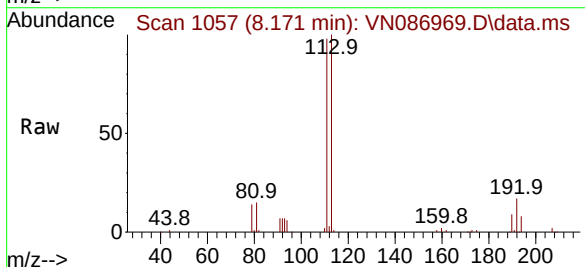
Tgt Ion:113 Resp: 168556

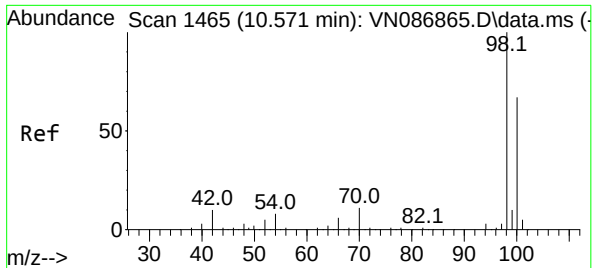
Ion Ratio Lower Upper

113 100

111 102.1 84.2 126.2

192 17.8 14.2 21.4

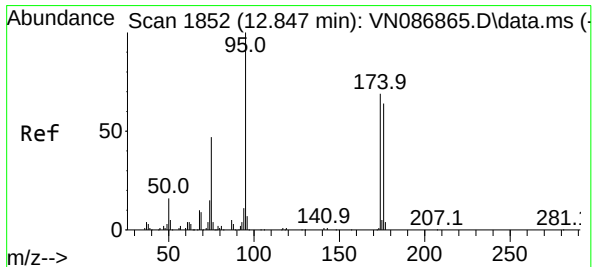
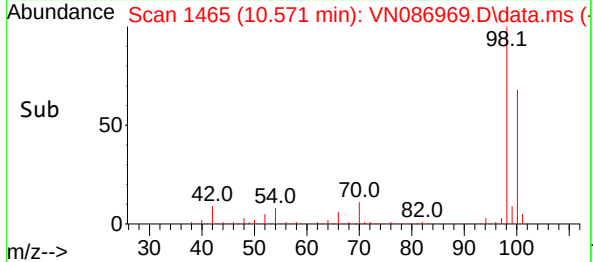
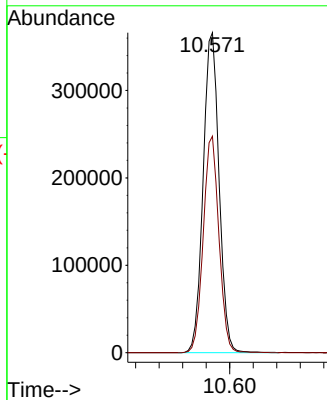
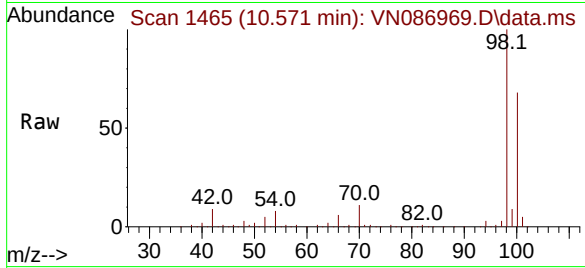




#50
Toluene-d8
Concen: 52.426 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086969.D
Acq: 12 Jun 2025 11:55

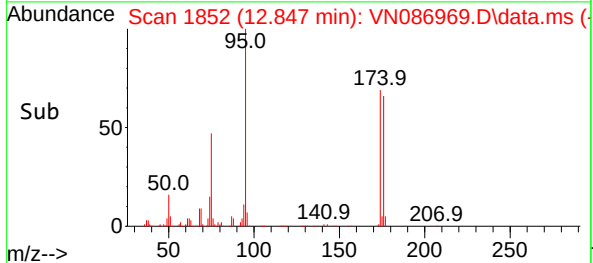
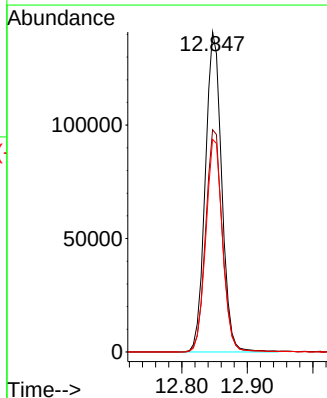
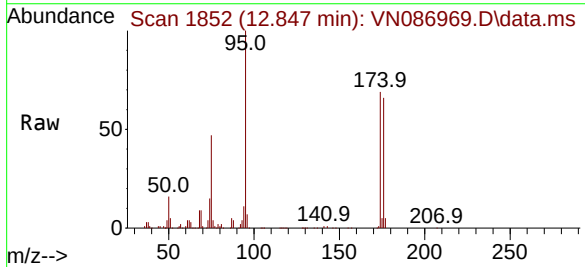
Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

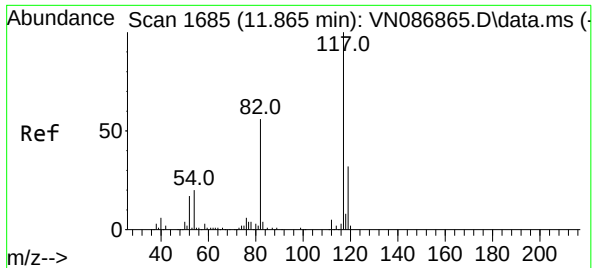
Tgt Ion: 98 Resp: 688131
Ion Ratio Lower Upper
98 100
100 66.6 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 50.284 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086969.D
Acq: 12 Jun 2025 11:55

Tgt Ion: 95 Resp: 245215
Ion Ratio Lower Upper
95 100
174 70.8 0.0 141.8
176 67.9 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086969.D

Acq: 12 Jun 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

VN0612WBL01

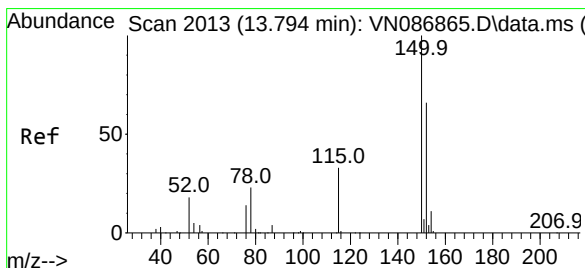
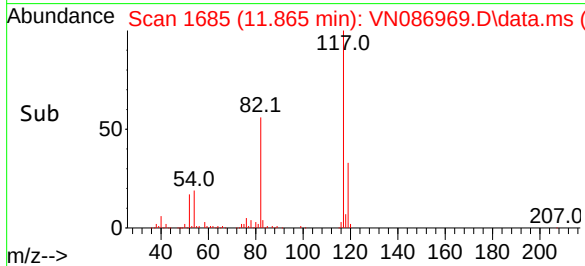
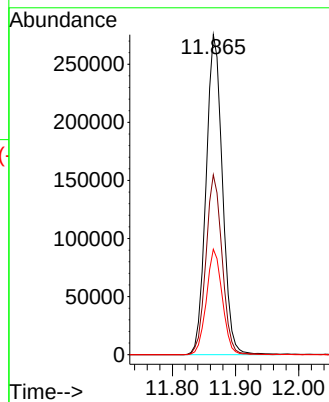
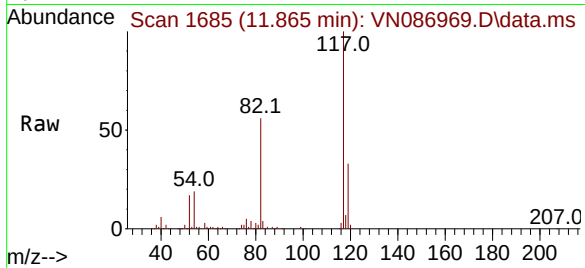
Tgt Ion:117 Resp: 496764

Ion Ratio Lower Upper

117 100

82 56.2 44.6 67.0

119 32.9 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086969.D

Acq: 12 Jun 2025 11:55

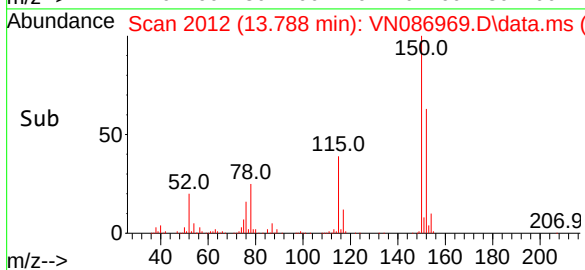
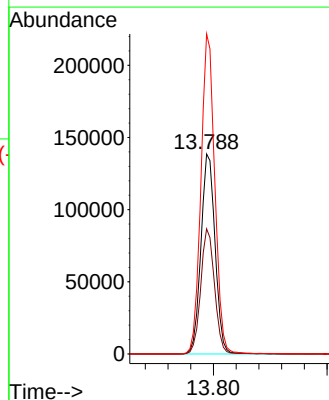
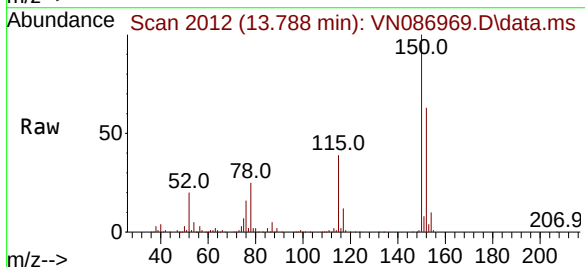
Tgt Ion:152 Resp: 239856

Ion Ratio Lower Upper

152 100

115 61.0 30.1 90.5

150 156.7 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086969.D
Acq On : 12 Jun 2025 11:55
Operator : JC\MD
Sample : VN0612WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086969.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	216488	515827	29.54%	5.860%
2	8.230	1062	1067	1081	rVB	372372	849053	48.62%	9.646%
3	8.588	1117	1128	1139	rBV	246739	555372	31.80%	6.310%
4	9.106	1207	1216	1230	rBV	602109	1244939	71.29%	14.144%
5	10.571	1456	1465	1484	rBV	928049	1746291	100.00%	19.840%
6	11.865	1676	1685	1698	rBV	802892	1436305	82.25%	16.318%
7	12.847	1845	1852	1867	rBV	610934	1058819	60.63%	12.029%
8	13.788	2005	2012	2023	rBV	818683	1395420	79.91%	15.853%

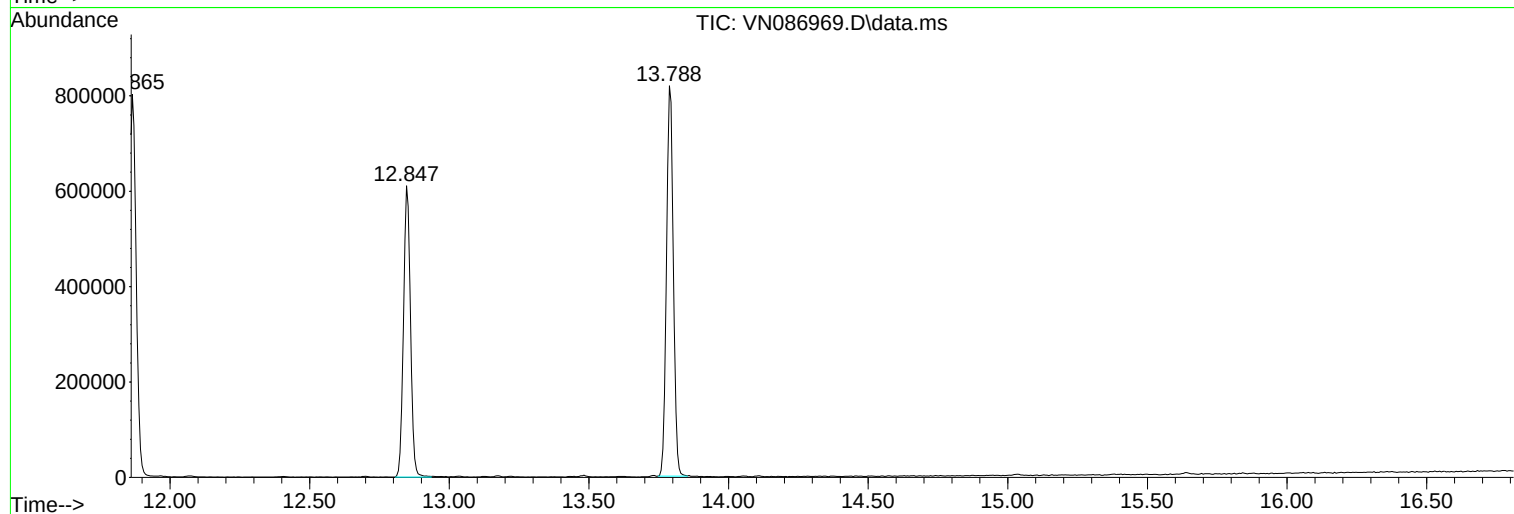
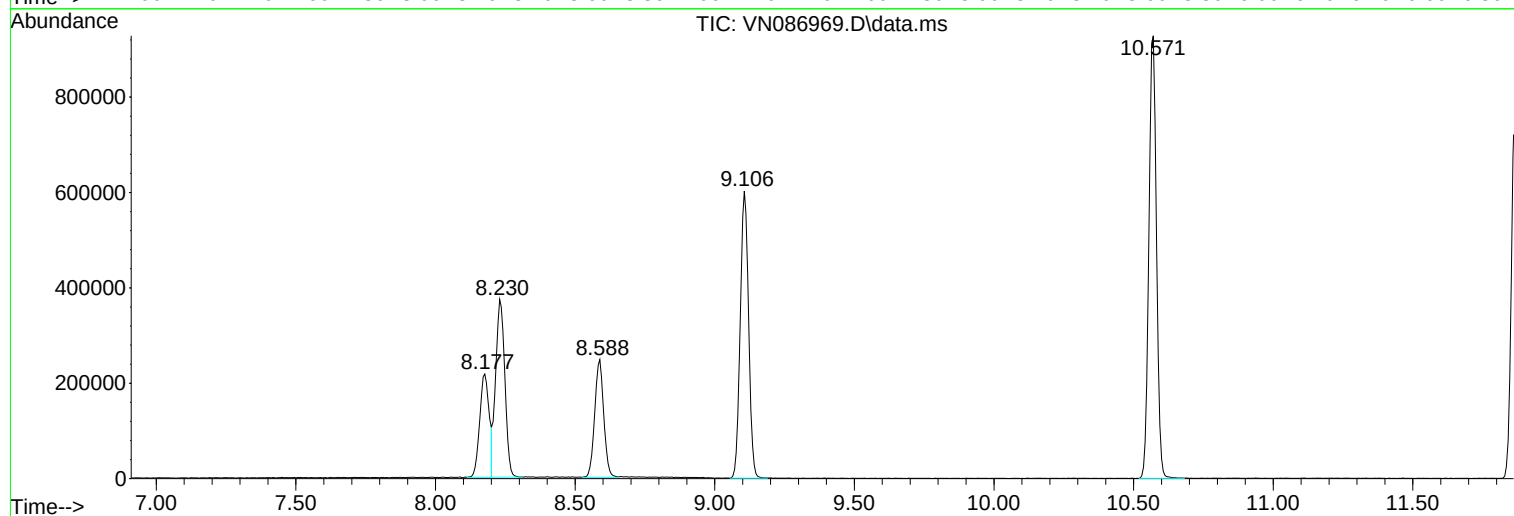
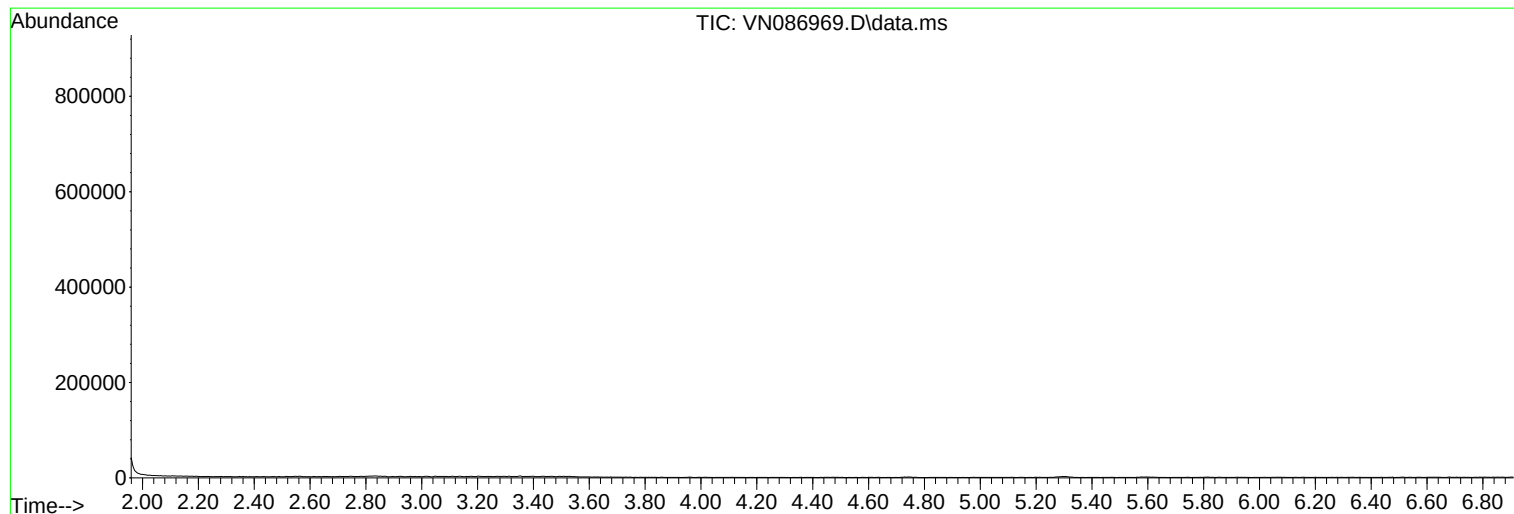
Sum of corrected areas: 8802026

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086969.D
Acq On : 12 Jun 2025 11:55
Operator : JC\MD
Sample : VN0612WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086969.D
Acq On : 12 Jun 2025 11:55
Operator : JC\MD
Sample : VN0612WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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\VN061225\
Data File : VN086969.D
Acq On : 12 Jun 2025 11:55
Operator : JC\MD
Sample : VN0612WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0613WBL01	SDG No.:	Q2268
Lab Sample ID:	VN0613WBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086998.D	1		06/13/25 13:47	VN061325

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:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0613WBL01		SDG No.:	Q2268
Lab Sample ID:	VN0613WBL01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086998.D	1		06/13/25 13:47	VN061325

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	47.9		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	51.8		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	317000	8.235			
540-36-3	1,4-Difluorobenzene	607000	9.106			
3114-55-4	Chlorobenzene-d5	536000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	258000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0613WBL01		SDG No.:	Q2268
Lab Sample ID:	VN0613WBL01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086998.D	1		06/13/25 13:47	VN061325

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\VN061325\
 Data File : VN086998.D
 Acq On : 13 Jun 2025 13:47
 Operator : JC\MD
 Sample : VN0613WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0613WBL01

Quant Time: Jun 14 00:27:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	317214	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	606954	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	536496	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	258118	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	203647	47.949	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.900%
35) Dibromofluoromethane	8.177	113	177333	49.301	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.600%
50) Toluene-d8	10.570	98	737326	51.781	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.560%
62) 4-Bromofluorobenzene	12.847	95	261903	49.506	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.020%

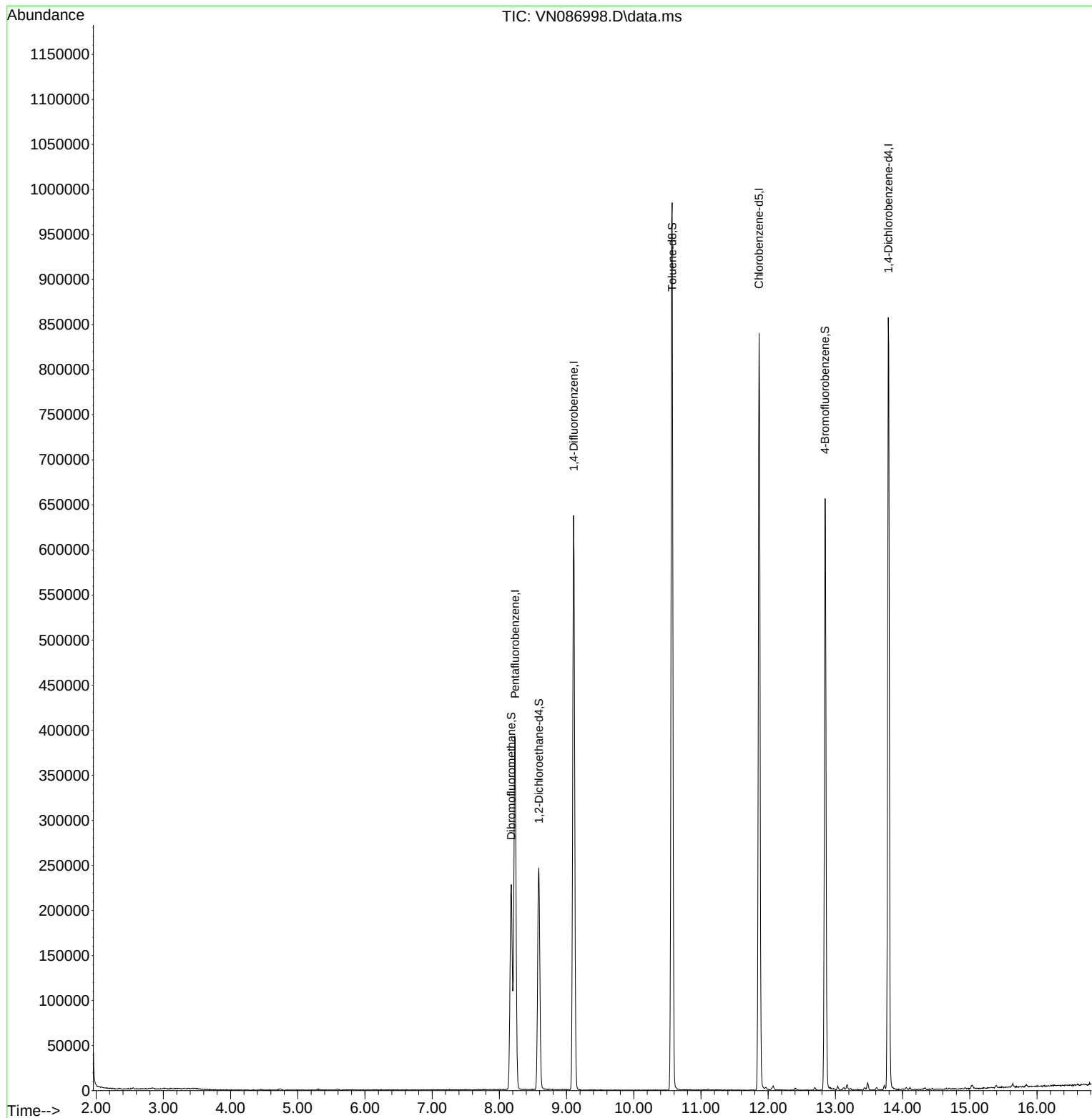
Target Compounds	Qvalue

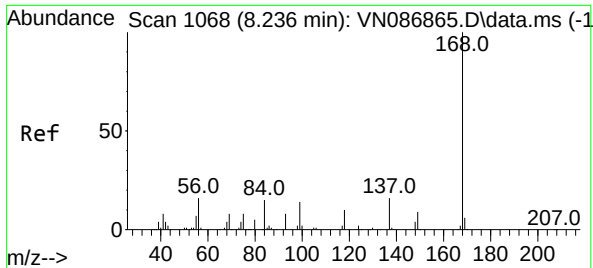
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086998.D
Acq On : 13 Jun 2025 13:47
Operator : JC\MD
Sample : VN0613WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

Quant Time: Jun 14 00:27:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

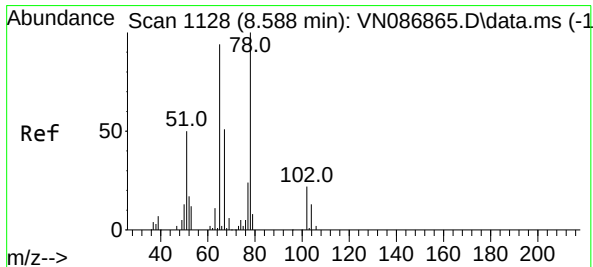
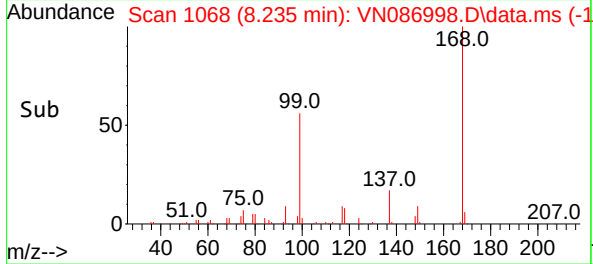
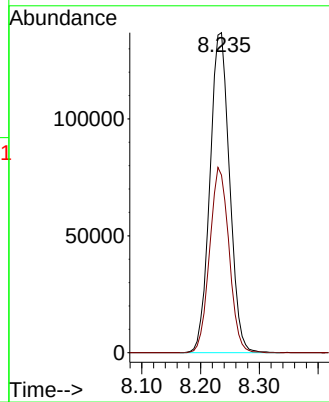
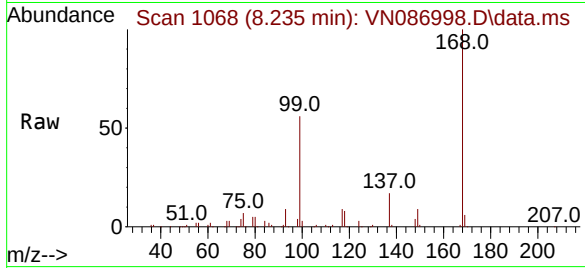




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

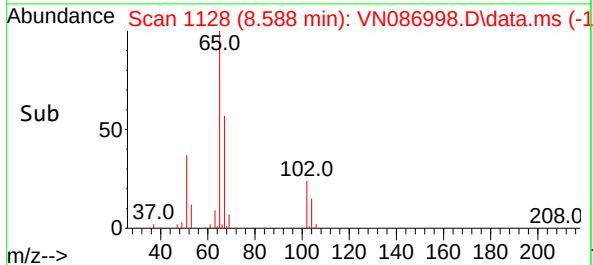
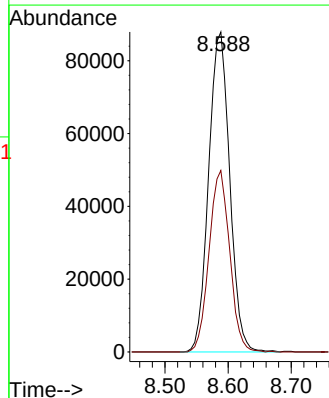
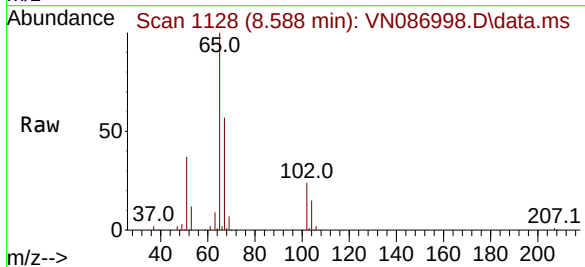
Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

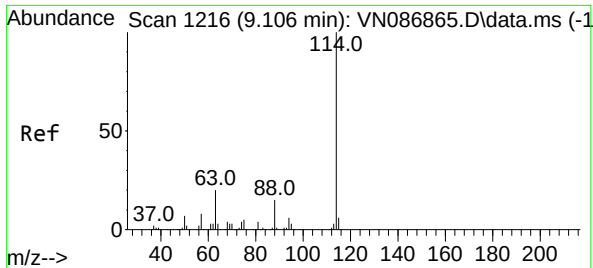
Tgt Ion:168 Resp: 317214
Ion Ratio Lower Upper
168 100
99 55.5 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 47.949 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

Tgt Ion: 65 Resp: 203647
Ion Ratio Lower Upper
65 100
67 55.5 0.0 105.6

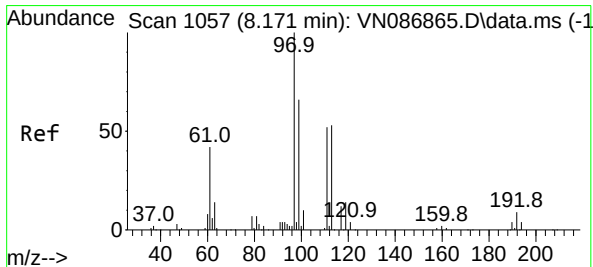
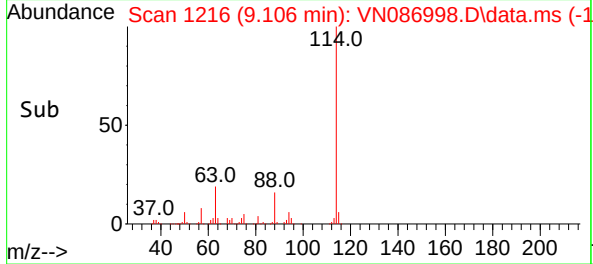
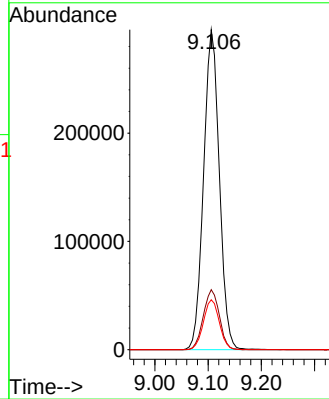
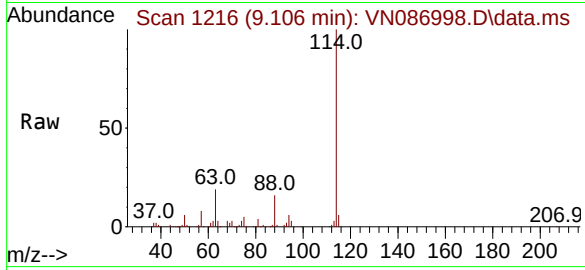




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

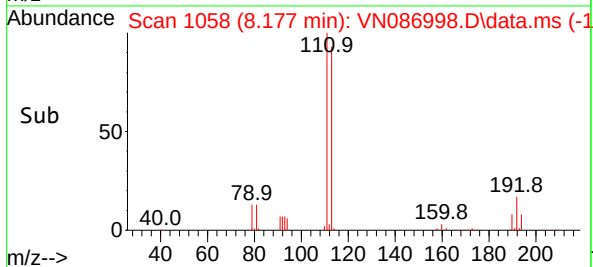
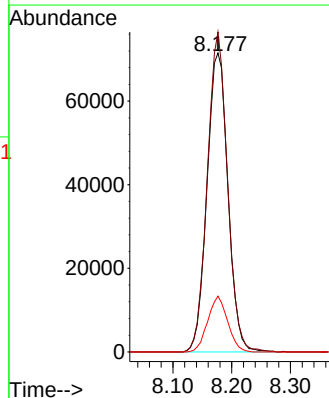
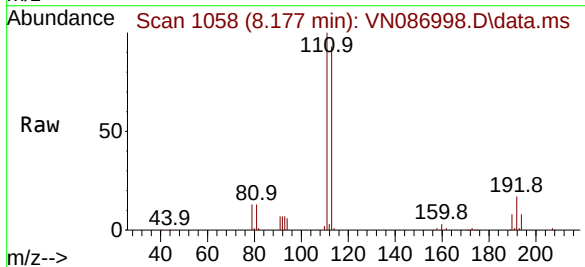
Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

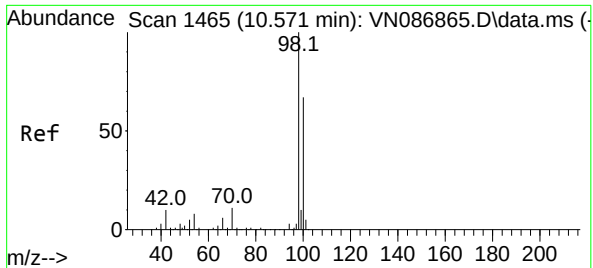
Tgt Ion:	114	Resp:	606954
Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.6
88	15.6	0.0	30.2



#35
Dibromofluoromethane
Concen: 49.301 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

Tgt Ion:	113	Resp:	177333
Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	17.7	14.2	21.4

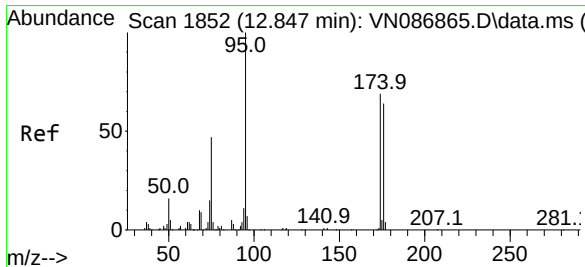
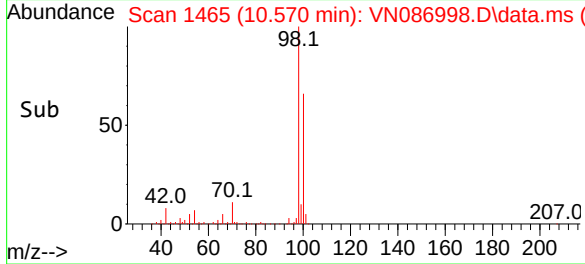
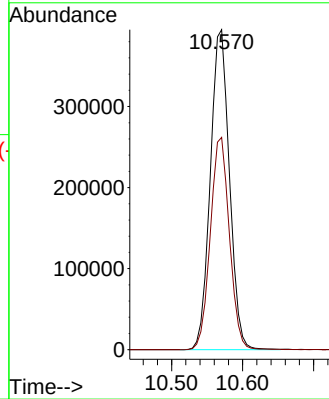
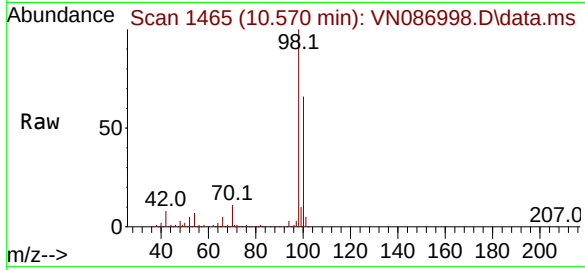




#50
Toluene-d8
Concen: 51.781 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

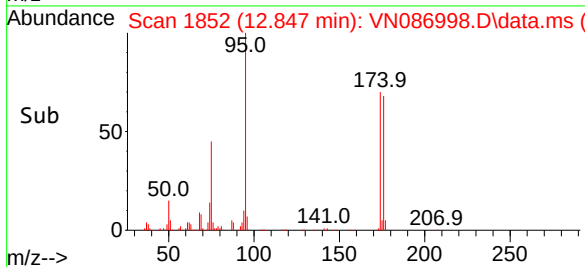
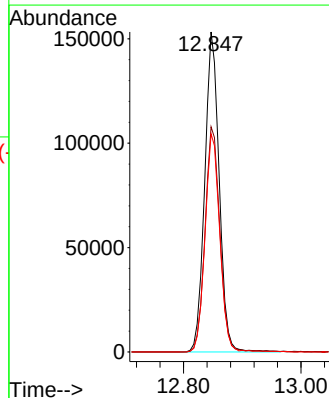
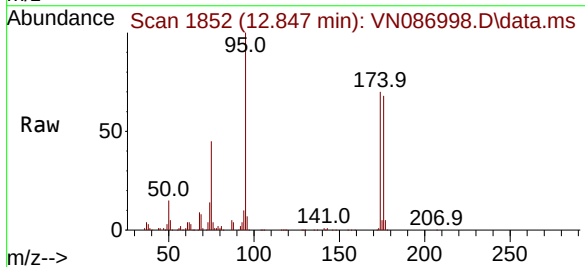
Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

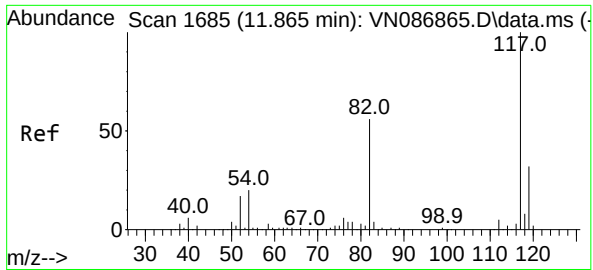
Tgt Ion: 98 Resp: 737326
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.506 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

Tgt Ion: 95 Resp: 261903
Ion Ratio Lower Upper
95 100
174 72.4 0.0 141.8
176 69.3 0.0 132.6

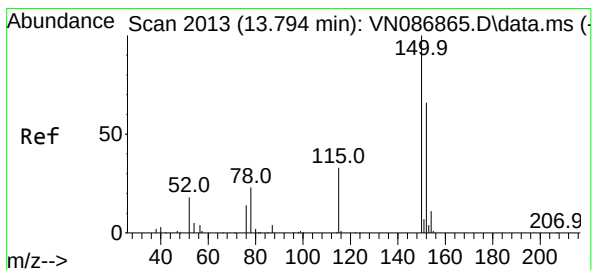
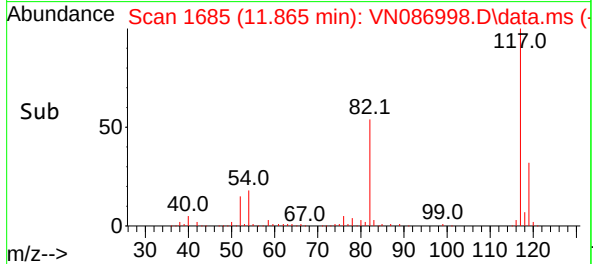
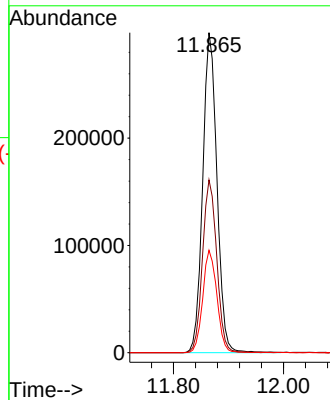
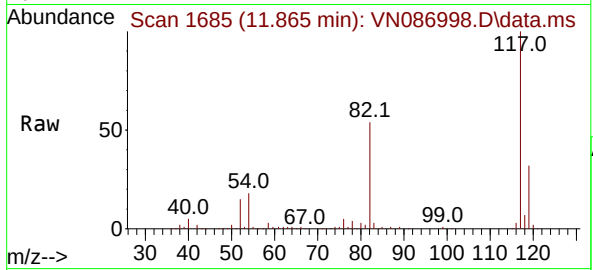




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

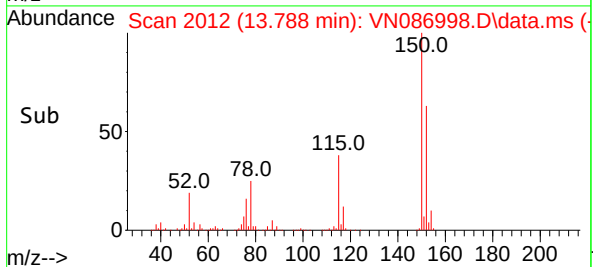
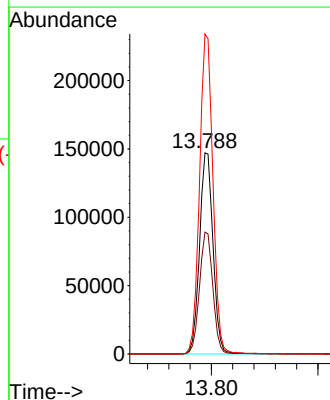
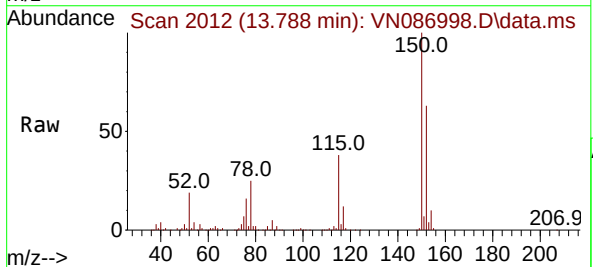
Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

Tgt Ion:117 Resp: 536496
Ion Ratio Lower Upper
117 100
82 54.0 44.6 67.0
119 32.0 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086998.D
Acq: 13 Jun 2025 13:47

Tgt Ion:152 Resp: 258118
Ion Ratio Lower Upper
152 100
115 60.0 30.1 90.5
150 157.8 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086998.D
Acq On : 13 Jun 2025 13:47
Operator : JC\MD
Sample : VN0613WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN086998.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	227410	541411	29.31%	5.832%
2	8.229	1062	1067	1082	rVB	390900	900893	48.77%	9.704%
3	8.588	1118	1128	1140	rBV	246205	570264	30.87%	6.142%
4	9.106	1206	1216	1231	rBV	637385	1313866	71.12%	14.152%
5	10.570	1454	1465	1478	rBV	984884	1847385	100.00%	19.899%
6	11.865	1677	1685	1699	rBV	839818	1519496	82.25%	16.367%
7	12.847	1844	1852	1862	rBV	656369	1117102	60.47%	12.033%
8	13.788	2005	2012	2023	rBV	855638	1473543	79.76%	15.872%

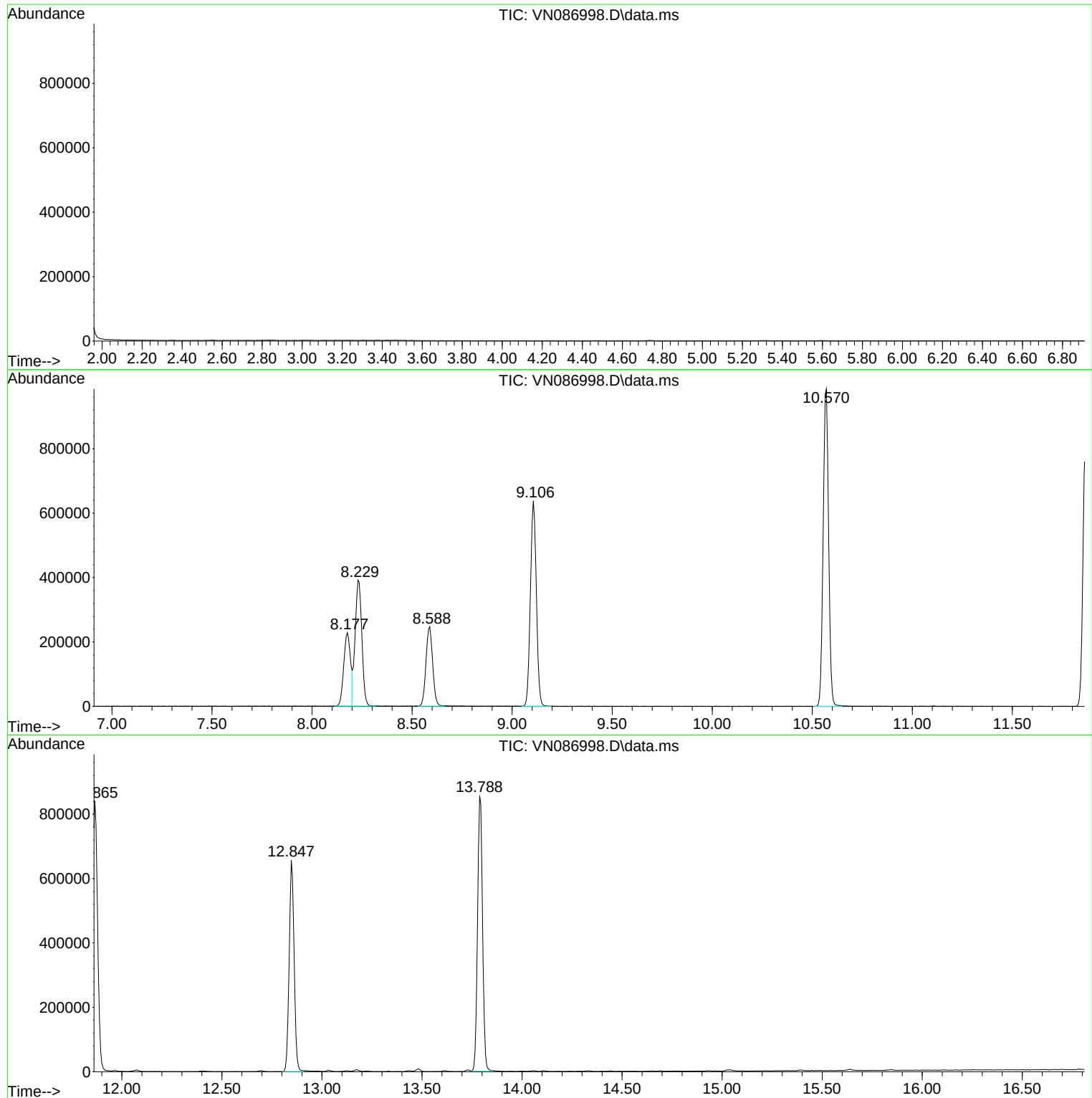
Sum of corrected areas: 9283960

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086998.D
Acq On : 13 Jun 2025 13:47
Operator : JC\MD
Sample : VN0613WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN086998.D
Acq On : 13 Jun 2025 13:47
Operator : JC\MD
Sample : VN0613WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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\VN061325\
Data File : VN086998.D
Acq On : 13 Jun 2025 13:47
Operator : JC\MD
Sample : VN0613WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0616WBL01	SDG No.:	Q2268
Lab Sample ID:	VN0616WBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087019.D	1		06/16/25 10:43	VN061625

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:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0616WBL01		SDG No.:	Q2268
Lab Sample ID:	VN0616WBL01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN087019.D	1		06/16/25 10:43	VN061625

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	50.4		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	52.1		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		77 - 121	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	283000	8.229			
540-36-3	1,4-Difluorobenzene	557000	9.106			
3114-55-4	Chlorobenzene-d5	493000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	236000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0616WBL01		SDG No.:	Q2268
Lab Sample ID:	VN0616WBL01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN087019.D	1		06/16/25 10:43	VN061625

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\VN061625\
 Data File : VN087019.D
 Acq On : 16 Jun 2025 10:43
 Operator : JC\MD
 Sample : VN0616WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBL01

Quant Time: Jun 17 07:18:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	283331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	556820	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	493060	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	235789	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	191298	50.428	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.860%
35) Dibromofluoromethane	8.177	113	166223	50.373	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.740%
50) Toluene-d8	10.565	98	680742	52.111	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.220%
62) 4-Bromofluorobenzene	12.847	95	238898	49.223	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.440%

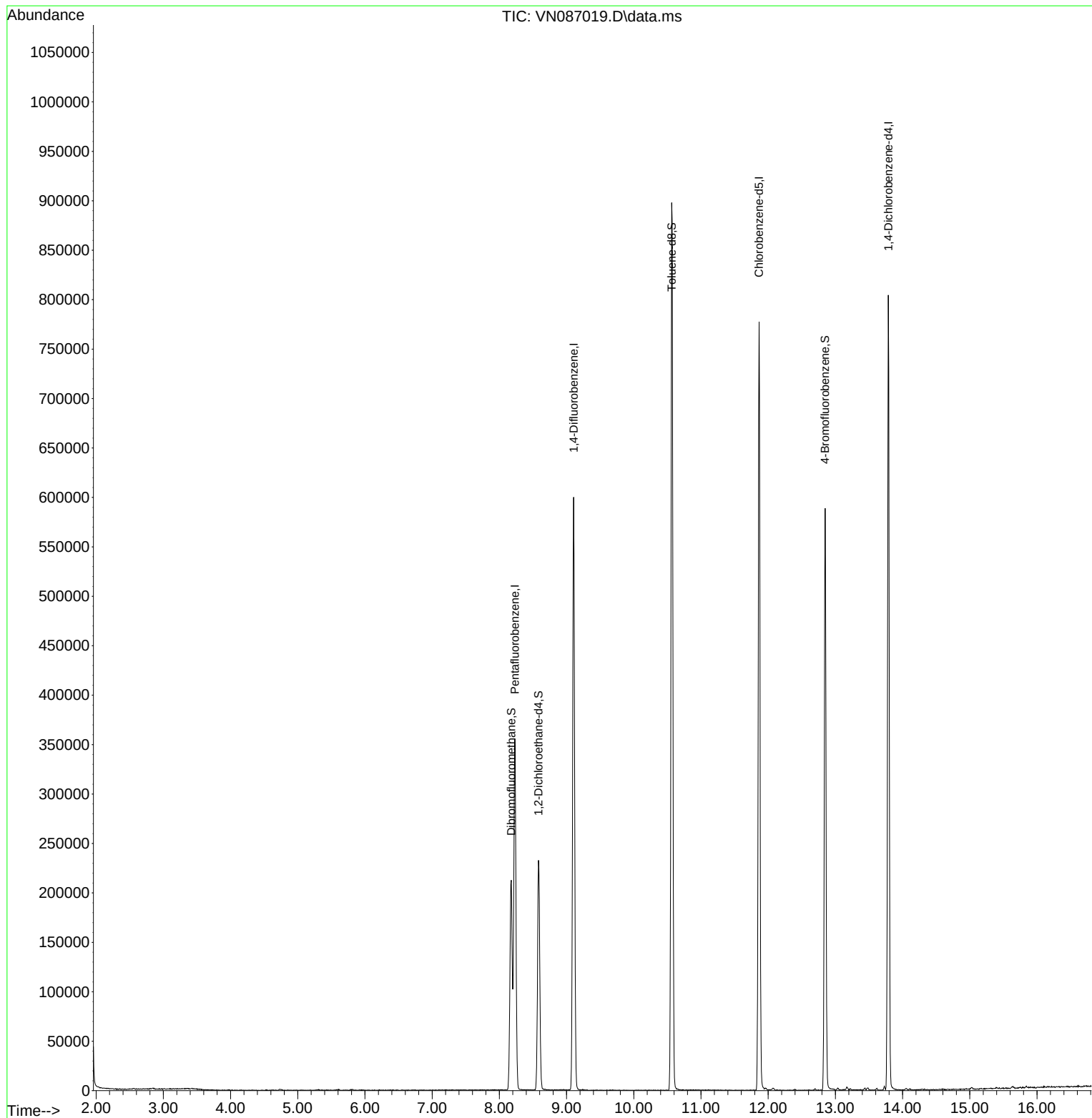
Target Compounds	Qvalue

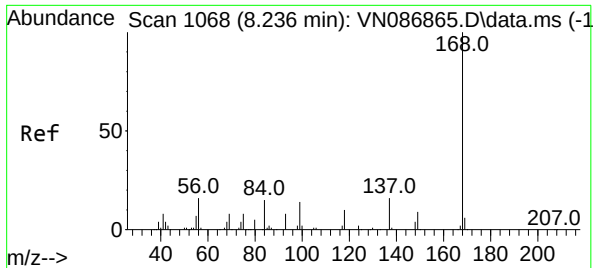
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087019.D
Acq On : 16 Jun 2025 10:43
Operator : JC\MD
Sample : VN0616WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

Quant Time: Jun 17 07:18:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

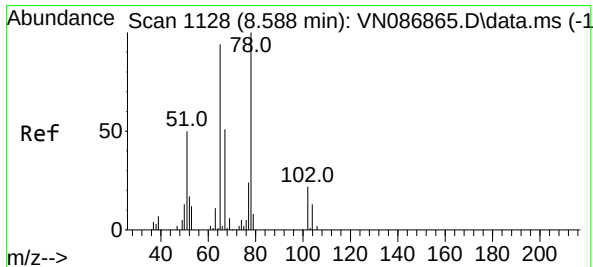
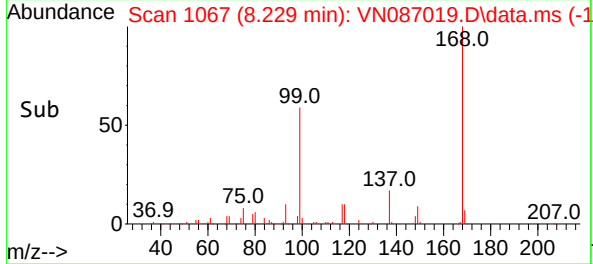
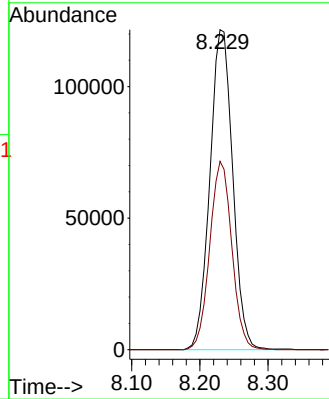
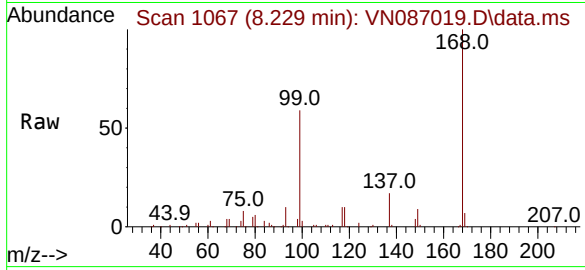




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1107
Delta R.T. -0.007 min
Lab File: VN087019.D
Acq: 16 Jun 2025 10:43

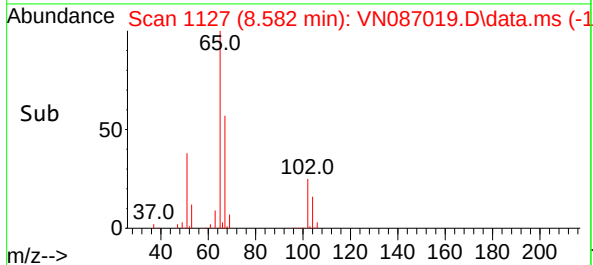
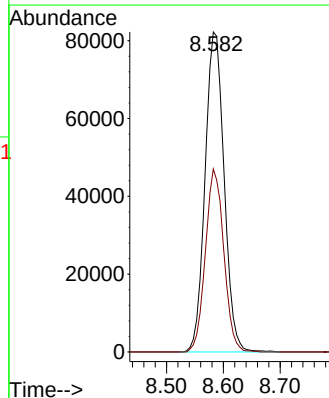
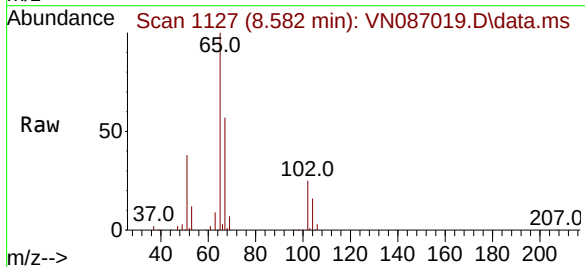
Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

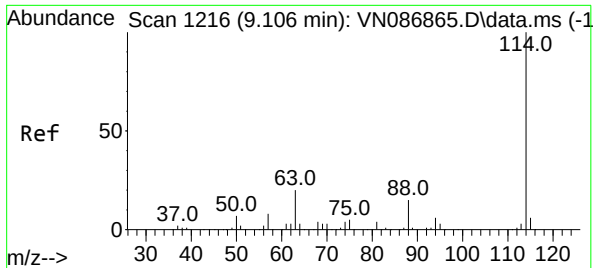
Tgt Ion:168 Resp: 283331
Ion Ratio Lower Upper
168 100
99 58.9 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 50.428 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087019.D
Acq: 16 Jun 2025 10:43

Tgt Ion: 65 Resp: 191298
Ion Ratio Lower Upper
65 100
67 55.2 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087019.D

Acq: 16 Jun 2025 10:43

Instrument :

MSVOA_N

ClientSampleId :

VN0616WBL01

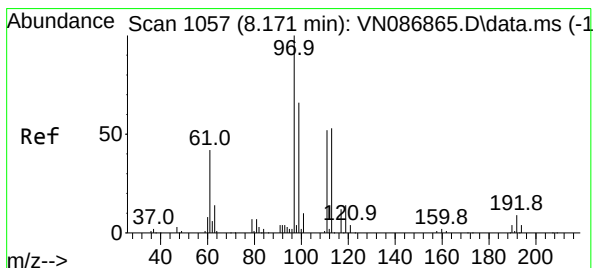
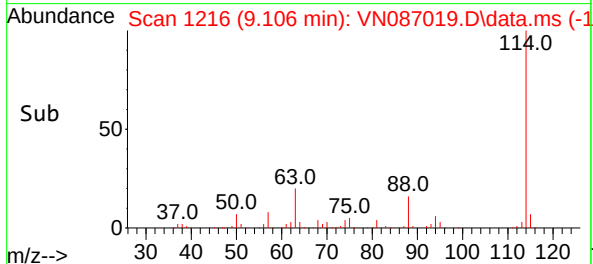
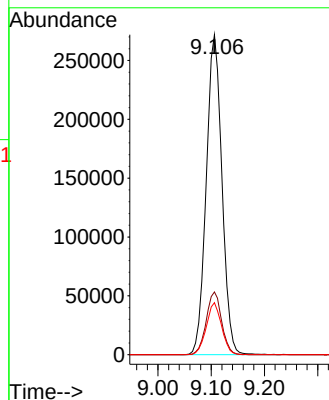
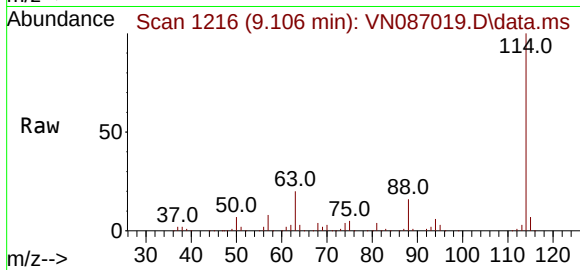
Tgt Ion:114 Resp: 556820

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 16.2 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.373 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087019.D

Acq: 16 Jun 2025 10:43

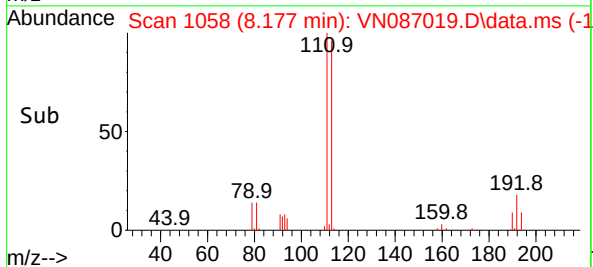
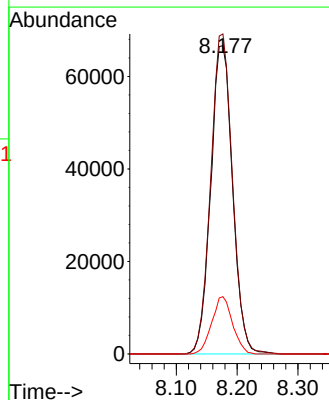
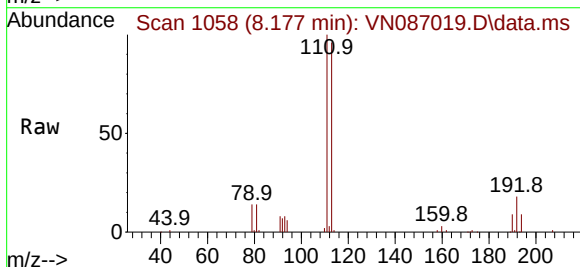
Tgt Ion:113 Resp: 166223

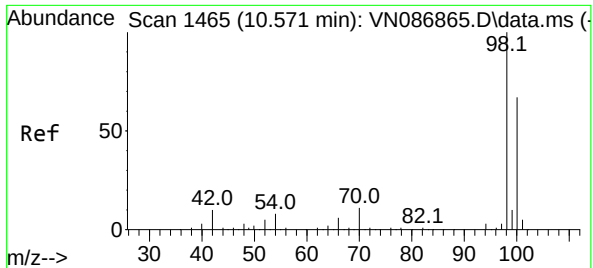
Ion Ratio Lower Upper

113 100

111 103.3 84.2 126.2

192 17.7 14.2 21.4

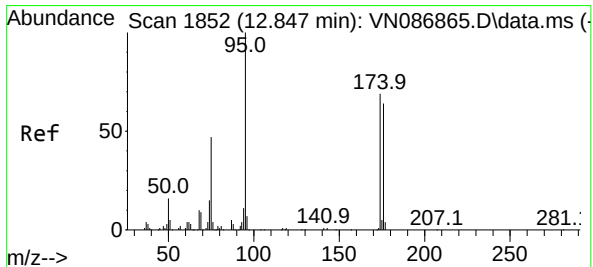
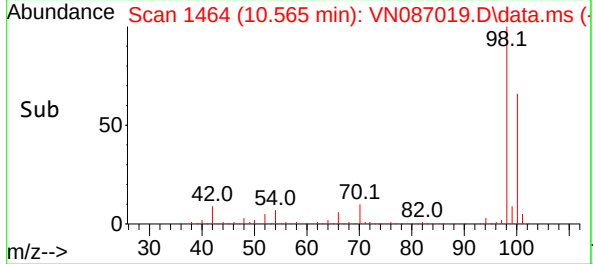
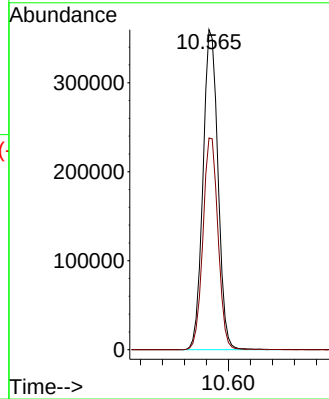
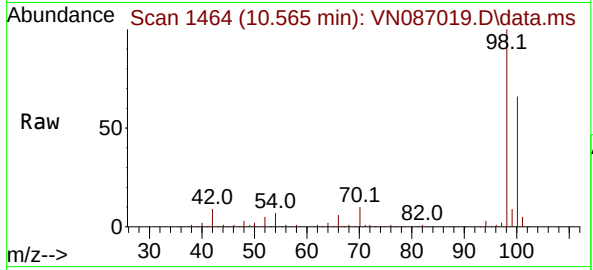




#50
Toluene-d8
Concen: 52.111 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087019.D
Acq: 16 Jun 2025 10:43

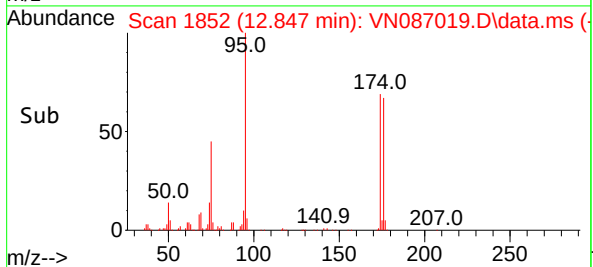
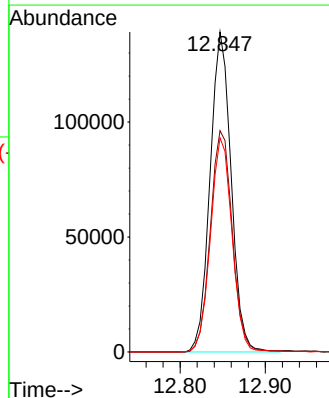
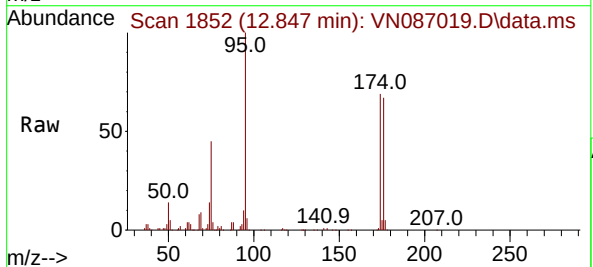
Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

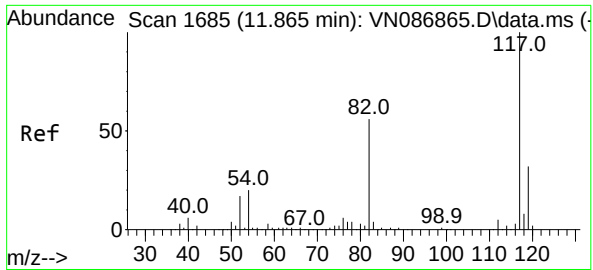
Tgt Ion: 98 Resp: 680742
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.223 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087019.D
Acq: 16 Jun 2025 10:43

Tgt Ion: 95 Resp: 238898
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 68.5 0.0 132.6

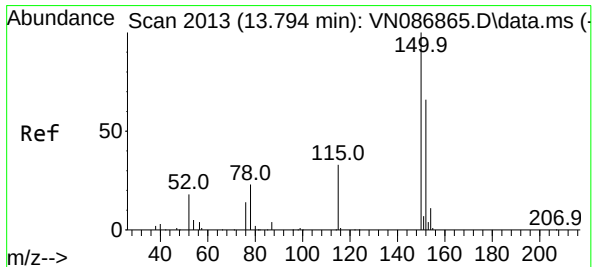
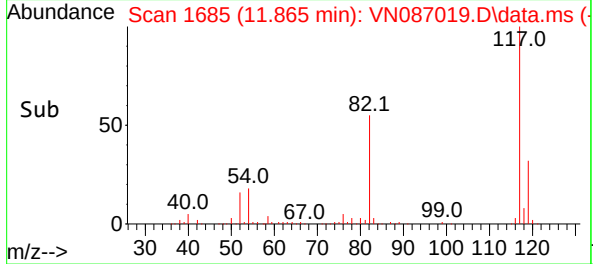
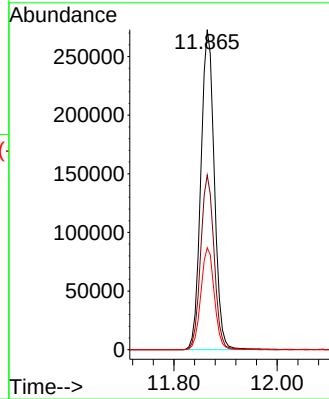
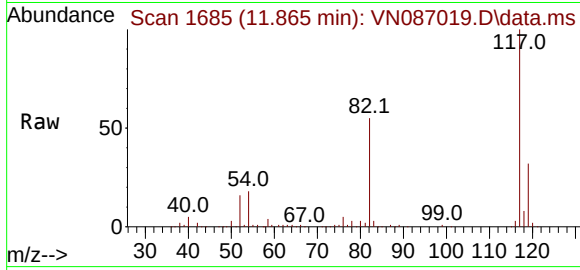




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087019.D
Acq: 16 Jun 2025 10:43

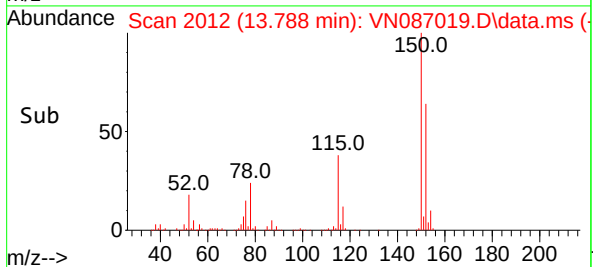
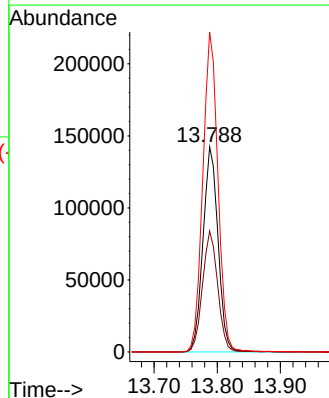
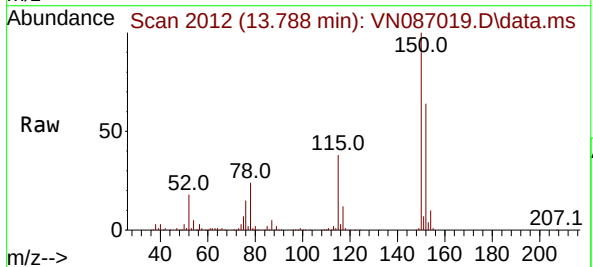
Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

Tgt Ion:117 Resp: 493060
Ion Ratio Lower Upper
117 100
82 54.6 44.6 67.0
119 31.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087019.D
Acq: 16 Jun 2025 10:43

Tgt Ion:152 Resp: 235789
Ion Ratio Lower Upper
152 100
115 59.5 30.1 90.5
150 157.2 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087019.D
Acq On : 16 Jun 2025 10:43
Operator : JC\MD
Sample : VN0616WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

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\82N060625W.M

Title : SW846 8260

Signal : TIC: VN087019.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.177	1047	1058	1062	rBV	212214	517809	30.33%	6.057%
2	8.229	1062	1067	1079	rVB	354864	801258	46.94%	9.372%
3	8.582	1118	1127	1140	rBV	232169	533999	31.28%	6.246%
4	9.106	1205	1216	1236	rBV	599804	1216985	71.29%	14.235%
5	10.565	1455	1464	1478	rBV	897909	1707161	100.00%	19.968%
6	11.865	1677	1685	1698	rBV	777408	1402361	82.15%	16.403%
7	12.847	1845	1852	1865	rBV	588544	1025537	60.07%	11.996%
8	13.788	2005	2012	2022	rBV	803576	1344170	78.74%	15.723%

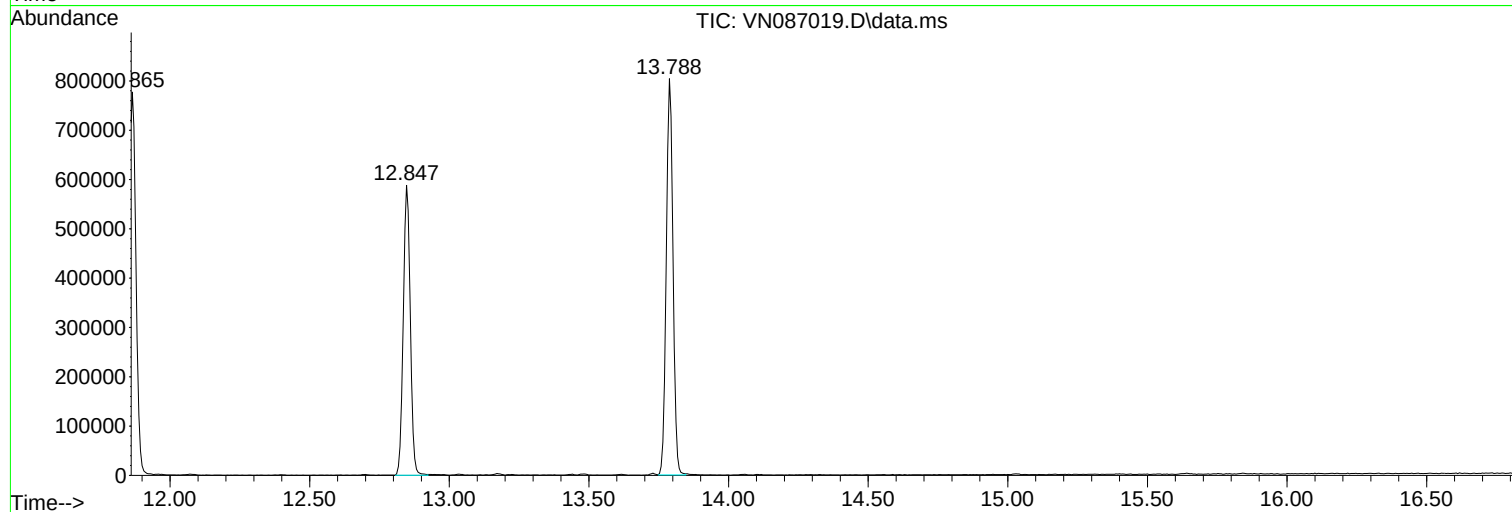
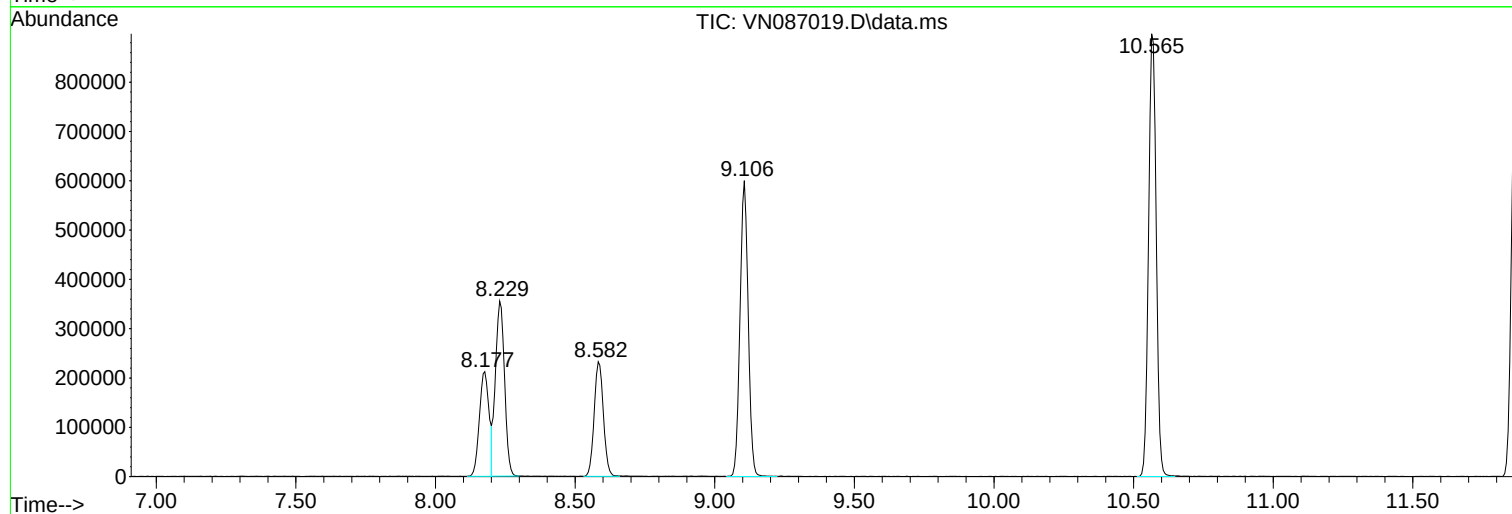
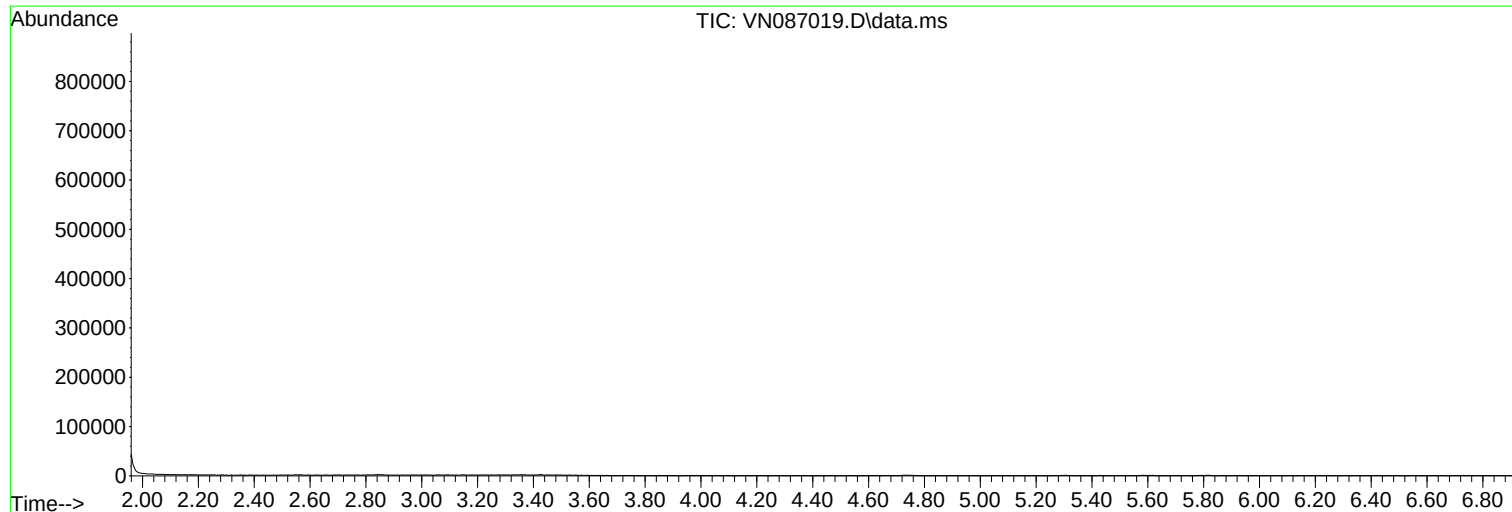
Sum of corrected areas: 8549280

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087019.D
Acq On : 16 Jun 2025 10:43
Operator : JC\MD
Sample : VN0616WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087019.D
Acq On : 16 Jun 2025 10:43
Operator : JC\MD
Sample : VN0616WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.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\VN061625\
Data File : VN087019.D
Acq On : 16 Jun 2025 10:43
Operator : JC\MD
Sample : VN0616WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	
Client Sample ID:	VN0612WBS01			SDG No.:	Q2268
Lab Sample ID:	VN0612WBS01			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086970.D	1		06/12/25 12:17	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.1		0.22	1.00	ug/L
74-87-3	Chloromethane	17.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	21.0		0.26	1.00	ug/L
74-83-9	Bromomethane	17.5		1.40	5.00	ug/L
75-00-3	Chloroethane	21.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.7		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.1		0.23	1.00	ug/L
67-64-1	Acetone	98.2		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	19.0		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.0		0.27	1.00	ug/L
75-09-2	Methylene Chloride	21.2		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	22.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.9		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	22.0		0.19	1.00	ug/L
74-97-5	Bromochloromethane	23.7		0.22	1.00	ug/L
67-66-3	Chloroform	21.9		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.7		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	17.5		0.16	1.00	ug/L
71-43-2	Benzene	21.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	21.0		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	22.3		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	22.0		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	21.1		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0612WBS01		SDG No.:	Q2268
Lab Sample ID:	VN0612WBS01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086970.D	1		06/12/25 12:17	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	22.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	22.0		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	97.9		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	22.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.9		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	42.5		0.24	2.00	ug/L
95-47-6	o-Xylene	21.4		0.12	1.00	ug/L
100-42-5	Styrene	21.4		0.15	1.00	ug/L
75-25-2	Bromoform	22.9		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.7		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	22.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.9		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.6		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.6		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	53.3		86 - 113	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.4		77 - 121	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	8.236			
540-36-3	1,4-Difluorobenzene	314000	9.106			
3114-55-4	Chlorobenzene-d5	275000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0612WBS01		SDG No.:	Q2268
Lab Sample ID:	VN0612WBS01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086970.D	1		06/12/25 12:17	VN061225

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\VN061225\
 Data File : VN086970.D
 Acq On : 12 Jun 2025 12:17
 Operator : JC\MD
 Sample : VN0612WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:25:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	173273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	314156	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	274906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136822	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	125156	53.948	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.900%			
35) Dibromofluoromethane	8.177	113	103933	55.825	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.660%			
50) Toluene-d8	10.571	98	392546	53.261	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.520%			
62) 4-Bromofluorobenzene	12.847	95	148970	54.403	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.800%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	36460	21.104	ug/l	97
3) Chloromethane	2.401	50	38958	17.463	ug/l	97
4) Vinyl Chloride	2.554	62	48328	21.000	ug/l	98
5) Bromomethane	3.001	94	22531	17.495	ug/l	97
6) Chloroethane	3.159	64	32356	21.766	ug/l	92
7) Trichlorofluoromethane	3.530	101	65233	21.695	ug/l	95
8) Diethyl Ether	3.983	74	28350	21.641	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.395	101	40180	21.270	ug/l	98
10) Methyl Iodide	4.618	142	23501	9.597	ug/l	97
11) Tert butyl alcohol	5.536	59	65618	104.240	ug/l	99
12) 1,1-Dichloroethene	4.365	96	40676	21.091	ug/l	93
13) Acrolein	4.200	56	33747	169.365	ug/l	99
14) Allyl chloride	5.047	41	63299	19.791	ug/l	98
15) Acrylonitrile	5.736	53	156430	106.318	ug/l	100
16) Acetone	4.447	43	120863	98.240	ug/l	96
17) Carbon Disulfide	4.736	76	101323	18.993	ug/l	100
18) Methyl Acetate	5.047	43	78773	21.972	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	152749	21.875	ug/l	98
20) Methylene Chloride	5.295	84	48876	21.220	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	43818	20.421	ug/l	92
22) Diisopropyl ether	6.689	45	145101	21.522	ug/l	97
23) Vinyl Acetate	6.618	43	611650	107.377	ug/l	98
24) 1,1-Dichloroethane	6.589	63	85515	22.040	ug/l	99
25) 2-Butanone	7.494	43	205713	102.868	ug/l	98
26) 2,2-Dichloropropane	7.506	77	71534	23.702	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	56478	22.009	ug/l	96
28) Bromochloromethane	7.824	49	45259	23.725	ug/l	97
29) Tetrahydrofuran	7.853	42	135775	104.225	ug/l	98
30) Chloroform	7.977	83	84684	21.856	ug/l	98
31) Cyclohexane	8.265	56	71299	18.949	ug/l	99
32) 1,1,1-Trichloroethane	8.183	97	71493	21.694	ug/l	95
36) 1,1-Dichloropropene	8.383	75	58526	21.096	ug/l	99
37) Ethyl Acetate	7.571	43	74748	21.166	ug/l	99
38) Carbon Tetrachloride	8.371	117	58792	21.586	ug/l	95
39) Methylcyclohexane	9.606	83	66682	17.544	ug/l	98
40) Benzene	8.612	78	193460	21.326	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086970.D
 Acq On : 12 Jun 2025 12:17
 Operator : JC\MD
 Sample : VN0612WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0612WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:25:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.794	41	41896	21.124	ug/l	97
42) 1,2-Dichloroethane	8.677	62	59956	21.790	ug/l	99
43) Isopropyl Acetate	8.694	43	117544	20.737	ug/l	98
44) Trichloroethene	9.359	130	45088	20.961	ug/l	98
45) 1,2-Dichloropropane	9.624	63	49243	22.312	ug/l	100
46) Dibromomethane	9.712	93	32843	22.404	ug/l	98
47) Bromodichloromethane	9.894	83	66358	22.001	ug/l	98
48) Methyl methacrylate	9.688	41	52047	19.950	ug/l	98
49) 1,4-Dioxane	9.706	88	21261	447.966	ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	359377	105.318	ug/l	98
52) Toluene	10.629	92	116927	21.091	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	74495	22.088	ug/l	95
54) cis-1,3-Dichloropropene	10.318	75	79382	21.998	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	48547	22.758	ug/l	98
56) Ethyl methacrylate	10.882	69	73030	21.494	ug/l	97
57) 1,3-Dichloropropane	11.165	76	80790	21.832	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	200203	98.789	ug/l	100
59) 2-Hexanone	11.206	43	215266	97.938	ug/l	95
60) Dibromochloromethane	11.359	129	49479	22.262	ug/l	99
61) 1,2-Dibromoethane	11.471	107	48402	22.136	ug/l	98
64) Tetrachloroethene	11.106	164	34241	19.681	ug/l	98
65) Chlorobenzene	11.894	112	131549	21.697	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	43218	22.175	ug/l	99
67) Ethyl Benzene	11.965	91	217992	20.873	ug/l	98
68) m/p-Xylenes	12.071	106	169820	42.478	ug/l	99
69) o-Xylene	12.400	106	82017	21.421	ug/l	100
70) Styrene	12.412	104	140183	21.396	ug/l	99
71) Bromoform	12.576	173	33139	22.948	ug/l #	99
73) Isopropylbenzene	12.694	105	204530	20.519	ug/l	99
74) N-amyl acetate	12.535	43	56544	16.234	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.941	83	76512	22.658	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	66026m	20.301	ug/l	
77) Bromobenzene	12.982	156	50066	21.902	ug/l	98
78) n-propylbenzene	13.035	91	247511	20.433	ug/l	99
79) 2-Chlorotoluene	13.123	91	152249	20.958	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	170818	20.757	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	27273	19.304	ug/l	98
82) 4-Chlorotoluene	13.218	91	155948	21.216	ug/l	99
83) tert-Butylbenzene	13.435	119	151864	20.160	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	169546	20.546	ug/l	98
85) sec-Butylbenzene	13.618	105	210831	19.272	ug/l	100
86) p-Isopropyltoluene	13.729	119	175806	19.441	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	95865	21.315	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	100746	21.971	ug/l	99
89) n-Butylbenzene	14.053	91	163452	18.661	ug/l	99
90) Hexachloroethane	14.329	117	30880	20.146	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	94471	21.864	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16648	20.615	ug/l	95
93) 1,2,4-Trichlorobenzene	15.394	180	54215	19.649	ug/l	98
94) Hexachlorobutadiene	15.500	225	17038	16.574	ug/l	98
95) Naphthalene	15.635	128	210396	20.486	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	52332	19.090	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086970.D
Acq On : 12 Jun 2025 12:17
Operator : JC\MD
Sample : VN0612WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:25:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

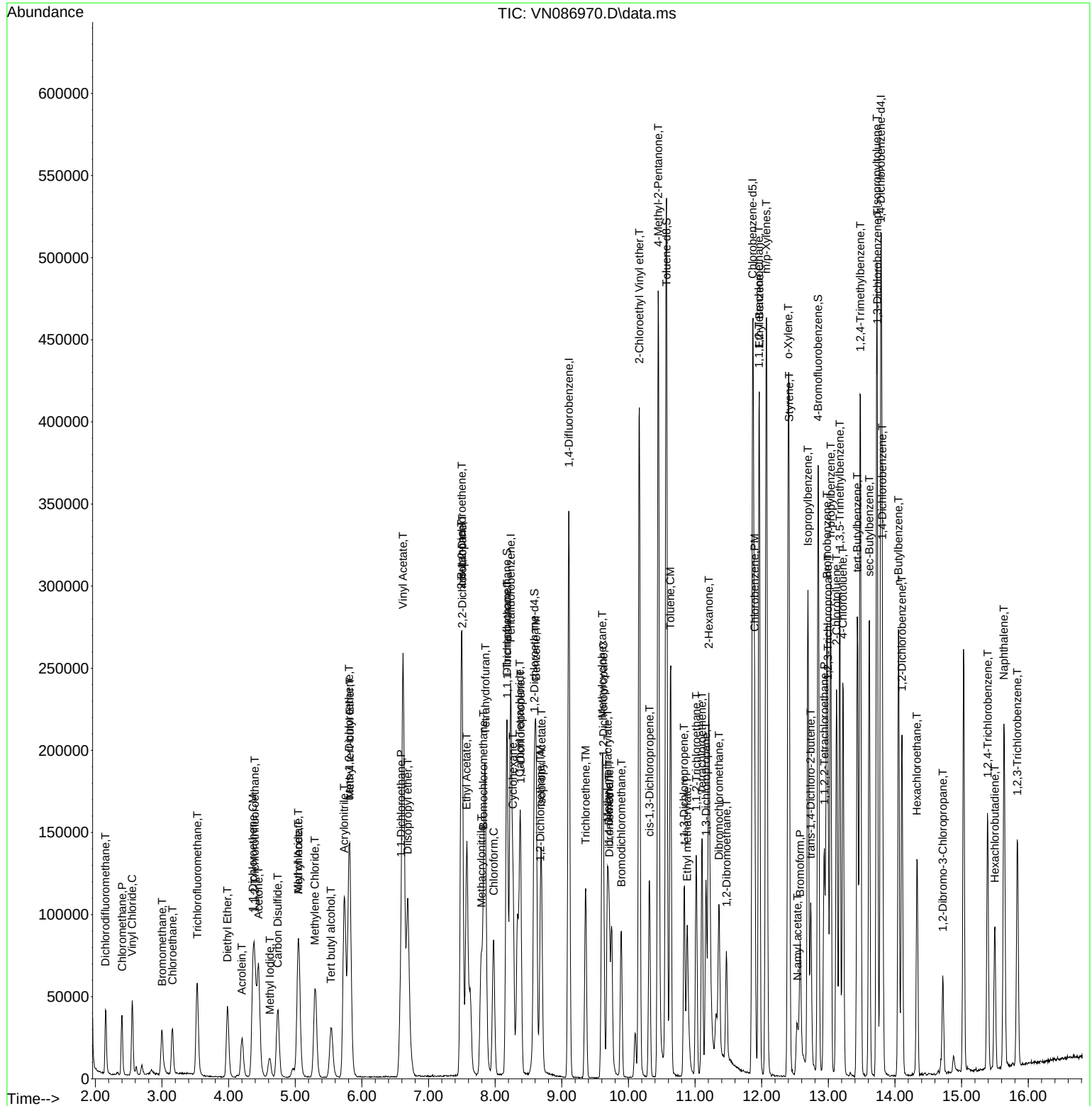

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\  
Data File : VN086970.D  
Acq On    : 12 Jun 2025  12:17  
Operator   : JC\MD  
Sample     : VN0612WBS01  
Misc       : 5.0mL/MSVOA_N/WATER  
ALS Vial   : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0612WBS01

Manual Integrations

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:25:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0613WBS01		SDG No.:	Q2268
Lab Sample ID:	VN0613WBS01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN087000.D	1		06/13/25 14:32	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.5		0.22	1.00	ug/L
74-87-3	Chloromethane	18.6		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	22.4		0.26	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	5.00	ug/L
75-00-3	Chloroethane	21.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.6		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	22.2		0.23	1.00	ug/L
67-64-1	Acetone	86.7		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	23.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.2		0.27	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.5		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.7		1.50	5.00	ug/L
78-93-3	2-Butanone	91.2		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	21.7		0.22	1.00	ug/L
67-66-3	Chloroform	20.5		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	19.2		0.16	1.00	ug/L
71-43-2	Benzene	21.5		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.1		0.22	1.00	ug/L
79-01-6	Trichloroethene	21.9		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	99.2		0.68	5.00	ug/L
108-88-3	Toluene	21.8		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0613WBS01		SDG No.:	Q2268
Lab Sample ID:	VN0613WBS01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN087000.D	1		06/13/25 14:32	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.3		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	89.7		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	21.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	21.7		0.23	1.00	ug/L
108-90-7	Chlorobenzene	21.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	21.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	43.9		0.24	2.00	ug/L
95-47-6	o-Xylene	22.0		0.12	1.00	ug/L
100-42-5	Styrene	21.6		0.15	1.00	ug/L
75-25-2	Bromoform	22.7		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	20.3		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.2		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	21.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.1		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.5		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.5		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	48.5		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	194000	8.23			
540-36-3	1,4-Difluorobenzene	343000	9.106			
3114-55-4	Chlorobenzene-d5	298000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0613WBS01	SDG No.:	Q2268
Lab Sample ID:	VN0613WBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087000.D	1		06/13/25 14:32	VN061325

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\VN061325\
 Data File : VN087000.D
 Acq On : 13 Jun 2025 14:32
 Operator : JC\MD
 Sample : VN0613WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0613WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2025
 Supervised By : Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:27:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	193820	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	342767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150656	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	120719	46.519	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.040%		
35) Dibromofluoromethane	8.177	113	104273	51.333	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.660%		
50) Toluene-d8	10.571	98	390057	48.506	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.020%		
62) 4-Bromofluorobenzene	12.847	95	148021	49.545	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.080%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	41501	21.475	ug/l	97
3) Chloromethane	2.401	50	46368	18.581	ug/l	100
4) Vinyl Chloride	2.553	62	57688	22.410	ug/l	97
5) Bromomethane	3.000	94	26677	18.519	ug/l	99
6) Chloroethane	3.159	64	36269	21.812	ug/l	97
7) Trichlorofluoromethane	3.530	101	72691	21.613	ug/l	97
8) Diethyl Ether	3.983	74	30759	20.990	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.400	101	44545	21.081	ug/l	98
10) Methyl Iodide	4.618	142	23587	8.611	ug/l	98
11) Tert butyl alcohol	5.541	59	64325	91.353	ug/l	100
12) 1,1-Dichloroethene	4.365	96	47822	22.168	ug/l	89
13) Acrolein	4.200	56	35766	160.469	ug/l	100
14) Allyl chloride	5.047	41	68500	19.146	ug/l	97
15) Acrylonitrile	5.741	53	161726	98.265	ug/l	99
16) Acetone	4.447	43	119345	86.723	ug/l	94
17) Carbon Disulfide	4.742	76	139889	23.443	ug/l	99
18) Methyl Acetate	5.047	43	64994	16.206	ug/l	98
19) Methyl tert-butyl Ether	5.818	73	157327	20.142	ug/l	98
20) Methylene Chloride	5.294	84	52509	20.381	ug/l	96
21) trans-1,2-Dichloroethene	5.818	96	51262	21.358	ug/l	88
22) Diisopropyl ether	6.688	45	149851	19.870	ug/l	97
23) Vinyl Acetate	6.618	43	658350	103.323	ug/l	97
24) 1,1-Dichloroethane	6.588	63	89124	20.535	ug/l	98
25) 2-Butanone	7.494	43	204093	91.238	ug/l	96
26) 2,2-Dichloropropane	7.506	77	75997	22.511	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	61840	21.544	ug/l	96
28) Bromochloromethane	7.830	49	46335	21.714	ug/l	93
29) Tetrahydrofuran	7.853	42	136050	93.364	ug/l	95
30) Chloroform	7.977	83	88860	20.502	ug/l	99
31) Cyclohexane	8.265	56	83030	19.727	ug/l	97
32) 1,1,1-Trichloroethane	8.182	97	74968	20.337	ug/l	97
36) 1,1-Dichloropropene	8.382	75	66350	21.920	ug/l	100
37) Ethyl Acetate	7.571	43	76639	19.890	ug/l	98
38) Carbon Tetrachloride	8.371	117	63596	21.401	ug/l	98
39) Methylcyclohexane	9.606	83	79523	19.176	ug/l	96
40) Benzene	8.618	78	212565	21.476	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
 Data File : VN087000.D
 Acq On : 13 Jun 2025 14:32
 Operator : JC\MD
 Sample : VN0613WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0613WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2025
 Supervised By : Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:27:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	42730	19.746	ug/l	96
42) 1,2-Dichloroethane	8.677	62	63301	21.085	ug/l	98
43) Isopropyl Acetate	8.694	43	119151	19.266	ug/l	97
44) Trichloroethene	9.359	130	51301	21.858	ug/l	95
45) 1,2-Dichloropropane	9.629	63	50395	20.928	ug/l	100
46) Dibromomethane	9.712	93	35265	22.048	ug/l	99
47) Bromodichloromethane	9.894	83	70308	21.365	ug/l	96
48) Methyl methacrylate	9.682	41	54185	19.036	ug/l	96
49) 1,4-Dioxane	9.706	88	21540	415.962	ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	369197	99.165	ug/l	99
52) Toluene	10.629	92	131650	21.764	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	77555	21.076	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	83996	21.333	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	49569	21.297	ug/l	98
56) Ethyl methacrylate	10.882	69	77585	20.928	ug/l	95
57) 1,3-Dichloropropane	11.165	76	85360	21.141	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.165	63	209528	94.760	ug/l	98
59) 2-Hexanone	11.206	43	215181	89.728	ug/l	93
60) Dibromochloromethane	11.359	129	53055	21.878	ug/l	99
61) 1,2-Dibromoethane	11.470	107	51474	21.576	ug/l	100
64) Tetrachloroethene	11.106	164	41009	21.749	ug/l	96
65) Chlorobenzene	11.894	112	142528	21.690	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	47110	22.303	ug/l	97
67) Ethyl Benzene	11.965	91	241208	21.311	ug/l	98
68) m/p-Xylenes	12.070	106	190243	43.908	ug/l	98
69) o-Xylene	12.400	106	91163	21.969	ug/l	96
70) Styrene	12.412	104	153392	21.602	ug/l	100
71) Bromoform	12.582	173	35468	22.662	ug/l #	99
73) Isopropylbenzene	12.694	105	223178	20.334	ug/l	100
74) N-amyl acetate	12.529	43	58468	15.245	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.935	83	78224	21.038	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	67561m	18.866	ug/l	
77) Bromobenzene	12.982	156	54231	21.546	ug/l	96
78) n-propylbenzene	13.035	91	266686	19.994	ug/l	99
79) 2-Chlorotoluene	13.123	91	165392	20.677	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	183973	20.303	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.741	75	30824	19.814	ug/l	93
82) 4-Chlorotoluene	13.217	91	169312	20.919	ug/l	99
83) tert-Butylbenzene	13.435	119	161431	19.462	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	186915	20.570	ug/l	99
85) sec-Butylbenzene	13.612	105	228099	18.936	ug/l	100
86) p-Isopropyltoluene	13.729	119	188601	18.941	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	104746	21.151	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	107411	21.274	ug/l	99
89) n-Butylbenzene	14.053	91	173997	18.041	ug/l	99
90) Hexachloroethane	14.329	117	33086	19.603	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	98273	20.655	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17506	19.687	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	57950	19.074	ug/l	98
94) Hexachlorobutadiene	15.500	225	17458	15.423	ug/l	97
95) Naphthalene	15.635	128	222787	19.701	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	55693	18.450	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN087000.D
Acq On : 13 Jun 2025 14:32
Operator : JC\MD
Sample : VN0613WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:27:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

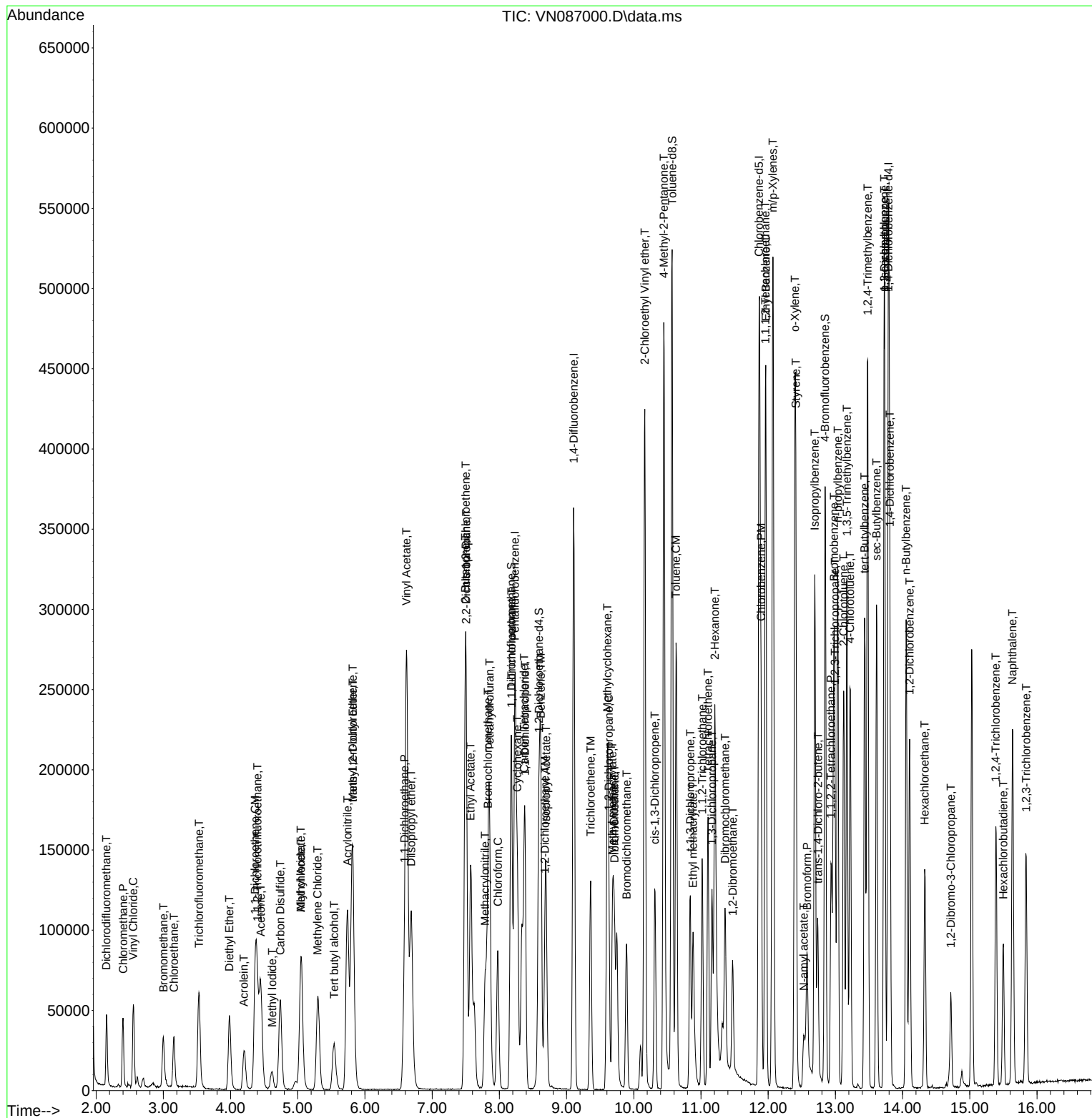
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061325\
Data File : VN087000.D
Acq On : 13 Jun 2025 14:32
Operator : JC\MD
Sample : VN0613WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0613WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/16/2025
Supervised By :Mahesh Dadoda 06/16/2025

Quant Time: Jun 14 00:27:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0616WBS01	SDG No.:	Q2268
Lab Sample ID:	VN0616WBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087020.D	1		06/16/25 11:04	VN061625

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	15.5		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.9		0.26	1.00	ug/L
74-83-9	Bromomethane	13.7		1.40	5.00	ug/L
75-00-3	Chloroethane	19.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.23	1.00	ug/L
67-64-1	Acetone	77.7		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	20.8		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	14.2		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.8		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.5		1.50	5.00	ug/L
78-93-3	2-Butanone	80.1		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.1		0.22	1.00	ug/L
67-66-3	Chloroform	18.3		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.0		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.16	1.00	ug/L
71-43-2	Benzene	19.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.4		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.6		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	85.8		0.68	5.00	ug/L
108-88-3	Toluene	19.1		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	
Client Sample ID:	VN0616WBS01		SDG No.:	Q2268
Lab Sample ID:	VN0616WBS01		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:	Prep Date	Date Analyzed	Prep Batch ID
VN087020.D	1		06/16/25 11:04	VN061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.8		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	18.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	77.8		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	19.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		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	19.9		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	18.8		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.6		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.0		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.9		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.0		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.0		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	45.4		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	8.229			
540-36-3	1,4-Difluorobenzene	351000	9.106			
3114-55-4	Chlorobenzene-d5	305000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	
Client Sample ID:	VN0616WBS01	SDG No.:	Q2268
Lab Sample ID:	VN0616WBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN087020.D	1		06/16/25 11:04	VN061625

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\VN061625\
 Data File : VN087020.D
 Acq On : 16 Jun 2025 11:04
 Operator : JC\MD
 Sample : VN0616WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/17/2025
 Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:18:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	198479	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	351201	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	304875	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154394	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	114172	42.964	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.920%		
35) Dibromofluoromethane	8.177	113	99113	47.621	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.240%		
50) Toluene-d8	10.565	98	374388	45.439	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.880%		
62) 4-Bromofluorobenzene	12.847	95	141176	46.119	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.240%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	37533	18.966	ug/l	98
3) Chloromethane	2.400	50	39606	15.499	ug/l	98
4) Vinyl Chloride	2.553	62	52585	19.948	ug/l	97
5) Bromomethane	3.000	94	20257	13.732	ug/l	100
6) Chloroethane	3.159	64	32603	19.147	ug/l	94
7) Trichlorofluoromethane	3.530	101	65961	19.152	ug/l	96
8) Diethyl Ether	3.989	74	28248	18.824	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.406	101	40915	18.908	ug/l	98
10) Methyl Iodide	4.618	142	17914	6.386	ug/l	94
11) Tert butyl alcohol	5.536	59	55506	76.978	ug/l	100
12) 1,1-Dichloroethene	4.371	96	42250	19.125	ug/l	97
13) Acrolein	4.200	56	26461	115.934	ug/l	98
14) Allyl chloride	5.047	41	61587m	16.810	ug/l	
15) Acrylonitrile	5.730	53	143891	85.376	ug/l	99
16) Acetone	4.447	43	109568	77.749	ug/l	98
17) Carbon Disulfide	4.741	76	127198	20.816	ug/l	99
18) Methyl Acetate	5.047	43	58410	14.223	ug/l	98
19) Methyl tert-butyl Ether	5.812	73	142042	17.758	ug/l	99
20) Methylene Chloride	5.300	84	47051	17.833	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	46452	18.900	ug/l	94
22) Diisopropyl ether	6.688	45	134171	17.373	ug/l	97
23) Vinyl Acetate	6.618	43	588534	90.198	ug/l	99
24) 1,1-Dichloroethane	6.588	63	81795	18.404	ug/l	98
25) 2-Butanone	7.494	43	183450	80.085	ug/l	95
26) 2,2-Dichloropropane	7.500	77	70660	20.439	ug/l	100
27) cis-1,2-Dichloroethene	7.494	96	54811	18.647	ug/l	99
28) Bromochloromethane	7.824	49	37366	17.100	ug/l	94
29) Tetrahydrofuran	7.847	42	122051	81.792	ug/l	96
30) Chloroform	7.977	83	81394	18.339	ug/l	97
31) Cyclohexane	8.265	56	75253	17.460	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	68126	18.047	ug/l	95
36) 1,1-Dichloropropene	8.377	75	60230	19.421	ug/l	99
37) Ethyl Acetate	7.571	43	67617	17.127	ug/l	98
38) Carbon Tetrachloride	8.371	117	56888	18.684	ug/l	98
39) Methylcyclohexane	9.606	83	71937	16.930	ug/l	94
40) Benzene	8.612	78	194623	19.191	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
 Data File : VN087020.D
 Acq On : 16 Jun 2025 11:04
 Operator : JC\MD
 Sample : VN0616WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0616WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/17/2025
 Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:18:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	36338	16.389	ug/l	95
42) 1,2-Dichloroethane	8.676	62	56441	18.349	ug/l	98
43) Isopropyl Acetate	8.694	43	107401	16.949	ug/l	98
44) Trichloroethene	9.359	130	46641	19.396	ug/l	97
45) 1,2-Dichloropropane	9.623	63	45840	18.579	ug/l	99
46) Dibromomethane	9.712	93	32178	19.635	ug/l	97
47) Bromodichloromethane	9.894	83	63377	18.796	ug/l	98
48) Methyl methacrylate	9.682	41	47325	16.227	ug/l	94
49) 1,4-Dioxane	9.700	88	18992	357.950	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	327481	85.848	ug/l	99
52) Toluene	10.629	92	118515	19.122	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	70878	18.799	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	75519	18.720	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	44875	18.817	ug/l	98
56) Ethyl methacrylate	10.882	69	70762	18.629	ug/l #	91
57) 1,3-Dichloropropane	11.165	76	77534	18.742	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.165	63	194458	85.833	ug/l	100
59) 2-Hexanone	11.206	43	191051	77.753	ug/l	93
60) Dibromochloromethane	11.359	129	48043	19.336	ug/l	99
61) 1,2-Dibromoethane	11.470	107	45566	18.641	ug/l	99
64) Tetrachloroethene	11.106	164	37131	19.244	ug/l	93
65) Chlorobenzene	11.894	112	130351	19.386	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	41248	19.083	ug/l	99
67) Ethyl Benzene	11.964	91	215330	18.591	ug/l	100
68) m/p-Xylenes	12.070	106	171972	38.788	ug/l	97
69) o-Xylene	12.394	106	82615	19.456	ug/l	95
70) Styrene	12.412	104	138368	19.043	ug/l	99
71) Bromoform	12.576	173	31904	19.921	ug/l #	99
73) Isopropylbenzene	12.694	105	198621	17.659	ug/l	99
74) N-amyl acetate	12.529	43	73537m	18.710	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	71468	18.756	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	60407m	16.460	ug/l	
77) Bromobenzene	12.976	156	49732	19.280	ug/l	95
78) n-propylbenzene	13.035	91	239720	17.538	ug/l	99
79) 2-Chlorotoluene	13.123	91	145077	17.698	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	164102	17.671	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.741	75	23631	14.822	ug/l	99
82) 4-Chlorotoluene	13.217	91	150701	18.169	ug/l	98
83) tert-Butylbenzene	13.435	119	140370	16.513	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	165460	17.768	ug/l	99
85) sec-Butylbenzene	13.611	105	205538	16.650	ug/l	99
86) p-Isopropyltoluene	13.729	119	174962	17.146	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	92897	18.304	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	97432	18.830	ug/l	99
89) n-Butylbenzene	14.053	91	156993	15.883	ug/l	99
90) Hexachloroethane	14.329	117	28816	16.660	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	90825	18.627	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	15534	17.046	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	52567	16.883	ug/l	100
94) Hexachlorobutadiene	15.494	225	16942	14.605	ug/l	96
95) Naphthalene	15.635	128	197587	17.049	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	49566	16.023	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087020.D
Acq On : 16 Jun 2025 11:04
Operator : JC\MD
Sample : VN0616WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/17/2025
Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:18:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

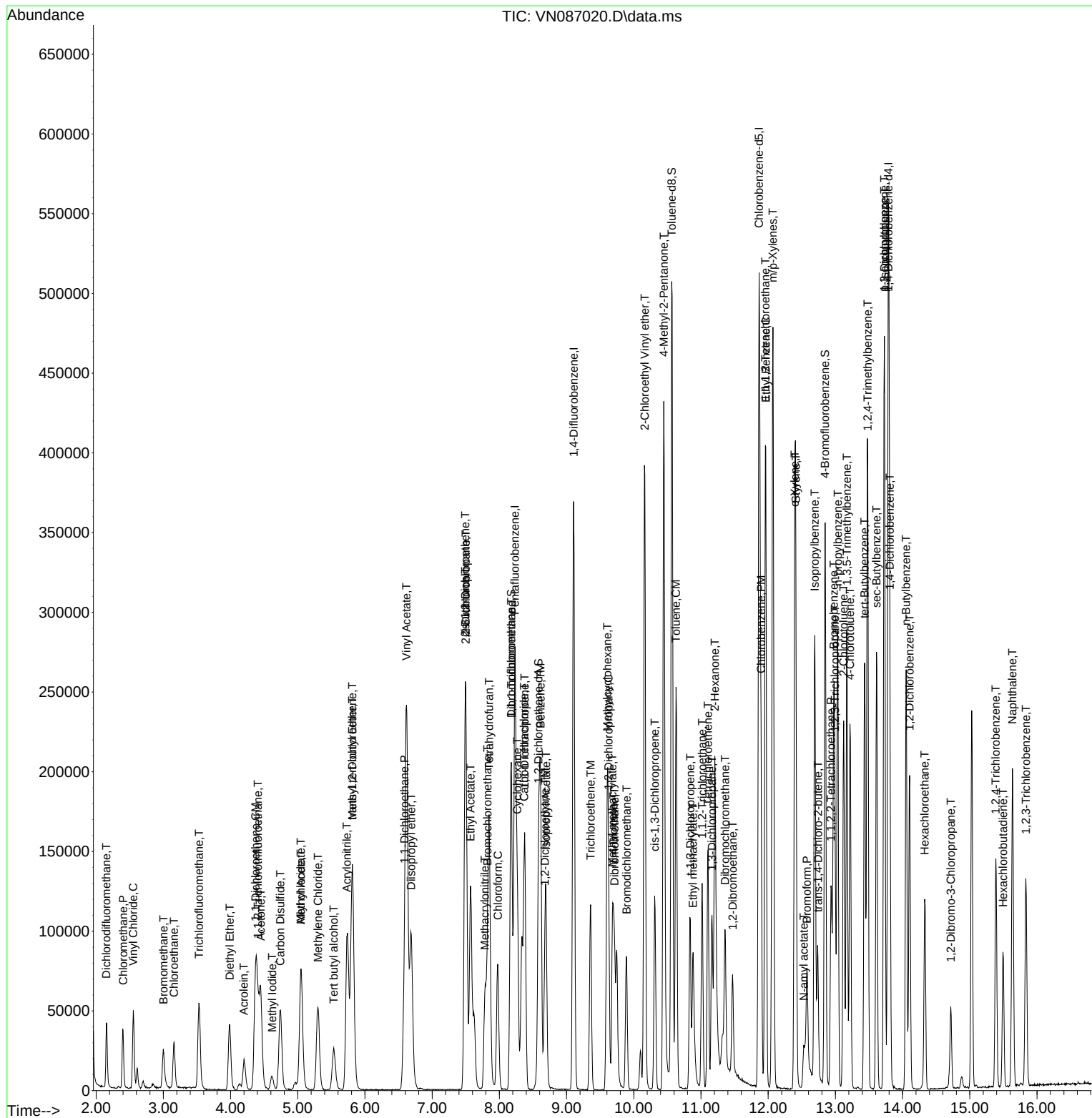
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061625\
Data File : VN087020.D
Acq On : 16 Jun 2025 11:04
Operator : JC\MD
Sample : VN0616WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0616WBS01

Manual Integrations

Reviewed By :John Carlone 06/17/2025
Supervised By :Semsettin Yesilyurt 06/17/2025

Quant Time: Jun 17 07:18:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605MS	SDG No.:	Q2268
Lab Sample ID:	Q2268-04MS	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086992.D	1		06/12/25 20:48	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	41.0		0.22	1.00	ug/L
74-87-3	Chloromethane	35.7		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	45.6		0.26	1.00	ug/L
74-83-9	Bromomethane	18.3		1.40	5.00	ug/L
75-00-3	Chloroethane	48.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	49.0		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	44.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	50.5		0.23	1.00	ug/L
67-64-1	Acetone	260		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	44.5		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	60.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	45.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	49.2		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	48.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	50.0		0.23	1.00	ug/L
110-82-7	Cyclohexane	79.3		1.50	5.00	ug/L
78-93-3	2-Butanone	240		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	49.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	52.3		0.19	1.00	ug/L
74-97-5	Bromochloromethane	40.7		0.22	1.00	ug/L
67-66-3	Chloroform	55.8		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	50.2		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	83.1		0.16	1.00	ug/L
71-43-2	Benzene	160	E	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.0		0.22	1.00	ug/L
79-01-6	Trichloroethene	52.0		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	50.0		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	53.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	240		0.68	5.00	ug/L
108-88-3	Toluene	60.1		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605MS	SDG No.:	Q2268
Lab Sample ID:	Q2268-04MS	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086992.D	1		06/12/25 20:48	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	48.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.5		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	65.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	260		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	55.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	54.1		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	47.8		0.23	1.00	ug/L
108-90-7	Chlorobenzene	51.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	490	E	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	660	E	0.24	2.00	ug/L
95-47-6	o-Xylene	59.4		0.12	1.00	ug/L
100-42-5	Styrene	52.0		0.15	1.00	ug/L
75-25-2	Bromoform	58.8		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	100		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	56.0		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	51.4		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	51.3		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	45.2		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.6		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.3		74 - 125	91%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	47.5		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		77 - 121	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	8.236			
540-36-3	1,4-Difluorobenzene	427000	9.106			
3114-55-4	Chlorobenzene-d5	372000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.788			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05			Date Received:	06/06/25
Client Sample ID:	MW-2-20250605MS			SDG No.:	Q2268
Lab Sample ID:	Q2268-04MS			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:	Prep Date	Date Analyzed	Prep Batch ID
VN086992.D	1		06/12/25 20:48	VN061225

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\VN061225\
 Data File : VN086992.D
 Acq On : 12 Jun 2025 20:48
 Operator : JC\MD
 Sample : Q2268-04MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605MS

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:35:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	232985	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	427205	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	171326	50.000	ug/l	# 0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	141302	45.298	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.600%
35) Dibromofluoromethane	8.177	113	127855	50.501	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.000%
50) Toluene-d8	10.571	98	475637	47.457	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.920%
62) 4-Bromofluorobenzene	12.847	95	179151	48.112	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.220%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.154	85	95206	40.984	ug/l	96
3) Chloromethane	2.395	50	107133	35.714	ug/l	99
4) Vinyl Chloride	2.554	62	140948	45.550	ug/l	99
5) Bromomethane	2.983	94	31603	18.250	ug/l	91
6) Chloroethane	3.154	64	96111	48.084	ug/l	98
7) Trichlorofluoromethane	3.524	101	198275	49.042	ug/l	99
8) Diethyl Ether	3.983	74	93986	53.356	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.395	101	113796	44.801	ug/l	97
10) Methyl Iodide	4.612	142	53304	16.188	ug/l	94
11) Tert butyl alcohol	5.547	59	219086	258.838	ug/l	100
12) 1,1-Dichloroethene	4.365	96	130958	50.501	ug/l	92
13) Acrolein	4.200	56	42311	157.923	ug/l	# 15
14) Allyl chloride	5.048	41	171692	39.922	ug/l	# 92
15) Acrylonitrile	5.742	53	495167	250.288	ug/l	97
16) Acetone	4.448	43	428120	258.800	ug/l	98
17) Carbon Disulfide	4.736	76	319157	44.494	ug/l	100
18) Methyl Acetate	5.048	43	218341	45.292	ug/l	95
19) Methyl tert-butyl Ether	5.818	73	572010	60.921	ug/l	# 1
20) Methylene Chloride	5.300	84	152310	49.179	ug/l	92
21) trans-1,2-Dichloroethene	5.806	96	139888	48.486	ug/l	91
22) Diisopropyl ether	6.689	45	430366	47.473	ug/l	96
23) Vinyl Acetate	6.624	43	1641904	214.367	ug/l	96
24) 1,1-Dichloroethane	6.589	63	260618	49.956	ug/l	99
25) 2-Butanone	7.494	43	647510	240.806	ug/l	94
26) 2,2-Dichloropropane	7.500	77	152729	37.635	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	180414	52.287	ug/l	92
28) Bromochloromethane	7.824	49	104333	40.675	ug/l	86
29) Tetrahydrofuran	7.847	42	400335	228.548	ug/l	91
30) Chloroform	7.977	83	290791	55.814	ug/l	95
31) Cyclohexane	8.265	56	401420	79.342	ug/l	# 88
32) 1,1,1-Trichloroethane	8.177	97	222435	50.197	ug/l	97
36) 1,1-Dichloropropene	8.377	75	177427	47.031	ug/l	97
37) Ethyl Acetate	7.571	43	202261	42.117	ug/l	95
38) Carbon Tetrachloride	8.371	117	184700	49.869	ug/l	99
39) Methylcyclohexane	9.606	83	429688	83.136	ug/l	94
40) Benzene	8.612	78	2008592	162.820	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086992.D
 Acq On : 12 Jun 2025 20:48
 Operator : JC\MD
 Sample : Q2268-04MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605MS

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:35:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	127639	47.325	ug/l	94
42) 1,2-Dichloroethane	8.677	62	179592	47.997	ug/l	96
43) Isopropyl Acetate	8.694	43	368031	47.747	ug/l	99
44) Trichloroethene	9.359	130	151965	51.951	ug/l	98
45) 1,2-Dichloropropane	9.624	63	149989	49.976	ug/l	97
46) Dibromomethane	9.712	93	104726	52.535	ug/l	93
47) Bromodichloromethane	9.894	83	218861	53.361	ug/l	100
48) Methyl methacrylate	9.682	41	141952	40.013	ug/l #	83
49) 1,4-Dioxane	9.706	88	72823	1128.338	ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	1091222	235.166	ug/l	93
52) Toluene	10.630	92	453063	60.096	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	223962	48.833	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	243114	49.542	ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	189646	65.376	ug/l	87
56) Ethyl methacrylate	10.882	69	262788	56.876	ug/l	90
57) 1,3-Dichloropropane	11.165	76	257363	51.143	ug/l	98
59) 2-Hexanone	11.200	43	763906	255.579	ug/l	89
60) Dibromochloromethane	11.359	129	168431	55.728	ug/l	99
61) 1,2-Dibromoethane	11.471	107	160869	54.104	ug/l	98
64) Tetrachloroethene	11.106	164	112563	47.807	ug/l	95
65) Chlorobenzene	11.894	112	425514	51.857	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	142834	54.152	ug/l	100
67) Ethyl Benzene	11.965	91	6864452	485.676	ug/l	98
68) m/p-Xylenes	12.076	106	3554679	657.006	ug/l	96
69) o-Xylene	12.400	106	307969	59.433	ug/l	96
70) Styrene	12.412	104	461140	52.006	ug/l	99
71) Bromoform	12.576	173	114944	58.815	ug/l #	99
73) Isopropylbenzene	12.694	105	1259395	100.903	ug/l	99
74) N-amyl acetate	12.512	43	215181	49.337	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.941	83	236672	55.972	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	200060m	49.125	ug/l	
77) Bromobenzene	12.982	156	163979	57.288	ug/l	94
78) n-propylbenzene	13.035	91	2168323	142.954	ug/l	98
79) 2-Chlorotoluene	13.123	91	595579	65.474	ug/l	90
80) 1,3,5-Trimethylbenzene	13.171	105	1374121	133.348	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.735	75	79134	44.730	ug/l	95
82) 4-Chlorotoluene	13.223	91	462419	50.241	ug/l	97
83) tert-Butylbenzene	13.435	119	468897	49.710	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	3780929	365.899	ug/l	96
85) sec-Butylbenzene	13.618	105	675844	49.338	ug/l	94
86) p-Isopropyltoluene	13.729	119	518206	45.764	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	288870	51.294	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	295025	51.383	ug/l	99
89) n-Butylbenzene	14.053	91	513089	46.780	ug/l #	87
90) Hexachloroethane	14.329	117	159701	83.204	ug/l	65
91) 1,2-Dichlorobenzene	14.106	146	282685	52.247	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	51901	51.325	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	156064	45.170	ug/l	98
94) Hexachlorobutadiene	15.494	225	41374	32.142	ug/l	97
95) Naphthalene	15.635	128	4309972	335.143	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	156650	45.635	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086992.D
Acq On : 12 Jun 2025 20:48
Operator : JC\MD
Sample : Q2268-04MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:35:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

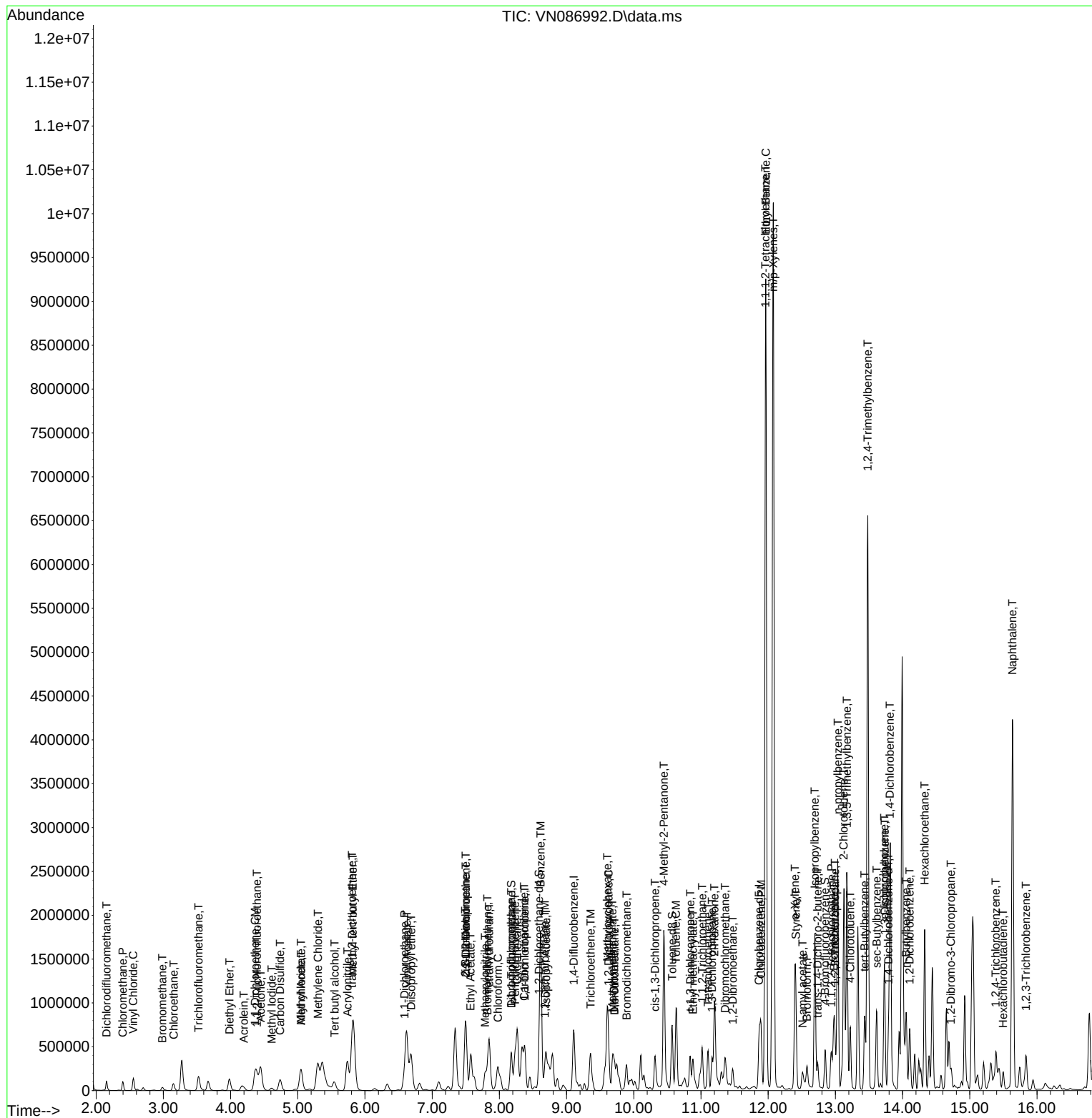
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605MS

Manual Integrations APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-2-20250605MSD		SDG No.:	Q2268	
Lab Sample ID:	Q2268-05MSD		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086993.D	1		06/12/25 21:11	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	50.4		0.22	1.00	ug/L
74-87-3	Chloromethane	39.8		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	51.8		0.26	1.00	ug/L
74-83-9	Bromomethane	25.1		1.40	5.00	ug/L
75-00-3	Chloroethane	54.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	56.8		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	55.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	57.8		0.23	1.00	ug/L
67-64-1	Acetone	300		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	51.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	69.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	50.5		0.27	1.00	ug/L
75-09-2	Methylene Chloride	55.6		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	55.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	56.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	100		1.50	5.00	ug/L
78-93-3	2-Butanone	270		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	57.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	59.5		0.19	1.00	ug/L
74-97-5	Bromochloromethane	47.7		0.22	1.00	ug/L
67-66-3	Chloroform	64.7		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.5		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	110		0.16	1.00	ug/L
71-43-2	Benzene	220	E	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	55.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	61.2		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	57.8		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	63.2		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	260		0.68	5.00	ug/L
108-88-3	Toluene	72.0		0.14	1.00	ug/L

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	06/05/25
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05	Date Received:	06/06/25
Client Sample ID:	MW-2-20250605MSD	SDG No.:	Q2268
Lab Sample ID:	Q2268-05MSD	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086993.D	1		06/12/25 21:11	VN061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	56.7		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	56.6		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	79.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	290		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	63.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	62.0		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	58.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	60.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	660	E	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	890	E	0.24	2.00	ug/L
95-47-6	o-Xylene	67.3		0.12	1.00	ug/L
100-42-5	Styrene	60.9		0.15	1.00	ug/L
75-25-2	Bromoform	67.5		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	130		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	63.2		0.26	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	61.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	60.8		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	59.8		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	56.5		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	54.0		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	53.3		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	57.1		75 - 124	114%	SPK: 50
2037-26-5	Toluene-d8	54.4		86 - 113	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	8.235			
540-36-3	1,4-Difluorobenzene	307000	9.106			
3114-55-4	Chlorobenzene-d5	268000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.794			

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	06/05/25	
Project:	Con Ed Non MGP – Atlantic Ave 453957.600024.05		Date Received:	06/06/25	
Client Sample ID:	MW-2-20250605MSD		SDG No.:	Q2268	
Lab Sample ID:	Q2268-05MSD		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:	Prep Date	Date Analyzed	Prep Batch ID
VN086993.D	1		06/12/25 21:11	VN061225

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\VN061225\
 Data File : VN086993.D
 Acq On : 12 Jun 2025 21:11
 Operator : JC\MD
 Sample : Q2268-05MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605MSD

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:36:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	173076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	307412	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267750	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	123846	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	113705	49.068	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.140%		
35) Dibromofluoromethane	8.177	113	104046	57.112	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	114.220%		
50) Toluene-d8	10.571	98	391996	54.353	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	108.700%		
62) 4-Bromofluorobenzene	12.847	95	143148	53.424	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.840%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.153	85	87006	50.419	ug/l	98
3) Chloromethane	2.401	50	88604	39.762	ug/l	95
4) Vinyl Chloride	2.553	62	119017	51.776	ug/l	98
5) Bromomethane	2.995	94	32231	25.056	ug/l	88
6) Chloroethane	3.153	64	81301	54.754	ug/l	95
7) Trichlorofluoromethane	3.524	101	170660	56.823	ug/l	99
8) Diethyl Ether	3.983	74	77359	59.118	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.395	101	103982	55.107	ug/l	96
10) Methyl Iodide	4.612	142	60737	24.831	ug/l	96
11) Tert butyl alcohol	5.542	59	181916	289.318	ug/l	100
12) 1,1-Dichloroethene	4.365	96	111344	57.799	ug/l	94
13) Acrolein	4.200	56	35500	178.365	ug/l	# 15
14) Allyl chloride	5.047	41	140861	44.091	ug/l	# 90
15) Acrylonitrile	5.736	53	422886	287.742	ug/l	97
16) Acetone	4.447	43	369511	300.689	ug/l	100
17) Carbon Disulfide	4.742	76	273831	51.389	ug/l	99
18) Methyl Acetate	5.047	43	180774	50.479	ug/l	94
19) Methyl tert-butyl Ether	5.818	73	482233	69.137	ug/l	# 1
20) Methylene Chloride	5.294	84	127825	55.560	ug/l	89
21) trans-1,2-Dichloroethene	5.812	96	118707	55.386	ug/l	94
22) Diisopropyl ether	6.688	45	347490	51.599	ug/l	96
23) Vinyl Acetate	6.618	43	1357766	238.631	ug/l	96
24) 1,1-Dichloroethane	6.583	63	218348	56.341	ug/l	99
25) 2-Butanone	7.494	43	540813	270.744	ug/l	93
26) 2,2-Dichloropropane	7.506	77	120275	39.897	ug/l	93
27) cis-1,2-Dichloroethene	7.500	96	152569	59.522	ug/l	91
28) Bromochloromethane	7.824	49	90949	47.730	ug/l	# 82
29) Tetrahydrofuran	7.847	42	329540	253.252	ug/l	90
30) Chloroform	7.977	83	250489	64.721	ug/l	98
31) Cyclohexane	8.265	56	379270	100.912	ug/l	# 87
32) 1,1,1-Trichloroethane	8.177	97	182691	55.499	ug/l	98
36) 1,1-Dichloropropene	8.382	75	154011	56.733	ug/l	97
37) Ethyl Acetate	7.571	43	166937	48.307	ug/l	96
38) Carbon Tetrachloride	8.371	117	153692	57.667	ug/l	98
39) Methylcyclohexane	9.606	83	427384	114.913	ug/l	93
40) Benzene	8.612	78	1910572	215.227	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086993.D
 Acq On : 12 Jun 2025 21:11
 Operator : JC\MD
 Sample : Q2268-05MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605MSD

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:36:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	104901	54.051	ug/l	92
42) 1,2-Dichloroethane	8.677	62	149006	55.341	ug/l	93
43) Isopropyl Acetate	8.694	43	306102	55.188	ug/l	100
44) Trichloroethene	9.359	130	128773	61.178	ug/l	96
45) 1,2-Dichloropropane	9.624	63	124843	57.807	ug/l	95
46) Dibromomethane	9.712	93	88261	61.528	ug/l	92
47) Bromodichloromethane	9.894	83	186591	63.221	ug/l	96
48) Methyl methacrylate	9.688	41	127691	50.019	ug/l	89
49) 1,4-Dioxane	9.706	88	58042	1249.766	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	878670	263.149	ug/l	92
52) Toluene	10.635	92	390543	71.990	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	187244	56.736	ug/l	98
54) cis-1,3-Dichloropropene	10.318	75	199732	56.562	ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	165693	79.377	ug/l #	84
56) Ethyl methacrylate	10.882	69	211558	63.630	ug/l	91
57) 1,3-Dichloropropane	11.165	76	211675	58.456	ug/l	98
59) 2-Hexanone	11.200	43	615338	286.097	ug/l	90
60) Dibromochloromethane	11.359	129	138270	63.576	ug/l	100
61) 1,2-Dibromoethane	11.471	107	132760	62.049	ug/l	94
64) Tetrachloroethene	11.106	164	98309	58.017	ug/l	97
65) Chlorobenzene	11.894	112	357502	60.539	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.965	131	118148	62.240	ug/l	100
67) Ethyl Benzene	11.965	91	6753470	663.940	ug/l	98
68) m/p-Xylenes	12.076	106	3471863	891.646	ug/l	97
69) o-Xylene	12.400	106	250950	67.293	ug/l	98
70) Styrene	12.412	104	388491	60.879	ug/l	98
71) Bromoform	12.576	173	94925	67.490	ug/l #	100
73) Isopropylbenzene	12.694	105	1166750	129.318	ug/l	100
74) N-amyl acetate	12.512	43	169730	53.835	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	193115	63.181	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	138570m	47.071	ug/l	
77) Bromobenzene	12.982	156	140236	67.776	ug/l	91
78) n-propylbenzene	13.035	91	2086241	190.273	ug/l	98
79) 2-Chlorotoluene	13.123	91	520161	79.106	ug/l	89
80) 1,3,5-Trimethylbenzene	13.170	105	1308849	175.709	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.735	75	66243	51.799	ug/l	93
82) 4-Chlorotoluene	13.223	91	397978	59.817	ug/l	96
83) tert-Butylbenzene	13.435	119	391714	57.448	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	3700121	495.359	ug/l	97
85) sec-Butylbenzene	13.617	105	585523	59.131	ug/l	93
86) p-Isopropyltoluene	13.729	119	454043	55.470	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	249522	61.293	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	252413	60.816	ug/l	100
89) n-Butylbenzene	14.053	91	477756	60.259	ug/l #	85
90) Hexachloroethane	14.329	117	145354	104.762	ug/l	61
91) 1,2-Dichlorobenzene	14.106	146	234064	59.846	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41297	56.495	ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	134765	53.960	ug/l	94
94) Hexachlorobutadiene	15.500	225	38102	40.948	ug/l	98
95) Naphthalene	15.641	128	4181384	449.797	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	132306	53.319	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086993.D
Acq On : 12 Jun 2025 21:11
Operator : JC\MD
Sample : Q2268-05MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:36:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

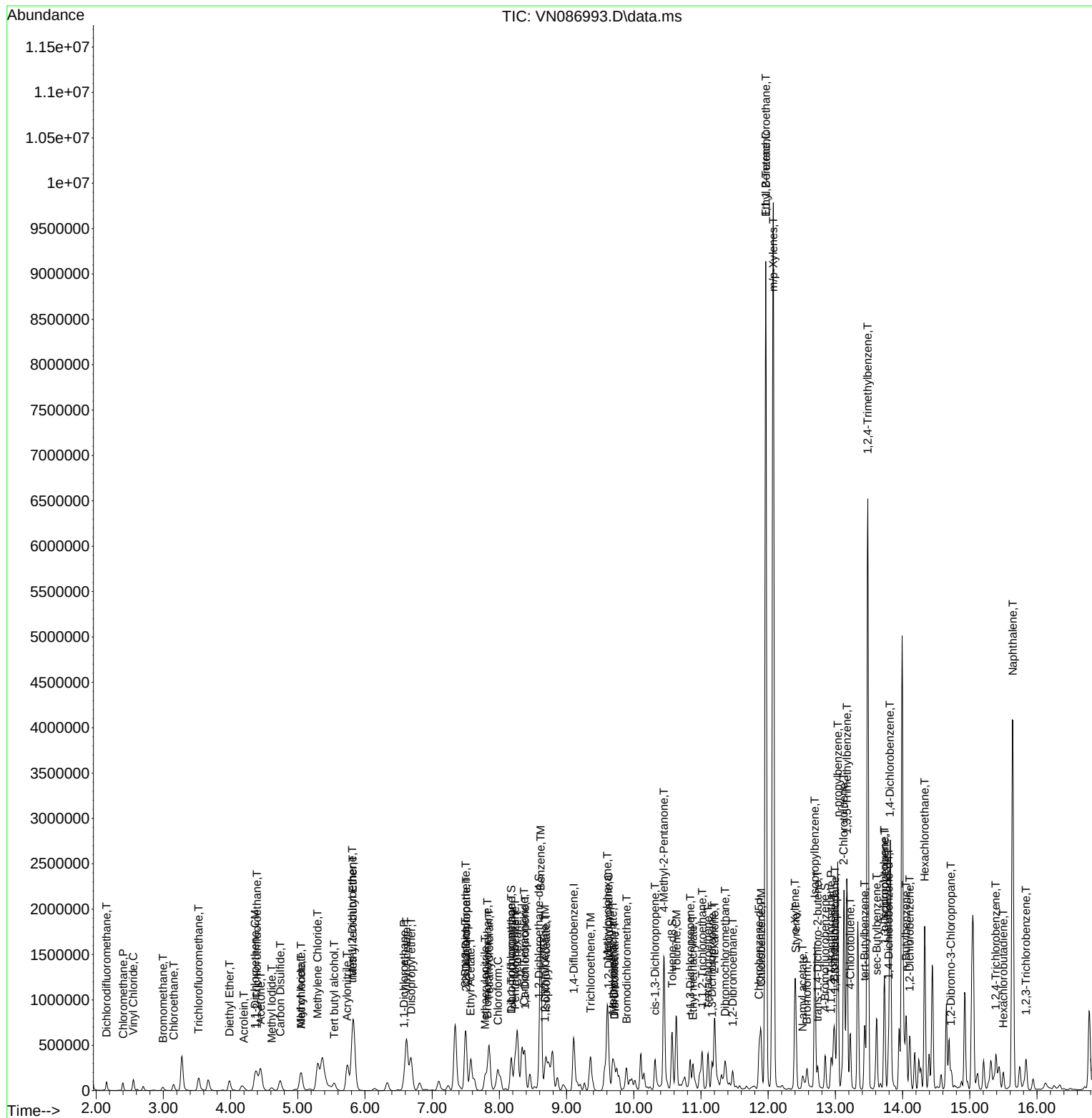
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605MSD

Manual Integrations

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



Manual Integration Report

Sequence:

vn060625

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn060625

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	vn061225	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086967.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:08:10 AM	MMDadoda	6/13/2025 10:59:06 AM	Peak Integrated by Software
VN0612WBS01	VN086970.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:08:15 AM	MMDadoda	6/13/2025 10:59:07 AM	Peak Integrated by Software
Q2268-07	VN086989.D	sec-Butylbenzene	JOHN	6/13/2025 10:09:27 AM	MMDadoda	6/13/2025 10:59:12 AM	Peak Integrated by Software
Q2268-08	VN086990.D	n-Butylbenzene	JOHN	6/13/2025 10:09:32 AM	MMDadoda	6/13/2025 10:59:14 AM	Peak Integrated by Software
Q2268-08	VN086990.D	p-Isopropyltoluene	JOHN	6/13/2025 10:09:32 AM	MMDadoda	6/13/2025 10:59:14 AM	Peak Integrated by Software
Q2268-08	VN086990.D	sec-Butylbenzene	JOHN	6/13/2025 10:09:32 AM	MMDadoda	6/13/2025 10:59:14 AM	Peak Integrated by Software
Q2268-03	VN086991.D	sec-Butylbenzene	JOHN	6/13/2025 10:09:37 AM	MMDadoda	6/13/2025 10:59:15 AM	Peak Integrated by Software
Q2268-04MS	VN086992.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:09:41 AM	MMDadoda	6/13/2025 10:59:16 AM	Peak Integrated by Software
Q2268-05MSD	VN086993.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:09:46 AM	MMDadoda	6/13/2025 10:59:18 AM	Peak Integrated by Software
VSTDCCC050	VN086994.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:09:51 AM	MMDadoda	6/13/2025 10:59:20 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn061325

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086996.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:56:42 AM	MMDadoda	6/16/2025 5:03:30 PM	Peak Integrated by Software
VN0613WBS01	VN087000.D	1,2,3-Trichloropropane	JOHN	6/16/2025 8:56:46 AM	MMDadoda	6/16/2025 5:03:31 PM	Peak Integrated by Software
Q2268-06DL	VN087011.D	sec-Butylbenzene	JOHN	6/16/2025 9:02:06 AM	MMDadoda	6/16/2025 5:03:34 PM	Peak Integrated by Software
VSTDCCC050	VN087015.D	1,2,3-Trichloropropane	JOHN	6/16/2025 9:02:23 AM	MMDadoda	6/16/2025 5:03:39 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN061625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087017.D	1,2,3-Trichloropropane	JOHN	6/17/2025 9:47:23 AM	Sam	6/17/2025 4:00:23 PM	Peak Integrated by Software
VSTDCCC050	VN087017.D	trans-1,4-Dichloro-2-butene	JOHN	6/17/2025 9:47:23 AM	Sam	6/17/2025 4:00:23 PM	Peak Integrated by Software
VN0616WBS01	VN087020.D	1,2,3-Trichloropropane	JOHN	6/17/2025 9:47:28 AM	Sam	6/17/2025 4:00:25 PM	Peak Integrated by Software
VN0616WBS01	VN087020.D	Allyl chloride	JOHN	6/17/2025 9:47:28 AM	Sam	6/17/2025 4:00:25 PM	Peak Integrated by Software
VN0616WBS01	VN087020.D	N-amyl acetate	JOHN	6/17/2025 9:47:28 AM	Sam	6/17/2025 4:00:25 PM	Peak Integrated by Software
VSTDCCC050	VN087043.D	1,2,3-Trichloropropane	JOHN	6/17/2025 9:47:45 AM	Sam	6/17/2025 4:00:27 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDIC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDIC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDIC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDIC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDIC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDIC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061225

Review By	John Carlone	Review On	6/13/2025 10:24:38 AM
Supervise By	Maresh Dadoda	Supervise On	6/13/2025 10:59:22 AM
SubDirectory	VN061225	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134291		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134292,VP134293		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086966.D	12 Jun 2025 10:25	JC\MD	Ok
2	VSTDCCC050	VN086967.D	12 Jun 2025 10:58	JC\MD	Ok,M
3	VN0612MBL01	VN086968.D	12 Jun 2025 11:33	JC\MD	Ok
4	VN0612WBL01	VN086969.D	12 Jun 2025 11:55	JC\MD	Ok
5	VN0612WBS01	VN086970.D	12 Jun 2025 12:17	JC\MD	Ok,M
6	VN0612WBSD01	VN086971.D	12 Jun 2025 12:53	JC\MD	Ok,M
7	Q2249-01	VN086972.D	12 Jun 2025 13:15	JC\MD	Not Ok
8	Q2271-04	VN086973.D	12 Jun 2025 13:38	JC\MD	Ok
9	Q2274-04	VN086974.D	12 Jun 2025 14:00	JC\MD	Ok
10	Q2280-02	VN086975.D	12 Jun 2025 14:23	JC\MD	Ok
11	Q2280-04	VN086976.D	12 Jun 2025 14:45	JC\MD	Ok
12	Q2272-04	VN086977.D	12 Jun 2025 15:08	JC\MD	Ok
13	Q2273-04	VN086978.D	12 Jun 2025 15:31	JC\MD	Ok
14	Q2273-08	VN086979.D	12 Jun 2025 15:54	JC\MD	Ok
15	Q2302-01	VN086980.D	12 Jun 2025 16:17	JC\MD	ReRun
16	IBLK	VN086981.D	12 Jun 2025 16:39	JC\MD	Ok
17	IBLK	VN086982.D	12 Jun 2025 17:02	JC\MD	Ok
18	Q2302-02	VN086983.D	12 Jun 2025 17:25	JC\MD	Ok
19	Q2268-09	VN086984.D	12 Jun 2025 17:48	JC\MD	Ok
20	Q2268-10	VN086985.D	12 Jun 2025 18:10	JC\MD	Ok
21	Q2268-01	VN086986.D	12 Jun 2025 18:33	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061225

Review By	John Carlone	Review On	6/13/2025 10:24:38 AM
Supervise By	Mahesh Dadoda	Supervise On	6/13/2025 10:59:22 AM
SubDirectory	VN061225	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134291		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134292,VP134293		

22	Q2268-02	VN086987.D	12 Jun 2025 18:56	JC\MD	Ok
23	Q2268-06	VN086988.D	12 Jun 2025 19:18	JC\MD	Dilution
24	Q2268-07	VN086989.D	12 Jun 2025 19:41	JC\MD	Dilution
25	Q2268-08	VN086990.D	12 Jun 2025 20:04	JC\MD	Dilution
26	Q2268-03	VN086991.D	12 Jun 2025 20:26	JC\MD	Dilution
27	Q2268-04MS	VN086992.D	12 Jun 2025 20:48	JC\MD	Ok,M
28	Q2268-05MSD	VN086993.D	12 Jun 2025 21:11	JC\MD	Ok,M
29	VSTDCCC050	VN086994.D	12 Jun 2025 21:33	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061325

Review By	John Carlone	Review On	6/16/2025 9:41:28 AM
Supervise By	Maresh Dadoda	Supervise On	6/16/2025 5:03:41 PM
SubDirectory	VN061325	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134329		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134330,VP134331		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086995.D	13 Jun 2025 10:26	JC\MD	Ok
2	VSTDCCC050	VN086996.D	13 Jun 2025 12:52	JC\MD	Ok,M
3	VN0613MBL01	VN086997.D	13 Jun 2025 13:26	JC\MD	Ok
4	VN0613WBL01	VN086998.D	13 Jun 2025 13:47	JC\MD	Ok
5	Q2282-04	VN086999.D	13 Jun 2025 14:10	JC\MD	Ok
6	VN0613WBS01	VN087000.D	13 Jun 2025 14:32	JC\MD	Ok,M
7	VN0613WBSD01	VN087001.D	13 Jun 2025 15:06	JC\MD	Ok,M
8	Q2314-06	VN087002.D	13 Jun 2025 15:28	JC\MD	Ok
9	Q2314-01	VN087003.D	13 Jun 2025 15:50	JC\MD	Ok
10	Q2314-05	VN087004.D	13 Jun 2025 16:12	JC\MD	ReRun
11	Q2314-04	VN087005.D	13 Jun 2025 16:34	JC\MD	Ok
12	Q2314-02	VN087006.D	13 Jun 2025 16:56	JC\MD	Ok
13	Q2314-05	VN087007.D	13 Jun 2025 17:18	JC\MD	Ok
14	IBLK	VN087008.D	13 Jun 2025 17:40	JC\MD	Ok
15	IBLK	VN087009.D	13 Jun 2025 18:02	JC\MD	Ok
16	Q2268-03DL	VN087010.D	13 Jun 2025 18:24	JC\MD	Ok
17	Q2268-06DL	VN087011.D	13 Jun 2025 18:46	JC\MD	Ok,M
18	Q2268-07DL	VN087012.D	13 Jun 2025 19:07	JC\MD	Not Ok
19	Q2268-08DL	VN087013.D	13 Jun 2025 19:29	JC\MD	Not Ok
20	Q2302-01RE	VN087014.D	13 Jun 2025 19:51	JC\MD	Confirms
21	VSTDCCC050	VN087015.D	13 Jun 2025 20:13	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061625

Review By	John Carlone	Review On	6/17/2025 9:59:38 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/17/2025 4:00:38 PM
SubDirectory	VN061625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134352		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134353,VP134354		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087016.D	16 Jun 2025 08:39	JC\MD	Ok
2	VSTDCCC050	VN087017.D	16 Jun 2025 09:48	JC\MD	Ok,M
3	VN0616MBL01	VN087018.D	16 Jun 2025 10:22	JC\MD	Ok
4	VN0616WBL01	VN087019.D	16 Jun 2025 10:43	JC\MD	Ok
5	VN0616WBS01	VN087020.D	16 Jun 2025 11:04	JC\MD	Ok,M
6	VN0616WBSD01	VN087021.D	16 Jun 2025 11:39	JC\MD	Ok,M
7	Q2286-03	VN087022.D	16 Jun 2025 12:01	JC\MD	Ok
8	Q2299-01	VN087023.D	16 Jun 2025 12:22	JC\MD	Ok
9	Q2299-06	VN087024.D	16 Jun 2025 12:43	JC\MD	Ok
10	Q2299-07	VN087025.D	16 Jun 2025 13:04	JC\MD	Ok
11	Q2299-08	VN087026.D	16 Jun 2025 13:25	JC\MD	Ok
12	Q2299-09	VN087027.D	16 Jun 2025 13:47	JC\MD	Ok
13	Q2299-10	VN087028.D	16 Jun 2025 14:08	JC\MD	Ok
14	Q2299-11	VN087029.D	16 Jun 2025 14:29	JC\MD	Ok
15	Q2299-12	VN087030.D	16 Jun 2025 14:50	JC\MD	Ok
16	Q2299-13	VN087031.D	16 Jun 2025 15:12	JC\MD	Ok
17	Q2299-14	VN087032.D	16 Jun 2025 15:33	JC\MD	Ok
18	Q2299-15	VN087033.D	16 Jun 2025 15:54	JC\MD	Ok
19	Q2299-16	VN087034.D	16 Jun 2025 16:15	JC\MD	Dilution
20	Q2299-17	VN087035.D	16 Jun 2025 16:37	JC\MD	Dilution
21	Q2299-18	VN087036.D	16 Jun 2025 16:58	JC\MD	Dilution

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN061625

Review By	John Carlone	Review On	6/17/2025 9:59:38 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/17/2025 4:00:38 PM
SubDirectory	VN061625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134352		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134353,VP134354		

22	Q2299-19	VN087037.D	16 Jun 2025 17:19	JC\MD	Ok
23	Q2299-20	VN087038.D	16 Jun 2025 17:41	JC\MD	Ok
24	Q2299-21	VN087039.D	16 Jun 2025 18:02	JC\MD	Ok
25	Q2299-22	VN087040.D	16 Jun 2025 18:24	JC\MD	Ok
26	Q2268-07DL	VN087041.D	16 Jun 2025 18:45	JC\MD	Ok
27	Q2268-08DL	VN087042.D	16 Jun 2025 19:07	JC\MD	Ok
28	VSTDCCC050	VN087043.D	16 Jun 2025 19:49	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134155 VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134156 VP134248

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDIC001	VSTDIC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDIC005	VSTDIC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDIC020	VSTDIC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDIC050	VSTDIC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDIC100	VSTDIC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDIC150	VSTDIC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134155 VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC Internal Standard/PEM	VP134156		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134248		

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061225

Review By	John Carlone	Review On	6/13/2025 10:24:38 AM
Supervise By	Maresh Dadoda	Supervise On	6/13/2025 10:59:22 AM
SubDirectory	VN061225	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134291
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134292,VP134293

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086966.D	12 Jun 2025 10:25		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086967.D	12 Jun 2025 10:58	pH#Lot#V12668	JC\MD	Ok,M
3	VN0612MBL01	VN0612MBL01	VN086968.D	12 Jun 2025 11:33		JC\MD	Ok
4	VN0612WBL01	VN0612WBL01	VN086969.D	12 Jun 2025 11:55		JC\MD	Ok
5	VN0612WBS01	VN0612WBS01	VN086970.D	12 Jun 2025 12:17	BS Failed High for com.#88	JC\MD	Ok,M
6	VN0612WBSD01	VN0612WBSD01	VN086971.D	12 Jun 2025 12:53	BSD Failed High For Com.#51,88	JC\MD	Ok,M
7	Q2249-01	MW-06-6.5-060525	VN086972.D	12 Jun 2025 13:15	Not Required	JC\MD	Not Ok
8	Q2271-04	TP12-MHK-WC	VN086973.D	12 Jun 2025 13:38	vial B pH#5.0	JC\MD	Ok
9	Q2274-04	TP-13-MHP-WC	VN086974.D	12 Jun 2025 14:00	vial B pH#5.0	JC\MD	Ok
10	Q2280-02	VNJ-210	VN086975.D	12 Jun 2025 14:23	vial B pH#5.0	JC\MD	Ok
11	Q2280-04	RT-4643	VN086976.D	12 Jun 2025 14:45	vial B pH#5.0	JC\MD	Ok
12	Q2272-04	TP-6	VN086977.D	12 Jun 2025 15:08	vial B pH#5.0	JC\MD	Ok
13	Q2273-04	WC-4	VN086978.D	12 Jun 2025 15:31	vial B pH#5.0	JC\MD	Ok
14	Q2273-08	WC-6	VN086979.D	12 Jun 2025 15:54	vial B pH#5.0	JC\MD	Ok
15	Q2302-01	250611078-02-VOA	VN086980.D	12 Jun 2025 16:17	vial A pH#6.0 BSD Failed High;BS Failed High	JC\MD	ReRun
16	IBLK	IBLK	VN086981.D	12 Jun 2025 16:39		JC\MD	Ok
17	IBLK	IBLK	VN086982.D	12 Jun 2025 17:02		JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061225

Review By	John Carlone	Review On	6/13/2025 10:24:38 AM
Supervise By	Maresh Dadoda	Supervise On	6/13/2025 10:59:22 AM
SubDirectory	VN061225	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134291		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134292,VP134293		

18	Q2302-02	250611056-09-TRIP-BL	VN086983.D	12 Jun 2025 17:25	vial A pH#6.0 TB	JC\MD	Ok
19	Q2268-09	TB-20250605	VN086984.D	12 Jun 2025 17:48	vial A pH<2 TB	JC\MD	Ok
20	Q2268-10	FB-20250605	VN086985.D	12 Jun 2025 18:10	vial A pH<2 FB	JC\MD	Ok
21	Q2268-01	MW-4-20250605	VN086986.D	12 Jun 2025 18:33	vial A pH<2	JC\MD	Ok
22	Q2268-02	MW-5-20250605	VN086987.D	12 Jun 2025 18:56	vial A pH<2	JC\MD	Ok
23	Q2268-06	MW-2-20250605-A	VN086988.D	12 Jun 2025 19:18	vial A pH<2 Need 10X	JC\MD	Dilution
24	Q2268-07	MW-6-20250605	VN086989.D	12 Jun 2025 19:41	vial A pH<2 Need 20X	JC\MD	Dilution
25	Q2268-08	MW-3-20250605	VN086990.D	12 Jun 2025 20:04	vial A pH<2 Need 20X; E flag of previous sample	JC\MD	Dilution
26	Q2268-03	MW-2-20250605	VN086991.D	12 Jun 2025 20:26	vial A pH<2 Need 10X	JC\MD	Dilution
27	Q2268-04MS	MW-2-20250605MS	VN086992.D	12 Jun 2025 20:48	vial A pH<2	JC\MD	Ok,M
28	Q2268-05MSD	MW-2-20250605MSD	VN086993.D	12 Jun 2025 21:11	vial A pH<2	JC\MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VN086994.D	12 Jun 2025 21:33		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061325

Review By	John Carlone	Review On	6/16/2025 9:41:28 AM
Supervise By	Maresh Dadoda	Supervise On	6/16/2025 5:03:41 PM
SubDirectory	VN061325	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134329
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134330,VP134331

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086995.D	13 Jun 2025 10:26		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086996.D	13 Jun 2025 12:52	pH#Lot#V12668	JC\MD	Ok,M
3	VN0613MBL01	VN0613MBL01	VN086997.D	13 Jun 2025 13:26		JC\MD	Ok
4	VN0613WBL01	VN0613WBL01	VN086998.D	13 Jun 2025 13:47		JC\MD	Ok
5	Q2282-04	251233	VN086999.D	13 Jun 2025 14:10	vial A pH<2	JC\MD	Ok
6	VN0613WBS01	VN0613WBS01	VN087000.D	13 Jun 2025 14:32	BS Failed High For Com.#17,69	JC\MD	Ok,M
7	VN0613WBSD01	VN0613WBSD01	VN087001.D	13 Jun 2025 15:06	BSD Failed High For Comp.#17,52,88	JC\MD	Ok,M
8	Q2314-06	VPB182-HYD-2025061	VN087002.D	13 Jun 2025 15:28	vial A pH<2	JC\MD	Ok
9	Q2314-01	BP-VPB-182-TB-20250	VN087003.D	13 Jun 2025 15:50	vial A pH<2 TB	JC\MD	Ok
10	Q2314-05	BP-VPB-182-EB-20250	VN087004.D	13 Jun 2025 16:12	vial A pH<2 EB,Hit of com.#16,25	JC\MD	ReRun
11	Q2314-04	BP-VPB-182-GW-880-8	VN087005.D	13 Jun 2025 16:34	vial A pH<2	JC\MD	Ok
12	Q2314-02	BP-VPB-182-GW-820-8	VN087006.D	13 Jun 2025 16:56	vial A pH<2	JC\MD	Ok
13	Q2314-05	BP-VPB-182-EB-20250	VN087007.D	13 Jun 2025 17:18	vial B pH<2 EB	JC\MD	Ok
14	IBLK	IBLK	VN087008.D	13 Jun 2025 17:40		JC\MD	Ok
15	IBLK	IBLK	VN087009.D	13 Jun 2025 18:02		JC\MD	Ok
16	Q2268-03DL	MW-2-20250605DL	VN087010.D	13 Jun 2025 18:24	vial B pH<2	JC\MD	Ok
17	Q2268-06DL	MW-2-20250605-ADL	VN087011.D	13 Jun 2025 18:46	vial B pH<2	JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061325

Review By	John Carlone	Review On	6/16/2025 9:41:28 AM
Supervise By	Maresh Dadoda	Supervise On	6/16/2025 5:03:41 PM
SubDirectory	VN061325	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134329		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134330,VP134331		

18	Q2268-07DL	MW-6-20250605DL	VN087012.D	13 Jun 2025 19:07	BS,BSD Failed High	JC\MD	Not Ok
19	Q2268-08DL	MW-3-20250605DL	VN087013.D	13 Jun 2025 19:29	BS,BSD Failed High	JC\MD	Not Ok
20	Q2302-01RE	250611078-02-VOARE	VN087014.D	13 Jun 2025 19:51	vial C pH#6.0	JC\MD	Confirms
21	VSTDCCC050	VSTDCCC050EC	VN087015.D	13 Jun 2025 20:13		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061625

Review By	John Carlone	Review On	6/17/2025 9:59:38 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/17/2025 4:00:38 PM
SubDirectory	VN061625	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134352
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134353,VP134354

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087016.D	16 Jun 2025 08:39		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087017.D	16 Jun 2025 09:48	pH#Lot#V12668	JC\MD	Ok,M
3	VN0616MBL01	VN0616MBL01	VN087018.D	16 Jun 2025 10:22		JC\MD	Ok
4	VN0616WBL01	VN0616WBL01	VN087019.D	16 Jun 2025 10:43		JC\MD	Ok
5	VN0616WBS01	VN0616WBS01	VN087020.D	16 Jun 2025 11:04		JC\MD	Ok,M
6	VN0616WBSD01	VN0616WBSD01	VN087021.D	16 Jun 2025 11:39		JC\MD	Ok,M
7	Q2286-03	LAW-25-0084	VN087022.D	16 Jun 2025 12:01	vial A pH<2 brown/turbid sample	JC\MD	Ok
8	Q2299-01	RE117D1-20250609	VN087023.D	16 Jun 2025 12:22	vial A pH<2	JC\MD	Ok
9	Q2299-06	TT191D2-20250609	VN087024.D	16 Jun 2025 12:43	vial A pH<2	JC\MD	Ok
10	Q2299-07	RW10-MW01S-202506	VN087025.D	16 Jun 2025 13:04	vial A pH<2	JC\MD	Ok
11	Q2299-08	RW10-MW01D-202506	VN087026.D	16 Jun 2025 13:25	vial A pH<2	JC\MD	Ok
12	Q2299-09	RW10A-MW01S-20250	VN087027.D	16 Jun 2025 13:47	vial A pH<2	JC\MD	Ok
13	Q2299-10	RW10A-MW01I-202506	VN087028.D	16 Jun 2025 14:08	vial A pH<2	JC\MD	Ok
14	Q2299-11	TT1581I-20250610	VN087029.D	16 Jun 2025 14:29	vial A pH<2	JC\MD	Ok
15	Q2299-12	DUP01-20250610	VN087030.D	16 Jun 2025 14:50	vial A pH<2	JC\MD	Ok
16	Q2299-13	RE131D2-20250610	VN087031.D	16 Jun 2025 15:12	vial A pH<2	JC\MD	Ok
17	Q2299-14	DUP02-20250610	VN087032.D	16 Jun 2025 15:33	vial A pH<2	JC\MD	Ok
18	Q2299-15	TT1741I-20250610	VN087033.D	16 Jun 2025 15:54	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061625

Review By	John Carlone	Review On	6/17/2025 9:59:38 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/17/2025 4:00:38 PM
SubDirectory	VN061625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134352		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134353,VP134354		

19	Q2299-16	RE134D4-20250610	VN087034.D	16 Jun 2025 16:15	vial A pH<2 Need 5X	JC\MD	Dilution
20	Q2299-17	RE134D3-20250610	VN087035.D	16 Jun 2025 16:37	vial A pH<2 Need 10X	JC\MD	Dilution
21	Q2299-18	TT190D1-20250611	VN087036.D	16 Jun 2025 16:58	vial A pH<2 Need 5X	JC\MD	Dilution
22	Q2299-19	RW11-MW01I-20250611	VN087037.D	16 Jun 2025 17:19	vial A pH<2	JC\MD	Ok
23	Q2299-20	RW11-MW01S-20250611	VN087038.D	16 Jun 2025 17:41	vial A pH<2	JC\MD	Ok
24	Q2299-21	RE134D1-20250611	VN087039.D	16 Jun 2025 18:02	vial A pH<2	JC\MD	Ok
25	Q2299-22	TT190D2-20250611	VN087040.D	16 Jun 2025 18:24	vial A pH<2	JC\MD	Ok
26	Q2268-07DL	MW-6-20250605DL	VN087041.D	16 Jun 2025 18:45	vial B pH<2	JC\MD	Ok
27	Q2268-08DL	MW-3-20250605DL	VN087042.D	16 Jun 2025 19:07	vial B pH<2	JC\MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VN087043.D	16 Jun 2025 19:49		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2268

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vn061225,

Standard ID :

VP133174,VP133887,VP133935,VP133953,VP133991,VP134142,VP134149,VP134291,VP134292,VP134293,

Chemical ID :

V13391,V13706,V14290,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V14620,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14711,V14717,V14718,V14721,V14749,V14750,V14811,V14812,V14843,V14921,V14929,V14944,V14945,V14946,V14947,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133887	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/14/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133991	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025
<u>FROM</u> 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u> 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml								

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP134291	06/12/2025	06/13/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

[illegible][illegible]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	05/12/2025 / SAM	08/15/2024 / SAM	V14432

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14503

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14504

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14711

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14717

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14721

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/13/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14749

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14750

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	11/12/2025	05/12/2025 / SAM	01/08/2025 / SAM	V14811

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	06/30/2026	05/12/2025 / SAM	01/08/2025 / SAM	V14812

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14944

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14946

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

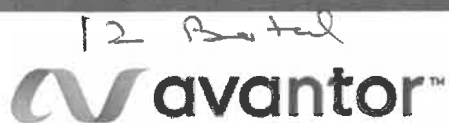
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



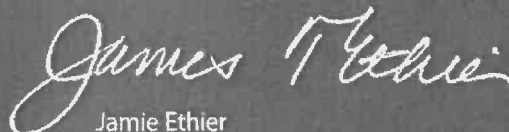
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

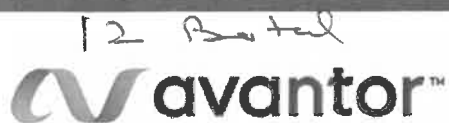
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



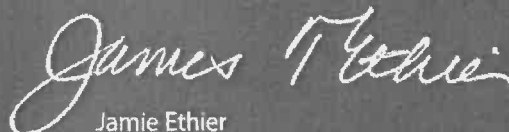
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KMe) Part Number	Lot Number	Dir. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3460mg/kg
10. Methacrylonitrile	(0472)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 435g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-6	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-6	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-r

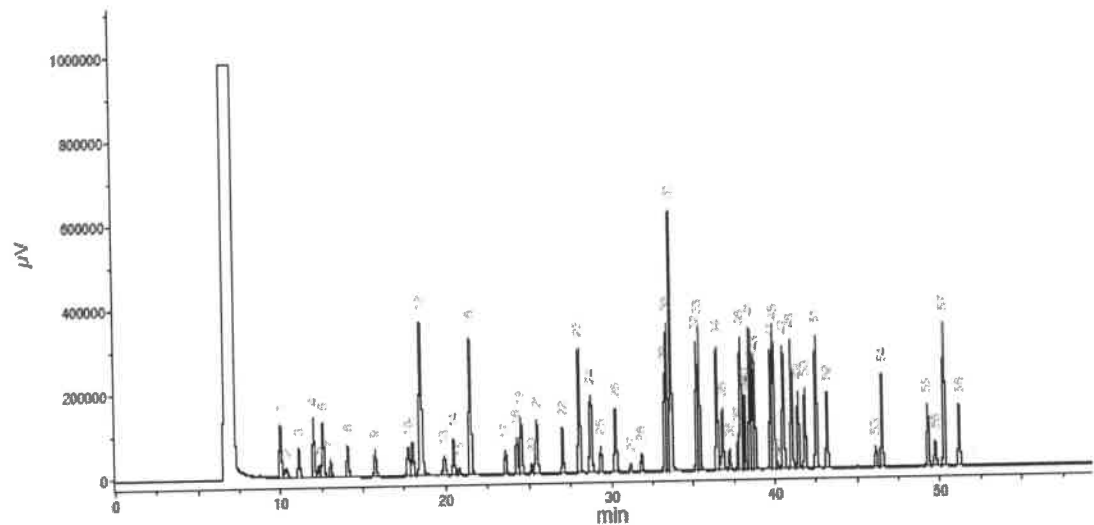


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinyltoluene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloroethene	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

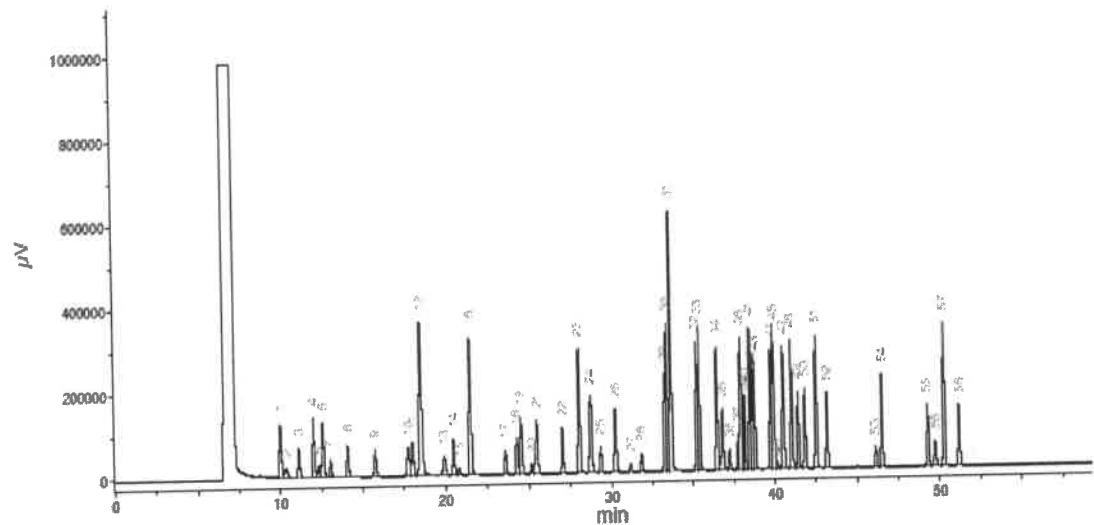
Compound	(K049)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information				
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Actual Conc (µg/mL)	Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2480mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg	
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A	
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A	
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A	
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg	
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	N/A	N/A	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	N/A	N/A	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	58-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg	
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg	
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-1	N/A	or-rat 2699mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg	
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-6	N/A	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
63. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)		



Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinyltoluene/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentopropane	27.07
22	cis-1,2-Dichloroethane	28.73
23	Toluene	29.34
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.39
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	2-Chlorobenzene	38.50
42	4-Chlorobenzene	38.63
43	tert-Butylbenzene	38.77
44	sec-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	40.17
46	1,2,4-Trimethylbenzene	40.52
47	p-Isopropyltoluene	41.02
48	1,3-Trichlorobenzene	41.42
49	1,4-Dichlorobenzene	41.83
50	n-Butylbenzene	42.52
51	1,2-Dichlorobenzene	42.18
52	1,2-Dichloropropane	46.12
53	1,2-Dichloro-3-methylpropane	46.40
54	Nitrobenzene	49.26
55	1,2,4-Trichlorobenzene	49.72
56	Hexachlorocyclopentadiene	50.56
57	Naphthalene	51.16
58	1,2,3-Trichlorobenzene	

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Lot

Number

RM#

5

103755V10F

5000

97

0.5

0.05186

0.05175

5008.9

52.5

107-02-8

0.1 ppm

ori-rat 46mg/kg

SDS Information

(Solvent Safety Info. On Attached pg.)

CAS#

OSHA PEL (TWA)

LD50

Formulated By: Justin Dippold

DATE 091424

Reviewed By: Pedro L. Rentas

DATE 091424

1. Acrolein

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately.

Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

Abundance

250000

8.93

200000



60000

50000

56

150000

40000

30000

20000

10000

37

50000

44

65

75

85

119

158

169

Time-->

10.00

15.00

20.00

25.00

30.00

35.00

40.00

45.00

50.00

55.00

60.00

m/z-->

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

56

150000

40000

30000

100000

20000

50000

10000

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

44 65 75 85 119 158 169

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

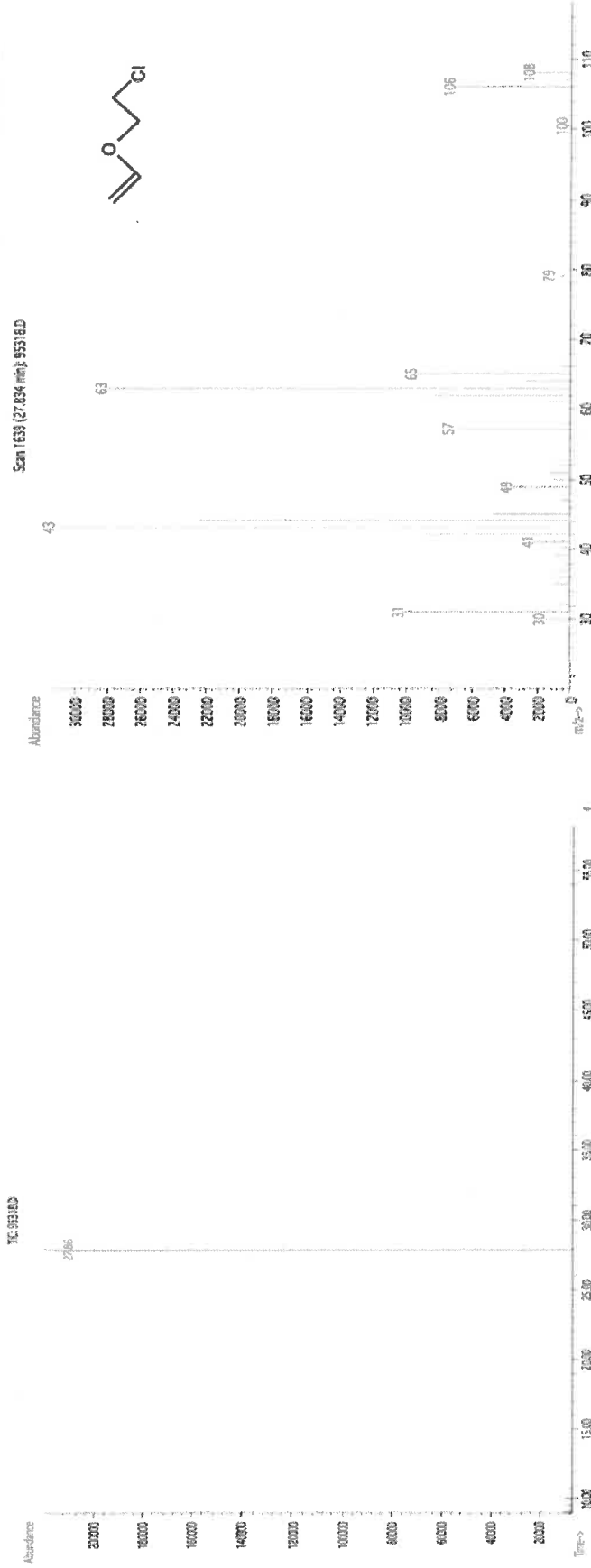
✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

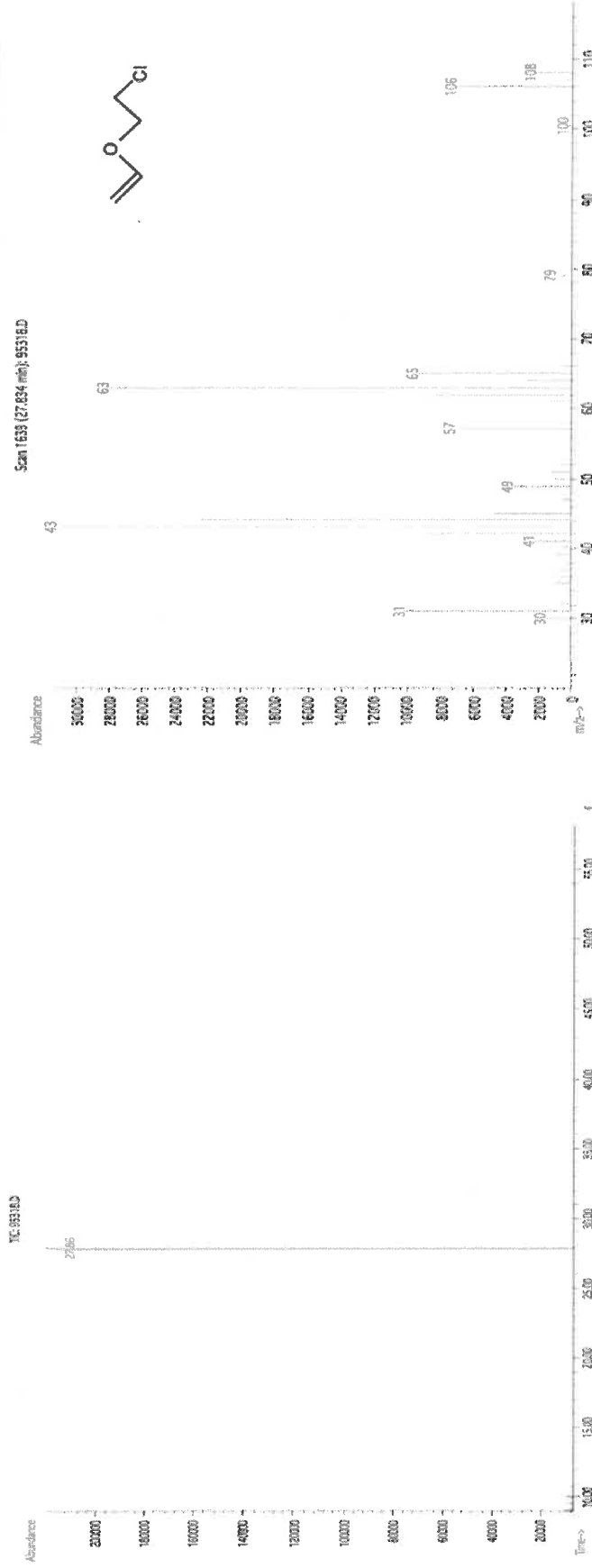
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

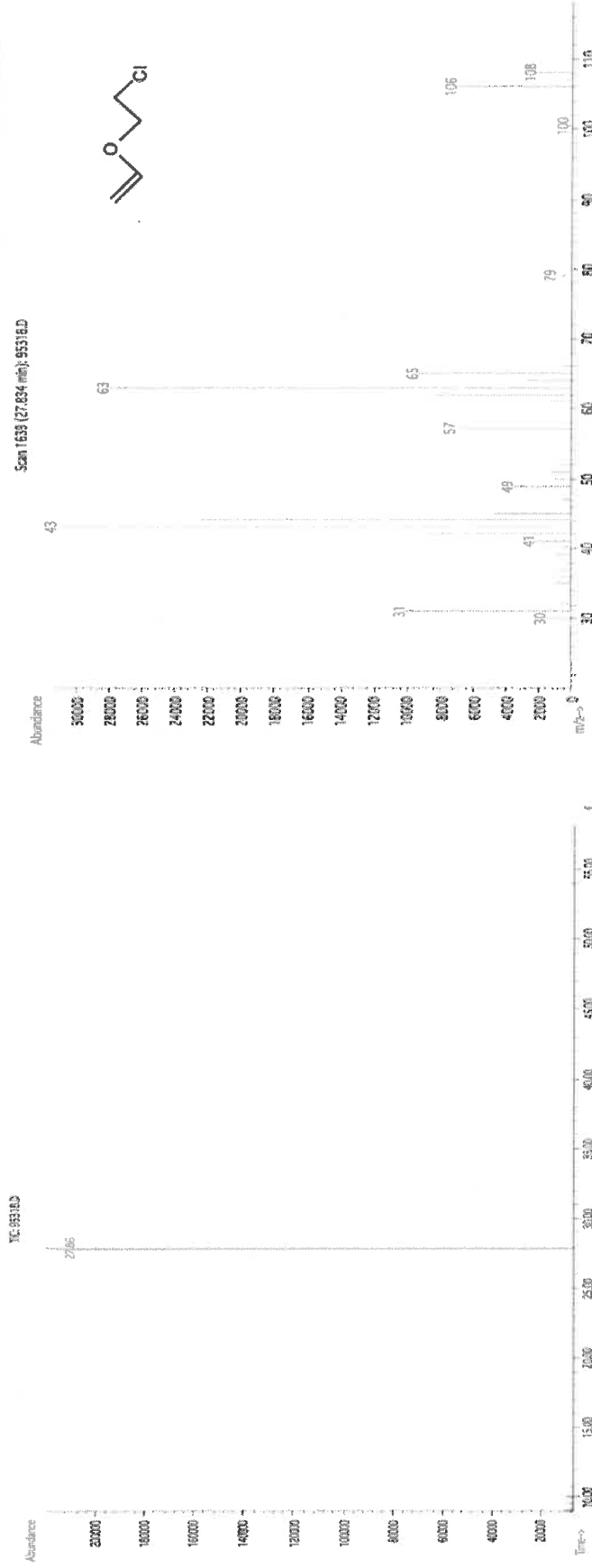
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

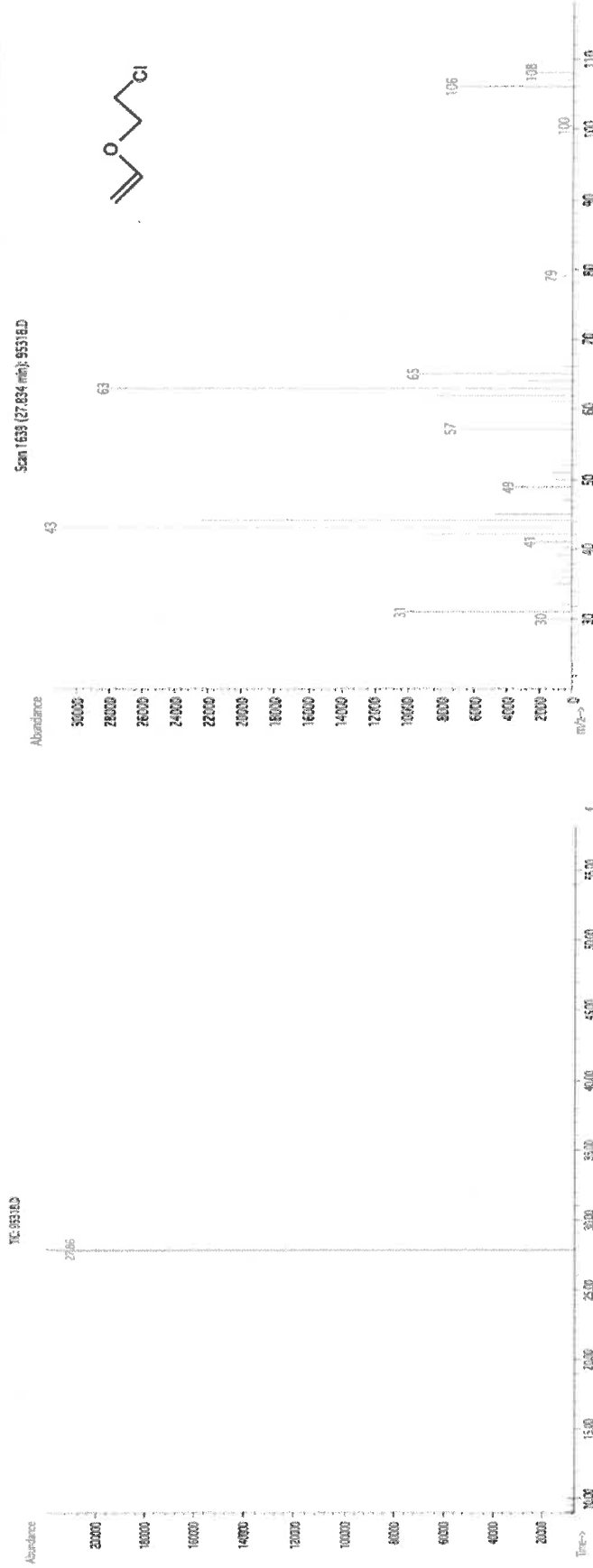
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (±) (µg/mL) CAS# OSHA PEL (TWA) LDSO

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	CAS#	OSHA PEL (TWA)	LDSO
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302, 332	If on skin, wash with soap and water	P305, 351, 338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	% (optional)
Methanol METHYL ALCOHOL CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

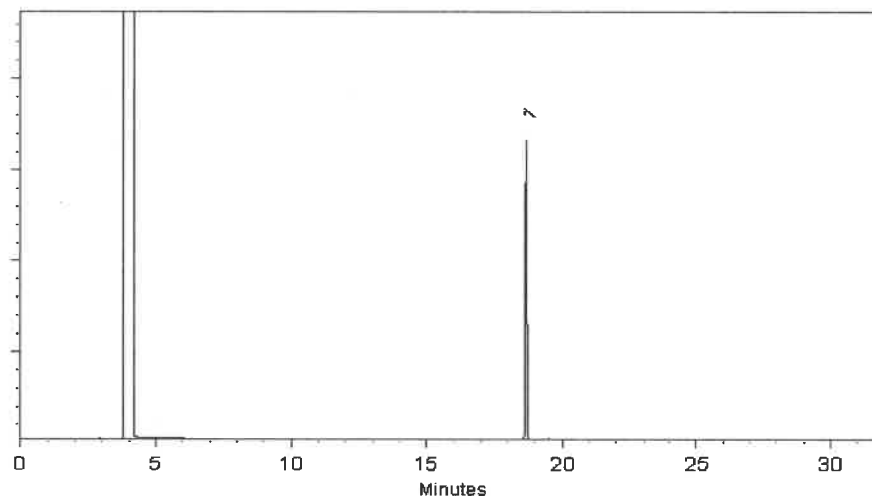
FID

Split Vent:

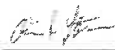
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

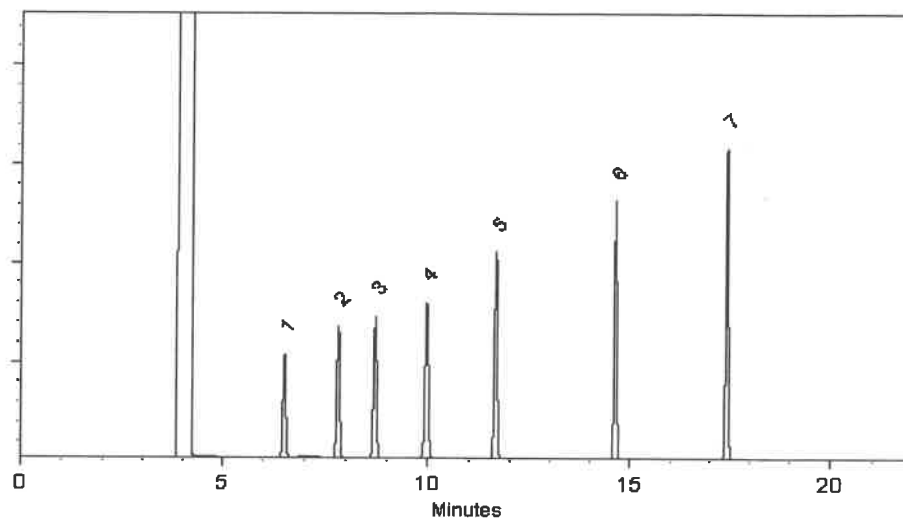
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

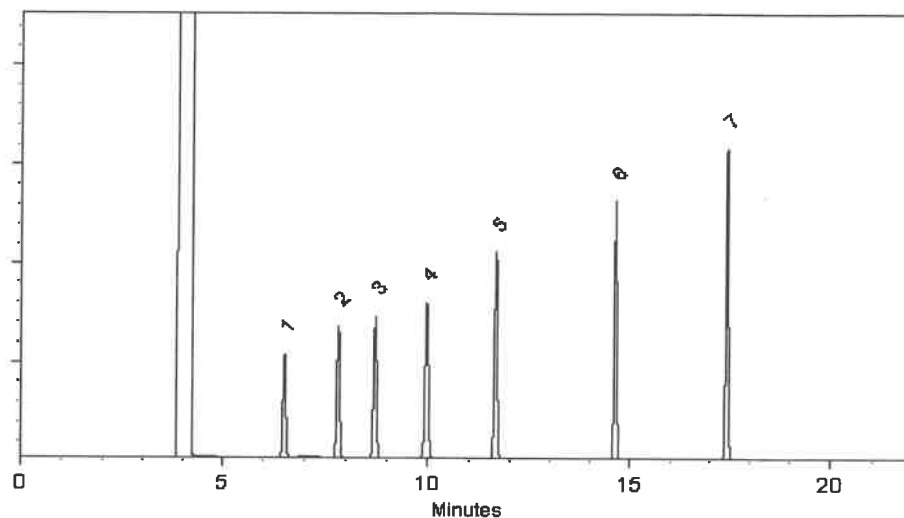
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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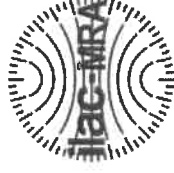
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 **Lot No.:** A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

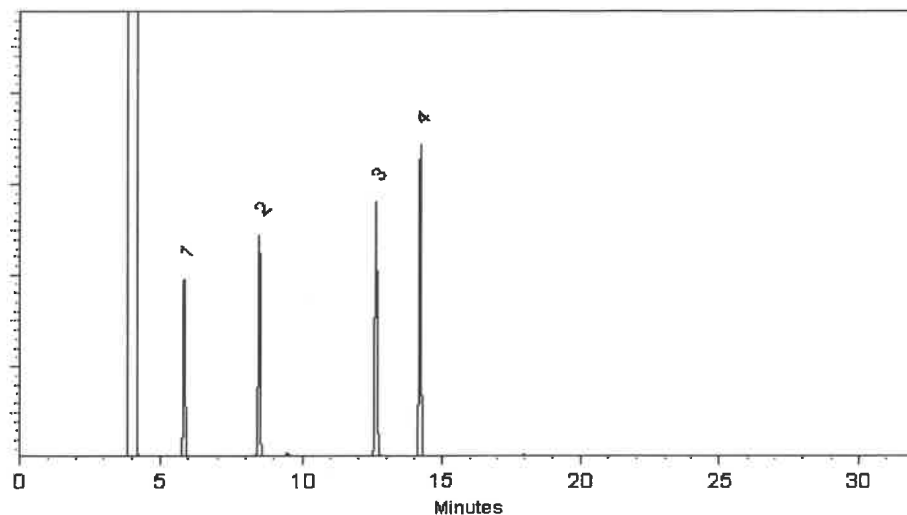
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

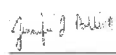


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

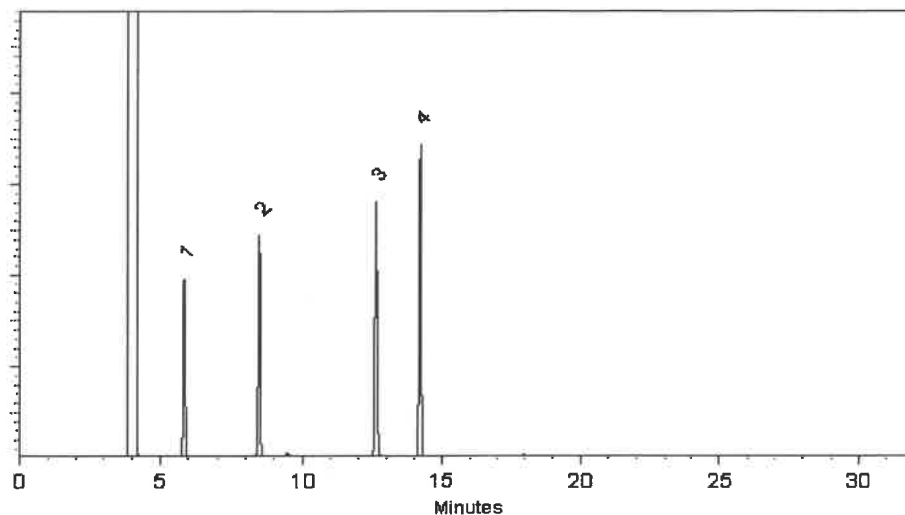
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

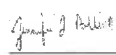


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

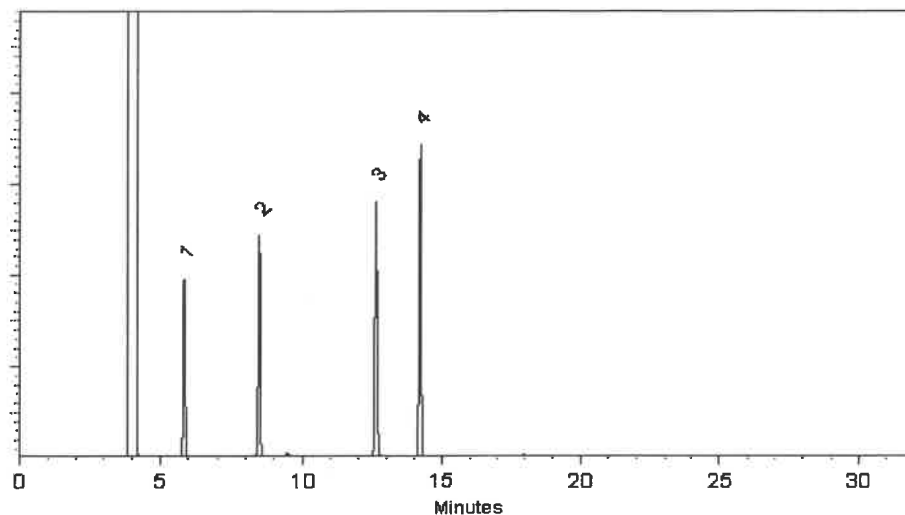
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

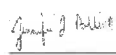


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

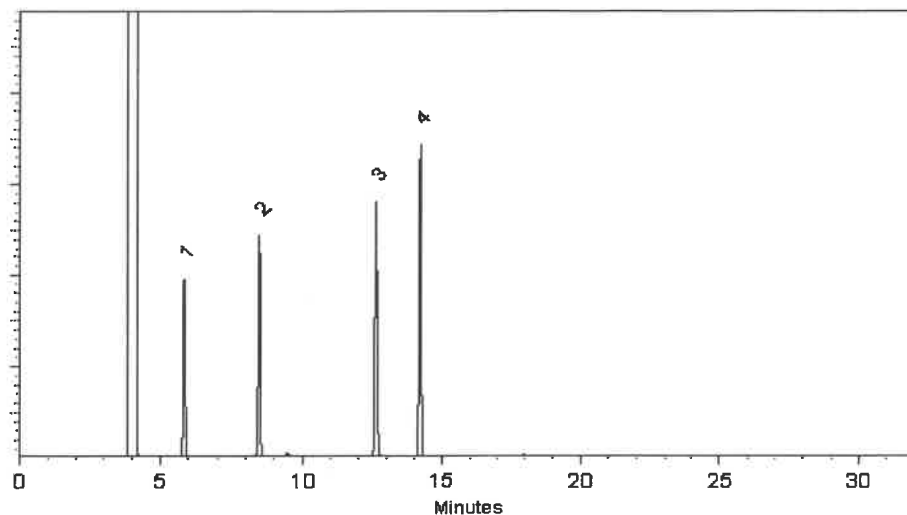
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

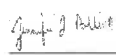


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

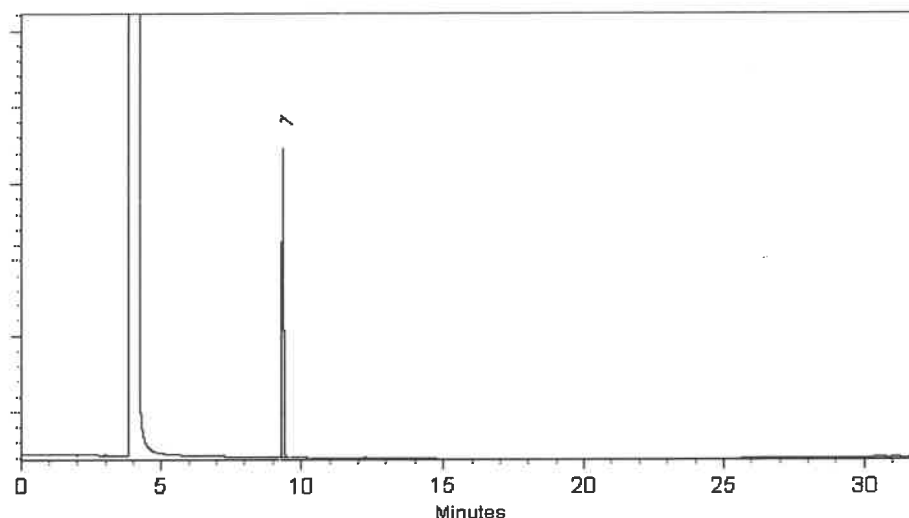
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

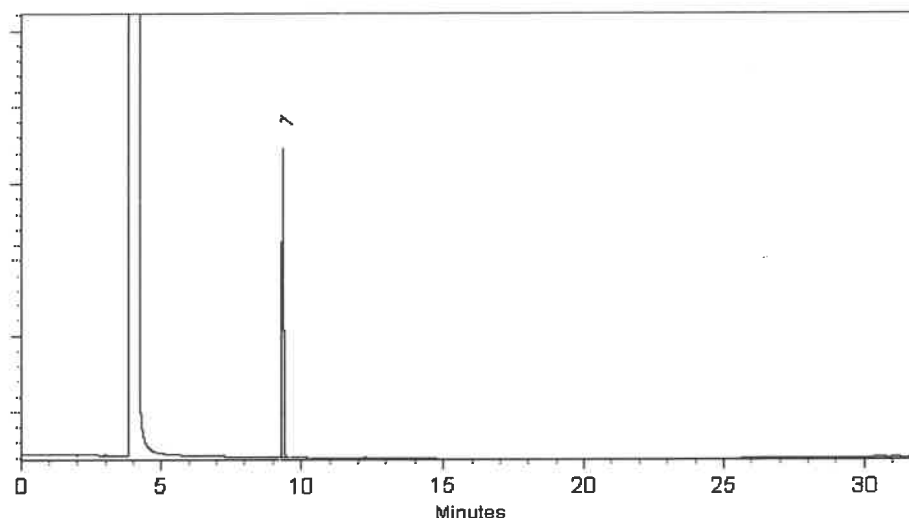
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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10 vial.
CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667-5

V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

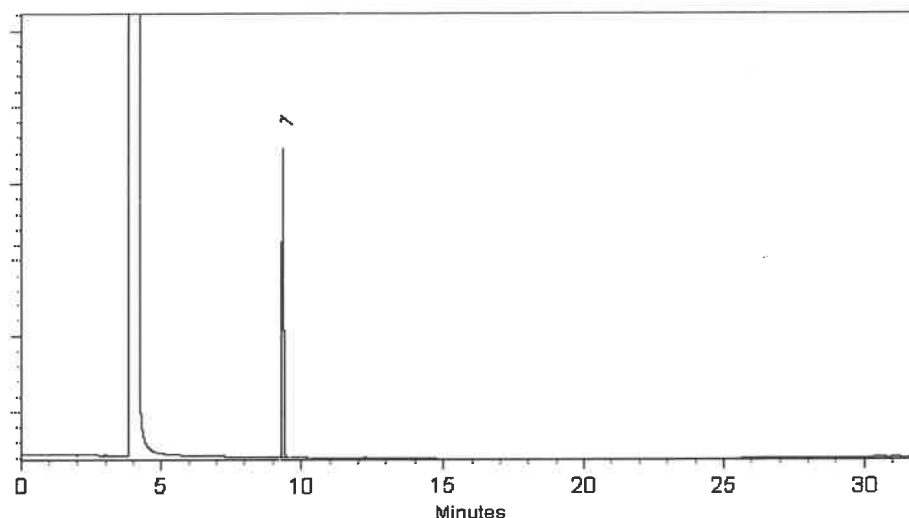
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

V14667-5
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

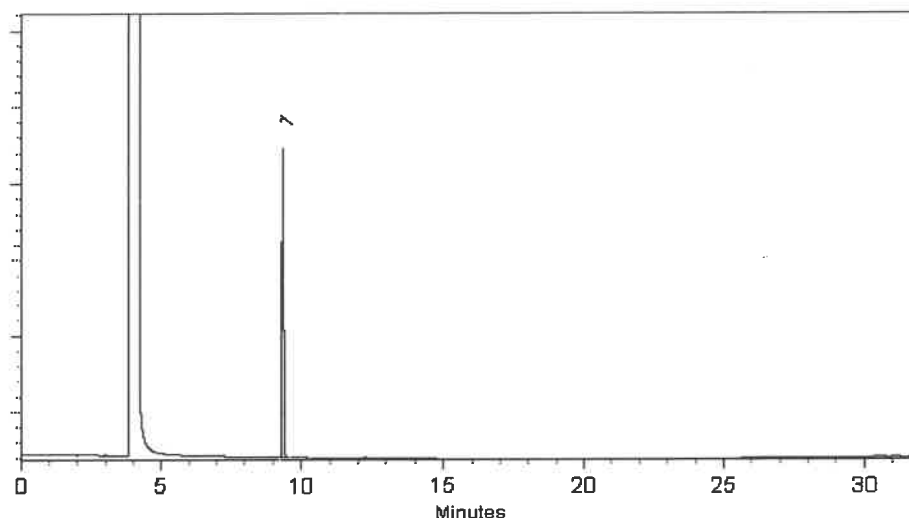
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Rec 12/17/24
30 ml
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chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

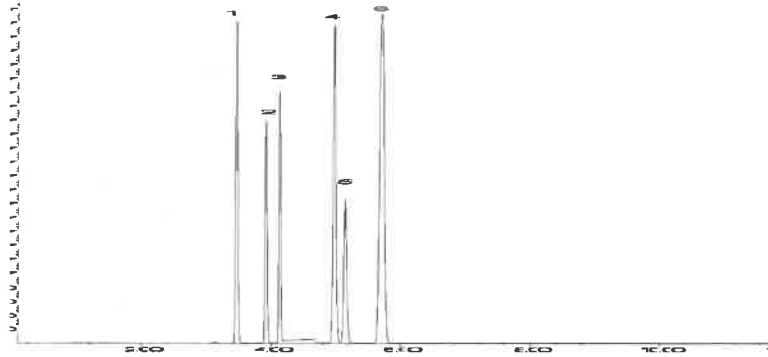
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

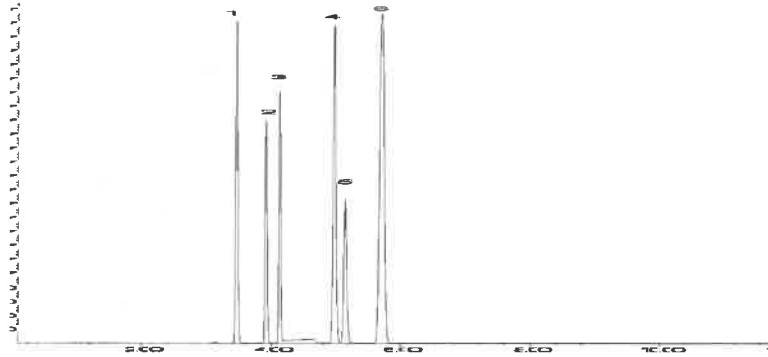
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

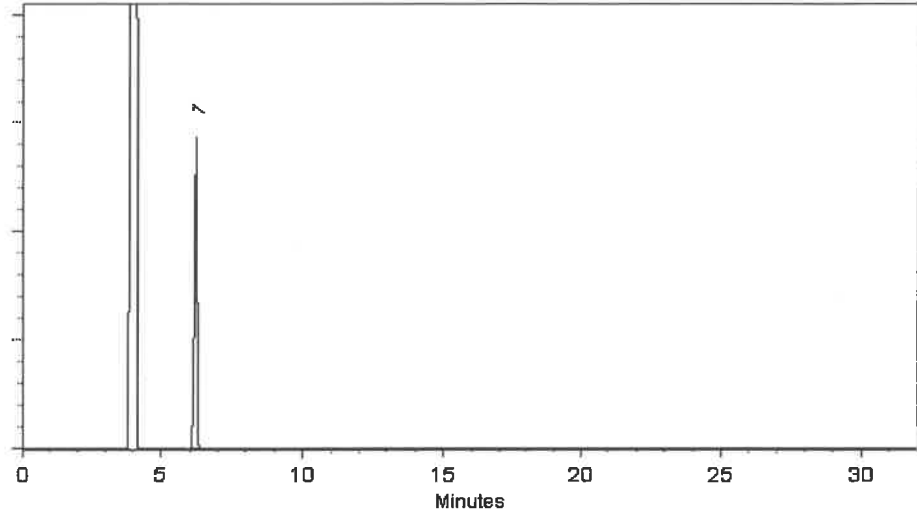
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

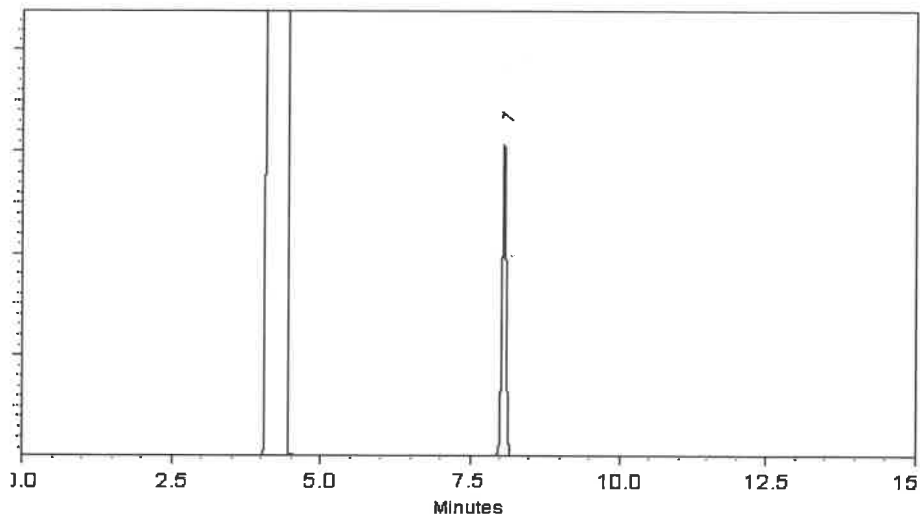
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



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Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

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Rtx-502.2 (cat.#10910)

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hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

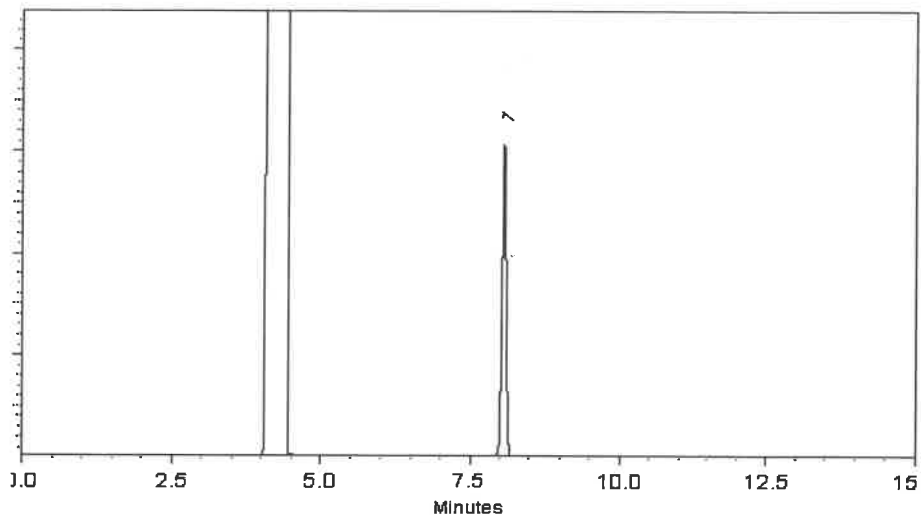
FID

Split Vent:

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Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25
Avantor™



*V14921 to
V14938*

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 82608 CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25
Avantor™



*V14921 to
V14938*

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

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Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
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For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Mark
Jamie Croak
Director Quality Operations, Bioscience Production



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

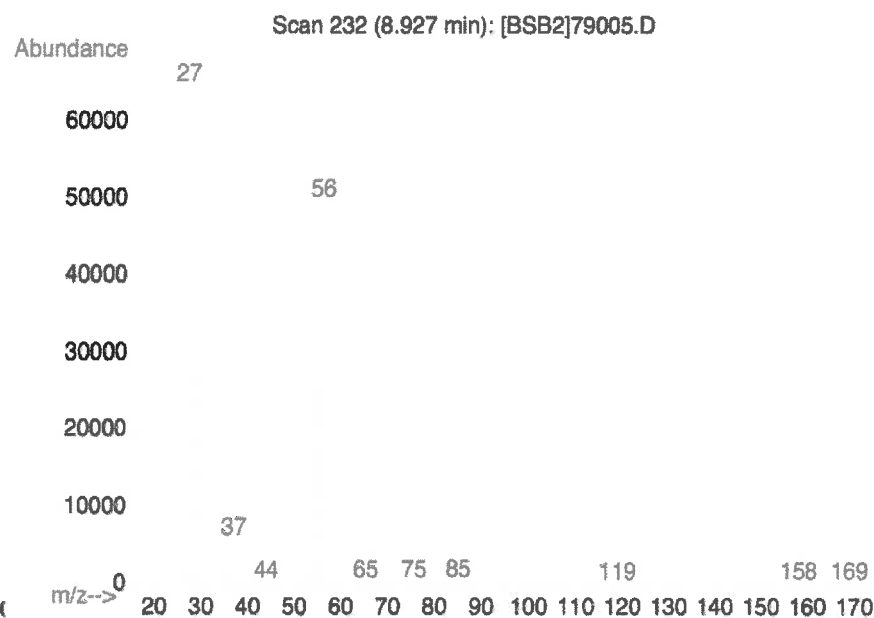
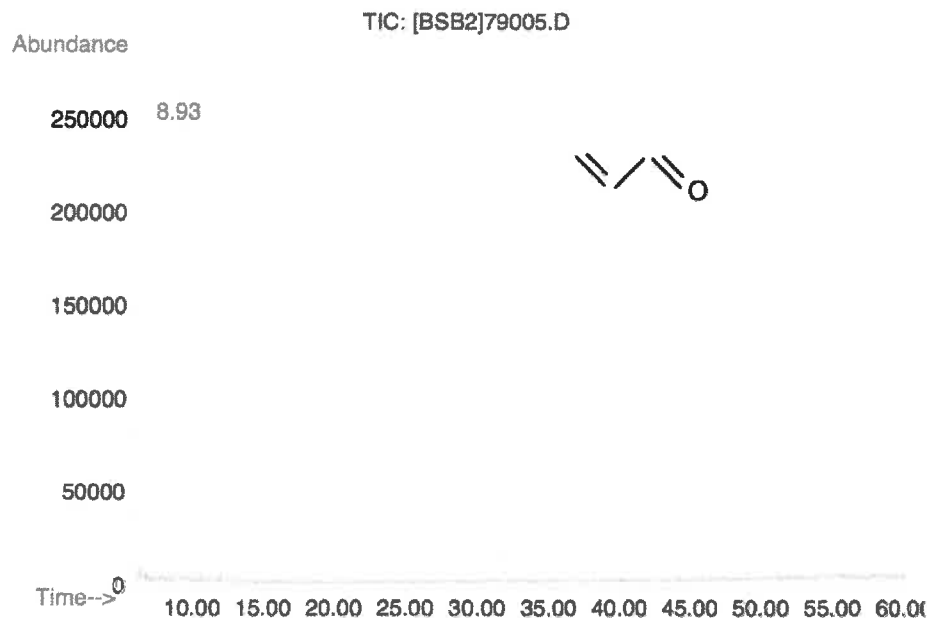
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

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Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

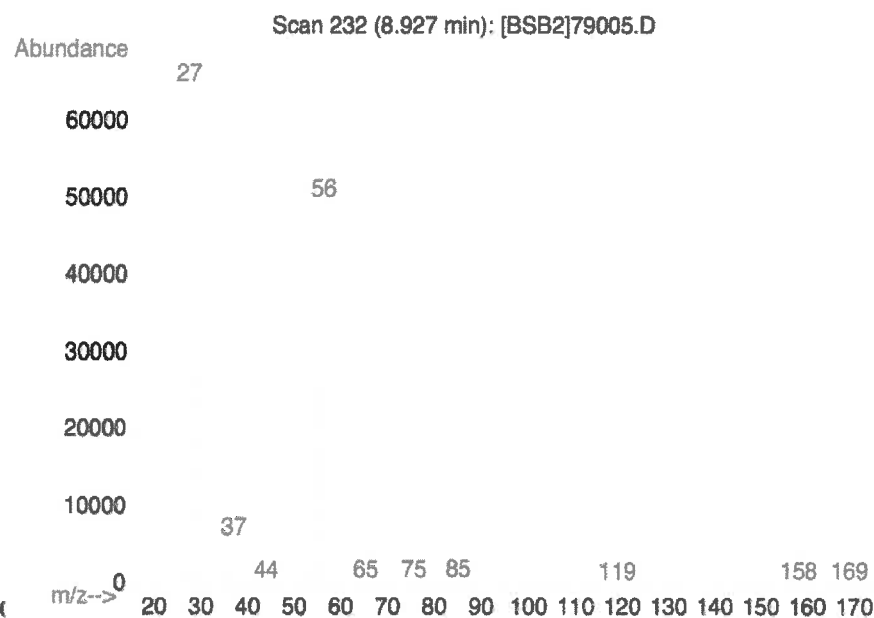
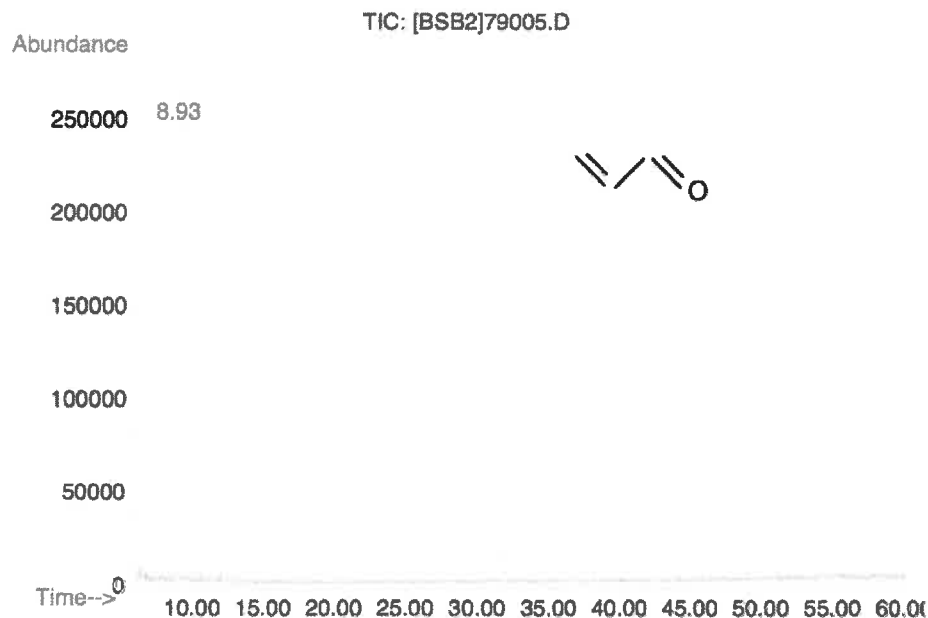
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Certified Reference Material CRM

see 05/21/25



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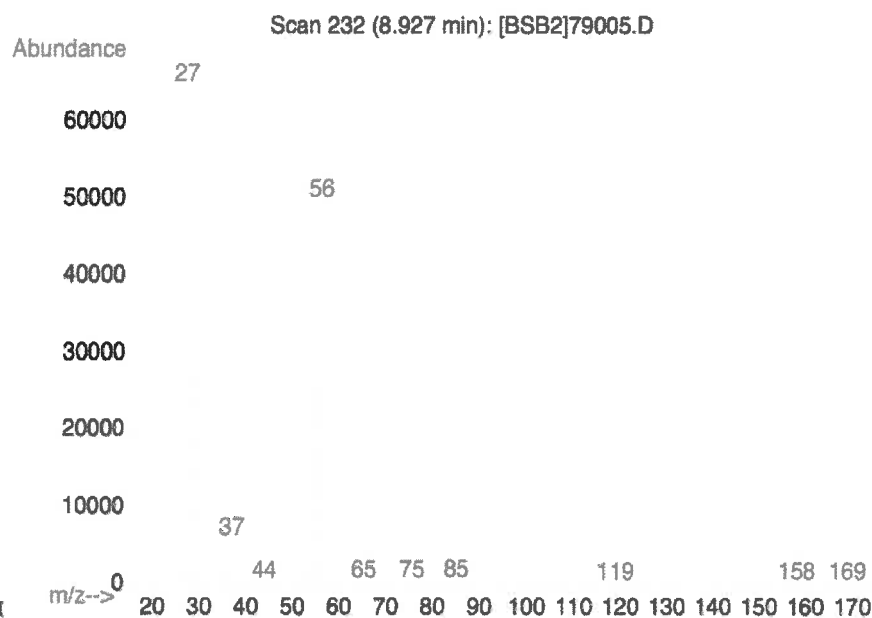
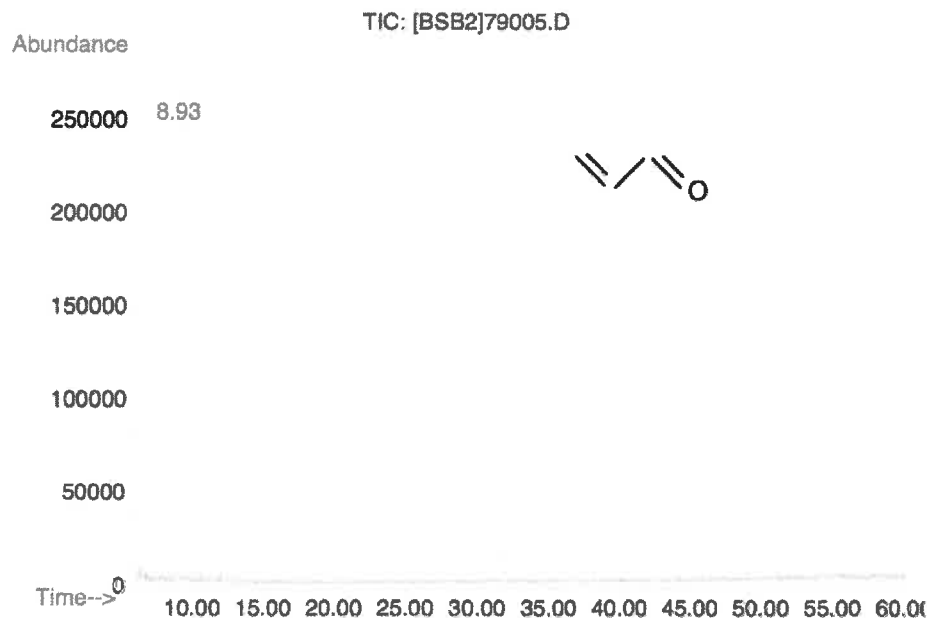
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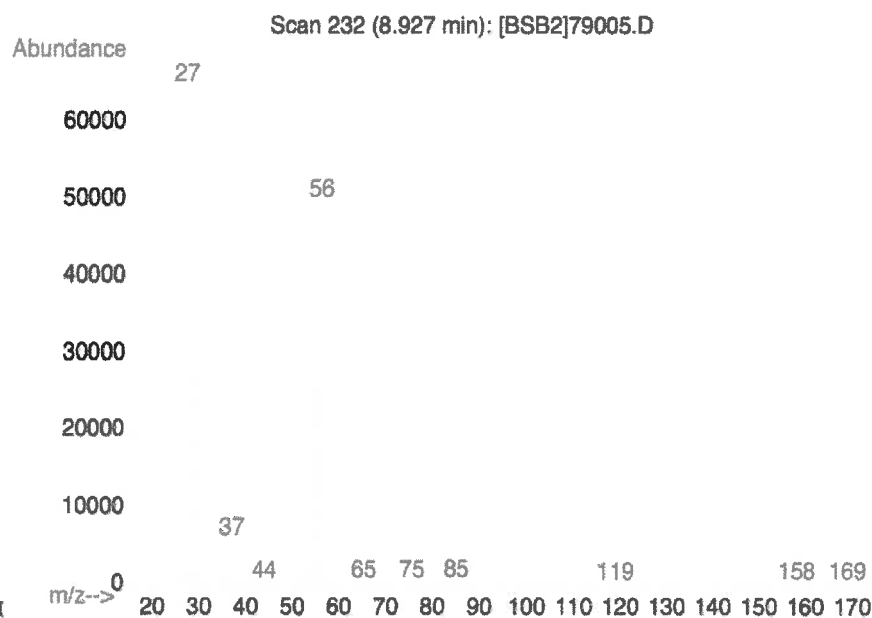
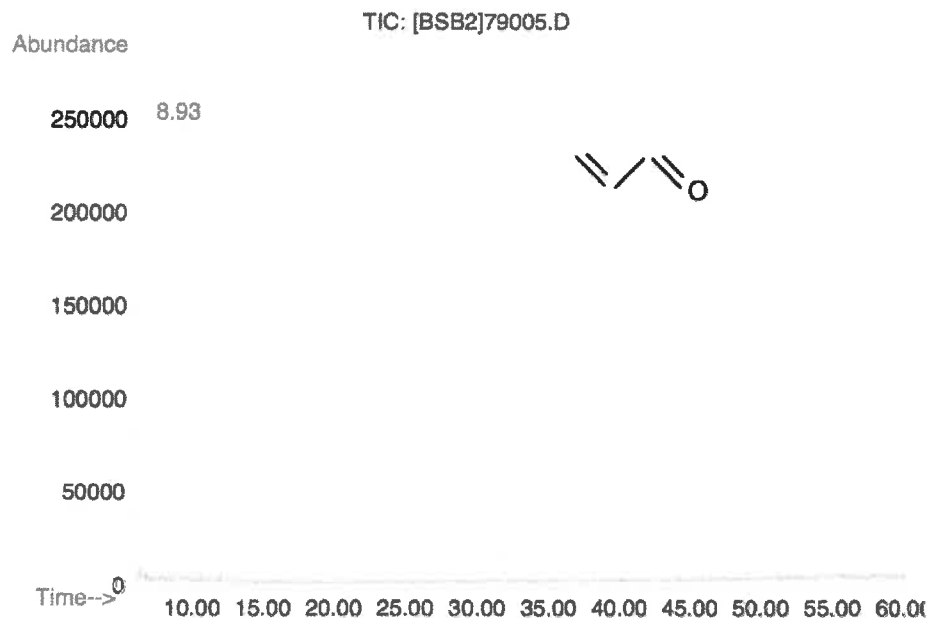
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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Parsons
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP:
ATTENTION: Stephen Liberatore
PHONE: 315-418-8767 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 455 Con Ed Atlantic Ave
PROJECT NO.: 153957-0100 LOCATION: Brooklyn, NY
PROJECT MANAGER: Stephen Liberatore
e-mail: Stephen.Liberatore@parsons.com
PHONE: 315-8767 FAX:

CLIENT BILLING INFORMATION

BILL TO: Parsons PO#:
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore PHONE: 315-418-8767

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): ↓ DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

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

VOCs+TICs
SVOCs+TICs
Sulfate
TDS

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	E	E	E						
								1	2	3	4	5	6	7	8	9	
1.	MW-4-20250605	W		X	6/5/25	0920	4	X		X	X						
2.	MW-5-20250605	W		X	6/5/25	1040	4	X		X	X						
3.	MW-2-20250605	W		X	6/5/25	1215	15	X	X	X	X						MS/MSD
4.	MW-2-20250605-a	W		X	6/5/25	1215	5	X	X	X	X						FD
5.	MW-6-20250605	W		X	6/5/25	1350	5	X	X	X	X						
6.	MW-3-20250605	W		X	6/5/25	1445	5	X	X	X	X						
7.	TB-20250605	W		X	6/5/25	—	2	X									
8.	FB-20250605	W		X	6/5/25	1500	5	X	X	X	X						
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>4m</u>	DATE/TIME: <u>6-5-25/1330</u>	RECEIVED BY: 1. <u>[Signature]</u> <u>6-6-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3:1</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u></u>	RECEIVED BY: 2. <u></u>	Comments: <u>Please cc kirsten.valentini@parsons.com</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>6-6-25</u>	RECEIVED BY: 3. <u></u>	CLIENT: ☐ Hand Delivered ☐ Other

Page of

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2268 PARS02

Order Date : 6/6/2025 2:21:00 PM

Project Mgr :

Client Name : PARSONS Engineering of I

Project Name : Con Ed Non MGP – Atlanti

Report Type : Results Only

Client Contact : Stephen Liberatore

Receive DateTime : 6/6/2025 ~~12:00:00~~ AM

EDD Type : Excel NY

Invoice Name : PARSONS Engineering of I

Purchase Order :

16:42

Hard Copy Date :

Invoice Contact : Stephen Liberatore

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2268-01	MW-4-20250605	Water	06/05/2025	09:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-02	MW-5-20250605	Water	06/05/2025	10:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-03	MW-2-20250605	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-04	Q2268-03MS	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-05	Q2268-03MSD	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-06	MW-2-20250605-A	Water	06/05/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-07	MW-6-20250605	Water	06/05/2025	13:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-08	MW-3-20250605	Water	06/05/2025	14:45					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2268	PARS02	Order Date : 6/6/2025 2:21:00 PM	Project Mgr :
Client Name : PARSONS Engineering of I		Project Name : Con Ed Non MGP - Atlanti	Report Type : Results Only
Client Contact : Stephen Liberatore		Receive DateTime : 6/6/2025 12:00:00 AM	EDD Type : Excel NY
Invoice Name : PARSONS Engineering of I		Purchase Order : 1642	Hard Copy Date :
Invoice Contact : Stephen Liberatore			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-09	TB-20250605	Water	06/05/2025	00:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2268-10	FB-20250605	Water	06/05/2025	15:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

[Signature]
6/9/25 0845

Received By :

Date / Time :

[Signature]
06/09/25 8.45 AM 4

SAMPLES RECEIVED ON 6/6/25 @ 1642
PLACED IN SM-REF-2

Storage Area : VOA Refridgerator Room