

Cover Page

Order ID : Q1774

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1774-02
Q1774-03
Q1774-04

Client Sample Number

TT-073-IDWGW-20250409
TT-074-IDWGW-20250409
TT-075-IDWGW-20250409

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: 4/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager # Ernie Wu

Chemtech Project # Q1774

Test Name: VOCMS Group4

A. Number of Samples and Date of Receipt:

3 Water samples were received on 04/10/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for VOCMS Group4.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOCMS Group4 was based on method 624.1.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {VN0411WBSD01} with File ID: VN086250.D met criteria except for Acrolein[23%] due to difference in results of BS and BSD.

The Blank Spike for {VN0411WBS01} with File ID: VN086249.D met requirements for all samples except for Carbon disulfide[109%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."



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“As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.”.

VIAL A and B combined to run samples#02,03 and 04 as all vials contained much sediment.

The SDG Q1774 is logged for VOCMS group4. Lab not certified for Hexachloroethane, Iodomethane, Methyl Methacrylate and tert-Butylbenzene compounds for 624.1 method.

The Sample # TT-075-IDWGW-20250409 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 35% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1774

MATRIX: Water

METHOD: 624.1

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike for {VN0411WBS01} with File ID: VN086249.D met requirements for all samples except for Carbon disulfide[109%] is failing high but no positive hit in associate sample therefore no corrective action taken. The Blank Spike Duplicate met requirements for all samples. The RPD for {VN0411WBSD01} with File ID: VN086250.D met criteria except for Acrolein[23%] due to difference in results of BS and BSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

"As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead."..

VIAL A and B combined to run samples#02,03 and 04 as all vials contained much sediment.

The SDG Q1774 is logged for VOCMS group4. Lab not certified for Hexachloroethane, Iodomethane, Methyl Methacrylate and tert-Butylbenzene compounds for 624.1 method.

The Sample # TT-075-IDWGW-20250409 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Trip Blank was not provided with this set of samples.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <35% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is >35% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1774

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 04/15/2025

LAB CHRONICLE

OrderID:	Q1774	OrderDate:	4/10/2025 10:43:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	F11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1774-02	TT-073-IDWGW-2025 0409	Water			04/09/25			04/10/25
			VOCMS Group4	624.1			04/11/25	
Q1774-03	TT-074-IDWGW-2025 0409	Water			04/09/25			04/10/25
			VOCMS Group4	624.1			04/11/25	
Q1774-04	TT-075-IDWGW-2025 0409	Water			04/09/25			04/10/25
			VOCMS Group4	624.1			04/11/25	

Hit Summary Sheet
SW-846

SDG No.: Q1774
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TT-073-IDWGW-20250409							
Q1774-02	TT-073-IDWGW-20250409	Water	Acetone	29.9		4.60	25.0	ug/L
Q1774-02	TT-073-IDWGW-20250409	Water	Trichloroethene	8.70		0.49	5.00	ug/L
			Total Voc :	38.6				
			Total Concentration:	38.6				
Client ID:	TT-074-IDWGW-20250409							
Q1774-03	TT-074-IDWGW-20250409	Water	Acetone	34.2		4.60	25.0	ug/L
Q1774-03	TT-074-IDWGW-20250409	Water	Trichloroethene	7.40		0.49	5.00	ug/L
			Total Voc :	41.6				
			Total Concentration:	41.6				
Client ID:	TT-075-IDWGW-20250409							
Q1774-04	TT-075-IDWGW-20250409	Water	Acetone	21.8	J	4.60	25.0	ug/L
Q1774-04	TT-075-IDWGW-20250409	Water	Trichloroethene	28.0		0.49	5.00	ug/L
Q1774-04	TT-075-IDWGW-20250409	Water	1,1,2-Trichloroethane	0.55	J	0.45	5.00	ug/L
			Total Voc :	50.4				
			Total Concentration:	50.4				



QC SUMMARY

Surrogate Summary

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1774-02	TT-073-IDWGW-20250409	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	30.1	100	91	112
		4-Bromofluorobenzene	30	29.0	97	63	112
Q1774-03	TT-074-IDWGW-20250409	1,2-Dichloroethane-d4	30	30.6	102	91	110
		Toluene-d8	30	31.0	103	91	112
		4-Bromofluorobenzene	30	28.6	95	63	112
Q1774-04	TT-075-IDWGW-20250409	1,2-Dichloroethane-d4	30	30.2	101	91	110
		Toluene-d8	30	31.4	105	91	112
		4-Bromofluorobenzene	30	28.6	95	63	112
VN0411WBL01	VN0411WBL01	1,2-Dichloroethane-d4	30	30.7	102	91	110
		Toluene-d8	30	30.8	103	91	112
		4-Bromofluorobenzene	30	28.6	95	63	112
VN0411WBS01	VN0411WBS01	1,2-Dichloroethane-d4	30	30.5	102	91	110
		Toluene-d8	30	30.3	101	91	112
		4-Bromofluorobenzene	30	29.8	99	63	112
VN0411WBSD0	VN0411WBSD01	1,2-Dichloroethane-d4	30	30.2	101	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	29.6	99	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086249.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBS01	Dichlorodifluoromethane	20	22.7	ug/L	114			72	118	
	Chloromethane	20	21.6	ug/L	108			1	205	
	Vinyl Chloride	20	21.5	ug/L	108			5	195	
	Bromomethane	20	20.4	ug/L	102			15	185	
	Chloroethane	20	21.1	ug/L	106			40	160	
	Trichlorofluoromethane	20	21.5	ug/L	108			50	150	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/L	109			64	127	
	1,1-Dichloroethene	20	21.4	ug/L	107			50	150	
	Acrolein	100	78.0	ug/L	78			60	140	
	Acrylonitrile	100	99.6	ug/L	100			60	140	
	Acetone	100	95.5	ug/L	96			41	148	
	Carbon disulfide	20	21.8	ug/L	109		*	76	107	
	Methyl tert-butyl Ether	20	21.2	ug/L	106			82	114	
	Methyl Acetate	20	20.1	ug/L	101			63	139	
	Methylene Chloride	20	21.2	ug/L	106			60	140	
	trans-1,2-Dichloroethene	20	20.9	ug/L	104			70	130	
	1,1-Dichloroethane	20	21.7	ug/L	109			70	130	
	Cyclohexane	20	21.6	ug/L	108			79	113	
	2-Butanone	100	96.8	ug/L	97			69	129	
	Carbon Tetrachloride	20	20.9	ug/L	104			70	130	
	2,2-Dichloropropane	20	21.1	ug/L	106			62	139	
	cis-1,2-Dichloroethene	20	21.4	ug/L	107			81	112	
	Chloroform	20	21.7	ug/L	109			70	135	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70	130	
	Methylcyclohexane	20	20.9	ug/L	104			79	112	
	1,1-Dichloropropene	20	20.8	ug/L	104			70	139	
	Benzene	20	21.0	ug/L	105			65	135	
	1,2-Dichloroethane	20	20.9	ug/L	104			70	130	
	Trichloroethene	20	20.2	ug/L	101			65	135	
	1,2-Dichloropropane	20	20.9	ug/L	104			35	165	
	Dibromomethane	20	20.0	ug/L	100			72	138	
	Bromodichloromethane	20	20.6	ug/L	103			65	135	
	4-Methyl-2-Pentanone	100	100	ug/L	100			73	131	
	Toluene	20	21.4	ug/L	107			70	130	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			50	150	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			25	175	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			70	130	
	1,3-Dichloropropane	20	20.9	ug/L	104			70	141	
	2-Hexanone	100	100	ug/L	100			72	128	
	Dibromochloromethane	20	20.4	ug/L	102			70	135	
	1,2-Dibromoethane	20	20.0	ug/L	100			86	114	
	Tetrachloroethene	20	20.9	ug/L	104			70	130	
	Chlorobenzene	20	20.6	ug/L	103			65	135	
	1,1,1,2-Tetrachloroethane	20	21.3	ug/L	106			63	138	
	Hexachloroethane	20	20.4	ug/L	102			70	130	
	Ethyl Benzene	20	21.0	ug/L	105			60	140	
	m/p-Xylenes	40	41.7	ug/L	104			87	111	
	o-Xylene	20	21.1	ug/L	106			87	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086249.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBS01	Styrene	20	20.9	ug/L	104			85	106	
	Bromoform	20	19.9	ug/L	100			70	130	
	Isopropylbenzene	20	21.2	ug/L	106			86	112	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104			60	140	
	1,2,3-Trichloropropane	20	20.3	ug/L	102			61	148	
	Bromobenzene	20	20.6	ug/L	103			59	142	
	N-propylbenzene	20	21.2	ug/L	106			67	139	
	2-Chlorotoluene	20	21.0	ug/L	105			66	138	
	1,3,5-Trimethylbenzene	20	21.4	ug/L	107			66	139	
	4-Chlorotoluene	20	20.6	ug/L	103			66	141	
	tert-Butylbenzene	20	20.7	ug/L	104			56	140	
	1,2,4-Trimethylbenzene	20	20.8	ug/L	104			63	142	
	Sec-butylbenzene	20	21.4	ug/L	107			63	144	
	p-Isopropyltoluene	20	21.3	ug/L	106			57	147	
	1,3-Dichlorobenzene	20	20.4	ug/L	102			70	130	
	1,4-Dichlorobenzene	20	20.4	ug/L	102			65	135	
	n-Butylbenzene	20	21.8	ug/L	109			49	157	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			65	135	
	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93			69	122	
	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			61	118	
	Hexachlorobutadiene	20	19.2	ug/L	96			16	187	
	Naphthalene	20	18.4	ug/L	92			45	152	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			38	159	
	Methyl iodide	20	21.2	ug/L	106			70	130	
	Methyl methacrylate	20	20.2	ug/L	101			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBSD01	Dichlorodifluoromethane	20	20.2	ug/L	101	12		72	118	20
	Chloromethane	20	19.2	ug/L	96	12		1	205	20
	Vinyl Chloride	20	19.3	ug/L	97	11		5	195	20
	Bromomethane	20	19.2	ug/L	96	6		15	185	20
	Chloroethane	20	19.1	ug/L	96	10		40	160	20
	Trichlorofluoromethane	20	19.4	ug/L	97	11		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/L	99	10		64	127	20
	1,1-Dichloroethene	20	19.1	ug/L	96	11		50	150	20
	Acrolein	100	97.7	ug/L	98	23	*	60	140	20
	Acrylonitrile	100	100	ug/L	100	0		60	140	20
	Acetone	100	100	ug/L	100	4		41	148	20
	Carbon disulfide	20	19.0	ug/L	95	14		76	107	20
	Methyl tert-butyl Ether	20	21.1	ug/L	106	0		82	114	20
	Methyl Acetate	20	20.9	ug/L	104	3		63	139	20
	Methylene Chloride	20	19.9	ug/L	100	6		60	140	20
	trans-1,2-Dichloroethene	20	18.8	ug/L	94	10		70	130	20
	1,1-Dichloroethane	20	20.1	ug/L	101	8		70	130	20
	Cyclohexane	20	19.3	ug/L	97	11		79	113	20
	2-Butanone	100	110	ug/L	110	13		69	129	20
	Carbon Tetrachloride	20	20.6	ug/L	103	1		70	130	20
	2,2-Dichloropropane	20	20.6	ug/L	103	3		62	139	20
	cis-1,2-Dichloroethene	20	19.7	ug/L	99	8		81	112	20
	Chloroform	20	19.9	ug/L	100	9		70	135	20
	1,1,1-Trichloroethane	20	20.3	ug/L	102	2		70	130	20
	Methylcyclohexane	20	20.1	ug/L	101	3		79	112	20
	1,1-Dichloropropene	20	20.6	ug/L	103	1		70	139	20
	Benzene	20	20.8	ug/L	104	1		65	135	20
	1,2-Dichloroethane	20	21.4	ug/L	107	3		70	130	20
	Trichloroethene	20	20.5	ug/L	103	2		65	135	20
	1,2-Dichloropropane	20	21.4	ug/L	107	3		35	165	20
	Dibromomethane	20	21.2	ug/L	106	6		72	138	20
	Bromodichloromethane	20	21.2	ug/L	106	3		65	135	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		73	131	20
	Toluene	20	20.7	ug/L	104	3		70	130	20
	t-1,3-Dichloropropene	20	21.4	ug/L	107	4		50	150	20
	cis-1,3-Dichloropropene	20	21.4	ug/L	107	3		25	175	20
	1,1,2-Trichloroethane	20	21.6	ug/L	108	6		70	130	20
	1,3-Dichloropropane	20	21.9	ug/L	110	6		70	141	20
	2-Hexanone	100	110	ug/L	110	10		72	128	20
	Dibromochloromethane	20	21.7	ug/L	109	7		70	135	20
	1,2-Dibromoethane	20	21.5	ug/L	108	8		86	114	20
	Tetrachloroethene	20	20.3	ug/L	102	2		70	130	20
	Chlorobenzene	20	20.6	ug/L	103	0		65	135	20
	1,1,1,2-Tetrachloroethane	20	21.2	ug/L	106	0		63	138	20
	Hexachloroethane	20	19.5	ug/L	98	4		70	130	20
	Ethyl Benzene	20	20.2	ug/L	101	4		60	140	20
	m/p-Xylenes	40	40.7	ug/L	102	2		87	111	20
	o-Xylene	20	20.8	ug/L	104	2		87	111	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1774

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Datafile : VN086250.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0411WBSD01	Styrene	20	20.9	ug/L	104	0		85	106	20
	Bromoform	20	20.8	ug/L	104	4		70	130	20
	Isopropylbenzene	20	20.4	ug/L	102	4		86	112	20
	1,1,2,2-Tetrachloroethane	20	21.6	ug/L	108	4		60	140	20
	1,2,3-Trichloropropane	20	21.3	ug/L	106	4		61	148	20
	Bromobenzene	20	20.7	ug/L	104	1		59	142	20
	N-propylbenzene	20	20.3	ug/L	102	4		67	139	20
	2-Chlorotoluene	20	20.1	ug/L	101	4		66	138	20
	1,3,5-Trimethylbenzene	20	20.5	ug/L	103	4		66	139	20
	4-Chlorotoluene	20	20.0	ug/L	100	3		66	141	20
	tert-Butylbenzene	20	19.8	ug/L	99	5		56	140	20
	1,2,4-Trimethylbenzene	20	20.5	ug/L	103	1		63	142	20
	Sec-butylbenzene	20	20.2	ug/L	101	6		63	144	20
	p-Isopropyltoluene	20	20.1	ug/L	101	5		57	147	20
	1,3-Dichlorobenzene	20	20.3	ug/L	102	0		70	130	20
	1,4-Dichlorobenzene	20	20.1	ug/L	101	1		65	135	20
	n-Butylbenzene	20	20.3	ug/L	102	7		49	157	20
	1,2-Dichlorobenzene	20	20.5	ug/L	103	3		65	135	20
	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103	10		69	122	20
	1,2,4-Trichlorobenzene	20	20.5	ug/L	103	4		61	118	20
	Hexachlorobutadiene	20	19.2	ug/L	96	0		16	187	20
	Naphthalene	20	20.7	ug/L	104	12		45	152	20
	1,2,3-Trichlorobenzene	20	20.5	ug/L	103	4		38	159	20
	Methyl iodide	20	19.1	ug/L	96	10		70	130	20
	Methyl methacrylate	20	21.1	ug/L	106	5		70	130	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0411WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1774

SAS No.: Q1774 SDG NO.: Q1774

Lab File ID: VN086251.D

Lab Sample ID: VN0411WBL01

Date Analyzed: 04/11/2025

Time Analyzed: 15:40

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
VN0411WBS01	VN0411WBS01	VN086249.D	04/11/2025
VN0411WBSD01	VN0411WBSD01	VN086250.D	04/11/2025
TT-073-IDWGW-20250409	Q1774-02	VN086252.D	04/11/2025
TT-074-IDWGW-20250409	Q1774-03	VN086253.D	04/11/2025
TT-075-IDWGW-20250409	Q1774-04	VN086254.D	04/11/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG NO.: Q1774
Lab File ID: VN086241.D BFB Injection Date: 04/11/2025
Instrument ID: MSVOA_N BFB Injection Time: 09:52
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	19.1
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	67.2
175	5.0 - 9.0% of mass 174	4.8 (7.1) 1
176	95.0 - 101.0% of mass 174	64.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC100	VSTDIC100	VN086242.D	04/11/2025	11:04
VSTDIC050	VSTDIC050	VN086244.D	04/11/2025	11:52
VSTDICCC020	VSTDICCC020	VN086245.D	04/11/2025	12:16
VSTDIC005	VSTDIC005	VN086246.D	04/11/2025	12:40
VN0411WBS01	VN0411WBS01	VN086249.D	04/11/2025	14:38
VN0411WBSD01	VN0411WBSD01	VN086250.D	04/11/2025	15:16
VN0411WBL01	VN0411WBL01	VN086251.D	04/11/2025	15:40
TT-073-IDWGW-20250409	Q1774-02	VN086252.D	04/11/2025	16:15
TT-074-IDWGW-20250409	Q1774-03	VN086253.D	04/11/2025	16:39
TT-075-IDWGW-20250409	Q1774-04	VN086254.D	04/11/2025	17:03
VSTDCCC020EC	VSTDCCC020	VN086255.D	04/11/2025	17:28

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG NO.: Q1774
Lab File ID: VN086245.D Date Analyzed: 04/11/2025
Instrument ID: MSVOA_N Time Analyzed: 12:16
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	30974	7.81	185020	9.10	163907	11.87
UPPER LIMIT	61948	8.312	370040	9.6	327814	12.365
LOWER LIMIT	15487	7.312	92510	8.6	81953.5	11.365
EPA SAMPLE NO.						
TT-073-IDWGW-20250409	16665	7.82	98006	9.10	84075	11.87
TT-074-IDWGW-20250409	19774	7.82	120171	9.09	102960	11.87
TT-075-IDWGW-20250409	29637	7.81	180090	9.10	151244	11.87
VN0411WBL01	32111	7.81	197127	9.10	168421	11.87
VN0411WBS01	32103	7.81	201467	9.10	175632	11.87
VN0411WBSD01	34735	7.81	202525	9.10	180363	11.86

IS1 = Bromochloromethane
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.



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25	
Project:	CTO WE13			Date Received:	04/10/25	
Client Sample ID:	TT-073-IDWGW-20250409			SDG No.:	Q1774	
Lab Sample ID:	Q1774-02			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086252.D	1		04/11/25 16:15	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	29.9		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	8.70		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25	
Project:	CTO WE13			Date Received:	04/10/25	
Client Sample ID:	TT-073-IDWGW-20250409			SDG No.:	Q1774	
Lab Sample ID:	Q1774-02			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086252.D	1		04/11/25 16:15	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25
Project:	CTO WE13			Date Received:	04/10/25
Client Sample ID:	TT-073-IDWGW-20250409			SDG No.:	Q1774
Lab Sample ID:	Q1774-02			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086252.D	1		04/11/25 16:15	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.0		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	16700	7.818			
540-36-3	1,4-Difluorobenzene	98000	9.1			
3114-55-4	Chlorobenzene-d5	84100	11.865			

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\VN041125\
 Data File : VN086252.D
 Acq On : 11 Apr 2025 16:15
 Operator : JC\MD
 Sample : Q1774-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-073-IDWGW-20250409

Quant Time: Apr 12 01:50:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

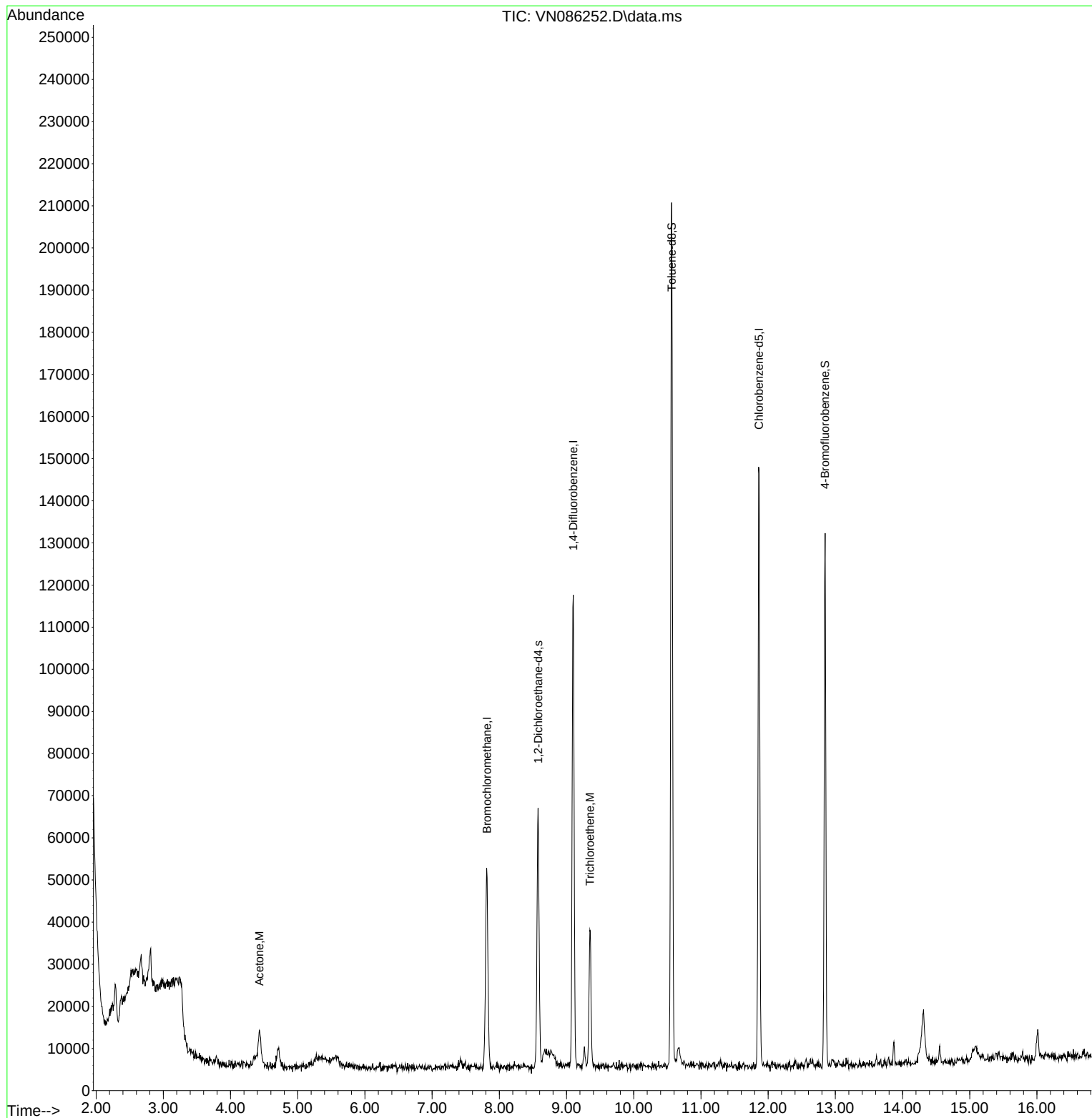
Internal Standards						
1) Bromochloromethane	7.818	128	16665	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	98006	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	84075	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	49324	30.345	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.133%
60) 4-Bromofluorobenzene	12.847	95	48470	28.956	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.533%
63) Toluene-d8	10.565	98	142745	30.074	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.233%
Target Compounds						
15) Acetone	4.430	58	5740	29.925	ug/l	82
37) Trichloroethene	9.347	130	11784	8.744	ug/l	100

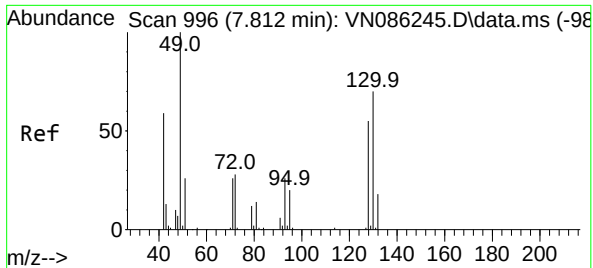
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086252.D
Acq On : 11 Apr 2025 16:15
Operator : JC\MD
Sample : Q1774-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-073-IDWGW-20250409

Quant Time: Apr 12 01:50:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

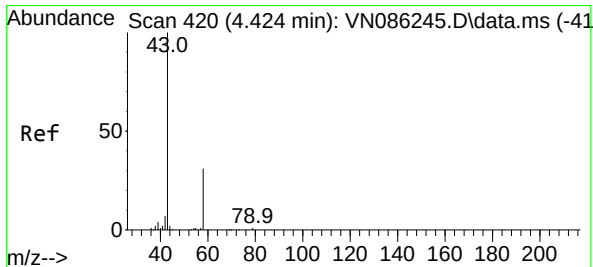
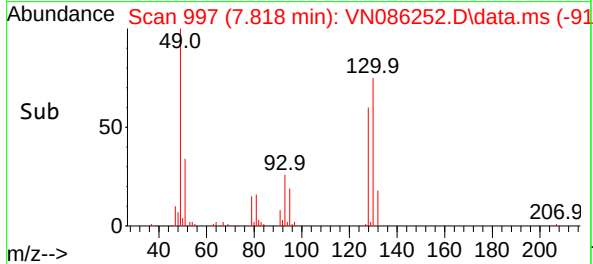
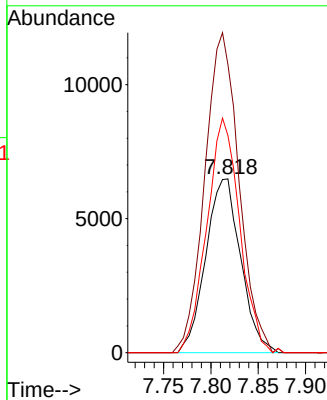
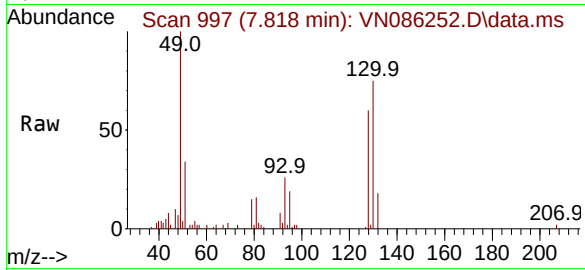




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086252.D
Acq: 11 Apr 2025 16:15

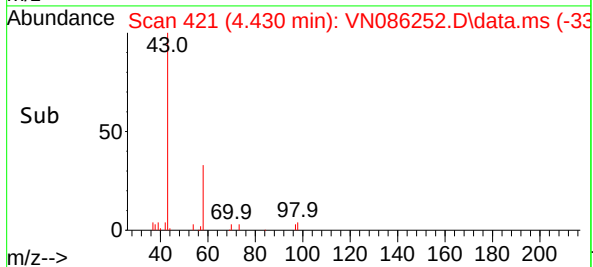
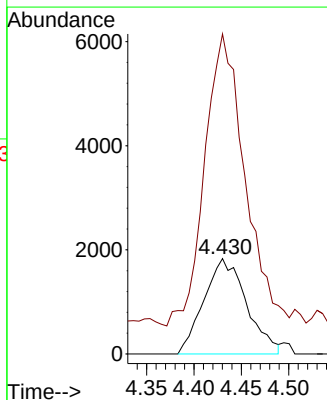
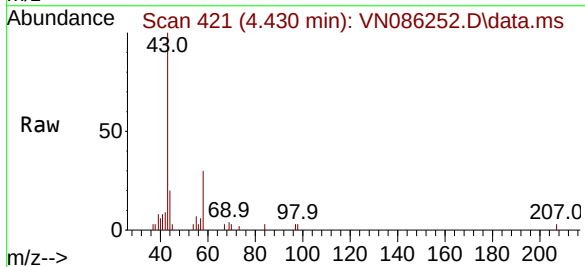
Instrument :
MSVOA_N
ClientSampleId :
TT-073-IDWGW-20250409

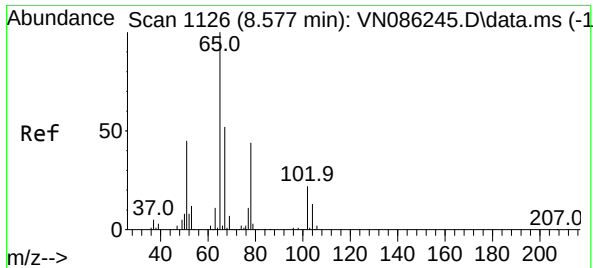
Tgt Ion	Ratio	Lower	Upper
128	100		
49	179.9	0.0	452.5
130	126.8	0.0	315.0



#15
Acetone
Concen: 29.925 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086252.D
Acq: 11 Apr 2025 16:15

Tgt Ion	Ratio	Lower	Upper
58	100		
43	289.9	261.8	392.8





#27

1,2-Dichloroethane-d4

Concen: 30.345 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

Instrument :

MSVOA_N

ClientSampleId :

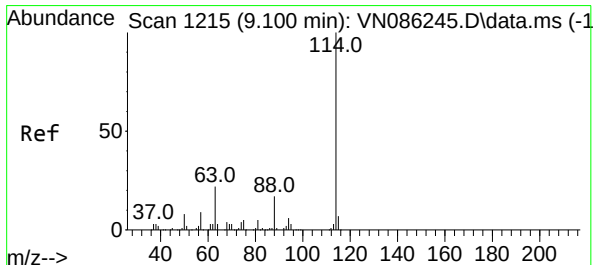
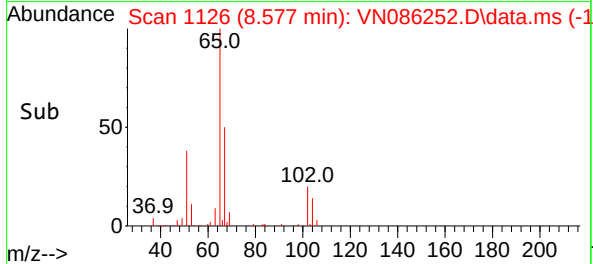
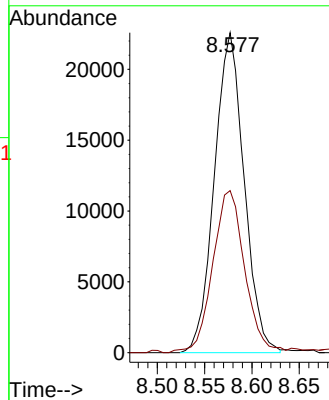
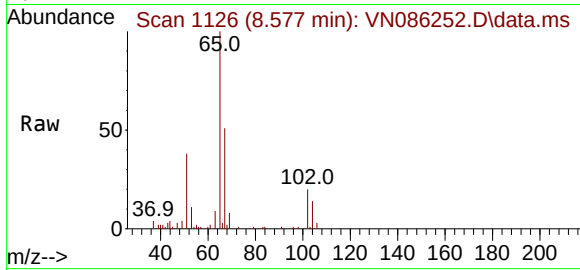
TT-073-IDWGW-20250409

Tgt Ion: 65 Resp: 49324

Ion Ratio Lower Upper

65 100

67 53.9 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086252.D

Acq: 11 Apr 2025 16:15

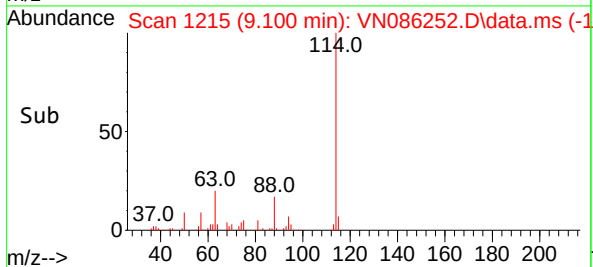
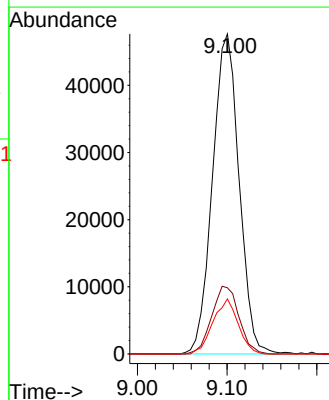
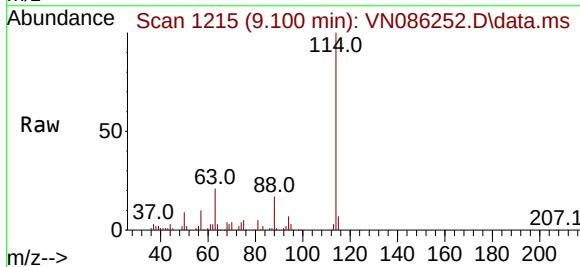
Tgt Ion: 114 Resp: 98006

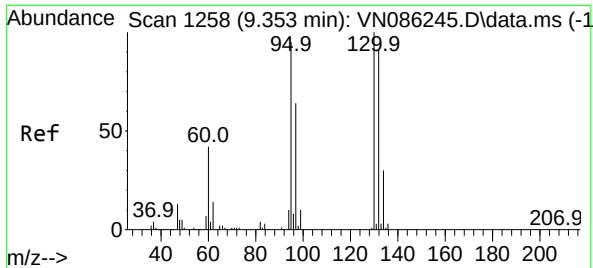
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.3 13.4 20.2

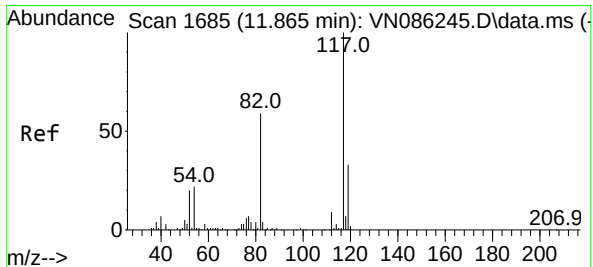
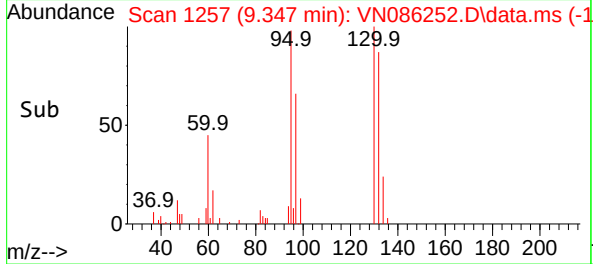
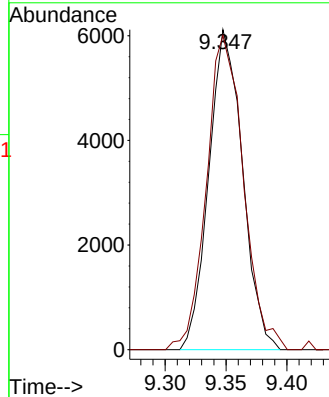
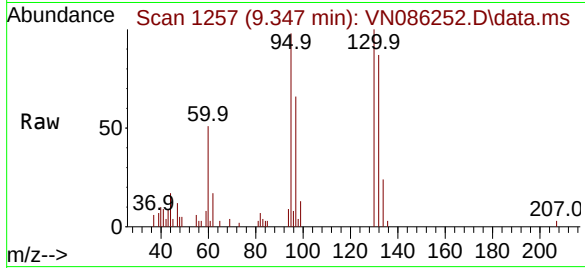




#37
Trichloroethene
Concen: 8.744 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086252.D
Acq: 11 Apr 2025 16:15

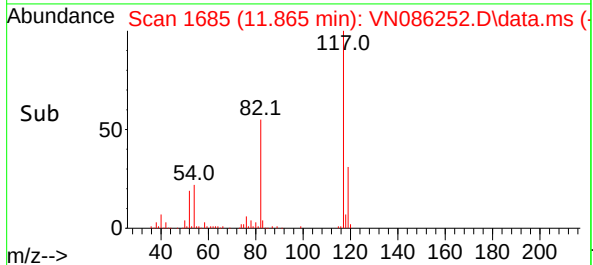
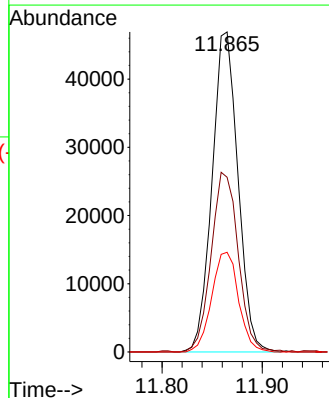
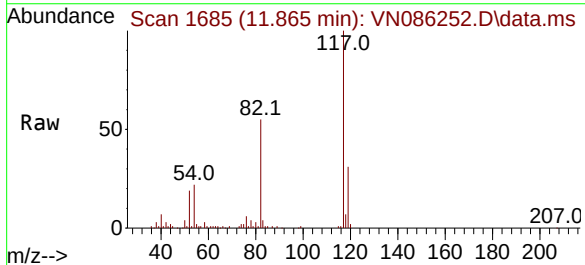
Instrument :
MSVOA_N
ClientSampleId :
TT-073-IDWGW-20250409

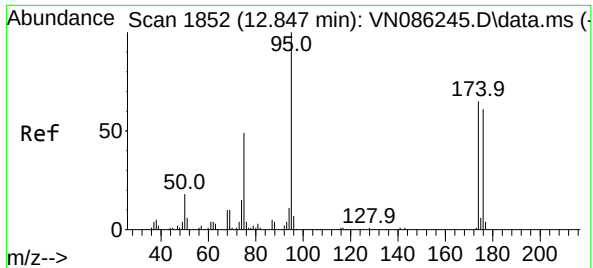
Tgt Ion:130 Resp: 11784
Ion Ratio Lower Upper
130 100
95 95.4 76.4 114.6



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086252.D
Acq: 11 Apr 2025 16:15

Tgt Ion:117 Resp: 84075
Ion Ratio Lower Upper
117 100
82 58.8 47.3 70.9
119 32.3 25.9 38.9

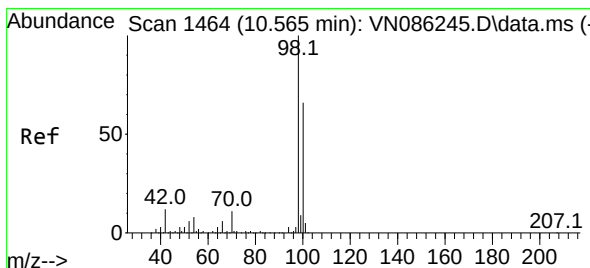
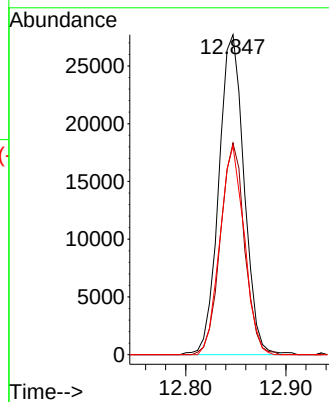
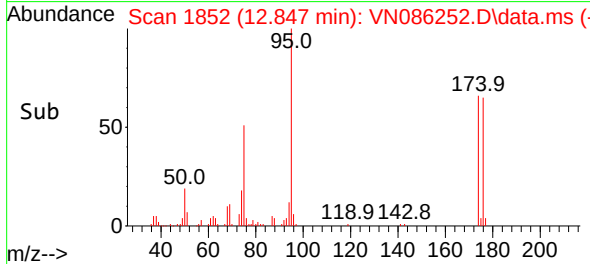
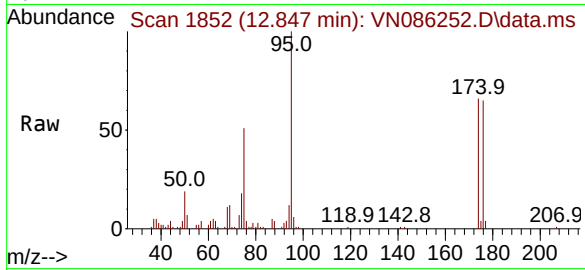




#60
4-Bromofluorobenzene
Concen: 28.956 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086252.D
Acq: 11 Apr 2025 16:15

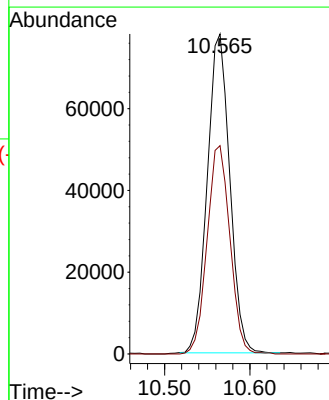
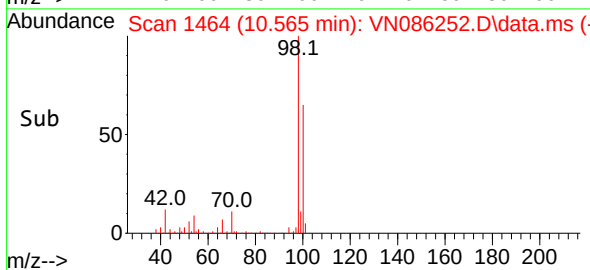
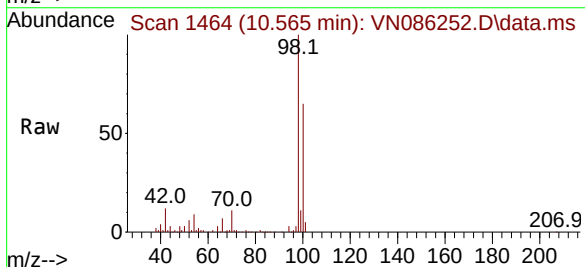
Instrument :
MSVOA_N
ClientSampleId :
TT-073-IDWGW-20250409

Tgt Ion: 95 Resp: 48470
Ion Ratio Lower Upper
95 100
174 63.3 52.7 79.1
176 62.7 49.8 74.8



#63
Toluene-d8
Concen: 30.074 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086252.D
Acq: 11 Apr 2025 16:15

Tgt Ion: 98 Resp: 142745
Ion Ratio Lower Upper
98 100
100 66.4 52.3 78.5



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/09/25
Project:	CTO WE13	Date Received:	04/10/25
Client Sample ID:	TT-074-IDWGW-20250409	SDG No.:	Q1774
Lab Sample ID:	Q1774-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086253.D	1		04/11/25 16:39	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	34.2		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	7.40		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25	
Project:	CTO WE13			Date Received:	04/10/25	
Client Sample ID:	TT-074-IDWGW-20250409			SDG No.:	Q1774	
Lab Sample ID:	Q1774-03			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086253.D	1		04/11/25 16:39	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25
Project:	CTO WE13			Date Received:	04/10/25
Client Sample ID:	TT-074-IDWGW-20250409			SDG No.:	Q1774
Lab Sample ID:	Q1774-03			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086253.D	1		04/11/25 16:39	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.6		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	31.0		91 - 112	103%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.6		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	19800	7.818			
540-36-3	1,4-Difluorobenzene	120000	9.094			
3114-55-4	Chlorobenzene-d5	103000	11.865			

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\VN041125\
 Data File : VN086253.D
 Acq On : 11 Apr 2025 16:39
 Operator : JC\MD
 Sample : Q1774-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-074-IDWGW-20250409

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:51:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	19774	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	120171	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	102960	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	58937	30.558	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	101.867%	
60) 4-Bromofluorobenzene	12.847	95	58540	28.558	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.200%	
63) Toluene-d8	10.565	98	179971	30.962	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	103.200%	
Target Compounds						
15) Acetone	4.436	58	7787m	34.213	ug/l	Qvalue
37) Trichloroethene	9.353	130	12262	7.420	ug/l	96

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

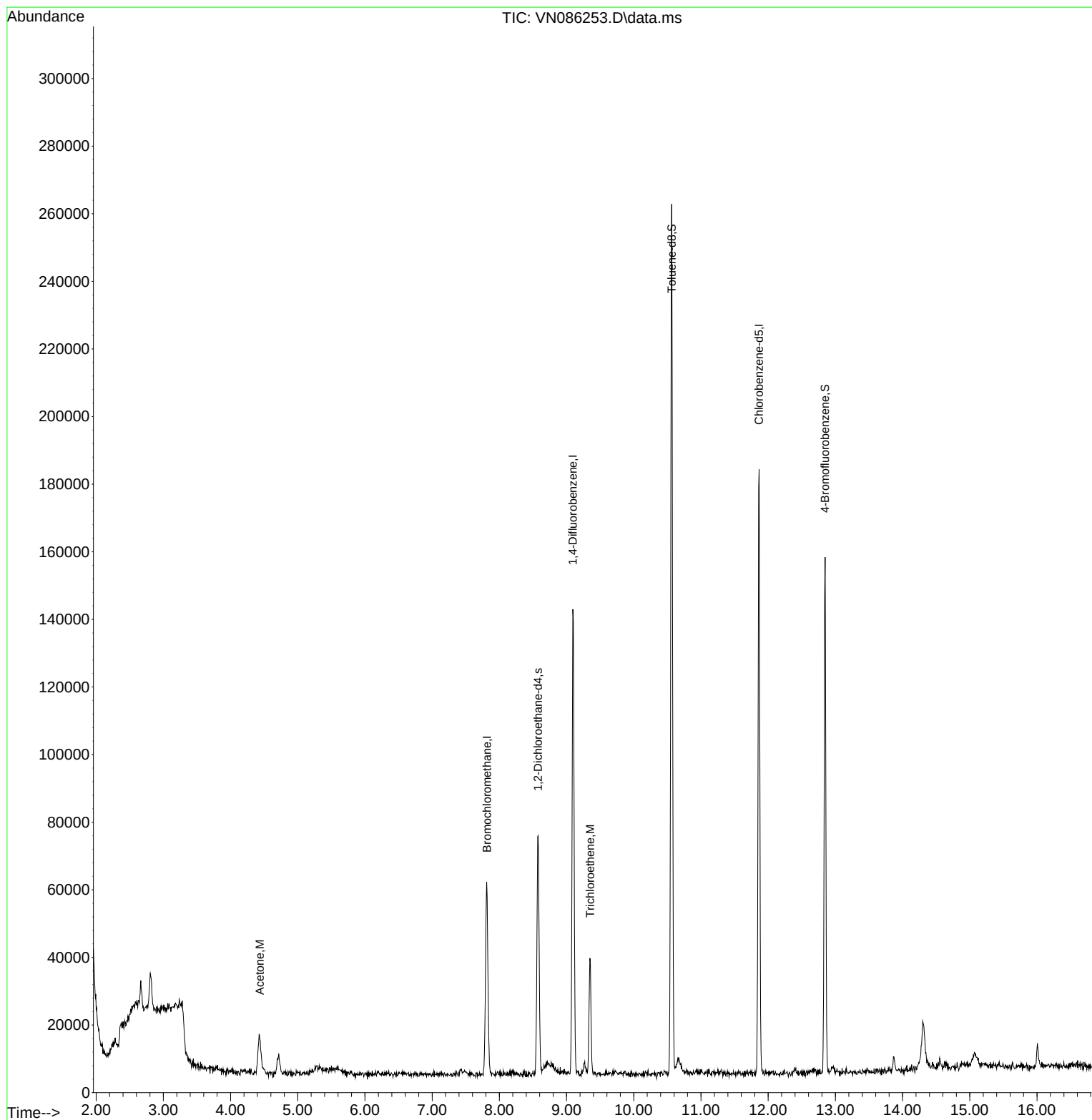
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Data File : VN086253.D
Acq On : 11 Apr 2025 16:39
Operator : JC\MD
Sample : Q1774-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

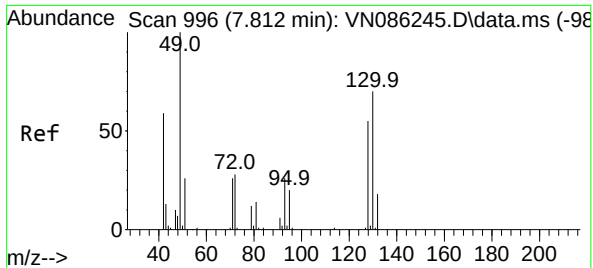
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

Quant Time: Apr 12 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

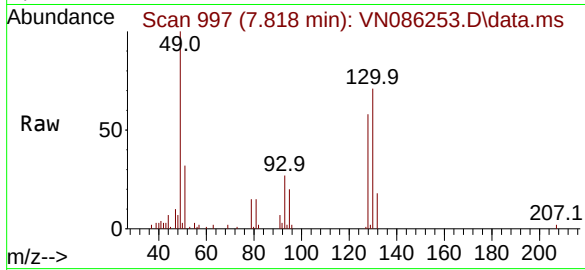
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

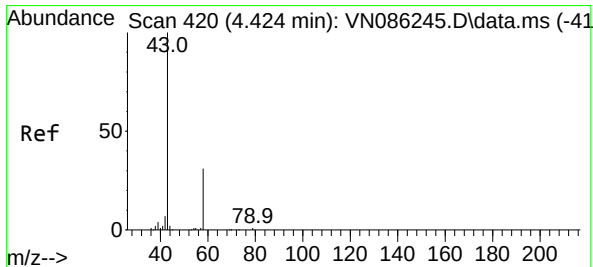
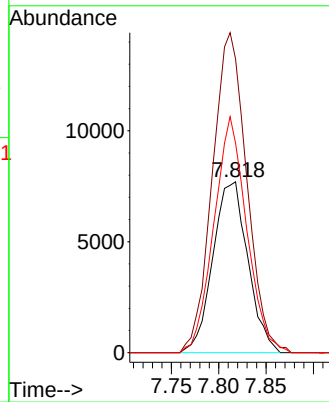
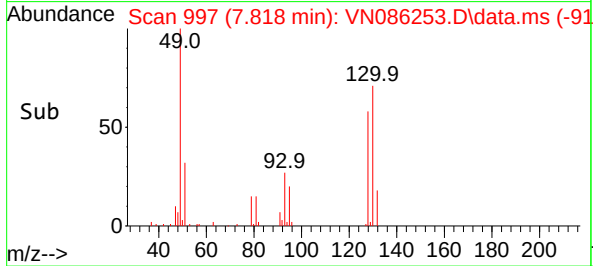
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409



Tgt Ion:128 Resp: 19774
Ion Ratio Lower Upper
128 100
49 184.1 0.0 452.5
130 129.7 0.0 315.0

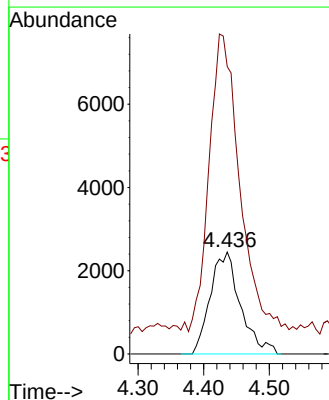
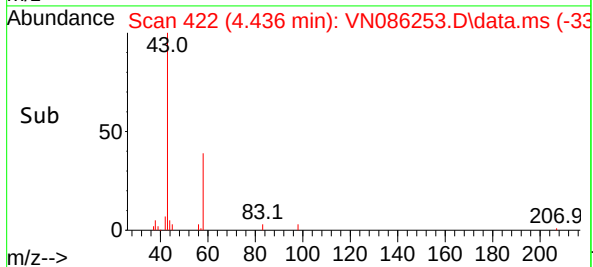
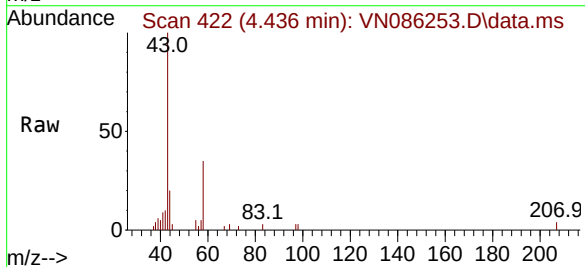
Manual Integrations
APPROVED

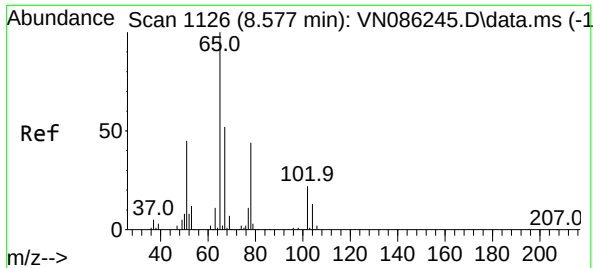
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#15
Acetone
Concen: 34.213 ug/l m
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

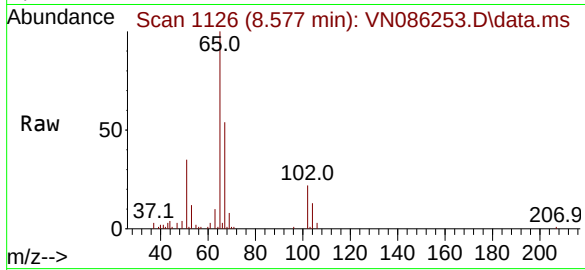
Tgt Ion: 58 Resp: 7787
Ion Ratio Lower Upper
58 100
43 282.1 261.8 392.8





#27
1,2-Dichloroethane-d4
Concen: 30.558 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

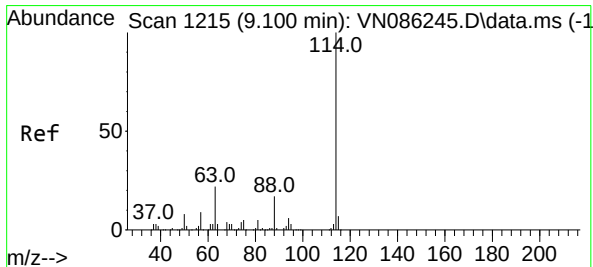
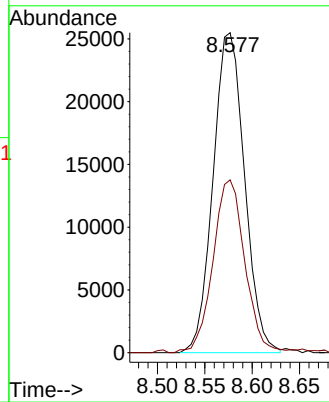
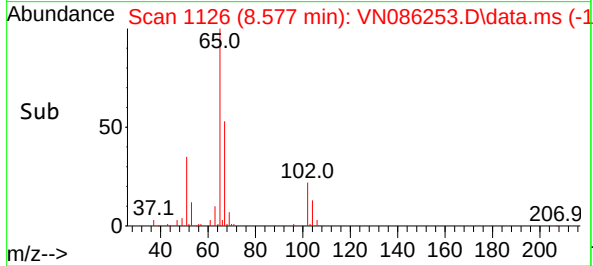
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409



Tgt Ion: 65 Resp: 5893
Ion Ratio Lower Upper
65 100
67 53.6 43.4 65.2

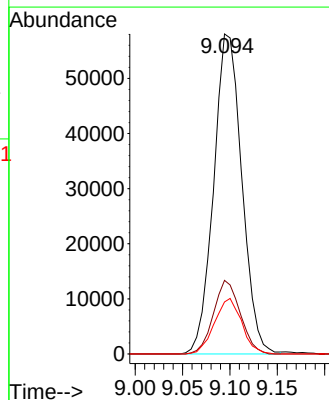
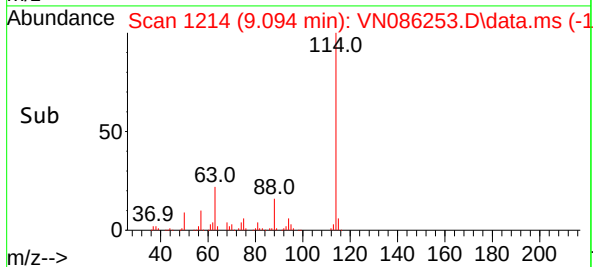
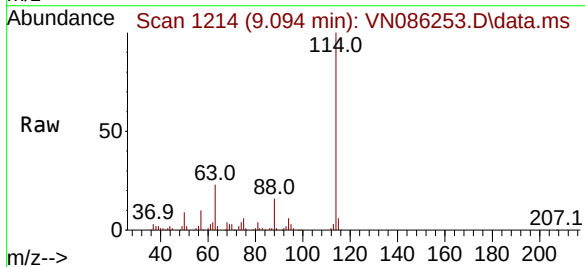
Manual Integrations
APPROVED

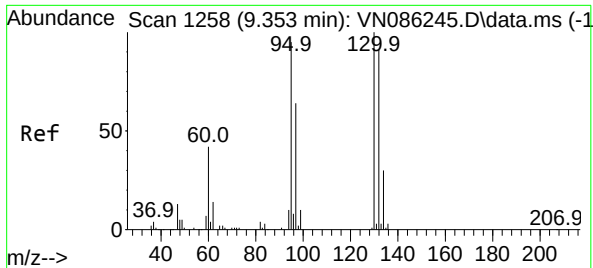
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

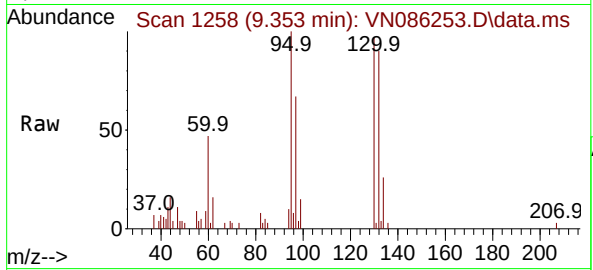
Tgt Ion:114 Resp: 120171
Ion Ratio Lower Upper
114 100
63 21.8 17.8 26.6
88 16.8 13.4 20.2





#37
Trichloroethene
Concen: 7.420 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

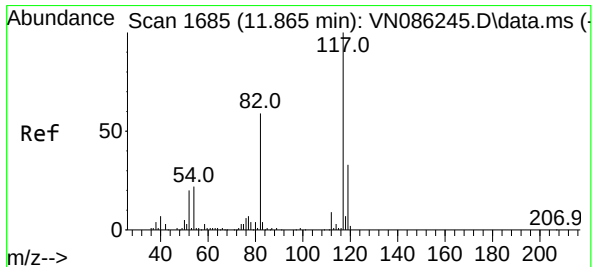
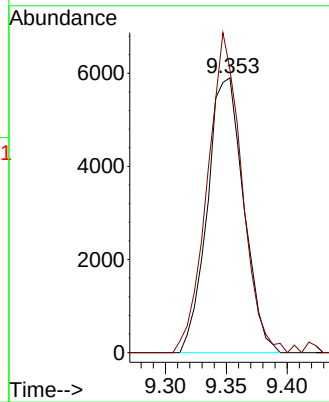
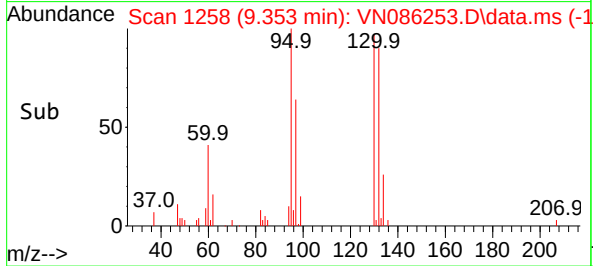
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409



Tgt Ion:130 Resp: 1226
Ion Ratio Lower Upper
130 100
95 99.6 76.4 114.6

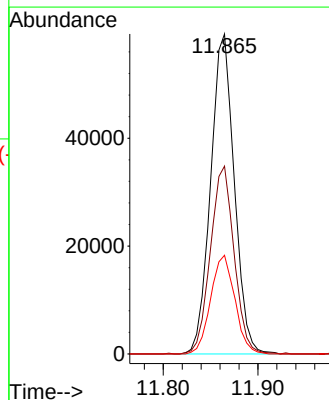
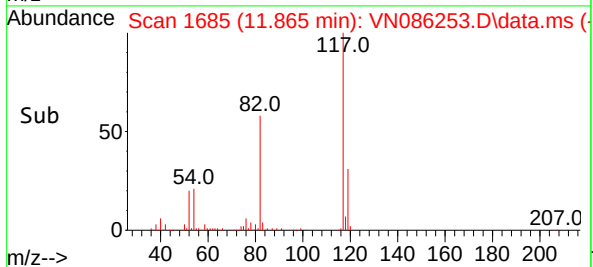
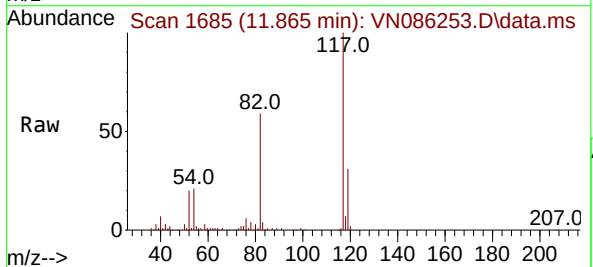
Manual Integrations
APPROVED

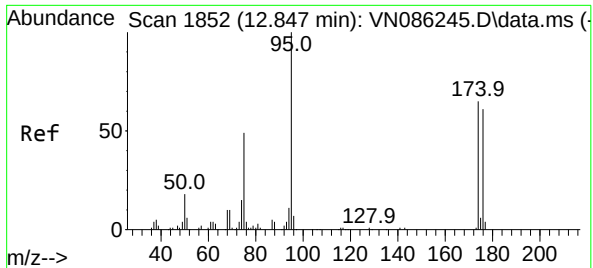
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

Tgt Ion:117 Resp: 102960
Ion Ratio Lower Upper
117 100
82 59.0 47.3 70.9
119 31.6 25.9 38.9





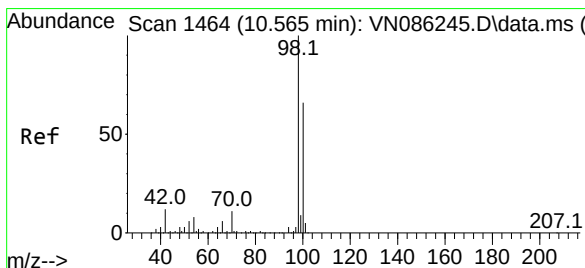
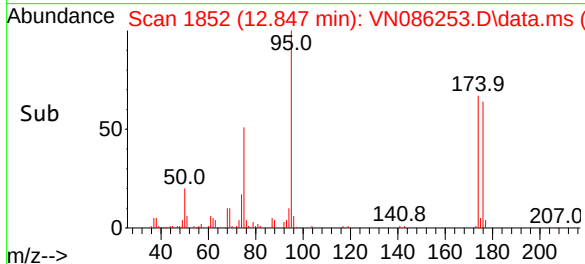
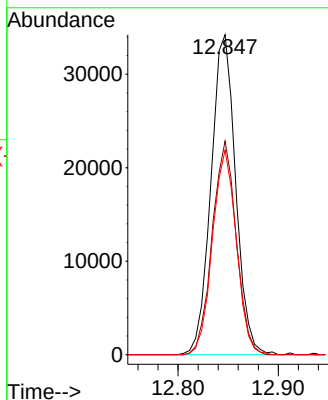
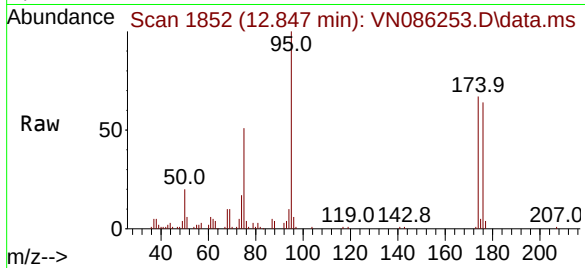
#60
4-Bromofluorobenzene
Concen: 28.558 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

Tgt Ion: 95 Resp: 58540
Ion Ratio Lower Upper
95 100
174 64.8 52.7 79.1
176 61.9 49.8 74.8

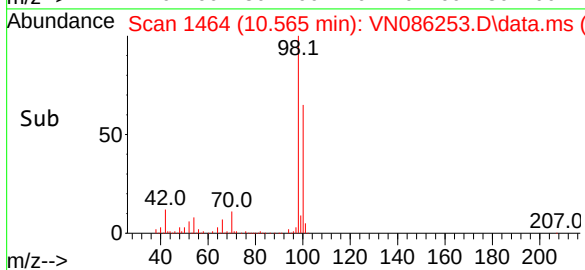
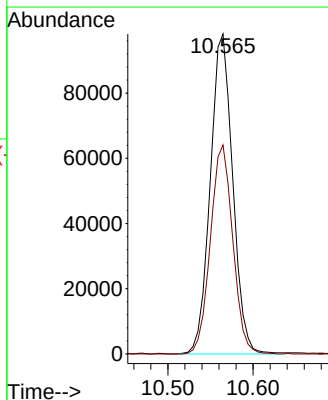
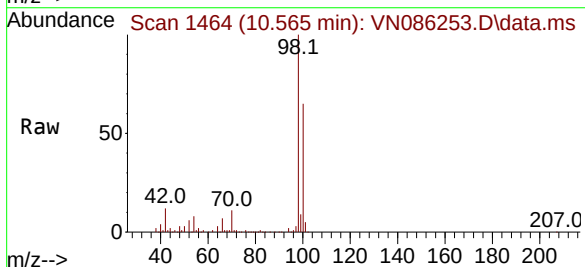
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#63
Toluene-d8
Concen: 30.962 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 98 Resp: 179971
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	04/09/25	
Project:	CTO WE13			Date Received:	04/10/25	
Client Sample ID:	TT-075-IDWGW-20250409			SDG No.:	Q1774	
Lab Sample ID:	Q1774-04			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086254.D	1		04/11/25 17:03	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	21.8	J	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	28.0		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/09/25
Project:	CTO WE13	Date Received:	04/10/25
Client Sample ID:	TT-075-IDWGW-20250409	SDG No.:	Q1774
Lab Sample ID:	Q1774-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086254.D	1		04/11/25 17:03	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.55	J	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/09/25
Project:	CTO WE13	Date Received:	04/10/25
Client Sample ID:	TT-075-IDWGW-20250409	SDG No.:	Q1774
Lab Sample ID:	Q1774-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086254.D	1		04/11/25 17:03	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.2		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	31.4		91 - 112	105%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.6		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29600	7.806			
540-36-3	1,4-Difluorobenzene	180000	9.1			
3114-55-4	Chlorobenzene-d5	151000	11.865			

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\VN041125\
 Data File : VN086254.D
 Acq On : 11 Apr 2025 17:03
 Operator : JC\MD
 Sample : Q1774-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-075-IDWGW-20250409

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:51:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	29637	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	180090	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151244	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	87305	30.202	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.667%	
60) 4-Bromofluorobenzene	12.847	95	86127	28.602	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 95.333%	
63) Toluene-d8	10.565	98	268466	31.442	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.800%	
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.371	101	1764m	0.844	ug/l	
15) Acetone	4.436	58	7424m	21.763	ug/l	
37) Trichloroethene	9.347	130	69371	28.013	ug/l	92
50) 1,1,2-Trichloroethane	11.012	97	1273	0.550	ug/l #	83

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

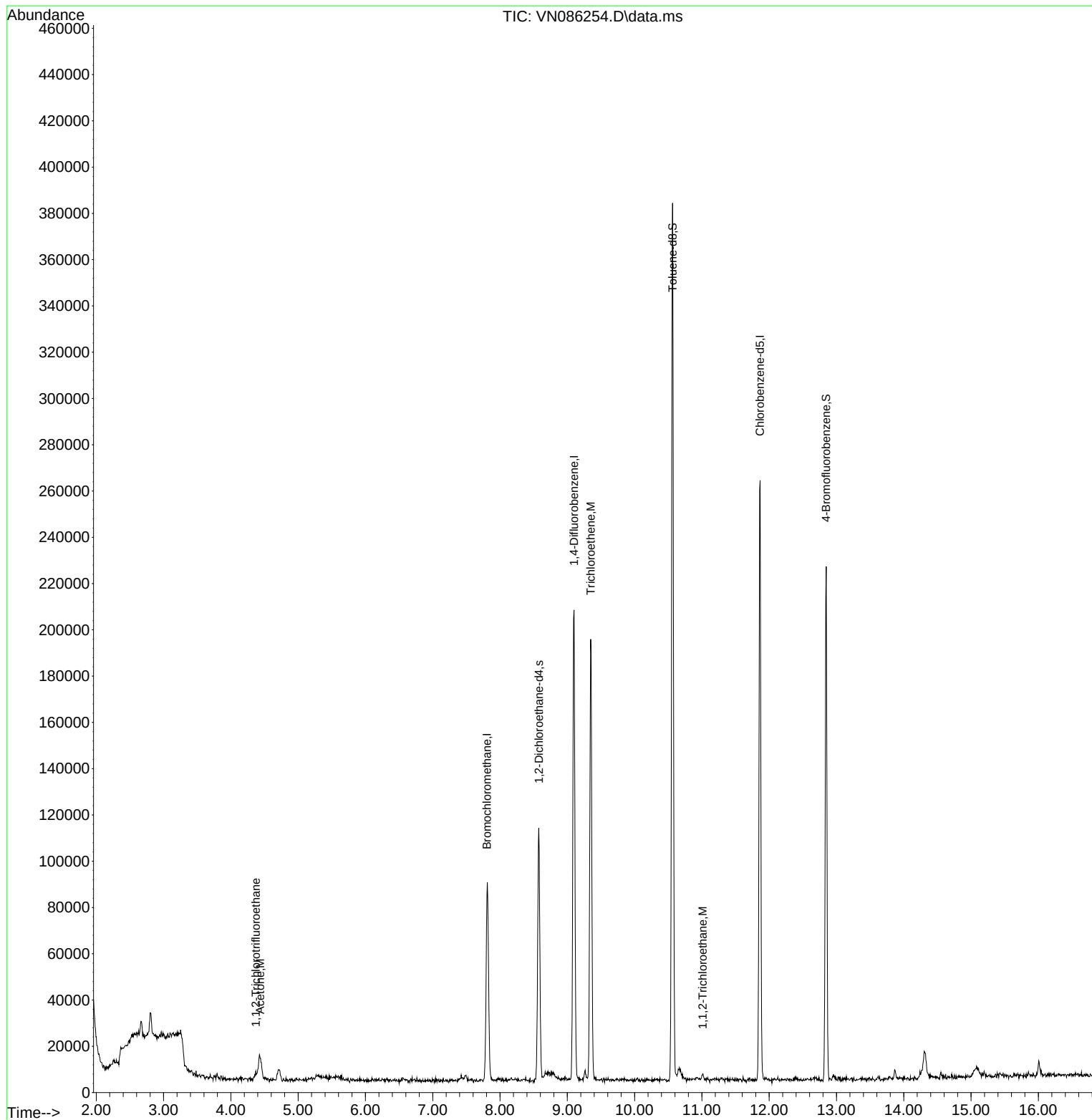
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086254.D
Acq On : 11 Apr 2025 17:03
Operator : JC\MD
Sample : Q1774-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

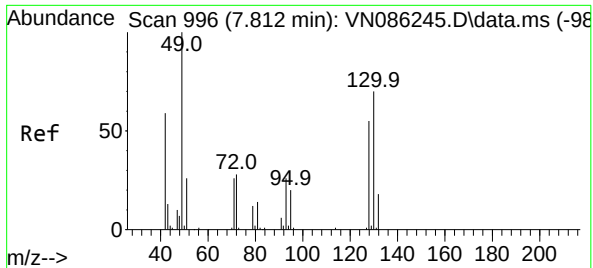
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

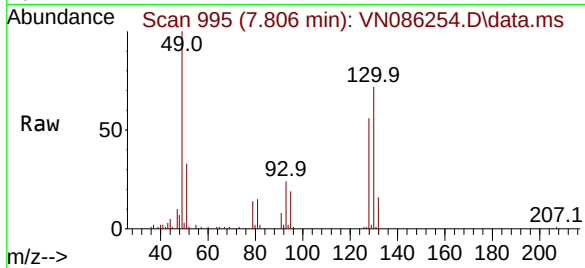
Quant Time: Apr 12 01:51:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

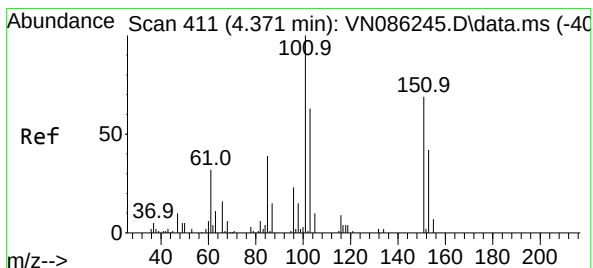
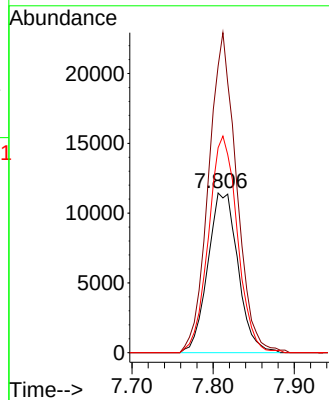
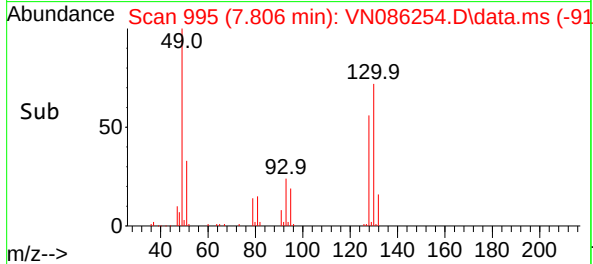
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409



Tgt Ion:128 Resp: 2963
Ion Ratio Lower Upper
128 100
49 185.0 0.0 452.5
130 129.5 0.0 315.0

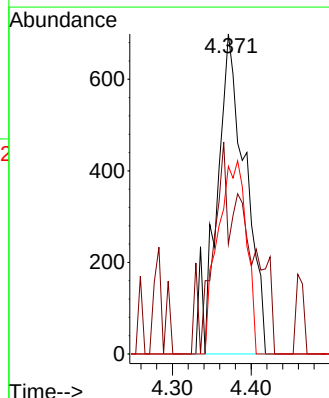
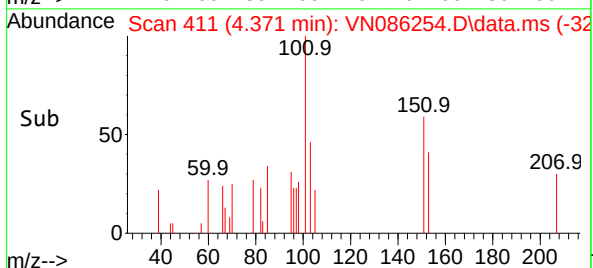
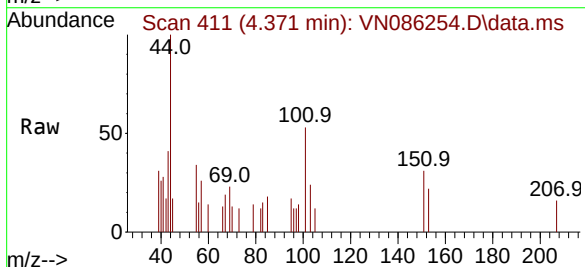
Manual Integrations
APPROVED

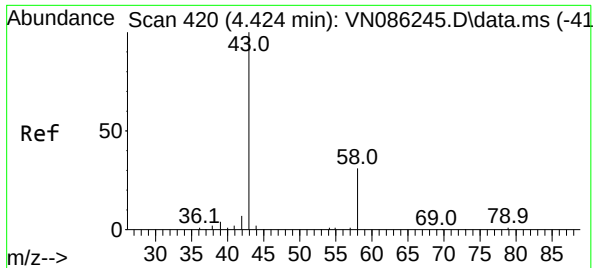
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.844 ug/l m
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion:101 Resp: 1764
Ion Ratio Lower Upper
101 100
85 32.3 0.0 93.0
151 0.0 0.0 138.6





#15

Acetone

Concen: 21.763 ug/l m

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086254.D

Acq: 11 Apr 2025 17:03

Instrument :

MSVOA_N

ClientSampleId :

TT-075-IDWGW-20250409

Tgt Ion: 58 Resp: 7424

Ion Ratio Lower Upper

58 100

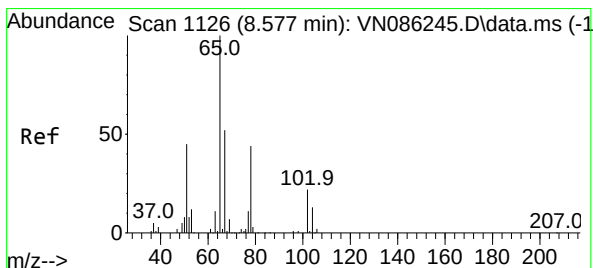
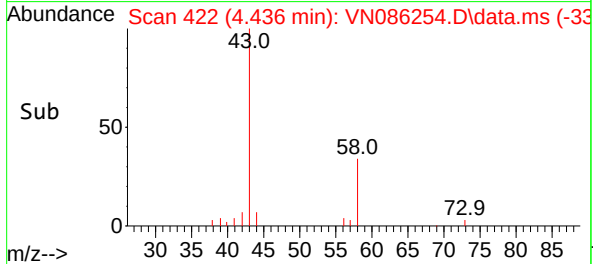
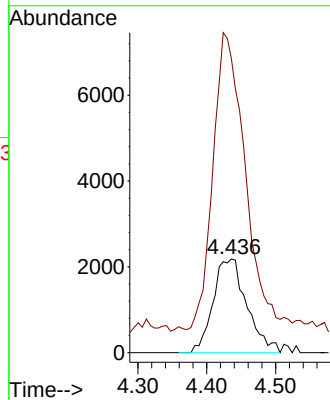
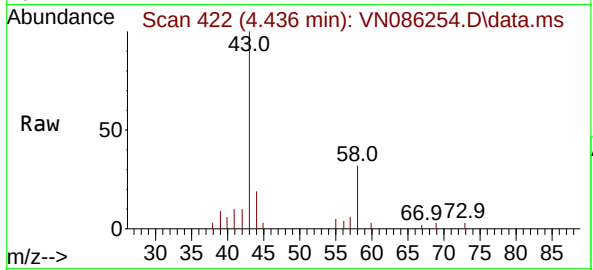
43 313.7 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#27

1,2-Dichloroethane-d4

Concen: 30.202 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086254.D

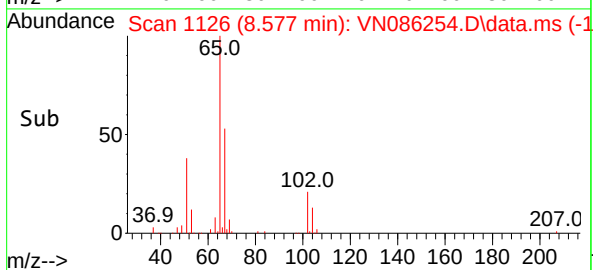
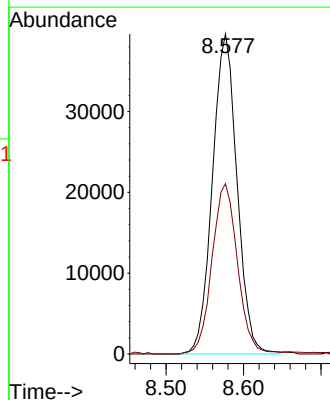
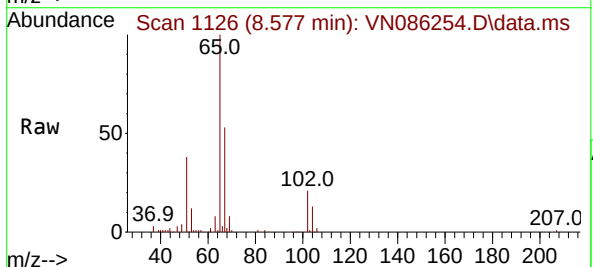
Acq: 11 Apr 2025 17:03

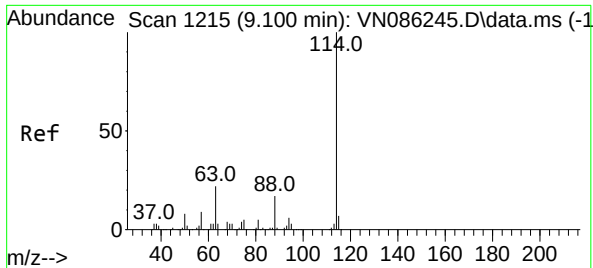
Tgt Ion: 65 Resp: 87305

Ion Ratio Lower Upper

65 100

67 55.2 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086254.D

Acq: 11 Apr 2025 17:03

Instrument :

MSVOA_N

ClientSampleId :

TT-075-IDWGW-20250409

Tgt Ion:114 Resp: 180090

Ion Ratio Lower Upper

114 100

63 21.6 17.8 26.6

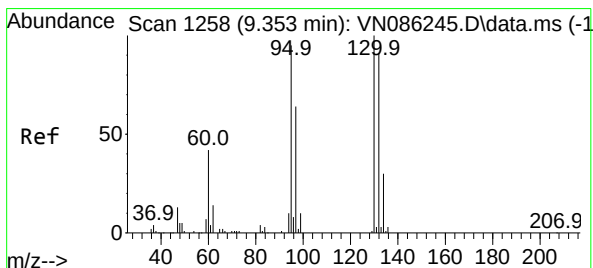
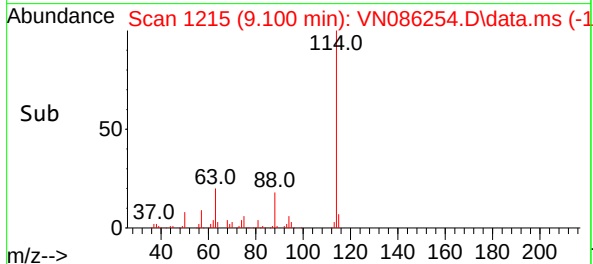
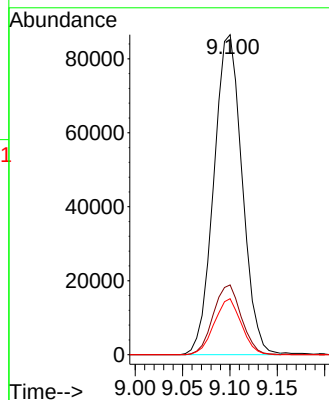
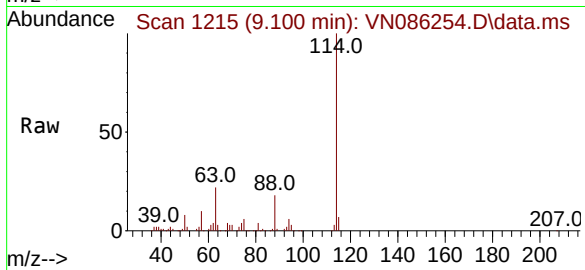
88 16.7 13.4 20.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#37

Trichloroethene

Concen: 28.013 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN086254.D

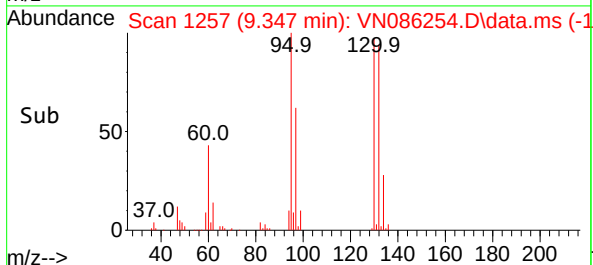
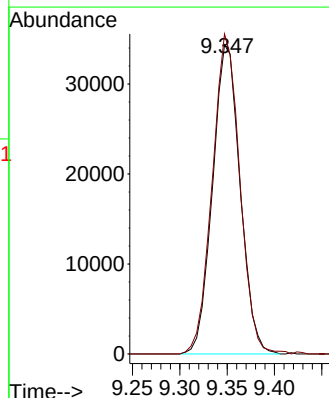
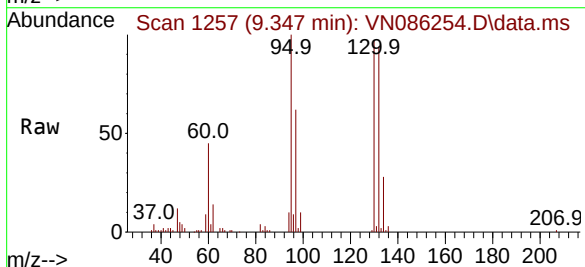
Acq: 11 Apr 2025 17:03

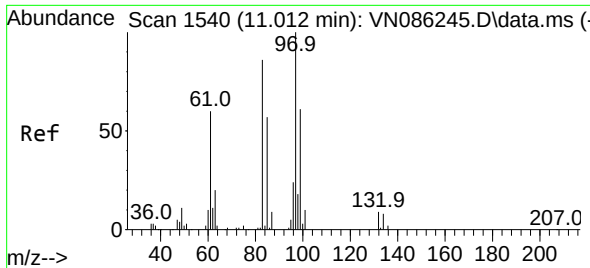
Tgt Ion:130 Resp: 69371

Ion Ratio Lower Upper

130 100

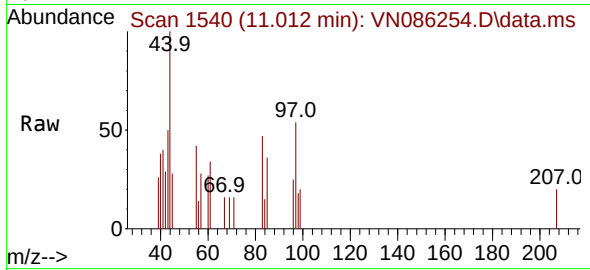
95 103.5 76.4 114.6





#50
1,1,2-Trichloroethane
Concen: 0.550 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

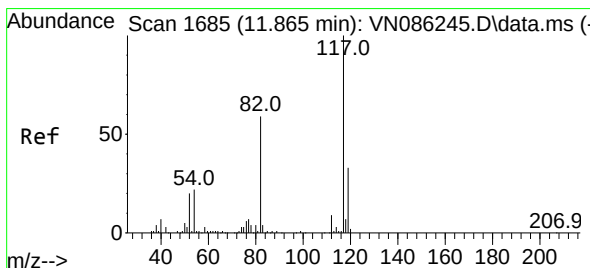
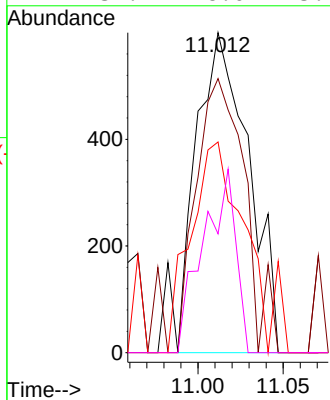
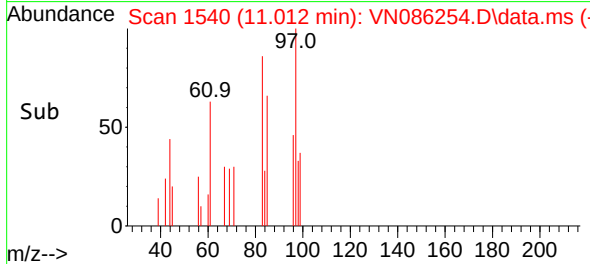
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409



Tgt Ion: 97 Resp: 127
Ion Ratio Lower Upper
97 100
83 85.7 68.6 103.0
85 37.3 45.9 68.9
99 37.2 48.6 73.0#

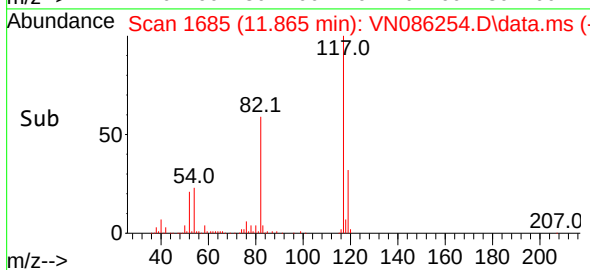
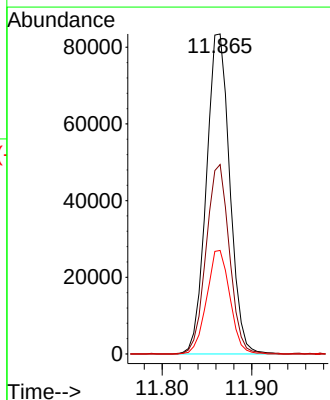
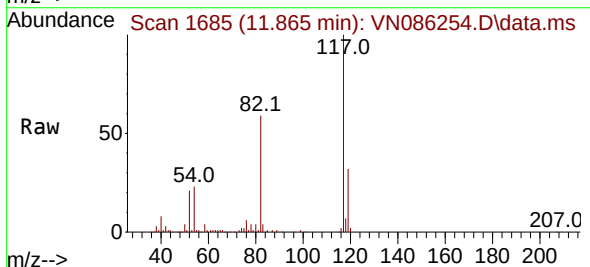
Manual Integrations
APPROVED

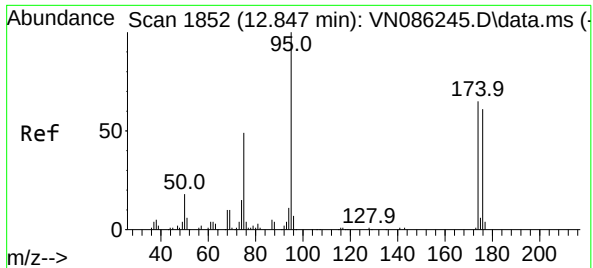
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion:117 Resp: 151244
Ion Ratio Lower Upper
117 100
82 59.0 47.3 70.9
119 32.2 25.9 38.9





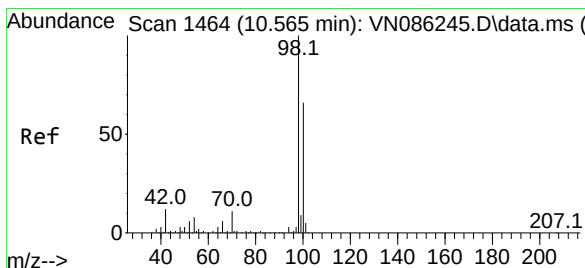
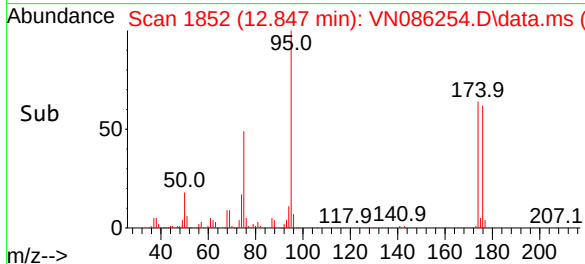
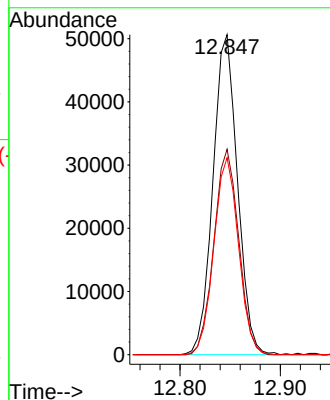
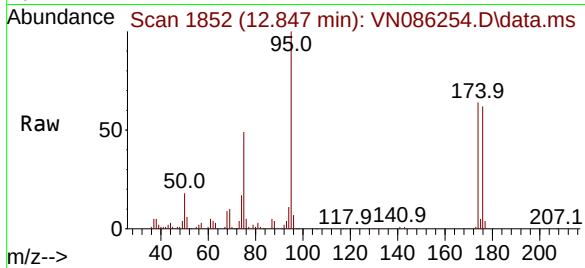
#60
4-Bromofluorobenzene
Concen: 28.602 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Instrument : MSVOA_N
ClientSampleId : TT-075-IDWGW-20250409

Tgt Ion: 95 Resp: 8612
Ion Ratio Lower Upper
95 100
174 64.8 52.7 79.1
176 61.8 49.8 74.8

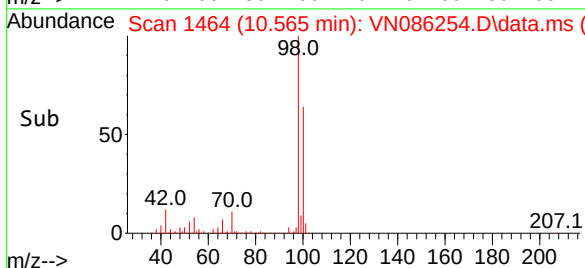
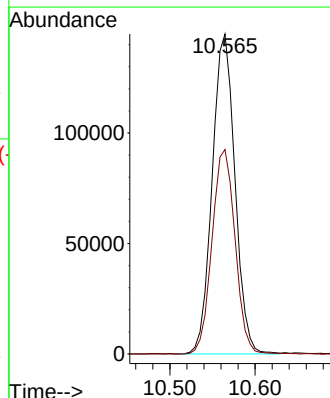
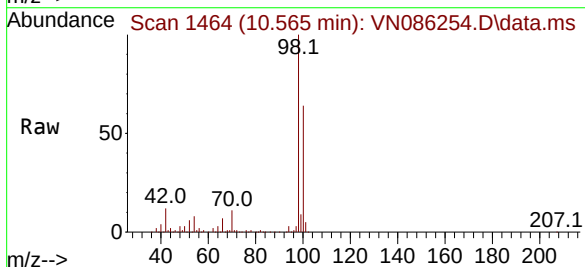
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#63
Toluene-d8
Concen: 31.442 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion: 98 Resp: 268466
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5





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: TETR06
 Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774
 Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Dichlorodifluoromethane	2.460	2.758	2.325	2.072		2.404	11.9
Chloromethane	3.236	3.617	3.094	3.342		3.322	6.7
Vinyl Chloride	3.116	3.535	3.007	3.000		3.164	8
Bromomethane	1.382	1.638	1.475	1.819		1.578	12.2
Chloroethane	1.887	2.187	1.860	2.059		1.998	7.7
Trichlorofluoromethane	3.329	3.883	3.207	3.311		3.433	8.9
1,1,2-Trichlorotrifluoroethane	2.040	2.381	1.998	2.048		2.117	8.4
1,1-Dichloroethene	2.111	2.464	2.145	2.418		2.284	8
Acrolein	0.387	0.329	0.270	0.481		0.367	24.6
Acrylonitrile	1.263	1.506	1.282	1.397		1.362	8.3
Acetone	0.300	0.389	0.329	0.363		0.345	11.3
Carbon Disulfide	6.053	6.710	6.274	7.165		6.550	7.5
Methyl tert-Butyl Ether	7.709	9.105	7.691	8.471		8.244	8.2
Methyl Acetate	2.942	3.736	2.970	3.256		3.226	11.4
Methylene Chloride	2.407	2.766	2.387	2.858		2.605	9.3
trans-1,2-Dichloroethene	2.231	2.557	2.221	2.616		2.406	8.7
1,1-Dichloroethane	4.380	5.082	4.345	4.460		4.567	7.6
Cyclohexane	0.686	0.784	0.660	0.690		0.705	7.7
2-Butanone	0.278	0.336	0.290	0.287		0.298	8.8
Carbon Tetrachloride	0.484	0.562	0.472	0.458		0.494	9.4
2,2-Dichloropropane	0.651	0.733	0.638	0.623		0.662	7.4
cis-1,2-Dichloroethene	2.674	3.101	2.690	3.000		2.866	7.6
Chloroform	4.120	4.832	4.093	4.374		4.355	7.9
1,1,1-Trichloroethane	0.587	0.679	0.586	0.621		0.618	7.1
Methylcyclohexane	0.656	0.714	0.616	0.650		0.659	6.2
1,1-Dichloropropene	0.527	0.592	0.514	0.516		0.537	6.9
Benzene	1.669	1.880	1.633	1.657		1.710	6.7
1,2-Dichloroethane	0.521	0.591	0.512	0.516		0.535	7
Trichloroethene	0.403	0.463	0.396	0.387		0.413	8.3
1,2-Dichloropropane	0.420	0.475	0.405	0.403		0.425	7.9

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774
 Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Dibromomethane	0.261	0.301	0.260	0.277		0.275	6.9
Bromodichloromethane	0.557	0.636	0.565	0.603		0.590	6.2
4-Methyl-2-Pentanone	0.627	0.758	0.671	0.667		0.681	8.1
Toluene	1.908	2.219	1.941	1.981		2.012	7
t-1,3-Dichloropropene	0.650	0.745	0.633	0.641		0.667	7.8
cis-1,3-Dichloropropene	0.696	0.782	0.677	0.670		0.706	7.3
1,1,2-Trichloroethane	0.364	0.420	0.372	0.385		0.385	6.4
1,3-Dichloropropane	0.664	0.764	0.648	0.671		0.687	7.6
2-Hexanone	0.464	0.571	0.497	0.496		0.507	8.9
Dibromochloromethane	0.407	0.469	0.404	0.406		0.422	7.5
1,2-Dibromoethane	0.371	0.429	0.370	0.386		0.389	7.1
Tetrachloroethene	0.432	0.501	0.424	0.415		0.443	8.9
Chlorobenzene	1.156	1.357	1.179	1.224		1.229	7.3
1,1,1,2-Tetrachloroethane	0.384	0.455	0.390	0.393		0.406	8.1
Hexachloroethane	0.274	0.319	0.265	0.265		0.281	9.3
Ethyl Benzene	2.099	2.496	2.140	2.192		2.232	8.1
m/p-Xylenes	0.795	0.939	0.789	0.796		0.830	8.8
o-Xylene	0.777	0.921	0.779	0.787		0.816	8.6
Styrene	1.315	1.563	1.293	1.334		1.376	9.1
Bromoform	0.262	0.312	0.264	0.265		0.276	8.7
Isopropylbenzene	1.910	2.274	1.917	1.947		2.012	8.7
1,1,1,2,2-Tetrachloroethane	0.500	0.608	0.558	0.626		0.573	9.9
1,2,3-Trichloropropane	0.550	0.662	0.566	0.606		0.596	8.4
Bromobenzene	0.422	0.505	0.426	0.431		0.446	8.8
n-propylbenzene	2.311	2.708	2.229	2.256		2.376	9.4
2-Chlorotoluene	1.403	1.687	1.412	1.472		1.494	8.9
1,3,5-Trimethylbenzene	1.586	1.865	1.574	1.587		1.653	8.5
4-Chlorotoluene	1.420	1.694	1.383	1.470		1.492	9.4
tert-butylbenzene	1.332	1.584	1.349	1.457		1.430	8.1
1,2,4-Trimethylbenzene	1.607	1.912	1.600	1.586		1.676	9.4

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774
 Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
sec-Butylbenzene	1.924	2.234	1.909	1.915		1.995	8
p-Isopropyltoluene	1.621	1.891	1.584	1.562		1.664	9.2
1,3-Dichlorobenzene	0.785	0.958	0.773	0.798		0.829	10.5
1,4-Dichlorobenzene	0.785	0.950	0.777	0.813		0.831	9.7
n-Butylbenzene	1.490	1.679	1.420	1.416		1.502	8.2
1,2-Dichlorobenzene	0.761	0.943	0.778	0.791		0.818	10.3
1,2-Dibromo-3-Chloropropane	0.116	0.148	0.128	0.129		0.130	10.3
1,2,4-Trichlorobenzene	0.371	0.439	0.402	0.380		0.398	7.5
Hexachlorobutadiene	0.151	0.176	0.167	0.194		0.172	10.4
Naphthalene	1.396	1.756	1.548	1.578		1.569	9.4
1,2,3-Trichlorobenzene	0.371	0.439	0.402	0.380		0.398	7.5
1,2-Dichloroethane-d4	2.882	2.916	2.904	3.003		2.926	1.8
Toluene-d8	1.673	1.674	1.718	1.710		1.694	1.4
4-Bromofluorobenzene	0.600	0.607	0.594	0.589		0.597	1.3
Methyl Iodide	2.474	2.976	2.463	2.589		2.626	9.2
Methyl methacrylate	0.468	0.558	0.471	0.467		0.491	9

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N041125W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Sat Apr 12 01:21:52 2025
 Response Via : Initial Calibration

Calibration Files

5 =VN086246.D 20 =VN086245.D 50 =VN086244.D 100 =VN086242.D

Compound		5	20	50	100	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----					
2) M	Dichlorodifluoro...	2.072	2.325	2.758	2.460	2.404	11.88
3) M	Chloromethane	3.342	3.094	3.617	3.236	3.322	6.66
4) M	Vinyl Chloride	3.000	3.007	3.535	3.116	3.164	7.98
5) M	Bromomethane	1.819	1.475	1.638	1.382	1.578	12.19
6) M	Chloroethane	2.059	1.860	2.187	1.887	1.998	7.69
7) M	Trichlorofluorom...	3.311	3.207	3.883	3.329	3.433	8.89
8) T	Diethyl Ether	1.627	1.476	1.736	1.492	1.583	7.73
9)	1,1,2-Trichlorot...	2.048	1.998	2.381	2.040	2.117	8.38
10) M	1,1-Dichloroethene	2.418	2.145	2.464	2.111	2.284	7.97
11)	Methyl Iodide	2.589	2.463	2.976	2.474	2.626	9.17
12)	Methyl Acetate	3.256	2.970	3.736	2.942	3.226	11.42
13) M	Acrolein	0.481	0.270	0.329	0.387	0.367	24.59
14) M	Acrylonitrile	1.397	1.282	1.506	1.263	1.362	8.27
15) M	Acetone	0.363	0.329	0.389	0.300	0.345	11.27
16) M	Carbon Disulfide	7.165	6.274	6.710	6.053	6.550	7.52
17)	Allyl chloride	4.154	3.712	4.336	3.723	3.981	7.87
18) M	Methylene Chloride	2.858	2.387	2.766	2.407	2.605	9.31
19) M	trans-1,2-Dichlo...	2.616	2.221	2.557	2.231	2.406	8.71
20) T	Diisopropyl ether	8.334	8.092	9.676	8.136	8.560	8.78
21) M	1,1-Dichloroethane	4.460	4.345	5.082	4.380	4.567	7.59
22) M	cis-1,2-Dichloro...	3.000	2.690	3.101	2.674	2.866	7.57
23) M	tert-Butyl Alcohol	0.570	0.545	0.640	0.503	0.564	10.19
24) M	Methyl tert-Buty...	8.471	7.691	9.105	7.709	8.244	8.24
25) M	Chloroform	4.374	4.093	4.832	4.120	4.355	7.87
26)	Cyclohexane	4.272	3.944	4.808	4.066	4.273	8.94
27) s	1,2-Dichloroetha...	3.003	2.904	2.916	2.882	2.926	1.81
28) I	1,4-Difluorobenzene	-----ISTD-----					
29)	1,1-Dichloropropene	0.516	0.514	0.592	0.527	0.537	6.86
30) M	2-Butanone	0.287	0.290	0.336	0.278	0.298	8.77
31)	2,2-Dichloropropane	0.623	0.638	0.733	0.651	0.662	7.41
32) M	1,1,1-Trichloroe...	0.621	0.586	0.679	0.587	0.618	7.08
33) M	Carbon Tetrachlo...	0.458	0.472	0.562	0.484	0.494	9.42
34) M	Benzene	1.657	1.633	1.880	1.669	1.710	6.69
35)	Methacrylonitrile	0.338	0.318	0.366	0.321	0.336	6.49
36) M	1,2-Dichloroethane	0.516	0.512	0.591	0.521	0.535	7.04
37) M	Trichloroethene	0.387	0.396	0.463	0.403	0.413	8.30
38)	Methylcyclohexane	0.650	0.616	0.714	0.656	0.659	6.19
39) M	1,2-Dichloropropane	0.403	0.405	0.475	0.420	0.425	7.91
40)	Dibromomethane	0.277	0.260	0.301	0.261	0.275	6.91
41) M	Bromodichloromet...	0.603	0.565	0.636	0.557	0.590	6.19
42) M	Vinyl Acetate	0.998	1.000	1.092	0.965	1.014	5.40
43)	Ethyl Acetate	0.606	0.589	0.658	0.550	0.601	7.48
44)	Isopropyl Acetate	1.217	1.050	1.182	1.008	1.114	9.07
45) T	1,4-Dioxane	0.009	0.009	0.010	0.008	0.009	9.38
46)	Methyl methacrylate	0.467	0.471	0.558	0.468	0.491	9.04
47)	n-amyl Acetate	0.875	0.824	0.998	0.837	0.883	8.98
48) M	t-1,3-Dichloropr...	0.641	0.633	0.745	0.650	0.667	7.83
49) T	cis-1,3-Dichloro...	0.670	0.677	0.782	0.696	0.706	7.35
50) M	1,1,2-Trichloroe...	0.385	0.372	0.420	0.364	0.385	6.39
51)	Ethyl methacrylate	0.700	0.681	0.798	0.685	0.716	7.71
52)	1,3-Dichloropropane	0.671	0.648	0.764	0.664	0.687	7.61
53) M	Dibromochloromet...	0.406	0.404	0.469	0.407	0.422	7.49
54) M	1,2-Dibromoethane	0.386	0.370	0.429	0.371	0.389	7.12
55) M	2-Chloroethyl vi...	0.318	0.324	0.387	0.054	0.271	54.58
56) M	Bromoform	0.265	0.264	0.312	0.262	0.276	8.72

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N041125W.M

		-----ISTD-----					
57) I	Chlorobenzene-d5						
58) M	4-Methyl-2-Penta...	0.667	0.671	0.758	0.627	0.681	8.14
59) M	2-Hexanone	0.496	0.497	0.571	0.464	0.507	8.88
60) S	4-Bromofluoroben...	0.589	0.594	0.607	0.600	0.597	1.29
61) M	Tetrachloroethene	0.415	0.424	0.501	0.432	0.443	8.88
62) M	Toluene	1.981	1.941	2.219	1.908	2.012	7.01
63) S	Toluene-d8	1.710	1.718	1.674	1.673	1.694	1.39
64) M	Chlorobenzene	1.224	1.179	1.357	1.156	1.229	7.32
65)	1,1,1,2-Tetrachl...	0.393	0.390	0.455	0.384	0.406	8.14
66) M	Ethyl Benzene	2.192	2.140	2.496	2.099	2.232	8.07
67) M	m/p-Xylenes	0.796	0.789	0.939	0.795	0.830	8.78
68) M	o-Xylene	0.787	0.779	0.921	0.777	0.816	8.59
69) M	Styrene	1.334	1.293	1.563	1.315	1.376	9.13
70)	Isopropylbenzene	1.947	1.917	2.274	1.910	2.012	8.72
71) M	1,1,2,2-Tetrachl...	0.626	0.558	0.608	0.500	0.573	9.90
72)	1,2,3-Trichlorop...	0.606	0.566	0.662	0.550	0.596	8.37
73)	Bromobenzene	0.431	0.426	0.505	0.422	0.446	8.82
74)	n-propylbenzene	2.256	2.229	2.708	2.311	2.376	9.42
75)	2-Chlorotoluene	1.472	1.412	1.687	1.403	1.494	8.87
76)	1,3,5-Trimethylb...	1.587	1.574	1.865	1.586	1.653	8.54
77)	t-1,4-Dichloro-2...	0.266	0.261	0.313	0.259	0.275	9.36
78)	4-Chlorotoluene	1.470	1.383	1.694	1.420	1.492	9.36
79)	tert-butylbenzene	1.457	1.349	1.584	1.332	1.430	8.14
80)	1,2,4-Trimethylb...	1.586	1.600	1.912	1.607	1.676	9.40
81)	sec-Butylbenzene	1.915	1.909	2.234	1.924	1.995	7.98
82)	p-Isopropyltoluene	1.562	1.584	1.891	1.621	1.664	9.17
83) M	1,3-Dichlorobenzene	0.798	0.773	0.958	0.785	0.829	10.47
84) M	1,4-Dichlorobenzene	0.813	0.777	0.950	0.785	0.831	9.66
85)	n-Butylbenzene	1.416	1.420	1.679	1.490	1.502	8.21
86) T	Hexachloroethane	0.265	0.265	0.319	0.274	0.281	9.25
87) M	1,2-Dichlorobenzene	0.791	0.778	0.943	0.761	0.818	10.25
88)	1,2-Dibromo-3-Ch...	0.129	0.128	0.148	0.116	0.130	10.28
89)	1,2,4-Trichlorob...	0.380	0.402	0.439	0.371	0.398	7.51
90)	Hexachlorobutadiene	0.194	0.167	0.176	0.151	0.172	10.39
91) M	Naphthalene	1.578	1.548	1.756	1.396	1.569	9.41
92)	1,2,3-Trichlorob...	0.380	0.402	0.439	0.371	0.398	7.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	20477	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	121329	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	110874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	59014	29.547	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.500%	
60) 4-Bromofluorobenzene	12.847	95	66521	30.135	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.433%	
63) Toluene-d8	10.565	98	185448	29.627	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.767%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	167899	102.336	ug/l	97
3) Chloromethane	2.359	50	220891	97.412	ug/l	99
4) Vinyl Chloride	2.518	62	212658	98.457	ug/l	97
5) Bromomethane	2.959	94	94323	87.548	ug/l	99
6) Chloroethane	3.118	64	128777	94.415	ug/l	98
7) Trichlorofluoromethane	3.500	101	227259	96.994	ug/l	100
8) Diethyl Ether	3.959	74	101866	94.275	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	139276	96.398	ug/l	99
10) 1,1-Dichloroethene	4.341	96	144087	92.407	ug/l	98
11) Methyl Iodide	4.589	142	168878	94.232	ug/l	98
12) Methyl Acetate	5.018	43	200798	91.194	ug/l	99
13) Acrolein	4.177	56	131999	527.390	ug/l	100
14) Acrylonitrile	5.712	53	430948	463.608	ug/l	99
15) Acetone	4.424	58	102413	434.159	ug/l	86
16) Carbon Disulfide	4.712	76	413127	92.399	ug/l	99
17) Allyl chloride	5.018	41	254150	93.519	ug/l	98
18) Methylene Chloride	5.277	84	164274	92.405	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	152296	108.281	ug/l	99
20) Diisopropyl ether	6.665	45	555310	95.034	ug/l	96
21) 1,1-Dichloroethane	6.565	63	298980	95.915	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	182539	93.299	ug/l	97
23) tert-Butyl Alcohol	5.512	59	171504	445.280	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	526162	93.663	ug/l	98
25) Chloroform	7.965	83	281205	94.604	ug/l	96
26) Cyclohexane	8.253	56	277499	95.155	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	213302	98.138	ug/l	99
30) 2-Butanone	7.477	43	562722	467.239	ug/l	100
31) 2,2-Dichloropropane	7.488	77	263451	98.472	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	237411	94.957	ug/l	100
33) Carbon Tetrachloride	8.359	117	195904	98.048	ug/l	99
34) Benzene	8.600	78	675144	97.638	ug/l	97
35) Methacrylonitrile	7.777	41	129803	95.604	ug/l	99
36) 1,2-Dichloroethane	8.665	62	210783	97.412	ug/l	99
37) Trichloroethene	9.347	130	163126	97.775	ug/l	91
38) Methylcyclohexane	9.594	83	265418	99.571	ug/l	100
39) 1,2-Dichloropropane	9.618	63	169660	98.606	ug/l	98
40) Dibromomethane	9.706	93	105464	94.904	ug/l	99
41) Bromodichloromethane	9.882	83	225206	94.332	ug/l	99
42) Vinyl Acetate	6.600	43	1951001	475.901	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	222324	91.520	ug/l	99
44) Isopropyl Acetate	8.682	43	407532	90.431	ug/l	98
45) 1,4-Dioxane	9.694	88	65820	1836.730	ug/l #	92
46) Methyl methacrylate	9.676	41	189237	95.302	ug/l	99
47) n-amyl Acetate	12.488	43	338467	92.953	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	263069	97.471	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	281650	98.600	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	147343	94.534	ug/l	98
51) Ethyl methacrylate	10.870	69	276983	95.629	ug/l	97
52) 1,3-Dichloropropane	11.159	76	268559	96.673	ug/l	99
53) Dibromochloromethane	11.359	129	164626	96.562	ug/l	100
54) 1,2-Dibromoethane	11.465	107	149844	95.239	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	109257	99.826	ug/l	99
56) Bromoform	12.576	173	105955	94.994	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1157830	460.173	ug/l	99
59) 2-Hexanone	11.194	43	858112	458.017	ug/l	100
61) Tetrachloroethene	11.100	164	159732	97.556	ug/l	96
62) Toluene	10.629	91	705070	94.810	ug/l	99
64) Chlorobenzene	11.888	112	427265	94.040	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	142064	94.745	ug/l	99
66) Ethyl Benzene	11.959	91	775657	94.050	ug/l	98
67) m/p-Xylenes	12.070	106	587623	191.616	ug/l	99
68) o-Xylene	12.394	106	287174	95.205	ug/l	98
69) Styrene	12.406	104	486004	95.537	ug/l	99
70) Isopropylbenzene	12.694	105	705950	94.920	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	184643	87.222	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	203289m	67.831	ug/l	
73) Bromobenzene	12.976	156	155884	94.613	ug/l	99
74) n-propylbenzene	13.035	91	854262	96.989	ug/l	100
75) 2-Chlorotoluene	13.123	91	518416	93.916	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	586325	95.970	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	95696	94.184	ug/l	92
78) 4-Chlorotoluene	13.217	91	524792	95.194	ug/l	99
79) tert-butylbenzene	13.435	119	492114	93.090	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	593988	95.880	ug/l	99
81) sec-Butylbenzene	13.611	105	711037	96.423	ug/l	99
82) p-Isopropyltoluene	13.723	119	599176	97.402	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	290118	94.739	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	290254	94.482	ug/l	100
85) n-Butylbenzene	14.053	91	550772	99.247	ug/l	100
86) Hexachloroethane	14.329	117	101143	97.469	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	281264	93.023	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	42853	88.876	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100
90) Hexachlorobutadiene	15.500	225	55837	87.904	ug/l	99
91) Naphthalene	15.635	128	516032	88.964	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100

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

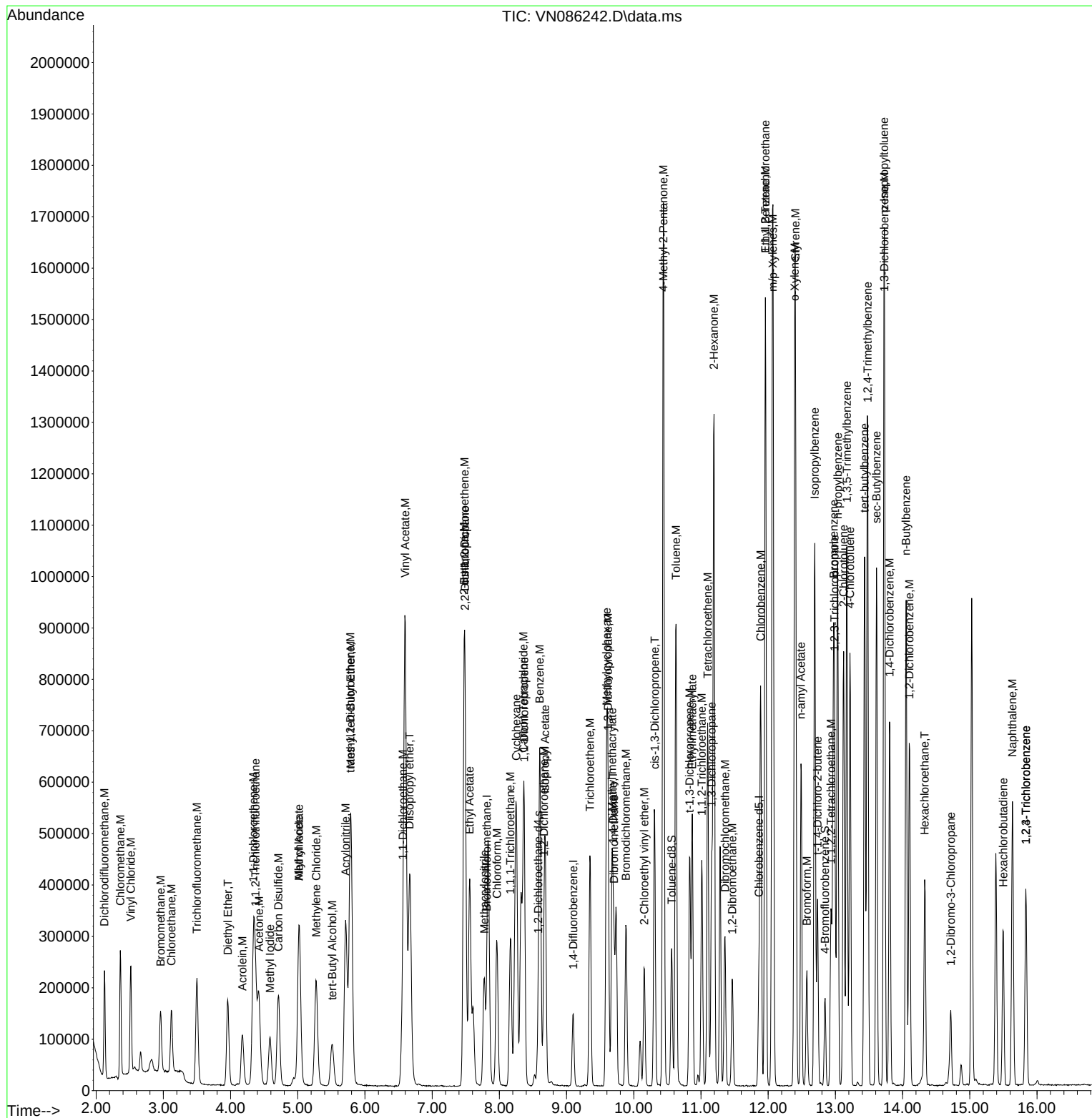
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086242.D
Acq On : 11 Apr 2025 11:04
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

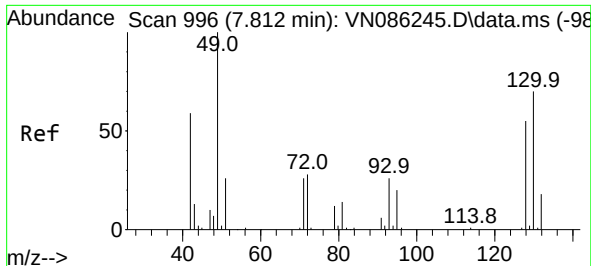
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025

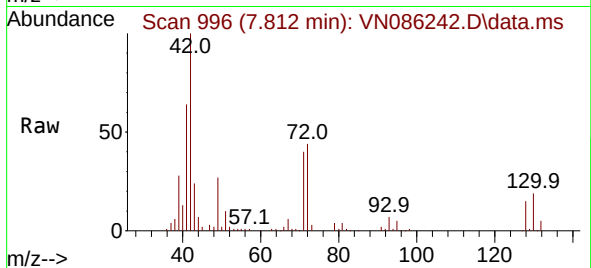
Quant Time: Apr 12 00:17:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 00:09:06 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

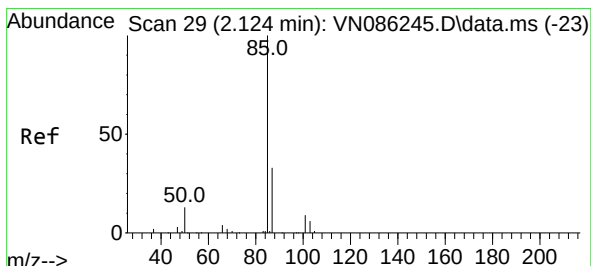
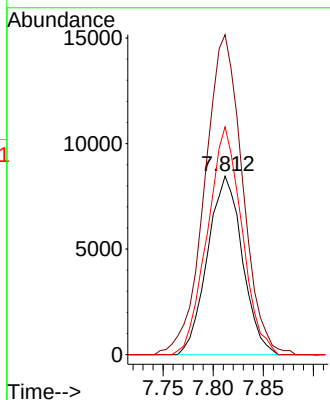
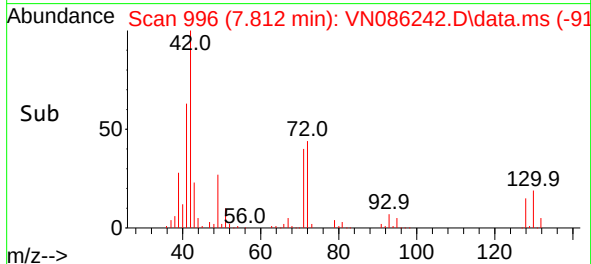
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 2047
Ion Ratio Lower Upper
128 100
49 194.2 0.0 452.5
130 126.4 0.0 315.0

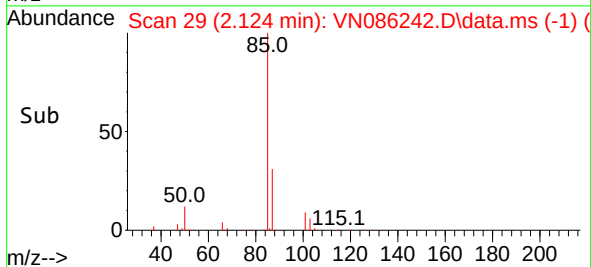
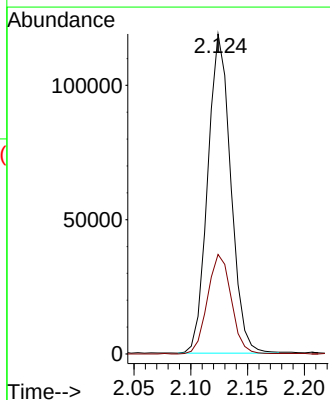
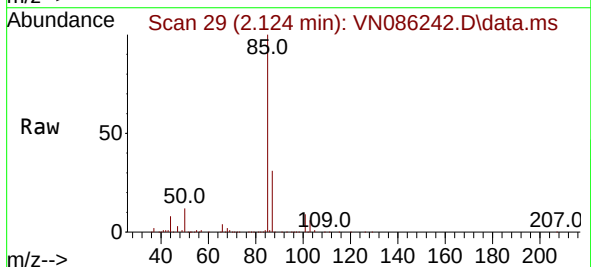
Manual Integrations
APPROVED

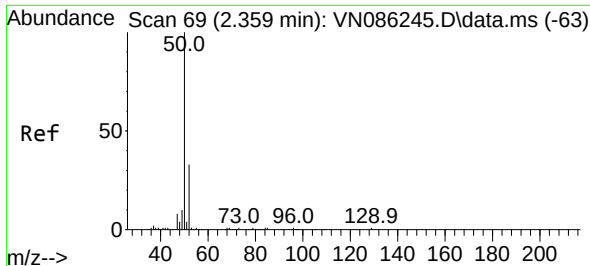
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 102.336 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 85 Resp: 167899
Ion Ratio Lower Upper
85 100
87 31.2 16.3 48.9





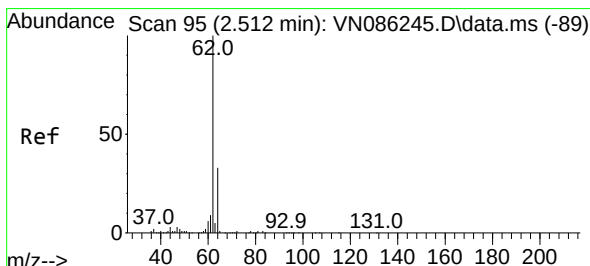
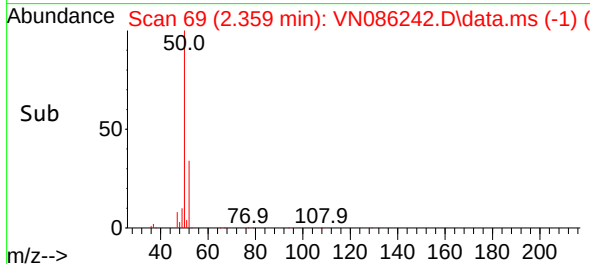
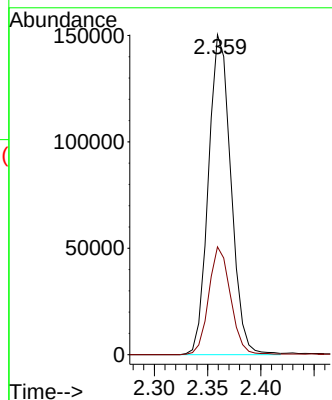
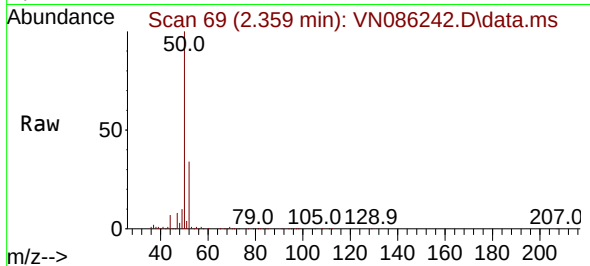
#3
Chloromethane
Concen: 97.412 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 22089
Ion Ratio Lower Upper
50 100
52 33.7 26.4 39.6

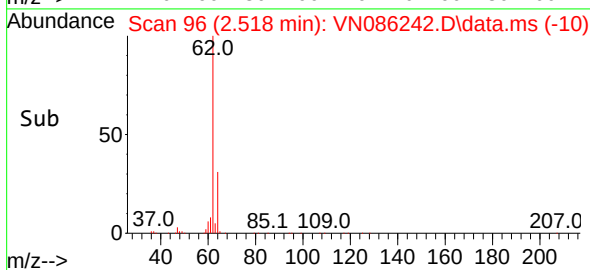
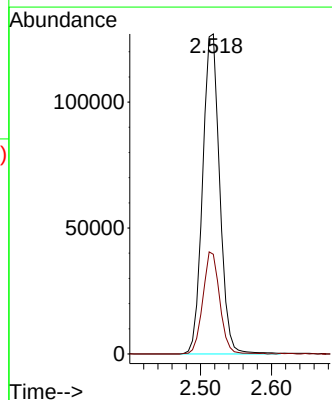
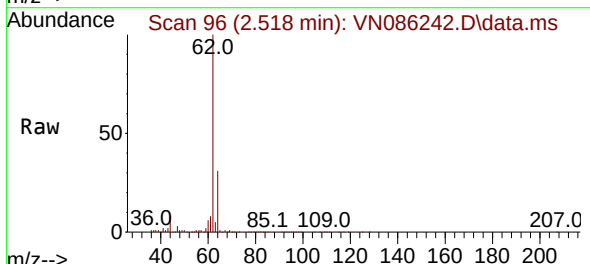
Manual Integrations
APPROVED

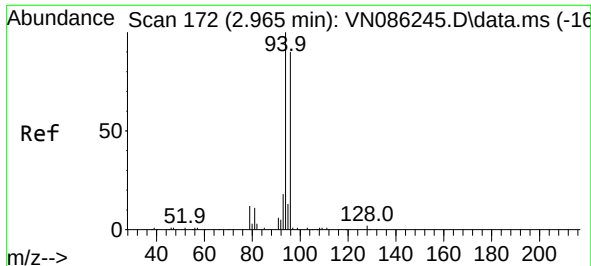
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 98.457 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 62 Resp: 212658
Ion Ratio Lower Upper
62 100
64 31.1 26.3 39.5





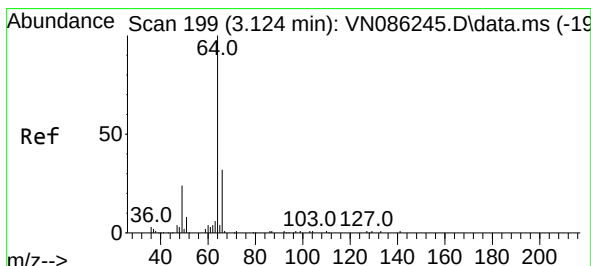
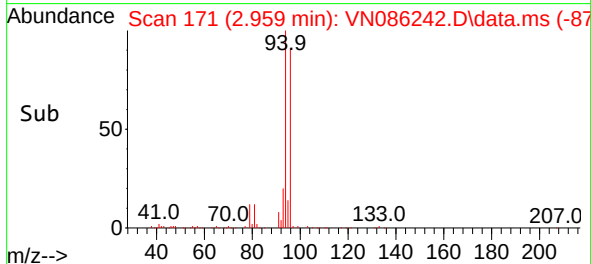
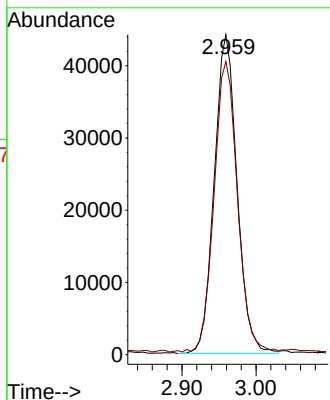
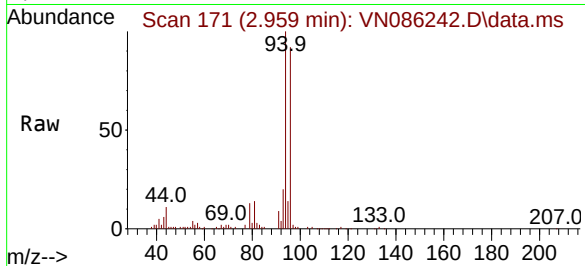
#5
Bromomethane
Concen: 87.548 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 9432
Ion Ratio Lower Upper
94 100
96 90.7 72.2 108.2

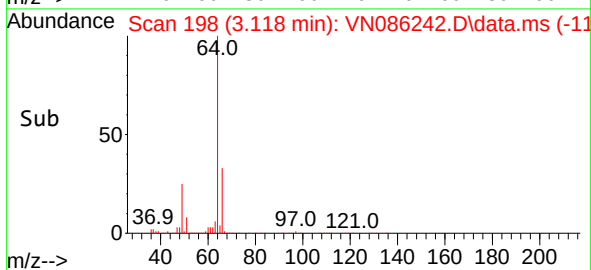
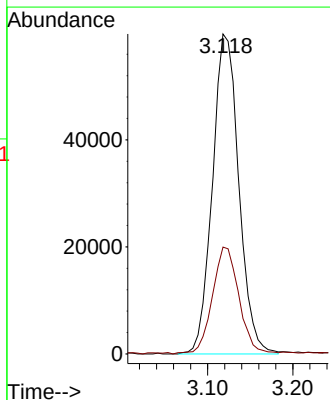
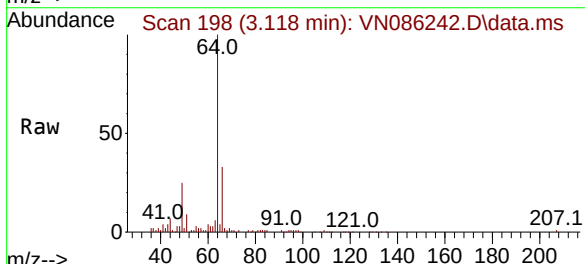
Manual Integrations
APPROVED

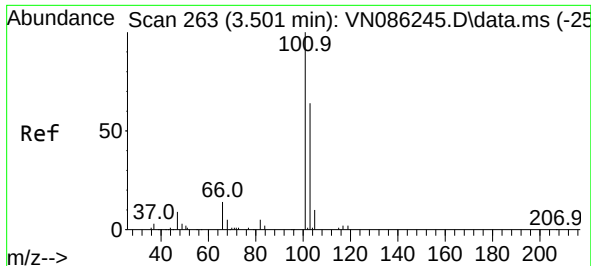
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#6
Chloroethane
Concen: 94.415 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

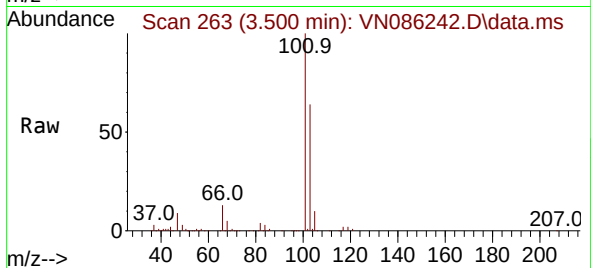
Tgt Ion: 64 Resp: 128777
Ion Ratio Lower Upper
64 100
66 33.0 25.7 38.5





#7
 Trichlorofluoromethane
 Concen: 96.994 ug/l
 RT: 3.500 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

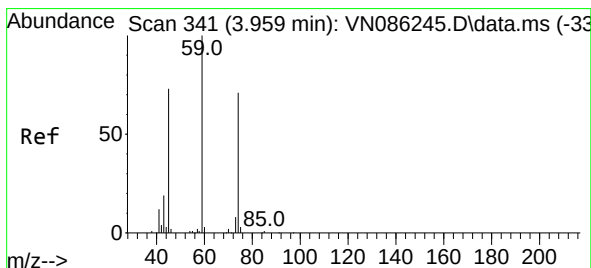
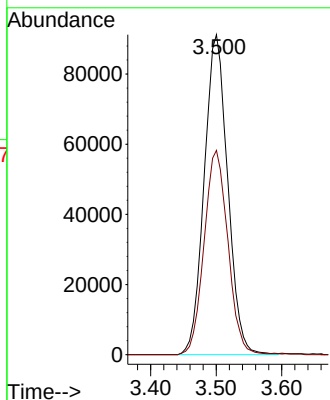
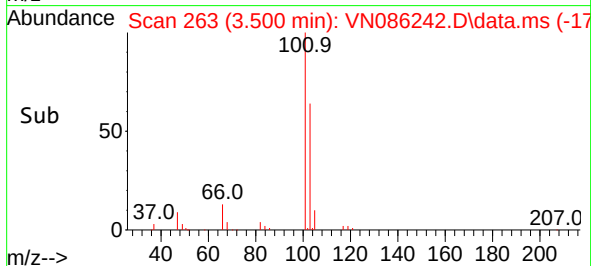
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100



Tgt Ion:101 Resp: 227259
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.2 76.8

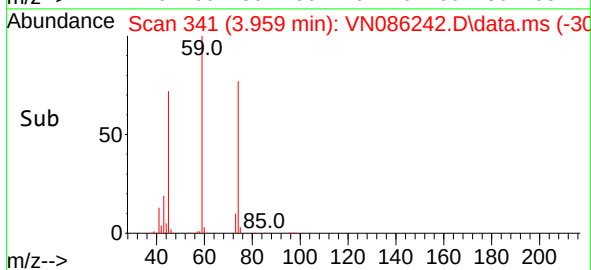
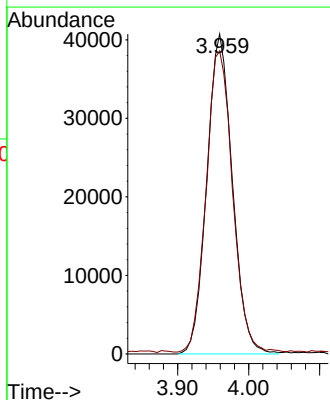
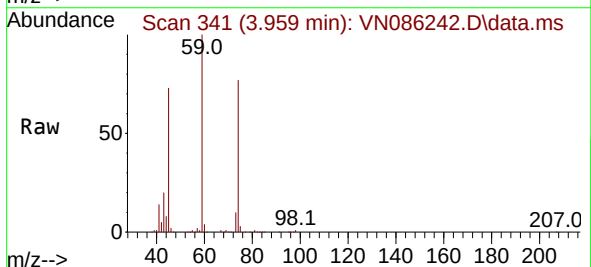
Manual Integrations
 APPROVED

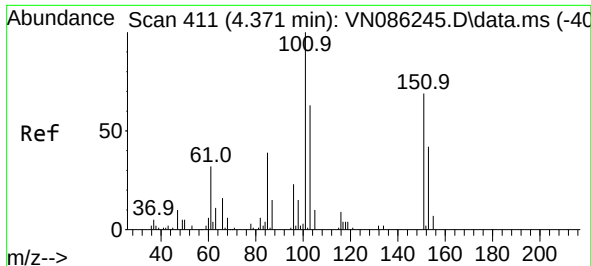
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#8
 Diethyl Ether
 Concen: 94.275 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Tgt Ion: 74 Resp: 101866
 Ion Ratio Lower Upper
 74 100
 45 96.7 19.2 173.2





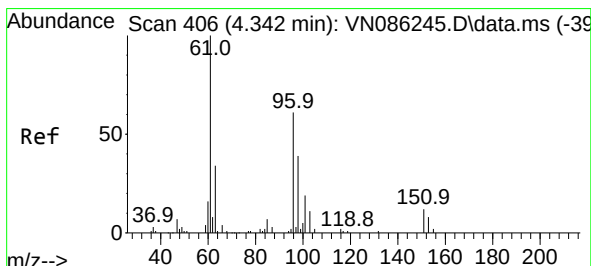
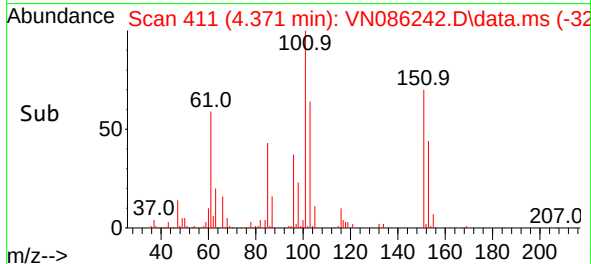
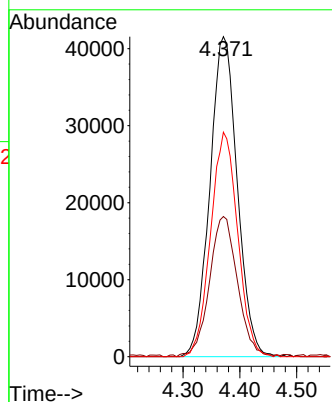
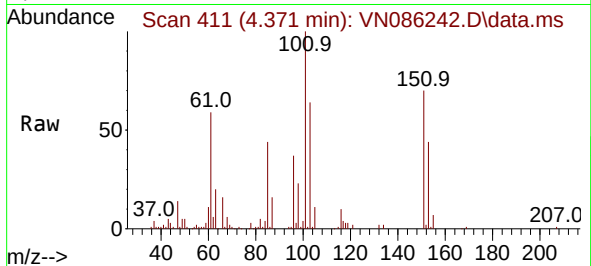
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 96.398 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Tgt Ion:101 Resp: 139270
 Ion Ratio Lower Upper
 101 100
 85 44.7 0.0 93.0
 151 69.2 0.0 138.6

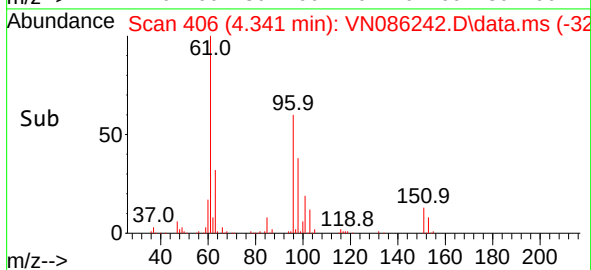
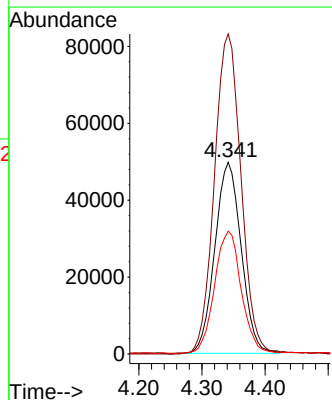
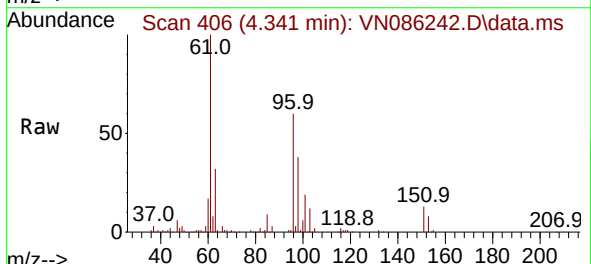
Manual Integrations
 APPROVED

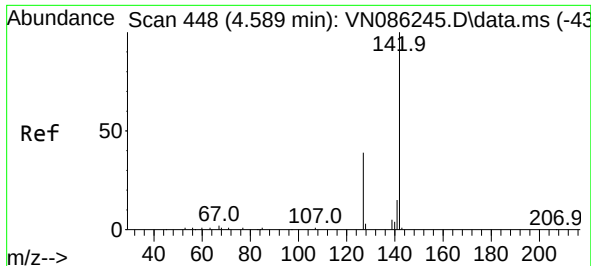
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#10
 1,1-Dichloroethene
 Concen: 92.407 ug/l
 RT: 4.341 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

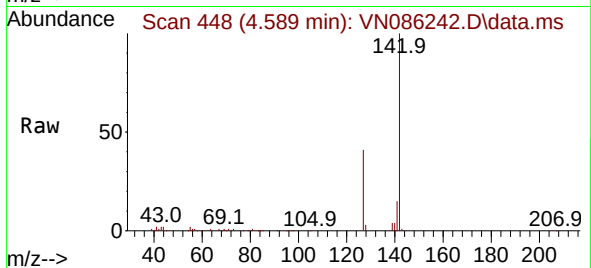
Tgt Ion: 96 Resp: 144087
 Ion Ratio Lower Upper
 96 100
 61 167.5 131.1 196.7
 98 63.7 51.6 77.4





#11
Methyl Iodide
Concen: 94.232 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

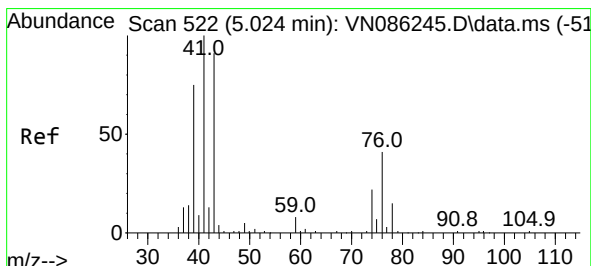
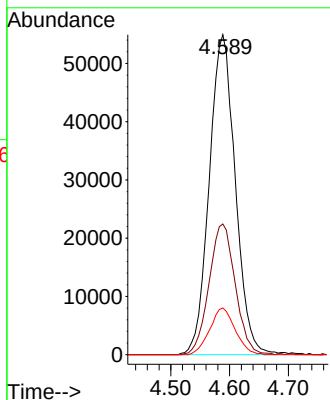
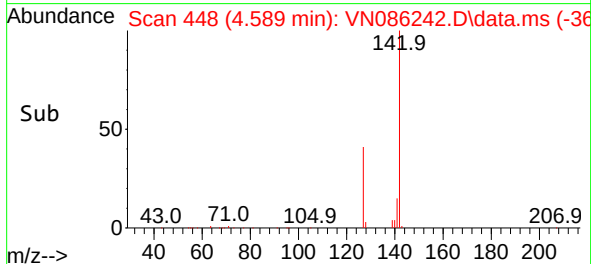
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:142 Resp: 168878
Ion Ratio Lower Upper
142 100
127 40.8 19.6 58.8
141 14.6 7.3 21.9

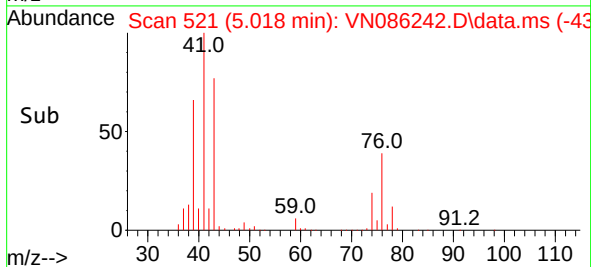
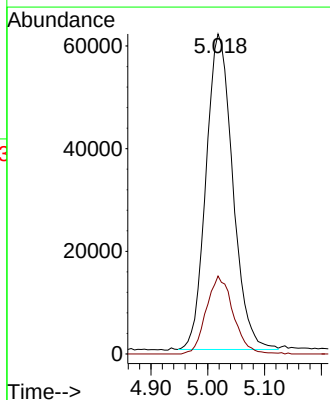
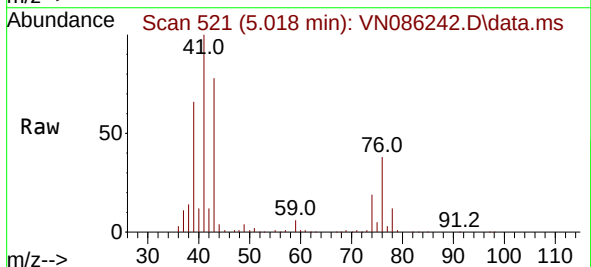
Manual Integrations
APPROVED

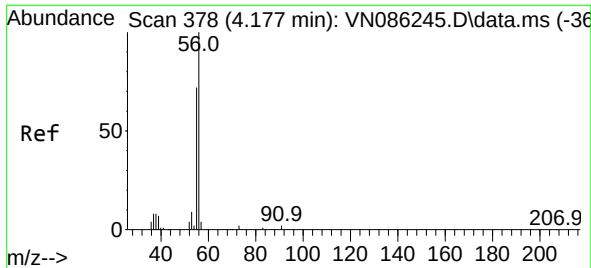
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#12
Methyl Acetate
Concen: 91.194 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

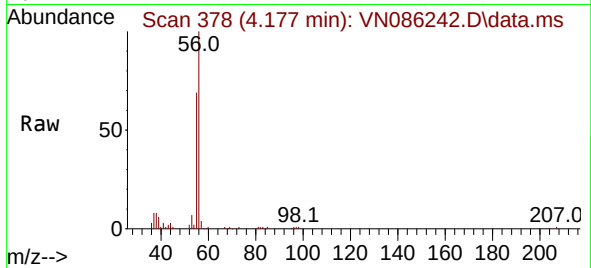
Tgt Ion: 43 Resp: 200798
Ion Ratio Lower Upper
43 100
74 24.6 19.1 28.7





#13
Acrolein
Concen: 527.390 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

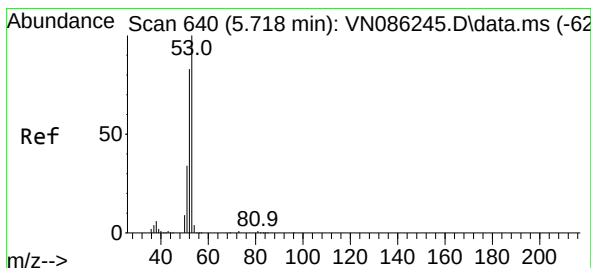
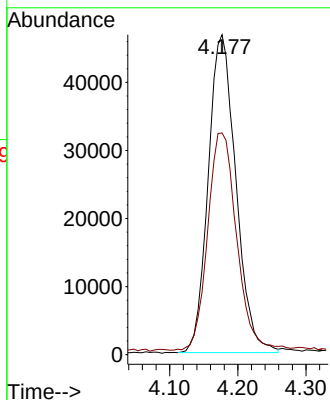
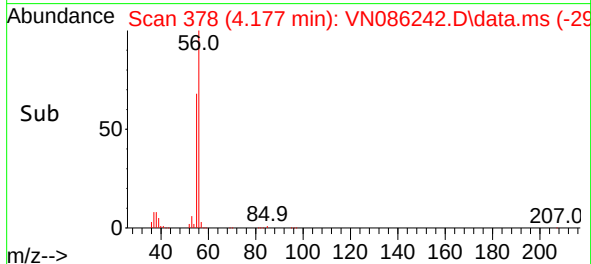
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 131999
Ion Ratio Lower Upper
56 100
55 70.9 56.5 84.7

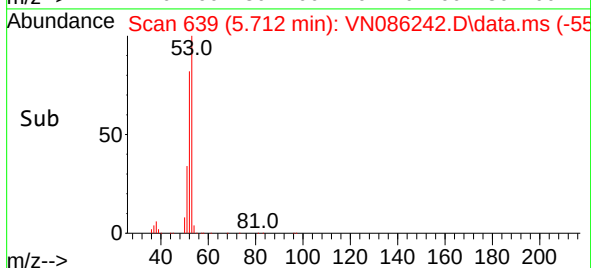
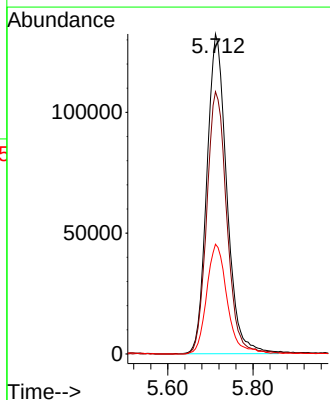
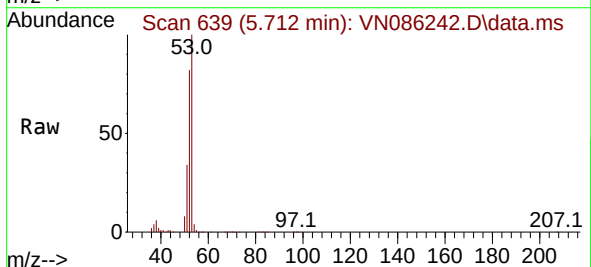
Manual Integrations
APPROVED

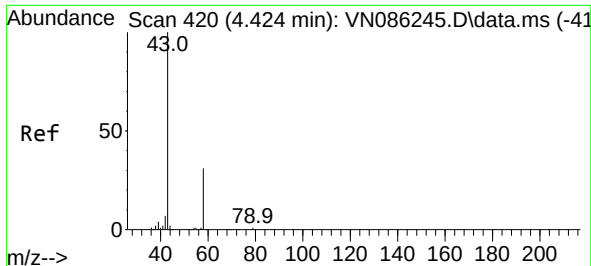
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#14
Acrylonitrile
Concen: 463.608 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

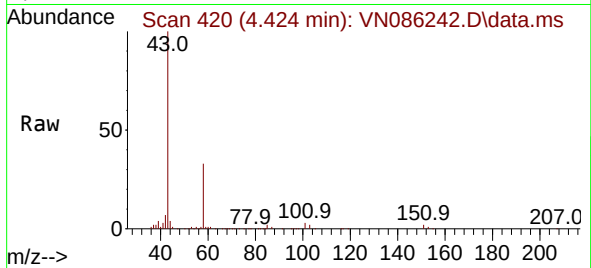
Tgt Ion: 53 Resp: 430948
Ion Ratio Lower Upper
53 100
52 82.1 40.2 120.6
51 35.1 17.5 52.6





#15
Acetone
Concen: 434.159 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

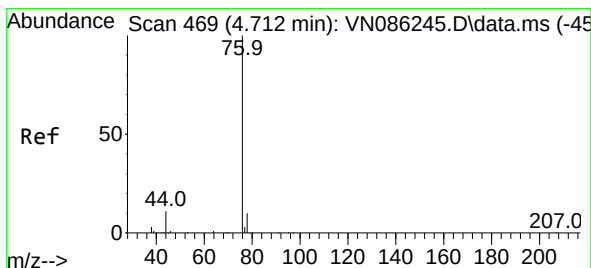
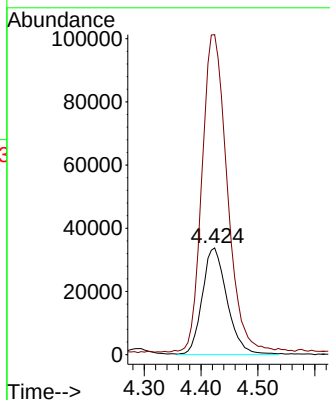
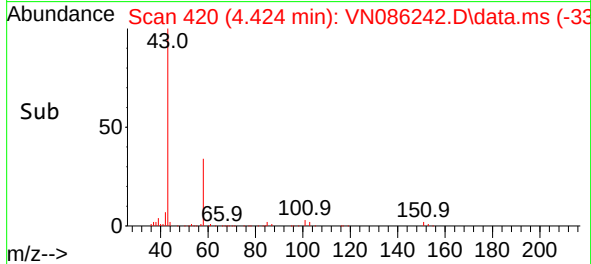
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 58 Resp: 10241
Ion Ratio Lower Upper
58 100
43 297.7 261.8 392.8

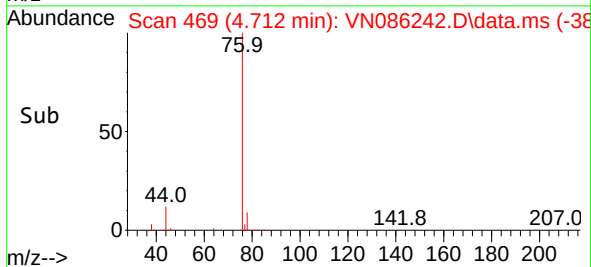
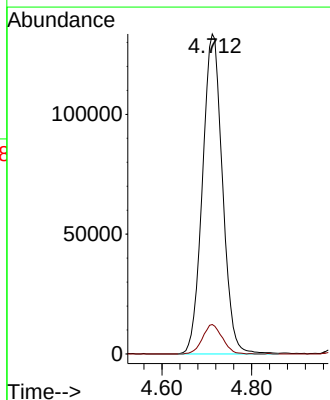
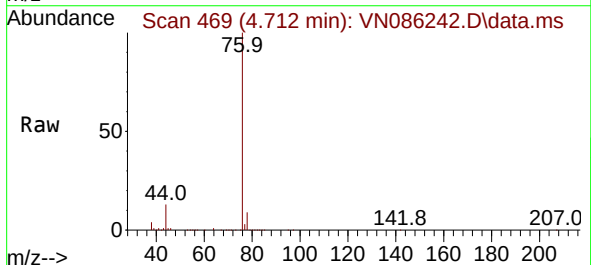
Manual Integrations
APPROVED

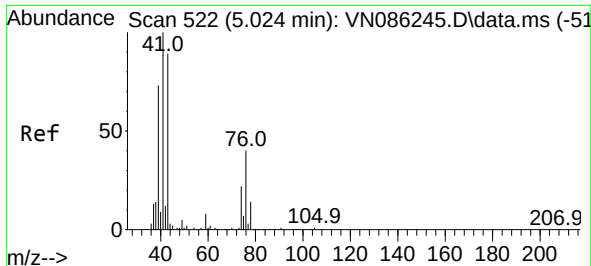
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#16
Carbon Disulfide
Concen: 92.399 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

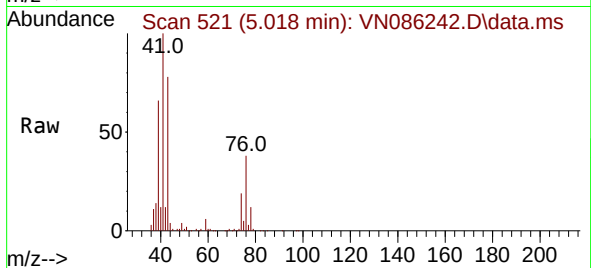
Tgt Ion: 76 Resp: 413127
Ion Ratio Lower Upper
76 100
78 9.2 7.7 11.5





#17
 Allyl chloride
 Concen: 93.519 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

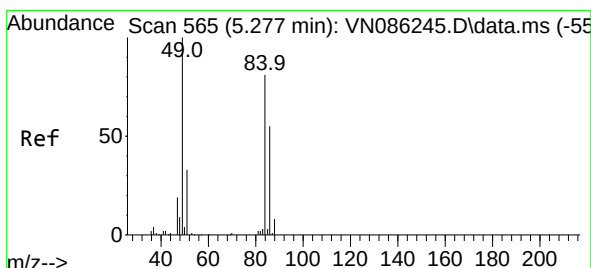
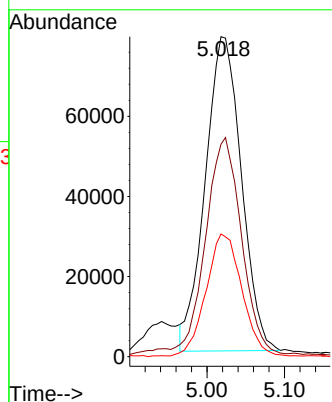
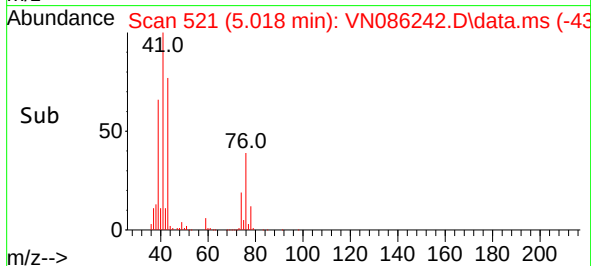
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100



Tgt Ion: 41 Resp: 254150
 Ion Ratio Lower Upper
 41 100
 39 66.6 34.4 103.2
 76 38.5 18.8 56.3

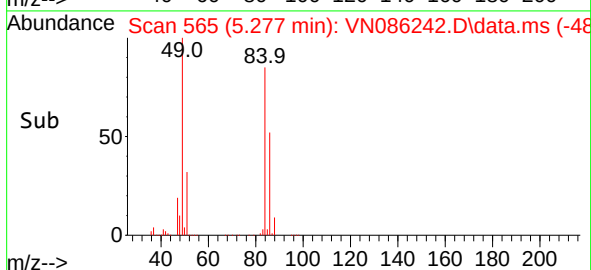
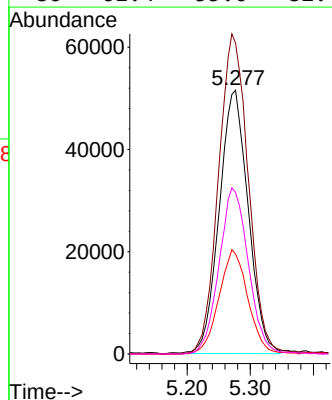
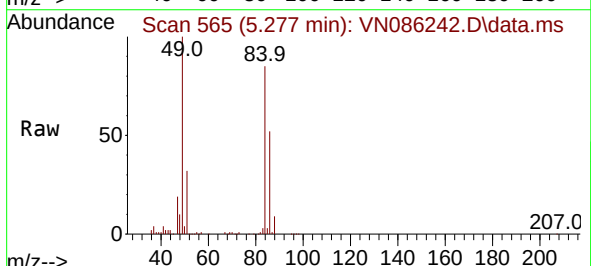
Manual Integrations
 APPROVED

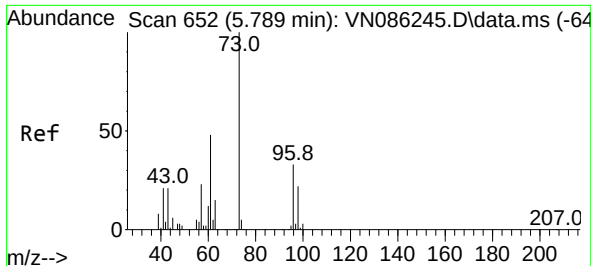
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#18
 Methylene Chloride
 Concen: 92.405 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

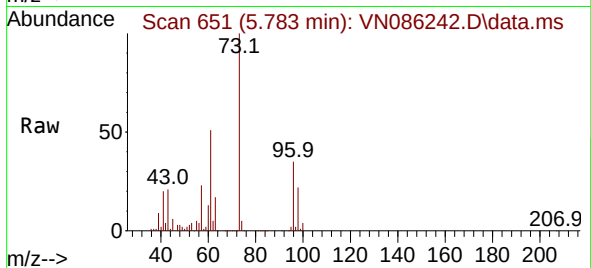
Tgt Ion: 84 Resp: 164274
 Ion Ratio Lower Upper
 84 100
 49 118.2 99.1 148.7
 51 38.0 32.3 48.5
 86 61.4 55.0 82.4





#19
trans-1,2-Dichloroethene
Concen: 108.281 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

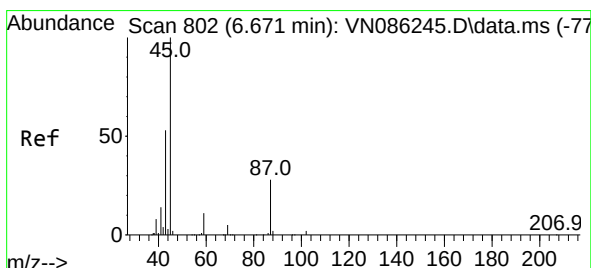
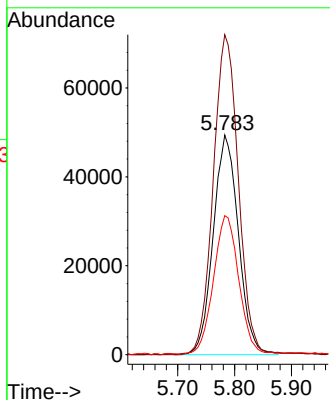
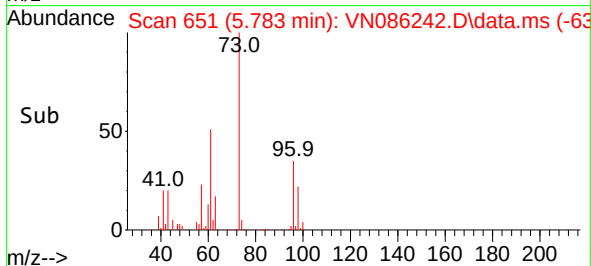
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 152290
Ion Ratio Lower Upper
96 100
61 145.7 115.9 173.9
98 62.9 52.1 78.1

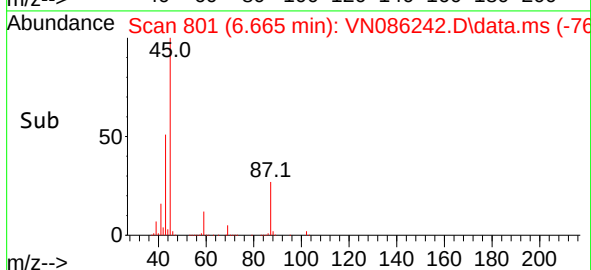
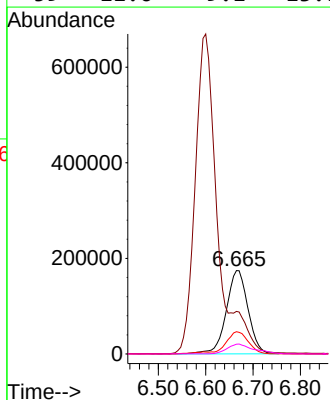
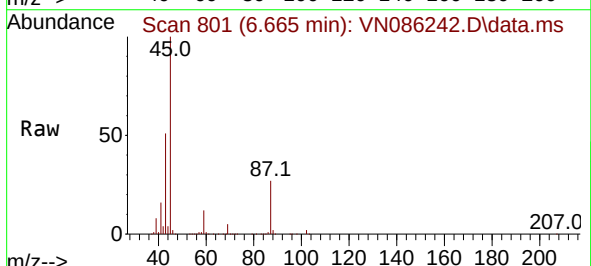
Manual Integrations
APPROVED

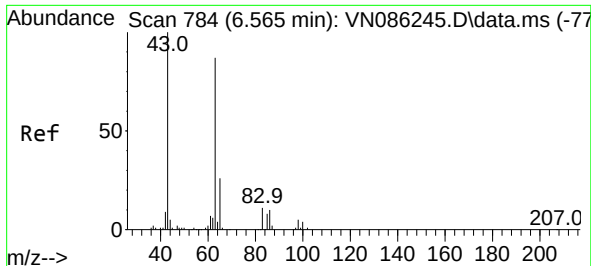
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#20
Diisopropyl ether
Concen: 95.034 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

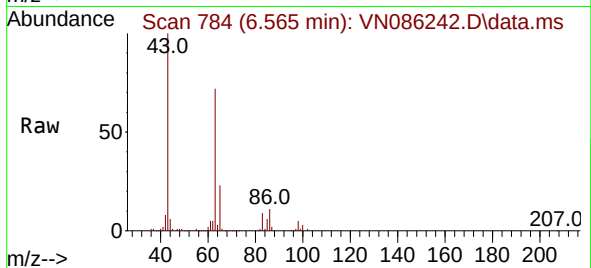
Tgt Ion: 45 Resp: 555310
Ion Ratio Lower Upper
45 100
43 49.6 42.3 63.5
87 26.5 22.2 33.4
59 11.6 9.1 13.7





#21
1,1-Dichloroethane
Concen: 95.915 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

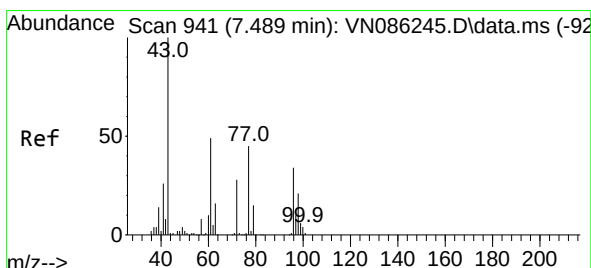
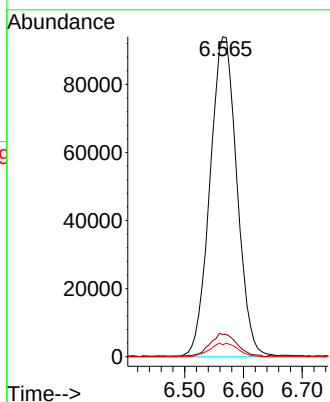
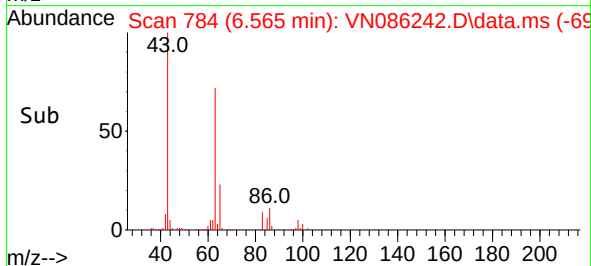
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 63 Resp: 298980
Ion Ratio Lower Upper
63 100
98 6.7 3.1 9.3
100 3.8 2.3 6.9

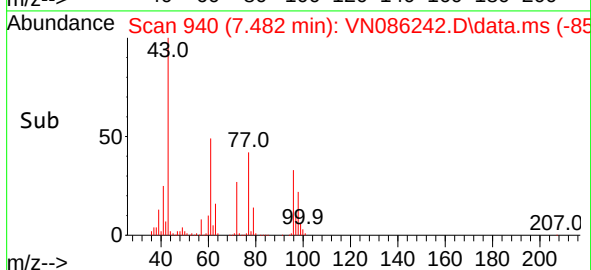
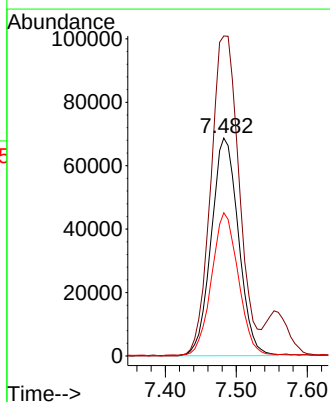
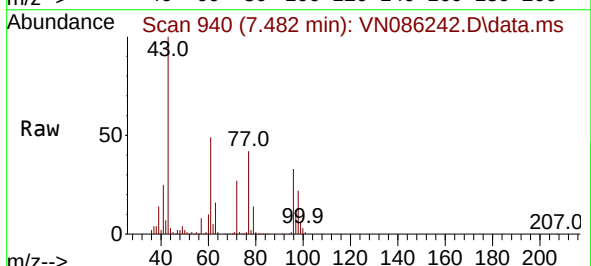
Manual Integrations
APPROVED

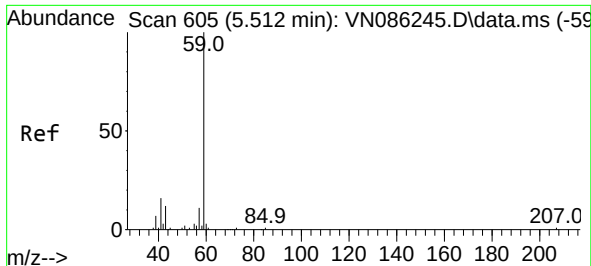
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 93.299 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

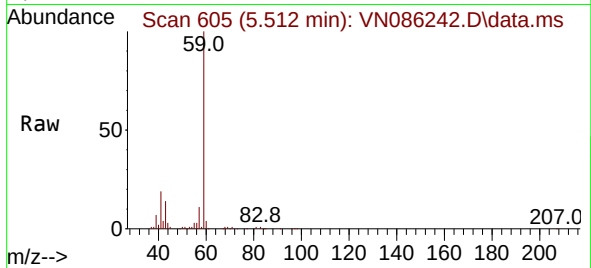
Tgt Ion: 96 Resp: 182539
Ion Ratio Lower Upper
96 100
61 154.3 119.5 179.3
98 64.4 51.0 76.6





#23
tert-Butyl Alcohol
Concen: 445.280 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

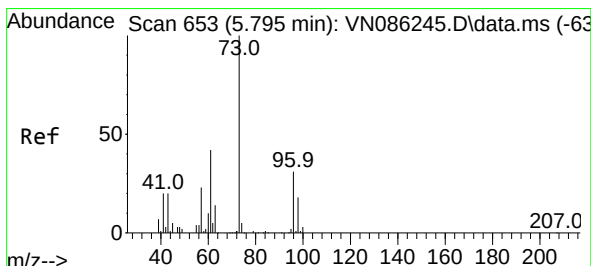
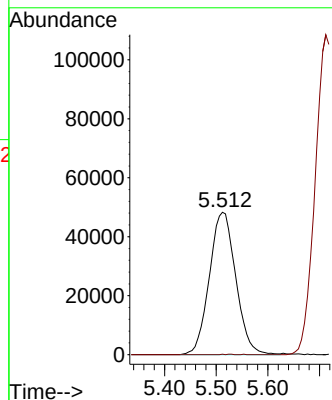
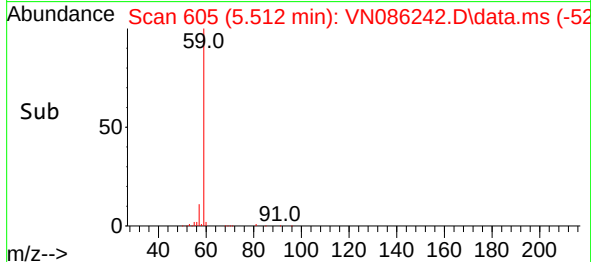
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



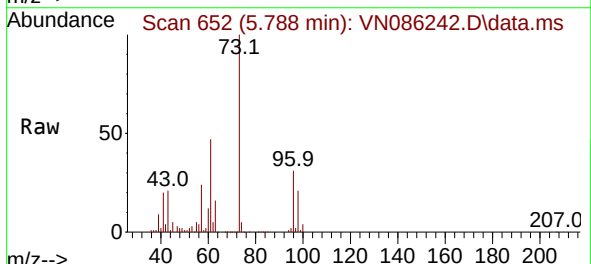
Tgt Ion: 59 Resp: 171504
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

Manual Integrations
APPROVED

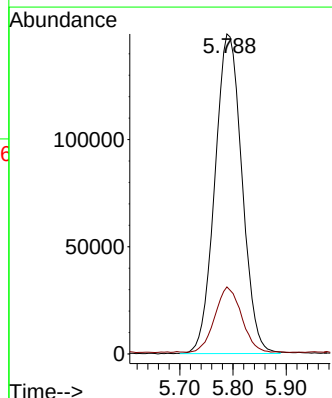
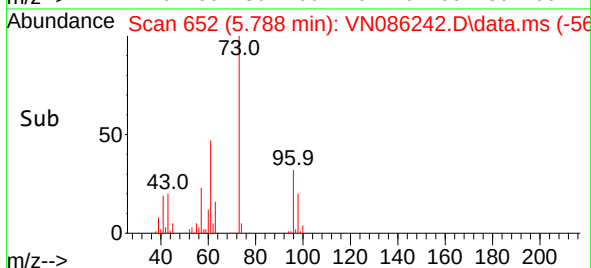
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

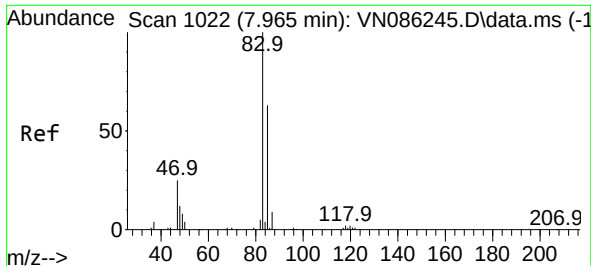


#24
Methyl tert-Butyl Ether
Concen: 93.663 ug/l
RT: 5.788 min Scan# 652
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



Tgt Ion: 73 Resp: 526162
Ion Ratio Lower Upper
73 100
43 19.9 16.8 25.2





#25

Chloroform

Concen: 94.604 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 28120

Ion Ratio Lower Upper

83 100

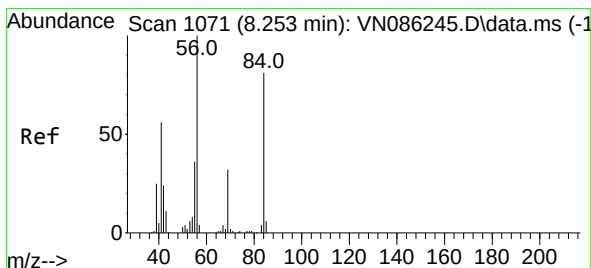
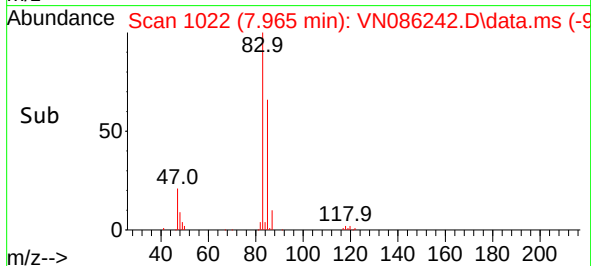
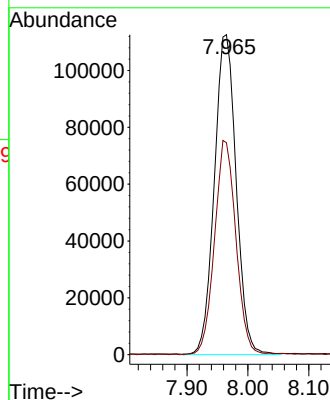
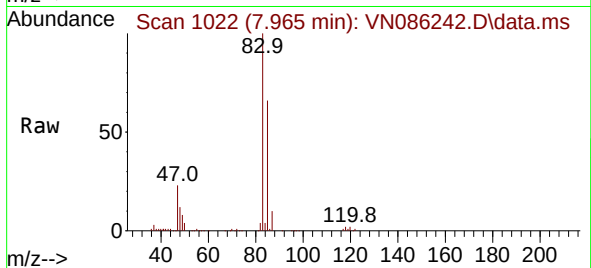
85 66.0 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 95.155 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

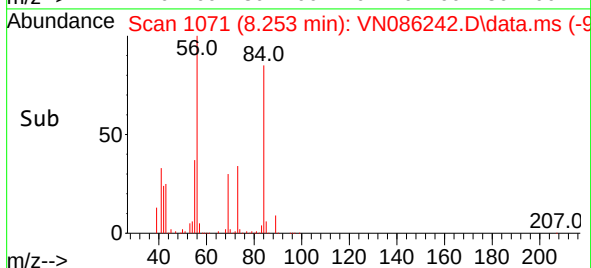
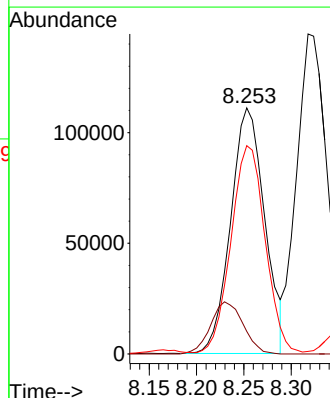
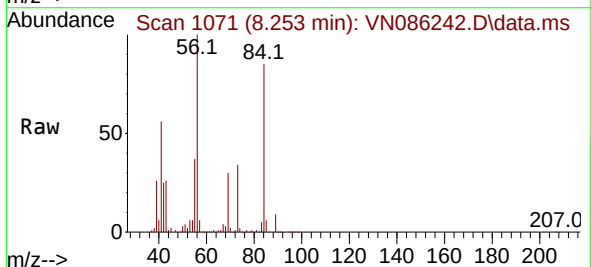
Tgt Ion: 56 Resp: 277499

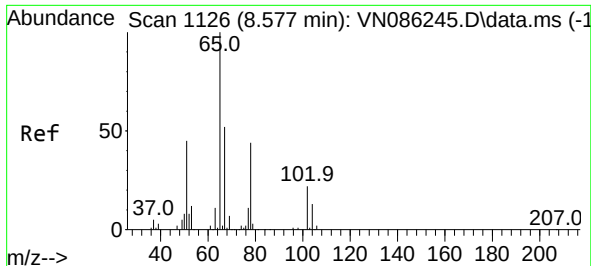
Ion Ratio Lower Upper

56 100

89 20.3 0.0 0.0#

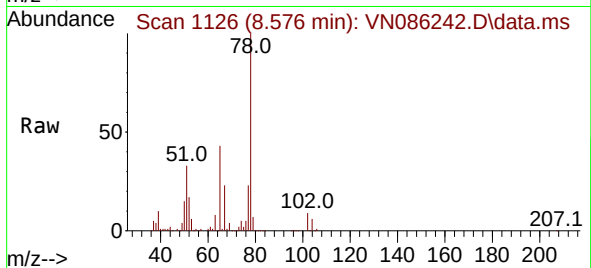
84 85.5 69.0 103.4





#27
1,2-Dichloroethane-d4
Concen: 29.547 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

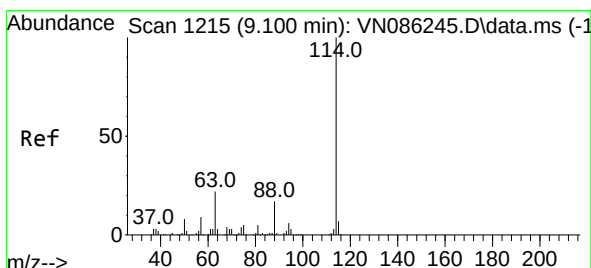
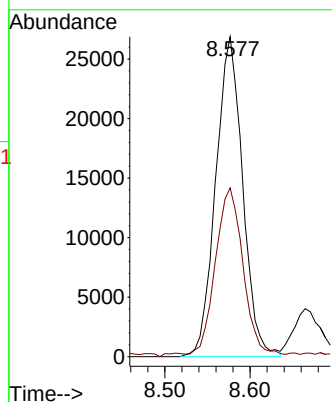
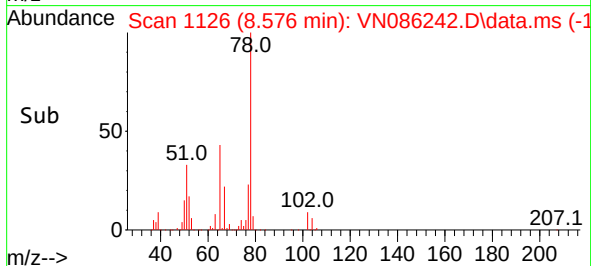
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 65 Resp: 59014
Ion Ratio Lower Upper
65 100
67 52.6 43.4 65.2

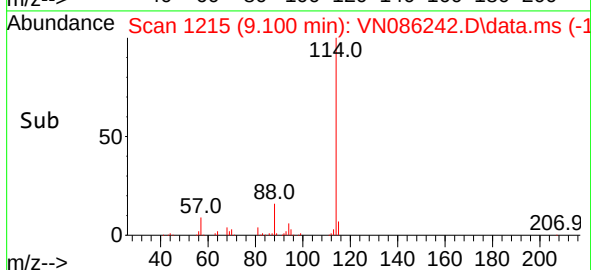
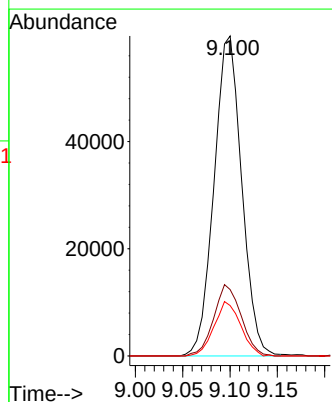
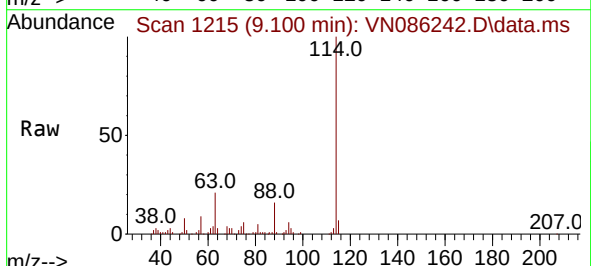
Manual Integrations
APPROVED

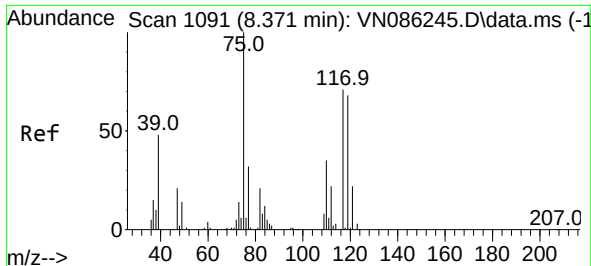
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:114 Resp: 121329
Ion Ratio Lower Upper
114 100
63 22.1 17.8 26.6
88 16.3 13.4 20.2





#29

1,1-Dichloropropene

Concen: 98.138 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 21330

Ion Ratio Lower Upper

75 100

110 33.2 0.0 68.6

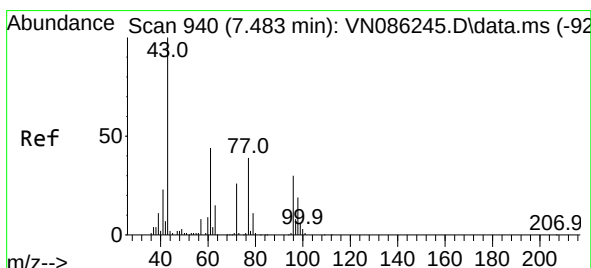
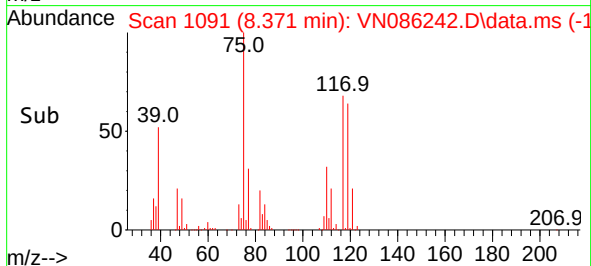
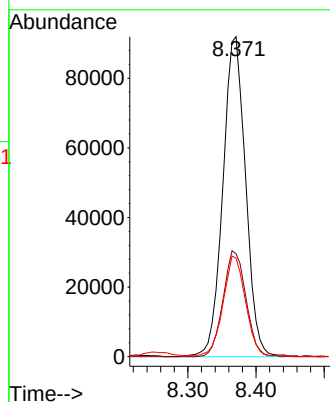
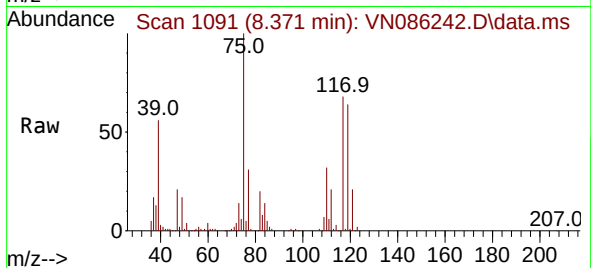
77 31.4 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 467.239 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

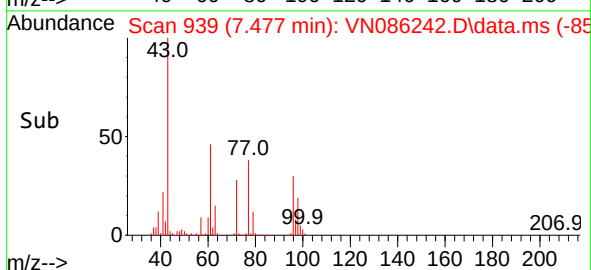
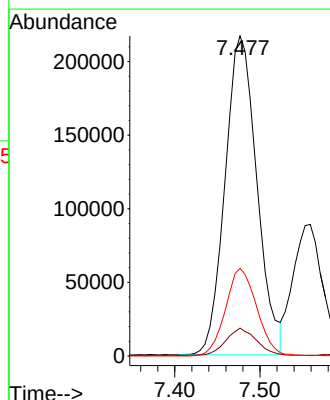
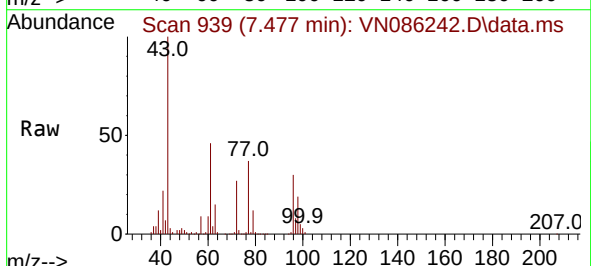
Tgt Ion: 43 Resp: 562722

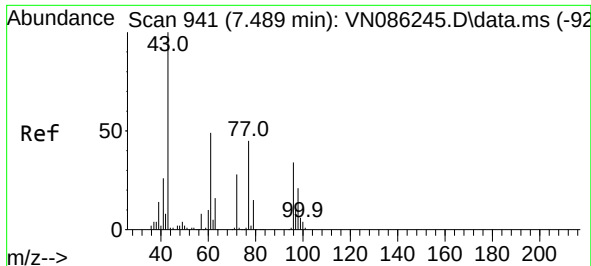
Ion Ratio Lower Upper

43 100

57 8.2 6.4 9.6

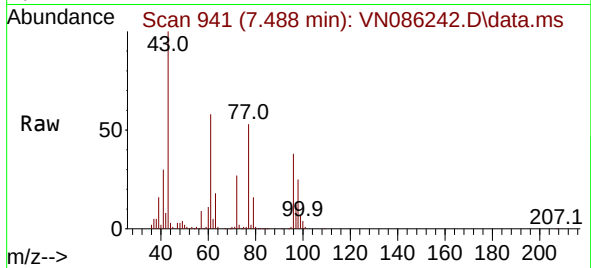
72 27.0 21.5 32.3





#31
2,2-Dichloropropane
Concen: 98.472 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

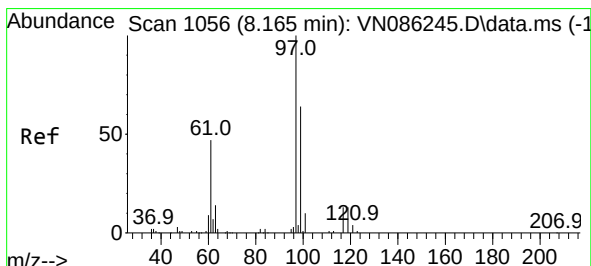
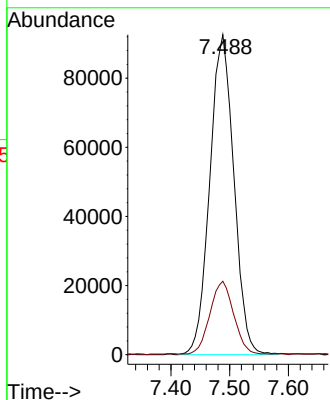
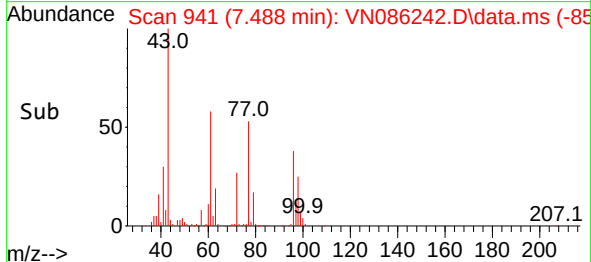
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



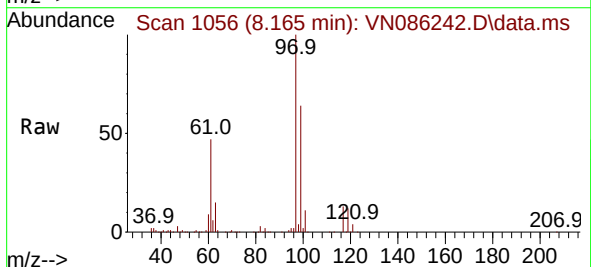
Tgt Ion: 77 Resp: 26345
Ion Ratio Lower Upper
77 100
97 22.6 18.8 28.2

Manual Integrations
APPROVED

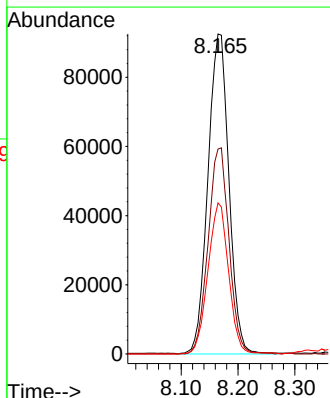
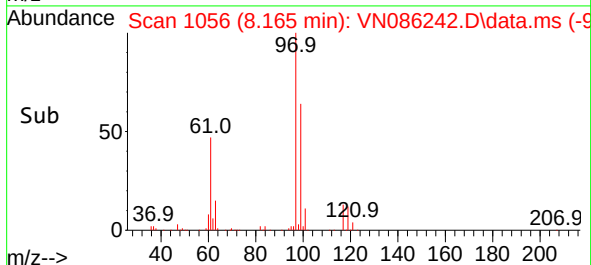
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

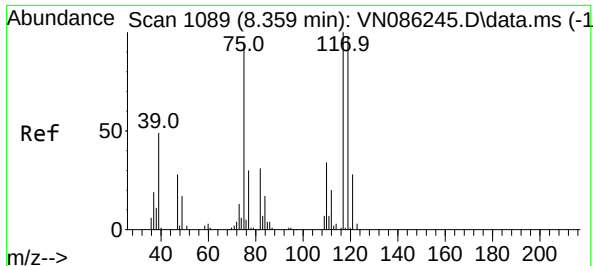


#32
1,1,1-Trichloroethane
Concen: 94.957 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



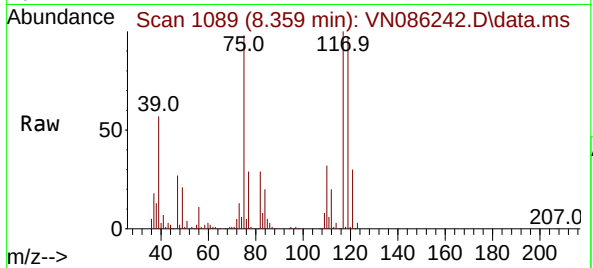
Tgt Ion: 97 Resp: 237411
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 46.3 37.0 55.6





#33
Carbon Tetrachloride
Concen: 98.048 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

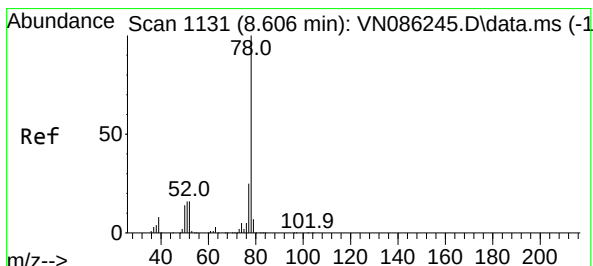
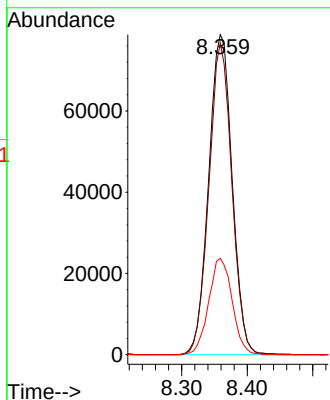
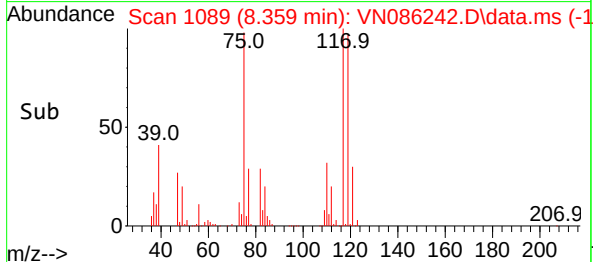
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 195904
Ion Ratio Lower Upper
117 100
119 97.4 78.3 117.5
121 30.1 22.5 33.7

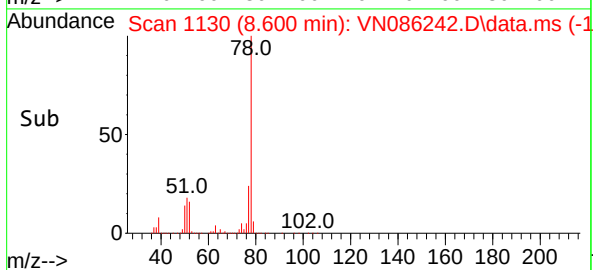
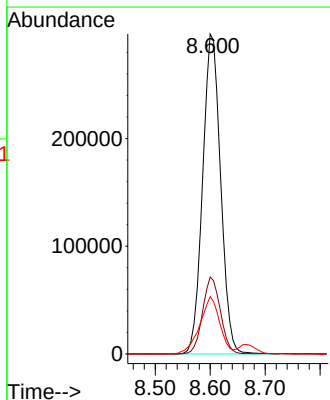
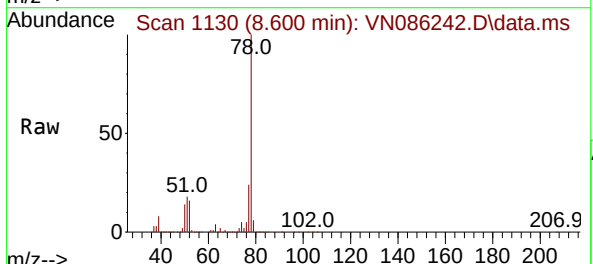
Manual Integrations
APPROVED

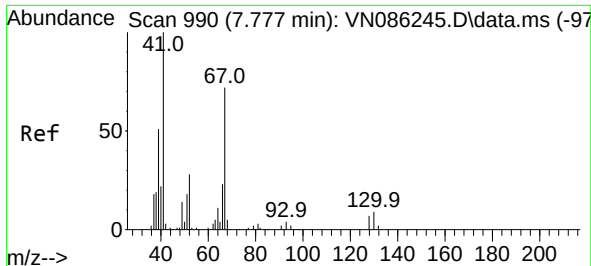
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 97.638 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

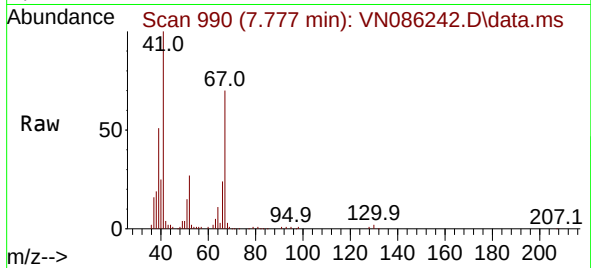
Tgt Ion: 78 Resp: 675144
Ion Ratio Lower Upper
78 100
77 24.1 20.0 30.0
51 17.9 12.9 19.3





#35
Methacrylonitrile
Concen: 95.604 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

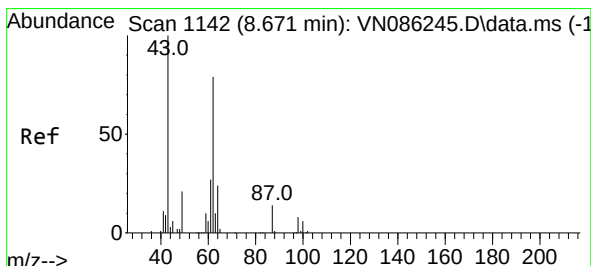
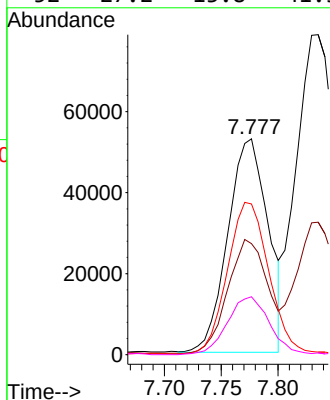
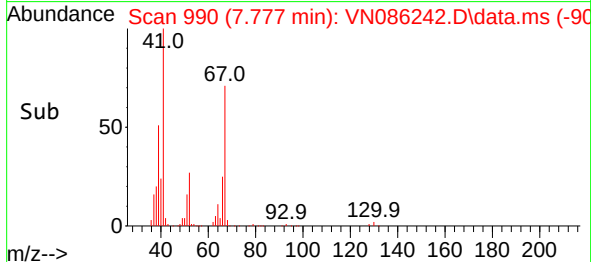
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:	41	Ratio	100	Lower	Upper
39	51.5	25.8	77.3		
67	70.4	36.0	108.0		
52	27.2	13.8	41.3		

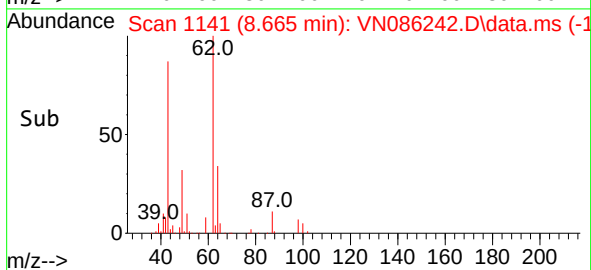
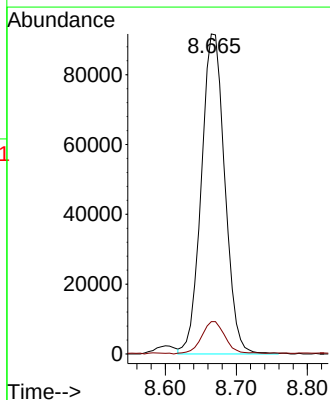
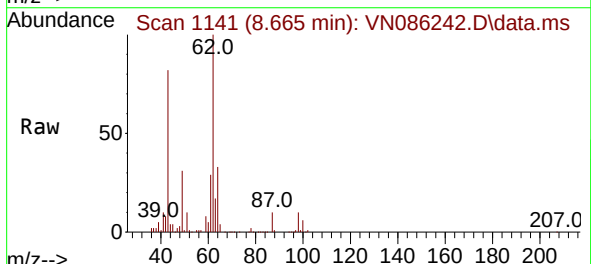
Manual Integrations
APPROVED

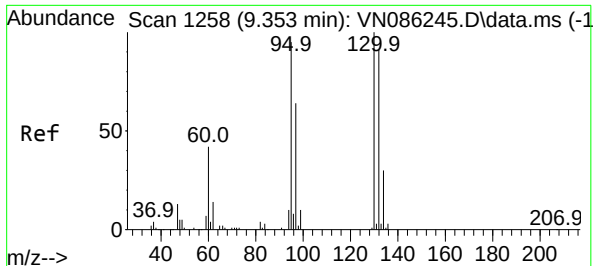
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#36
1,2-Dichloroethane
Concen: 97.412 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:	62	Ratio	100	Lower	Upper
98	10.1	8.6	12.8		





#37

Trichloroethene

Concen: 97.775 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:130 Resp: 163120

Ion Ratio Lower Upper

130 100

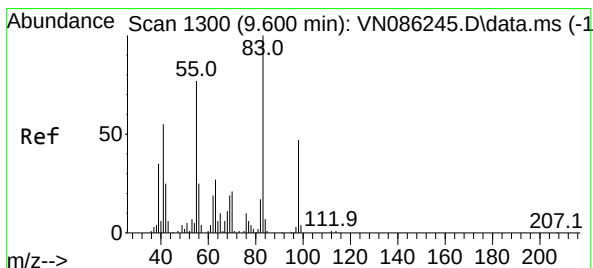
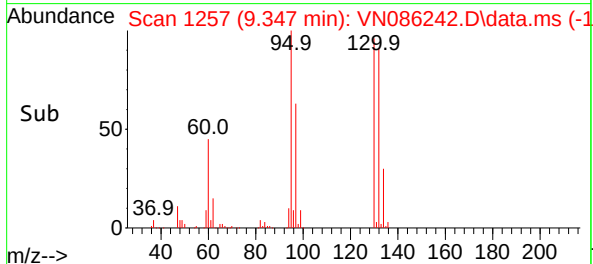
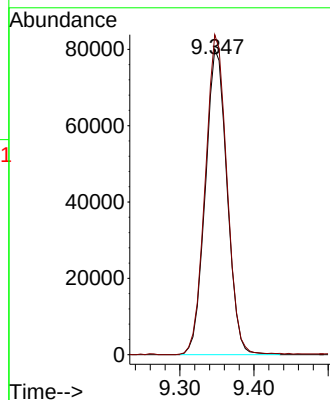
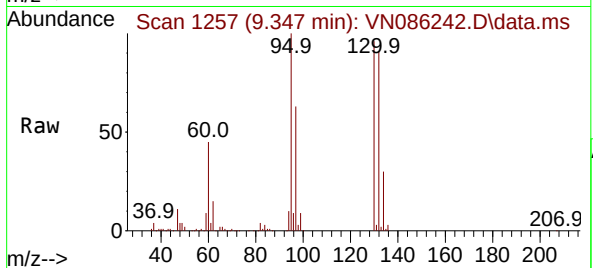
95 104.5 76.4 114.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#38

Methylcyclohexane

Concen: 99.571 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

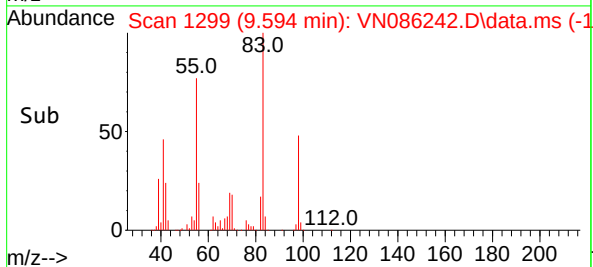
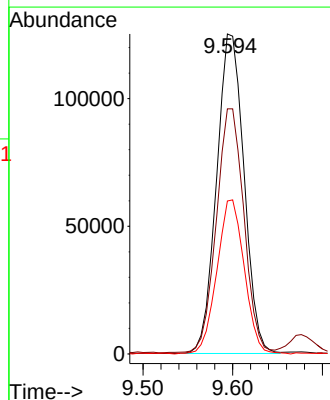
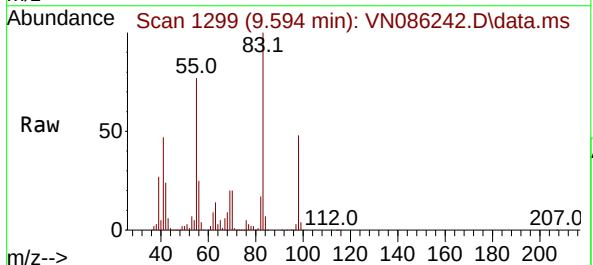
Tgt Ion: 83 Resp: 265418

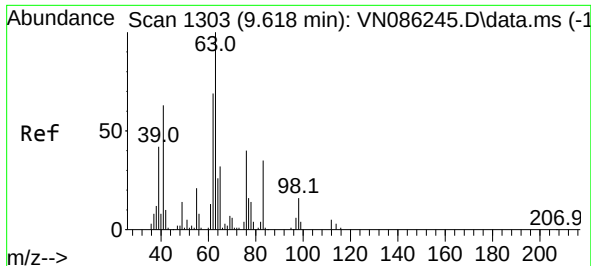
Ion Ratio Lower Upper

83 100

55 76.8 38.5 115.5

98 48.3 24.4 73.2





#39

1,2-Dichloropropane

Concen: 98.606 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086242.D

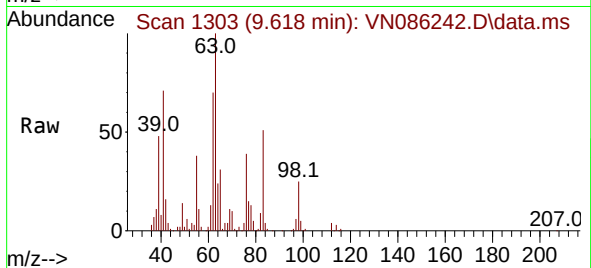
Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 63 Resp: 169660

Ion Ratio Lower Upper

63 100

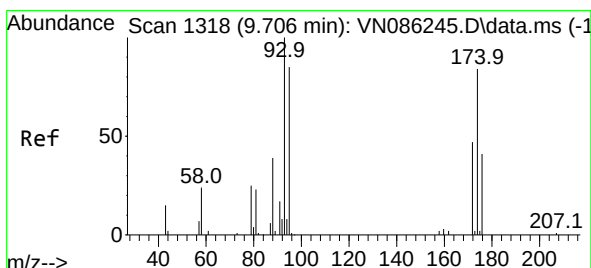
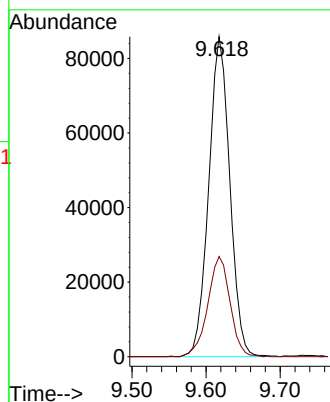
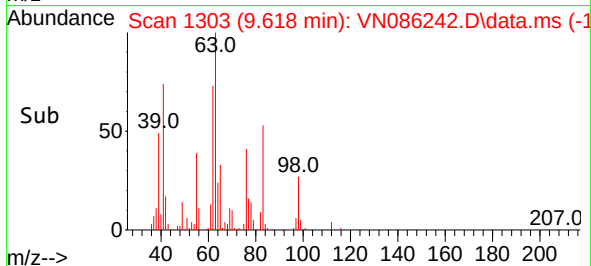
65 31.3 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 94.904 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

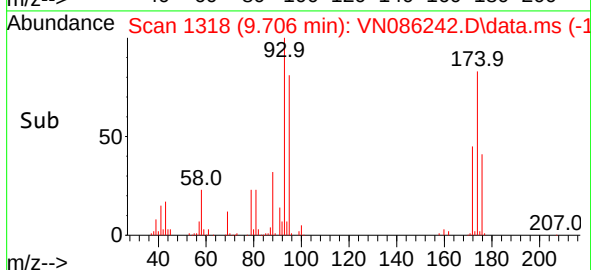
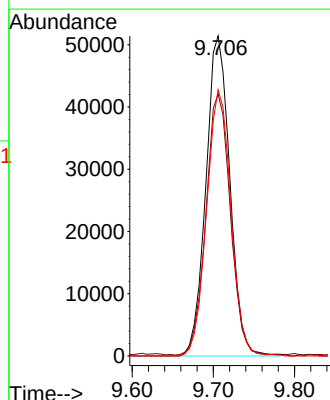
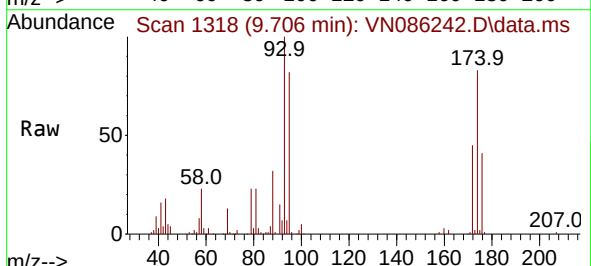
Tgt Ion: 93 Resp: 105464

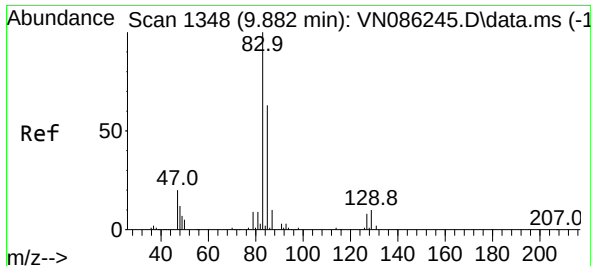
Ion Ratio Lower Upper

93 100

95 83.1 0.0 169.0

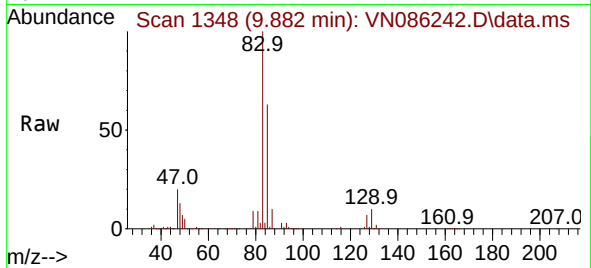
174 83.9 0.0 168.0





#41
Bromodichloromethane
Concen: 94.332 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

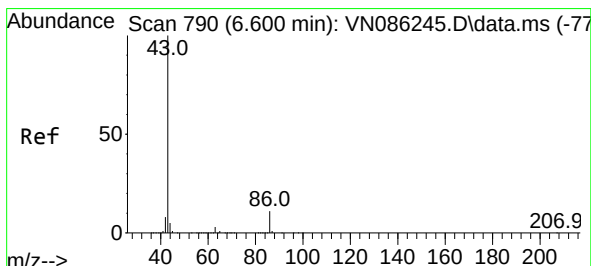
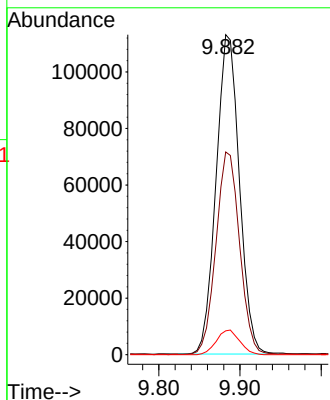
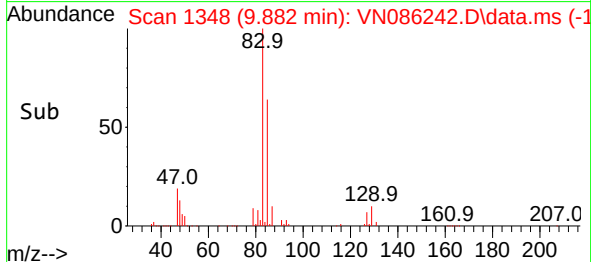
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 83 Resp: 225200
Ion Ratio Lower Upper
83 100
85 63.3 50.2 75.2
127 7.5 6.2 9.4

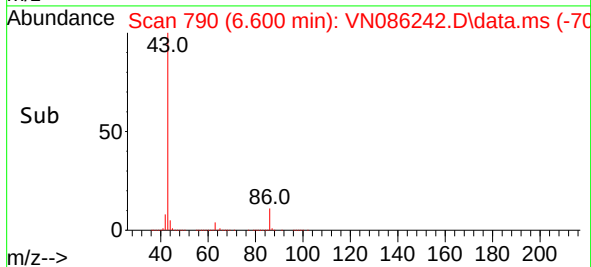
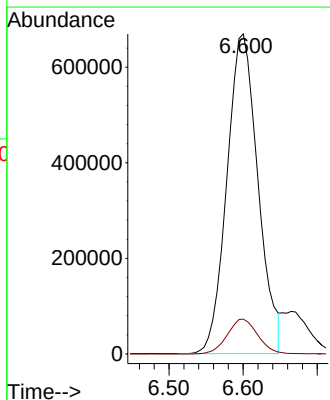
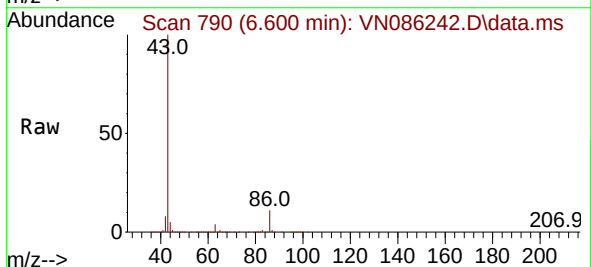
Manual Integrations
APPROVED

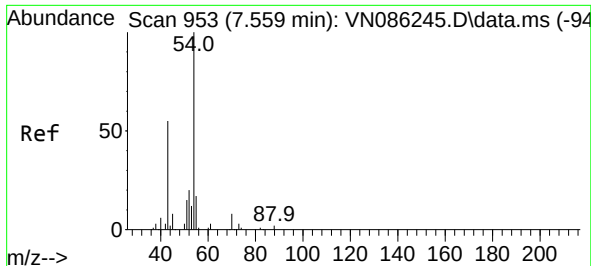
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 475.901 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

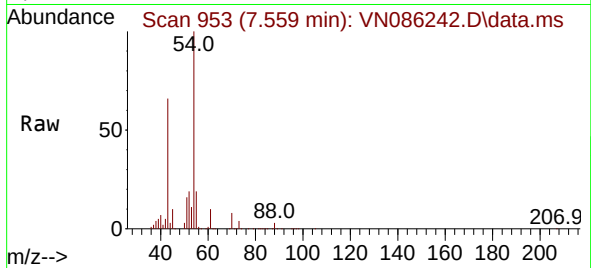
Tgt Ion: 43 Resp: 1951001
Ion Ratio Lower Upper
43 100
86 10.7 8.4 12.6





#43
Ethyl Acetate
Concen: 91.520 ug/l
RT: 7.559 min Scan# 915
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

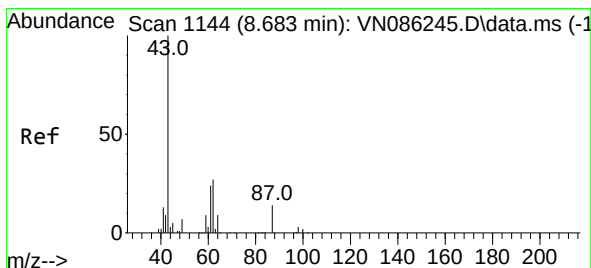
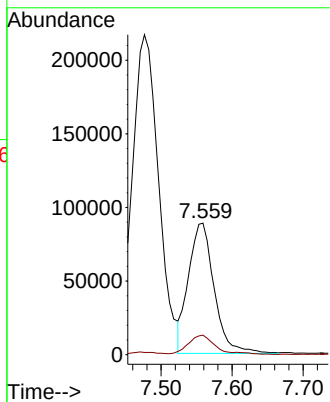
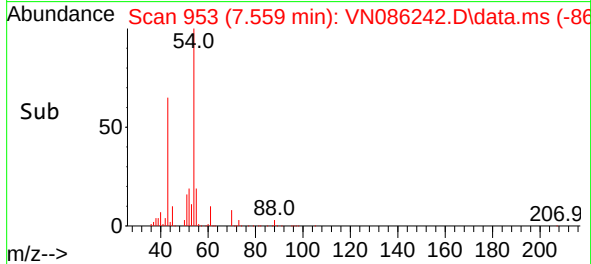
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 222324
Ion Ratio Lower Upper
43 100
45 13.5 11.2 16.8

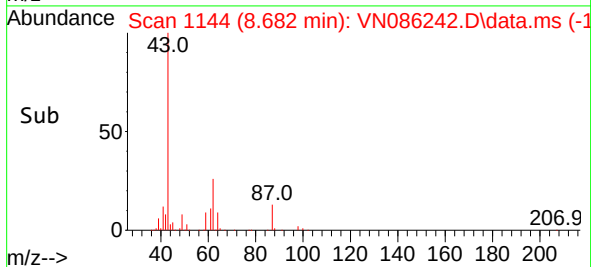
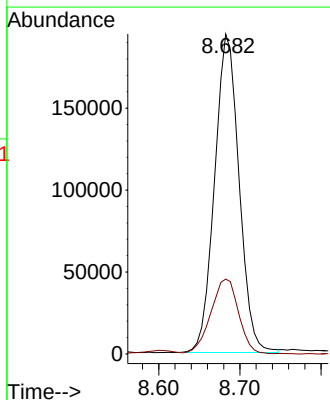
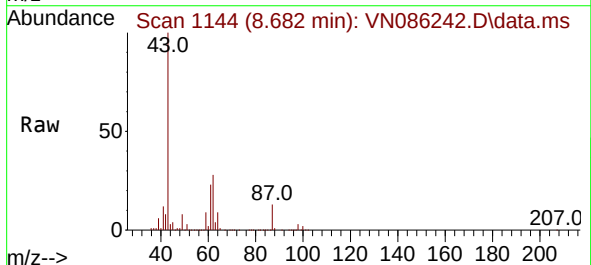
Manual Integrations
APPROVED

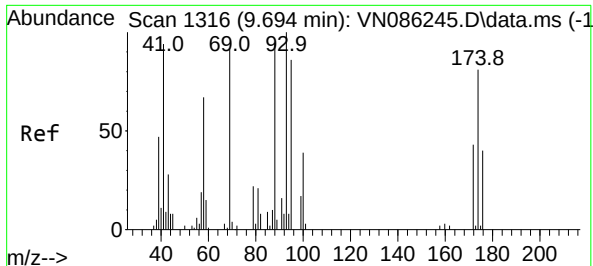
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 90.431 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 407532
Ion Ratio Lower Upper
43 100
61 26.7 20.5 30.7





#45

1,4-Dioxane

Concen: 1836.730 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 65820

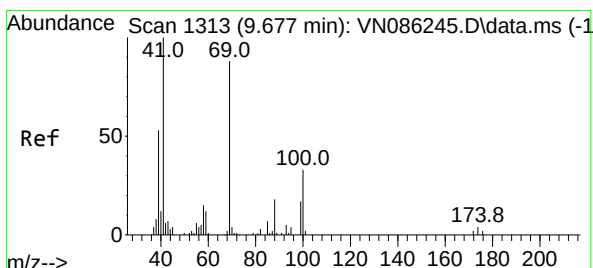
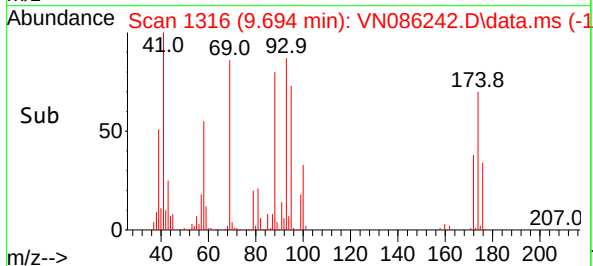
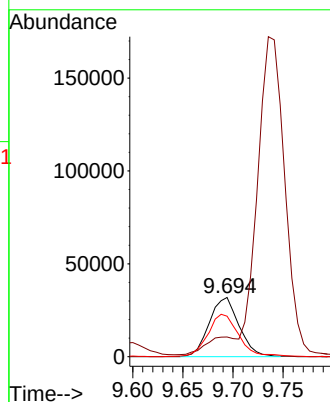
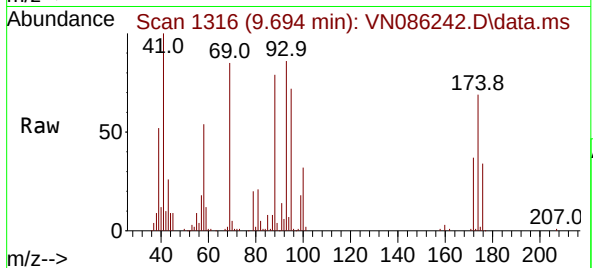
Ion	Ratio	Lower	Upper
88	100		
43	34.0	14.4	21.6
58	73.3	59.8	89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 95.302 ug/l

RT: 9.676 min Scan# 1313

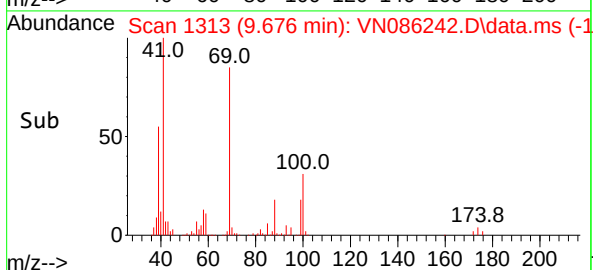
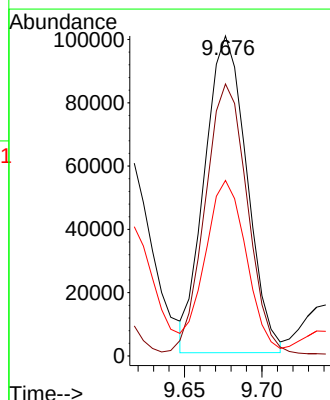
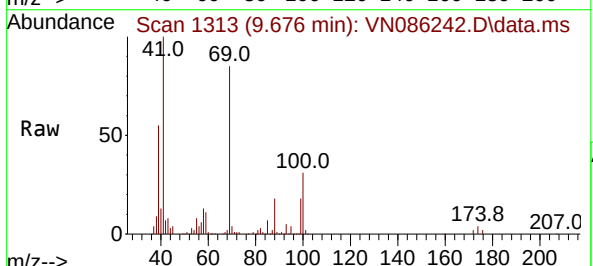
Delta R.T. -0.000 min

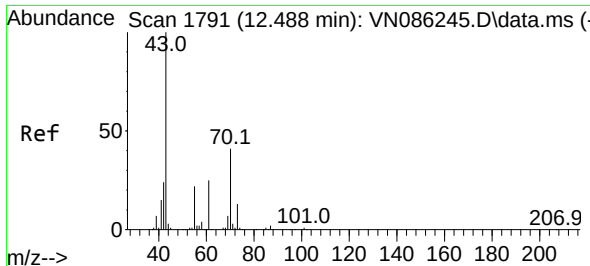
Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion: 41 Resp: 189237

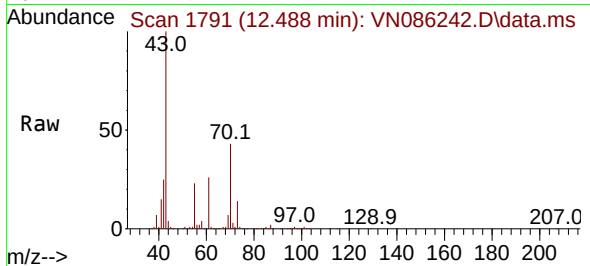
Ion	Ratio	Lower	Upper
41	100		
69	86.0	43.2	129.6
39	54.9	26.4	79.0





#47
n-amy1 Acetate
Concen: 92.953 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

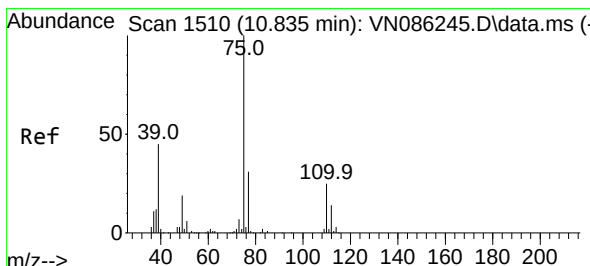
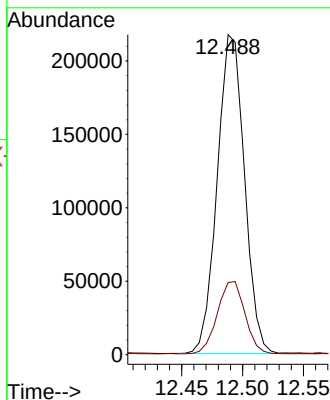
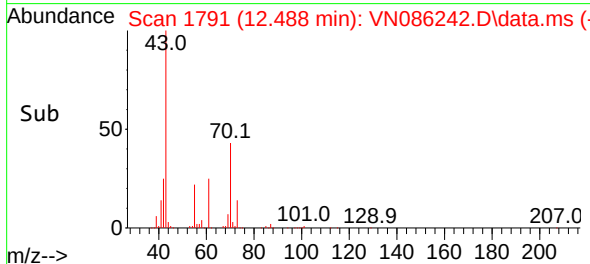
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 33846
Ion Ratio Lower Upper
43 100
55 23.1 19.0 28.4

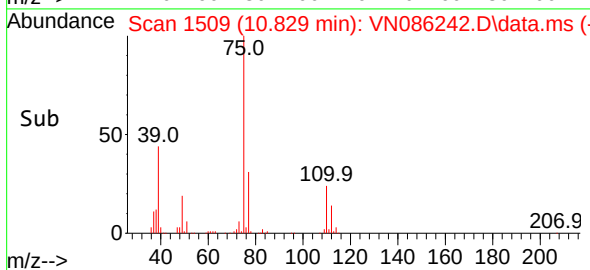
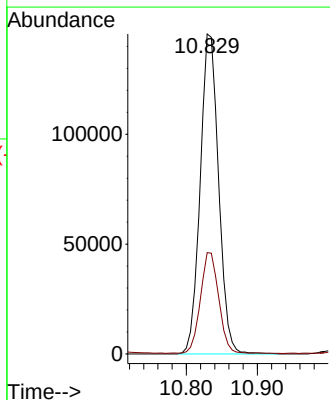
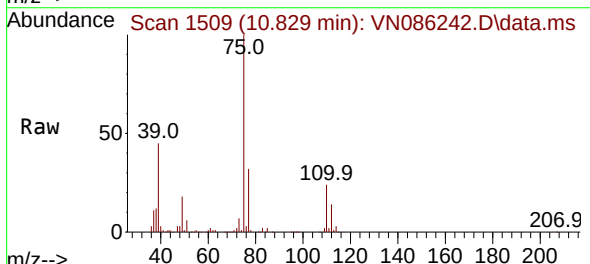
Manual Integrations
APPROVED

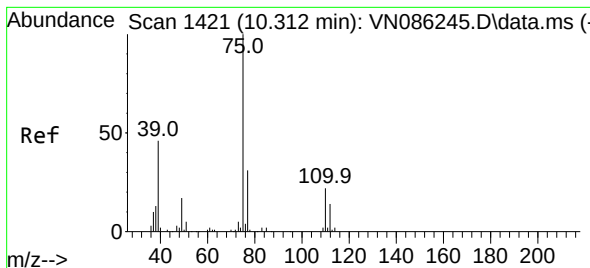
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#48
t-1,3-Dichloropropene
Concen: 97.471 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

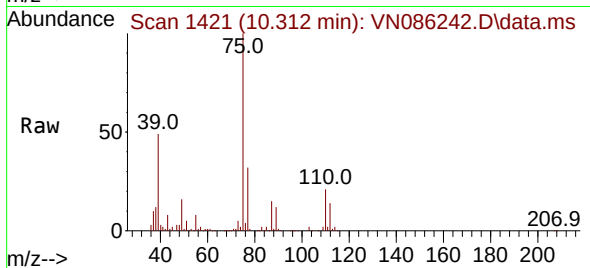
Tgt Ion: 75 Resp: 263069
Ion Ratio Lower Upper
75 100
77 31.4 25.1 37.7





#49
cis-1,3-Dichloropropene
Concen: 98.600 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

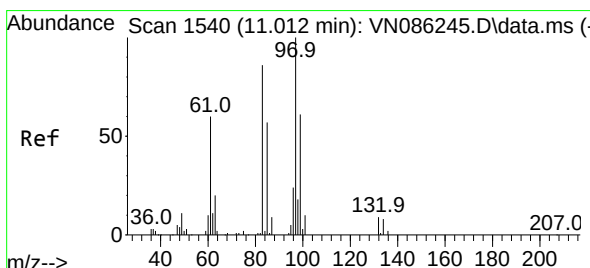
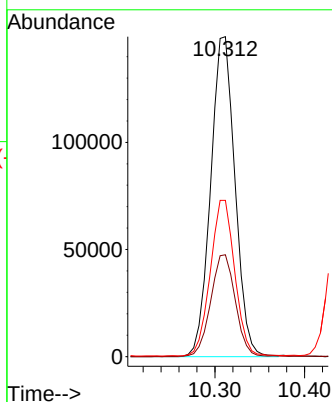
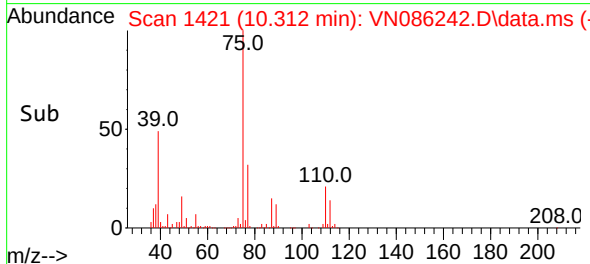
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 281650
Ion Ratio Lower Upper
75 100
77 31.7 25.0 37.4
39 48.6 36.7 55.1

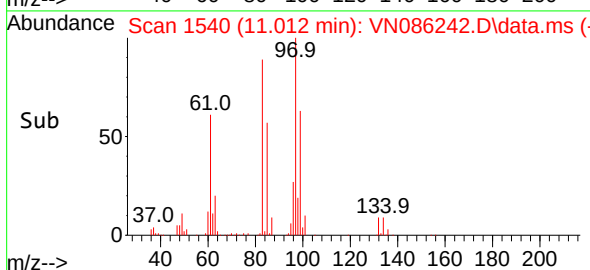
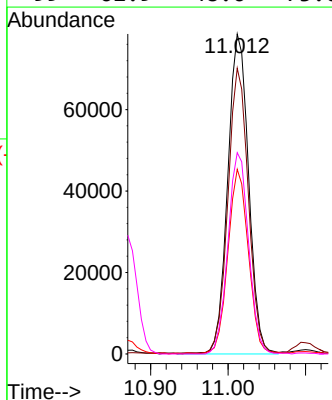
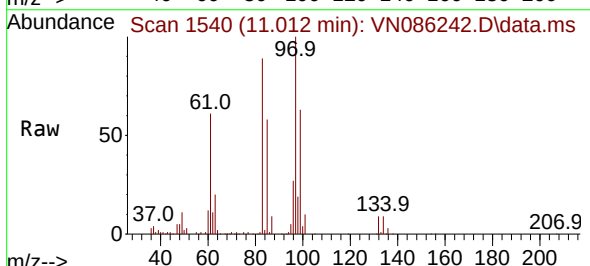
Manual Integrations
APPROVED

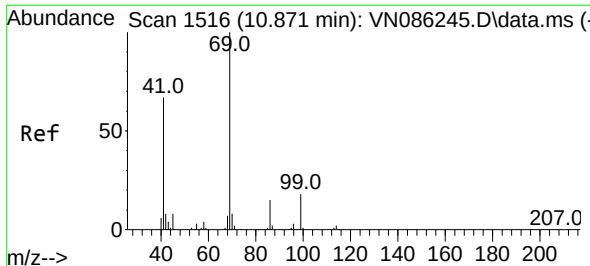
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#50
1,1,2-Trichloroethane
Concen: 94.534 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

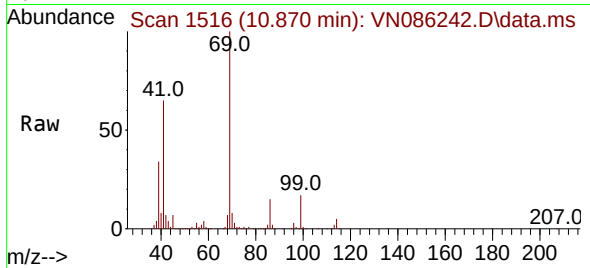
Tgt Ion: 97 Resp: 147343
Ion Ratio Lower Upper
97 100
83 89.0 68.6 103.0
85 57.5 45.9 68.9
99 62.9 48.6 73.0





#51
Ethyl methacrylate
Concen: 95.629 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

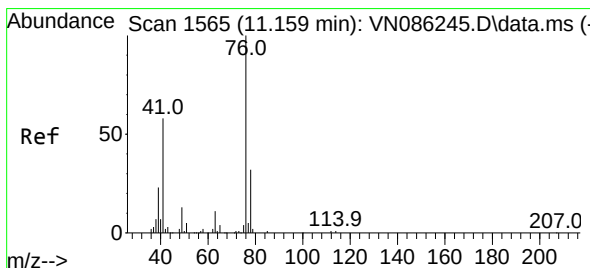
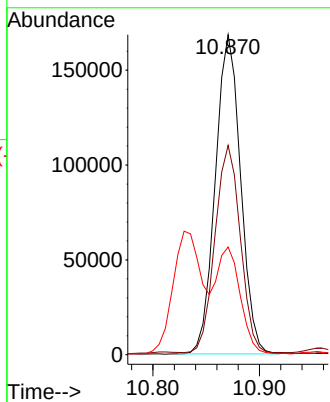
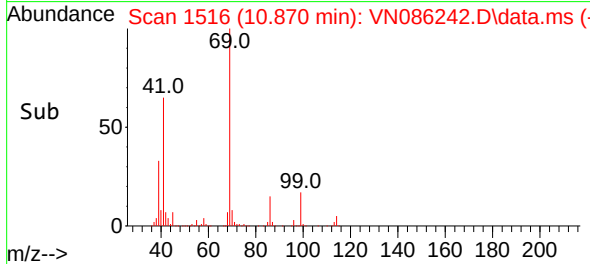
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 69 Resp: 276983
Ion Ratio Lower Upper
69 100
41 64.9 33.6 100.6
39 33.4 17.8 53.4

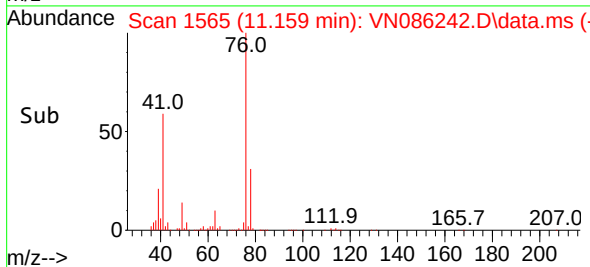
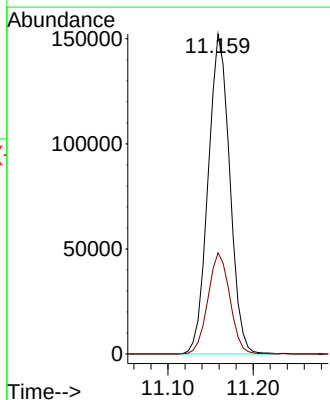
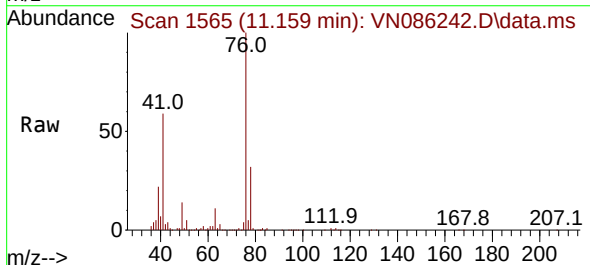
Manual Integrations
APPROVED

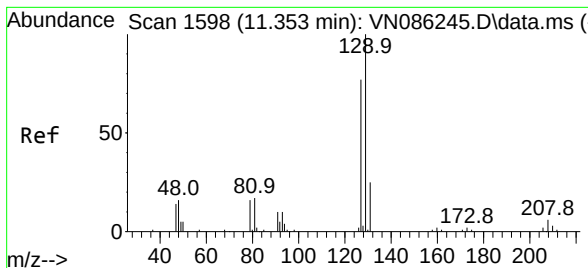
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 96.673 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

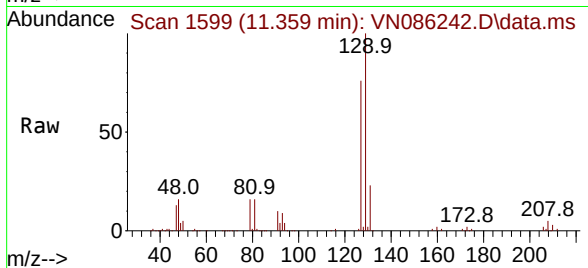
Tgt Ion: 76 Resp: 268559
Ion Ratio Lower Upper
76 100
78 31.9 0.0 64.6





#53
Dibromochloromethane
Concen: 96.562 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

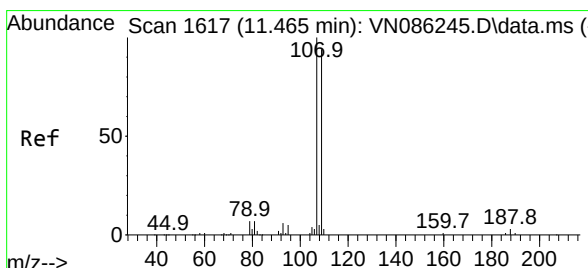
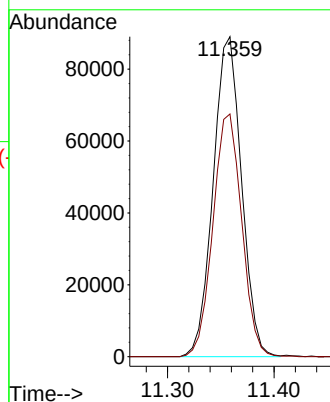
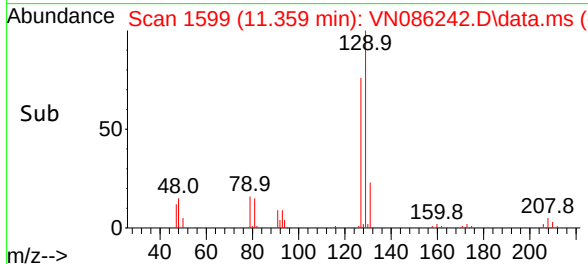
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



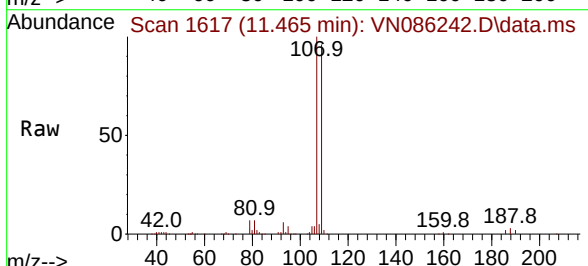
Tgt Ion:129 Resp: 164620
Ion Ratio Lower Upper
129 100
127 76.8 38.5 115.5

Manual Integrations
APPROVED

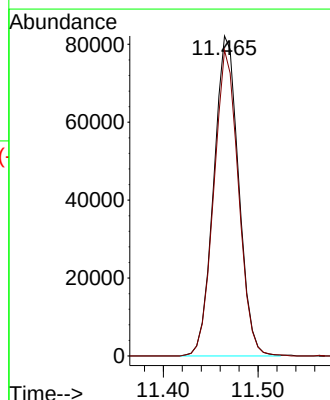
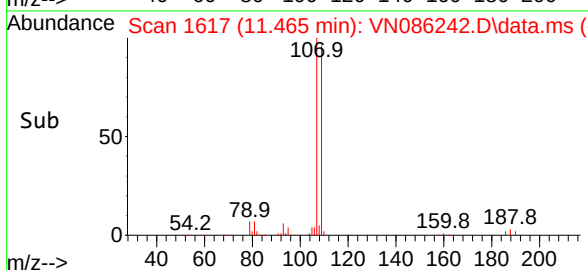
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

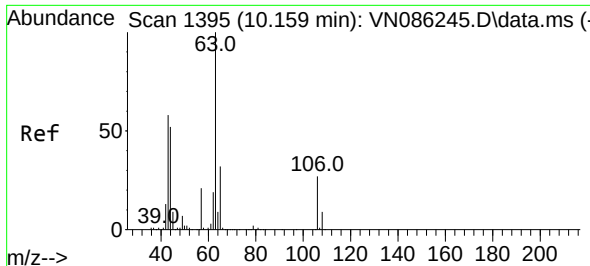


#54
1,2-Dibromoethane
Concen: 95.239 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



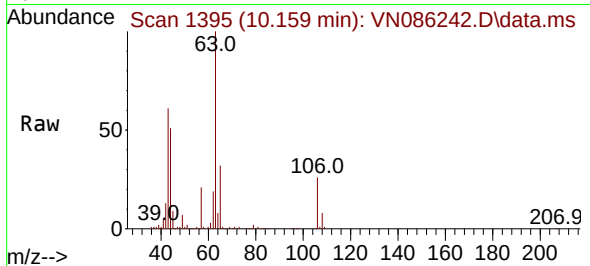
Tgt Ion:107 Resp: 149844
Ion Ratio Lower Upper
107 100
109 94.5 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 99.826 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

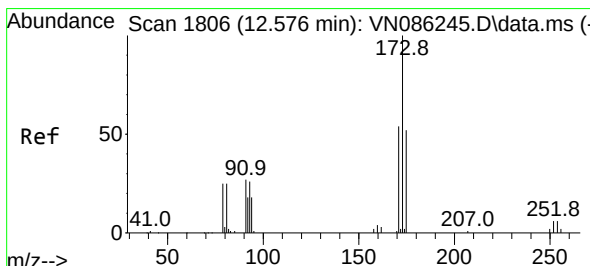
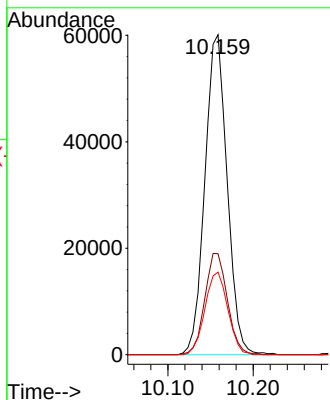
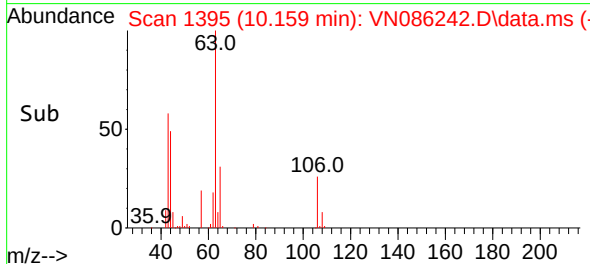
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 63 Resp: 10925
Ion Ratio Lower Upper
63 100
65 32.1 25.8 38.8
106 26.4 21.8 32.8

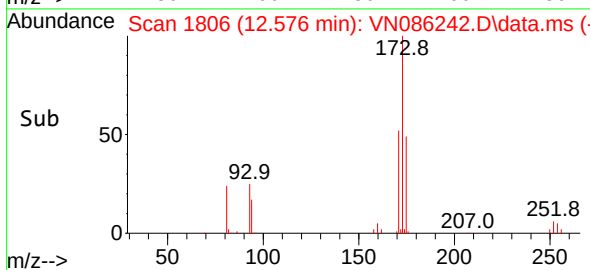
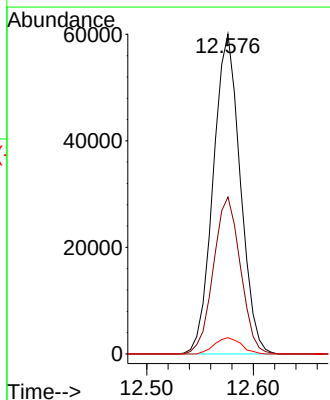
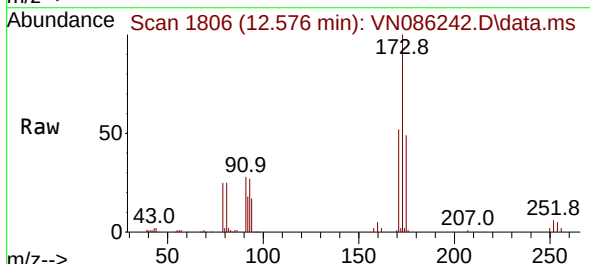
Manual Integrations
APPROVED

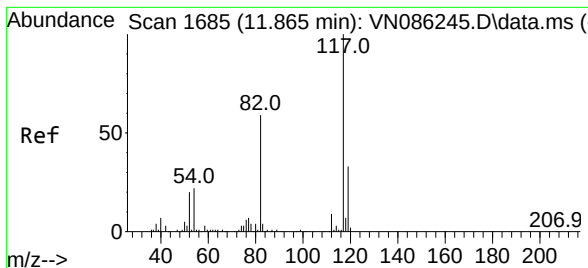
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 94.994 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

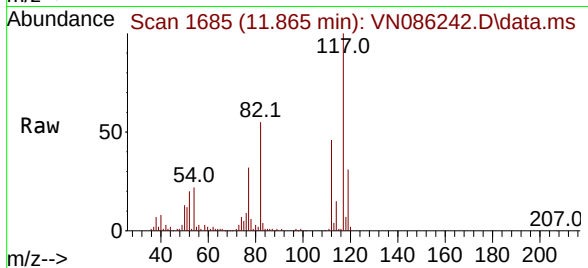
Tgt Ion:173 Resp: 105955
Ion Ratio Lower Upper
173 100
175 48.9 38.2 57.4
254 5.0 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

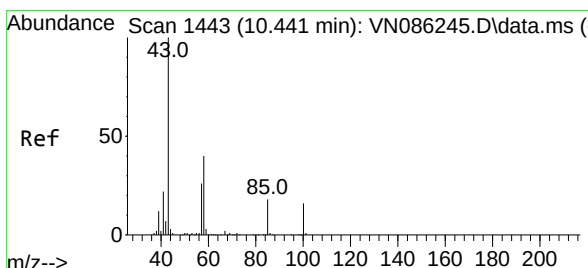
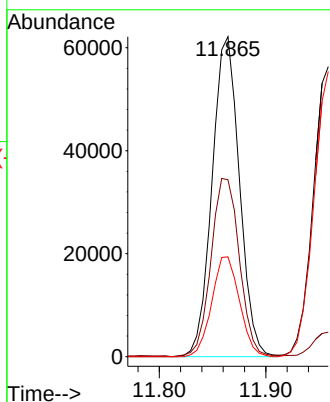
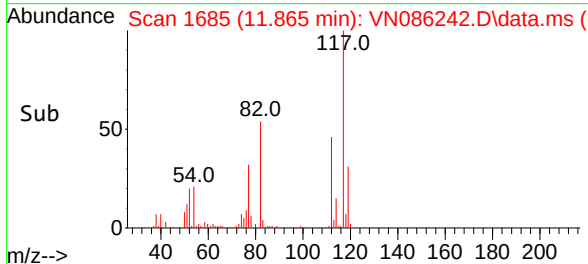
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 117 Resp: 110874
Ion Ratio Lower Upper
117 100
82 58.0 47.3 70.9
119 31.7 25.9 38.9

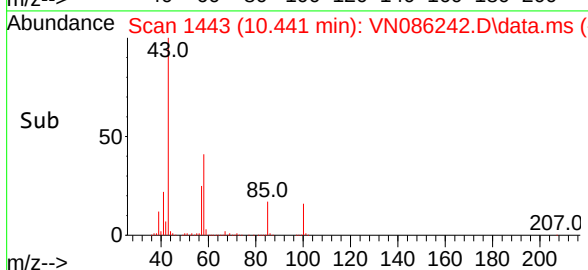
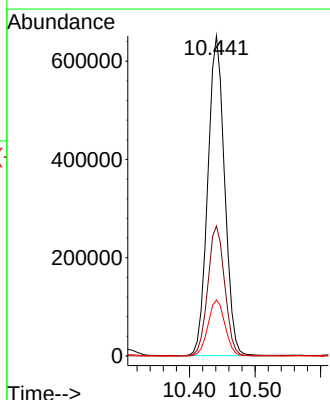
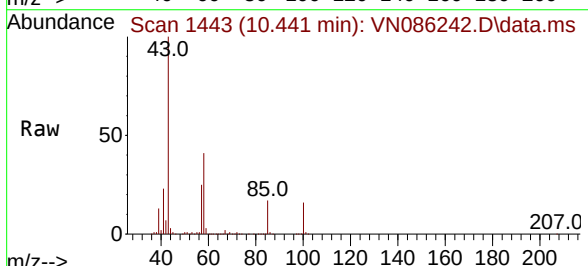
Manual Integrations
APPROVED

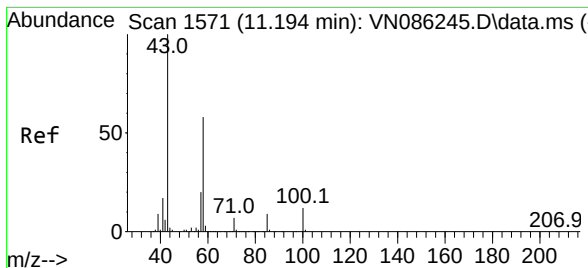
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 460.173 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

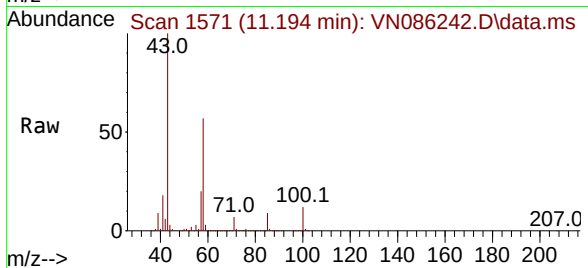
Tgt Ion: 43 Resp: 1157830
Ion Ratio Lower Upper
43 100
58 40.9 32.5 48.7
85 17.7 14.4 21.6





#59
2-Hexanone
Concen: 458.017 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

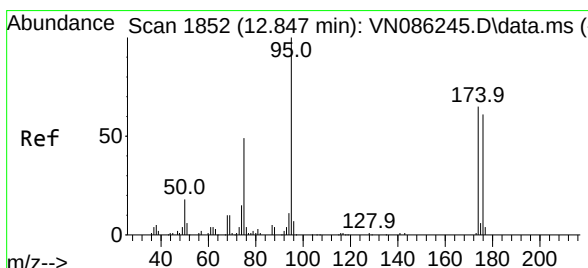
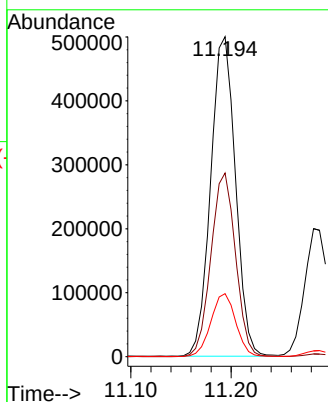
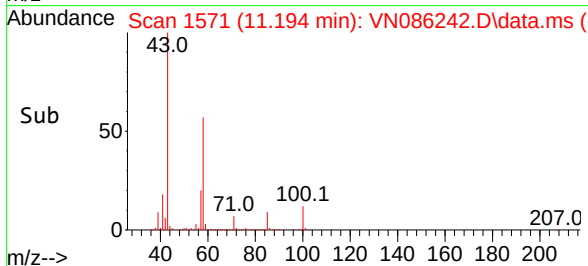
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



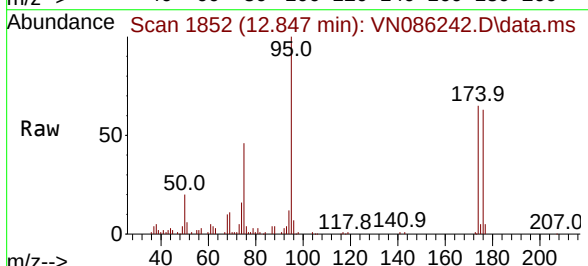
Tgt Ion: 43 Resp: 85811
Ion Ratio Lower Upper
43 100
58 57.0 45.3 67.9
57 19.7 15.8 23.6

Manual Integrations
APPROVED

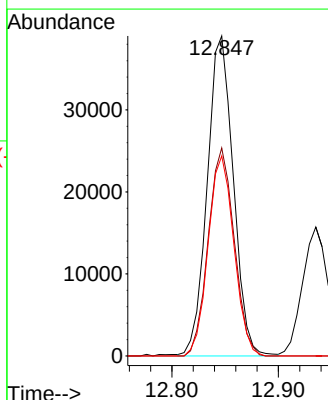
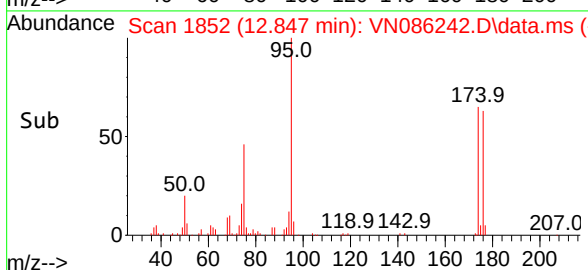
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

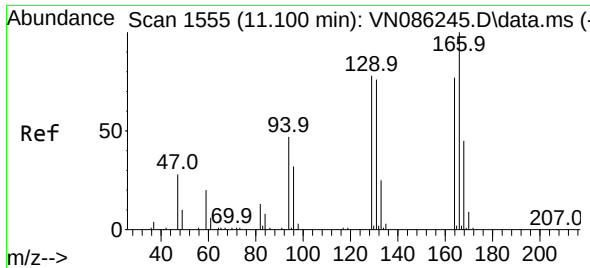


#60
4-Bromofluorobenzene
Concen: 30.135 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



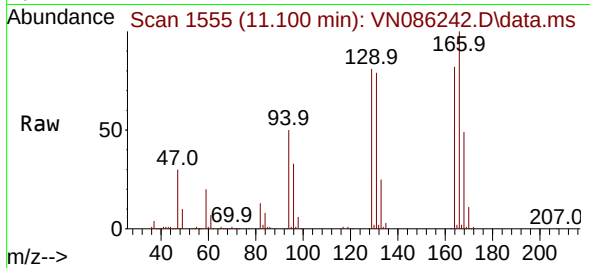
Tgt Ion: 95 Resp: 66521
Ion Ratio Lower Upper
95 100
174 64.5 52.7 79.1
176 61.5 49.8 74.8





#61
Tetrachloroethene
Concen: 97.556 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

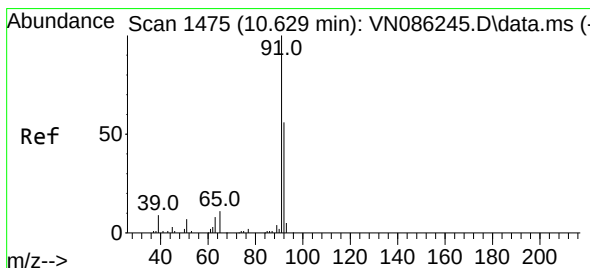
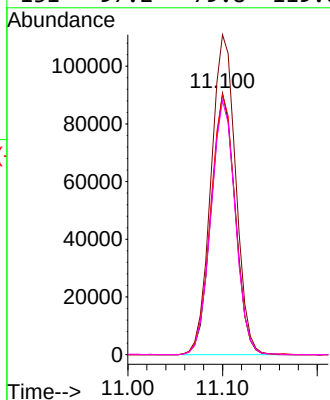
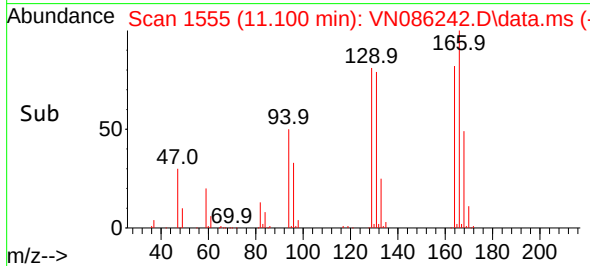
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:164 Resp: 159732
Ion Ratio Lower Upper
164 100
166 122.4 104.5 156.7
129 99.7 81.7 122.5
131 97.2 79.8 119.6

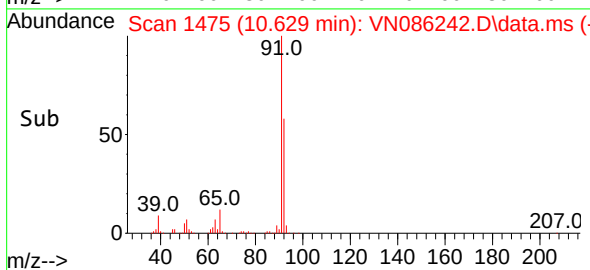
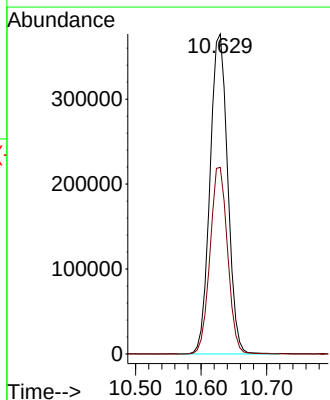
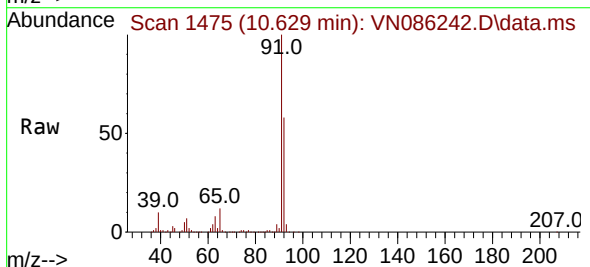
Manual Integrations
APPROVED

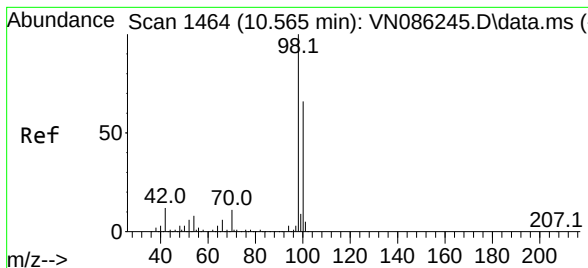
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 94.810 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

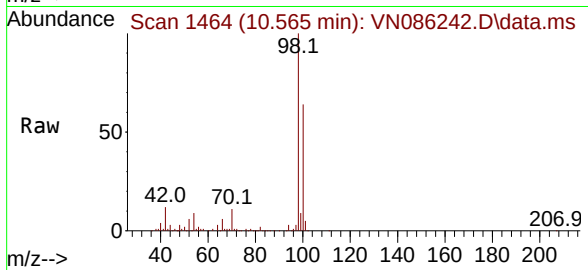
Tgt Ion: 91 Resp: 705070
Ion Ratio Lower Upper
91 100
92 57.9 46.8 70.2





#63
Toluene-d8
Concen: 29.627 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

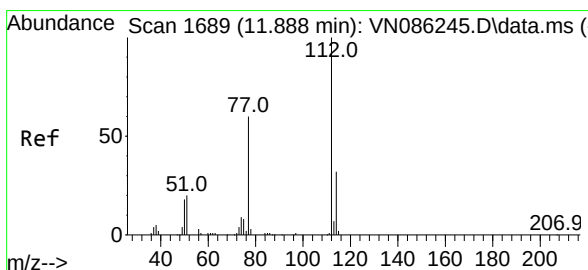
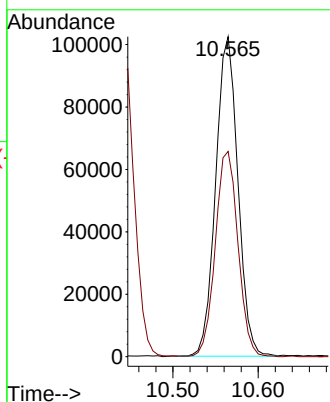
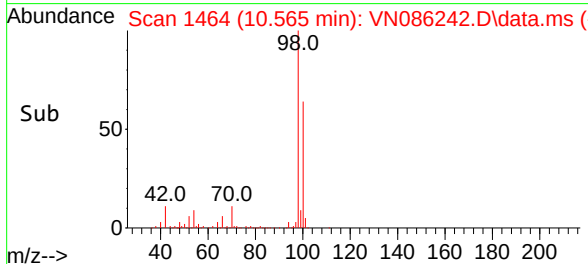
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 98 Resp: 185448
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5

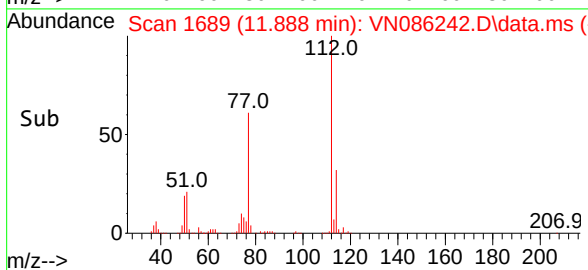
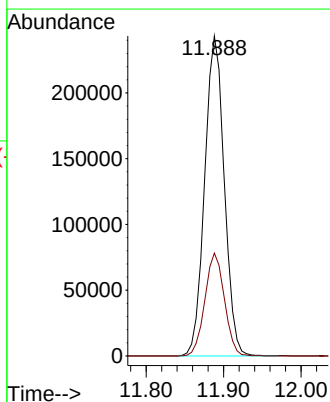
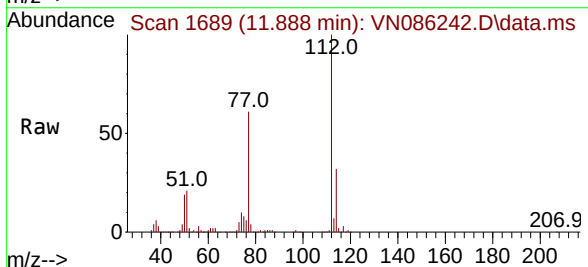
Manual Integrations
APPROVED

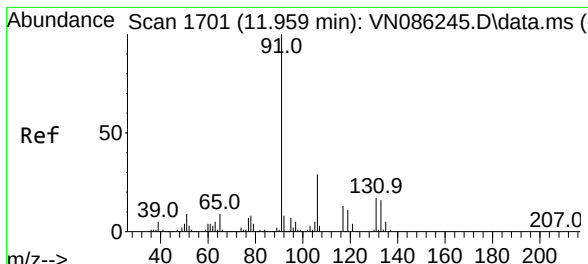
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 94.040 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:112 Resp: 427265
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6



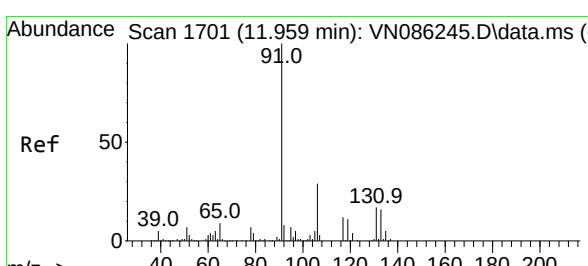
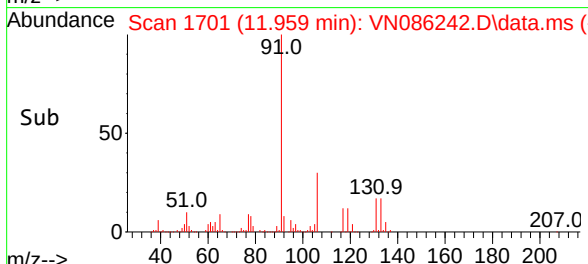
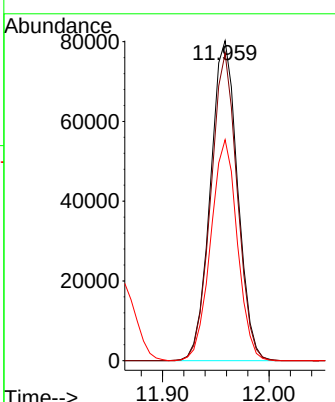
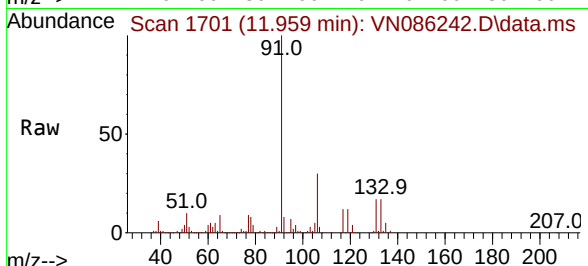


#65
 1,1,1,2-Tetrachloroethane
 Concen: 94.745 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Instrument : MSVOA_N
 ClientSampleId : VSTDICC100

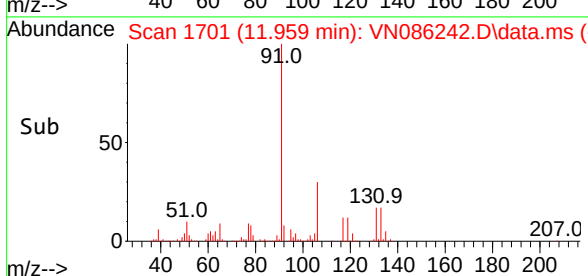
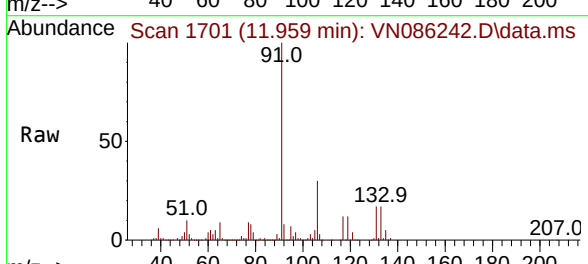
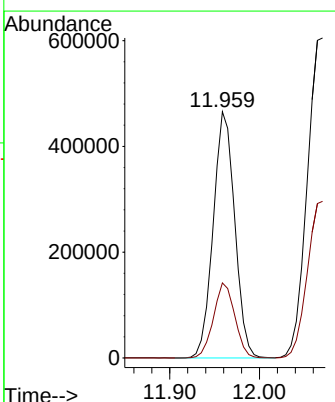
Tgt Ion:	131	Resp:	142064
Ion Ratio	Lower	Upper	
131	100		
133	93.5	0.0	190.4
119	67.7	0.0	135.6

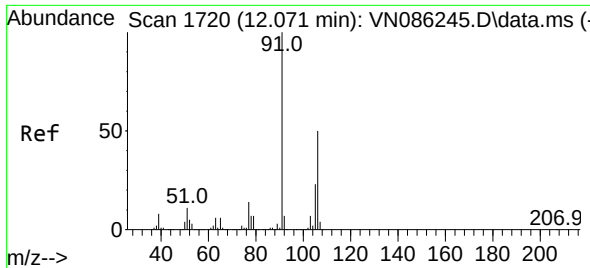
Manual Integrations
APPROVED
 Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#66
 Ethyl Benzene
 Concen: 94.050 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

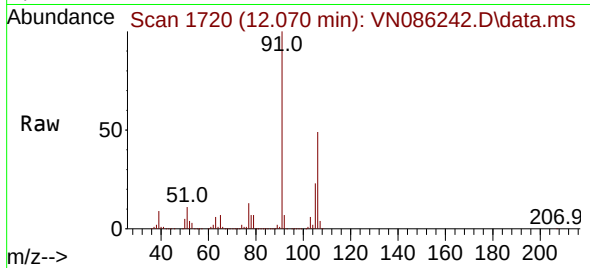
Tgt Ion:	91	Resp:	775657
Ion Ratio	Lower	Upper	
91	100		
106	30.5	23.4	35.0





#67
m/p-Xylenes
Concen: 191.616 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

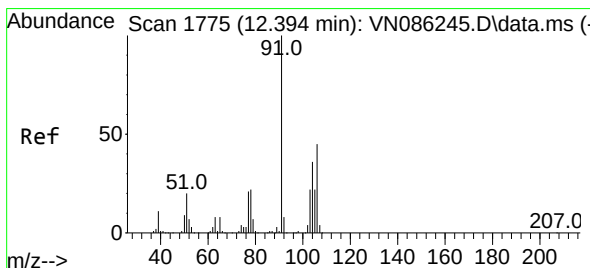
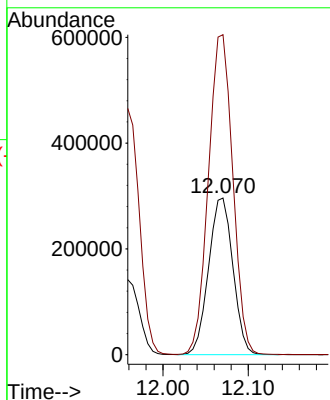
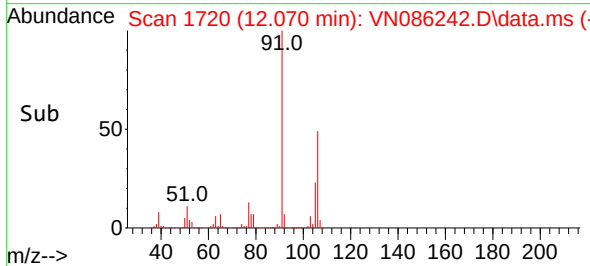
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:106 Resp: 587623
Ion Ratio Lower Upper
106 100
91 204.2 164.5 246.7

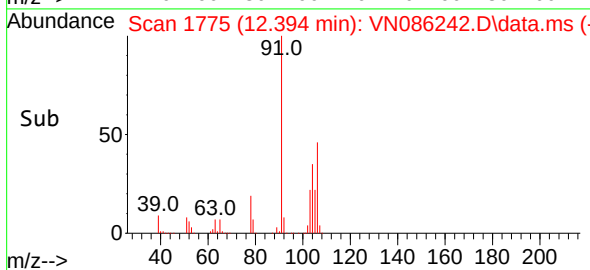
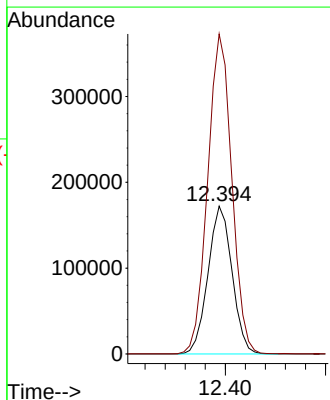
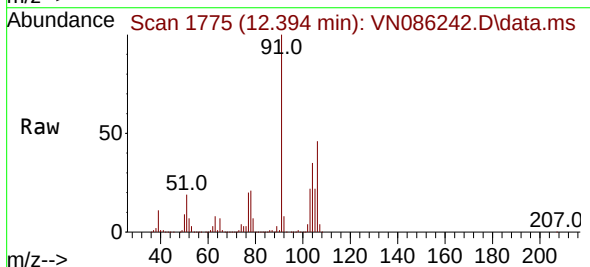
Manual Integrations
APPROVED

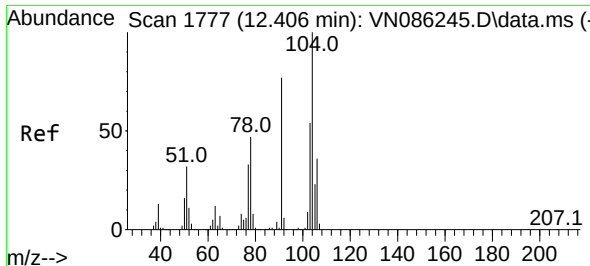
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 95.205 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

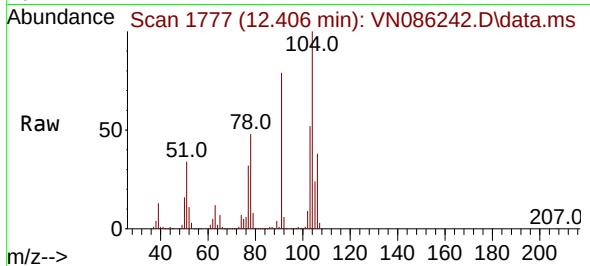
Tgt Ion:106 Resp: 287174
Ion Ratio Lower Upper
106 100
91 216.6 109.8 329.4





#69
Styrene
Concen: 95.537 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

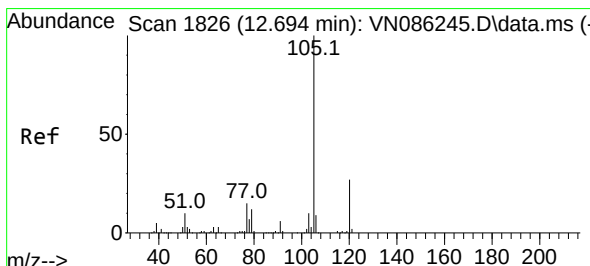
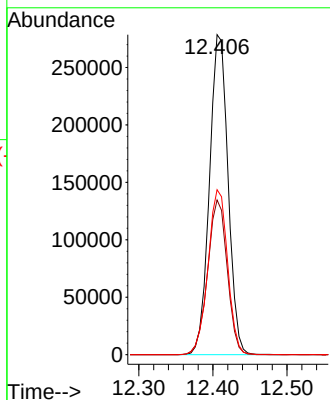
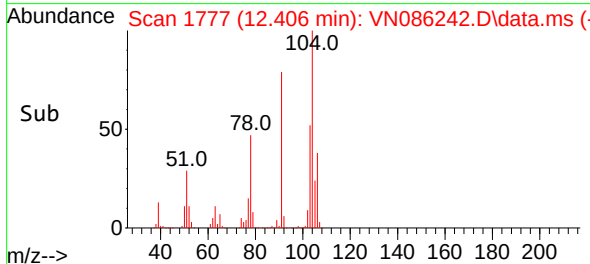
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



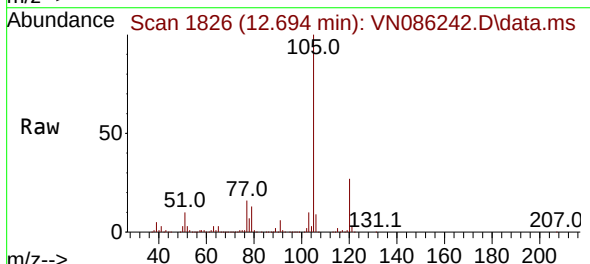
Tgt Ion:104 Resp: 486004
Ion Ratio Lower Upper
104 100
78 50.9 41.4 62.0
103 54.3 44.2 66.4

Manual Integrations
APPROVED

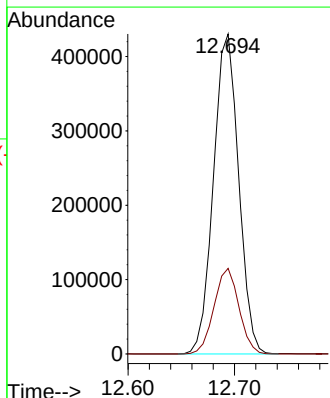
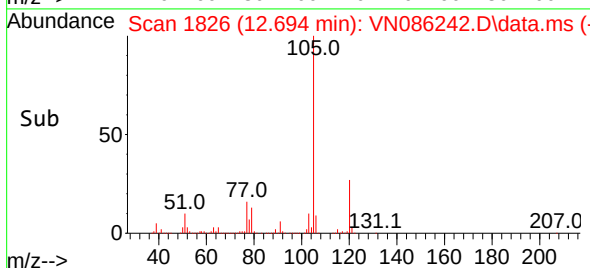
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

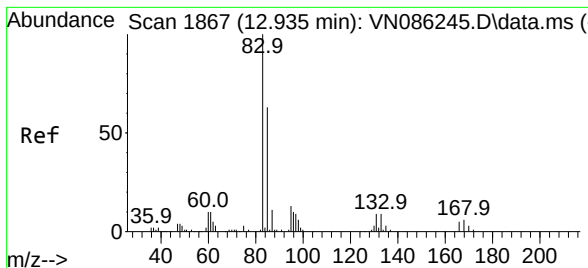


#70
Isopropylbenzene
Concen: 94.920 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



Tgt Ion:105 Resp: 705950
Ion Ratio Lower Upper
105 100
120 26.4 18.3 34.1





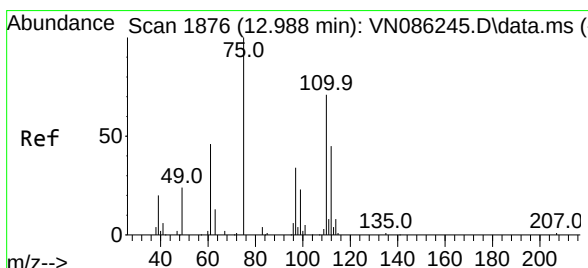
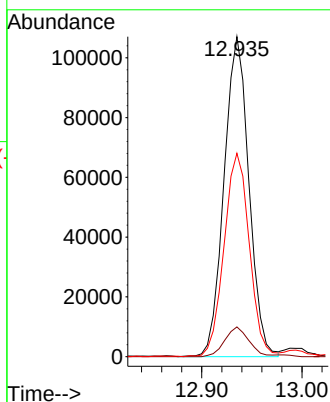
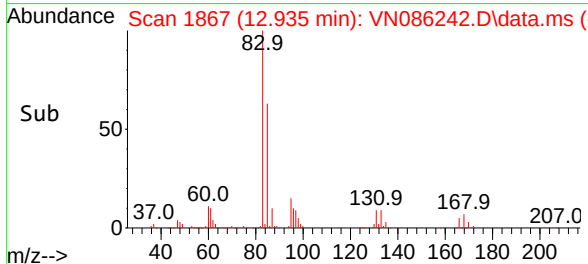
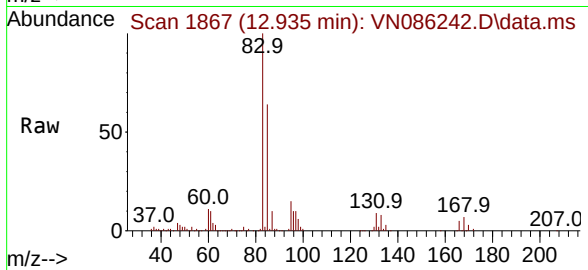
#71
1,1,2,2-Tetrachloroethane
Concen: 87.222 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 83 Resp: 18464
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 64.2 32.3 96.8

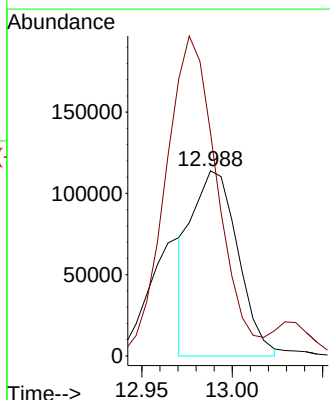
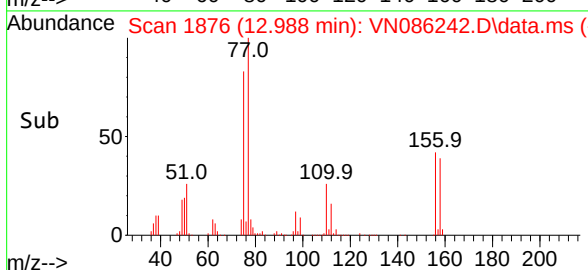
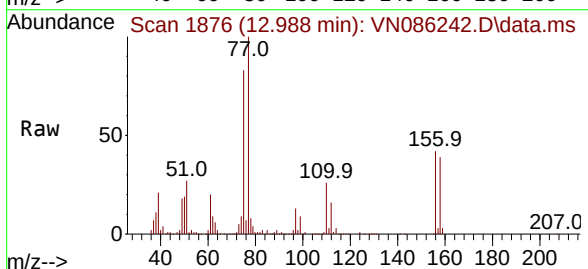
Manual Integrations
APPROVED

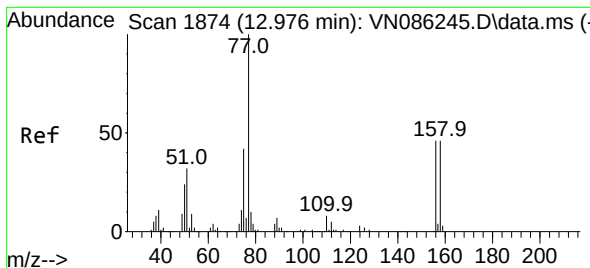
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 67.831 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 75 Resp: 203289
Ion Ratio Lower Upper
75 100
77 193.6 0.0 380.0





#73

Bromobenzene

Concen: 94.613 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

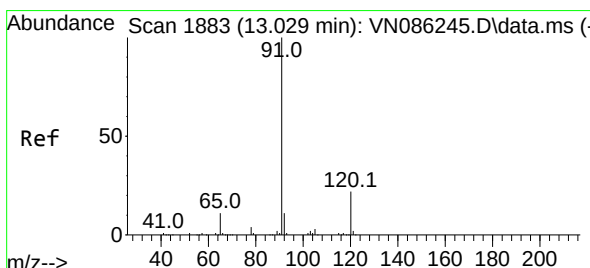
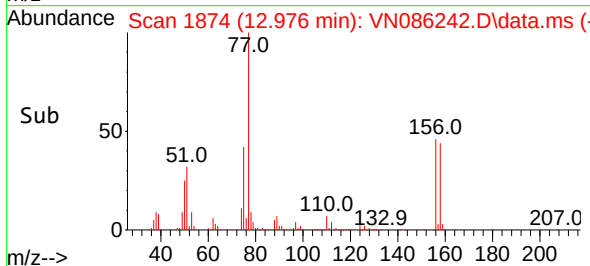
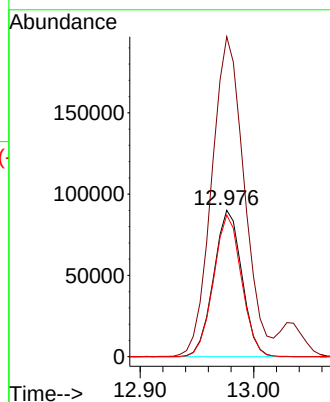
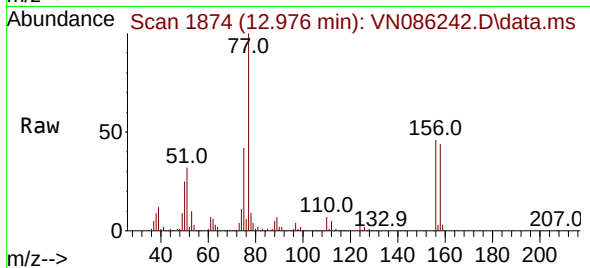
Tgt Ion:	156	Resp:	155884
Ion Ratio	Lower	Upper	
156	100		
77	252.4	0.0	505.2
158	95.6	0.0	195.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#74

n-propylbenzene

Concen: 96.989 ug/l

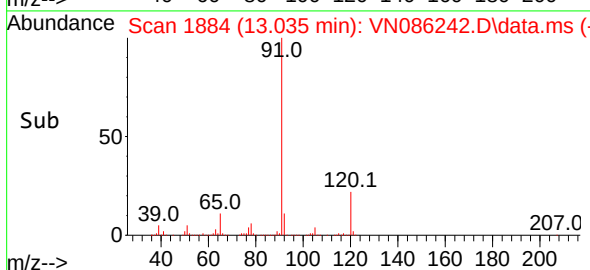
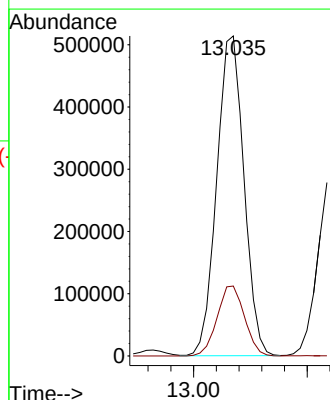
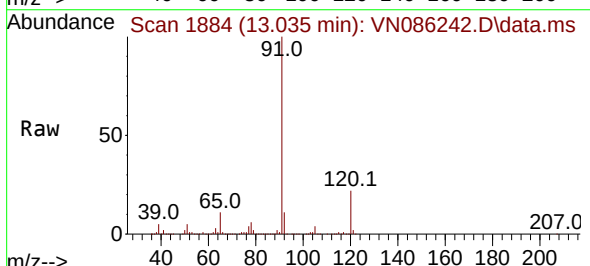
RT: 13.035 min Scan# 1884

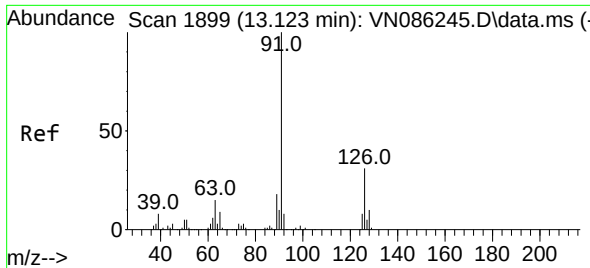
Delta R.T. 0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion:	91	Resp:	854262
Ion Ratio	Lower	Upper	
91	100		
120	22.0	0.0	44.0





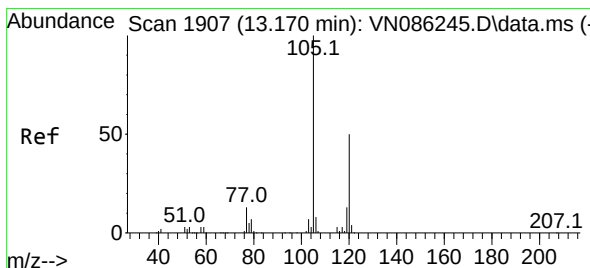
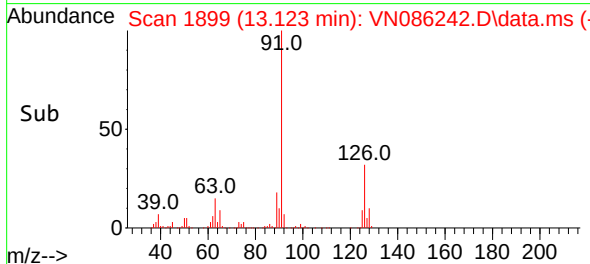
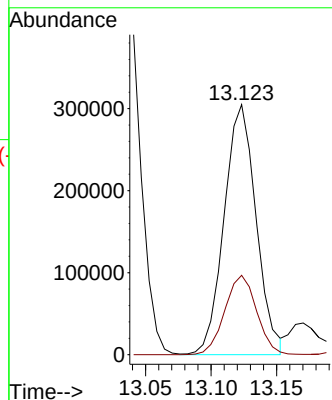
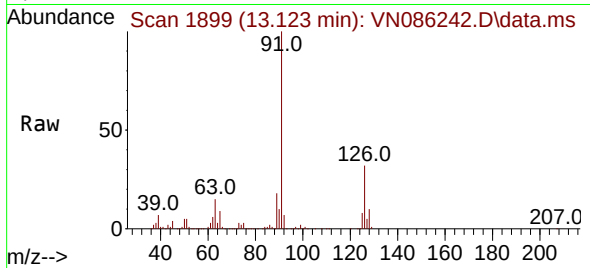
#75
2-Chlorotoluene
Concen: 93.916 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 518410
Ion Ratio Lower Upper
91 100
126 31.6 0.0 63.4

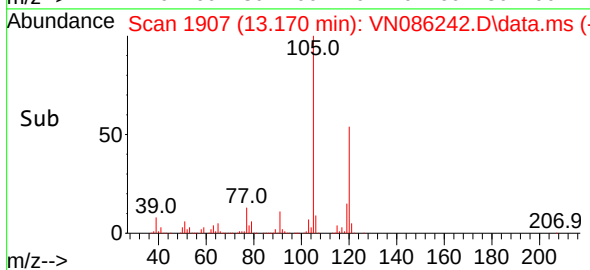
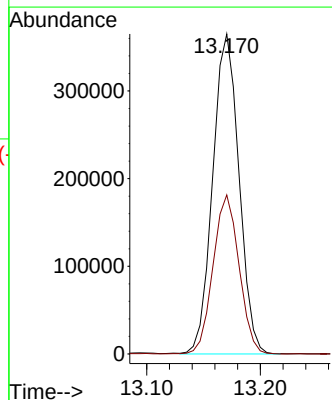
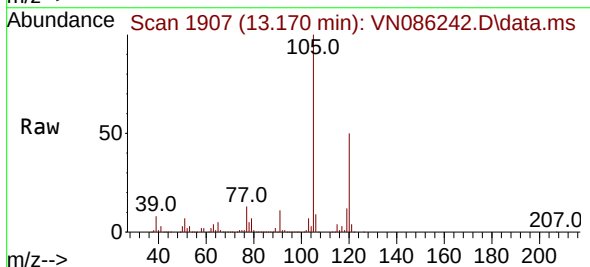
Manual Integrations
APPROVED

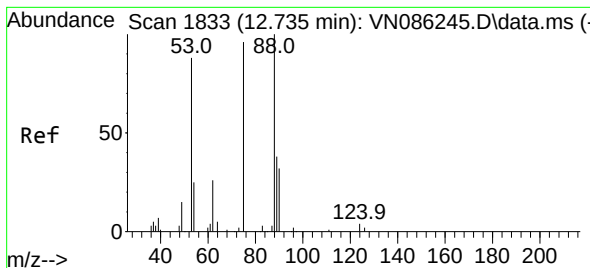
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 95.970 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:105 Resp: 586325
Ion Ratio Lower Upper
105 100
120 49.1 0.0 98.0





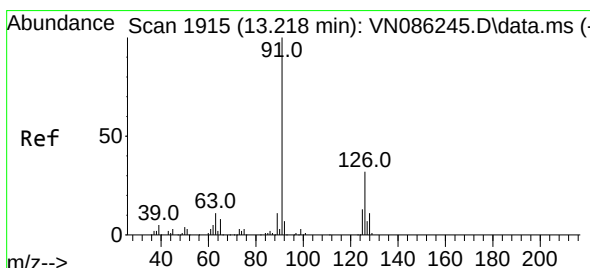
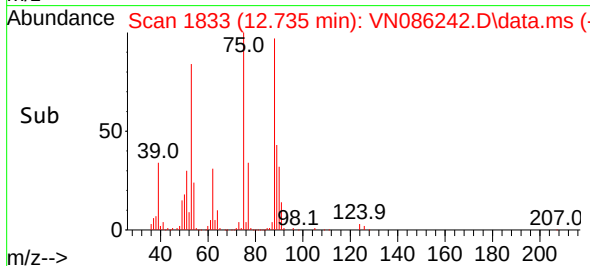
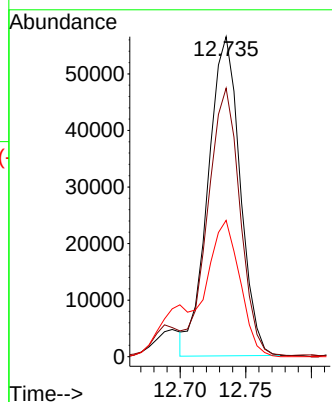
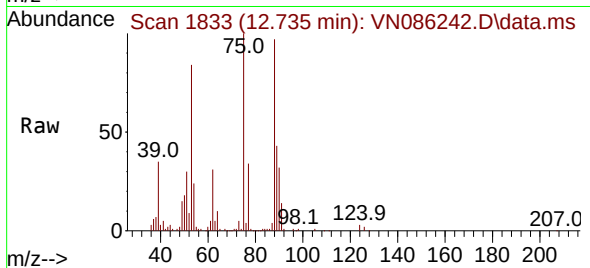
#77
t-1,4-Dichloro-2-butene
Concen: 94.184 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 95690
Ion Ratio Lower Upper
75 100
53 83.6 46.4 139.2
89 42.8 22.5 67.5

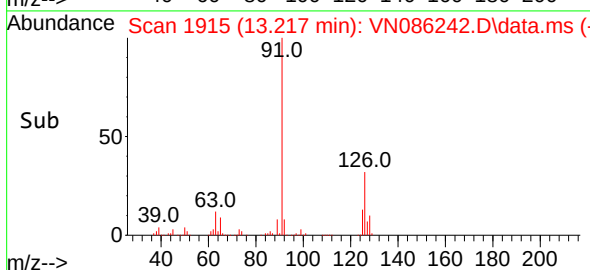
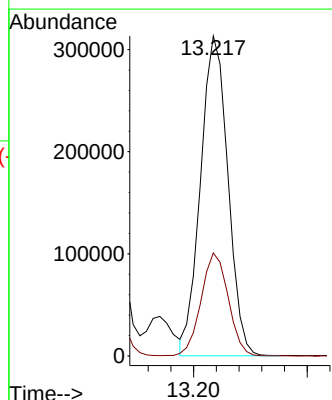
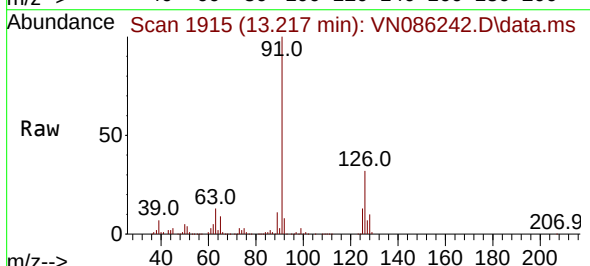
Manual Integrations
APPROVED

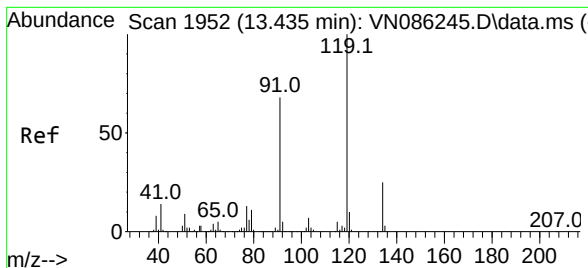
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 95.194 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 91 Resp: 524792
Ion Ratio Lower Upper
91 100
126 32.0 0.0 63.2





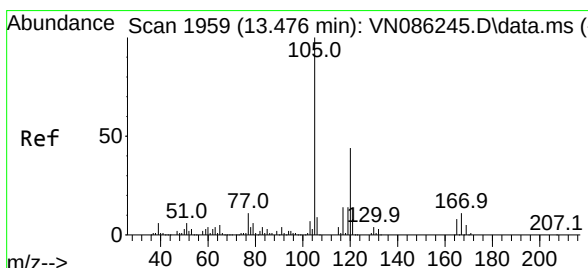
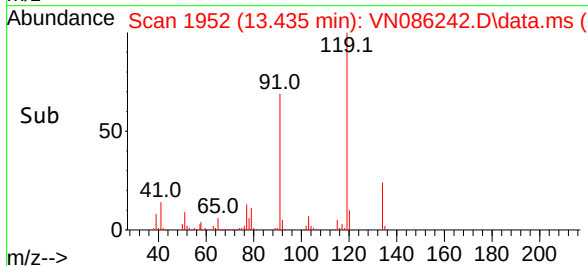
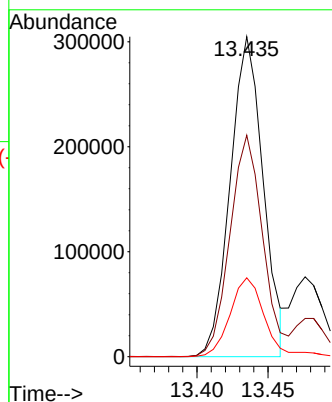
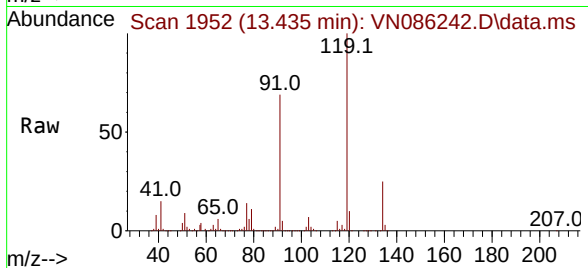
#79
tert-butylbenzene
Concen: 93.090 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 492114
Ion Ratio Lower Upper
119 100
91 69.3 0.0 136.6
134 24.8 0.0 49.4

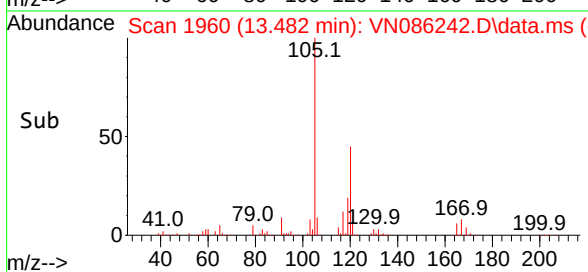
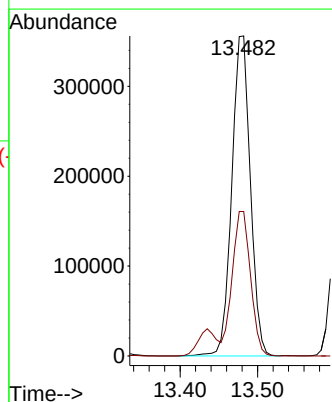
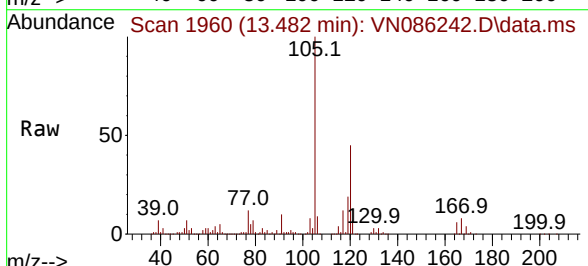
Manual Integrations
APPROVED

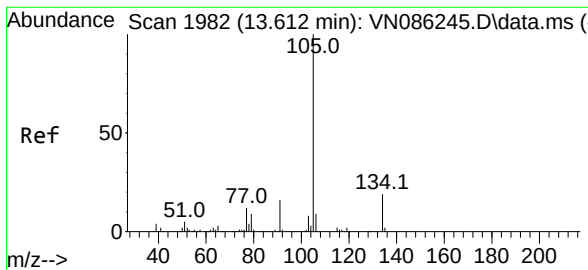
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#80
1,2,4-Trimethylbenzene
Concen: 95.880 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:105 Resp: 593988
Ion Ratio Lower Upper
105 100
120 44.6 0.0 91.0





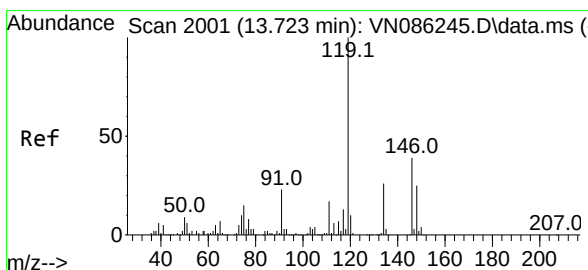
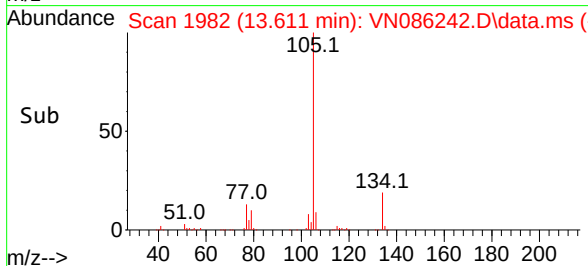
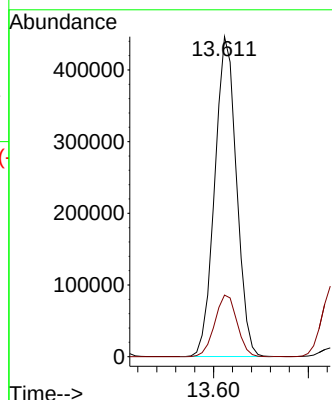
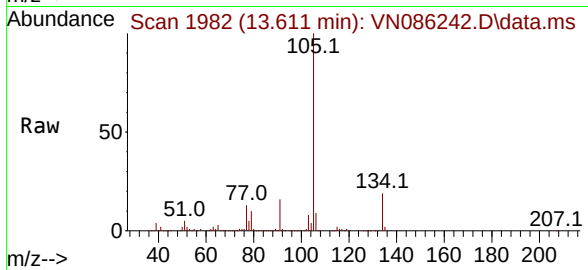
#81
 sec-Butylbenzene
 Concen: 96.423 ug/l
 RT: 13.611 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion:105 Resp: 71103
 Ion Ratio Lower Upper
 105 100
 134 19.8 0.0 38.6

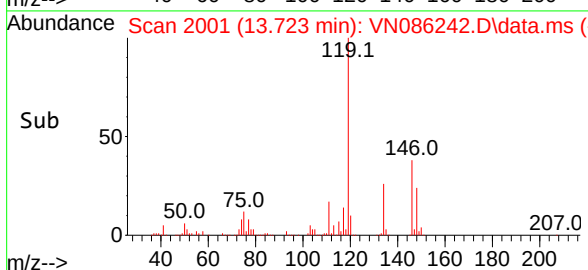
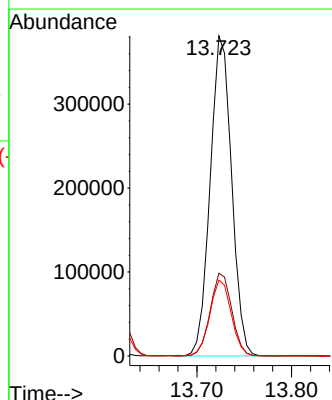
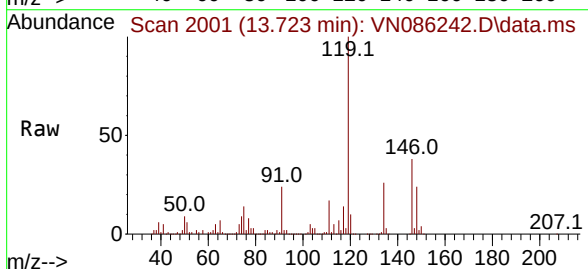
Manual Integrations
 APPROVED

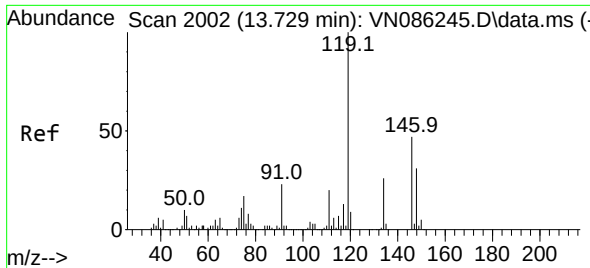
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#82
 p-Isopropyltoluene
 Concen: 97.402 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Tgt Ion:119 Resp: 599176
 Ion Ratio Lower Upper
 119 100
 134 25.9 0.0 51.6
 91 23.6 0.0 48.2





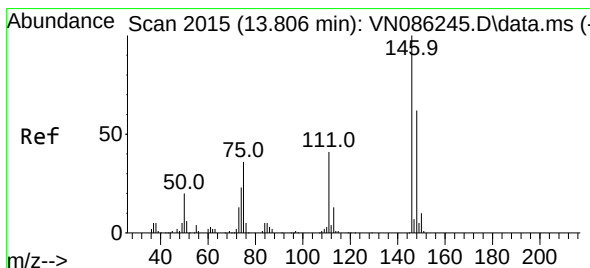
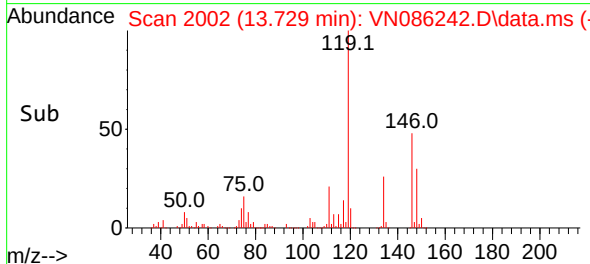
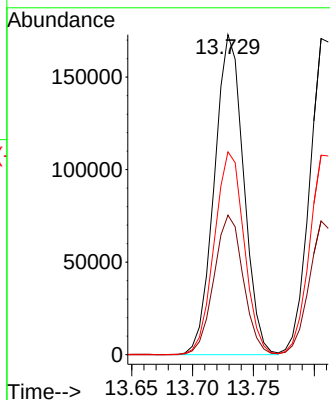
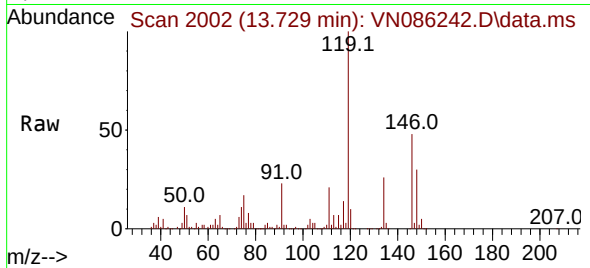
#83
1,3-Dichlorobenzene
Concen: 94.739 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 290118
Ion Ratio Lower Upper
146 100
111 43.7 21.7 65.1
148 64.4 32.3 96.8

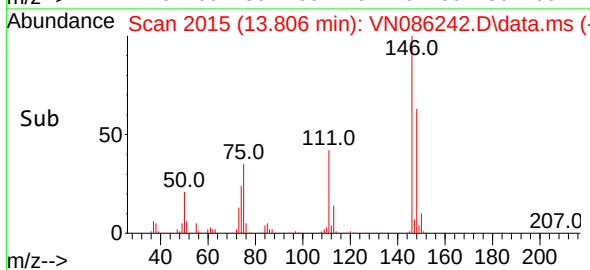
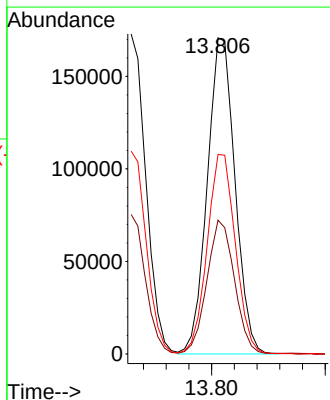
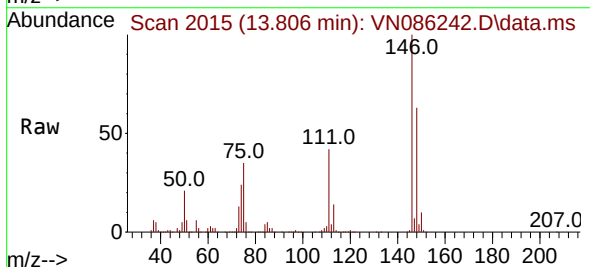
Manual Integrations
APPROVED

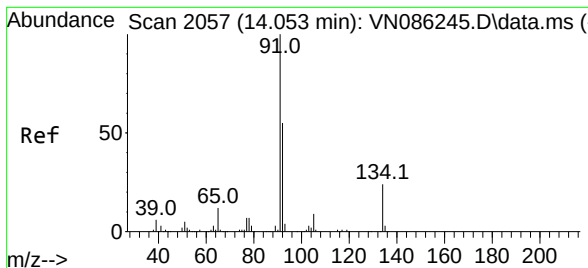
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#84
1,4-Dichlorobenzene
Concen: 94.482 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:146 Resp: 290254
Ion Ratio Lower Upper
146 100
111 42.1 20.8 62.4
148 63.8 31.9 95.5





#85

n-Butylbenzene

Concen: 99.247 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

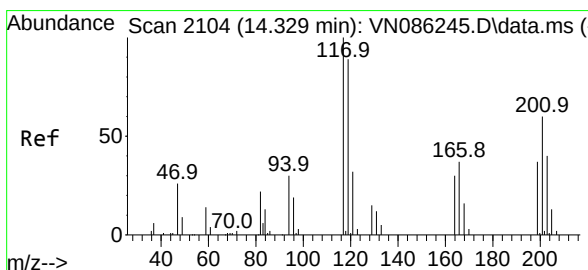
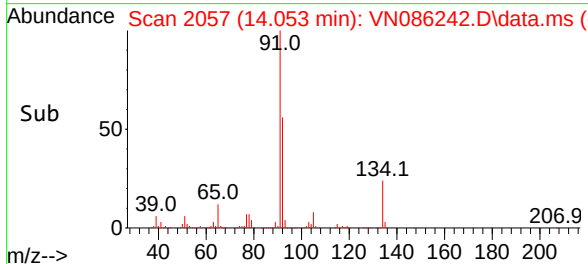
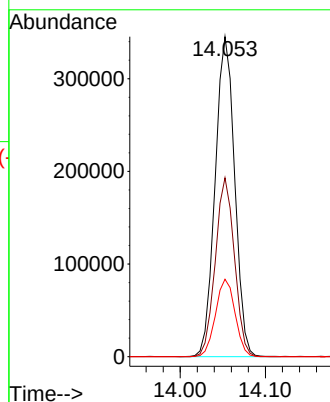
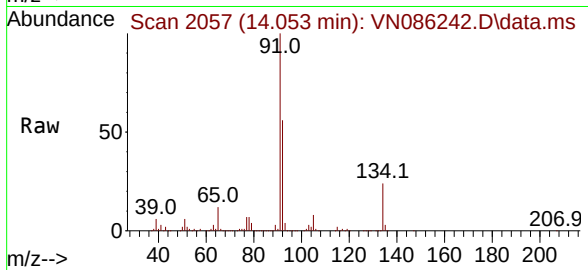
Tgt Ion:	91	Resp:	550772
Ion Ratio	Lower	Upper	
91	100		
92	54.5	0.0	109.4
134	24.2	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 97.469 ug/l

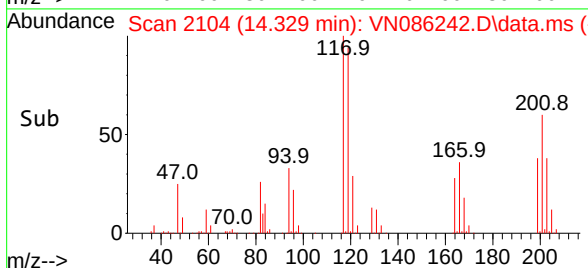
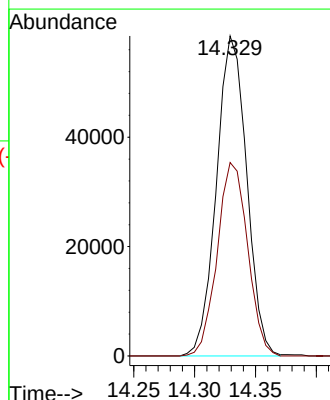
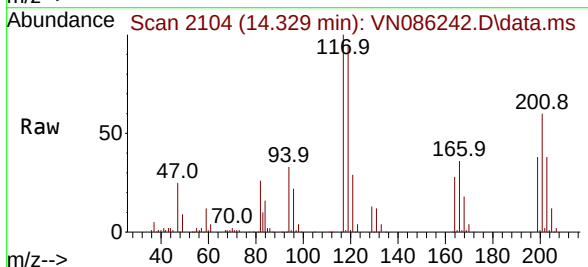
RT: 14.329 min Scan# 2104

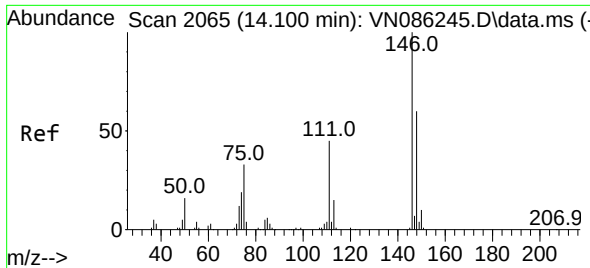
Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion:	117	Resp:	101143
Ion Ratio	Lower	Upper	
117	100		
201	60.7	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 93.023 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

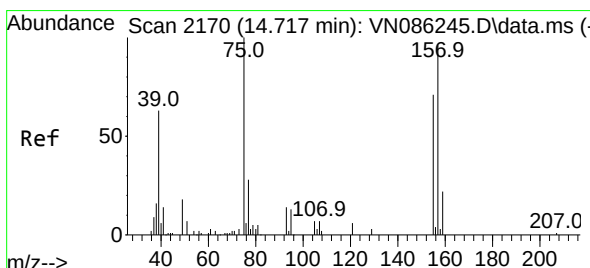
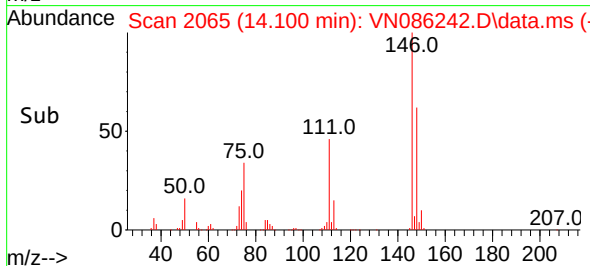
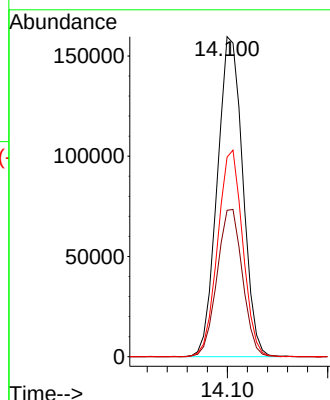
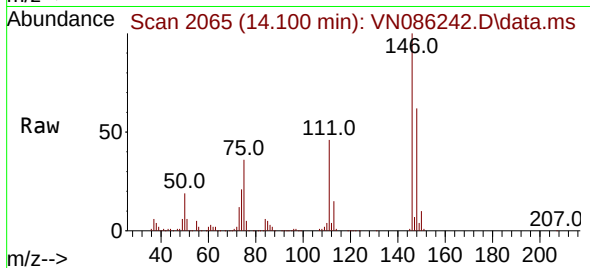
Tgt Ion:	146	Resp:	281264
Ion Ratio	Lower	Upper	
146	100		
111	45.9	22.7	68.0
148	63.4	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 88.876 ug/l

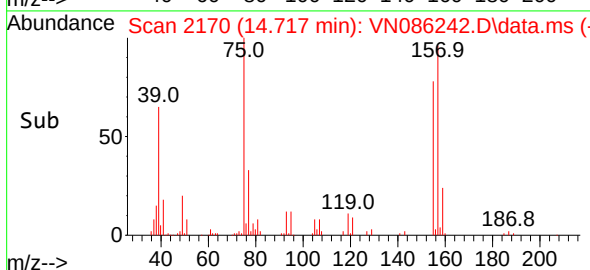
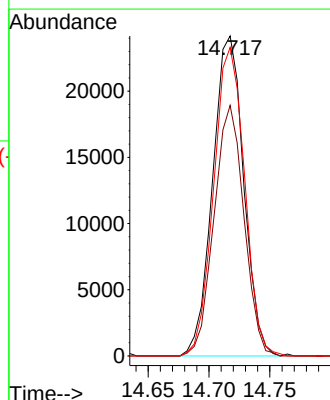
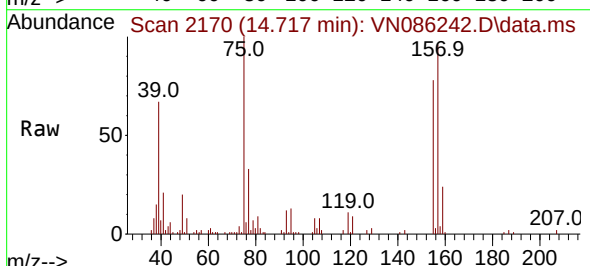
RT: 14.717 min Scan# 2170

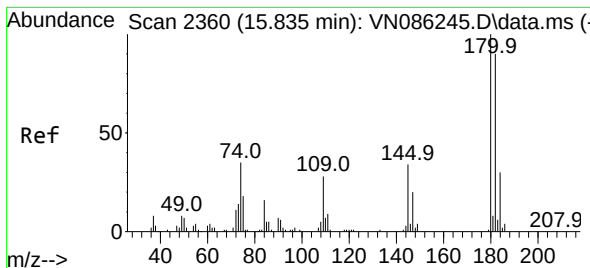
Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion:	75	Resp:	42853
Ion Ratio	Lower	Upper	
75	100		
155	75.5	60.3	90.5
157	95.8	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 93.313 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 137279

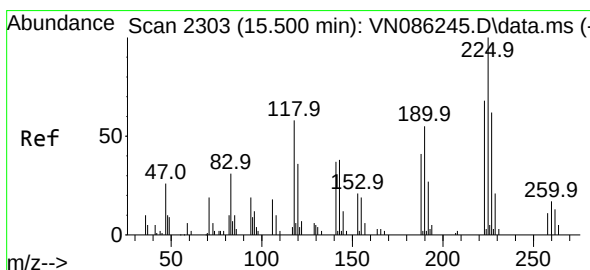
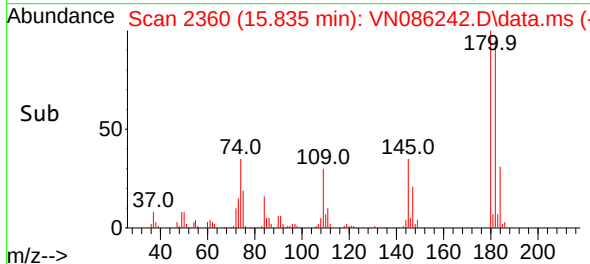
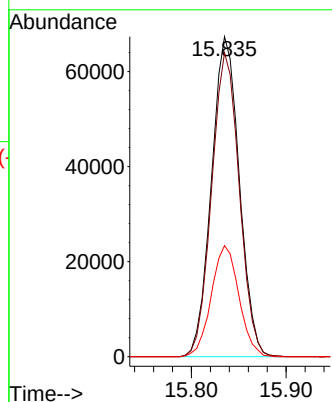
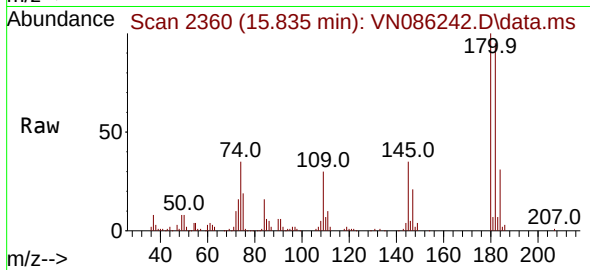
Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.1	112.7
145	34.5	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 87.904 ug/l

RT: 15.500 min Scan# 2303

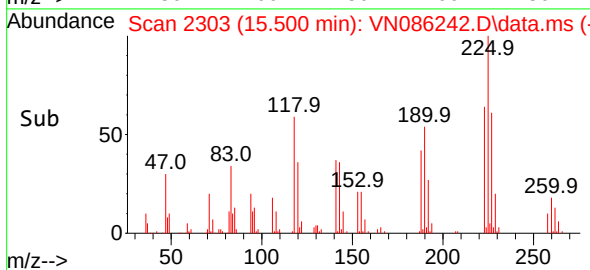
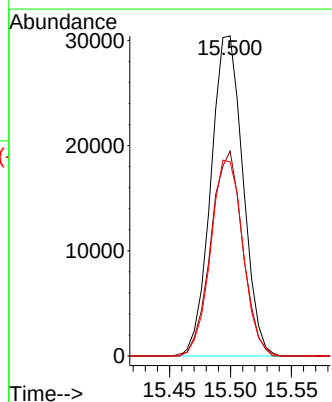
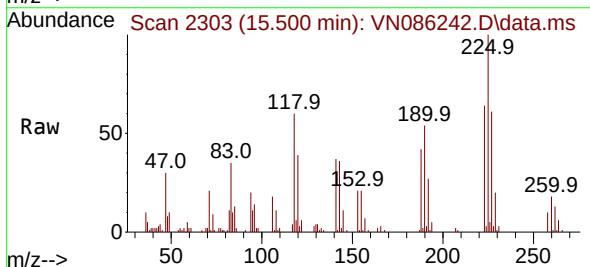
Delta R.T. -0.000 min

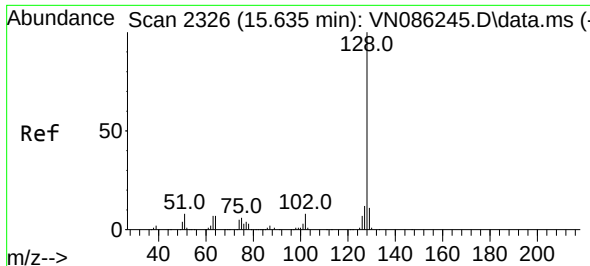
Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion:225 Resp: 55837

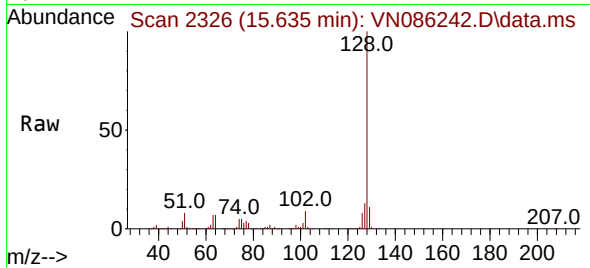
Ion	Ratio	Lower	Upper
225	100		
223	63.1	0.0	130.0
227	61.5	0.0	123.2





#91
Naphthalene
Concen: 88.964 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

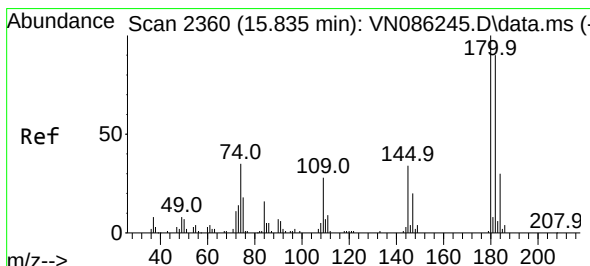
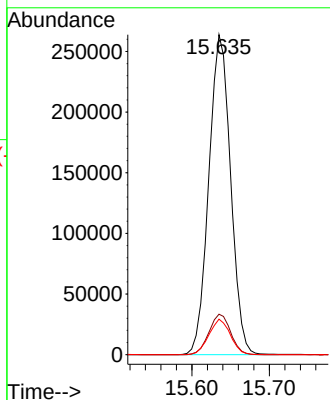
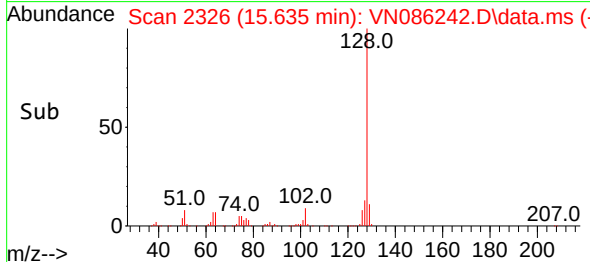
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



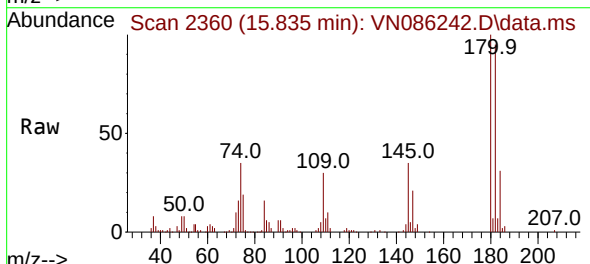
Tgt Ion:128 Resp: 51603
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.9 8.8 13.2

Manual Integrations
APPROVED

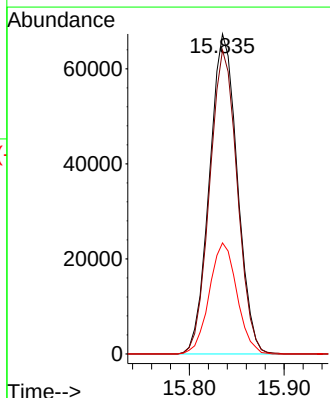
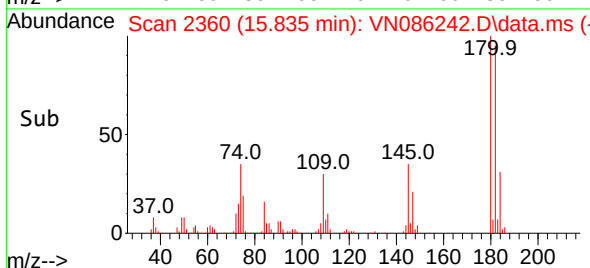
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 93.313 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



Tgt Ion:180 Resp: 137279
Ion Ratio Lower Upper
180 100
182 94.1 0.0 187.8
145 34.5 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:19:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212849	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191848	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	101225	29.892	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.633%		
60) 4-Bromofluorobenzene	12.847	95	116379	30.469	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.567%		
63) Toluene-d8	10.565	98	321243	29.660	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	159577	57.365	ug/l	99
3) Chloromethane	2.359	50	209307	54.440	ug/l	98
4) Vinyl Chloride	2.512	62	204553	55.856	ug/l	98
5) Bromomethane	2.953	94	94764	51.877	ug/l	93
6) Chloroethane	3.118	64	126545	54.720	ug/l	98
7) Trichlorofluoromethane	3.495	101	224704	56.563	ug/l	99
8) Diethyl Ether	3.959	74	100444	54.826	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	137760	56.236	ug/l	97
10) 1,1-Dichloroethene	4.342	96	142552	53.920	ug/l	95
11) Methyl Iodide	4.583	142	172223	56.678	ug/l	98
12) Methyl Acetate	5.024	43	216174	57.904	ug/l	98
13) Acrolein	4.177	56	95048	223.977	ug/l	99
14) Acrylonitrile	5.712	53	435610	276.391	ug/l	98
15) Acetone	4.424	58	112588	281.504	ug/l	93
16) Carbon Disulfide	4.712	76	388287	51.220	ug/l	99
17) Allyl chloride	5.018	41	250898	54.451	ug/l	99
18) Methylene Chloride	5.277	84	160052	53.099	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	147953	62.042	ug/l	98
20) Diisopropyl ether	6.671	45	559920	56.516	ug/l	97
21) 1,1-Dichloroethane	6.571	63	294059	55.639	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	179457	54.098	ug/l	97
23) tert-Butyl Alcohol	5.512	59	185093	283.431	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	526838	55.313	ug/l	98
25) Chloroform	7.965	83	279630	55.484	ug/l	96
26) Cyclohexane	8.253	56	278241	56.272	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	210025	55.081	ug/l	99
30) 2-Butanone	7.477	43	596520	282.334	ug/l	99
31) 2,2-Dichloropropane	7.488	77	260037	55.404	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	240887	54.920	ug/l	99
33) Carbon Tetrachloride	8.359	117	199323	56.865	ug/l	97
34) Benzene	8.606	78	666877	54.974	ug/l	98
35) Methacrylonitrile	7.777	41	129688	54.448	ug/l	99
36) 1,2-Dichloroethane	8.665	62	209738	55.252	ug/l	97
37) Trichloroethene	9.347	130	164224	56.109	ug/l	90
38) Methylcyclohexane	9.600	83	253415	54.191	ug/l	99
39) 1,2-Dichloropropane	9.618	63	168378	55.783	ug/l	98
40) Dibromomethane	9.706	93	106697	54.730	ug/l	99
41) Bromodichloromethane	9.888	83	225600	53.865	ug/l	97
42) Vinyl Acetate	6.600	43	1937093	269.341	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:19:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	233433	54.775	ug/l	98
44) Isopropyl Acetate	8.682	43	419280	53.034	ug/l	99
45) 1,4-Dioxane	9.688	88	71351	1134.960	ug/l #	95
46) Methyl methacrylate	9.676	41	197782	56.778	ug/l	99
47) n-amyl Acetate	12.488	43	354004	55.417	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	264279	55.817	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	277506	55.377	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	149001	54.493	ug/l	98
51) Ethyl methacrylate	10.871	69	283112	55.717	ug/l	96
52) 1,3-Dichloropropane	11.159	76	271010	55.609	ug/l	100
53) Dibromochloromethane	11.359	129	166341	55.616	ug/l	99
54) 1,2-Dibromoethane	11.465	107	152197	55.141	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	685916	357.238	ug/l	99
56) Bromoform	12.576	173	110623	56.534	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	1212140	278.421	ug/l	99
59) 2-Hexanone	11.194	43	912206	281.386	ug/l	99
61) Tetrachloroethene	11.100	164	160227	56.555	ug/l	98
62) Toluene	10.629	91	709533	55.140	ug/l	100
64) Chlorobenzene	11.888	112	434051	55.211	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	145468	56.068	ug/l	99
66) Ethyl Benzene	11.959	91	797966	55.917	ug/l	97
67) m/p-Xylenes	12.070	106	600484	113.164	ug/l	100
68) o-Xylene	12.394	106	294512	56.428	ug/l	99
69) Styrene	12.406	104	499886	56.790	ug/l	99
70) Isopropylbenzene	12.694	105	727241	56.511	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	194327	53.052	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	211703m	40.824	ug/l	
73) Bromobenzene	12.976	156	161325	56.588	ug/l	99
74) n-propylbenzene	13.035	91	865912	56.817	ug/l	100
75) 2-Chlorotoluene	13.123	91	539350	56.468	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	596201	56.398	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	100158	56.970	ug/l	92
78) 4-Chlorotoluene	13.217	91	541691	56.787	ug/l	100
79) tert-butylbenzene	13.435	119	506518	55.374	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	611389	57.035	ug/l	99
81) sec-Butylbenzene	13.612	105	714247	55.977	ug/l	99
82) p-Isopropyltoluene	13.723	119	604494	56.791	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	306241	57.795	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	303615	57.117	ug/l	100
85) n-Butylbenzene	14.053	91	536941	55.917	ug/l	99
86) Hexachloroethane	14.329	117	102084	56.854	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	301390	57.607	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	47464	56.890	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98
90) Hexachlorobutadiene	15.500	225	56236	51.165	ug/l	99
91) Naphthalene	15.635	128	561578	55.953	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98

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

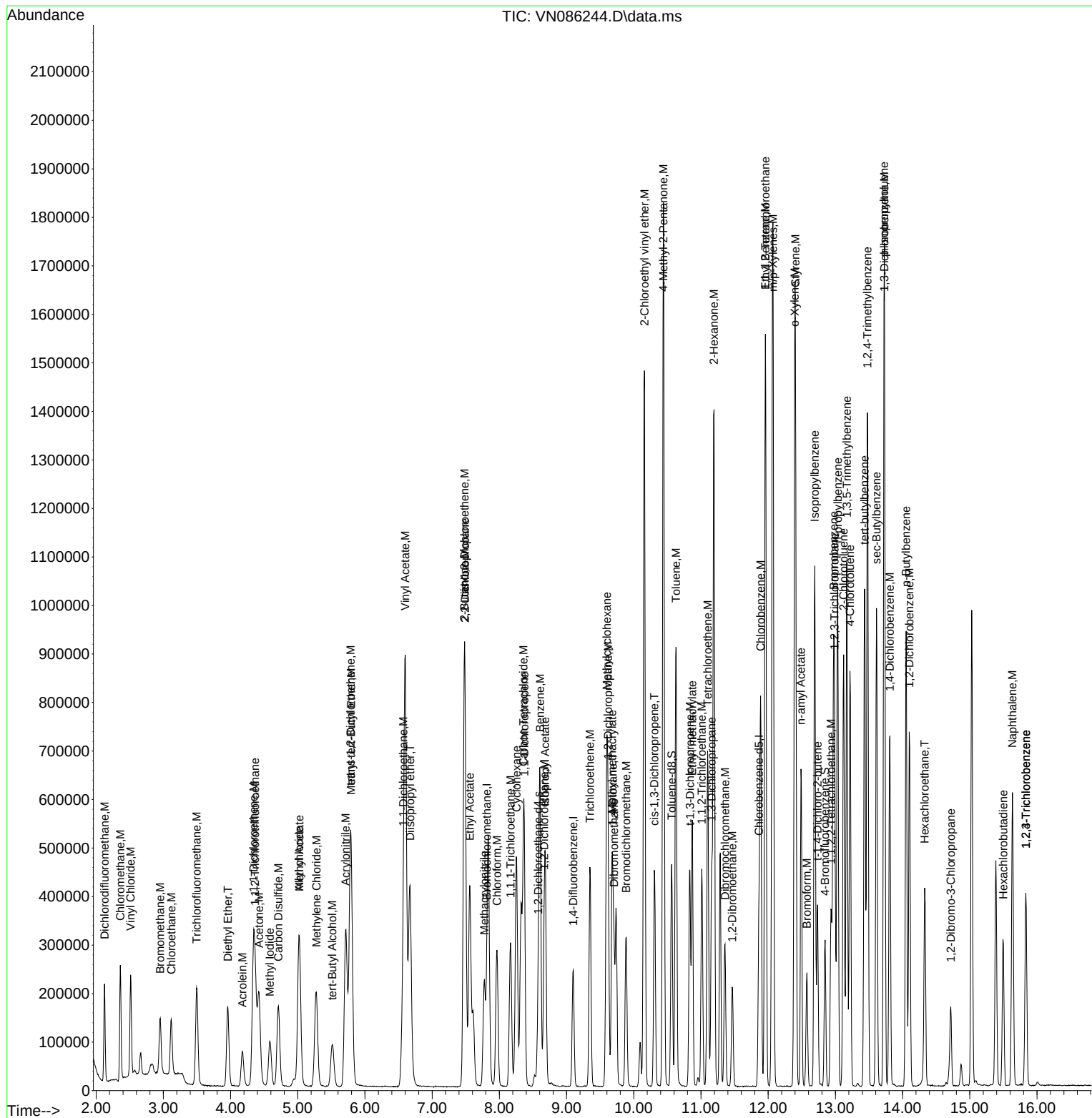
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086244.D
Acq On : 11 Apr 2025 11:52
Operator : JC\MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

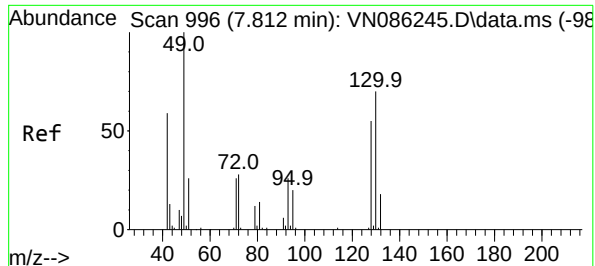
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:19:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 00:09:06 2025
Response via : Initial Calibration





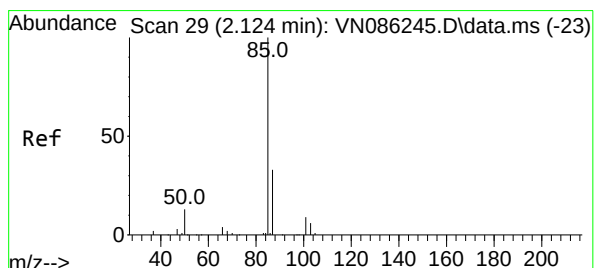
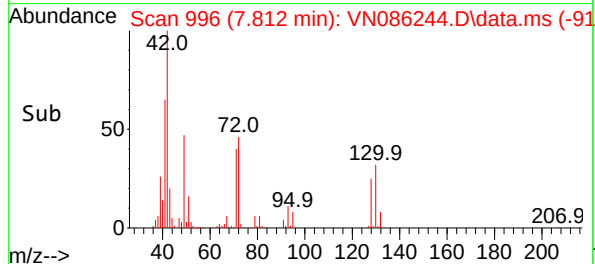
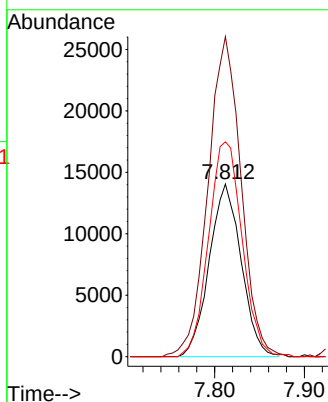
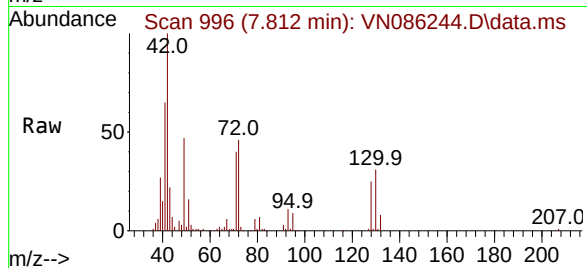
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion	Ratio	Lower	Upper
128	100		
49	191.4	0.0	452.5
130	130.4	0.0	315.0

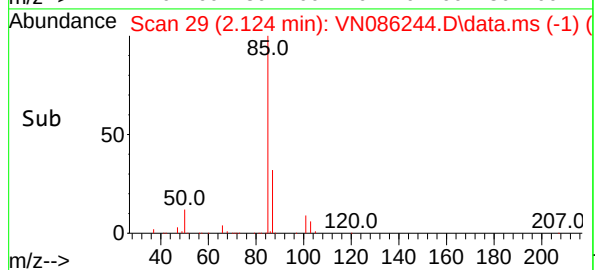
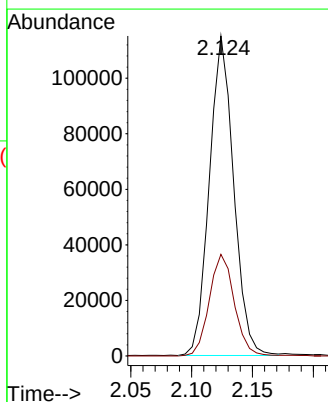
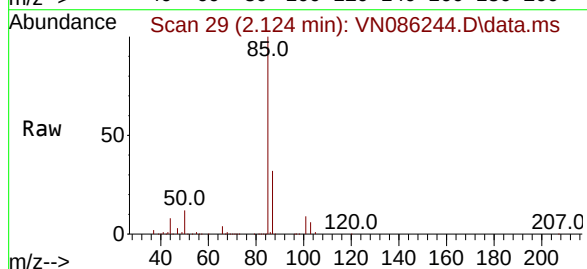
Manual Integrations
APPROVED

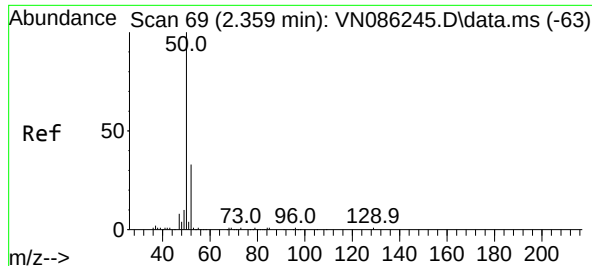
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 57.365 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.3	48.9





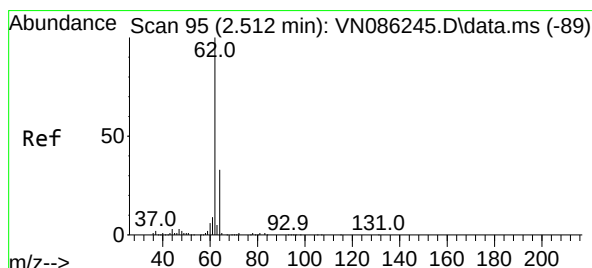
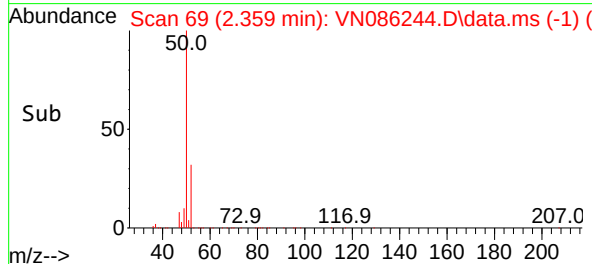
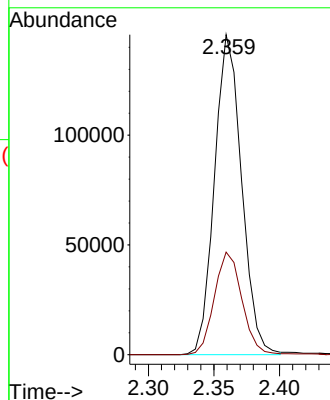
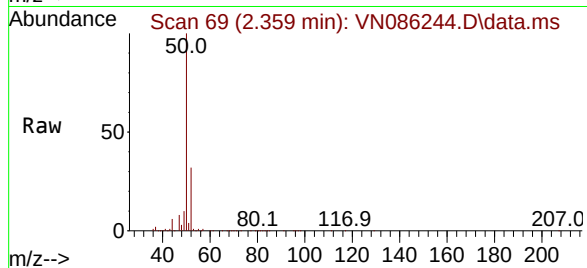
#3
Chloromethane
Concen: 54.440 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 50 Resp: 209307
Ion Ratio Lower Upper
50 100
52 32.1 26.4 39.6

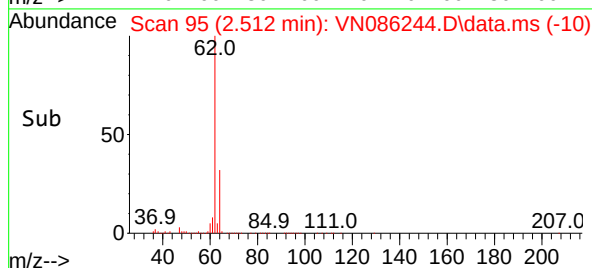
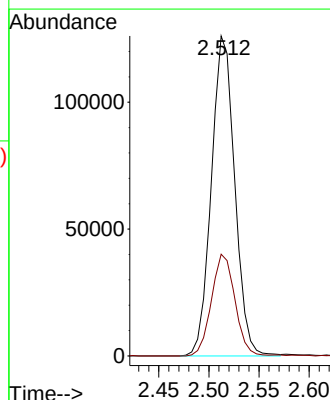
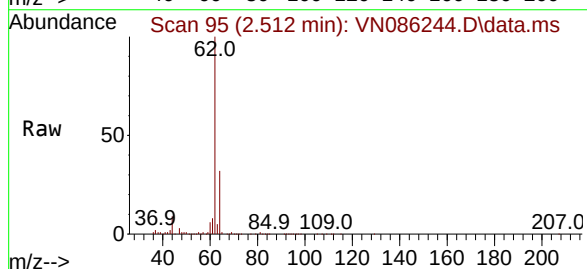
Manual Integrations
APPROVED

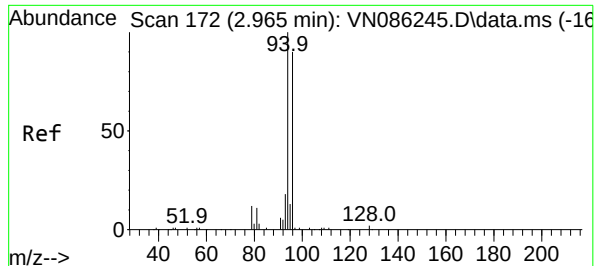
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 55.856 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 62 Resp: 204553
Ion Ratio Lower Upper
62 100
64 31.8 26.3 39.5





#5

Bromomethane

Concen: 51.877 ug/l

RT: 2.953 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 94 Resp: 94764

Ion Ratio Lower Upper

94 100

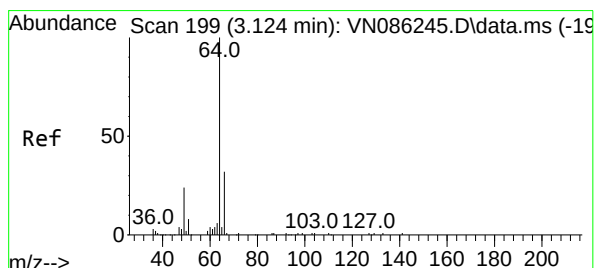
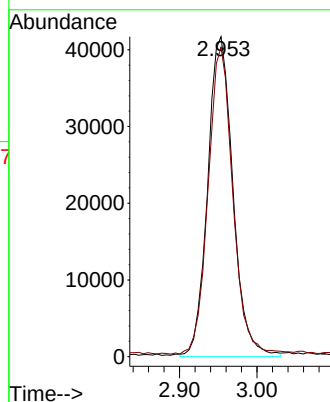
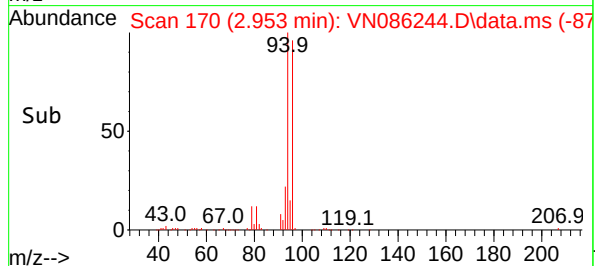
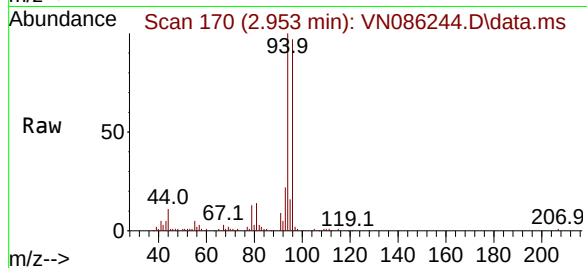
96 96.6 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 54.720 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN086244.D

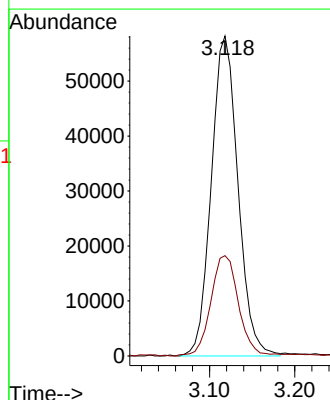
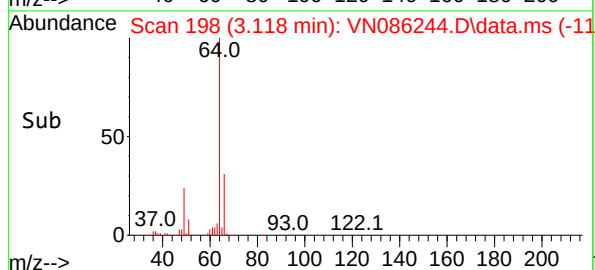
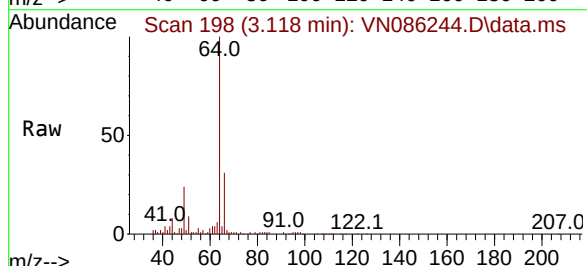
Acq: 11 Apr 2025 11:52

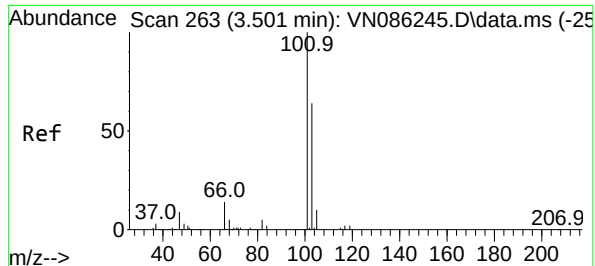
Tgt Ion: 64 Resp: 126545

Ion Ratio Lower Upper

64 100

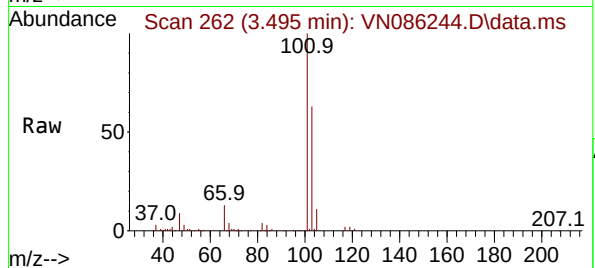
66 31.0 25.7 38.5





#7
Trichlorofluoromethane
Concen: 56.563 ug/l
RT: 3.495 min Scan# 263
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

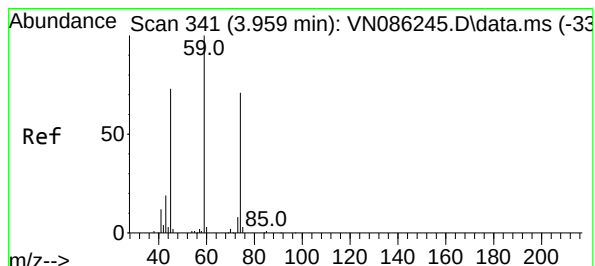
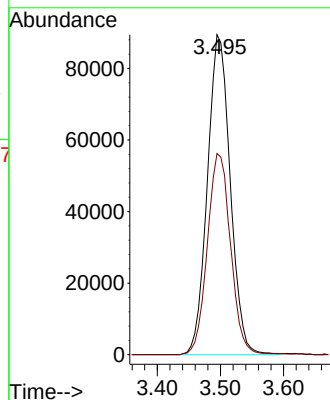
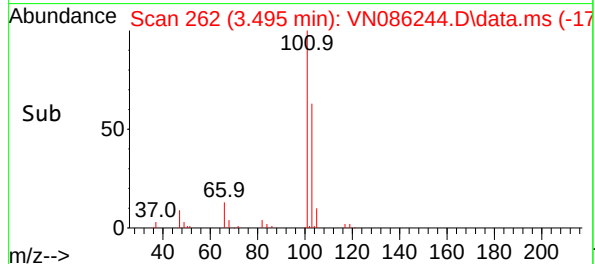
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:101 Resp: 224704
Ion Ratio Lower Upper
101 100
103 62.8 51.2 76.8

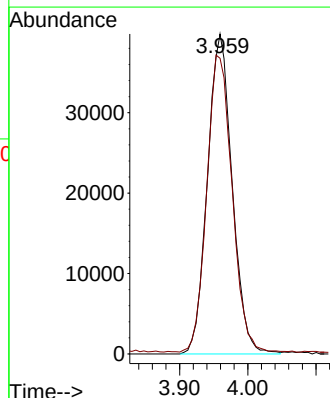
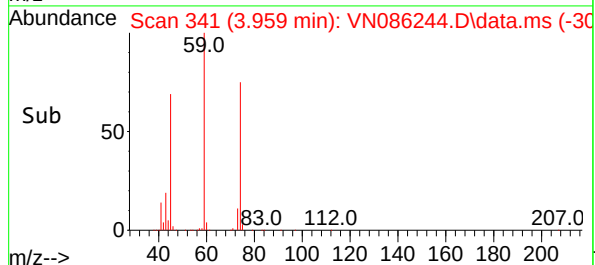
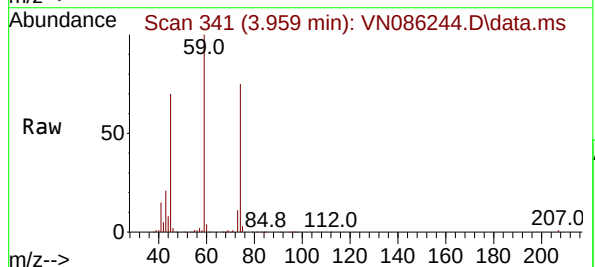
Manual Integrations
APPROVED

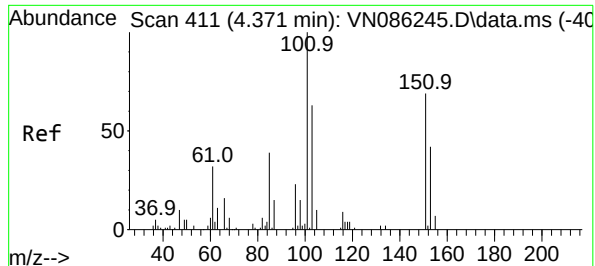
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 54.826 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 74 Resp: 100444
Ion Ratio Lower Upper
74 100
45 94.8 19.2 173.2





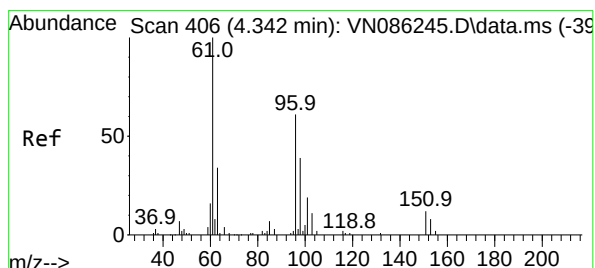
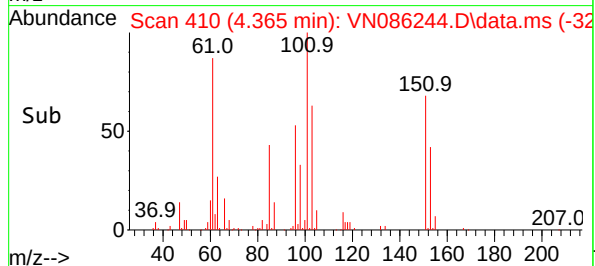
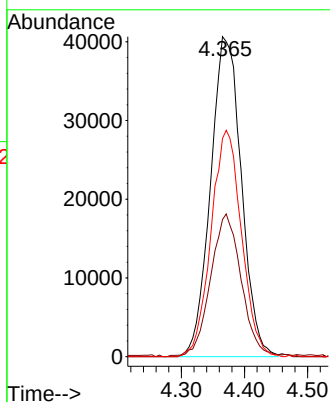
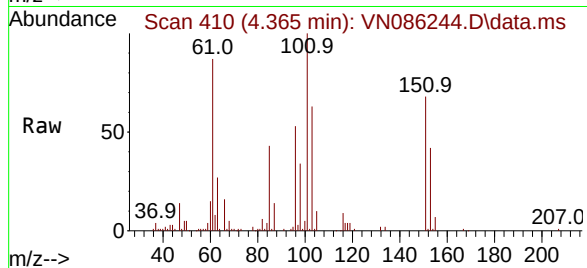
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.236 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:101 Resp: 137760
Ion Ratio Lower Upper
101 100
85 43.0 0.0 93.0
151 69.8 0.0 138.6

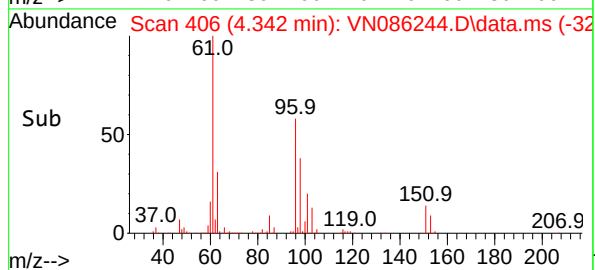
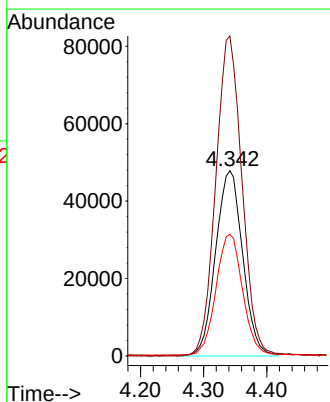
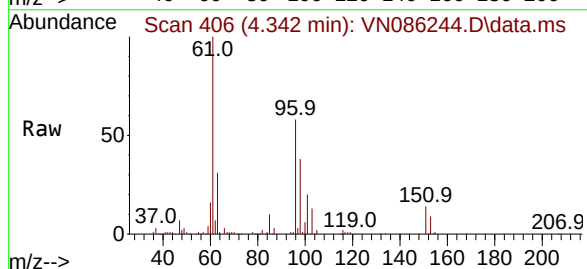
Manual Integrations
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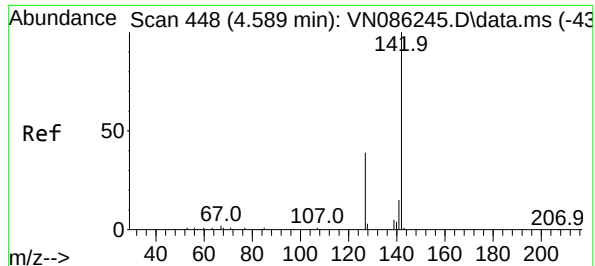
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 53.920 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 96 Resp: 142552
Ion Ratio Lower Upper
96 100
61 172.7 131.1 196.7
98 64.9 51.6 77.4





#11

Methyl Iodide

Concen: 56.678 ug/l

RT: 4.583 min Scan# 447

Delta R.T. -0.006 min

Lab File: VN086244.D

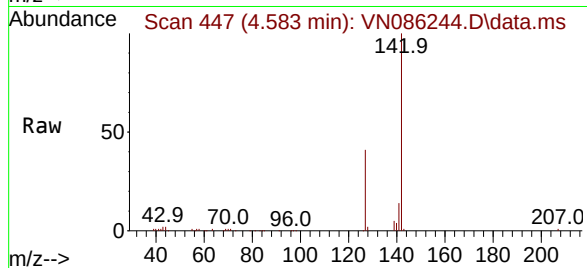
Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050



Tgt Ion:142 Resp: 17222

Ion Ratio Lower Upper

142 100

127 41.0 19.6 58.8

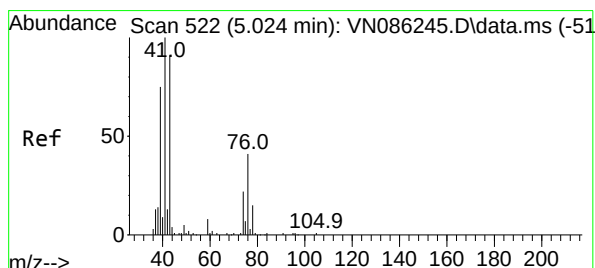
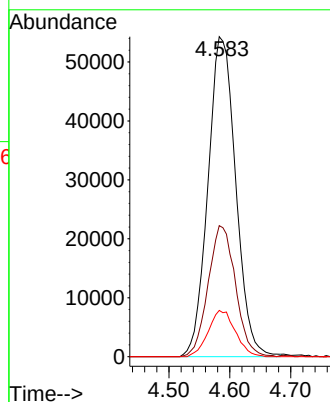
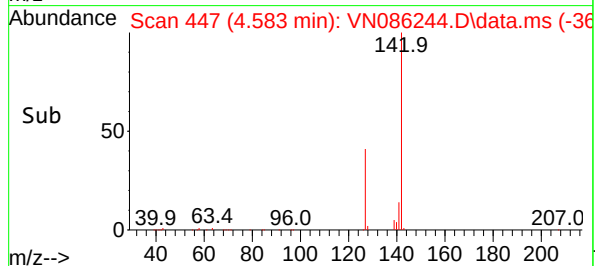
141 14.5 7.3 21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 57.904 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086244.D

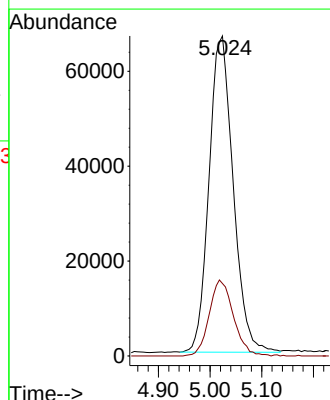
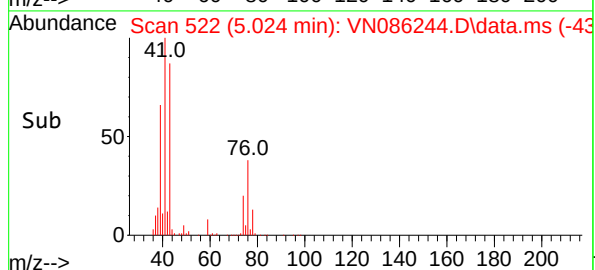
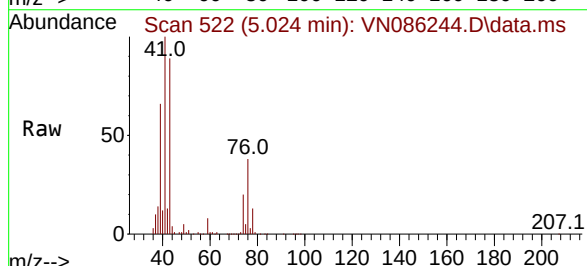
Acq: 11 Apr 2025 11:52

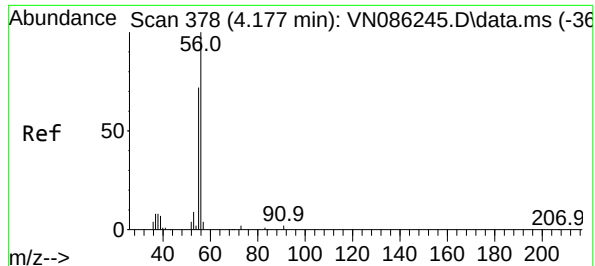
Tgt Ion: 43 Resp: 216174

Ion Ratio Lower Upper

43 100

74 22.9 19.1 28.7





#13

Acrolein

Concen: 223.977 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 56 Resp: 9504

Ion Ratio Lower Upper

56 100

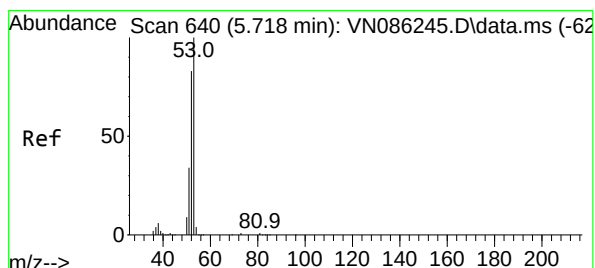
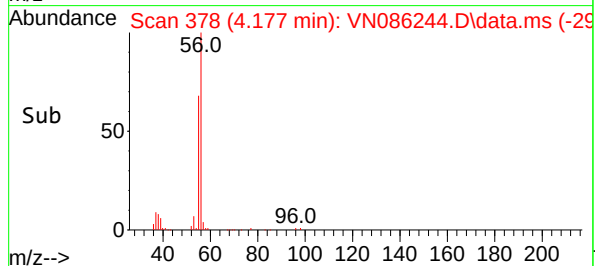
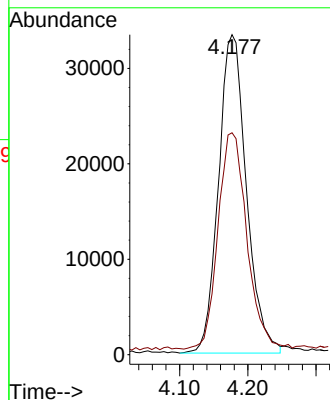
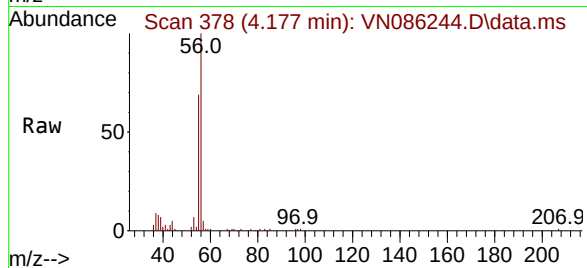
55 69.9 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 276.391 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

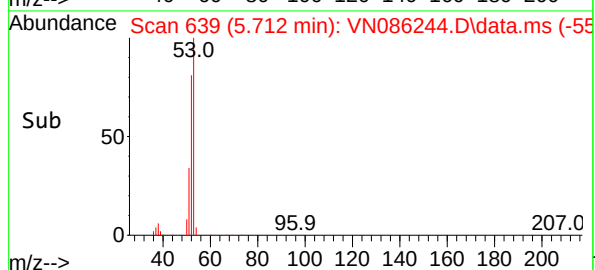
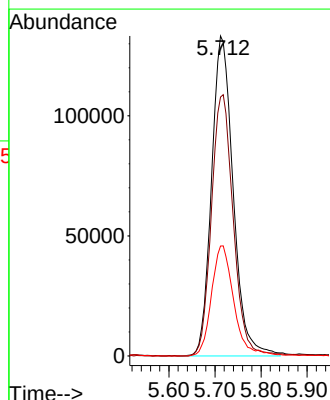
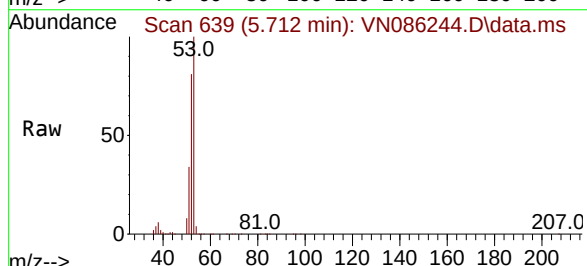
Tgt Ion: 53 Resp: 435610

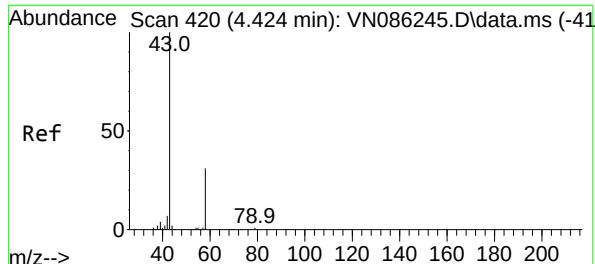
Ion Ratio Lower Upper

53 100

52 82.0 40.2 120.6

51 34.5 17.5 52.6





#15

Acetone

Concen: 281.504 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 58 Resp: 11258

Ion Ratio Lower Upper

58 100

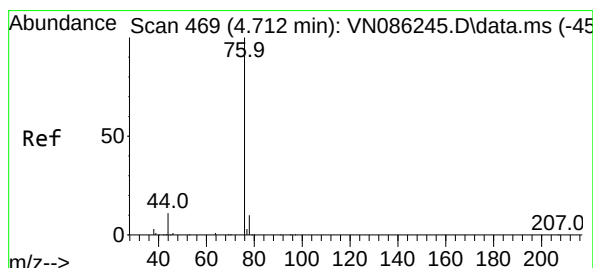
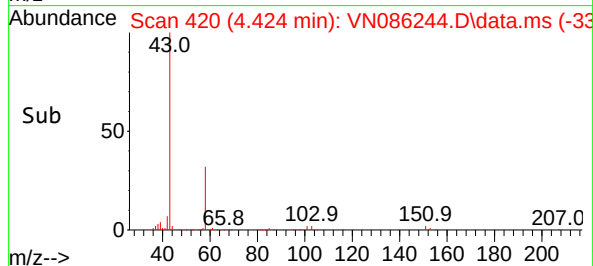
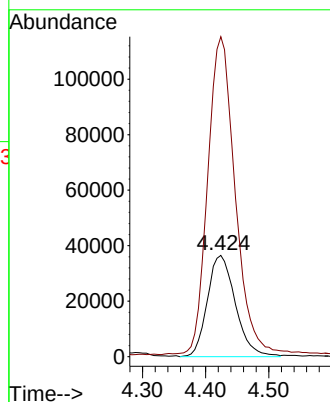
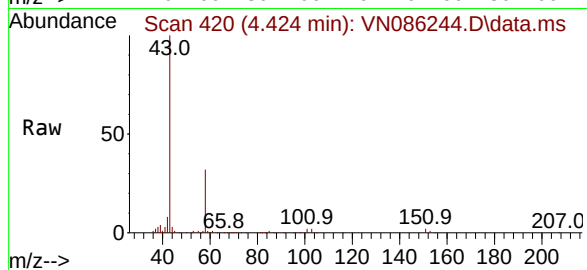
43 312.3 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 51.220 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086244.D

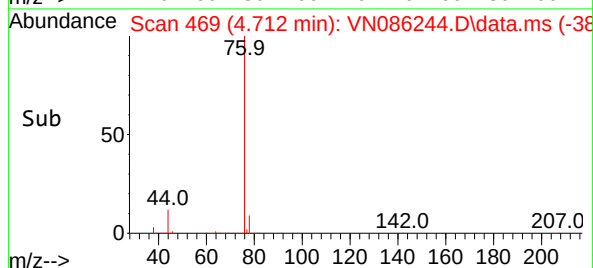
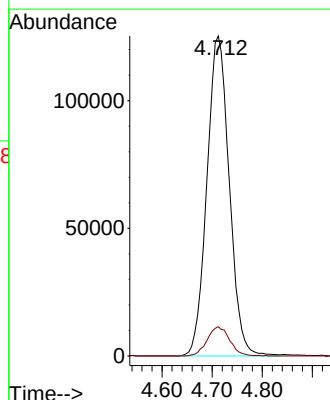
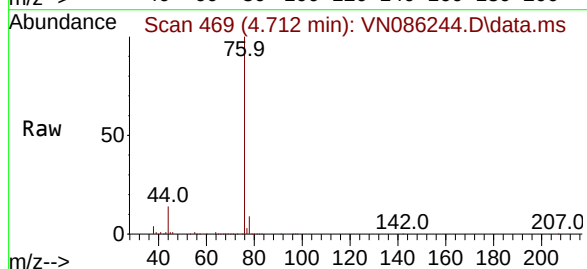
Acq: 11 Apr 2025 11:52

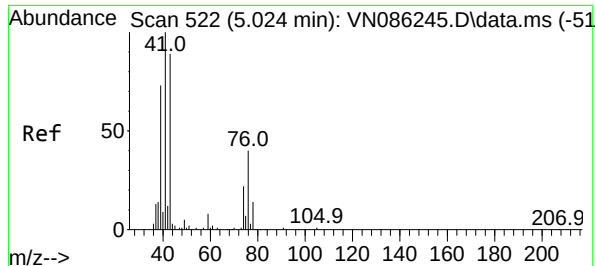
Tgt Ion: 76 Resp: 388287

Ion Ratio Lower Upper

76 100

78 9.2 7.7 11.5





#17

Allyl chloride

Concen: 54.451 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 250898

Ion Ratio Lower Upper

41 100

39 68.2 34.4 103.2

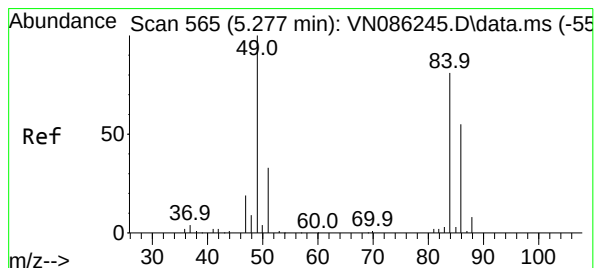
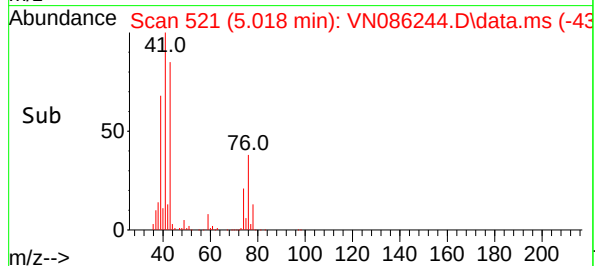
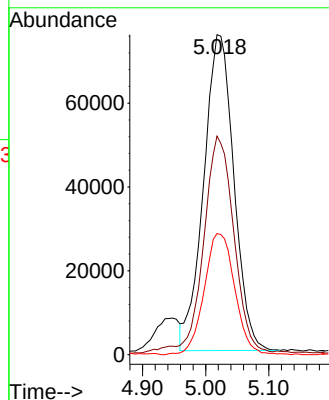
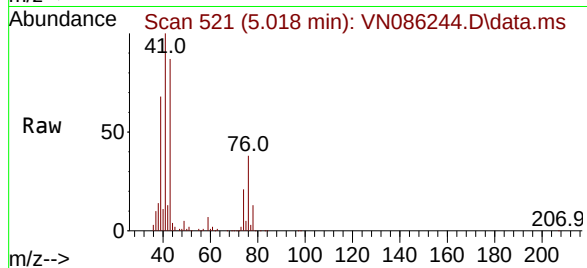
76 38.1 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 53.099 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion: 84 Resp: 160052

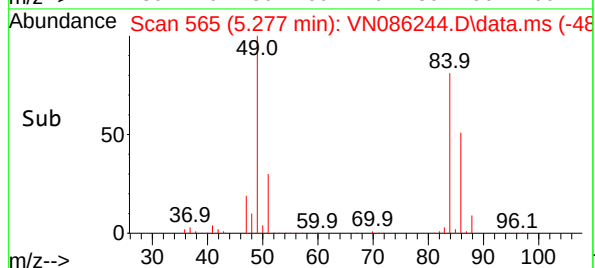
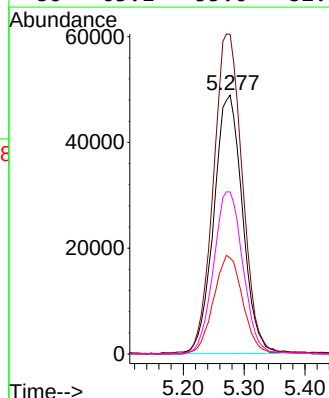
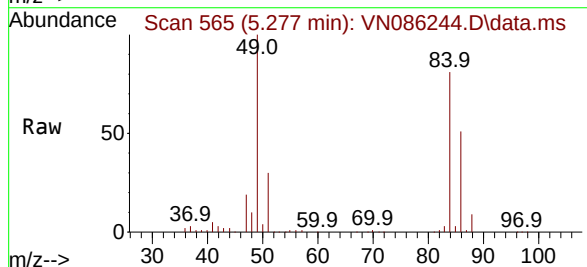
Ion Ratio Lower Upper

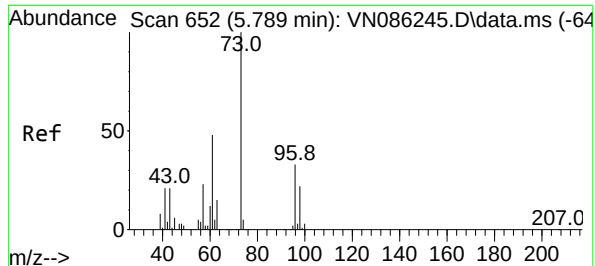
84 100

49 124.3 99.1 148.7

51 37.3 32.3 48.5

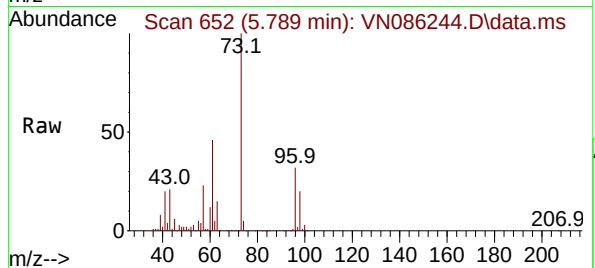
86 63.1 55.0 82.4





#19
trans-1,2-Dichloroethene
Concen: 62.042 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

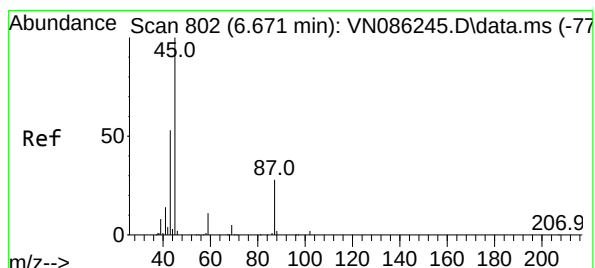
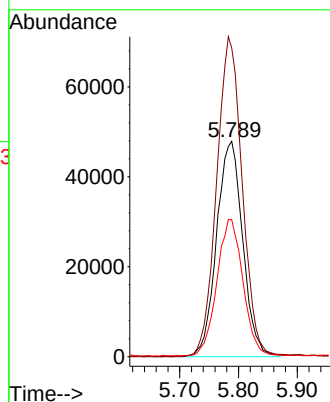
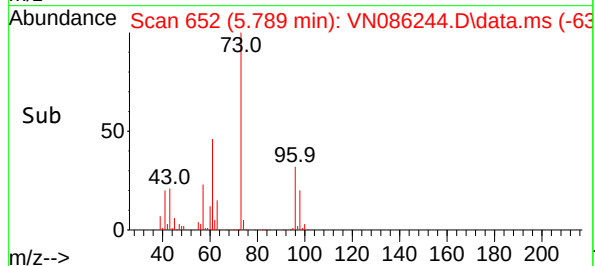
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 96 Resp: 14795
Ion Ratio Lower Upper
96 100
61 143.4 115.9 173.9
98 63.2 52.1 78.1

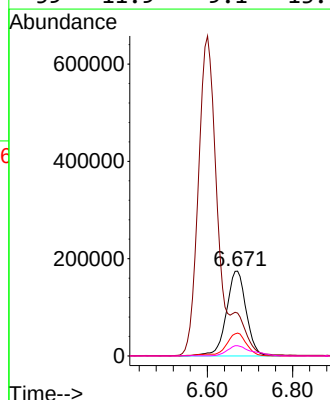
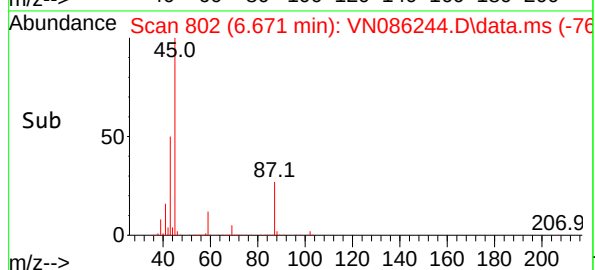
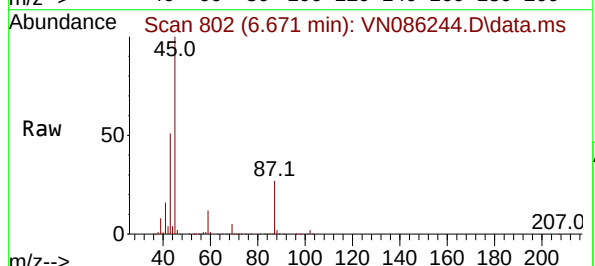
Manual Integrations
APPROVED

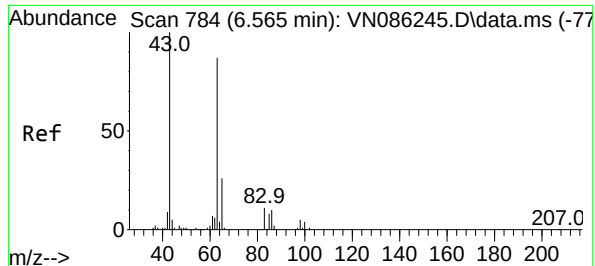
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#20
Diisopropyl ether
Concen: 56.516 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

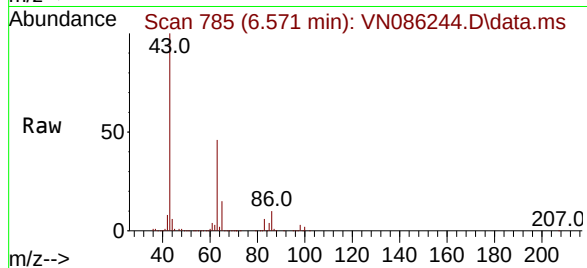
Tgt Ion: 45 Resp: 559920
Ion Ratio Lower Upper
45 100
43 49.4 42.3 63.5
87 27.1 22.2 33.4
59 11.9 9.1 13.7





#21
1,1-Dichloroethane
Concen: 55.639 ug/l
RT: 6.571 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

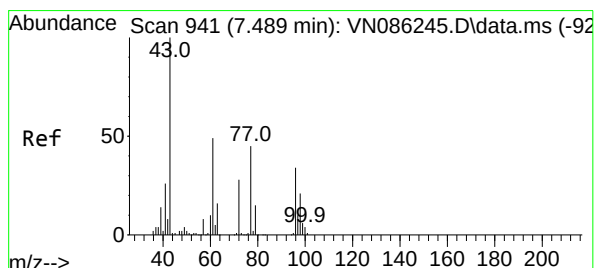
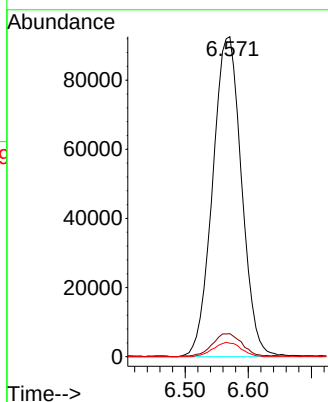
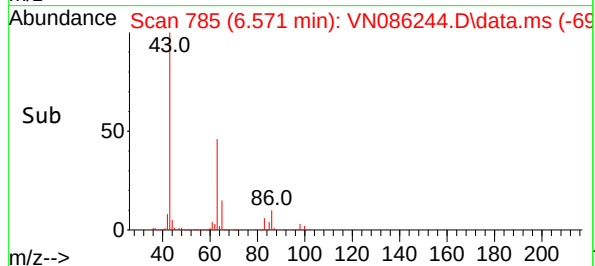
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 63 Resp: 294059
Ion Ratio Lower Upper
63 100
98 7.2 3.1 9.3
100 4.2 2.3 6.9

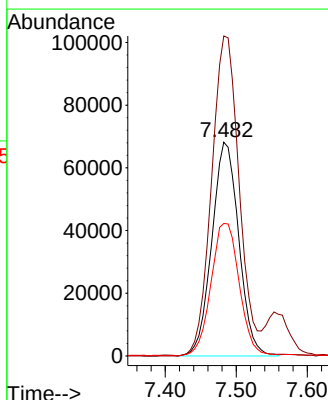
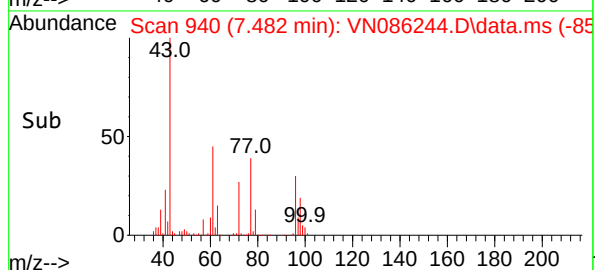
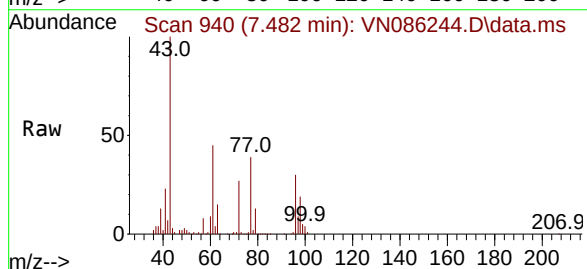
Manual Integrations
APPROVED

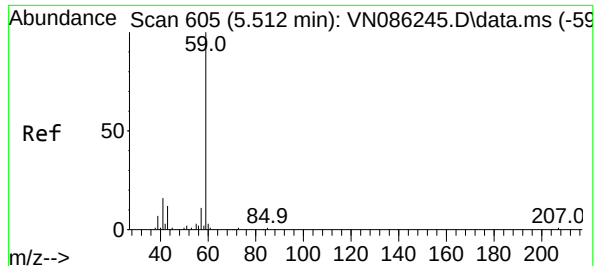
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 54.098 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 96 Resp: 179457
Ion Ratio Lower Upper
96 100
61 153.7 119.5 179.3
98 65.1 51.0 76.6





#23

tert-Butyl Alcohol

Concen: 283.431 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 59 Resp: 185093

Ion Ratio Lower Upper

59 100

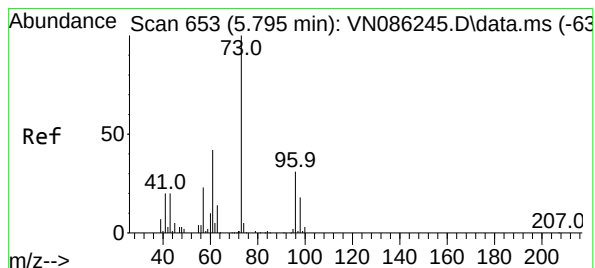
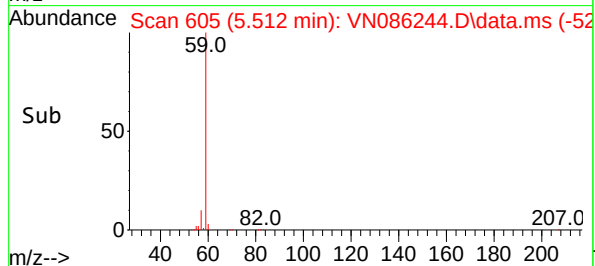
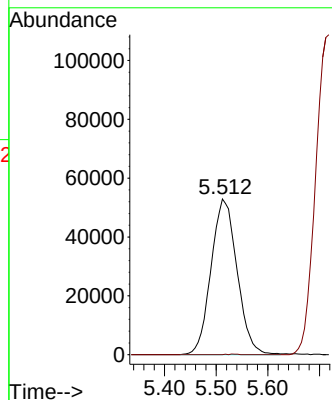
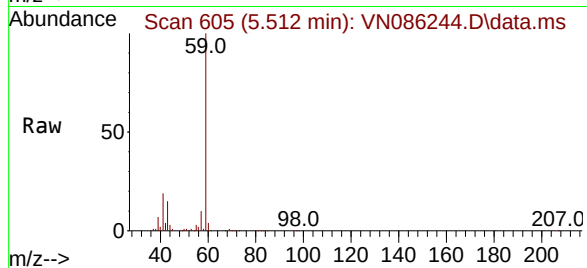
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#24

Methyl tert-Butyl Ether

Concen: 55.313 ug/l

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN086244.D

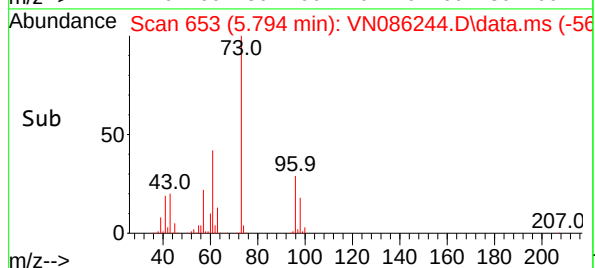
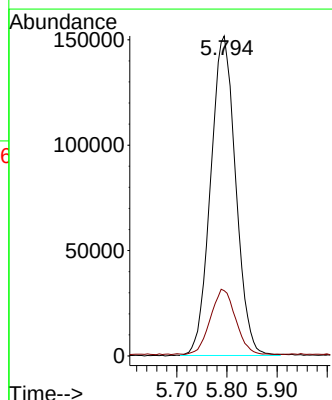
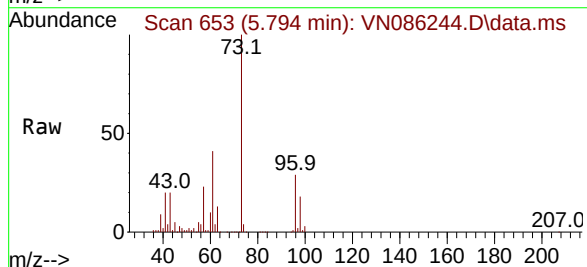
Acq: 11 Apr 2025 11:52

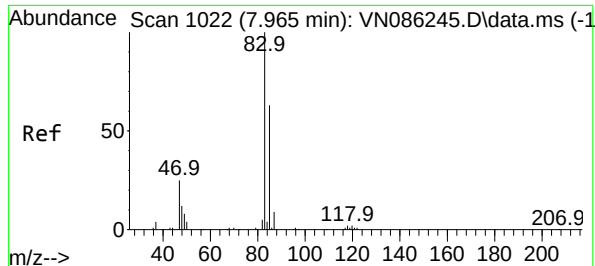
Tgt Ion: 73 Resp: 526838

Ion Ratio Lower Upper

73 100

43 20.3 16.8 25.2





#25

Chloroform

Concen: 55.484 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 279630

Ion Ratio Lower Upper

83 100

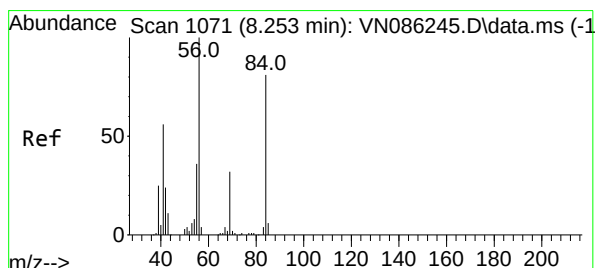
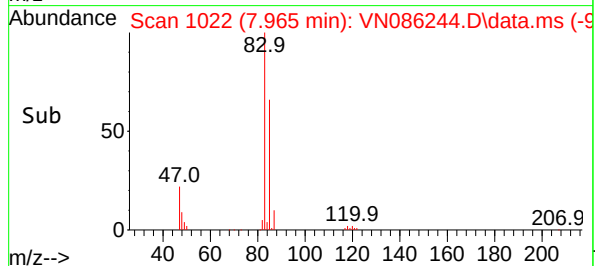
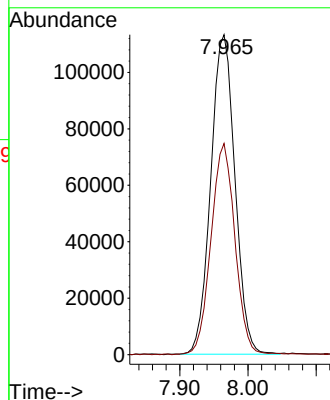
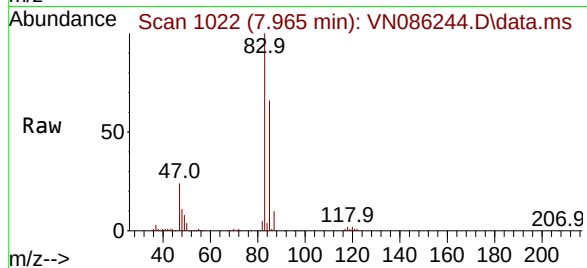
85 65.9 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 56.272 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

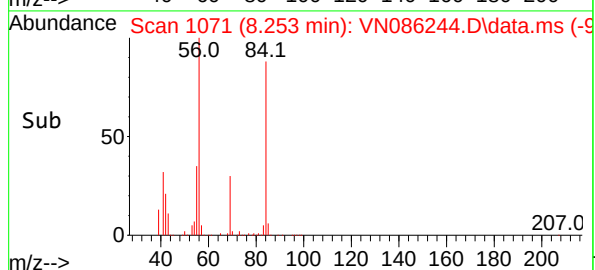
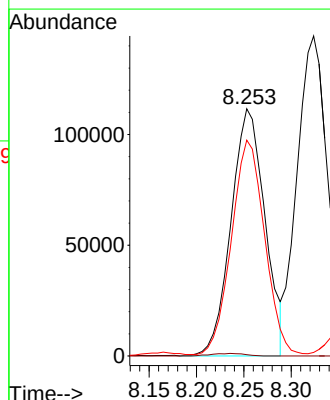
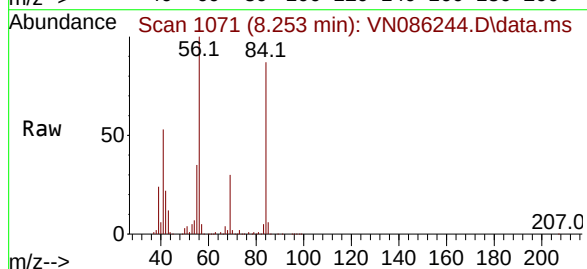
Tgt Ion: 56 Resp: 278241

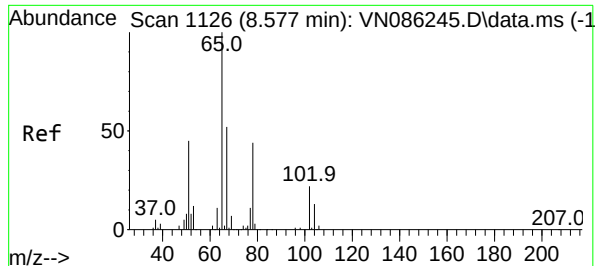
Ion Ratio Lower Upper

56 100

89 1.0 0.0 0.0#

84 86.0 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.892 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 65 Resp: 101225

Ion Ratio Lower Upper

65 100

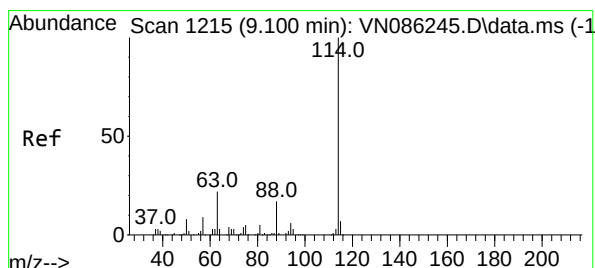
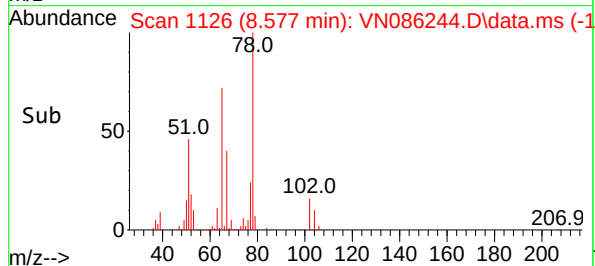
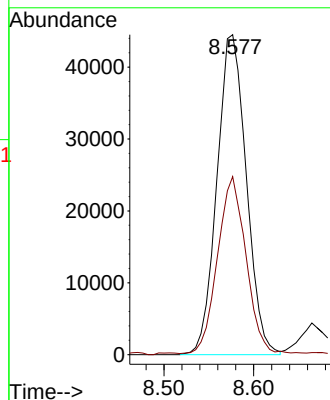
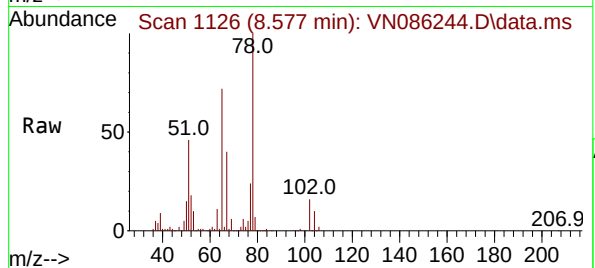
67 53.0 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

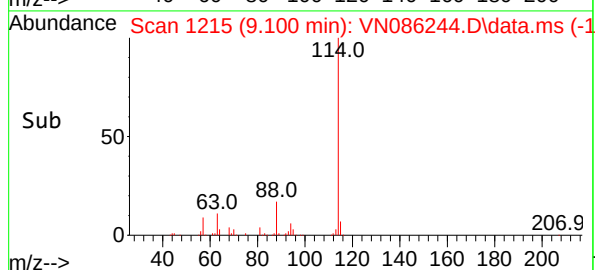
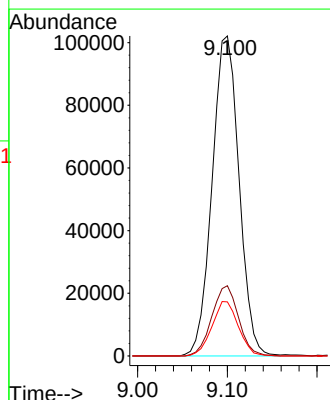
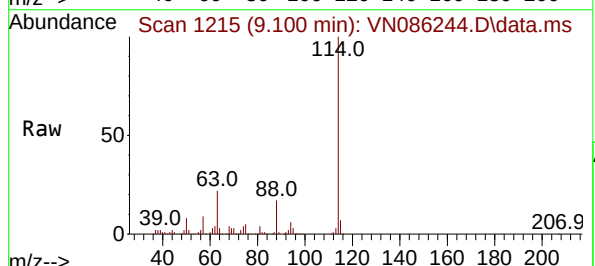
Tgt Ion:114 Resp: 212849

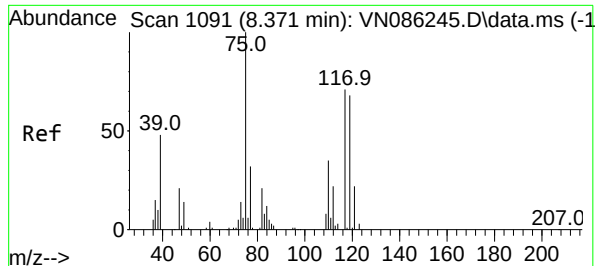
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.7 13.4 20.2





#29

1,1-Dichloropropene

Concen: 55.081 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 21002

Ion Ratio Lower Upper

75 100

110 33.9 0.0 68.6

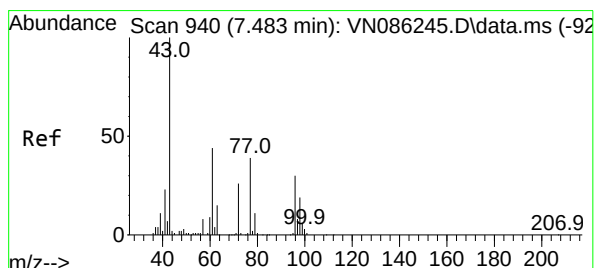
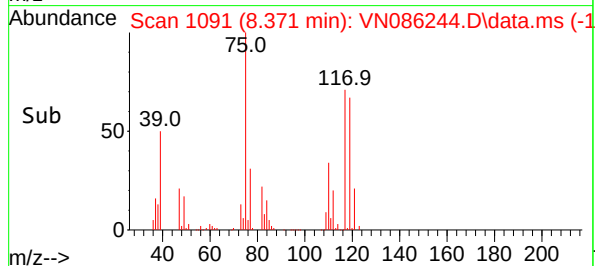
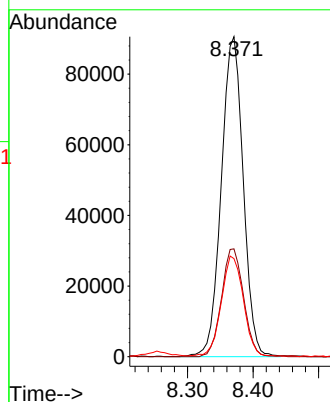
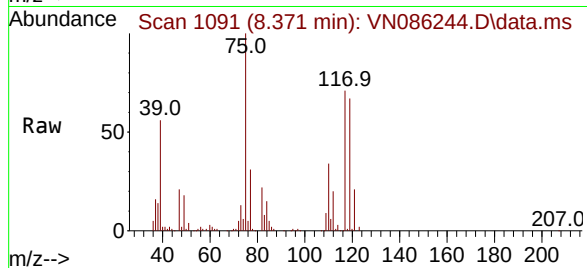
77 31.4 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 282.334 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

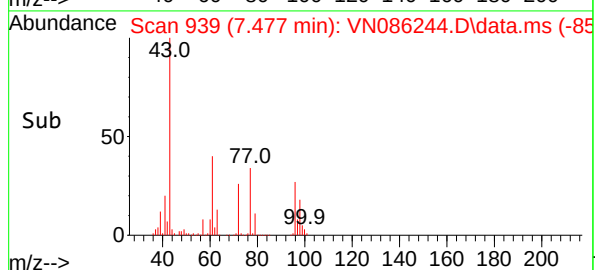
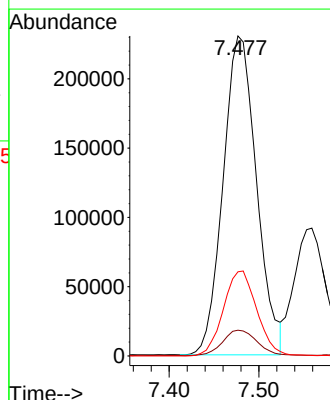
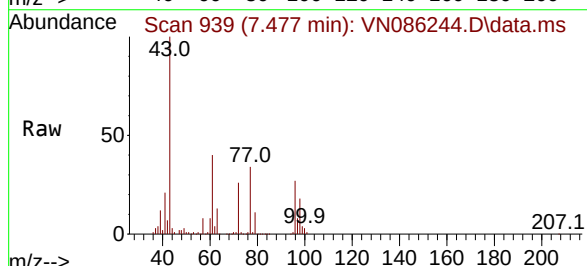
Tgt Ion: 43 Resp: 596520

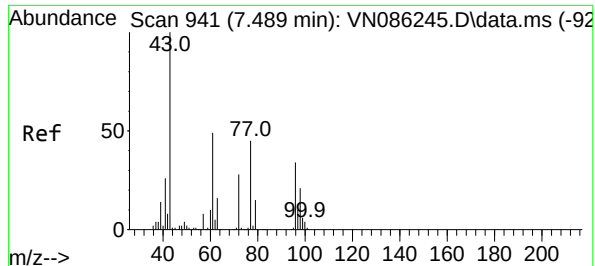
Ion Ratio Lower Upper

43 100

57 8.3 6.4 9.6

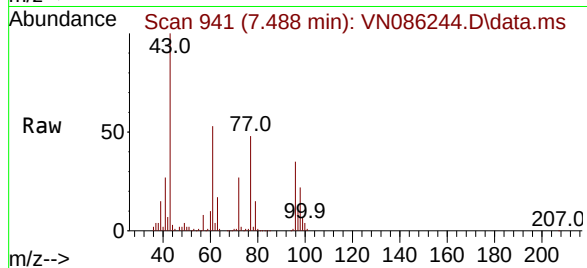
72 26.5 21.5 32.3





#31
2,2-Dichloropropane
Concen: 55.404 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

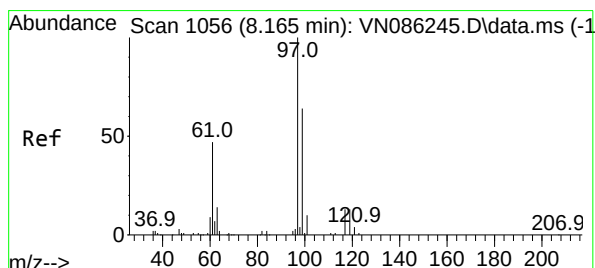
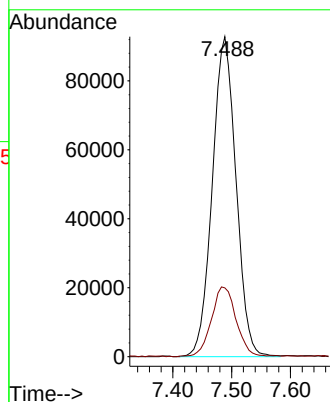
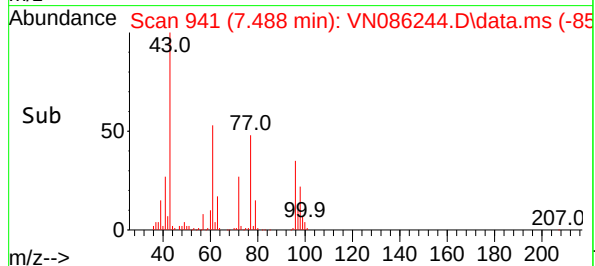
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 77 Resp: 26003
Ion Ratio Lower Upper
77 100
97 22.2 18.8 28.2

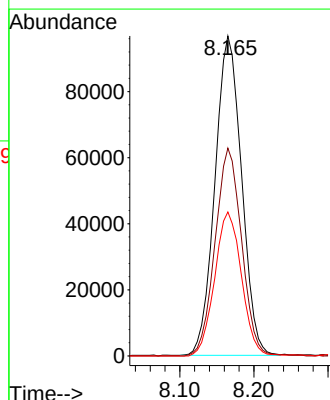
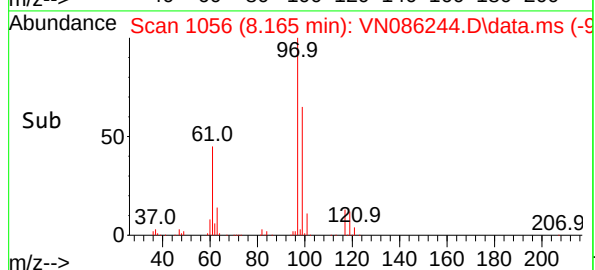
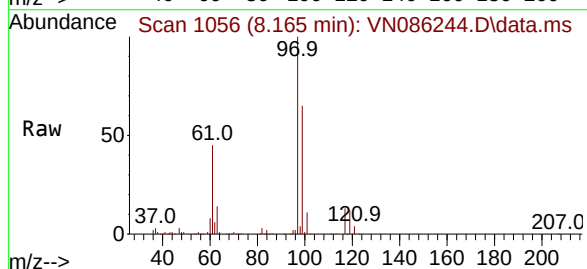
Manual Integrations
APPROVED

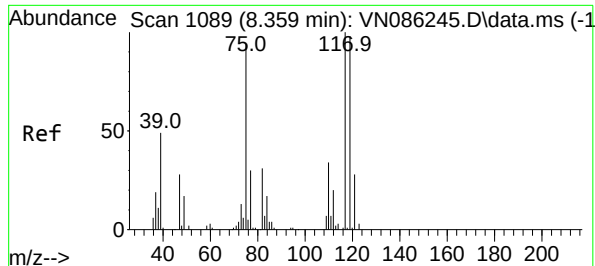
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 54.920 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

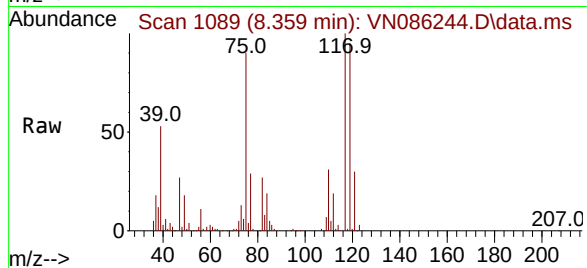
Tgt Ion: 97 Resp: 240887
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 45.4 37.0 55.6





#33
Carbon Tetrachloride
Concen: 56.865 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

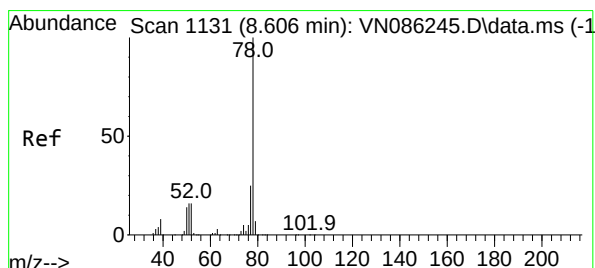
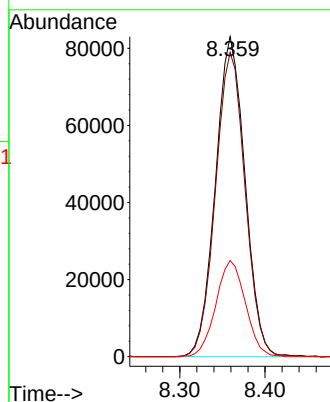
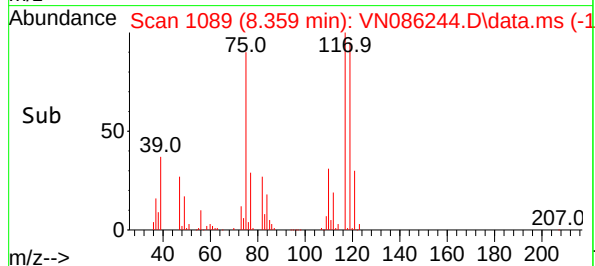
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 117 Resp: 19932
Ion Ratio Lower Upper
117 100
119 94.9 78.3 117.5
121 30.0 22.5 33.7

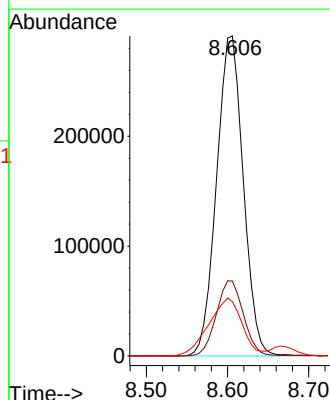
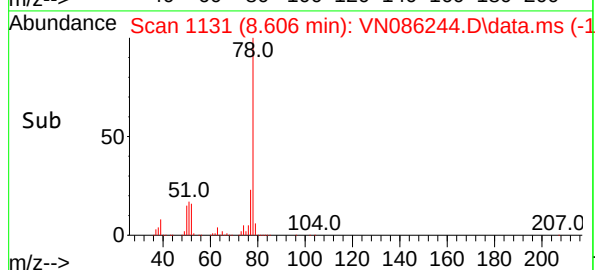
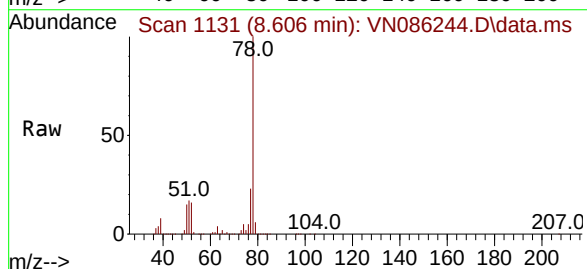
Manual Integrations
APPROVED

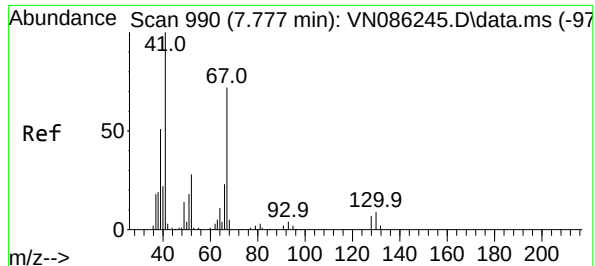
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 54.974 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 78 Resp: 666877
Ion Ratio Lower Upper
78 100
77 23.4 20.0 30.0
51 16.4 12.9 19.3





#35

Methacrylonitrile

Concen: 54.448 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 12968

Ion Ratio Lower Upper

41 100

39 51.4 25.8 77.3

67 73.1 36.0 108.0

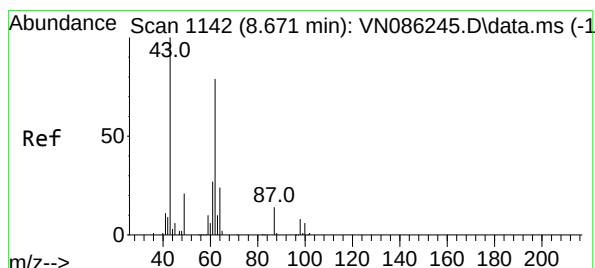
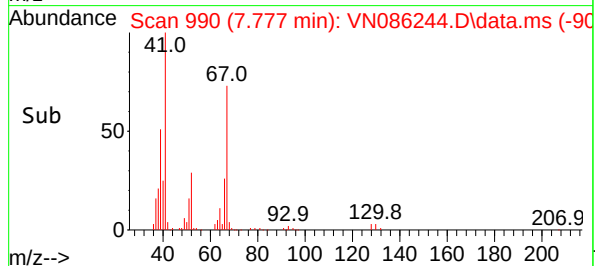
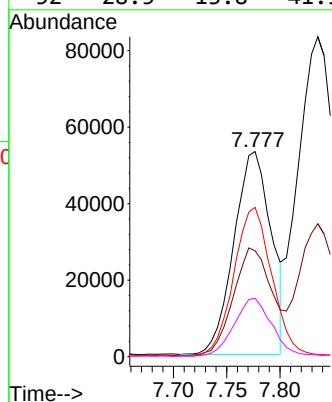
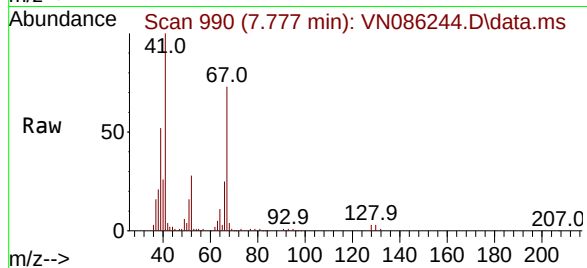
52 28.5 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 55.252 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086244.D

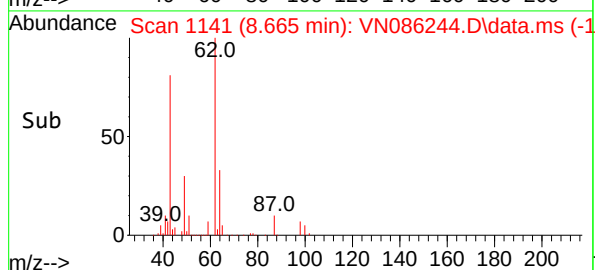
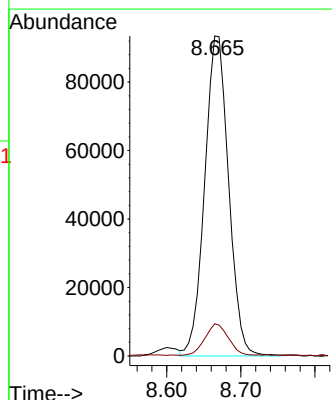
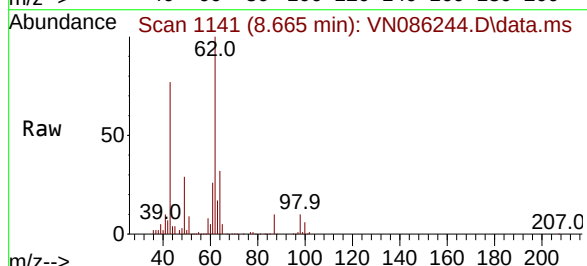
Acq: 11 Apr 2025 11:52

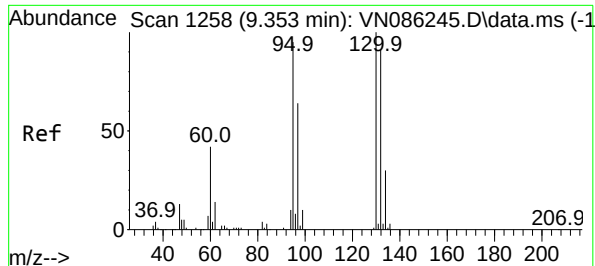
Tgt Ion: 62 Resp: 209738

Ion Ratio Lower Upper

62 100

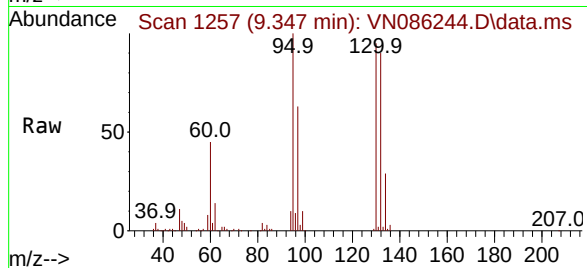
98 9.5 8.6 12.8





#37
Trichloroethene
Concen: 56.109 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

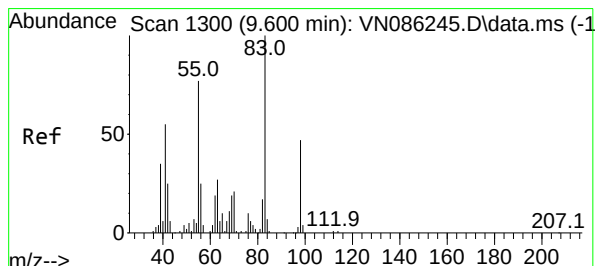
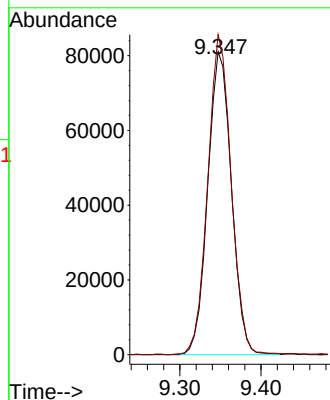
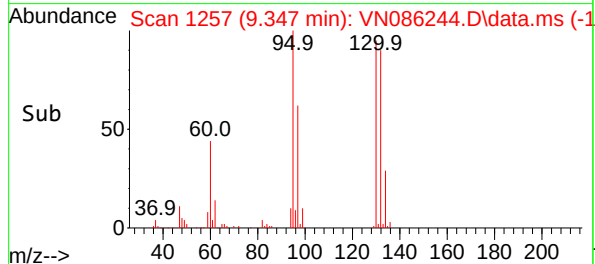
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:130 Resp: 164224
Ion Ratio Lower Upper
130 100
95 105.2 76.4 114.6

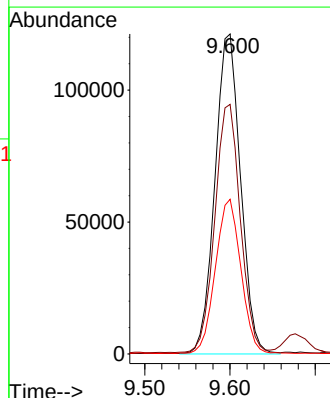
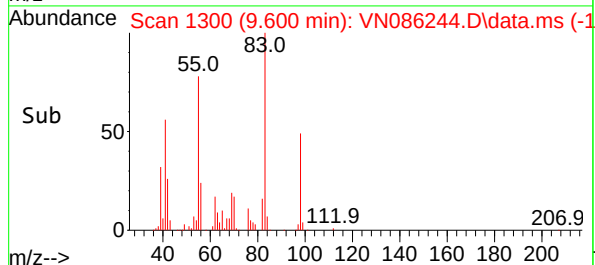
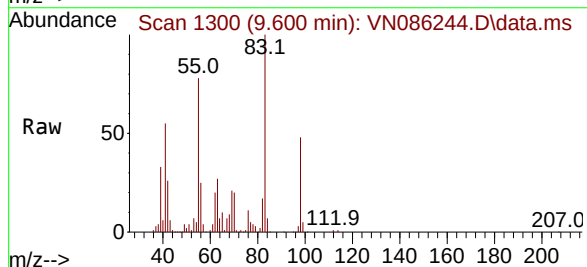
Manual Integrations
APPROVED

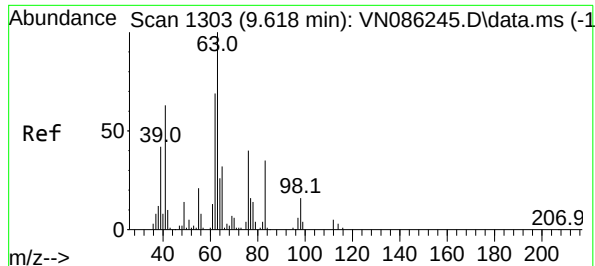
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#38
Methylcyclohexane
Concen: 54.191 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 83 Resp: 253415
Ion Ratio Lower Upper
83 100
55 77.0 38.5 115.5
98 47.8 24.4 73.2





#39

1,2-Dichloropropane

Concen: 55.783 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 168378

Ion Ratio Lower Upper

63 100

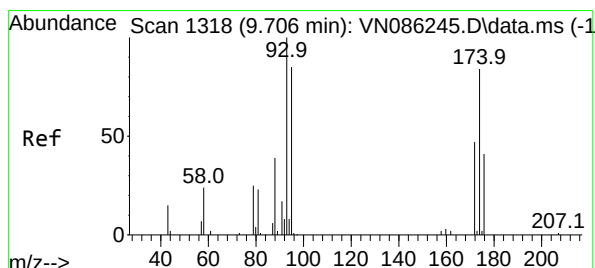
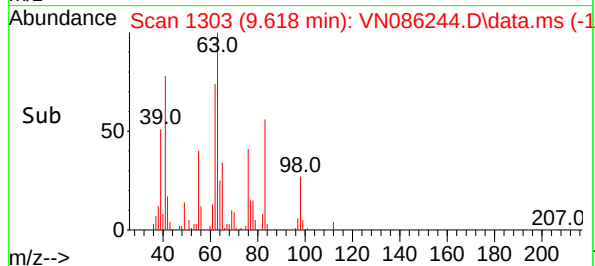
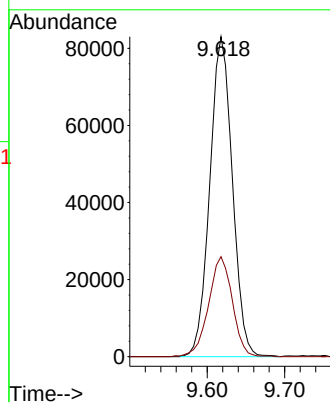
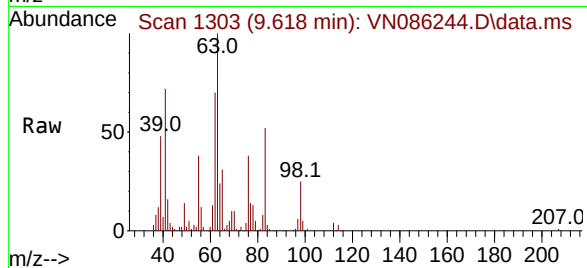
65 31.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 54.730 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

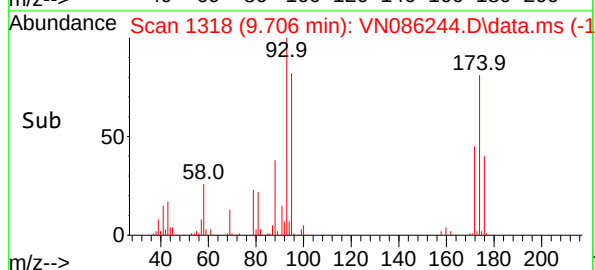
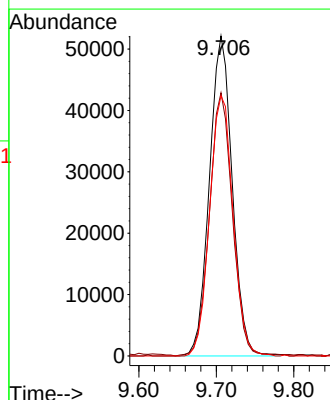
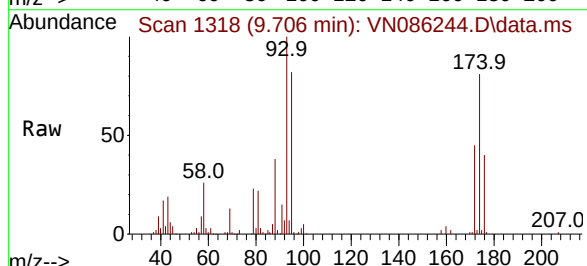
Tgt Ion: 93 Resp: 106697

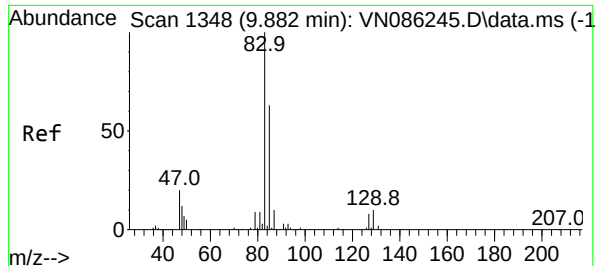
Ion Ratio Lower Upper

93 100

95 82.5 0.0 169.0

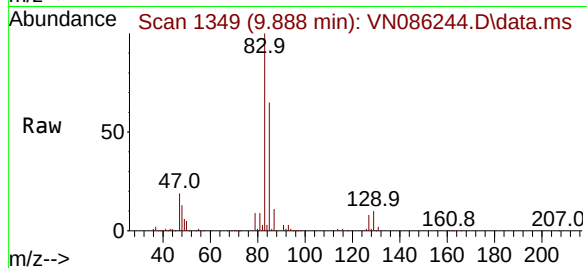
174 83.6 0.0 168.0





#41
Bromodichloromethane
Concen: 53.865 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

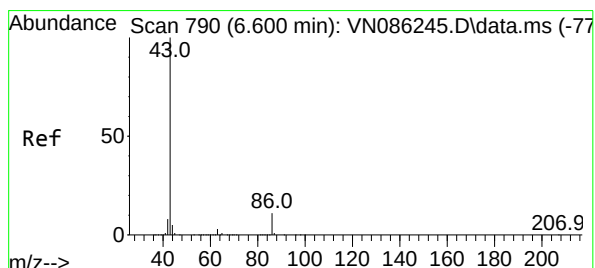
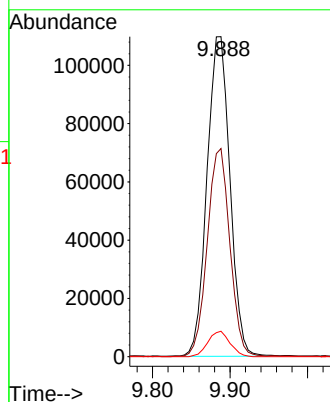
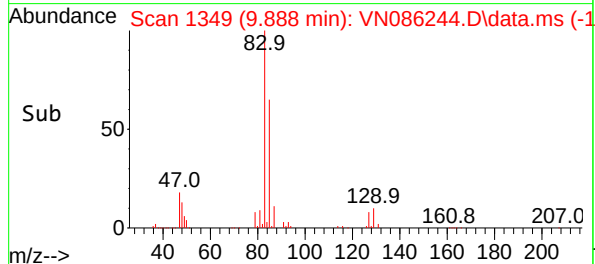
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 83 Resp: 225600
Ion Ratio Lower Upper
83 100
85 65.0 50.2 75.2
127 8.0 6.2 9.4

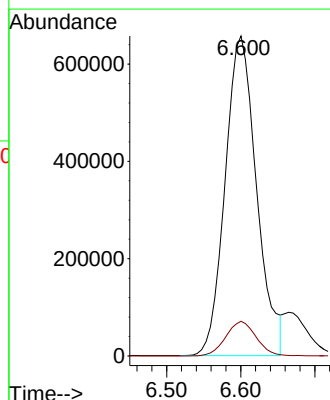
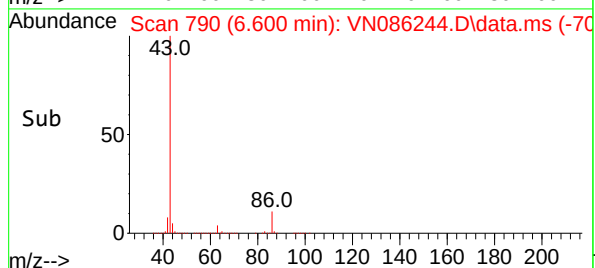
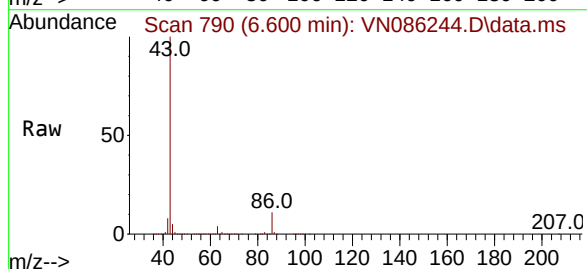
Manual Integrations
APPROVED

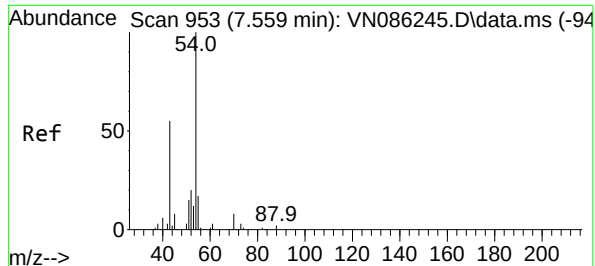
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 269.341 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 1937093
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6





#43

Ethyl Acetate

Concen: 54.775 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 23343

Ion Ratio Lower Upper

43 100

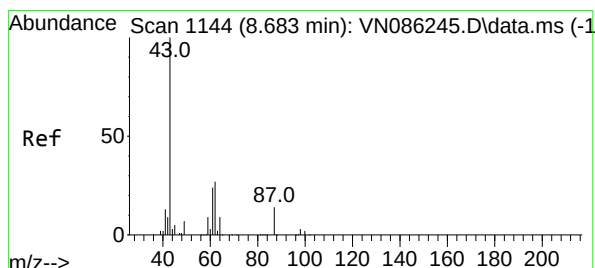
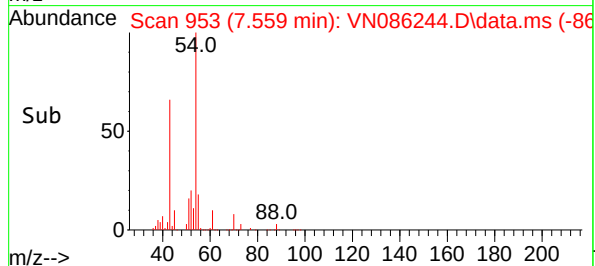
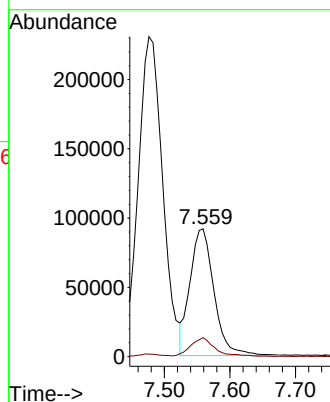
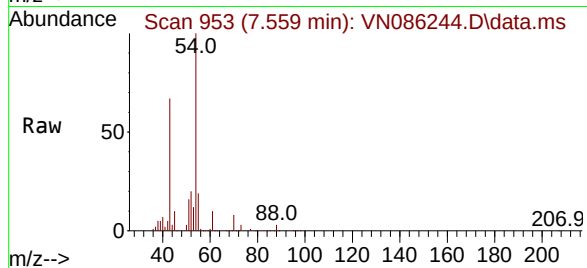
45 14.6 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#44

Isopropyl Acetate

Concen: 53.034 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086244.D

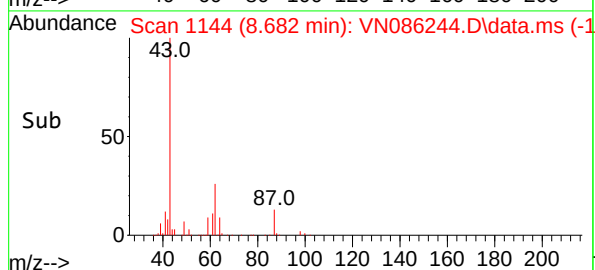
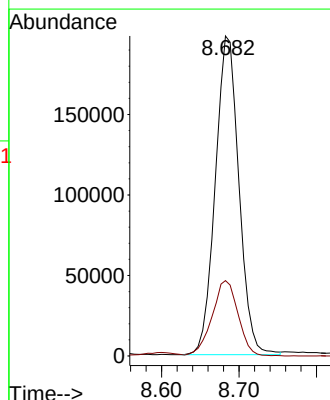
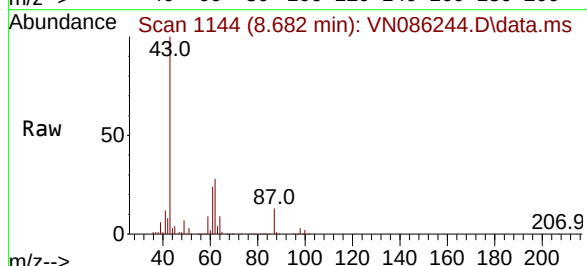
Acq: 11 Apr 2025 11:52

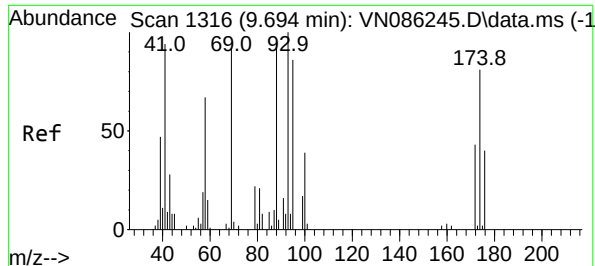
Tgt Ion: 43 Resp: 419280

Ion Ratio Lower Upper

43 100

61 26.1 20.5 30.7





#45

1,4-Dioxane

Concen: 1134.960 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

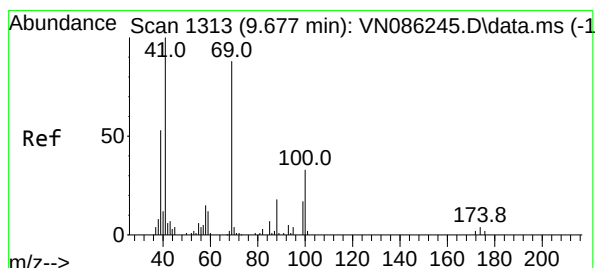
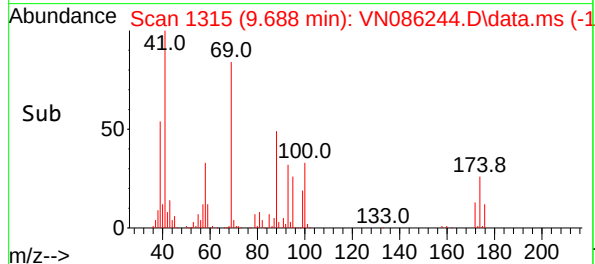
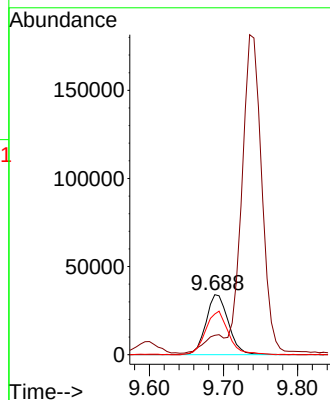
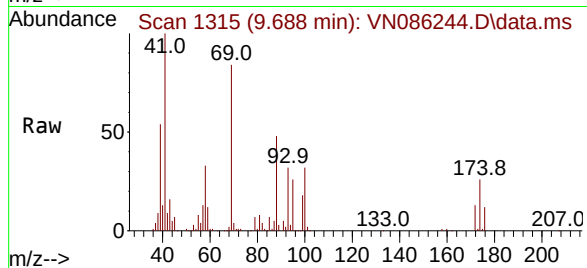
Tgt Ion:	88	Resp:	7135
Ion	Ratio	Lower	Upper
88	100		
43	27.1	14.4	21.6
58	74.0	59.8	89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 56.778 ug/l

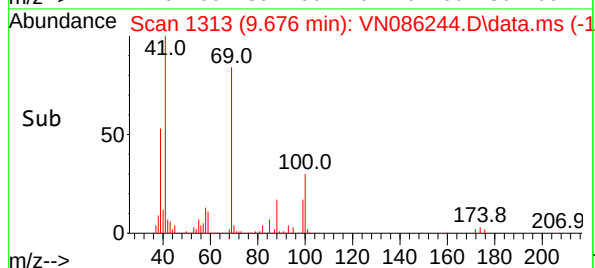
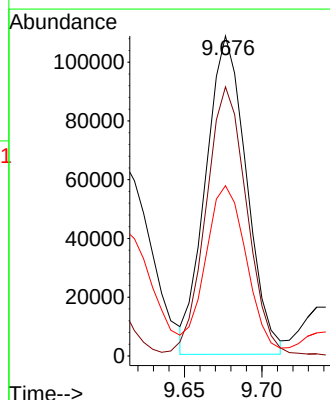
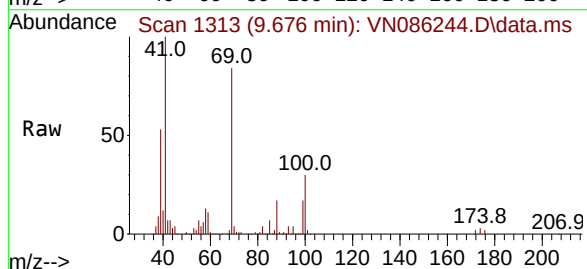
RT: 9.676 min Scan# 1313

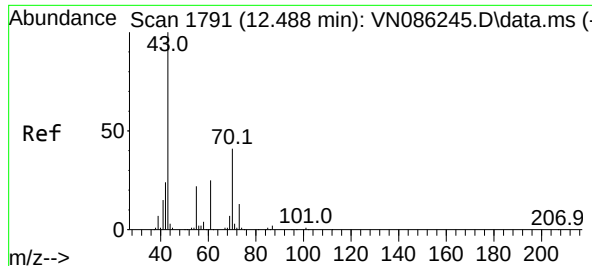
Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion:	41	Resp:	197782
Ion	Ratio	Lower	Upper
41	100		
69	85.6	43.2	129.6
39	53.3	26.4	79.0





#47

n-amy1 Acetate

Concen: 55.417 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 43 Resp: 354004

Ion Ratio Lower Upper

43 100

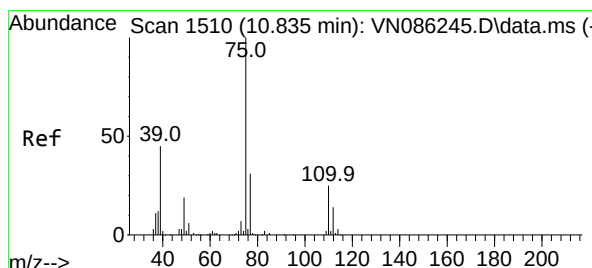
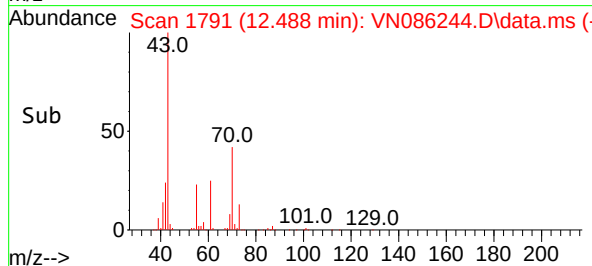
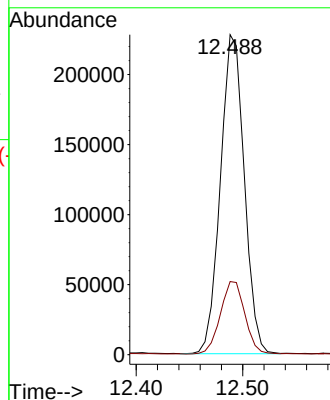
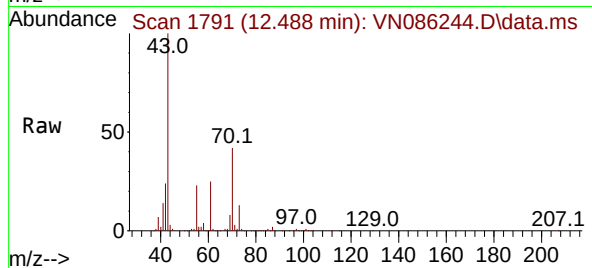
55 23.3 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 55.817 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN086244.D

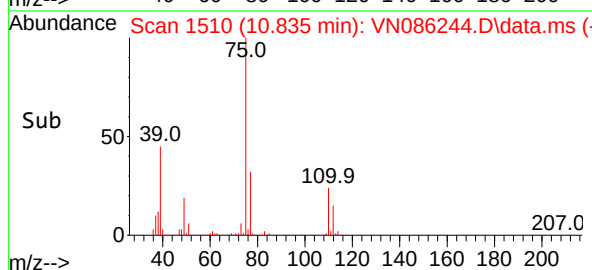
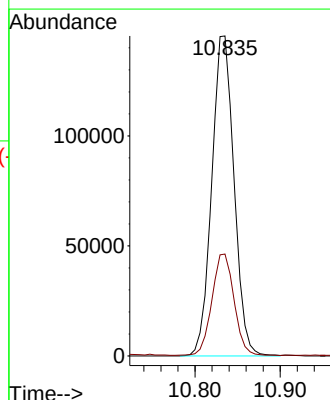
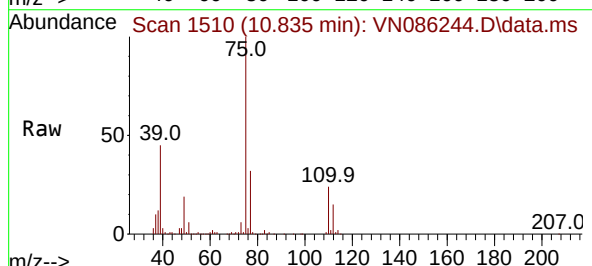
Acq: 11 Apr 2025 11:52

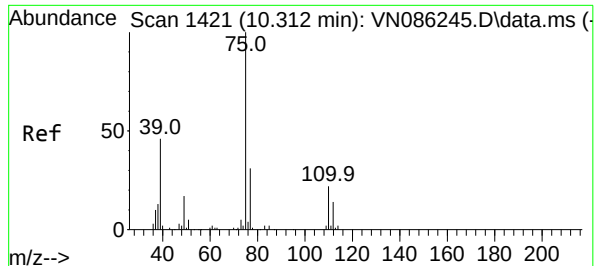
Tgt Ion: 75 Resp: 264279

Ion Ratio Lower Upper

75 100

77 31.7 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 55.377 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 277500

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4

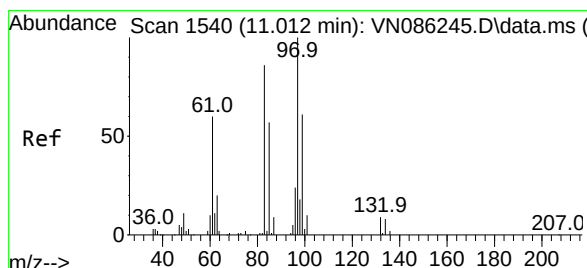
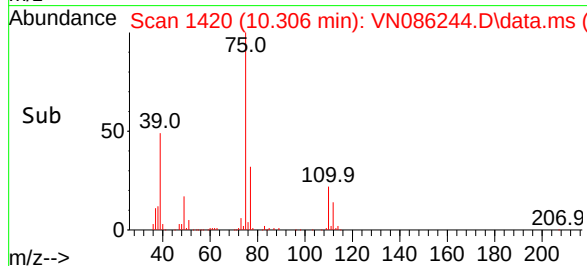
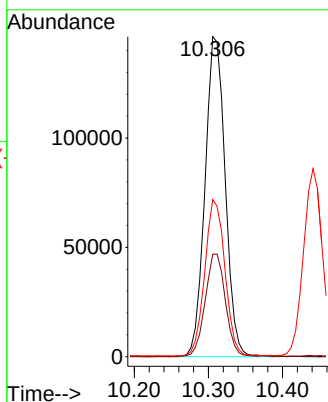
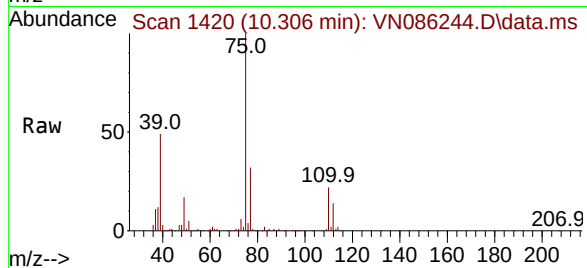
39 48.8 36.7 55.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#50

1,1,2-Trichloroethane

Concen: 54.493 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion: 97 Resp: 149001

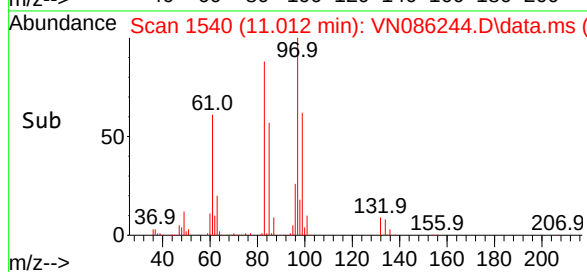
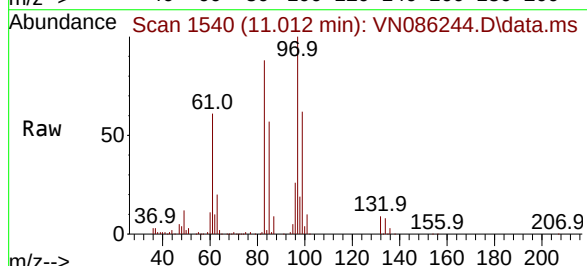
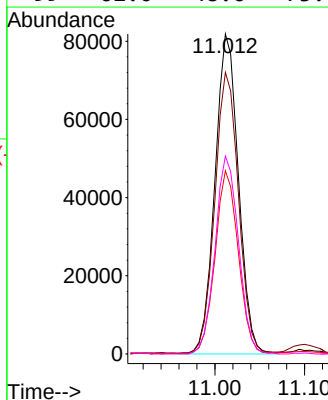
Ion Ratio Lower Upper

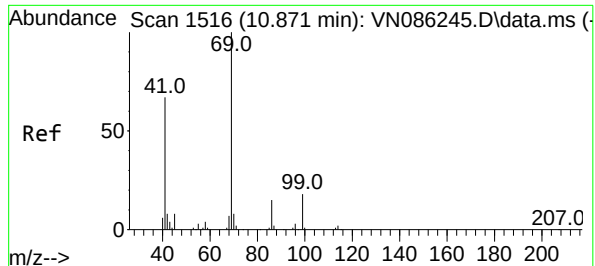
97 100

83 88.0 68.6 103.0

85 57.2 45.9 68.9

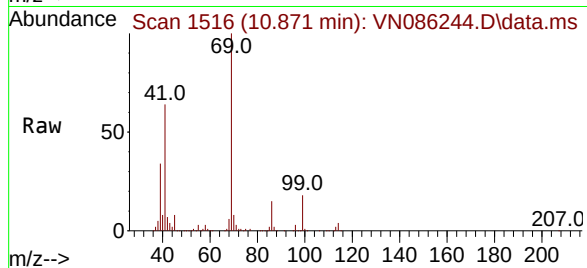
99 62.0 48.6 73.0





#51
Ethyl methacrylate
Concen: 55.717 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

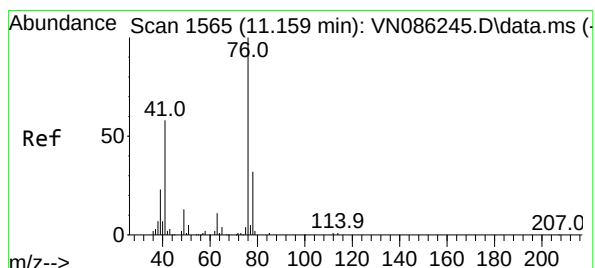
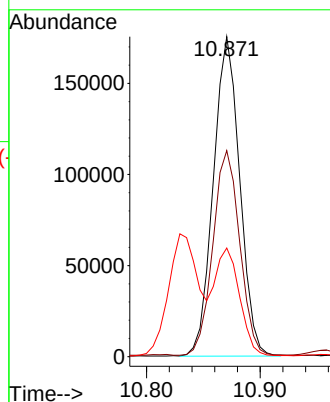
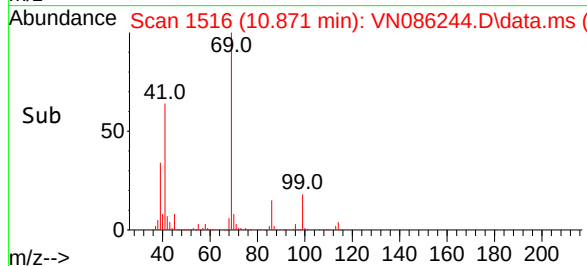
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 69 Resp: 283112
Ion Ratio Lower Upper
69 100
41 64.1 33.6 100.6
39 33.6 17.8 53.4

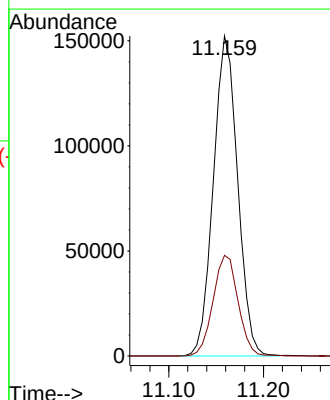
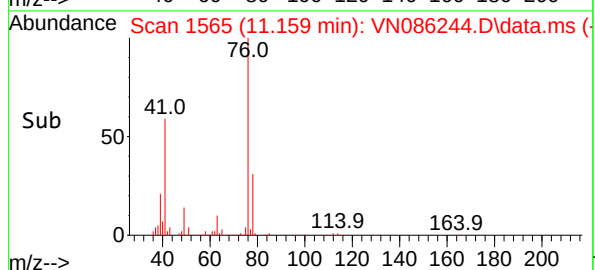
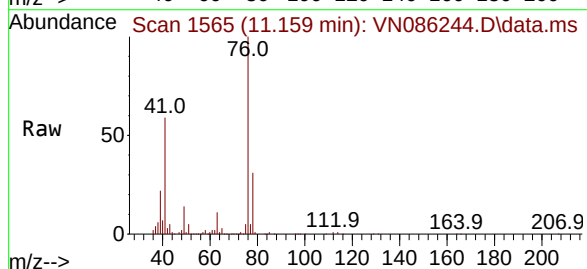
Manual Integrations
APPROVED

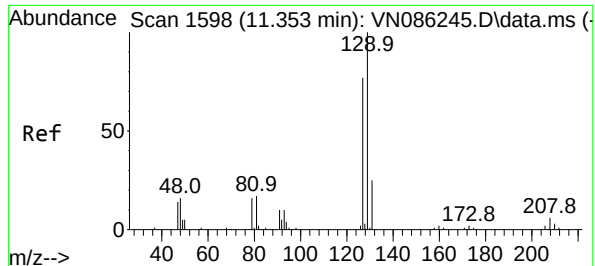
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 55.609 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

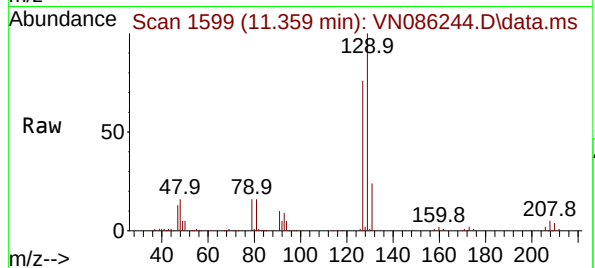
Tgt Ion: 76 Resp: 271010
Ion Ratio Lower Upper
76 100
78 32.4 0.0 64.6





#53
Dibromochloromethane
Concen: 55.616 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

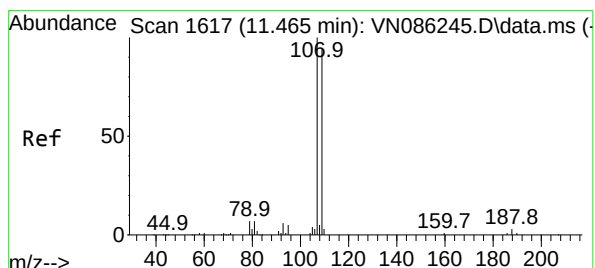
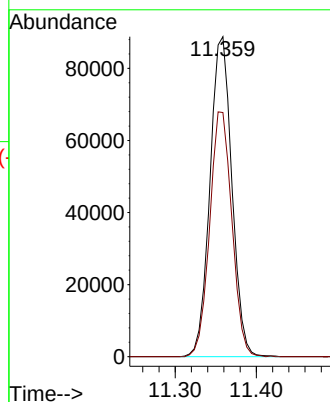
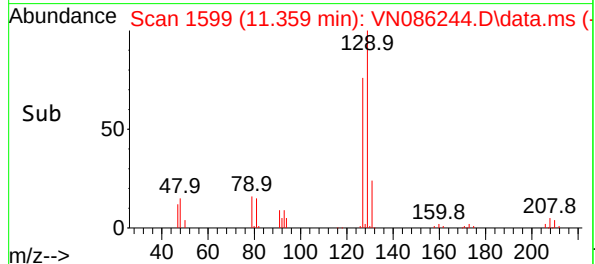
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



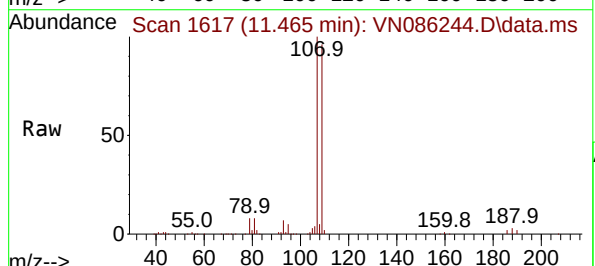
Tgt Ion:129 Resp: 16634
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5

Manual Integrations
APPROVED

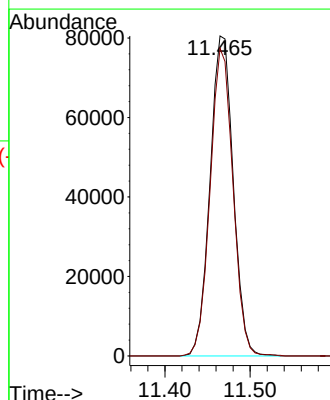
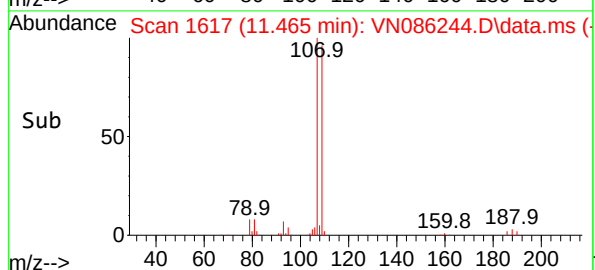
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

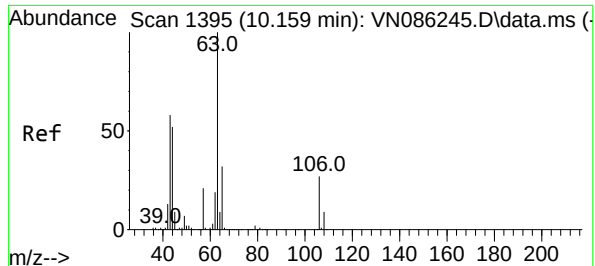


#54
1,2-Dibromoethane
Concen: 55.141 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52



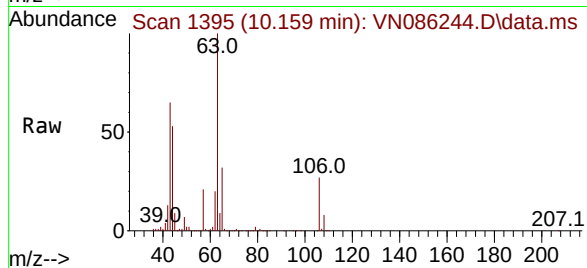
Tgt Ion:107 Resp: 152197
Ion Ratio Lower Upper
107 100
109 94.4 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 357.238 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

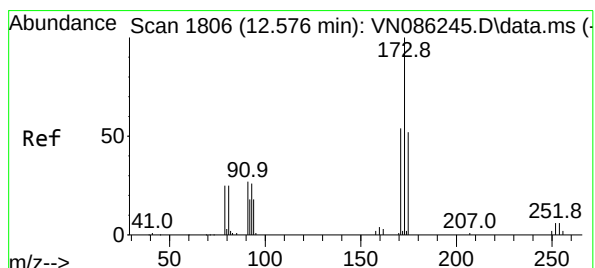
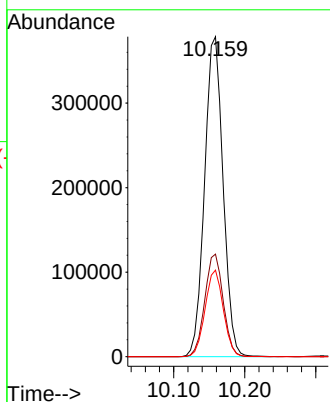
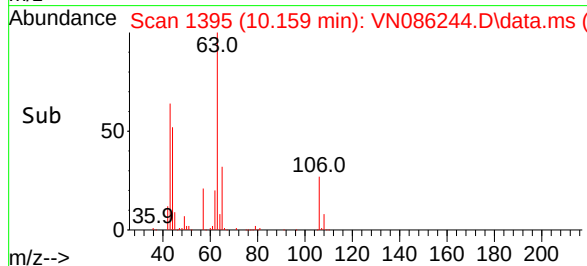
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 63 Resp: 685910
Ion Ratio Lower Upper
63 100
65 31.9 25.8 38.8
106 26.7 21.8 32.8

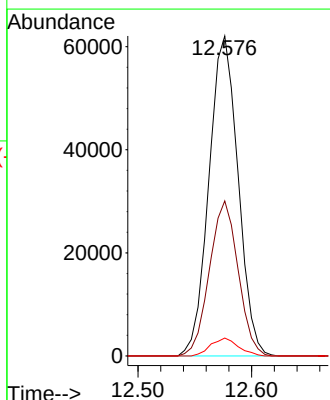
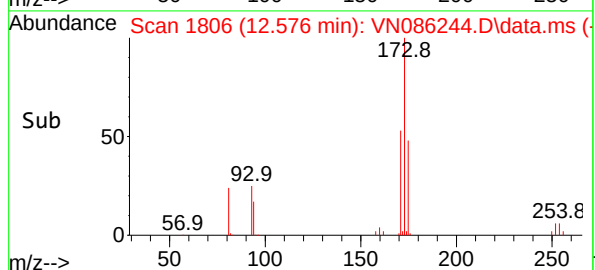
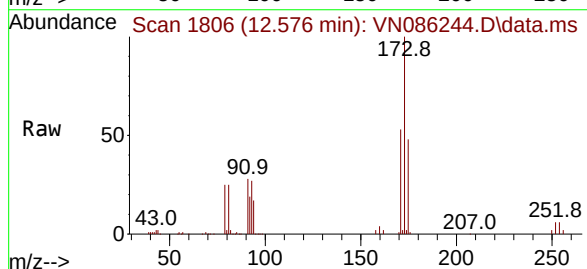
Manual Integrations
APPROVED

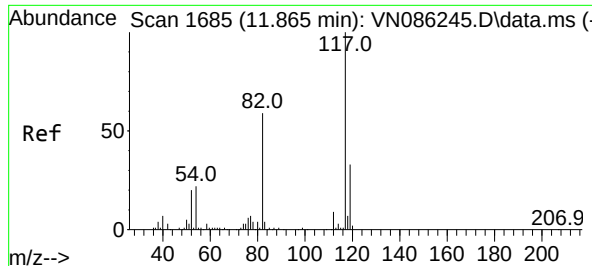
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 56.534 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

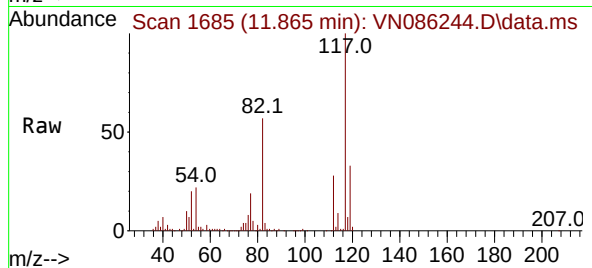
Tgt Ion:173 Resp: 110623
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.4
254 5.3 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

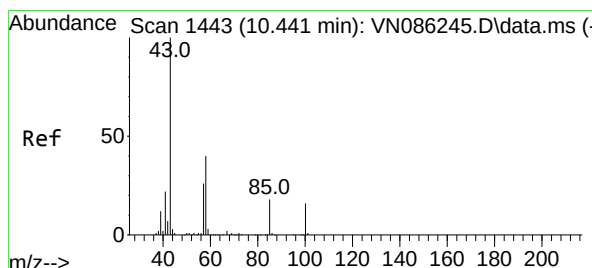
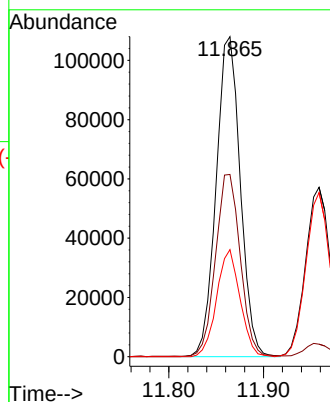
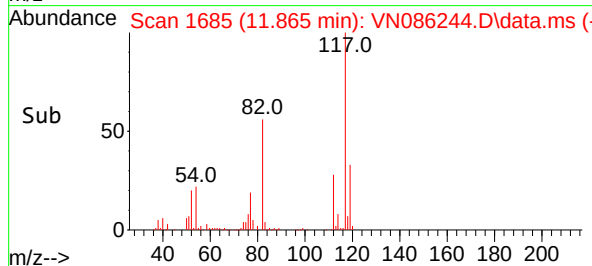
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 117 Resp: 191848
Ion Ratio Lower Upper
117 100
82 58.1 47.3 70.9
119 32.4 25.9 38.9

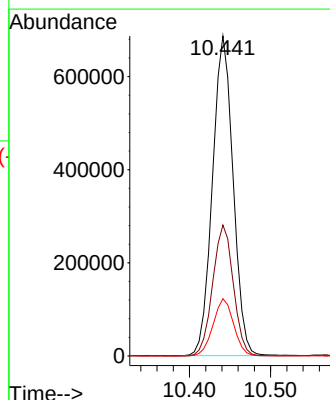
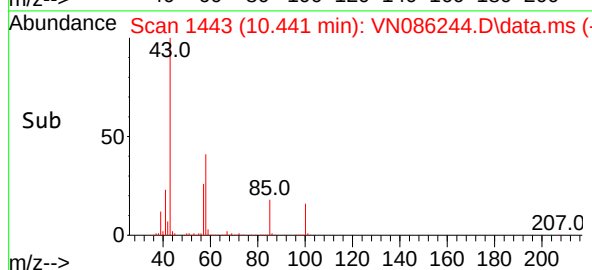
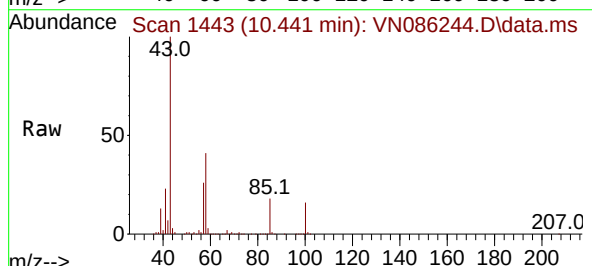
Manual Integrations
APPROVED

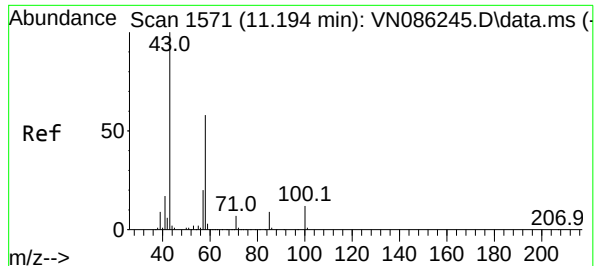
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 278.421 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

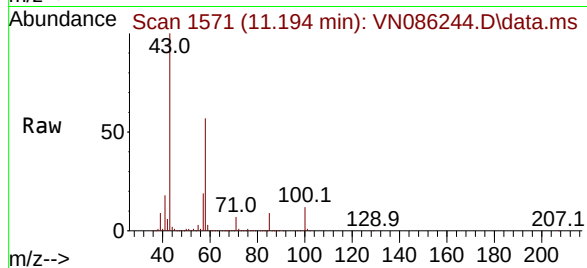
Tgt Ion: 43 Resp: 1212140
Ion Ratio Lower Upper
43 100
58 41.0 32.5 48.7
85 17.8 14.4 21.6





#59
2-Hexanone
Concen: 281.386 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

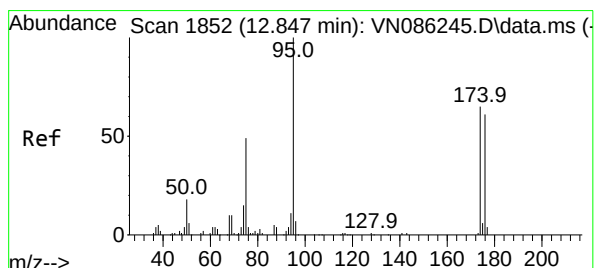
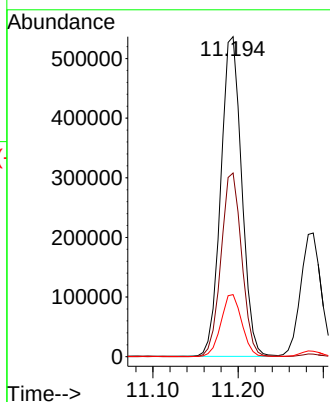
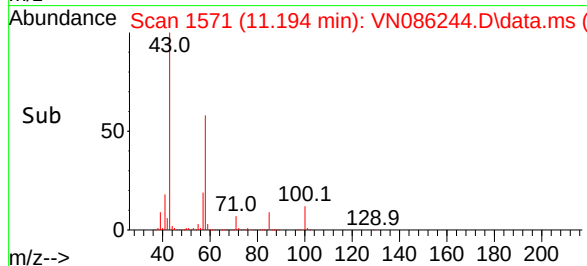
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 43 Resp: 912200
Ion Ratio Lower Upper
43 100
58 57.0 45.3 67.9
57 19.4 15.8 23.6

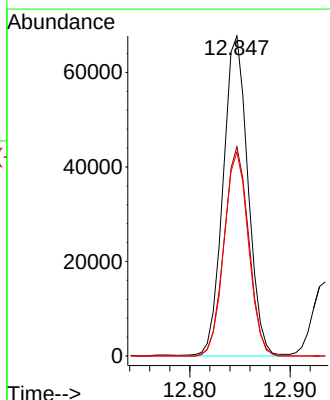
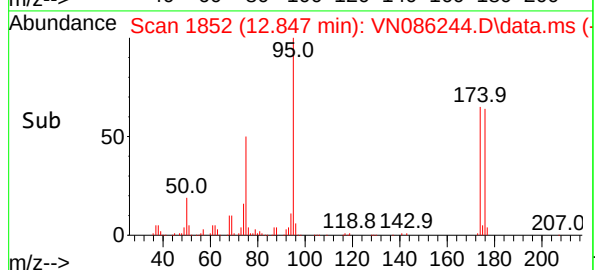
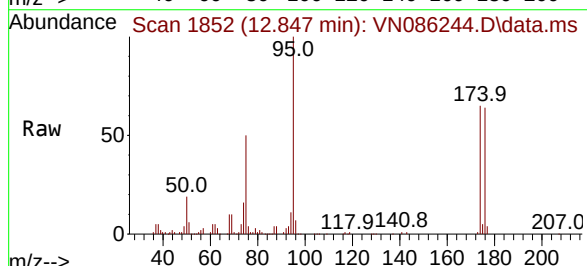
Manual Integrations
APPROVED

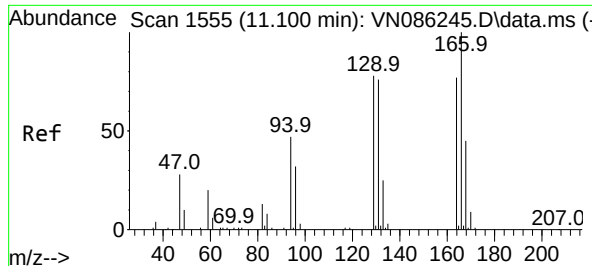
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 30.469 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

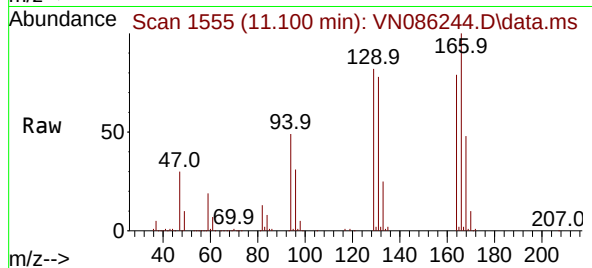
Tgt Ion: 95 Resp: 116379
Ion Ratio Lower Upper
95 100
174 64.5 52.7 79.1
176 62.7 49.8 74.8





#61
Tetrachloroethene
Concen: 56.555 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

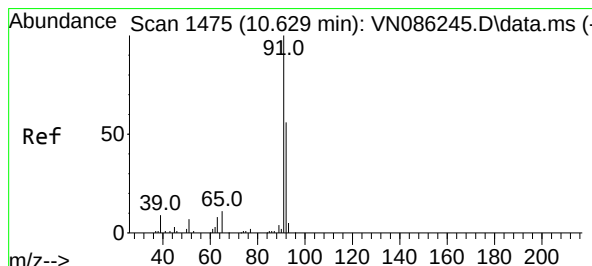
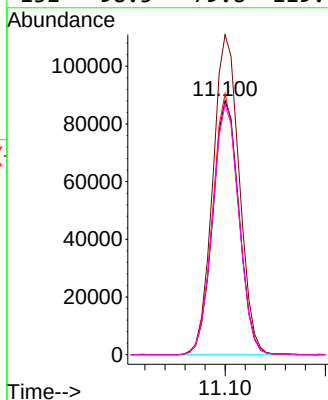
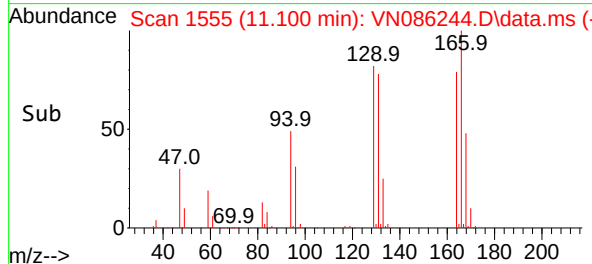
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:164 Resp: 160227
Ion Ratio Lower Upper
164 100
166 126.0 104.5 156.7
129 102.7 81.7 122.5
131 98.5 79.8 119.6

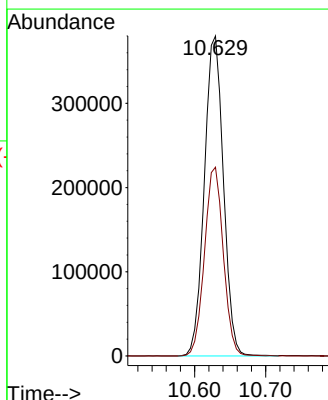
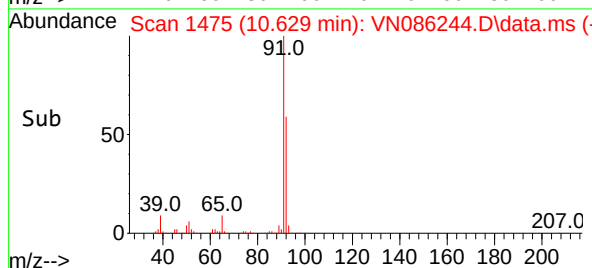
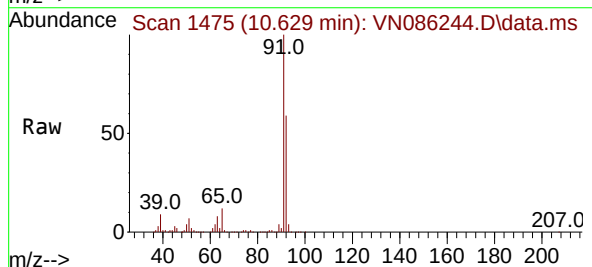
Manual Integrations
APPROVED

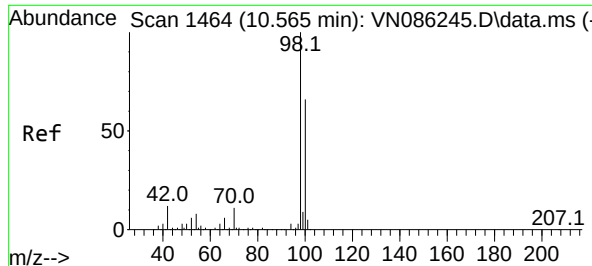
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 55.140 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

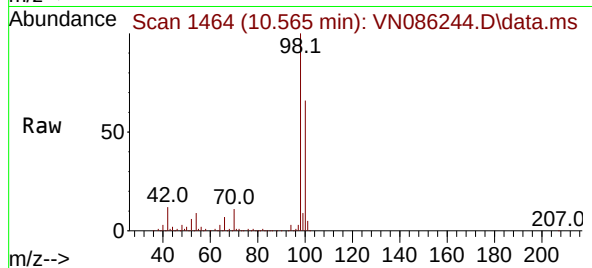
Tgt Ion: 91 Resp: 709533
Ion Ratio Lower Upper
91 100
92 58.3 46.8 70.2





#63
Toluene-d8
Concen: 29.660 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

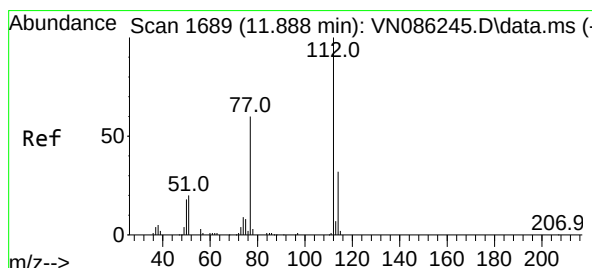
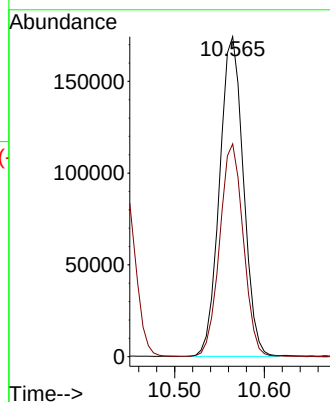
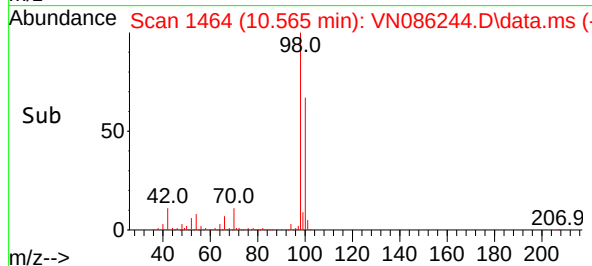
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 98 Resp: 32124
Ion Ratio Lower Upper
98 100
100 66.1 52.3 78.5

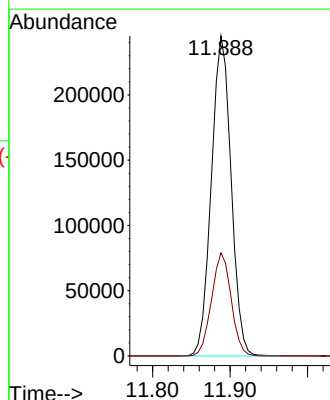
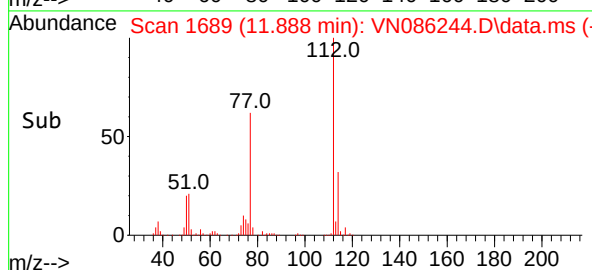
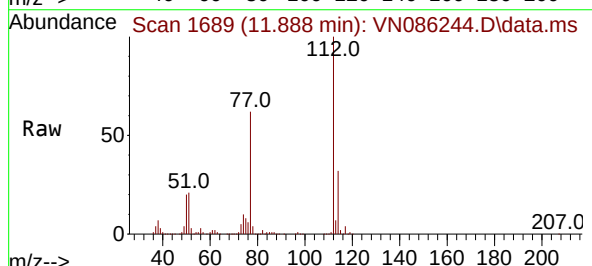
Manual Integrations
APPROVED

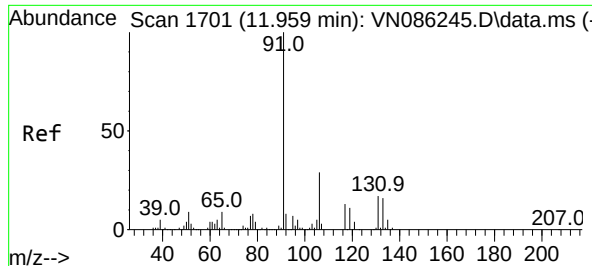
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 55.211 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:112 Resp: 434051
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6





#65

1,1,1,2-Tetrachloroethane

Concen: 56.068 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion:131 Resp: 145468

Ion Ratio Lower Upper

131 100

133 94.4 0.0 190.4

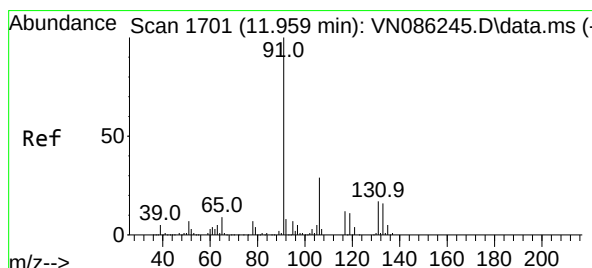
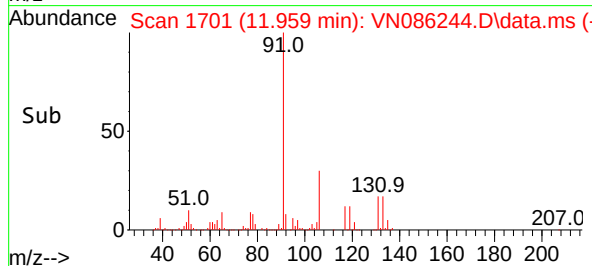
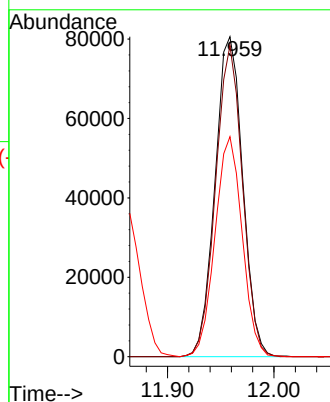
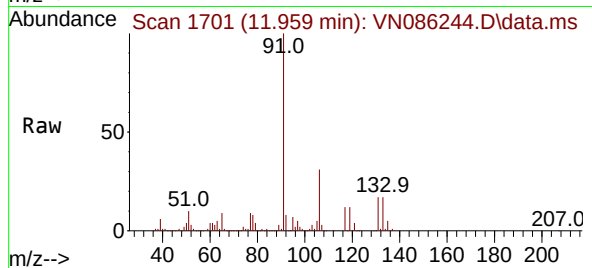
119 67.5 0.0 135.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#66

Ethyl Benzene

Concen: 55.917 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086244.D

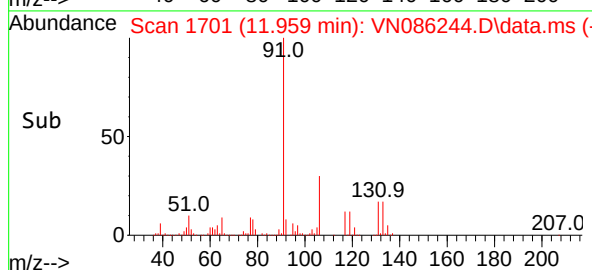
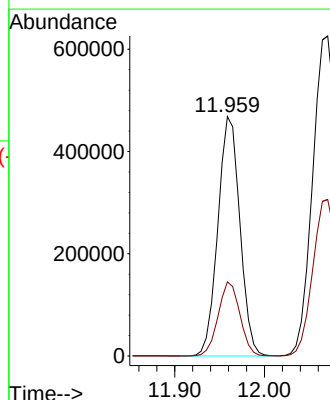
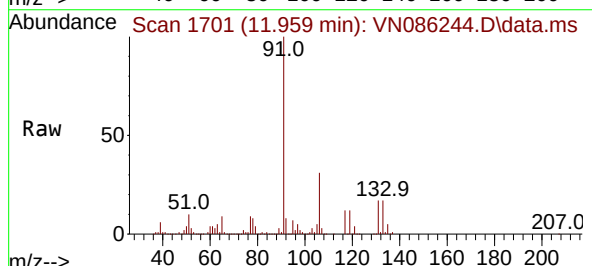
Acq: 11 Apr 2025 11:52

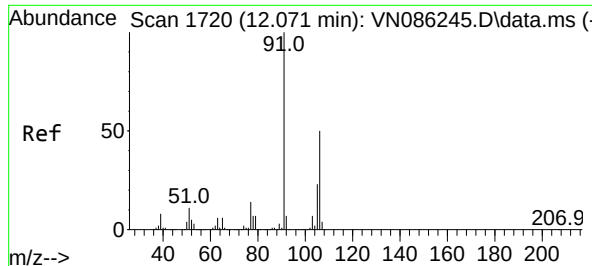
Tgt Ion: 91 Resp: 797966

Ion Ratio Lower Upper

91 100

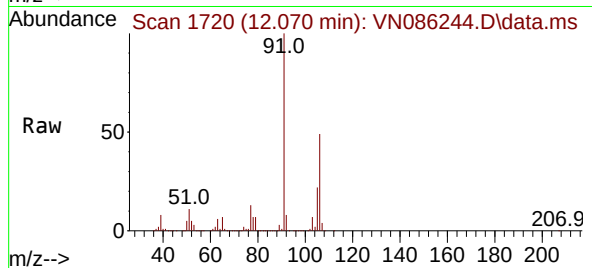
106 30.9 23.4 35.0





#67
m/p-Xylenes
Concen: 113.164 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

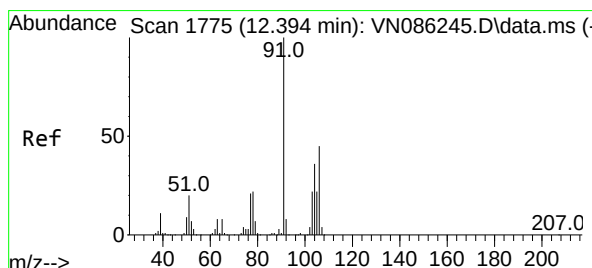
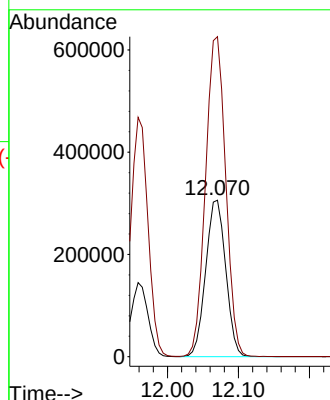
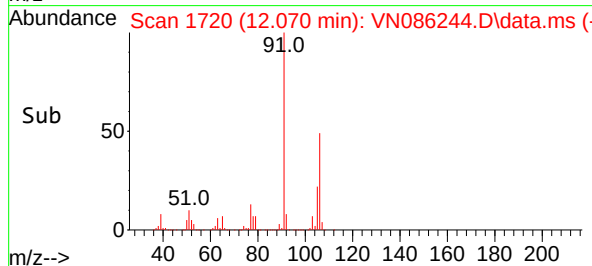
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:106 Resp: 600484
Ion Ratio Lower Upper
106 100
91 205.7 164.5 246.7

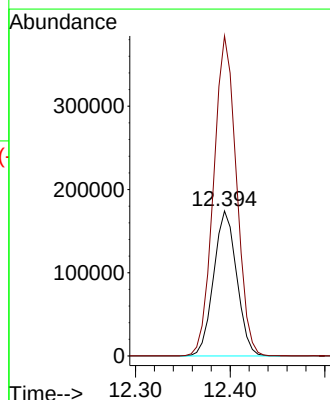
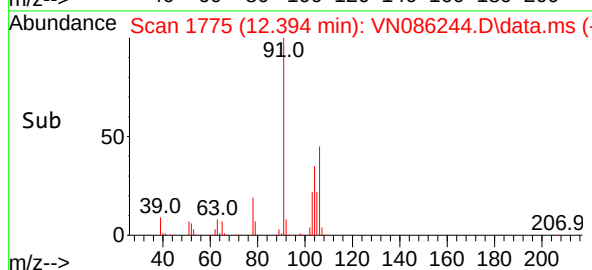
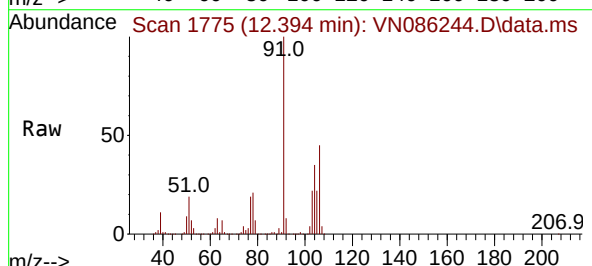
Manual Integrations
APPROVED

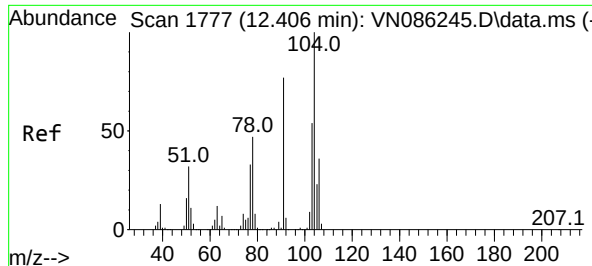
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 56.428 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

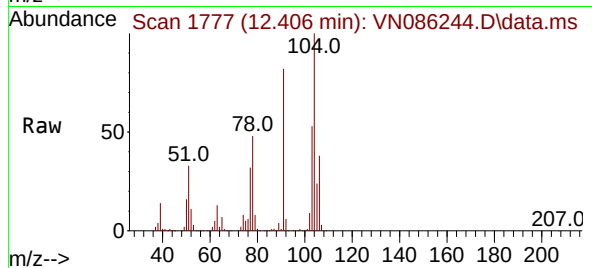
Tgt Ion:106 Resp: 294512
Ion Ratio Lower Upper
106 100
91 218.4 109.8 329.4





#69
Styrene
Concen: 56.790 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

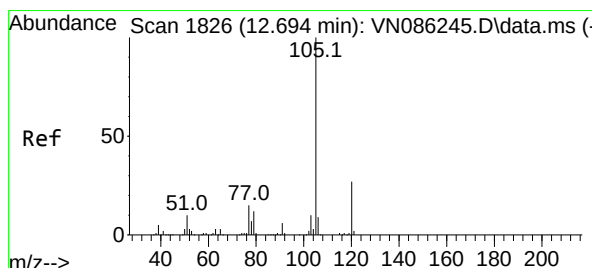
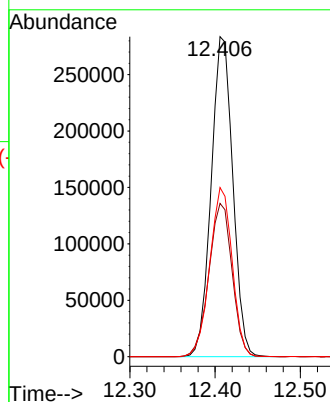
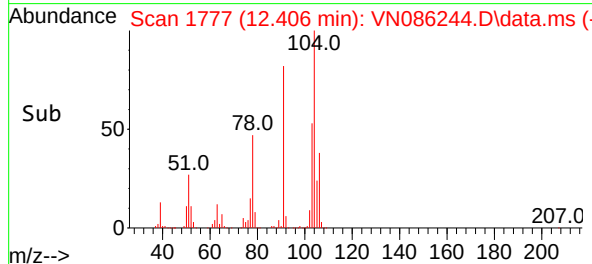
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:104 Resp: 499880
Ion Ratio Lower Upper
104 100
78 51.3 41.4 62.0
103 54.8 44.2 66.4

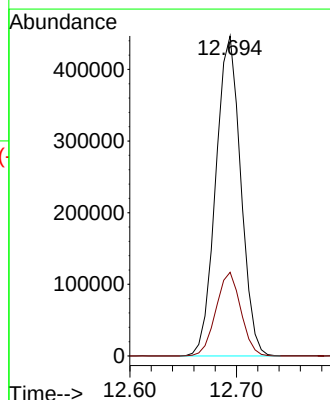
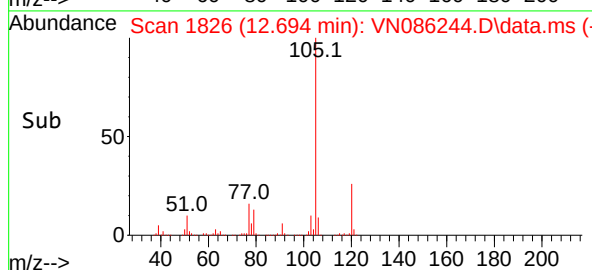
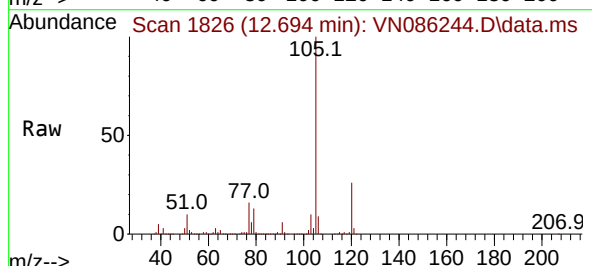
Manual Integrations
APPROVED

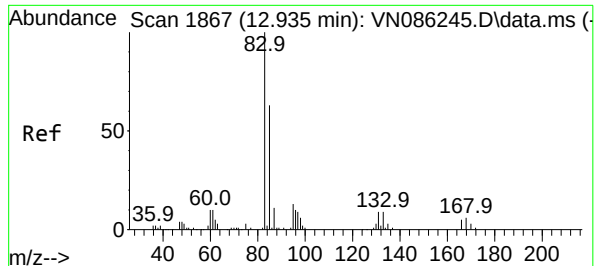
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 56.511 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:105 Resp: 727241
Ion Ratio Lower Upper
105 100
120 26.0 18.3 34.1





#71

1,1,2,2-Tetrachloroethane

Concen: 53.052 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 19432

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

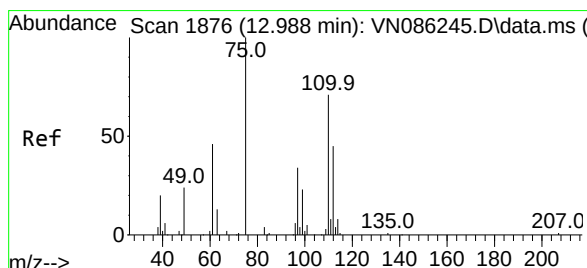
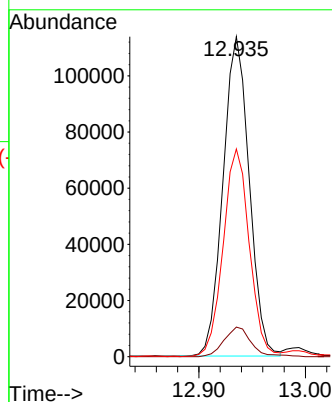
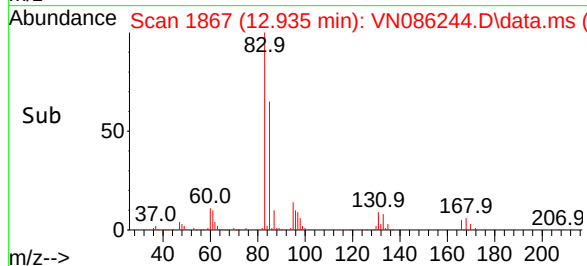
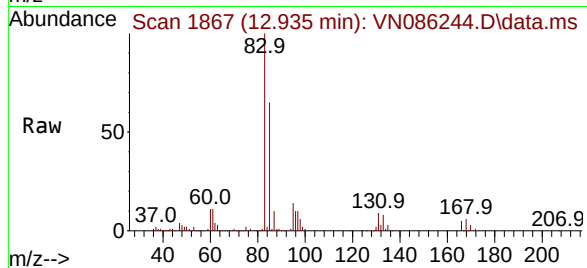
85 65.0 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#72

1,2,3-Trichloropropane

Concen: 40.824 ug/l m

RT: 12.988 min Scan# 1876

Delta R.T. -0.000 min

Lab File: VN086244.D

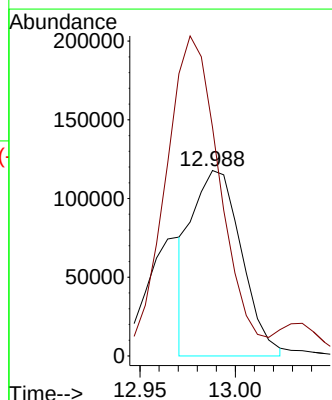
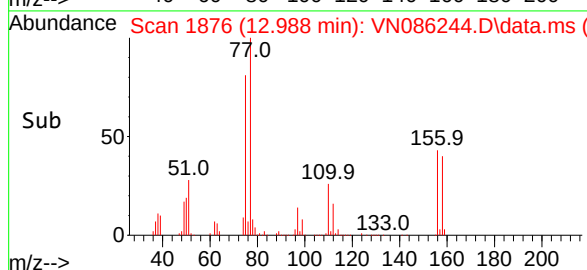
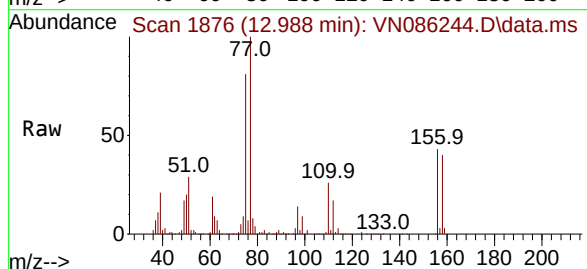
Acq: 11 Apr 2025 11:52

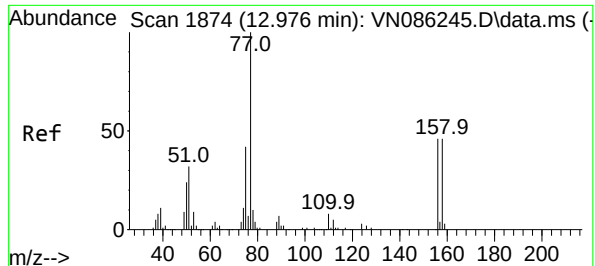
Tgt Ion: 75 Resp: 211703

Ion Ratio Lower Upper

75 100

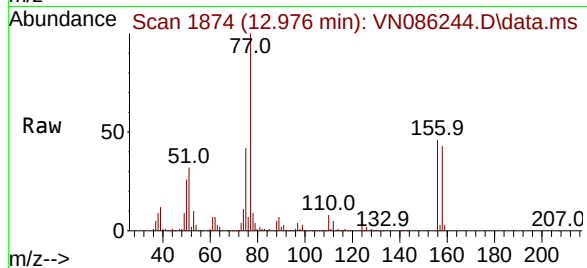
77 193.1 0.0 380.0





#73
Bromobenzene
Concen: 56.588 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

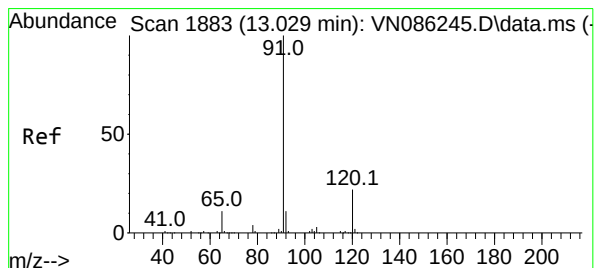
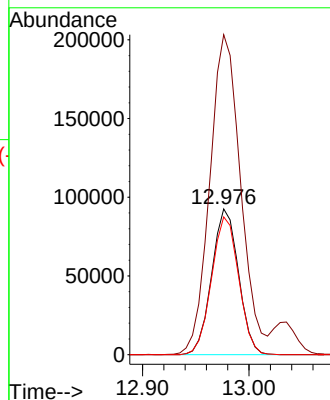
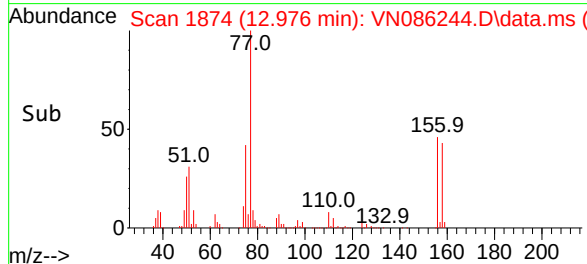
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:156 Resp: 161329
Ion Ratio Lower Upper
156 100
77 253.4 0.0 505.2
158 95.7 0.0 195.0

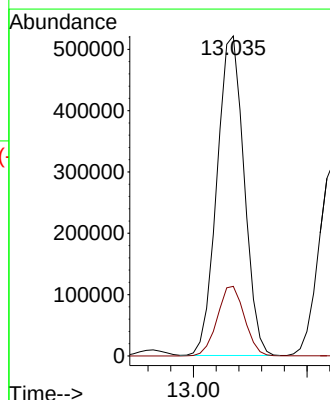
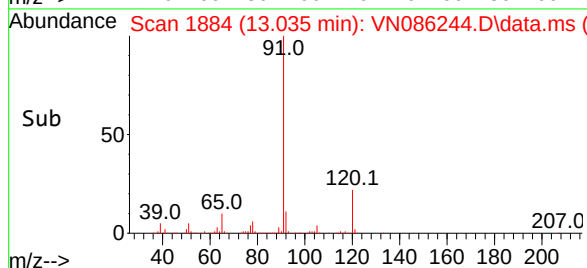
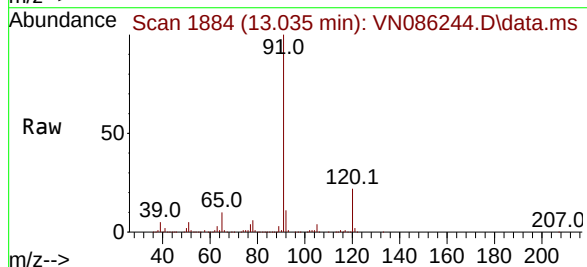
Manual Integrations
APPROVED

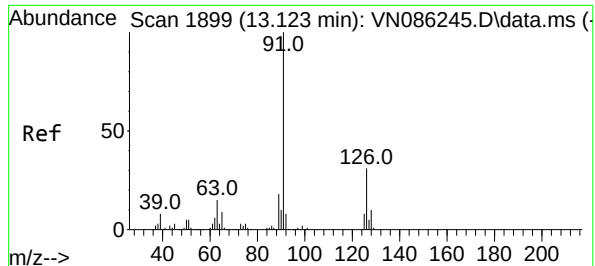
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 56.817 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

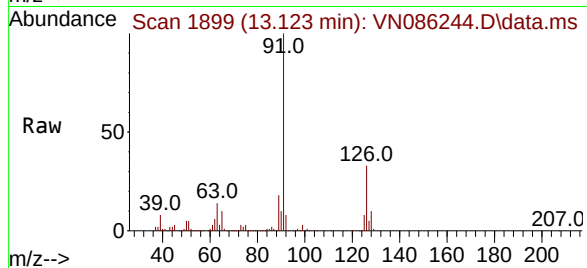
Tgt Ion: 91 Resp: 865912
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0





#75
2-Chlorotoluene
Concen: 56.468 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

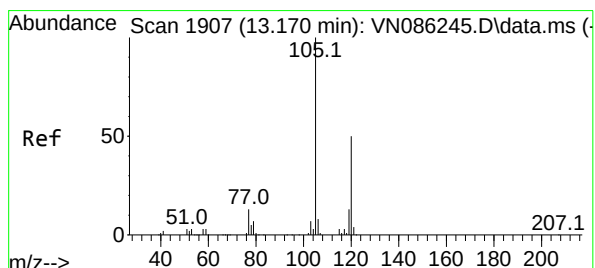
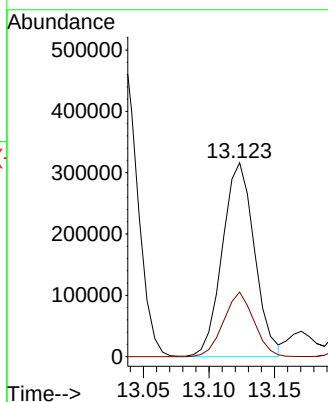
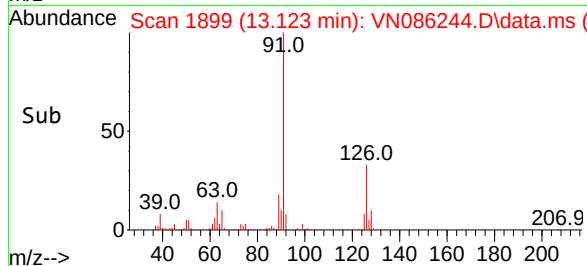
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 91 Resp: 539350
Ion Ratio Lower Upper
91 100
126 31.5 0.0 63.4

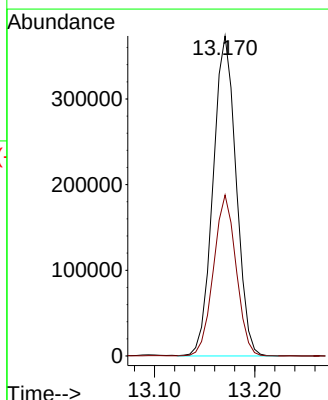
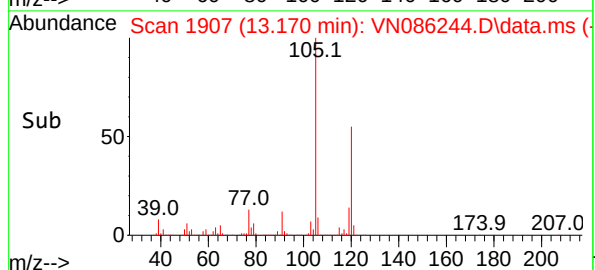
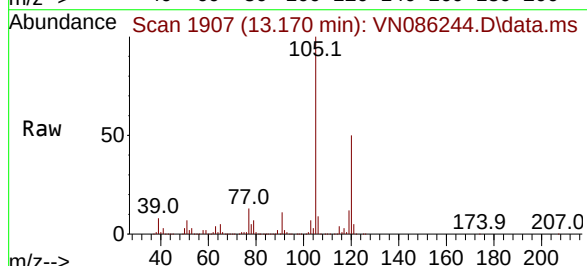
Manual Integrations
APPROVED

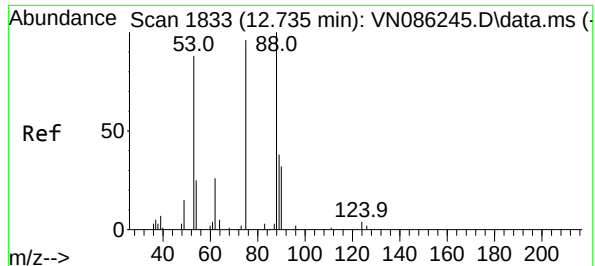
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 56.398 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:105 Resp: 596201
Ion Ratio Lower Upper
105 100
120 49.3 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 56.970 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 100158

Ion Ratio Lower Upper

75 100

53 84.3 46.4 139.2

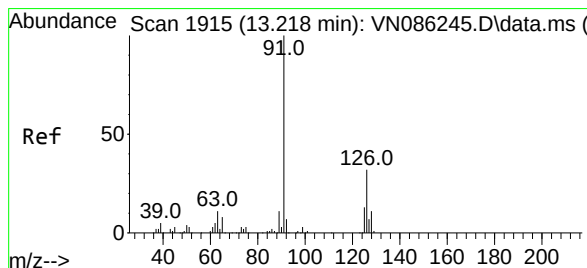
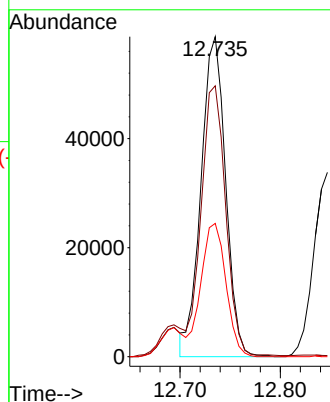
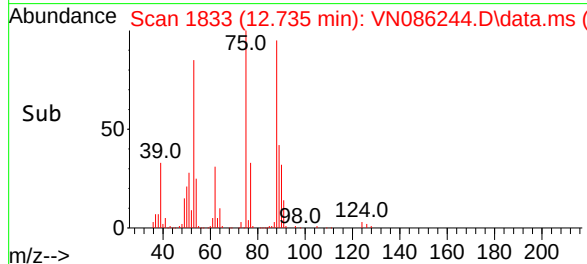
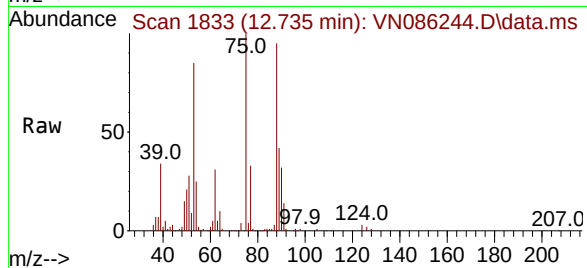
89 41.7 22.5 67.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#78

4-Chlorotoluene

Concen: 56.787 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN086244.D

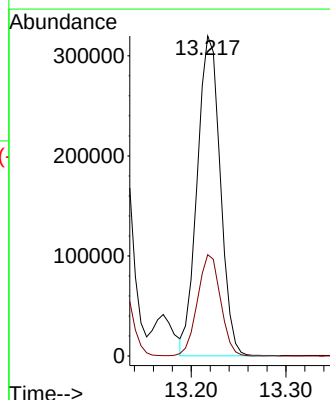
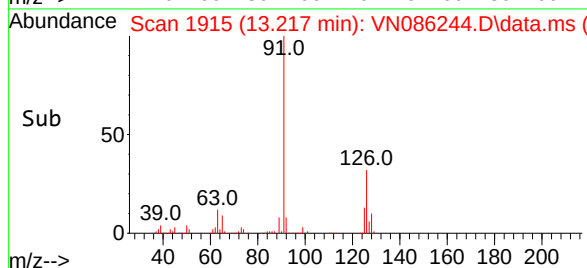
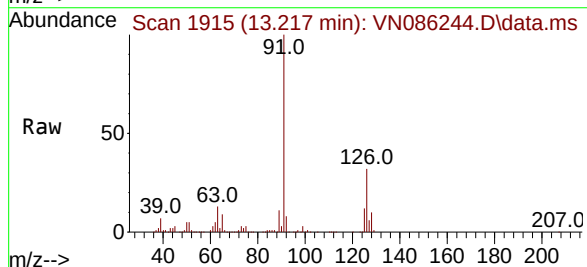
Acq: 11 Apr 2025 11:52

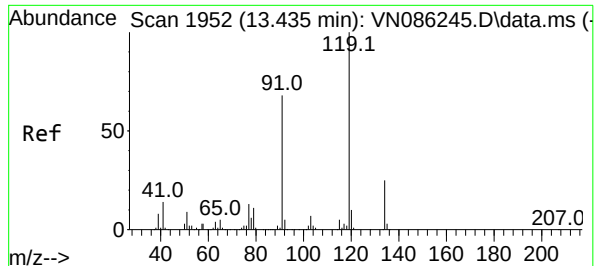
Tgt Ion: 91 Resp: 541691

Ion Ratio Lower Upper

91 100

126 31.6 0.0 63.2





#79

tert-butylbenzene

Concen: 55.374 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:119 Resp: 506518

Ion Ratio Lower Upper

119 100

91 69.1 0.0 136.6

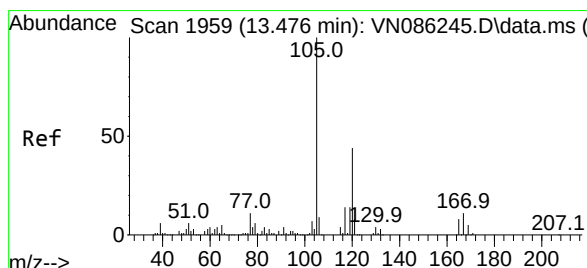
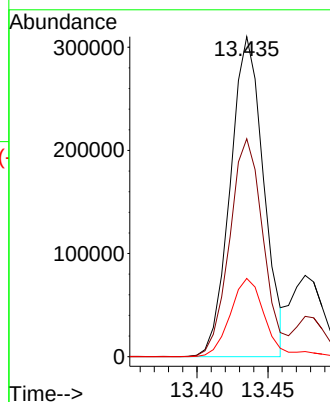
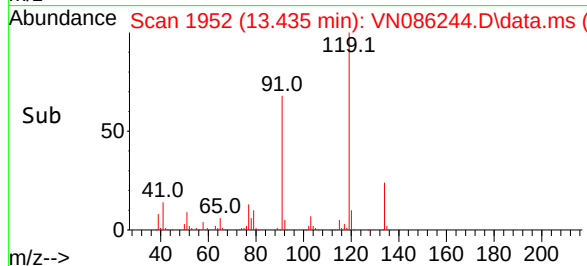
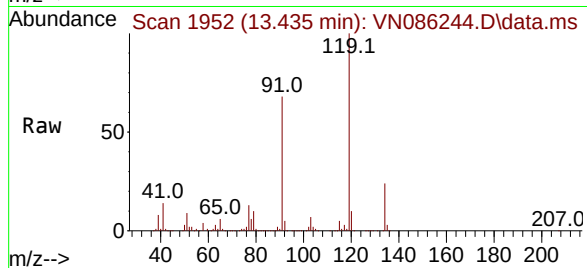
134 24.6 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 57.035 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086244.D

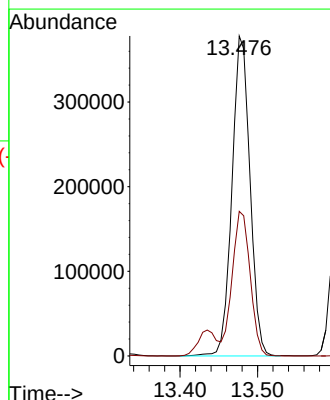
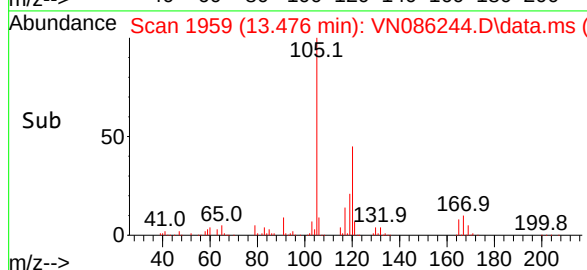
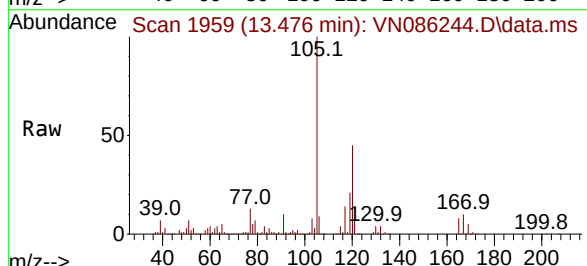
Acq: 11 Apr 2025 11:52

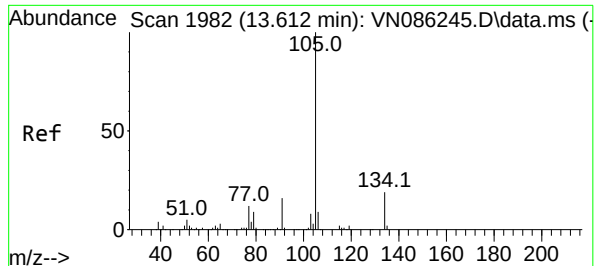
Tgt Ion:105 Resp: 611389

Ion Ratio Lower Upper

105 100

120 45.1 0.0 91.0





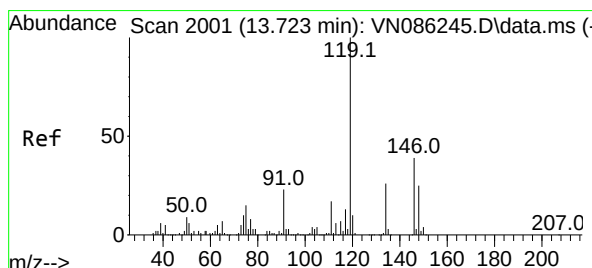
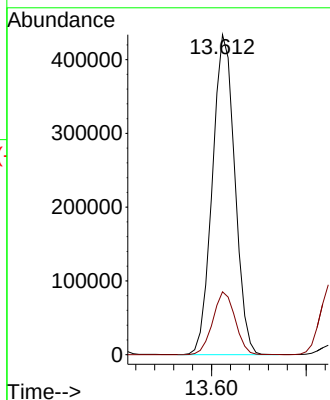
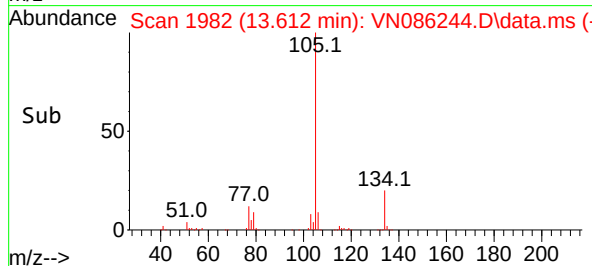
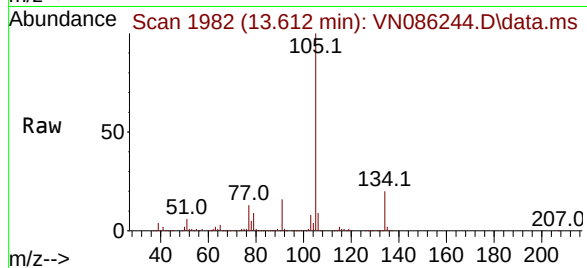
#81
sec-Butylbenzene
Concen: 55.977 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion:105 Resp: 71424
Ion Ratio Lower Upper
105 100
134 19.5 0.0 38.6

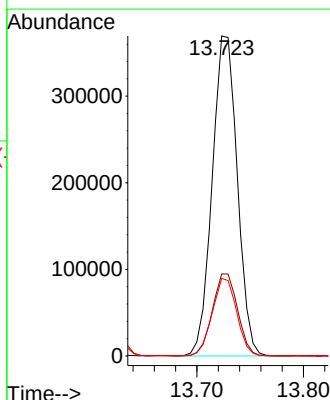
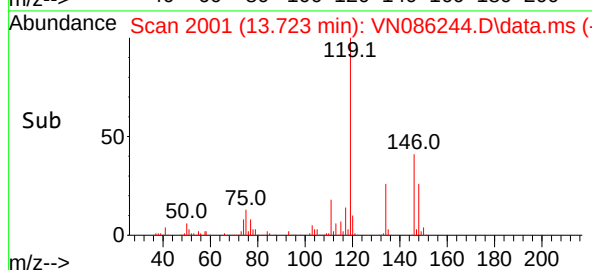
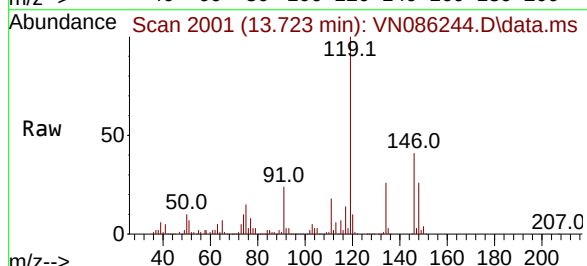
Manual Integrations
APPROVED

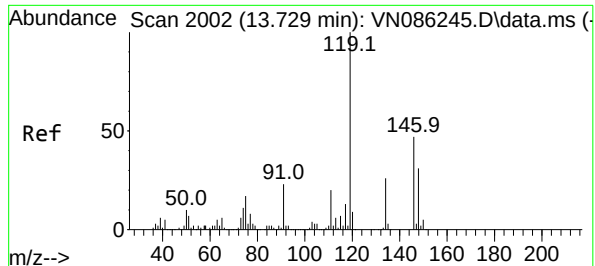
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 56.791 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

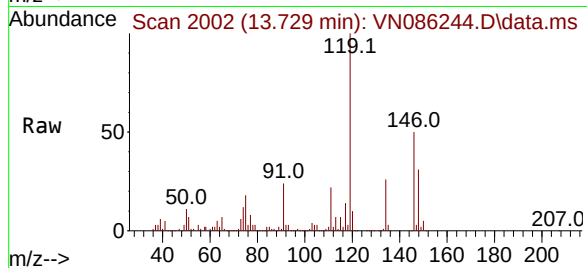
Tgt Ion:119 Resp: 604494
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 23.6 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 57.795 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

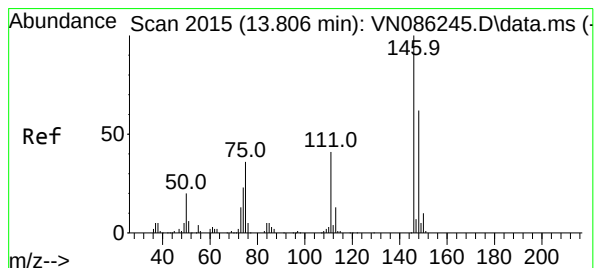
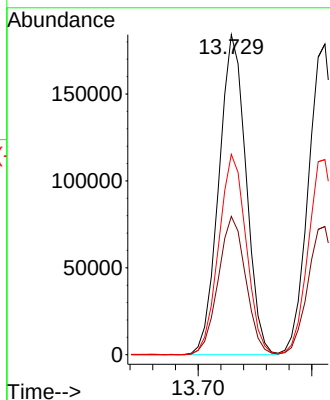
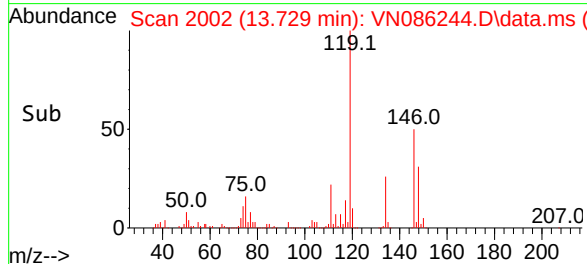
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:146 Resp: 30624
Ion Ratio Lower Upper
146 100
111 43.6 21.7 65.1
148 63.2 32.3 96.8

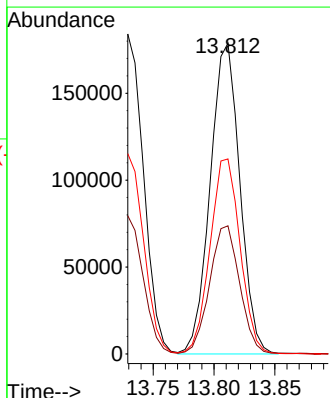
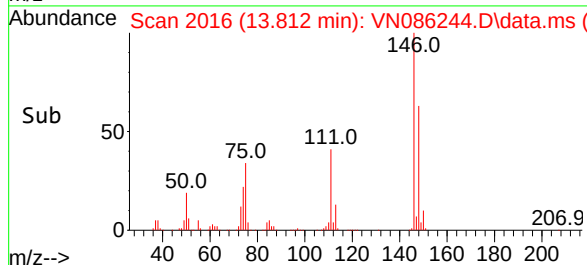
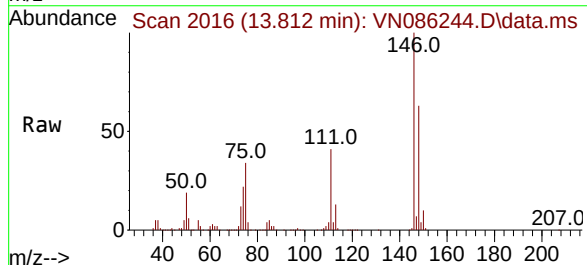
Manual Integrations
APPROVED

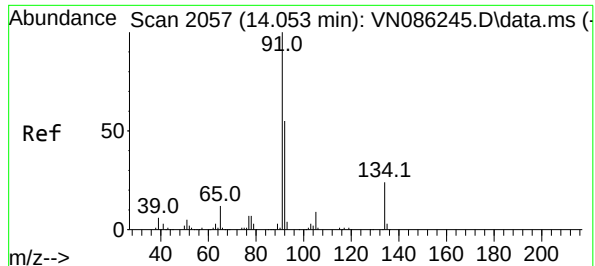
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#84
1,4-Dichlorobenzene
Concen: 57.117 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:146 Resp: 303615
Ion Ratio Lower Upper
146 100
111 41.6 20.8 62.4
148 63.7 31.9 95.5





#85

n-Butylbenzene

Concen: 55.917 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

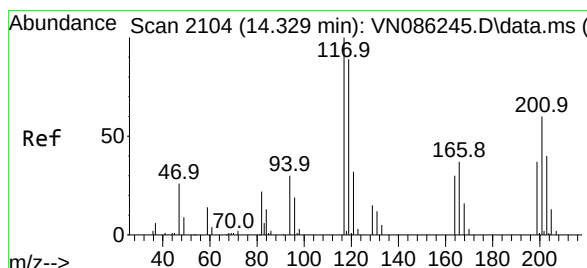
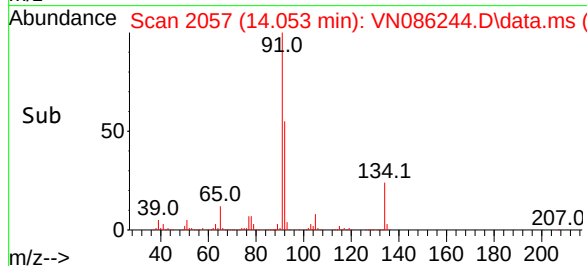
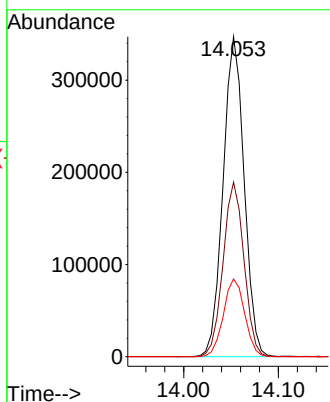
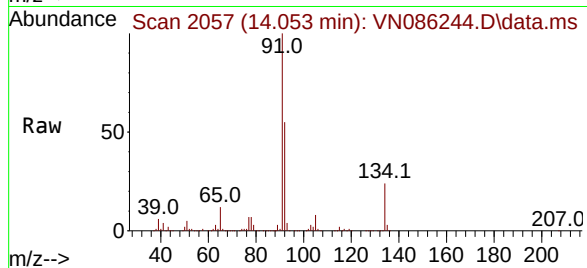
Tgt Ion:	91	Resp:	53694
Ion	Ratio	Lower	Upper
91	100		
92	54.0	0.0	109.4
134	24.5	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 56.854 ug/l

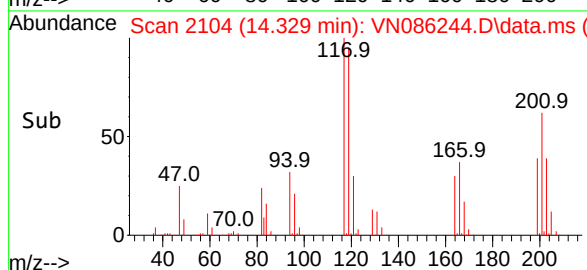
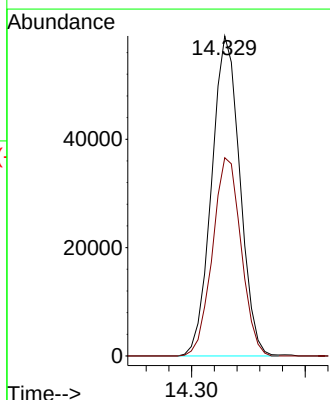
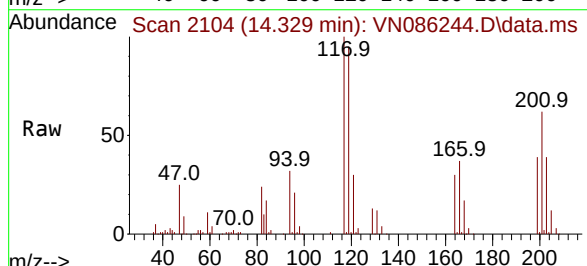
RT: 14.329 min Scan# 2104

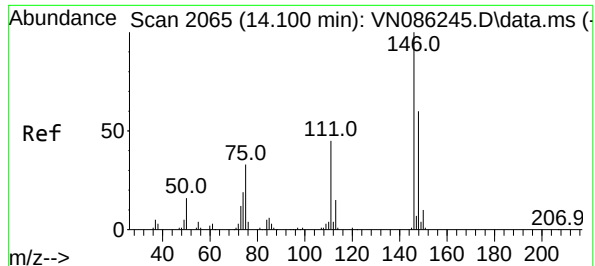
Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion:	117	Resp:	102084
Ion	Ratio	Lower	Upper
117	100		
201	62.6	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 57.607 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 301390

Ion Ratio Lower Upper

146 100

111 44.9 22.7 68.0

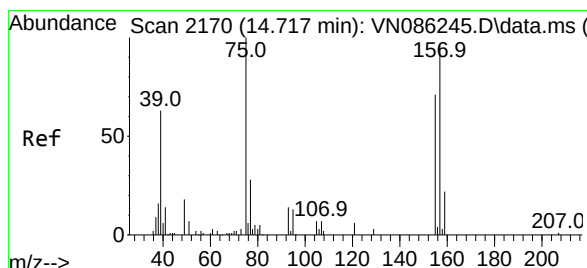
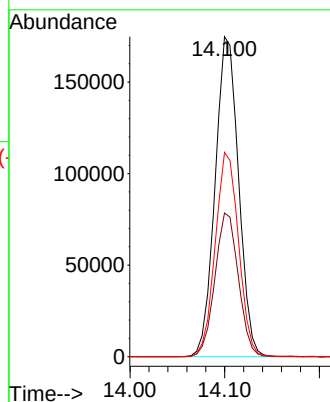
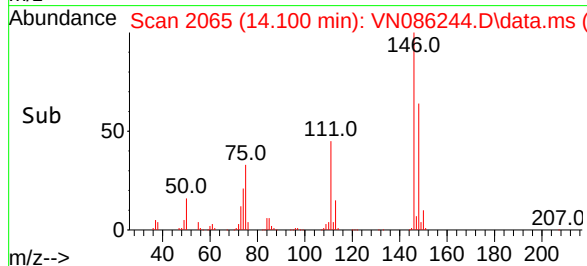
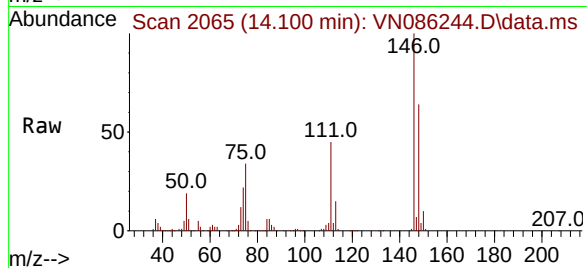
148 63.4 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 56.890 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

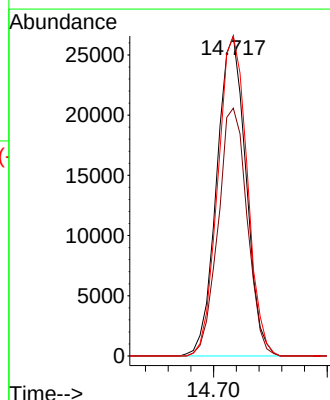
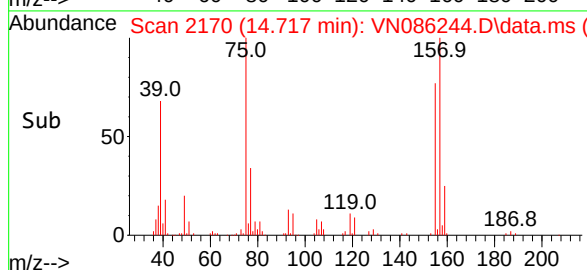
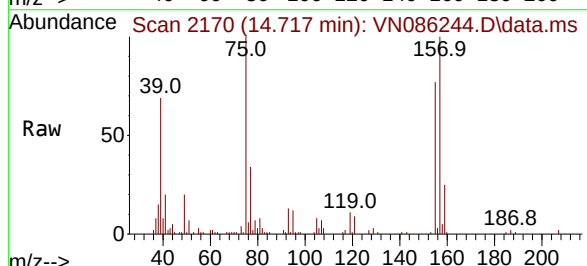
Tgt Ion: 75 Resp: 47464

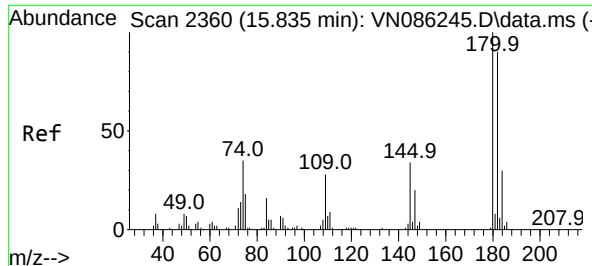
Ion Ratio Lower Upper

75 100

155 76.8 60.3 90.5

157 99.9 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 55.103 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

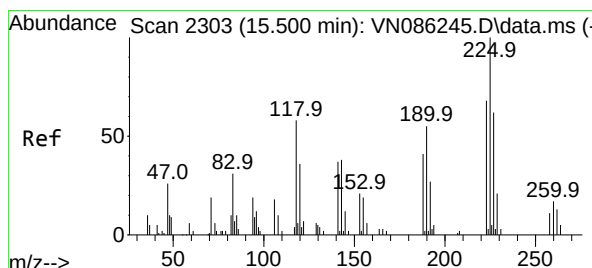
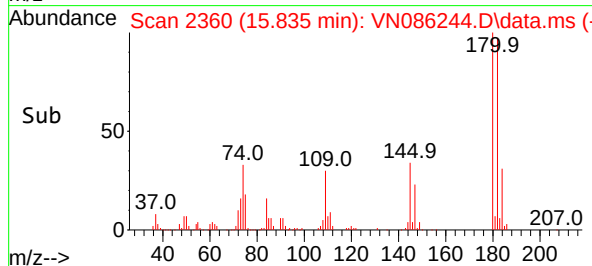
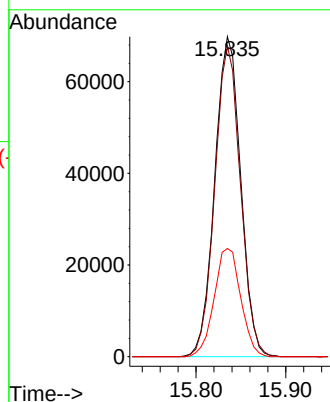
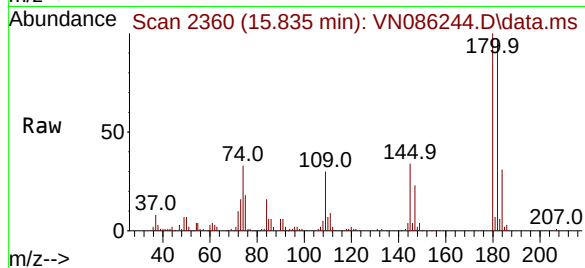
Tgt Ion:	180	Resp:	14027
Ion Ratio	Lower	Upper	
180	100		
182	95.8	75.1	112.7
145	34.6	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 51.165 ug/l

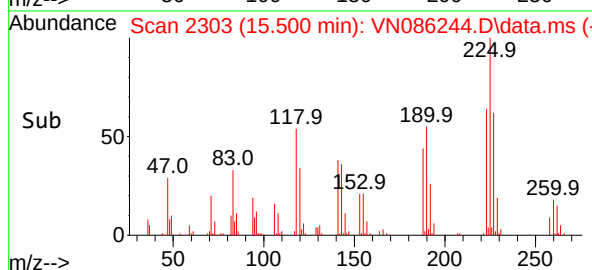
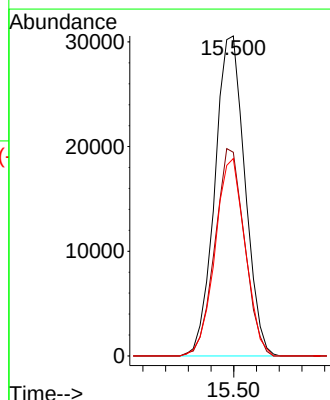
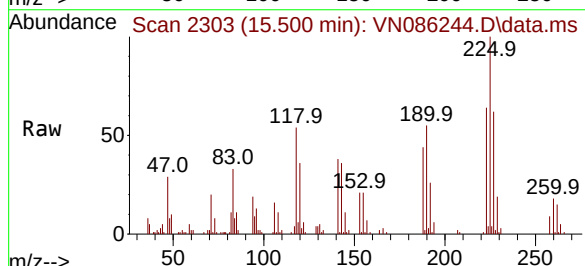
RT: 15.500 min Scan# 2303

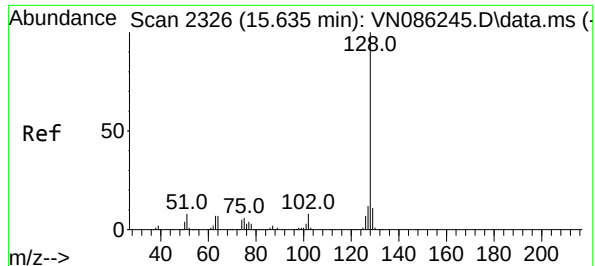
Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

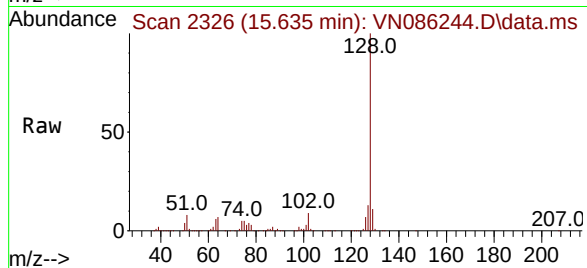
Tgt Ion:	225	Resp:	56236
Ion Ratio	Lower	Upper	
225	100		
223	63.7	0.0	130.0
227	61.6	0.0	123.2





#91
Naphthalene
Concen: 55.953 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

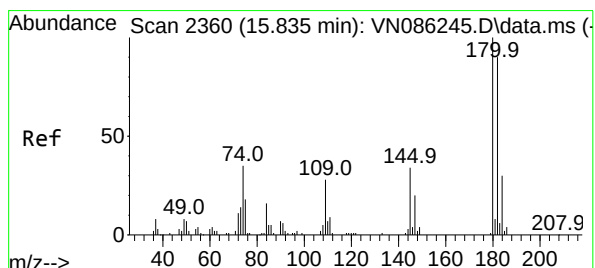
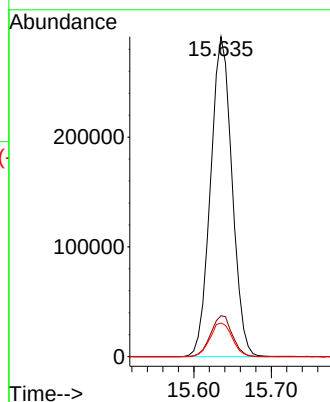
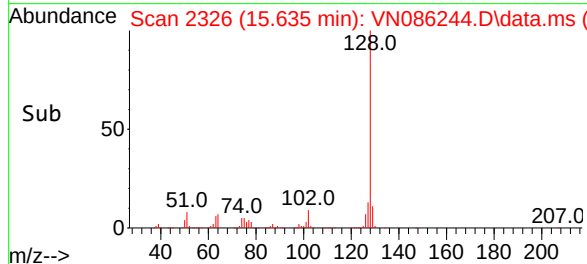
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:128 Resp: 561578
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.9 8.8 13.2

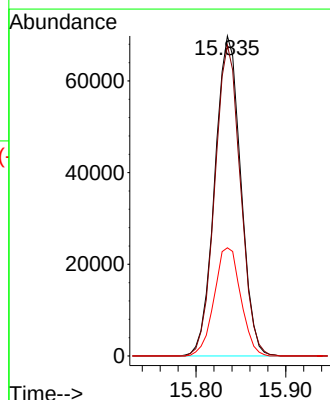
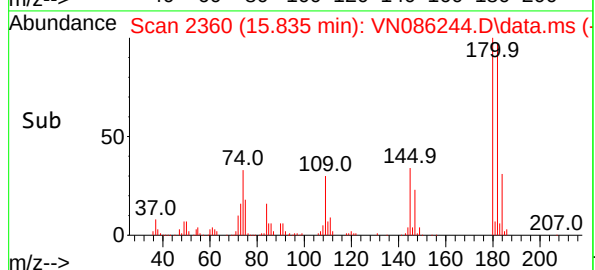
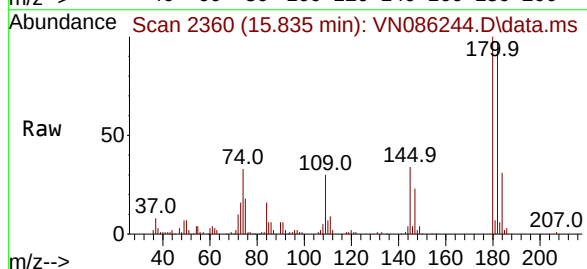
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 55.103 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:180 Resp: 140271
Ion Ratio Lower Upper
180 100
182 95.8 0.0 187.8
145 34.6 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30974	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185020	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	89958	29.776	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.847	95	97314	29.820	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.400%		
63) Toluene-d8	10.565	98	281589	30.431	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.433%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	48008	19.345	ug/l	100
3) Chloromethane	2.359	50	63879	18.624	ug/l	100
4) Vinyl Chloride	2.512	62	62095	19.006	ug/l	100
5) Bromomethane	2.965	94	30452	18.686	ug/l	100
6) Chloroethane	3.124	64	38415	18.620	ug/l	100
7) Trichlorofluoromethane	3.501	101	66215	18.683	ug/l	100
8) Diethyl Ether	3.959	74	30487	18.653	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41257	18.878	ug/l	100
10) 1,1-Dichloroethene	4.342	96	44299	18.782	ug/l	100
11) Methyl Iodide	4.589	142	50856	18.760	ug/l	100
12) Methyl Acetate	5.024	43	61331	18.414	ug/l	100
13) Acrolein	4.177	56	27873	73.623	ug/l	100
14) Acrylonitrile	5.718	53	132407	94.169	ug/l	100
15) Acetone	4.424	58	33967	95.196	ug/l	95
16) Carbon Disulfide	4.712	76	129547	19.155	ug/l	100
17) Allyl chloride	5.024	41	76657	18.648	ug/l	100
18) Methylene Chloride	5.277	84	49299	18.333	ug/l	100
19) trans-1,2-Dichloroethene	5.789	96	45854	21.553	ug/l	100
20) Diisopropyl ether	6.671	45	167099	18.905	ug/l	100
21) 1,1-Dichloroethane	6.565	63	89726	19.030	ug/l	100
22) cis-1,2-Dichloroethene	7.489	96	55538	18.766	ug/l	100
23) tert-Butyl Alcohol	5.512	59	56269	96.582	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	158818	18.690	ug/l	100
25) Chloroform	7.965	83	84511	18.796	ug/l	100
26) Cyclohexane	8.253	56	81442	18.462	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	63403	19.129	ug/l	100
30) 2-Butanone	7.483	43	178630	97.263	ug/l	100
31) 2,2-Dichloropropane	7.489	77	78733	19.298	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72230	18.945	ug/l	100
33) Carbon Tetrachloride	8.359	117	58240	19.114	ug/l	100
34) Benzene	8.606	78	201431	19.103	ug/l	100
35) Methacrylonitrile	7.777	41	39241	18.953	ug/l	100
36) 1,2-Dichloroethane	8.671	62	63104	19.124	ug/l	100
37) Trichloroethene	9.353	130	48886	19.215	ug/l	100
38) Methylcyclohexane	9.600	83	75994	18.695	ug/l	100
39) 1,2-Dichloropropane	9.618	63	49925	19.028	ug/l	100
40) Dibromomethane	9.706	93	32130	18.960	ug/l	100
41) Bromodichloromethane	9.882	83	69713	19.149	ug/l	100
42) Vinyl Acetate	6.600	43	616622	98.633	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	72635	19.607	ug/l	100
44) Isopropyl Acetate	8.683	43	129543	18.850	ug/l	100
45) 1,4-Dioxane	9.694	88	21134	386.736	ug/l	100
46) Methyl methacrylate	9.677	41	58112	19.192	ug/l	100
47) n-amyl Acetate	12.488	43	101635	18.304	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	78104	18.977	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	83505	19.170	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45892	19.308	ug/l	100
51) Ethyl methacrylate	10.871	69	84042	19.027	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79960	18.875	ug/l	100
53) Dibromochloromethane	11.353	129	49892	19.190	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45668	19.034	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	199584	119.582	ug/l	100
56) Bromoform	12.576	173	32612	19.173	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	366576	98.554	ug/l	100
59) 2-Hexanone	11.194	43	271384	97.984	ug/l	100
61) Tetrachloroethene	11.100	164	46313	19.134	ug/l	100
62) Toluene	10.629	91	212088	19.292	ug/l	100
64) Chlorobenzene	11.888	112	128877	19.188	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	42656	19.244	ug/l	100
66) Ethyl Benzene	11.959	91	233805	19.177	ug/l	100
67) m/p-Xylenes	12.071	106	172384	38.024	ug/l	100
68) o-Xylene	12.394	106	85173	19.101	ug/l	100
69) Styrene	12.406	104	141327	18.793	ug/l	100
70) Isopropylbenzene	12.694	105	209526	19.057	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	60936	19.472	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	61888m	13.969	ug/l	
73) Bromobenzene	12.976	156	46561	19.116	ug/l	100
74) n-propylbenzene	13.029	91	243573	18.707	ug/l	100
75) 2-Chlorotoluene	13.123	91	154341	18.914	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	172014	19.046	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	28529	18.993	ug/l	100
78) 4-Chlorotoluene	13.218	91	151091	18.539	ug/l	100
79) tert-butylbenzene	13.435	119	147428	18.865	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174827	19.089	ug/l	100
81) sec-Butylbenzene	13.612	105	208583	19.134	ug/l	100
82) p-Isopropyltoluene	13.723	119	173120	19.037	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	84482	18.662	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	84947	18.705	ug/l	100
85) n-Butylbenzene	14.053	91	155208	18.919	ug/l	100
86) Hexachloroethane	14.329	117	29008	18.910	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	85009	19.018	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14031	19.684	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100
90) Hexachlorobutadiene	15.500	225	18215	19.398	ug/l	100
91) Naphthalene	15.635	128	169118	19.722	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100

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

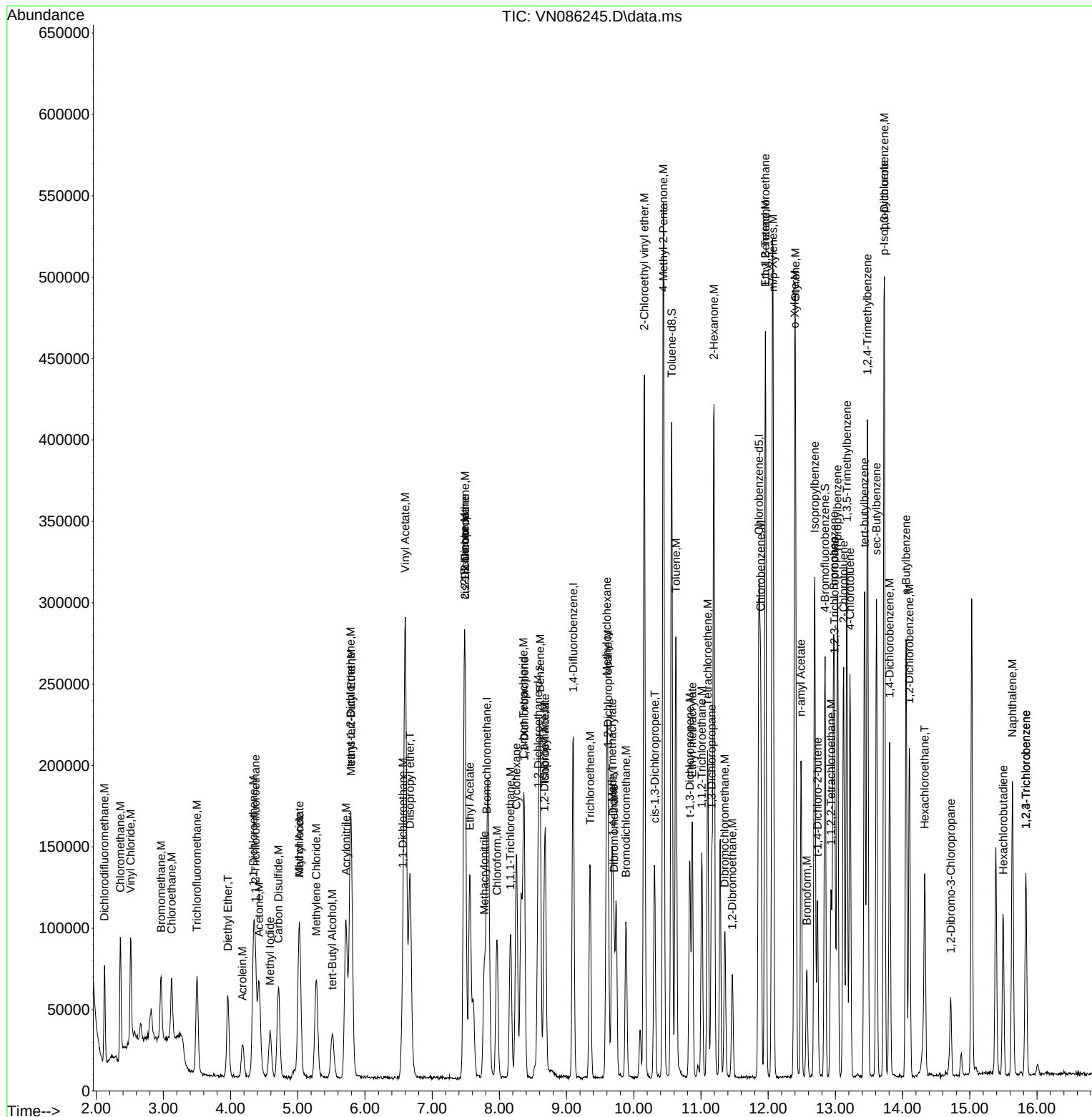
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 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

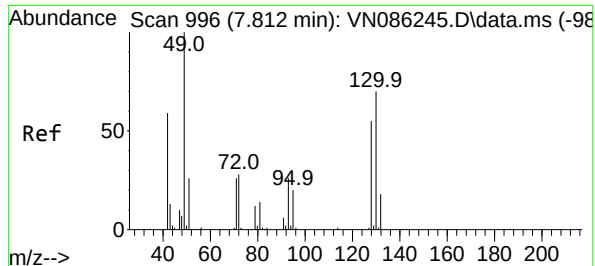
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

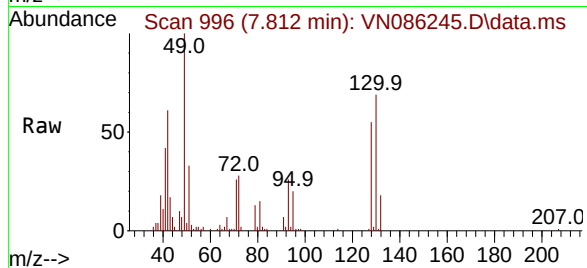
Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

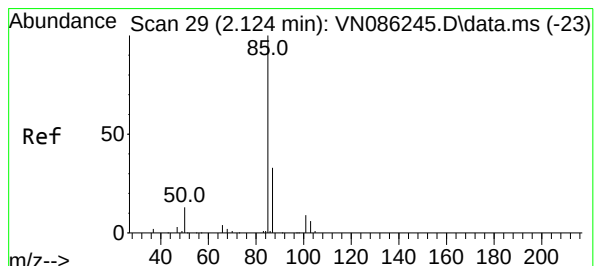
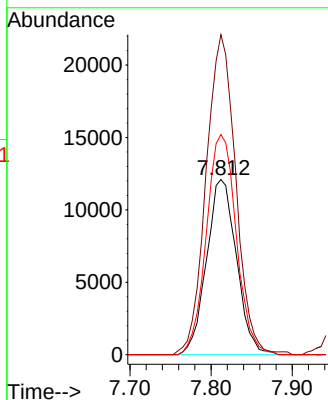
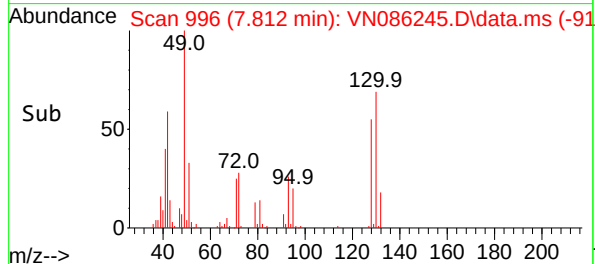
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 30974
Ion Ratio Lower Upper
128 100
49 181.0 0.0 452.5
130 126.0 0.0 315.0

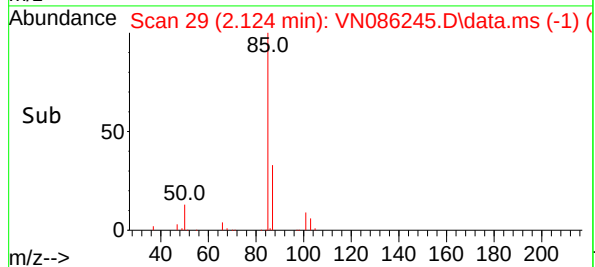
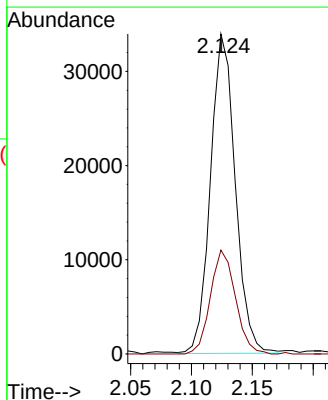
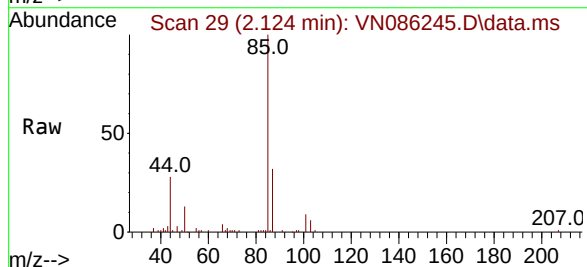
Manual Integrations
APPROVED

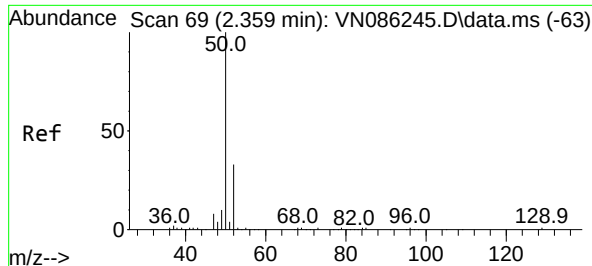
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 19.345 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
87 32.6 16.3 48.9





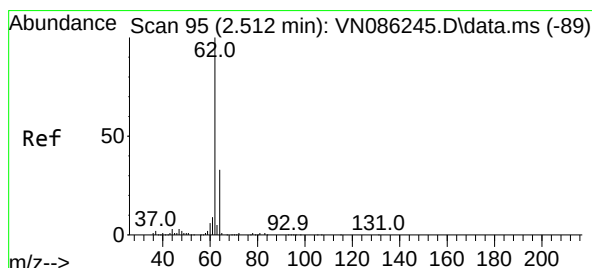
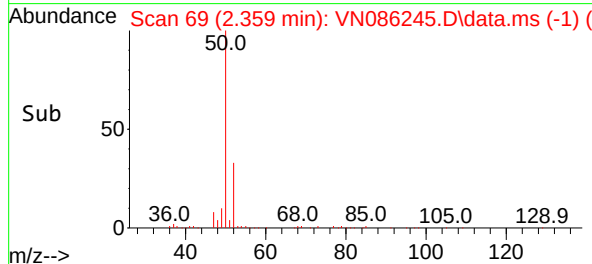
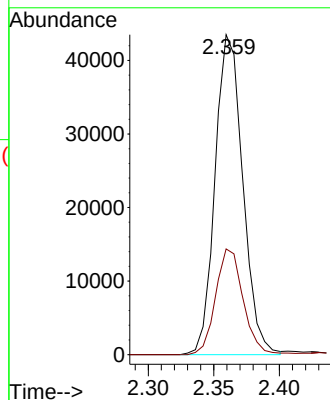
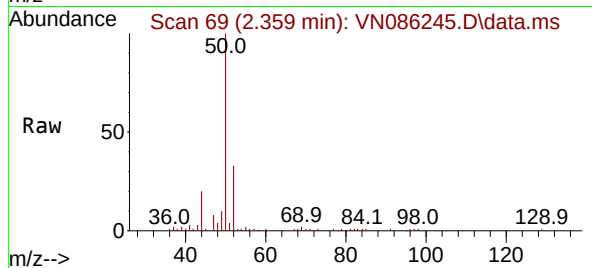
#3
Chloromethane
Concen: 18.624 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 50 Resp: 63879
Ion Ratio Lower Upper
50 100
52 33.0 26.4 39.6

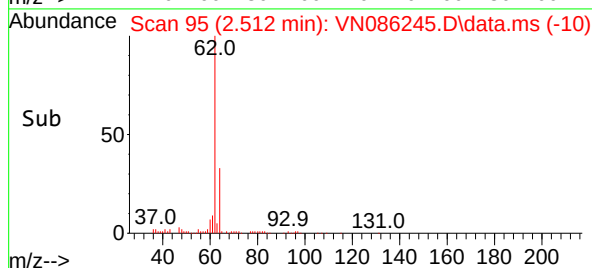
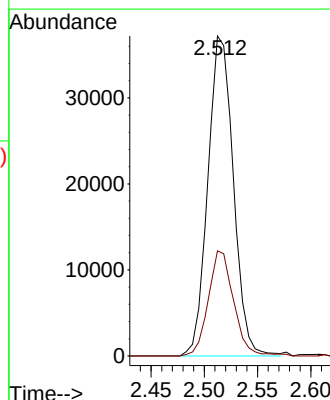
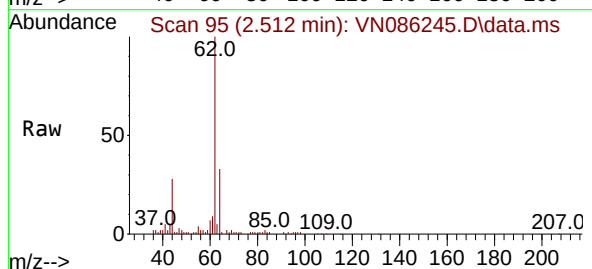
Manual Integrations
APPROVED

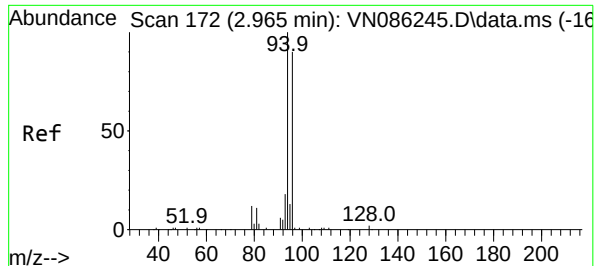
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 19.006 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 62 Resp: 62095
Ion Ratio Lower Upper
62 100
64 32.9 26.3 39.5





#5

Bromomethane

Concen: 18.686 ug/l

RT: 2.965 min Scan# 172

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 94 Resp: 30452

Ion Ratio Lower Upper

94 100

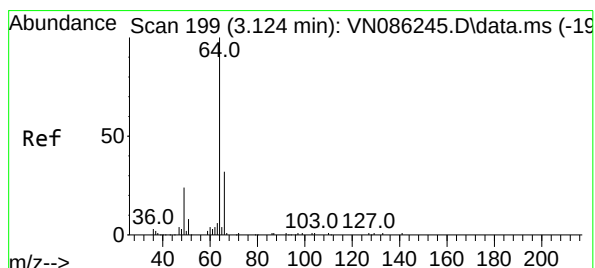
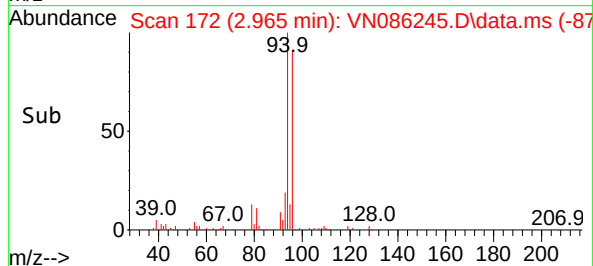
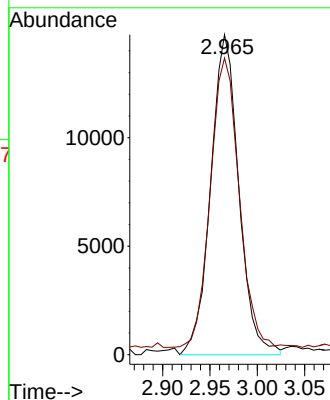
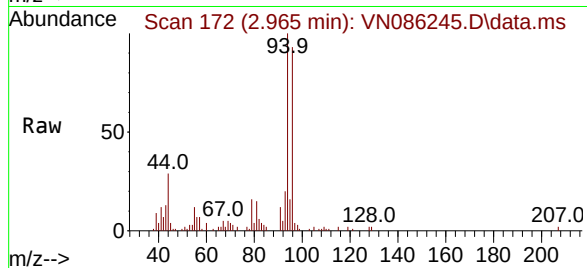
96 90.2 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 18.620 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.000 min

Lab File: VN086245.D

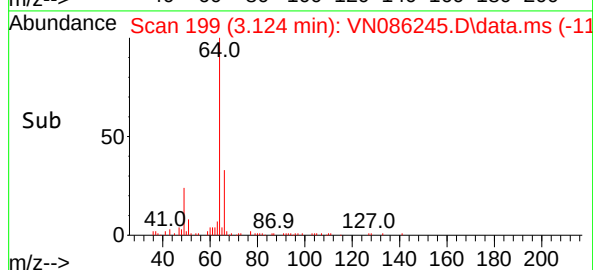
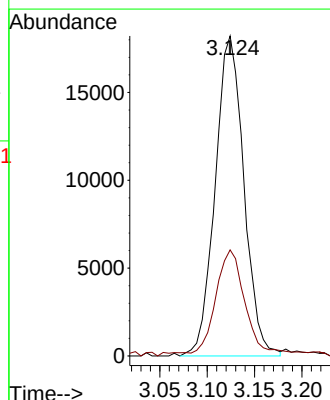
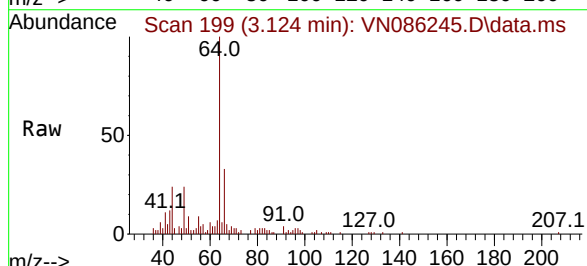
Acq: 11 Apr 2025 12:16

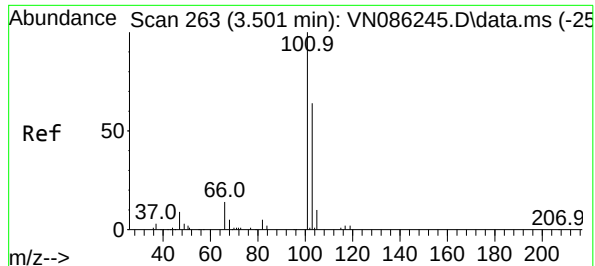
Tgt Ion: 64 Resp: 38415

Ion Ratio Lower Upper

64 100

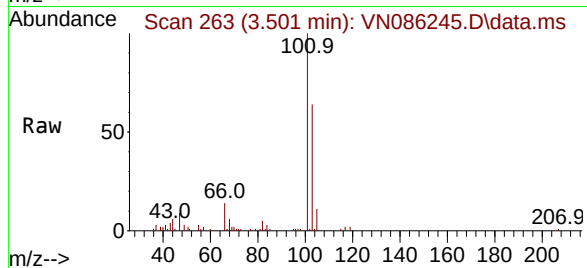
66 32.1 25.7 38.5





#7
Trichlorofluoromethane
Concen: 18.683 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

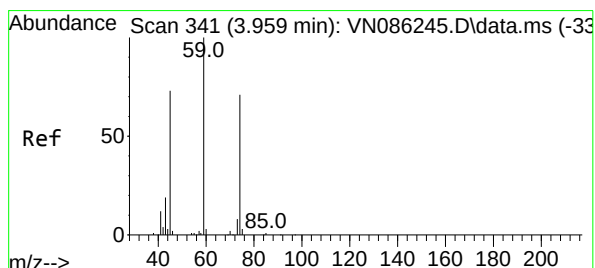
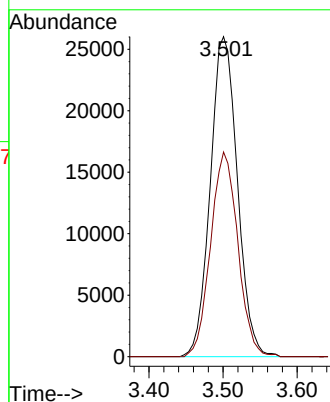
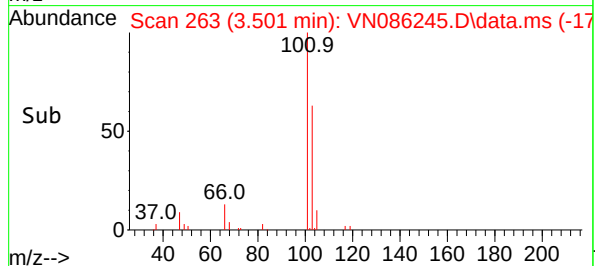
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 101 Resp: 6621
Ion Ratio Lower Upper
101 100
103 64.0 51.2 76.8

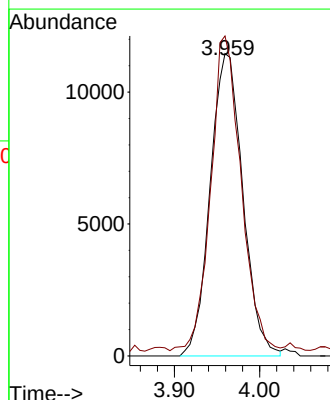
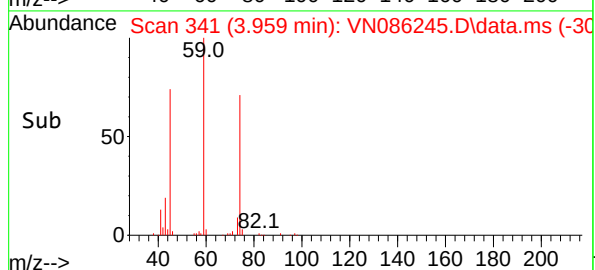
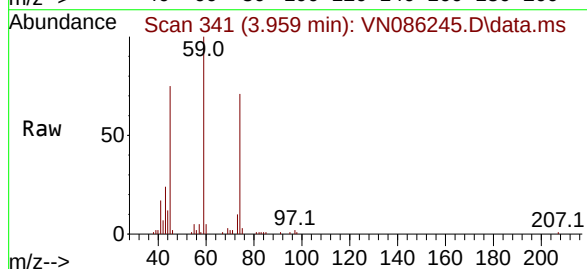
Manual Integrations
APPROVED

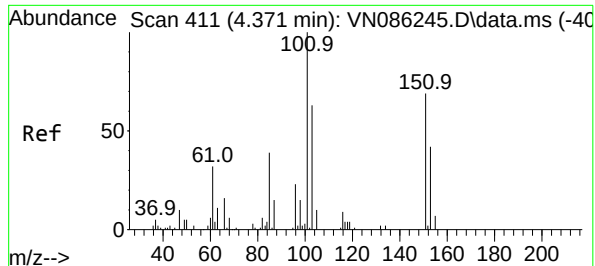
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 18.653 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 74 Resp: 30487
Ion Ratio Lower Upper
74 100
45 96.2 19.2 173.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.878 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

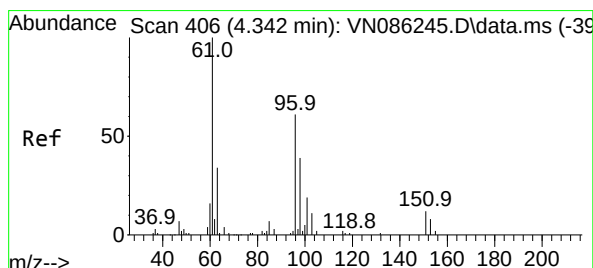
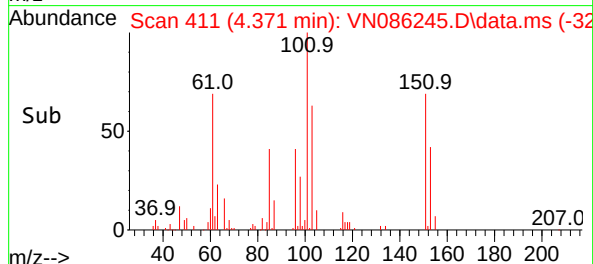
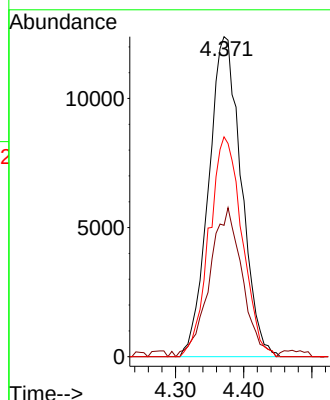
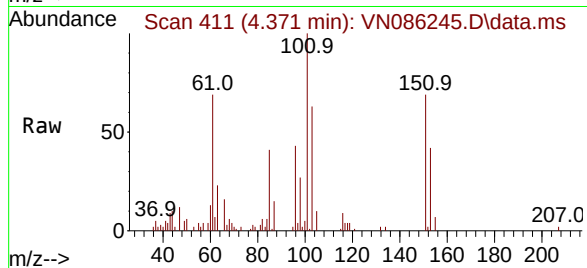
Tgt Ion:	101	Resp:	4125
Ion	Ratio	Lower	Upper
101	100		
85	46.5	0.0	93.0
151	69.3	0.0	138.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#10

1,1-Dichloroethene

Concen: 18.782 ug/l

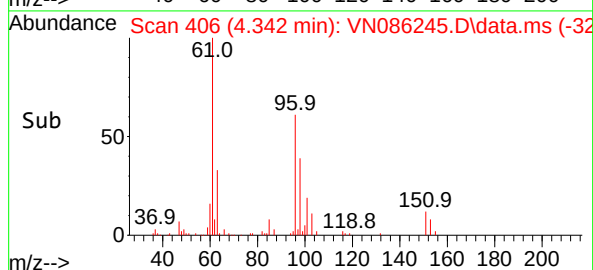
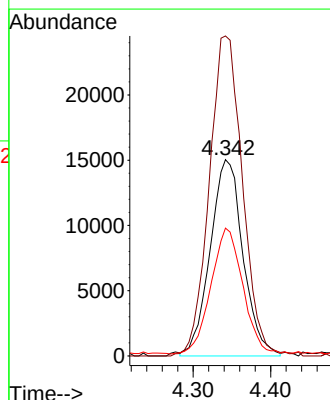
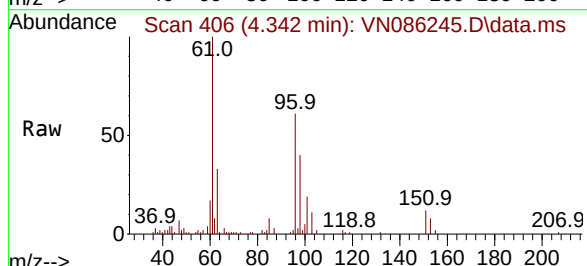
RT: 4.342 min Scan# 406

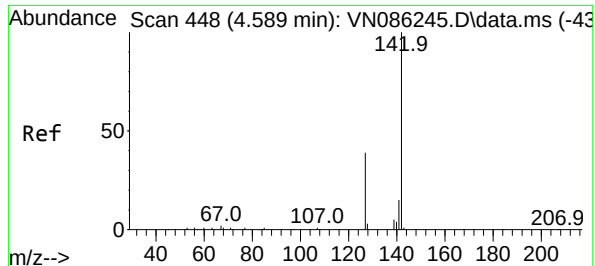
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	96	Resp:	44299
Ion	Ratio	Lower	Upper
96	100		
61	163.9	131.1	196.7
98	64.5	51.6	77.4





#11

Methyl Iodide

Concen: 18.760 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

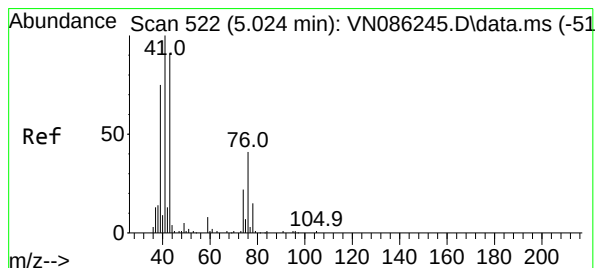
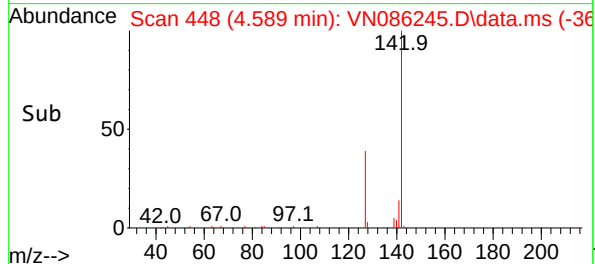
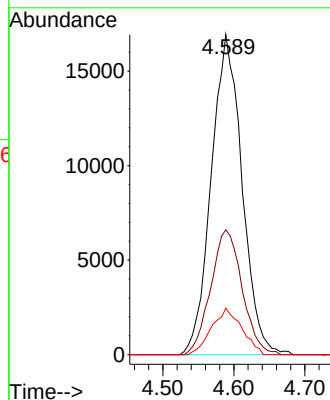
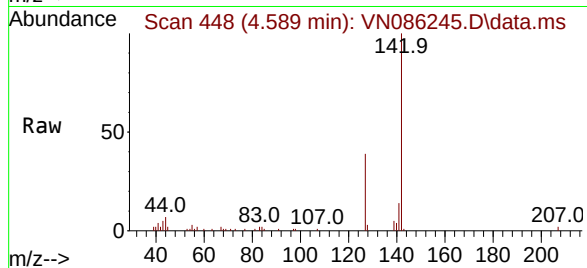
Tgt Ion:	142	Resp:	5085
Ion Ratio	Lower	Upper	
142	100		
127	39.2	19.6	58.8
141	14.6	7.3	21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 18.414 ug/l

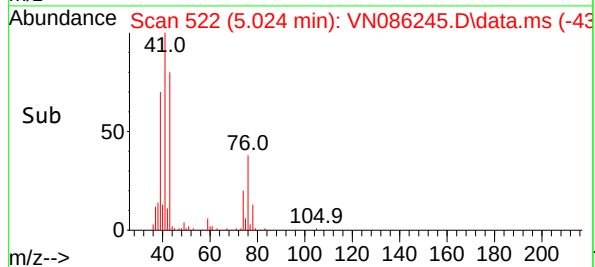
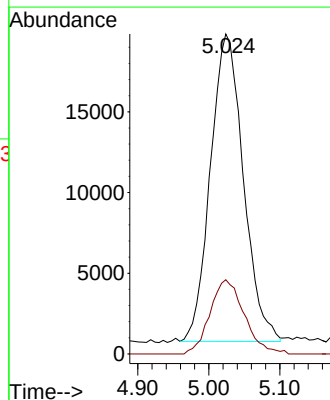
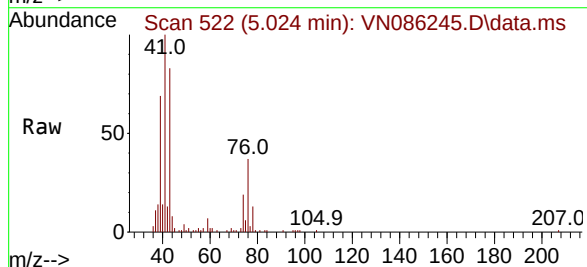
RT: 5.024 min Scan# 522

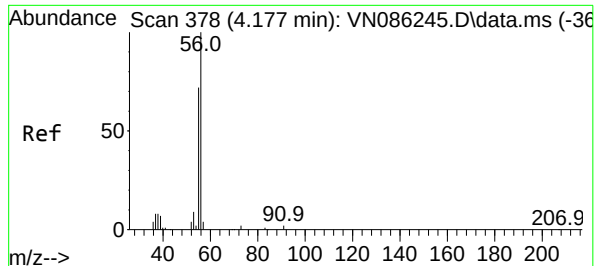
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	43	Resp:	61331
Ion Ratio	Lower	Upper	
43	100		
74	23.9	19.1	28.7





#13

Acrolein

Concen: 73.623 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 2787

Ion Ratio Lower Upper

56 100

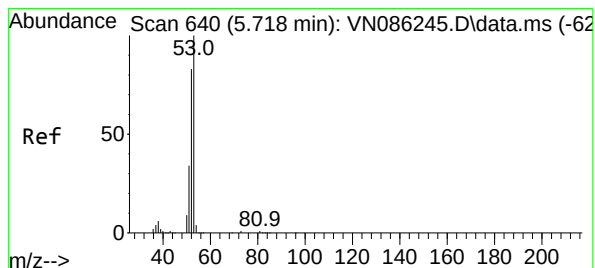
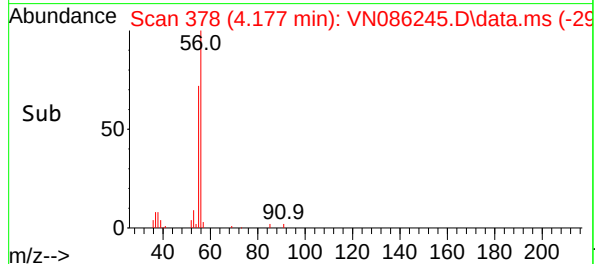
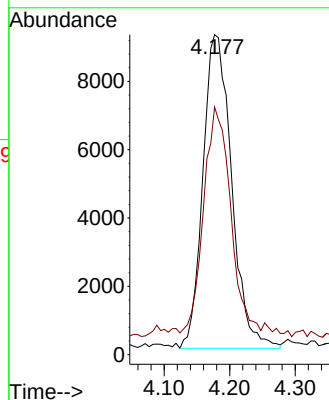
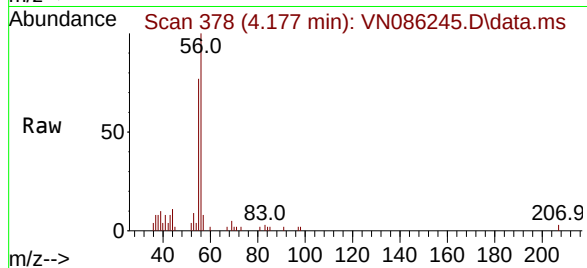
55 70.6 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 94.169 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

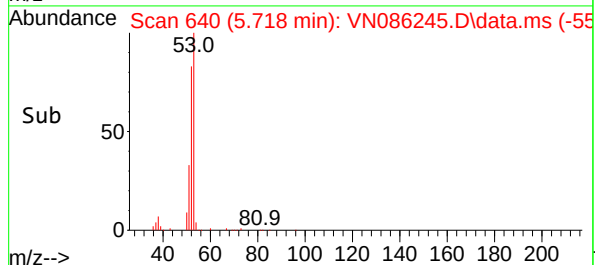
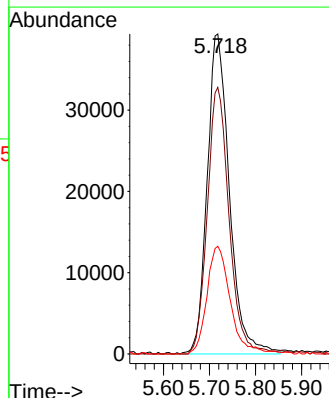
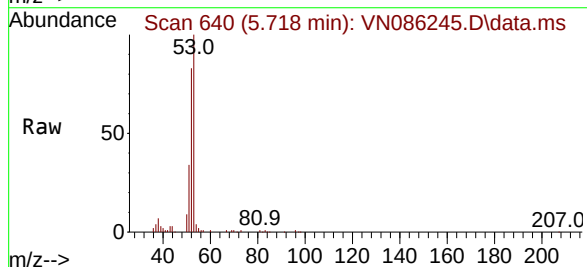
Tgt Ion: 53 Resp: 132407

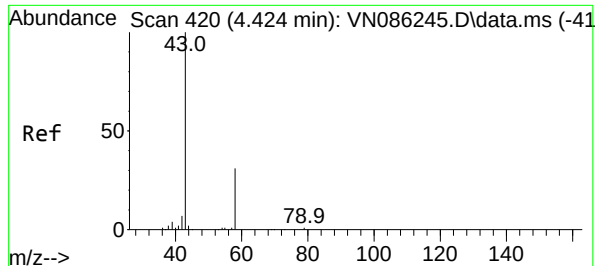
Ion Ratio Lower Upper

53 100

52 80.4 40.2 120.6

51 35.1 17.5 52.6





#15

Acetone

Concen: 95.196 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 58 Resp: 3396

Ion Ratio Lower Upper

58 100

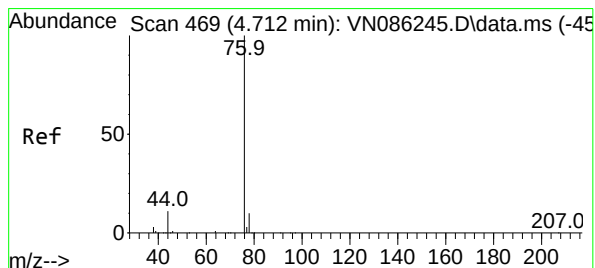
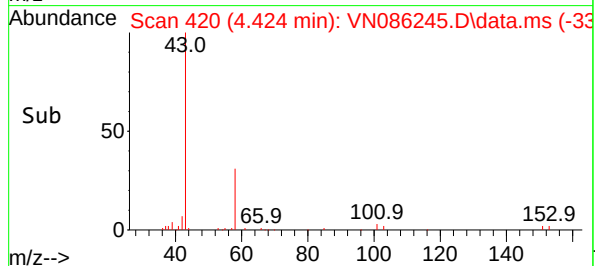
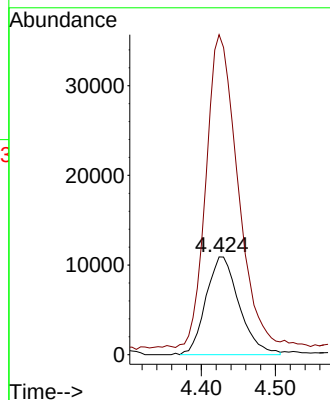
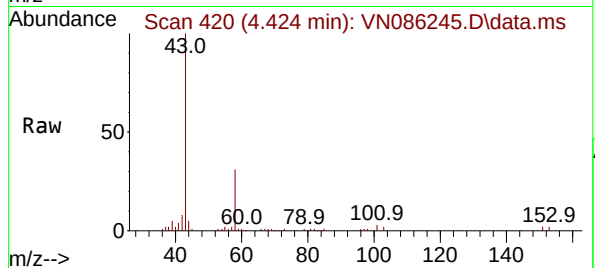
43 317.0 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 19.155 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086245.D

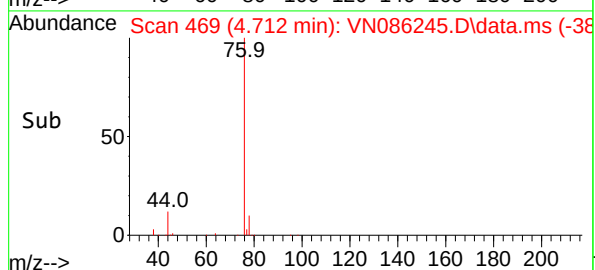
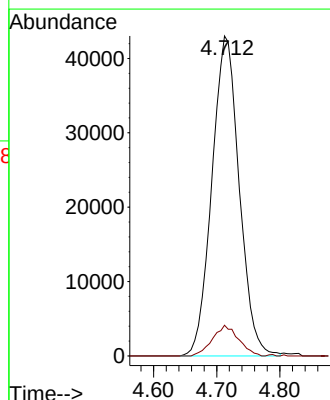
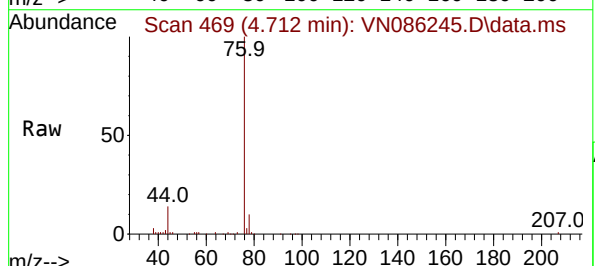
Acq: 11 Apr 2025 12:16

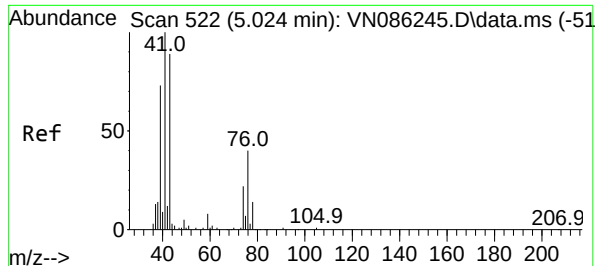
Tgt Ion: 76 Resp: 129547

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5





#17

Allyl chloride

Concen: 18.648 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

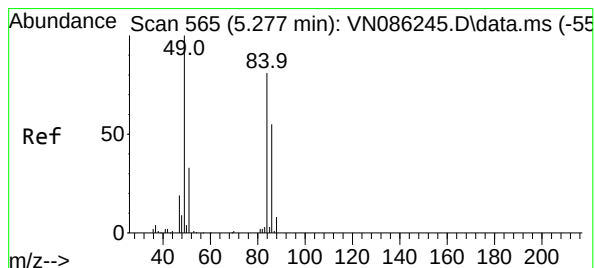
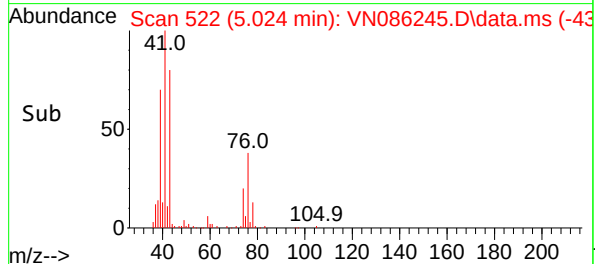
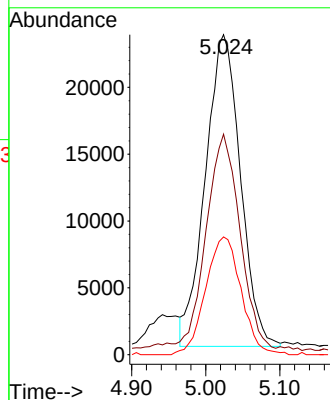
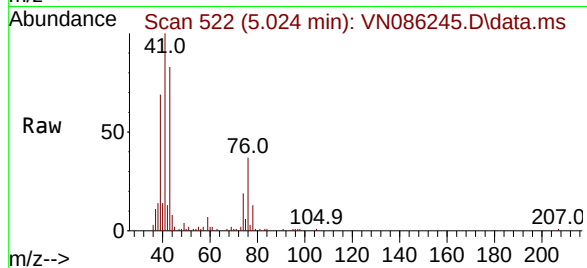
Tgt Ion:	41	Resp:	7665
Ion	Ratio	Lower	Upper
41	100		
39	68.8	34.4	103.2
76	37.5	18.8	56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 18.333 ug/l

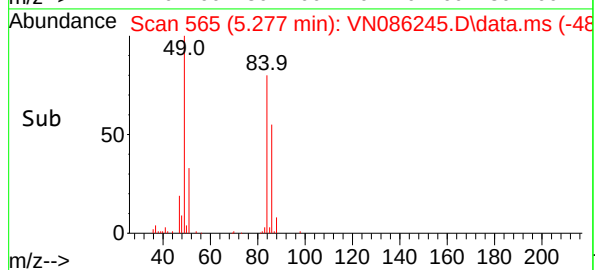
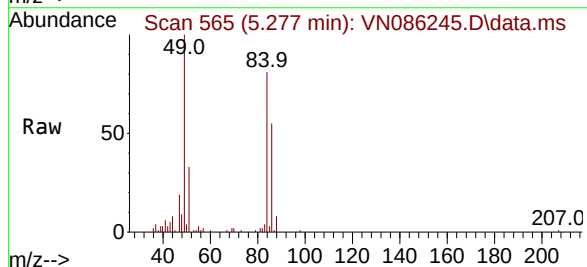
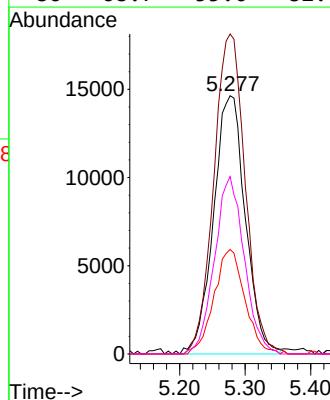
RT: 5.277 min Scan# 565

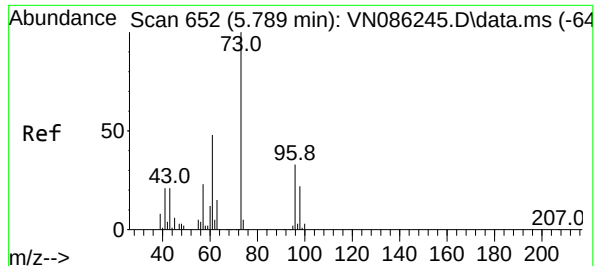
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	84	Resp:	49299
Ion	Ratio	Lower	Upper
84	100		
49	123.9	99.1	148.7
51	40.4	32.3	48.5
86	68.7	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 21.553 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 96 Resp: 45854

Ion Ratio Lower Upper

96 100

61 144.9 115.9 173.9

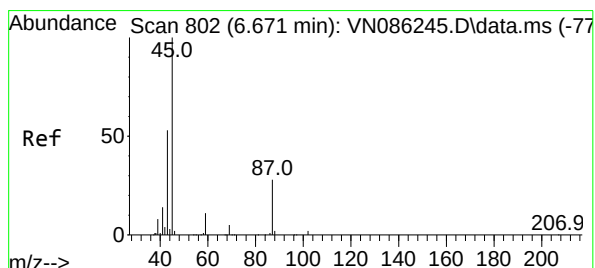
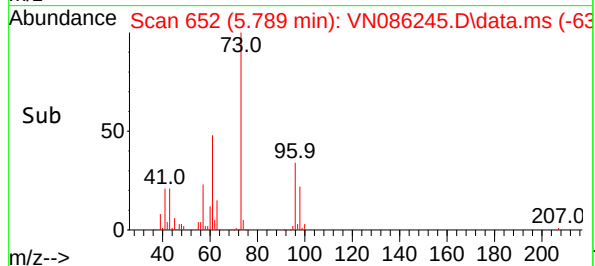
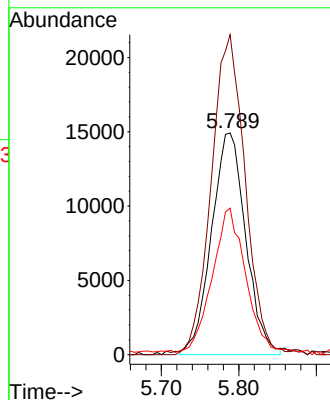
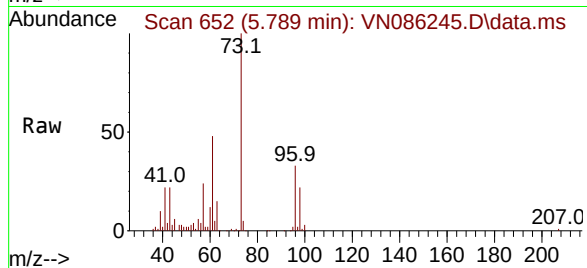
98 65.1 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 18.905 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion: 45 Resp: 167099

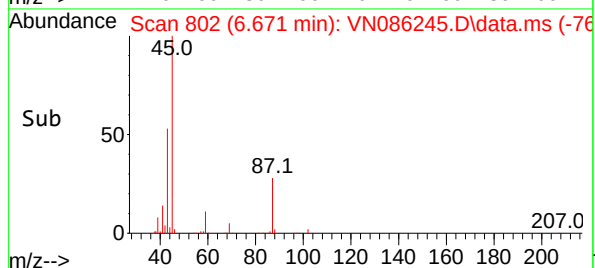
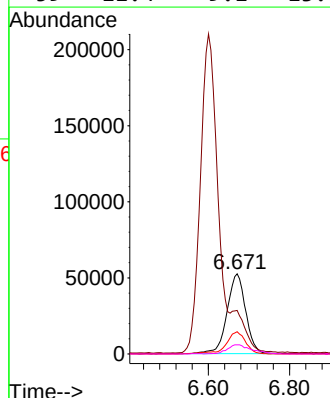
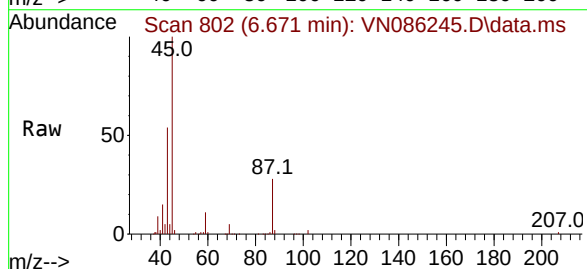
Ion Ratio Lower Upper

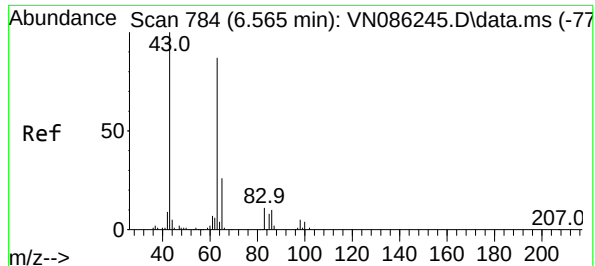
45 100

43 52.9 42.3 63.5

87 27.8 22.2 33.4

59 11.4 9.1 13.7





#21

1,1-Dichloroethane

Concen: 19.030 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

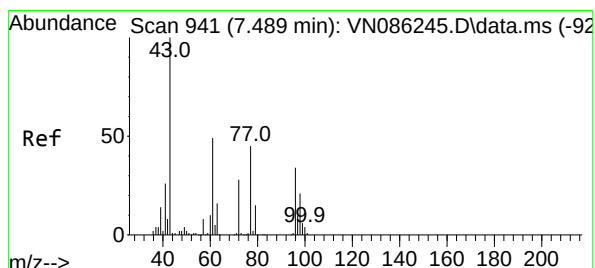
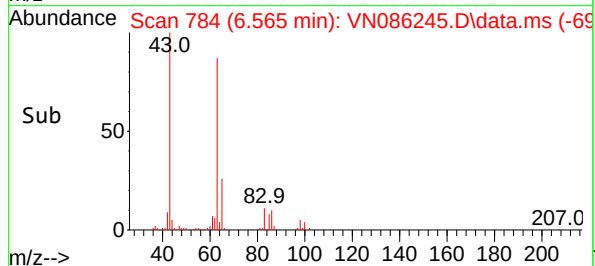
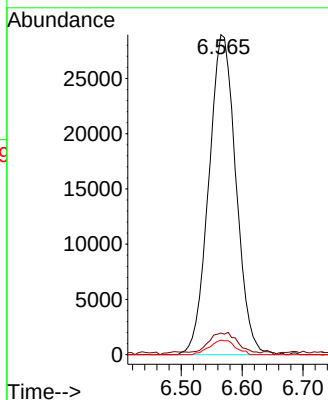
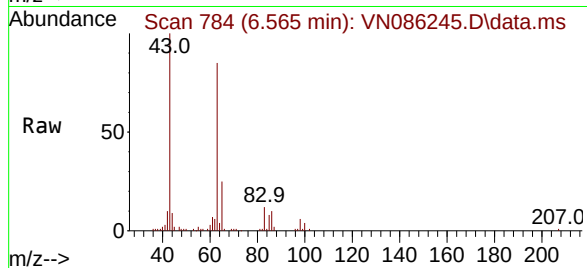
Tgt Ion:	63	Resp:	89720
Ion Ratio	Lower	Upper	
63	100		
98	6.2	3.1	9.3
100	4.6	2.3	6.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#22

cis-1,2-Dichloroethene

Concen: 18.766 ug/l

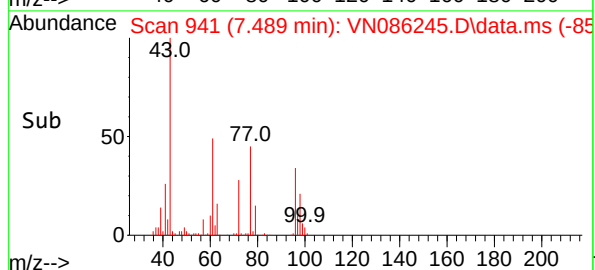
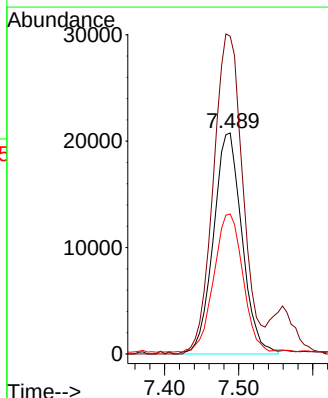
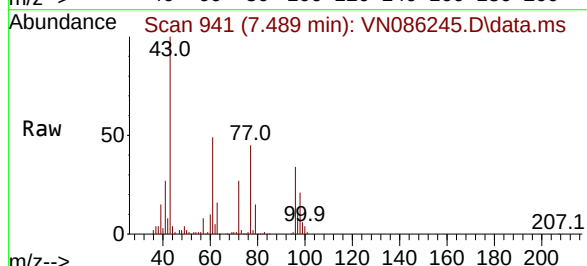
RT: 7.489 min Scan# 941

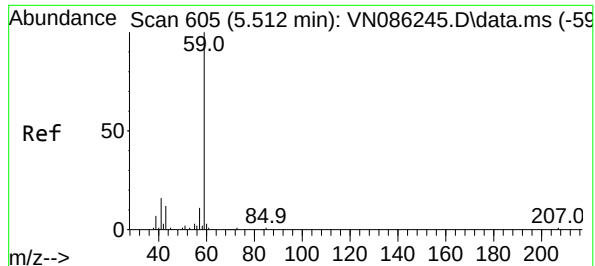
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	96	Resp:	55538
Ion Ratio	Lower	Upper	
96	100		
61	149.4	119.5	179.3
98	63.8	51.0	76.6





#23

tert-Butyl Alcohol

Concen: 96.582 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 59 Resp: 56269

Ion Ratio Lower Upper

59 100

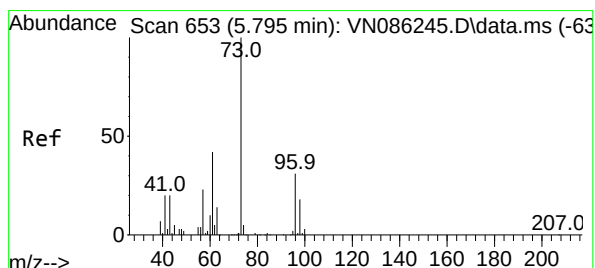
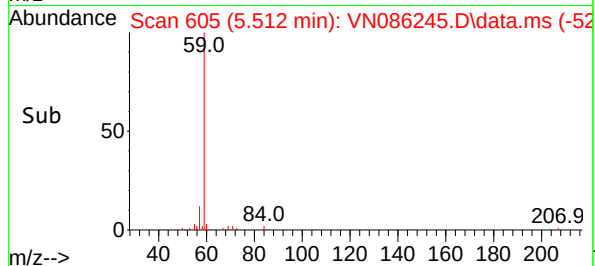
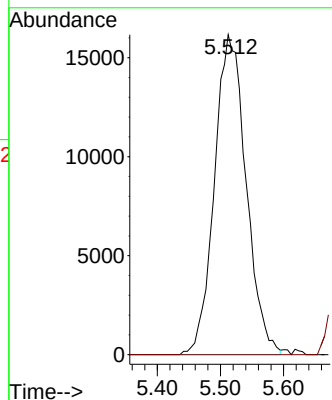
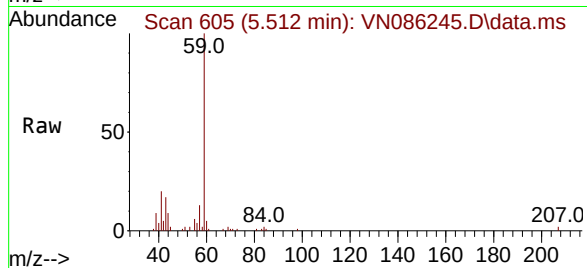
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#24

Methyl tert-Butyl Ether

Concen: 18.690 ug/l

RT: 5.795 min Scan# 653

Delta R.T. 0.000 min

Lab File: VN086245.D

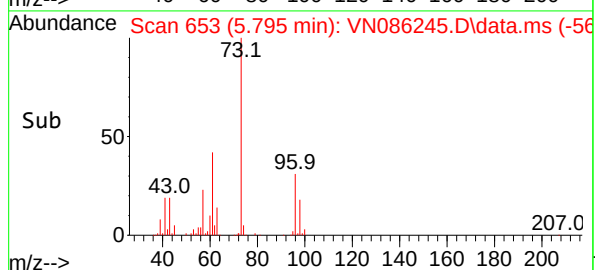
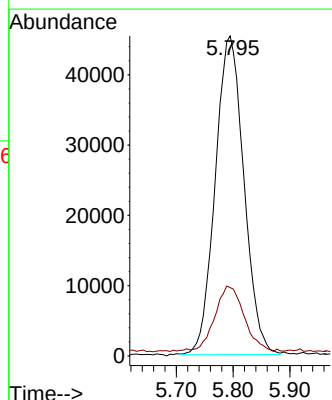
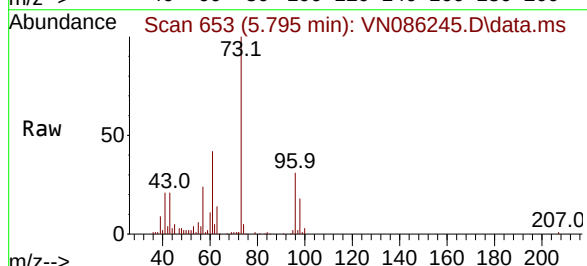
Acq: 11 Apr 2025 12:16

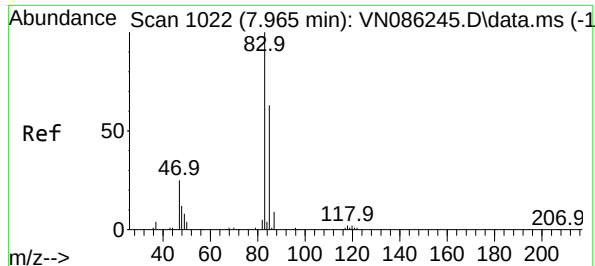
Tgt Ion: 73 Resp: 158818

Ion Ratio Lower Upper

73 100

43 21.0 16.8 25.2





#25

Chloroform

Concen: 18.796 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 8451

Ion Ratio Lower Upper

83 100

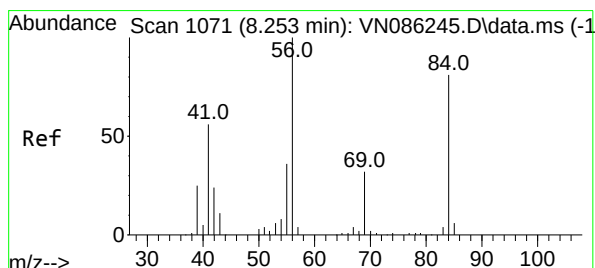
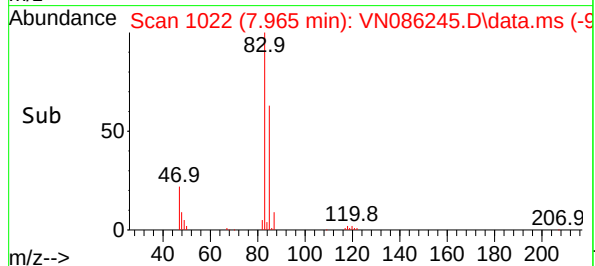
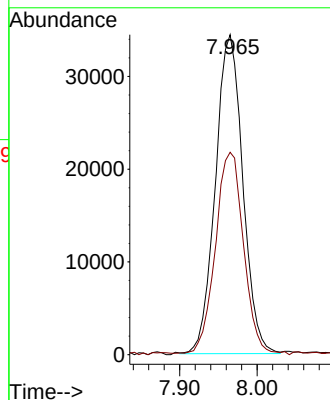
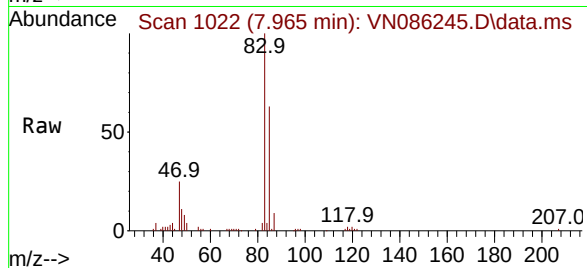
85 63.1 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 18.462 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

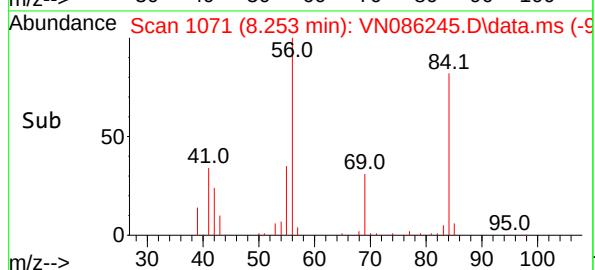
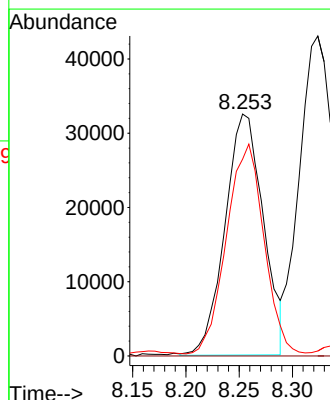
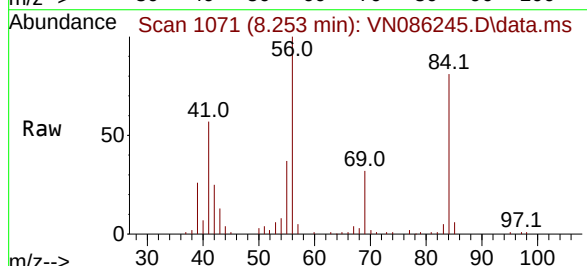
Tgt Ion: 56 Resp: 81442

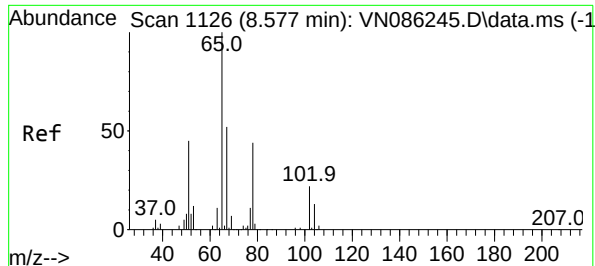
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.2 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.776 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 65 Resp: 89958

Ion Ratio Lower Upper

65 100

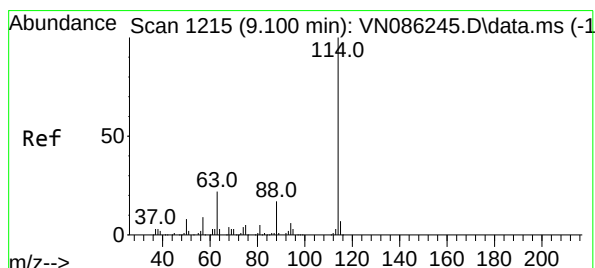
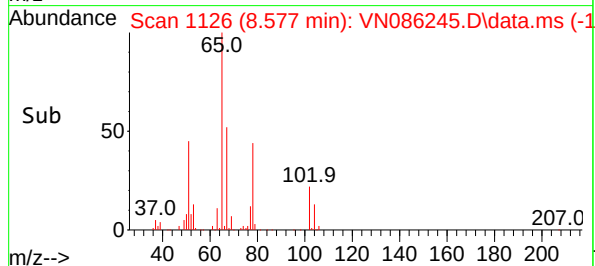
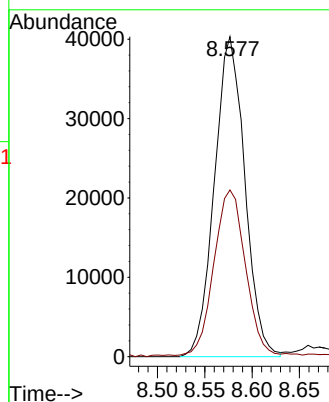
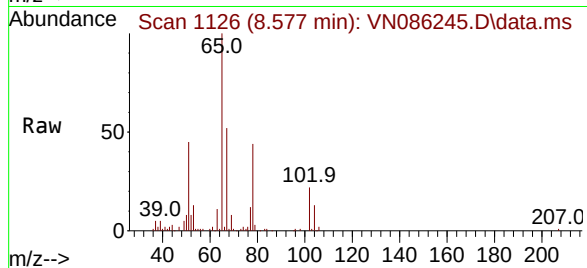
67 54.3 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

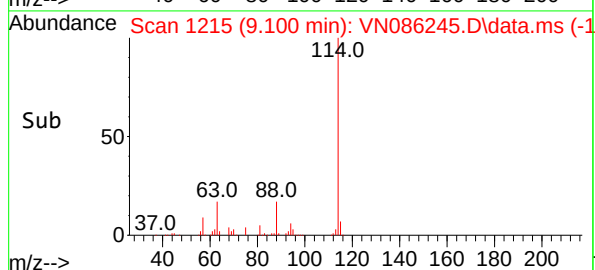
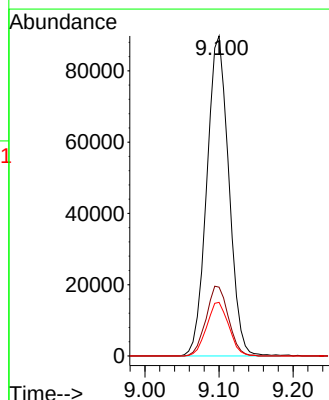
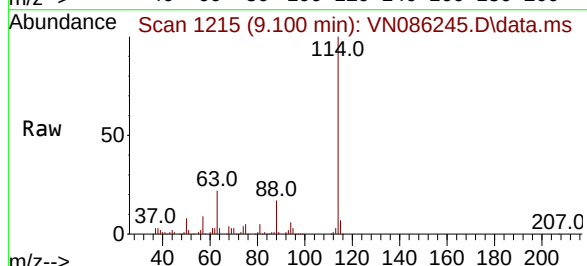
Tgt Ion:114 Resp: 185020

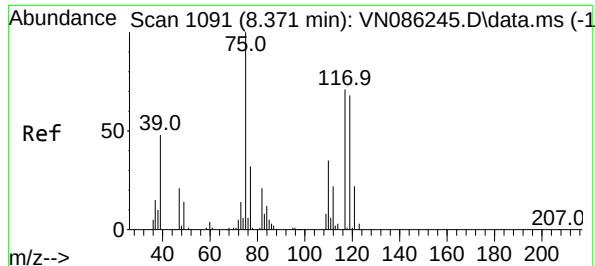
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

88 16.8 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.129 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 75 Resp: 6340

Ion Ratio Lower Upper

75 100

110 34.3 0.0 68.6

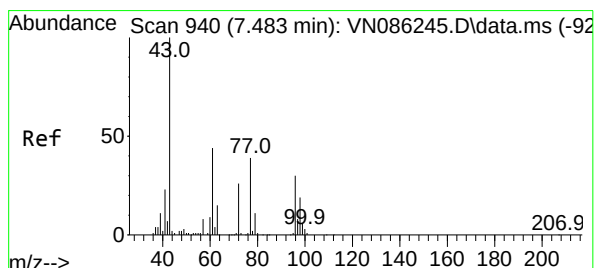
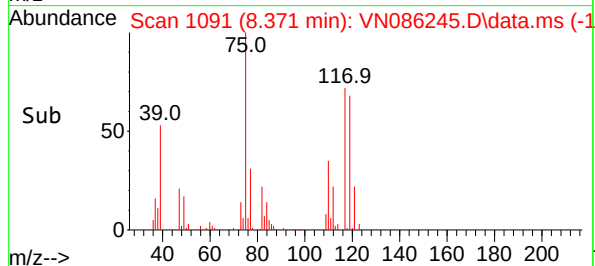
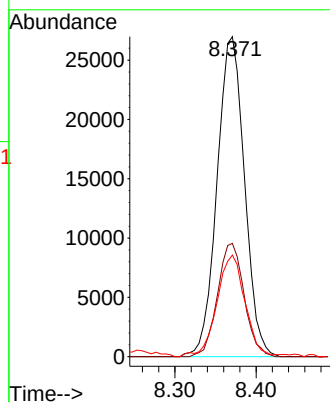
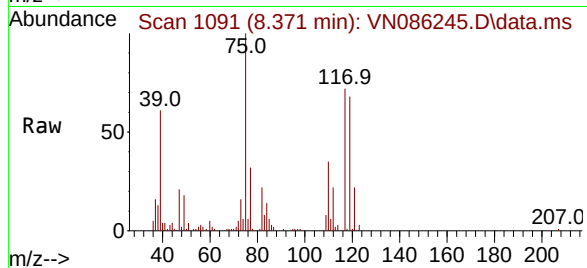
77 31.9 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 97.263 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

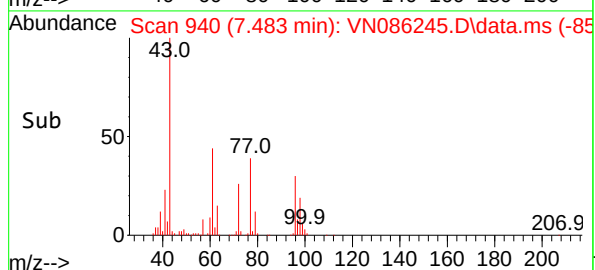
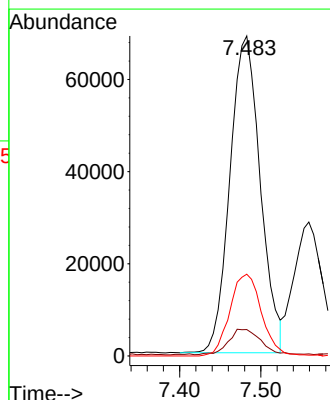
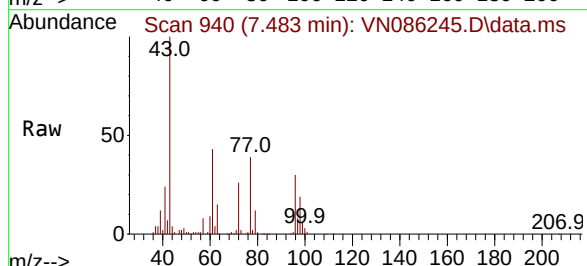
Tgt Ion: 43 Resp: 178630

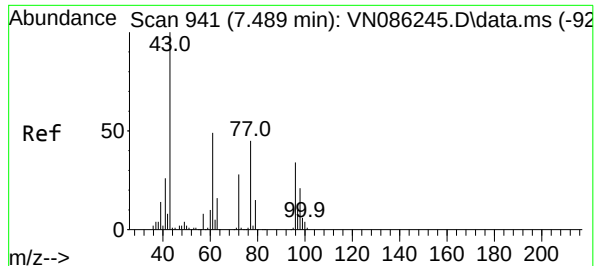
Ion Ratio Lower Upper

43 100

57 8.0 6.4 9.6

72 26.9 21.5 32.3





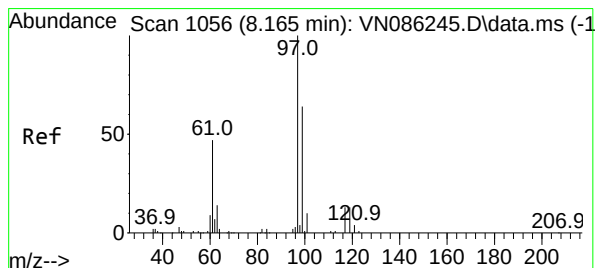
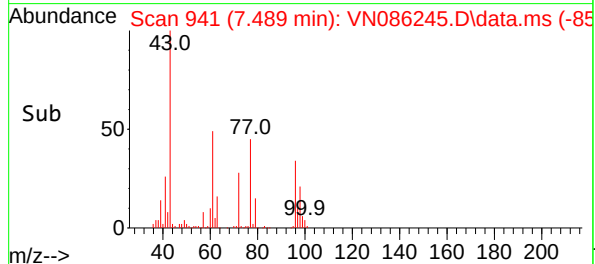
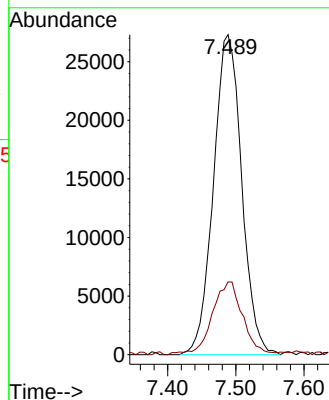
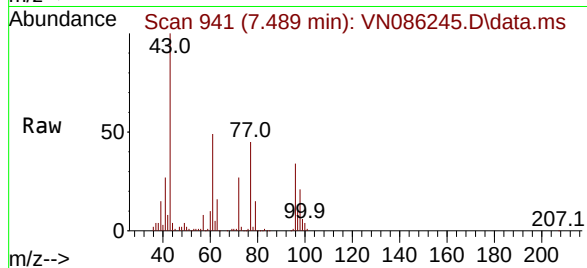
#31
2,2-Dichloropropane
Concen: 19.298 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 77 Resp: 7873
Ion Ratio Lower Upper
77 100
97 23.5 18.8 28.2

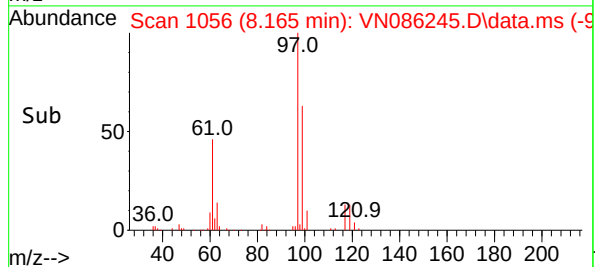
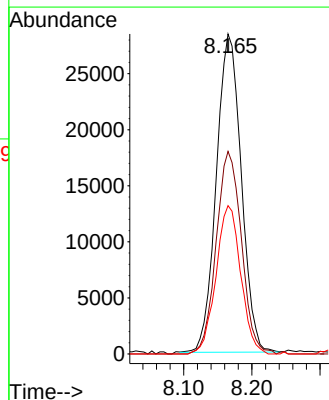
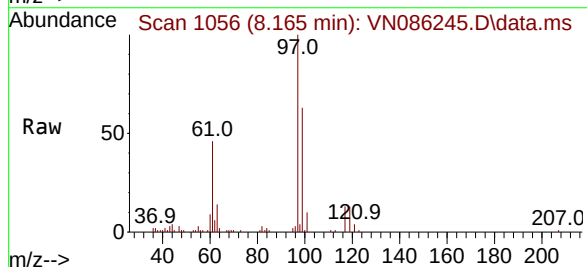
Manual Integrations
APPROVED

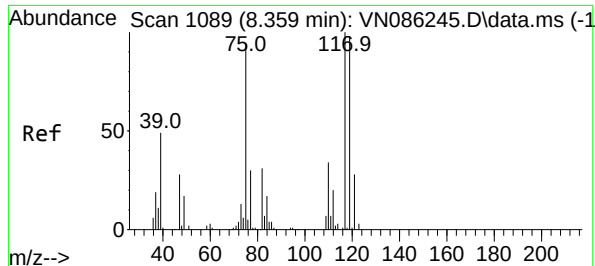
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 18.945 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 97 Resp: 72230
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 46.3 37.0 55.6





#33

Carbon Tetrachloride

Concen: 19.114 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

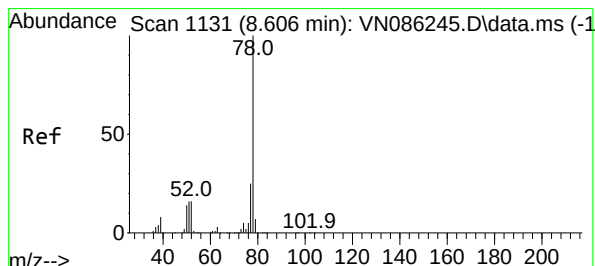
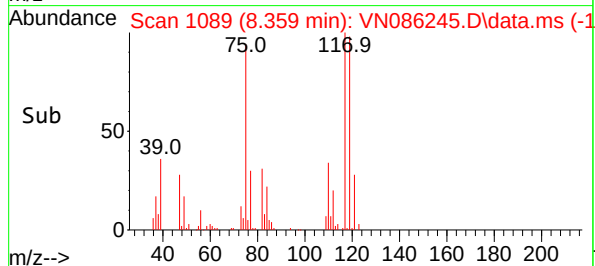
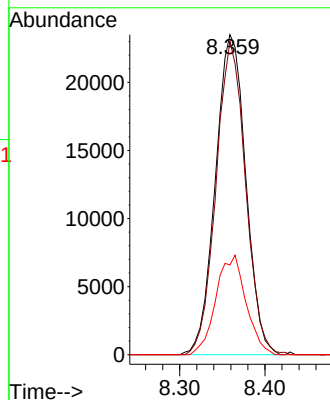
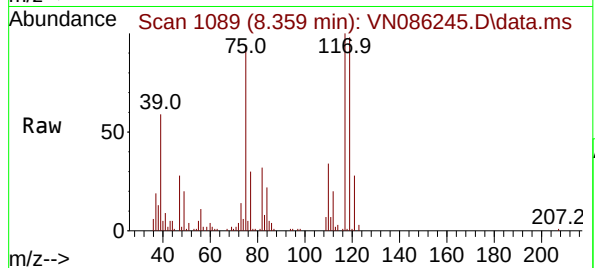
Tgt Ion:	117	Resp:	58240
Ion	Ratio	Lower	Upper
117	100		
119	97.9	78.3	117.5
121	28.1	22.5	33.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#34

Benzene

Concen: 19.103 ug/l

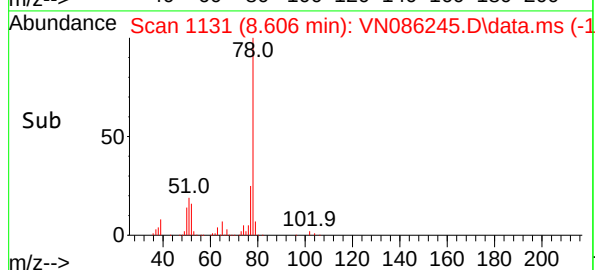
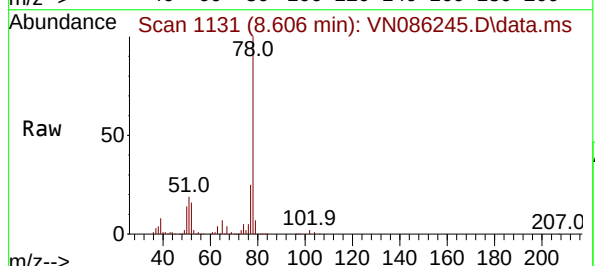
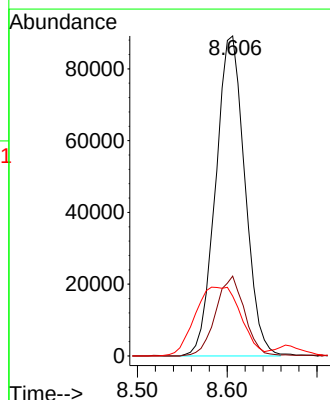
RT: 8.606 min Scan# 1131

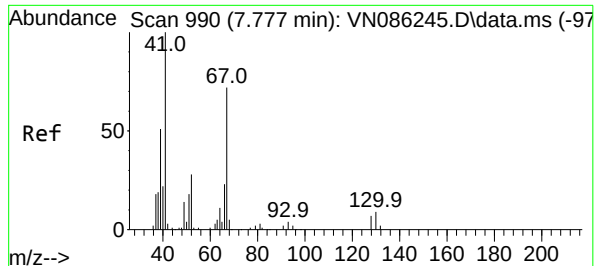
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	78	Resp:	201431
Ion	Ratio	Lower	Upper
78	100		
77	25.0	20.0	30.0
51	16.1	12.9	19.3





#35

Methacrylonitrile

Concen: 18.953 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 3924

Ion Ratio Lower Upper

41 100

39 51.5 25.8 77.3

67 72.0 36.0 108.0

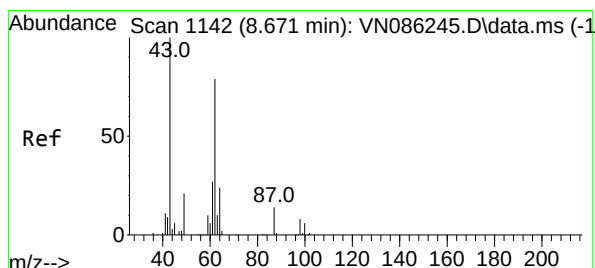
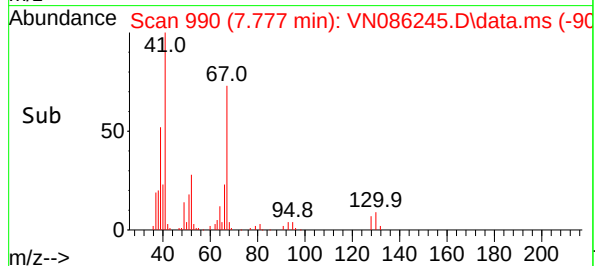
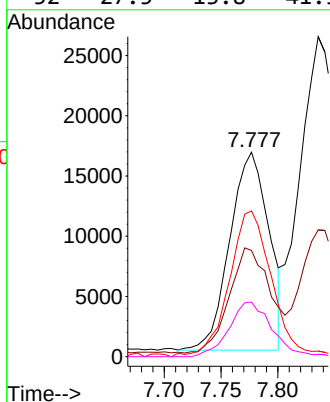
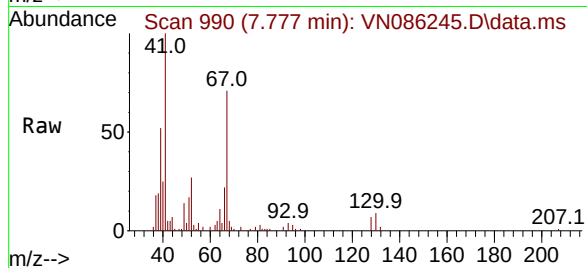
52 27.5 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 19.124 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN086245.D

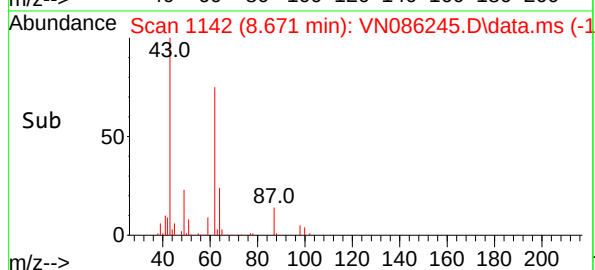
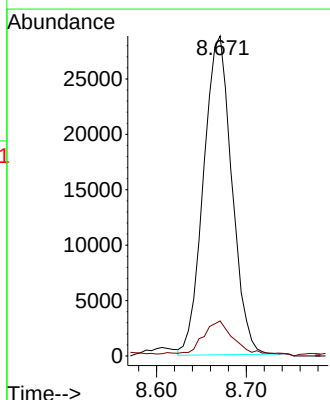
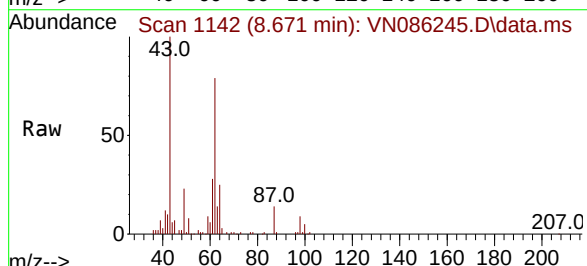
Acq: 11 Apr 2025 12:16

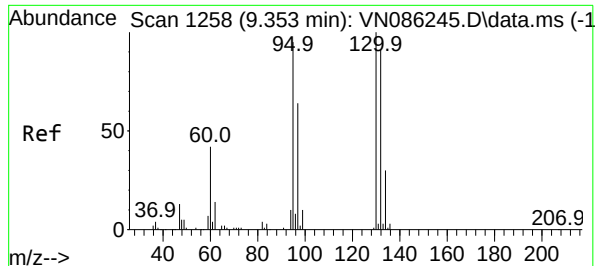
Tgt Ion: 62 Resp: 63104

Ion Ratio Lower Upper

62 100

98 10.7 8.6 12.8





#37

Trichloroethene

Concen: 19.215 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:130 Resp: 4888

Ion Ratio Lower Upper

130 100

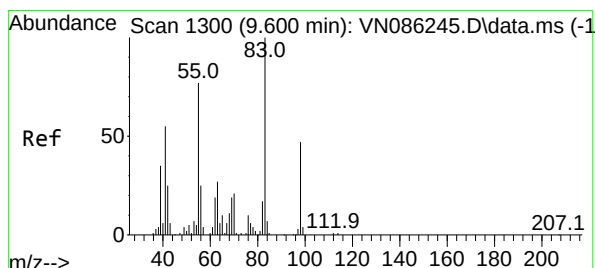
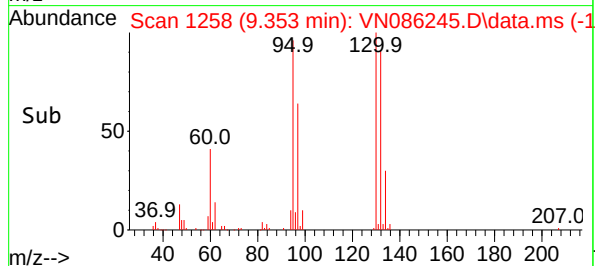
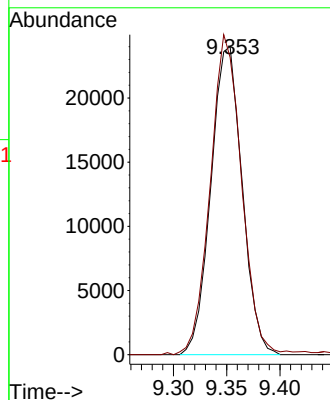
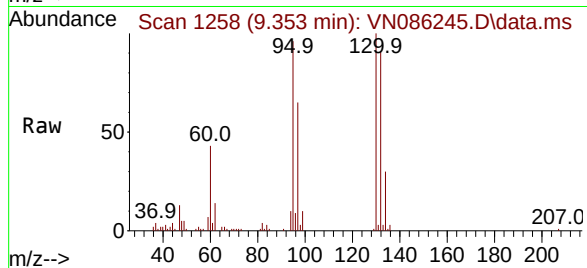
95 95.5 76.4 114.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#38

Methylcyclohexane

Concen: 18.695 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

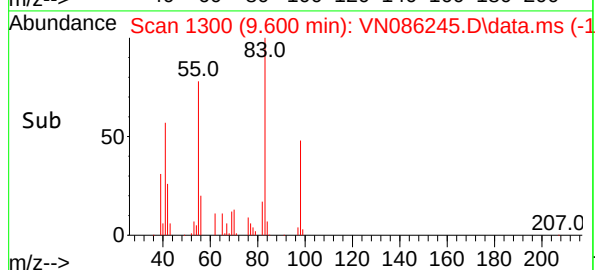
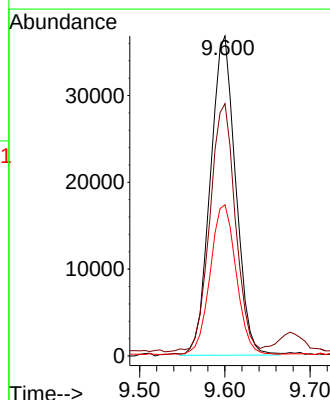
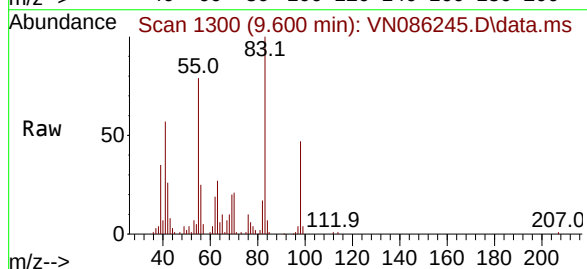
Tgt Ion: 83 Resp: 75994

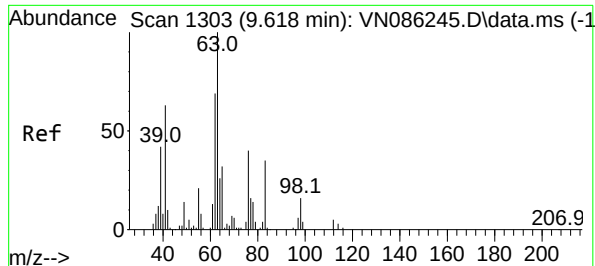
Ion Ratio Lower Upper

83 100

55 77.0 38.5 115.5

98 48.8 24.4 73.2





#39

1,2-Dichloropropane

Concen: 19.028 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 4992

Ion Ratio Lower Upper

63 100

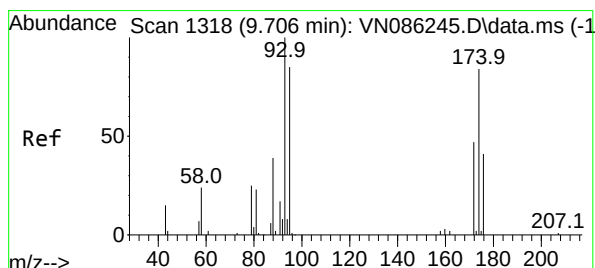
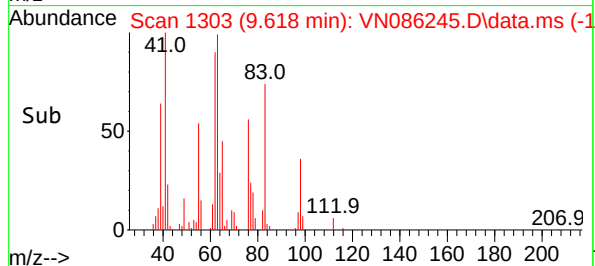
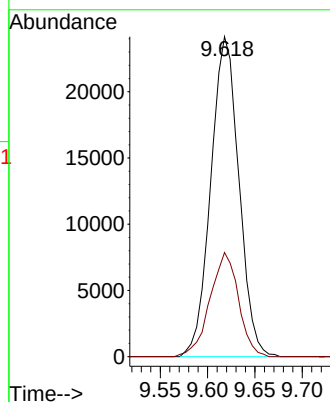
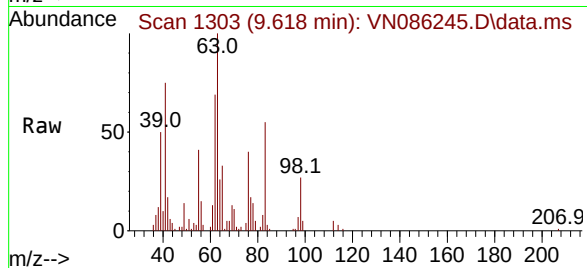
65 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 18.960 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

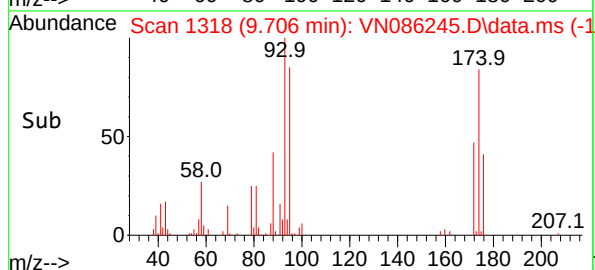
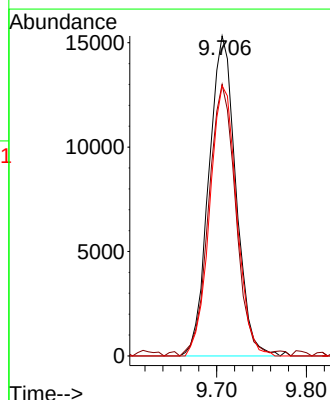
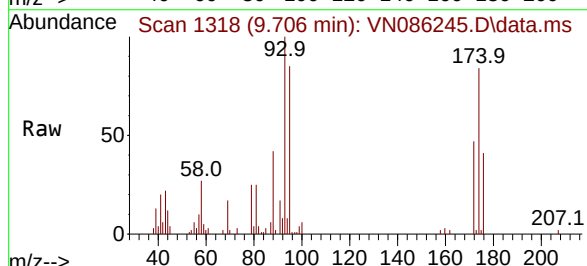
Tgt Ion: 93 Resp: 32130

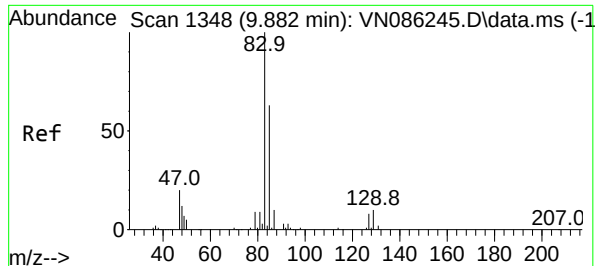
Ion Ratio Lower Upper

93 100

95 84.5 0.0 169.0

174 84.0 0.0 168.0





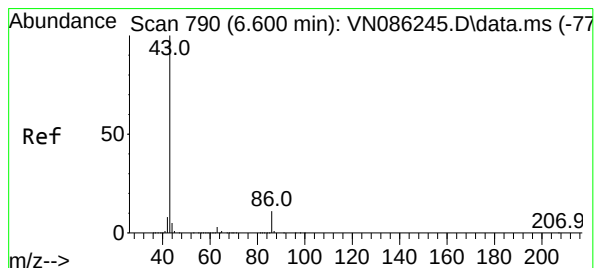
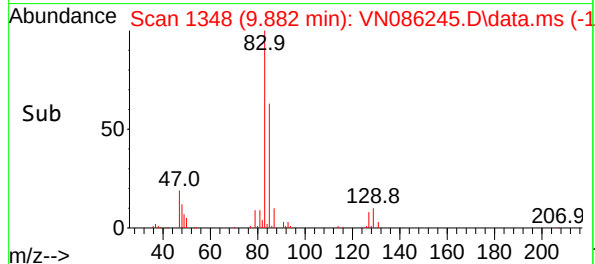
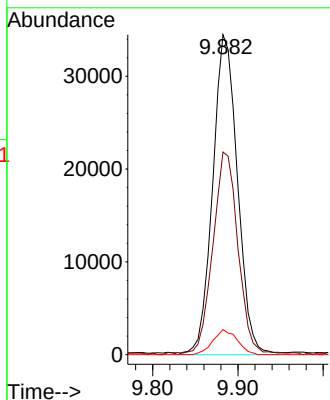
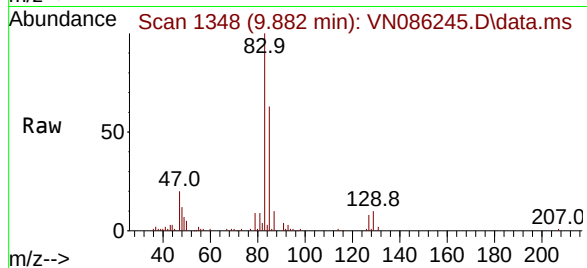
#41
Bromodichloromethane
Concen: 19.149 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 83 Resp: 6971
Ion Ratio Lower Upper
83 100
85 62.7 50.2 75.2
127 7.8 6.2 9.4

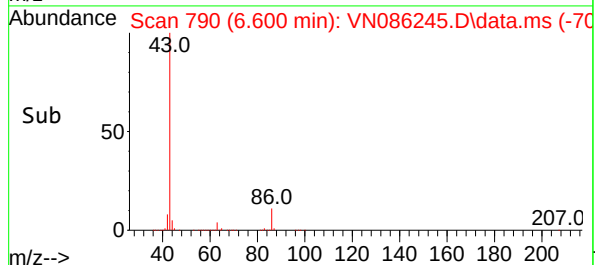
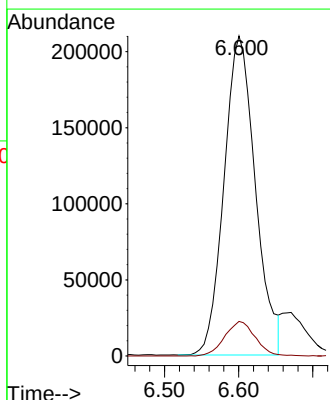
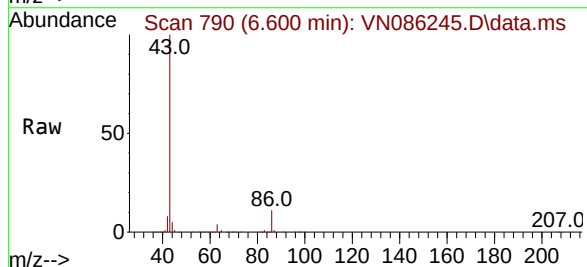
Manual Integrations
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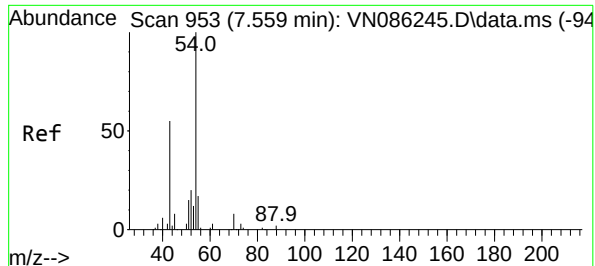
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 98.633 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 616622
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6





#43

Ethyl Acetate

Concen: 19.607 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 7263

Ion Ratio Lower Upper

43 100

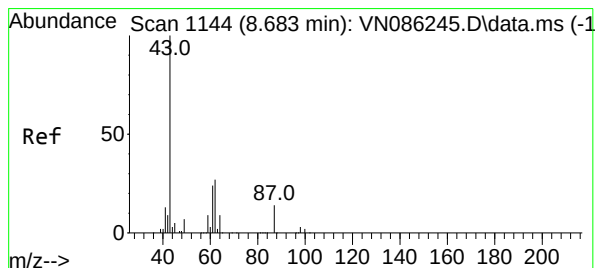
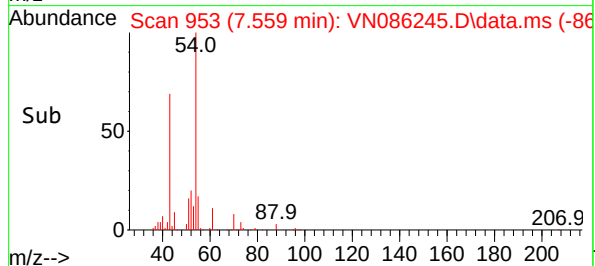
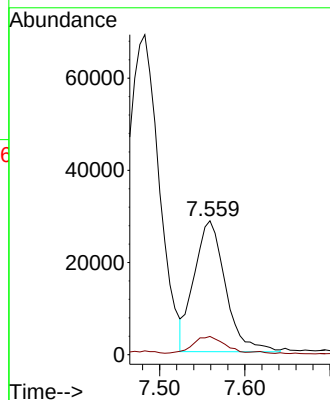
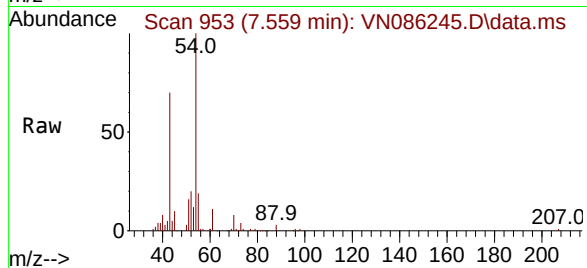
45 14.0 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#44

Isopropyl Acetate

Concen: 18.850 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086245.D

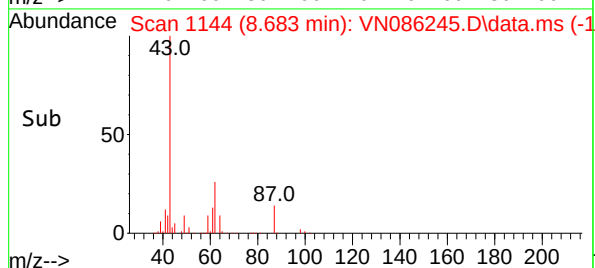
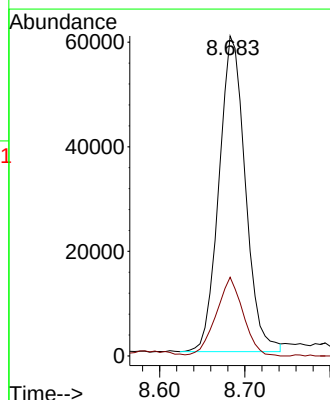
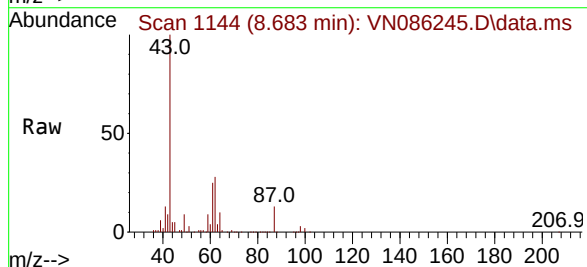
Acq: 11 Apr 2025 12:16

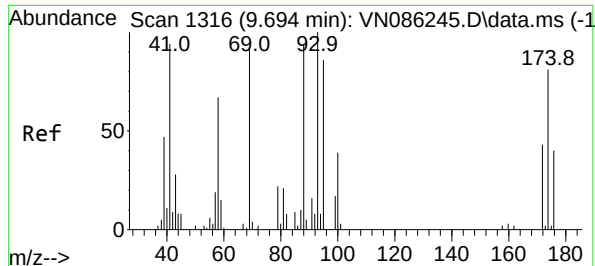
Tgt Ion: 43 Resp: 129543

Ion Ratio Lower Upper

43 100

61 25.6 20.5 30.7





#45

1,4-Dioxane

Concen: 386.736 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 21134

Ion Ratio Lower Upper

88 100

43 18.0 14.4 21.6

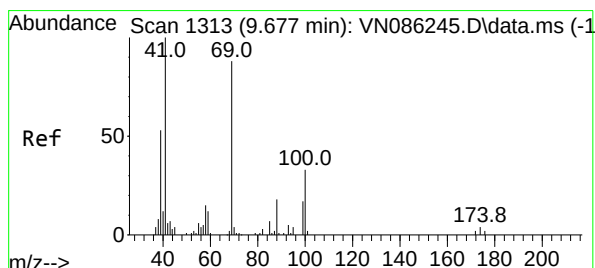
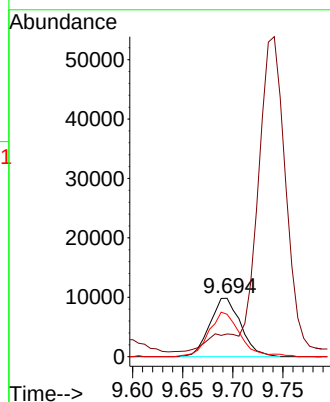
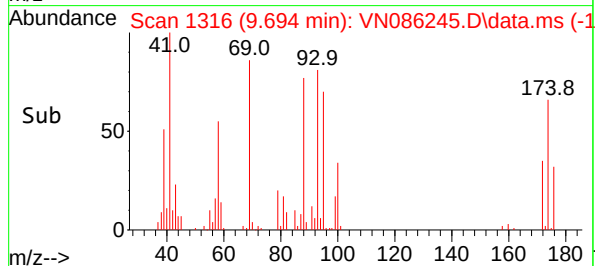
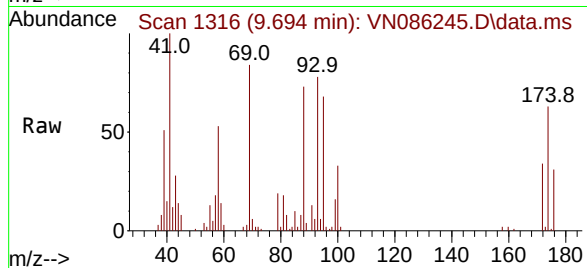
58 74.8 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 19.192 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

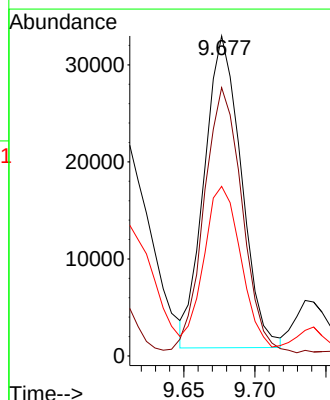
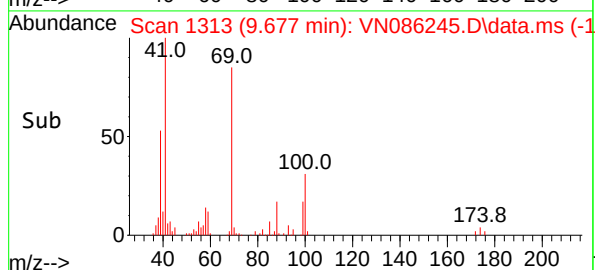
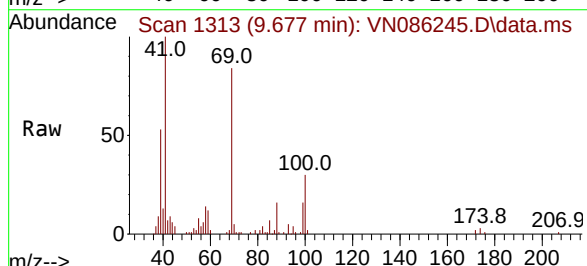
Tgt Ion: 41 Resp: 58112

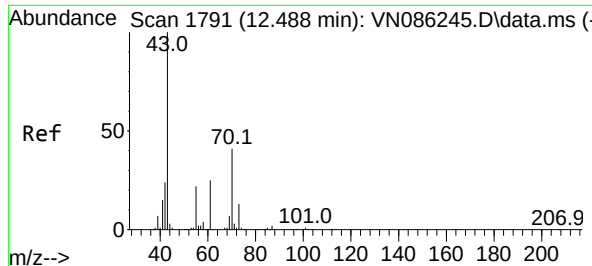
Ion Ratio Lower Upper

41 100

69 86.4 43.2 129.6

39 52.7 26.4 79.0





#47

n-amy1 Acetate

Concen: 18.304 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 10163

Ion Ratio Lower Upper

43 100

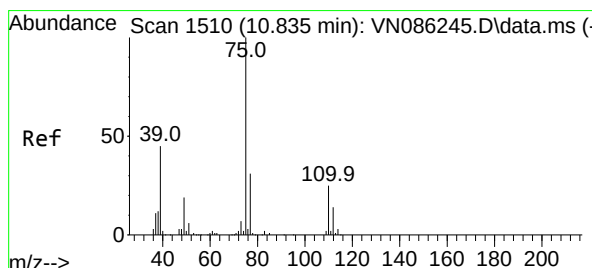
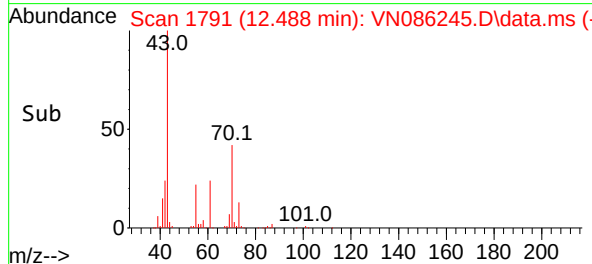
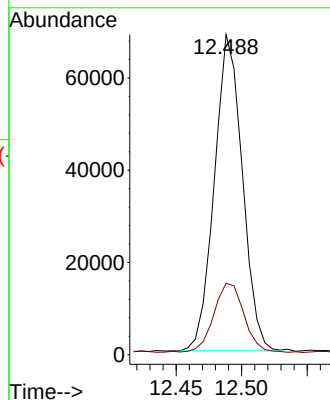
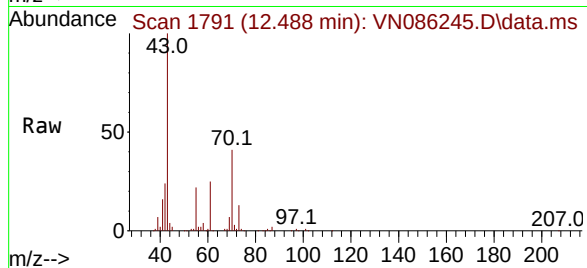
55 23.7 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 18.977 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN086245.D

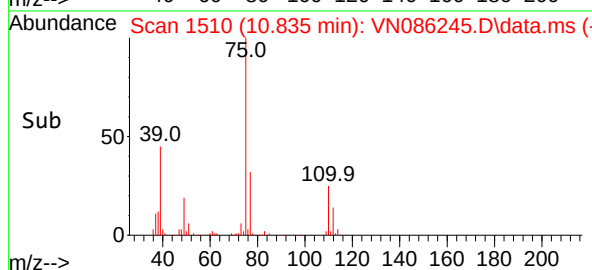
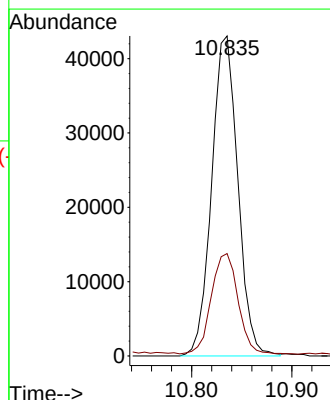
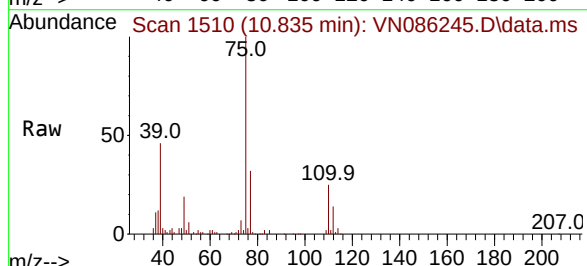
Acq: 11 Apr 2025 12:16

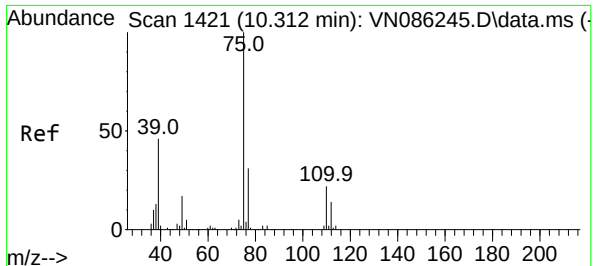
Tgt Ion: 75 Resp: 78104

Ion Ratio Lower Upper

75 100

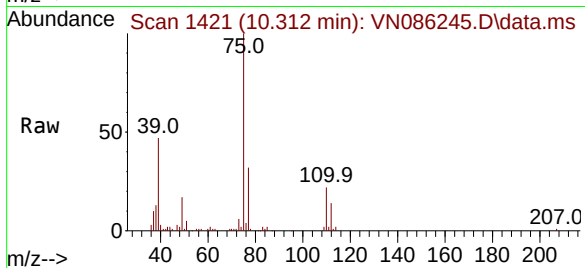
77 31.4 25.1 37.7





#49
cis-1,3-Dichloropropene
Concen: 19.170 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

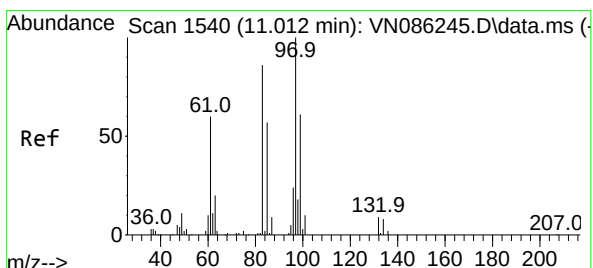
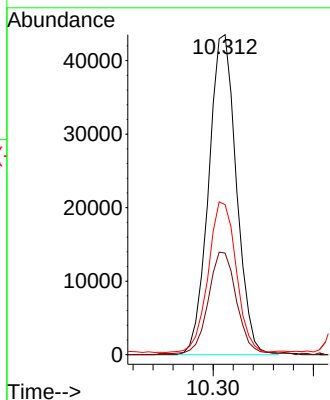
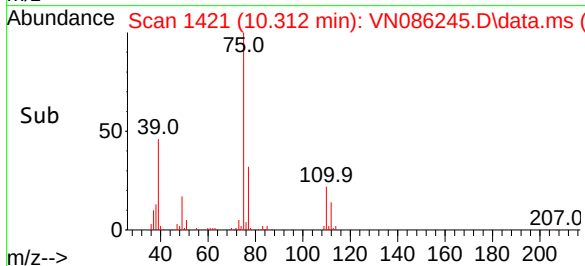
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 75 Resp: 8350
Ion Ratio Lower Upper
75 100
77 31.2 25.0 37.4
39 45.9 36.7 55.1

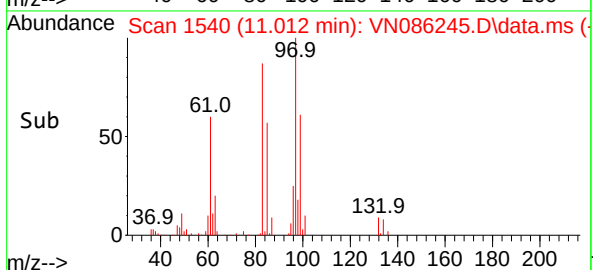
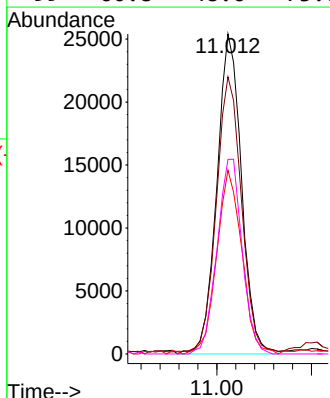
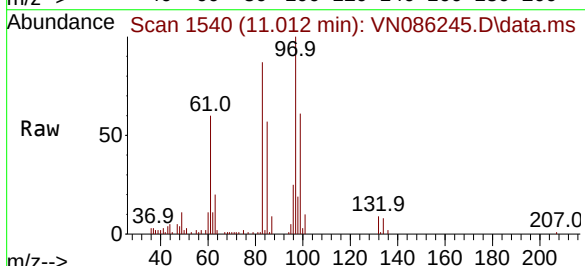
Manual Integrations
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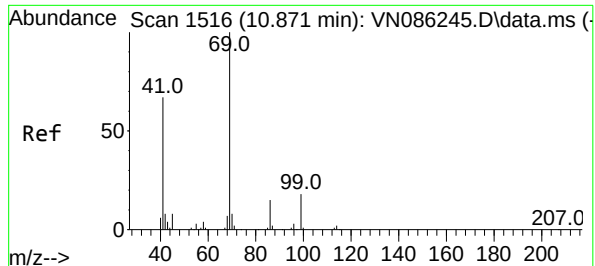
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#50
1,1,2-Trichloroethane
Concen: 19.308 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

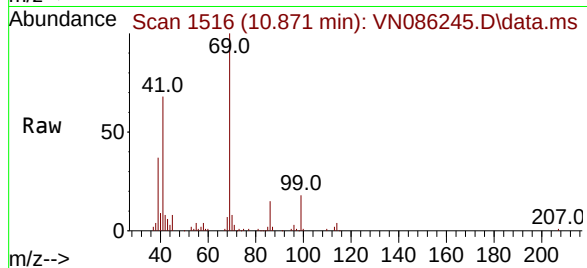
Tgt Ion: 97 Resp: 45892
Ion Ratio Lower Upper
97 100
83 85.8 68.6 103.0
85 57.4 45.9 68.9
99 60.8 48.6 73.0





#51
Ethyl methacrylate
Concen: 19.027 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

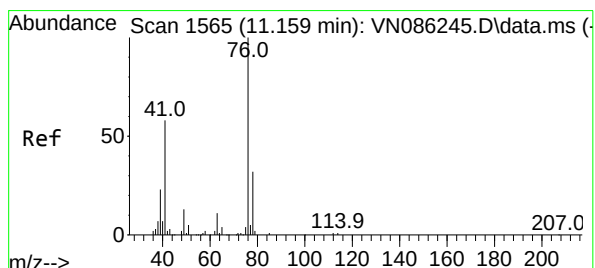
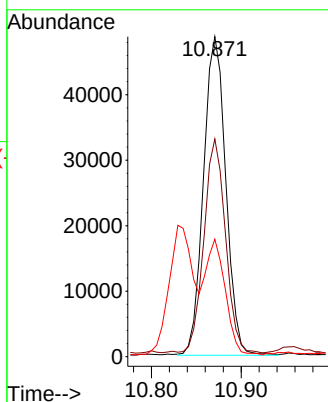
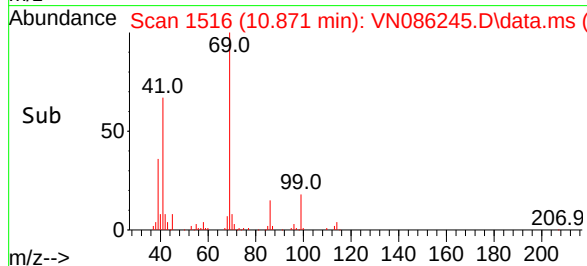
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 69 Resp: 8404
Ion Ratio Lower Upper
69 100
41 67.1 33.6 100.6
39 35.6 17.8 53.4

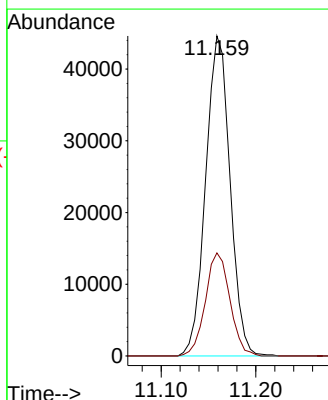
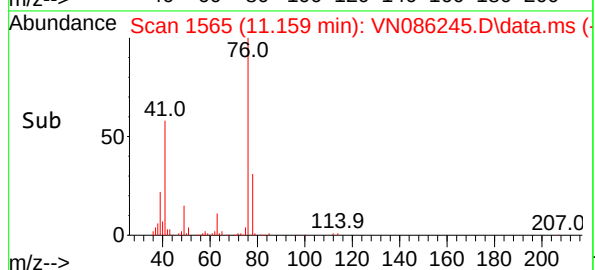
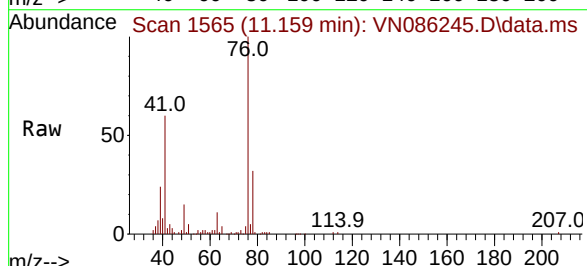
Manual Integrations
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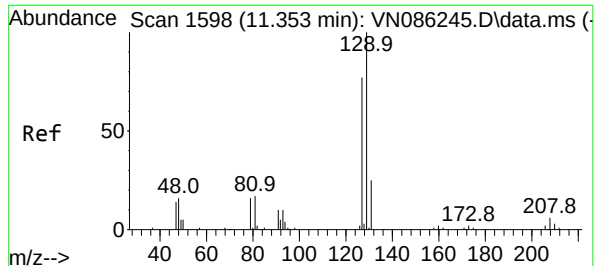
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 18.875 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

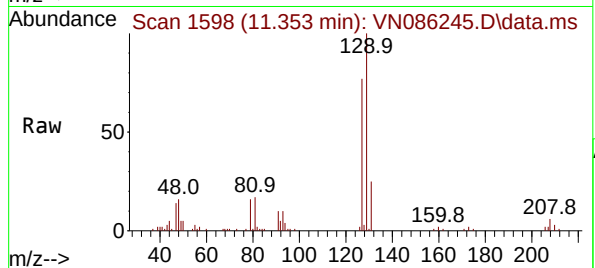
Tgt Ion: 76 Resp: 79960
Ion Ratio Lower Upper
76 100
78 32.3 0.0 64.6





#53
Dibromochloromethane
Concen: 19.190 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

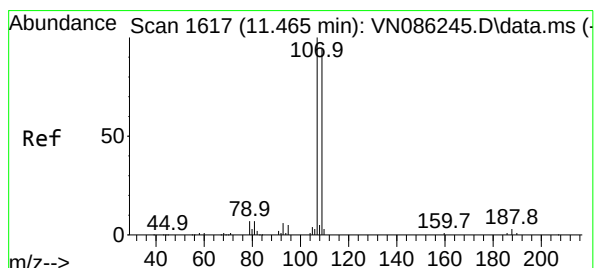
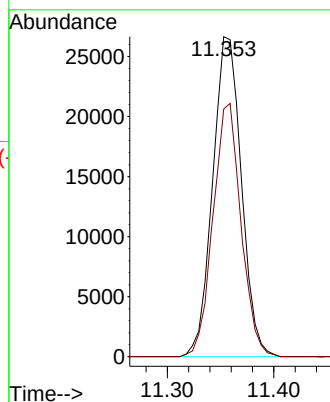
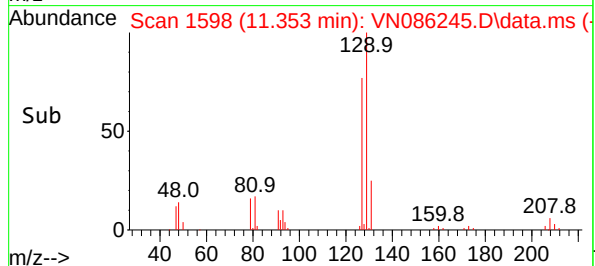
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:129 Resp: 49892
Ion Ratio Lower Upper
129 100
127 77.0 38.5 115.5

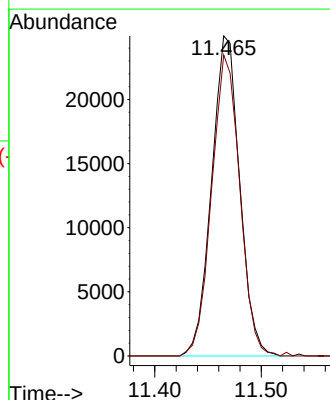
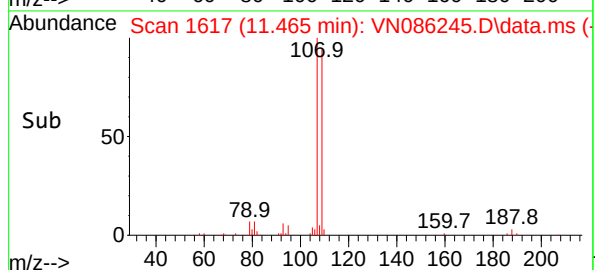
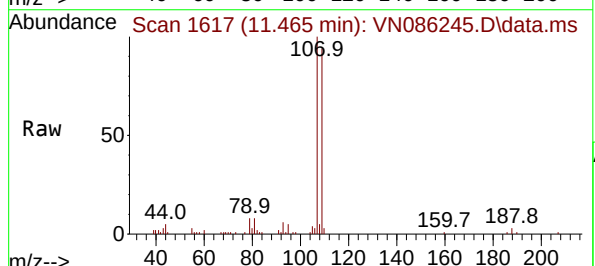
Manual Integrations
APPROVED

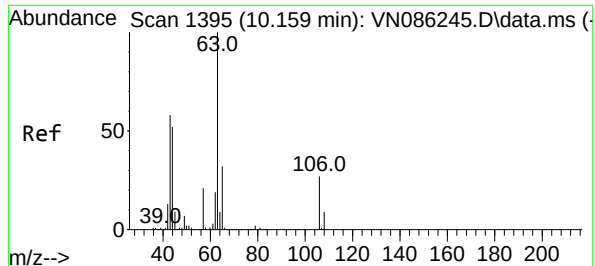
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 19.034 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

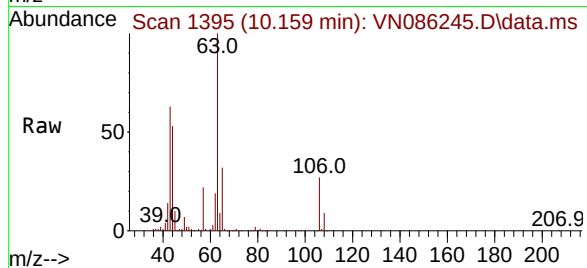
Tgt Ion:107 Resp: 45668
Ion Ratio Lower Upper
107 100
109 94.0 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 119.582 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

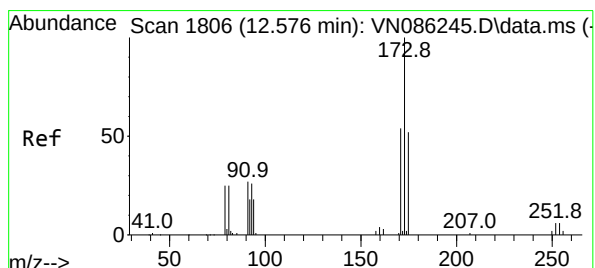
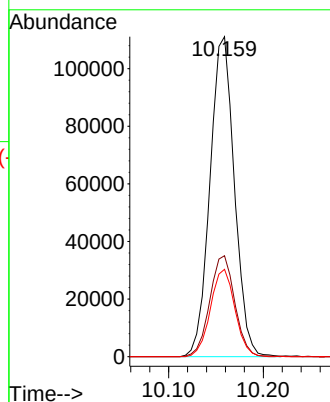
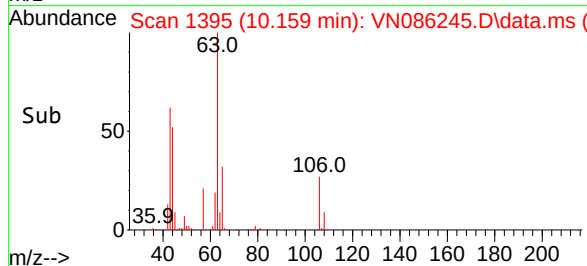
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 63 Resp: 199584
Ion Ratio Lower Upper
63 100
65 32.3 25.8 38.8
106 27.3 21.8 32.8

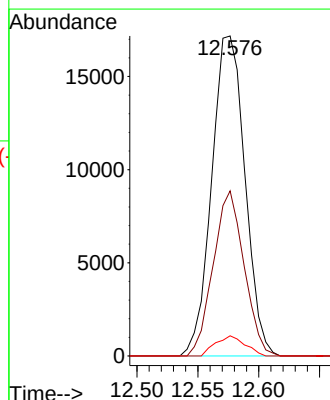
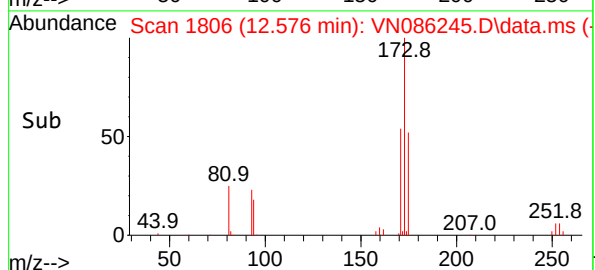
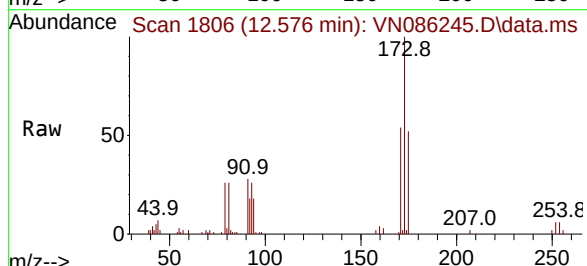
Manual Integrations
APPROVED

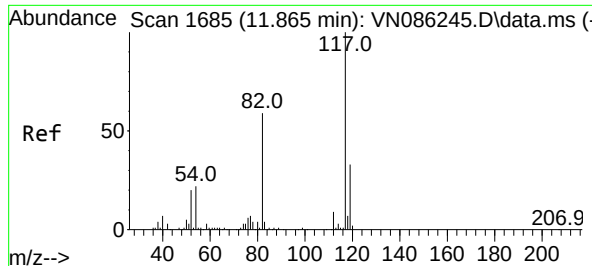
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 19.173 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

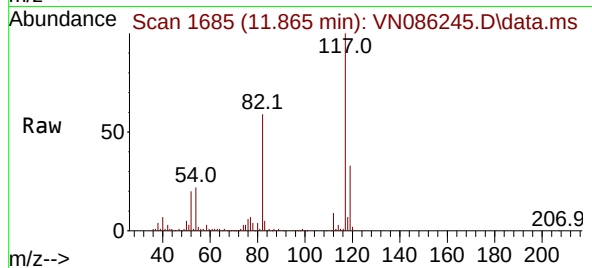
Tgt Ion:173 Resp: 32612
Ion Ratio Lower Upper
173 100
175 47.8 38.2 57.4
254 5.6 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

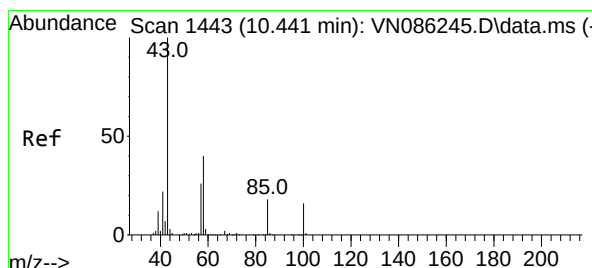
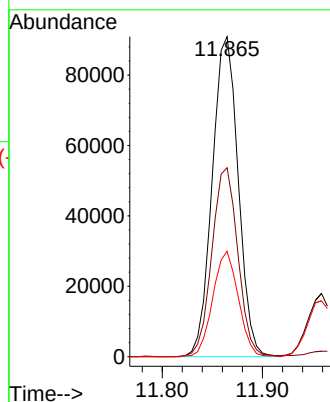
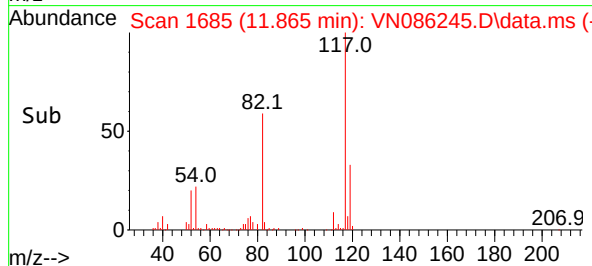
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 117 Resp: 16390
Ion Ratio Lower Upper
117 100
82 59.1 47.3 70.9
119 32.4 25.9 38.9

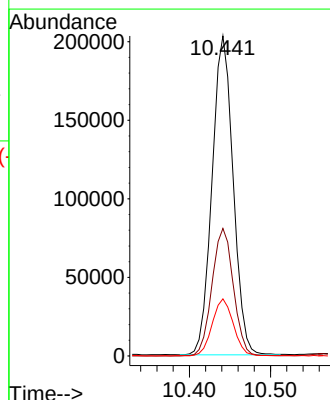
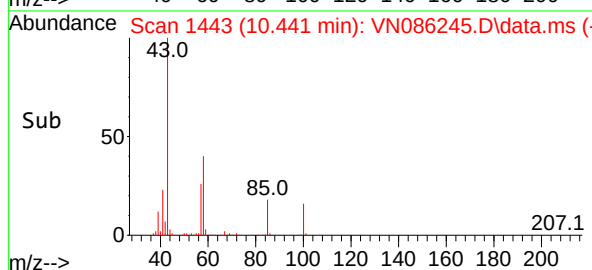
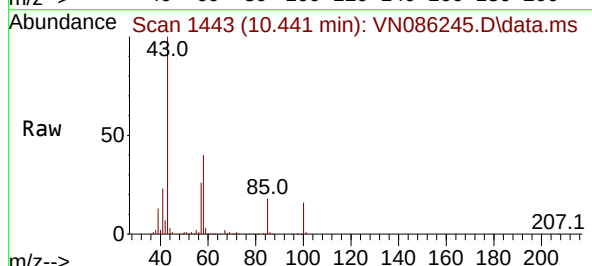
Manual Integrations
APPROVED

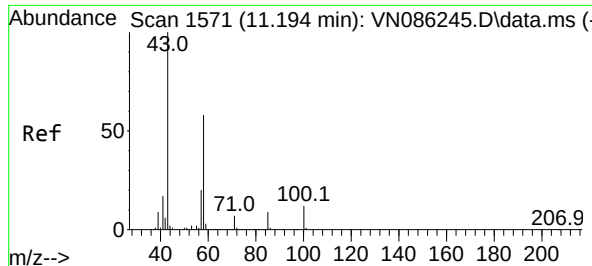
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 98.554 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 366576
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 18.0 14.4 21.6





#59

2-Hexanone

Concen: 97.984 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN086245.D

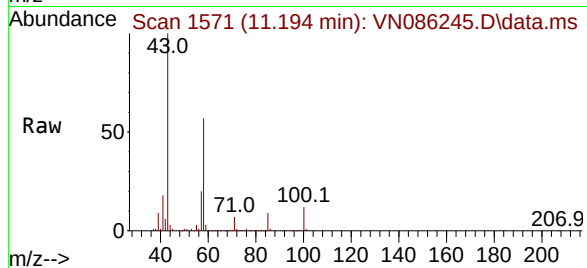
Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



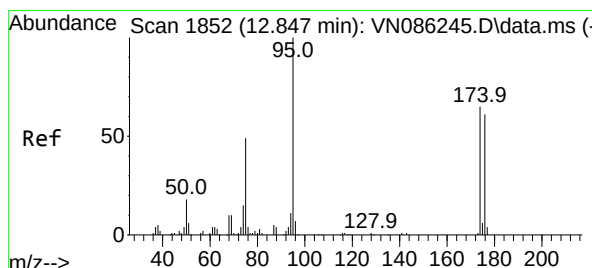
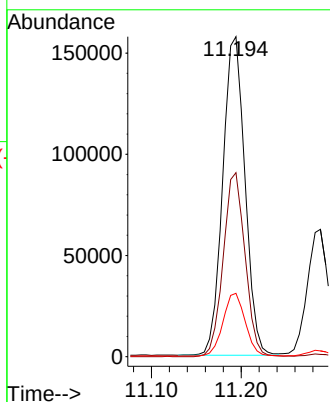
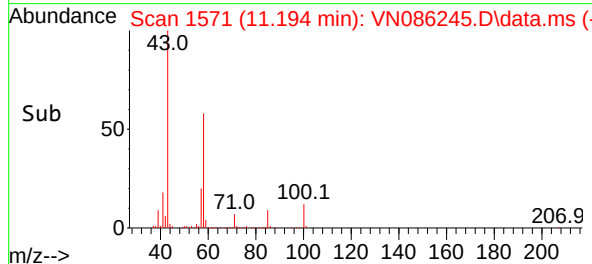
Tgt Ion:	43	Resp:	271384
Ion Ratio	100	Lower	Upper
43	100		
58	56.6	45.3	67.9
57	19.7	15.8	23.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#60

4-Bromofluorobenzene

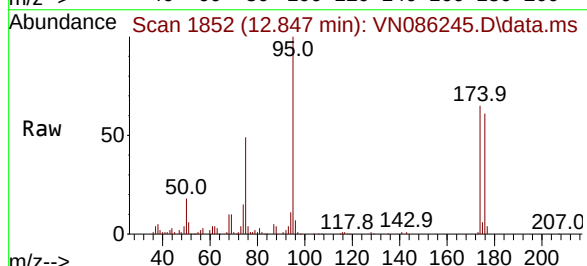
Concen: 29.820 ug/l

RT: 12.847 min Scan# 1852

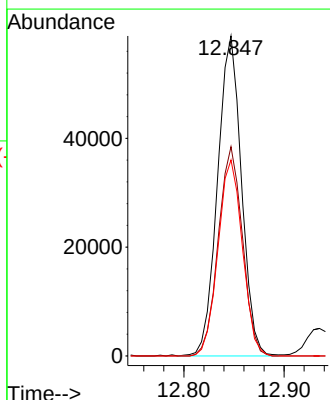
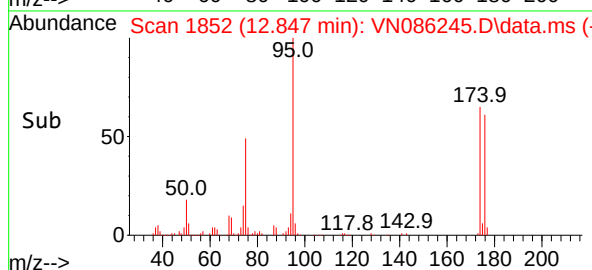
Delta R.T. 0.000 min

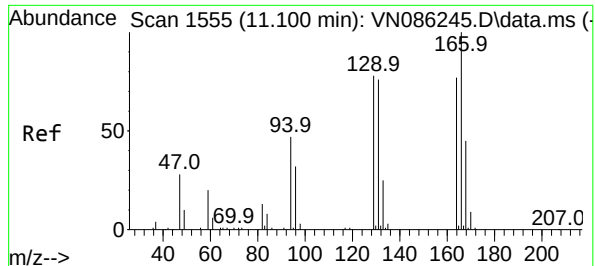
Lab File: VN086245.D

Acq: 11 Apr 2025 12:16



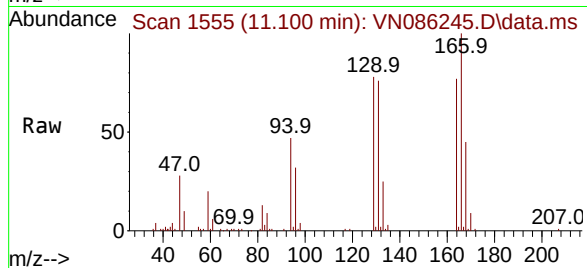
Tgt Ion:	95	Resp:	97314
Ion Ratio	100	Lower	Upper
95	100		
174	65.9	52.7	79.1
176	62.3	49.8	74.8





#61
Tetrachloroethene
Concen: 19.134 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

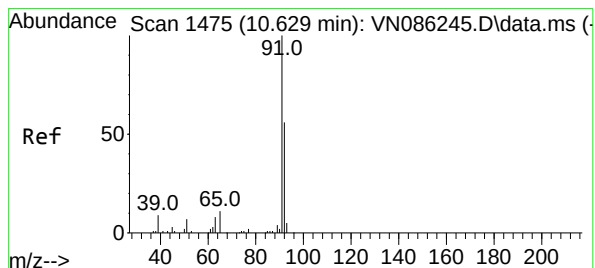
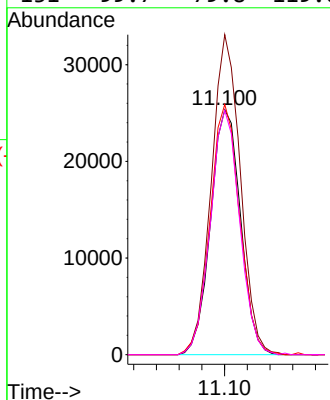
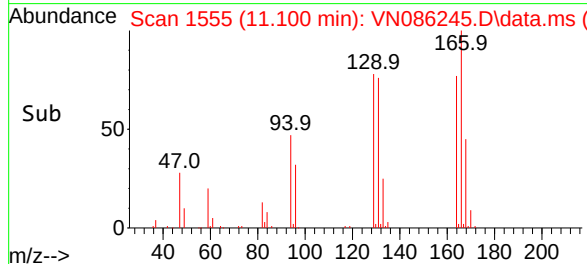
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:164 Resp: 4631
Ion Ratio Lower Upper
164 100
166 130.6 104.5 156.7
129 102.1 81.7 122.5
131 99.7 79.8 119.6

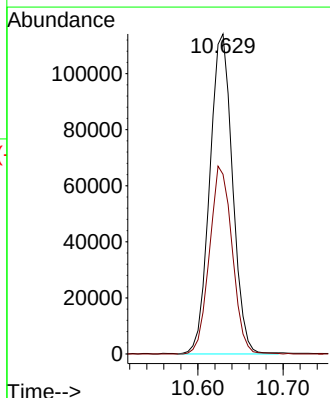
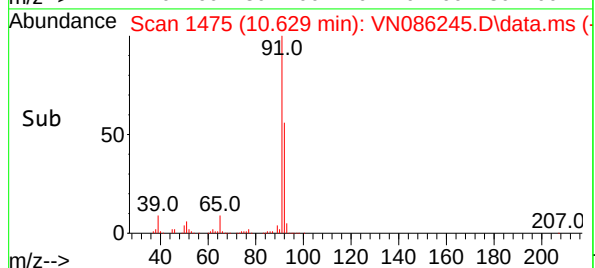
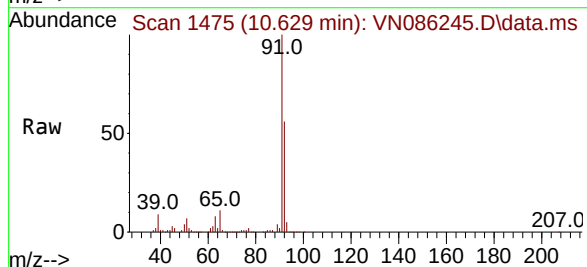
Manual Integrations
APPROVED

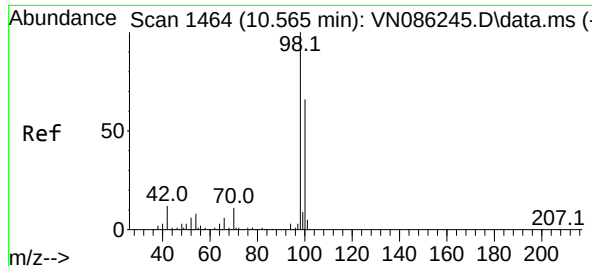
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 19.292 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

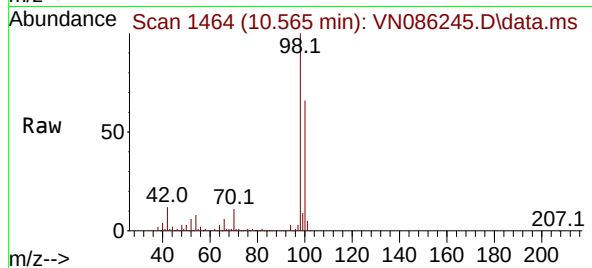
Tgt Ion: 91 Resp: 212088
Ion Ratio Lower Upper
91 100
92 58.5 46.8 70.2





#63
Toluene-d8
Concen: 30.431 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

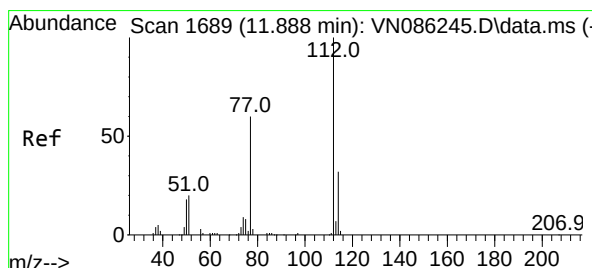
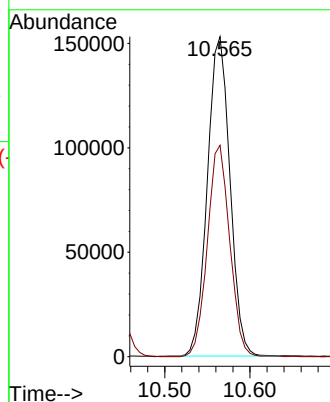
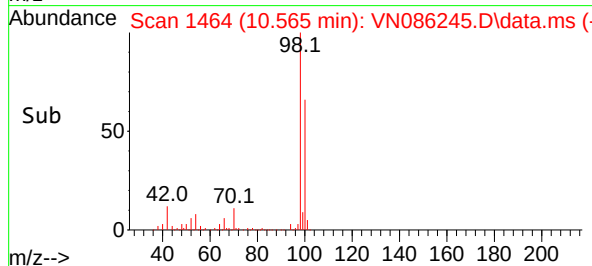
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 98 Resp: 281589
Ion Ratio Lower Upper
98 100
100 65.4 52.3 78.5

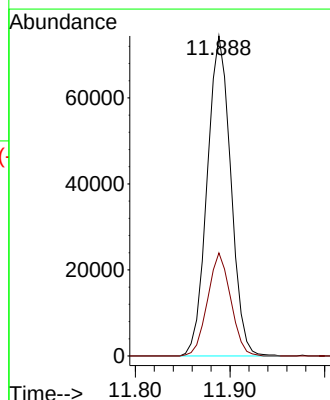
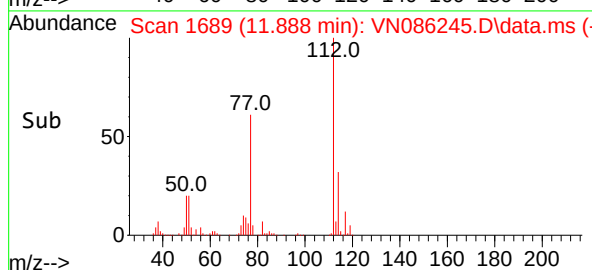
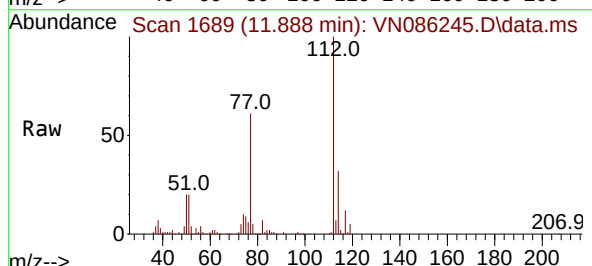
Manual Integrations
APPROVED

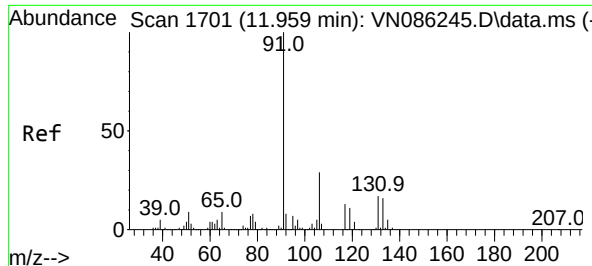
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 19.188 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

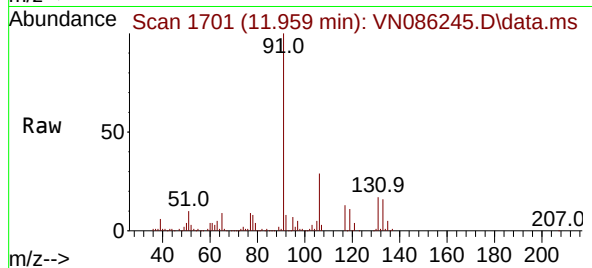
Tgt Ion:112 Resp: 128877
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 19.244 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

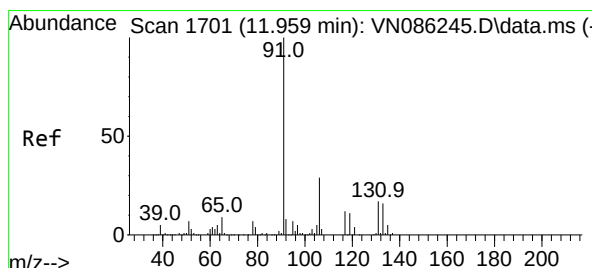
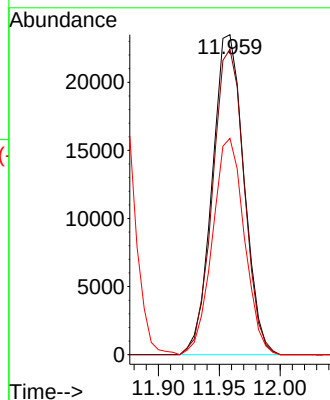
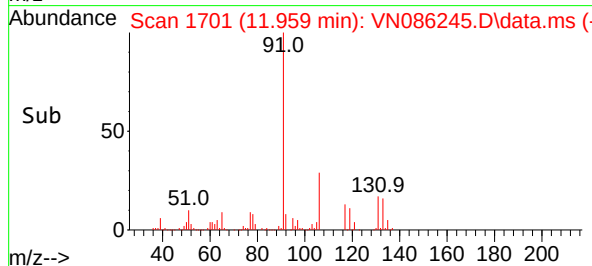
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:131 Resp: 42650
Ion Ratio Lower Upper
131 100
133 95.2 0.0 190.4
119 67.8 0.0 135.6

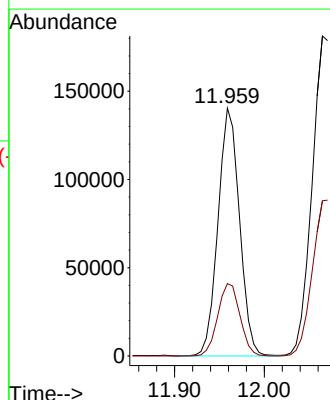
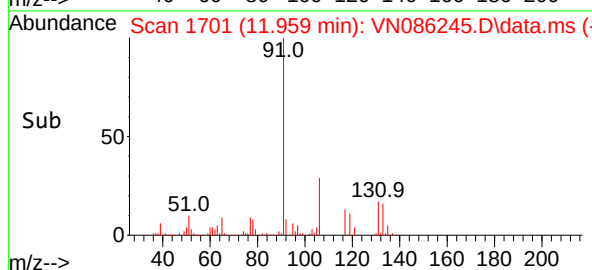
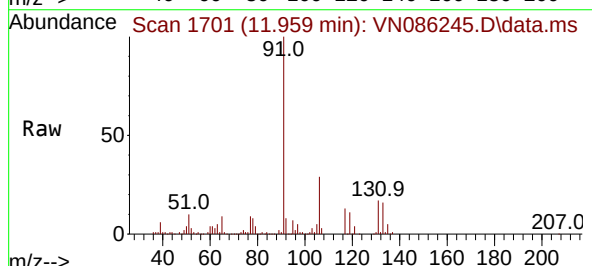
Manual Integrations
APPROVED

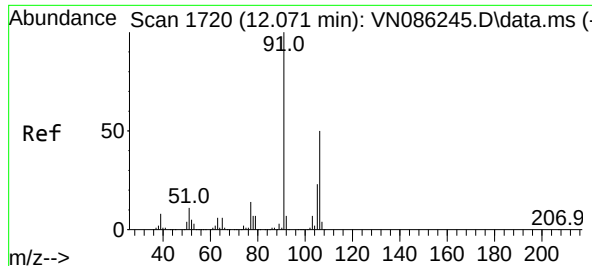
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 19.177 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 233805
Ion Ratio Lower Upper
91 100
106 29.2 23.4 35.0





#67

m/p-Xylenes

Concen: 38.024 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:106 Resp: 172384

Ion Ratio Lower Upper

106 100

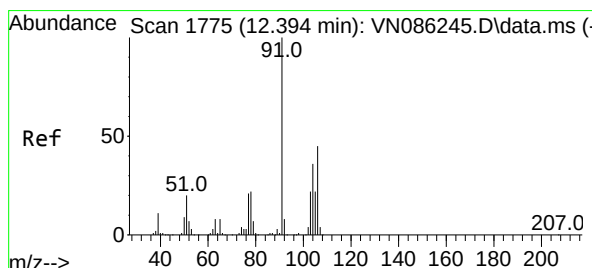
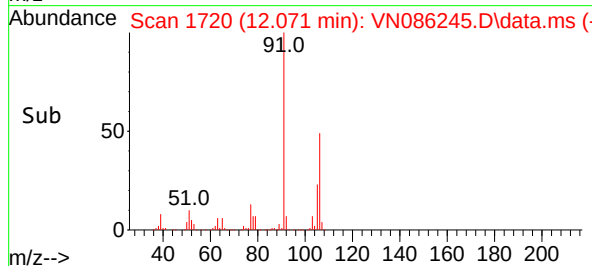
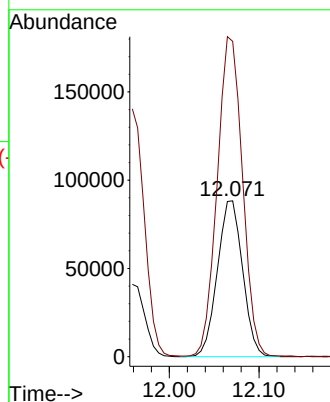
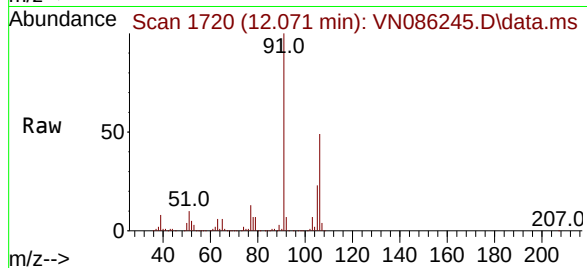
91 205.6 164.5 246.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#68

o-Xylene

Concen: 19.101 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN086245.D

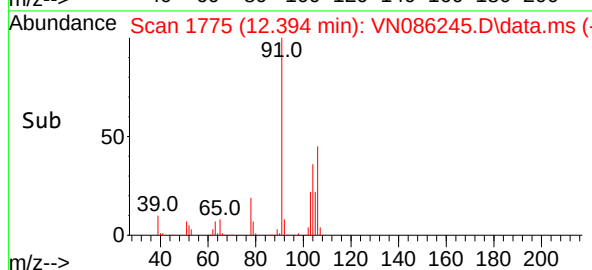
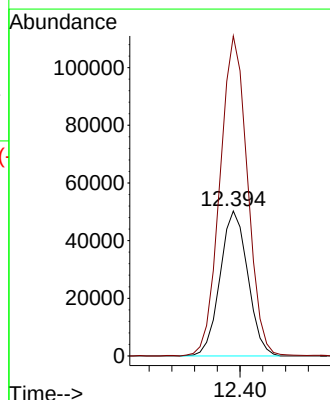
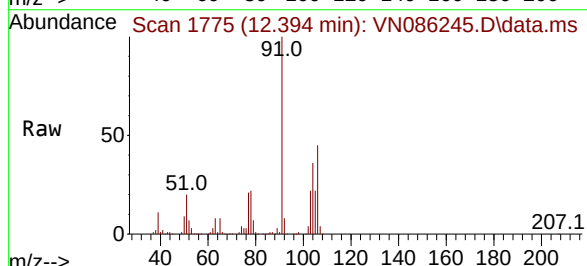
Acq: 11 Apr 2025 12:16

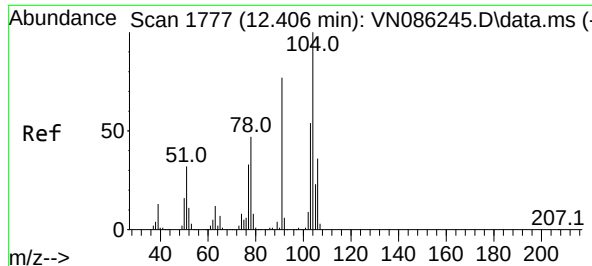
Tgt Ion:106 Resp: 85173

Ion Ratio Lower Upper

106 100

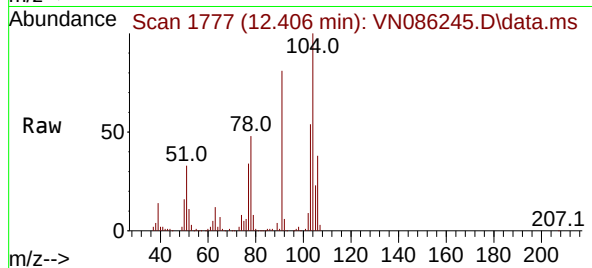
91 219.6 109.8 329.4





#69
Styrene
Concen: 18.793 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

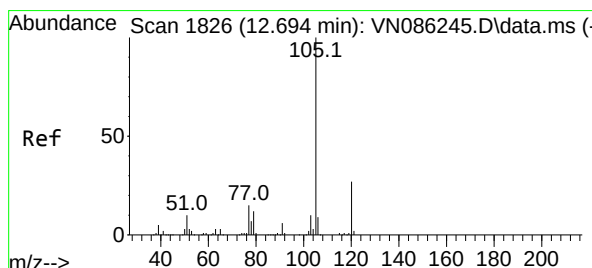
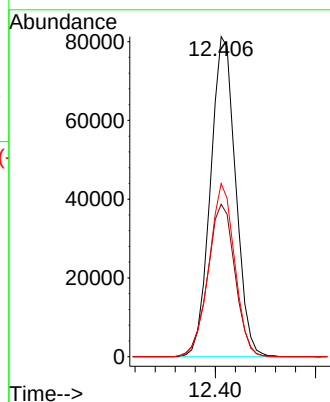
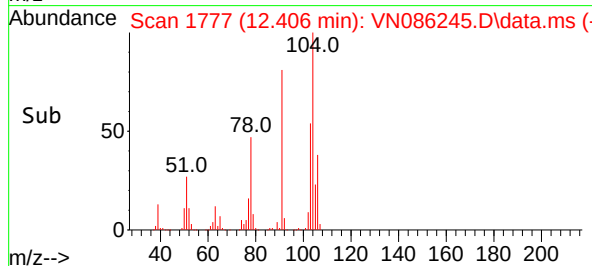
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:104 Resp: 141327
Ion Ratio Lower Upper
104 100
78 51.7 41.4 62.0
103 55.3 44.2 66.4

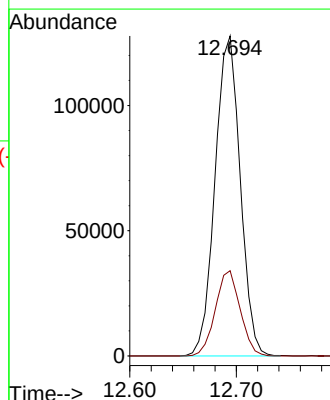
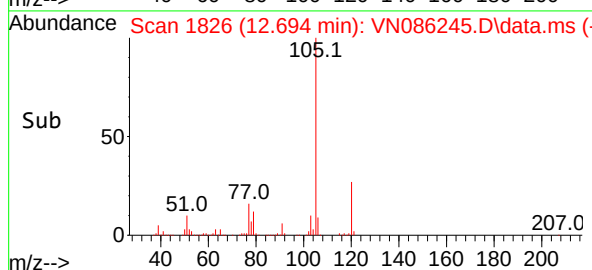
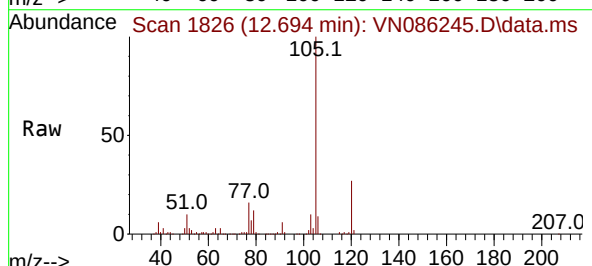
Manual Integrations
APPROVED

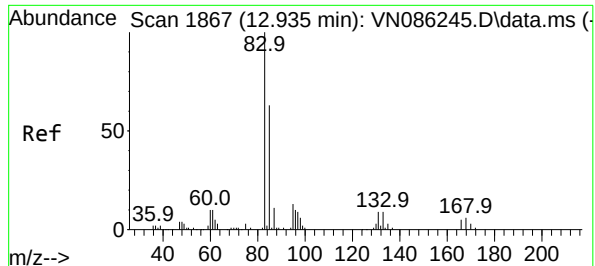
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 19.057 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:105 Resp: 209526
Ion Ratio Lower Upper
105 100
120 26.2 18.3 34.1





#71

1,1,2,2-Tetrachloroethane

Concen: 19.472 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

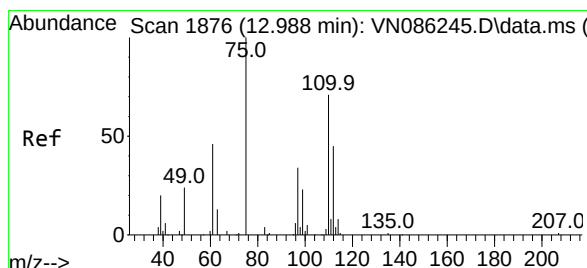
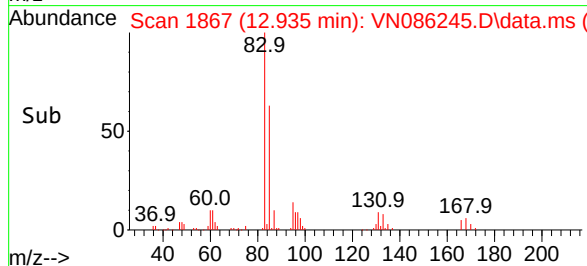
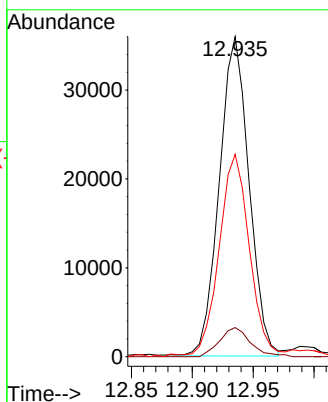
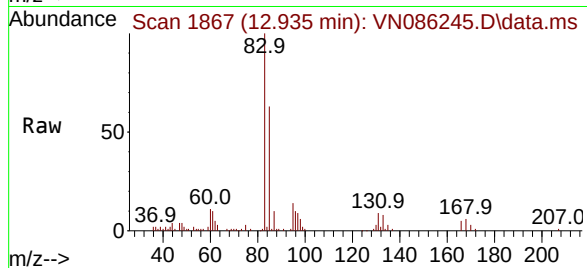
Tgt Ion:	83	Resp:	60930
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.5	32.3	96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#72

1,2,3-Trichloropropane

Concen: 13.969 ug/l m

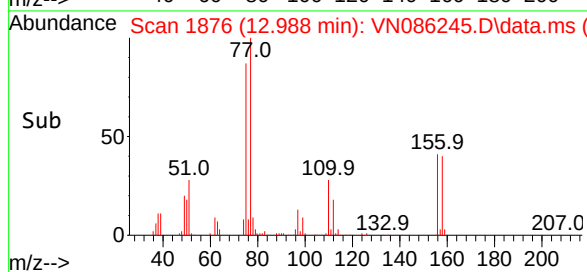
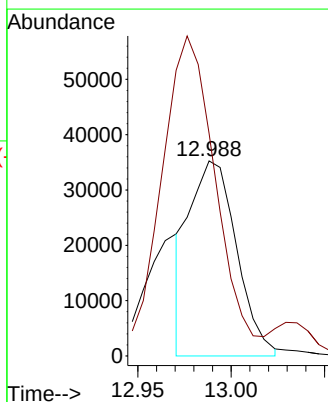
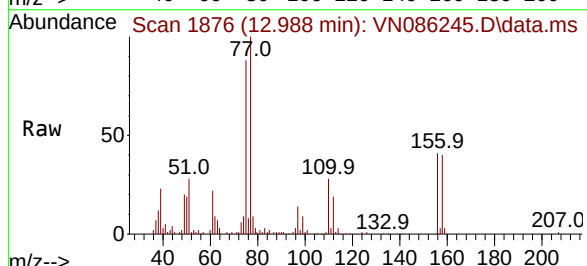
RT: 12.988 min Scan# 1876

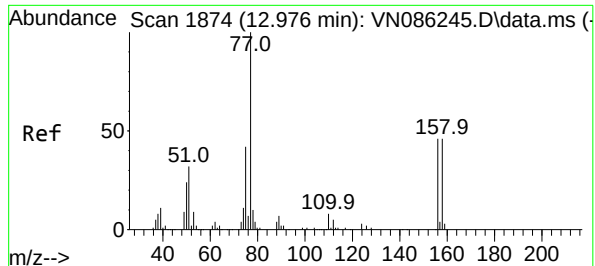
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	75	Resp:	61888
Ion	Ratio	Lower	Upper
75	100		
77	190.0	0.0	380.0





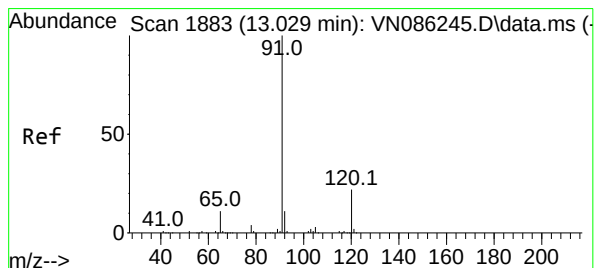
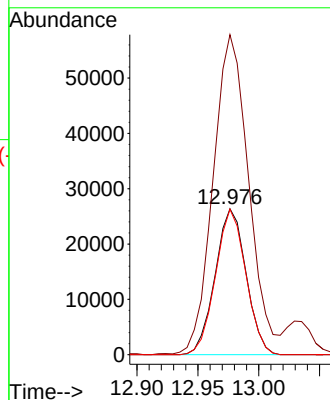
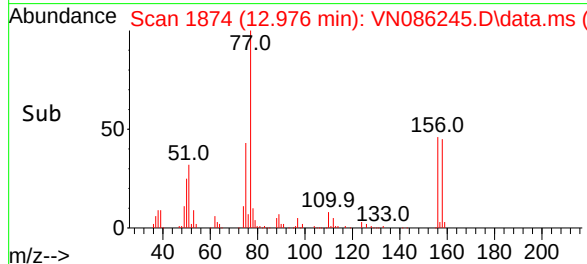
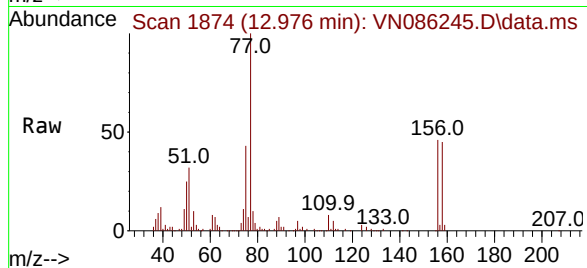
#73
Bromobenzene
Concen: 19.116 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:156 Resp: 4656
Ion Ratio Lower Upper
156 100
77 252.6 0.0 505.2
158 97.5 0.0 195.0

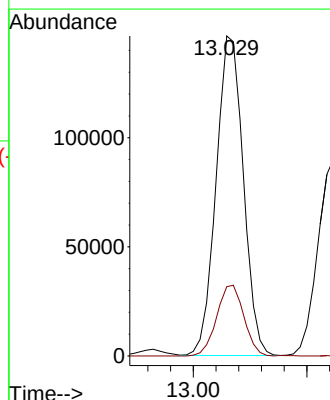
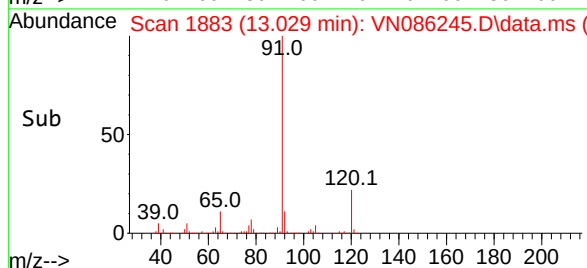
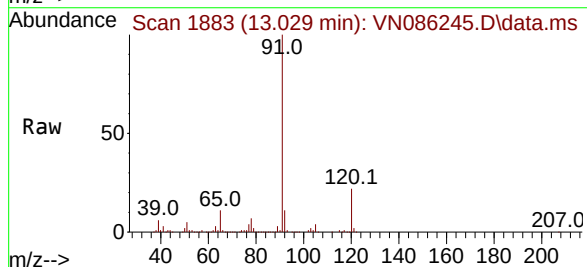
Manual Integrations
APPROVED

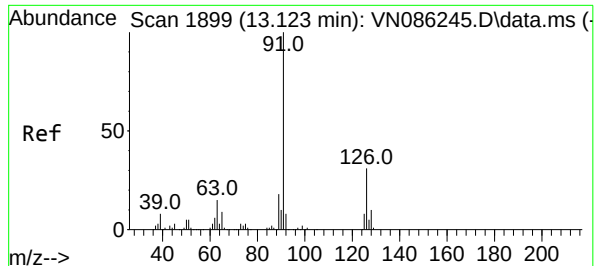
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 18.707 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 243573
Ion Ratio Lower Upper
91 100
120 22.1 0.0 44.0





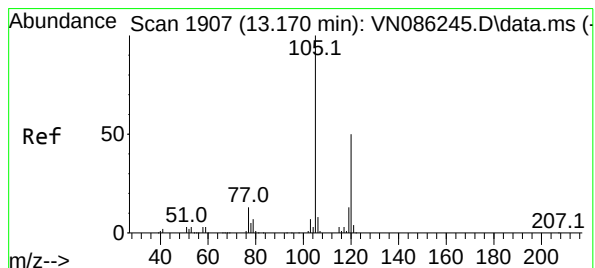
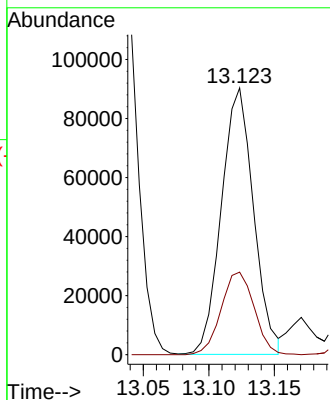
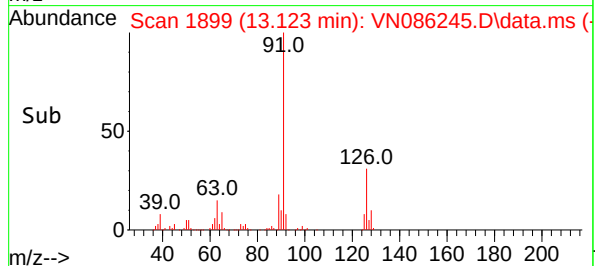
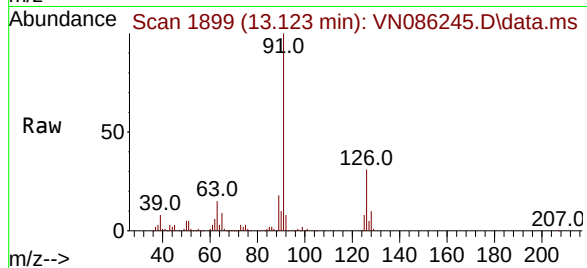
#75
2-Chlorotoluene
Concen: 18.914 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 15434
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.4

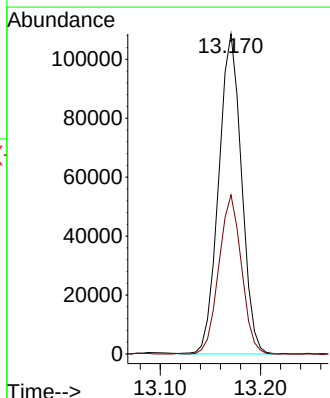
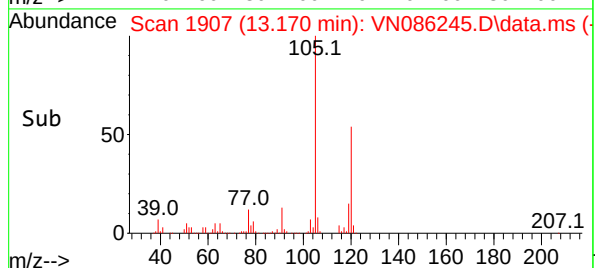
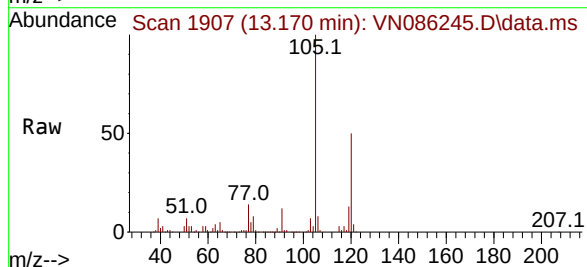
Manual Integrations
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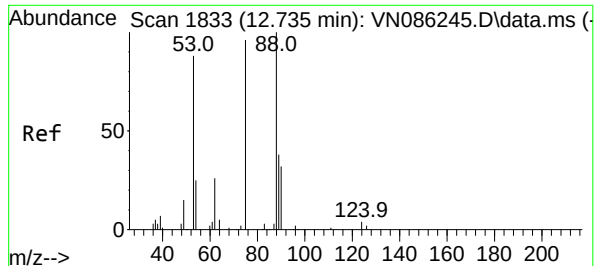
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.046 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:105 Resp: 172014
Ion Ratio Lower Upper
105 100
120 49.0 0.0 98.0





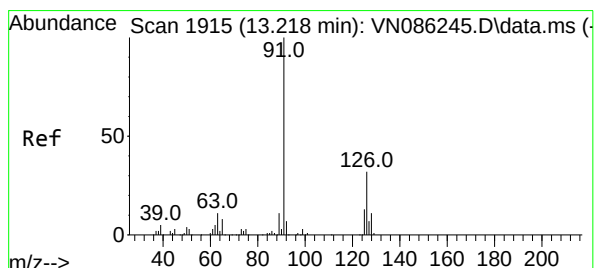
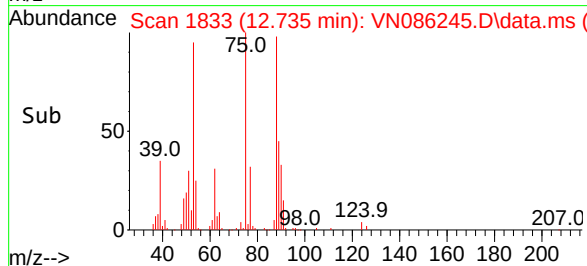
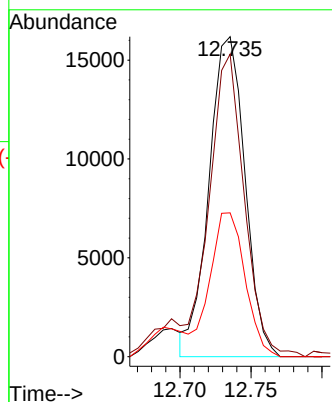
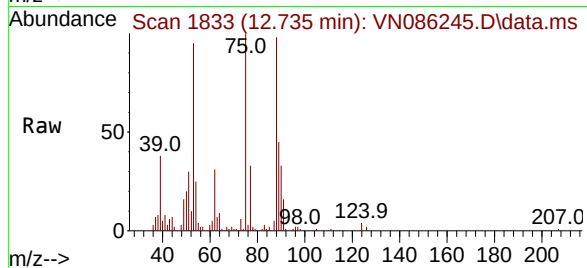
#77
t-1,4-Dichloro-2-butene
Concen: 18.993 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 75 Resp: 28529
Ion Ratio Lower Upper
75 100
53 92.8 46.4 139.2
89 45.0 22.5 67.5

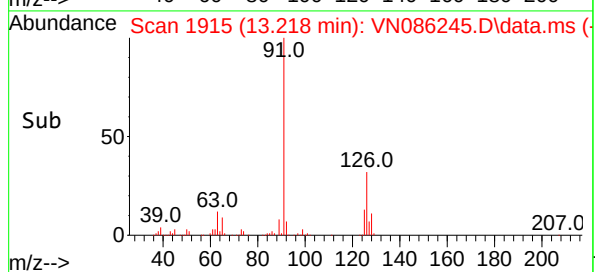
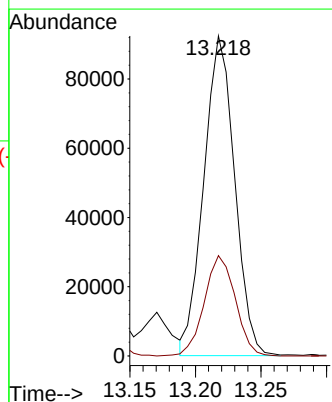
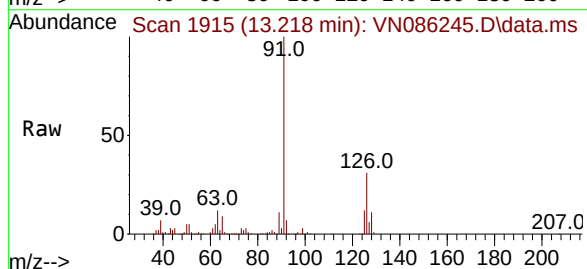
Manual Integrations
APPROVED

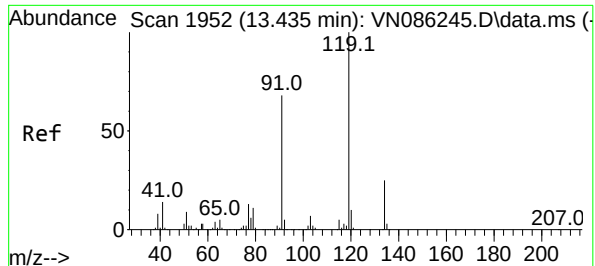
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 18.539 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 151091
Ion Ratio Lower Upper
91 100
126 31.6 0.0 63.2





#79

tert-butylbenzene

Concen: 18.865 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:119 Resp: 147428

Ion Ratio Lower Upper

119 100

91 68.3 0.0 136.6

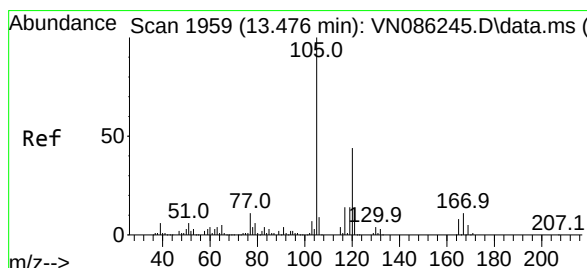
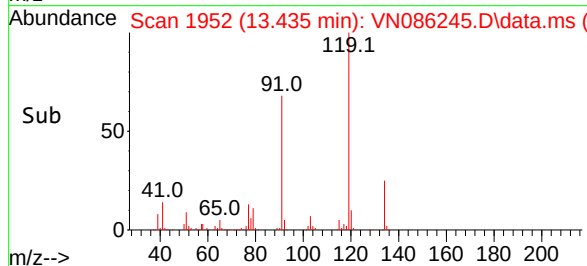
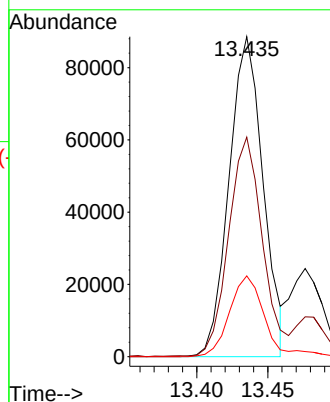
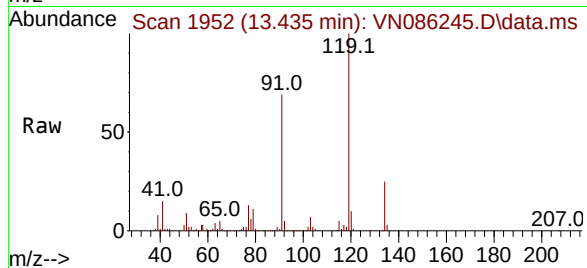
134 24.7 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 19.089 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086245.D

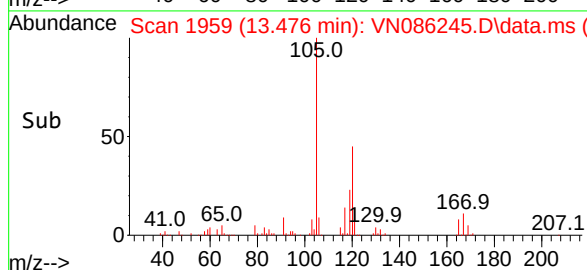
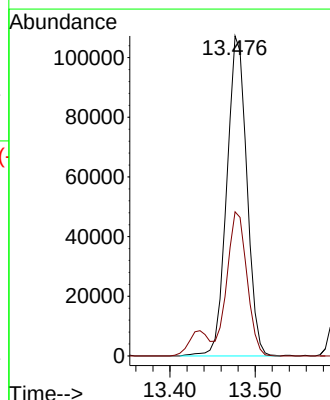
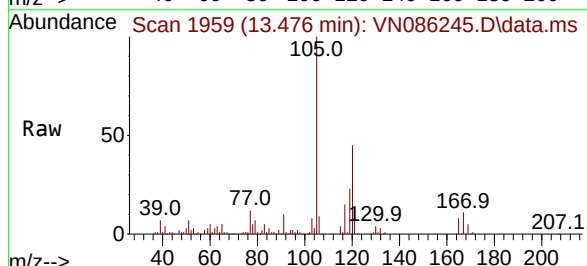
Acq: 11 Apr 2025 12:16

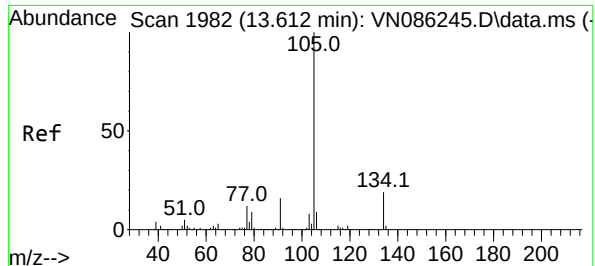
Tgt Ion:105 Resp: 174827

Ion Ratio Lower Upper

105 100

120 45.5 0.0 91.0





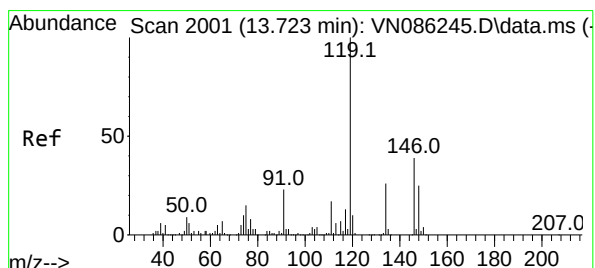
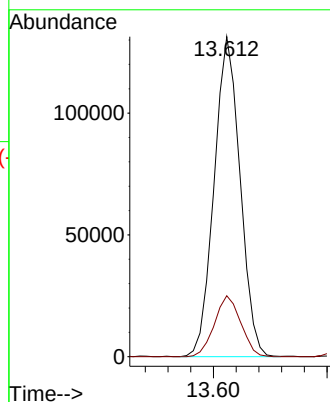
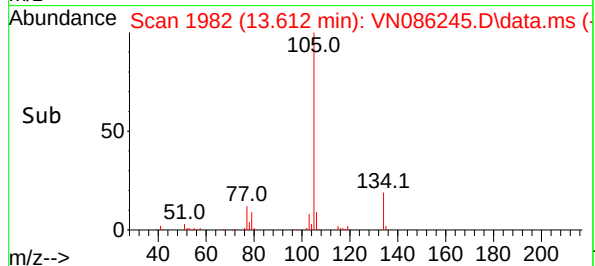
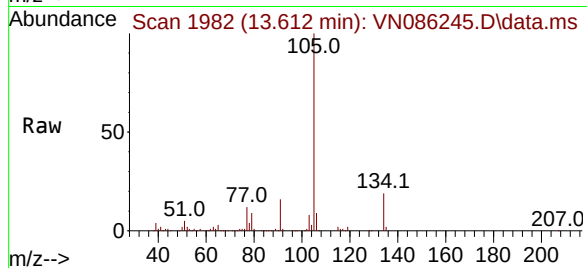
#81
sec-Butylbenzene
Concen: 19.134 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:105 Resp: 20858
Ion Ratio Lower Upper
105 100
134 19.3 0.0 38.6

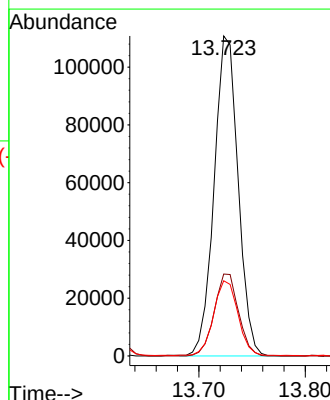
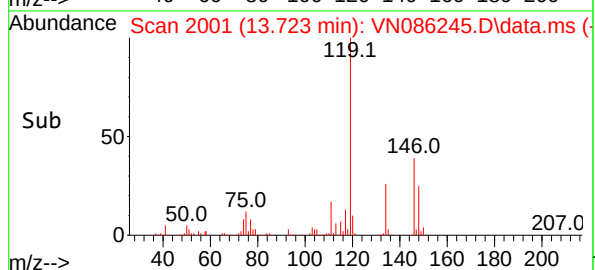
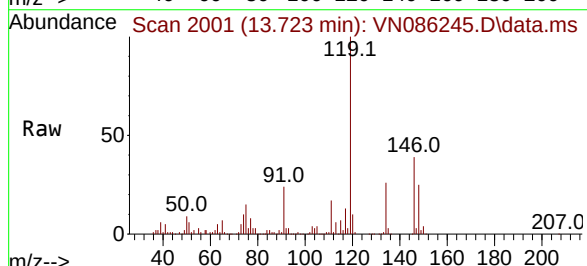
Manual Integrations
APPROVED

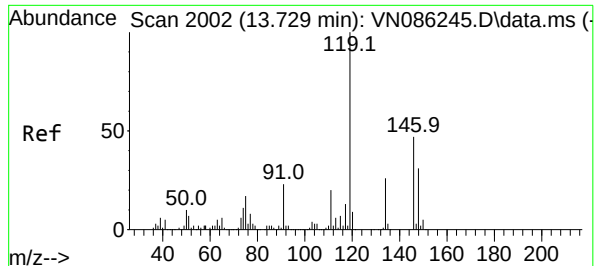
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 19.037 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:119 Resp: 173120
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 24.1 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 18.662 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 8448

Ion Ratio Lower Upper

146 100

111 43.4 21.7 65.1

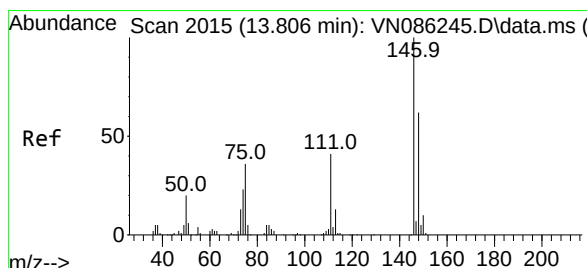
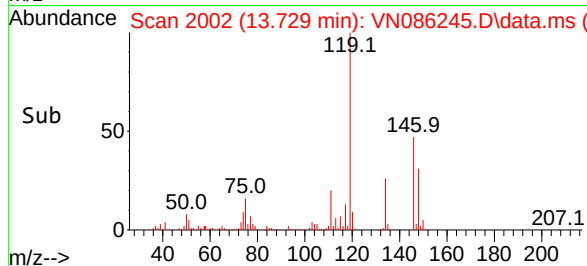
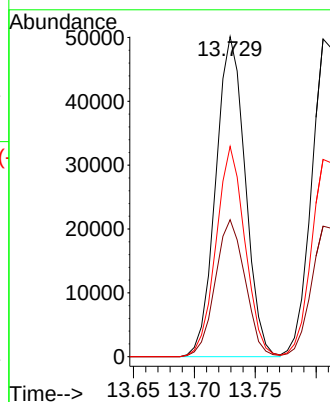
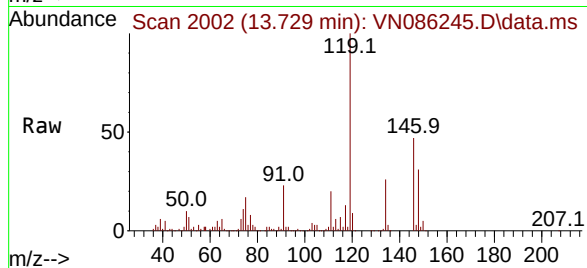
148 64.5 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 18.705 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

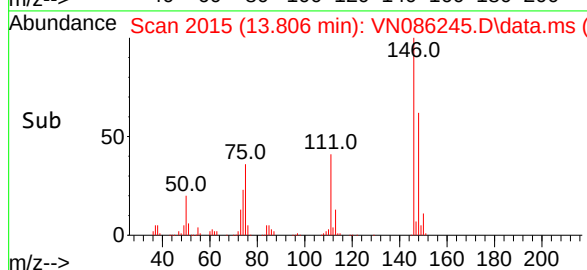
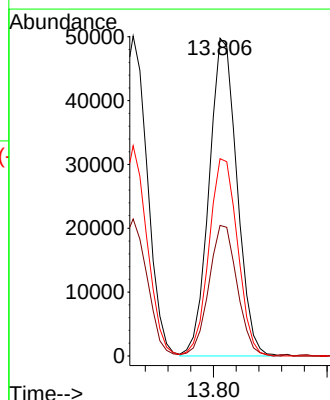
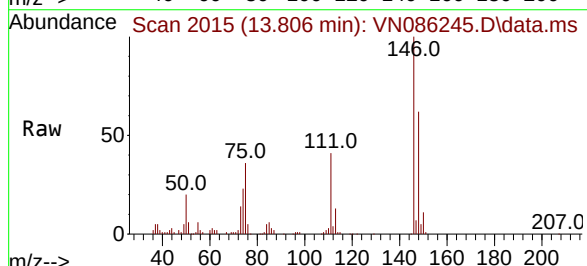
Tgt Ion:146 Resp: 84947

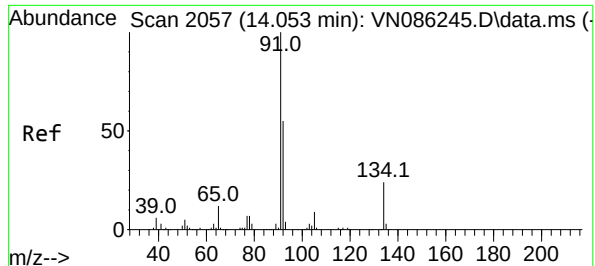
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.7 31.9 95.5





#85

n-Butylbenzene

Concen: 18.919 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

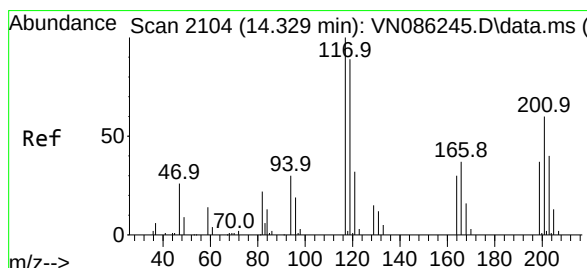
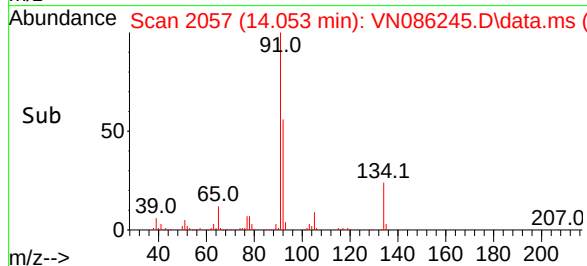
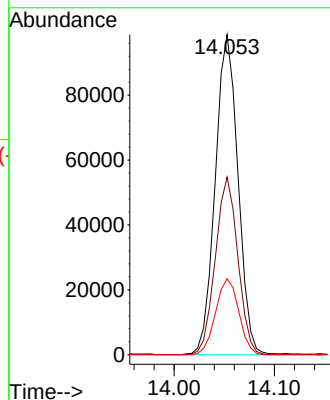
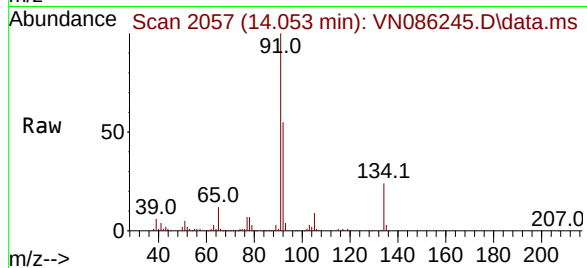
Tgt Ion:	91	Resp:	155208
Ion Ratio	Lower	Upper	
91	100		
92	54.7	0.0	109.4
134	24.1	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 18.910 ug/l

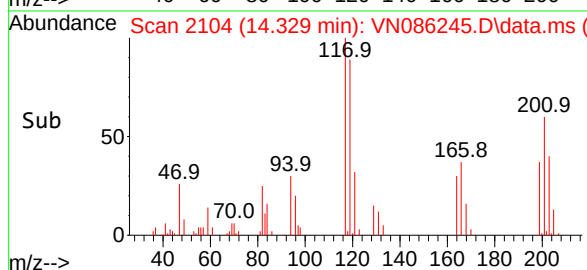
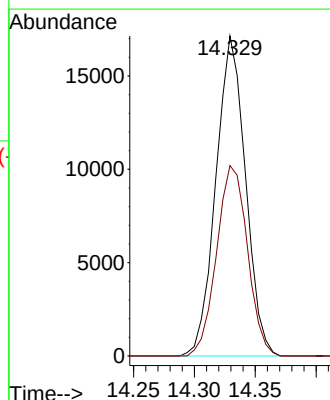
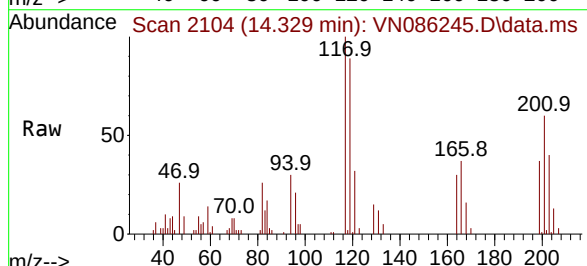
RT: 14.329 min Scan# 2104

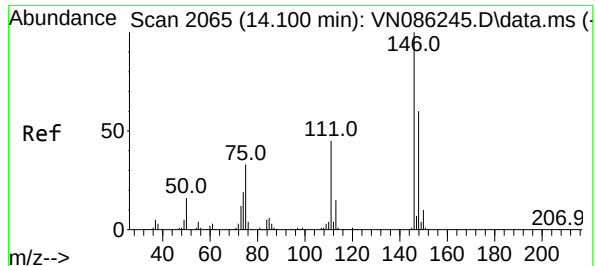
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	117	Resp:	29008
Ion Ratio	Lower	Upper	
117	100		
201	61.9	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 19.018 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

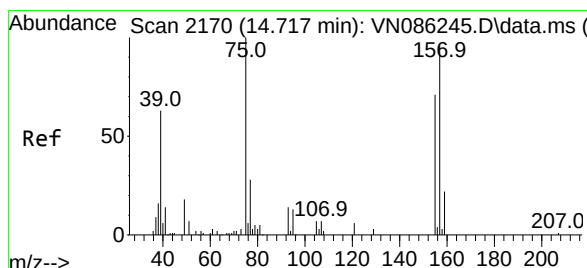
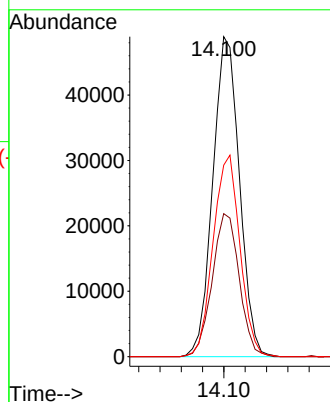
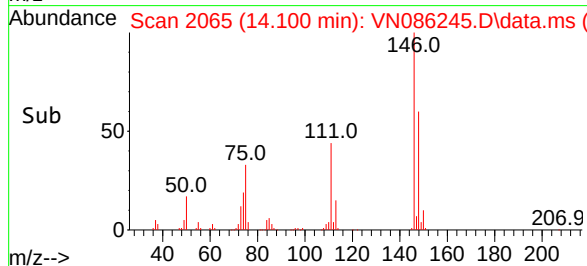
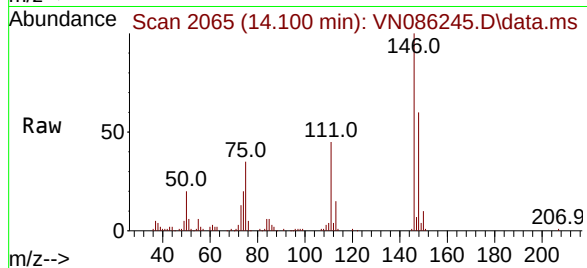
Tgt Ion:	146	Resp:	85009
Ion Ratio	Lower	Upper	
146	100		
111	45.3	22.7	68.0
148	63.5	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.684 ug/l

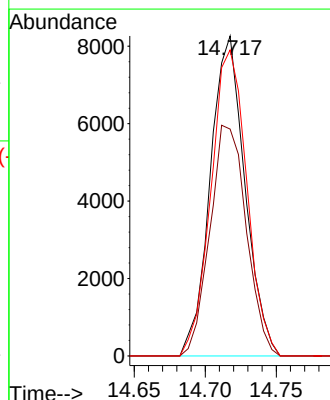
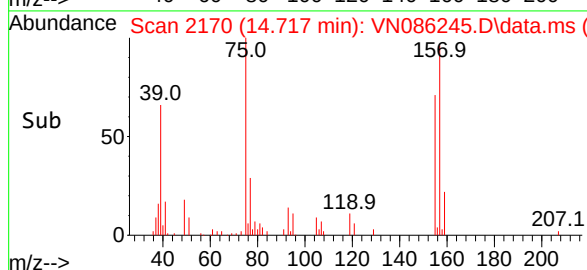
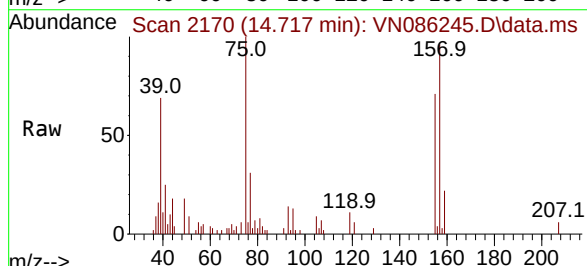
RT: 14.717 min Scan# 2170

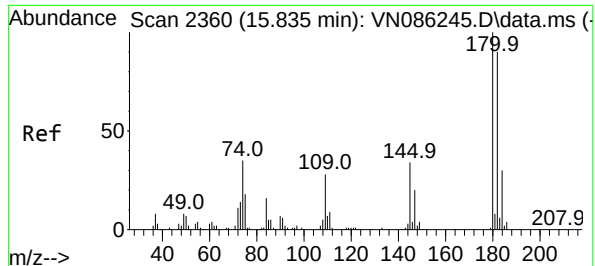
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	75	Resp:	14031
Ion Ratio	Lower	Upper	
75	100		
155	75.4	60.3	90.5
157	98.7	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 20.183 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

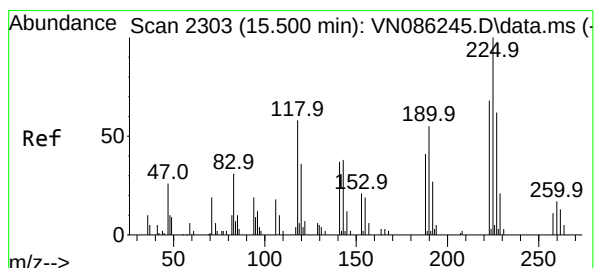
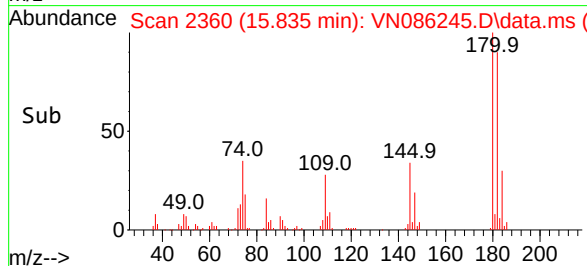
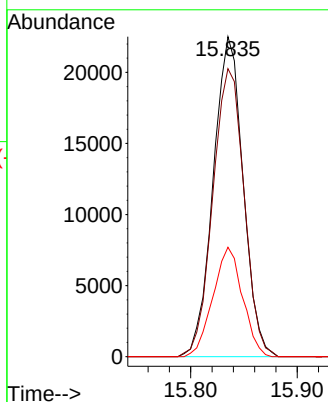
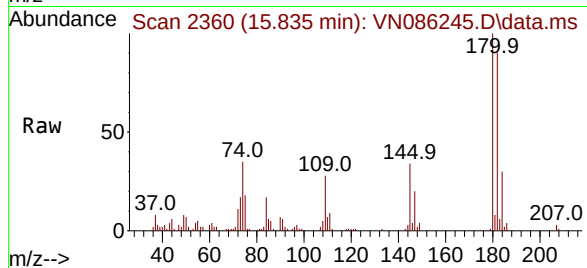
Tgt Ion:	180	Resp:	4389
Ion Ratio	Lower	Upper	
180	100		
182	93.9	75.1	112.7
145	33.9	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 19.398 ug/l

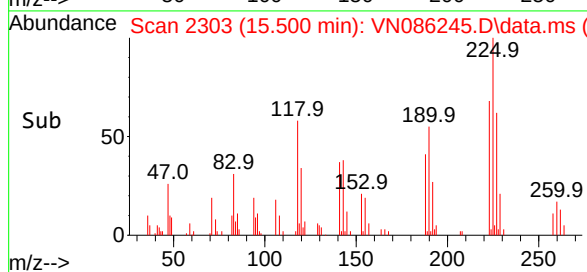
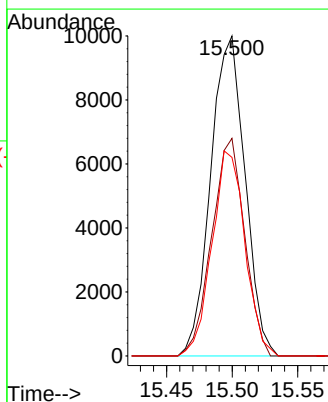
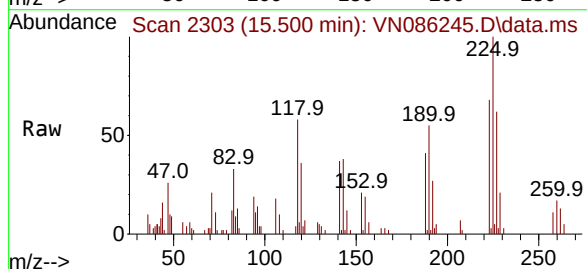
RT: 15.500 min Scan# 2303

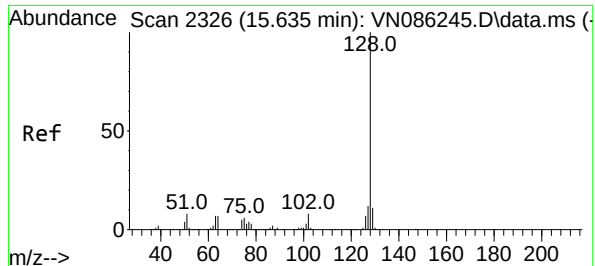
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

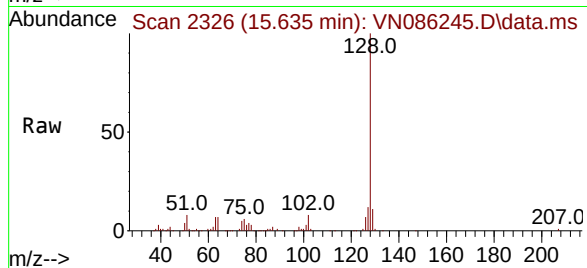
Tgt Ion:	225	Resp:	18215
Ion Ratio	Lower	Upper	
225	100		
223	65.0	0.0	130.0
227	61.6	0.0	123.2





#91
Naphthalene
Concen: 19.722 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

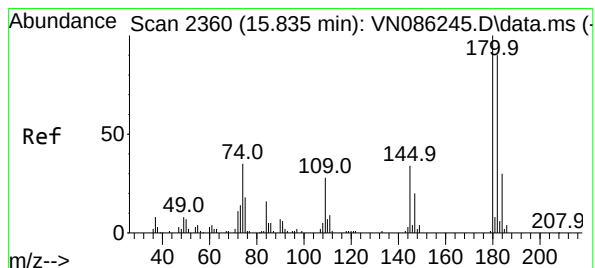
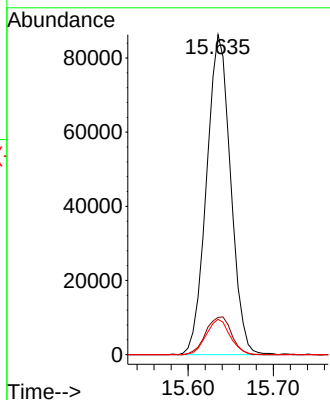
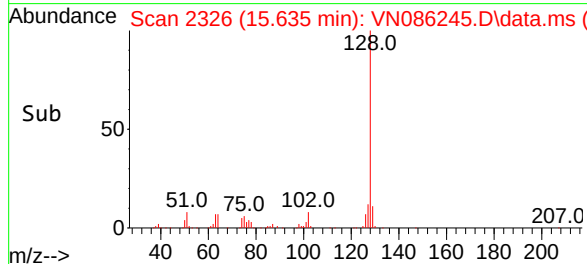
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 169118
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

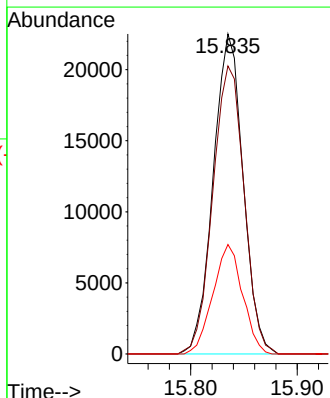
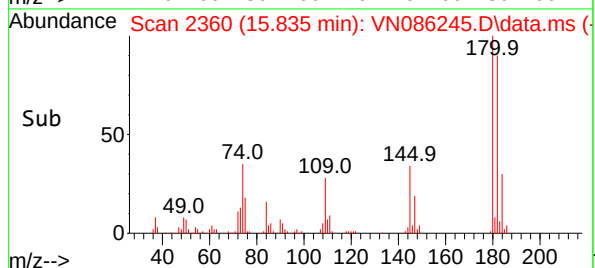
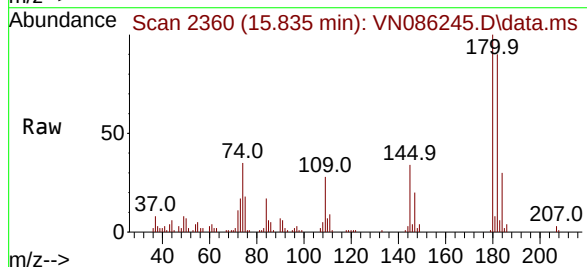
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 20.183 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:180 Resp: 43895
Ion Ratio Lower Upper
180 100
182 93.9 0.0 187.8
145 33.9 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086246.D
 Acq On : 11 Apr 2025 12:40
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:25:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	26939	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	166827	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146541	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80888	30.785	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.600%			
60) 4-Bromofluorobenzene	12.847	95	86291	29.576	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.600%			
63) Toluene-d8	10.565	98	250531	30.283	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	9304	4.311	ug/l	99
3) Chloromethane	2.359	50	15004	5.030	ug/l	94
4) Vinyl Chloride	2.512	62	13469	4.740	ug/l	100
5) Bromomethane	2.965	94	8169	5.763	ug/l	98
6) Chloroethane	3.118	64	9245	5.152	ug/l	97
7) Trichlorofluoromethane	3.501	101	14867	4.823	ug/l	99
8) Diethyl Ether	3.959	74	7307	5.140	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	9194	4.837	ug/l	92
10) 1,1-Dichloroethene	4.336	96	10856	5.292	ug/l	98
11) Methyl Iodide	4.583	142	11623m	4.930	ug/l	
12) Methyl Acetate	5.024	43	14618	5.046	ug/l	97
13) Acrolein	4.177	56	10809	32.827	ug/l	99
14) Acrylonitrile	5.718	53	31353	25.638	ug/l	98
15) Acetone	4.436	58	8149	26.259	ug/l	77
16) Carbon Disulfide	4.712	76	32171	5.469	ug/l	100
17) Allyl chloride	5.024	41	18652	5.217	ug/l	96
18) Methylene Chloride	5.283	84	12832	5.487	ug/l	85
19) trans-1,2-Dichloroethene	5.777	96	11746m	6.348	ug/l	
20) Diisopropyl ether	6.671	45	37420	4.868	ug/l	96
21) 1,1-Dichloroethane	6.571	63	20024	4.883	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	13471	5.234	ug/l	95
23) tert-Butyl Alcohol	5.518	59	12793	25.247	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	38035m	5.147	ug/l	
25) Chloroform	7.959	83	19640	5.022	ug/l	93
26) Cyclohexane	8.253	56	19181	4.999	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	14353	4.803	ug/l	97
30) 2-Butanone	7.483	43	39891	24.089	ug/l	99
31) 2,2-Dichloropropane	7.483	77	17332	4.711	ug/l #	84
32) 1,1,1-Trichloroethane	8.165	97	17271	5.024	ug/l	98
33) Carbon Tetrachloride	8.365	117	12727	4.633	ug/l	95
34) Benzene	8.606	78	46065	4.845	ug/l #	88
35) Methacrylonitrile	7.777	41	9403	5.037	ug/l	96
36) 1,2-Dichloroethane	8.671	62	14350	4.823	ug/l #	87
37) Trichloroethene	9.353	130	10774	4.697	ug/l	97
38) Methylcyclohexane	9.600	83	18064	4.929	ug/l	97
39) 1,2-Dichloropropane	9.618	63	11201	4.735	ug/l	94
40) Dibromomethane	9.706	93	7704	5.042	ug/l	95
41) Bromodichloromethane	9.882	83	16772	5.109	ug/l	100
42) Vinyl Acetate	6.600	43	138739	24.613	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086246.D
 Acq On : 11 Apr 2025 12:40
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:25:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

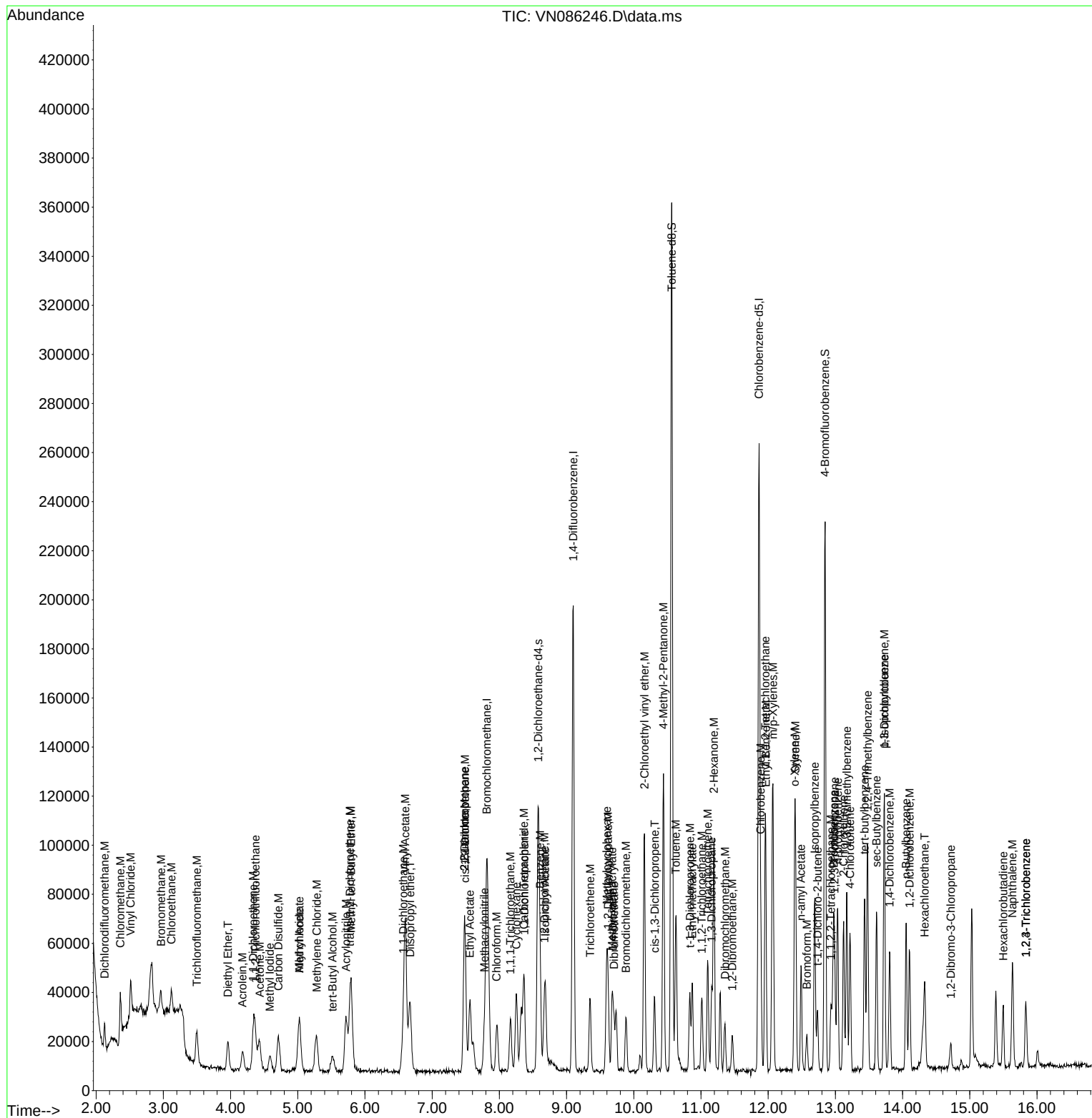
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	16850	5.045	ug/l #	79
44) Isopropyl Acetate	8.683	43	33849	5.463	ug/l	95
45) 1,4-Dioxane	9.688	88	4828	97.983	ug/l #	86
46) Methyl methacrylate	9.677	41	12994	4.759	ug/l	95
47) n-amyl Acetate	12.488	43	24334	4.860	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	17815	4.801	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	18616	4.740	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	10709	4.997	ug/l	96
51) Ethyl methacrylate	10.871	69	19475	4.890	ug/l	91
52) 1,3-Dichloropropane	11.159	76	18666	4.887	ug/l	95
53) Dibromochloromethane	11.359	129	11282	4.813	ug/l	100
54) 1,2-Dibromoethane	11.465	107	10742	4.965	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	44228	29.389	ug/l	99
56) Bromoform	12.576	173	7367	4.804	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	81510	24.511	ug/l	99
59) 2-Hexanone	11.194	43	60580	24.465	ug/l	99
61) Tetrachloroethene	11.100	164	10135	4.683	ug/l	96
62) Toluene	10.624	91	48384	4.923	ug/l	99
64) Chlorobenzene	11.888	112	29905	4.980	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	9602	4.845	ug/l	96
66) Ethyl Benzene	11.965	91	53539	4.912	ug/l	98
67) m/p-Xylenes	12.071	106	38897	9.597	ug/l	97
68) o-Xylene	12.394	106	19223	4.822	ug/l	98
69) Styrene	12.406	104	32582	4.846	ug/l	100
70) Isopropylbenzene	12.694	105	47563	4.839	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15293	5.466	ug/l	93
72) 1,2,3-Trichloropropane	12.988	75	14811m	3.739	ug/l	
73) Bromobenzene	12.976	156	10521	4.831	ug/l	96
74) n-propylbenzene	13.035	91	55104	4.734	ug/l	100
75) 2-Chlorotoluene	13.123	91	35960	4.929	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	38762	4.800	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	6507	4.845	ug/l	94
78) 4-Chlorotoluene	13.218	91	35898	4.927	ug/l	98
79) tert-butylbenzene	13.435	119	35578	5.092	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	38730	4.730	ug/l	99
81) sec-Butylbenzene	13.612	105	46761	4.798	ug/l	100
82) p-Isopropyltoluene	13.729	119	38146	4.692	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	19501	4.818	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	19847	4.888	ug/l	99
85) n-Butylbenzene	14.053	91	34592	4.716	ug/l	99
86) Hexachloroethane	14.329	117	6465	4.714	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	19316	4.834	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	3152	4.946	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	9291	4.778	ug/l	95
90) Hexachlorobutadiene	15.500	225	4734	5.639	ug/l	96
91) Naphthalene	15.635	128	38531	5.026	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	9291	4.778	ug/l	95

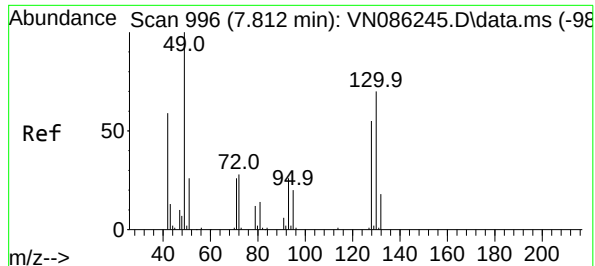
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

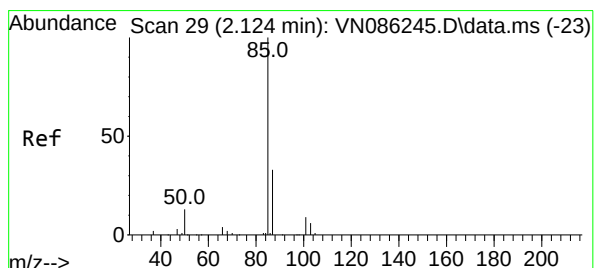
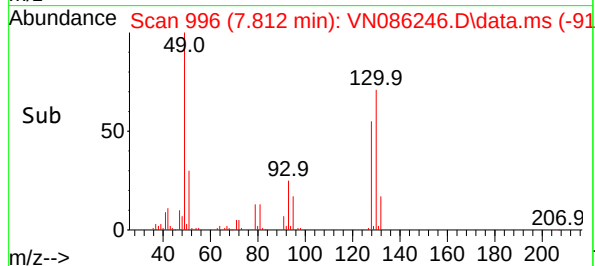
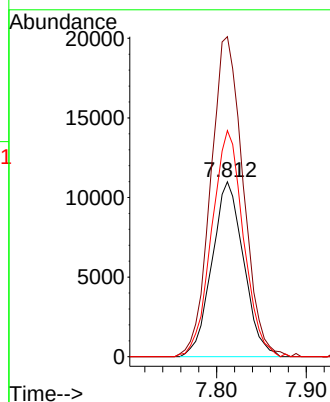
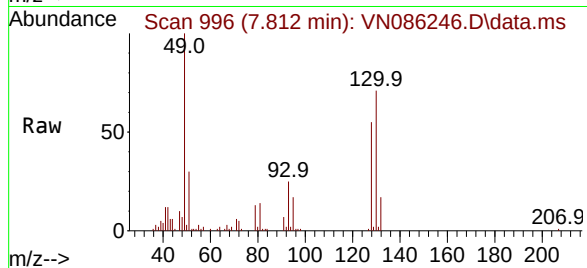
Tgt Ion:	128	Resp:	26939
Ion	Ratio	Lower	Upper
128	100		
49	187.2	0.0	452.5
130	129.7	0.0	315.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#2

Dichlorodifluoromethane

Concen: 4.311 ug/l

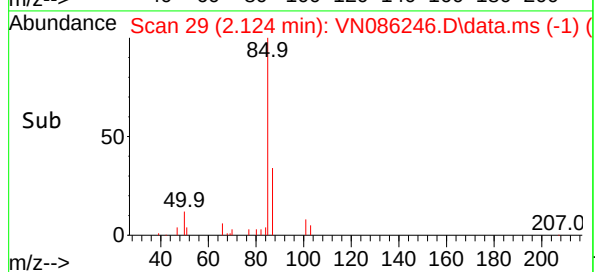
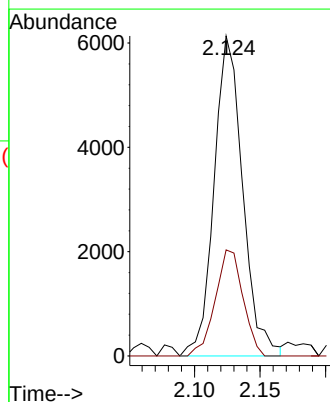
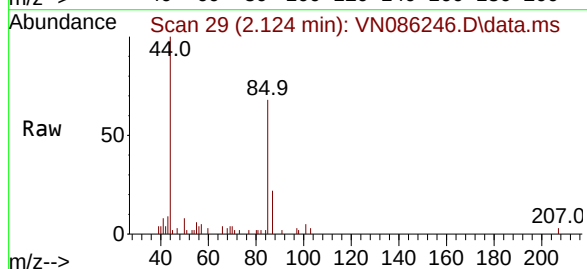
RT: 2.124 min Scan# 29

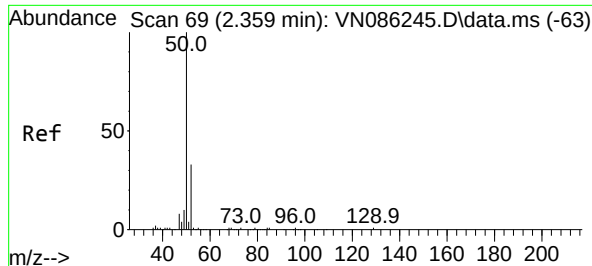
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	85	Resp:	9304
Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.3	48.9





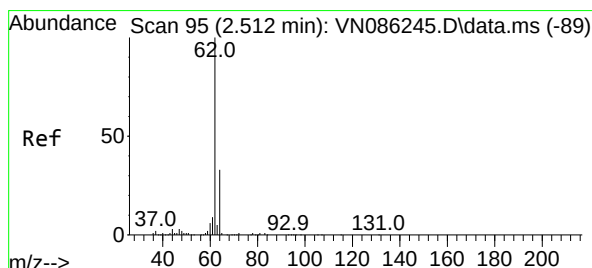
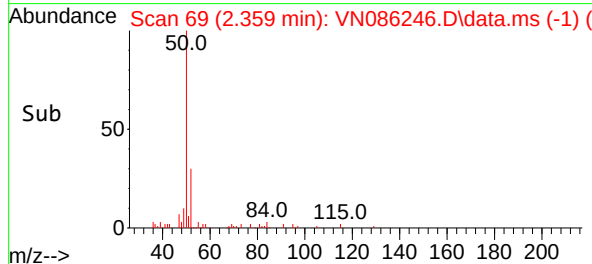
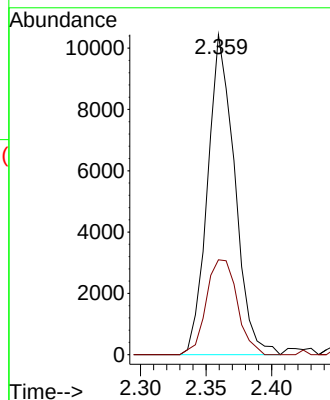
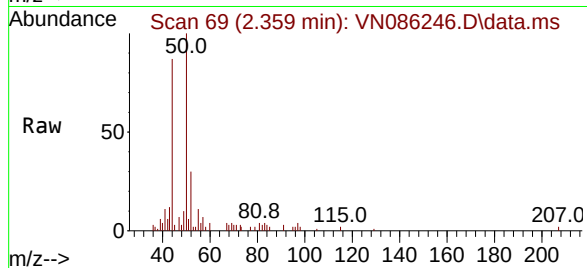
#3
Chloromethane
Concen: 5.030 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 15004
Ion Ratio Lower Upper
50 100
52 29.7 26.4 39.6

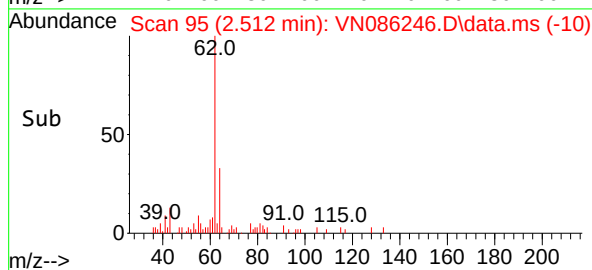
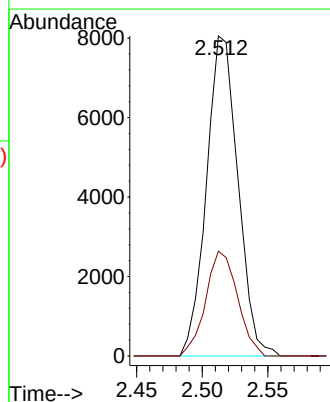
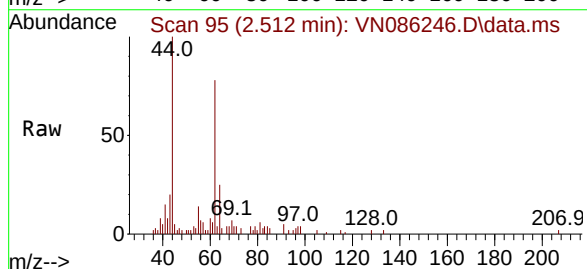
Manual Integrations
APPROVED

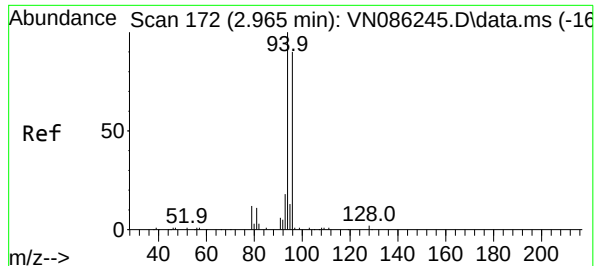
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 4.740 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 62 Resp: 13469
Ion Ratio Lower Upper
62 100
64 32.8 26.3 39.5





#5

Bromomethane

Concen: 5.763 ug/l

RT: 2.965 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 816

Ion Ratio Lower Upper

94 100

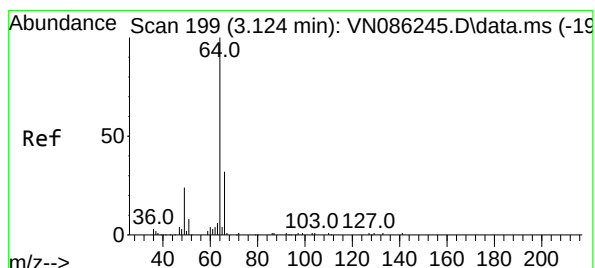
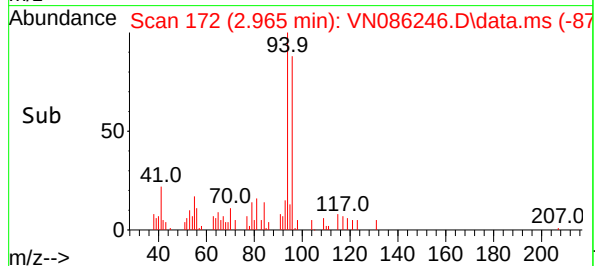
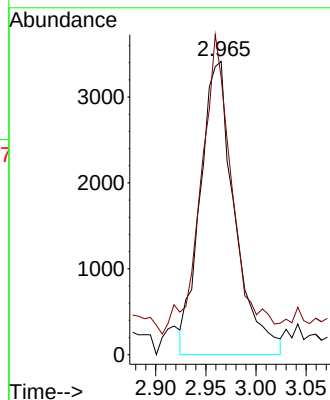
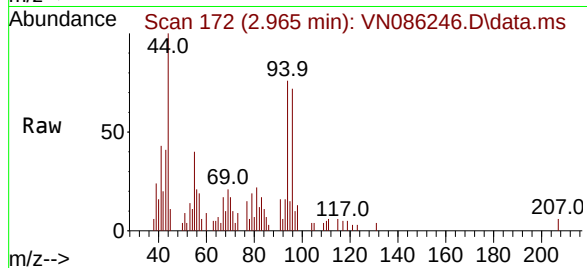
96 88.5 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 5.152 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN086246.D

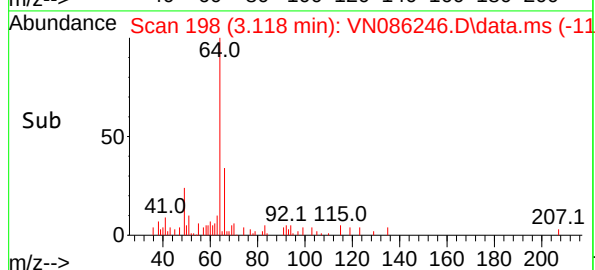
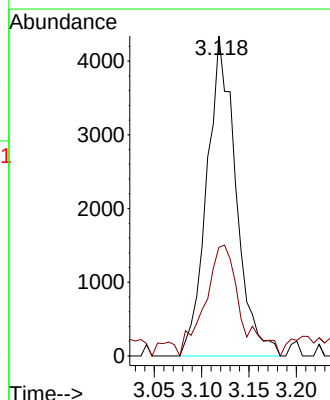
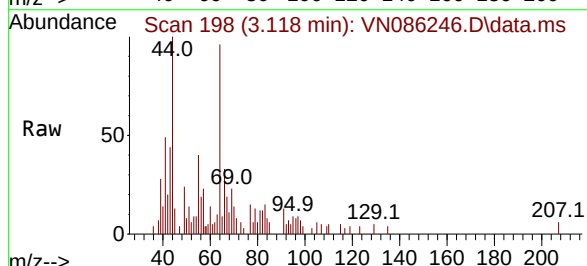
Acq: 11 Apr 2025 12:40

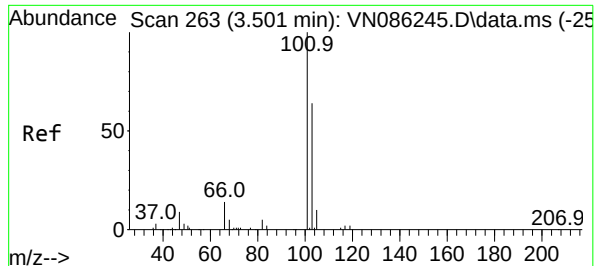
Tgt Ion: 64 Resp: 9245

Ion Ratio Lower Upper

64 100

66 34.0 25.7 38.5





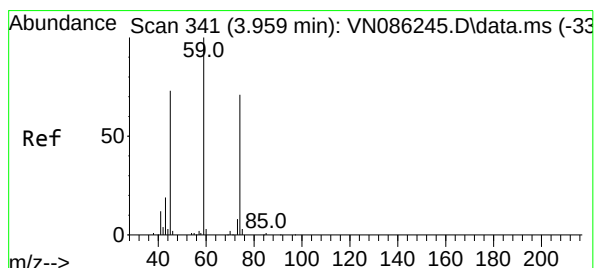
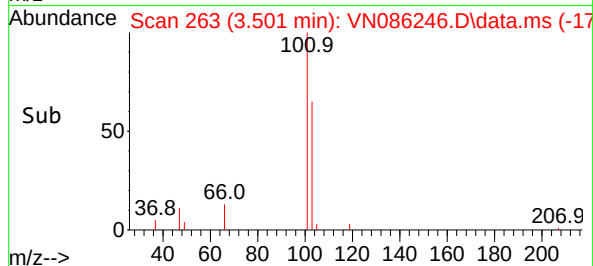
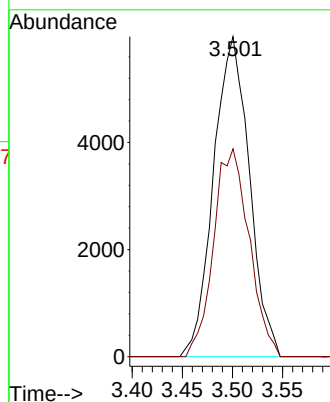
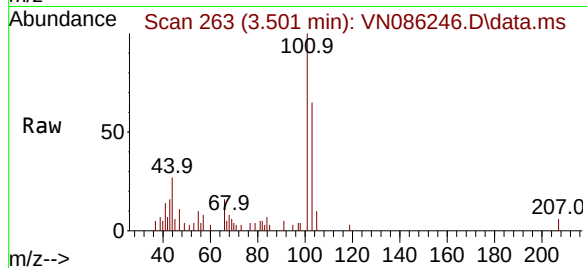
#7
Trichlorofluoromethane
Concen: 4.823 ug/l
RT: 3.501 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 1486
Ion Ratio Lower Upper
101 100
103 65.0 51.2 76.8

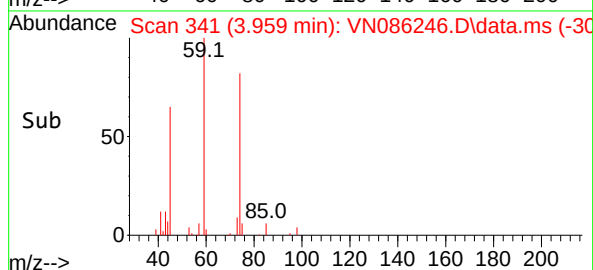
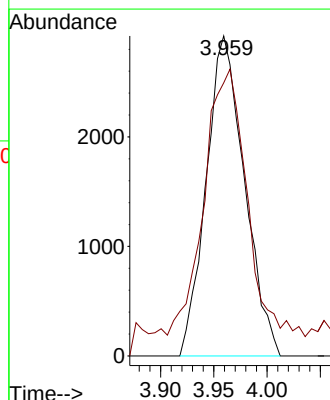
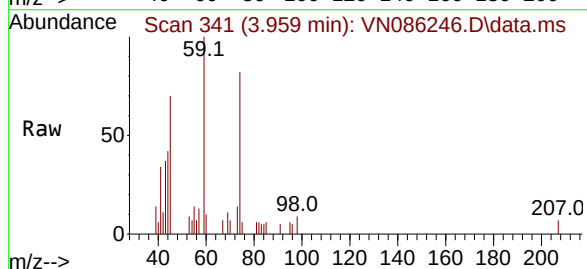
Manual Integrations
APPROVED

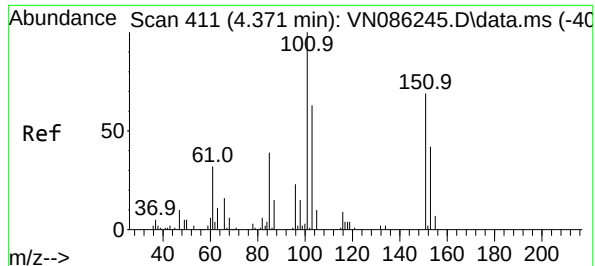
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 5.140 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 74 Resp: 7307
Ion Ratio Lower Upper
74 100
45 92.1 19.2 173.2





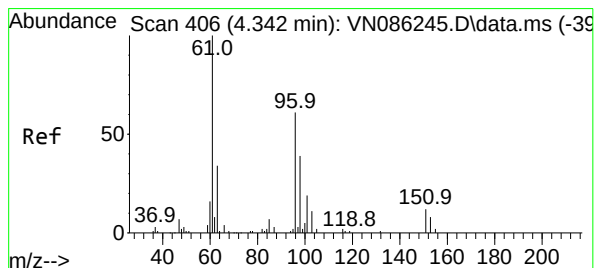
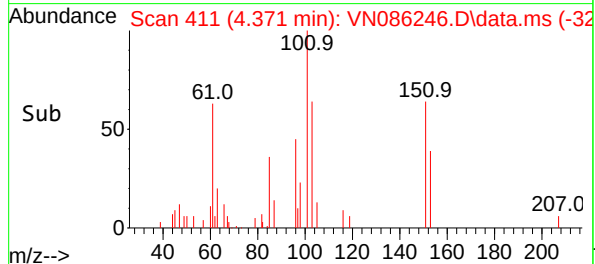
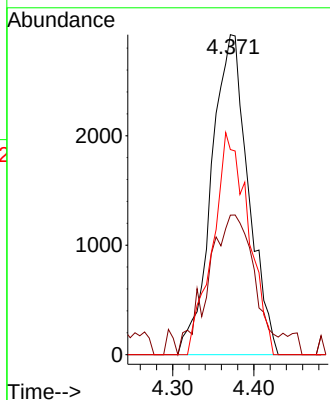
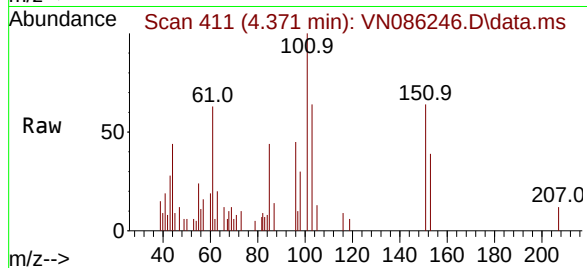
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.837 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 9194
Ion Ratio Lower Upper
101 100
85 35.1 0.0 93.0
151 67.5 0.0 138.6

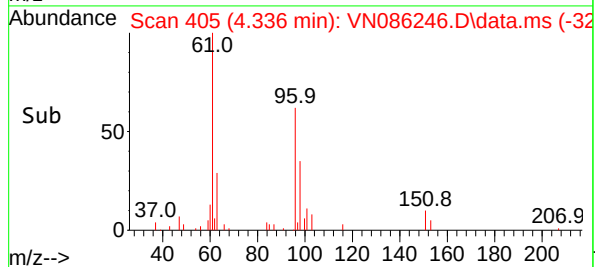
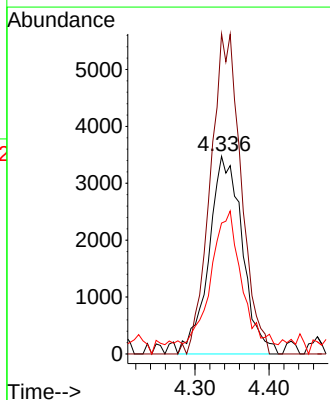
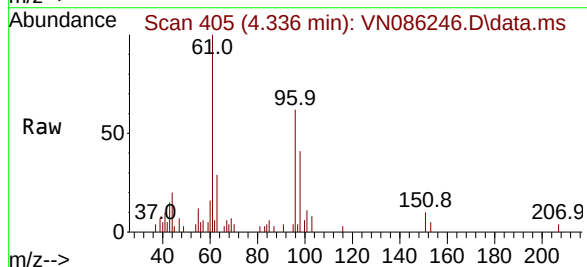
Manual Integrations
APPROVED

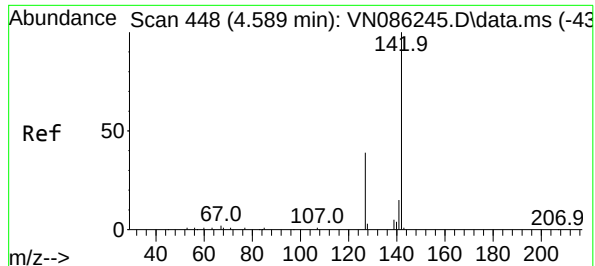
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 5.292 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 96 Resp: 10856
Ion Ratio Lower Upper
96 100
61 161.9 131.1 196.7
98 61.6 51.6 77.4





#11

Methyl Iodide

Concen: 4.930 ug/l m

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

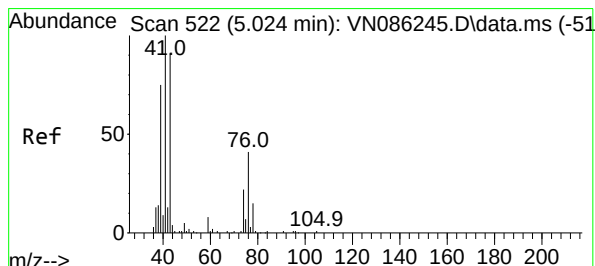
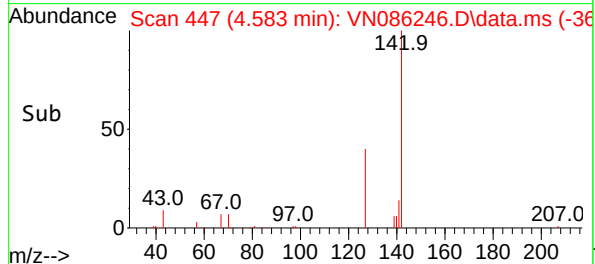
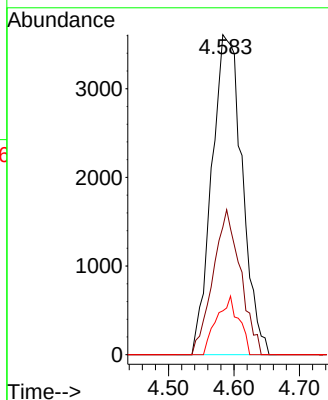
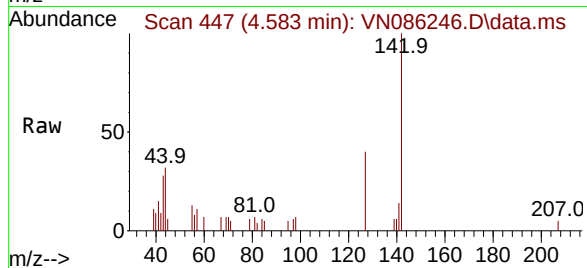
Tgt Ion:	142	Resp:	1162
Ion	Ratio	Lower	Upper
142	100		
127	39.8	19.6	58.8
141	13.7	7.3	21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 5.046 ug/l

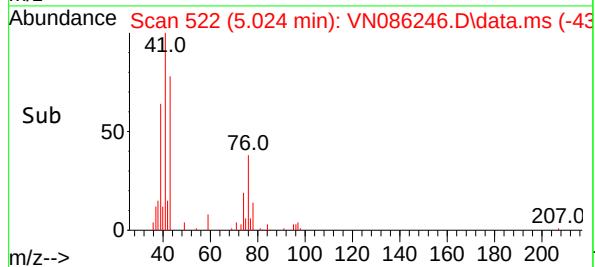
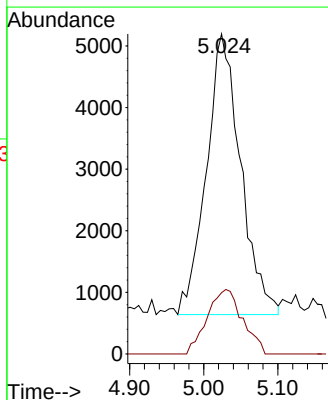
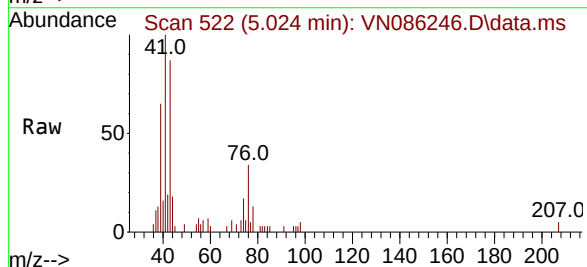
RT: 5.024 min Scan# 522

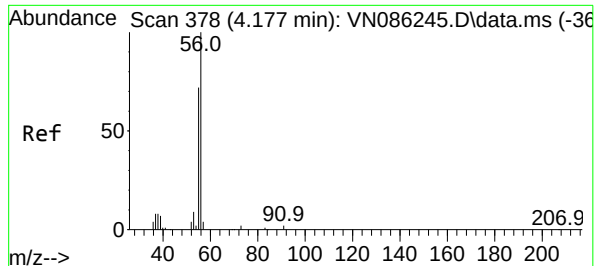
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	43	Resp:	14618
Ion	Ratio	Lower	Upper
43	100		
74	22.2	19.1	28.7





#13

Acrolein

Concen: 32.827 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 10809

Ion Ratio Lower Upper

56 100

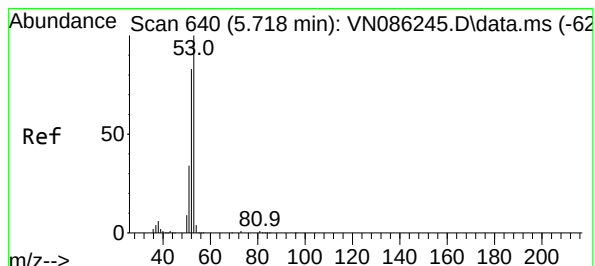
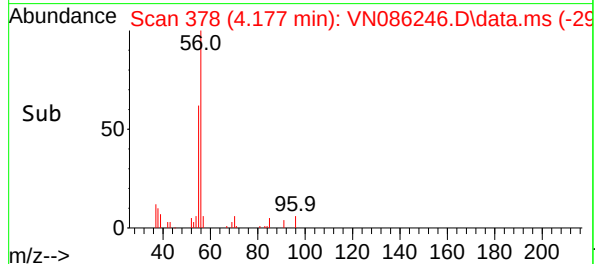
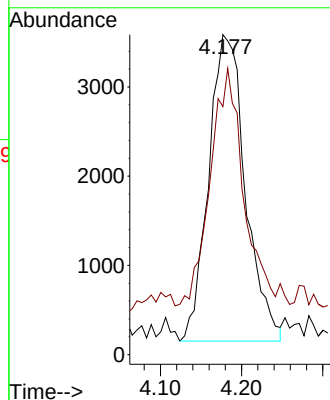
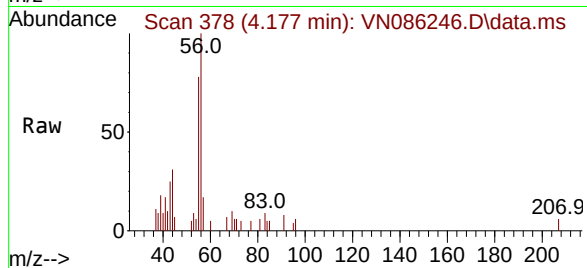
55 69.7 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 25.638 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

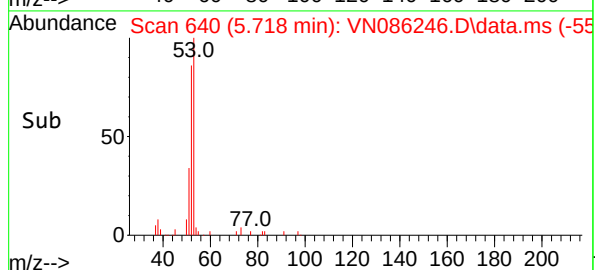
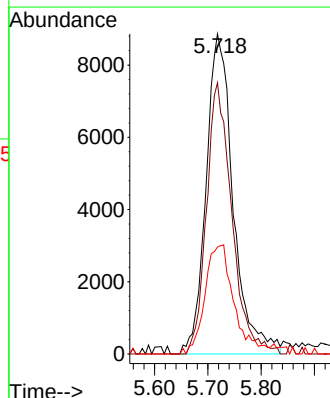
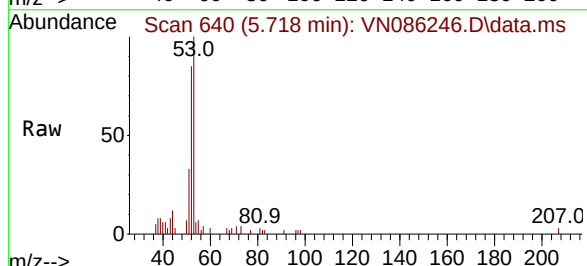
Tgt Ion: 53 Resp: 31353

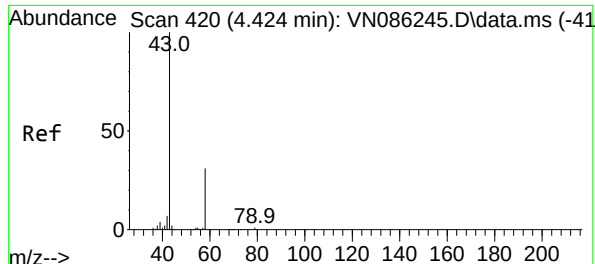
Ion Ratio Lower Upper

53 100

52 78.8 40.2 120.6

51 33.7 17.5 52.6





#15

Acetone

Concen: 26.259 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 58 Resp: 8149

Ion Ratio Lower Upper

58 100

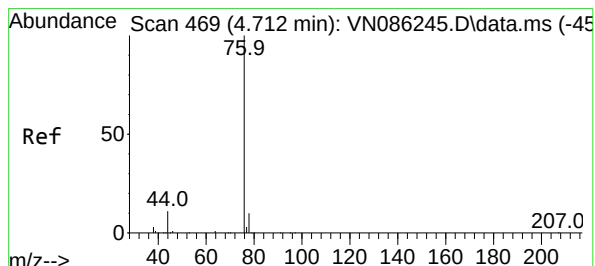
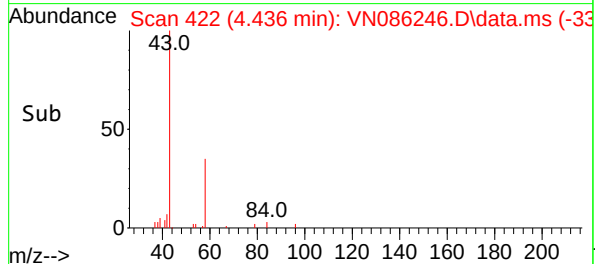
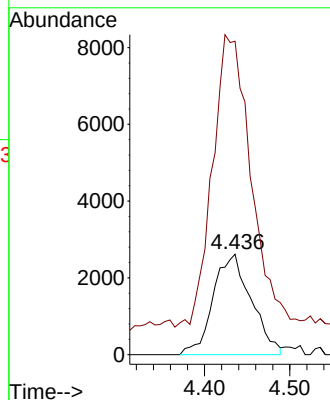
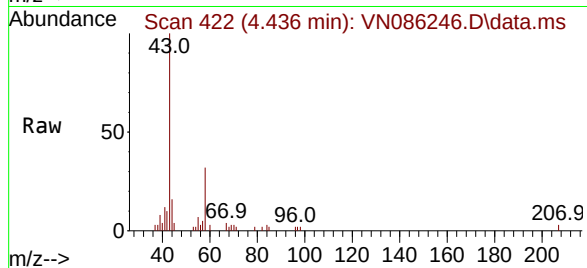
43 280.1 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 5.469 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086246.D

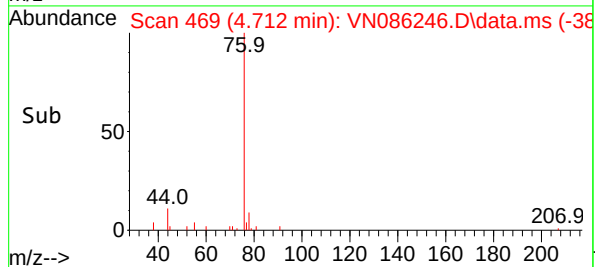
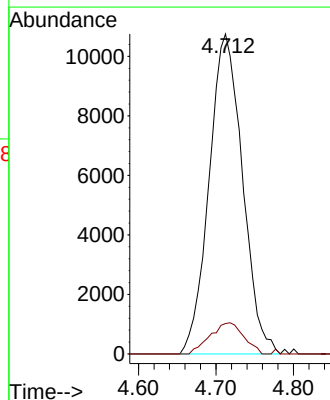
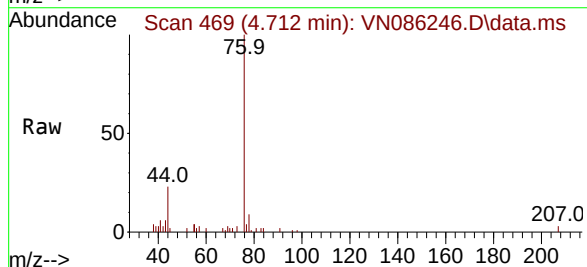
Acq: 11 Apr 2025 12:40

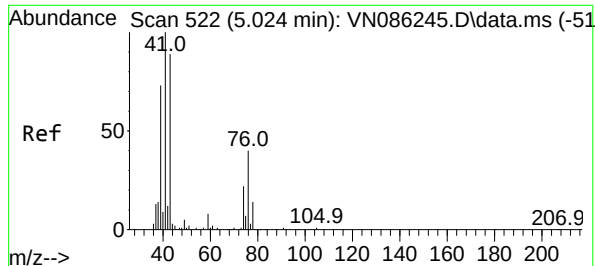
Tgt Ion: 76 Resp: 32171

Ion Ratio Lower Upper

76 100

78 9.5 7.7 11.5





#17

Allyl chloride

Concen: 5.217 ug/l

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

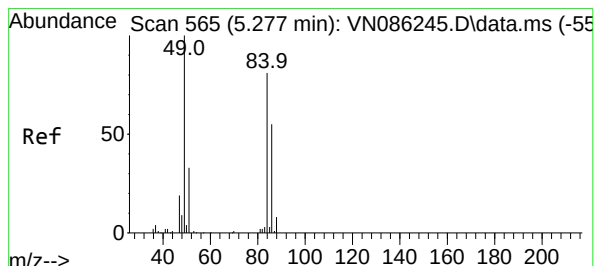
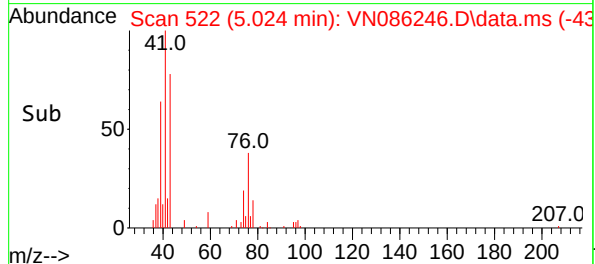
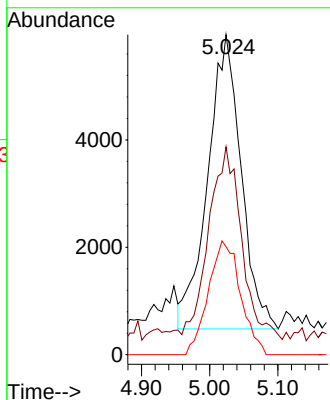
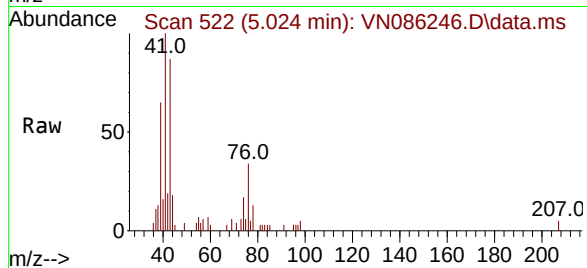
Tgt Ion:	41	Resp:	1865
Ion Ratio	Lower	Upper	
41	100		
39	63.8	34.4	103.2
76	36.7	18.8	56.3

Manual Integrations

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Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 5.487 ug/l

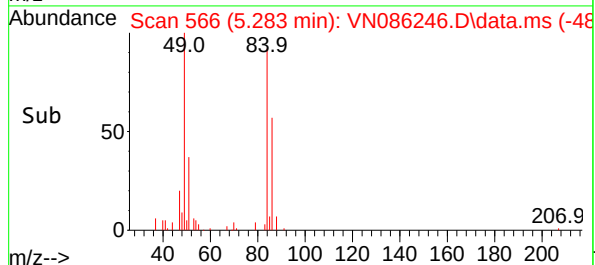
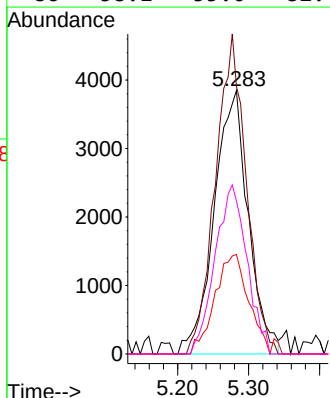
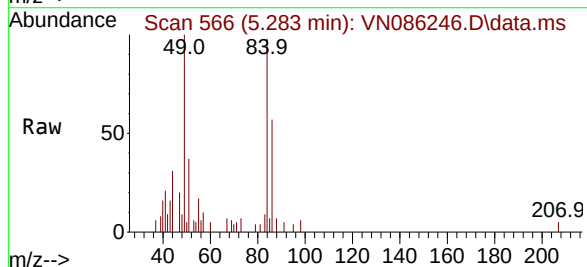
RT: 5.283 min Scan# 566

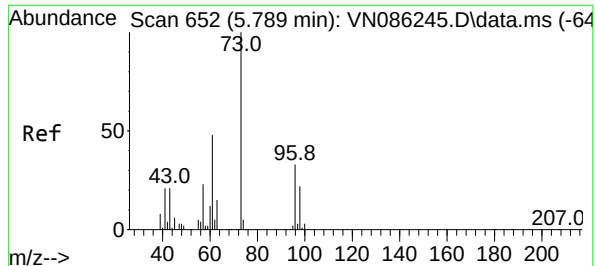
Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	84	Resp:	12832
Ion Ratio	Lower	Upper	
84	100		
49	101.6	99.1	148.7
51	37.8	32.3	48.5
86	58.1	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 6.348 ug/l m

RT: 5.777 min Scan# 61

Delta R.T. -0.012 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 11740

Ion Ratio Lower Upper

96 100

61 125.3 115.9 173.9

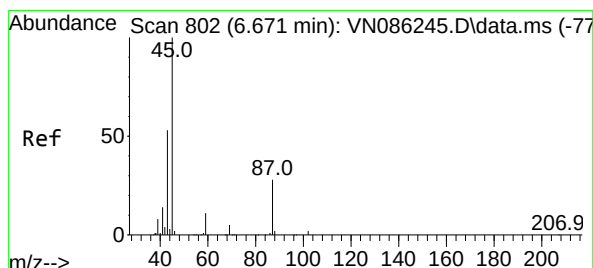
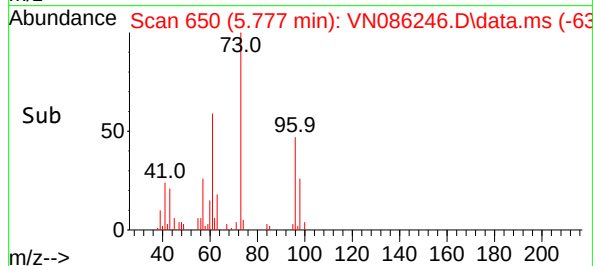
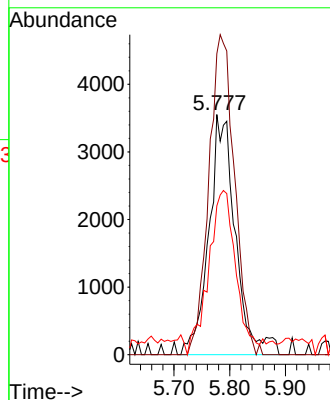
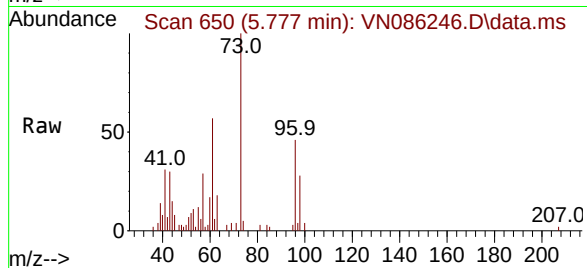
98 61.9 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 4.868 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion: 45 Resp: 37420

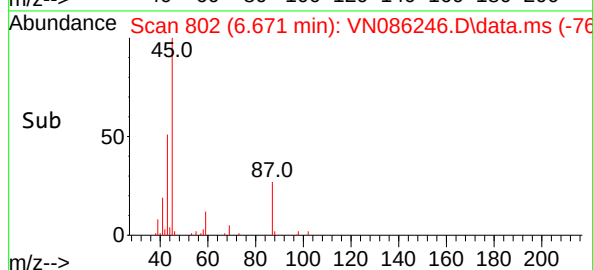
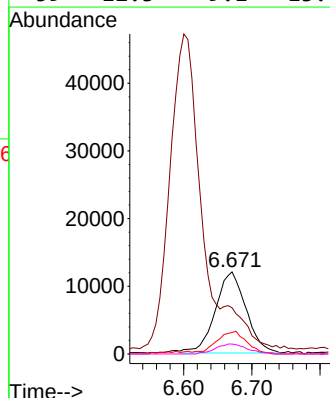
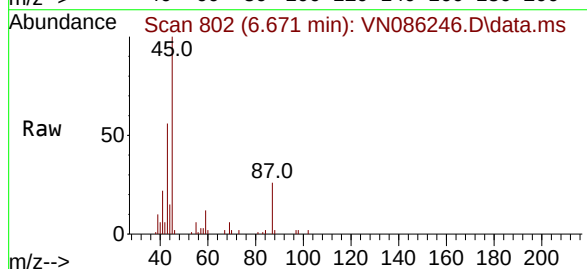
Ion Ratio Lower Upper

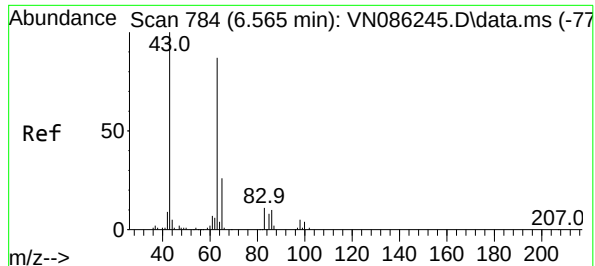
45 100

43 49.8 42.3 63.5

87 26.5 22.2 33.4

59 12.3 9.1 13.7





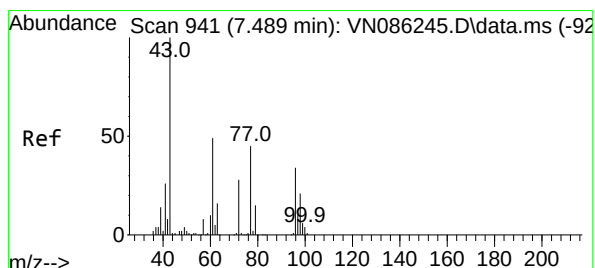
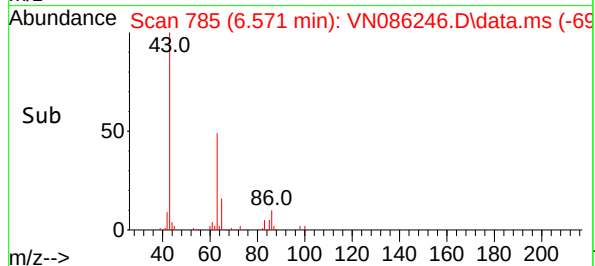
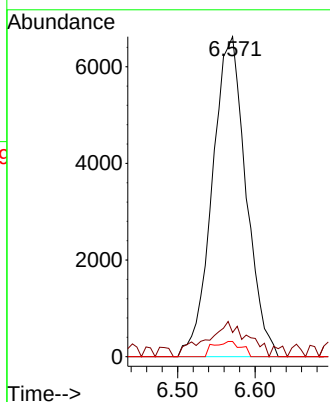
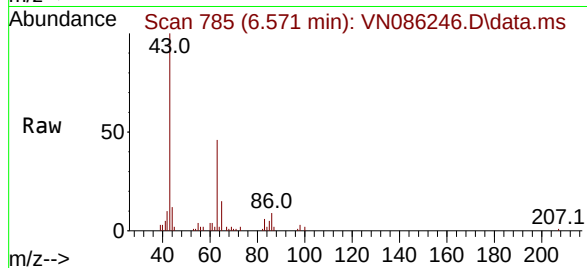
#21
1,1-Dichloroethane
Concen: 4.883 ug/l
RT: 6.571 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.1	9.3
100	4.7	2.3	6.9

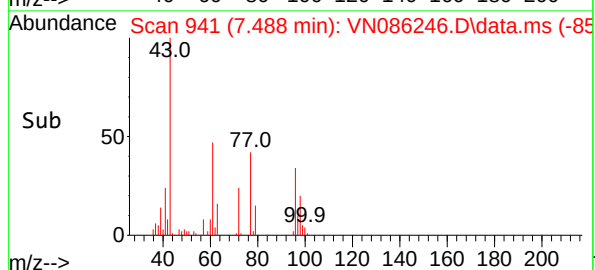
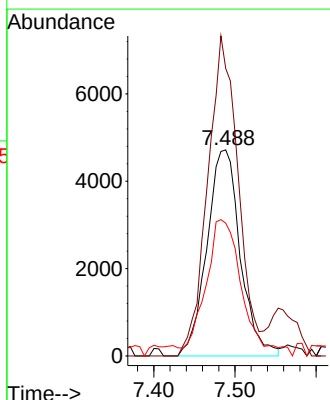
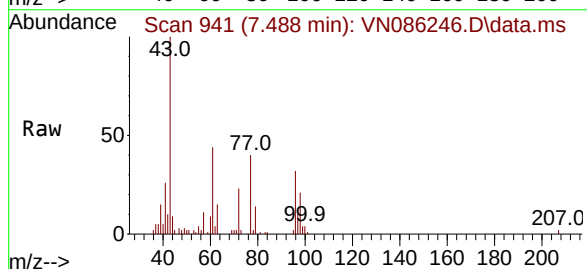
Manual Integrations
APPROVED

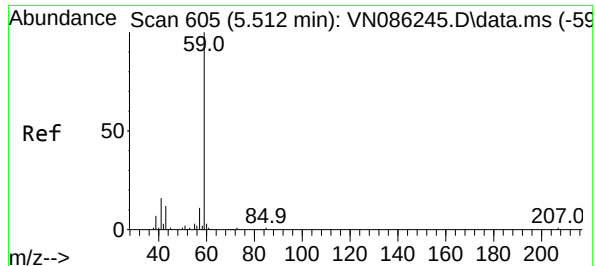
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 5.234 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.2	119.5	179.3
98	61.3	51.0	76.6





#23

tert-Butyl Alcohol

Concen: 25.247 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 59 Resp: 1279

Ion Ratio Lower Upper

59 100

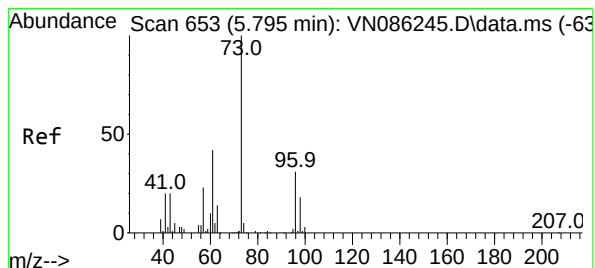
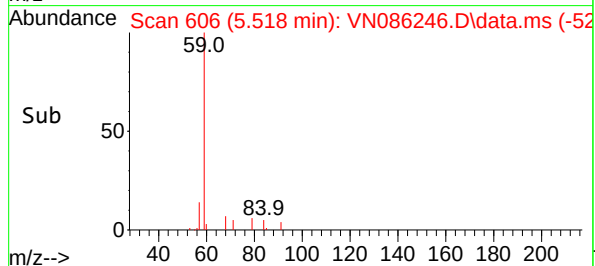
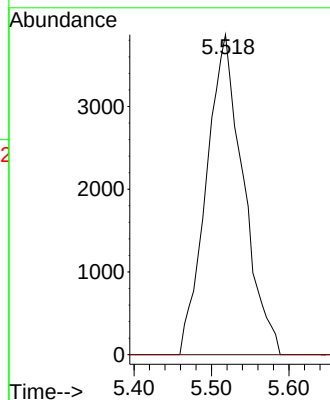
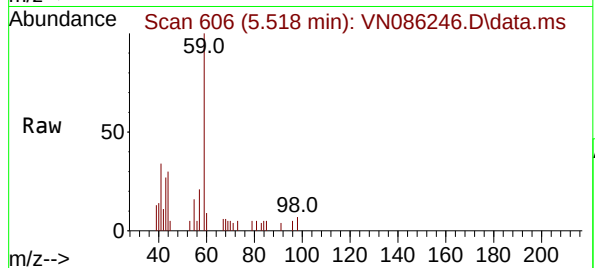
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#24

Methyl tert-Butyl Ether

Concen: 5.147 ug/l m

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN086246.D

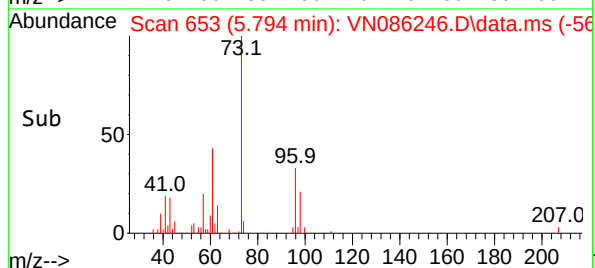
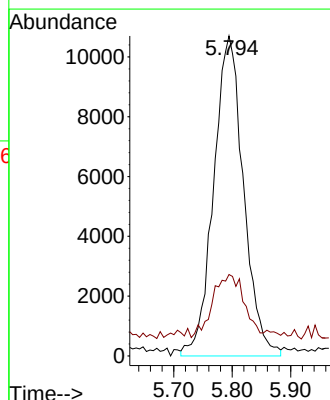
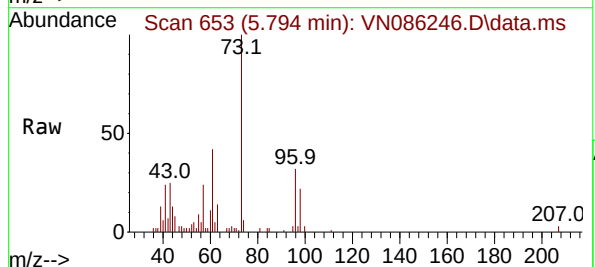
Acq: 11 Apr 2025 12:40

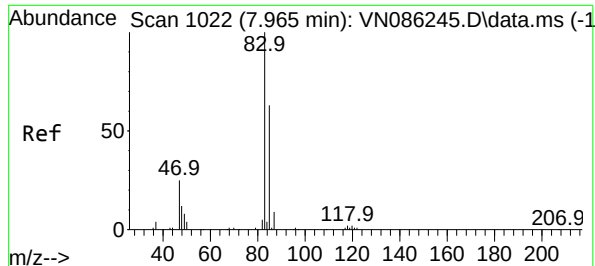
Tgt Ion: 73 Resp: 38035

Ion Ratio Lower Upper

73 100

43 0.1 16.8 25.2#





#25

Chloroform

Concen: 5.022 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 83 Resp: 19640

Ion Ratio Lower Upper

83 100

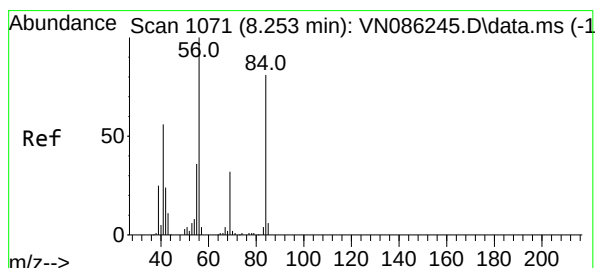
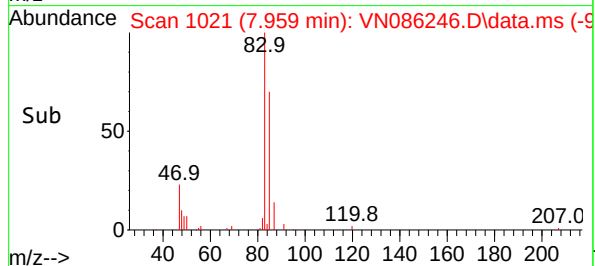
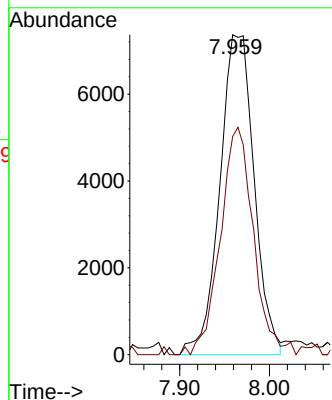
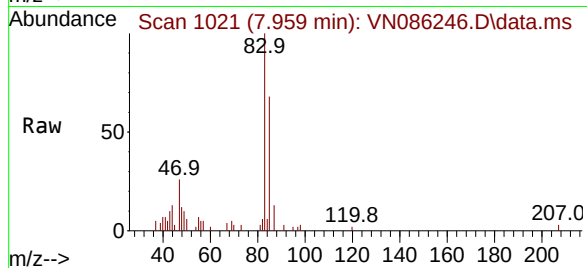
85 68.2 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 4.999 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

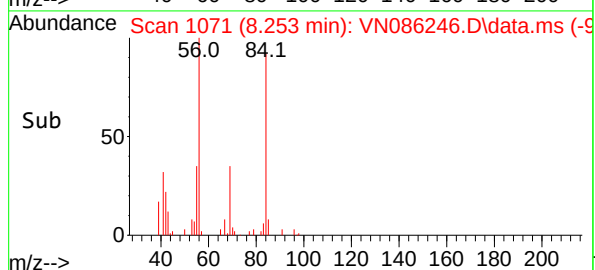
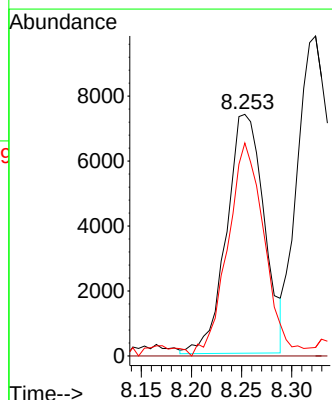
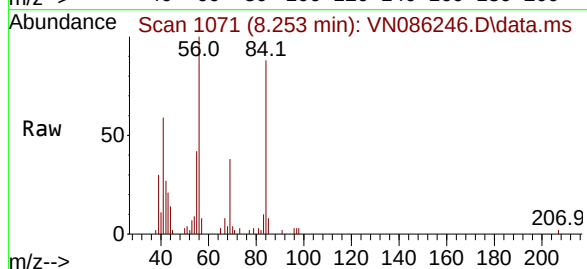
Tgt Ion: 56 Resp: 19181

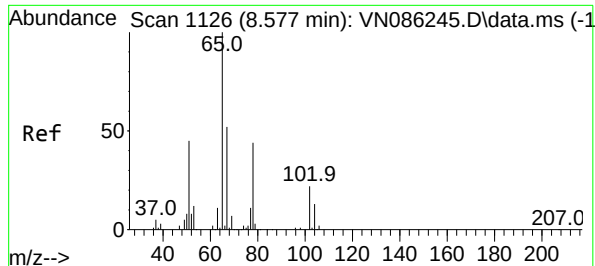
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.6 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 30.785 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 8088

Ion Ratio Lower Upper

65 100

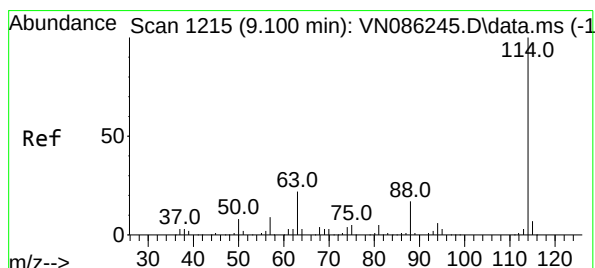
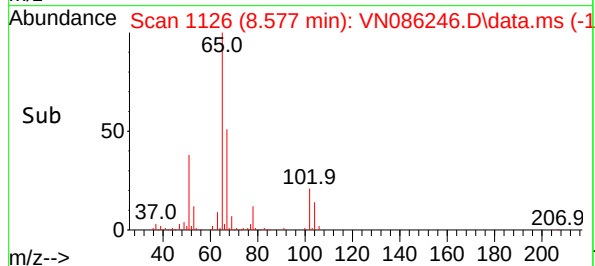
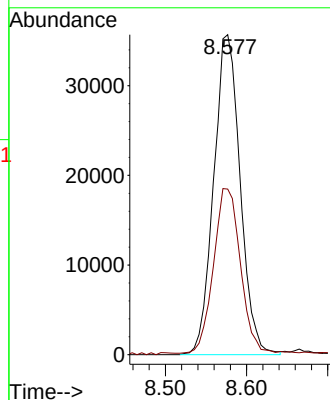
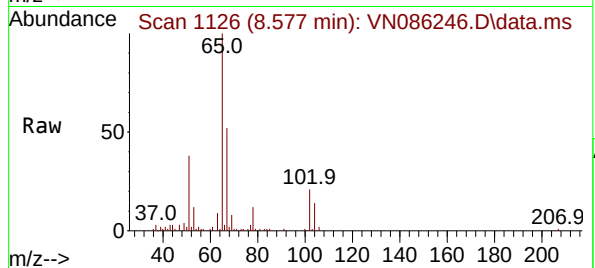
67 52.0 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

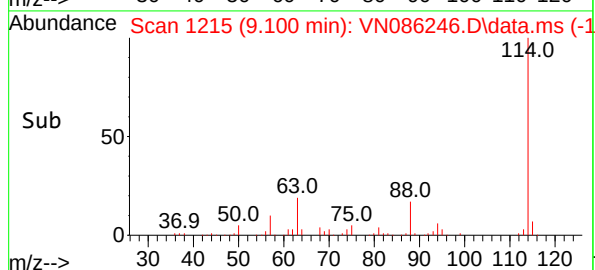
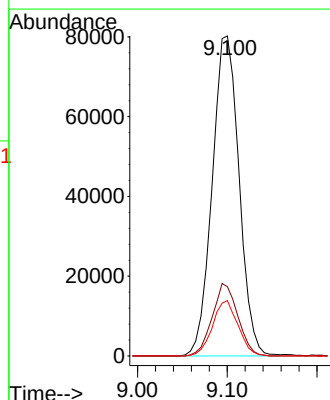
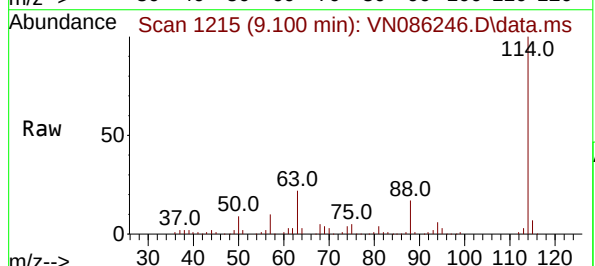
Tgt Ion:114 Resp: 166827

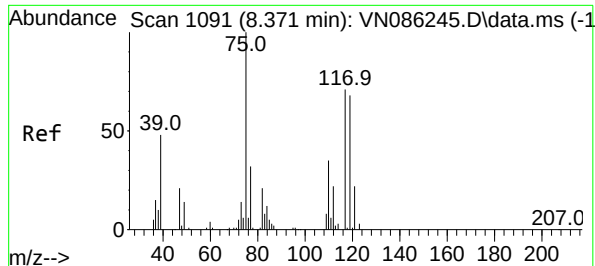
Ion Ratio Lower Upper

114 100

63 21.5 17.8 26.6

88 16.4 13.4 20.2





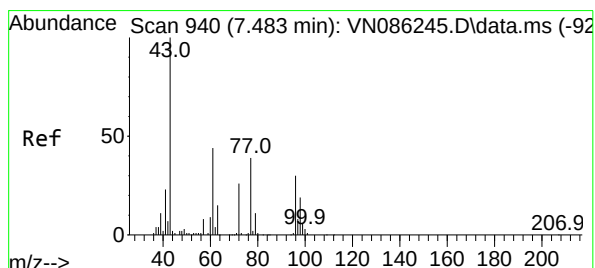
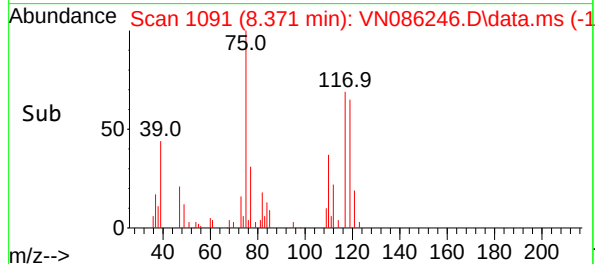
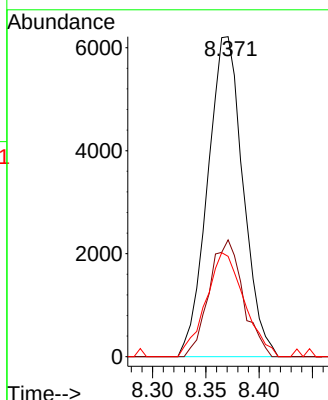
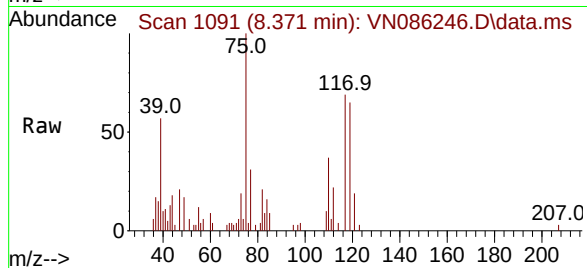
#29
1,1-Dichloropropene
Concen: 4.803 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.9	0.0	68.6
77	35.2	0.0	63.8

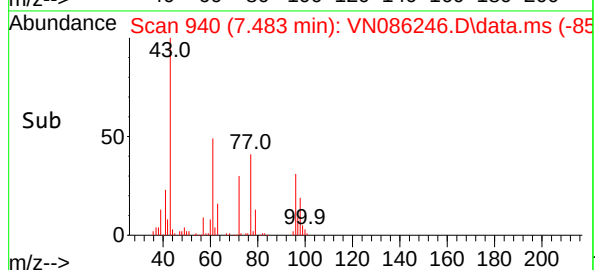
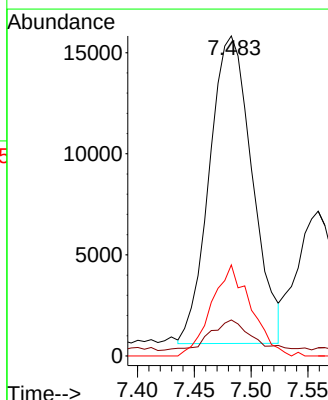
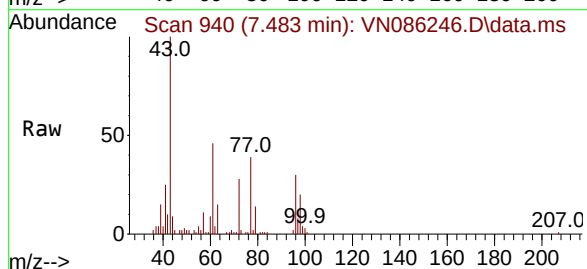
Manual Integrations
APPROVED

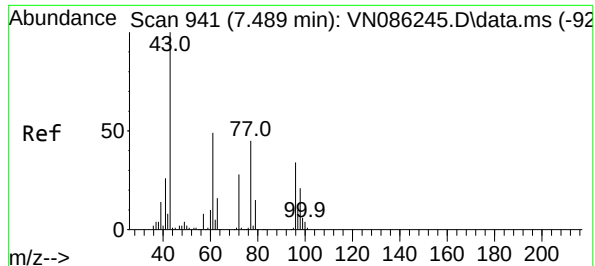
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#30
2-Butanone
Concen: 24.089 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.0	6.4	9.6
72	27.2	21.5	32.3





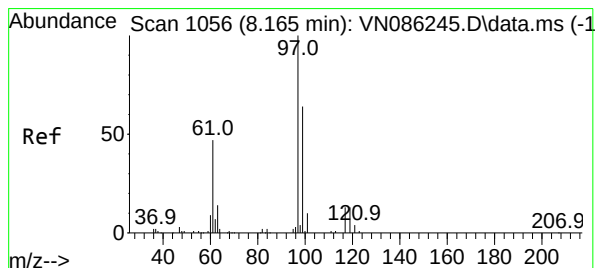
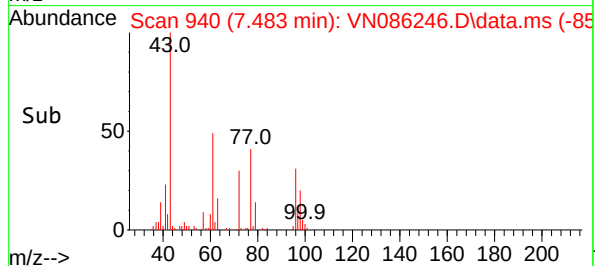
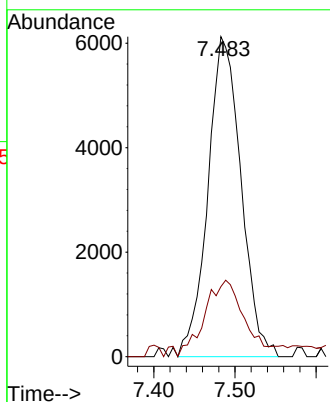
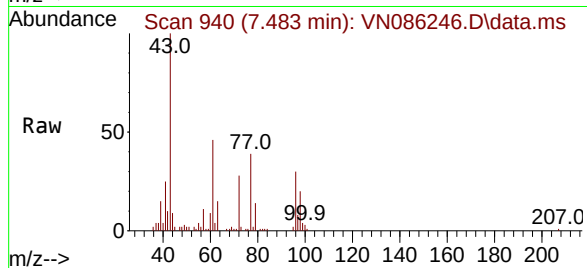
#31
2,2-Dichloropropane
Concen: 4.711 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 77 Resp: 1733
Ion Ratio Lower Upper
77 100
97 15.5 18.8 28.2

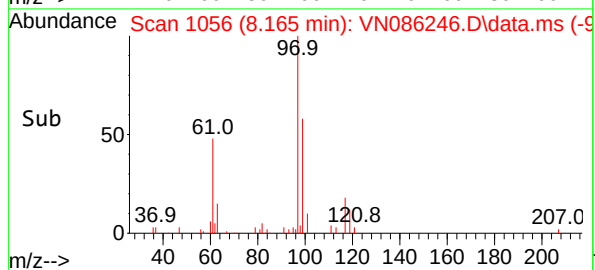
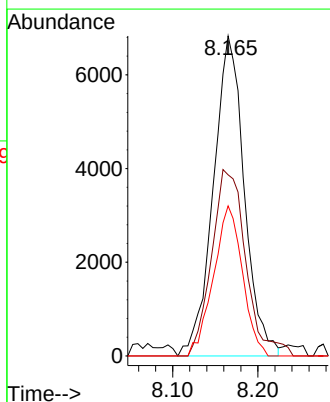
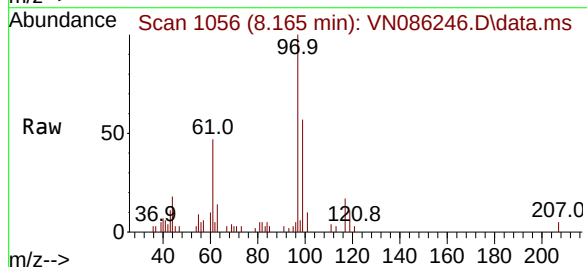
Manual Integrations
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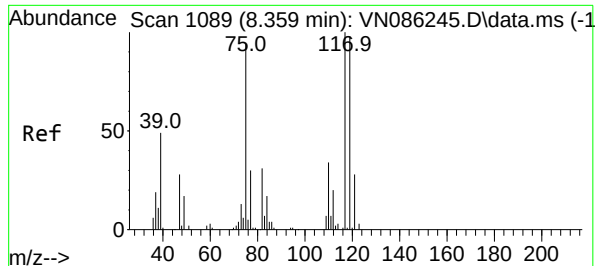
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 5.024 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

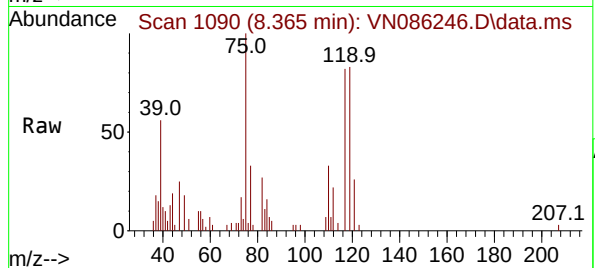
Tgt Ion: 97 Resp: 17271
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.2
61 43.9 37.0 55.6





#33
Carbon Tetrachloride
Concen: 4.633 ug/l
RT: 8.365 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

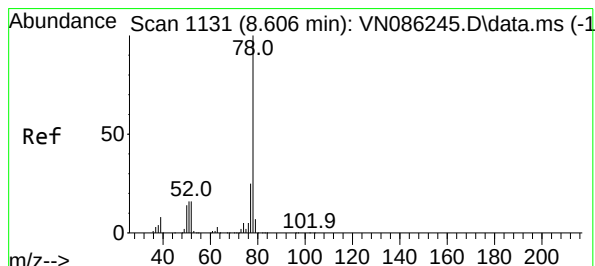
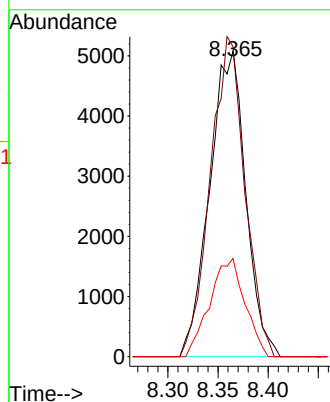
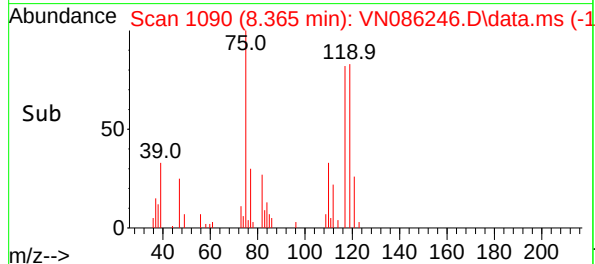
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 117 Resp: 1272
Ion Ratio Lower Upper
117 100
119 101.5 78.3 117.5
121 32.2 22.5 33.7

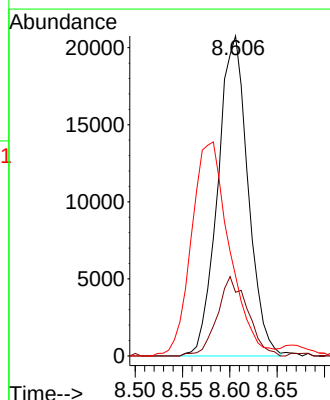
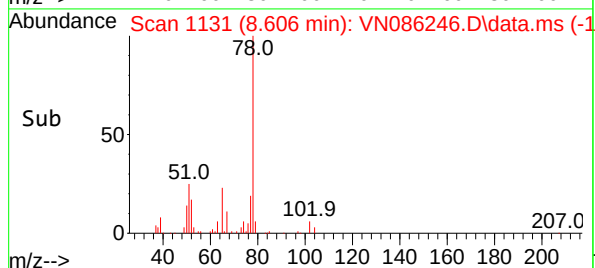
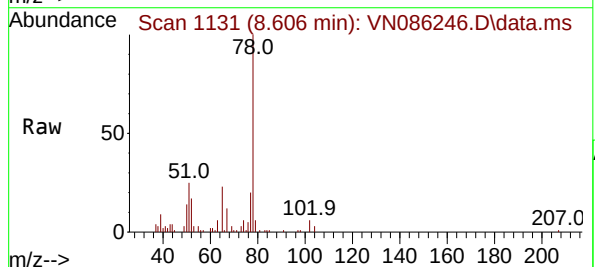
Manual Integrations
APPROVED

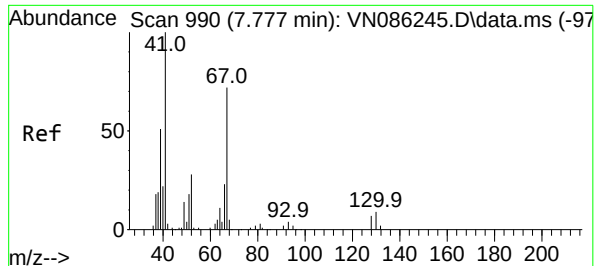
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 4.845 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 78 Resp: 46065
Ion Ratio Lower Upper
78 100
77 19.9 20.0 30.0#
51 22.7 12.9 19.3#





#35

Methacrylonitrile

Concen: 5.037 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 940

Ion Ratio Lower Upper

41 100

39 57.0 25.8 77.3

67 70.6 36.0 108.0

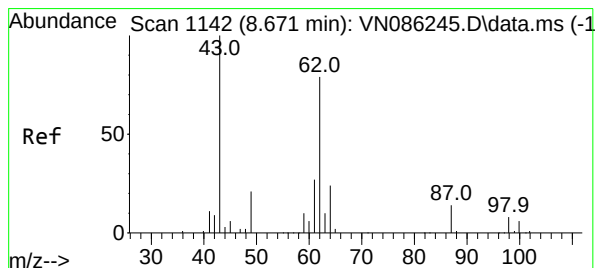
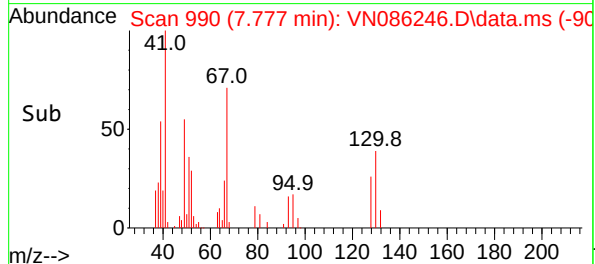
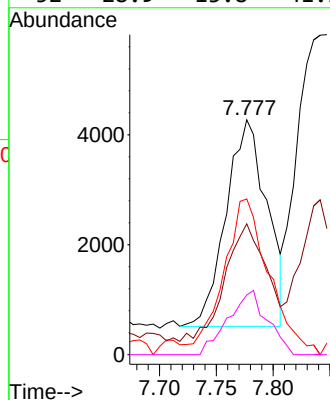
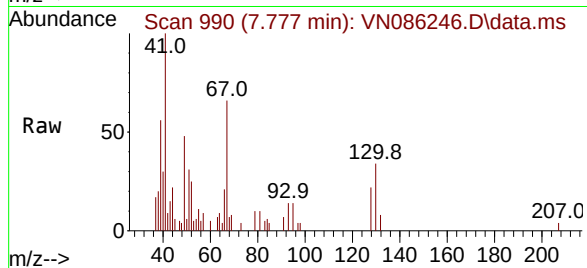
52 28.9 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 4.823 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086246.D

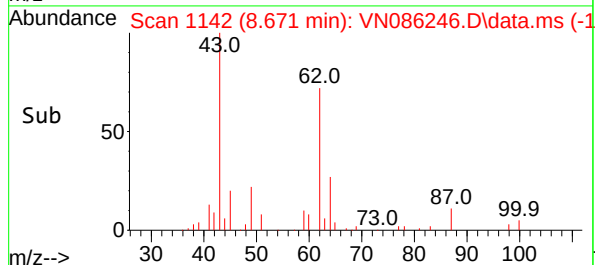
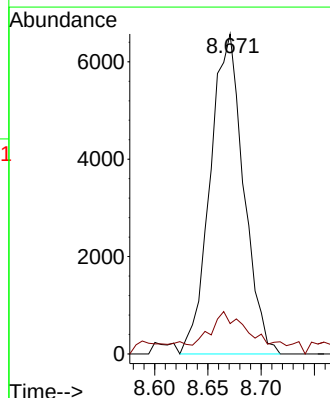
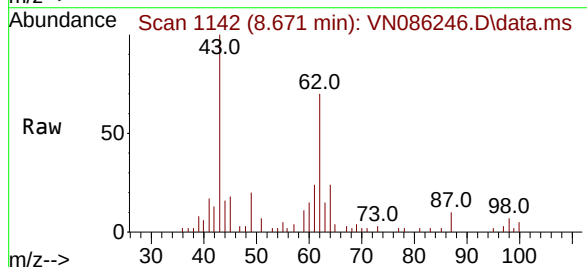
Acq: 11 Apr 2025 12:40

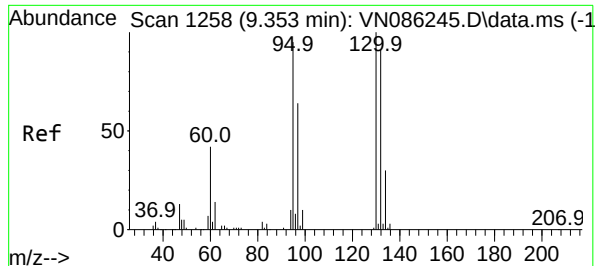
Tgt Ion: 62 Resp: 14350

Ion Ratio Lower Upper

62 100

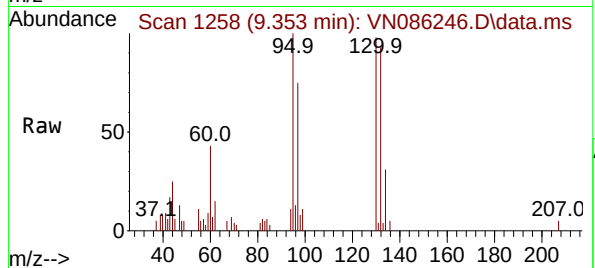
98 5.6 8.6 12.8#





#37
Trichloroethene
Concen: 4.697 ug/l
RT: 9.353 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

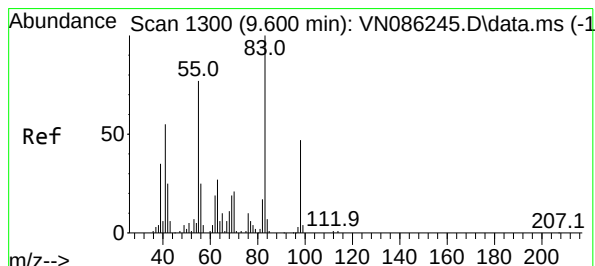
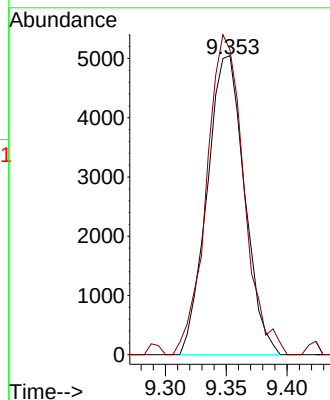
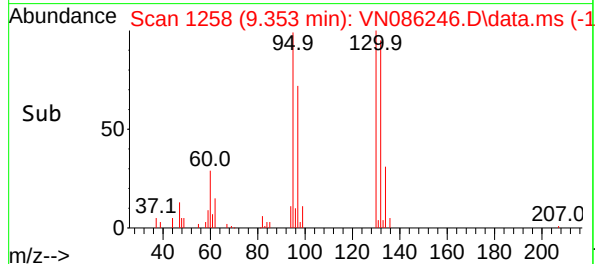
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 130 Resp: 10774
Ion Ratio Lower Upper
130 100
95 98.0 76.4 114.6

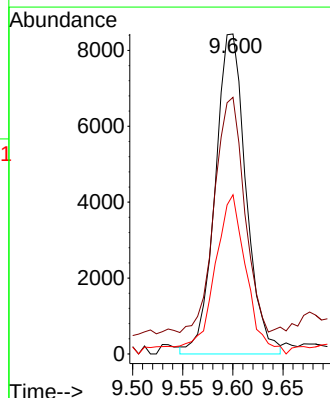
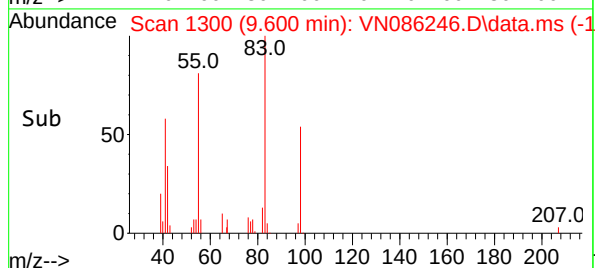
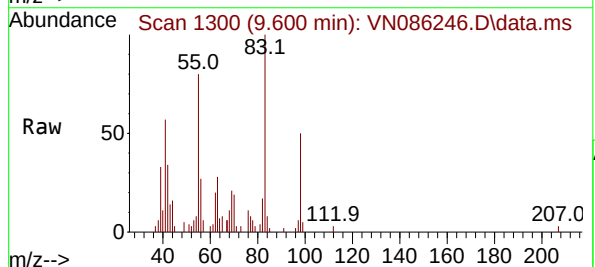
Manual Integrations
APPROVED

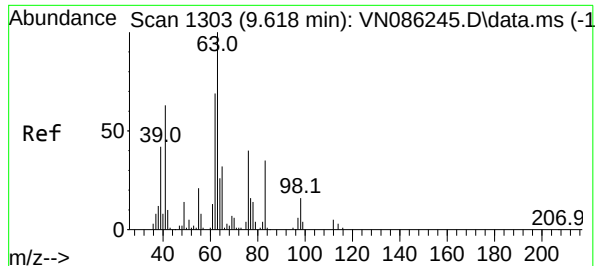
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#38
Methylcyclohexane
Concen: 4.929 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 83 Resp: 18064
Ion Ratio Lower Upper
83 100
55 74.6 38.5 115.5
98 50.9 24.4 73.2





#39

1,2-Dichloropropane

Concen: 4.735 ug/l

RT: 9.618 min Scan# 1120

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 1120

Ion Ratio Lower Upper

63 100

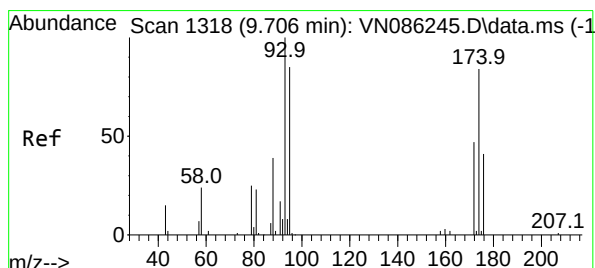
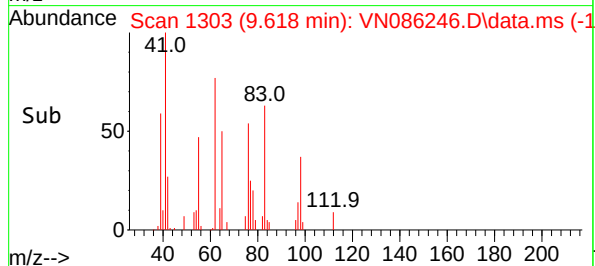
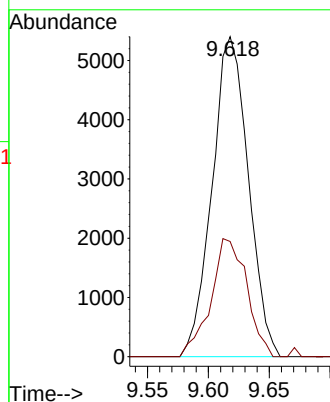
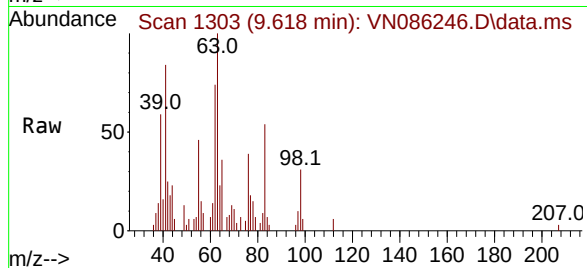
65 36.0 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 5.042 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

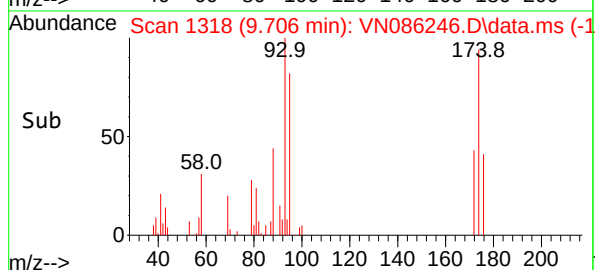
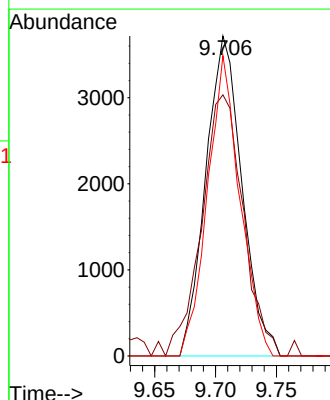
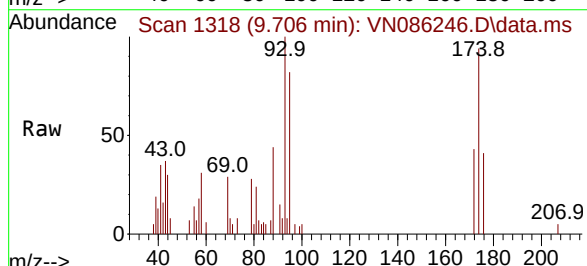
Tgt Ion: 93 Resp: 7704

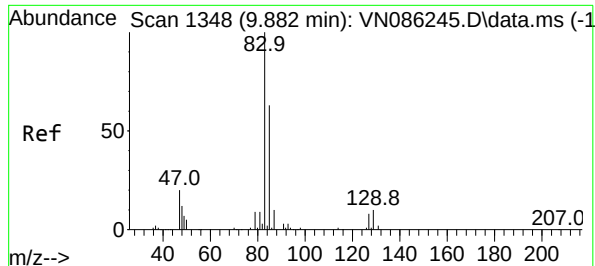
Ion Ratio Lower Upper

93 100

95 93.0 0.0 169.0

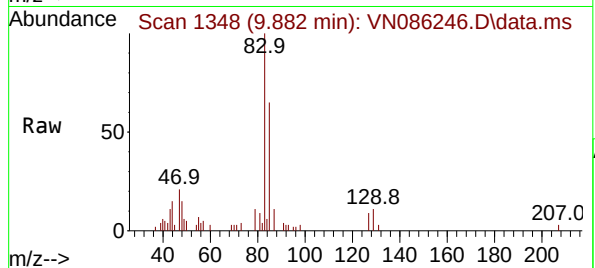
174 83.9 0.0 168.0





#41
Bromodichloromethane
Concen: 5.109 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

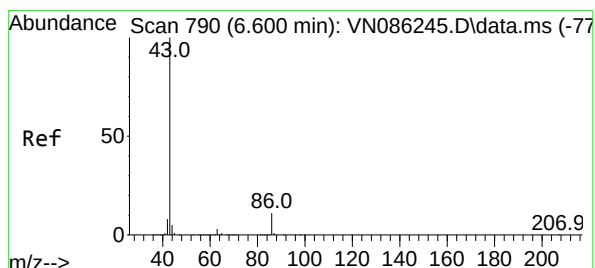
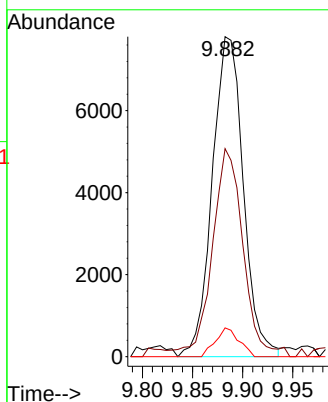
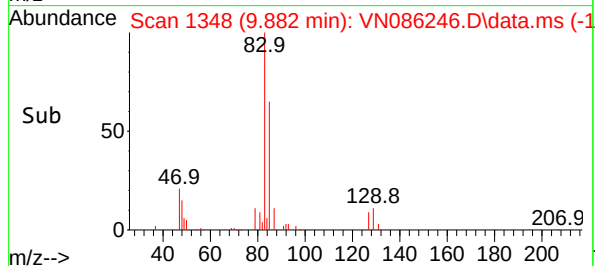
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 83 Resp: 16772
Ion Ratio Lower Upper
83 100
85 62.7 50.2 75.2
127 9.0 6.2 9.4

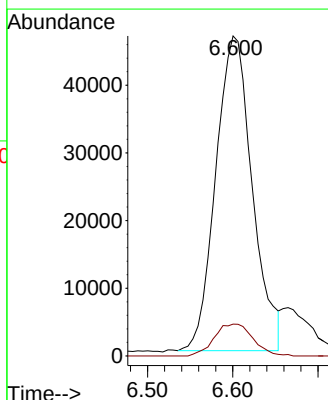
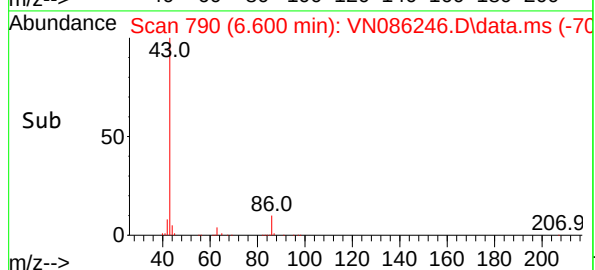
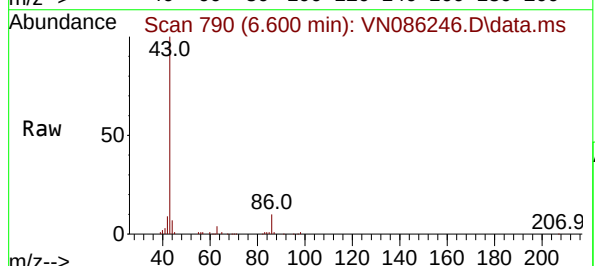
Manual Integrations
APPROVED

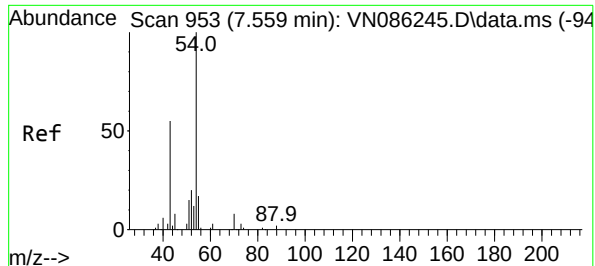
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 24.613 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 43 Resp: 138739
Ion Ratio Lower Upper
43 100
86 10.7 8.4 12.6





#43

Ethyl Acetate

Concen: 5.045 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 16850

Ion Ratio Lower Upper

43 100

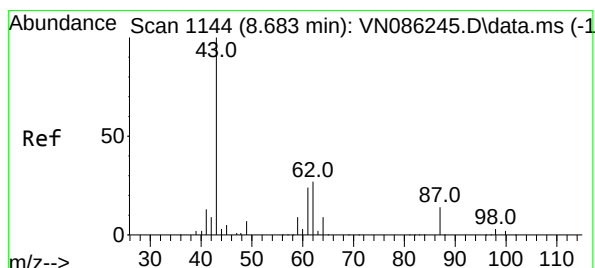
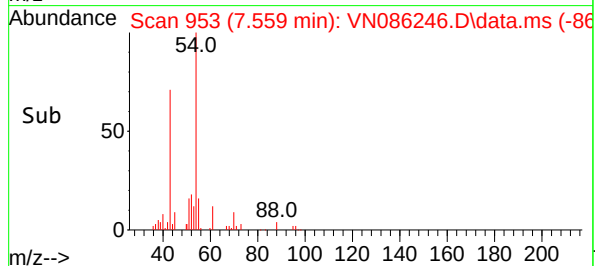
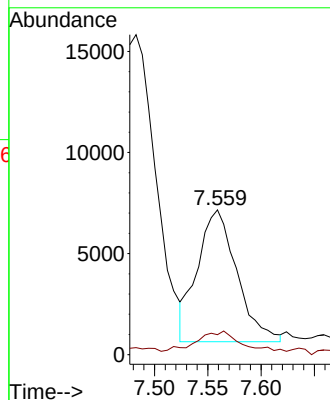
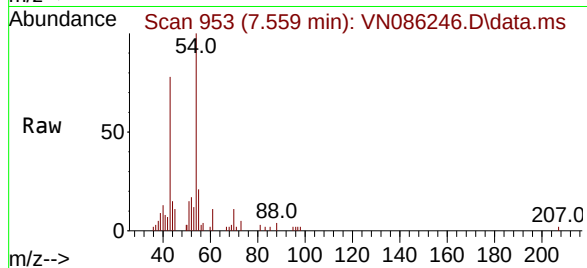
45 5.4 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#44

Isopropyl Acetate

Concen: 5.463 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086246.D

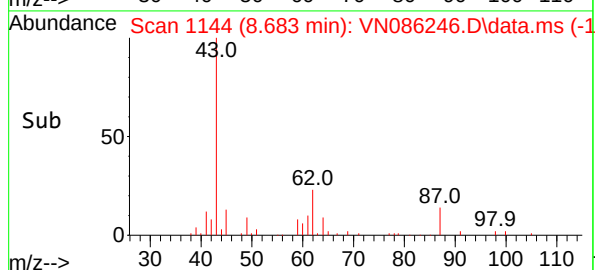
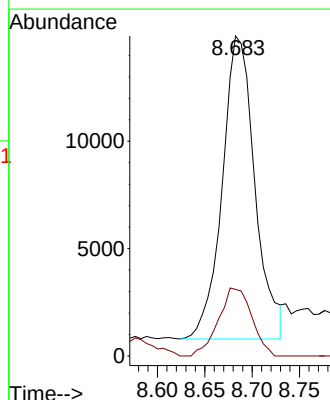
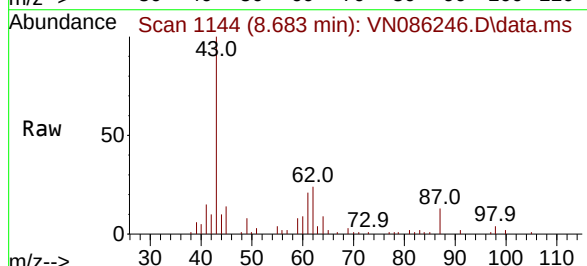
Acq: 11 Apr 2025 12:40

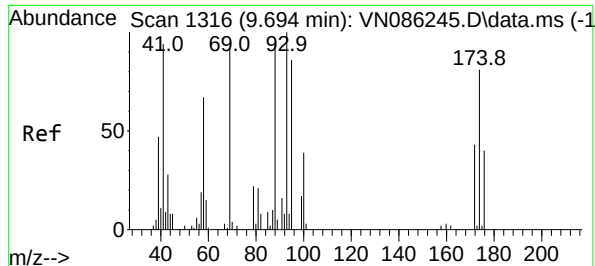
Tgt Ion: 43 Resp: 33849

Ion Ratio Lower Upper

43 100

61 22.8 20.5 30.7





#45

1,4-Dioxane

Concen: 97.983 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

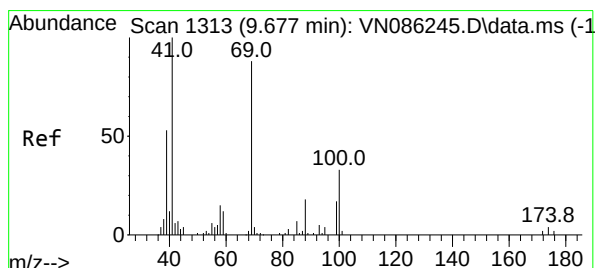
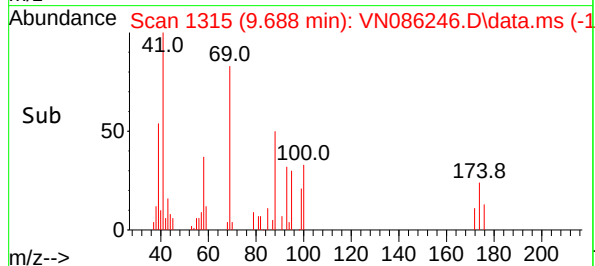
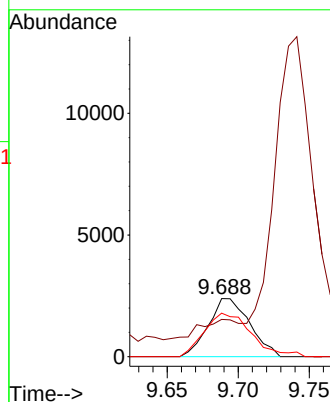
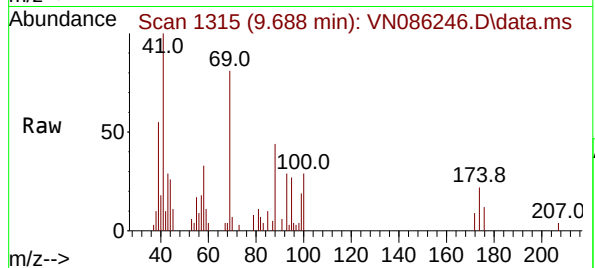
Tgt Ion:	88	Resp:	4828
Ion	Ratio	Lower	Upper
88	100		
43	5.9	14.4	21.6
58	84.2	59.8	89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 4.759 ug/l

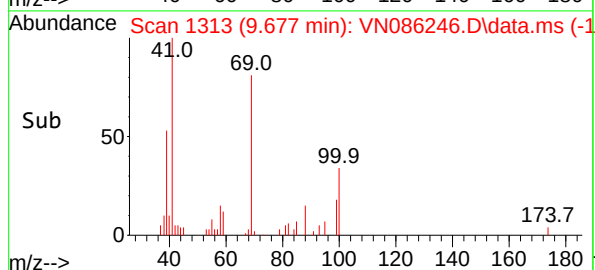
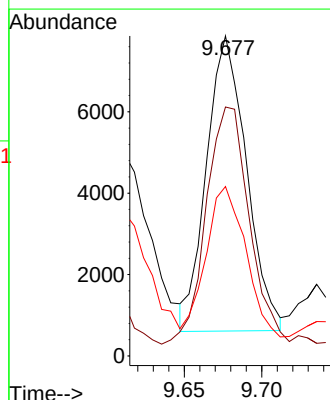
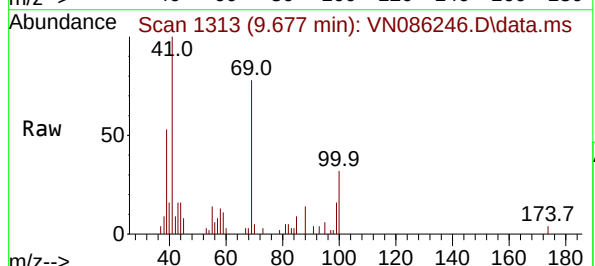
RT: 9.677 min Scan# 1313

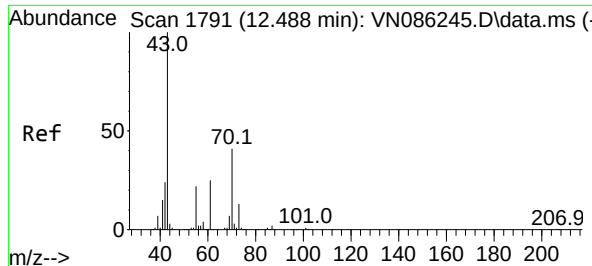
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	41	Resp:	12994
Ion	Ratio	Lower	Upper
41	100		
69	79.8	43.2	129.6
39	53.4	26.4	79.0





#47

n-amy1 Acetate

Concen: 4.860 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 24334

Ion Ratio Lower Upper

43 100

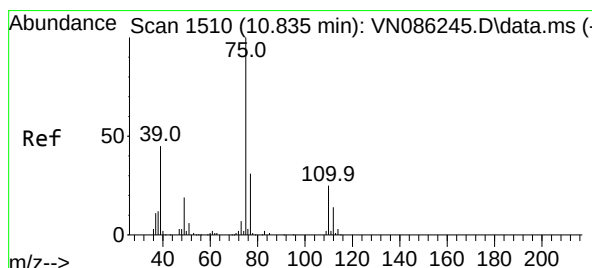
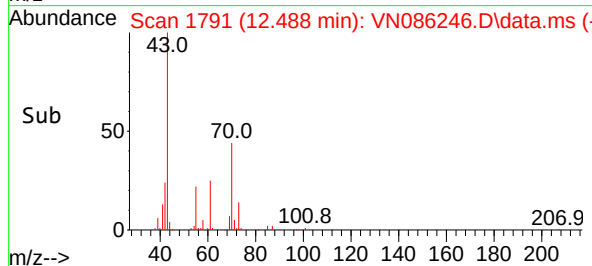
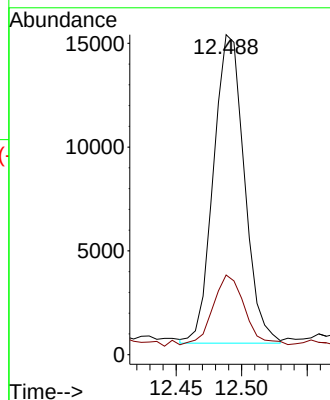
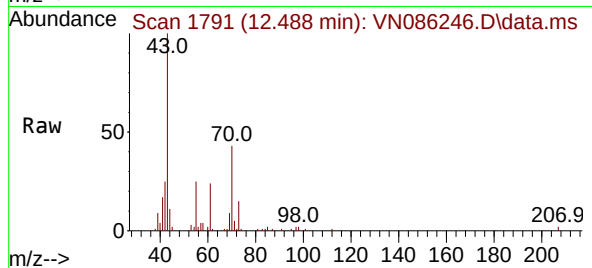
55 22.9 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 4.801 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN086246.D

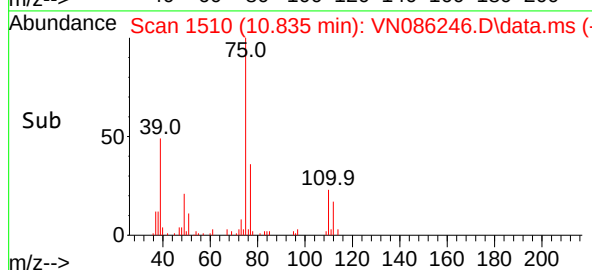
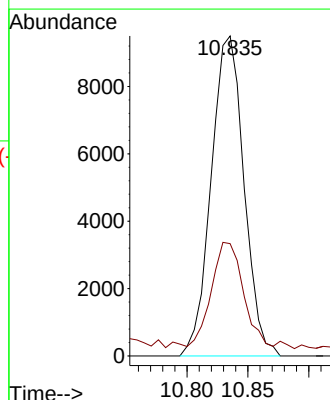
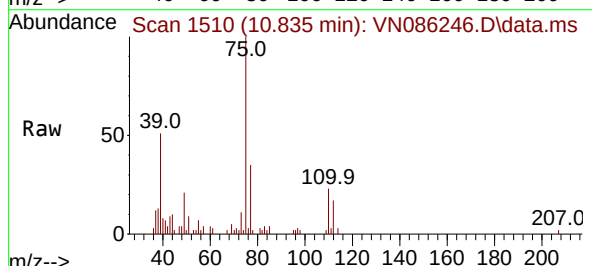
Acq: 11 Apr 2025 12:40

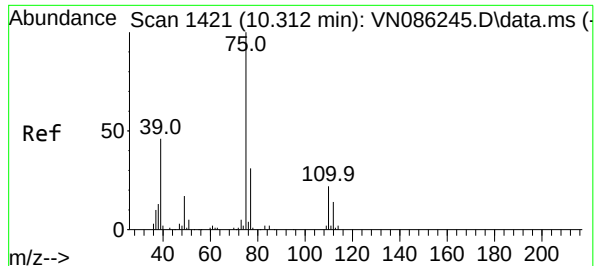
Tgt Ion: 75 Resp: 17815

Ion Ratio Lower Upper

75 100

77 31.4 25.1 37.7





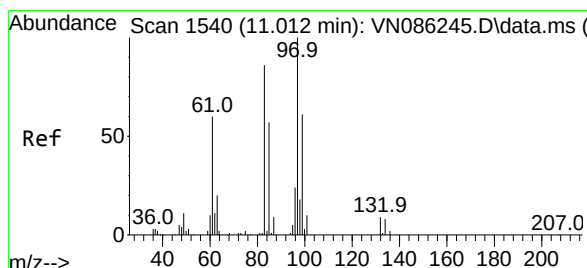
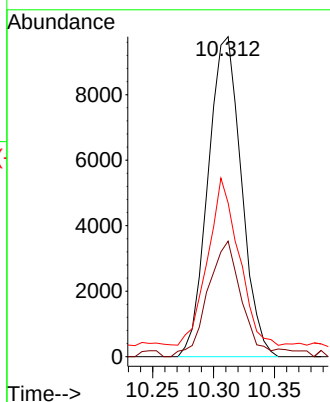
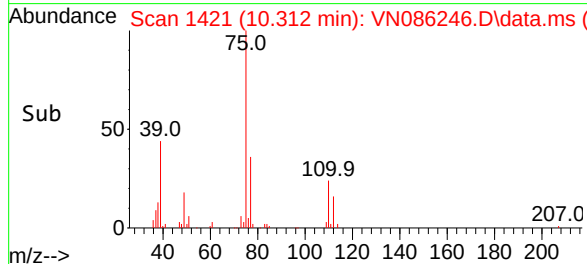
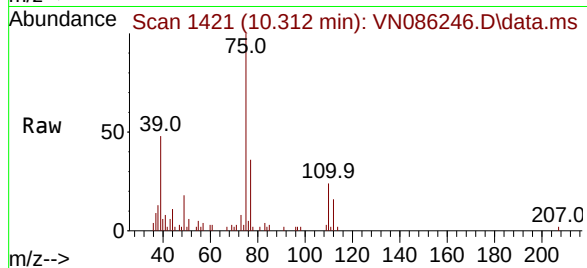
#49
cis-1,3-Dichloropropene
Concen: 4.740 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.4	25.0	37.4
39	44.5	36.7	55.1

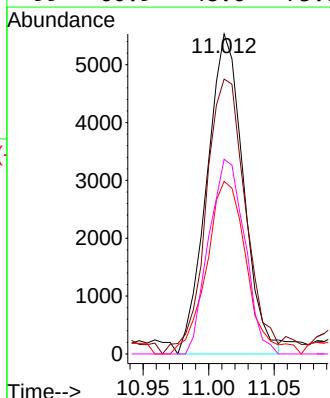
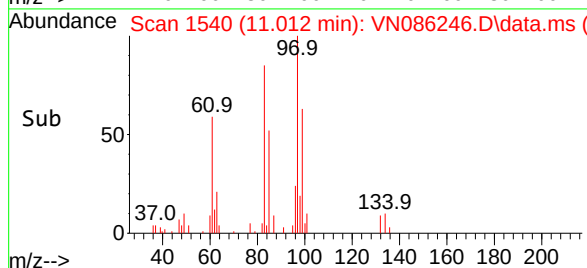
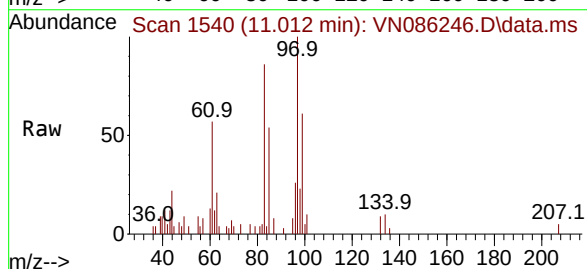
Manual Integrations
APPROVED

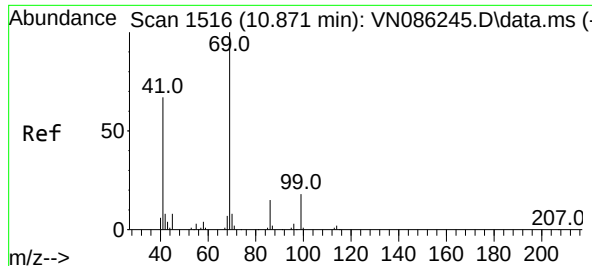
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#50
1,1,2-Trichloroethane
Concen: 4.997 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

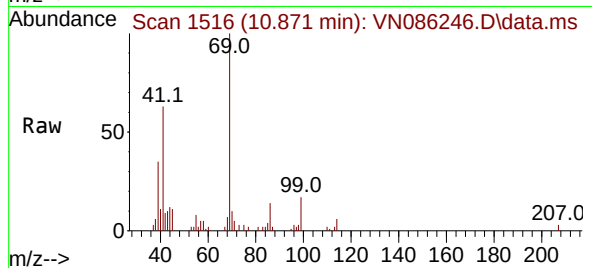
Tgt Ion	Ratio	Lower	Upper
97	100		
83	82.8	68.6	103.0
85	51.2	45.9	68.9
99	60.9	48.6	73.0





#51
Ethyl methacrylate
Concen: 4.890 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

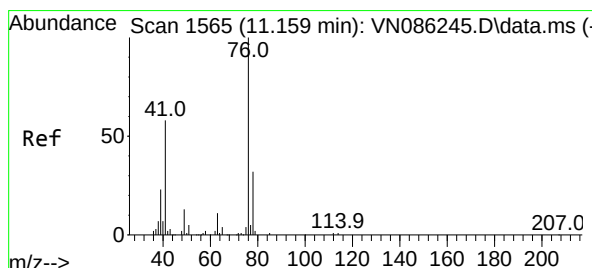
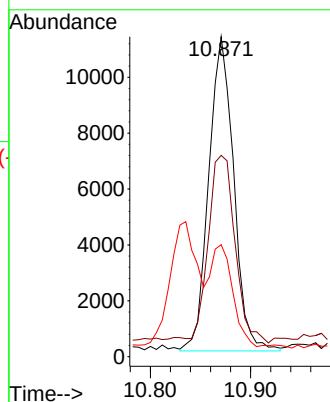
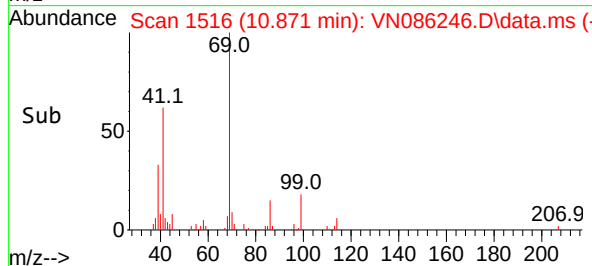
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 69 Resp: 1947
Ion Ratio Lower Upper
69 100
41 58.5 33.6 100.6
39 32.2 17.8 53.4

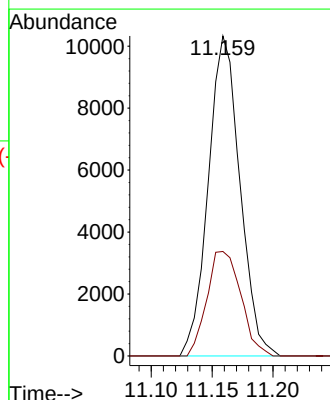
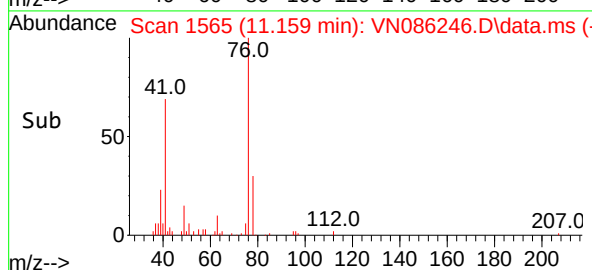
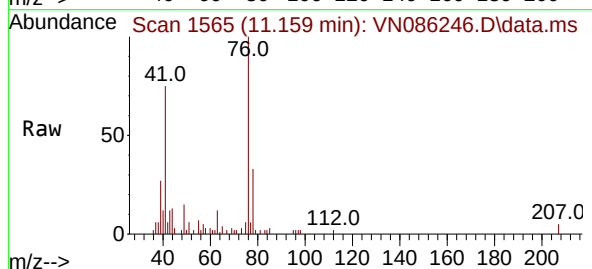
Manual Integrations
APPROVED

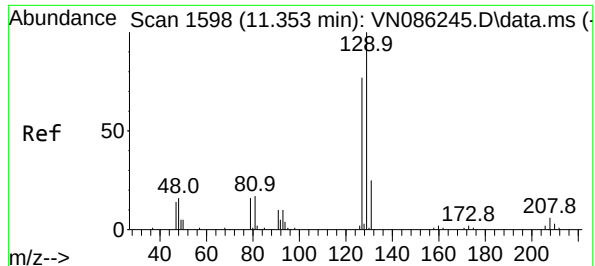
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 4.887 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

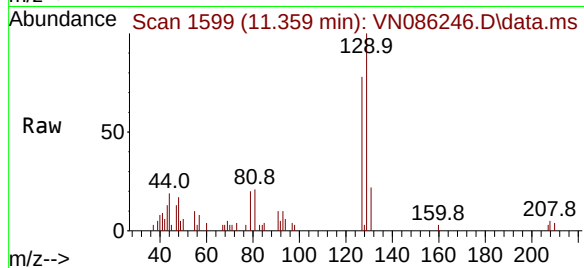
Tgt Ion: 76 Resp: 18666
Ion Ratio Lower Upper
76 100
78 35.0 0.0 64.6





#53
Dibromochloromethane
Concen: 4.813 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

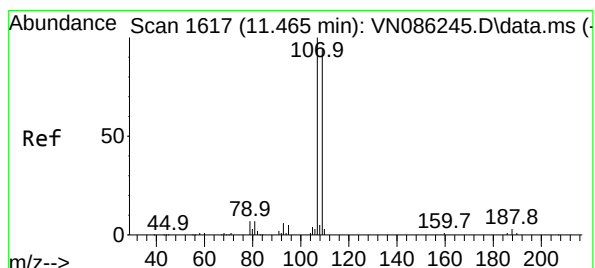
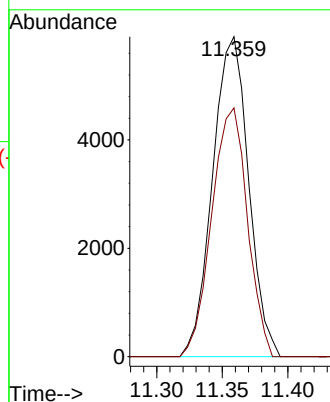
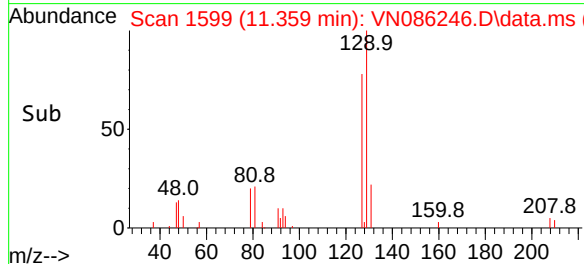
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



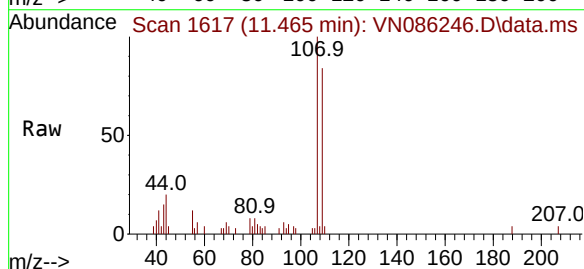
Tgt Ion:129 Resp: 1128
Ion Ratio Lower Upper
129 100
127 77.0 38.5 115.5

Manual Integrations
APPROVED

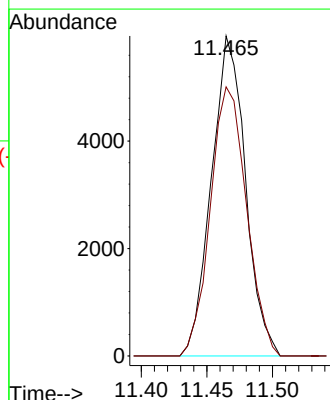
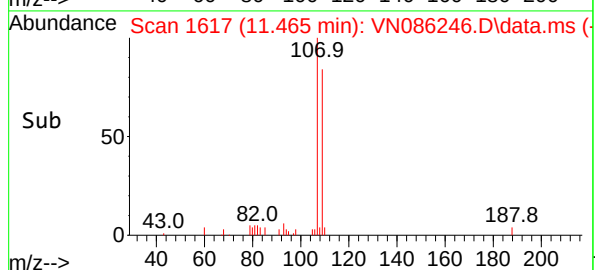
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

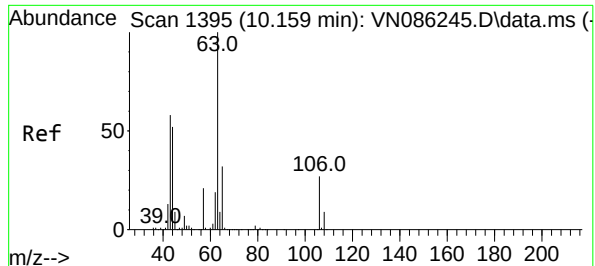


#54
1,2-Dibromoethane
Concen: 4.965 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40



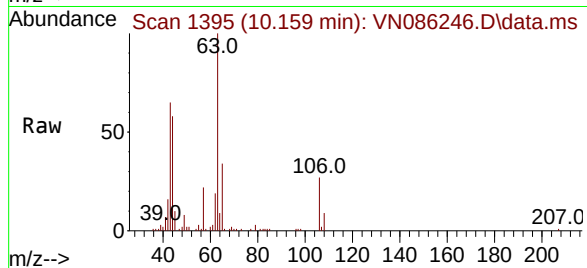
Tgt Ion:107 Resp: 10742
Ion Ratio Lower Upper
107 100
109 89.5 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 29.389 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

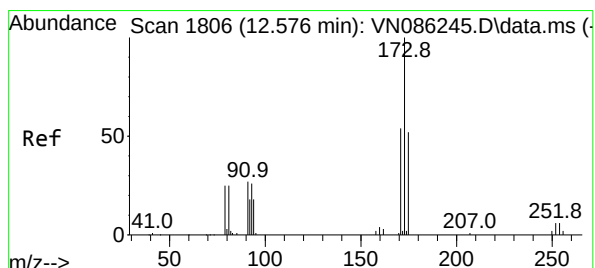
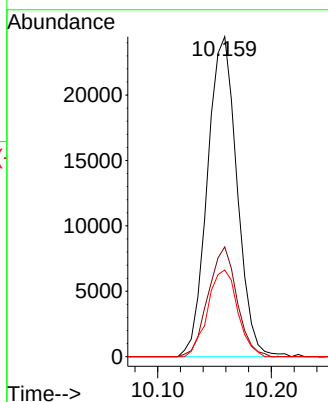
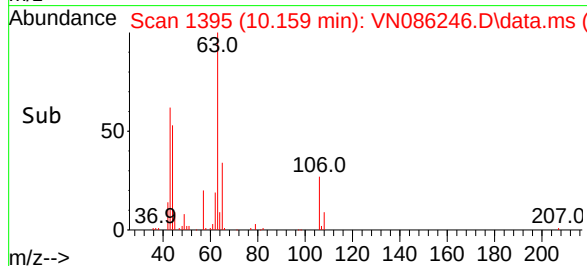
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 63 Resp: 44228
Ion Ratio Lower Upper
63 100
65 33.2 25.8 38.8
106 27.4 21.8 32.8

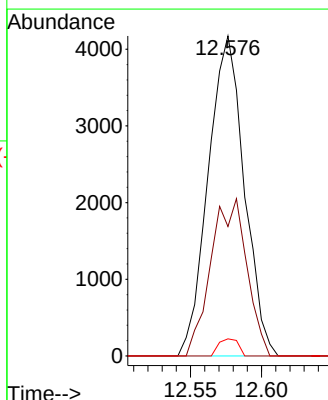
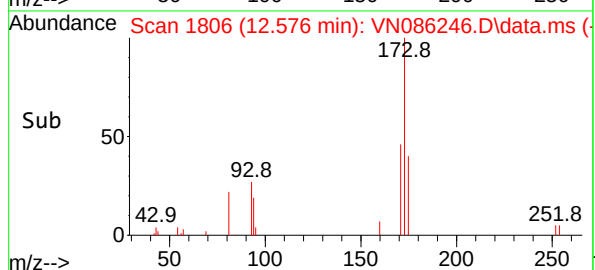
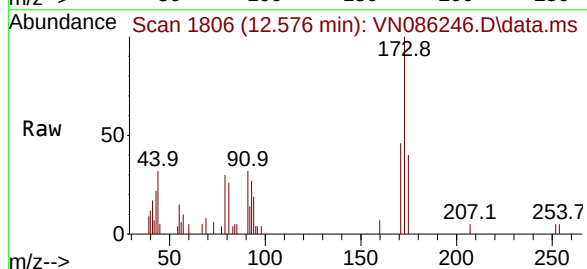
Manual Integrations
APPROVED

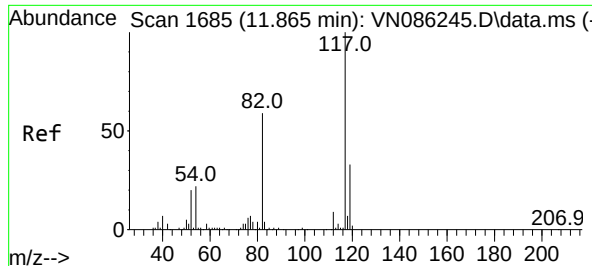
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 4.804 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

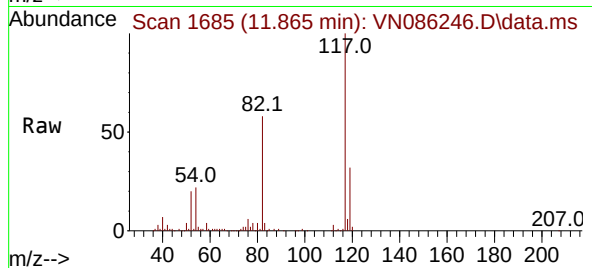
Tgt Ion:173 Resp: 7367
Ion Ratio Lower Upper
173 100
175 48.9 38.2 57.4
254 2.9 4.5 6.7#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

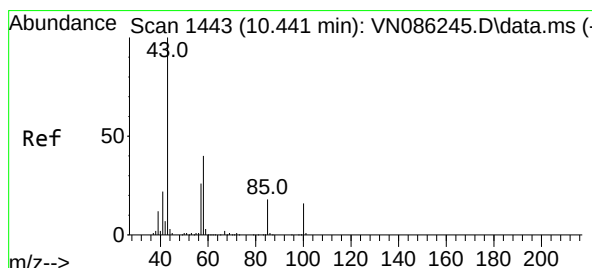
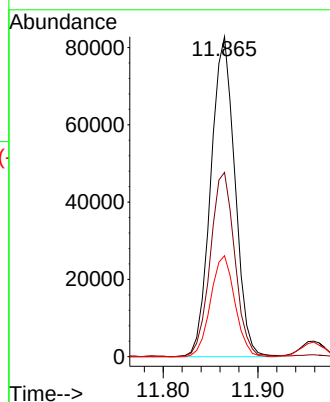
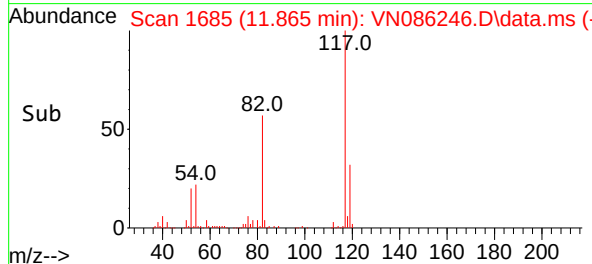
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 117 Resp: 14654
Ion Ratio Lower Upper
117 100
82 58.4 47.3 70.9
119 31.8 25.9 38.9

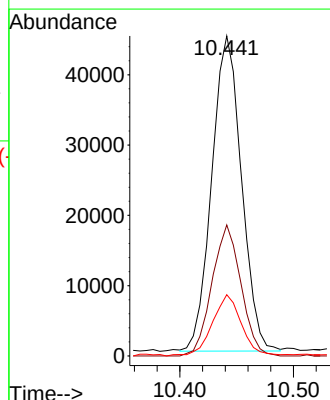
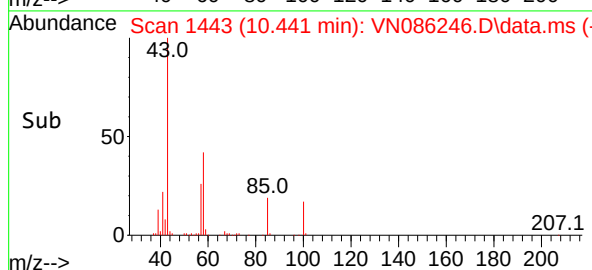
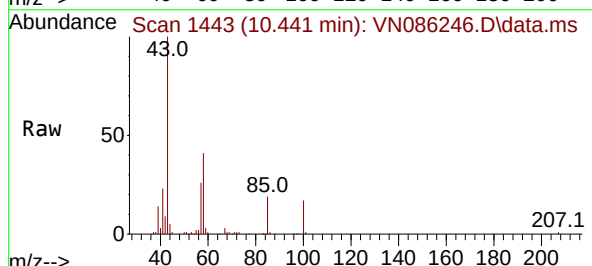
Manual Integrations
APPROVED

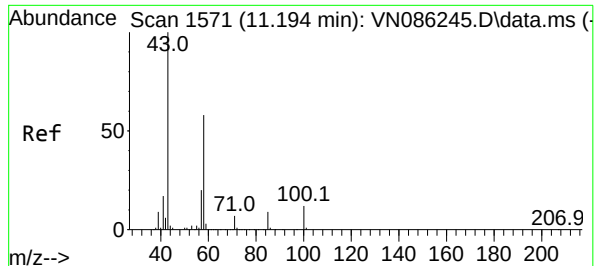
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 24.511 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

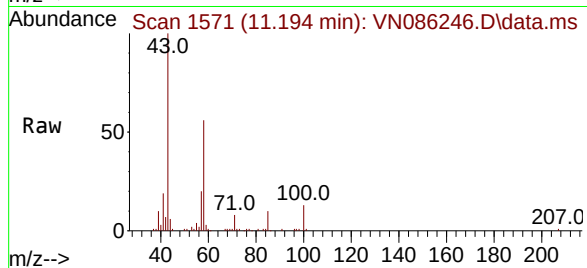
Tgt Ion: 43 Resp: 81510
Ion Ratio Lower Upper
43 100
58 40.4 32.5 48.7
85 18.8 14.4 21.6





#59
2-Hexanone
Concen: 24.465 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

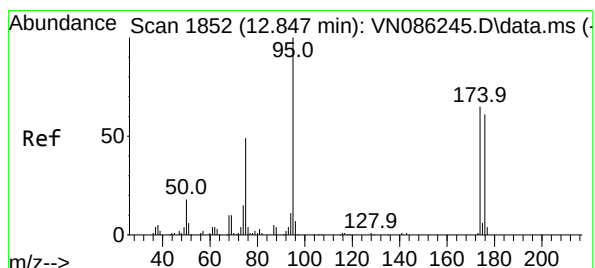
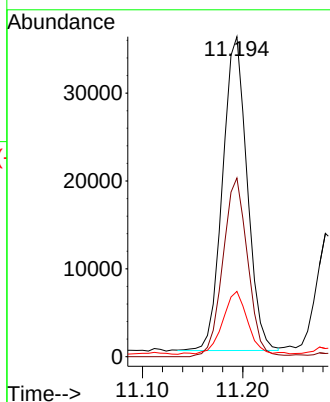
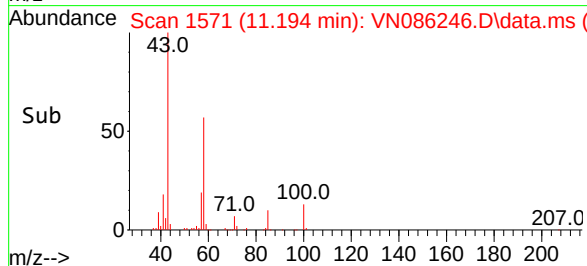
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 60580
Ion Ratio Lower Upper
43 100
58 57.5 45.3 67.9
57 19.9 15.8 23.6

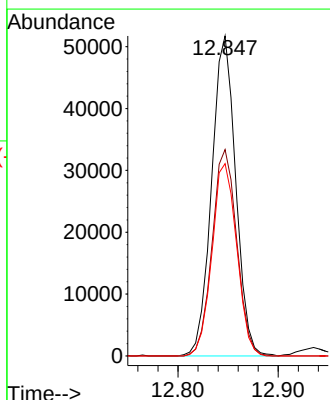
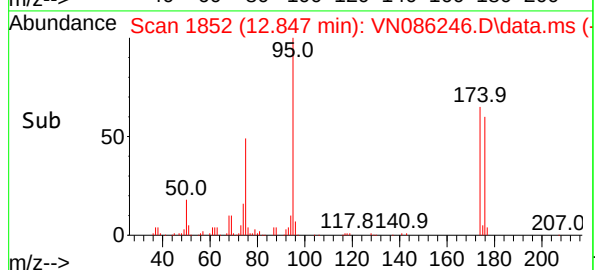
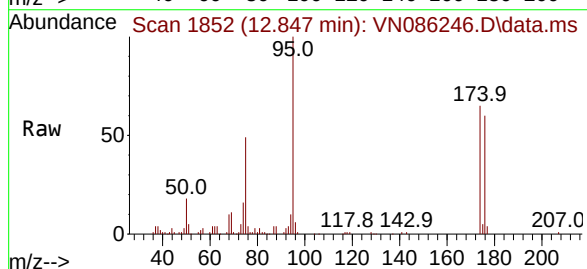
Manual Integrations
APPROVED

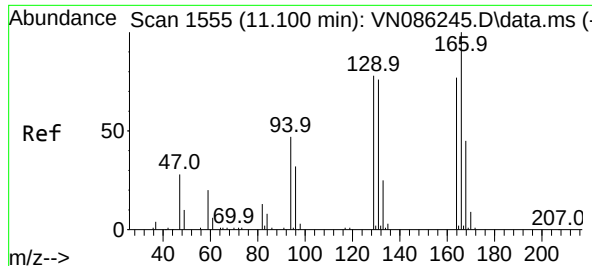
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 29.576 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

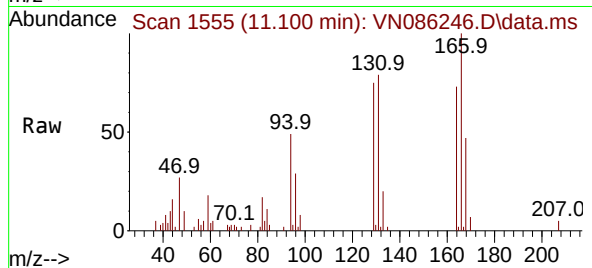
Tgt Ion: 95 Resp: 86291
Ion Ratio Lower Upper
95 100
174 66.1 52.7 79.1
176 61.8 49.8 74.8





#61
Tetrachloroethene
Concen: 4.683 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

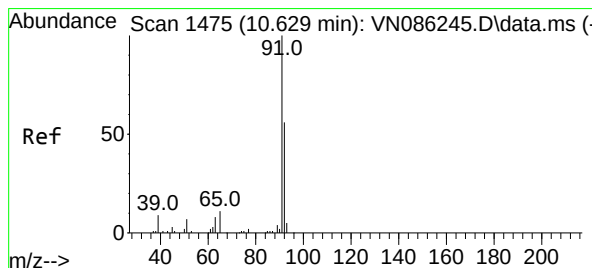
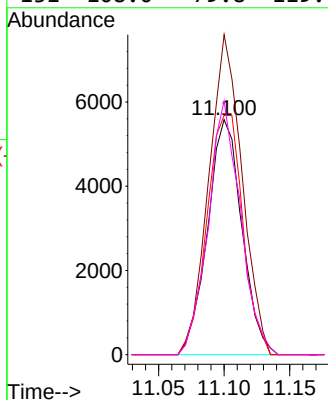
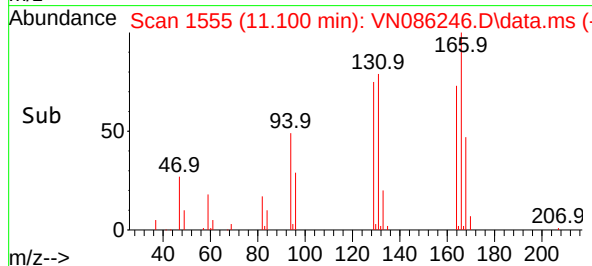
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:164 Resp: 10135
Ion Ratio Lower Upper
164 100
166 136.2 104.5 156.7
129 101.9 81.7 122.5
131 108.0 79.8 119.6

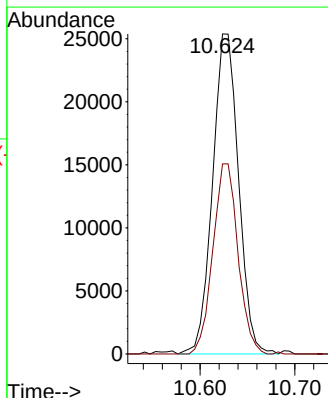
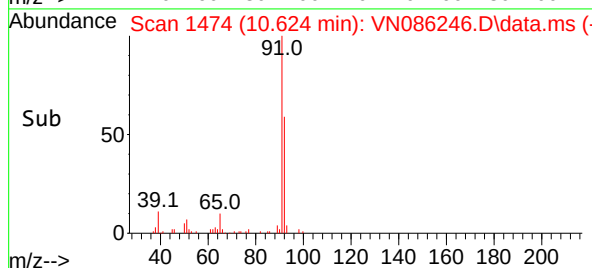
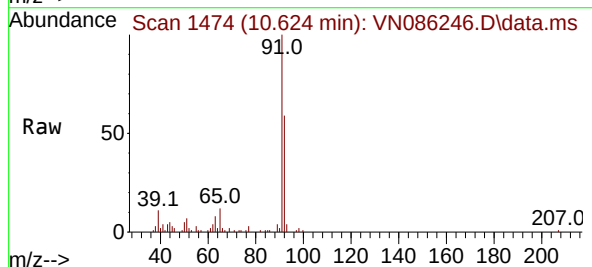
Manual Integrations
APPROVED

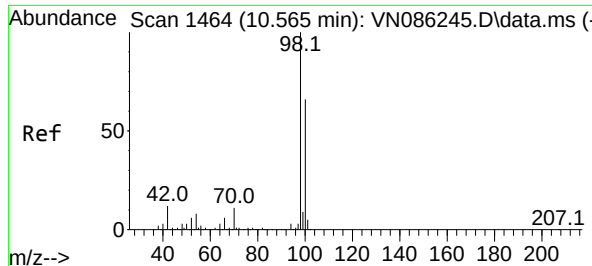
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 4.923 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

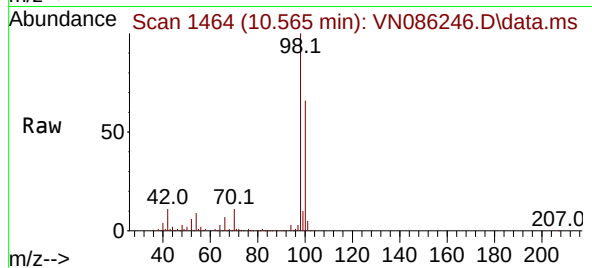
Tgt Ion: 91 Resp: 48384
Ion Ratio Lower Upper
91 100
92 57.5 46.8 70.2





#63
Toluene-d8
Concen: 30.283 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

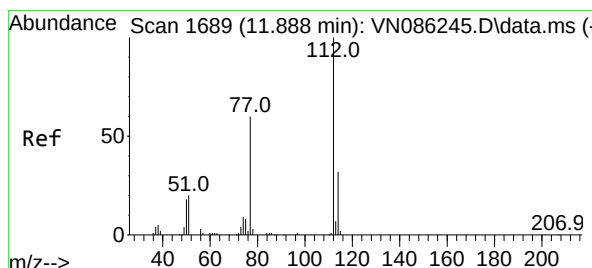
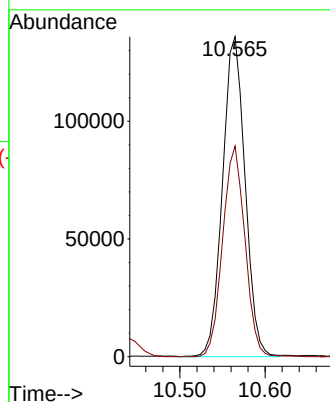
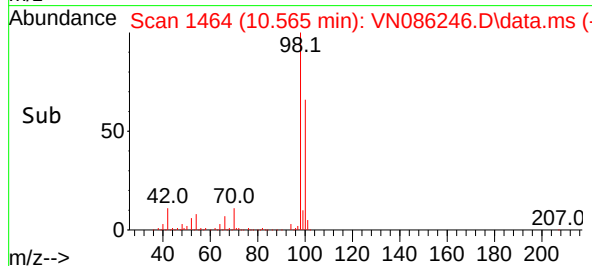
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 98 Resp: 25053
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5

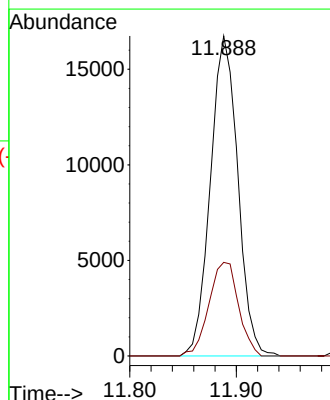
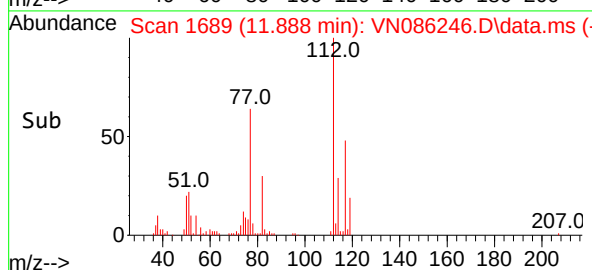
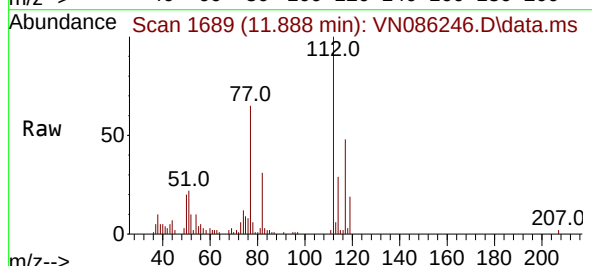
Manual Integrations
APPROVED

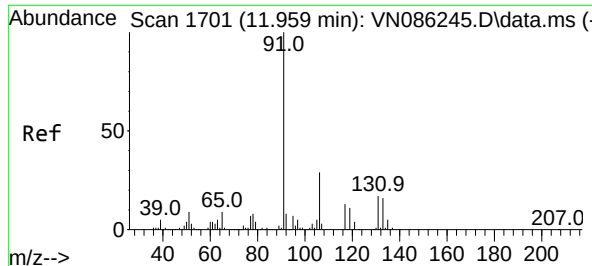
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 4.980 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:112 Resp: 29905
Ion Ratio Lower Upper
112 100
114 29.3 25.8 38.6





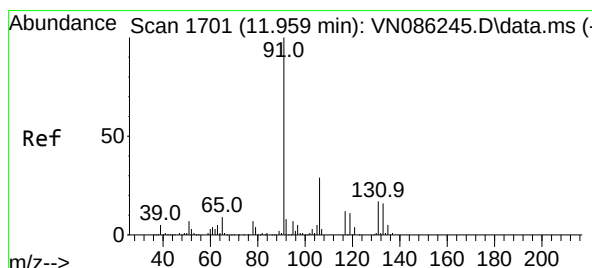
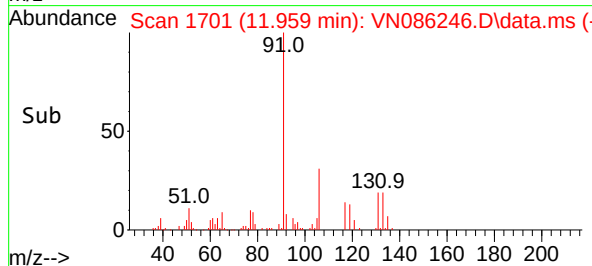
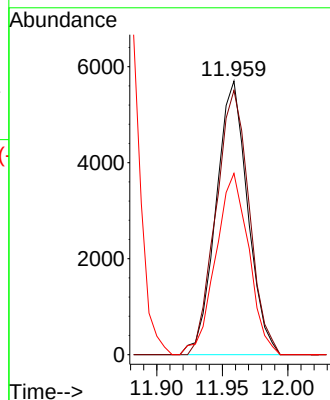
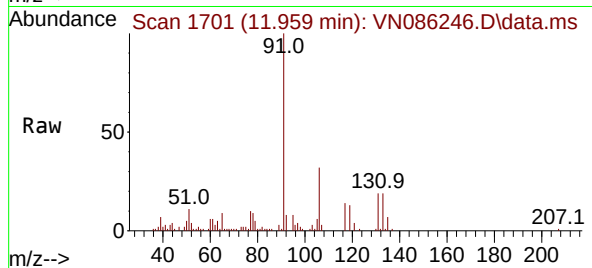
#65
1,1,1,2-Tetrachloroethane
Concen: 4.845 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.9	0.0	190.4
119	69.0	0.0	135.6

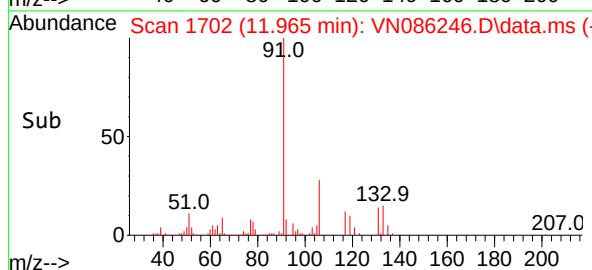
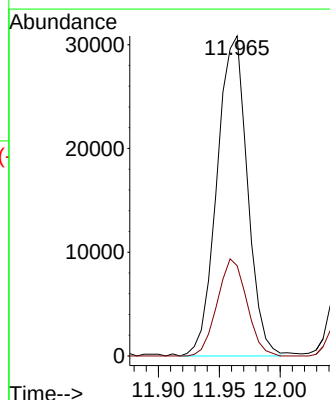
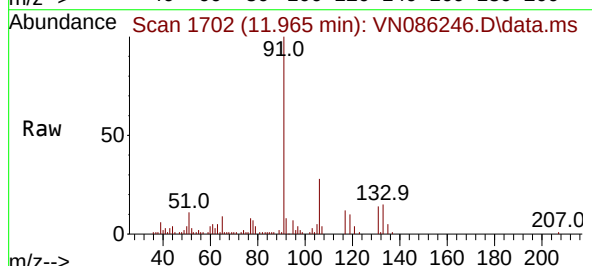
Manual Integrations
APPROVED

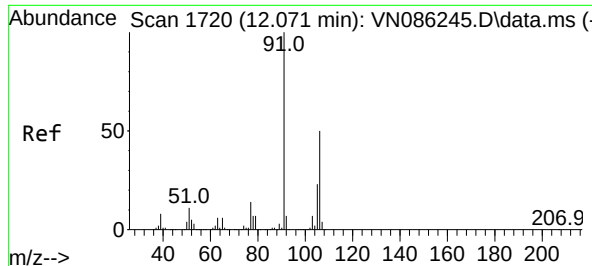
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 4.912 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.4	35.0





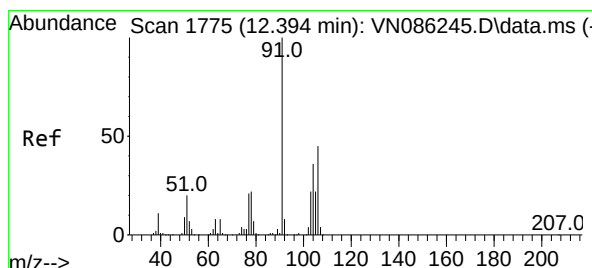
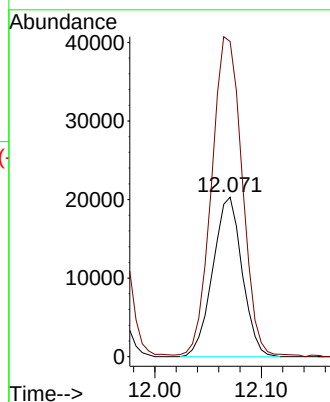
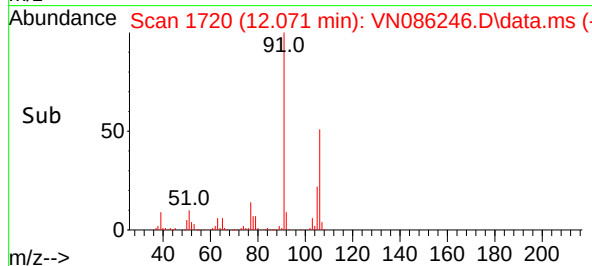
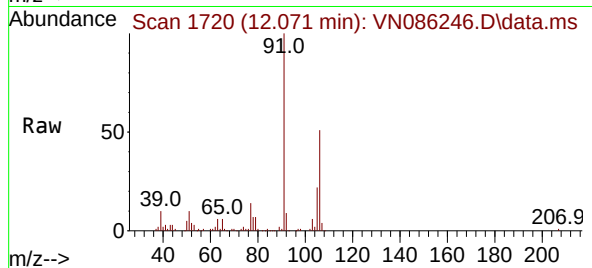
#67
m/p-Xylenes
Concen: 9.597 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 3889
Ion Ratio Lower Upper
106 100
91 209.5 164.5 246.7

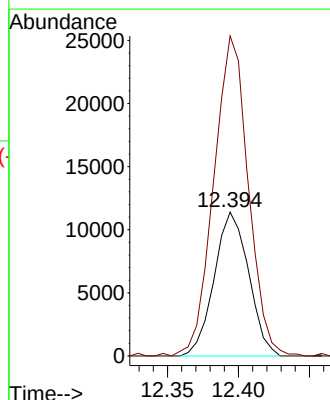
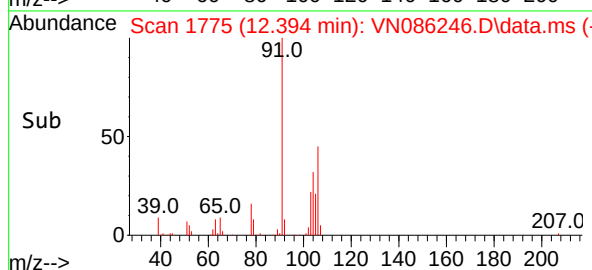
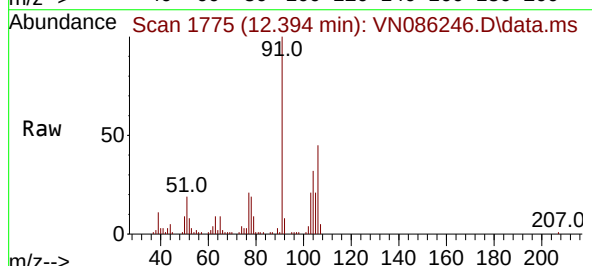
Manual Integrations
APPROVED

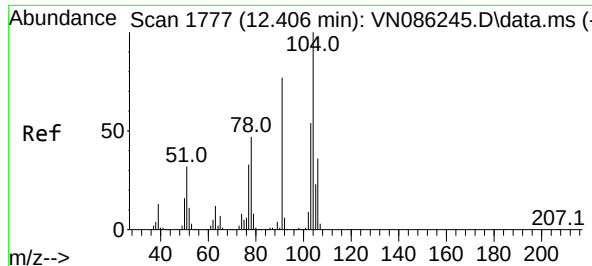
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 4.822 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:106 Resp: 19223
Ion Ratio Lower Upper
106 100
91 222.7 109.8 329.4





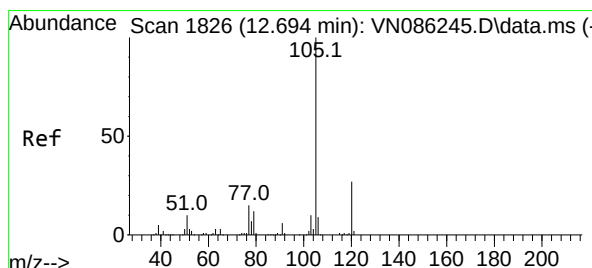
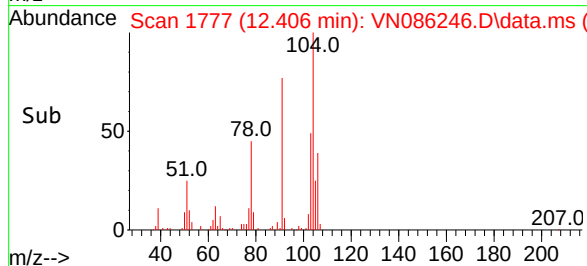
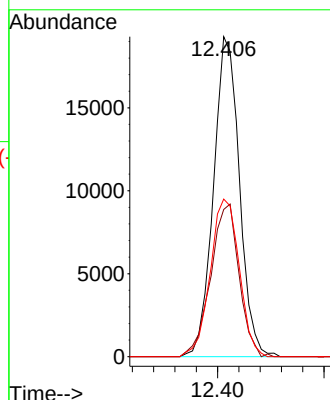
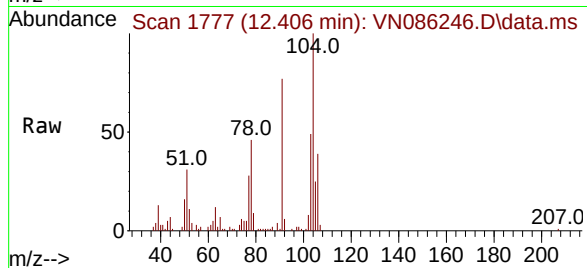
#69
Styrene
Concen: 4.846 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.8	41.4	62.0
103	54.8	44.2	66.4

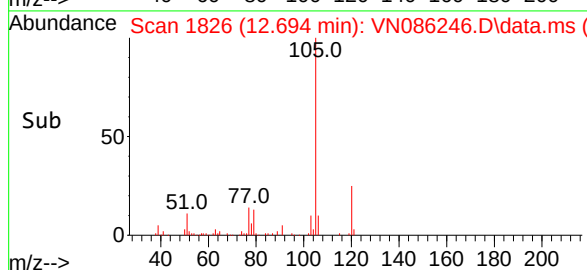
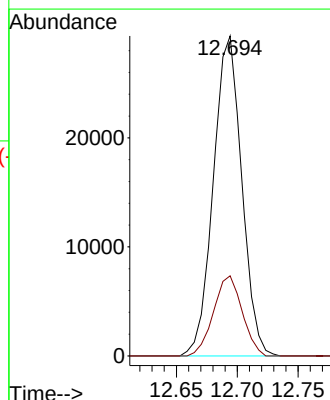
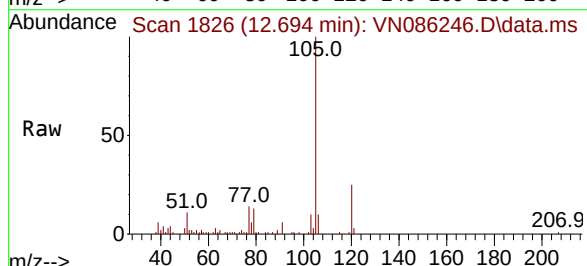
Manual Integrations
APPROVED

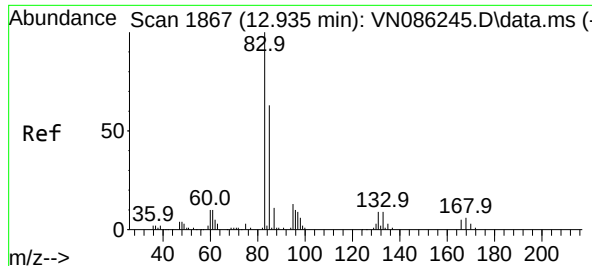
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 4.839 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	18.3	34.1





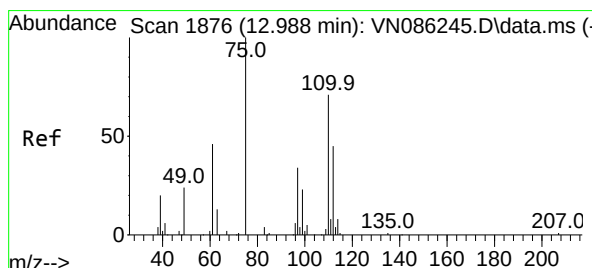
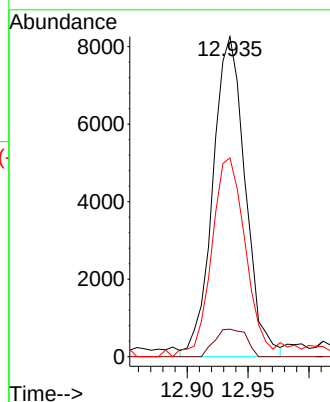
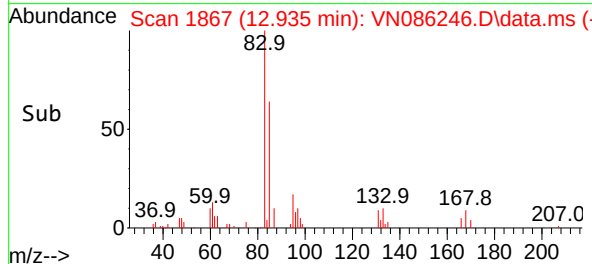
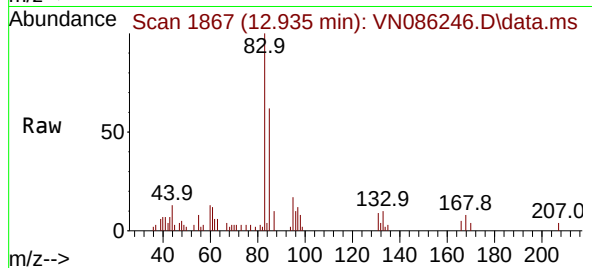
#71
1,1,2-Tetrachloroethane
Concen: 5.466 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.8	14.3
85	58.9	32.3	96.8

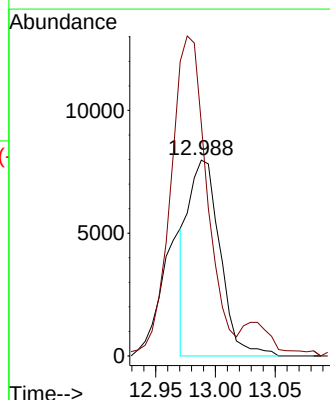
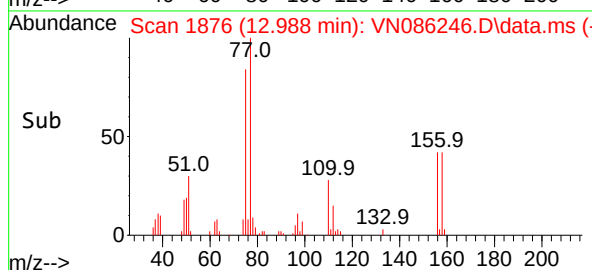
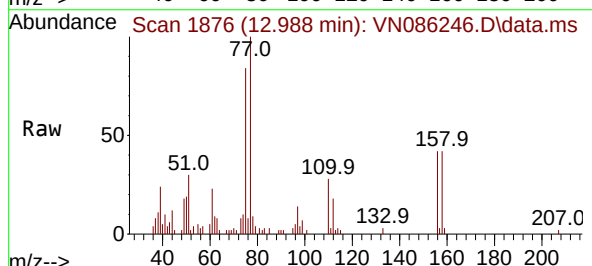
Manual Integrations
APPROVED

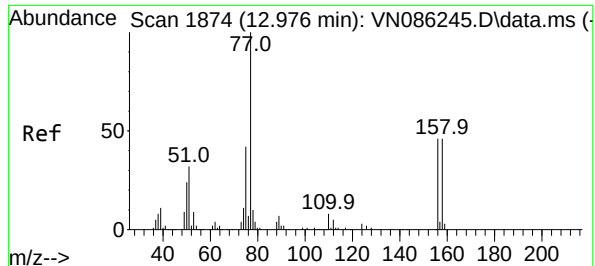
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 3.739 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
75	100		
77	185.5	0.0	380.0





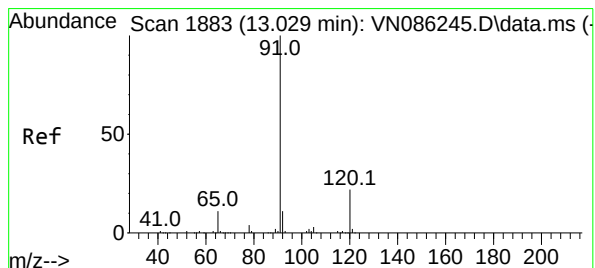
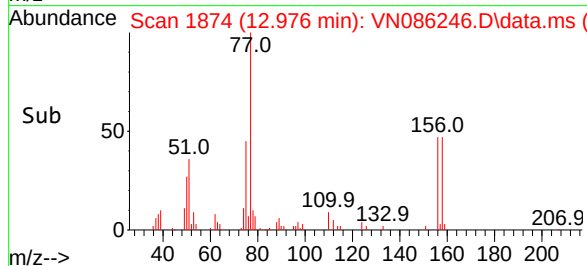
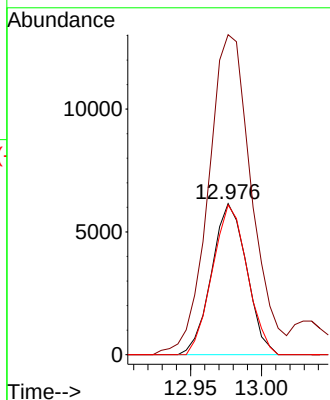
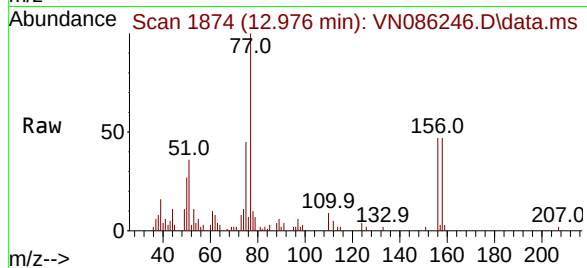
#73
Bromobenzene
Concen: 4.831 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:156 Resp: 1052
Ion Ratio Lower Upper
156 100
77 261.1 0.0 505.2
158 98.7 0.0 195.0

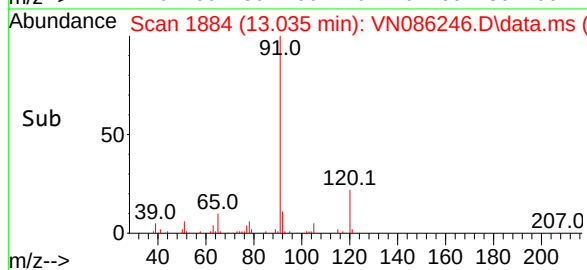
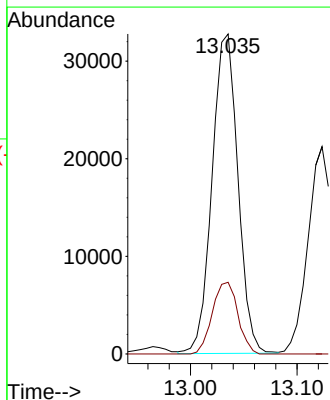
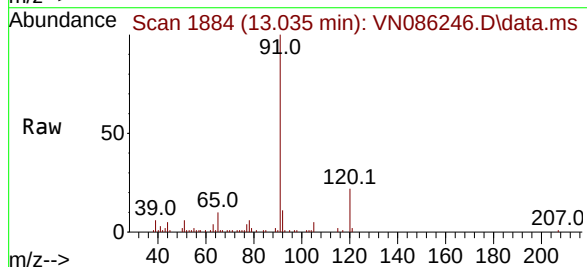
Manual Integrations
APPROVED

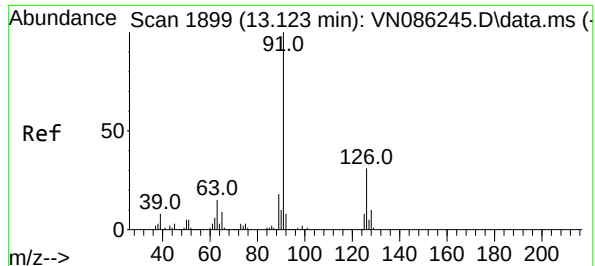
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 4.734 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 91 Resp: 55104
Ion Ratio Lower Upper
91 100
120 22.1 0.0 44.0





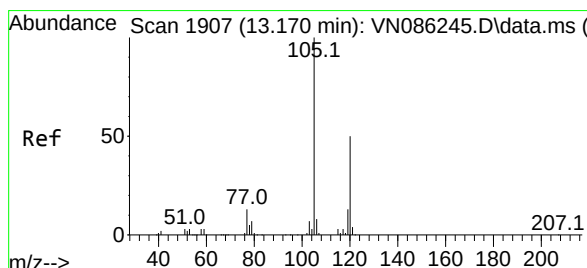
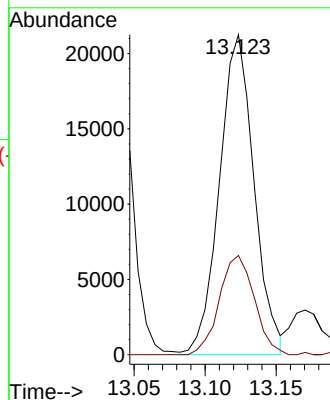
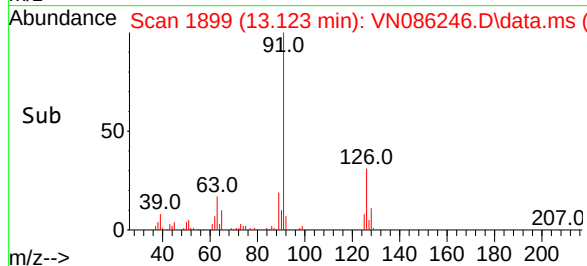
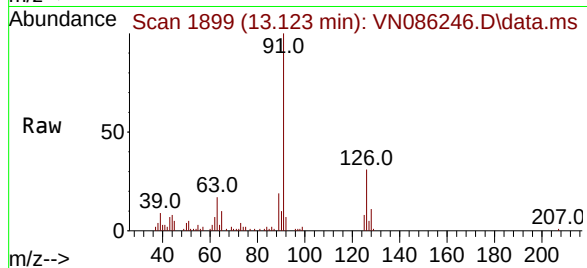
#75
2-Chlorotoluene
Concen: 4.929 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 91 Resp: 35960
Ion Ratio Lower Upper
91 100
126 31.3 0.0 63.4

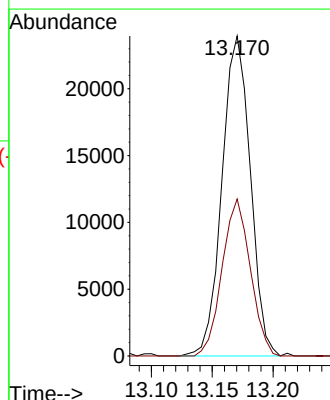
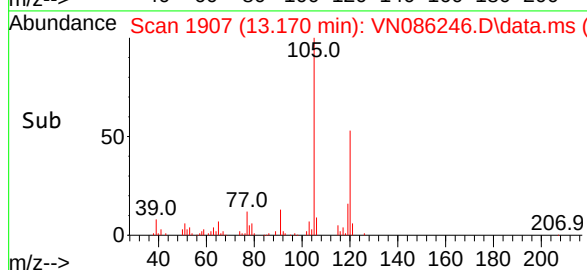
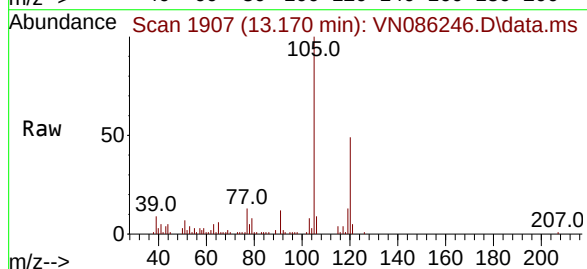
Manual Integrations
APPROVED

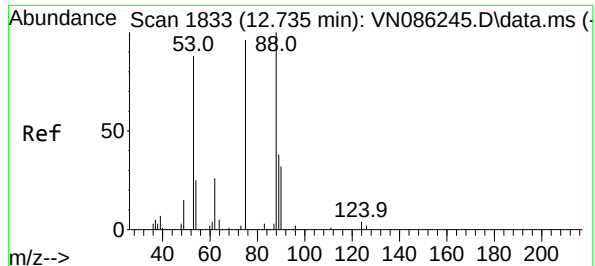
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 4.800 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:105 Resp: 38762
Ion Ratio Lower Upper
105 100
120 48.8 0.0 98.0





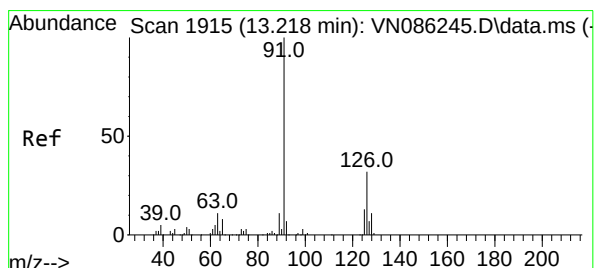
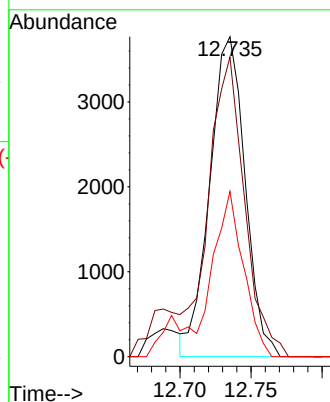
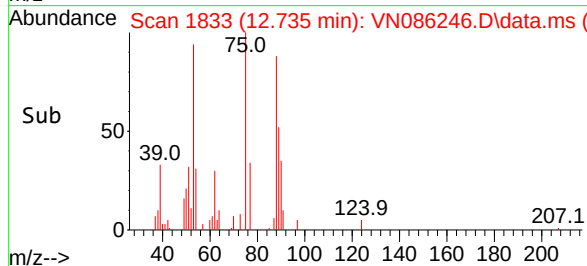
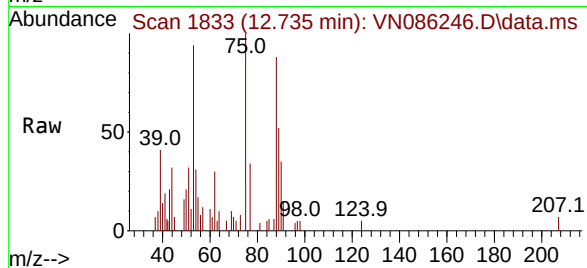
#77
t-1,4-Dichloro-2-butene
Concen: 4.845 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
75	100		
53	89.4	46.4	139.2
89	51.6	22.5	67.5

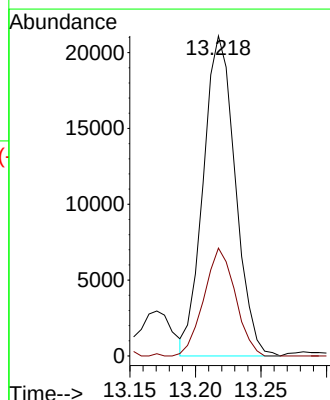
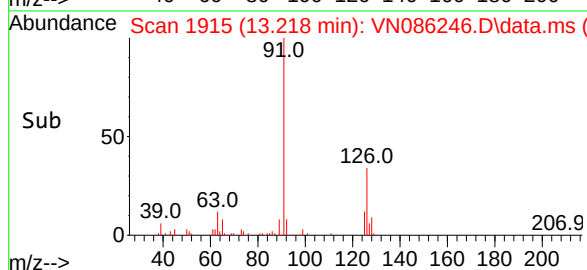
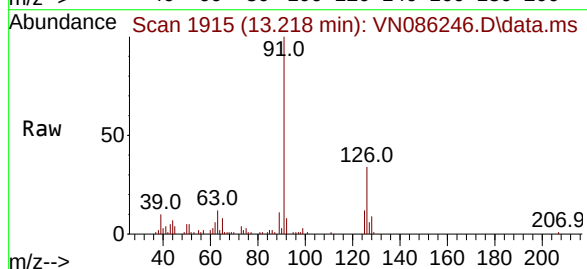
Manual Integrations
APPROVED

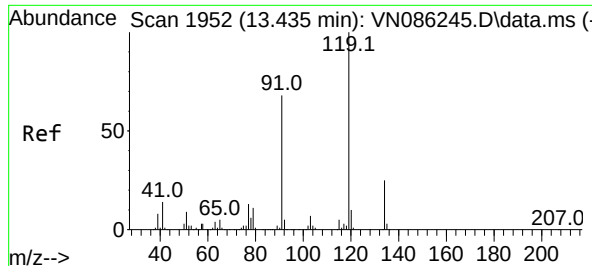
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 4.927 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.0	0.0	63.2





#79

tert-butylbenzene

Concen: 5.092 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

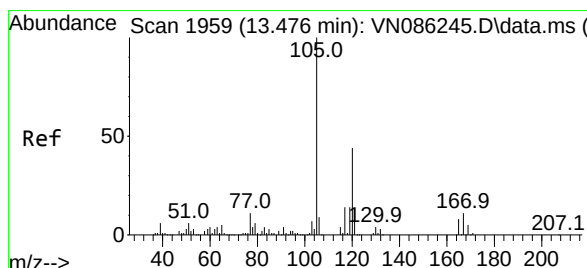
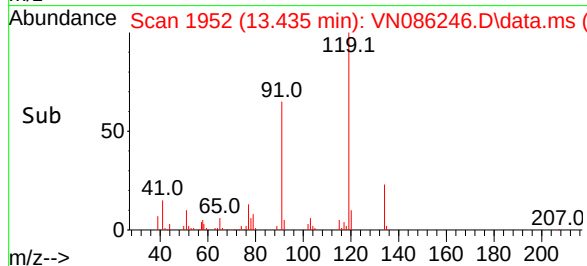
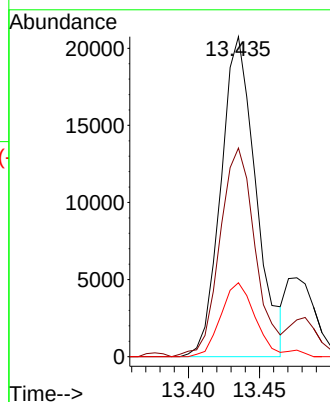
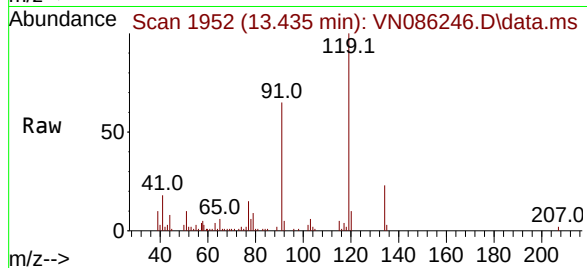
Tgt Ion:	119	Resp:	35578
Ion	Ratio	Lower	Upper
119	100		
91	66.0	0.0	136.6
134	22.4	0.0	49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 4.730 ug/l

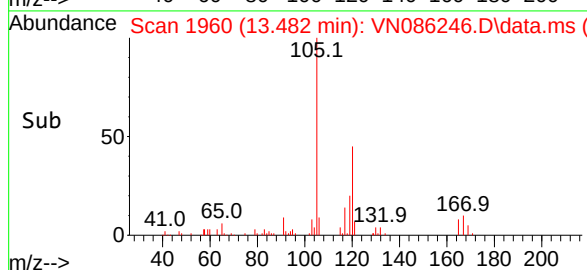
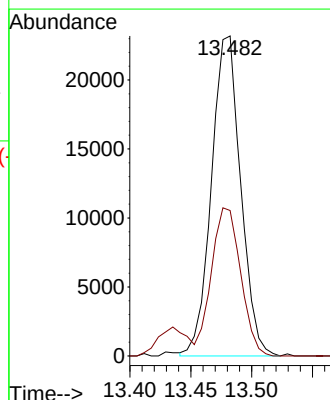
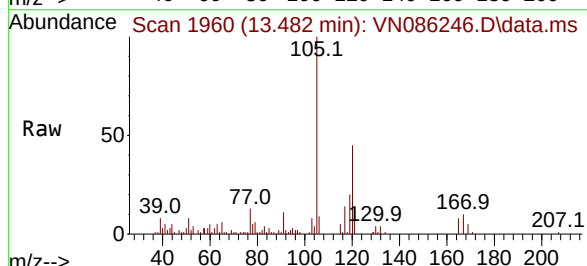
RT: 13.482 min Scan# 1960

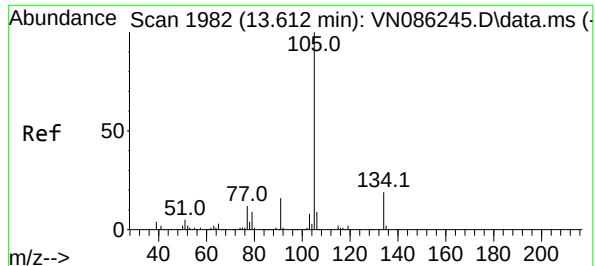
Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	105	Resp:	38730
Ion	Ratio	Lower	Upper
105	100		
120	46.3	0.0	91.0





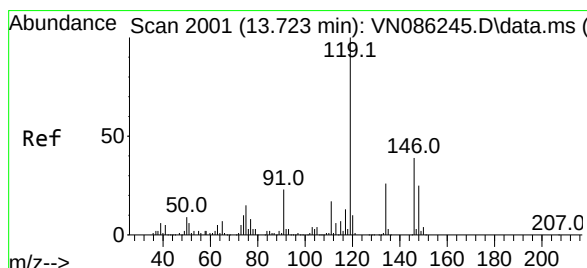
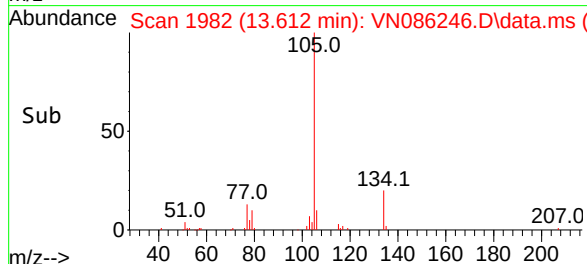
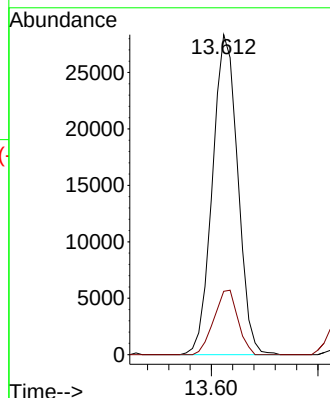
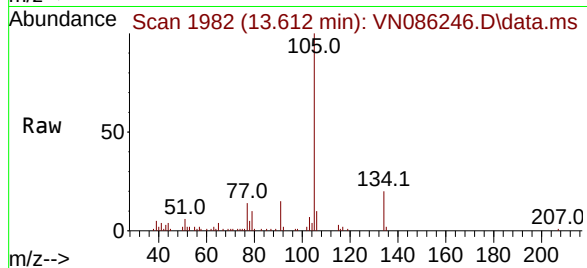
#81
 sec-Butylbenzene
 Concen: 4.798 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tgt Ion:105 Resp: 4676
 Ion Ratio Lower Upper
 105 100
 134 19.1 0.0 38.6

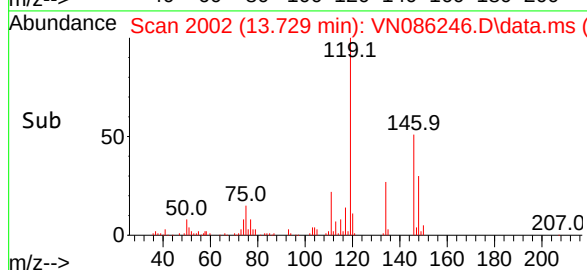
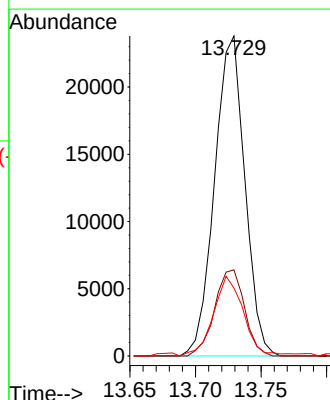
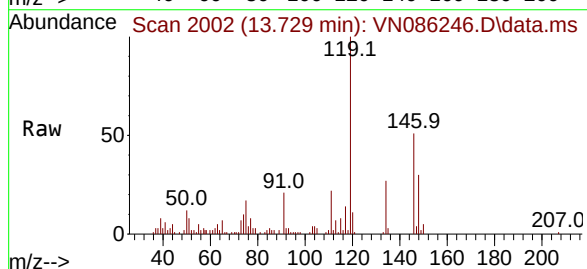
Manual Integrations
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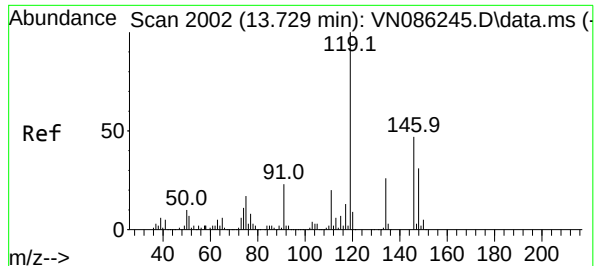
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#82
 p-Isopropyltoluene
 Concen: 4.692 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion:119 Resp: 38146
 Ion Ratio Lower Upper
 119 100
 134 26.6 0.0 51.6
 91 24.5 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 4.818 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 1950

Ion Ratio Lower Upper

146 100

111 45.8 21.7 65.1

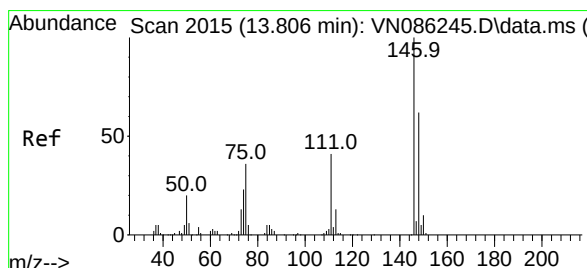
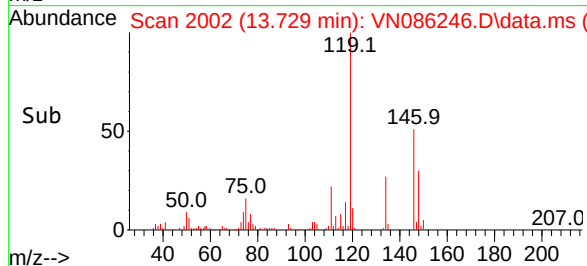
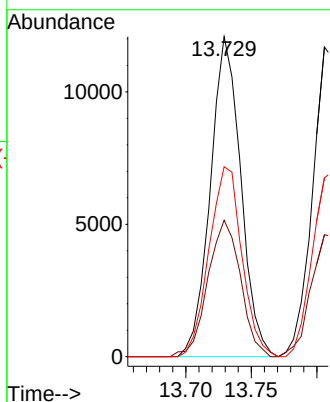
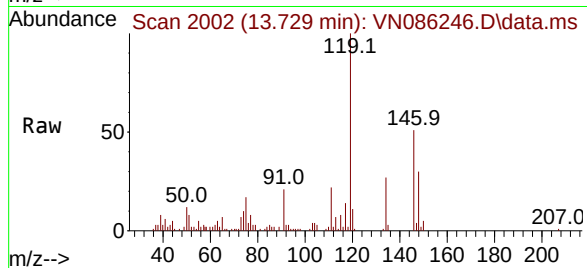
148 64.0 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 4.888 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

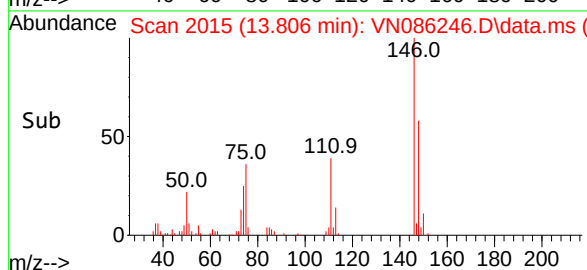
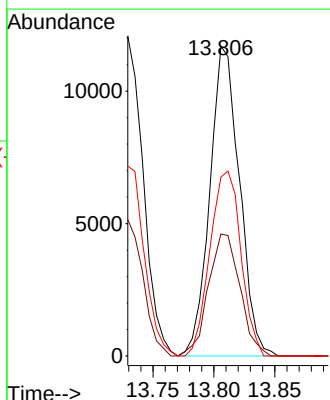
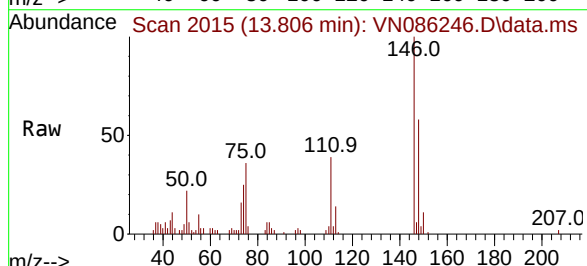
Tgt Ion:146 Resp: 19847

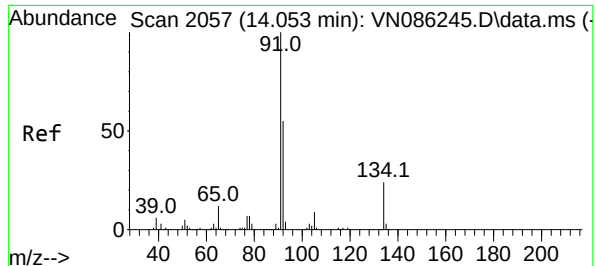
Ion Ratio Lower Upper

146 100

111 41.9 20.8 62.4

148 62.3 31.9 95.5





#85

n-Butylbenzene

Concen: 4.716 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

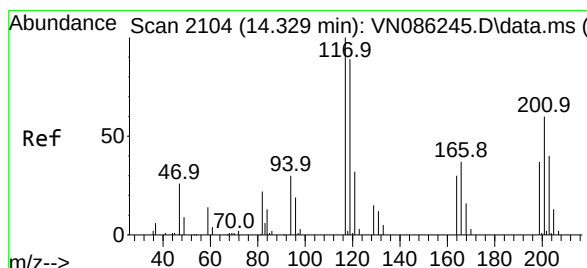
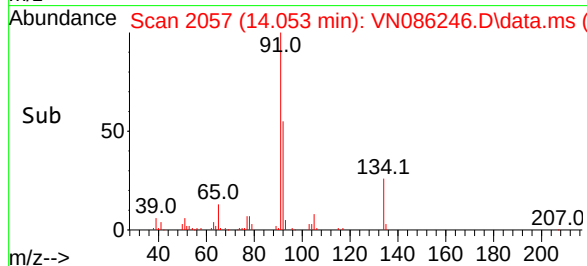
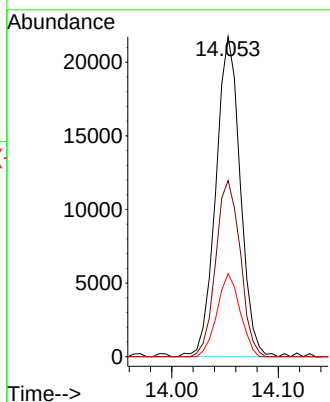
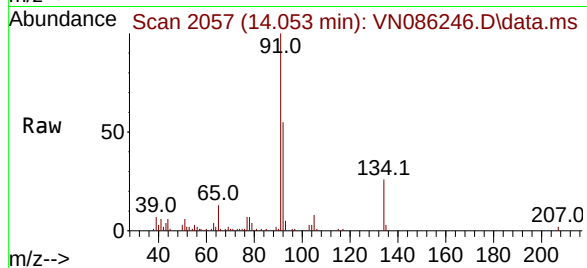
Tgt Ion:	91	Resp:	3459
Ion	Ratio	Lower	Upper
91	100		
92	55.3	0.0	109.4
134	24.5	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 4.714 ug/l

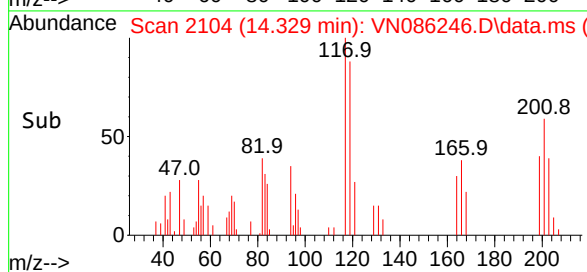
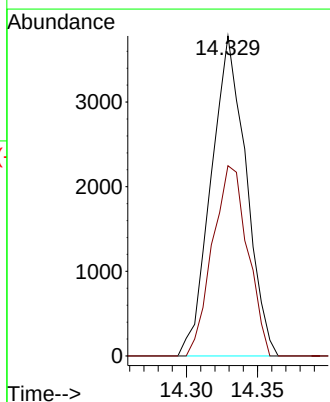
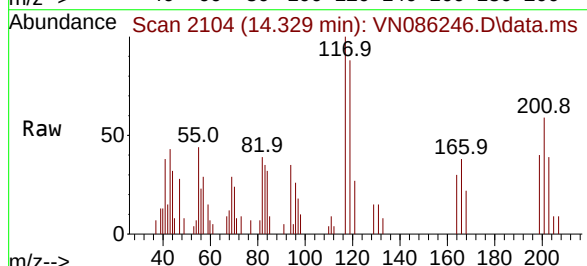
RT: 14.329 min Scan# 2104

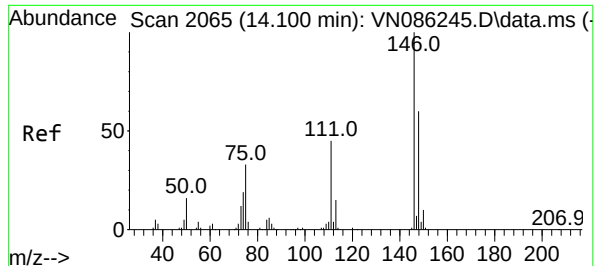
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	117	Resp:	6465
Ion	Ratio	Lower	Upper
117	100		
201	59.8	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 4.834 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

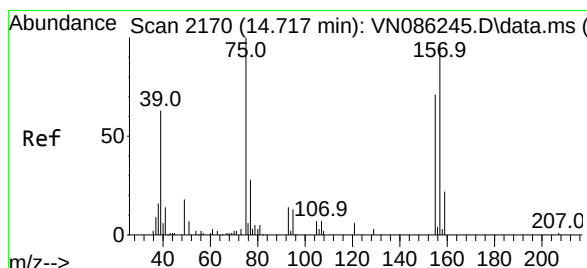
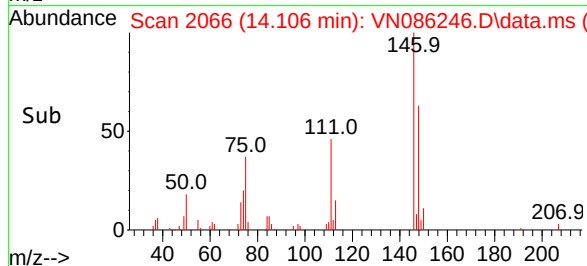
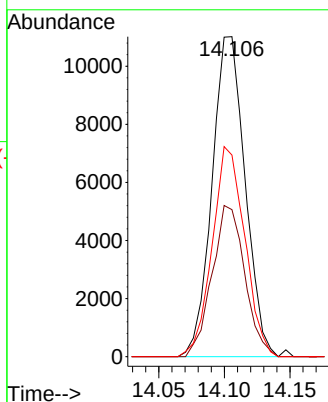
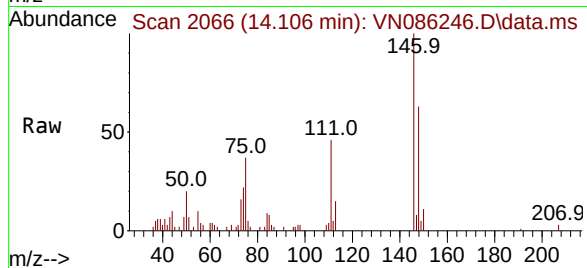
Tgt Ion:	146	Resp:	19310
Ion	Ratio	Lower	Upper
146	100		
111	46.7	22.7	68.0
148	64.6	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.946 ug/l

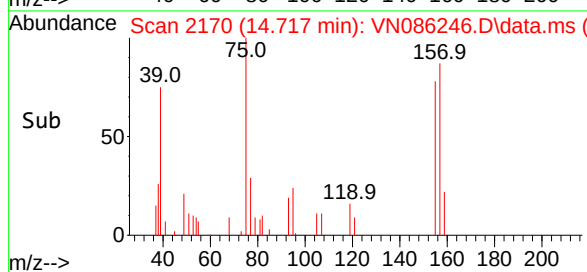
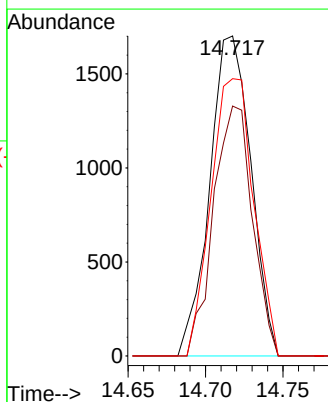
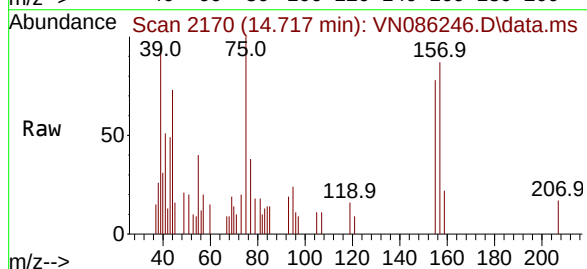
RT: 14.717 min Scan# 2170

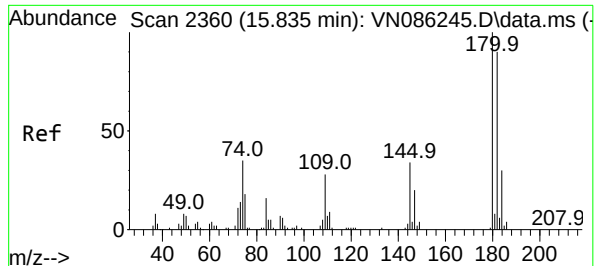
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	75	Resp:	3152
Ion	Ratio	Lower	Upper
75	100		
155	73.8	60.3	90.5
157	89.7	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 4.778 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

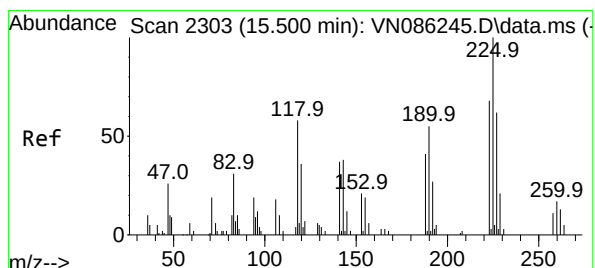
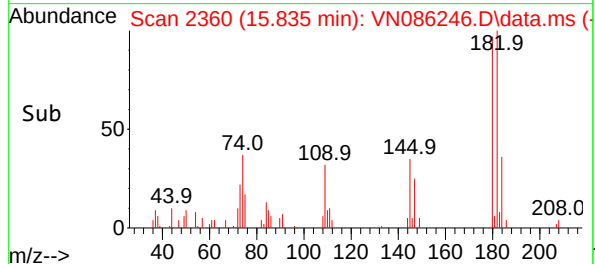
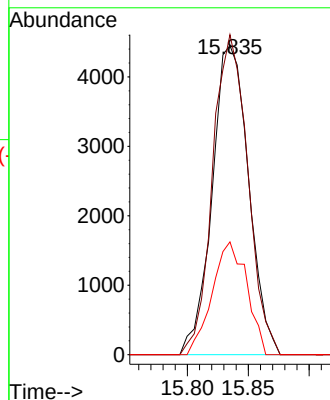
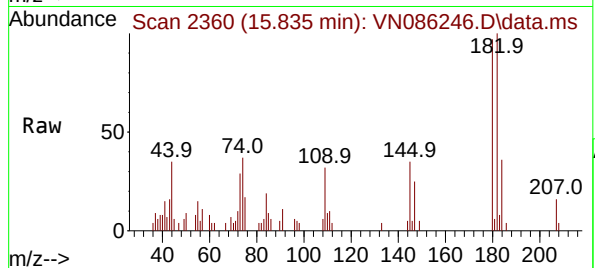
VSTDIC005

Tgt Ion:	180	Resp:	929
Ion Ratio	Lower	Upper	
180	100		
182	99.7	75.1	112.7
145	34.6	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 5.639 ug/l

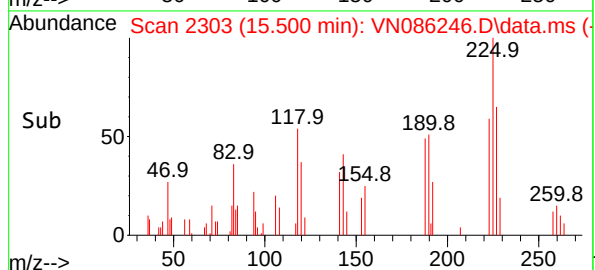
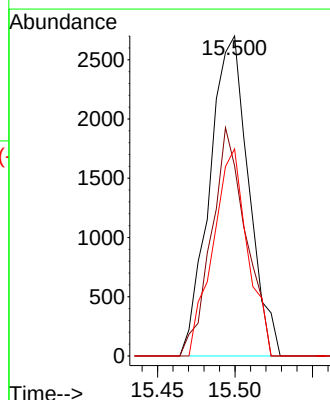
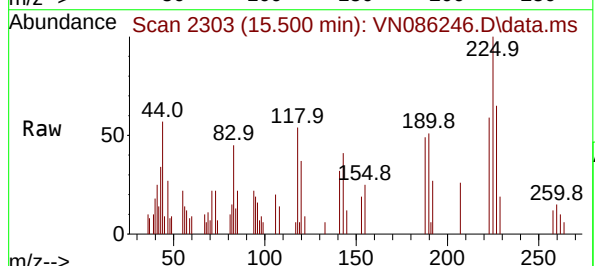
RT: 15.500 min Scan# 2303

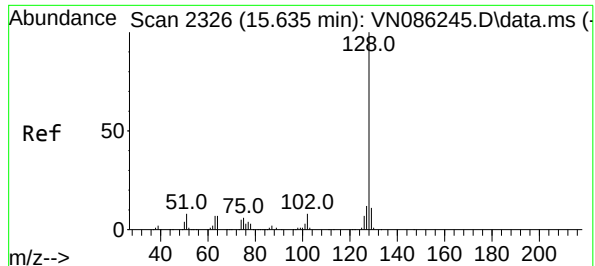
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	225	Resp:	4734
Ion Ratio	Lower	Upper	
225	100		
223	62.9	0.0	130.0
227	57.5	0.0	123.2





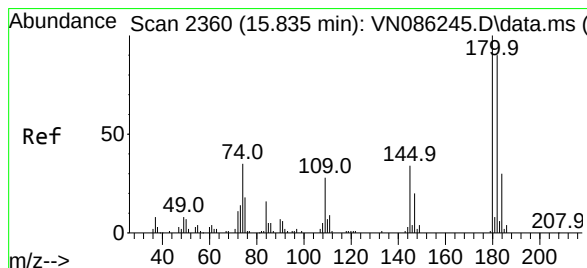
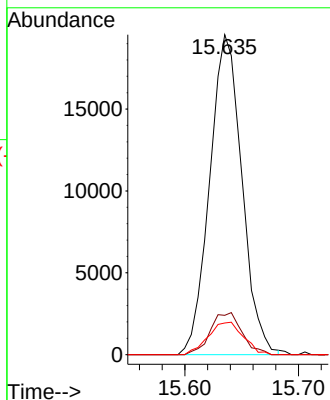
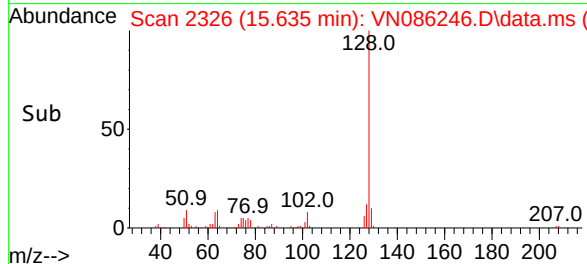
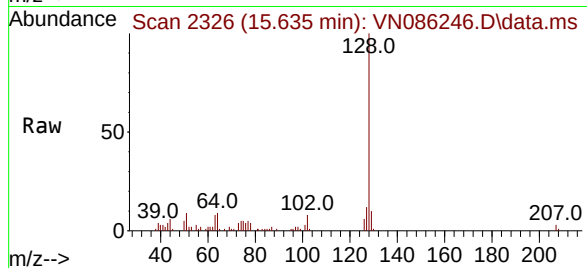
#91
Naphthalene
Concen: 5.026 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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

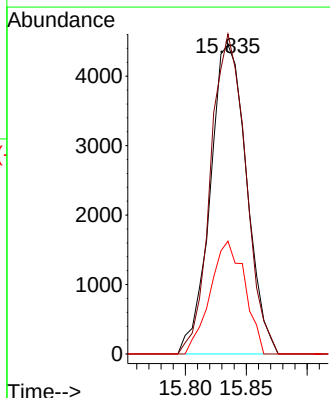
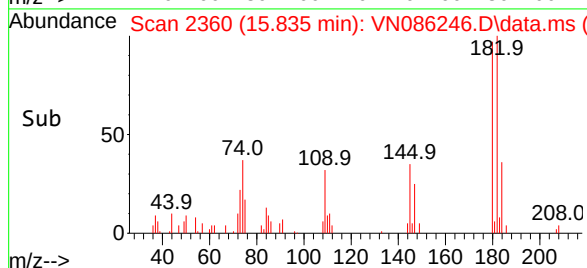
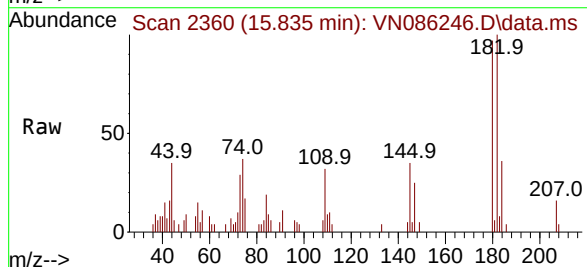
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 4.778 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.7	0.0	187.8
145	34.6	0.0	67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31045	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	187987	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	165721	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90166	29.777	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.847	95	97275	29.482	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.267%		
63) Toluene-d8	10.565	98	279650	29.890	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.633%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53635	21.563	ug/l	100
3) Chloromethane	2.359	50	69535	20.226	ug/l	100
4) Vinyl Chloride	2.518	62	66222	20.223	ug/l	99
5) Bromomethane	2.965	94	32967	20.183	ug/l	98
6) Chloroethane	3.124	64	42684	20.642	ug/l	99
7) Trichlorofluoromethane	3.501	101	72724	20.473	ug/l	99
8) Diethyl Ether	3.959	74	33215	20.276	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	43944	20.062	ug/l	99
10) 1,1-Dichloroethene	4.348	96	47582	20.128	ug/l	99
11) Methyl Iodide	4.589	142	54740	20.148	ug/l	97
12) Methyl Acetate	5.024	43	64185	19.227	ug/l	98
13) Acrolein	4.177	56	33914	89.375	ug/l	98
14) Acrylonitrile	5.718	53	135274	95.988	ug/l	97
15) Acetone	4.424	58	33542	93.868	ug/l	92
16) Carbon Disulfide	4.712	76	138661	20.456	ug/l	100
17) Allyl chloride	5.024	41	85704	20.801	ug/l	98
18) Methylene Chloride	5.277	84	54353	20.166	ug/l	99
19) trans-1,2-Dichloroethene	5.789	96	48899	19.638	ug/l	96
20) Diisopropyl ether	6.665	45	183254	20.688	ug/l	99
21) 1,1-Dichloroethane	6.565	63	97247	20.578	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	59840	20.174	ug/l	98
23) tert-Butyl Alcohol	5.512	59	56480	96.723	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	172426	20.211	ug/l	98
25) Chloroform	7.965	83	93183	20.677	ug/l	100
26) Cyclohexane	8.253	56	88041	19.913	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	68608	20.373	ug/l	99
30) 2-Butanone	7.483	43	184728	98.995	ug/l	99
31) 2,2-Dichloropropane	7.489	77	87512	21.111	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	77645	20.044	ug/l	100
33) Carbon Tetrachloride	8.359	117	63029	20.360	ug/l	99
34) Benzene	8.600	78	219862	20.522	ug/l #	95
35) Methacrylonitrile	7.777	41	41577	19.764	ug/l	99
36) 1,2-Dichloroethane	8.671	62	68362	20.391	ug/l	100
37) Trichloroethene	9.353	130	51292	19.842	ug/l	94
38) Methylcyclohexane	9.594	83	83168	20.137	ug/l	98
39) 1,2-Dichloropropane	9.618	63	55116	20.675	ug/l	97
40) Dibromomethane	9.706	93	33887	19.681	ug/l	98
41) Bromodichloromethane	9.882	83	75048	20.289	ug/l	99
42) Vinyl Acetate	6.600	43	657878	103.572	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	75482	20.054	ug/l	98
44) Isopropyl Acetate	8.683	43	141640	20.285	ug/l	99
45) 1,4-Dioxane	9.694	88	20541	369.952	ug/l #	92
46) Methyl methacrylate	9.677	41	61396	19.956	ug/l	97
47) n-amyl Acetate	12.488	43	108446	19.589	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	84428	20.190	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	91089	20.581	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47672	19.741	ug/l	97
51) Ethyl methacrylate	10.871	69	90916	20.259	ug/l	95
52) 1,3-Dichloropropane	11.159	76	87015	20.216	ug/l	100
53) Dibromochloromethane	11.359	129	52628	19.923	ug/l	97
54) 1,2-Dibromoethane	11.471	107	48175	19.762	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	225521	132.990	ug/l	100
56) Bromoform	12.576	173	33456	19.359	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	381072	101.329	ug/l	100
59) 2-Hexanone	11.194	43	284098	101.451	ug/l	99
61) Tetrachloroethene	11.100	164	49360	20.169	ug/l	96
62) Toluene	10.630	91	228625	20.568	ug/l	100
64) Chlorobenzene	11.888	112	138700	20.424	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	46048	20.546	ug/l	99
66) Ethyl Benzene	11.959	91	250686	20.336	ug/l	98
67) m/p-Xylenes	12.065	106	186247	40.633	ug/l	100
68) o-Xylene	12.394	106	92550	20.528	ug/l	98
69) Styrene	12.406	104	154208	20.281	ug/l	99
70) Isopropylbenzene	12.694	105	225389	20.275	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	64915	20.516	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	64339m	19.534	ug/l	
73) Bromobenzene	12.976	156	48932	19.870	ug/l	99
74) n-propylbenzene	13.035	91	265507	20.227	ug/l	100
75) 2-Chlorotoluene	13.123	91	164538	19.943	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	185869	20.354	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	29750	19.590	ug/l	93
78) 4-Chlorotoluene	13.218	91	160908	19.528	ug/l	99
79) tert-butylbenzene	13.435	119	158200	20.021	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	185022	19.981	ug/l	99
81) sec-Butylbenzene	13.612	105	222043	20.145	ug/l	99
82) p-Isopropyltoluene	13.729	119	183515	19.959	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	87179	19.047	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	86888	18.923	ug/l	99
85) n-Butylbenzene	14.053	91	164471	19.828	ug/l	99
86) Hexachloroethane	14.329	117	29849	19.245	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	84631	18.727	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13051	18.109	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98
90) Hexachlorobutadiene	15.494	225	16389	17.262	ug/l	99
91) Naphthalene	15.635	128	157404	18.155	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Manual Integrations

APPROVED

Reviewed By : John Carlone 04/14/2025

Supervised By : Mahesh Dadoda 04/14/2025

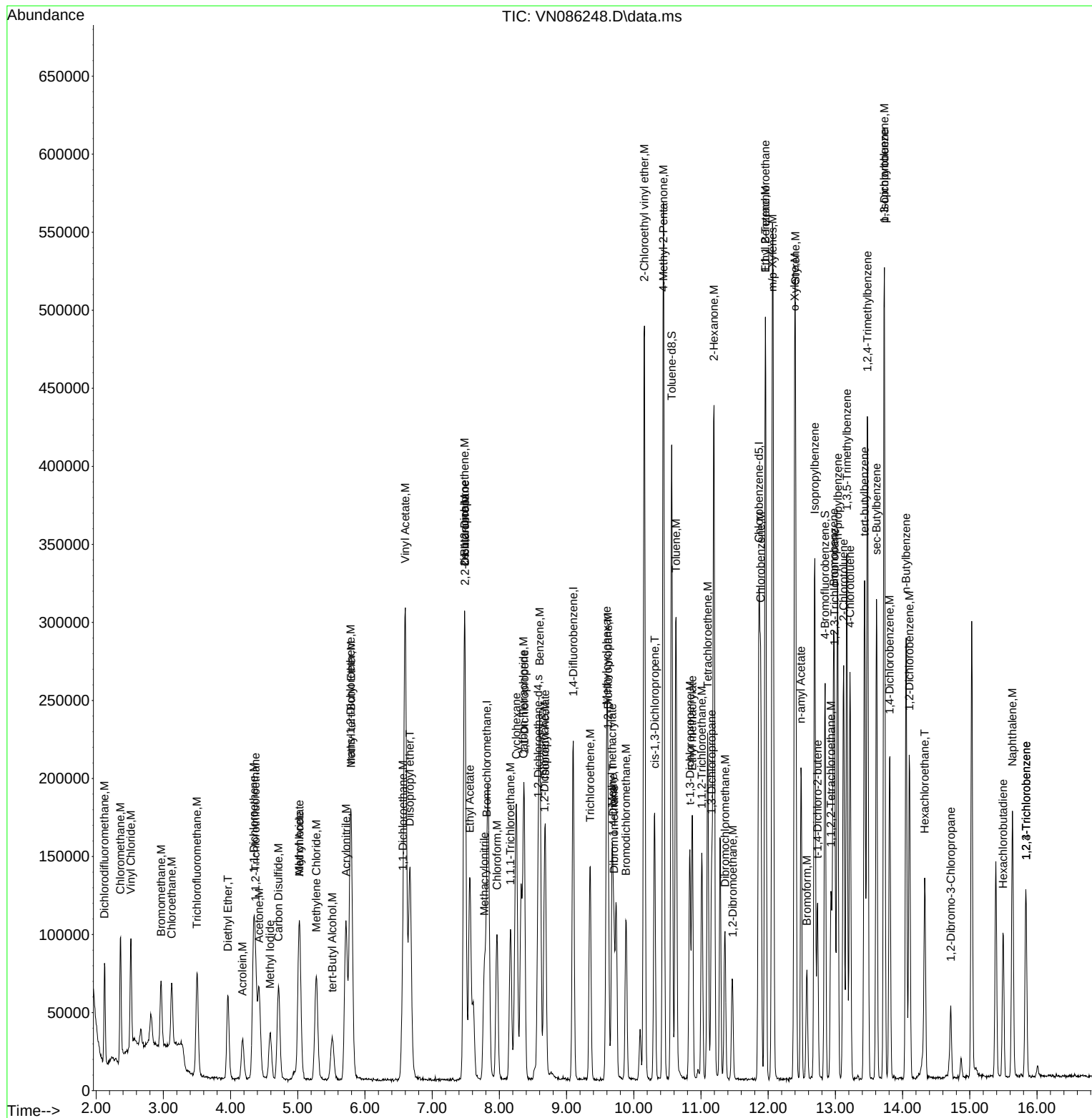
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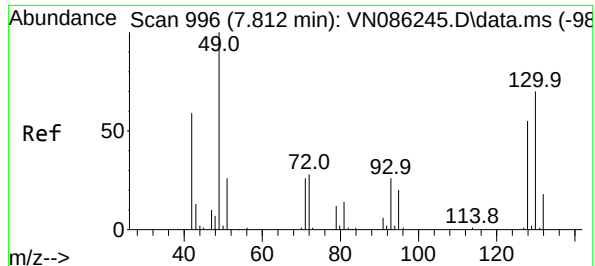
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 01:21:52 2025

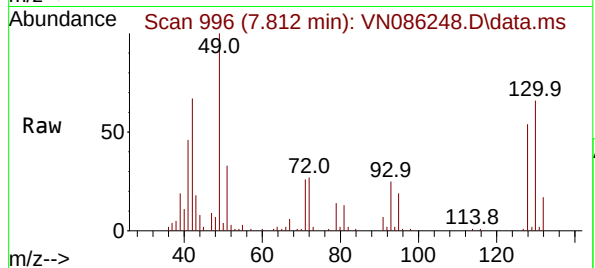
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

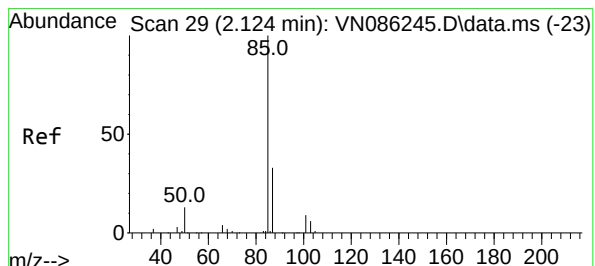
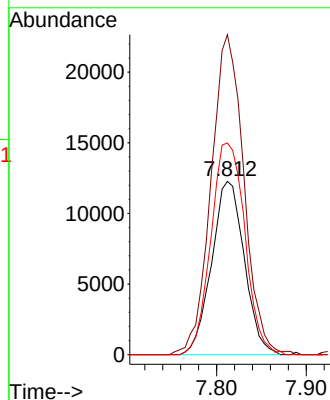
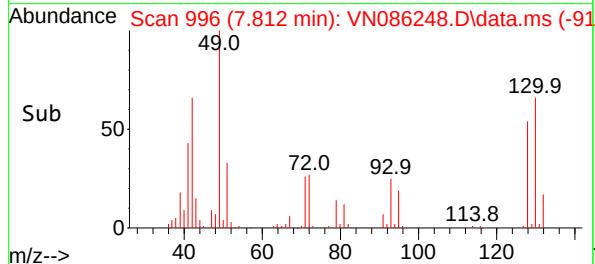
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:128 Resp: 31045
Ion Ratio Lower Upper
128 100
49 184.6 0.0 452.5
130 126.9 0.0 315.0

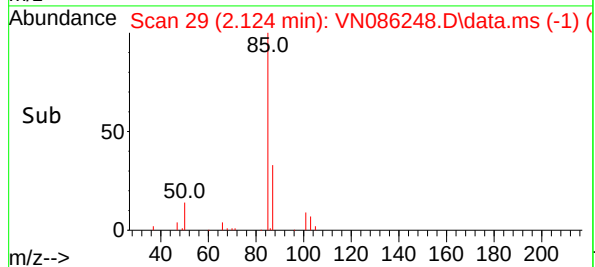
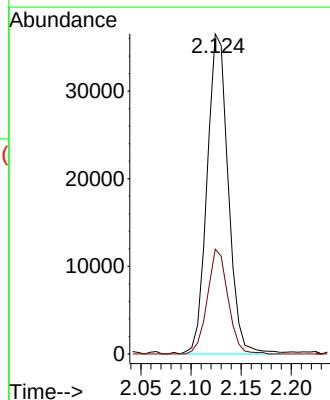
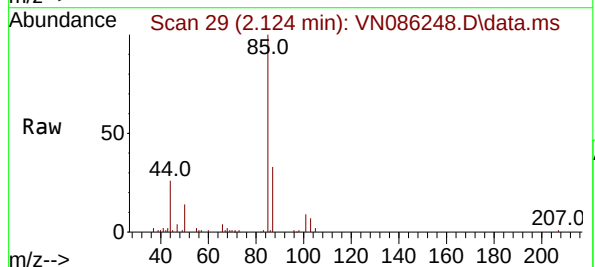
Manual Integrations
APPROVED

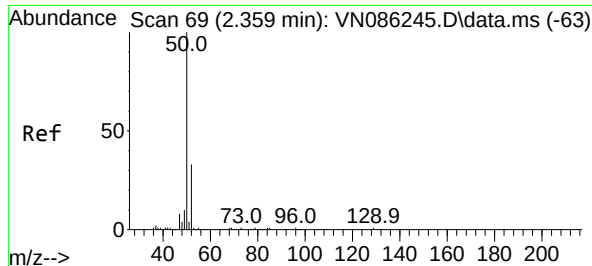
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 21.563 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 85 Resp: 53635
Ion Ratio Lower Upper
85 100
87 32.7 16.3 48.9





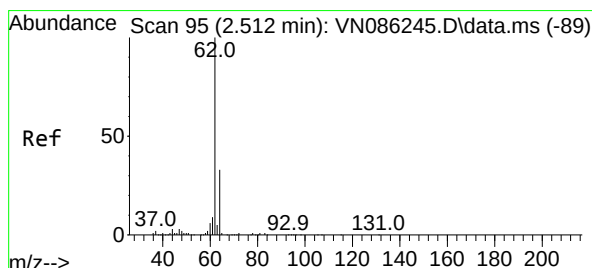
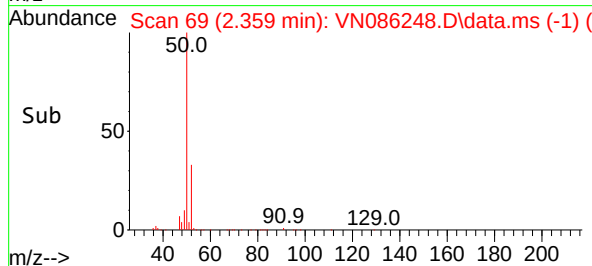
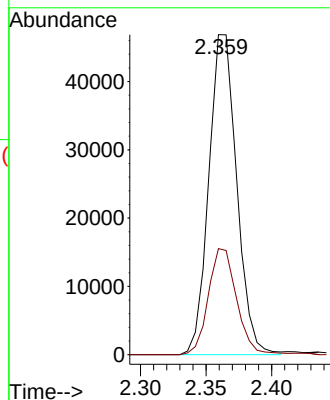
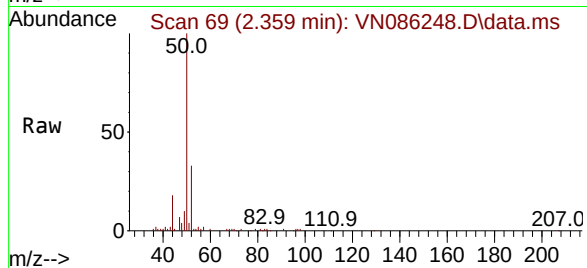
#3
Chloromethane
Concen: 20.226 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 50 Resp: 6953
Ion Ratio Lower Upper
50 100
52 33.2 26.4 39.6

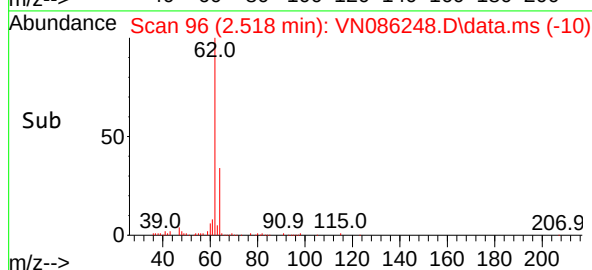
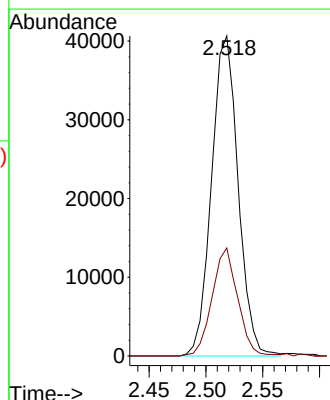
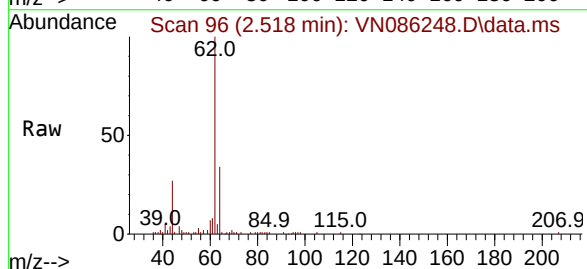
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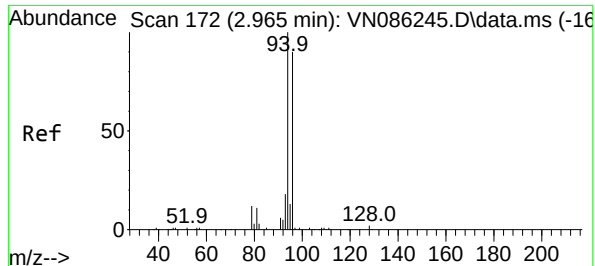
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 20.223 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 62 Resp: 66222
Ion Ratio Lower Upper
62 100
64 33.7 26.3 39.5





#5

Bromomethane

Concen: 20.183 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 94 Resp: 3296

Ion Ratio Lower Upper

94 100

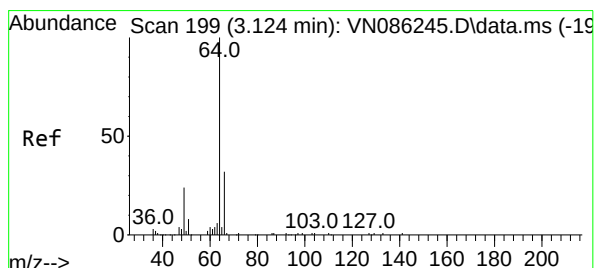
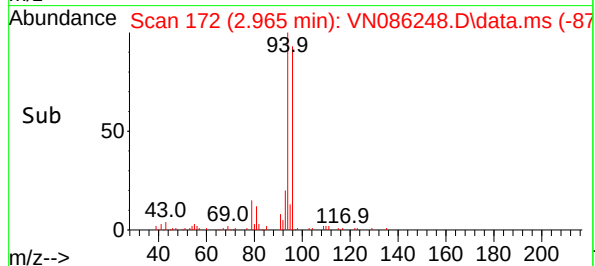
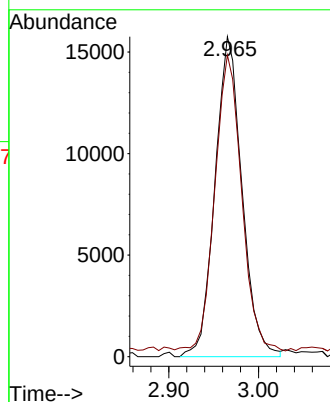
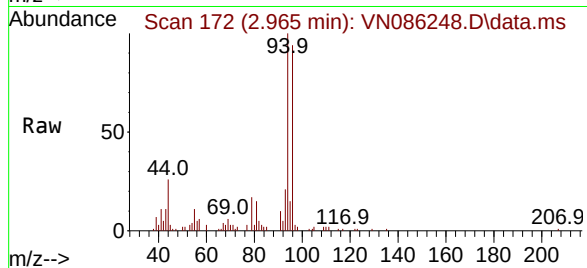
96 91.9 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 20.642 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.000 min

Lab File: VN086248.D

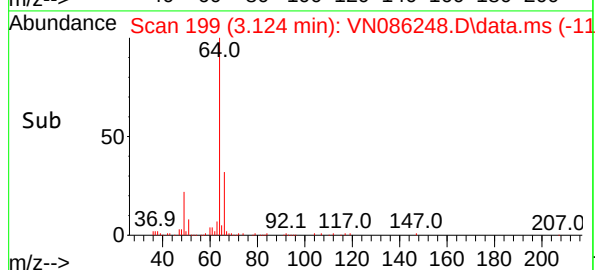
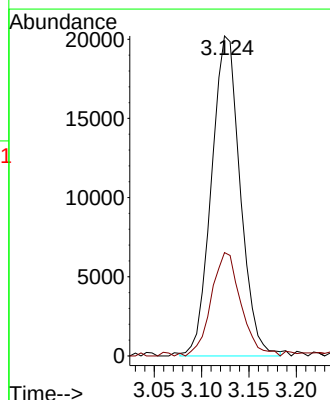
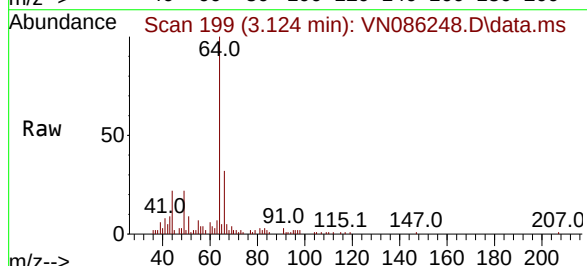
Acq: 11 Apr 2025 13:34

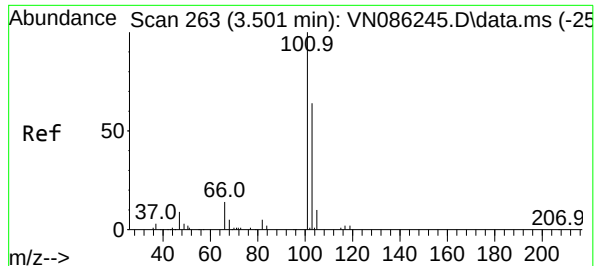
Tgt Ion: 64 Resp: 42684

Ion Ratio Lower Upper

64 100

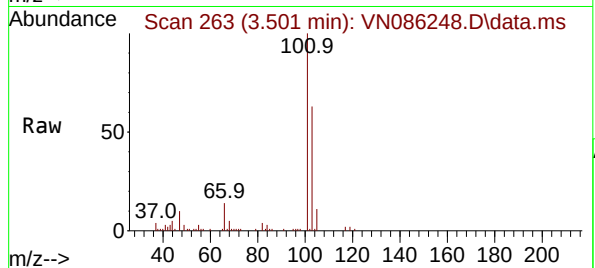
66 32.6 25.7 38.5





#7
Trichlorofluoromethane
Concen: 20.473 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

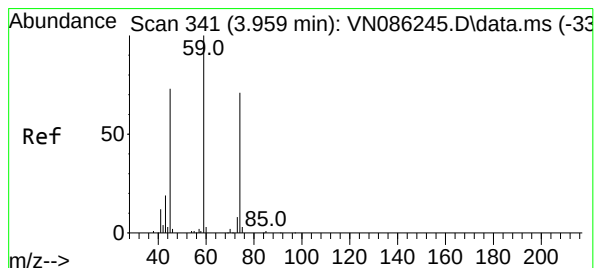
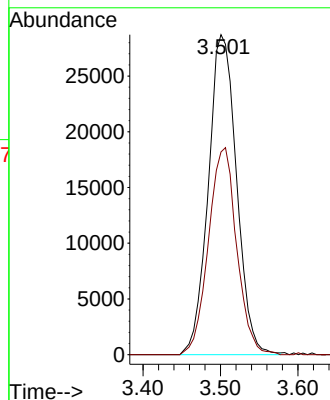
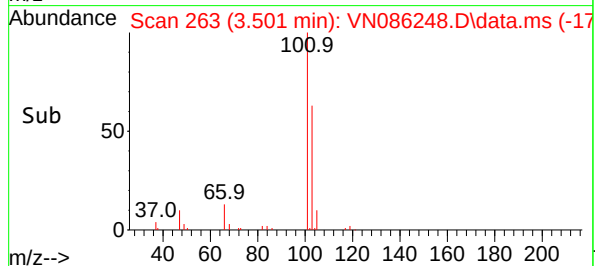
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 101 Resp: 72724
Ion Ratio Lower Upper
101 100
103 63.4 51.2 76.8

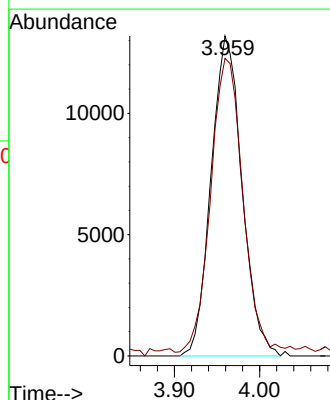
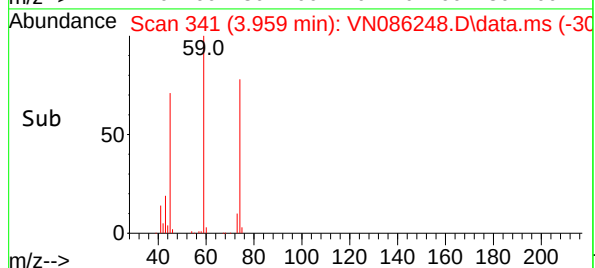
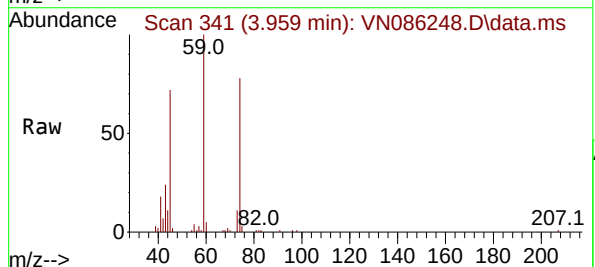
Manual Integrations
APPROVED

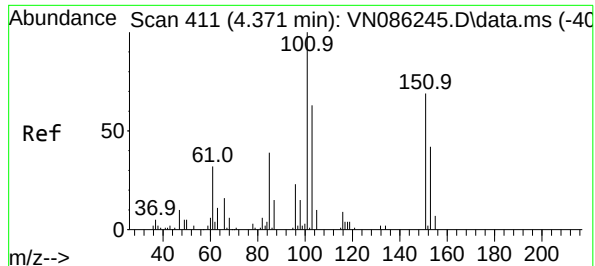
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 20.276 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 74 Resp: 33215
Ion Ratio Lower Upper
74 100
45 96.4 19.2 173.2





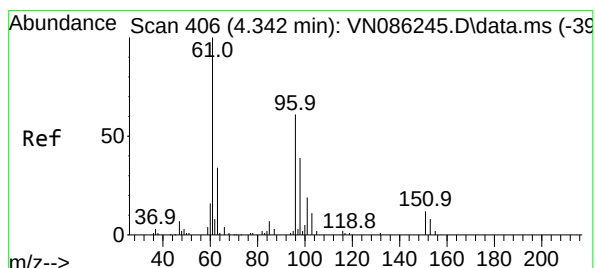
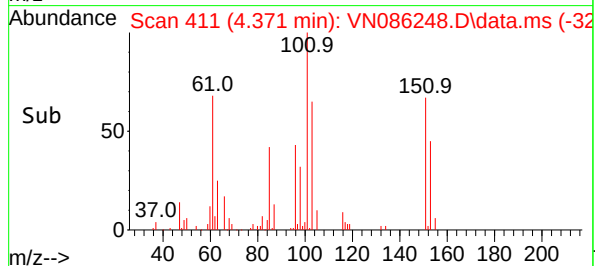
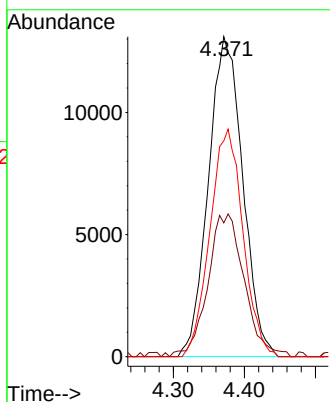
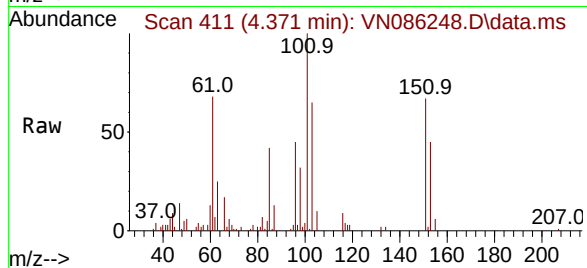
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.062 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:101 Resp: 4394
Ion Ratio Lower Upper
101 100
85 46.6 0.0 93.0
151 68.6 0.0 138.6

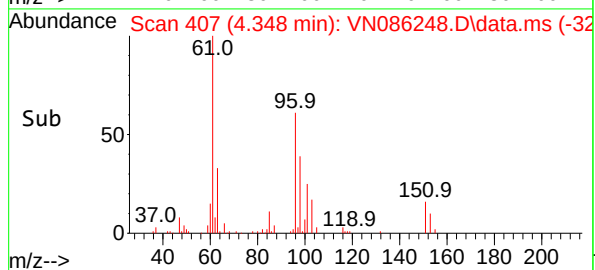
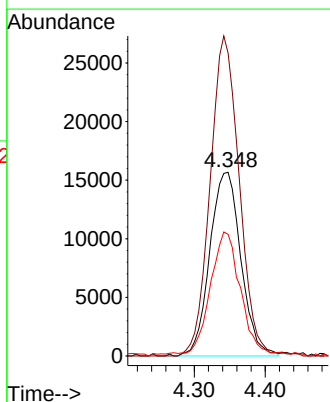
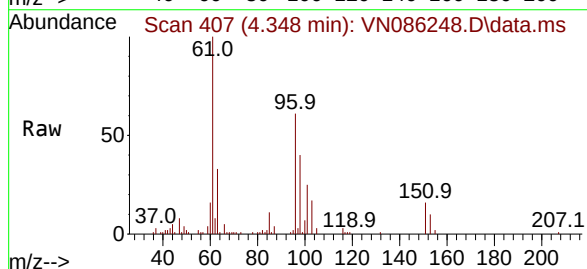
Manual Integrations
APPROVED

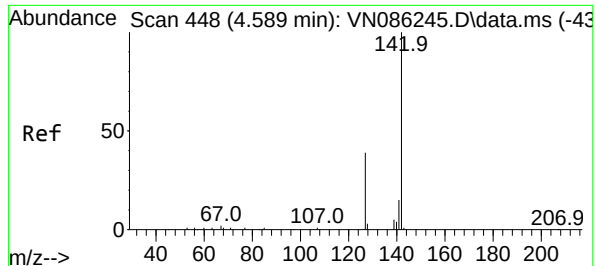
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 20.128 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 96 Resp: 47582
Ion Ratio Lower Upper
96 100
61 164.7 131.1 196.7
98 64.7 51.6 77.4





#11

Methyl Iodide

Concen: 20.148 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

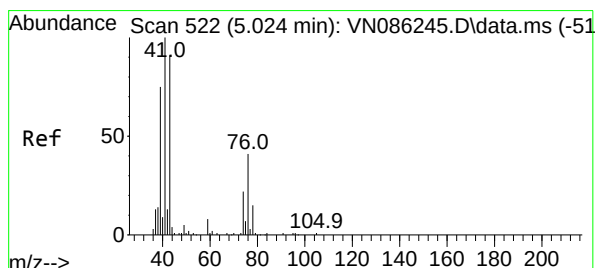
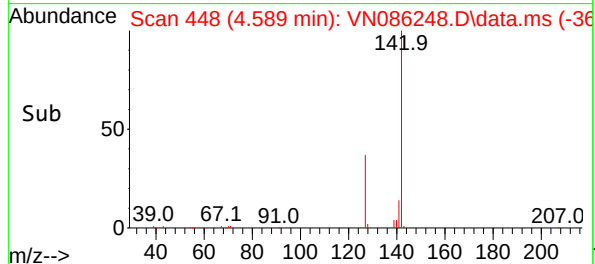
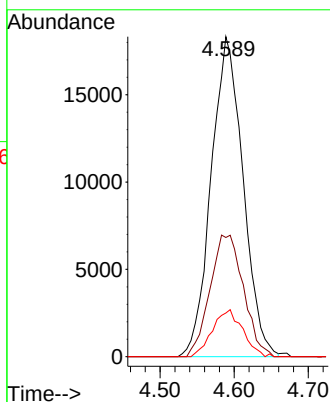
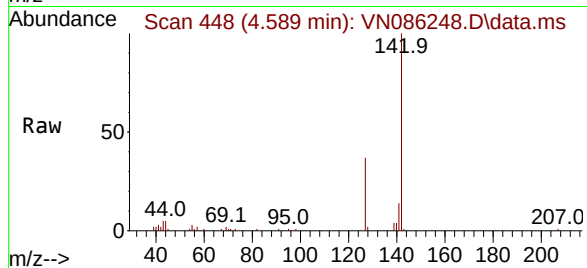
Tgt Ion:	142	Resp:	54740
Ion	Ratio	Lower	Upper
142	100		
127	37.4	19.6	58.8
141	13.7	7.3	21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 19.227 ug/l

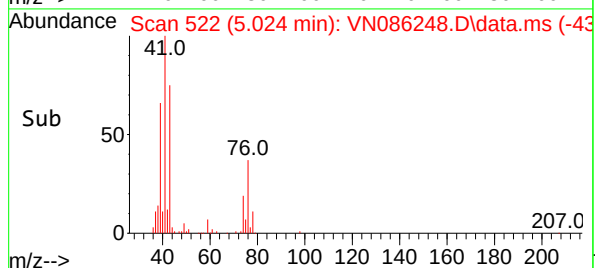
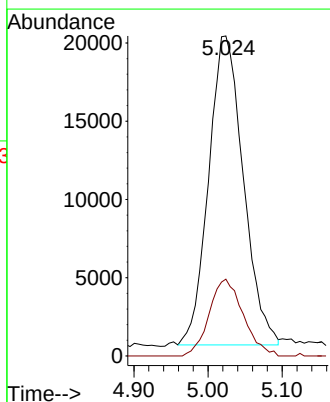
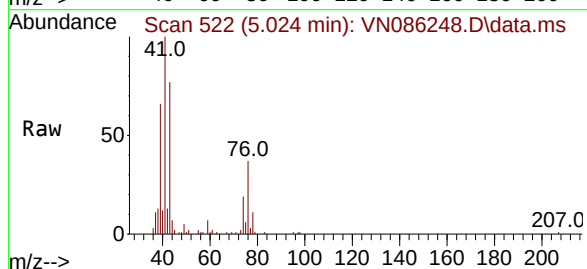
RT: 5.024 min Scan# 522

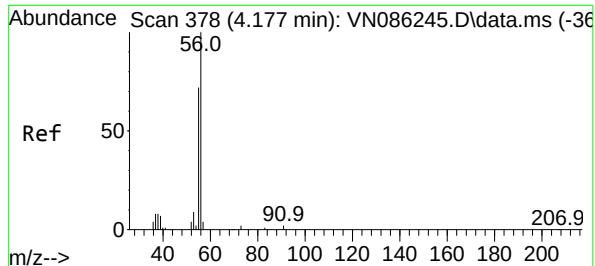
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	43	Resp:	64185
Ion	Ratio	Lower	Upper
43	100		
74	25.1	19.1	28.7





#13

Acrolein

Concen: 89.375 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 56 Resp: 33914

Ion Ratio Lower Upper

56 100

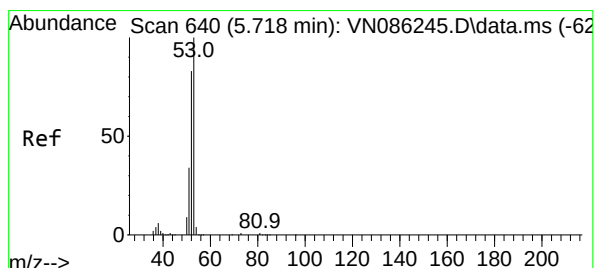
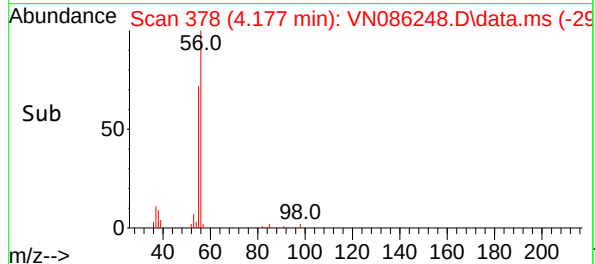
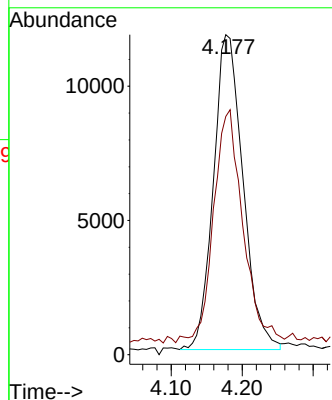
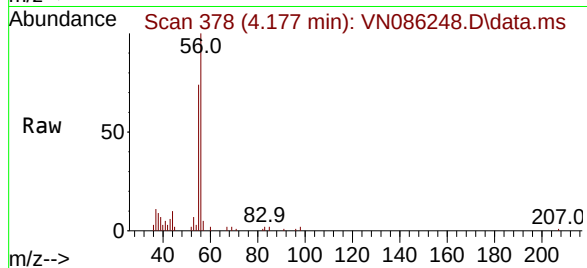
55 71.9 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 95.988 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

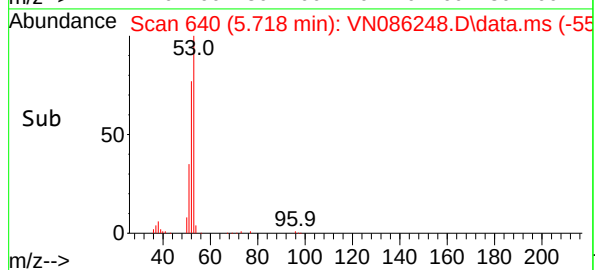
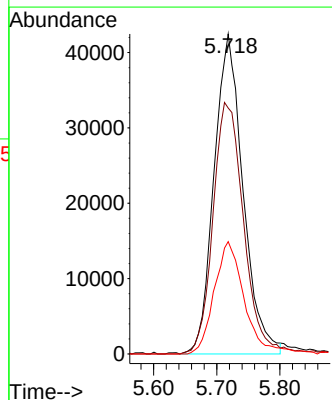
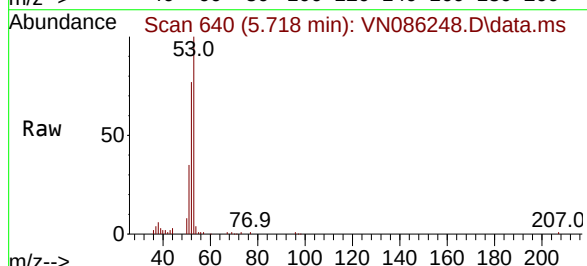
Tgt Ion: 53 Resp: 135274

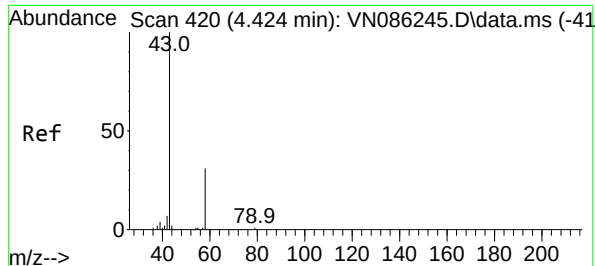
Ion Ratio Lower Upper

53 100

52 83.3 40.2 120.6

51 36.4 17.5 52.6





#15

Acetone

Concen: 93.868 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 58 Resp: 3354

Ion Ratio Lower Upper

58 100

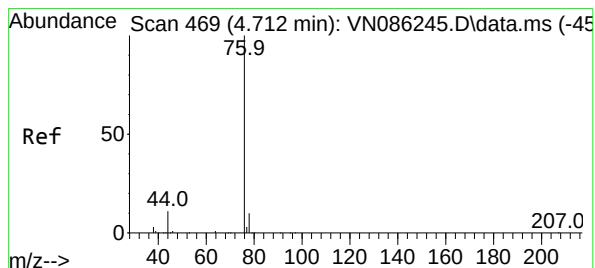
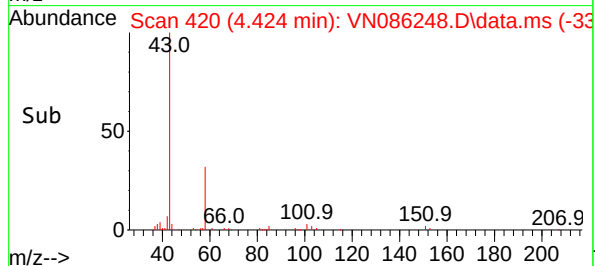
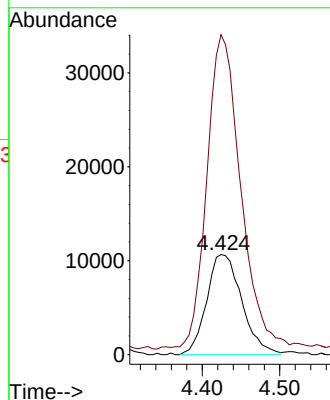
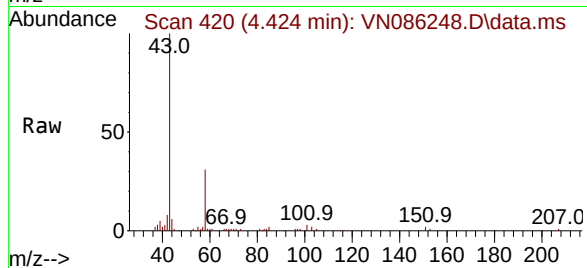
43 311.7 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 20.456 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086248.D

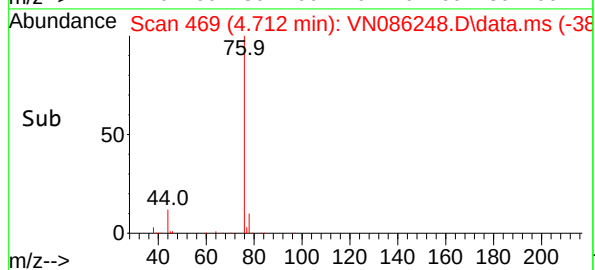
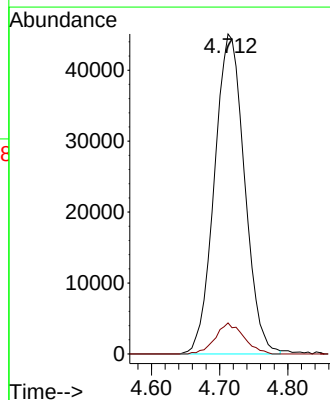
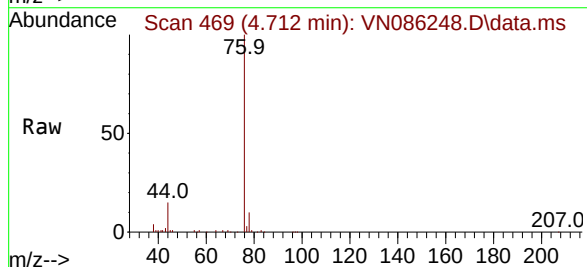
Acq: 11 Apr 2025 13:34

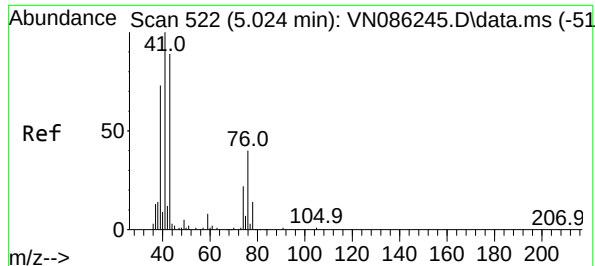
Tgt Ion: 76 Resp: 138661

Ion Ratio Lower Upper

76 100

78 9.7 7.7 11.5





#17

Allyl chloride

Concen: 20.801 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086248.D

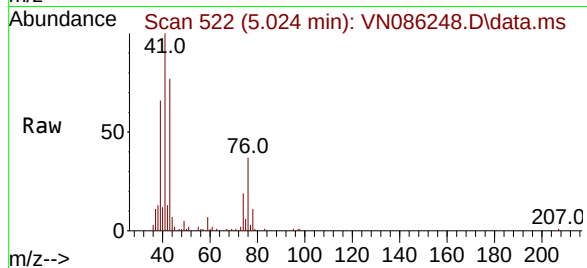
Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

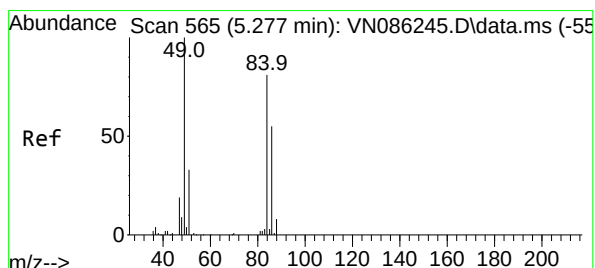
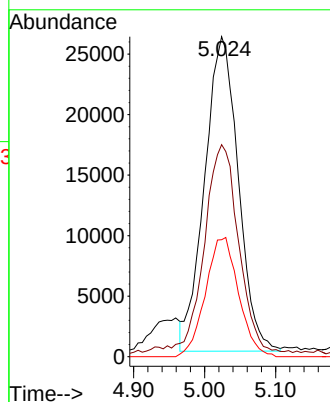
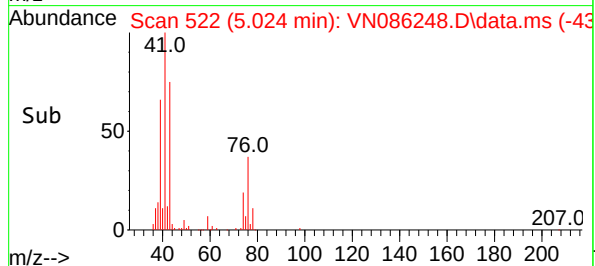
ICVVN041125



Tgt Ion:	41	Resp:	85704
Ion	Ratio	Lower	Upper
41	100		
39	66.3	34.4	103.2
76	37.5	18.8	56.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

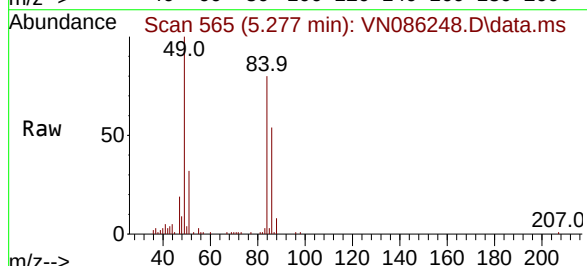
Concen: 20.166 ug/l

RT: 5.277 min Scan# 565

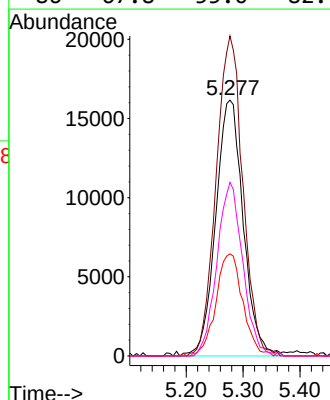
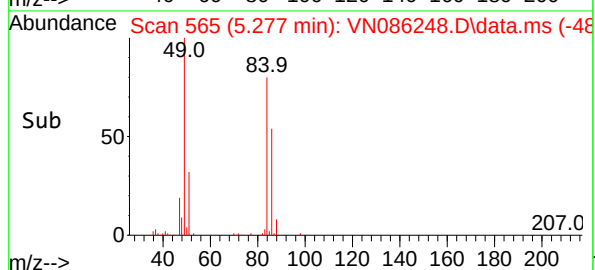
Delta R.T. 0.000 min

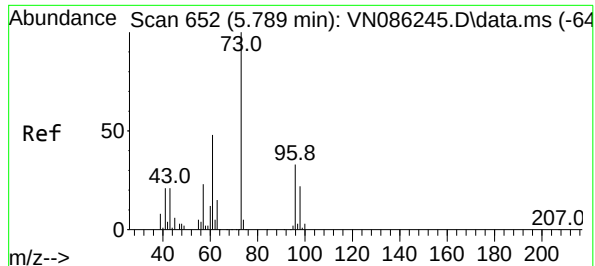
Lab File: VN086248.D

Acq: 11 Apr 2025 13:34



Tgt Ion:	84	Resp:	54353
Ion	Ratio	Lower	Upper
84	100		
49	125.0	99.1	148.7
51	39.9	32.3	48.5
86	67.8	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 19.638 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041125

Tgt Ion: 96 Resp: 4889

Ion Ratio Lower Upper

96 100

61 149.0 115.9 173.9

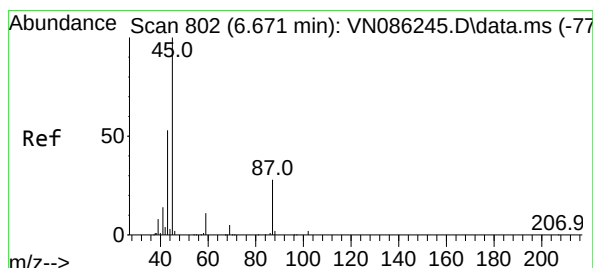
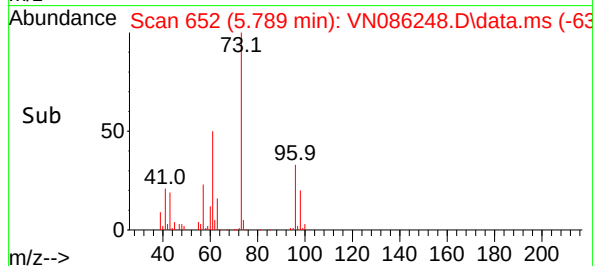
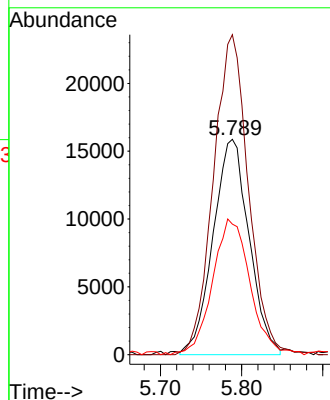
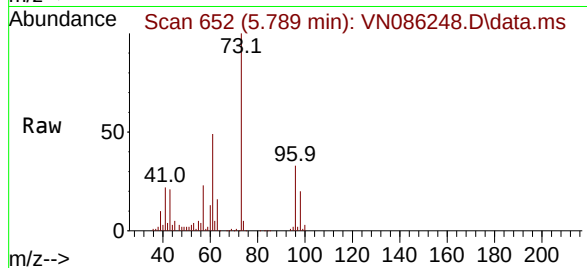
98 60.0 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 20.688 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion: 45 Resp: 183254

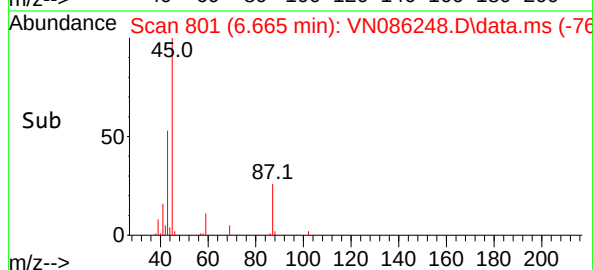
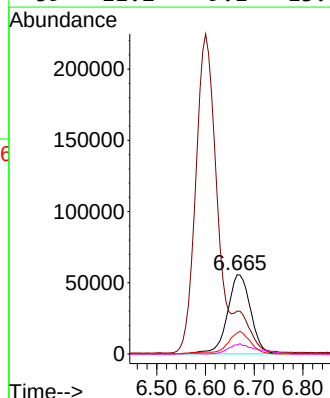
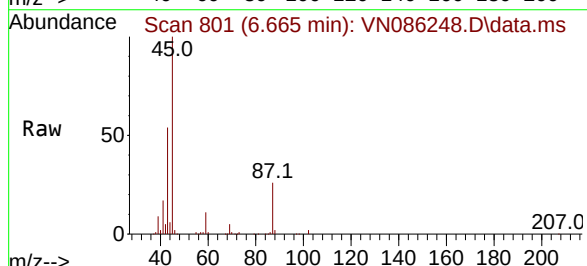
Ion Ratio Lower Upper

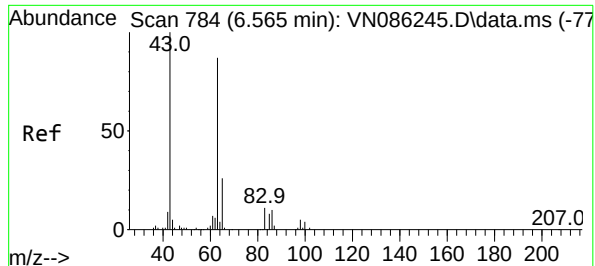
45 100

43 52.3 42.3 63.5

87 26.5 22.2 33.4

59 11.2 9.1 13.7





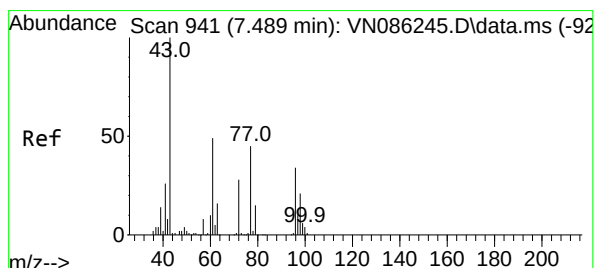
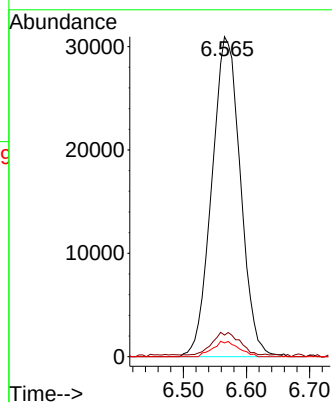
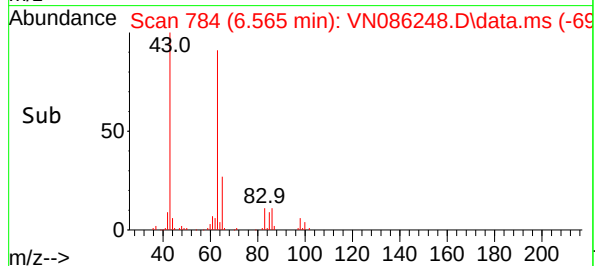
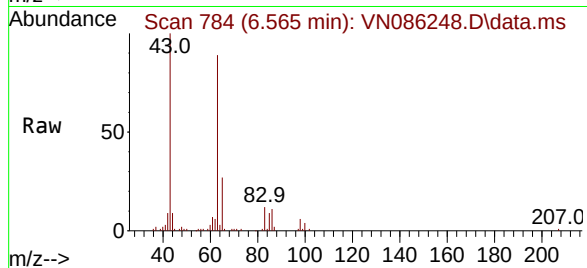
#21
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 63 Resp: 9724
Ion Ratio Lower Upper
63 100
98 6.2 3.1 9.3
100 4.3 2.3 6.9

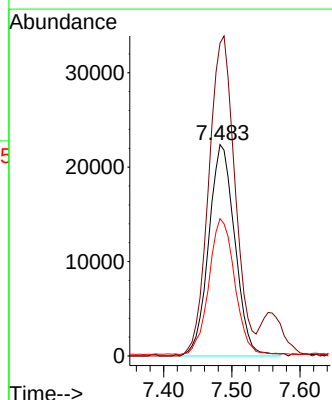
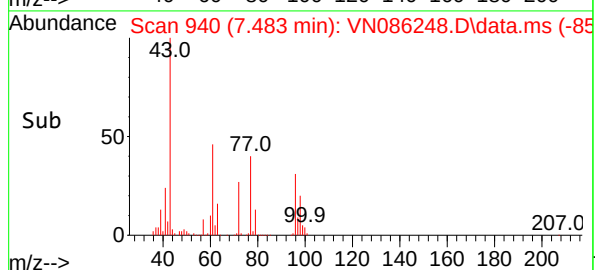
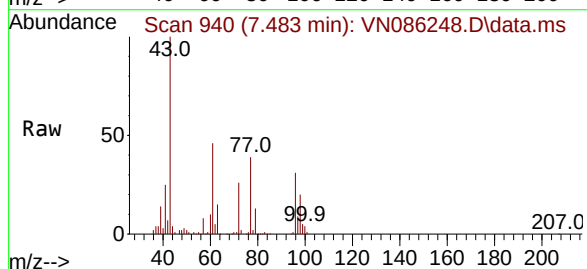
Manual Integrations
APPROVED

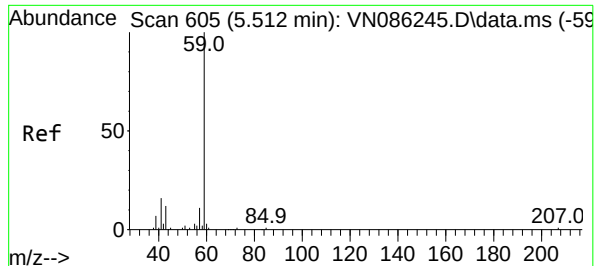
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 20.174 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 96 Resp: 59840
Ion Ratio Lower Upper
96 100
61 152.2 119.5 179.3
98 63.0 51.0 76.6





#23

tert-Butyl Alcohol

Concen: 96.723 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 59 Resp: 56480

Ion Ratio Lower Upper

59 100

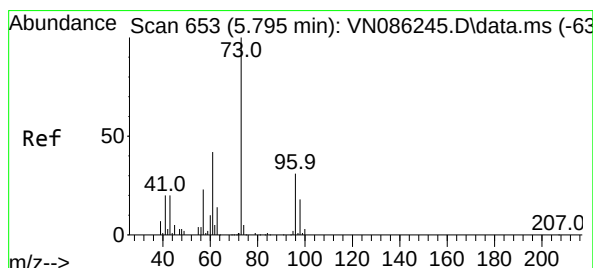
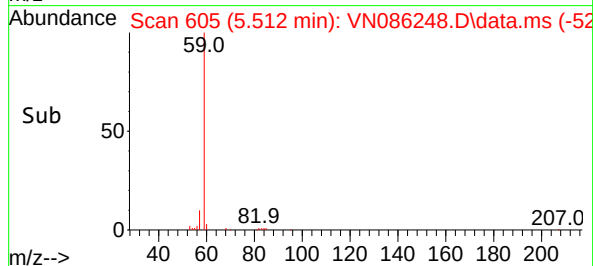
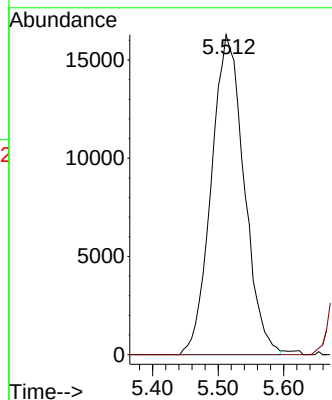
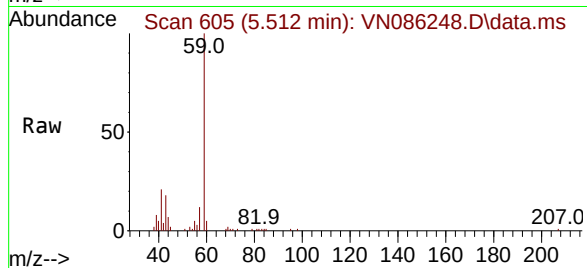
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#24

Methyl tert-Butyl Ether

Concen: 20.211 ug/l

RT: 5.795 min Scan# 653

Delta R.T. 0.000 min

Lab File: VN086248.D

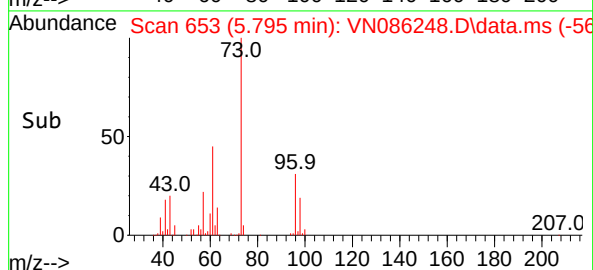
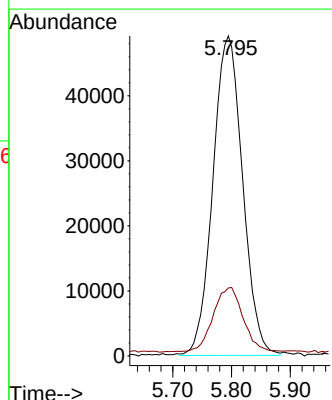
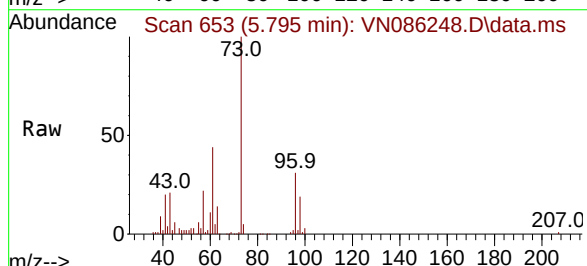
Acq: 11 Apr 2025 13:34

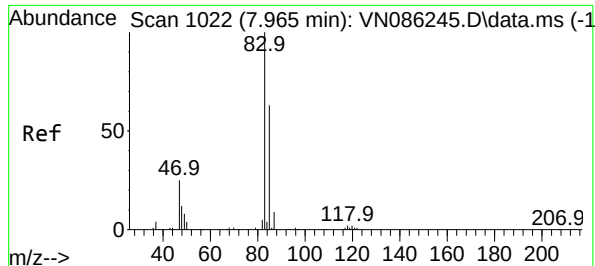
Tgt Ion: 73 Resp: 172426

Ion Ratio Lower Upper

73 100

43 20.2 16.8 25.2





#25

Chloroform

Concen: 20.677 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 83 Resp: 9318

Ion Ratio Lower Upper

83 100

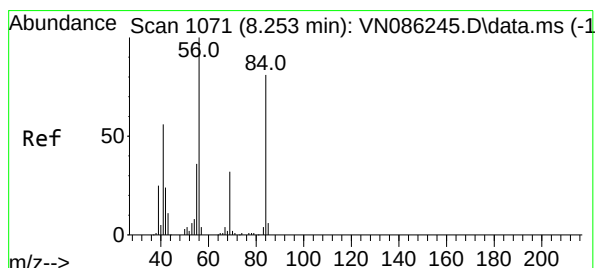
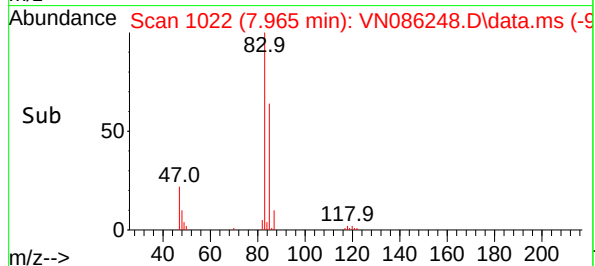
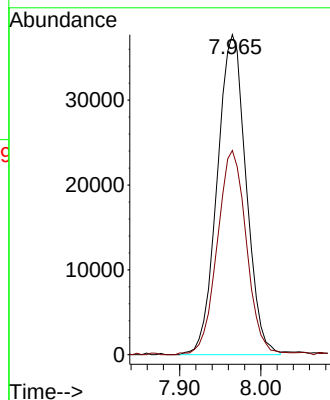
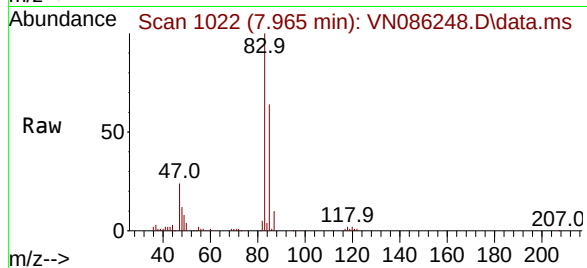
85 63.3 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 19.913 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

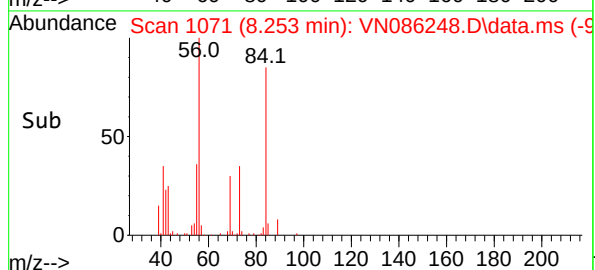
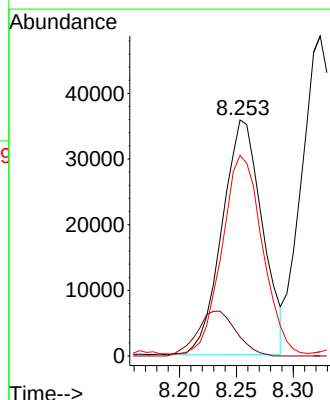
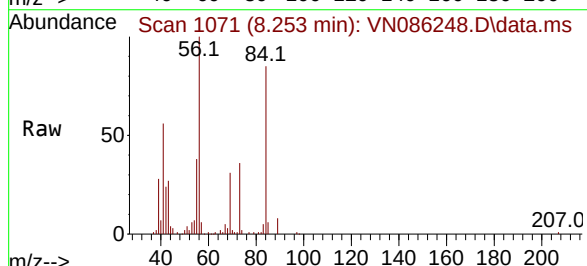
Tgt Ion: 56 Resp: 88041

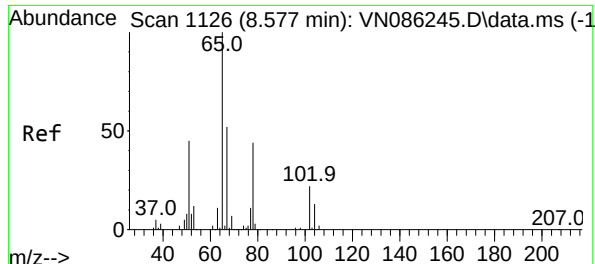
Ion Ratio Lower Upper

56 100

89 18.6 0.0 0.0#

84 86.2 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.777 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 65 Resp: 90160

Ion Ratio Lower Upper

65 100

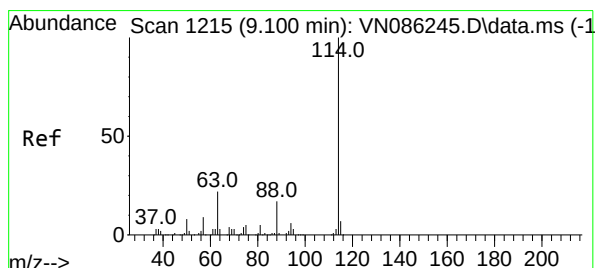
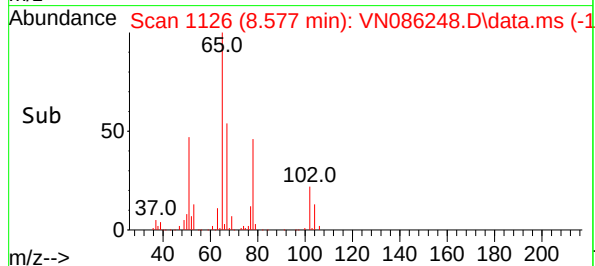
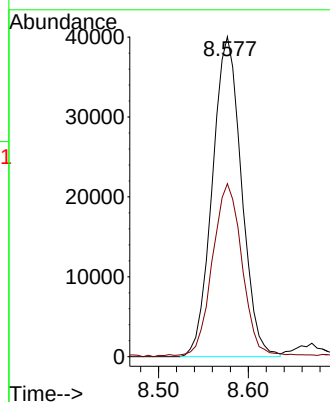
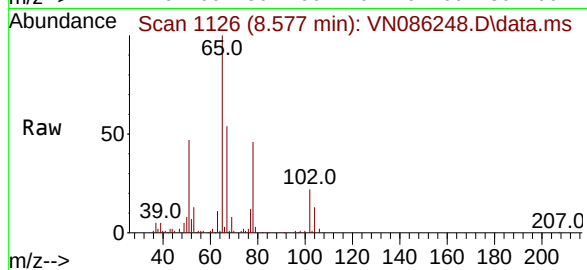
67 54.6 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

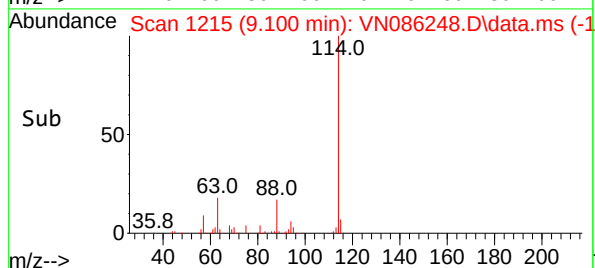
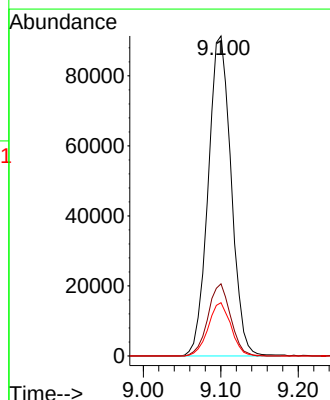
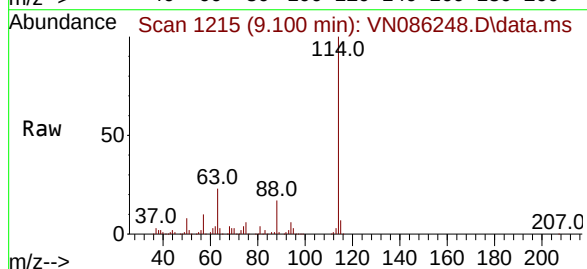
Tgt Ion:114 Resp: 187987

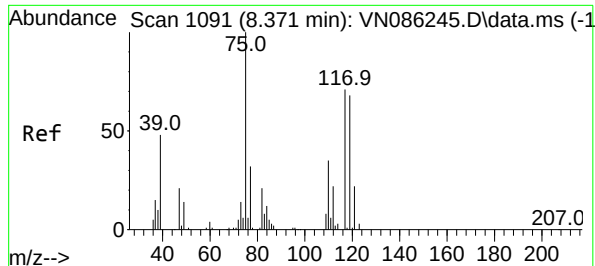
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

88 16.5 13.4 20.2





#29

1,1-Dichloropropene

Concen: 20.373 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 75 Resp: 68608

Ion Ratio Lower Upper

75 100

110 33.4 0.0 68.6

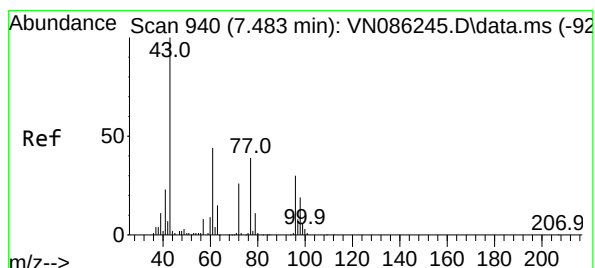
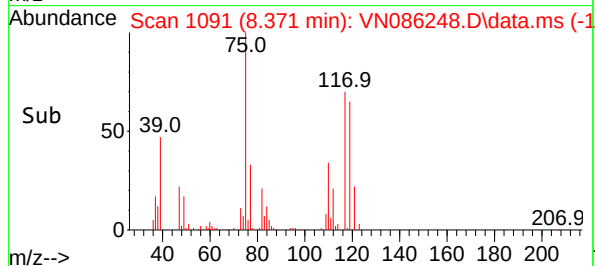
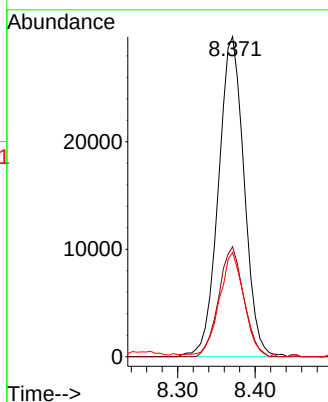
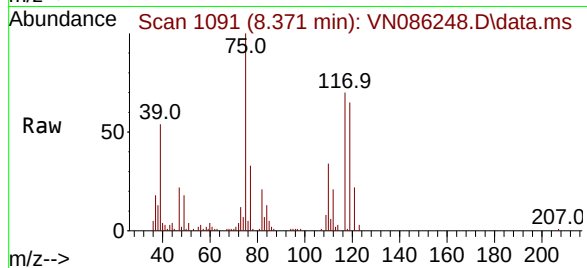
77 31.4 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 98.995 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

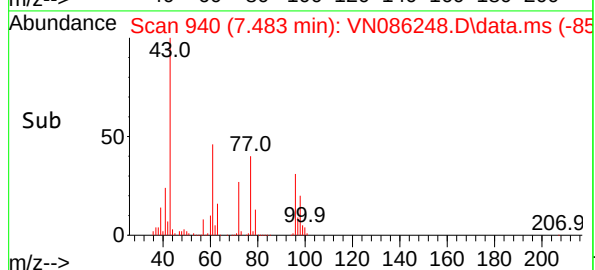
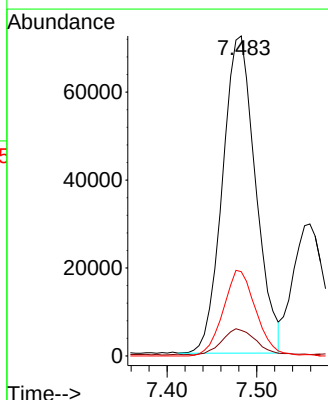
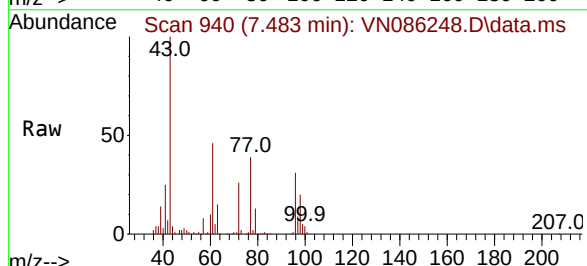
Tgt Ion: 43 Resp: 184728

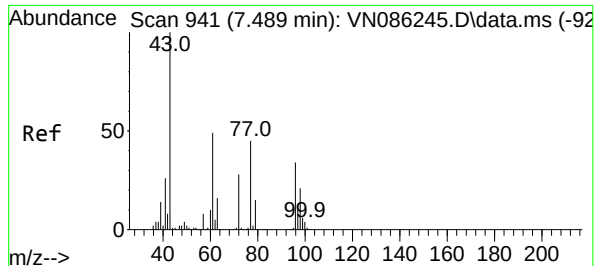
Ion Ratio Lower Upper

43 100

57 8.6 6.4 9.6

72 26.7 21.5 32.3





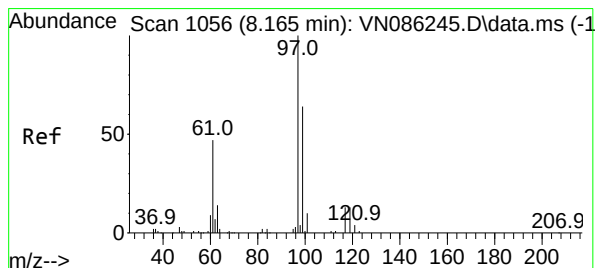
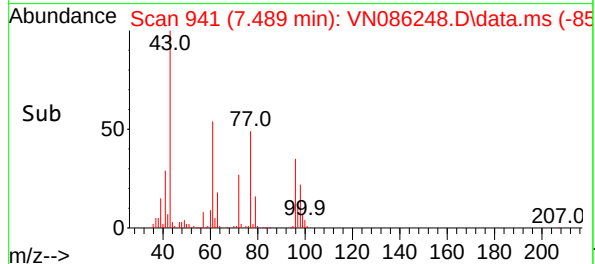
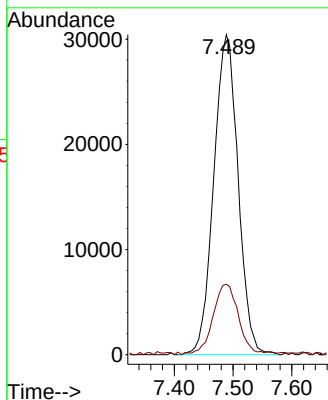
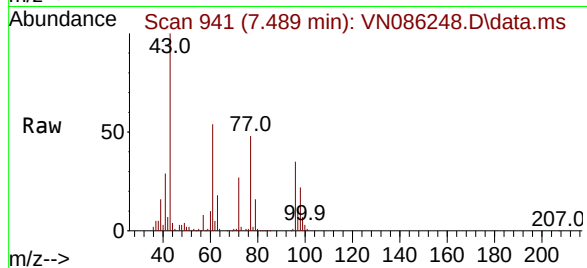
#31
2,2-Dichloropropane
Concen: 21.111 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 77 Resp: 87512
Ion Ratio Lower Upper
77 100
97 22.7 18.8 28.2

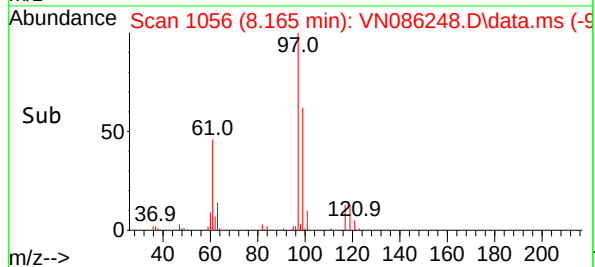
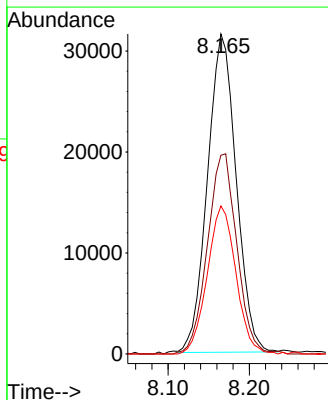
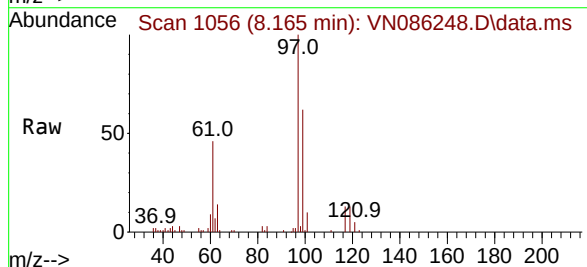
Manual Integrations
APPROVED

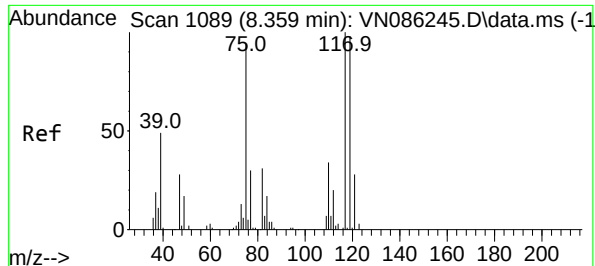
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 20.044 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

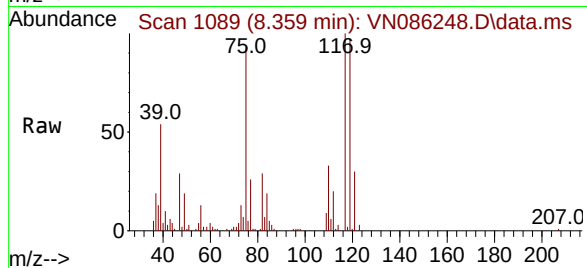
Tgt Ion: 97 Resp: 77645
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 46.2 37.0 55.6





#33
Carbon Tetrachloride
Concen: 20.360 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

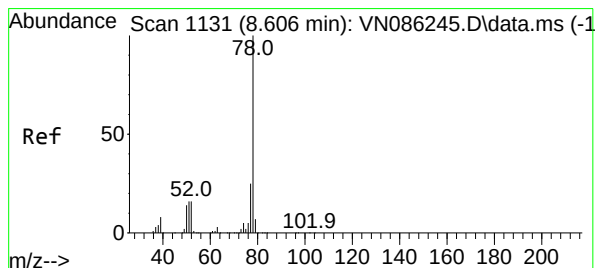
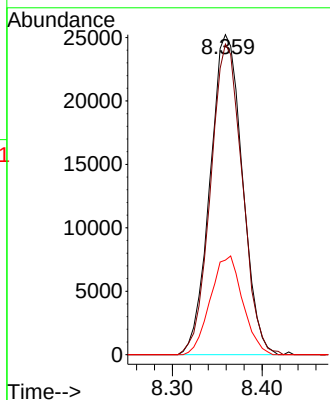
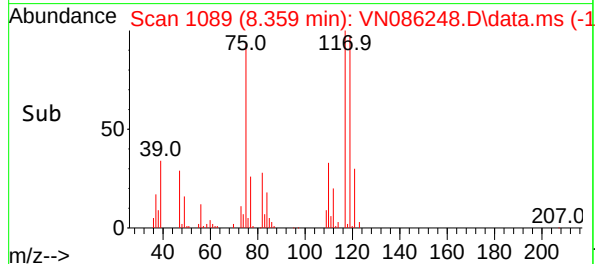
Instrument :
MSVOA_N
ClientSampleId :
ICNVN041125



Tgt Ion:117 Resp: 63029
Ion Ratio Lower Upper
117 100
119 97.1 78.3 117.5
121 29.6 22.5 33.7

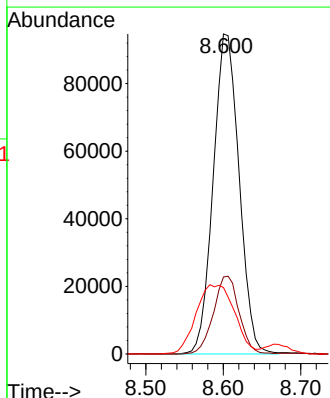
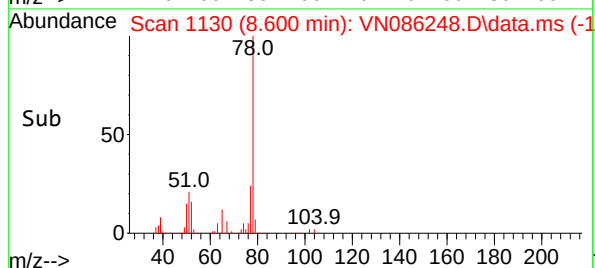
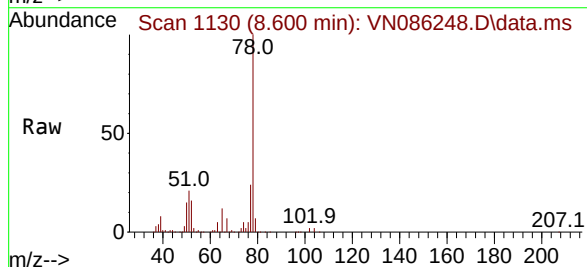
Manual Integrations
APPROVED

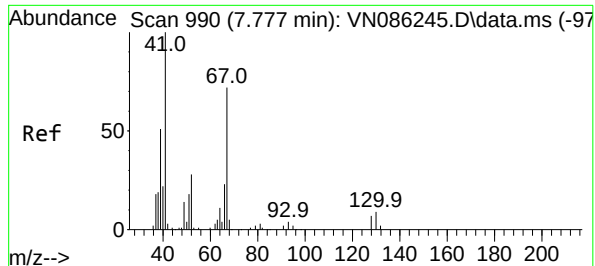
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 20.522 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 78 Resp: 219862
Ion Ratio Lower Upper
78 100
77 24.1 20.0 30.0
51 19.8 12.9 19.3#





#35

Methacrylonitrile

Concen: 19.764 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

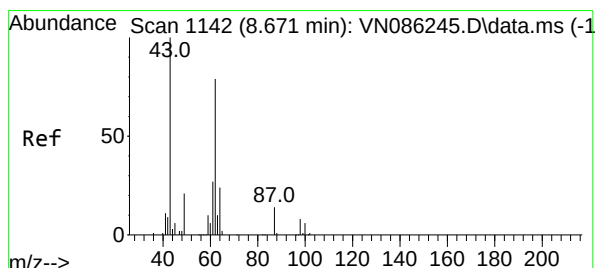
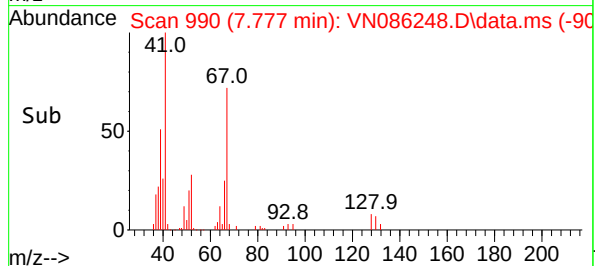
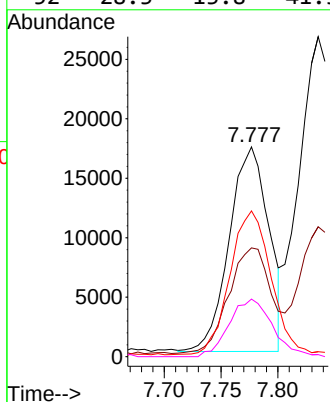
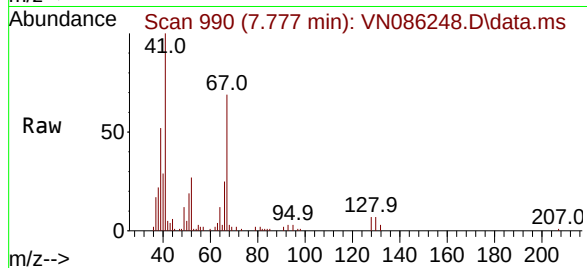
Tgt Ion:	41	Resp:	4157
Ion	Ratio	Lower	Upper
41	100		
39	51.7	25.8	77.3
67	70.4	36.0	108.0
52	28.3	13.8	41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 20.391 ug/l

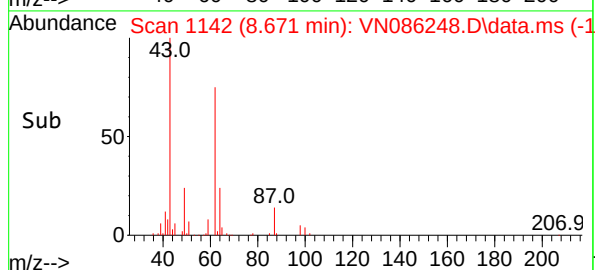
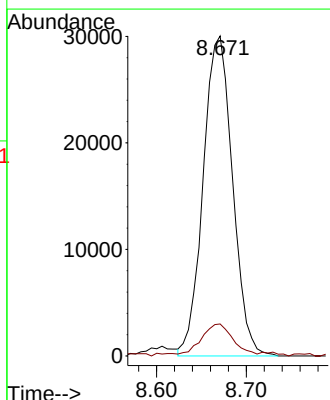
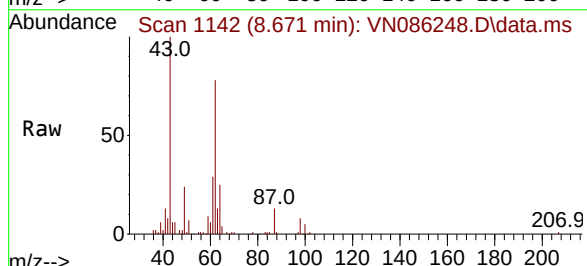
RT: 8.671 min Scan# 1142

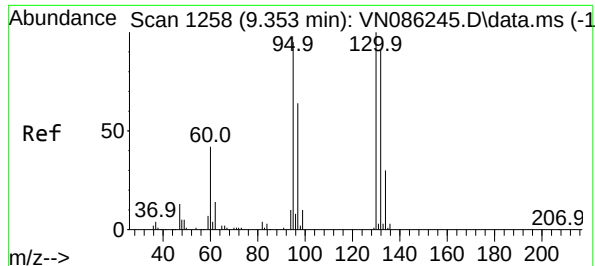
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

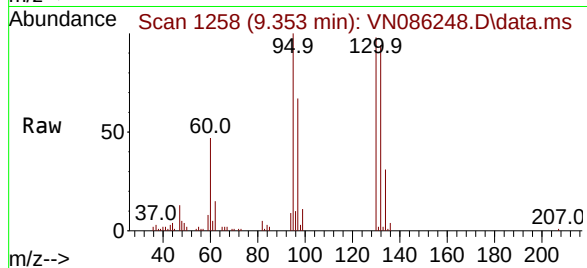
Tgt Ion:	62	Resp:	68362
Ion	Ratio	Lower	Upper
62	100		
98	10.6	8.6	12.8





#37
Trichloroethene
Concen: 19.842 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

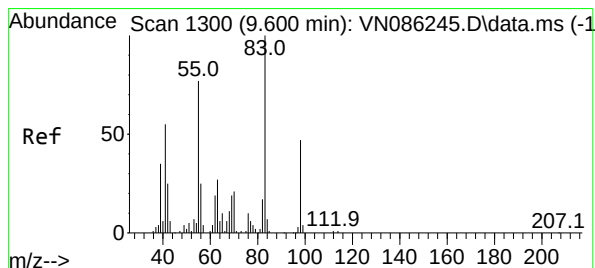
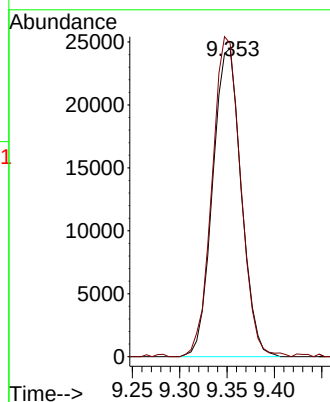
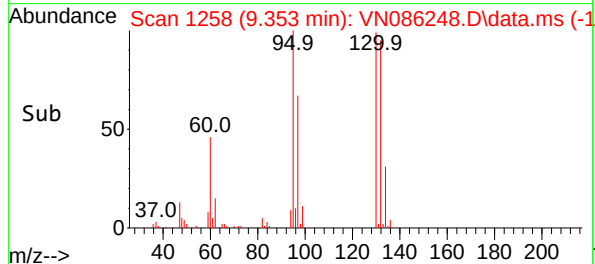
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



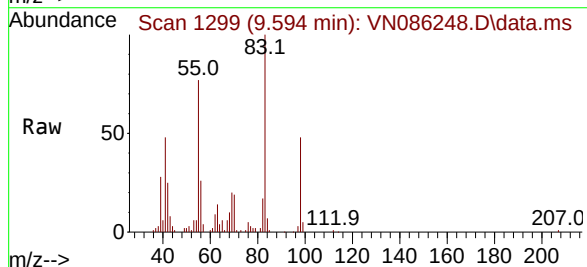
Tgt Ion:130 Resp: 5129
Ion Ratio Lower Upper
130 100
95 101.6 76.4 114.6

Manual Integrations
APPROVED

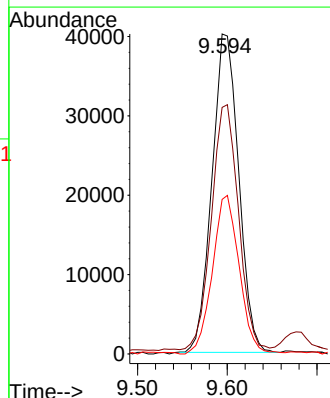
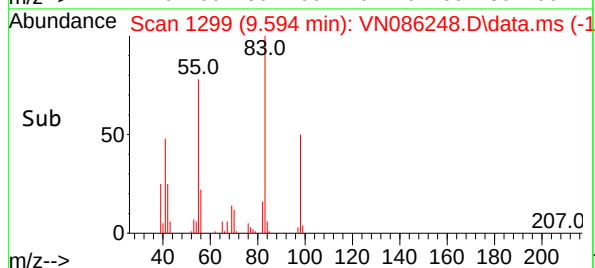
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

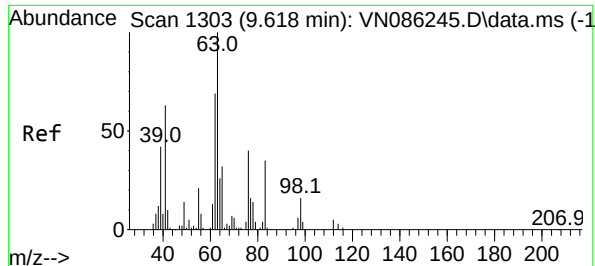


#38
Methylcyclohexane
Concen: 20.137 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34



Tgt Ion: 83 Resp: 83168
Ion Ratio Lower Upper
83 100
55 78.5 38.5 115.5
98 50.0 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.675 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 63 Resp: 55110

Ion Ratio Lower Upper

63 100

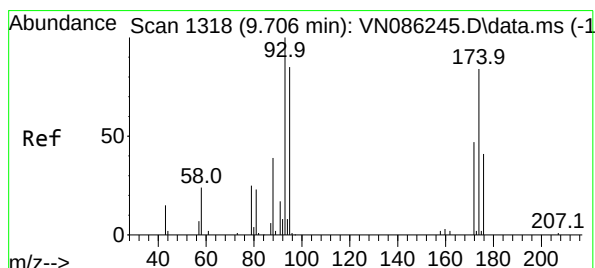
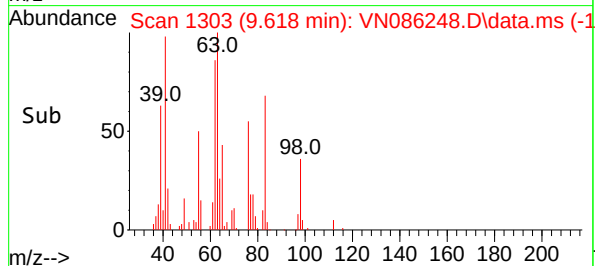
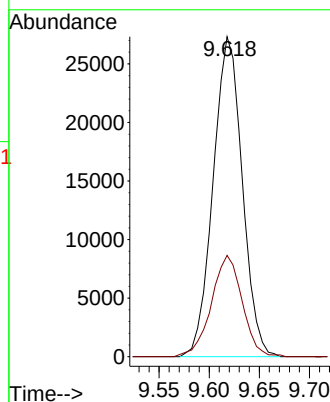
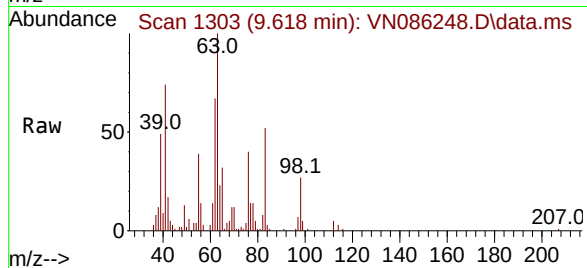
65 31.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 19.681 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

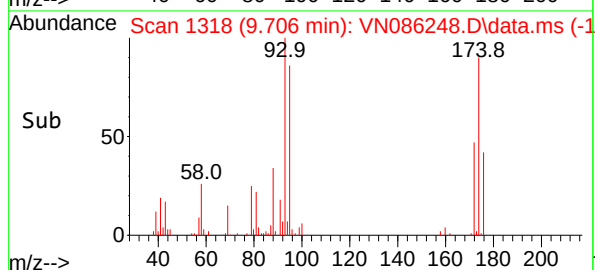
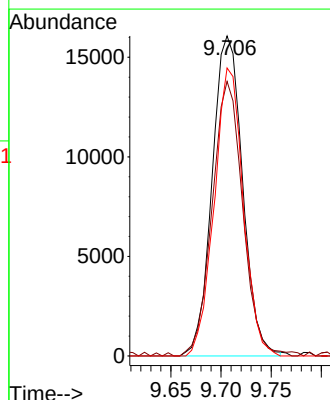
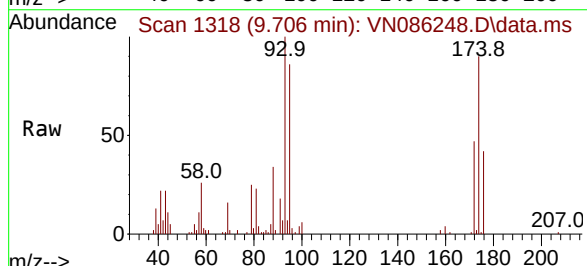
Tgt Ion: 93 Resp: 33887

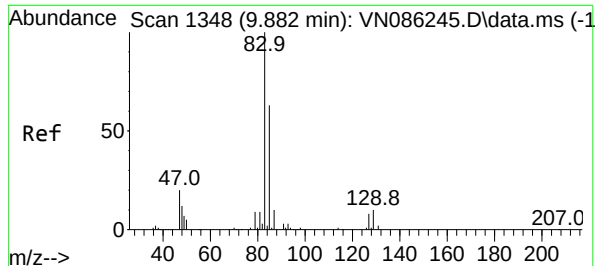
Ion Ratio Lower Upper

93 100

95 86.2 0.0 169.0

174 85.9 0.0 168.0





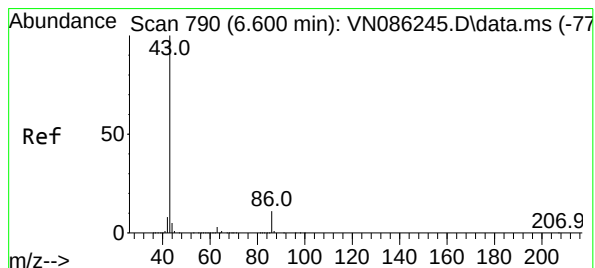
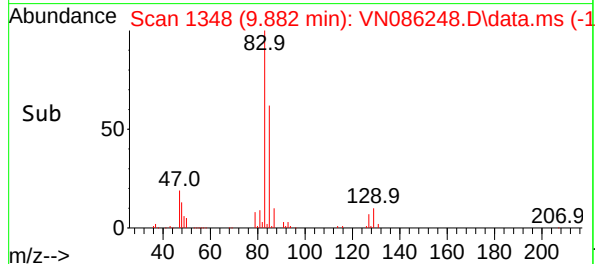
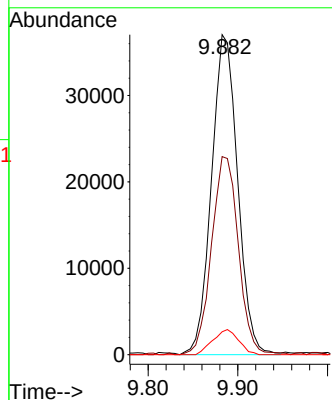
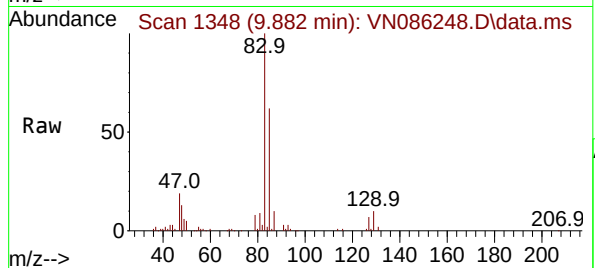
#41
Bromodichloromethane
Concen: 20.289 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 83 Resp: 75048
Ion Ratio Lower Upper
83 100
85 61.9 50.2 75.2
127 7.1 6.2 9.4

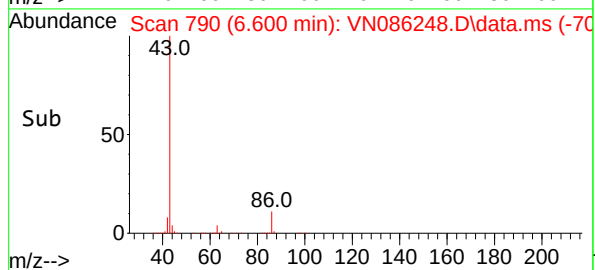
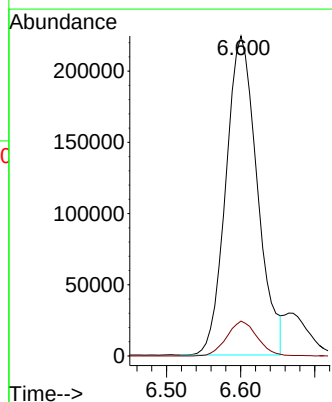
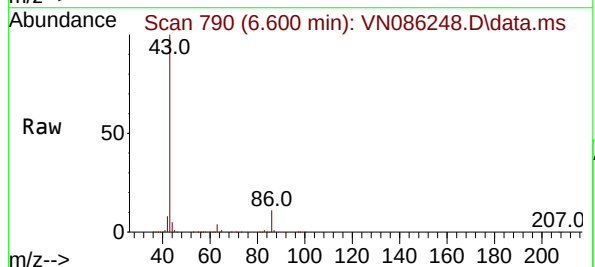
Manual Integrations
APPROVED

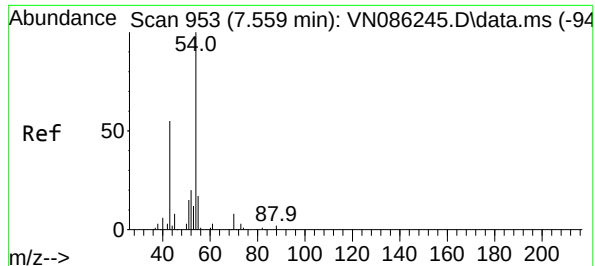
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 103.572 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 657878
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6





#43

Ethyl Acetate

Concen: 20.054 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 43 Resp: 7548

Ion Ratio Lower Upper

43 100

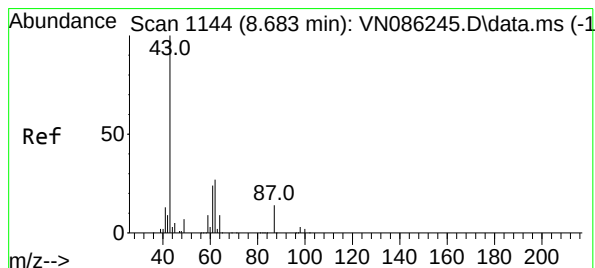
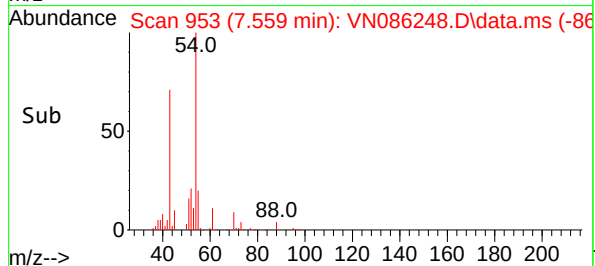
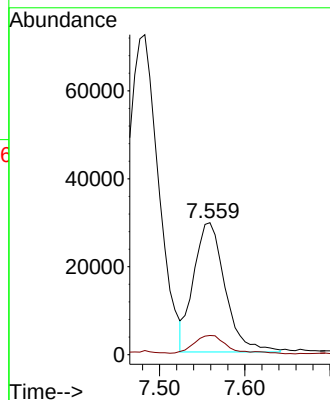
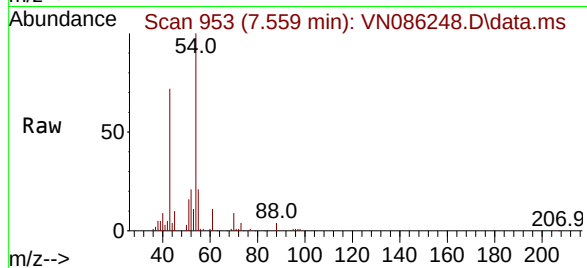
45 13.3 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#44

Isopropyl Acetate

Concen: 20.285 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086248.D

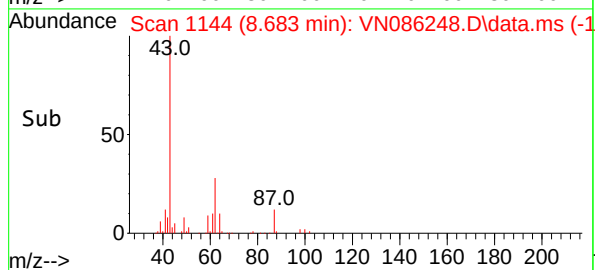
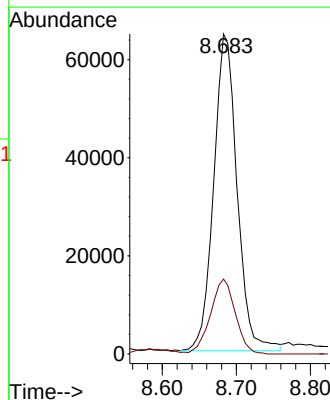
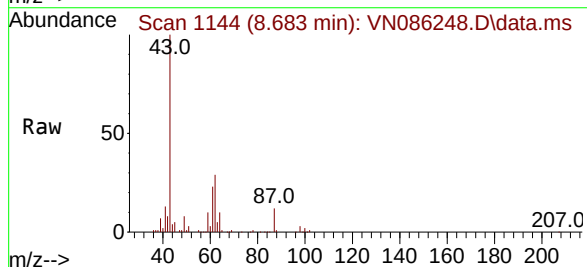
Acq: 11 Apr 2025 13:34

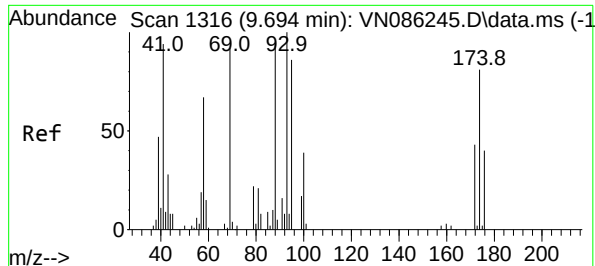
Tgt Ion: 43 Resp: 141640

Ion Ratio Lower Upper

43 100

61 25.0 20.5 30.7





#45

1,4-Dioxane

Concen: 369.952 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 88 Resp: 2054

Ion Ratio Lower Upper

88 100

43 32.9 14.4 21.6

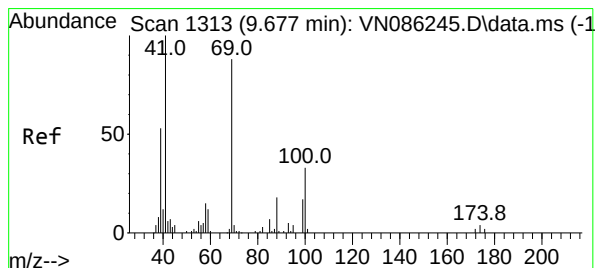
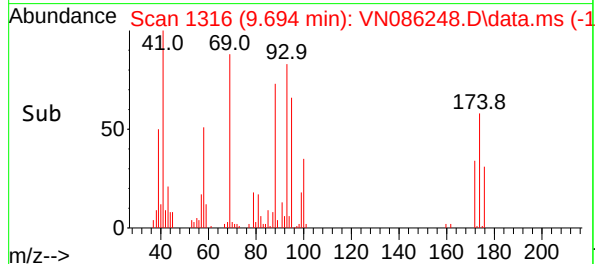
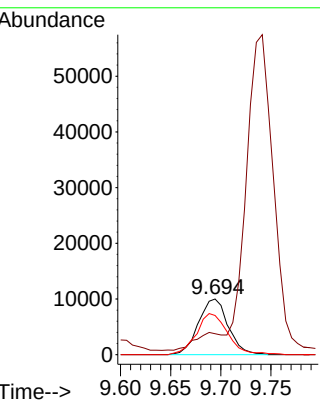
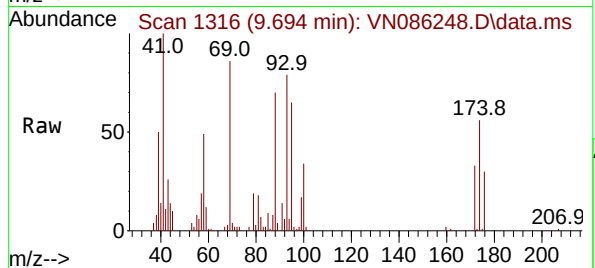
58 76.6 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 19.956 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

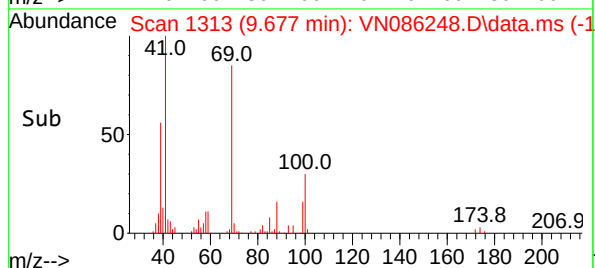
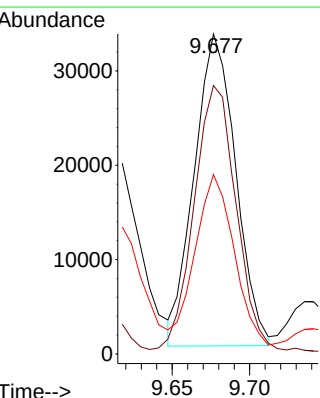
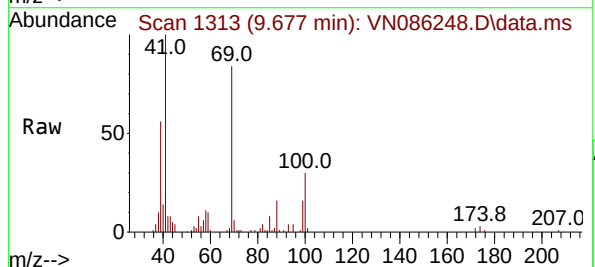
Tgt Ion: 41 Resp: 61396

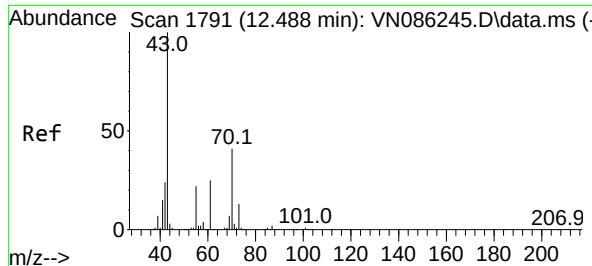
Ion Ratio Lower Upper

41 100

69 85.0 43.2 129.6

39 56.3 26.4 79.0





#47

n-amy1 Acetate

Concen: 19.589 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 43 Resp: 108440

Ion Ratio Lower Upper

43 100

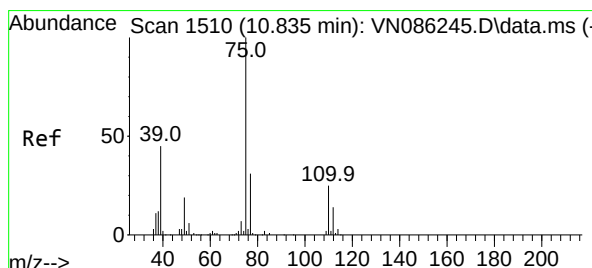
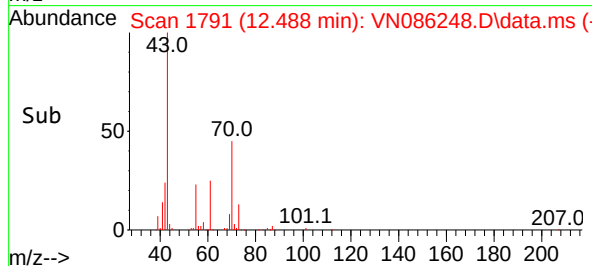
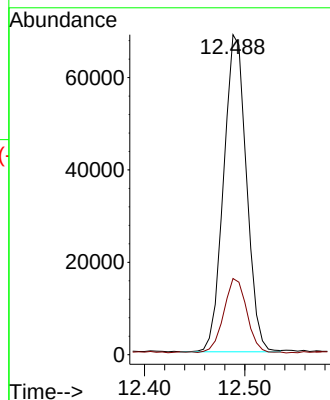
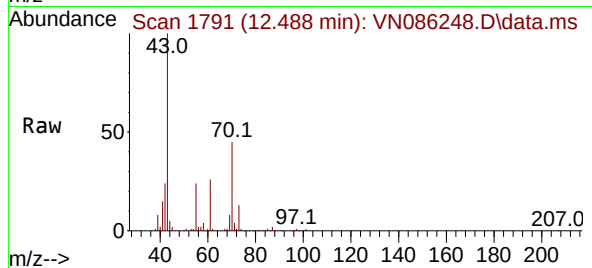
55 23.4 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 20.190 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN086248.D

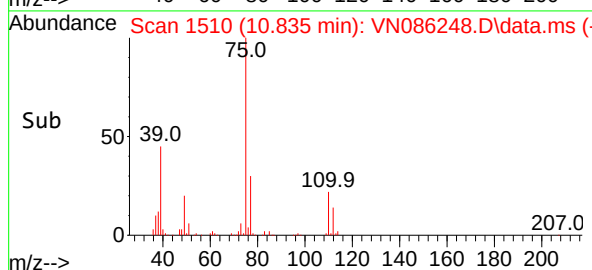
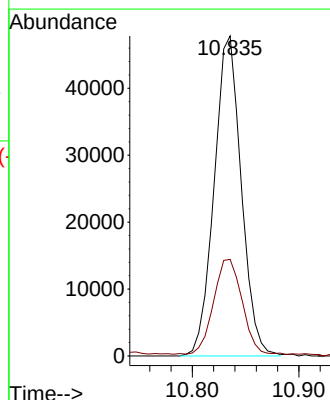
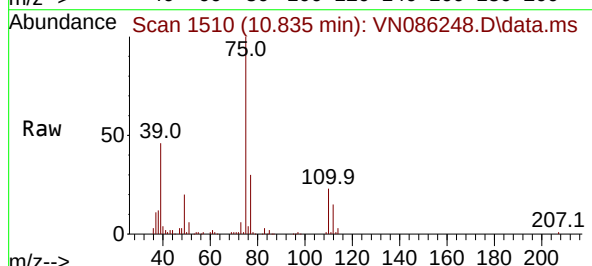
Acq: 11 Apr 2025 13:34

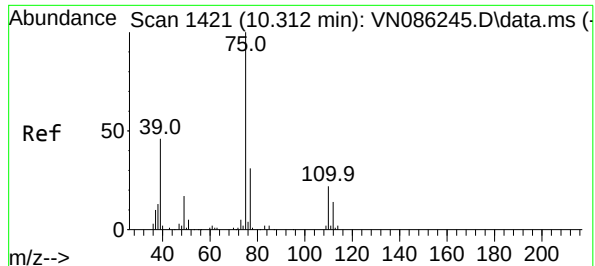
Tgt Ion: 75 Resp: 84428

Ion Ratio Lower Upper

75 100

77 29.4 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 20.581 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

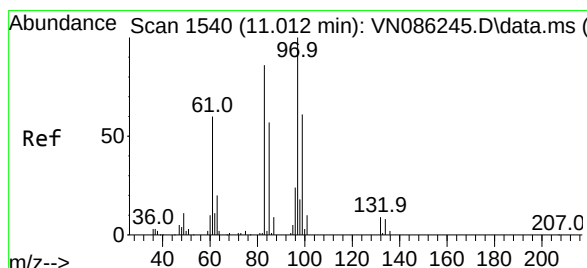
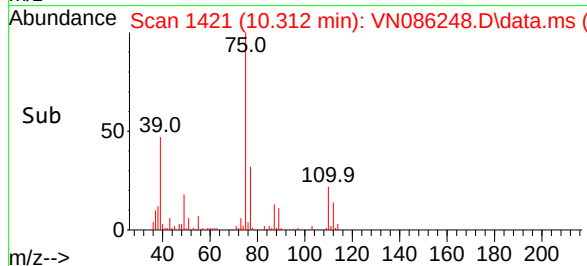
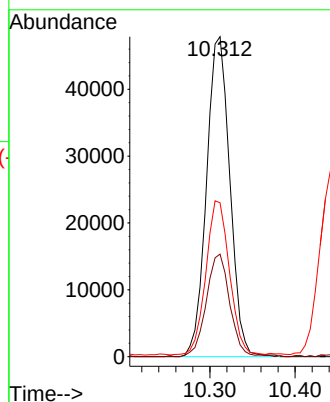
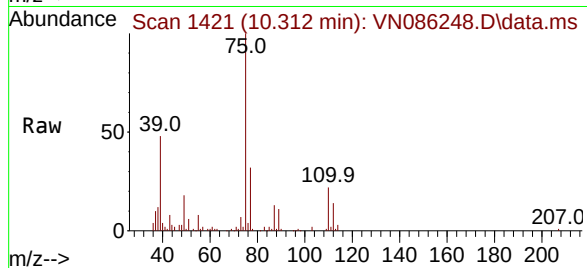
Tgt Ion: 75	Resp: 91089
Ion Ratio	Lower Upper
75 100	
77 32.1	25.0 37.4
39 47.4	36.7 55.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#50

1,1,2-Trichloroethane

Concen: 19.741 ug/l

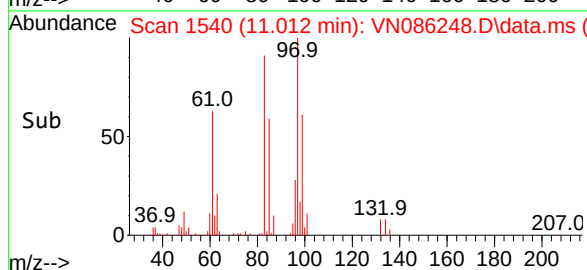
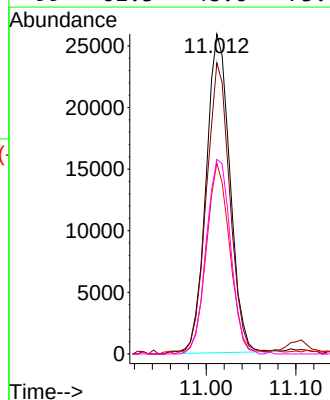
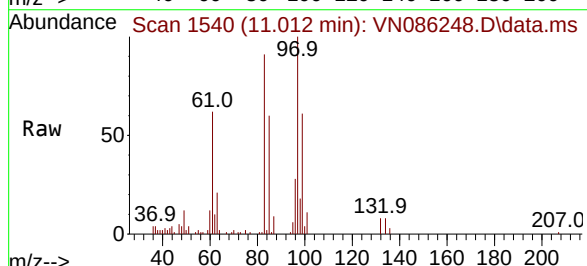
RT: 11.012 min Scan# 1540

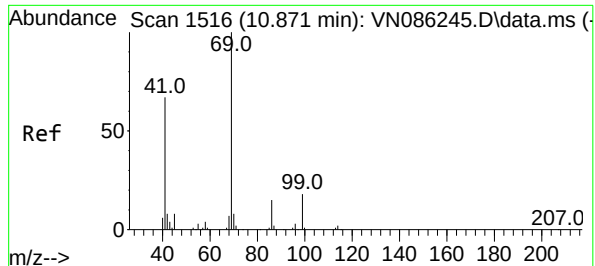
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

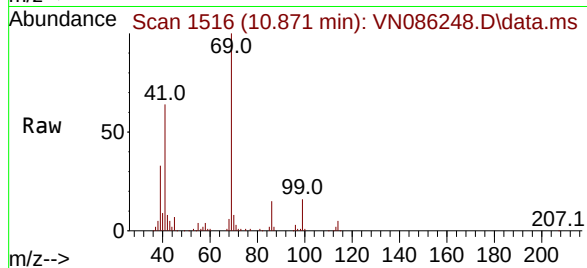
Tgt Ion: 97	Resp: 47672
Ion Ratio	Lower Upper
97 100	
83 90.8	68.6 103.0
85 59.4	45.9 68.9
99 61.3	48.6 73.0





#51
Ethyl methacrylate
Concen: 20.259 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

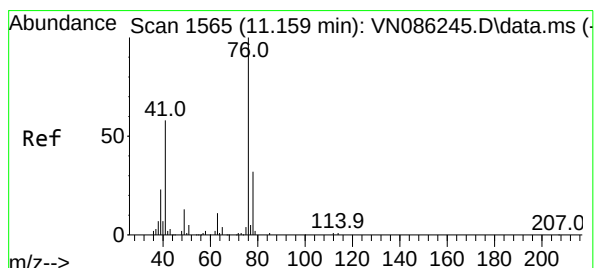
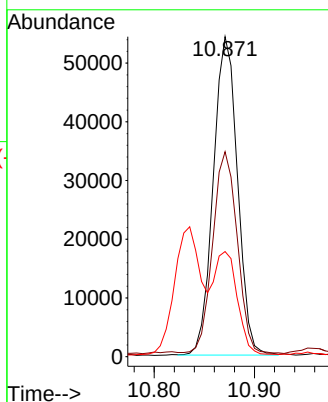
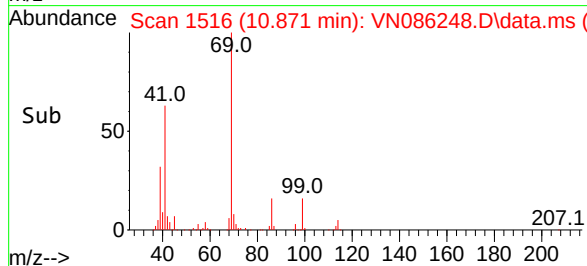
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 69 Resp: 90910
Ion Ratio Lower Upper
69 100
41 63.2 33.6 100.6
39 32.3 17.8 53.4

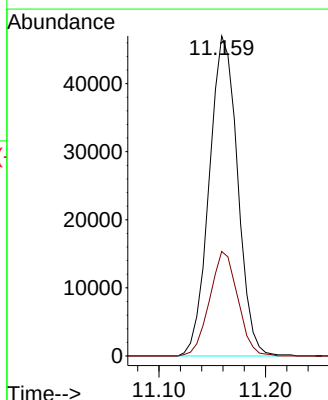
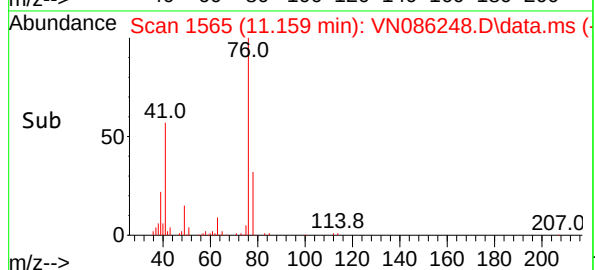
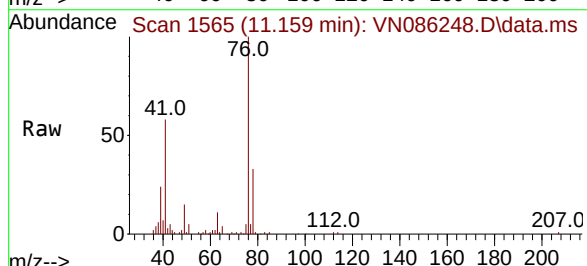
Manual Integrations
APPROVED

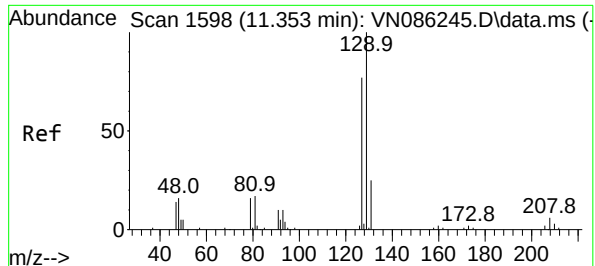
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 20.216 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

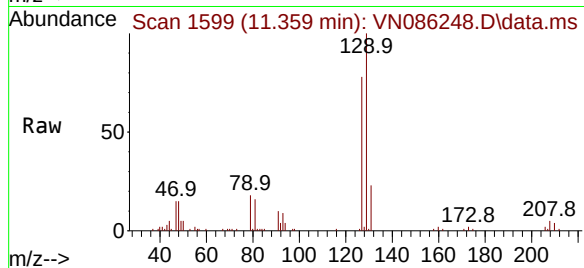
Tgt Ion: 76 Resp: 87015
Ion Ratio Lower Upper
76 100
78 32.4 0.0 64.6





#53
Dibromochloromethane
Concen: 19.923 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

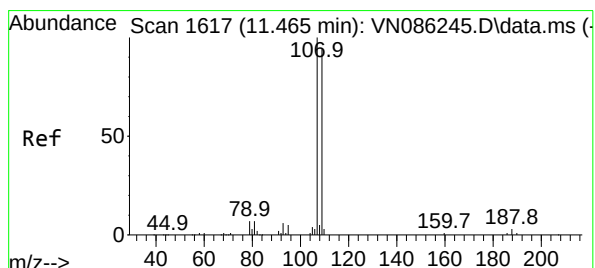
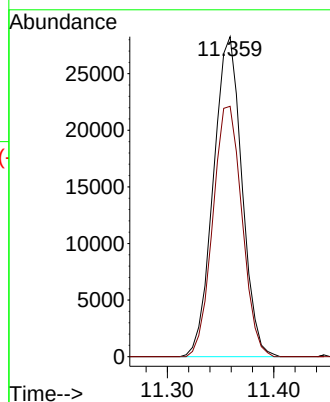
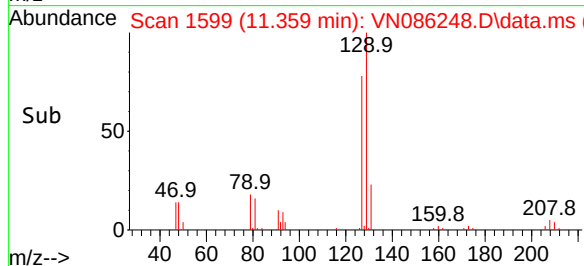
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



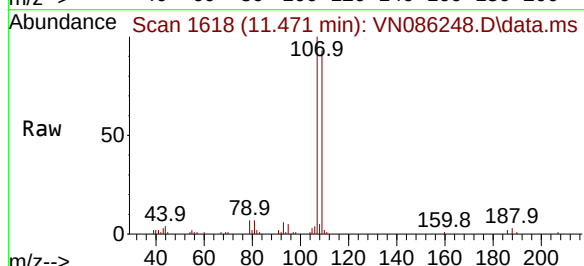
Tgt Ion:129 Resp: 52628
Ion Ratio Lower Upper
129 100
127 79.9 38.5 115.5

Manual Integrations
APPROVED

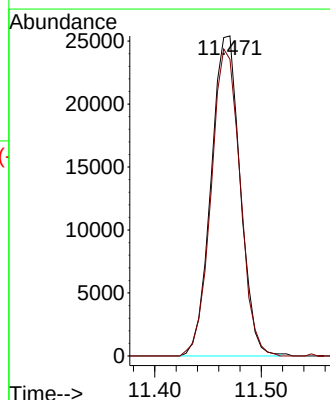
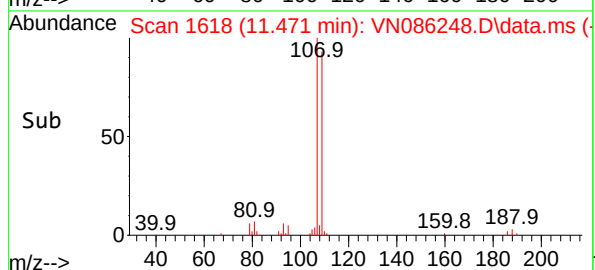
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

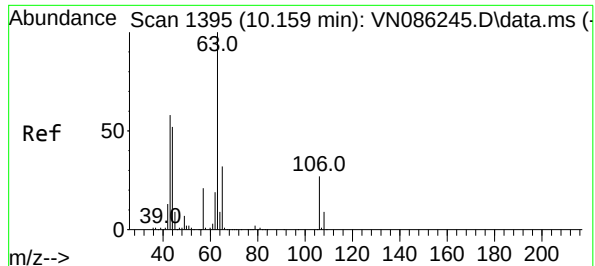


#54
1,2-Dibromoethane
Concen: 19.762 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34



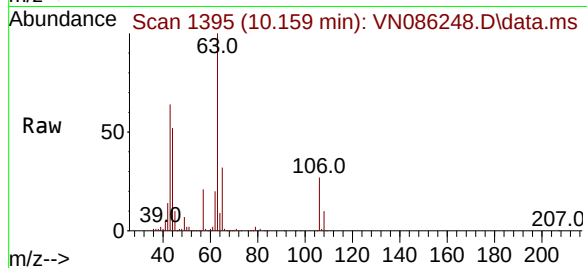
Tgt Ion:107 Resp: 48175
Ion Ratio Lower Upper
107 100
109 95.6 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 132.990 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

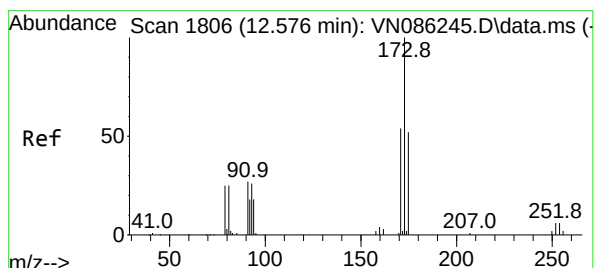
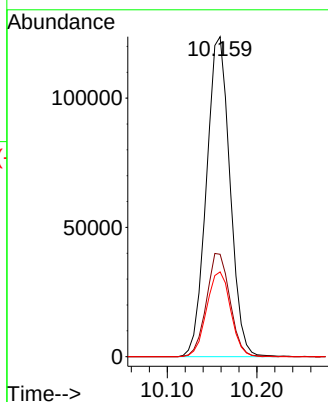
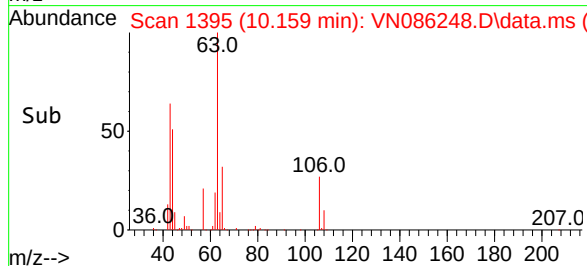
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 63 Resp: 22552
Ion Ratio Lower Upper
63 100
65 32.2 25.8 38.8
106 27.0 21.8 32.8

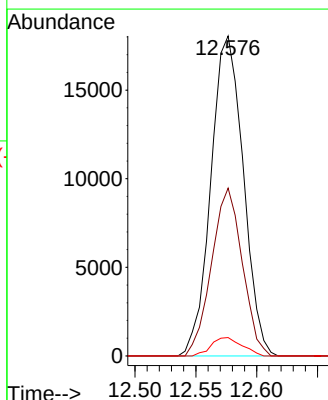
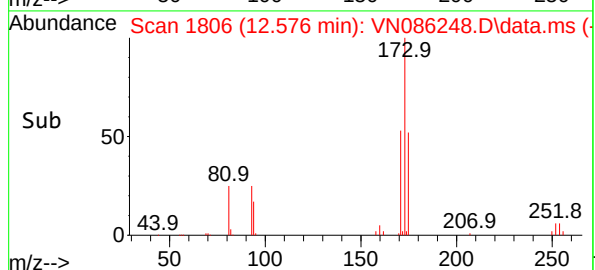
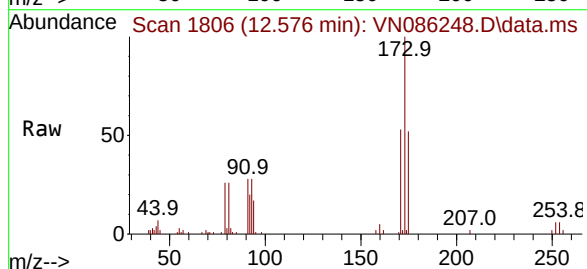
Manual Integrations
APPROVED

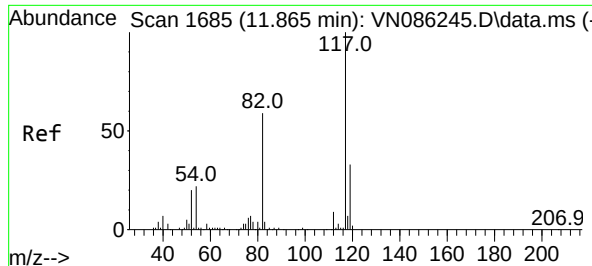
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 19.359 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

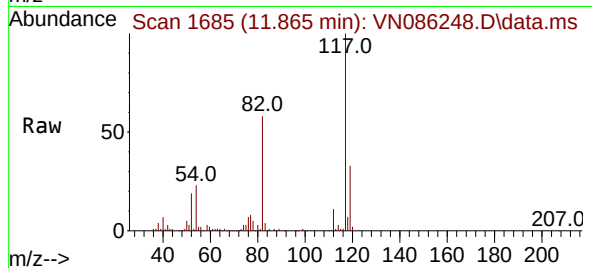
Tgt Ion:173 Resp: 33456
Ion Ratio Lower Upper
173 100
175 49.7 38.2 57.4
254 5.5 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

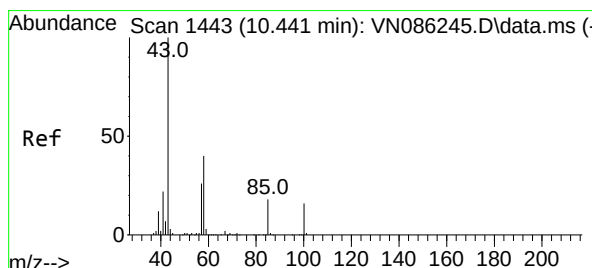
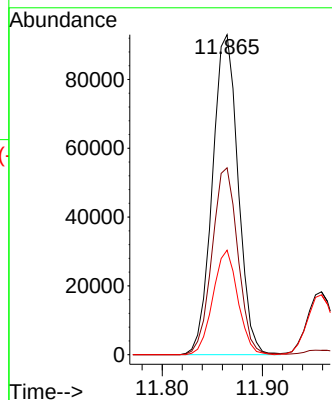
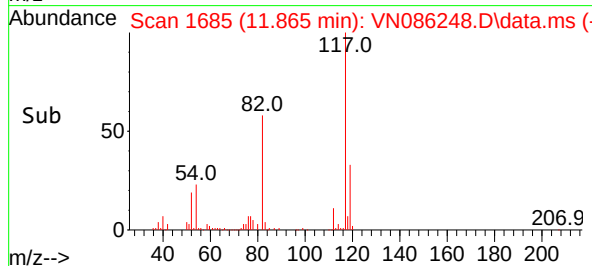
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 117 Resp: 16572
Ion Ratio Lower Upper
117 100
82 58.7 47.3 70.9
119 31.7 25.9 38.9

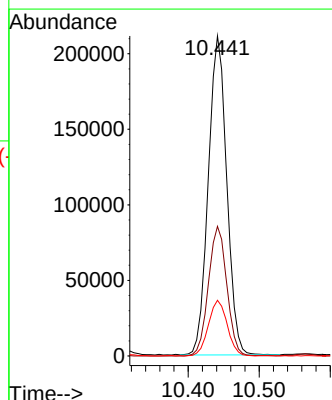
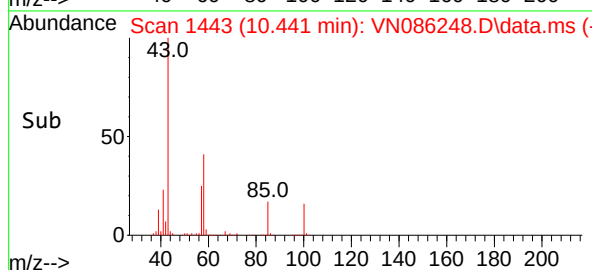
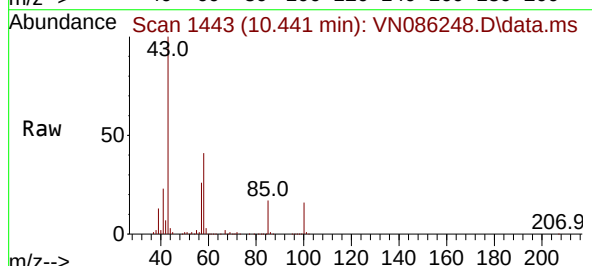
Manual Integrations
APPROVED

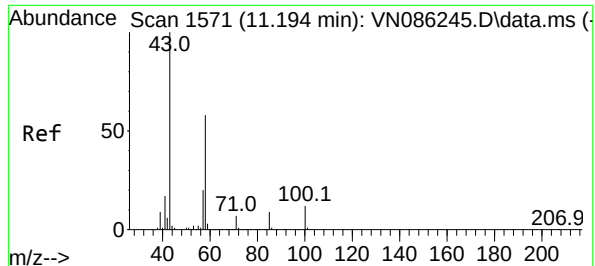
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 101.329 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 381072
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 17.8 14.4 21.6





#59

2-Hexanone

Concen: 101.451 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN086248.D

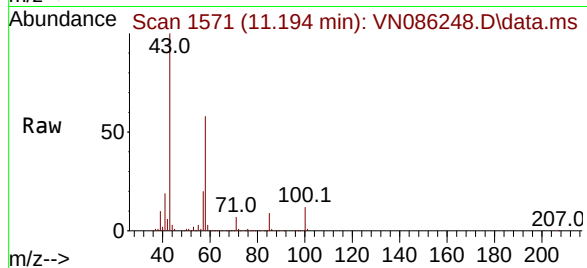
Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

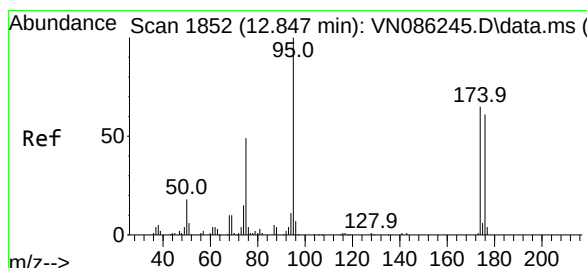
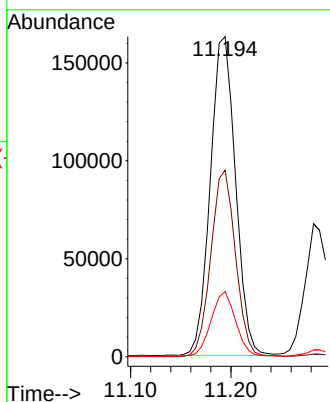
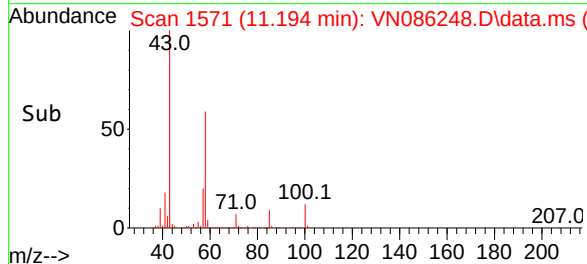
ICVVN041125



Tgt Ion: 43	Resp: 284098
Ion Ratio	Lower Upper
43	100
58	57.1 45.3 67.9
57	19.4 15.8 23.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60

4-Bromofluorobenzene

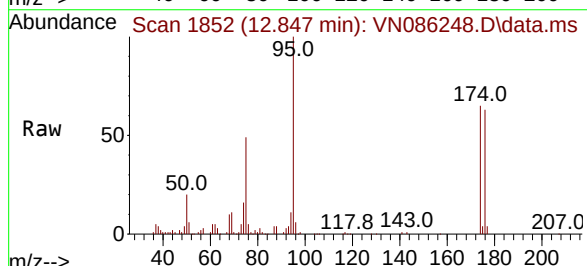
Concen: 29.482 ug/l

RT: 12.847 min Scan# 1852

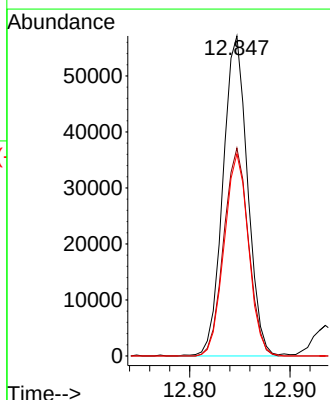
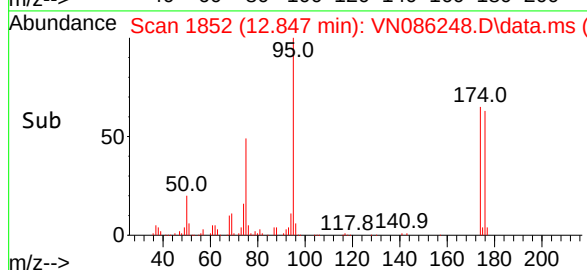
Delta R.T. 0.000 min

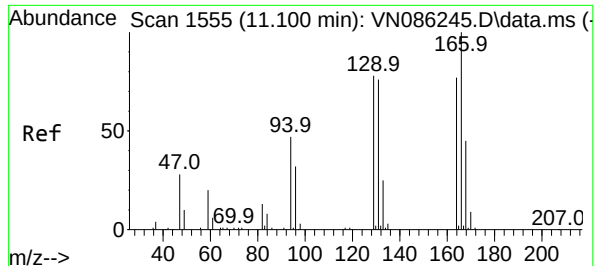
Lab File: VN086248.D

Acq: 11 Apr 2025 13:34



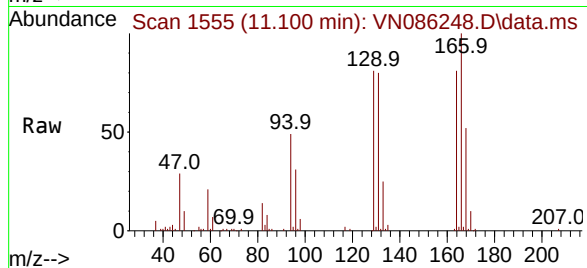
Tgt Ion: 95	Resp: 97275
Ion Ratio	Lower Upper
95	100
174	65.2 52.7 79.1
176	62.4 49.8 74.8





#61
Tetrachloroethene
Concen: 20.169 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

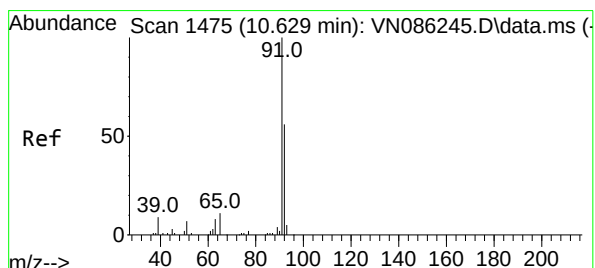
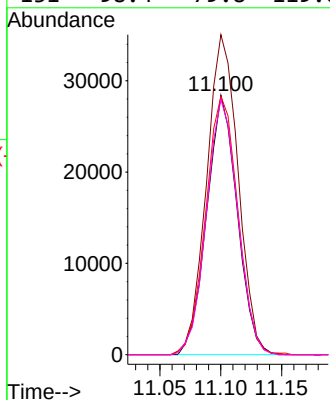
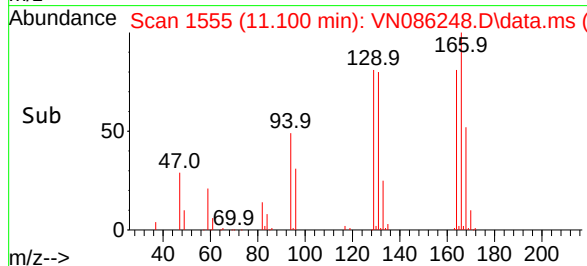
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:164 Resp: 49360
Ion Ratio Lower Upper
164 100
166 122.8 104.5 156.7
129 99.1 81.7 122.5
131 98.4 79.8 119.6

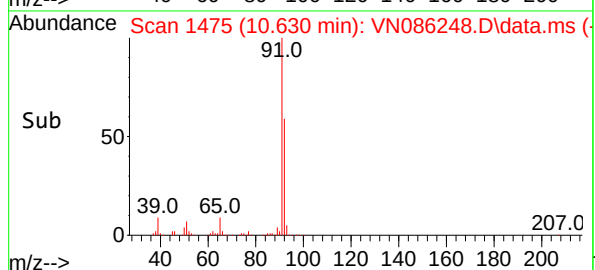
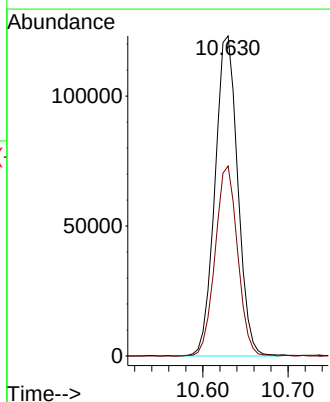
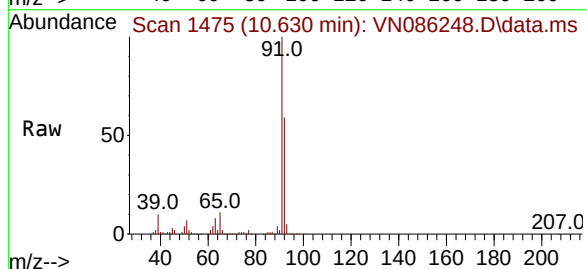
Manual Integrations
APPROVED

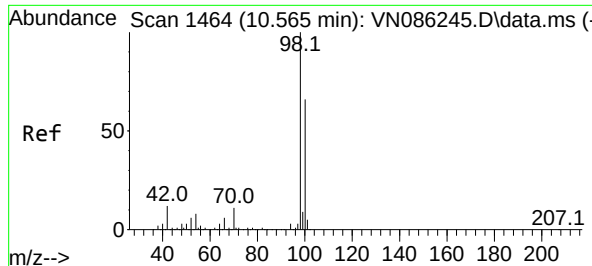
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 20.568 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

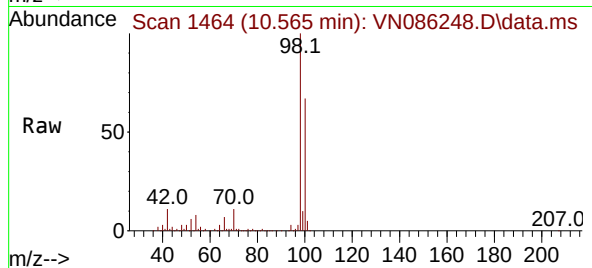
Tgt Ion: 91 Resp: 228625
Ion Ratio Lower Upper
91 100
92 58.6 46.8 70.2





#63
Toluene-d8
Concen: 29.890 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

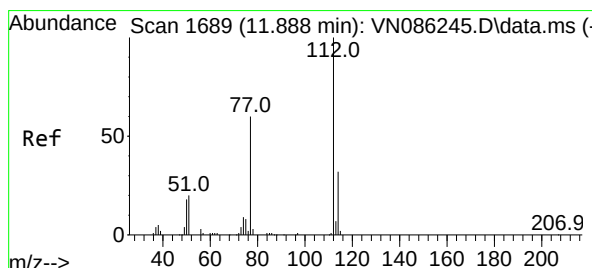
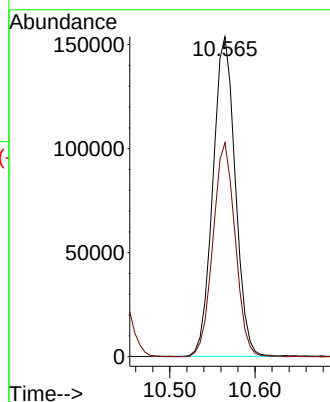
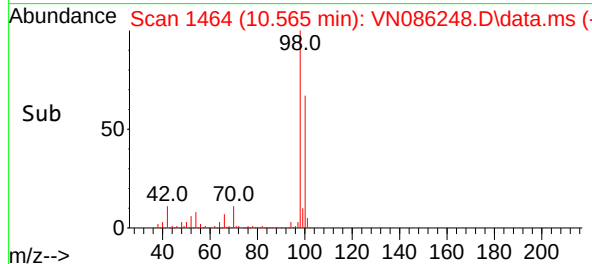
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 98 Resp: 279650
Ion Ratio Lower Upper
98 100
100 66.6 52.3 78.5

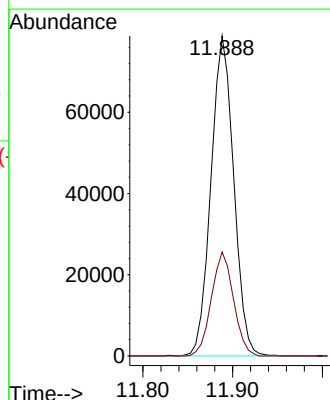
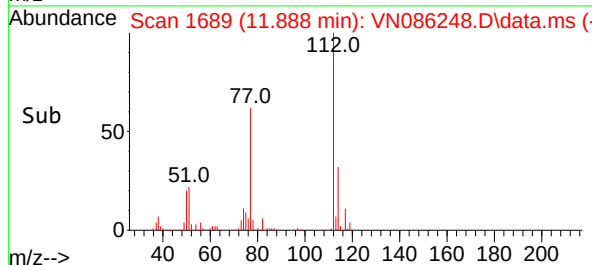
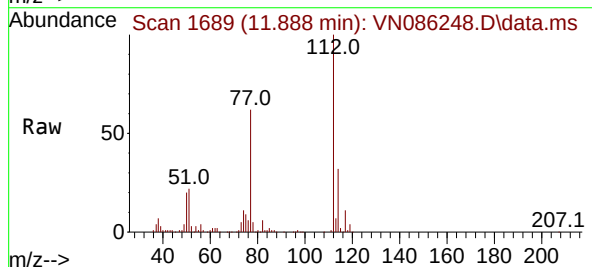
Manual Integrations
APPROVED

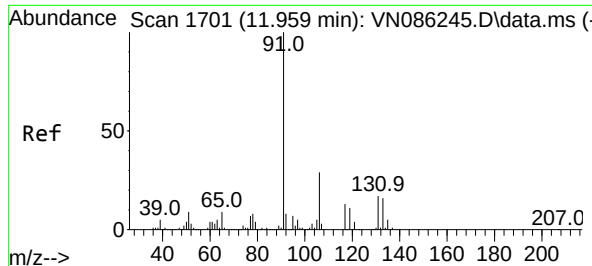
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 20.424 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

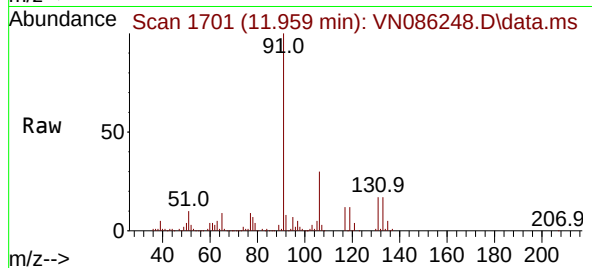
Tgt Ion:112 Resp: 138700
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 20.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

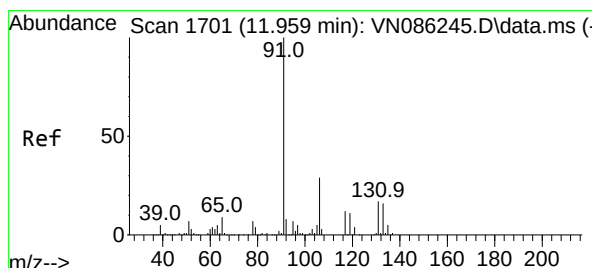
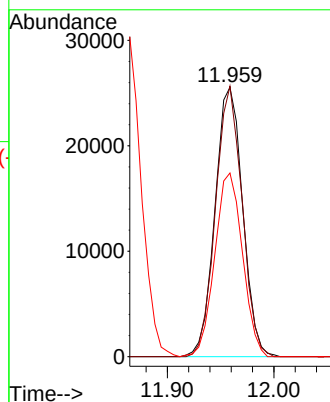
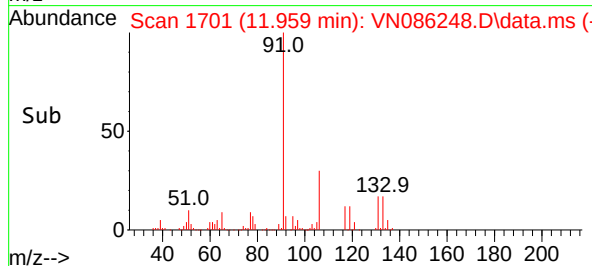
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:131 Resp: 46048
Ion Ratio Lower Upper
131 100
133 96.3 0.0 190.4
119 68.4 0.0 135.6

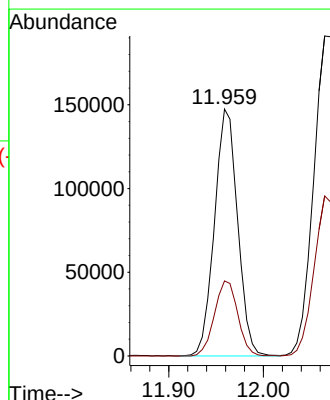
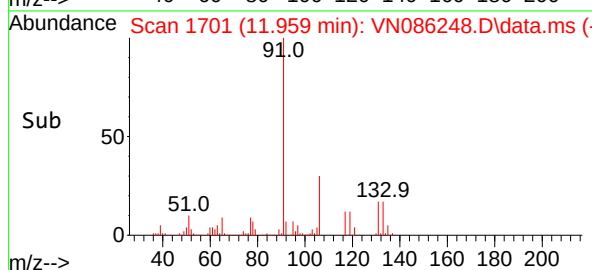
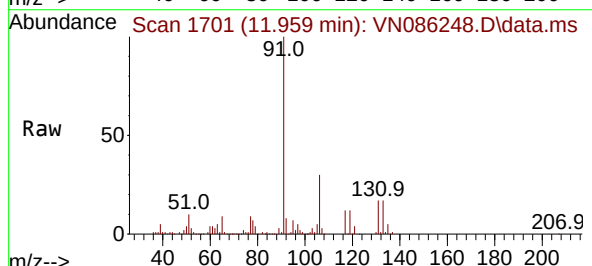
Manual Integrations
APPROVED

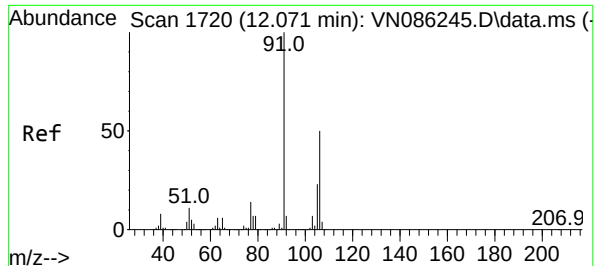
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 20.336 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 250686
Ion Ratio Lower Upper
91 100
106 30.4 23.4 35.0





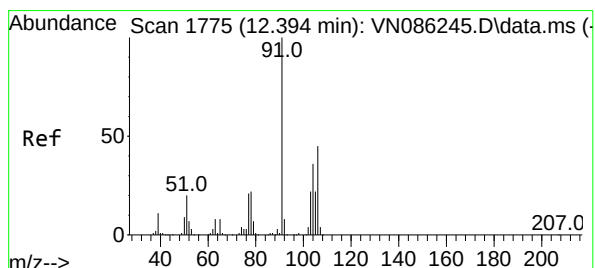
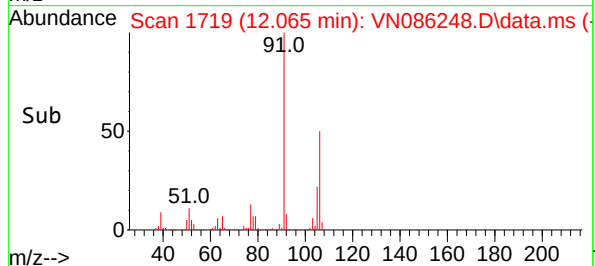
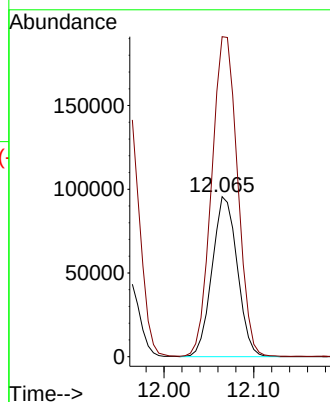
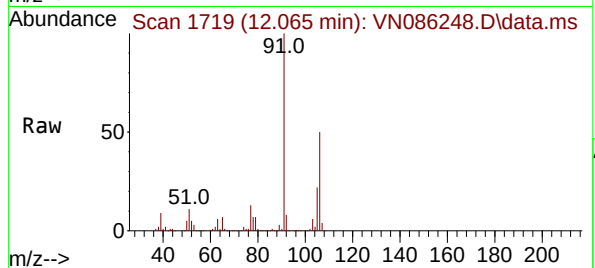
#67
m/p-Xylenes
Concen: 40.633 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:106 Resp: 18624
Ion Ratio Lower Upper
106 100
91 205.6 164.5 246.7

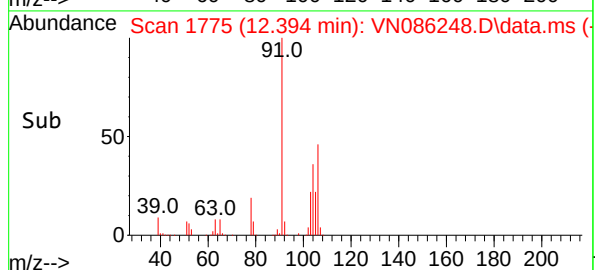
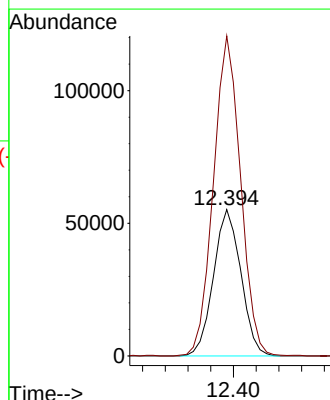
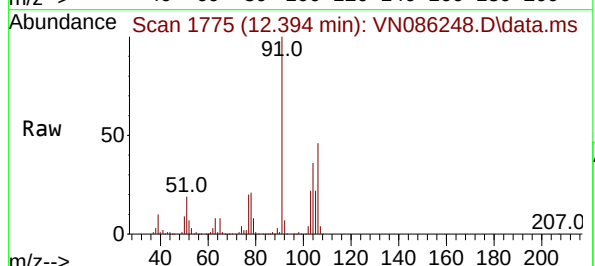
Manual Integrations
APPROVED

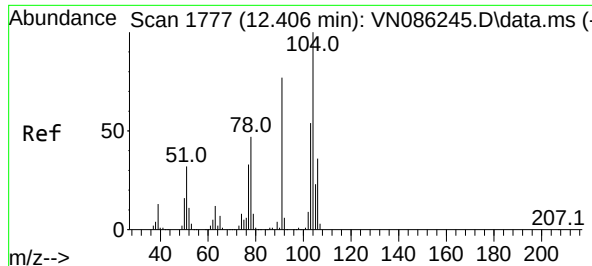
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 20.528 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

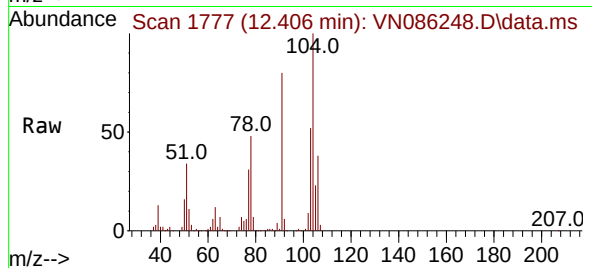
Tgt Ion:106 Resp: 92550
Ion Ratio Lower Upper
106 100
91 216.2 109.8 329.4





#69
Styrene
Concen: 20.281 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

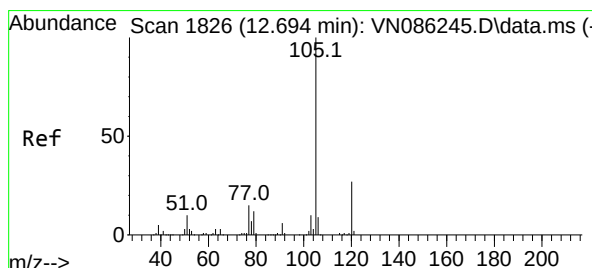
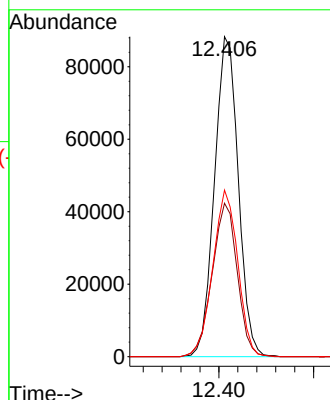
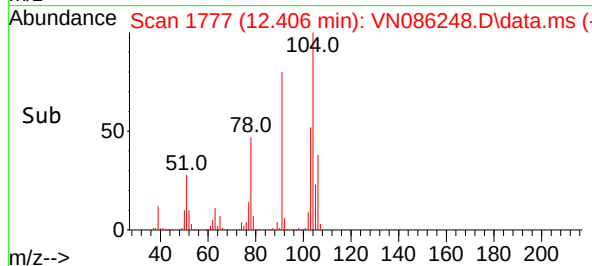
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:104 Resp: 154208
Ion Ratio Lower Upper
104 100
78 50.6 41.4 62.0
103 54.6 44.2 66.4

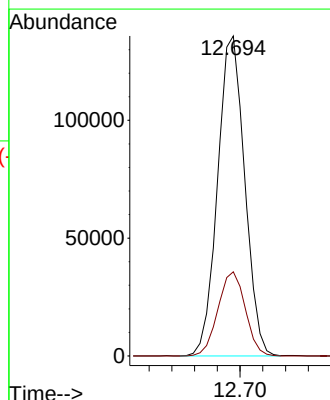
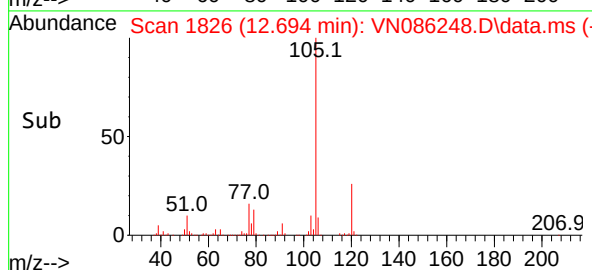
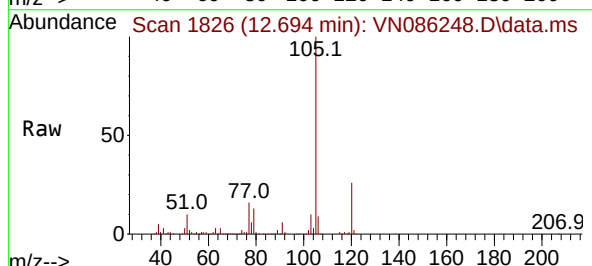
Manual Integrations
APPROVED

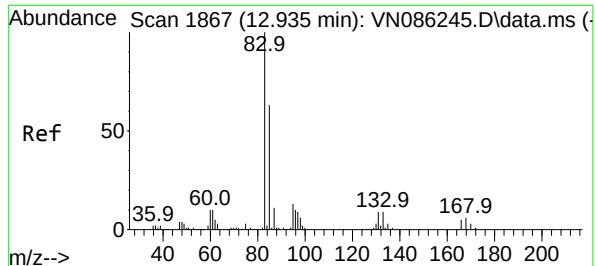
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 20.275 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

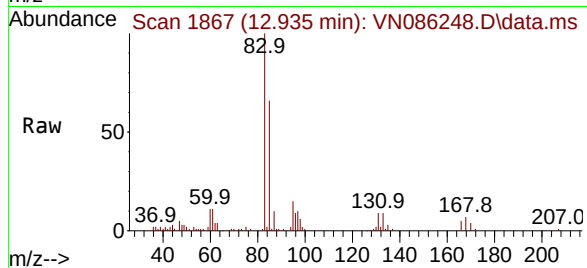
Tgt Ion:105 Resp: 225389
Ion Ratio Lower Upper
105 100
120 26.4 18.3 34.1





#71
1,1,2,2-Tetrachloroethane
Concen: 20.516 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

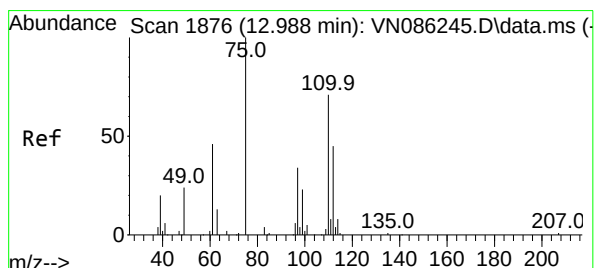
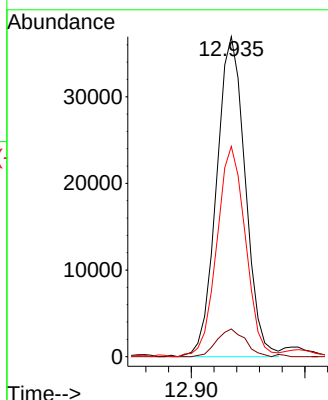
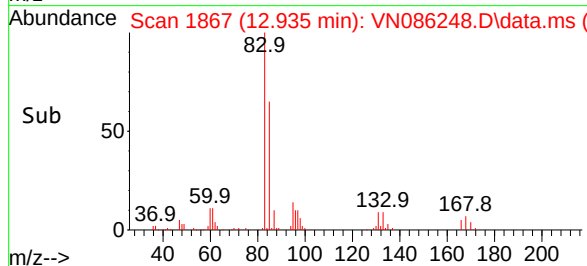
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 83 Resp: 64915
Ion Ratio Lower Upper
83 100
131 8.6 4.8 14.3
85 65.4 32.3 96.8

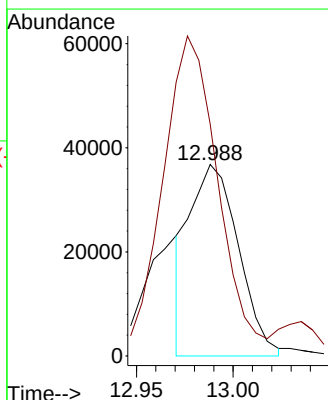
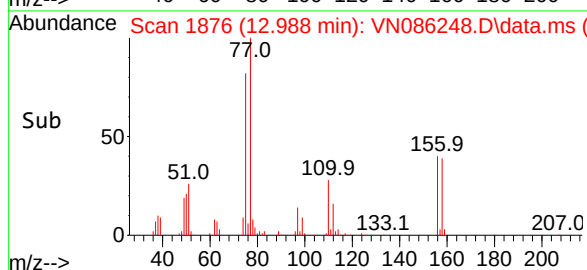
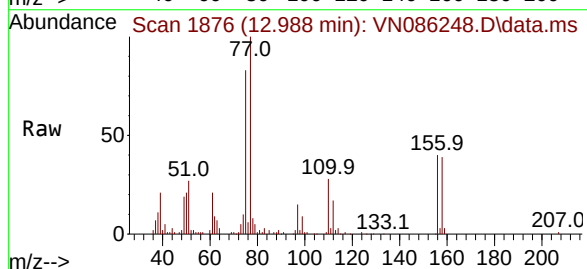
Manual Integrations
APPROVED

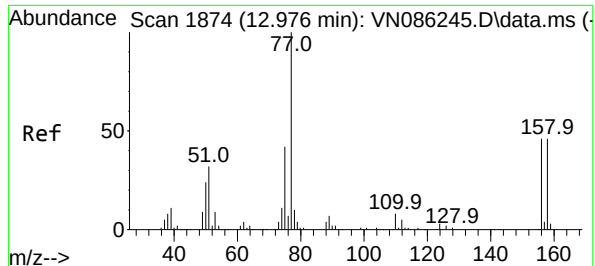
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 19.534 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

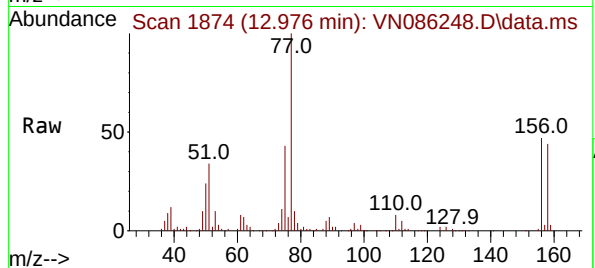
Tgt Ion: 75 Resp: 64339
Ion Ratio Lower Upper
75 100
77 191.4 0.0 380.0





#73
Bromobenzene
Concen: 19.870 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

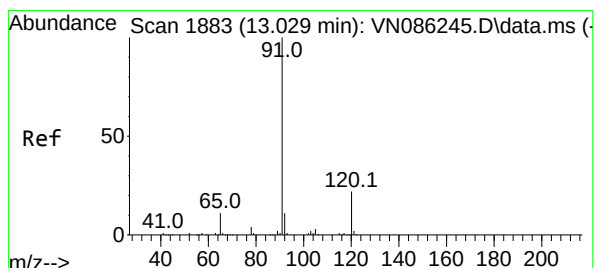
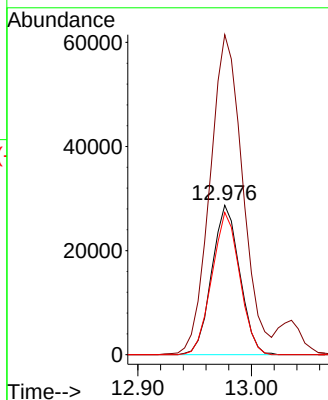
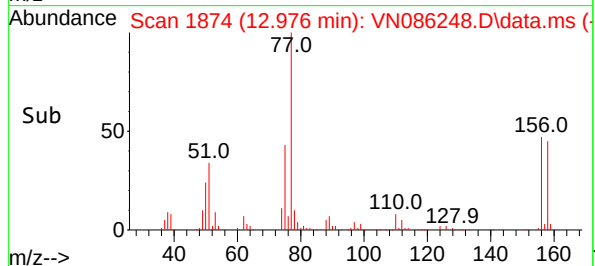
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:156 Resp: 48932
Ion Ratio Lower Upper
156 100
77 251.7 0.0 505.2
158 95.0 0.0 195.0

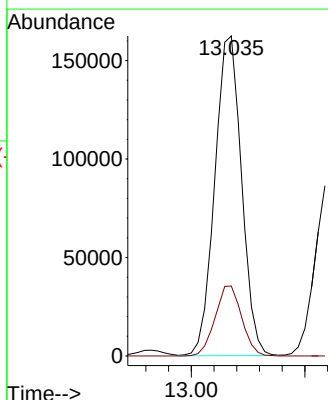
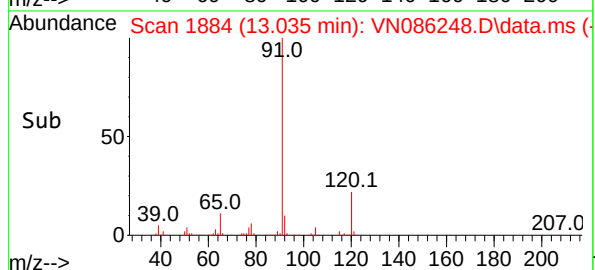
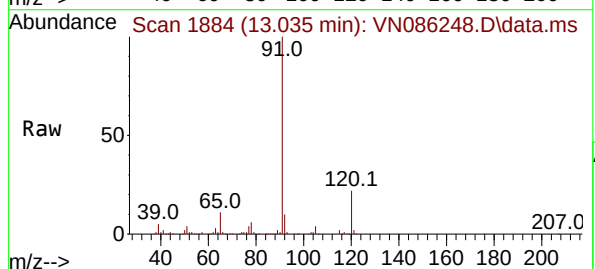
Manual Integrations
APPROVED

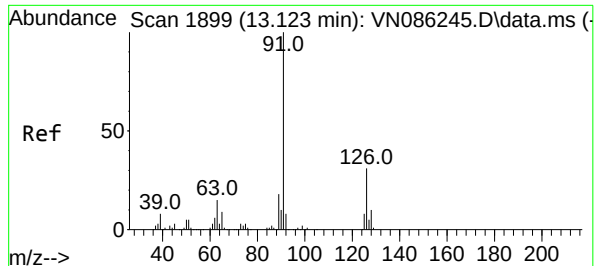
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 20.227 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 265507
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0





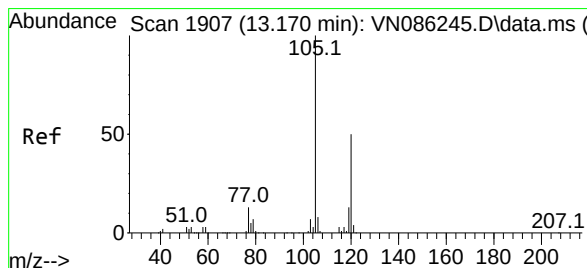
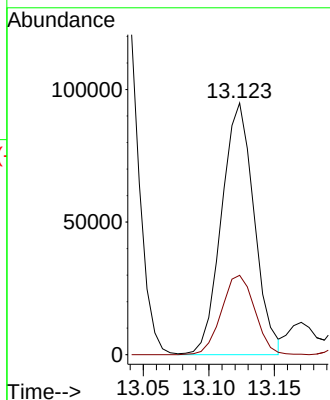
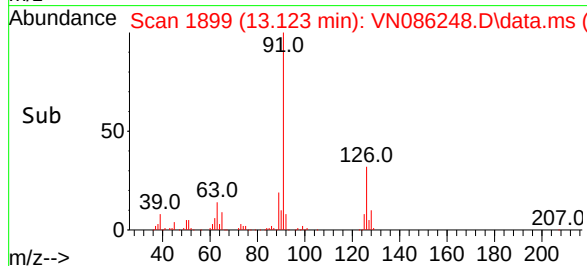
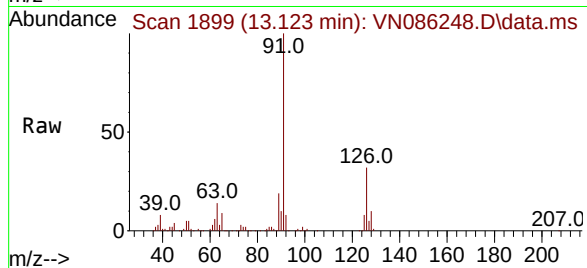
#75
2-Chlorotoluene
Concen: 19.943 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 91 Resp: 164538
Ion Ratio Lower Upper
91 100
126 32.1 0.0 63.4

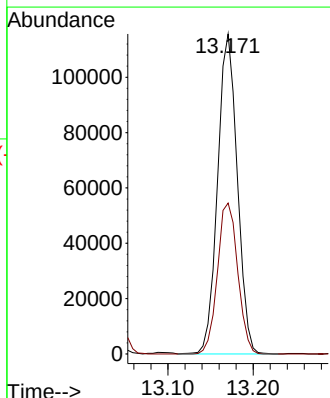
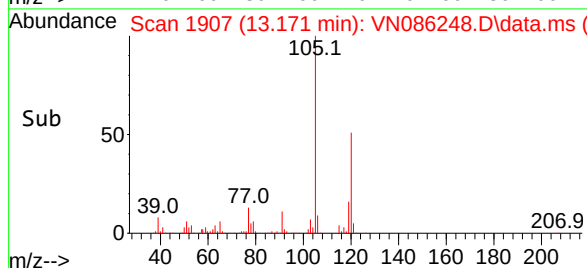
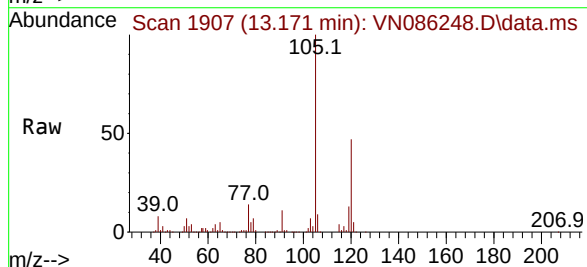
Manual Integrations
APPROVED

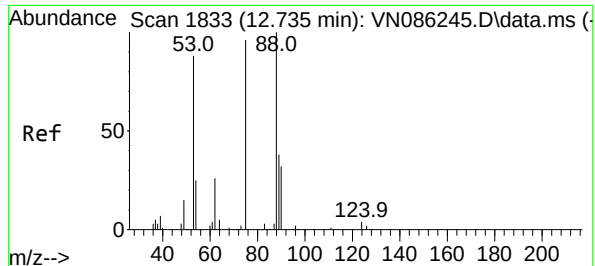
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.354 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:105 Resp: 185869
Ion Ratio Lower Upper
105 100
120 48.5 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 19.590 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 75 Resp: 29750

Ion Ratio Lower Upper

75 100

53 85.0 46.4 139.2

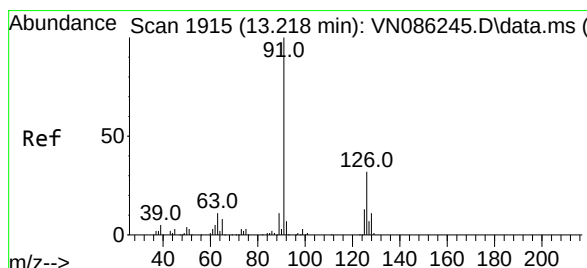
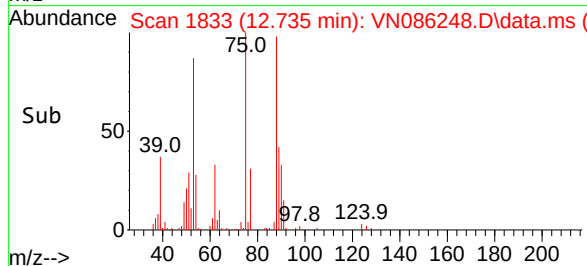
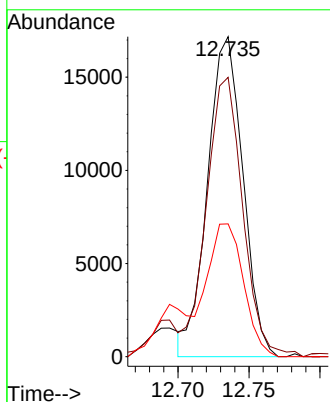
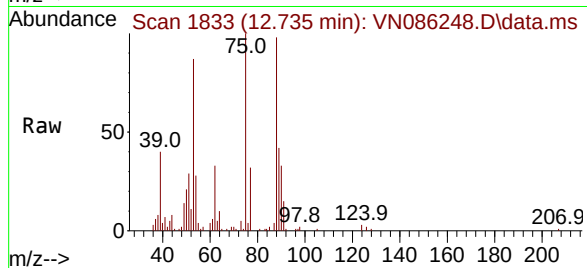
89 41.5 22.5 67.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#78

4-Chlorotoluene

Concen: 19.528 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN086248.D

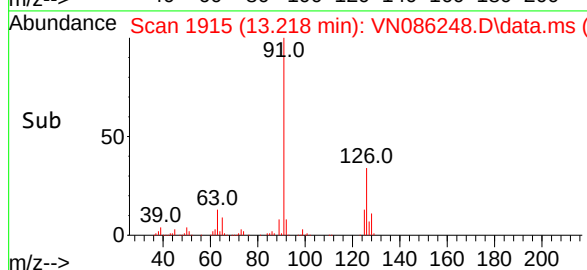
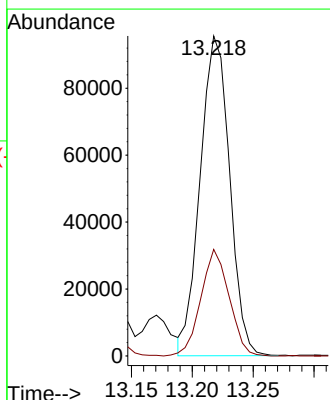
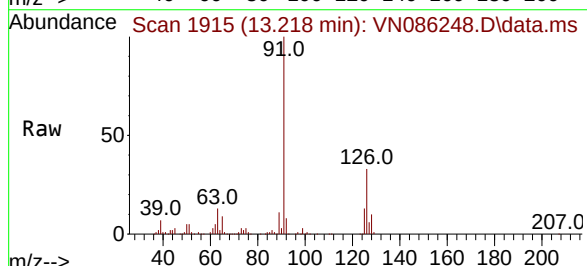
Acq: 11 Apr 2025 13:34

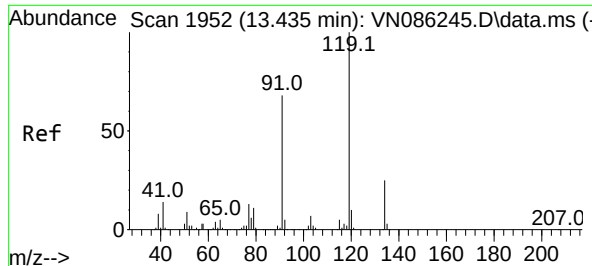
Tgt Ion: 91 Resp: 160908

Ion Ratio Lower Upper

91 100

126 31.9 0.0 63.2





#79

tert-butylbenzene

Concen: 20.021 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion:119 Resp: 158200

Ion Ratio Lower Upper

119 100

91 68.6 0.0 136.6

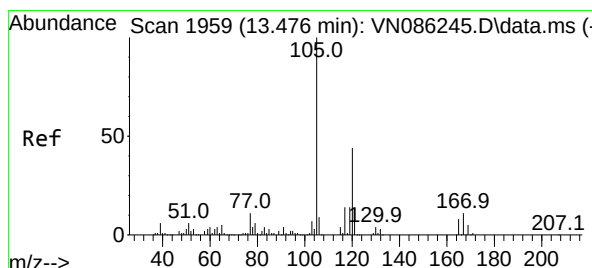
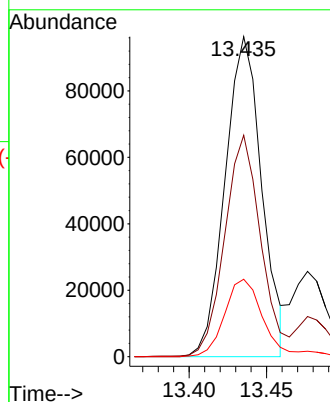
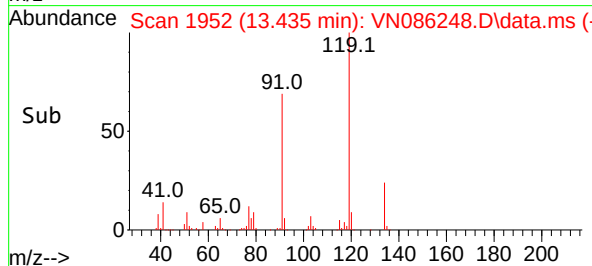
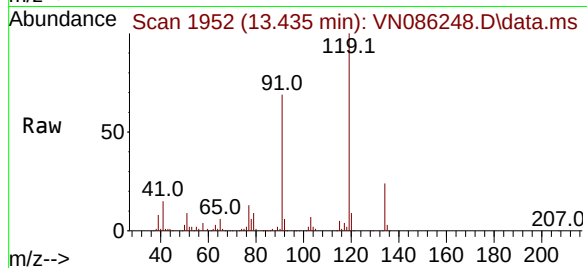
134 24.9 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carbone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 19.981 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086248.D

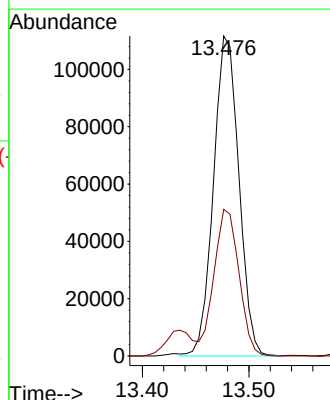
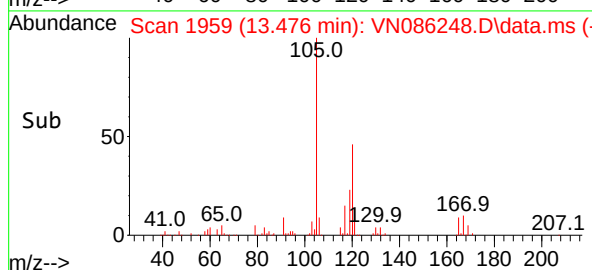
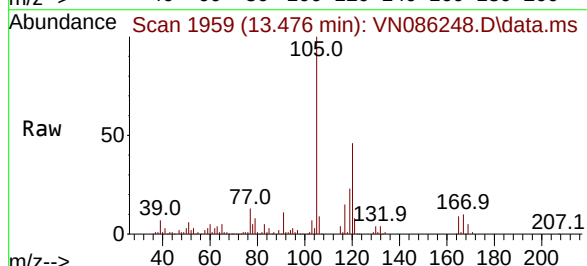
Acq: 11 Apr 2025 13:34

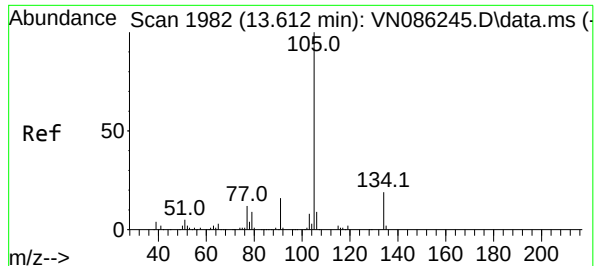
Tgt Ion:105 Resp: 185022

Ion Ratio Lower Upper

105 100

120 44.9 0.0 91.0





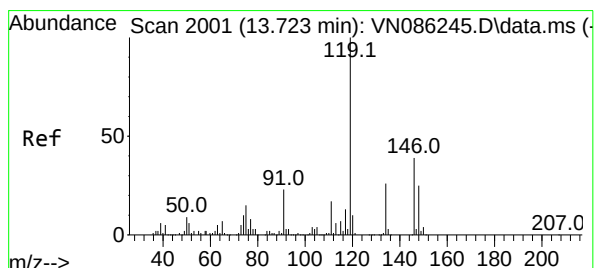
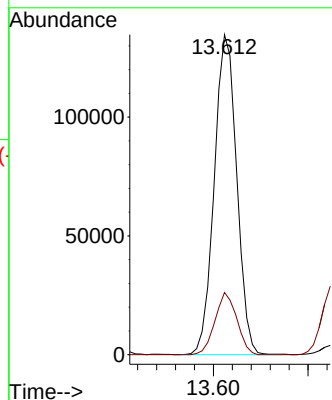
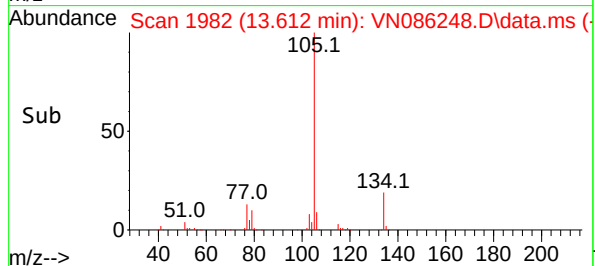
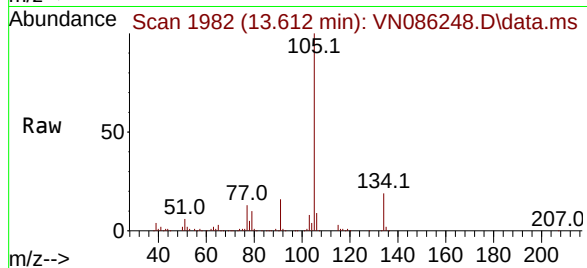
#81
sec-Butylbenzene
Concen: 20.145 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:105 Resp: 22204
Ion Ratio Lower Upper
105 100
134 18.9 0.0 38.6

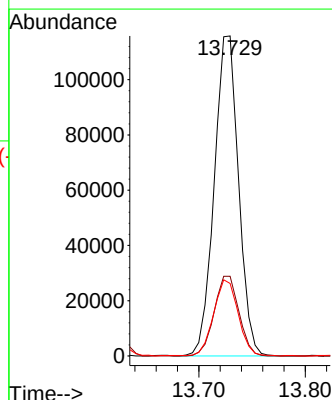
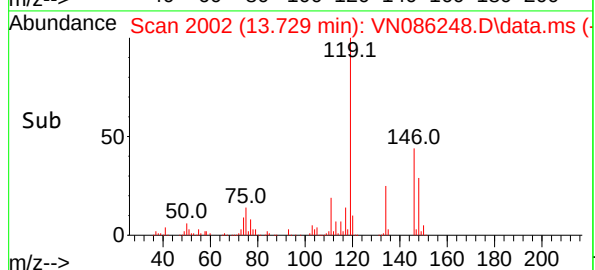
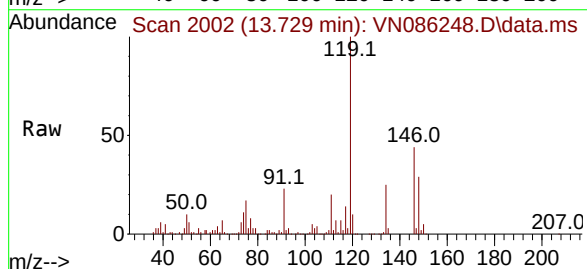
Manual Integrations
APPROVED

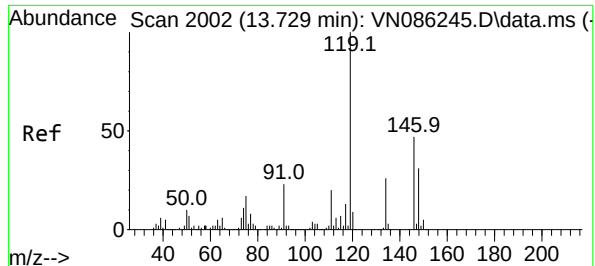
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 19.959 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:119 Resp: 183515
Ion Ratio Lower Upper
119 100
134 25.4 0.0 51.6
91 24.1 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 19.047 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041125

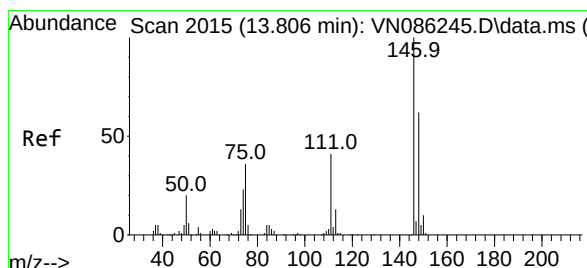
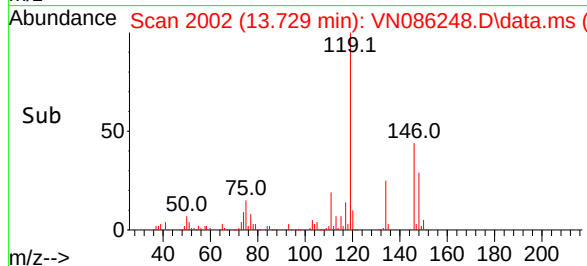
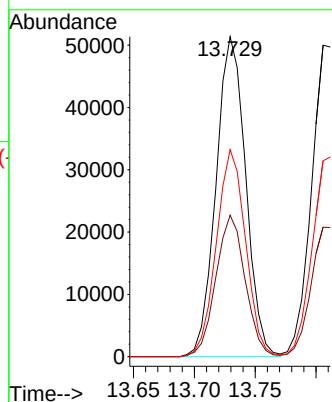
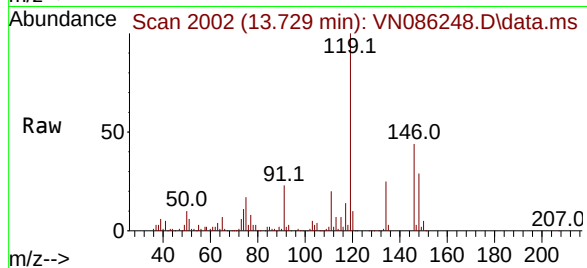
Tgt Ion:146	Resp:	87179
Ion Ratio	Lower	Upper
146	100	
111	43.7	21.7 65.1
148	63.7	32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 18.923 ug/l

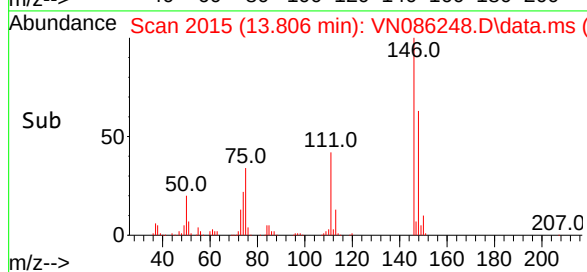
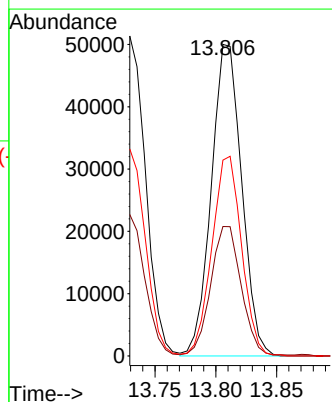
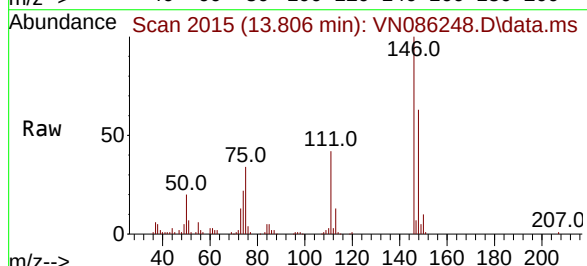
RT: 13.806 min Scan# 2015

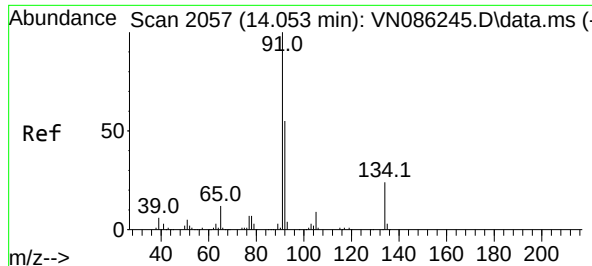
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:146	Resp:	86888
Ion Ratio	Lower	Upper
146	100	
111	41.7	20.8 62.4
148	62.7	31.9 95.5





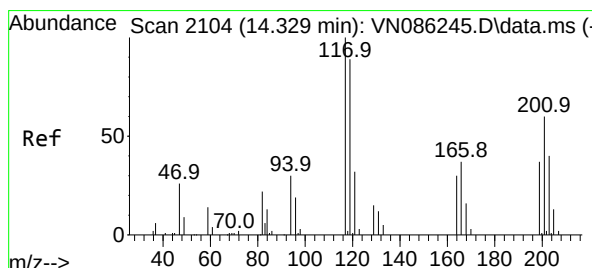
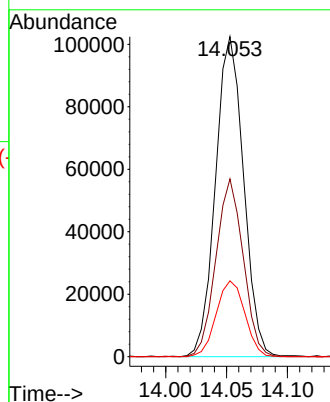
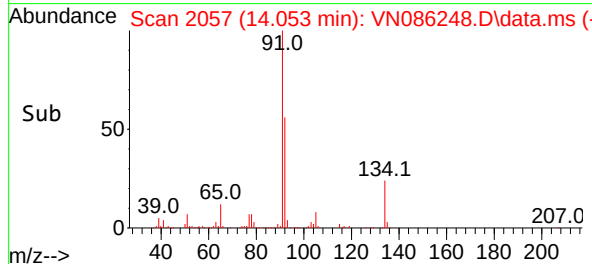
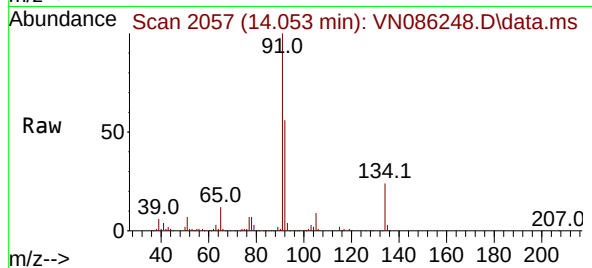
#85
n-Butylbenzene
Concen: 19.828 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 91 Resp: 16447
Ion Ratio Lower Upper
91 100
92 53.9 0.0 109.4
134 24.1 0.0 48.2

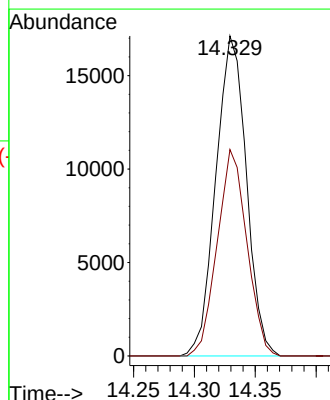
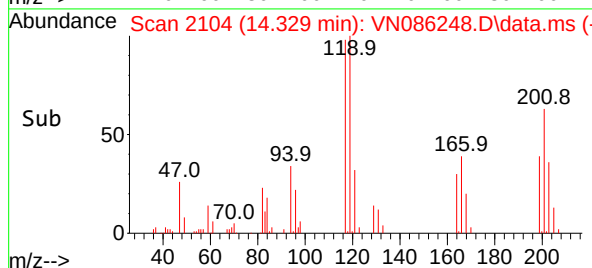
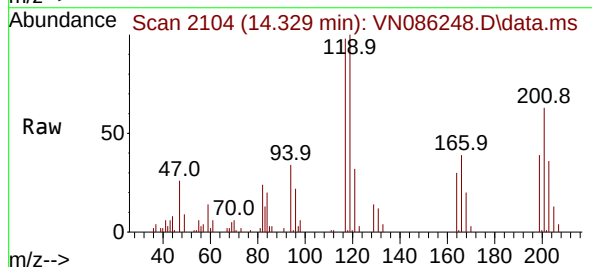
Manual Integrations
APPROVED

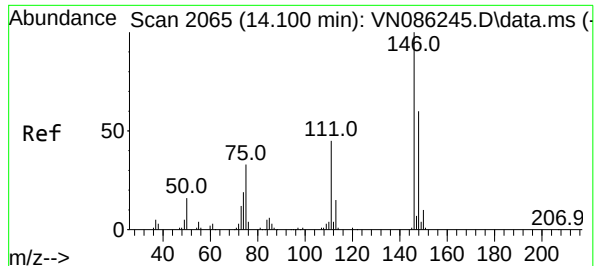
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#86
Hexachloroethane
Concen: 19.245 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:117 Resp: 29849
Ion Ratio Lower Upper
117 100
201 62.7 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 18.727 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

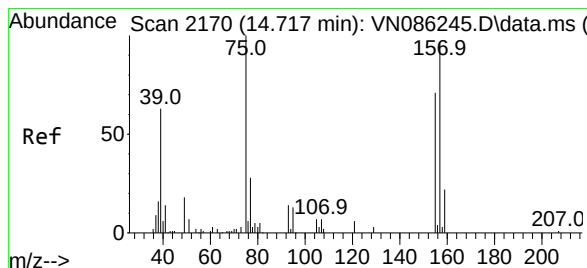
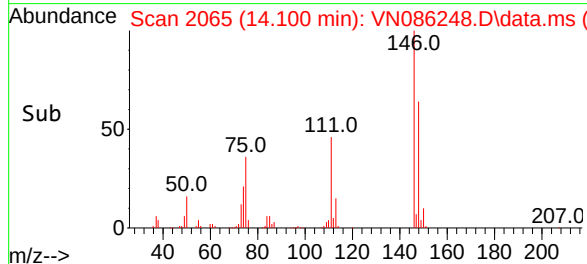
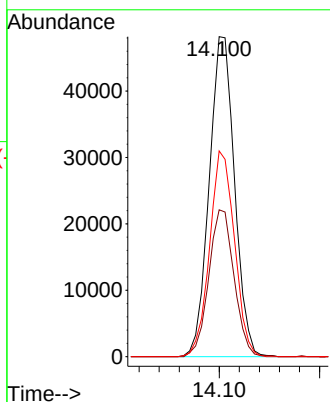
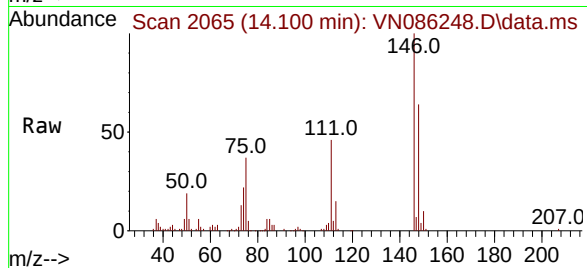
Tgt Ion:	146	Resp:	8463
Ion Ratio	Lower	Upper	
146	100		
111	45.8	22.7	68.0
148	63.1	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.109 ug/l

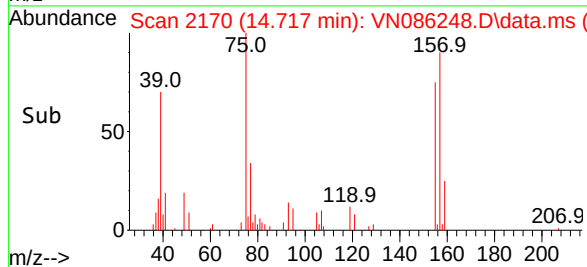
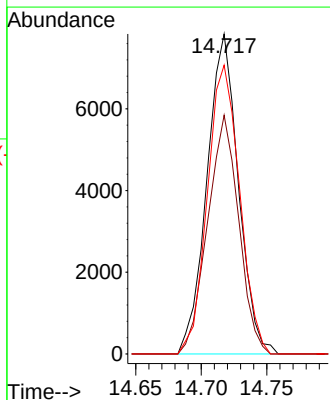
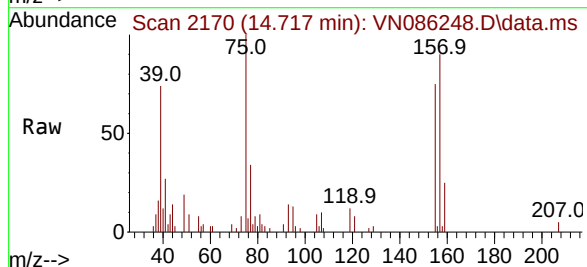
RT: 14.717 min Scan# 2170

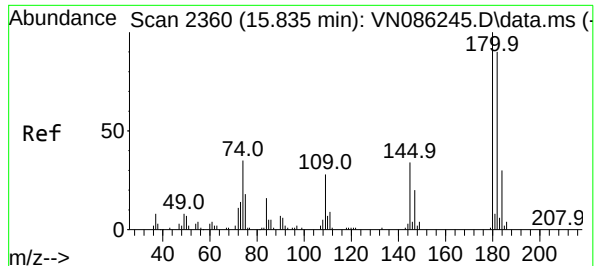
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	75	Resp:	13051
Ion Ratio	Lower	Upper	
75	100		
155	73.8	60.3	90.5
157	92.5	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 18.826 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

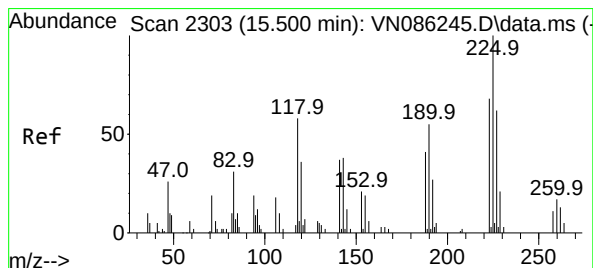
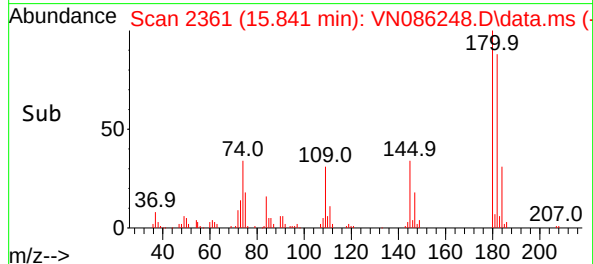
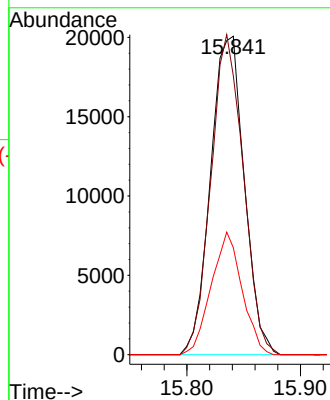
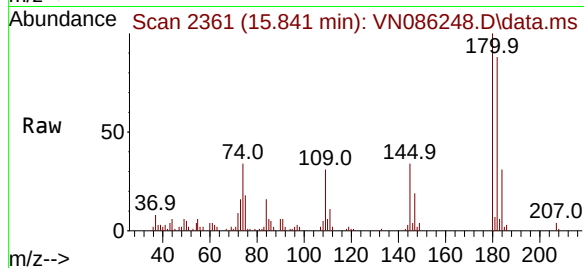
ICVVN041125

Tgt Ion:	180	Resp:	41390
Ion Ratio	Lower	Upper	
180	100		
182	96.3	75.1	112.7
145	35.2	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 17.262 ug/l

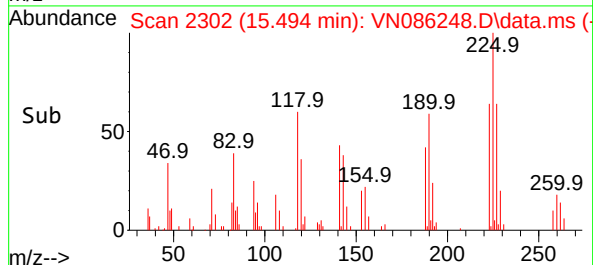
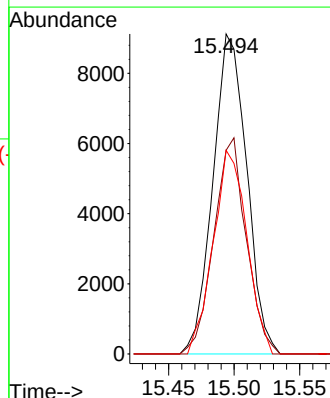
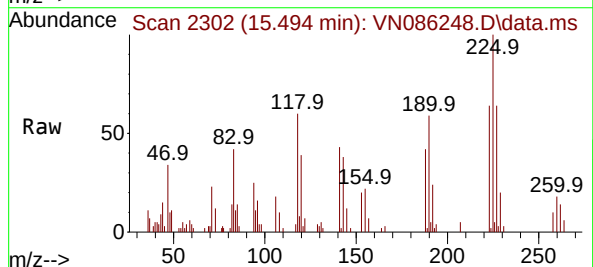
RT: 15.494 min Scan# 2302

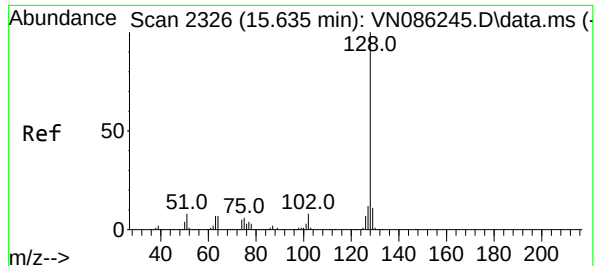
Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

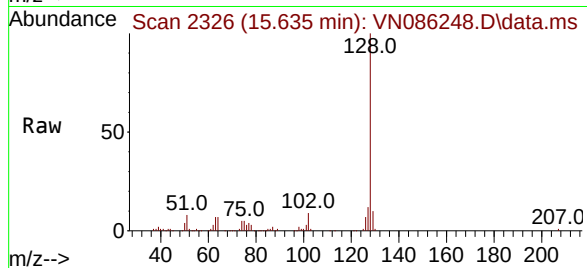
Tgt Ion:	225	Resp:	16389
Ion Ratio	Lower	Upper	
225	100		
223	64.7	0.0	130.0
227	63.3	0.0	123.2





#91
Naphthalene
Concen: 18.155 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

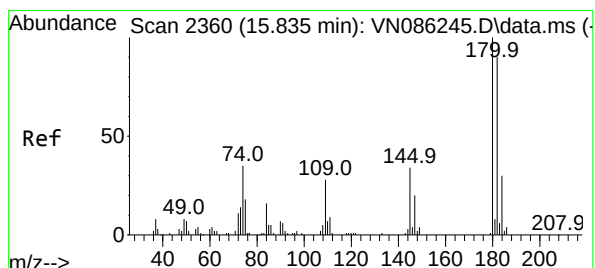
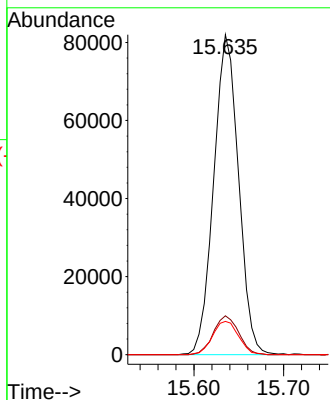
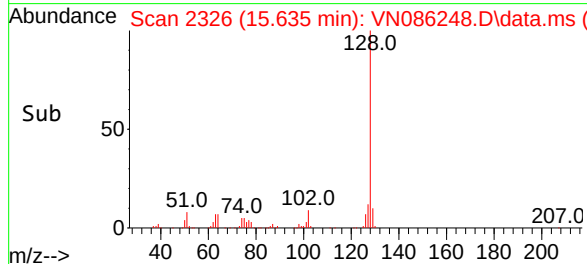
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:128 Resp: 157404
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.9 8.8 13.2

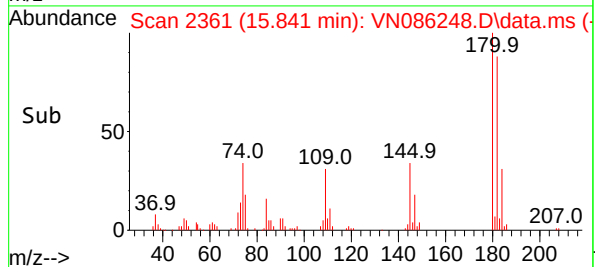
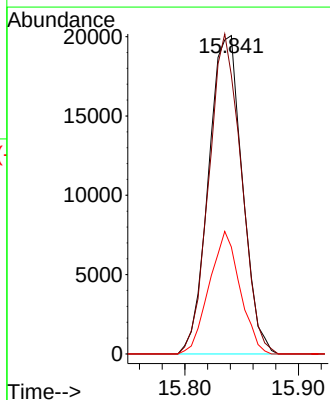
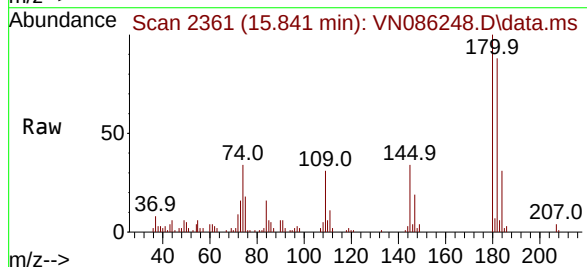
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 18.826 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:180 Resp: 41396
Ion Ratio Lower Upper
180 100
182 96.3 0.0 187.8
145 35.2 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 M	Dichlorodifluoromethane	2.404	2.591	-7.8	112	0.00
3 M	Chloromethane	3.322	3.360	-1.1	109	0.00
4 M	Vinyl Chloride	3.164	3.200	-1.1	107	0.00
5 M	Bromomethane	1.578	1.593	-1.0	108	0.00
6 M	Chloroethane	1.998	2.062	-3.2	111	0.00
7 M	Trichlorofluoromethane	3.433	3.514	-2.4	110	0.00
8 T	Diethyl Ether	1.583	1.605	-1.4	109	0.00
9	1,1,2-Trichlorotrifluoroeth	2.117	2.123	-0.3	107	0.00
10 M	1,1-Dichloroethene	2.284	2.299	-0.7	107	0.00
11	Methyl Iodide	2.626	2.645	-0.7	108	0.00
12	Methyl Acetate	3.226	3.101	3.9	105	0.00
13 M	Acrolein	0.367	0.328	10.6	122	0.00
14 M	Acrylonitrile	1.362	1.307	4.0	102	0.00
15 M	Acetone	0.345	0.324	6.1	99	0.00
16 M	Carbon Disulfide	6.550	6.700	-2.3	107	0.00
17	Allyl chloride	3.981	4.141	-4.0	112	0.00
18 M	Methylene Chloride	2.605	2.626	-0.8	110	0.00
19 M	trans-1,2-Dichloroethene	2.406	2.363	1.8	107	0.00
20 T	Diisopropyl ether	8.560	8.854	-3.4	110	0.00
21 M	1,1-Dichloroethane	4.567	4.699	-2.9	108	0.00
22 M	cis-1,2-Dichloroethene	2.866	2.891	-0.9	108	0.00
23 M	tert-Butyl Alcohol	0.564	0.546	3.2	100	0.00
24 M	Methyl tert-Butyl Ether	8.244	8.331	-1.1	109	0.00
25 M	Chloroform	4.355	4.502	-3.4	110	0.00
26	Cyclohexane	4.273	4.254	0.4	108	0.00
27 s	1,2-Dichloroethane-d4	2.926	2.904	0.8	100	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
29	1,1-Dichloropropene	0.537	0.547	-1.9	108	0.00
30 M	2-Butanone	0.298	0.295	1.0	103	0.00
31	2,2-Dichloropropane	0.662	0.698	-5.4	111	0.00
32 M	1,1,1-Trichloroethane	0.618	0.620	-0.3	107	0.00
33 M	Carbon Tetrachloride	0.494	0.503	-1.8	108	0.00
34 M	Benzene	1.710	1.754	-2.6	109	0.00
35	Methacrylonitrile	0.336	0.332	1.2	106	0.00
36 M	1,2-Dichloroethane	0.535	0.545	-1.9	108	0.00
37 M	Trichloroethene	0.413	0.409	1.0	105	0.00
38	Methylcyclohexane	0.659	0.664	-0.8	109	0.00
39 M	1,2-Dichloropropane	0.425	0.440	-3.5	110	0.00
40	Dibromomethane	0.275	0.270	1.8	105	0.00
41 M	Bromodichloromethane	0.590	0.599	-1.5	108	0.00
42 M	Vinyl Acetate	1.014	1.050	-3.6	107	0.00
43	Ethyl Acetate	0.601	0.602	-0.2	104	0.00
44	Isopropyl Acetate	1.114	1.130	-1.4	109	0.00
45 T	1,4-Dioxane	0.009	0.008	11.1	97	0.00
46	Methyl methacrylate	0.491	0.490	0.2	106	0.00
47	n-amyl Acetate	0.883	0.865	2.0	107	0.00
48 M	t-1,3-Dichloropropene	0.667	0.674	-1.0	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.706	0.727	-3.0	109	0.00
50 M	1,1,2-Trichloroethane	0.385	0.380	1.3	104	0.00
51	Ethyl methacrylate	0.716	0.725	-1.3	108	0.00
52	1,3-Dichloropropane	0.687	0.694	-1.0	109	0.00
53 M	Dibromochloromethane	0.422	0.420	0.5	105	0.00
54 M	1,2-Dibromoethane	0.389	0.384	1.3	105	0.00
55 M	2-Chloroethyl vinyl ether	0.271	0.360	-32.8#	113	0.00
56 M	Bromoform	0.276	0.267	3.3	103	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
58 M	4-Methyl-2-Pentanone	0.681	0.690	-1.3	104	0.00
59 M	2-Hexanone	0.507	0.514	-1.4	105	0.00
60 S	4-Bromofluorobenzene	0.597	0.587	1.7	100	0.00
61 M	Tetrachloroethene	0.443	0.447	-0.9	107	0.00
62 M	Toluene	2.012	2.069	-2.8	108	0.00
63 S	Toluene-d8	1.694	1.687	0.4	99	0.00
64 M	Chlorobenzene	1.229	1.255	-2.1	108	0.00
65	1,1,1,2-Tetrachloroethane	0.406	0.417	-2.7	108	0.00
66 M	Ethyl Benzene	2.232	2.269	-1.7	107	0.00
67 M	m/p-Xylenes	0.830	0.843	-1.6	108	0.00
68 M	o-Xylene	0.816	0.838	-2.7	109	0.00
69 M	Styrene	1.376	1.396	-1.5	109	0.00
70	Isopropylbenzene	2.012	2.040	-1.4	108	0.00
71 M	1,1,2,2-Tetrachloroethane	0.573	0.588	-2.6	107	0.00
72	1,2,3-Trichloropropane	0.596	0.582	2.3	104	0.00
73	Bromobenzene	0.446	0.443	0.7	105	0.00
74	n-propylbenzene	2.376	2.403	-1.1	109	0.00
75	2-Chlorotoluene	1.494	1.489	0.3	107	0.00
76	1,3,5-Trimethylbenzene	1.653	1.682	-1.8	108	0.00
77	t-1,4-Dichloro-2-butene	0.275	0.269	2.2	104	0.00
78	4-Chlorotoluene	1.492	1.456	2.4	106	0.00
79	tert-butylbenzene	1.430	1.432	-0.1	107	0.00
80	1,2,4-Trimethylbenzene	1.676	1.675	0.1	106	0.00
81	sec-Butylbenzene	1.995	2.010	-0.8	106	0.00
82	p-Isopropyltoluene	1.664	1.661	0.2	106	0.00
83 M	1,3-Dichlorobenzene	0.829	0.789	4.8	103	0.00
84 M	1,4-Dichlorobenzene	0.831	0.786	5.4	102	0.00
85	n-Butylbenzene	1.502	1.489	0.9	106	0.00
86 T	Hexachloroethane	0.281	0.270	3.9	103	0.00
87 M	1,2-Dichlorobenzene	0.818	0.766	6.4	100	0.00
88	1,2-Dibromo-3-Chloropropane	0.130	0.118	9.2	93	0.00
89	1,2,4-Trichlorobenzene	0.398	0.375	5.8	94	0.00
90	Hexachlorobutadiene	0.172	0.148	14.0	90	0.00
91 M	Naphthalene	1.569	1.425	9.2	93	0.00
92	1,2,3-Trichlorobenzene	0.398	0.375	5.8	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	100	0.00
2 M	Dichlorodifluoromethane	20.000	21.563	-7.8	112	0.00
3 M	Chloromethane	20.000	20.226	-1.1	109	0.00
4 M	Vinyl Chloride	20.000	20.223	-1.1	107	0.00
5 M	Bromomethane	20.000	20.183	-0.9	108	0.00
6 M	Chloroethane	20.000	20.642	-3.2	111	0.00
7 M	Trichlorofluoromethane	20.000	20.473	-2.4	110	0.00
8 T	Diethyl Ether	20.000	20.276	-1.4	109	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.062	-0.3	107	0.00
10 M	1,1-Dichloroethene	20.000	20.128	-0.6	107	0.00
11	Methyl Iodide	20.000	20.148	-0.7	108	0.00
12	Methyl Acetate	20.000	19.227	3.9	105	0.00
13 M	Acrolein	100.000	89.375	10.6	122	0.00
14 M	Acrylonitrile	100.000	95.988	4.0	102	0.00
15 M	Acetone	100.000	93.868	6.1	99	0.00
16 M	Carbon Disulfide	20.000	20.456	-2.3	107	0.00
17	Allyl chloride	20.000	20.801	-4.0	112	0.00
18 M	Methylene Chloride	20.000	20.166	-0.8	110	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.638	1.8	107	0.00
20 T	Diisopropyl ether	20.000	20.688	-3.4	110	0.00
21 M	1,1-Dichloroethane	20.000	20.578	-2.9	108	0.00
22 M	cis-1,2-Dichloroethene	20.000	20.174	-0.9	108	0.00
23 M	tert-Butyl Alcohol	100.000	96.723	3.3	100	0.00
24 M	Methyl tert-Butyl Ether	20.000	20.211	-1.1	109	0.00
25 M	Chloroform	20.000	20.677	-3.4	110	0.00
26	Cyclohexane	20.000	19.913	0.4	108	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.777	0.7	100	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	102	0.00
29	1,1-Dichloropropene	20.000	20.373	-1.9	108	0.00
30 M	2-Butanone	100.000	98.995	1.0	103	0.00
31	2,2-Dichloropropane	20.000	21.111	-5.6	111	0.00
32 M	1,1,1-Trichloroethane	20.000	20.044	-0.2	107	0.00
33 M	Carbon Tetrachloride	20.000	20.360	-1.8	108	0.00
34 M	Benzene	20.000	20.522	-2.6	109	0.00
35	Methacrylonitrile	20.000	19.764	1.2	106	0.00
36 M	1,2-Dichloroethane	20.000	20.391	-2.0	108	0.00
37 M	Trichloroethene	20.000	19.842	0.8	105	0.00
38	Methylcyclohexane	20.000	20.137	-0.7	109	0.00
39 M	1,2-Dichloropropane	20.000	20.675	-3.4	110	0.00
40	Dibromomethane	20.000	19.681	1.6	105	0.00
41 M	Bromodichloromethane	20.000	20.289	-1.4	108	0.00
42 M	Vinyl Acetate	100.000	103.572	-3.6	107	0.00
43	Ethyl Acetate	20.000	20.054	-0.3	104	0.00
44	Isopropyl Acetate	20.000	20.285	-1.4	109	0.00
45 T	1,4-Dioxane	400.000	369.952	7.5	97	0.00
46	Methyl methacrylate	20.000	19.956	0.2	106	0.00
47	n-amyl Acetate	20.000	19.589	2.1	107	0.00
48 M	t-1,3-Dichloropropene	20.000	20.190	-1.0	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	20.581	-2.9	109	0.00
50 M	1,1,2-Trichloroethane	20.000	19.741	1.3	104	0.00
51	Ethyl methacrylate	20.000	20.259	-1.3	108	0.00
52	1,3-Dichloropropane	20.000	20.216	-1.1	109	0.00
53 M	Dibromochloromethane	20.000	19.923	0.4	105	0.00
54 M	1,2-Dibromoethane	20.000	19.762	1.2	105	0.00
55 M	2-Chloroethyl vinyl ether	100.000	132.990	-33.0#	113	0.00
56 M	Bromoform	20.000	19.359	3.2	103	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	101	0.00
58 M	4-Methyl-2-Pentanone	100.000	101.329	-1.3	104	0.00
59 M	2-Hexanone	100.000	101.451	-1.5	105	0.00
60 S	4-Bromofluorobenzene	30.000	29.482	1.7	100	0.00
61 M	Tetrachloroethene	20.000	20.169	-0.8	107	0.00
62 M	Toluene	20.000	20.568	-2.8	108	0.00
63 S	Toluene-d8	30.000	29.890	0.4	99	0.00
64 M	Chlorobenzene	20.000	20.424	-2.1	108	0.00
65	1,1,1,2-Tetrachloroethane	20.000	20.546	-2.7	108	0.00
66 M	Ethyl Benzene	20.000	20.336	-1.7	107	0.00
67 M	m/p-Xylenes	40.000	40.633	-1.6	108	0.00
68 M	o-Xylene	20.000	20.528	-2.6	109	0.00
69 M	Styrene	20.000	20.281	-1.4	109	0.00
70	Isopropylbenzene	20.000	20.275	-1.4	108	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	20.516	-2.6	107	0.00
72	1,2,3-Trichloropropane	20.000	19.534	2.3	104	0.00
73	Bromobenzene	20.000	19.870	0.6	105	0.00
74	n-propylbenzene	20.000	20.227	-1.1	109	0.00
75	2-Chlorotoluene	20.000	19.943	0.3	107	0.00
76	1,3,5-Trimethylbenzene	20.000	20.354	-1.8	108	0.00
77	t-1,4-Dichloro-2-butene	20.000	19.590	2.1	104	0.00
78	4-Chlorotoluene	20.000	19.528	2.4	106	0.00
79	tert-butylbenzene	20.000	20.021	-0.1	107	0.00
80	1,2,4-Trimethylbenzene	20.000	19.981	0.1	106	0.00
81	sec-Butylbenzene	20.000	20.145	-0.7	106	0.00
82	p-Isopropyltoluene	20.000	19.959	0.2	106	0.00
83 M	1,3-Dichlorobenzene	20.000	19.047	4.8	103	0.00
84 M	1,4-Dichlorobenzene	20.000	18.923	5.4	102	0.00
85	n-Butylbenzene	20.000	19.828	0.9	106	0.00
86 T	Hexachloroethane	20.000	19.245	3.8	103	0.00
87 M	1,2-Dichlorobenzene	20.000	18.727	6.4	100	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	18.109	9.5	93	0.00
89	1,2,4-Trichlorobenzene	20.000	18.826	5.9	94	0.00
90	Hexachlorobutadiene	20.000	17.262	13.7	90	0.00
91 M	Naphthalene	20.000	18.155	9.2	93	0.00
92	1,2,3-Trichlorobenzene	20.000	18.826	5.9	94	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date/Time: 04/11/2025 17:28

Lab File ID: VN086255.D Init. Calib. Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 12:40

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.404	2.329		-3.12	50
Chloromethane	3.322	3.290		-0.96	50
Vinyl Chloride	3.164	3.093	0.1	-2.24	50
Bromomethane	1.578	1.524	0.1	-3.42	50
Chloroethane	1.998	1.989		-0.45	50
Trichlorofluoromethane	3.433	3.320		-3.29	50
1,1,2-Trichlorotrifluoroethane	2.117	1.981		-6.42	50
1,1-Dichloroethene	2.284	2.142	0.1	-6.22	50
Acrolein	0.367	0.303		-17.44	50
Acrylonitrile	1.362	1.283		-5.8	50
Acetone	0.345	0.315		-8.7	50
Carbon Disulfide	6.550	6.271		-4.26	50
Methyl tert-Butyl Ether	8.244	7.740		-6.11	50
Methyl Acetate	3.226	2.973		-7.84	50
Methylene Chloride	2.605	2.476		-4.95	50
trans-1,2-Dichloroethene	2.406	2.267		-5.78	50
1,1-Dichloroethane	4.567	4.406	0.2	-3.53	50
Cyclohexane	0.705	0.688		-2.41	50
2-Butanone	0.298	0.289		-3.02	50
Carbon Tetrachloride	0.494	0.480	0.1	-2.83	50
2,2-Dichloropropane	0.662	0.630		-4.83	50
cis-1,2-Dichloroethene	2.866	2.731		-4.71	50
Chloroform	4.355	4.229	0.2	-2.89	50
1,1,1-Trichloroethane	0.618	0.613	0.1	-0.81	50
Methylcyclohexane	0.659	0.623		-5.46	50
1,1-Dichloropropene	0.537	0.536		-0.19	50
Benzene	1.710	1.702	0.5	-0.47	50
1,2-Dichloroethane	0.535	0.527	0.1	-1.5	50
Trichloroethene	0.413	0.390	0.3	-5.57	50
1,2-Dichloropropane	0.425	0.419		-1.41	50
Dibromomethane	0.275	0.273		-0.73	50
Bromodichloromethane	0.590	0.577	0.2	-2.2	50
4-Methyl-2-Pentanone	0.681	0.675		-0.88	50
Toluene	2.012	2.024	0.4	0.6	50
t-1,3-Dichloropropene	0.667	0.639	0.1	-4.2	50
cis-1,3-Dichloropropene	0.706	0.700	0.2	-0.85	50
1,1,2-Trichloroethane	0.385	0.372	0.1	-3.38	50
1,3-Dichloropropane	0.687	0.678		-1.31	50

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: TETR06

Lab Code: CHEM Case No.: Q1774 SAS No.: Q1774 SDG No.: Q1774

Instrument ID: MSVOA_N Calibration Date/Time: 04/11/2025 17:28

Lab File ID: VN086255.D Init. Calib. Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 12:40

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.507	0.497		-1.97	50
Dibromochloromethane	0.422	0.409	0.1	-3.08	50
1,2-Dibromoethane	0.389	0.381		-2.06	50
Tetrachloroethene	0.443	0.436	0.2	-1.58	50
Chlorobenzene	1.229	1.213	0.5	-1.3	50
1,1,1,2-Tetrachloroethane	0.406	0.409		0.74	50
Hexachloroethane	0.281	0.270		-3.91	50
Ethyl Benzene	2.232	2.191	0.1	-1.84	50
m/p-Xylenes	0.830	0.800	0.3	-3.61	50
o-Xylene	0.816	0.819	0.3	0.37	50
Styrene	1.376	1.320	0.3	-4.07	50
Bromoform	0.276	0.256	0.1	-7.25	50
Isopropylbenzene	2.012	1.938		-3.68	50
1,1,2,2-Tetrachloroethane	0.573	0.586	0.3	2.27	50
1,2,3-Trichloropropane	0.596	0.572		-4.03	50
Bromobenzene	0.446	0.429		-3.81	50
n-propylbenzene	2.376	2.251		-5.26	50
2-Chlorotoluene	1.494	1.457		-2.48	50
1,3,5-Trimethylbenzene	1.653	1.573		-4.84	50
4-Chlorotoluene	1.492	1.416		-5.09	50
tert-butylbenzene	1.430	1.362		-4.76	50
1,2,4-Trimethylbenzene	1.676	1.585		-5.43	50
sec-Butylbenzene	1.995	1.884		-5.56	50
p-Isopropyltoluene	1.664	1.531		-7.99	50
1,3-Dichlorobenzene	0.829	0.766	0.2	-7.6	50
1,4-Dichlorobenzene	0.831	0.752	0.2	-9.51	50
n-Butylbenzene	1.502	1.334		-11.19	50
1,2-Dichlorobenzene	0.818	0.769	0.2	-5.99	50
1,2-Dibromo-3-Chloropropane	0.130	0.116		-10.77	50
1,2,4-Trichlorobenzene	0.398	0.331	0.2	-16.83	50
Hexachlorobutadiene	0.172	0.126		-26.74	50
Naphthalene	1.569	1.309		-16.57	50
1,2,3-Trichlorobenzene	0.398	0.331		-16.83	50
1,2-Dichloroethane-d4	2.926	2.837	0.01	-3.04	50
Toluene-d8	1.694	1.736	0.01	2.48	50
4-Bromofluorobenzene	0.597	0.593	0.2	-0.67	50
Methyl Iodide	2.626	2.513		-4.3	50
Methyl methacrylate	0.491	0.468		-4.68	50

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\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	18884	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	109876	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	95362	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	53571	29.085	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.933%		
60) 4-Bromofluorobenzene	12.847	95	56553	29.786	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.300%		
63) Toluene-d8	10.565	98	165558	30.752	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.500%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	29320	19.378	ug/l	99
3) Chloromethane	2.359	50	41417	19.805	ug/l	95
4) Vinyl Chloride	2.518	62	38937	19.548	ug/l	99
5) Bromomethane	2.971	94	19187	19.311	ug/l	99
6) Chloroethane	3.130	64	25042	19.909	ug/l	99
7) Trichlorofluoromethane	3.501	101	41794	19.342	ug/l	98
8) Diethyl Ether	3.965	74	18888	18.955	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	24936	18.715	ug/l	96
10) 1,1-Dichloroethene	4.348	96	26966	18.753	ug/l	98
11) Methyl Iodide	4.583	142	31641	19.145	ug/l	94
12) Methyl Acetate	5.030	43	37430	18.433	ug/l	97
13) Acrolein	4.183	56	19090	82.706	ug/l	97
14) Acrylonitrile	5.718	53	80784	94.238	ug/l	99
15) Acetone	4.424	58	19847	91.311	ug/l	90
16) Carbon Disulfide	4.718	76	78952	19.148	ug/l	97
17) Allyl chloride	5.030	41	49113	19.596	ug/l	95
18) Methylene Chloride	5.277	84	31167	19.010	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	28540	18.843	ug/l	99
20) Diisopropyl ether	6.671	45	95774	17.775	ug/l	97
21) 1,1-Dichloroethane	6.571	63	55465	19.295	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	34384	19.057	ug/l	99
23) tert-Butyl Alcohol	5.512	59	31875	89.739	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	97437	18.777	ug/l	98
25) Chloroform	7.965	83	53242	19.423	ug/l	93
26) Cyclohexane	8.253	56	50381	18.733	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	39298	19.965	ug/l	99
30) 2-Butanone	7.477	43	105674	96.889	ug/l	99
31) 2,2-Dichloropropane	7.489	77	46144	19.045	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	44888	19.825	ug/l	99
33) Carbon Tetrachloride	8.359	117	35183	19.444	ug/l	96
34) Benzene	8.600	78	124673	19.909	ug/l	97
35) Methacrylonitrile	7.777	41	25486	20.728	ug/l	98
36) 1,2-Dichloroethane	8.671	62	38614	19.705	ug/l	97
37) Trichloroethene	9.347	130	28562	18.904	ug/l	95
38) Methylcyclohexane	9.594	83	45627	18.901	ug/l	99
39) 1,2-Dichloropropane	9.618	63	30685	19.693	ug/l	94
40) Dibromomethane	9.706	93	20002	19.875	ug/l	100
41) Bromodichloromethane	9.888	83	42242	19.539	ug/l	100
42) Vinyl Acetate	6.600	43	378299	101.896	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:51:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 01:21:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	37557	17.072	ug/l #	93
44) Isopropyl Acetate	8.683	43	79656	19.518	ug/l	100
45) 1,4-Dioxane	9.694	88	12723	392.047	ug/l #	93
46) Methyl methacrylate	9.677	41	34286	19.067	ug/l	98
47) n-amyl Acetate	12.488	43	57635	17.812	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	46804	19.149	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	51256	19.814	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	27268	19.319	ug/l	97
51) Ethyl methacrylate	10.871	69	49228	18.768	ug/l	95
52) 1,3-Dichloropropane	11.159	76	49662	19.740	ug/l	99
53) Dibromochloromethane	11.353	129	29962	19.406	ug/l	99
54) 1,2-Dibromoethane	11.465	107	27931	19.603	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	98312	99.189	ug/l	99
56) Bromoform	12.576	173	18754	18.566	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	214641	99.184	ug/l	99
59) 2-Hexanone	11.194	43	158086	98.104	ug/l	99
61) Tetrachloroethene	11.100	164	27738	19.697	ug/l	98
62) Toluene	10.624	91	128682	20.118	ug/l	100
64) Chlorobenzene	11.888	112	77123	19.736	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	26021	20.177	ug/l	98
66) Ethyl Benzene	11.959	91	139309	19.639	ug/l	98
67) m/p-Xylenes	12.071	106	101714	38.563	ug/l	98
68) o-Xylene	12.394	106	52037	20.058	ug/l	98
69) Styrene	12.406	104	83949	19.187	ug/l	99
70) Isopropylbenzene	12.694	105	123201	19.260	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	37233	20.449	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	36376m	19.193	ug/l	
73) Bromobenzene	12.976	156	27272	19.245	ug/l	99
74) n-propylbenzene	13.029	91	143093	18.944	ug/l	100
75) 2-Chlorotoluene	13.123	91	92645	19.514	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	99973	19.025	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	16490	18.869	ug/l	92
78) 4-Chlorotoluene	13.218	91	90011	18.983	ug/l	98
79) tert-butylbenzene	13.435	119	86567	19.039	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	100765	18.911	ug/l	100
81) sec-Butylbenzene	13.612	105	119744	18.880	ug/l	99
82) p-Isopropyltoluene	13.729	119	97324	18.394	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	48725	18.499	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	47819	18.098	ug/l	98
85) n-Butylbenzene	14.053	91	84791	17.764	ug/l	98
86) Hexachloroethane	14.329	117	17164	19.231	ug/l	96
87) 1,2-Dichlorobenzene	14.100	146	48868	18.791	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	7385	17.808	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	21063	16.646	ug/l	98
90) Hexachlorobutadiene	15.494	225	8007	14.656	ug/l	96
91) Naphthalene	15.635	128	83203	16.677	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	21063	16.646	ug/l	98

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

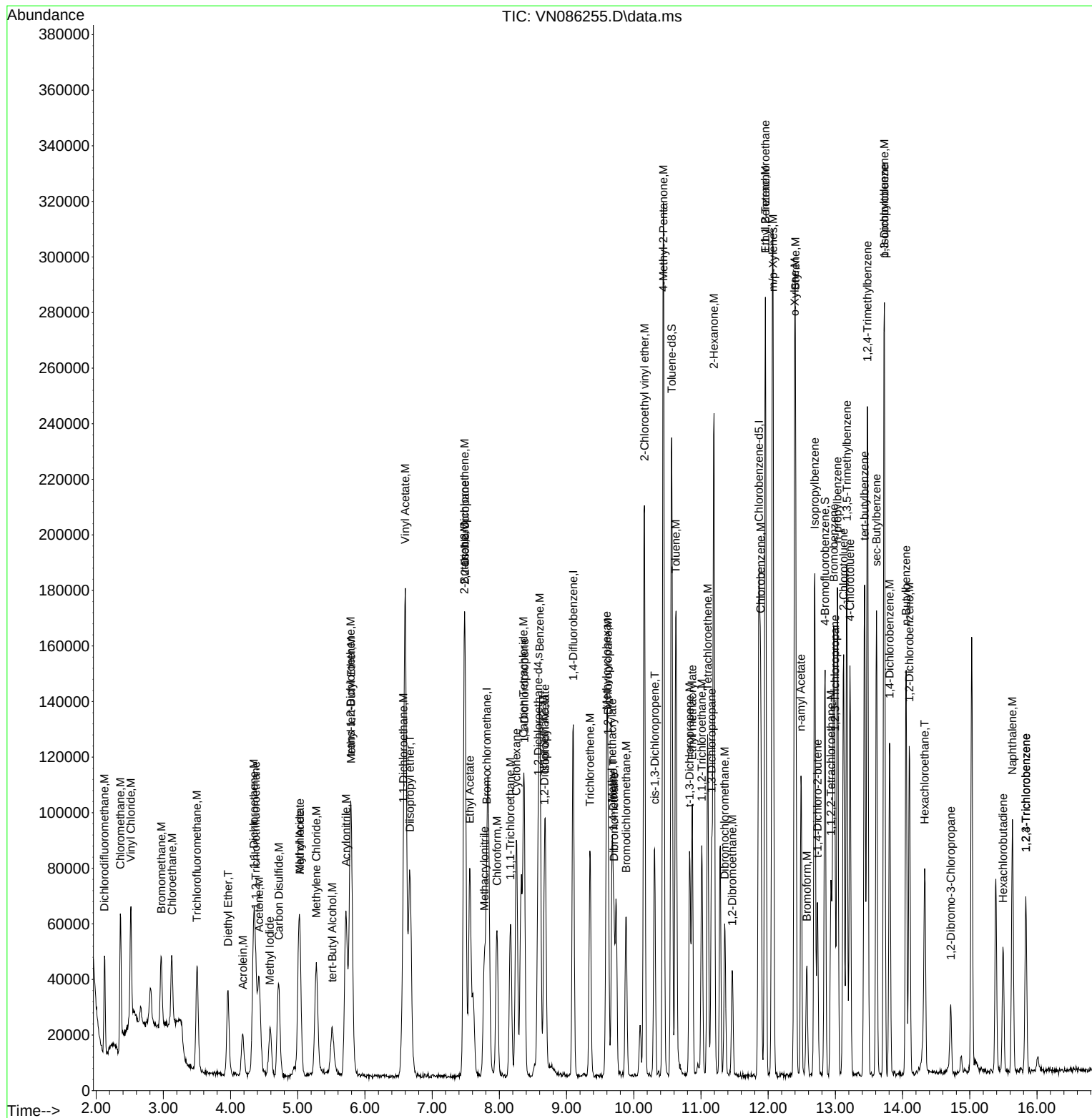

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Acq On    : 11 Apr 2025  17:28  
Operator  : JC\MD  
Sample    : VSTDCCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 15   Sample Multiplier: 1
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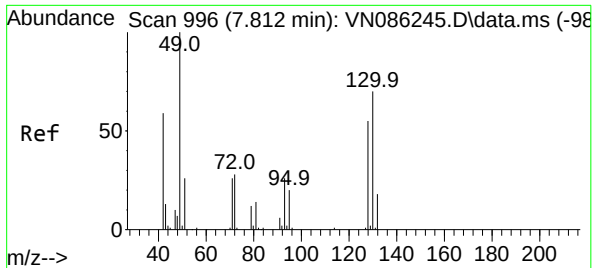
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

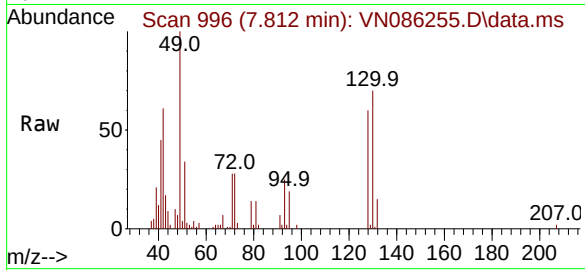
Quant Time: Apr 12 01:51:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

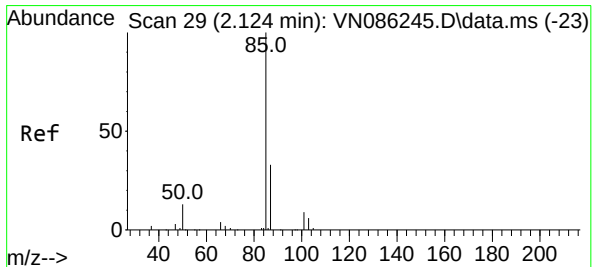
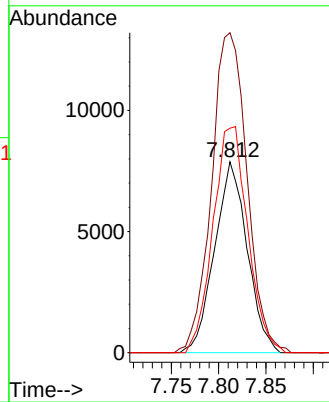
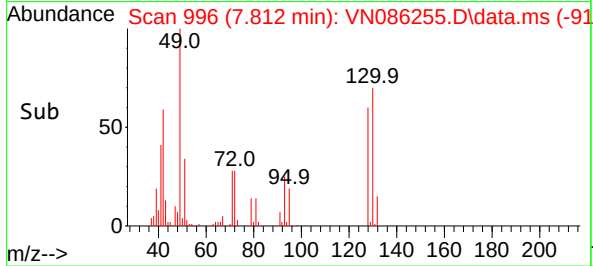
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:128 Resp: 18884
Ion Ratio Lower Upper
128 100
49 182.5 0.0 452.5
130 126.4 0.0 315.0

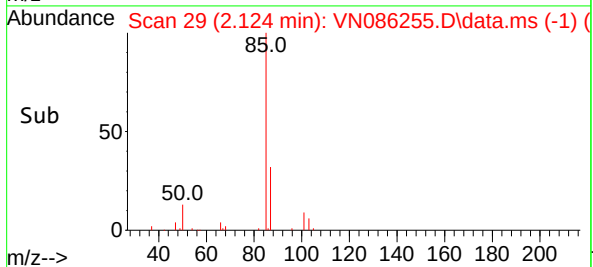
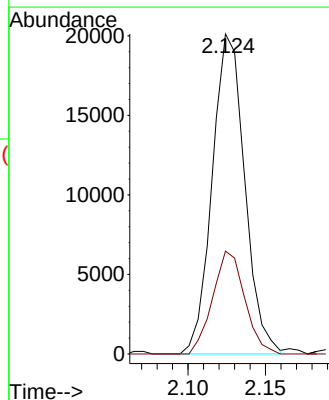
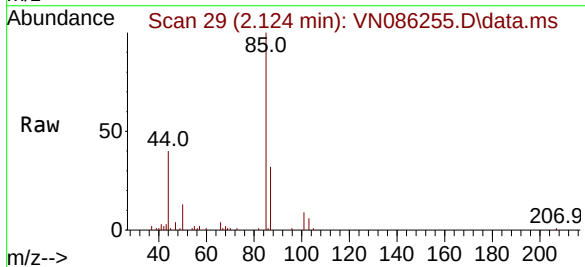
Manual Integrations
APPROVED

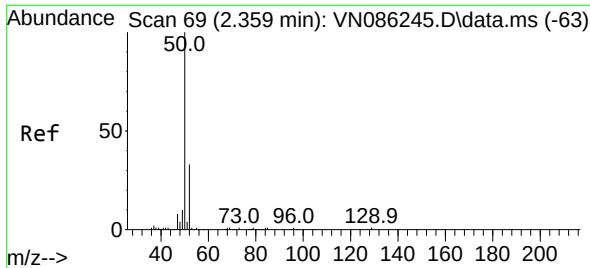
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 19.378 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 85 Resp: 29320
Ion Ratio Lower Upper
85 100
87 32.1 16.3 48.9





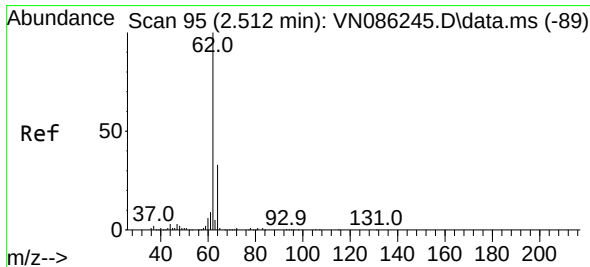
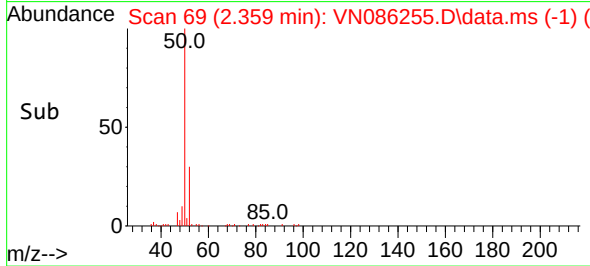
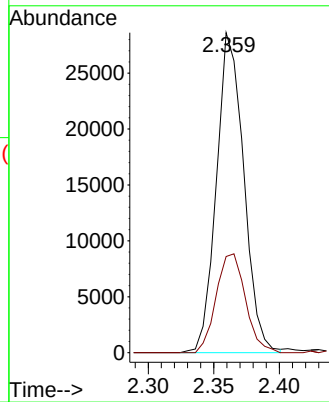
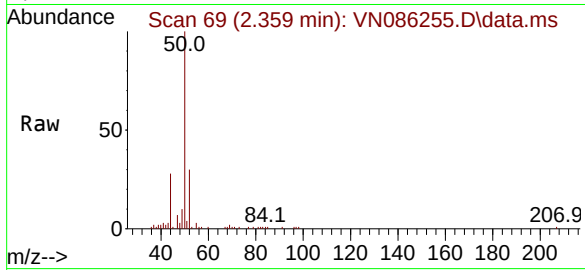
#3
Chloromethane
Concen: 19.805 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 50 Resp: 4141
Ion Ratio Lower Upper
50 100
52 30.1 26.4 39.6

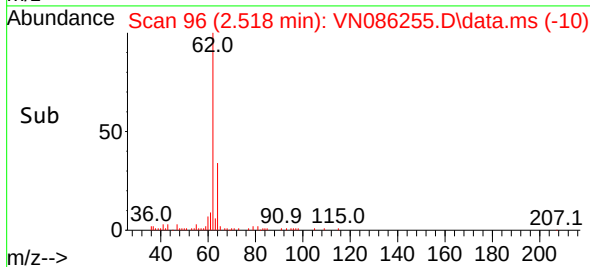
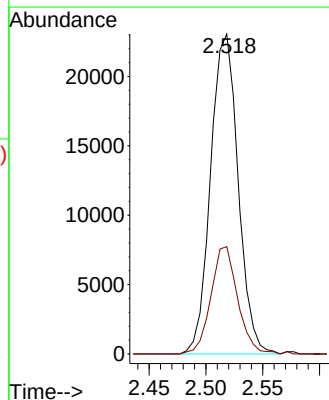
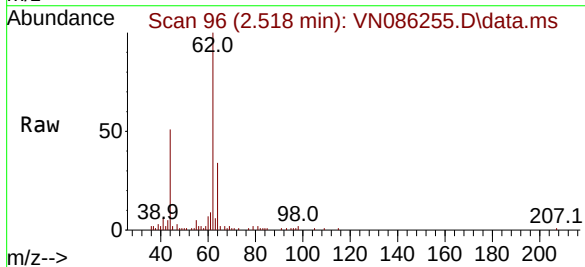
Manual Integrations
APPROVED

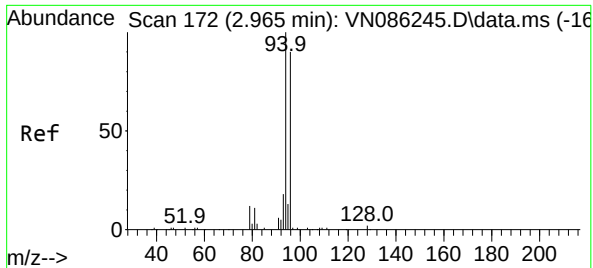
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 19.548 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 62 Resp: 38937
Ion Ratio Lower Upper
62 100
64 33.6 26.3 39.5





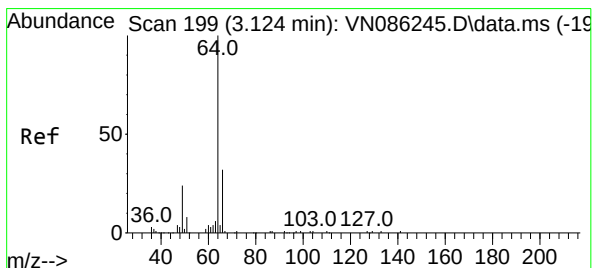
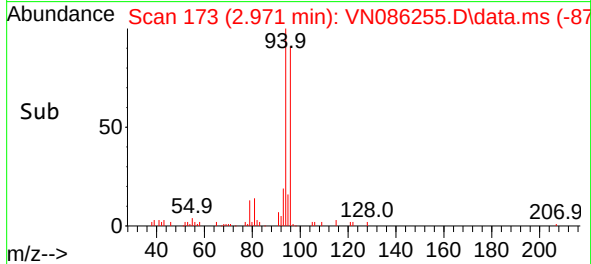
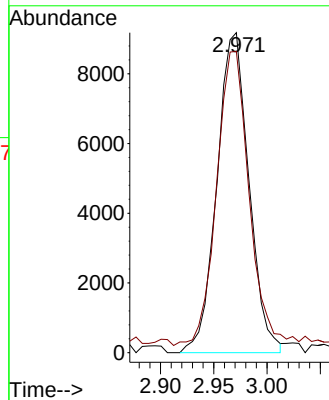
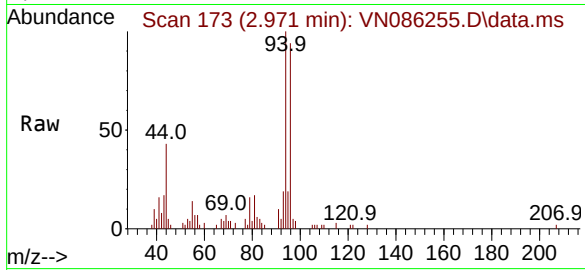
#5
Bromomethane
Concen: 19.311 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 94 Resp: 1918
Ion Ratio Lower Upper
94 100
96 90.8 72.2 108.2

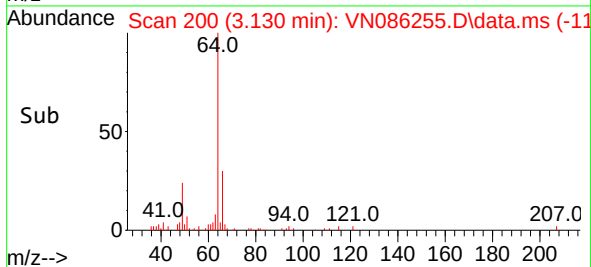
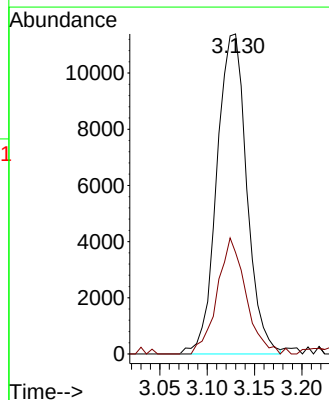
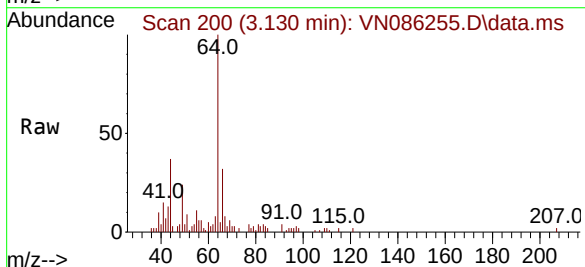
Manual Integrations
APPROVED

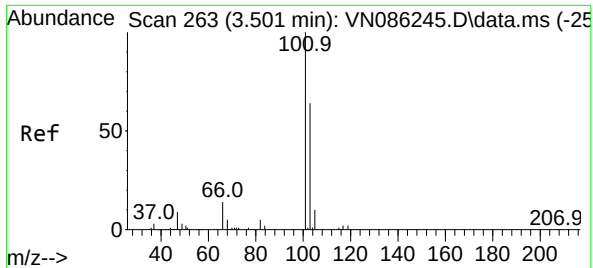
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#6
Chloroethane
Concen: 19.909 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

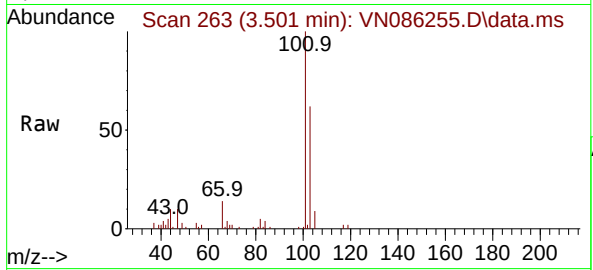
Tgt Ion: 64 Resp: 25042
Ion Ratio Lower Upper
64 100
66 31.7 25.7 38.5





#7
Trichlorofluoromethane
Concen: 19.342 ug/l
RT: 3.501 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

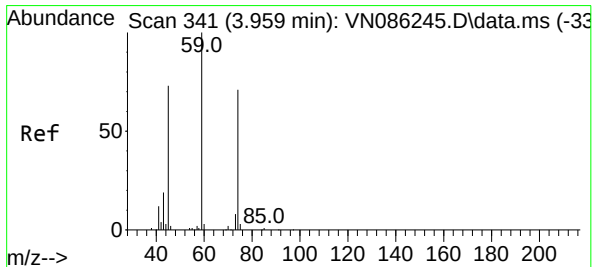
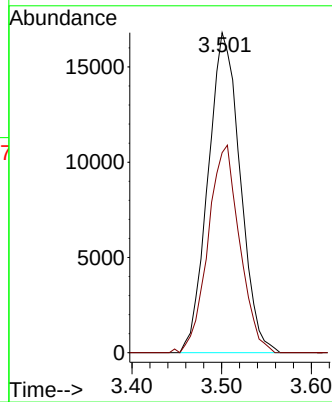
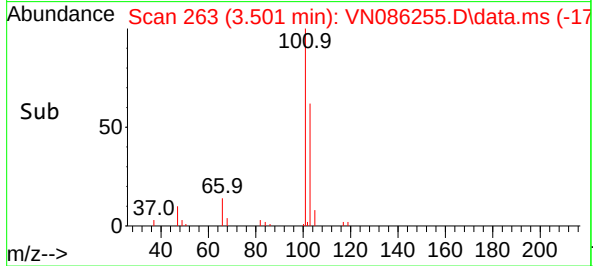
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:101 Resp: 41794
Ion Ratio Lower Upper
101 100
103 62.5 51.2 76.8

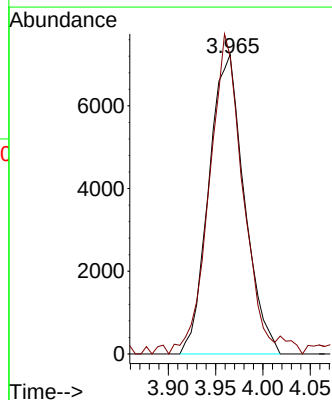
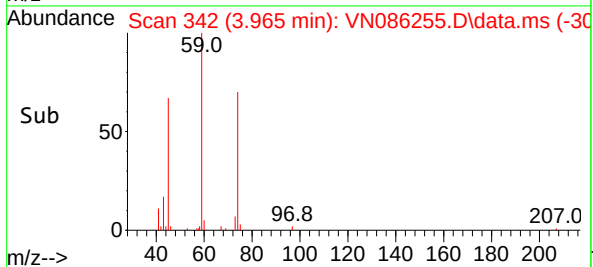
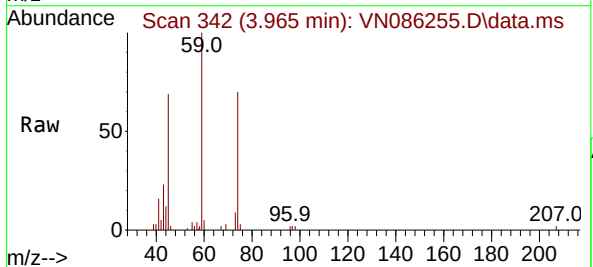
Manual Integrations
APPROVED

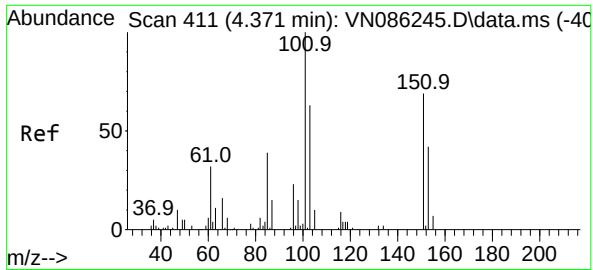
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 18.955 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 74 Resp: 18888
Ion Ratio Lower Upper
74 100
45 99.8 19.2 173.2





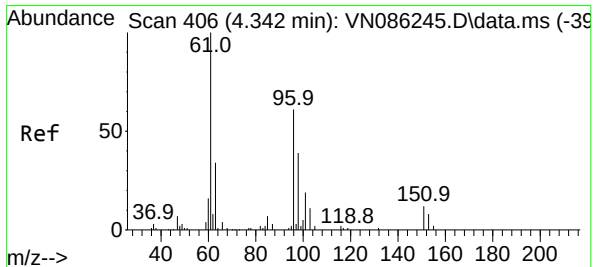
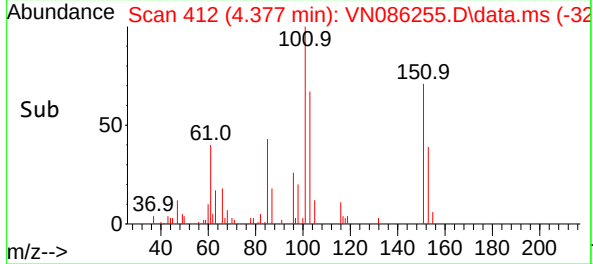
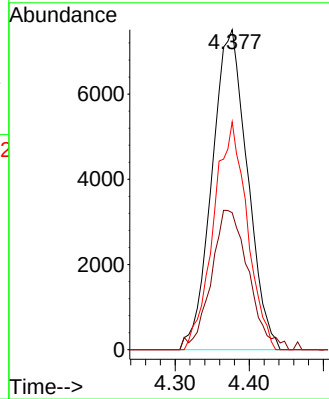
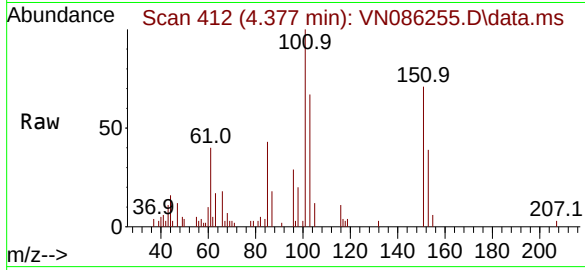
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.715 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 101 Resp: 24930
Ion Ratio Lower Upper
101 100
85 41.9 0.0 93.0
151 67.7 0.0 138.6

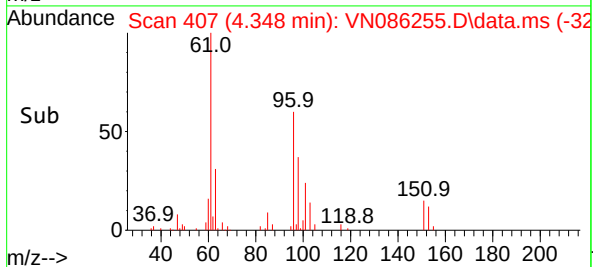
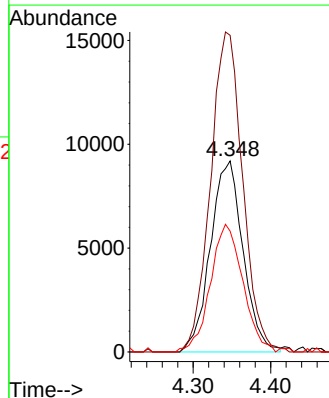
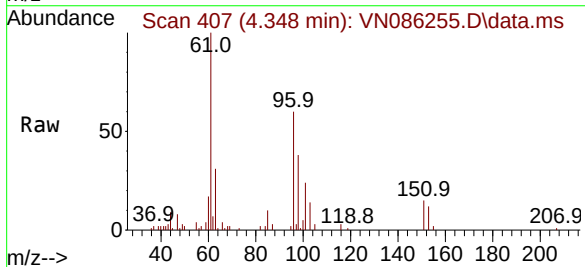
Manual Integrations
APPROVED

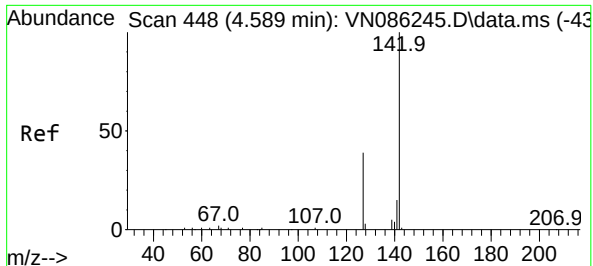
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 18.753 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

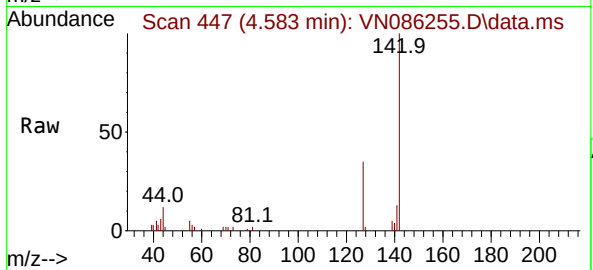
Tgt Ion: 96 Resp: 26966
Ion Ratio Lower Upper
96 100
61 165.8 131.1 196.7
98 61.5 51.6 77.4





#11
Methyl Iodide
Concen: 19.145 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

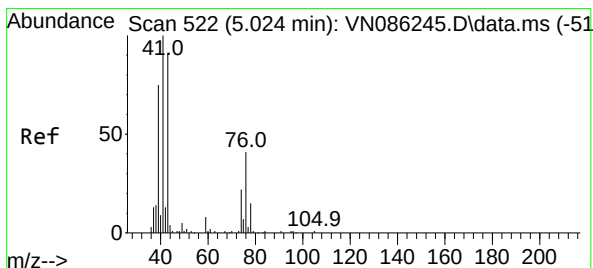
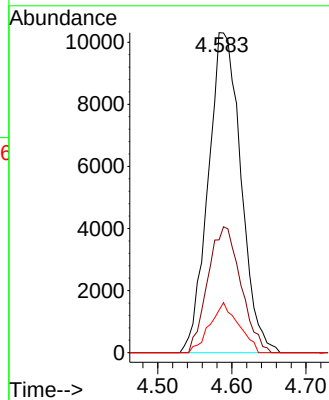
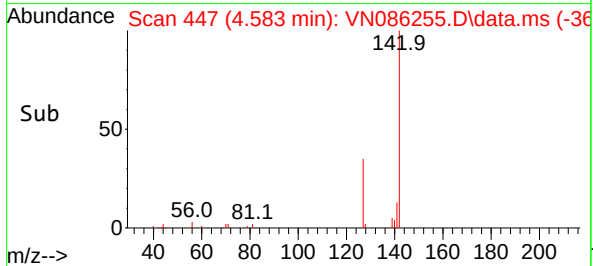
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:142 Resp: 3164
Ion Ratio Lower Upper
142 100
127 35.3 19.6 58.8
141 13.3 7.3 21.9

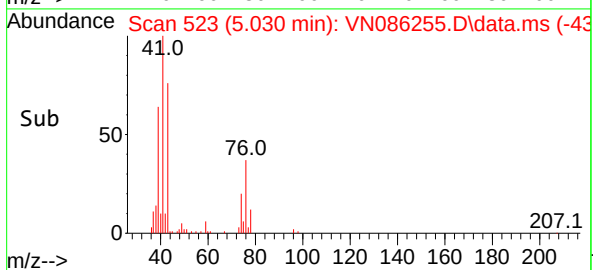
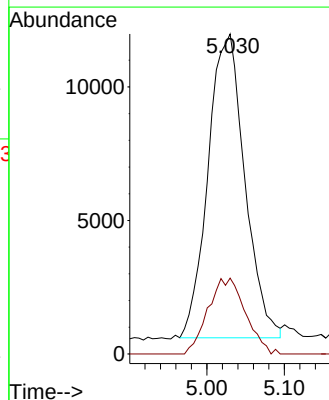
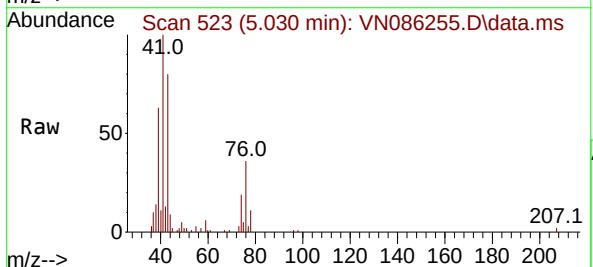
Manual Integrations
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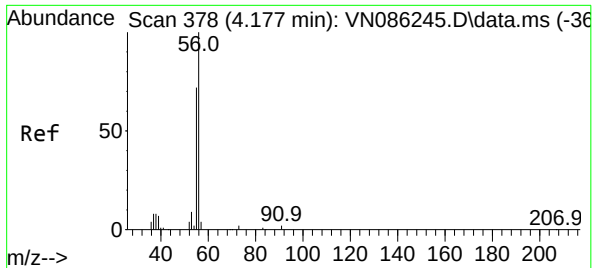
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#12
Methyl Acetate
Concen: 18.433 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

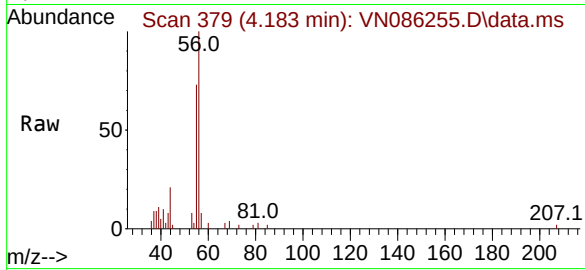
Tgt Ion: 43 Resp: 37430
Ion Ratio Lower Upper
43 100
74 25.4 19.1 28.7





#13
Acrolein
Concen: 82.706 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

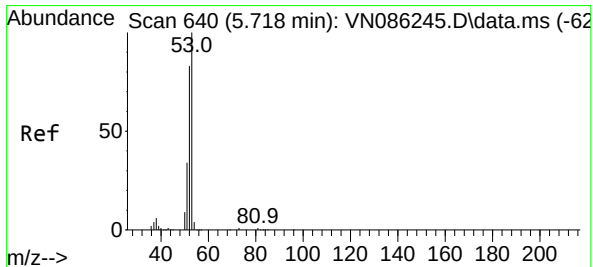
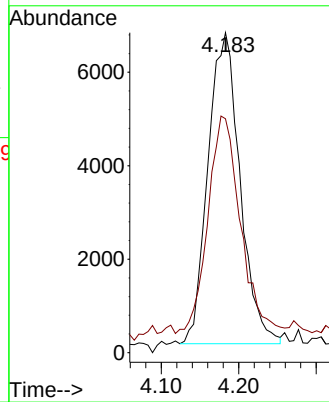
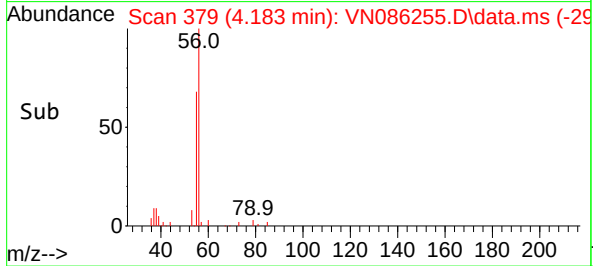
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 56 Resp: 19090
Ion Ratio Lower Upper
56 100
55 73.3 56.5 84.7

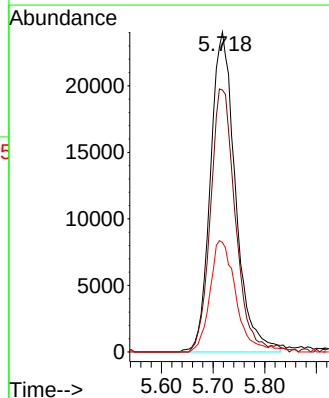
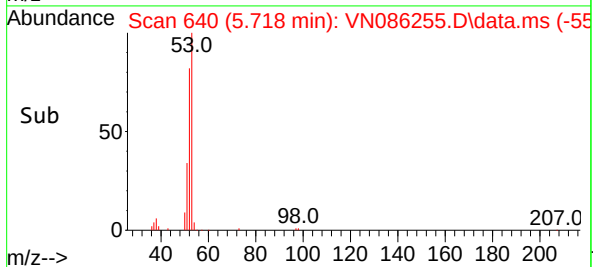
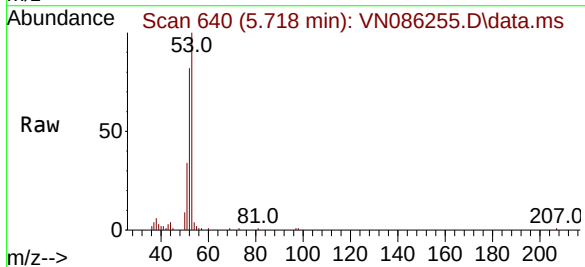
Manual Integrations
APPROVED

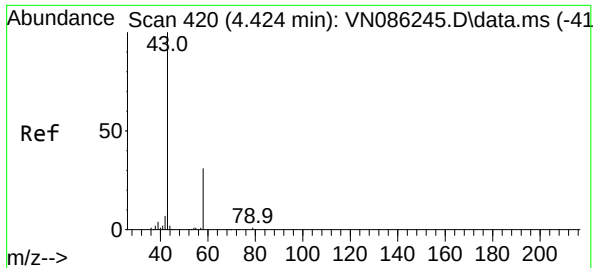
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#14
Acrylonitrile
Concen: 94.238 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 53 Resp: 80784
Ion Ratio Lower Upper
53 100
52 81.0 40.2 120.6
51 35.6 17.5 52.6





#15

Acetone

Concen: 91.311 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 58 Resp: 1984

Ion Ratio Lower Upper

58 100

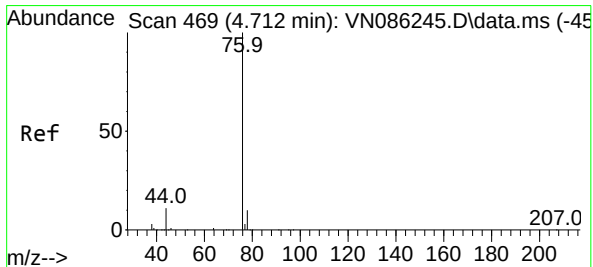
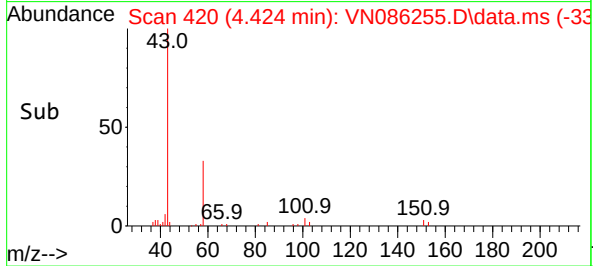
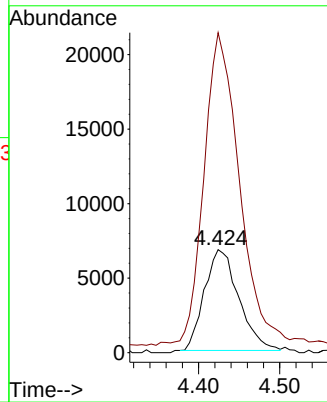
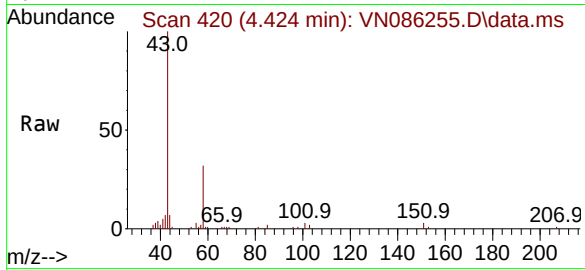
43 305.8 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 19.148 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN086255.D

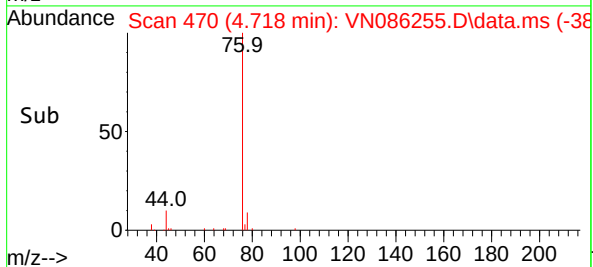
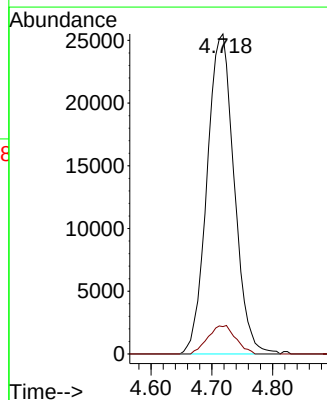
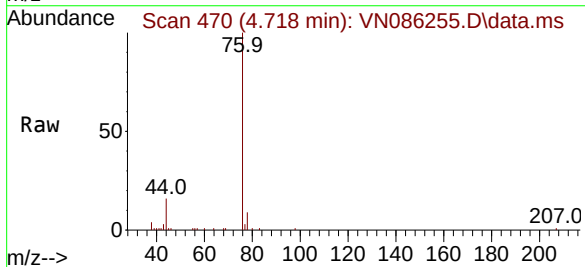
Acq: 11 Apr 2025 17:28

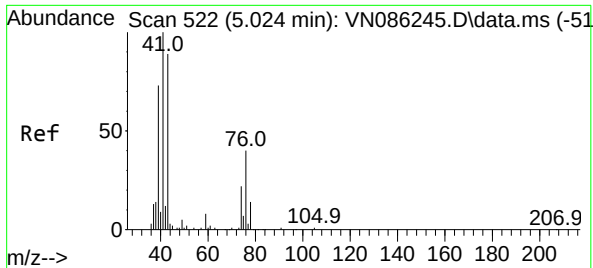
Tgt Ion: 76 Resp: 78952

Ion Ratio Lower Upper

76 100

78 8.6 7.7 11.5





#17

Allyl chloride

Concen: 19.596 ug/l

RT: 5.030 min Scan# 511

Delta R.T. 0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 41 Resp: 4911

Ion Ratio Lower Upper

41 100

39 63.0 34.4 103.2

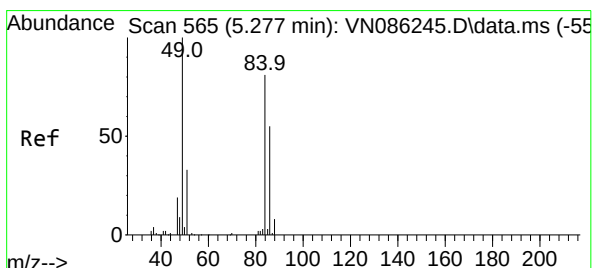
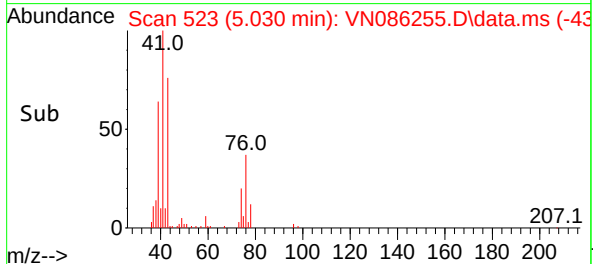
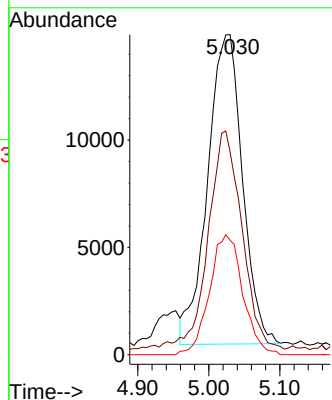
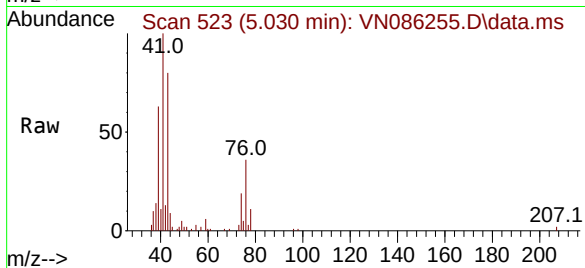
76 37.1 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 19.010 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Tgt Ion: 84 Resp: 31167

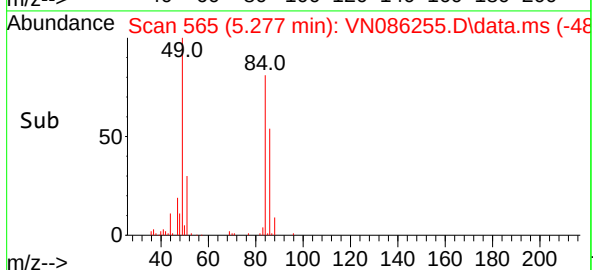
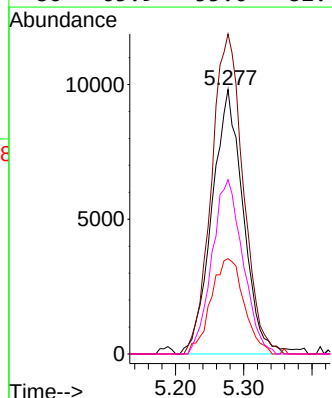
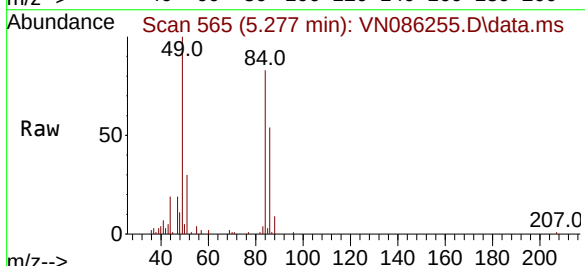
Ion Ratio Lower Upper

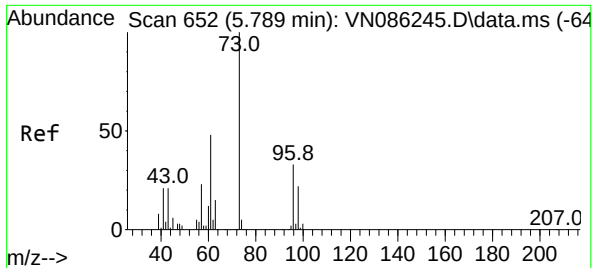
84 100

49 121.0 99.1 148.7

51 36.1 32.3 48.5

86 65.9 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 18.843 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 96 Resp: 28540

Ion Ratio Lower Upper

96 100

61 143.1 115.9 173.9

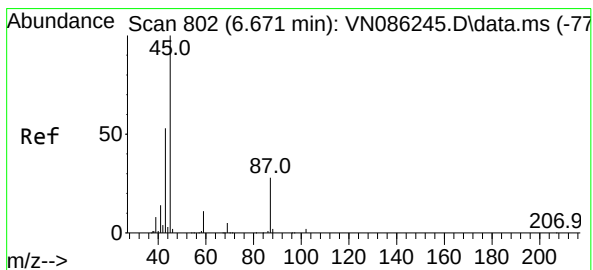
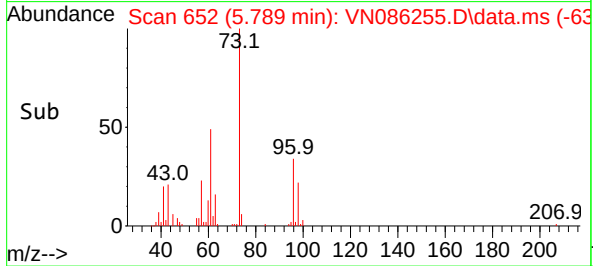
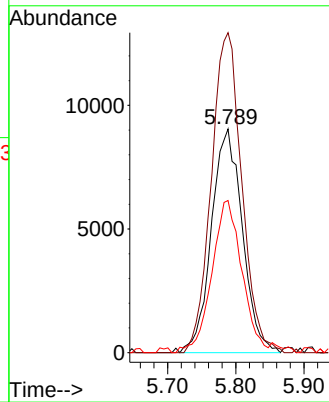
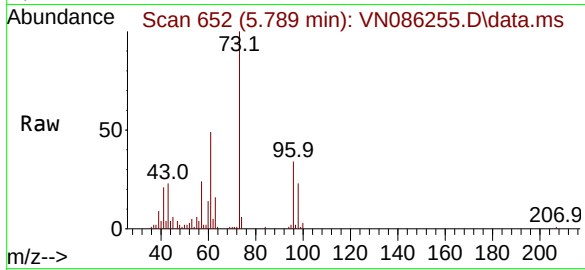
98 65.6 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 17.775 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Tgt Ion: 45 Resp: 95774

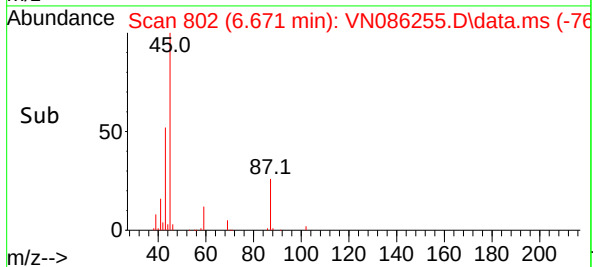
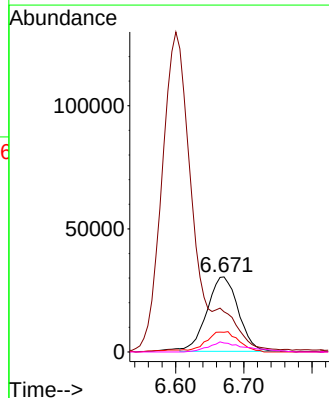
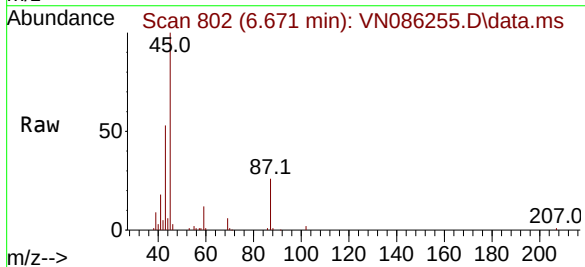
Ion Ratio Lower Upper

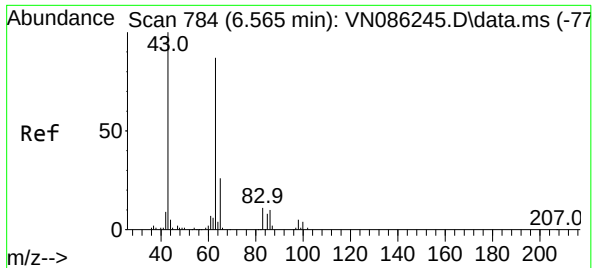
45 100

43 51.0 42.3 63.5

87 26.4 22.2 33.4

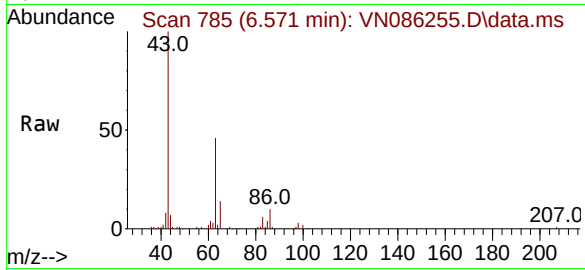
59 12.0 9.1 13.7





#21
1,1-Dichloroethane
Concen: 19.295 ug/l
RT: 6.571 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

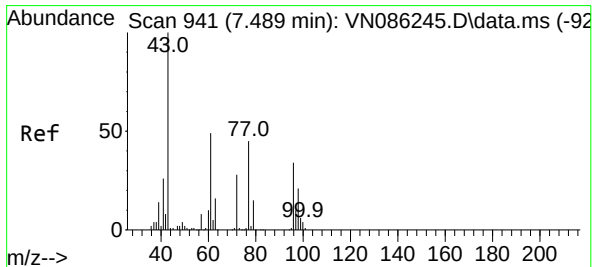
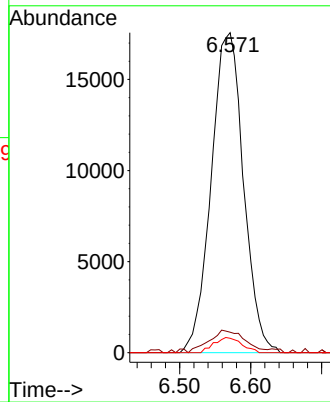
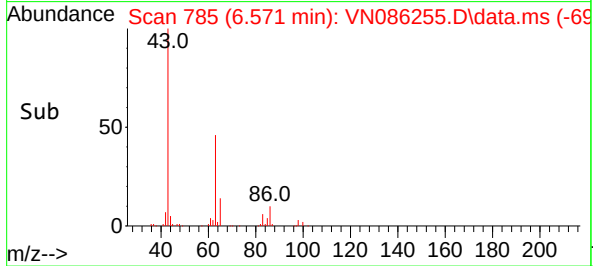
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 63 Resp: 5546
Ion Ratio Lower Upper
63 100
98 5.3 3.1 9.3
100 4.5 2.3 6.9

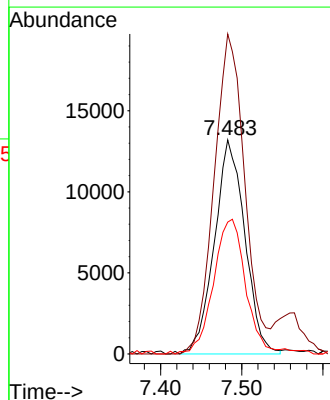
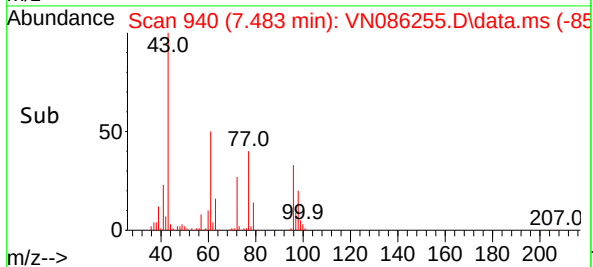
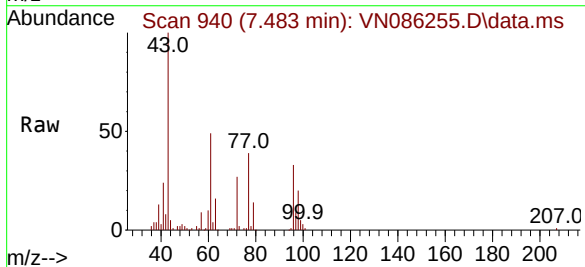
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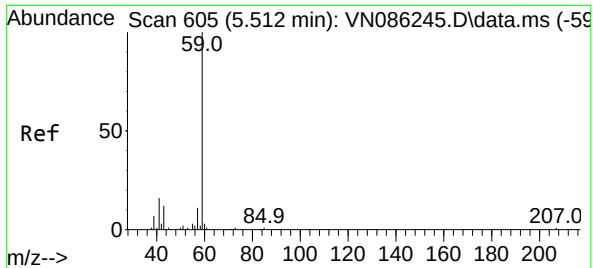
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 19.057 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 96 Resp: 34384
Ion Ratio Lower Upper
96 100
61 150.8 119.5 179.3
98 62.9 51.0 76.6





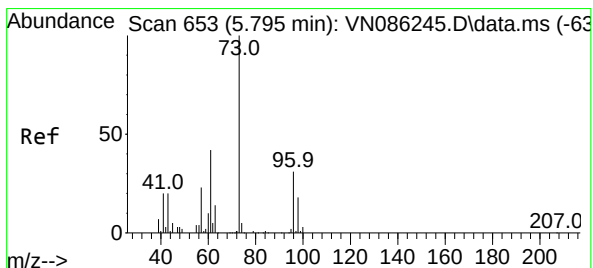
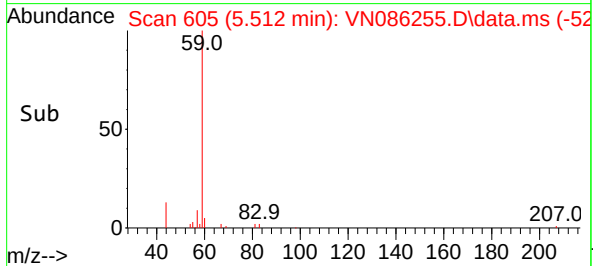
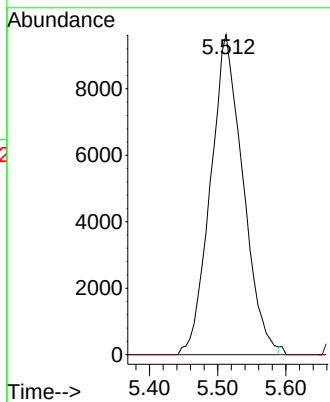
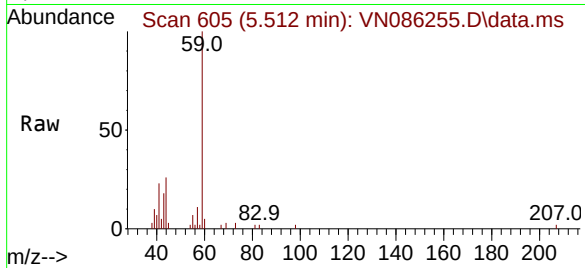
#23
tert-Butyl Alcohol
Concen: 89.739 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 59 Resp: 3187
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

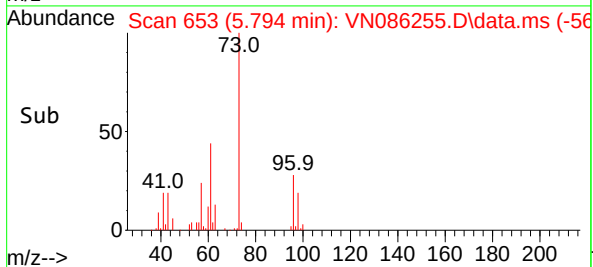
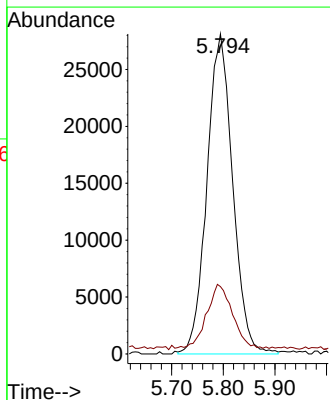
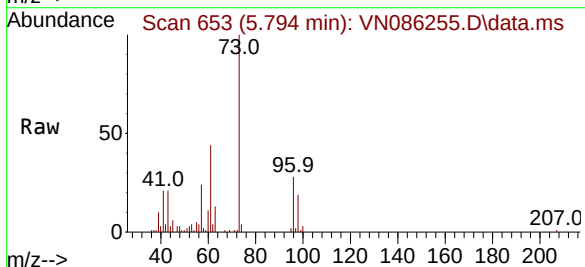
Manual Integrations
APPROVED

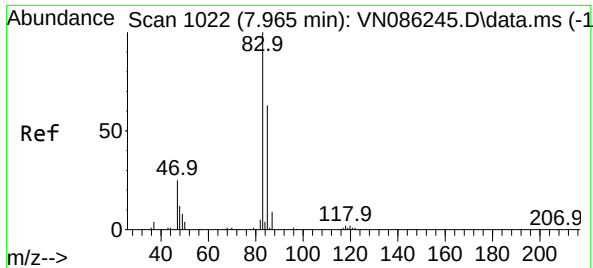
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#24
Methyl tert-Butyl Ether
Concen: 18.777 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 73 Resp: 97437
Ion Ratio Lower Upper
73 100
43 20.0 16.8 25.2





#25

Chloroform

Concen: 19.423 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 83 Resp: 5324

Ion Ratio Lower Upper

83 100

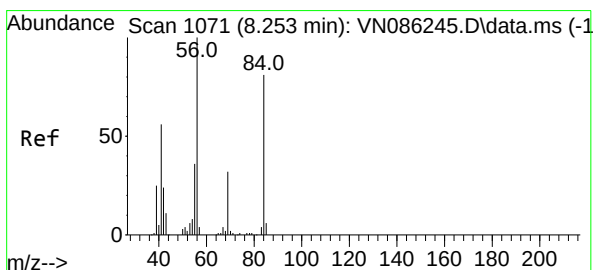
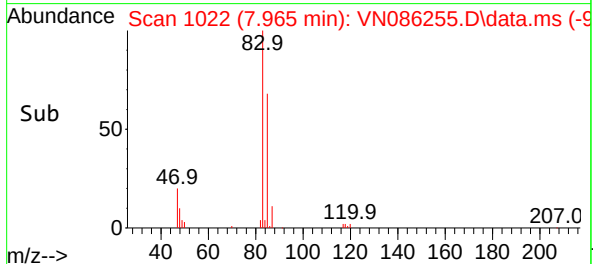
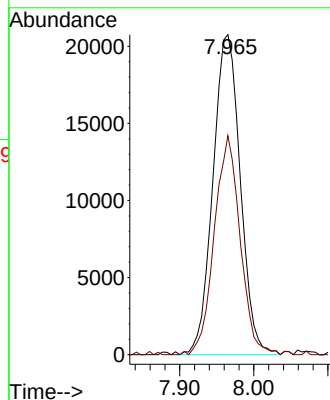
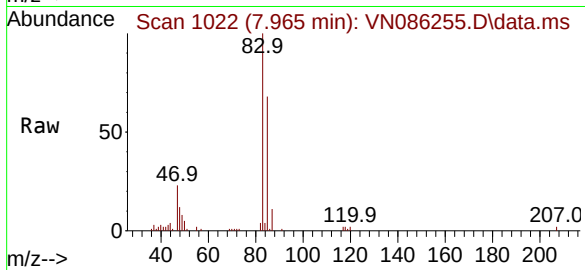
85 68.5 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 18.733 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

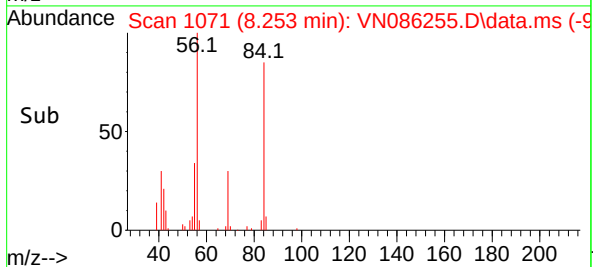
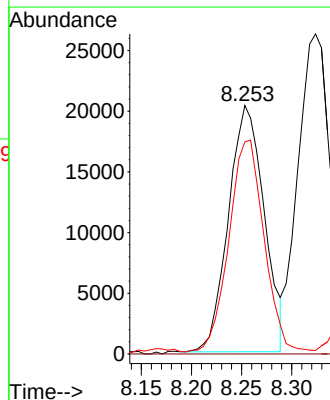
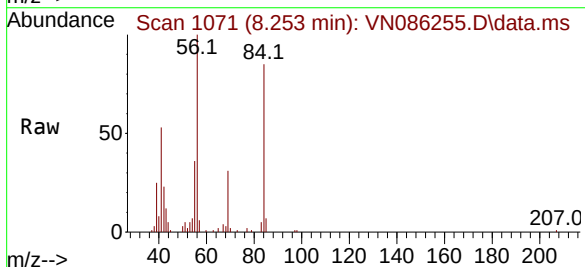
Tgt Ion: 56 Resp: 50381

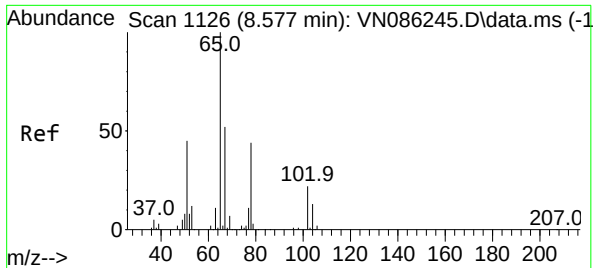
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

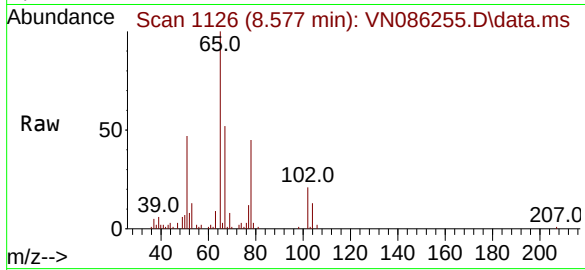
84 86.9 69.0 103.4





#27
1,2-Dichloroethane-d4
Concen: 29.085 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

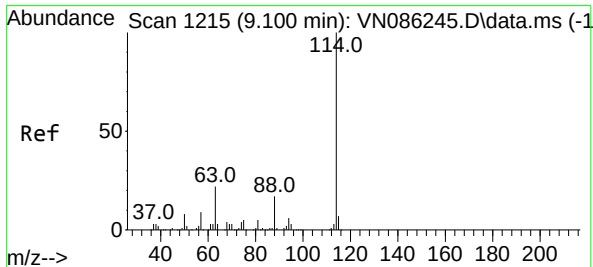
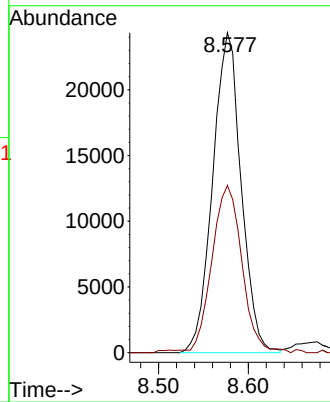
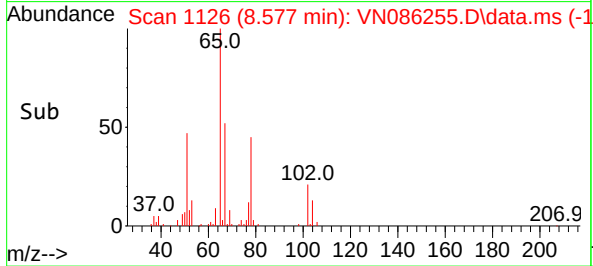
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 65 Resp: 5357
Ion Ratio Lower Upper
65 100
67 54.5 43.4 65.2

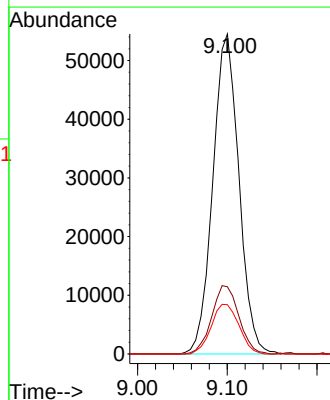
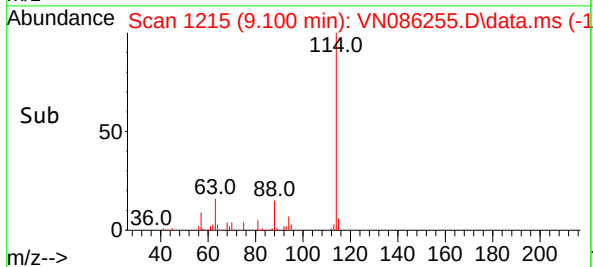
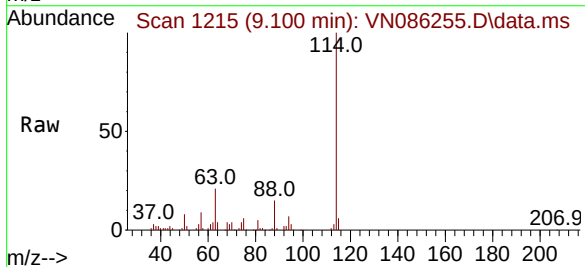
Manual Integrations
APPROVED

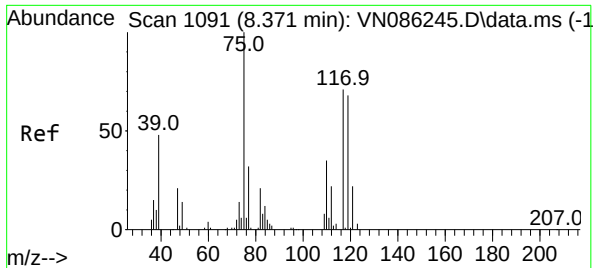
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:114 Resp: 109876
Ion Ratio Lower Upper
114 100
63 22.3 17.8 26.6
88 16.5 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.965 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 75 Resp: 39298

Ion Ratio Lower Upper

75 100

110 34.1 0.0 68.6

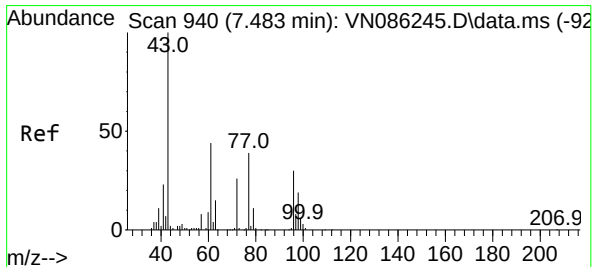
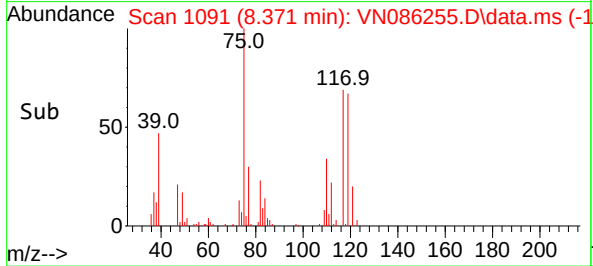
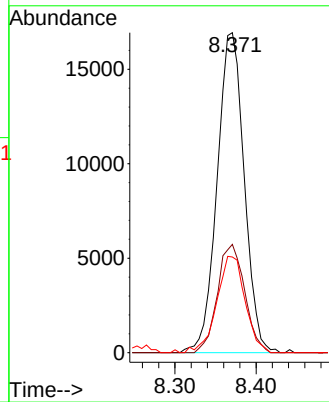
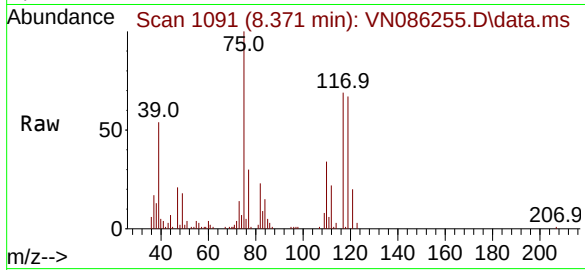
77 31.5 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 96.889 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

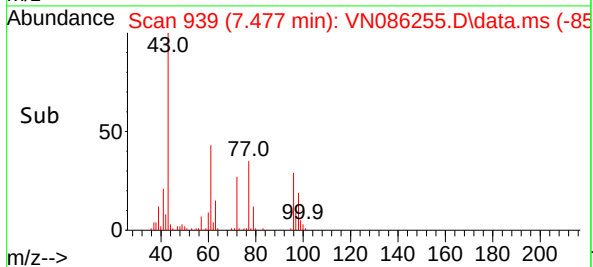
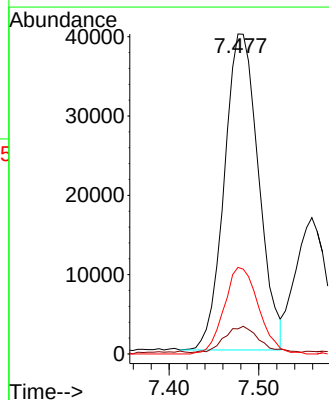
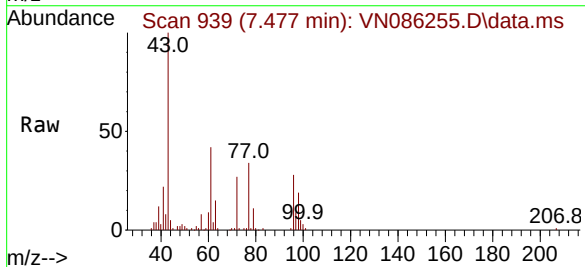
Tgt Ion: 43 Resp: 105674

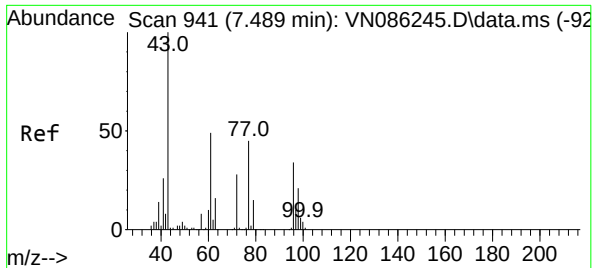
Ion Ratio Lower Upper

43 100

57 8.0 6.4 9.6

72 27.4 21.5 32.3





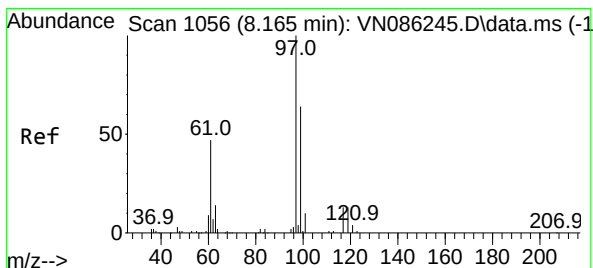
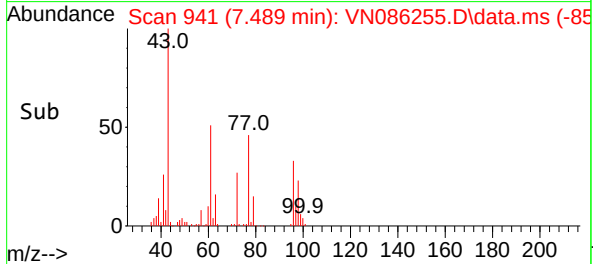
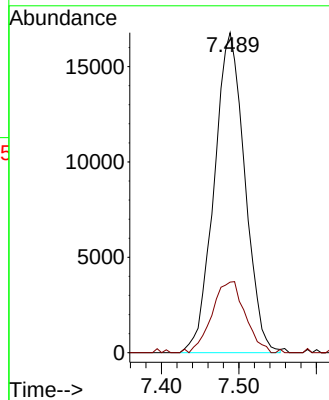
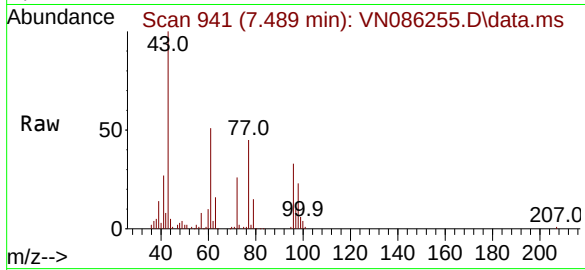
#31
2,2-Dichloropropane
Concen: 19.045 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 77 Resp: 46144
Ion Ratio Lower Upper
77 100
97 23.9 18.8 28.2

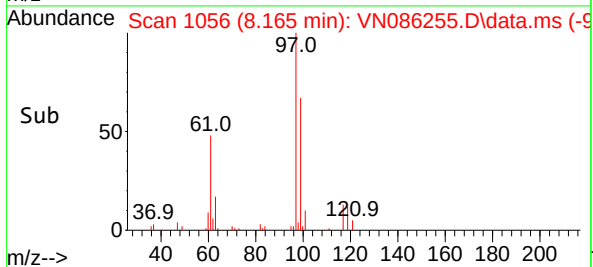
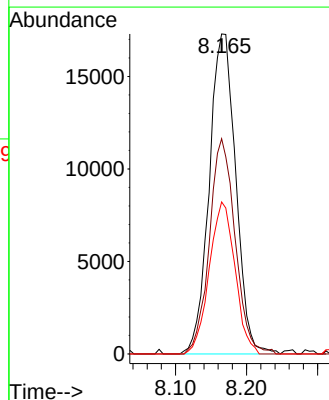
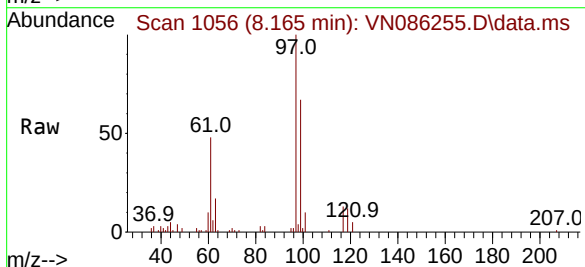
Manual Integrations
APPROVED

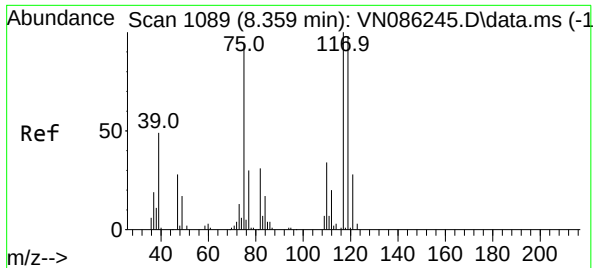
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 19.825 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

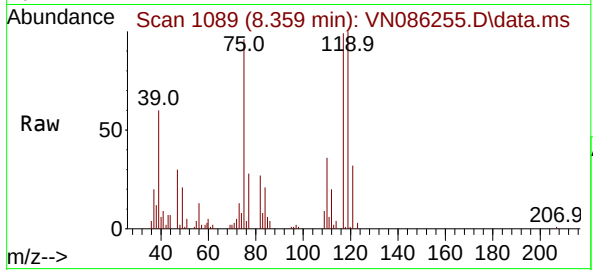
Tgt Ion: 97 Resp: 44888
Ion Ratio Lower Upper
97 100
99 65.1 51.4 77.2
61 46.0 37.0 55.6





#33
Carbon Tetrachloride
Concen: 19.444 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

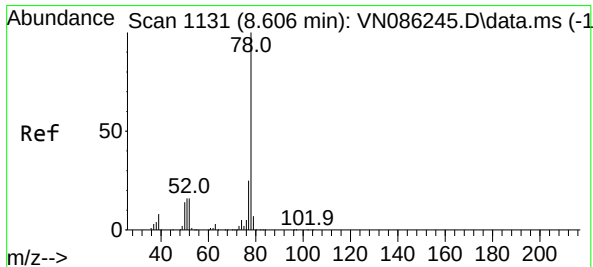
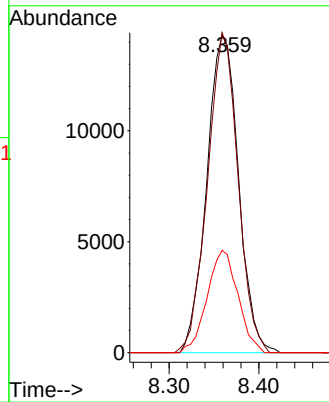
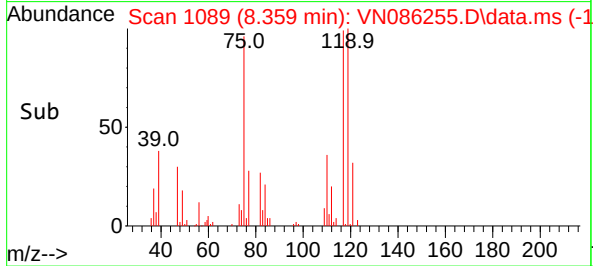
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 117 Resp: 3518
Ion Ratio Lower Upper
117 100
119 100.7 78.3 117.5
121 32.2 22.5 33.7

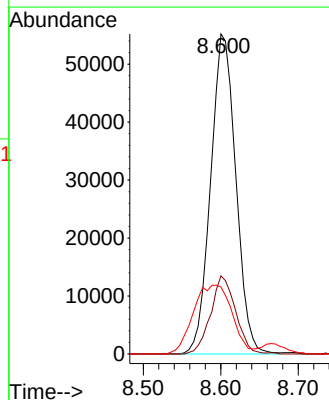
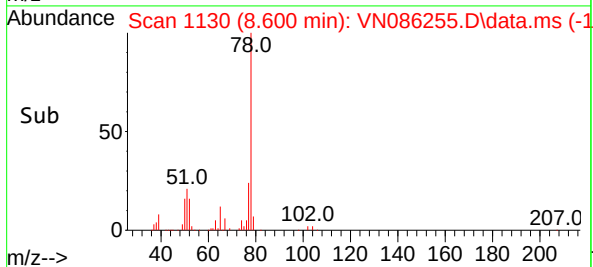
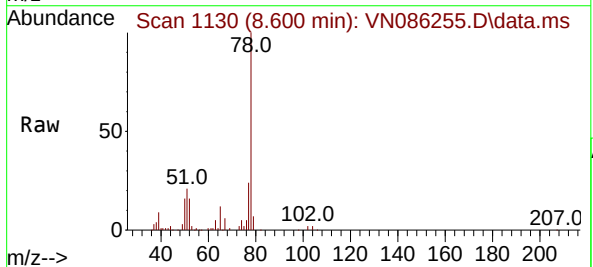
Manual Integrations
APPROVED

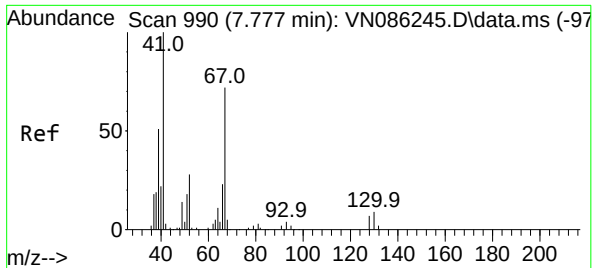
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 19.909 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

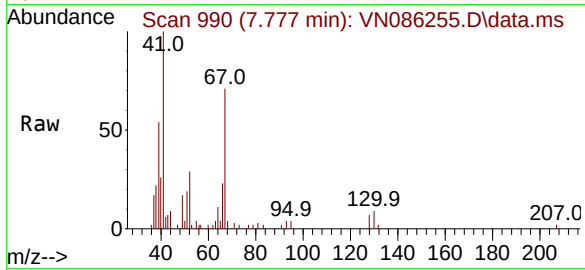
Tgt Ion: 78 Resp: 124673
Ion Ratio Lower Upper
78 100
77 24.4 20.0 30.0
51 18.5 12.9 19.3





#35
Methacrylonitrile
Concen: 20.728 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

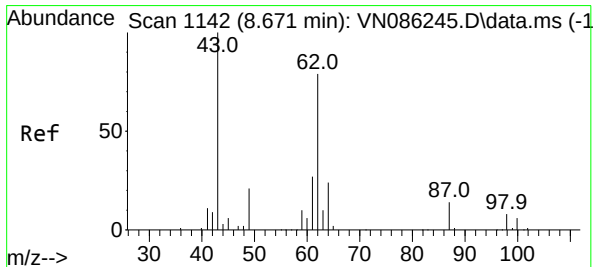
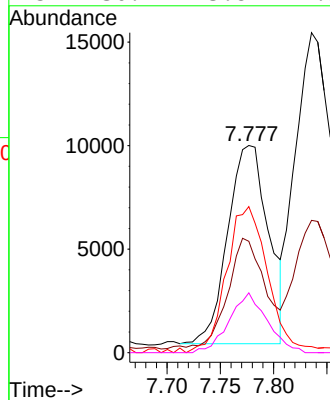
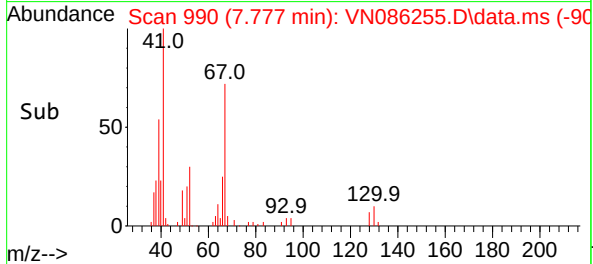
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 41 Resp: 25486
Ion Ratio Lower Upper
41 100
39 52.8 25.8 77.3
67 71.4 36.0 108.0
52 30.2 13.8 41.3

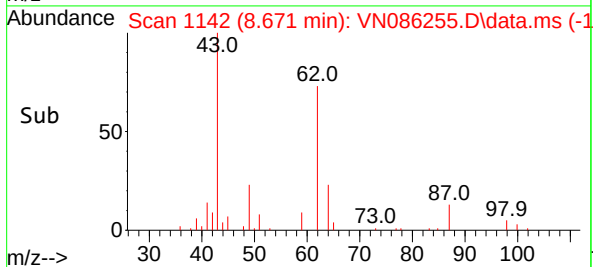
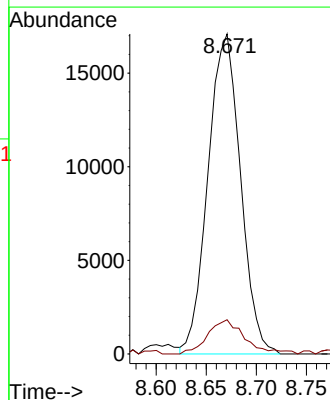
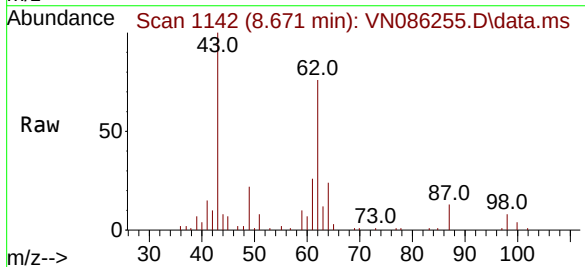
Manual Integrations
APPROVED

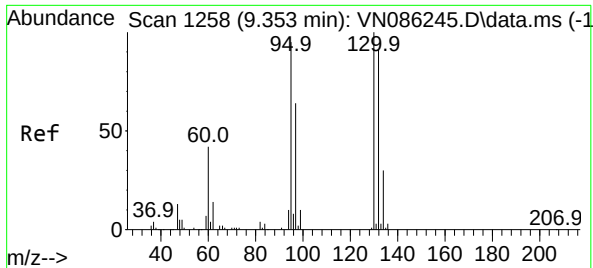
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#36
1,2-Dichloroethane
Concen: 19.705 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

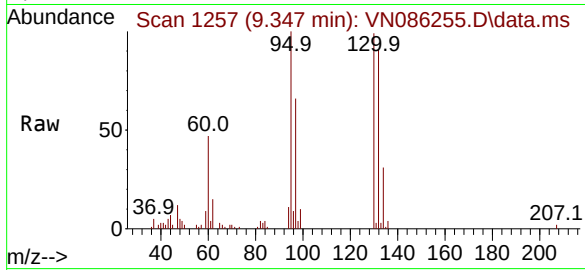
Tgt Ion: 62 Resp: 38614
Ion Ratio Lower Upper
62 100
98 11.9 8.6 12.8





#37
Trichloroethene
Concen: 18.904 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

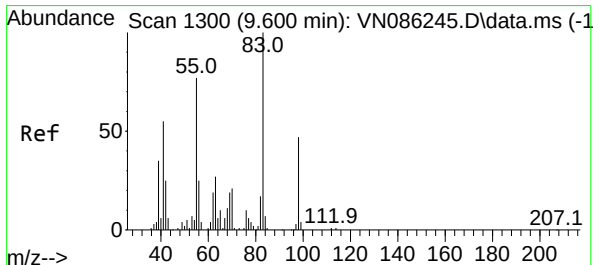
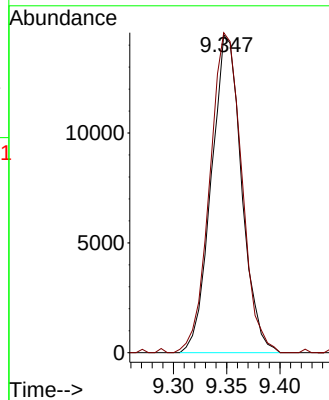
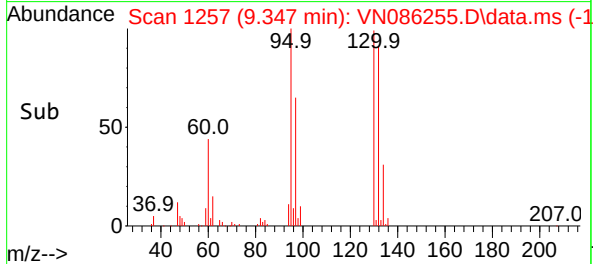
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 130 Resp: 28562
Ion Ratio Lower Upper
130 100
95 100.7 76.4 114.6

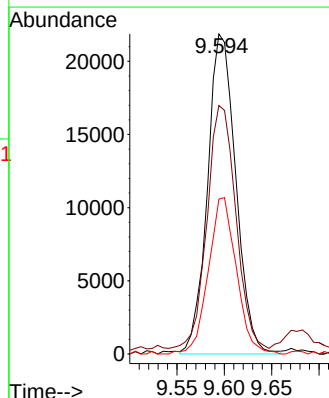
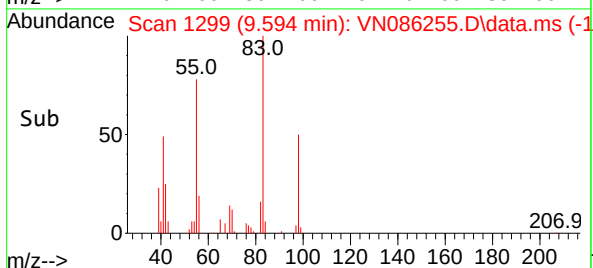
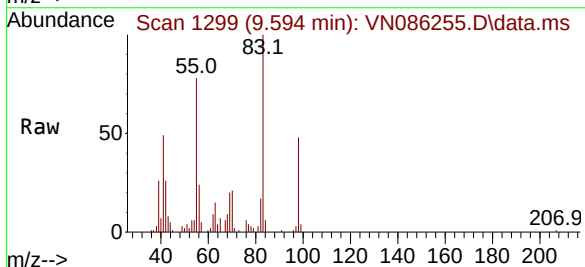
Manual Integrations
APPROVED

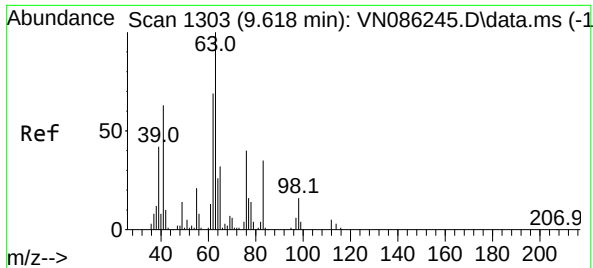
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#38
Methylcyclohexane
Concen: 18.901 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 83 Resp: 45627
Ion Ratio Lower Upper
83 100
55 77.7 38.5 115.5
98 48.0 24.4 73.2





#39

1,2-Dichloropropane

Concen: 19.693 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 63 Resp: 3068

Ion Ratio Lower Upper

63 100

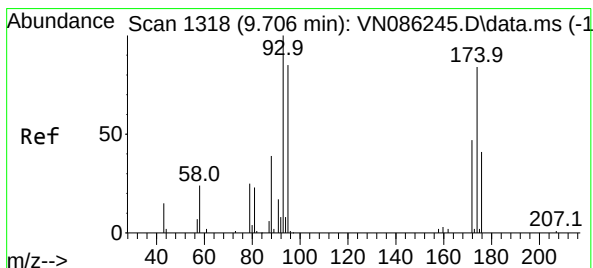
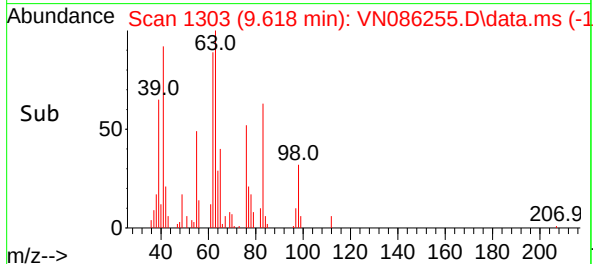
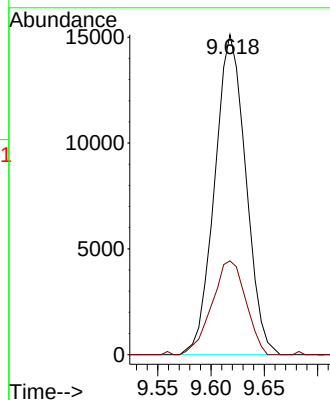
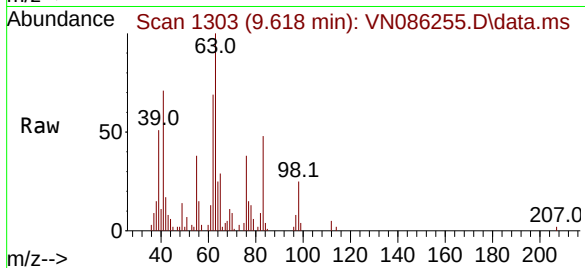
65 29.3 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 19.875 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

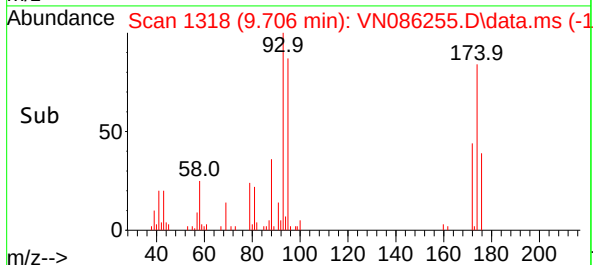
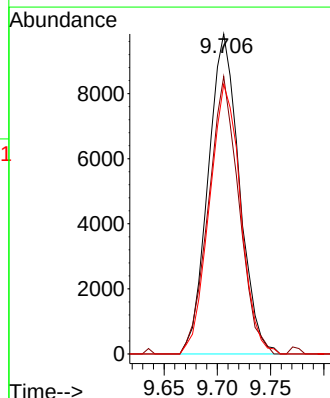
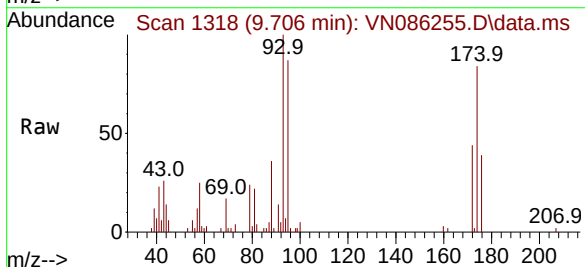
Tgt Ion: 93 Resp: 20002

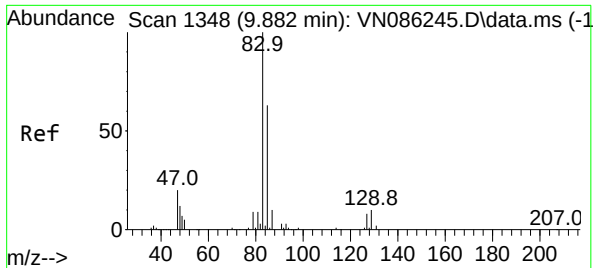
Ion Ratio Lower Upper

93 100

95 84.4 0.0 169.0

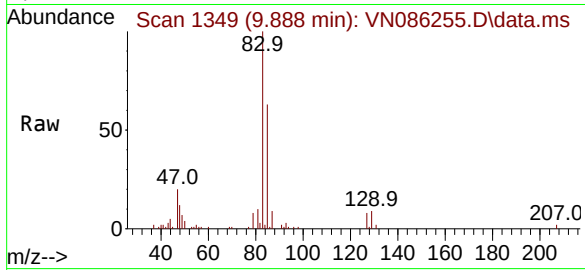
174 84.5 0.0 168.0





#41
Bromodichloromethane
Concen: 19.539 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

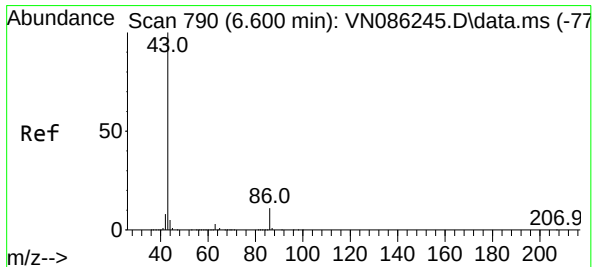
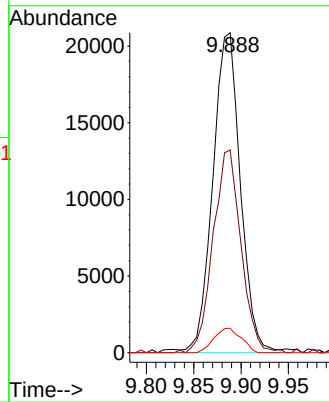
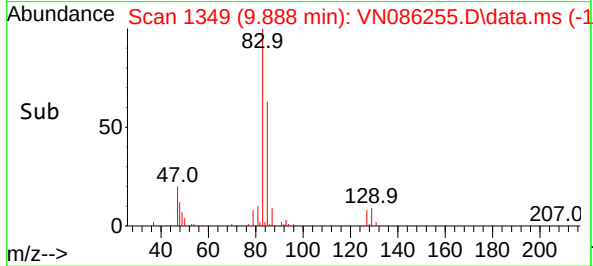
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 83 Resp: 4224
Ion Ratio Lower Upper
83 100
85 63.0 50.2 75.2
127 7.7 6.2 9.4

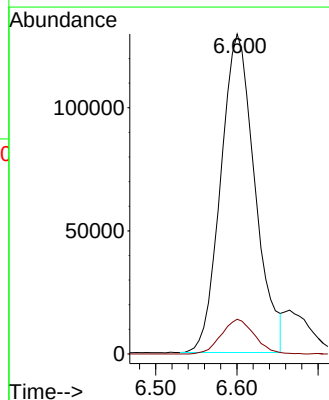
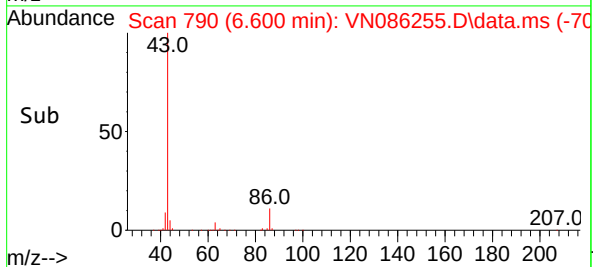
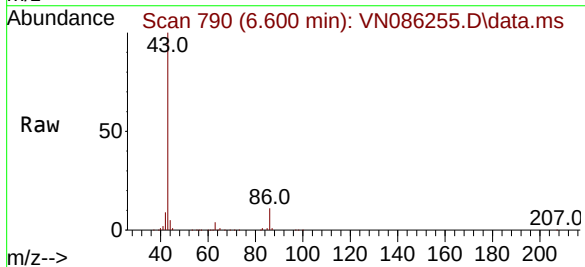
Manual Integrations
APPROVED

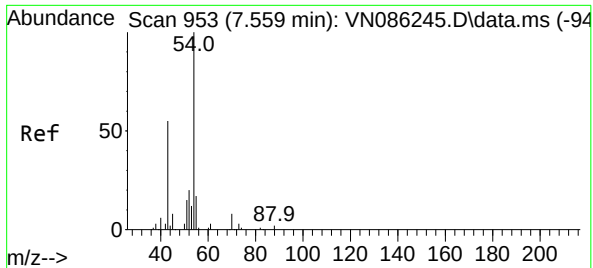
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 101.896 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

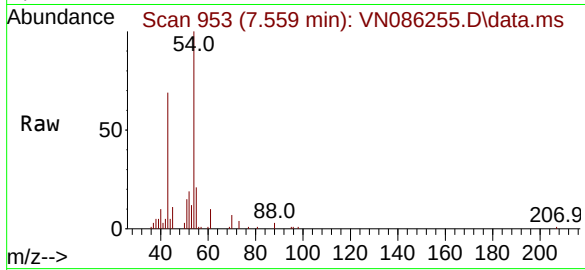
Tgt Ion: 43 Resp: 378299
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6





#43
Ethyl Acetate
Concen: 17.072 ug/l
RT: 7.559 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

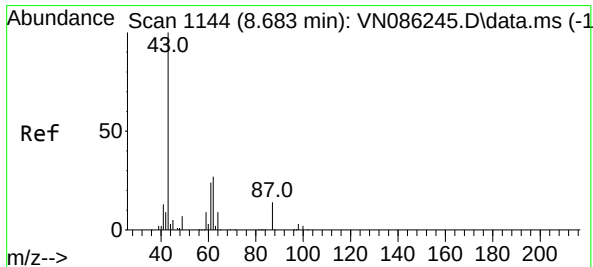
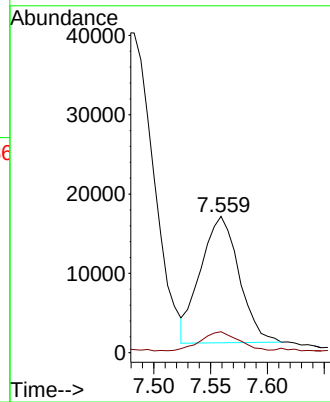
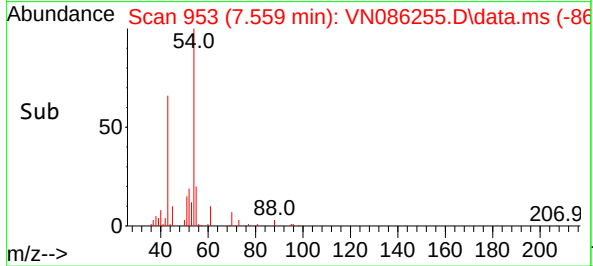
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 43 Resp: 3755
Ion Ratio Lower Upper
43 100
45 16.9 11.2 16.8

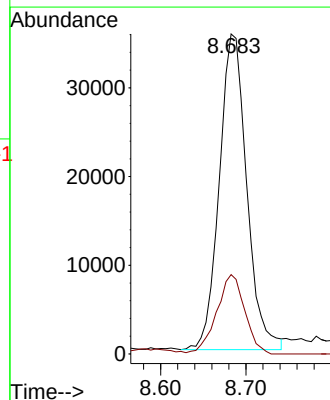
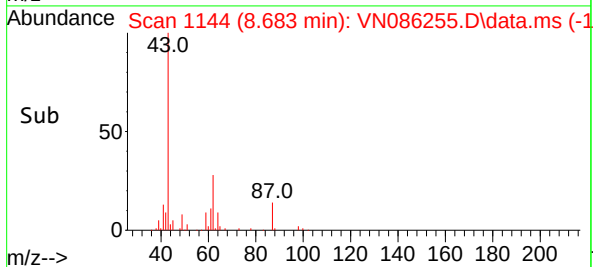
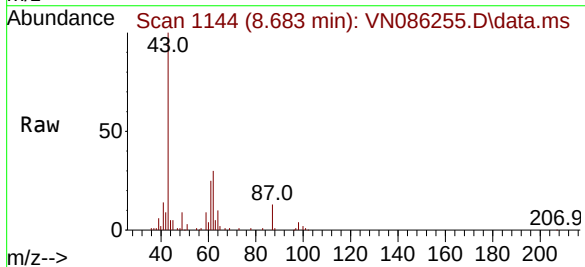
Manual Integrations
APPROVED

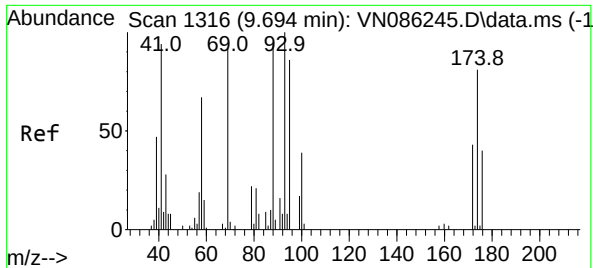
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 19.518 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

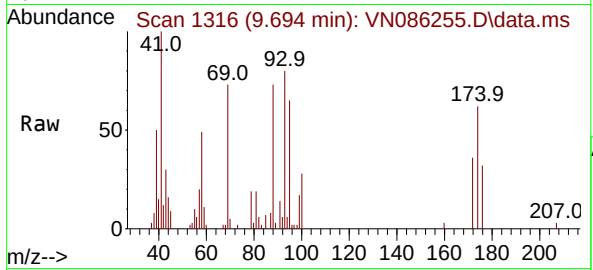
Tgt Ion: 43 Resp: 79656
Ion Ratio Lower Upper
43 100
61 25.7 20.5 30.7





#45
1,4-Dioxane
Concen: 392.047 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

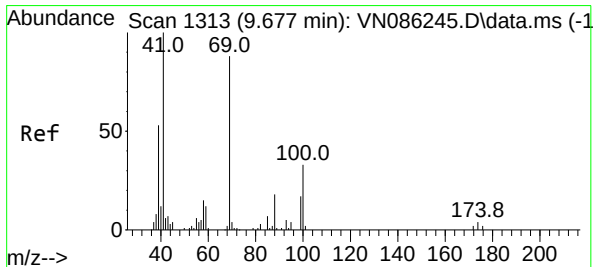
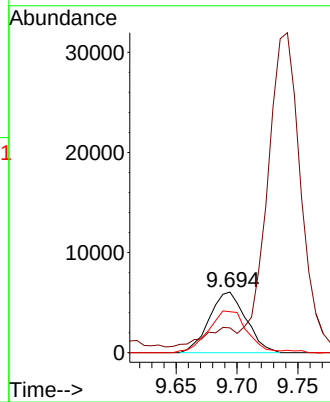
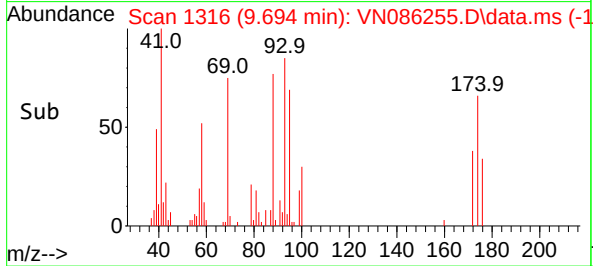
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 88 Resp: 12723
Ion Ratio Lower Upper
88 100
43 28.1 14.4 21.6
58 72.3 59.8 89.8

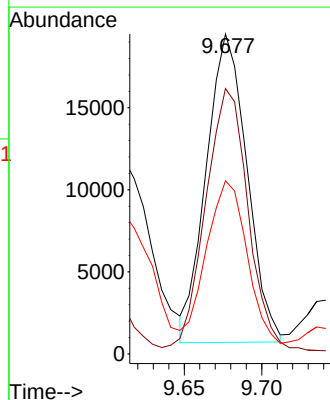
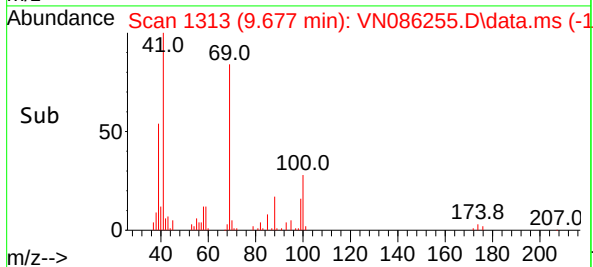
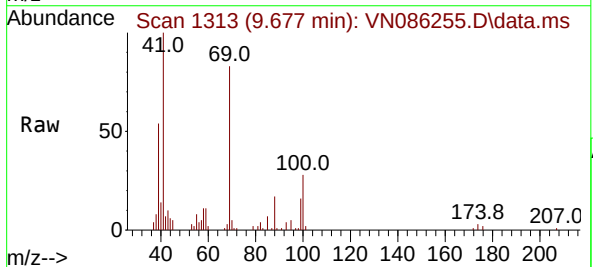
Manual Integrations
APPROVED

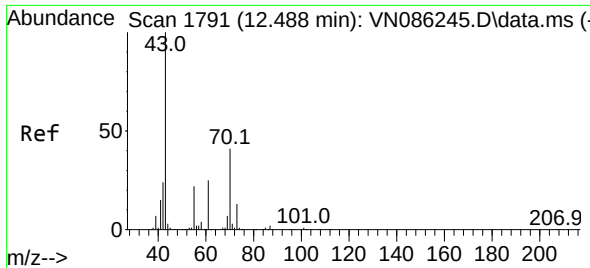
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#46
Methyl methacrylate
Concen: 19.067 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

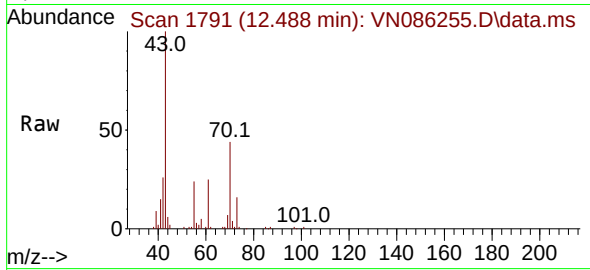
Tgt Ion: 41 Resp: 34286
Ion Ratio Lower Upper
41 100
69 84.2 43.2 129.6
39 54.0 26.4 79.0





#47
n-amy1 Acetate
Concen: 17.812 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

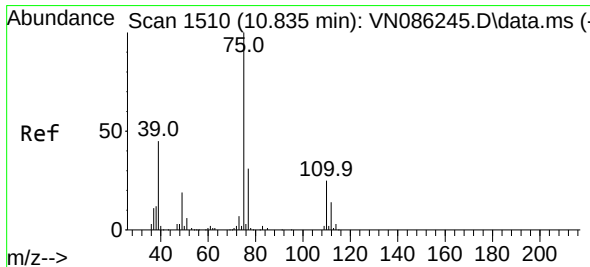
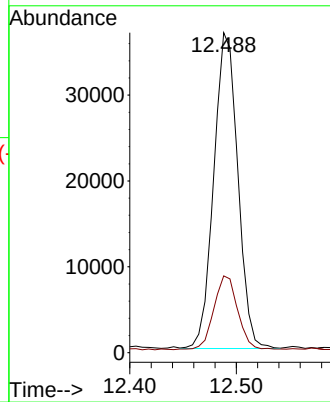
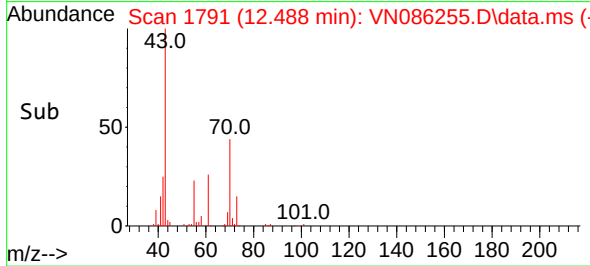
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 43 Resp: 5763
Ion Ratio Lower Upper
43 100
55 23.2 19.0 28.4

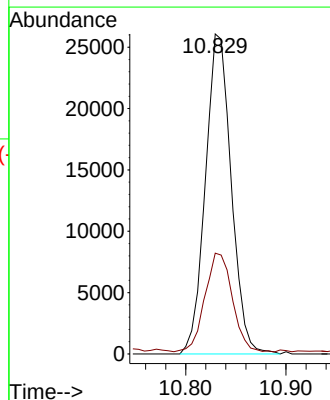
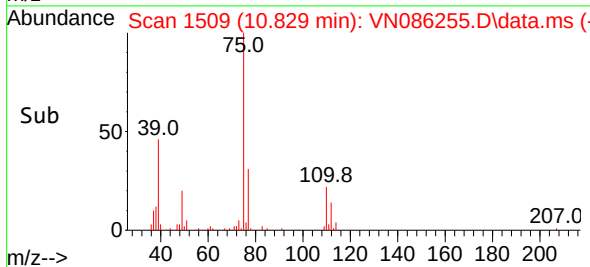
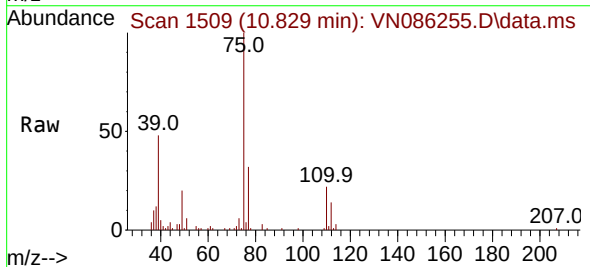
Manual Integrations
APPROVED

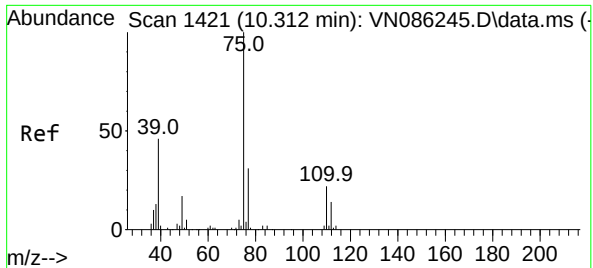
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#48
t-1,3-Dichloropropene
Concen: 19.149 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

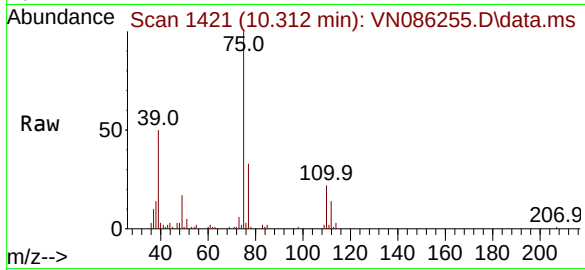
Tgt Ion: 75 Resp: 46804
Ion Ratio Lower Upper
75 100
77 30.4 25.1 37.7





#49
 cis-1,3-Dichloropropene
 Concen: 19.814 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

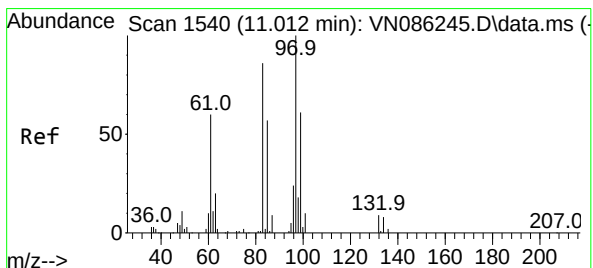
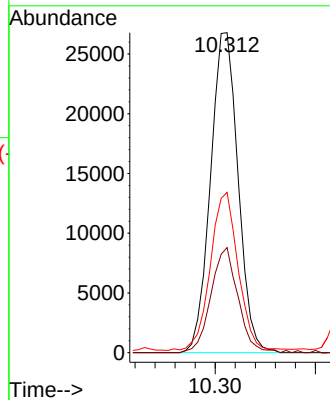
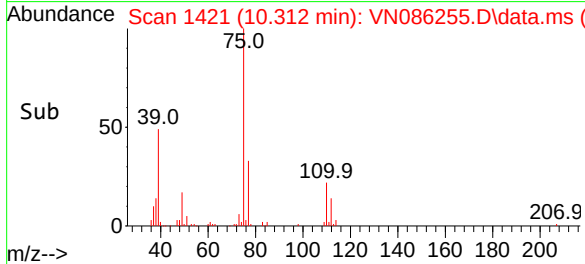
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC



Tgt Ion: 75 Resp: 51250
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.0 37.4
 39 49.2 36.7 55.1

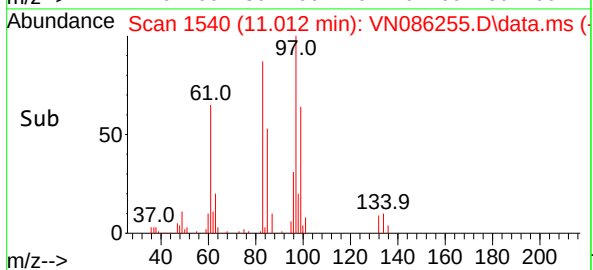
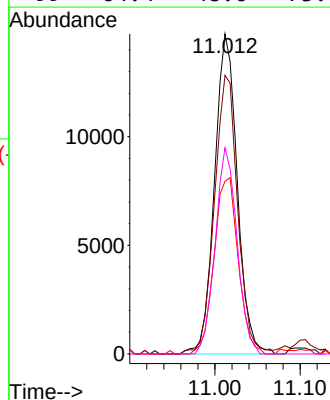
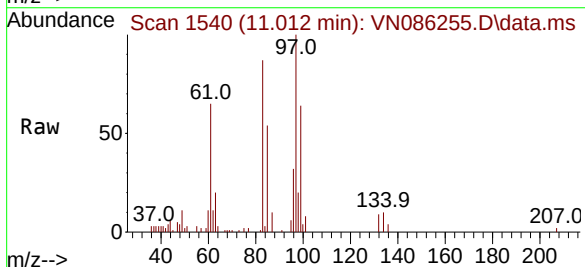
Manual Integrations
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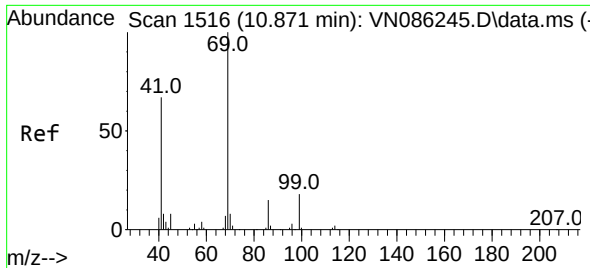
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#50
 1,1,2-Trichloroethane
 Concen: 19.319 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

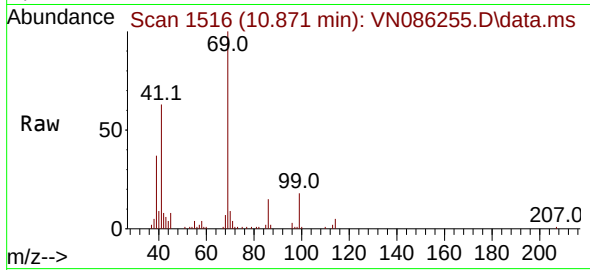
Tgt Ion: 97 Resp: 27268
 Ion Ratio Lower Upper
 97 100
 83 87.0 68.6 103.0
 85 54.0 45.9 68.9
 99 64.4 48.6 73.0





#51
Ethyl methacrylate
Concen: 18.768 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

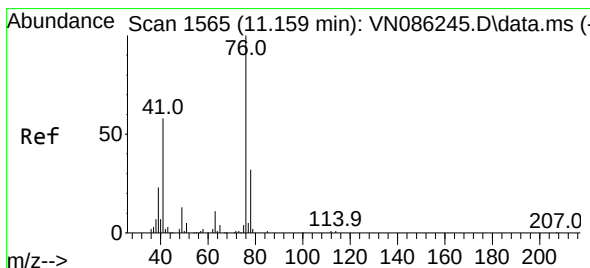
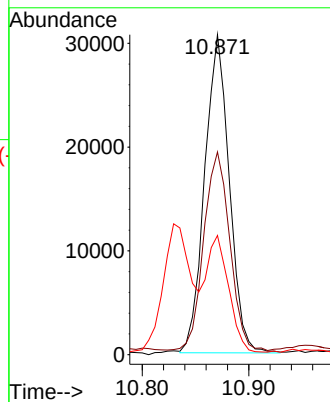
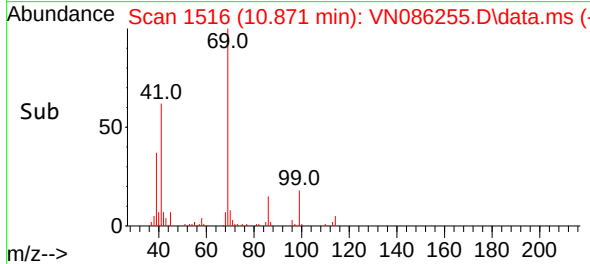
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 69 Resp: 49228
Ion Ratio Lower Upper
69 100
41 62.0 33.6 100.6
39 36.8 17.8 53.4

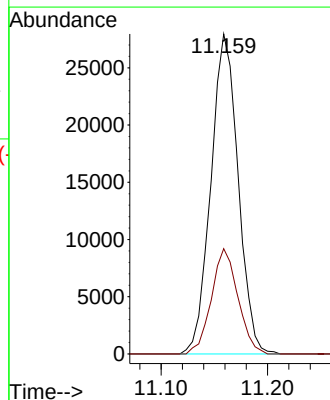
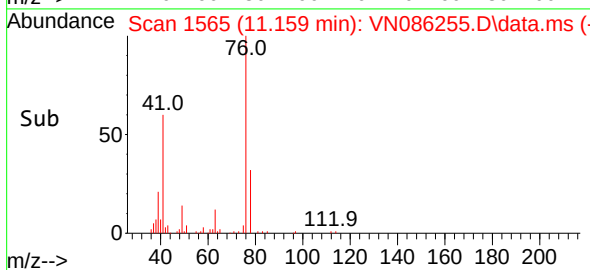
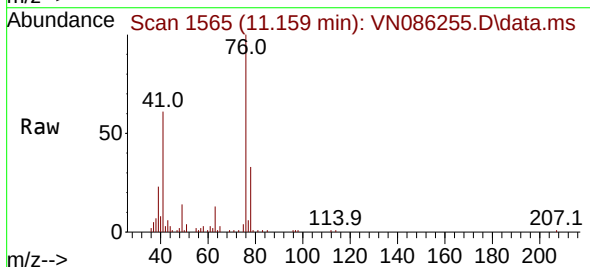
Manual Integrations
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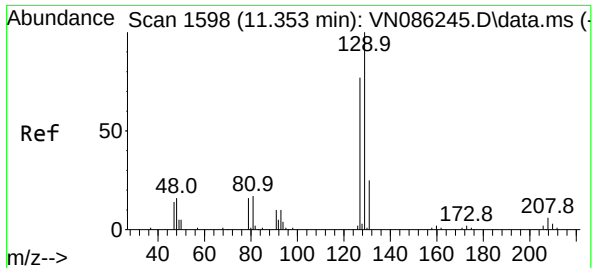
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 19.740 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

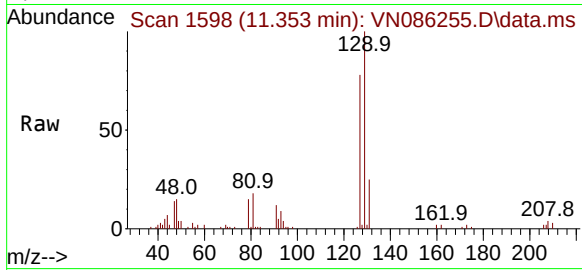
Tgt Ion: 76 Resp: 49662
Ion Ratio Lower Upper
76 100
78 32.0 0.0 64.6





#53
Dibromochloromethane
Concen: 19.406 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

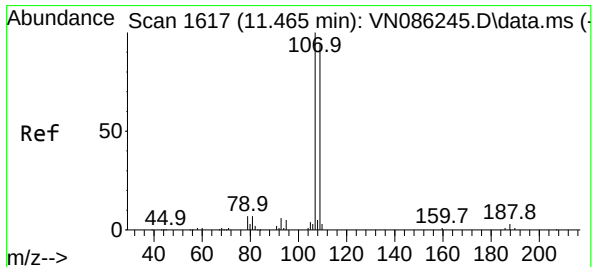
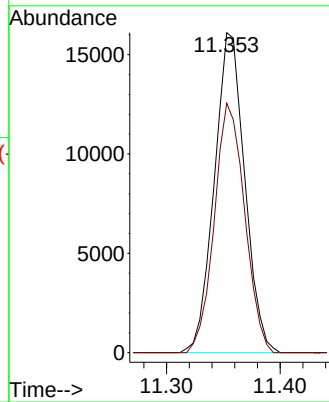
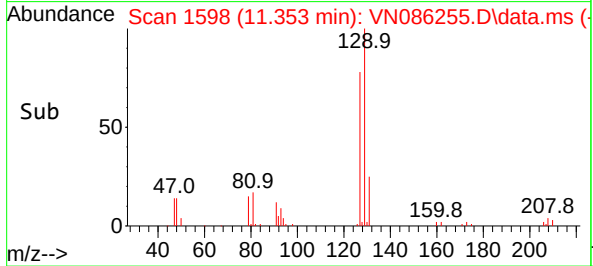
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:129 Resp: 29962
Ion Ratio Lower Upper
129 100
127 77.7 38.5 115.5

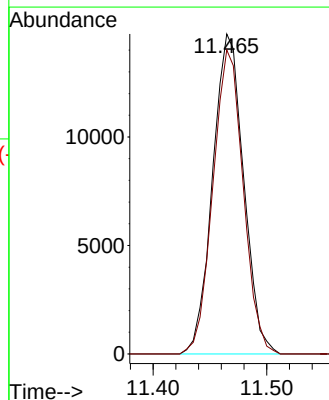
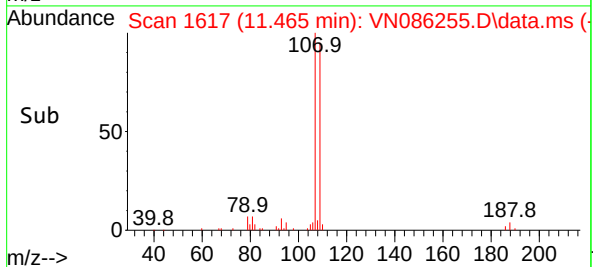
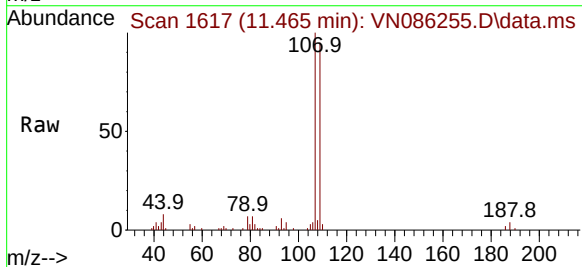
Manual Integrations
APPROVED

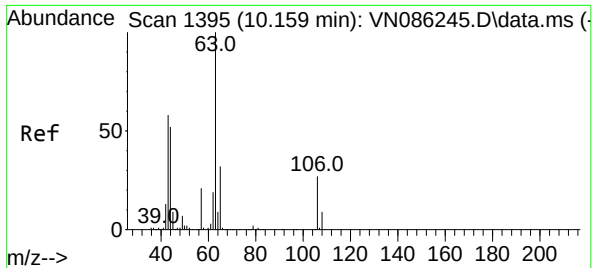
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 19.603 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

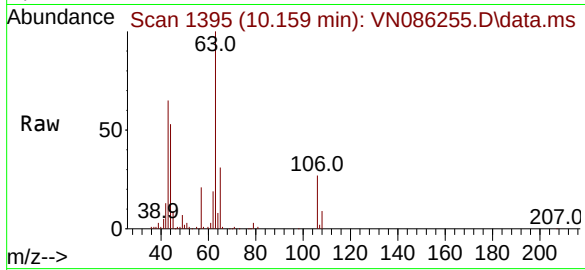
Tgt Ion:107 Resp: 27931
Ion Ratio Lower Upper
107 100
109 92.9 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 99.189 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

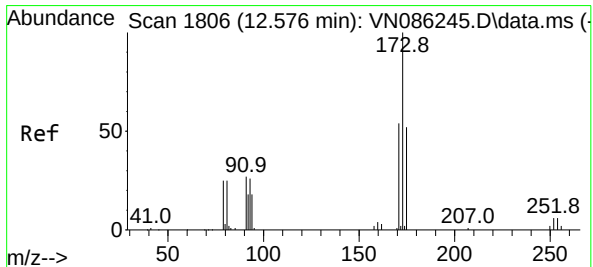
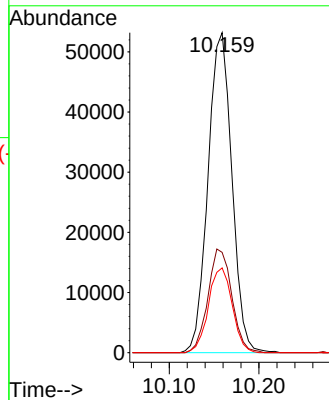
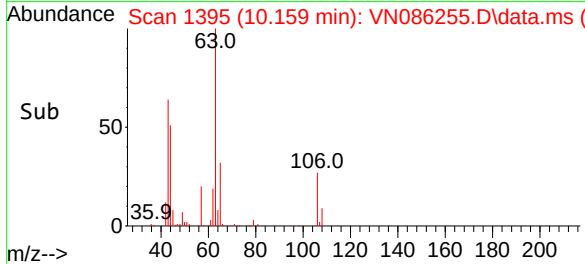
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 63 Resp: 98312
Ion Ratio Lower Upper
63 100
65 32.4 25.8 38.8
106 26.4 21.8 32.8

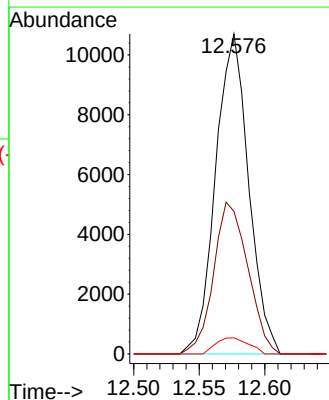
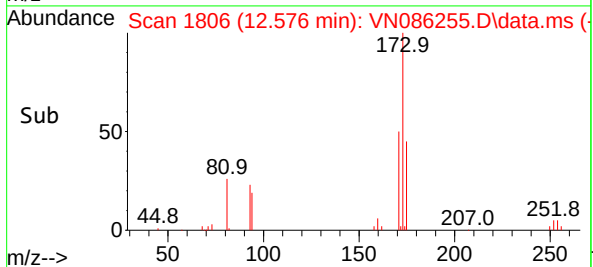
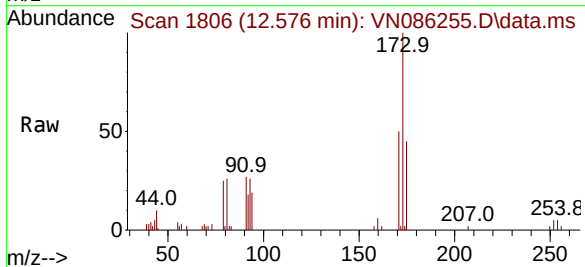
Manual Integrations
APPROVED

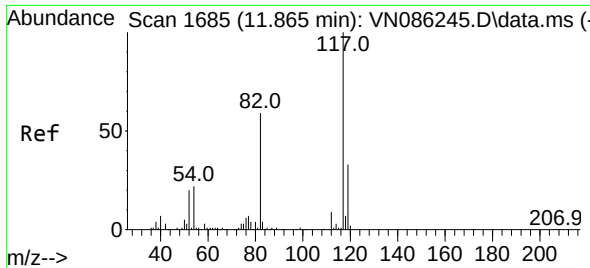
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 18.566 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

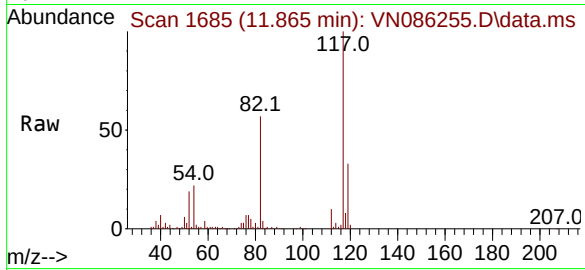
Tgt Ion:173 Resp: 18754
Ion Ratio Lower Upper
173 100
175 49.1 38.2 57.4
254 5.0 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

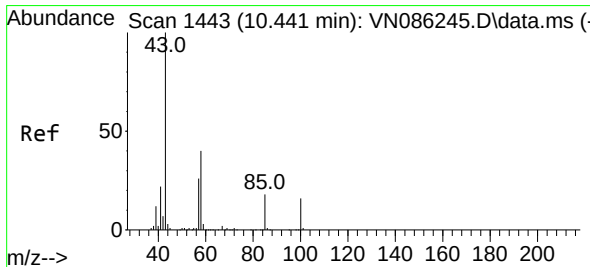
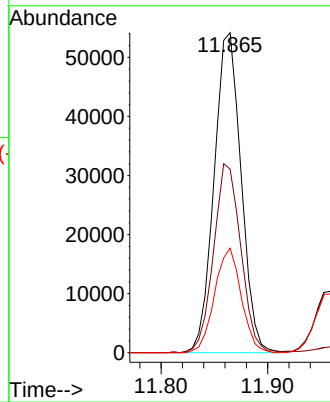
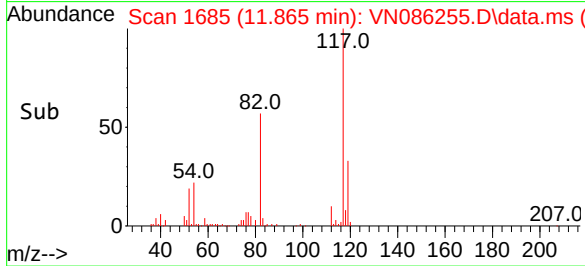
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 117 Resp: 95362
Ion Ratio Lower Upper
117 100
82 59.6 47.3 70.9
119 32.2 25.9 38.9

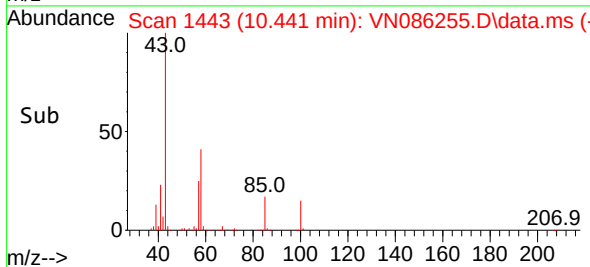
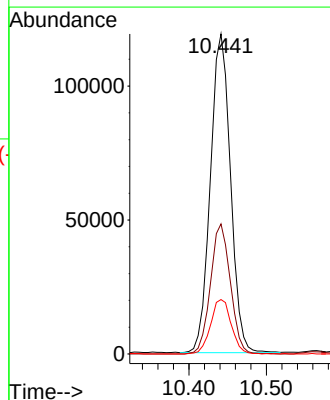
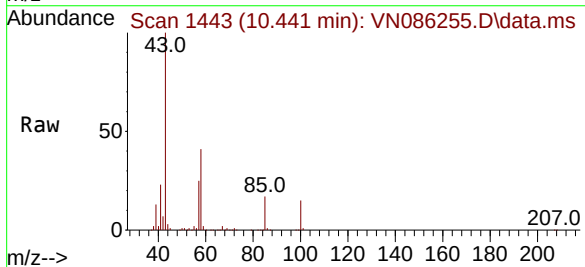
Manual Integrations
APPROVED

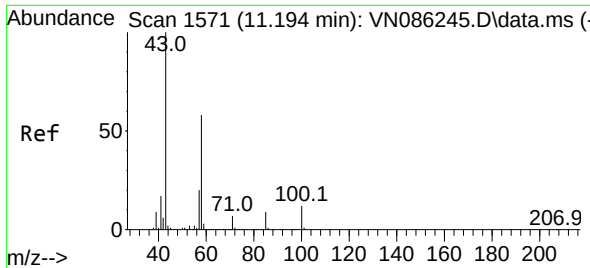
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 99.184 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

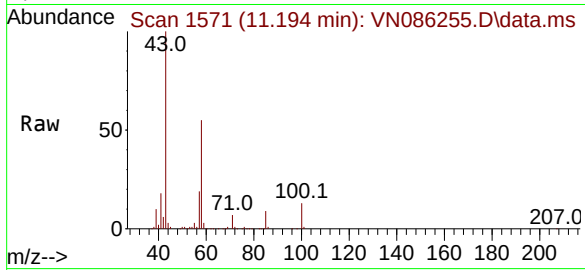
Tgt Ion: 43 Resp: 214641
Ion Ratio Lower Upper
43 100
58 40.3 32.5 48.7
85 17.5 14.4 21.6





#59
2-Hexanone
Concen: 98.104 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

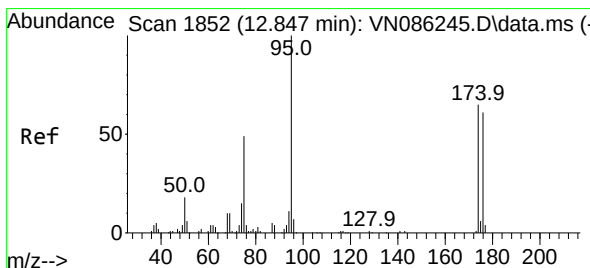
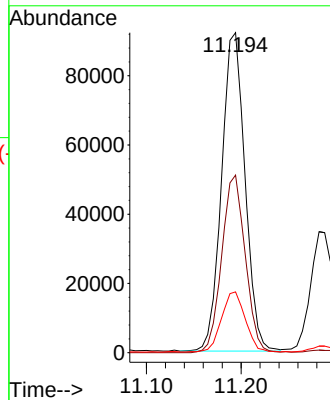
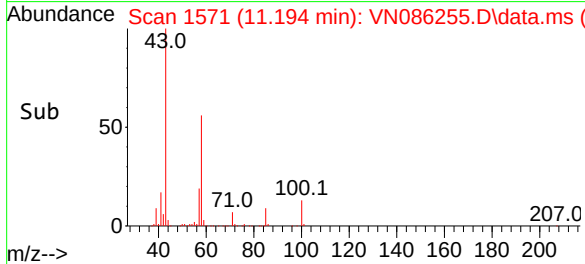
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 43 Resp: 158086
Ion Ratio Lower Upper
43 100
58 55.9 45.3 67.9
57 19.1 15.8 23.6

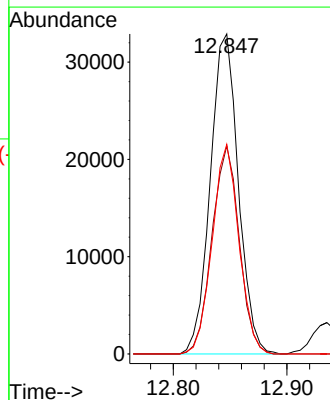
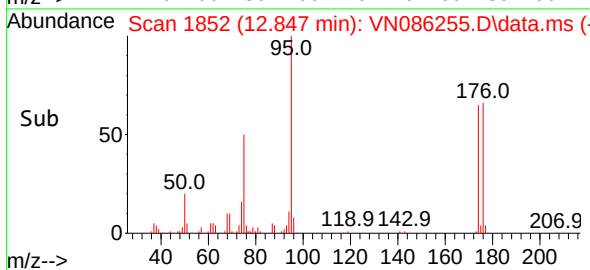
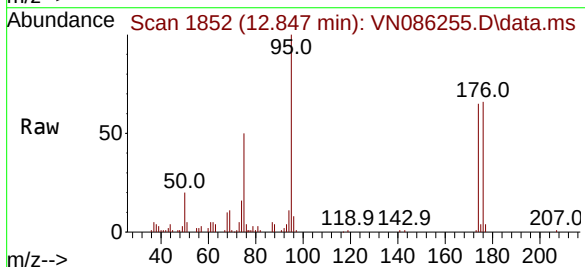
Manual Integrations
APPROVED

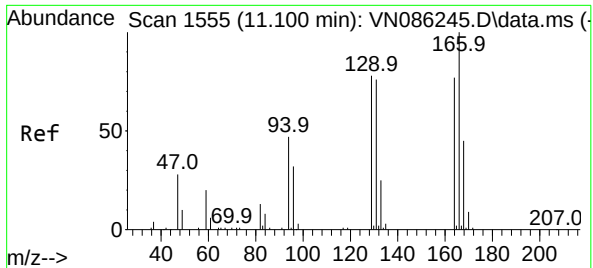
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 29.786 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

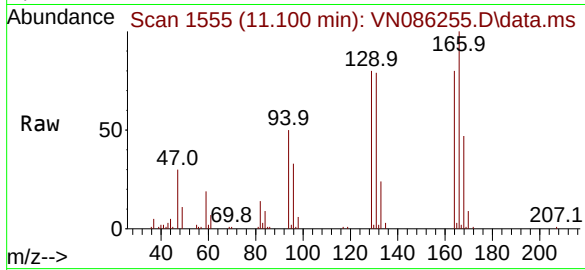
Tgt Ion: 95 Resp: 56553
Ion Ratio Lower Upper
95 100
174 63.1 52.7 79.1
176 62.3 49.8 74.8





#61
Tetrachloroethene
Concen: 19.697 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

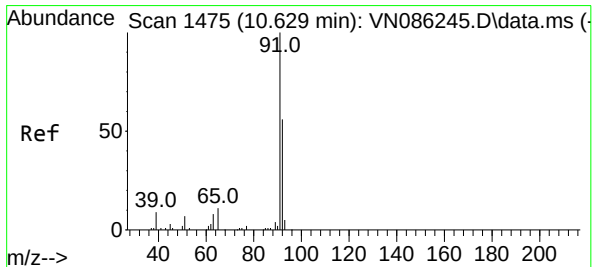
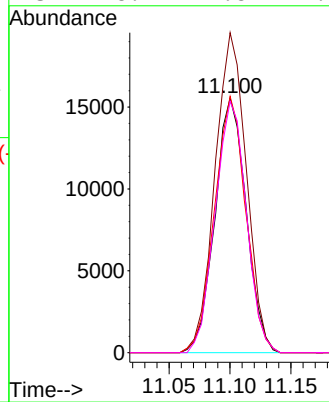
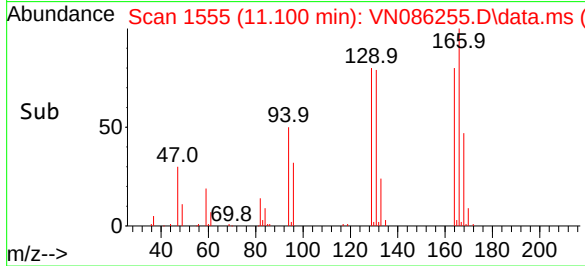
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:164 Resp: 27738
Ion Ratio Lower Upper
164 100
166 125.7 104.5 156.7
129 100.7 81.7 122.5
131 98.7 79.8 119.6

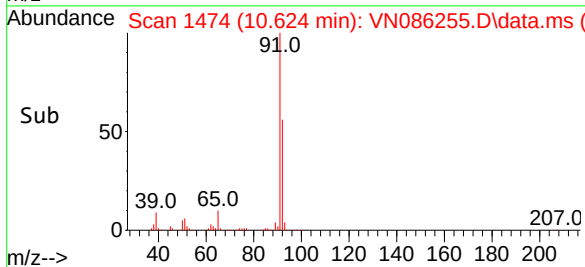
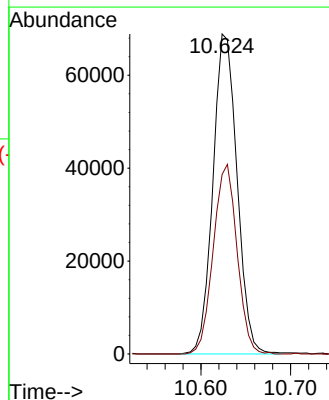
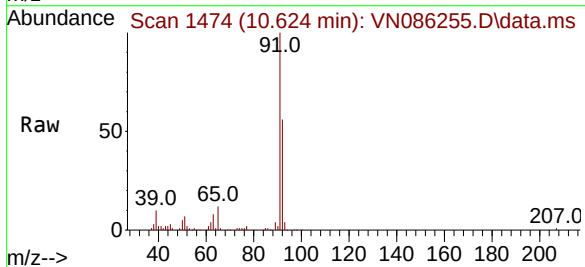
Manual Integrations
APPROVED

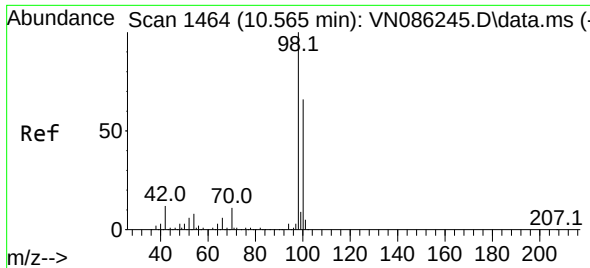
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 20.118 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

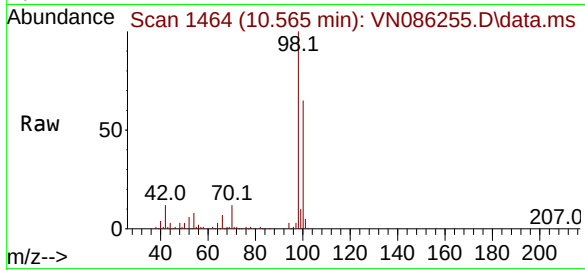
Tgt Ion: 91 Resp: 128682
Ion Ratio Lower Upper
91 100
92 58.2 46.8 70.2





#63
Toluene-d8
Concen: 30.752 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

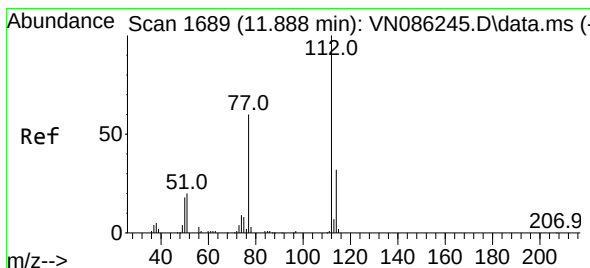
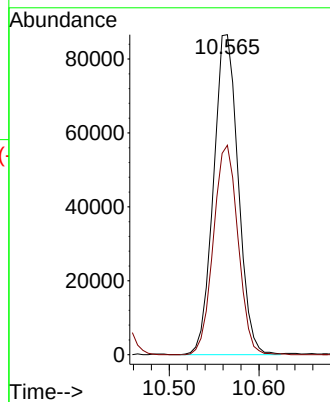
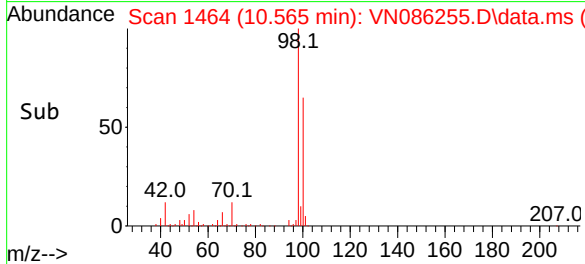
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 98 Resp: 165558
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5

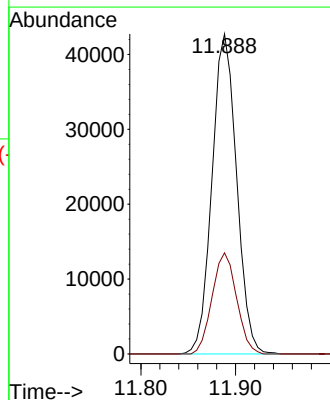
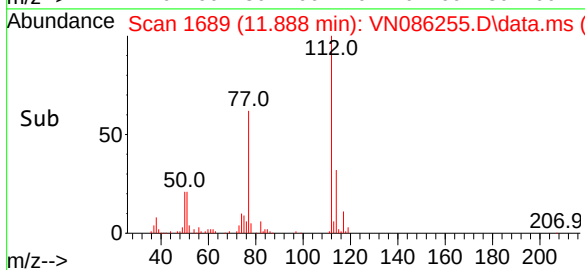
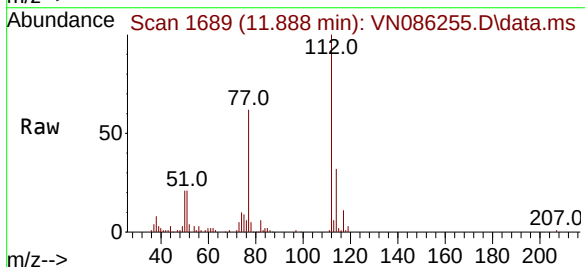
Manual Integrations
APPROVED

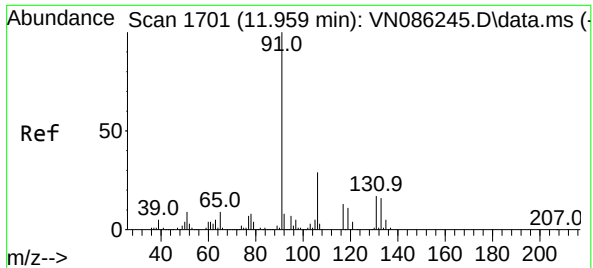
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 19.736 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

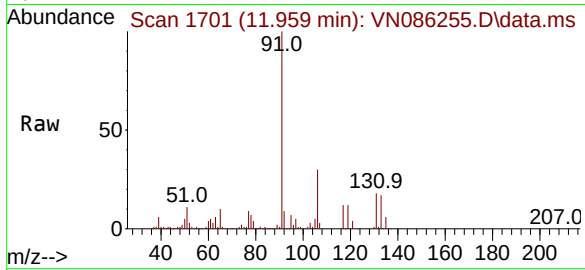
Tgt Ion:112 Resp: 77123
Ion Ratio Lower Upper
112 100
114 31.6 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 20.177 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

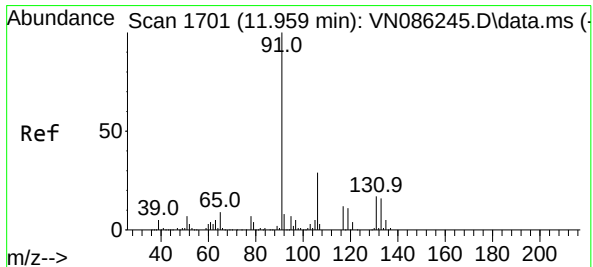
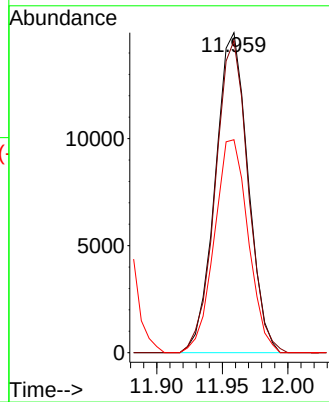
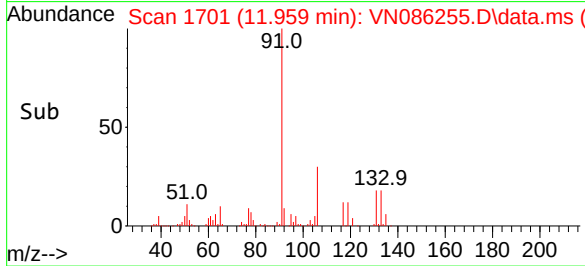
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:131 Resp: 2602
Ion Ratio Lower Upper
131 100
133 97.4 0.0 190.4
119 68.5 0.0 135.6

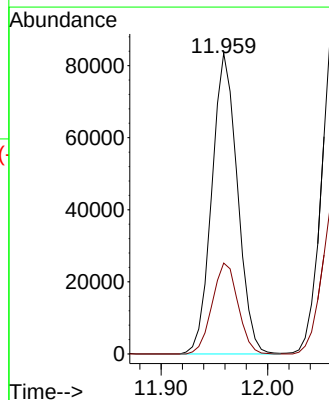
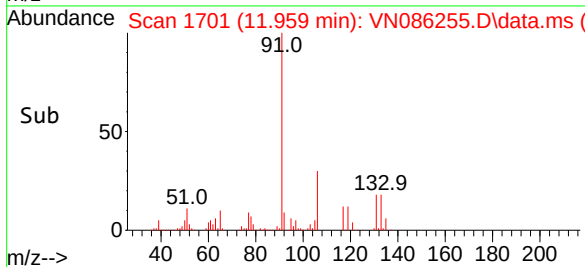
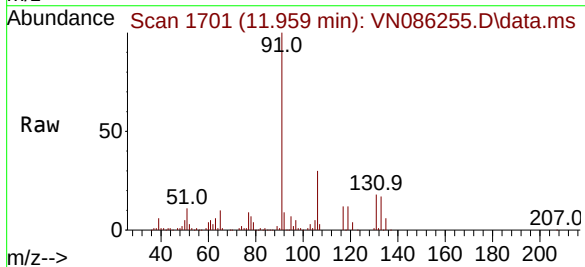
Manual Integrations
APPROVED

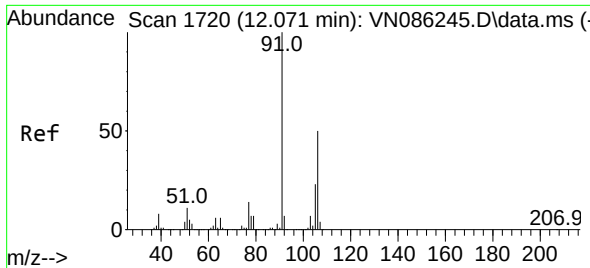
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 19.639 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

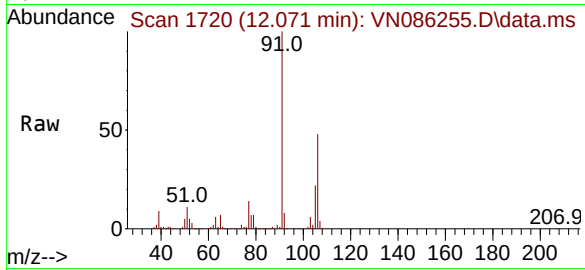
Tgt Ion: 91 Resp: 139309
Ion Ratio Lower Upper
91 100
106 30.2 23.4 35.0





#67
m/p-Xylenes
Concen: 38.563 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

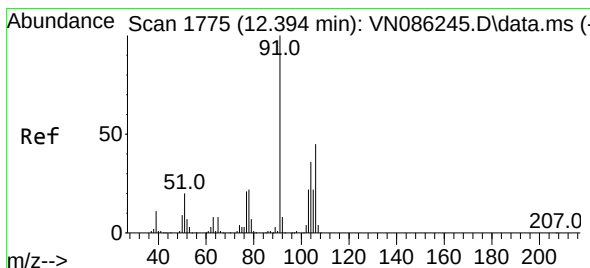
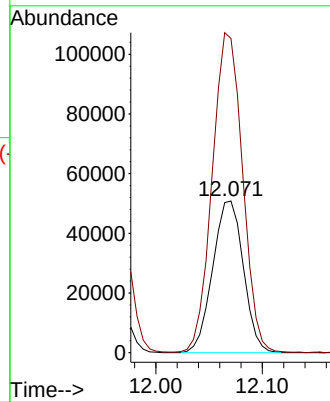
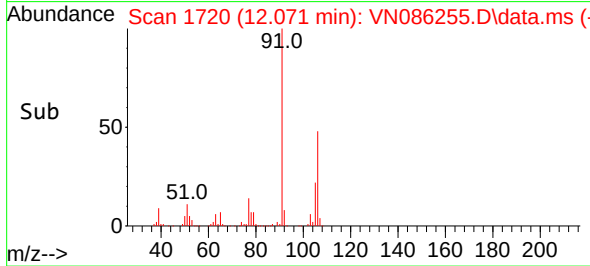
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:106 Resp: 101714
Ion Ratio Lower Upper
106 100
91 208.9 164.5 246.7

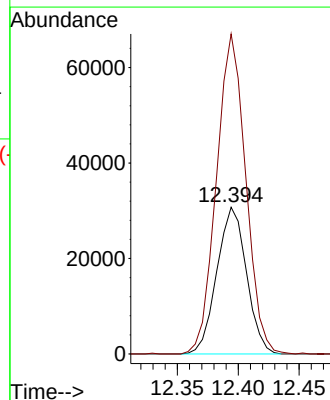
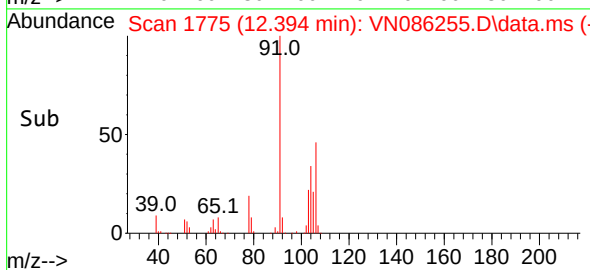
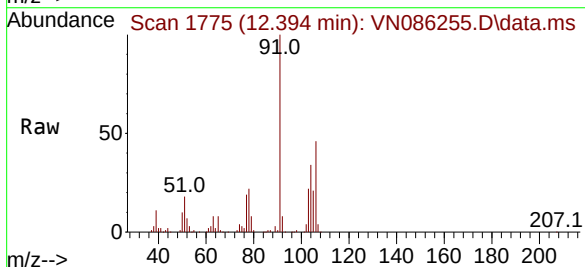
Manual Integrations
APPROVED

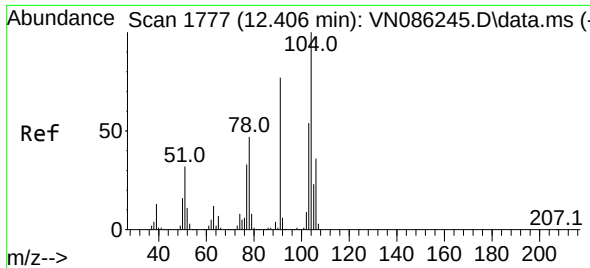
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 20.058 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

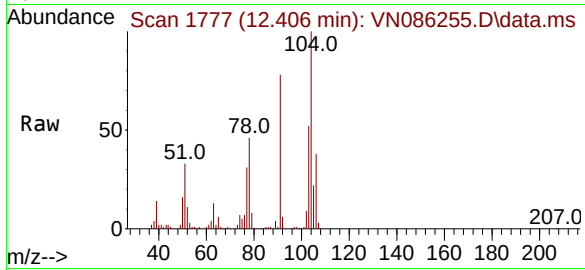
Tgt Ion:106 Resp: 52037
Ion Ratio Lower Upper
106 100
91 215.7 109.8 329.4





#69
Styrene
Concen: 19.187 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

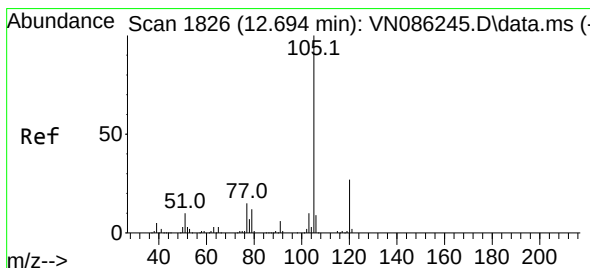
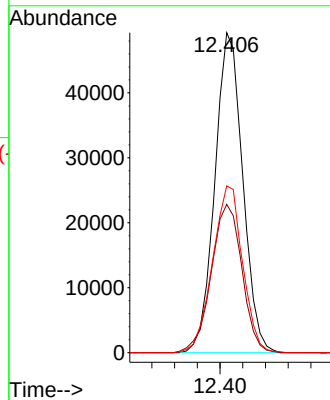
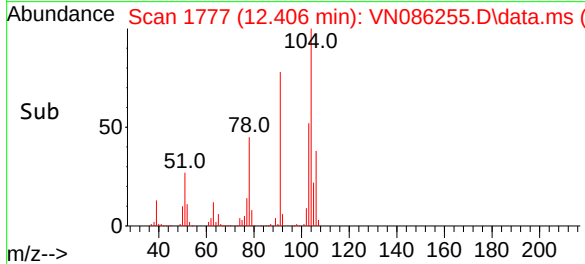
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:104 Resp: 83949
Ion Ratio Lower Upper
104 100
78 50.8 41.4 62.0
103 56.2 44.2 66.4

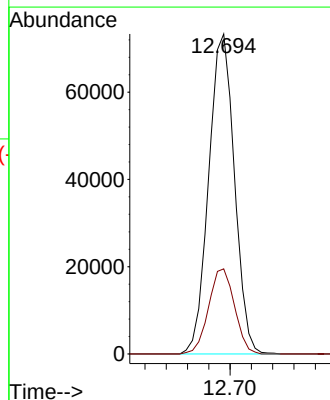
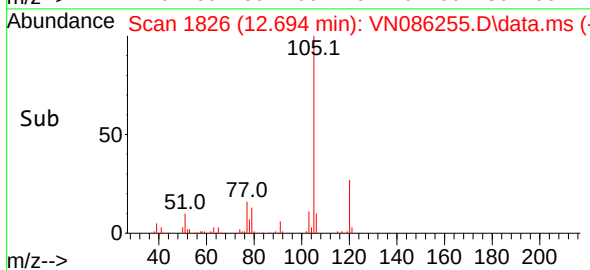
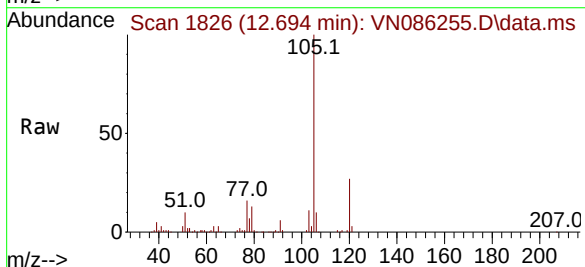
Manual Integrations
APPROVED

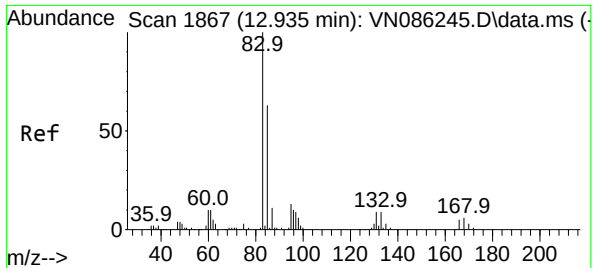
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 19.260 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:105 Resp: 123201
Ion Ratio Lower Upper
105 100
120 26.7 18.3 34.1





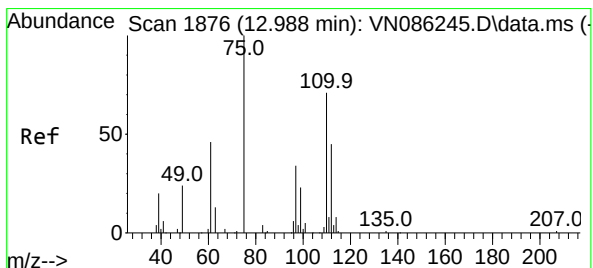
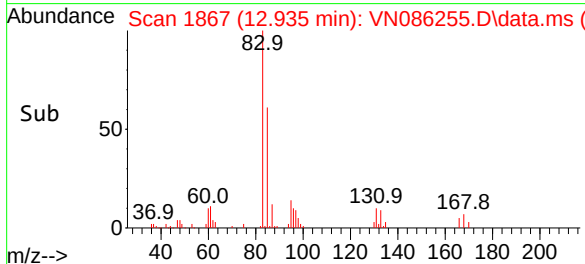
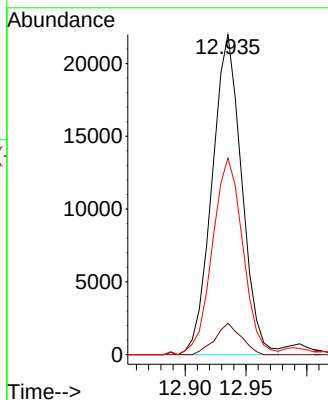
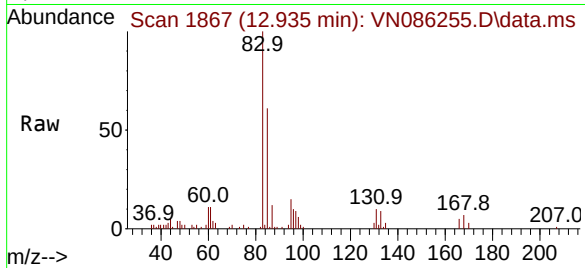
#71
1,1,2,2-Tetrachloroethane
Concen: 20.449 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 83 Resp: 3723
Ion Ratio Lower Upper
83 100
131 8.7 4.8 14.3
85 63.2 32.3 96.8

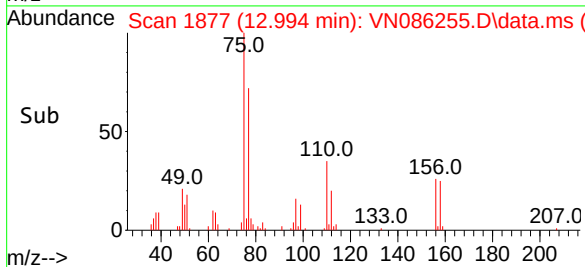
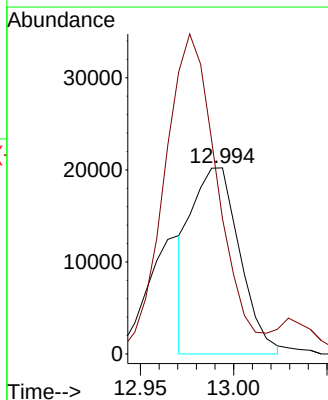
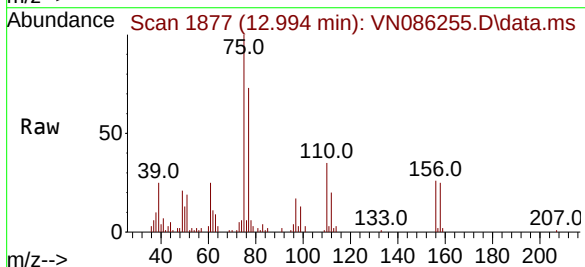
Manual Integrations
APPROVED

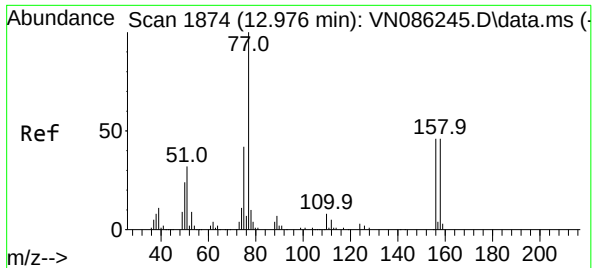
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 19.193 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 75 Resp: 36376
Ion Ratio Lower Upper
75 100
77 191.2 0.0 380.0





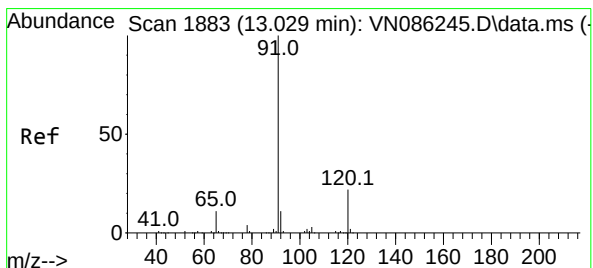
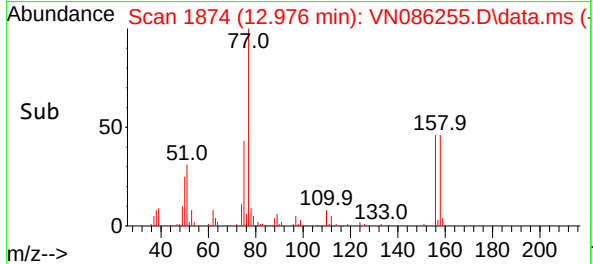
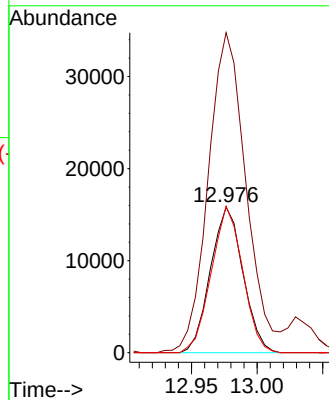
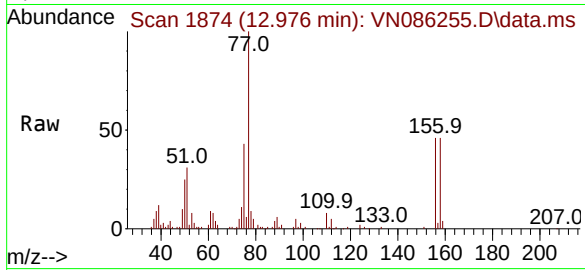
#73
Bromobenzene
Concen: 19.245 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:156 Resp: 2727
Ion Ratio Lower Upper
156 100
77 255.1 0.0 505.2
158 97.0 0.0 195.0

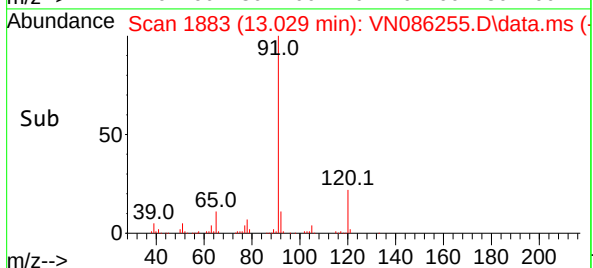
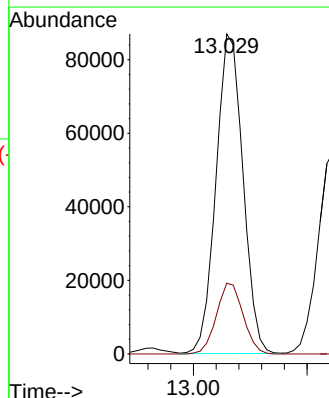
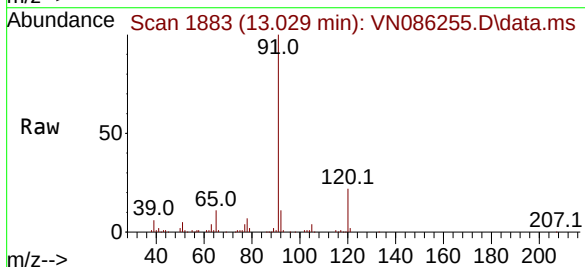
Manual Integrations
APPROVED

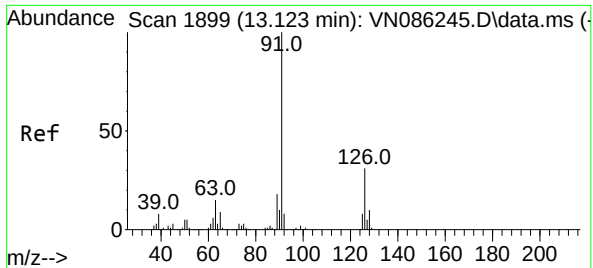
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 18.944 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 91 Resp: 143093
Ion Ratio Lower Upper
91 100
120 21.9 0.0 44.0





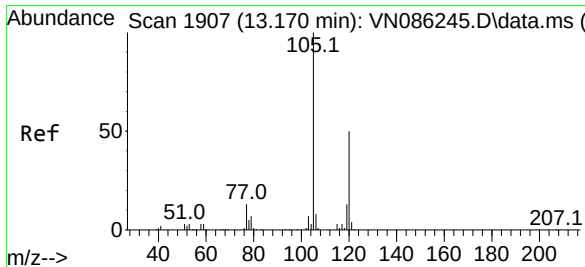
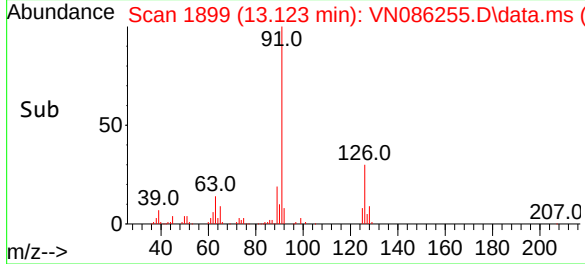
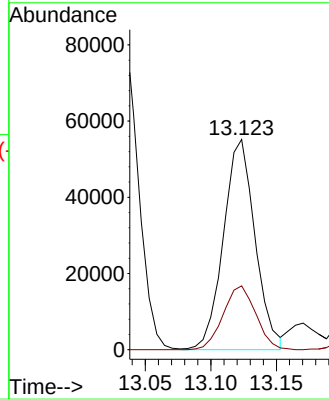
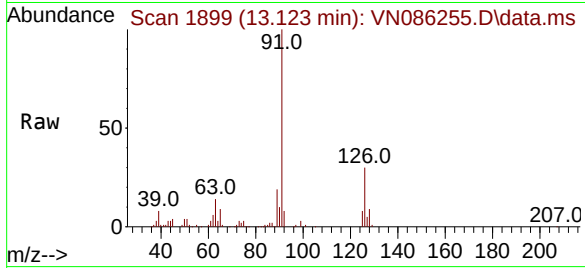
#75
2-Chlorotoluene
Concen: 19.514 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 91 Resp: 9264
Ion Ratio Lower Upper
91 100
126 31.3 0.0 63.4

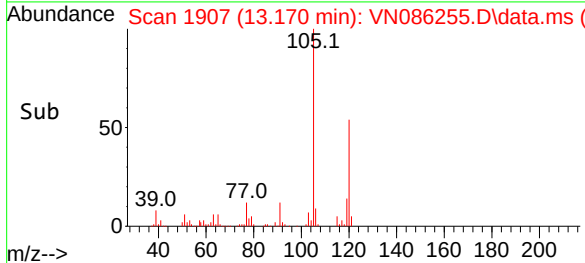
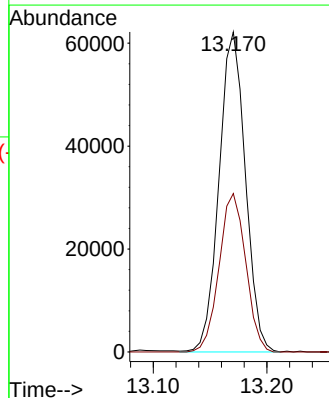
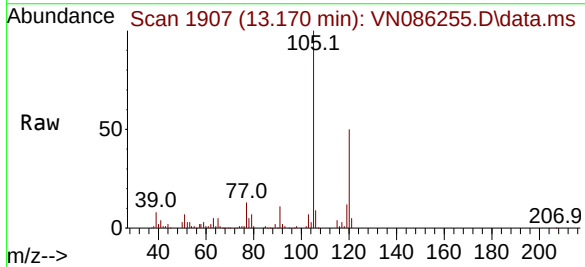
Manual Integrations
APPROVED

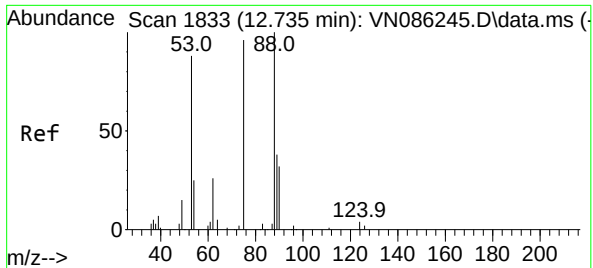
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.025 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

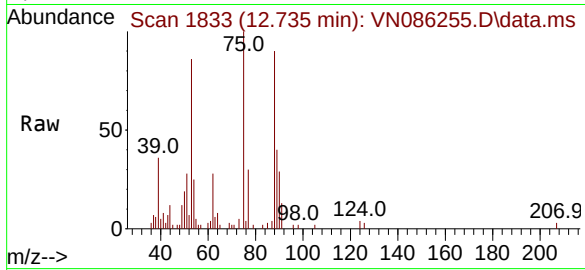
Tgt Ion:105 Resp: 99973
Ion Ratio Lower Upper
105 100
120 50.0 0.0 98.0





#77
t-1,4-Dichloro-2-butene
Concen: 18.869 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

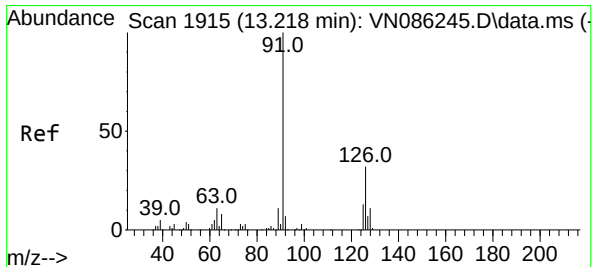
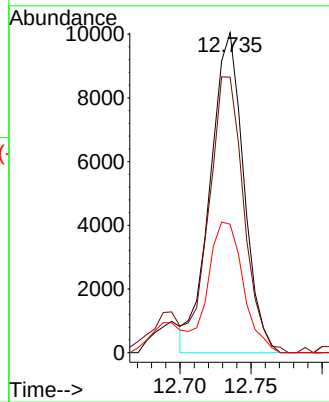
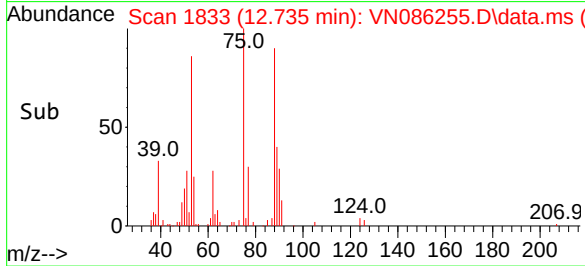
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion: 75 Resp: 16490
Ion Ratio Lower Upper
75 100
53 84.4 46.4 139.2
89 40.2 22.5 67.5

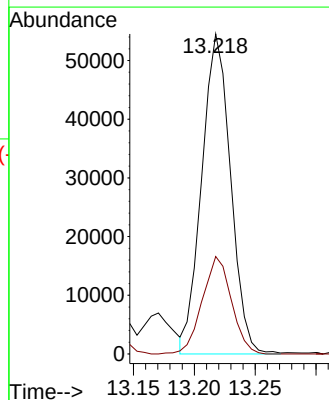
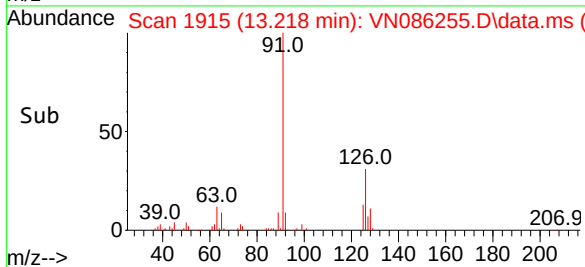
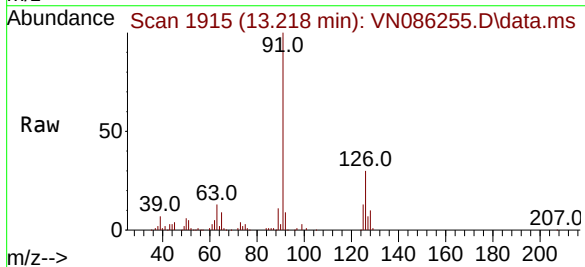
Manual Integrations
APPROVED

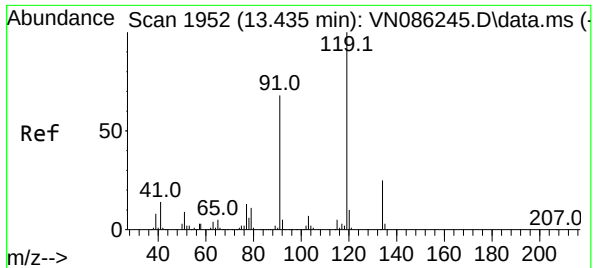
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 18.983 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

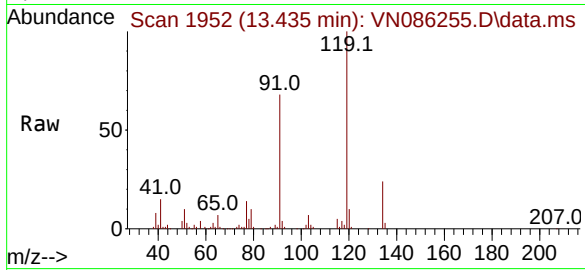
Tgt Ion: 91 Resp: 90011
Ion Ratio Lower Upper
91 100
126 30.7 0.0 63.2





#79
tert-butylbenzene
Concen: 19.039 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

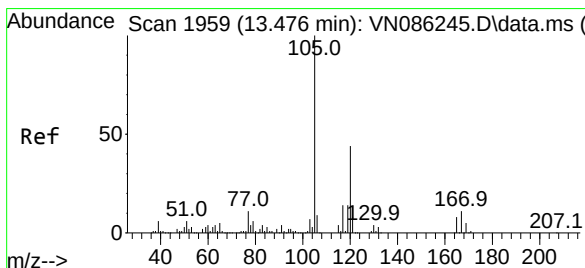
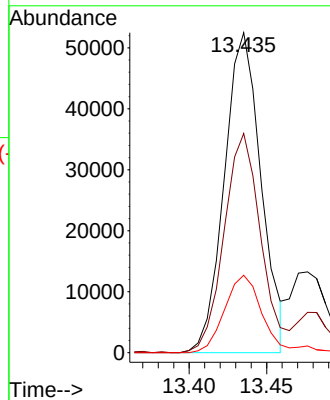
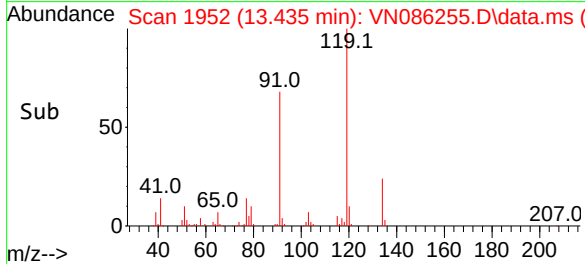
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion	Ratio	Lower	Upper
119	100		
91	68.8	0.0	136.6
134	24.1	0.0	49.4

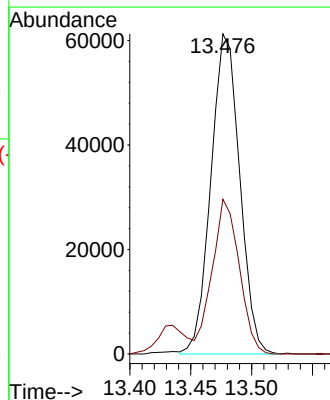
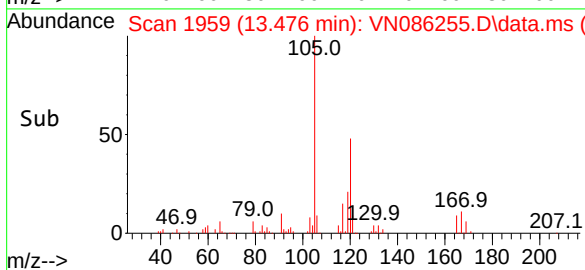
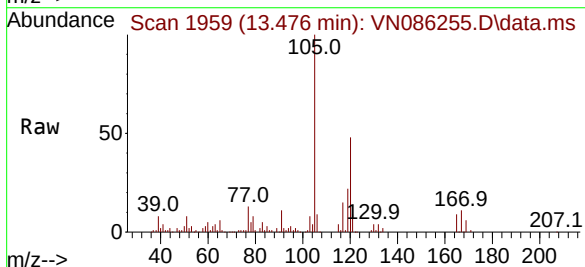
Manual Integrations
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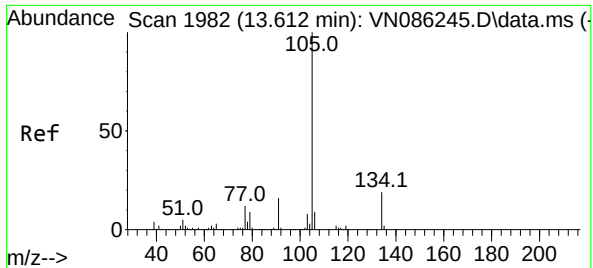
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#80
1,2,4-Trimethylbenzene
Concen: 18.911 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	0.0	91.0





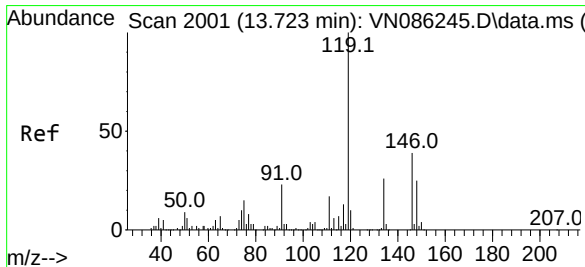
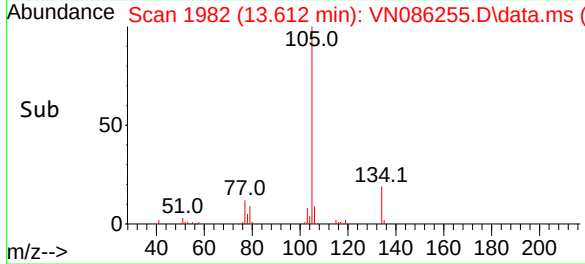
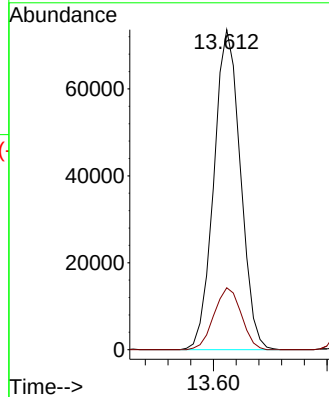
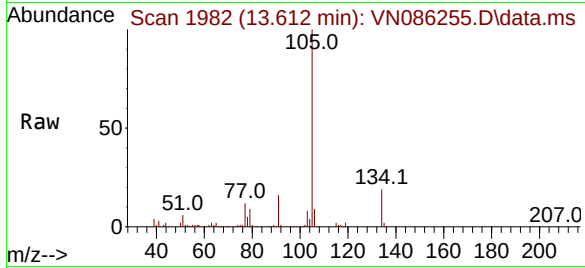
#81
 sec-Butylbenzene
 Concen: 18.880 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion:105 Resp: 119744
 Ion Ratio Lower Upper
 105 100
 134 19.8 0.0 38.6

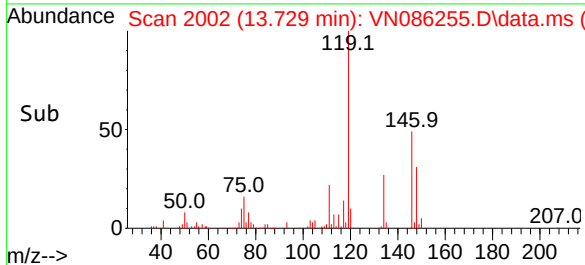
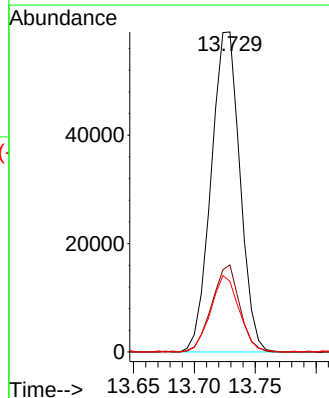
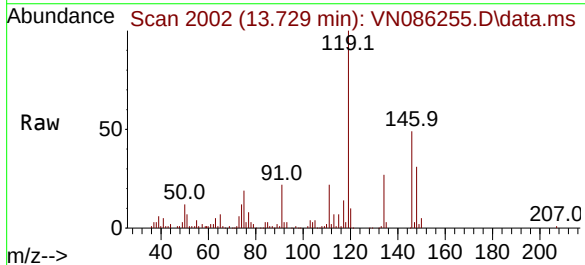
Manual Integrations
 APPROVED

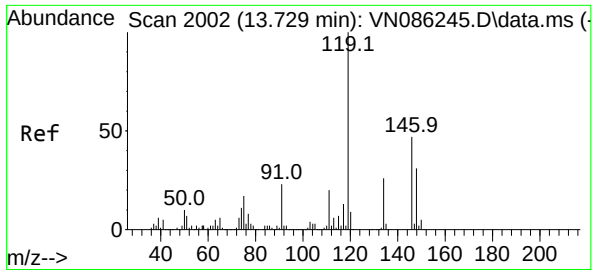
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#82
 p-Isopropyltoluene
 Concen: 18.394 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

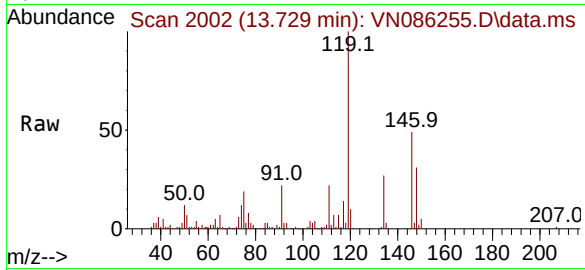
Tgt Ion:119 Resp: 97324
 Ion Ratio Lower Upper
 119 100
 134 26.2 0.0 51.6
 91 23.8 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 18.499 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

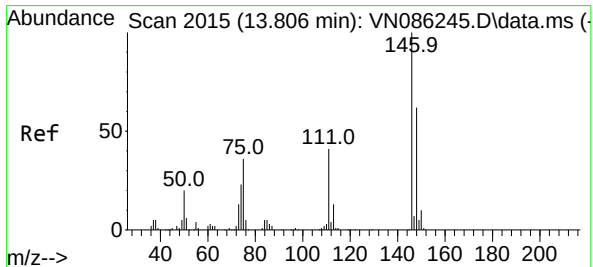
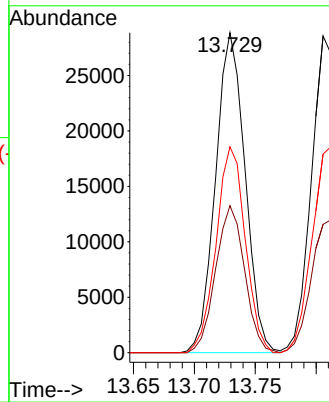
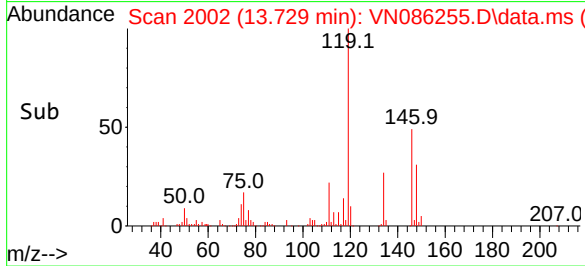
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:146 Resp: 48729
Ion Ratio Lower Upper
146 100
111 45.1 21.7 65.1
148 63.5 32.3 96.8

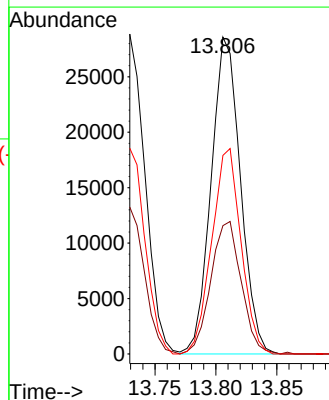
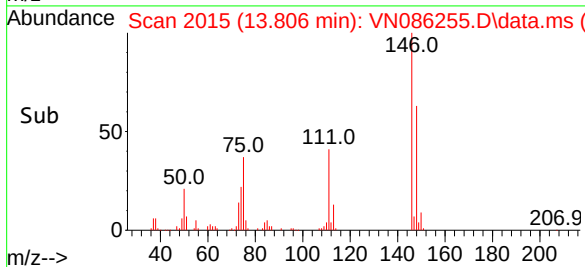
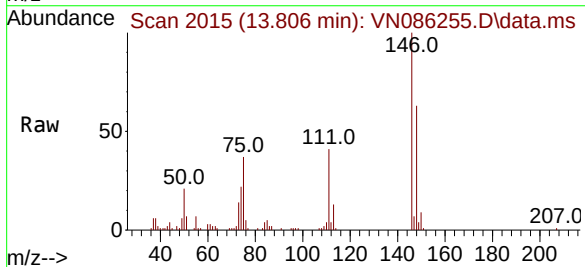
Manual Integrations
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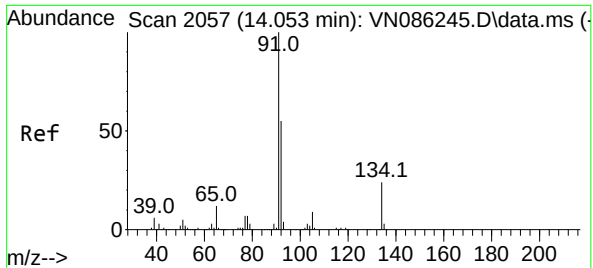
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#84
1,4-Dichlorobenzene
Concen: 18.098 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:146 Resp: 47819
Ion Ratio Lower Upper
146 100
111 43.4 20.8 62.4
148 64.8 31.9 95.5





#85

n-Butylbenzene

Concen: 17.764 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

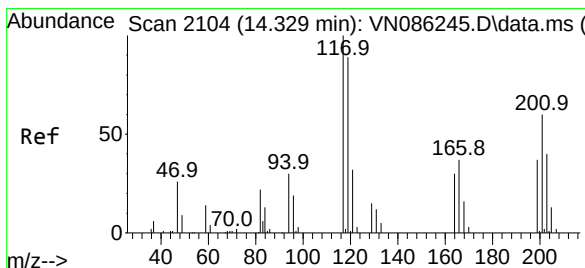
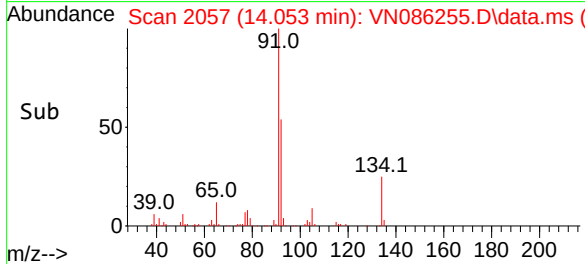
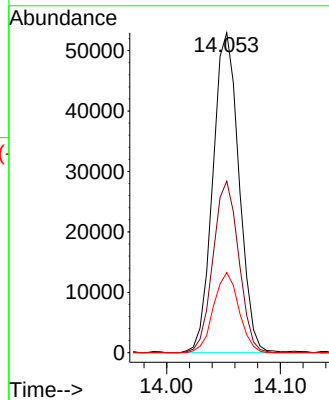
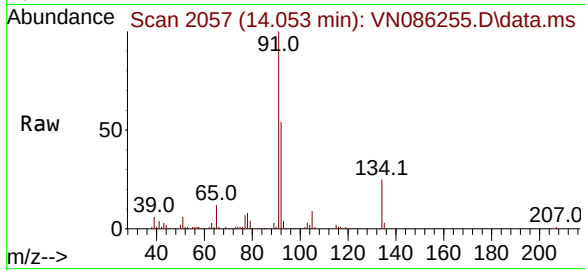
Tgt Ion: 91	Resp: 8479
Ion Ratio	Lower Upper
91 100	
92 52.7	0.0 109.4
134 24.3	0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 19.231 ug/l

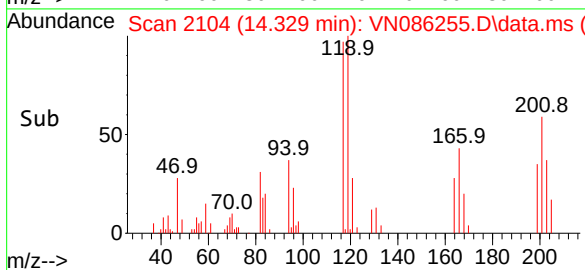
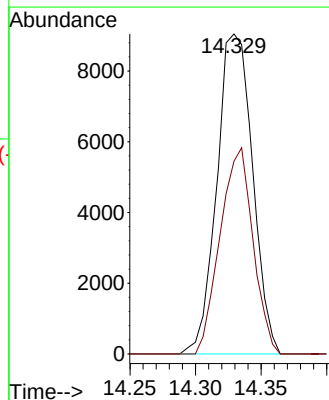
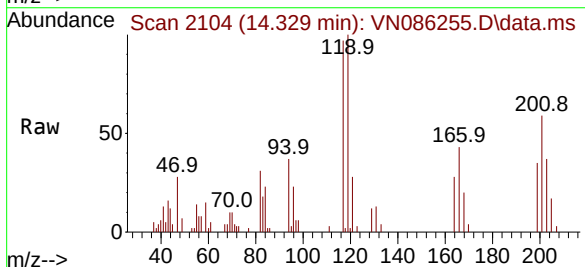
RT: 14.329 min Scan# 2104

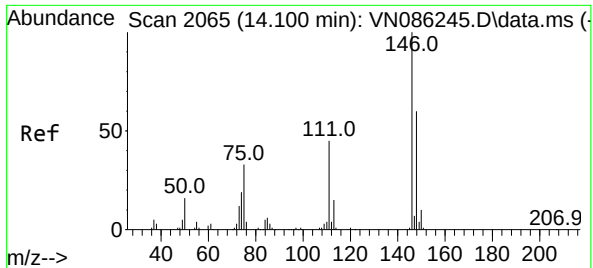
Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

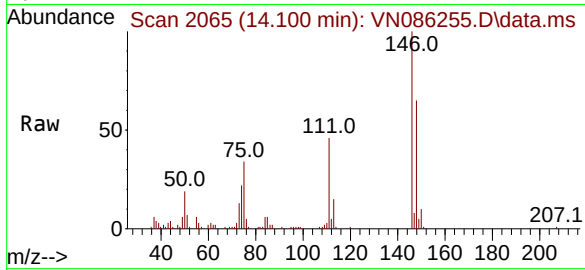
Tgt Ion: 117	Resp: 17164
Ion Ratio	Lower Upper
117 100	
201 59.2	30.9 92.8





#87
1,2-Dichlorobenzene
Concen: 18.791 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

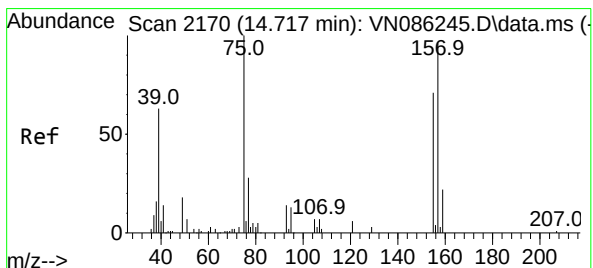
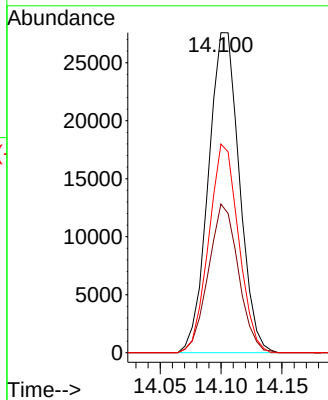
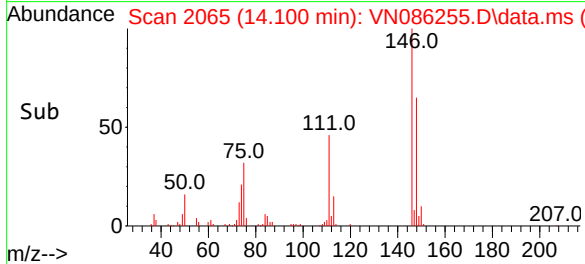
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:146 Resp: 4886
Ion Ratio Lower Upper
146 100
111 45.1 22.7 68.0
148 62.7 31.8 95.3

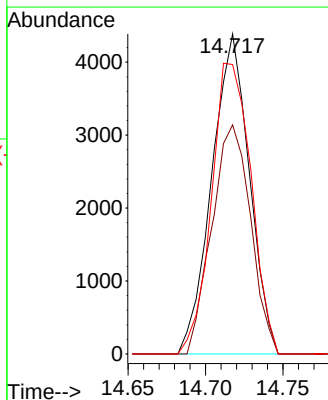
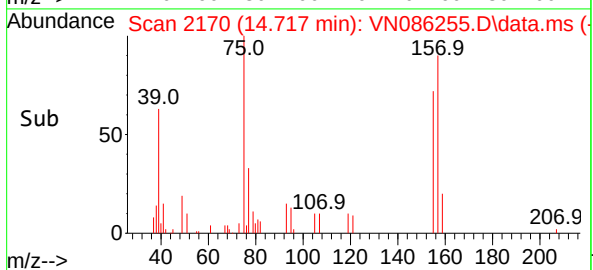
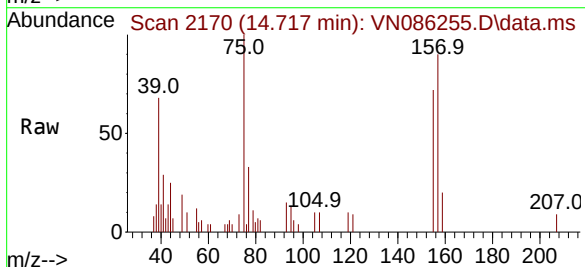
Manual Integrations
APPROVED

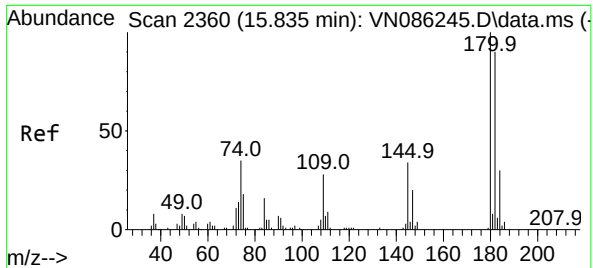
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#88
1,2-Dibromo-3-Chloropropane
Concen: 17.808 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

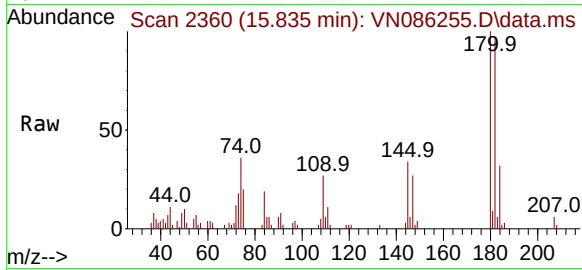
Tgt Ion: 75 Resp: 7385
Ion Ratio Lower Upper
75 100
155 73.8 60.3 90.5
157 95.7 79.0 118.4





#89
1,2,4-Trichlorobenzene
Concen: 16.646 ug/l
RT: 15.835 min Scan# 2106
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

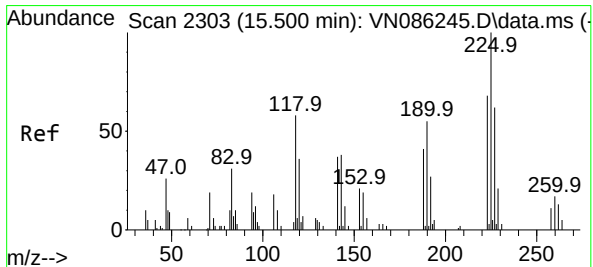
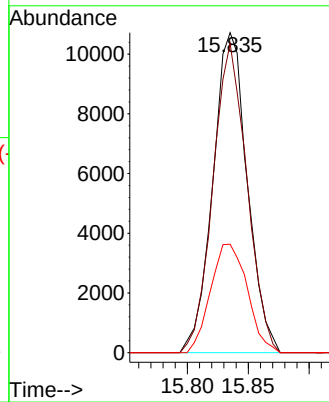
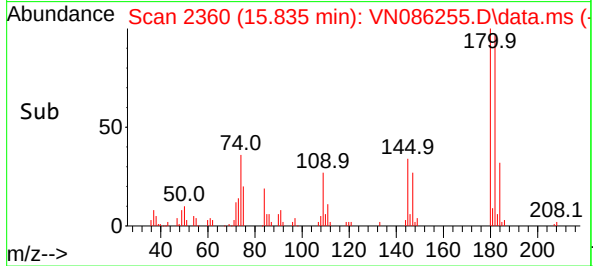
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



Tgt Ion:180 Resp: 2106
Ion Ratio Lower Upper
180 100
182 95.2 75.1 112.7
145 36.2 27.1 40.7

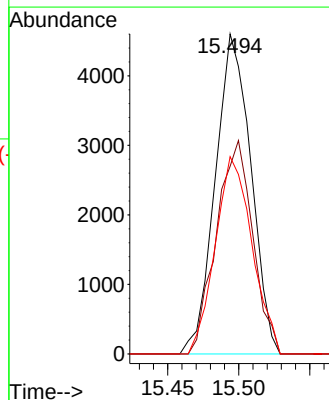
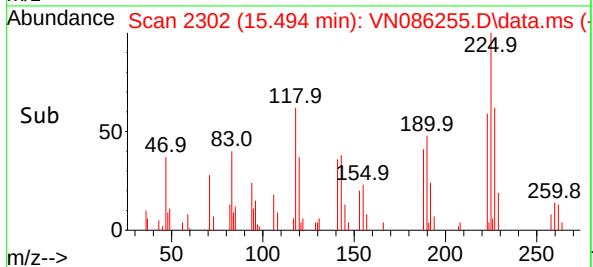
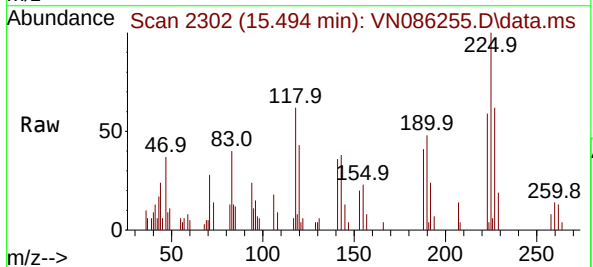
Manual Integrations
APPROVED

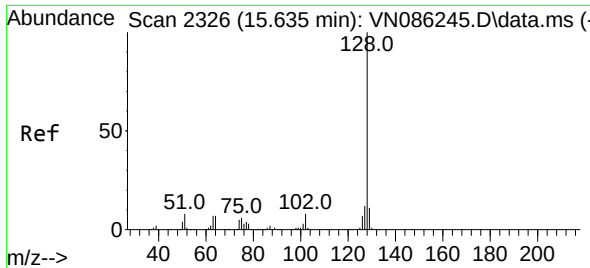
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#90
Hexachlorobutadiene
Concen: 14.656 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

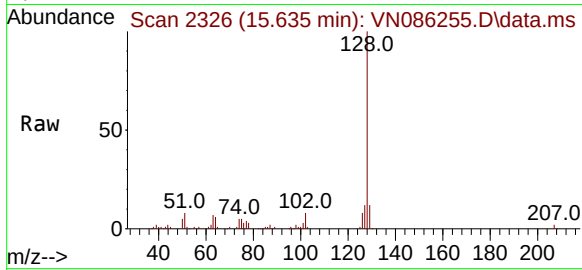
Tgt Ion:225 Resp: 8007
Ion Ratio Lower Upper
225 100
223 68.3 0.0 130.0
227 63.9 0.0 123.2





#91
Naphthalene
Concen: 16.677 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

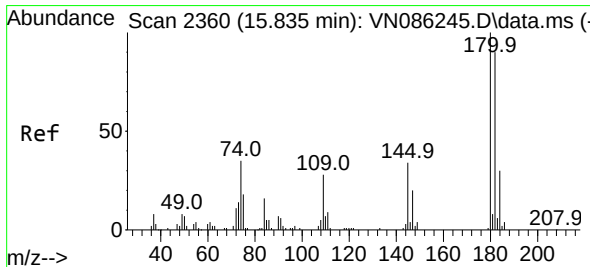
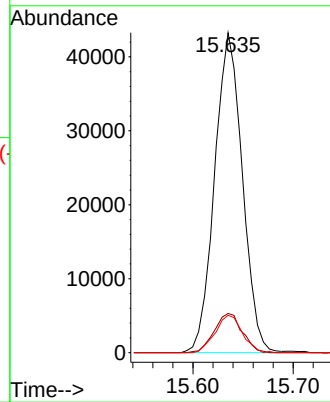
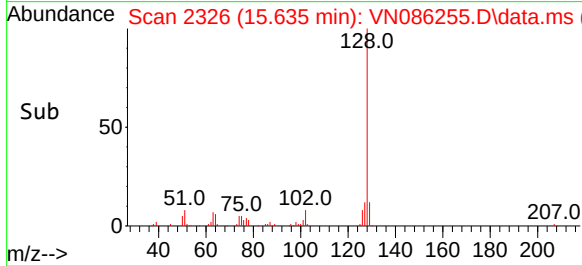
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC



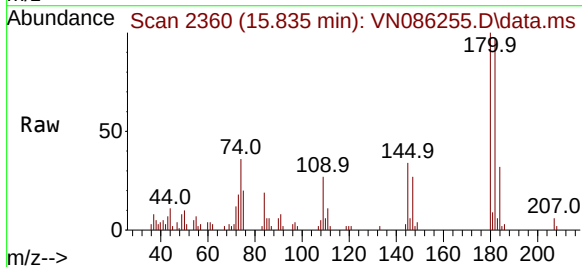
Tgt Ion:128 Resp: 8320
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 11.3 8.8 13.2

Manual Integrations
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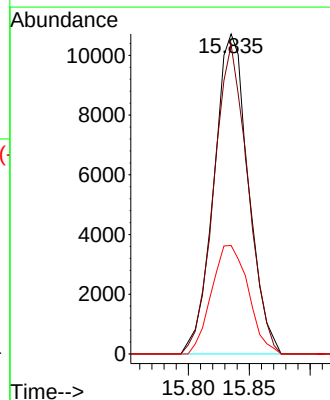
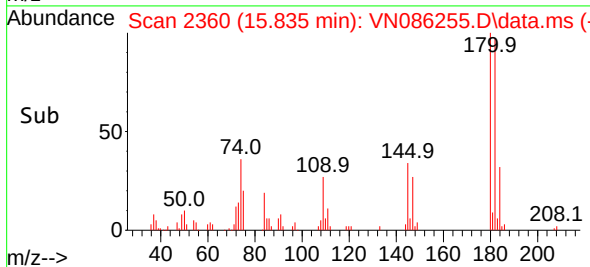
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 16.646 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28



Tgt Ion:180 Resp: 21063
Ion Ratio Lower Upper
180 100
182 95.2 0.0 187.8
145 36.2 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	61	0.00
2 M	Dichlorodifluoromethane	2.404	2.329	3.1	61	0.00
3 M	Chloromethane	3.322	3.290	1.0	65	0.00
4 M	Vinyl Chloride	3.164	3.093	2.2	63	0.00
5 M	Bromomethane	1.578	1.524	3.4	63	0.00
6 M	Chloroethane	1.998	1.989	0.5	65	0.00
7 M	Trichlorofluoromethane	3.433	3.320	3.3	63	0.00
8 T	Diethyl Ether	1.583	1.500	5.2	62	0.00
9	1,1,2-Trichlorotrifluoroeth	2.117	1.981	6.4	60	0.00
10 M	1,1-Dichloroethene	2.284	2.142	6.2	61	0.00
11	Methyl Iodide	2.626	2.513	4.3	62	0.00
12	Methyl Acetate	3.226	2.973	7.8	61	0.00
13 M	Acrolein	0.367	0.303	17.4	68	0.00
14 M	Acrylonitrile	1.362	1.283	5.8	61	0.00
15 M	Acetone	0.345	0.315	8.7	58	0.00
16 M	Carbon Disulfide	6.550	6.271	4.3	61	0.00
17	Allyl chloride	3.981	3.901	2.0	64	0.00
18 M	Methylene Chloride	2.605	2.476	5.0	63	0.00
19 M	trans-1,2-Dichloroethene	2.406	2.267	5.8	62	0.00
20 T	Diisopropyl ether	8.560	7.608	11.1	57	0.00
21 M	1,1-Dichloroethane	4.567	4.406	3.5	62	0.00
22 M	cis-1,2-Dichloroethene	2.866	2.731	4.7	62	0.00
23 M	tert-Butyl Alcohol	0.564	0.506	10.3	57	0.00
24 M	Methyl tert-Butyl Ether	8.244	7.740	6.1	61	0.00
25 M	Chloroform	4.355	4.229	2.9	63	0.00
26	Cyclohexane	4.273	4.002	6.3	62	0.00
27 s	1,2-Dichloroethane-d4	2.926	2.837	3.0	60	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	59	0.00
29	1,1-Dichloropropene	0.537	0.536	0.2	62	0.00
30 M	2-Butanone	0.298	0.289	3.0	59	0.00
31	2,2-Dichloropropane	0.662	0.630	4.8	59	0.00
32 M	1,1,1-Trichloroethane	0.618	0.613	0.8	62	0.00
33 M	Carbon Tetrachloride	0.494	0.480	2.8	60	0.00
34 M	Benzene	1.710	1.702	0.5	62	0.00
35	Methacrylonitrile	0.336	0.348	-3.6	65	0.00
36 M	1,2-Dichloroethane	0.535	0.527	1.5	61	0.00
37 M	Trichloroethene	0.413	0.390	5.6	58	0.00
38	Methylcyclohexane	0.659	0.623	5.5	60	0.00
39 M	1,2-Dichloropropane	0.425	0.419	1.4	61	0.00
40	Dibromomethane	0.275	0.273	0.7	62	0.00
41 M	Bromodichloromethane	0.590	0.577	2.2	61	0.00
42 M	Vinyl Acetate	1.014	1.033	-1.9	61	0.00
43	Ethyl Acetate	0.601	0.513	14.6	52	0.00
44	Isopropyl Acetate	1.114	1.087	2.4	61	0.00
45 T	1,4-Dioxane	0.009	0.009	0.0	60	0.00
46	Methyl methacrylate	0.491	0.468	4.7	59	0.00
47	n-amyl Acetate	0.883	0.787	10.9	57	0.00
48 M	t-1,3-Dichloropropene	0.667	0.639	4.2	60	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.706	0.700	0.8	61	0.00
50 M	1,1,2-Trichloroethane	0.385	0.372	3.4	59	0.00
51	Ethyl methacrylate	0.716	0.672	6.1	59	0.00
52	1,3-Dichloropropane	0.687	0.678	1.3	62	0.00
53 M	Dibromochloromethane	0.422	0.409	3.1	60	0.00
54 M	1,2-Dibromoethane	0.389	0.381	2.1	61	0.00
55 M	2-Chloroethyl vinyl ether	0.271	0.268	1.1	49#	0.00
56 M	Bromoform	0.276	0.256	7.2	58	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	58	0.00
58 M	4-Methyl-2-Pentanone	0.681	0.675	0.9	59	0.00
59 M	2-Hexanone	0.507	0.497	2.0	58	0.00
60 S	4-Bromofluorobenzene	0.597	0.593	0.7	58	0.00
61 M	Tetrachloroethene	0.443	0.436	1.6	60	0.00
62 M	Toluene	2.012	2.024	-0.6	61	0.00
63 S	Toluene-d8	1.694	1.736	-2.5	59	0.00
64 M	Chlorobenzene	1.229	1.213	1.3	60	0.00
65	1,1,1,2-Tetrachloroethane	0.406	0.409	-0.7	61	0.00
66 M	Ethyl Benzene	2.232	2.191	1.8	60	0.00
67 M	m/p-Xylenes	0.830	0.800	3.6	59	0.00
68 M	o-Xylene	0.816	0.819	-0.4	61	0.00
69 M	Styrene	1.376	1.320	4.1	59	0.00
70	Isopropylbenzene	2.012	1.938	3.7	59	0.00
71 M	1,1,2,2-Tetrachloroethane	0.573	0.586	-2.3	61	0.00
72	1,2,3-Trichloropropane	0.596	0.572	4.0	59	0.00
73	Bromobenzene	0.446	0.429	3.8	59	0.00
74	n-propylbenzene	2.376	2.251	5.3	59	0.00
75	2-Chlorotoluene	1.494	1.457	2.5	60	0.00
76	1,3,5-Trimethylbenzene	1.653	1.573	4.8	58	0.00
77	t-1,4-Dichloro-2-butene	0.275	0.259	5.8	58	0.00
78	4-Chlorotoluene	1.492	1.416	5.1	60	0.00
79	tert-butylbenzene	1.430	1.362	4.8	59	0.00
80	1,2,4-Trimethylbenzene	1.676	1.585	5.4	58	0.00
81	sec-Butylbenzene	1.995	1.884	5.6	57	0.00
82	p-Isopropyltoluene	1.664	1.531	8.0	56	0.00
83 M	1,3-Dichlorobenzene	0.829	0.766	7.6	58	0.00
84 M	1,4-Dichlorobenzene	0.831	0.752	9.5	56	0.00
85	n-Butylbenzene	1.502	1.334	11.2	55	0.00
86 T	Hexachloroethane	0.281	0.270	3.9	59	0.00
87 M	1,2-Dichlorobenzene	0.818	0.769	6.0	57	0.00
88	1,2-Dibromo-3-Chloropropane	0.130	0.116	10.8	53	0.00
89	1,2,4-Trichlorobenzene	0.398	0.331	16.8	48#	0.00
90	Hexachlorobutadiene	0.172	0.126	26.7#	44#	0.00
91 M	Naphthalene	1.569	1.309	16.6	49#	0.00
92	1,2,3-Trichlorobenzene	0.398	0.331	16.8	48#	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	61	0.00
2 M	Dichlorodifluoromethane	20.000	19.378	3.1	61	0.00
3 M	Chloromethane	20.000	19.805	1.0	65	0.00
4 M	Vinyl Chloride	20.000	19.548	2.3	63	0.00
5 M	Bromomethane	20.000	19.311	3.4	63	0.00
6 M	Chloroethane	20.000	19.909	0.5	65	0.00
7 M	Trichlorofluoromethane	20.000	19.342	3.3	63	0.00
8 T	Diethyl Ether	20.000	18.955	5.2	62	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	18.715	6.4	60	0.00
10 M	1,1-Dichloroethene	20.000	18.753	6.2	61	0.00
11	Methyl Iodide	20.000	19.145	4.3	62	0.00
12	Methyl Acetate	20.000	18.433	7.8	61	0.00
13 M	Acrolein	100.000	82.706	17.3	68	0.00
14 M	Acrylonitrile	100.000	94.238	5.8	61	0.00
15 M	Acetone	100.000	91.311	8.7	58	0.00
16 M	Carbon Disulfide	20.000	19.148	4.3	61	0.00
17	Allyl chloride	20.000	19.596	2.0	64	0.00
18 M	Methylene Chloride	20.000	19.010	4.9	63	0.00
19 M	trans-1,2-Dichloroethene	20.000	18.843	5.8	62	0.00
20 T	Diisopropyl ether	20.000	17.775	11.1	57	0.00
21 M	1,1-Dichloroethane	20.000	19.295	3.5	62	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.057	4.7	62	0.00
23 M	tert-Butyl Alcohol	100.000	89.739	10.3	57	0.00
24 M	Methyl tert-Butyl Ether	20.000	18.777	6.1	61	0.00
25 M	Chloroform	20.000	19.423	2.9	63	0.00
26	Cyclohexane	20.000	18.733	6.3	62	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.085	3.0	60	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	59	0.00
29	1,1-Dichloropropene	20.000	19.965	0.2	62	0.00
30 M	2-Butanone	100.000	96.889	3.1	59	0.00
31	2,2-Dichloropropane	20.000	19.045	4.8	59	0.00
32 M	1,1,1-Trichloroethane	20.000	19.825	0.9	62	0.00
33 M	Carbon Tetrachloride	20.000	19.444	2.8	60	0.00
34 M	Benzene	20.000	19.909	0.5	62	0.00
35	Methacrylonitrile	20.000	20.728	-3.6	65	0.00
36 M	1,2-Dichloroethane	20.000	19.705	1.5	61	0.00
37 M	Trichloroethene	20.000	18.904	5.5	58	0.00
38	Methylcyclohexane	20.000	18.901	5.5	60	0.00
39 M	1,2-Dichloropropane	20.000	19.693	1.5	61	0.00
40	Dibromomethane	20.000	19.875	0.6	62	0.00
41 M	Bromodichloromethane	20.000	19.539	2.3	61	0.00
42 M	Vinyl Acetate	100.000	101.896	-1.9	61	0.00
43	Ethyl Acetate	20.000	17.072	14.6	52	0.00
44	Isopropyl Acetate	20.000	19.518	2.4	61	0.00
45 T	1,4-Dioxane	400.000	392.047	2.0	60	0.00
46	Methyl methacrylate	20.000	19.067	4.7	59	0.00
47	n-amyl Acetate	20.000	17.812	10.9	57	0.00
48 M	t-1,3-Dichloropropene	20.000	19.149	4.3	60	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	19.814	0.9	61	0.00
50 M	1,1,2-Trichloroethane	20.000	19.319	3.4	59	0.00
51	Ethyl methacrylate	20.000	18.768	6.2	59	0.00
52	1,3-Dichloropropane	20.000	19.740	1.3	62	0.00
53 M	Dibromochloromethane	20.000	19.406	3.0	60	0.00
54 M	1,2-Dibromoethane	20.000	19.603	2.0	61	0.00
55 M	2-Chloroethyl vinyl ether	100.000	99.189	0.8	49	0.00
56 M	Bromoform	20.000	18.566	7.2	58	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	58	0.00
58 M	4-Methyl-2-Pentanone	100.000	99.184	0.8	59	0.00
59 M	2-Hexanone	100.000	98.104	1.9	58	0.00
60 S	4-Bromofluorobenzene	30.000	29.786	0.7	58	0.00
61 M	Tetrachloroethene	20.000	19.697	1.5	60	0.00
62 M	Toluene	20.000	20.118	-0.6	61	0.00
63 S	Toluene-d8	30.000	30.752	-2.5	59	0.00
64 M	Chlorobenzene	20.000	19.736	1.3	60	0.00
65	1,1,1,2-Tetrachloroethane	20.000	20.177	-0.9	61	0.00
66 M	Ethyl Benzene	20.000	19.639	1.8	60	0.00
67 M	m/p-Xylenes	40.000	38.563	3.6	59	0.00
68 M	o-Xylene	20.000	20.058	-0.3	61	0.00
69 M	Styrene	20.000	19.187	4.1	59	0.00
70	Isopropylbenzene	20.000	19.260	3.7	59	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	20.449	-2.2	61	0.00
72	1,2,3-Trichloropropane	20.000	19.193	4.0	59	0.00
73	Bromobenzene	20.000	19.245	3.8	59	0.00
74	n-propylbenzene	20.000	18.944	5.3	59	0.00
75	2-Chlorotoluene	20.000	19.514	2.4	60	0.00
76	1,3,5-Trimethylbenzene	20.000	19.025	4.9	58	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.869	5.7	58	0.00
78	4-Chlorotoluene	20.000	18.983	5.1	60	0.00
79	tert-butylbenzene	20.000	19.039	4.8	59	0.00
80	1,2,4-Trimethylbenzene	20.000	18.911	5.4	58	0.00
81	sec-Butylbenzene	20.000	18.880	5.6	57	0.00
82	p-Isopropyltoluene	20.000	18.394	8.0	56	0.00
83 M	1,3-Dichlorobenzene	20.000	18.499	7.5	58	0.00
84 M	1,4-Dichlorobenzene	20.000	18.098	9.5	56	0.00
85	n-Butylbenzene	20.000	17.764	11.2	55	0.00
86 T	Hexachloroethane	20.000	19.231	3.8	59	0.00
87 M	1,2-Dichlorobenzene	20.000	18.791	6.0	57	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	17.808	11.0	53	0.00
89	1,2,4-Trichlorobenzene	20.000	16.646	16.8	48	0.00
90	Hexachlorobutadiene	20.000	14.656	26.7#	44	0.00
91 M	Naphthalene	20.000	16.677	16.6	49	0.00
92	1,2,3-Trichlorobenzene	20.000	16.646	16.8	48	0.00

(#) = Out of Range

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



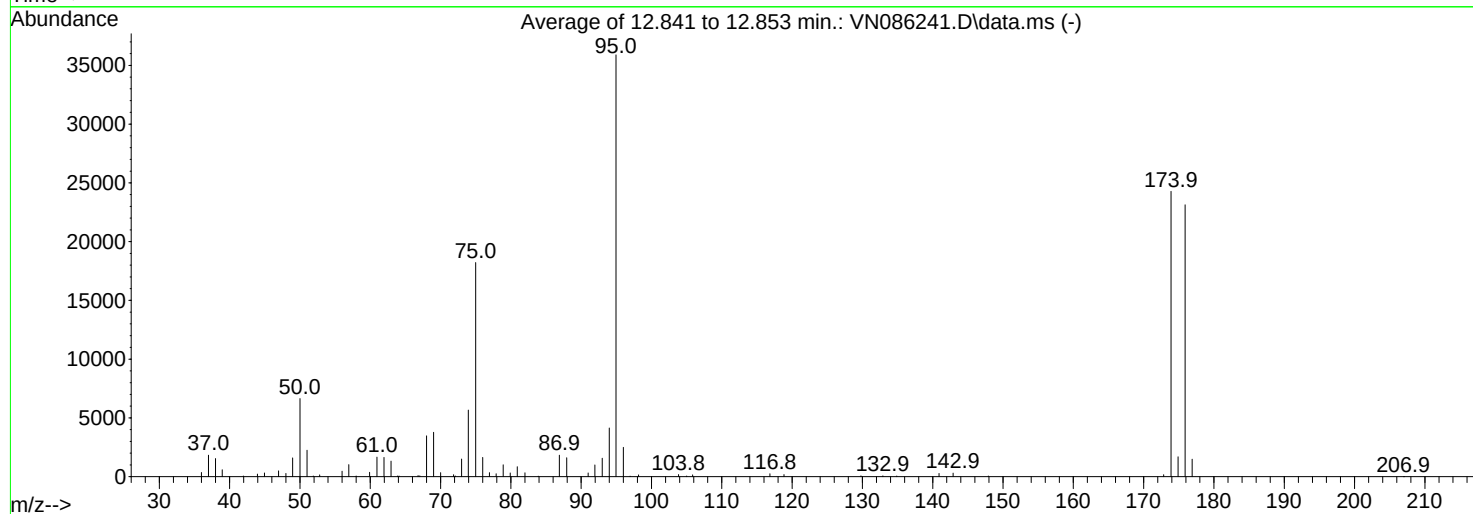
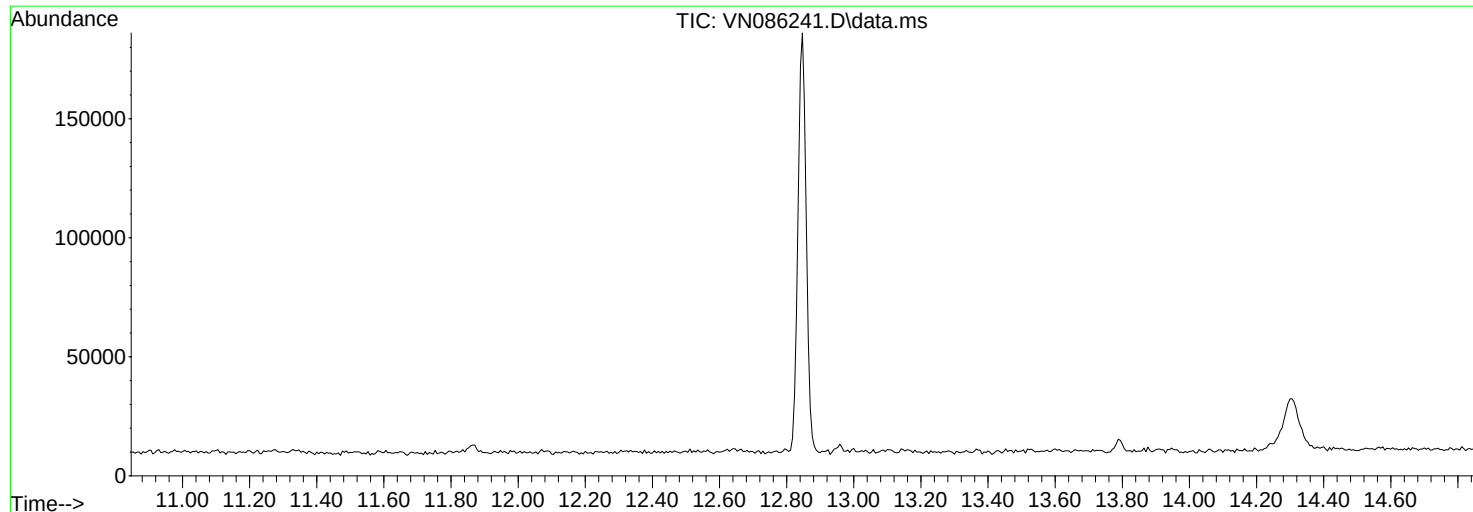
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086241.D
Acq On : 11 Apr 2025 09:52
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\82N031825W.M
Title : SW846 8260
Last Update : Tue Apr 08 14:20:04 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1842

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	6647	PASS
75	95	30	60	50.8	18224	PASS
95	95	100	100	100.0	35896	PASS
96	95	5	9	6.9	2487	PASS
173	174	0.00	2	0.7	164	PASS
174	95	50	100	67.6	24277	PASS
175	174	5	9	7.0	1691	PASS
176	174	95	101	95.3	23128	PASS
177	176	5	9	6.4	1490	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN0411WBL01			SDG No.:	Q1774
Lab Sample ID:	VN0411WBL01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086251.D	1		04/11/25 15:40	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
79-20-9	Methyl Acetate	0.91	U	0.91	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
110-82-7	Cyclohexane	0.92	U	0.92	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
108-87-2	Methylcyclohexane	0.73	U	0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0411WBL01		SDG No.:	Q1774
Lab Sample ID:	VN0411WBL01		Matrix:	Water
Analytical Method:	E624.1		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086251.D	1		04/11/25 15:40	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0411WBL01	SDG No.:	Q1774
Lab Sample ID:	VN0411WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086251.D	1		04/11/25 15:40	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
74-88-4	Methyl Iodide	0.91	U	0.91	5.00	ug/L
80-62-6	Methyl methacrylate	0.71	U	0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.7		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	30.8		91 - 112	103%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.6		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32100	7.812			
540-36-3	1,4-Difluorobenzene	197000	9.1			
3114-55-4	Chlorobenzene-d5	168000	11.865			

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\VN041125\
 Data File : VN086251.D
 Acq On : 11 Apr 2025 15:40
 Operator : JC\MD
 Sample : VN0411WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBL01

Quant Time: Apr 12 01:50:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32111	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	197127	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	168421	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	96086	30.679	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.267%
60) 4-Bromofluorobenzene	12.847	95	96020	28.635	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.467%
63) Toluene-d8	10.565	98	293128	30.829	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.767%

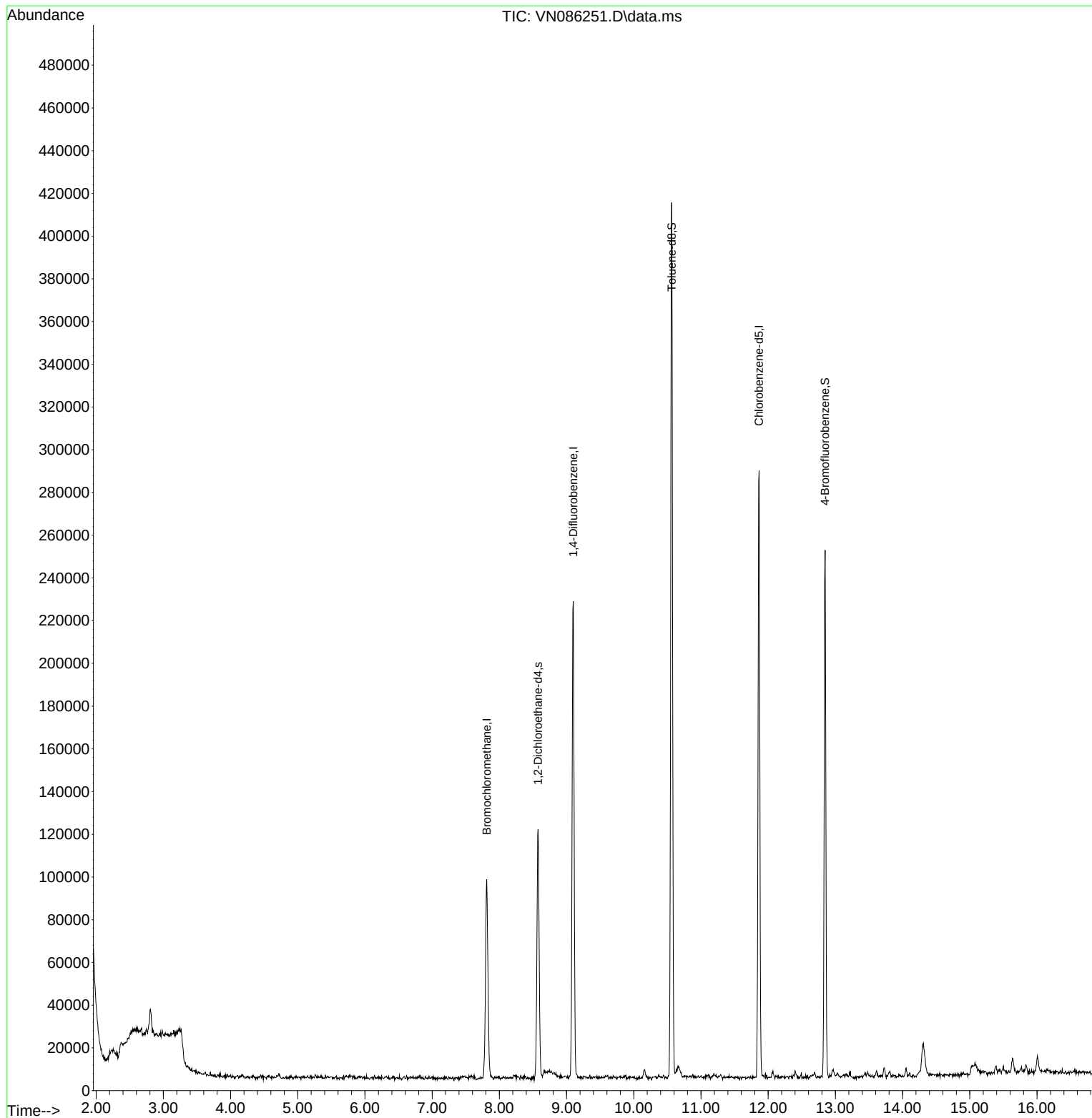
Target Compounds	Qvalue

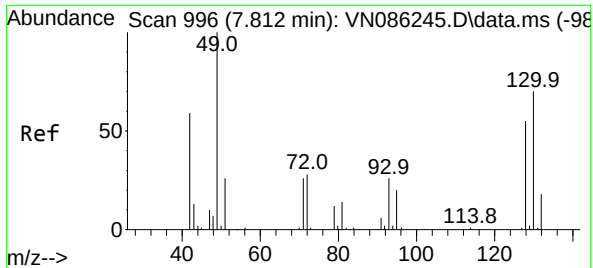
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086251.D
Acq On : 11 Apr 2025 15:40
Operator : JC\MD
Sample : VN0411WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

Quant Time: Apr 12 01:50:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

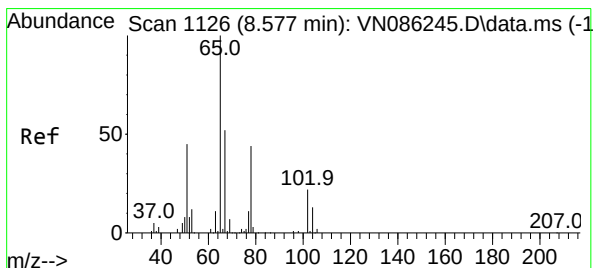
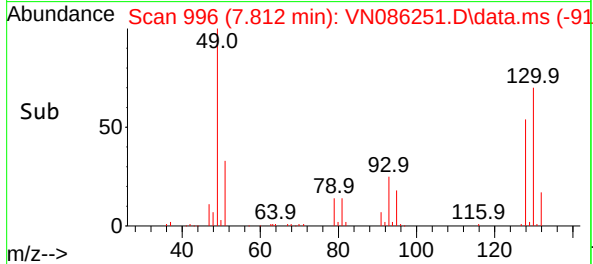
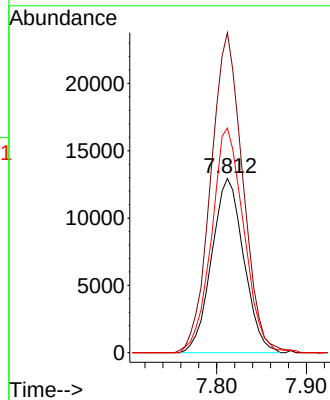
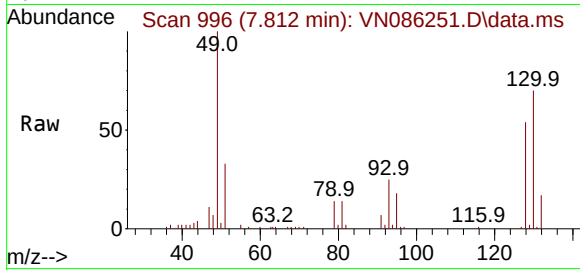




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

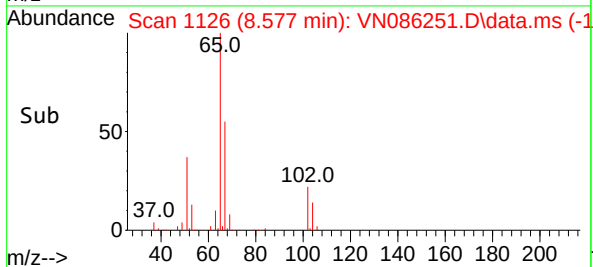
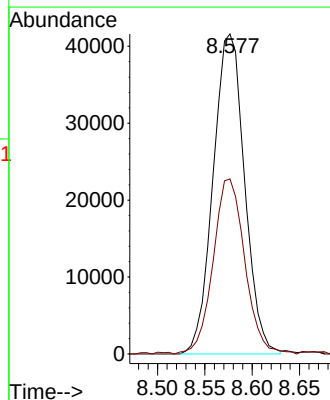
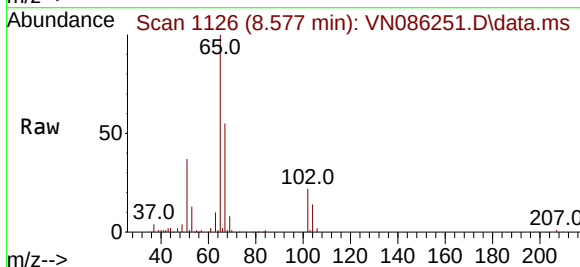
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

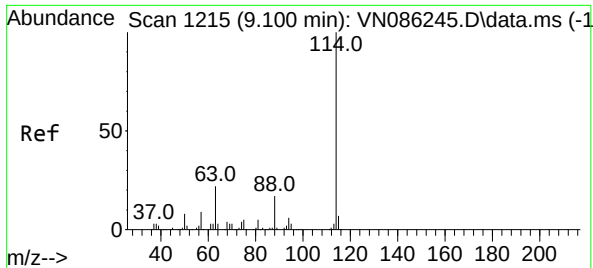
Tgt Ion:128 Resp: 32111
Ion Ratio Lower Upper
128 100
49 183.1 0.0 452.5
130 129.9 0.0 315.0



#27
1,2-Dichloroethane-d4
Concen: 30.679 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 65 Resp: 96086
Ion Ratio Lower Upper
65 100
67 55.0 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBL01

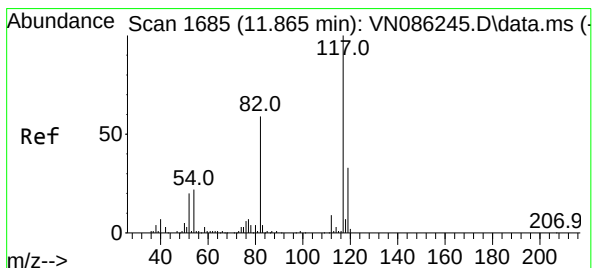
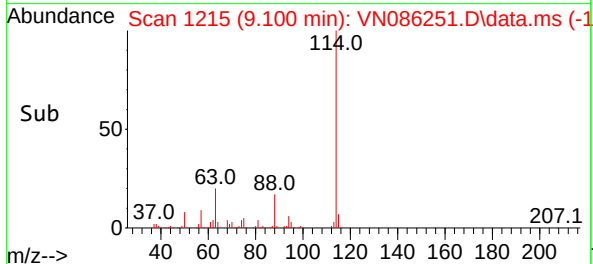
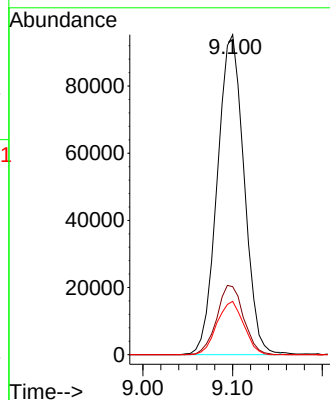
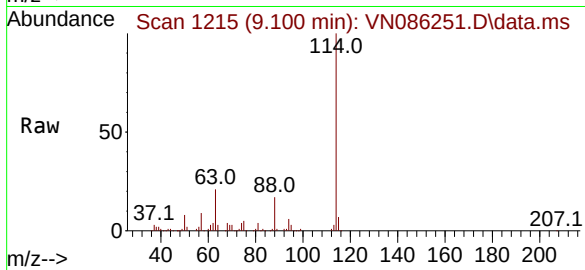
Tgt Ion:114 Resp: 197127

Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.6 13.4 20.2



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

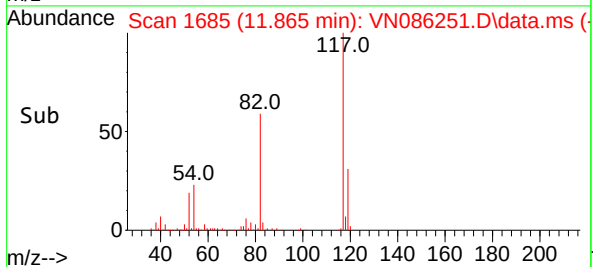
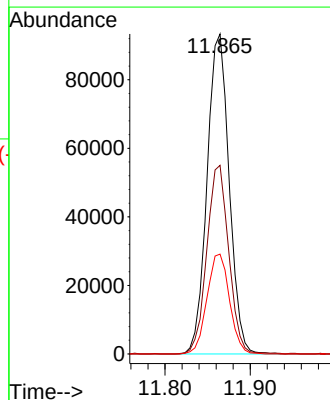
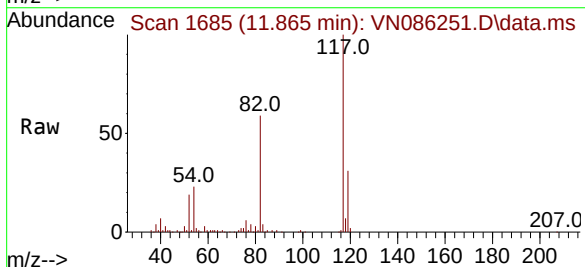
Tgt Ion:117 Resp: 168421

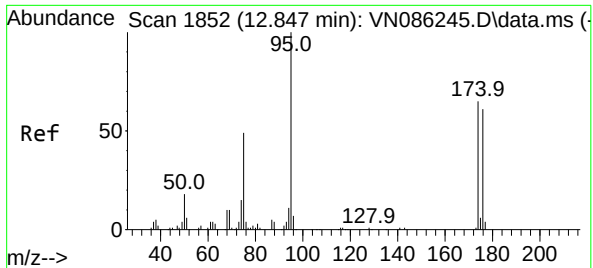
Ion Ratio Lower Upper

117 100

82 58.6 47.3 70.9

119 31.9 25.9 38.9

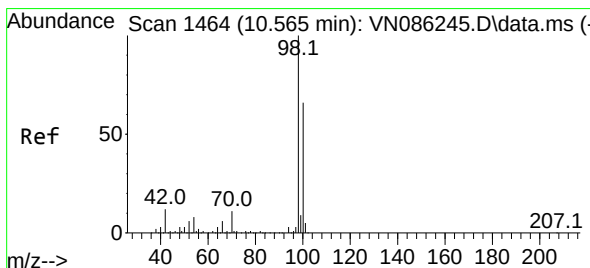
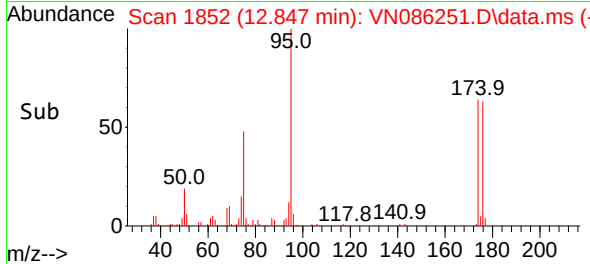
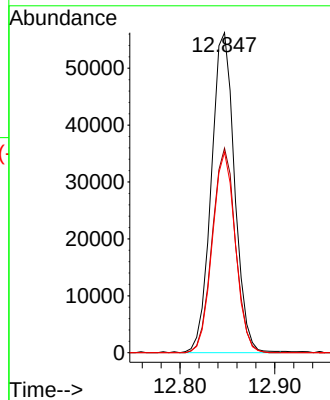
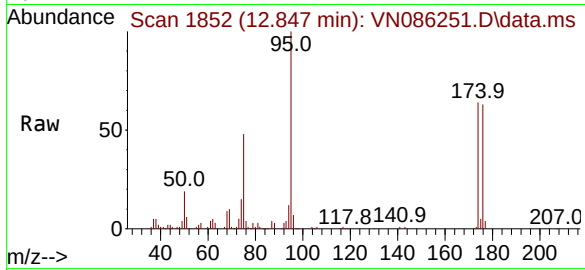




#60
4-Bromofluorobenzene
Concen: 28.635 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

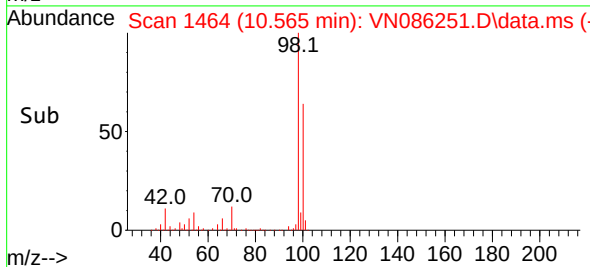
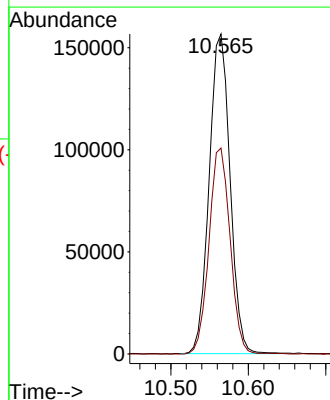
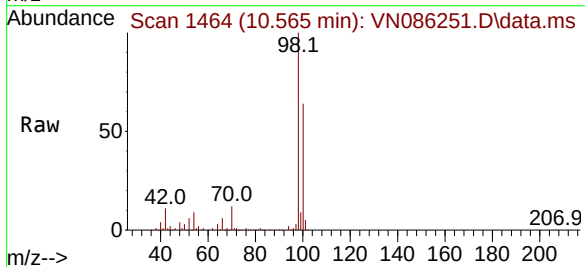
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

Tgt Ion: 95 Resp: 96020
Ion Ratio Lower Upper
95 100
174 63.7 52.7 79.1
176 61.7 49.8 74.8



#63
Toluene-d8
Concen: 30.829 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 98 Resp: 293128
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5



Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN0411WBS01			SDG No.:	Q1774
Lab Sample ID:	VN0411WBS01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086249.D	1		04/11/25 14:38	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	22.7		0.77	5.00	ug/L
74-87-3	Chloromethane	21.6		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	21.5		0.83	5.00	ug/L
74-83-9	Bromomethane	20.4		0.80	5.00	ug/L
75-00-3	Chloroethane	21.1		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	21.5		0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	21.4		0.76	5.00	ug/L
107-02-8	Acrolein	78.0		6.60	25.0	ug/L
107-13-1	Acrylonitrile	99.6		2.80	25.0	ug/L
67-64-1	Acetone	95.5		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	21.8		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	21.2		0.77	5.00	ug/L
79-20-9	Methyl Acetate	20.1		0.91	5.00	ug/L
75-09-2	Methylene Chloride	21.2		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.9		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	21.7		0.68	5.00	ug/L
110-82-7	Cyclohexane	21.6		0.92	5.00	ug/L
78-93-3	2-Butanone	96.8		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.9		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	21.1		0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.4		0.80	5.00	ug/L
67-66-3	Chloroform	21.7		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.7		0.63	5.00	ug/L
108-87-2	Methylcyclohexane	20.9		0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	20.8		0.63	5.00	ug/L
71-43-2	Benzene	21.0		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.9		0.50	5.00	ug/L
79-01-6	Trichloroethene	20.2		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0411WBS01	SDG No.:	Q1774
Lab Sample ID:	VN0411WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086249.D	1		04/11/25 14:38	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	20.0		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		3.00	25.0	ug/L
108-88-3	Toluene	21.4		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.5		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.9		0.44	5.00	ug/L
591-78-6	2-Hexanone	100		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	20.4		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.0		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.6		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	21.3		0.62	5.00	ug/L
67-72-1	Hexachloroethane	20.4		0.98	5.00	ug/L
100-41-4	Ethyl Benzene	21.0		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	41.7		1.30	10.0	ug/L
95-47-6	o-Xylene	21.1		0.67	5.00	ug/L
100-42-5	Styrene	20.9		0.72	5.00	ug/L
75-25-2	Bromoform	19.9		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	21.2		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	20.3		0.62	5.00	ug/L
108-86-1	Bromobenzene	20.6		0.59	5.00	ug/L
103-65-1	n-propylbenzene	21.2		0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	21.0		0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	21.4		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	20.6		0.62	5.00	ug/L
98-06-6	tert-butylbenzene	20.7		0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.8		0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	21.4		0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN0411WBS01			SDG No.:	Q1774
Lab Sample ID:	VN0411WBS01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086249.D	1		04/11/25 14:38	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	21.3		0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.4		0.81	5.00	ug/L
104-51-8	n-Butylbenzene	21.8		0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	19.2		0.68	5.00	ug/L
91-20-3	Naphthalene	18.4		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		1.10	5.00	ug/L
74-88-4	Methyl Iodide	21.2		0.91	5.00	ug/L
80-62-6	Methyl methacrylate	20.2		0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.5		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	30.3		91 - 112	101%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.8		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32100	7.812			
540-36-3	1,4-Difluorobenzene	201000	9.1			
3114-55-4	Chlorobenzene-d5	176000	11.865			

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\VN041125\
 Data File : VN086249.D
 Acq On : 11 Apr 2025 14:38
 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32103	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	201467	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	175632	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	95625	30.539	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.800%			
60) 4-Bromofluorobenzene	12.847	95	104335	29.838	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.467%			
63) Toluene-d8	10.565	98	300690	30.325	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	58287	22.661	ug/l	99
3) Chloromethane	2.359	50	76833	21.612	ug/l	99
4) Vinyl Chloride	2.518	62	72960	21.546	ug/l	100
5) Bromomethane	2.965	94	34468	20.406	ug/l	92
6) Chloroethane	3.124	64	45142	21.111	ug/l	99
7) Trichlorofluoromethane	3.501	101	78964	21.497	ug/l	98
8) Diethyl Ether	3.959	74	35948	21.221	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	49466	21.838	ug/l	99
10) 1,1-Dichloroethene	4.342	96	52323	21.404	ug/l	97
11) Methyl Iodide	4.589	142	59569	21.202	ug/l	99
12) Methyl Acetate	5.024	43	69220	20.052	ug/l	98
13) Acrolein	4.177	56	30590	77.958	ug/l	99
14) Acrylonitrile	5.712	53	145157	99.606	ug/l	98
15) Acetone	4.424	58	35289	95.503	ug/l	93
16) Carbon Disulfide	4.712	76	153034	21.832	ug/l	99
17) Allyl chloride	5.024	41	91394	21.451	ug/l	98
18) Methylene Chloride	5.277	84	59182	21.234	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	53765	20.881	ug/l	99
20) Diisopropyl ether	6.665	45	200652	21.906	ug/l	98
21) 1,1-Dichloroethane	6.565	63	106184	21.728	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	65736	21.431	ug/l	98
23) tert-Butyl Alcohol	5.506	59	57260	94.827	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	187291	21.230	ug/l	99
25) Chloroform	7.965	83	101051	21.684	ug/l	98
26) Cyclohexane	8.253	56	98792	21.608	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	75242	20.848	ug/l	98
30) 2-Butanone	7.477	43	193486	96.751	ug/l	99
31) 2,2-Dichloropropane	7.488	77	93697	21.091	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	85736	20.651	ug/l	99
33) Carbon Tetrachloride	8.359	117	69324	20.895	ug/l	97
34) Benzene	8.600	78	240800	20.972	ug/l	95
35) Methacrylonitrile	7.777	41	44549	19.760	ug/l	96
36) 1,2-Dichloroethane	8.665	62	75064	20.892	ug/l	99
37) Trichloroethene	9.347	130	55823	20.150	ug/l	92
38) Methylcyclohexane	9.594	83	92449	20.887	ug/l	99
39) 1,2-Dichloropropane	9.618	63	59643	20.876	ug/l	97
40) Dibromomethane	9.706	93	36945	20.021	ug/l	99
41) Bromodichloromethane	9.882	83	81655	20.598	ug/l	99
42) Vinyl Acetate	6.594	43	723573	106.292	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086249.D
 Acq On : 11 Apr 2025 14:38
 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	77965	19.328	ug/l	98
44) Isopropyl Acetate	8.683	43	150010	20.046	ug/l	99
45) 1,4-Dioxane	9.688	88	21831	366.878	ug/l #	93
46) Methyl methacrylate	9.677	41	66579	20.193	ug/l	99
47) n-amyl Acetate	12.488	43	118327	19.943	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	92056	20.541	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	98100	20.682	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	52750	20.382	ug/l	98
51) Ethyl methacrylate	10.871	69	97258	20.222	ug/l	98
52) 1,3-Dichloropropane	11.159	76	96585	20.938	ug/l	100
53) Dibromochloromethane	11.353	129	57663	20.369	ug/l	98
54) 1,2-Dibromoethane	11.465	107	52283	20.012	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	182299	100.309	ug/l	100
56) Bromoform	12.576	173	36790	19.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	405618	101.770	ug/l	100
59) 2-Hexanone	11.194	43	298673	100.637	ug/l	100
61) Tetrachloroethene	11.100	164	54335	20.949	ug/l	98
62) Toluene	10.624	91	251566	21.355	ug/l	100
64) Chlorobenzene	11.888	112	148243	20.597	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	50696	21.344	ug/l	100
66) Ethyl Benzene	11.959	91	273823	20.960	ug/l	98
67) m/p-Xylenes	12.065	106	202596	41.705	ug/l	98
68) o-Xylene	12.394	106	100957	21.129	ug/l	99
69) Styrene	12.406	104	168655	20.929	ug/l	99
70) Isopropylbenzene	12.694	105	249762	21.200	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	69753	20.801	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	70785m	20.279	ug/l	
73) Bromobenzene	12.976	156	53692	20.572	ug/l	98
74) n-propylbenzene	13.029	91	295354	21.231	ug/l	99
75) 2-Chlorotoluene	13.123	91	183287	20.961	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	206643	21.352	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	31266	19.426	ug/l	94
78) 4-Chlorotoluene	13.218	91	179801	20.589	ug/l	99
79) tert-butylbenzene	13.435	119	173459	20.714	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	203945	20.782	ug/l	99
81) sec-Butylbenzene	13.612	105	249442	21.354	ug/l	99
82) p-Isopropyltoluene	13.723	119	207519	21.296	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	98830	20.374	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	99189	20.383	ug/l	99
85) n-Butylbenzene	14.053	91	191298	21.761	ug/l	99
86) Hexachloroethane	14.329	117	33590	20.435	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	95565	19.953	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.712	75	14160	18.539	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	45993	19.736	ug/l	99
90) Hexachlorobutadiene	15.494	225	19273	19.154	ug/l	96
91) Naphthalene	15.635	128	169515	18.449	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	45993	19.736	ug/l	99

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

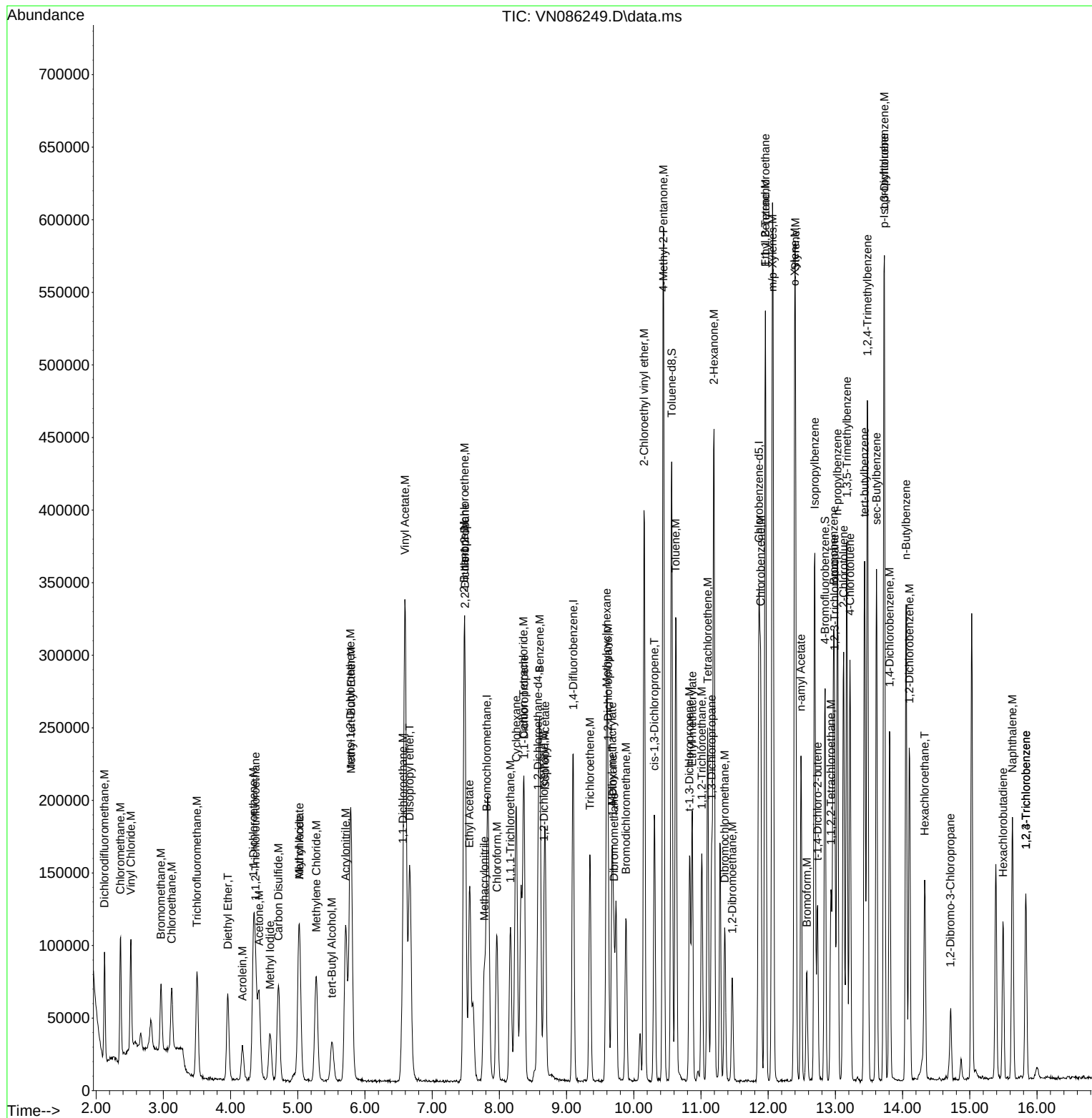
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 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

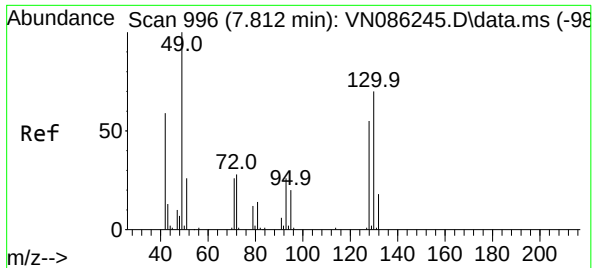
Instrument :
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 ClientSampleId :
 VN0411WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration





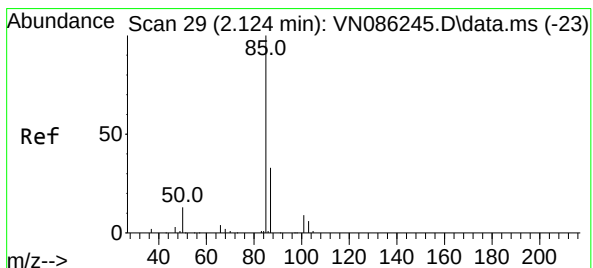
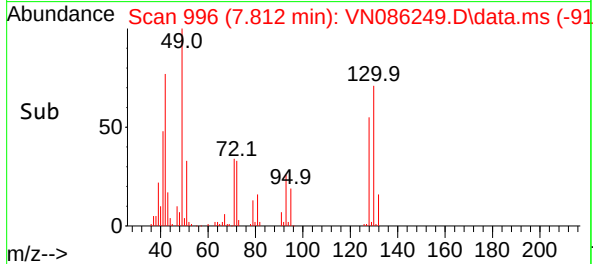
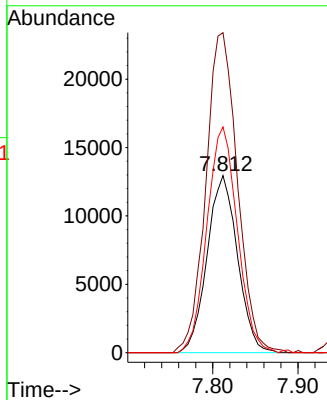
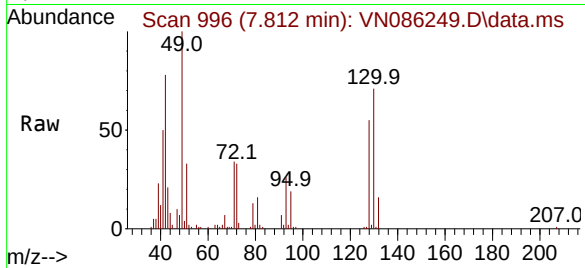
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Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion	Ratio	Lower	Upper
128	100		
49	187.6	0.0	452.5
130	127.9	0.0	315.0

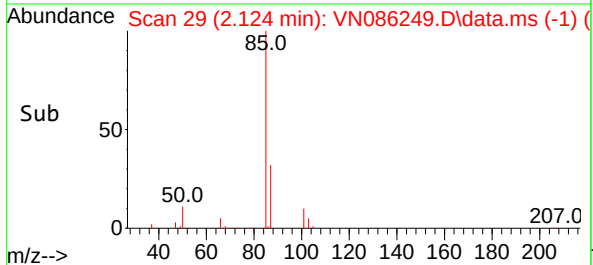
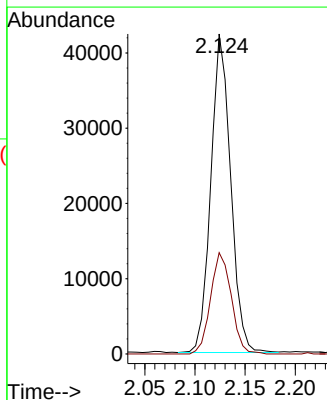
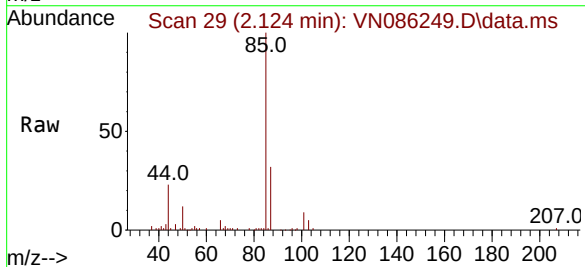
Manual Integrations
APPROVED

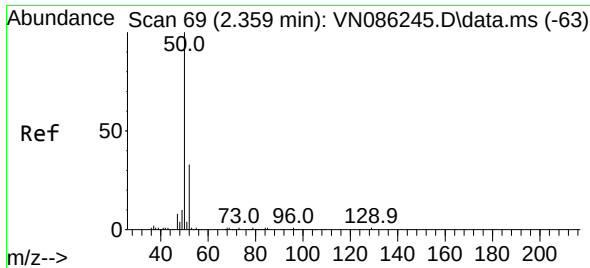
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 22.661 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.3	48.9





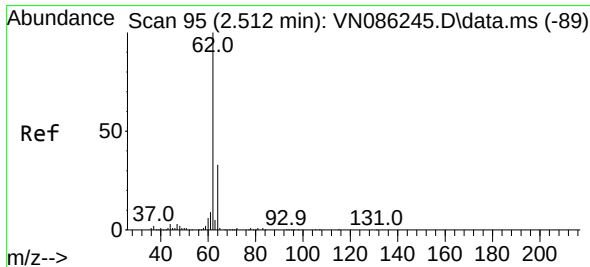
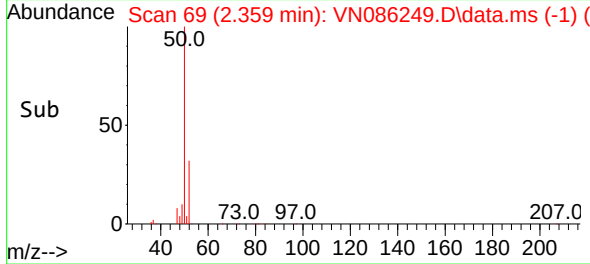
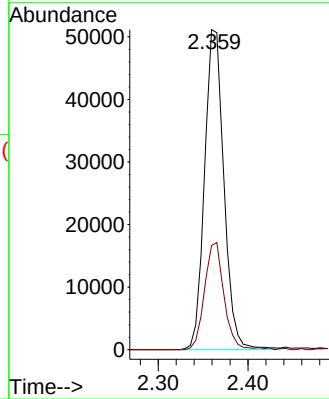
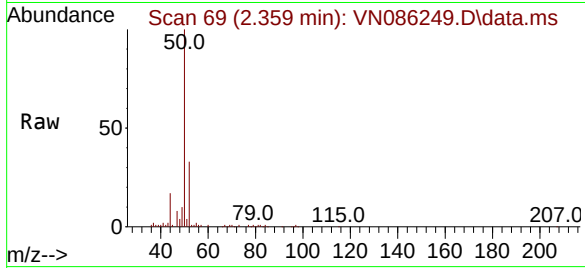
#3
Chloromethane
Concen: 21.612 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion: 50 Resp: 7683
Ion Ratio Lower Upper
50 100
52 32.5 26.4 39.6

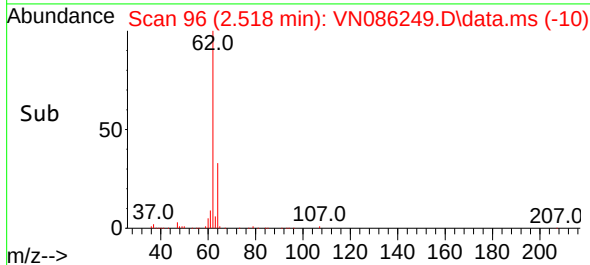
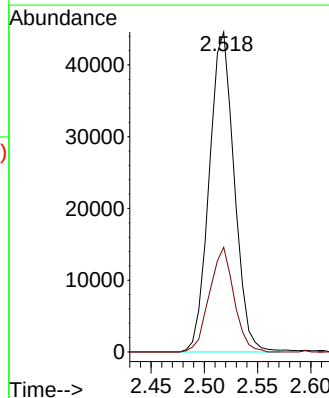
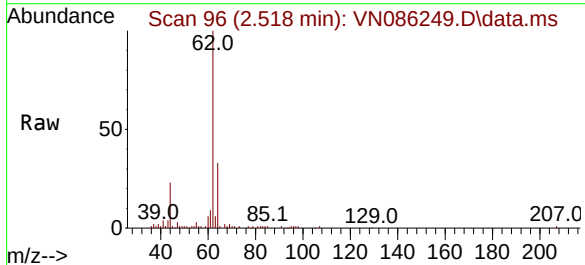
Manual Integrations
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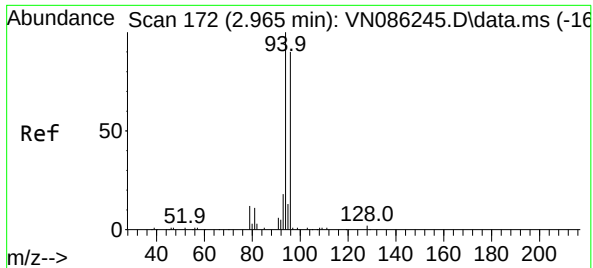
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 21.546 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 62 Resp: 72960
Ion Ratio Lower Upper
62 100
64 32.7 26.3 39.5





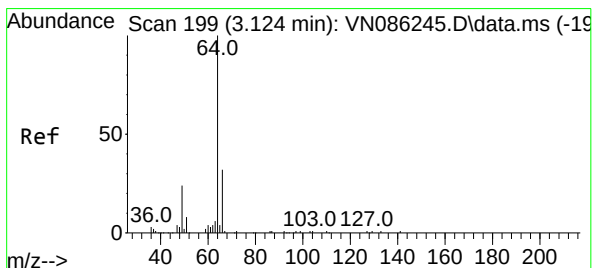
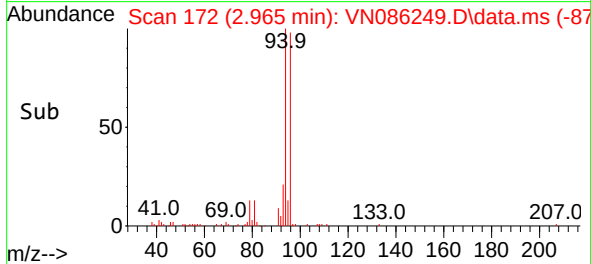
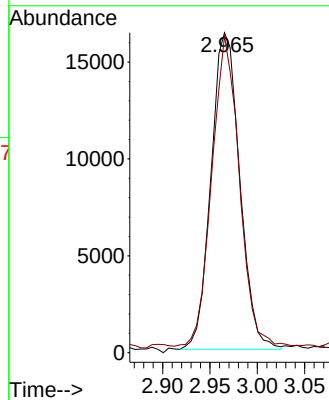
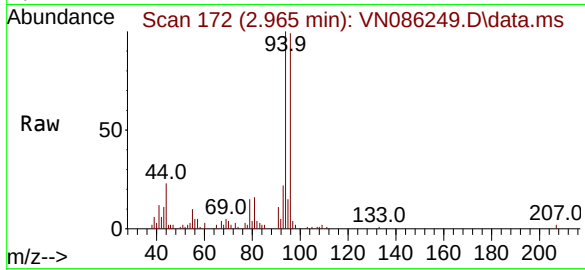
#5
Bromomethane
Concen: 20.406 ug/l
RT: 2.965 min Scan# 172
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion: 94 Resp: 3446
Ion Ratio Lower Upper
94 100
96 97.5 72.2 108.2

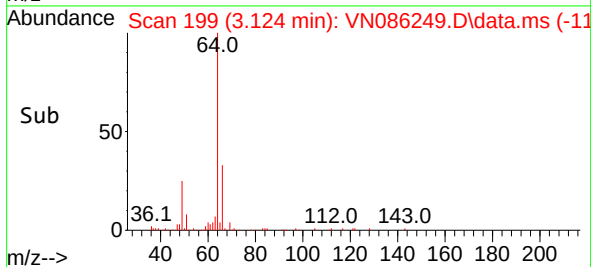
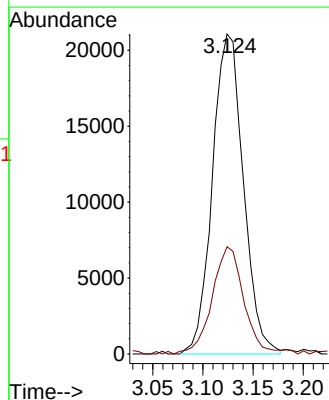
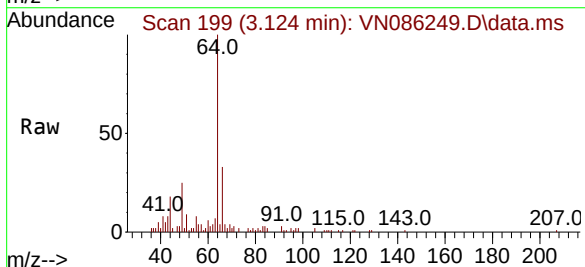
Manual Integrations
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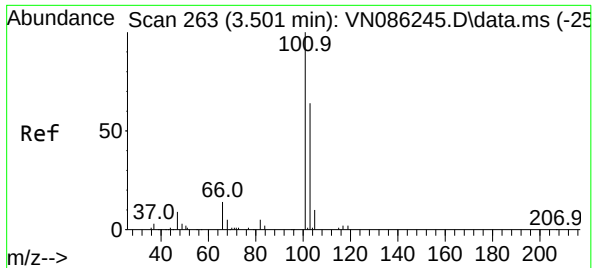
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#6
Chloroethane
Concen: 21.111 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

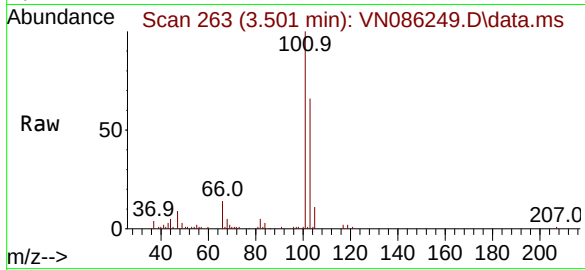
Tgt Ion: 64 Resp: 45142
Ion Ratio Lower Upper
64 100
66 32.7 25.7 38.5





#7
Trichlorofluoromethane
Concen: 21.497 ug/l
RT: 3.501 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

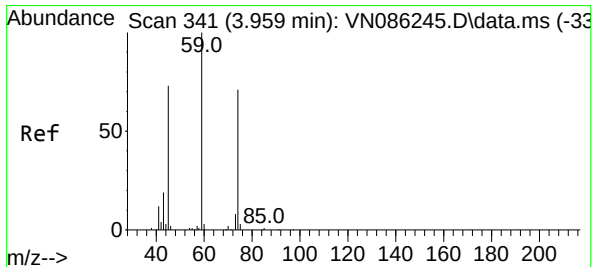
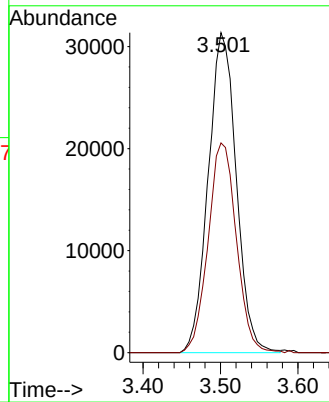
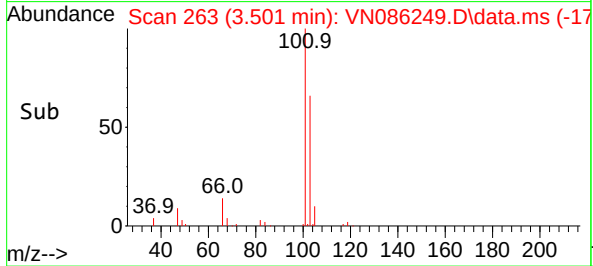
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:101 Resp: 78964
Ion Ratio Lower Upper
101 100
103 65.5 51.2 76.8

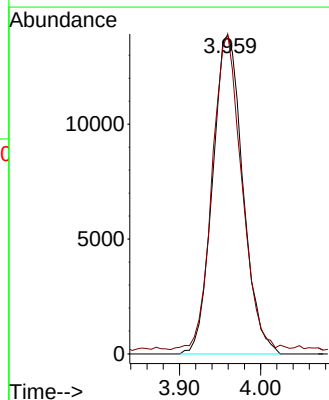
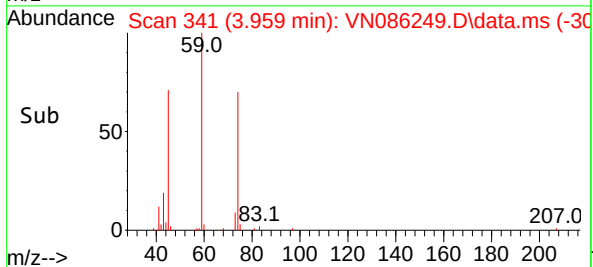
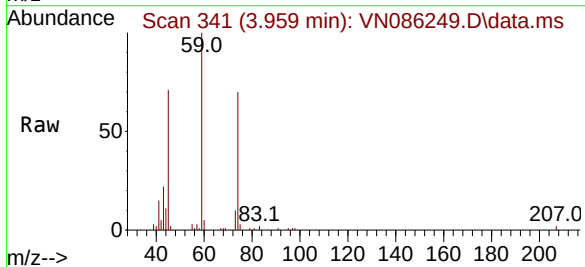
Manual Integrations
APPROVED

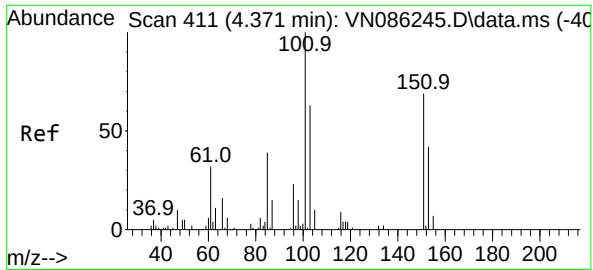
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 21.221 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 74 Resp: 35948
Ion Ratio Lower Upper
74 100
45 95.7 19.2 173.2





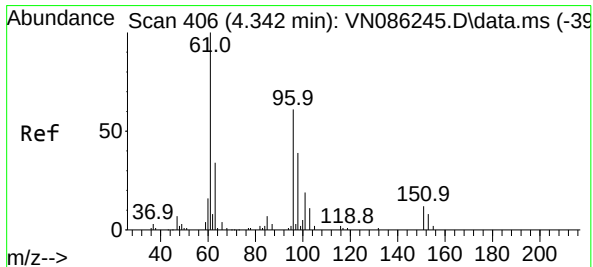
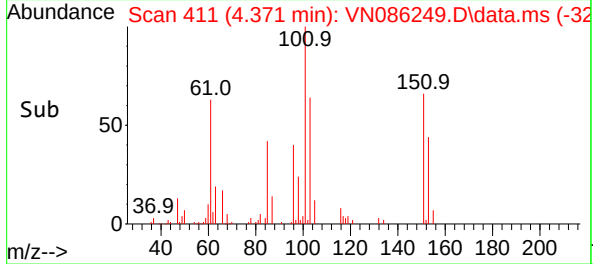
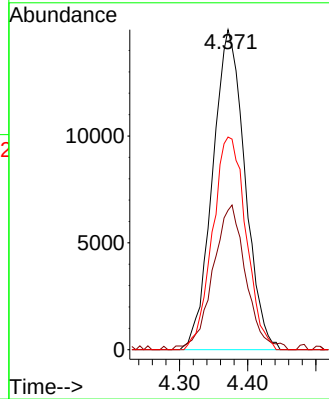
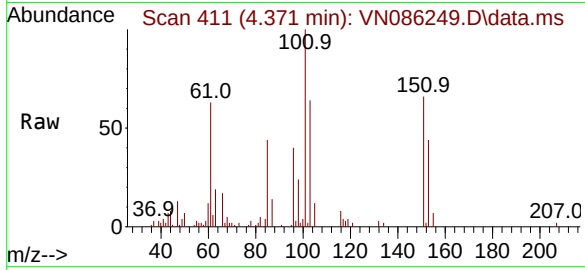
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.838 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion:101 Resp: 4946
Ion Ratio Lower Upper
101 100
85 45.1 0.0 93.0
151 68.6 0.0 138.6

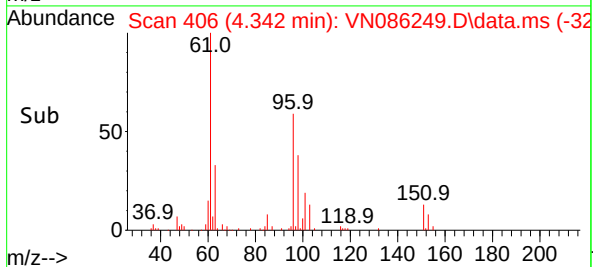
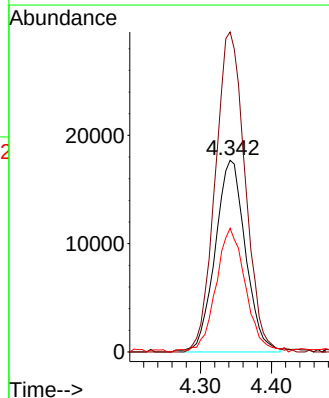
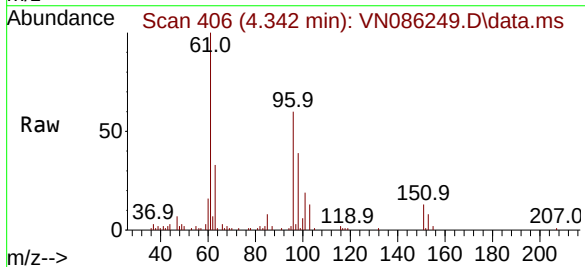
Manual Integrations
APPROVED

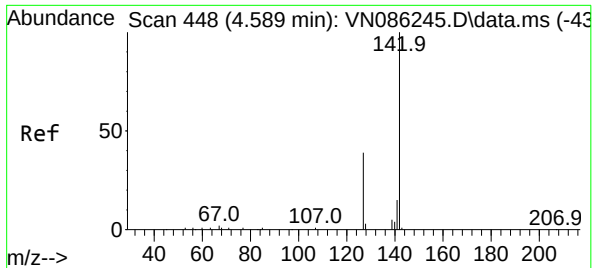
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 21.404 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

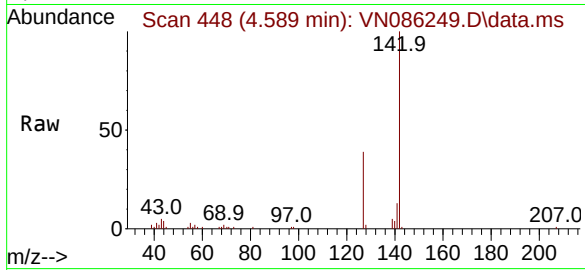
Tgt Ion: 96 Resp: 52323
Ion Ratio Lower Upper
96 100
61 168.3 131.1 196.7
98 63.8 51.6 77.4





#11
Methyl Iodide
Concen: 21.202 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

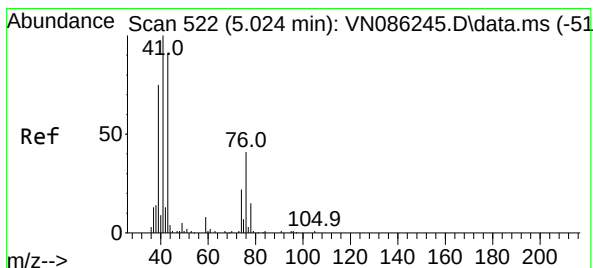
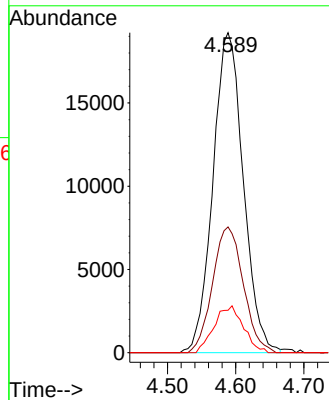
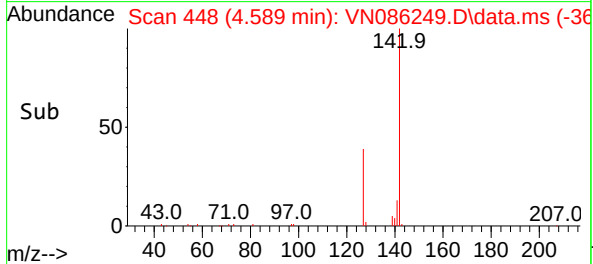
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:142 Resp: 59569
Ion Ratio Lower Upper
142 100
127 39.5 19.6 58.8
141 13.3 7.3 21.9

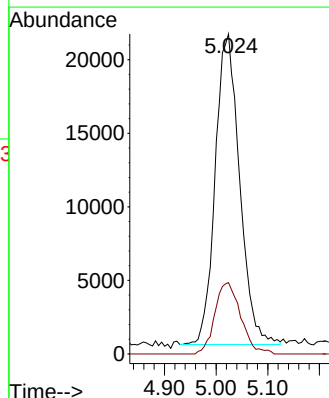
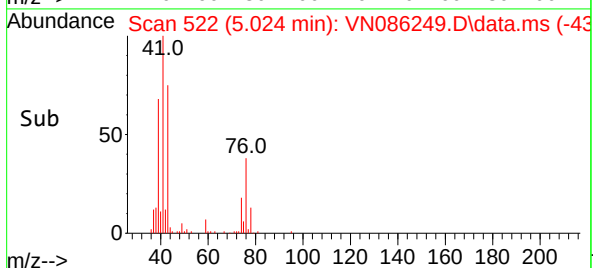
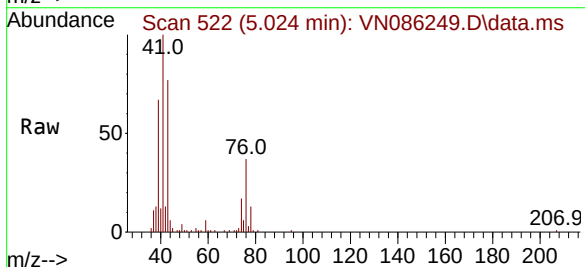
Manual Integrations
APPROVED

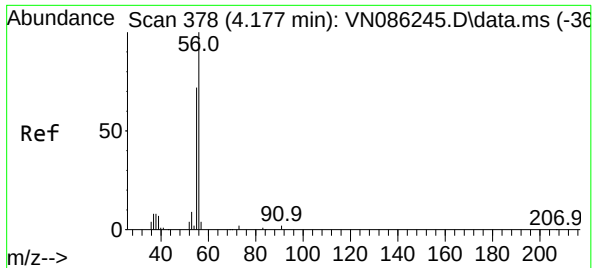
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#12
Methyl Acetate
Concen: 20.052 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 43 Resp: 69220
Ion Ratio Lower Upper
43 100
74 23.1 19.1 28.7





#13

Acrolein

Concen: 77.958 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 56 Resp: 30590

Ion Ratio Lower Upper

56 100

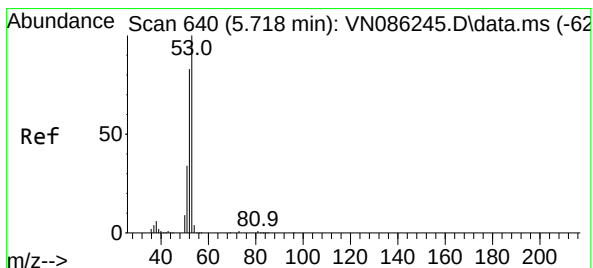
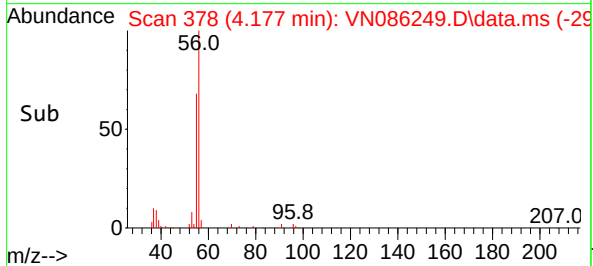
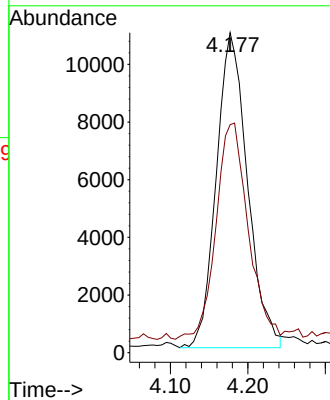
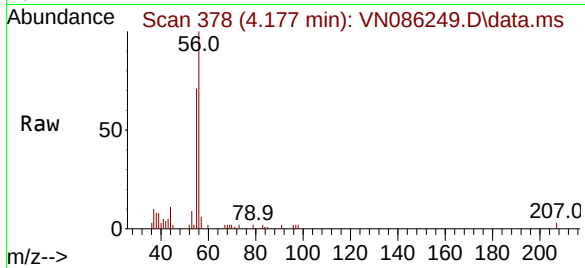
55 70.1 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 99.606 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

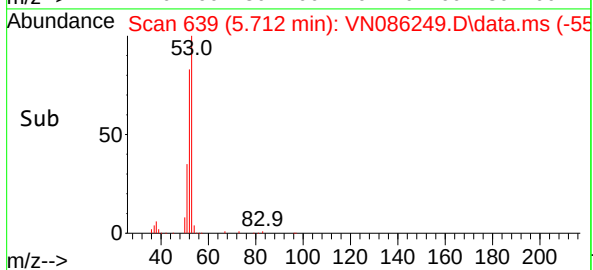
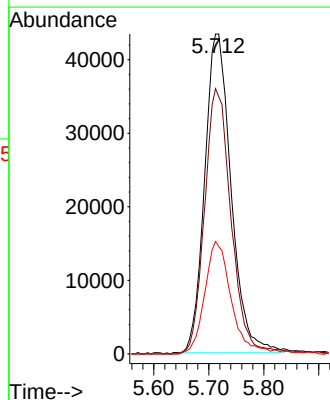
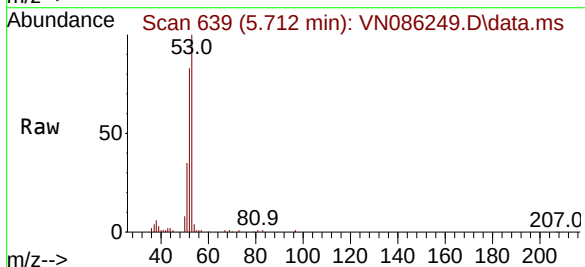
Tgt Ion: 53 Resp: 145157

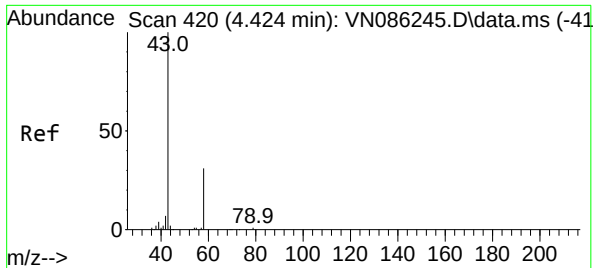
Ion Ratio Lower Upper

53 100

52 83.4 40.2 120.6

51 35.0 17.5 52.6





#15

Acetone

Concen: 95.503 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 58 Resp: 35289

Ion Ratio Lower Upper

58 100

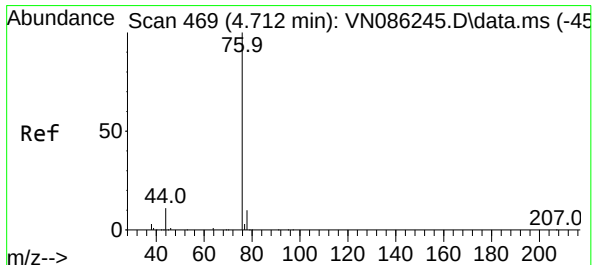
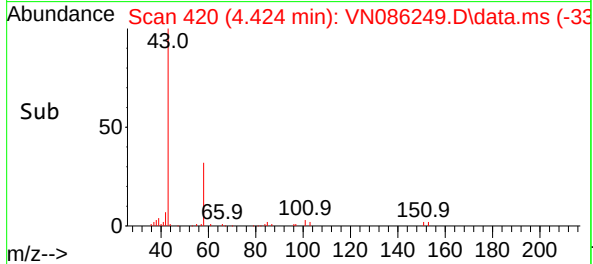
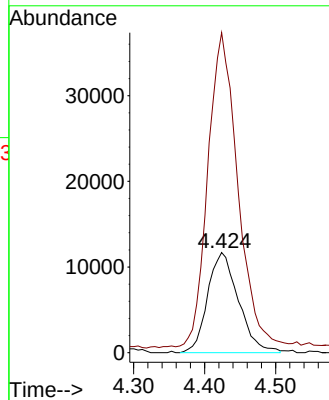
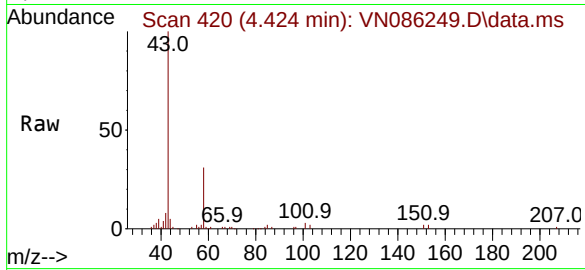
43 313.0 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 21.832 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086249.D

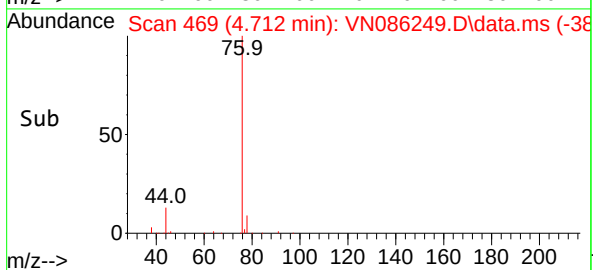
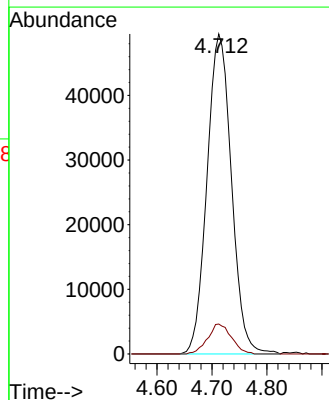
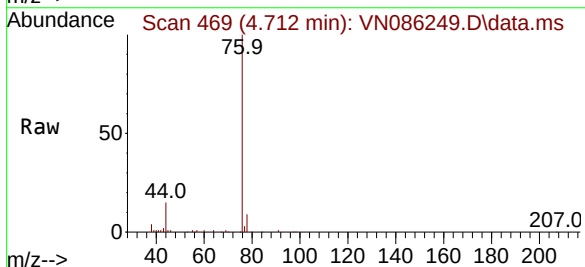
Acq: 11 Apr 2025 14:38

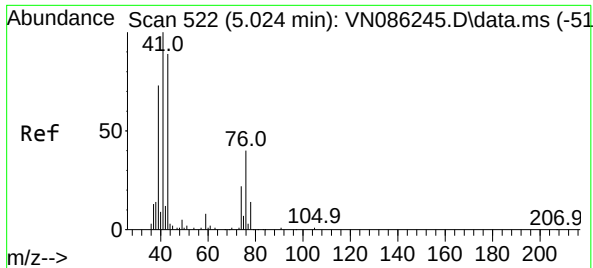
Tgt Ion: 76 Resp: 153034

Ion Ratio Lower Upper

76 100

78 9.4 7.7 11.5





#17

Allyl chloride

Concen: 21.451 ug/l

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

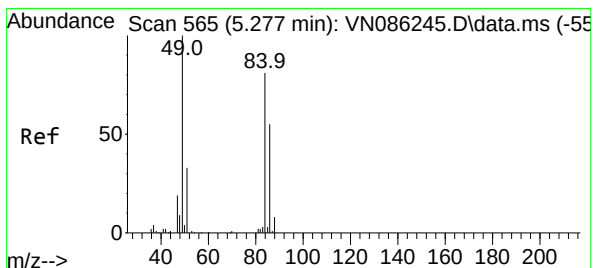
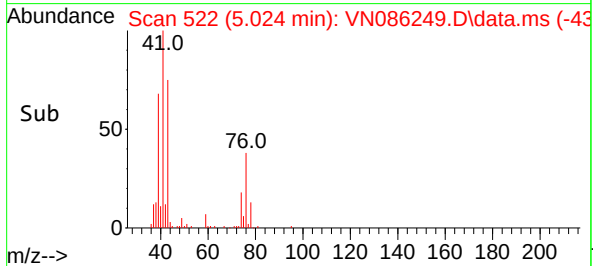
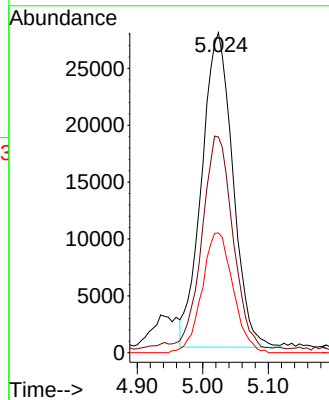
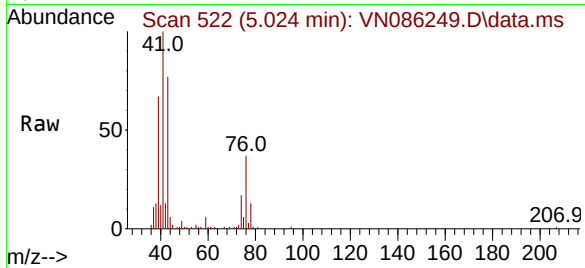
Tgt Ion:	41	Resp:	91394
Ion	Ratio	Lower	Upper
41	100		
39	67.2	34.4	103.2
76	38.3	18.8	56.3

Manual Integrations

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Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 21.234 ug/l

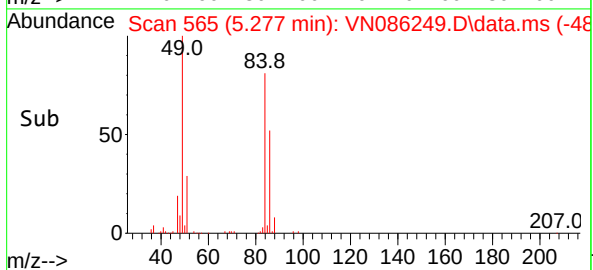
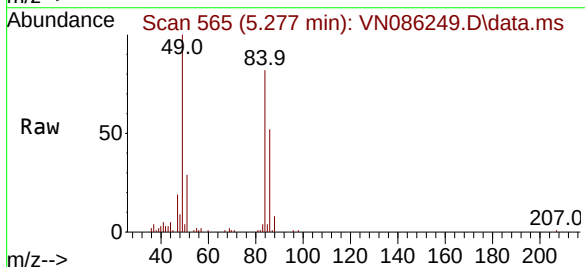
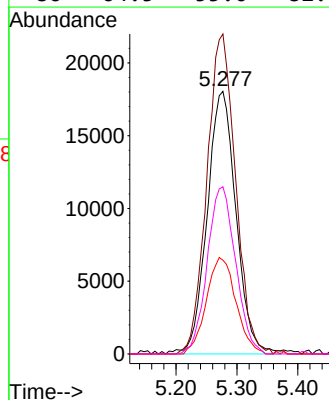
RT: 5.277 min Scan# 565

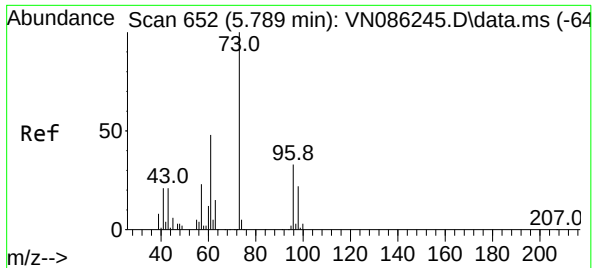
Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Tgt Ion:	84	Resp:	59182
Ion	Ratio	Lower	Upper
84	100		
49	122.3	99.1	148.7
51	36.1	32.3	48.5
86	64.5	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 20.881 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 96 Resp: 5376

Ion Ratio Lower Upper

96 100

61 143.6 115.9 173.9

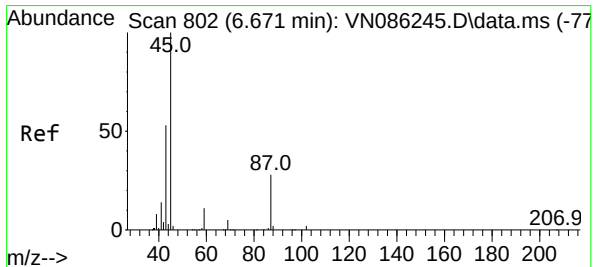
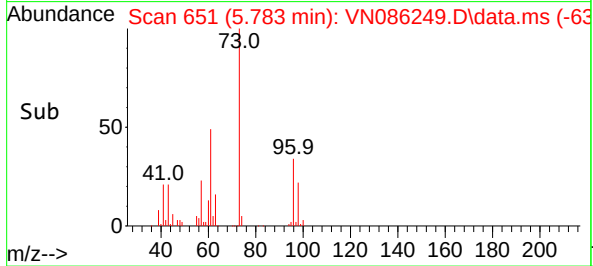
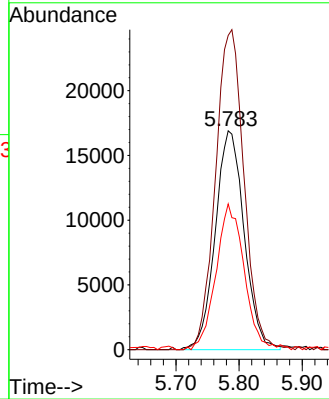
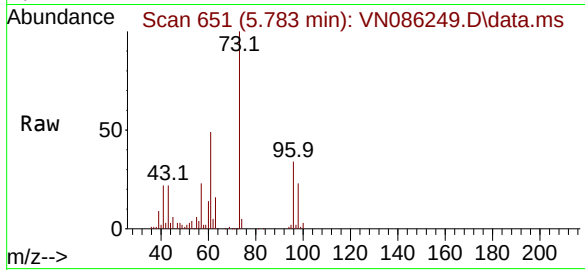
98 66.6 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 21.906 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Tgt Ion: 45 Resp: 200652

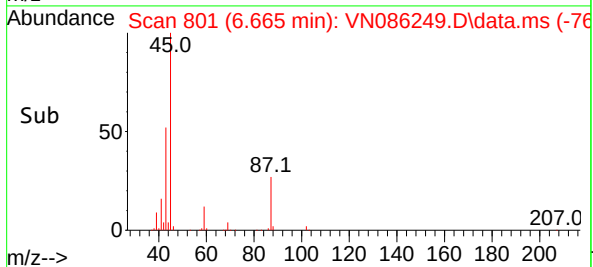
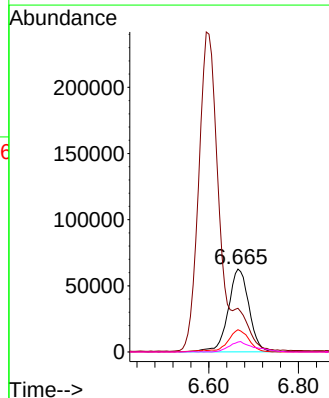
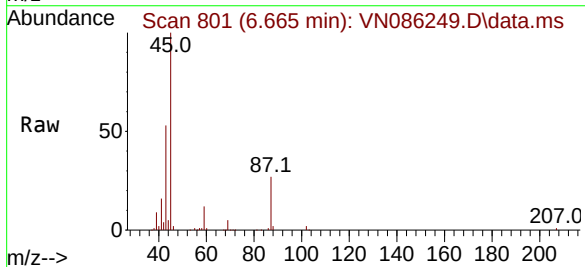
Ion Ratio Lower Upper

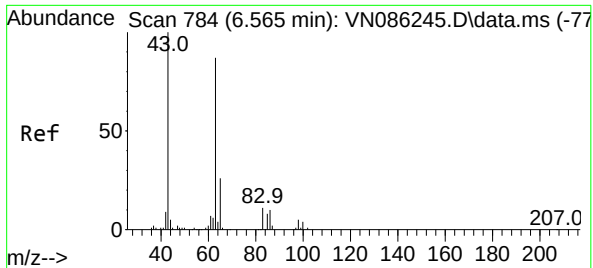
45 100

43 51.0 42.3 63.5

87 27.0 22.2 33.4

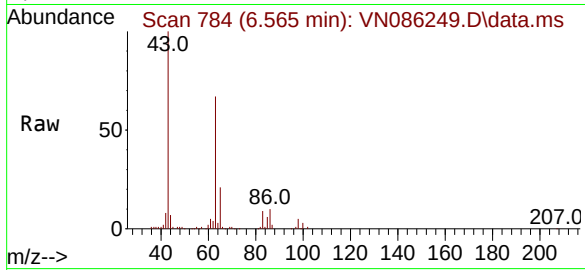
59 12.0 9.1 13.7





#21
1,1-Dichloroethane
Concen: 21.728 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

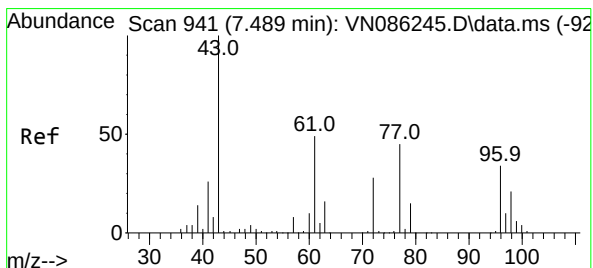
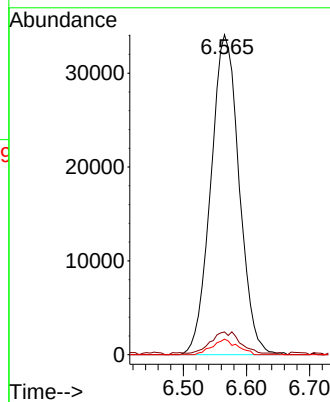
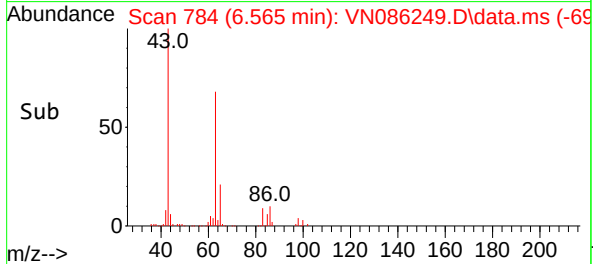
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 63 Resp: 106184
Ion Ratio Lower Upper
63 100
98 6.5 3.1 9.3
100 4.9 2.3 6.9

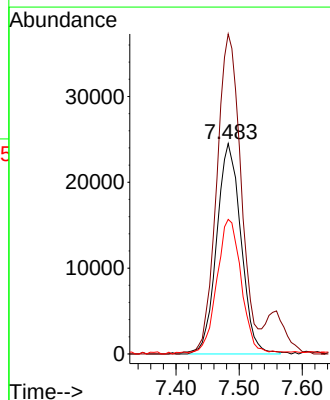
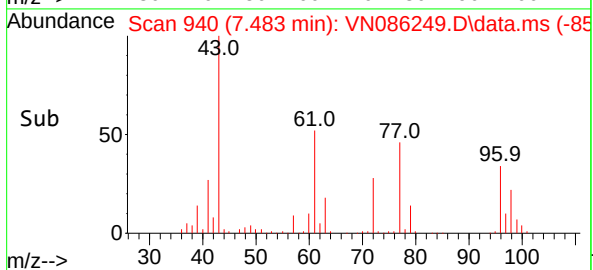
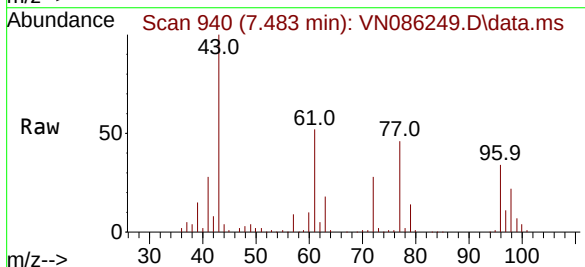
Manual Integrations
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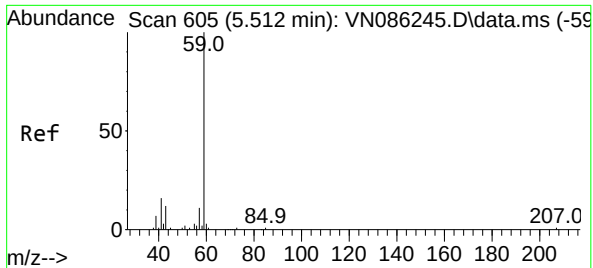
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 21.431 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 96 Resp: 65736
Ion Ratio Lower Upper
96 100
61 152.3 119.5 179.3
98 64.7 51.0 76.6





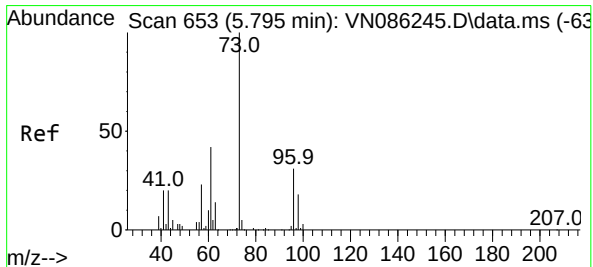
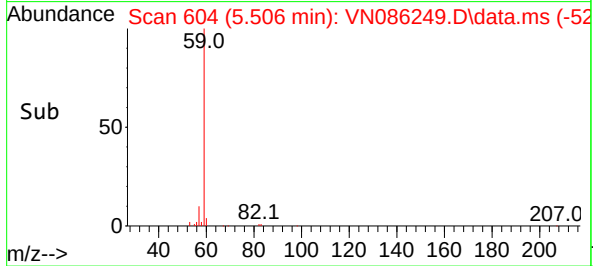
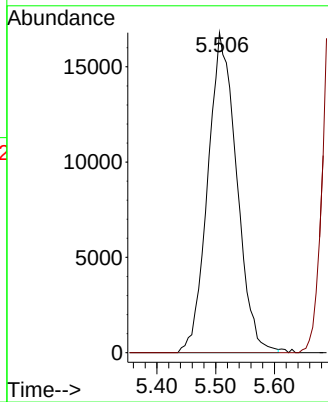
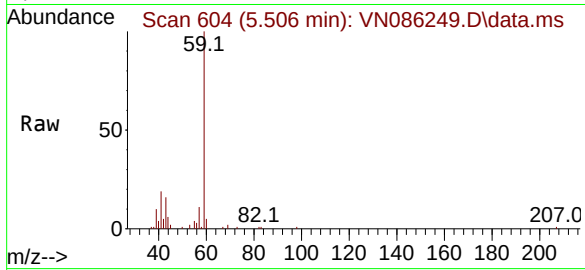
#23
tert-Butyl Alcohol
Concen: 94.827 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion: 59 Resp: 57260
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

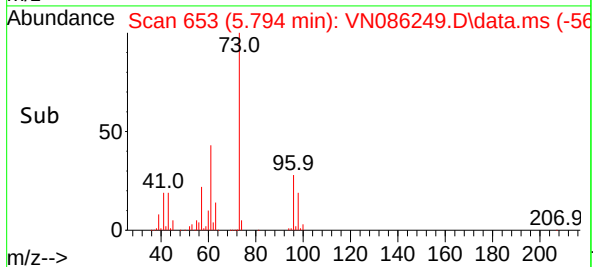
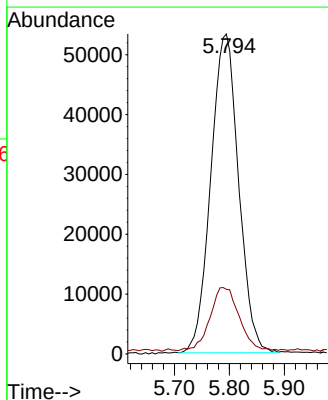
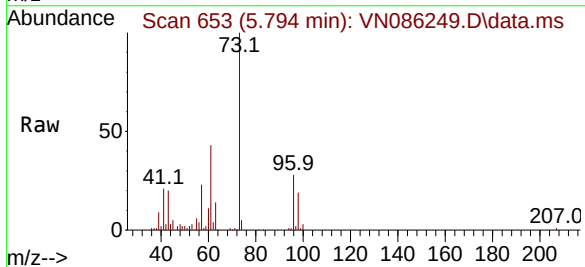
Manual Integrations
APPROVED

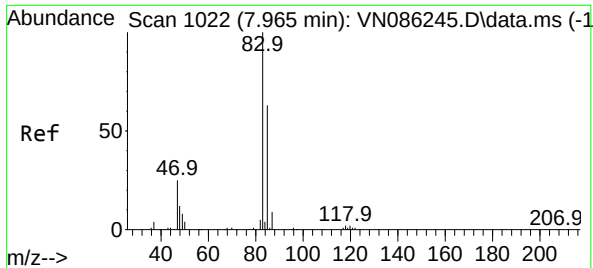
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#24
Methyl tert-Butyl Ether
Concen: 21.230 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

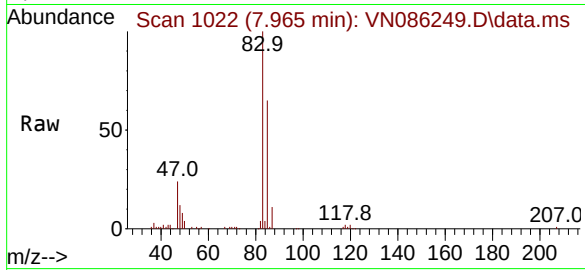
Tgt Ion: 73 Resp: 187291
Ion Ratio Lower Upper
73 100
43 20.4 16.8 25.2





#25
Chloroform
Concen: 21.684 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

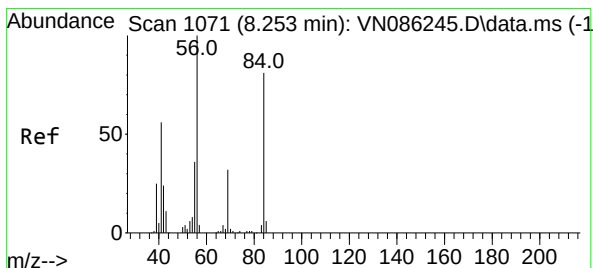
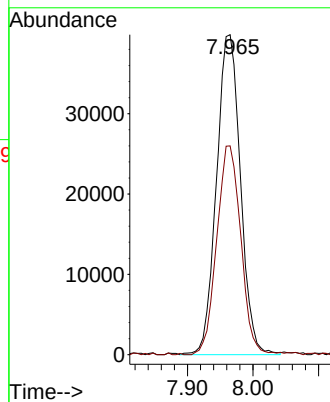
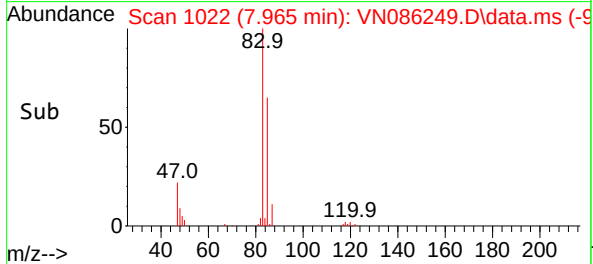
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 83 Resp: 10105
Ion Ratio Lower Upper
83 100
85 64.8 50.5 75.7

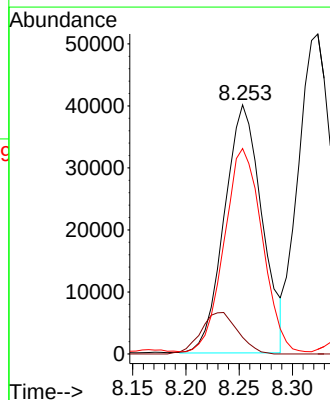
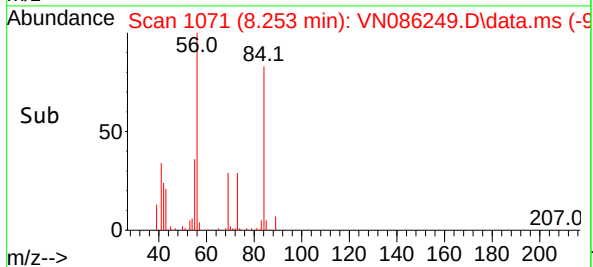
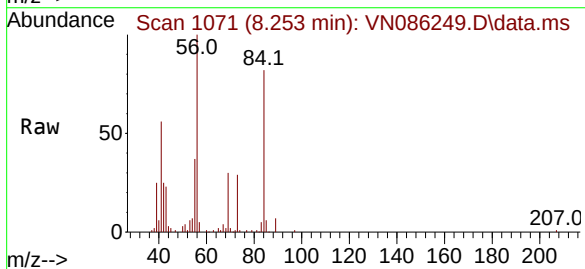
Manual Integrations
APPROVED

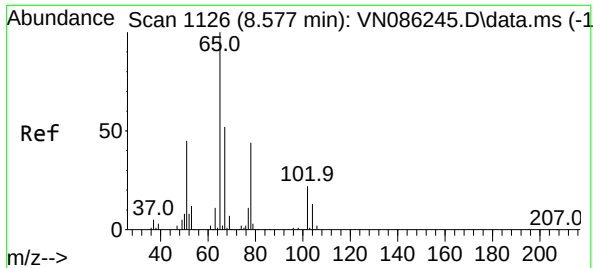
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#26
Cyclohexane
Concen: 21.608 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

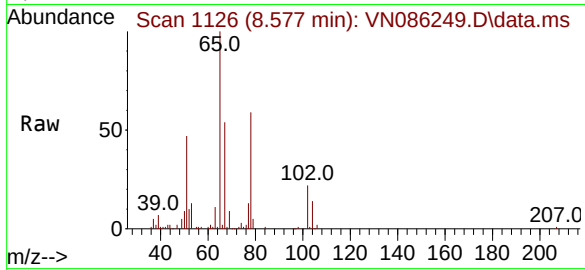
Tgt Ion: 56 Resp: 98792
Ion Ratio Lower Upper
56 100
89 16.4 0.0 0.0#
84 84.4 69.0 103.4





#27
1,2-Dichloroethane-d4
Concen: 30.539 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

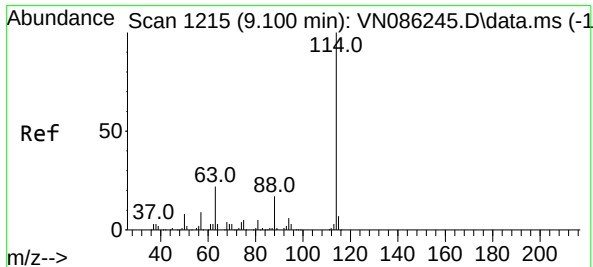
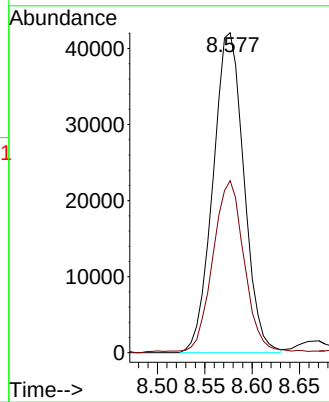
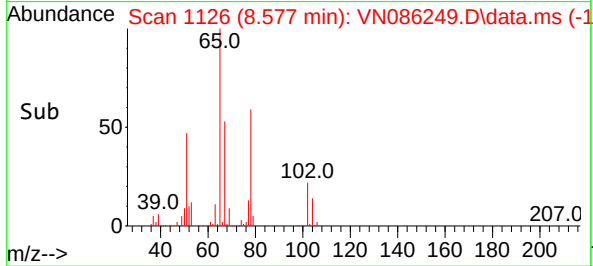
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 65 Resp: 95625
Ion Ratio Lower Upper
65 100
67 54.6 43.4 65.2

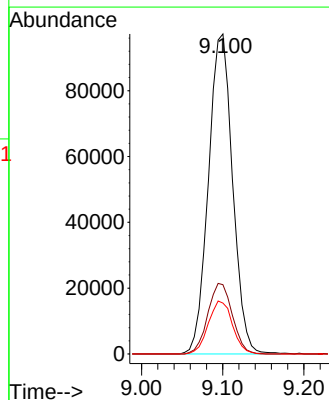
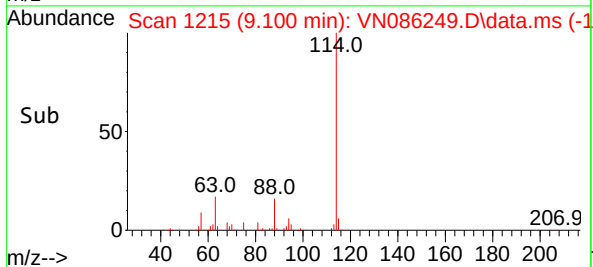
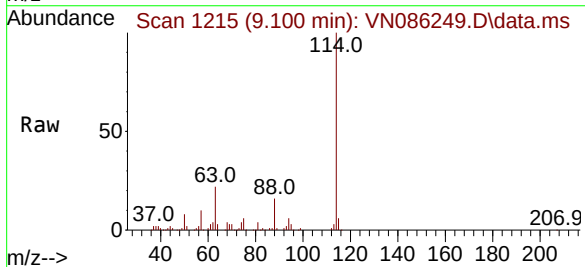
Manual Integrations
APPROVED

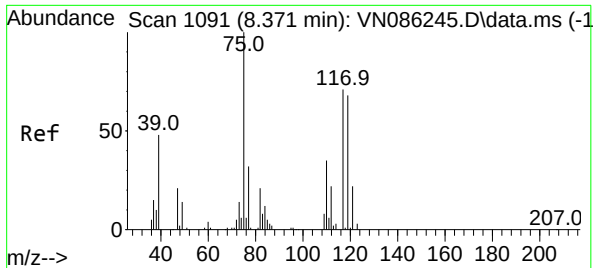
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:114 Resp: 201467
Ion Ratio Lower Upper
114 100
63 22.3 17.8 26.6
88 16.5 13.4 20.2





#29

1,1-Dichloropropene

Concen: 20.848 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

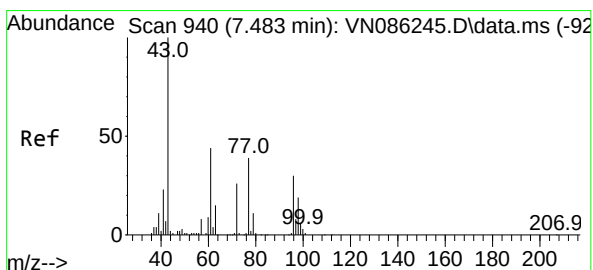
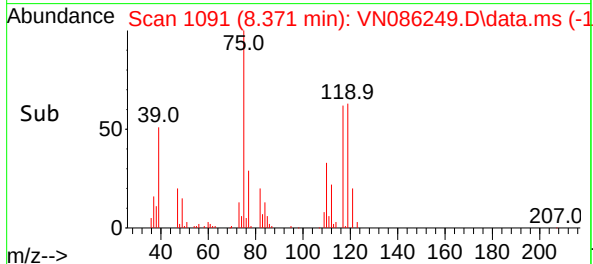
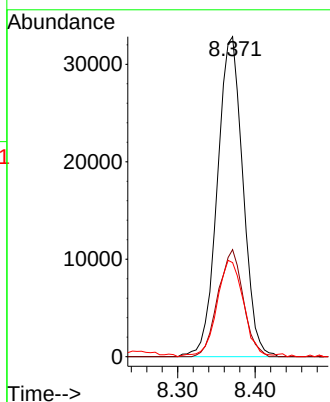
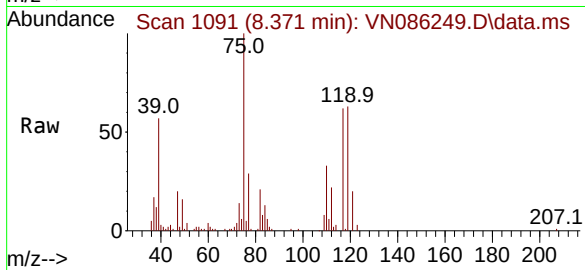
Tgt Ion: 75	Resp: 7524
Ion Ratio	Lower Upper
75 100	
110 33.1	0.0 68.6
77 31.4	0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 96.751 ug/l

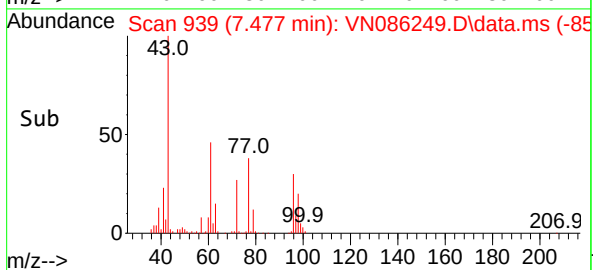
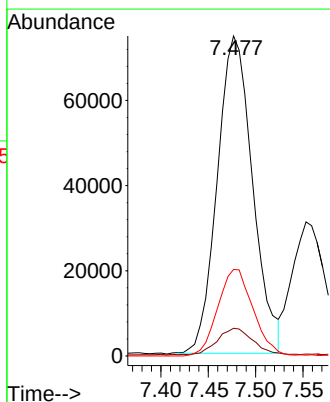
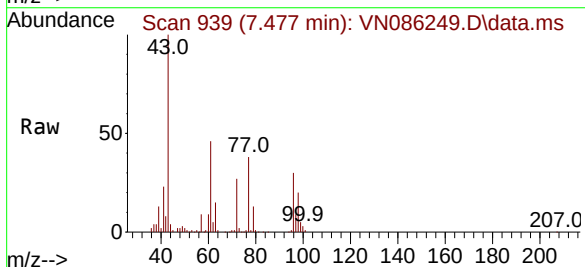
RT: 7.477 min Scan# 939

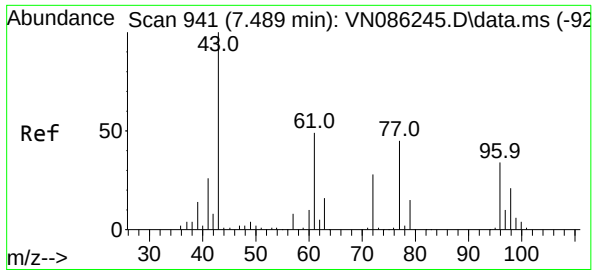
Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Tgt Ion: 43	Resp: 193486
Ion Ratio	Lower Upper
43 100	
57 8.4	6.4 9.6
72 27.2	21.5 32.3





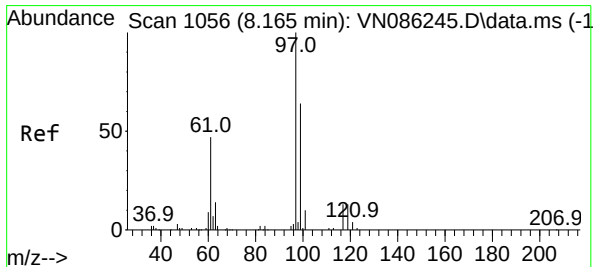
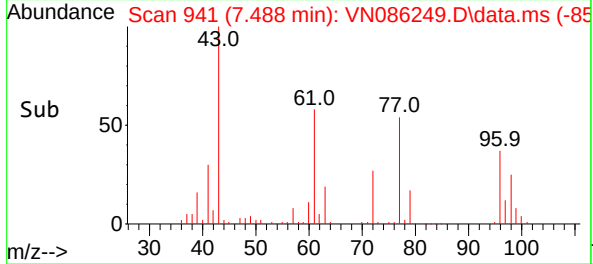
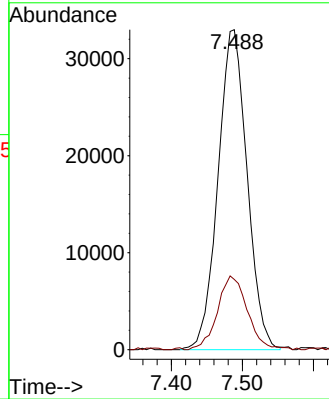
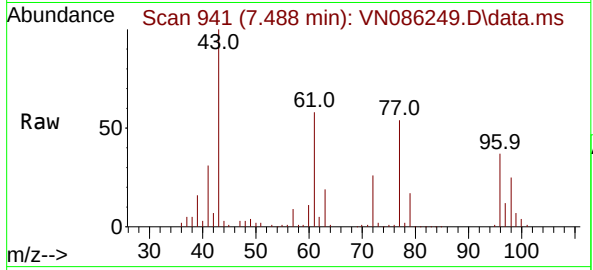
#31
2,2-Dichloropropane
Concen: 21.091 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion: 77 Resp: 9369
Ion Ratio Lower Upper
77 100
97 23.5 18.8 28.2

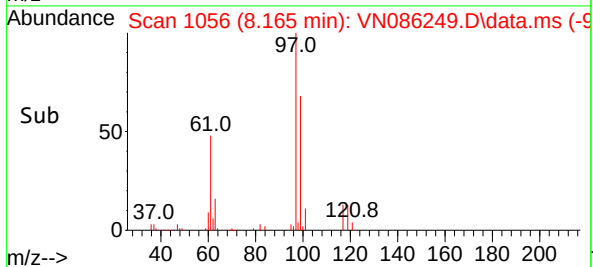
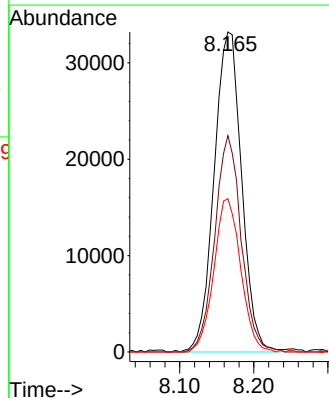
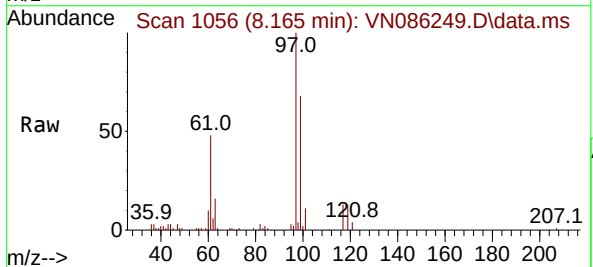
Manual Integrations
APPROVED

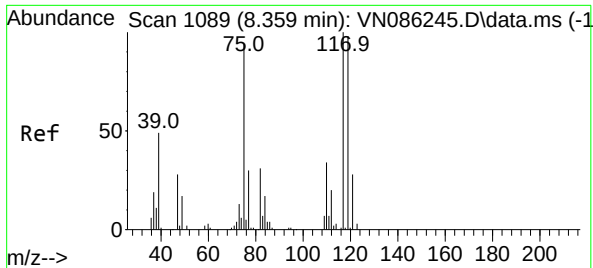
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 20.651 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

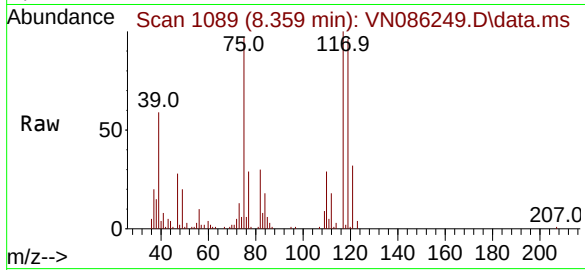
Tgt Ion: 97 Resp: 85736
Ion Ratio Lower Upper
97 100
99 64.9 51.4 77.2
61 46.7 37.0 55.6





#33
Carbon Tetrachloride
Concen: 20.895 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

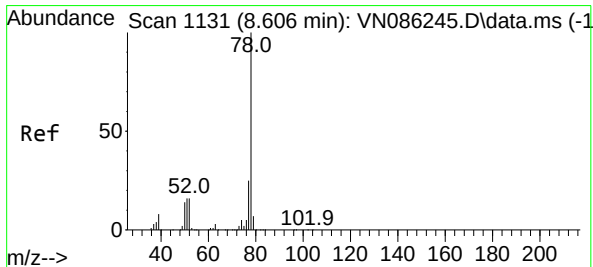
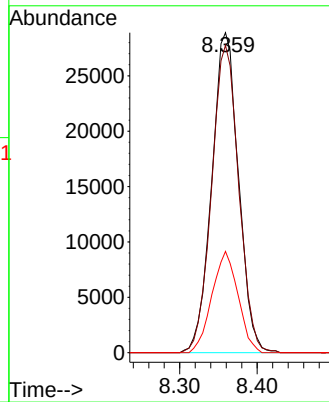
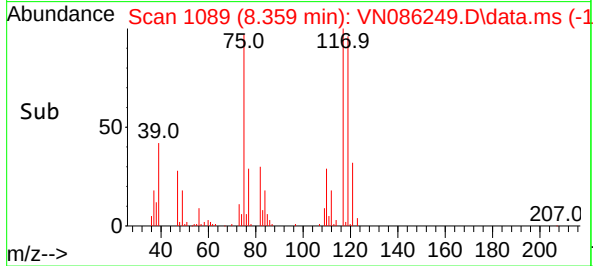
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 117 Resp: 69324
Ion Ratio Lower Upper
117 100
119 96.0 78.3 117.5
121 31.6 22.5 33.7

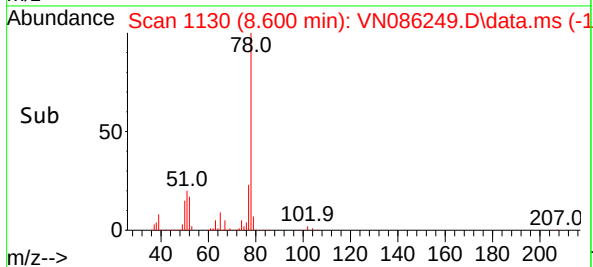
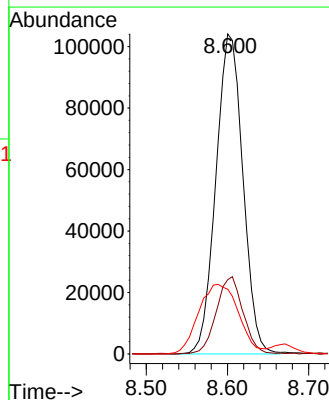
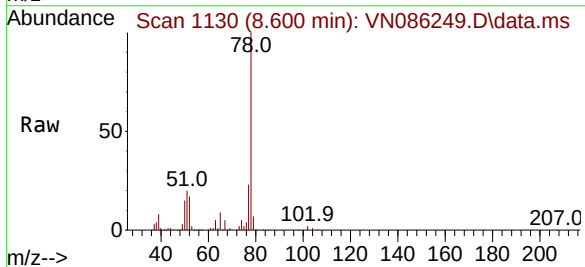
Manual Integrations
APPROVED

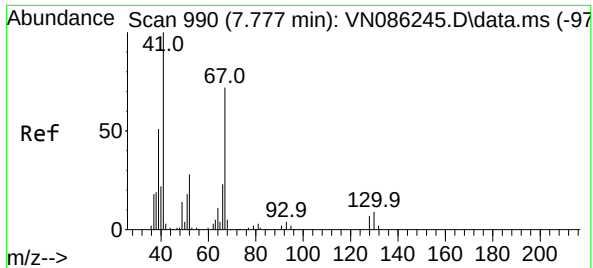
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 20.972 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 78 Resp: 240800
Ion Ratio Lower Upper
78 100
77 23.0 20.0 30.0
51 19.1 12.9 19.3





#35

Methacrylonitrile

Concen: 19.760 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 41 Resp: 44549

Ion Ratio Lower Upper

41 100

39 47.0 25.8 77.3

67 68.5 36.0 108.0

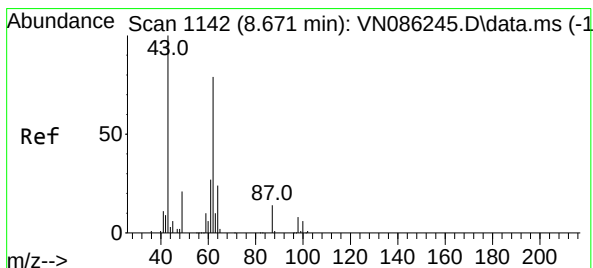
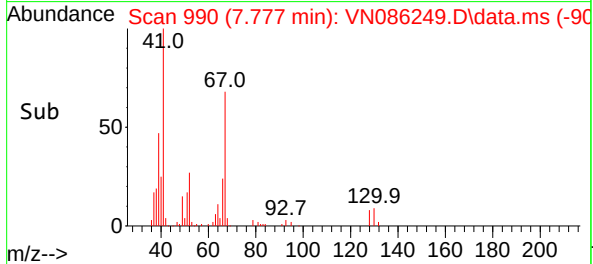
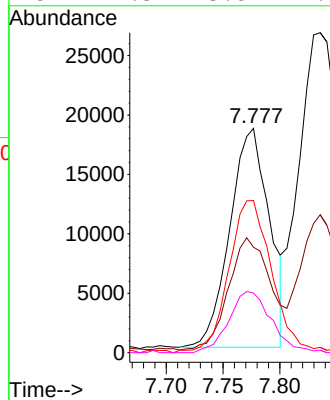
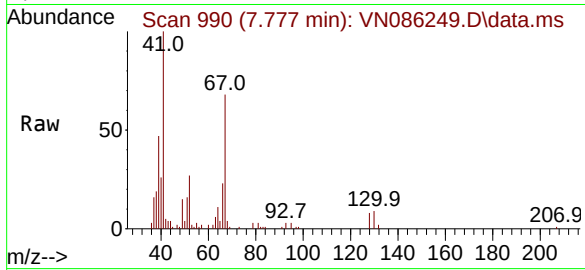
52 27.3 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 20.892 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086249.D

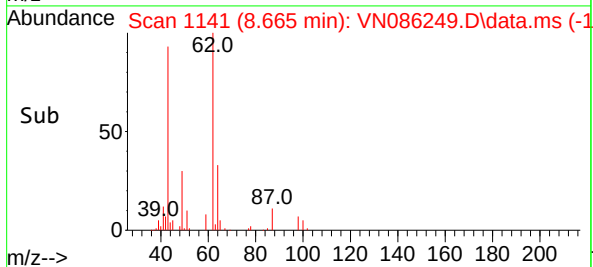
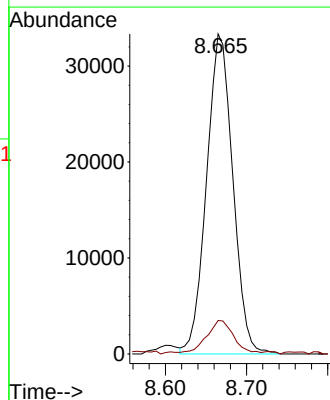
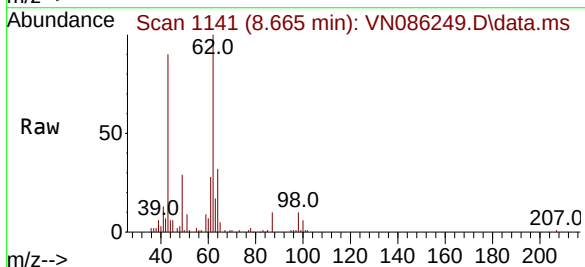
Acq: 11 Apr 2025 14:38

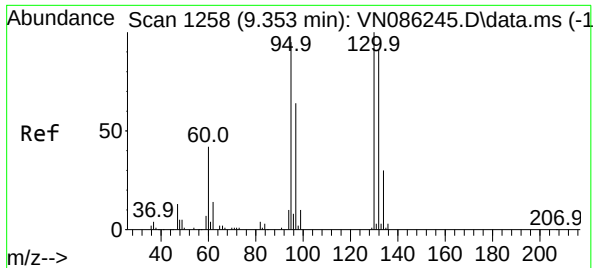
Tgt Ion: 62 Resp: 75064

Ion Ratio Lower Upper

62 100

98 10.3 8.6 12.8





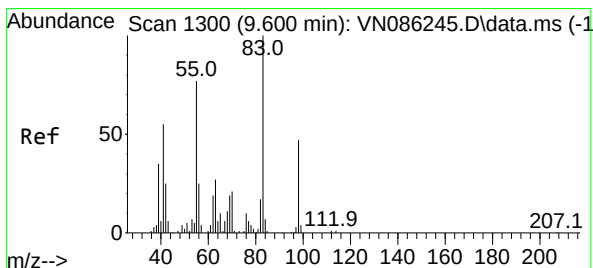
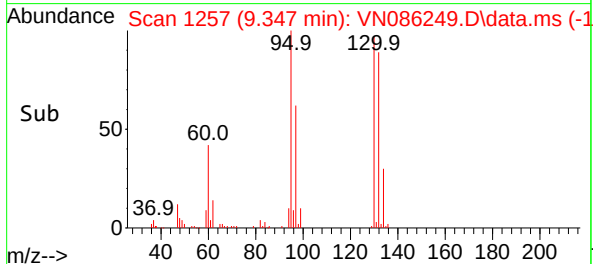
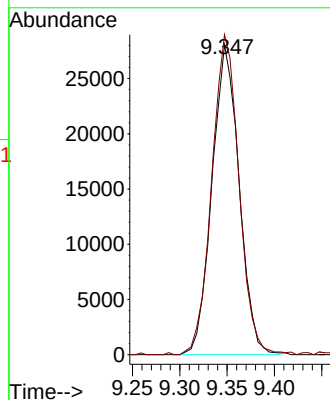
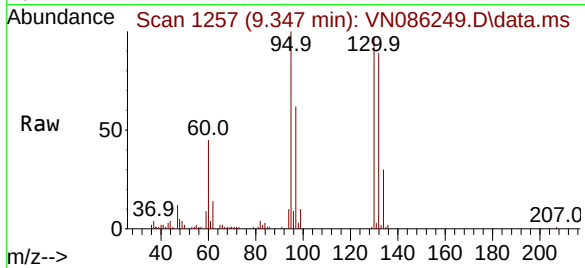
#37
Trichloroethene
Concen: 20.150 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion:130 Resp: 5582
Ion Ratio Lower Upper
130 100
95 103.2 76.4 114.6

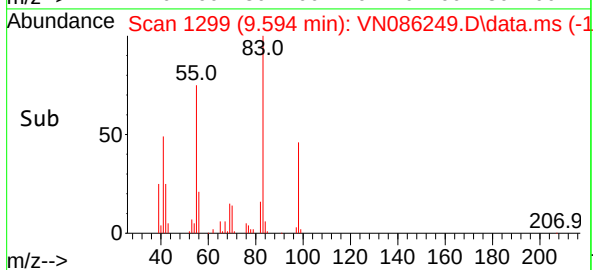
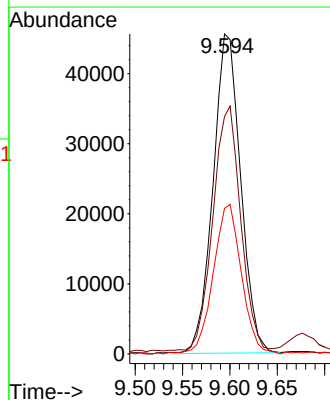
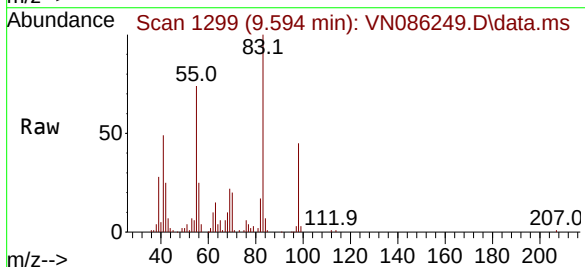
Manual Integrations
APPROVED

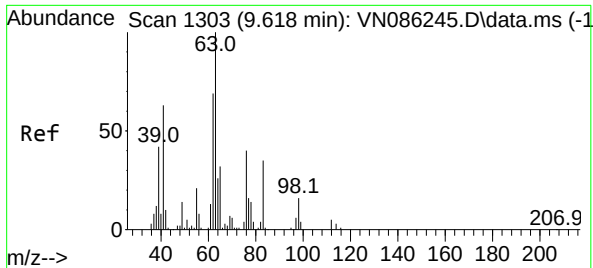
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#38
Methylcyclohexane
Concen: 20.887 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 83 Resp: 92449
Ion Ratio Lower Upper
83 100
55 77.4 38.5 115.5
98 47.6 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.876 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 63 Resp: 5964

Ion Ratio Lower Upper

63 100

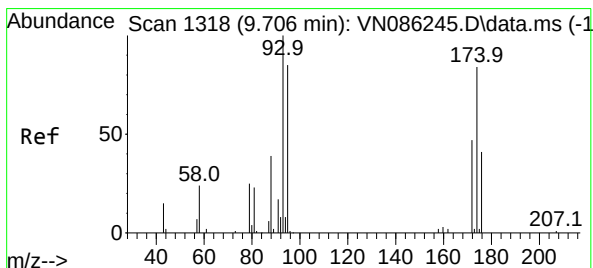
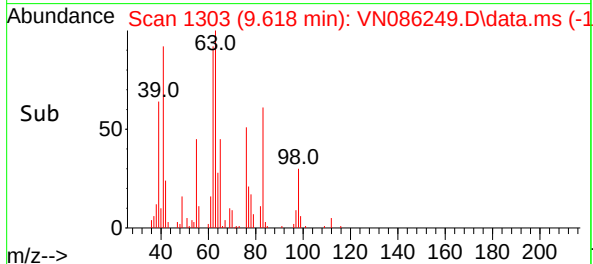
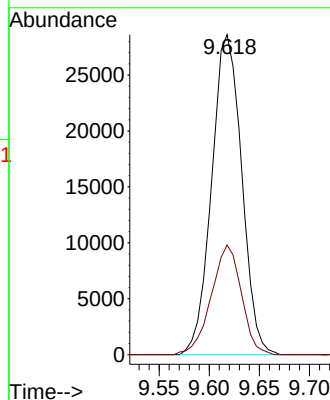
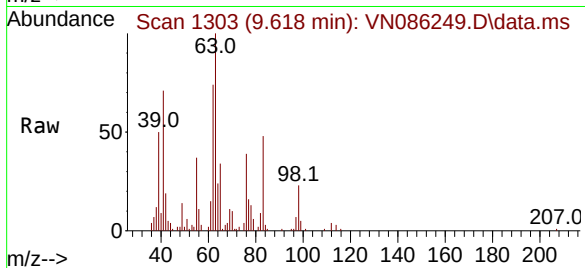
65 34.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 20.021 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

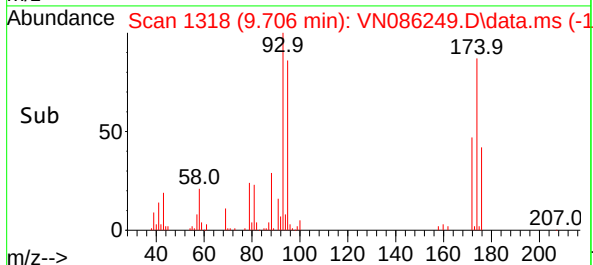
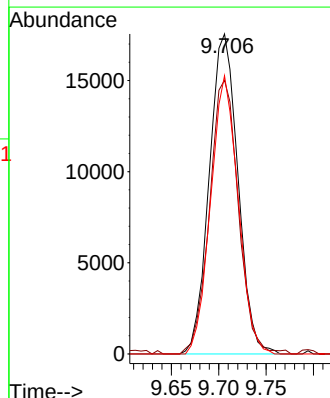
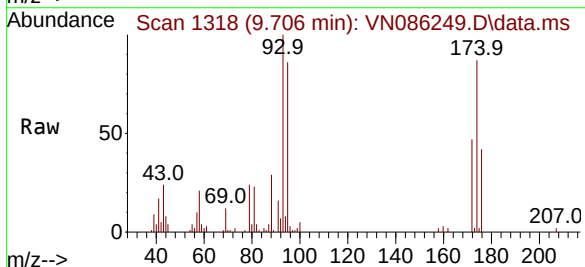
Tgt Ion: 93 Resp: 36945

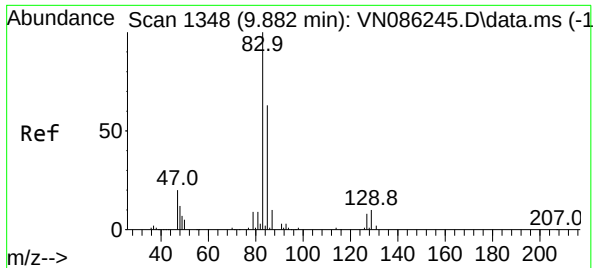
Ion Ratio Lower Upper

93 100

95 85.6 0.0 169.0

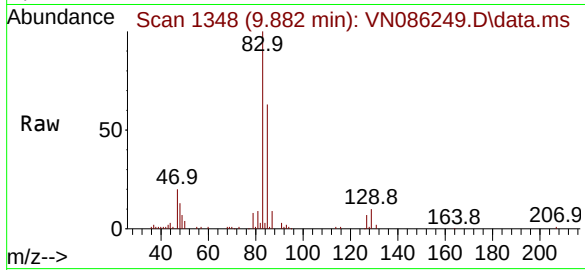
174 83.5 0.0 168.0





#41
Bromodichloromethane
Concen: 20.598 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

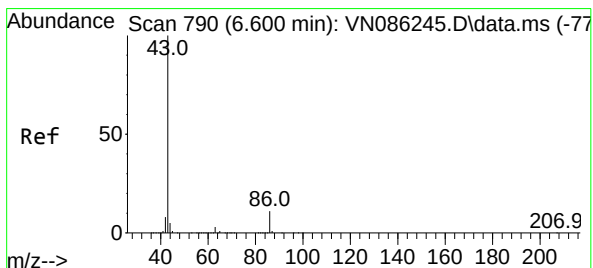
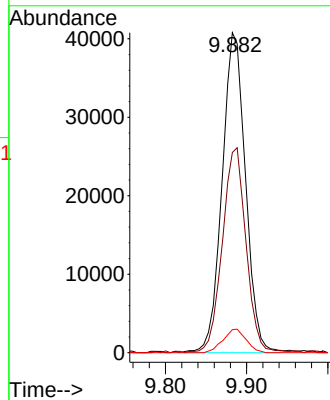
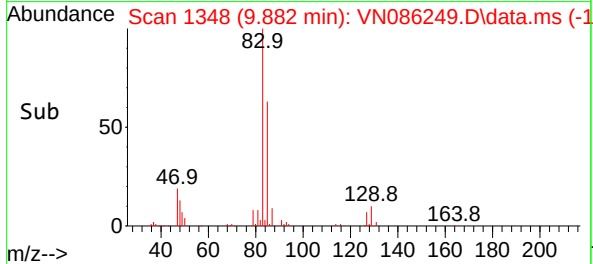
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 83 Resp: 81658
Ion Ratio Lower Upper
83 100
85 62.1 50.2 75.2
127 7.2 6.2 9.4

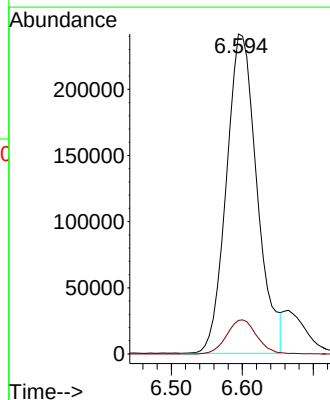
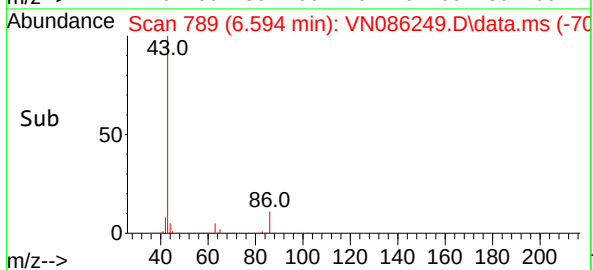
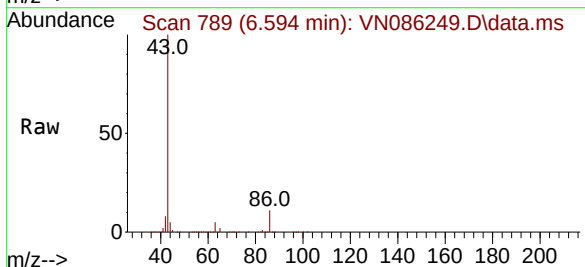
Manual Integrations
APPROVED

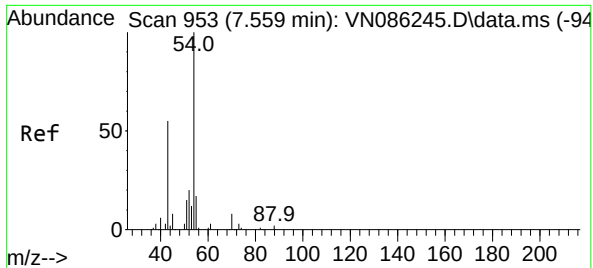
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 106.292 ug/l
RT: 6.594 min Scan# 789
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

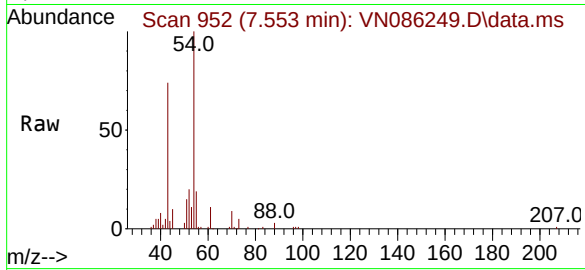
Tgt Ion: 43 Resp: 723573
Ion Ratio Lower Upper
43 100
86 10.4 8.4 12.6





#43
Ethyl Acetate
Concen: 19.328 ug/l
RT: 7.553 min Scan# 911
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

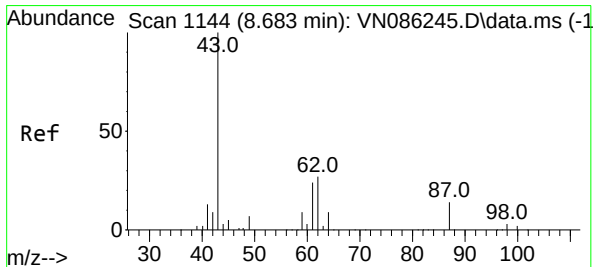
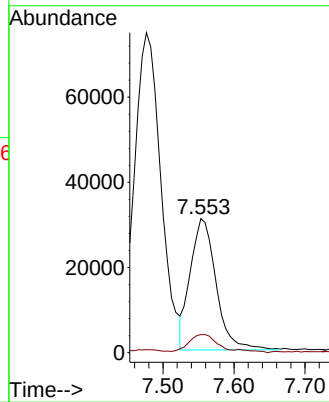
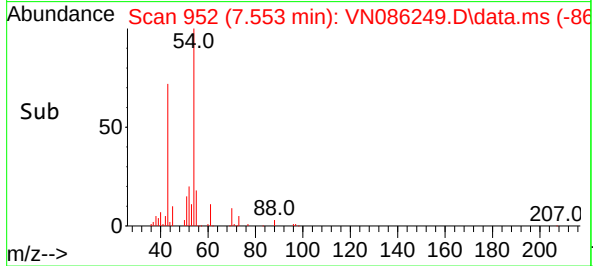
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 43 Resp: 7796
Ion Ratio Lower Upper
43 100
45 13.2 11.2 16.8

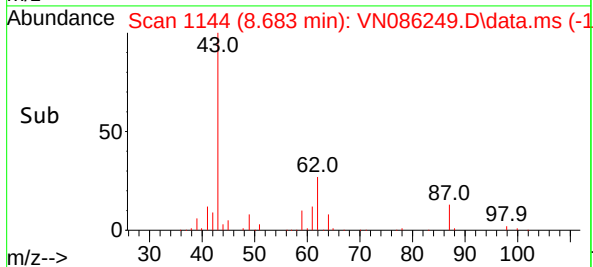
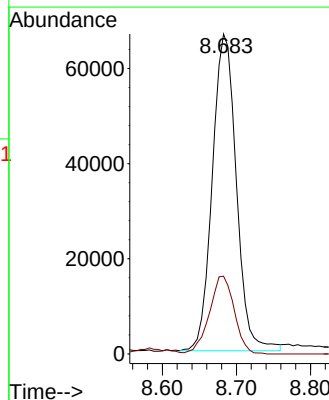
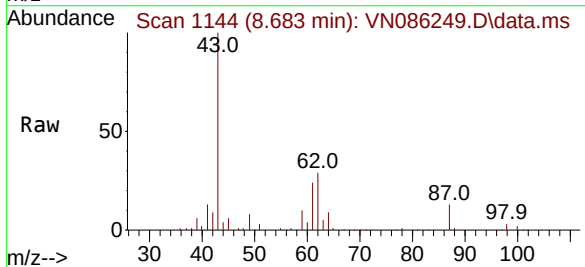
Manual Integrations
APPROVED

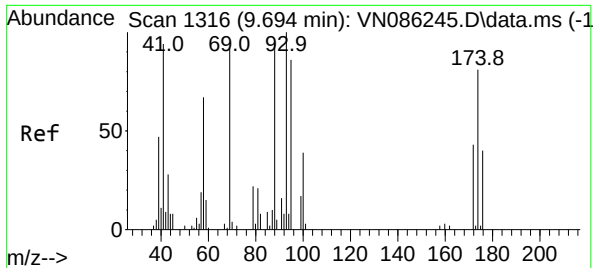
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 20.046 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 43 Resp: 150010
Ion Ratio Lower Upper
43 100
61 24.9 20.5 30.7





#45

1,4-Dioxane

Concen: 366.878 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 88 Resp: 2183

Ion Ratio Lower Upper

88 100

43 30.1 14.4 21.6

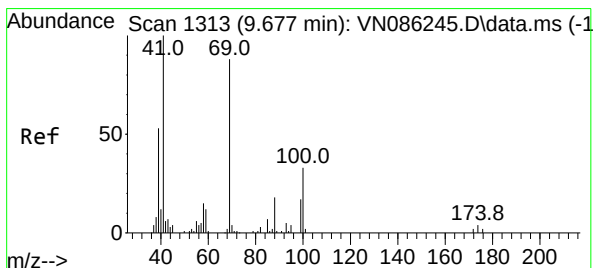
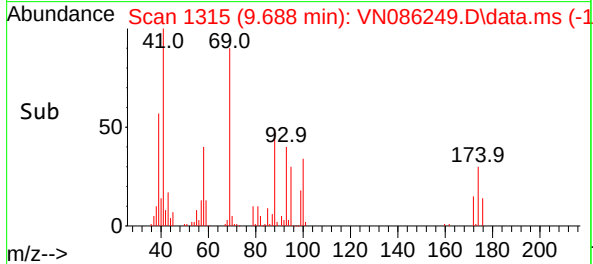
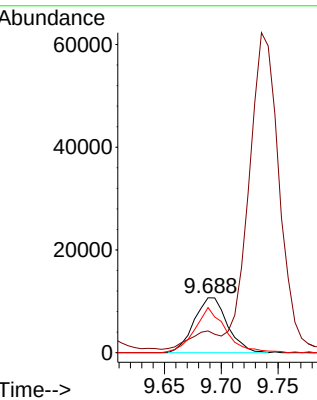
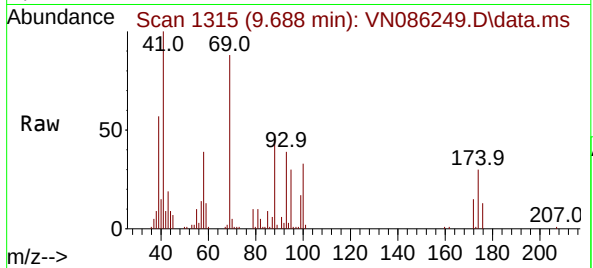
58 76.8 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 20.193 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

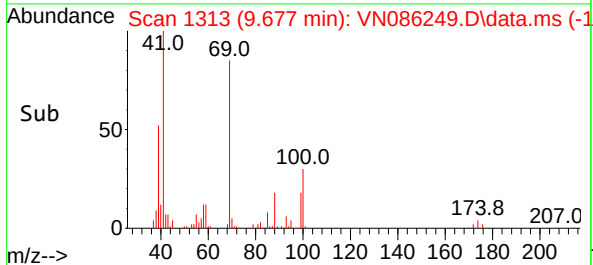
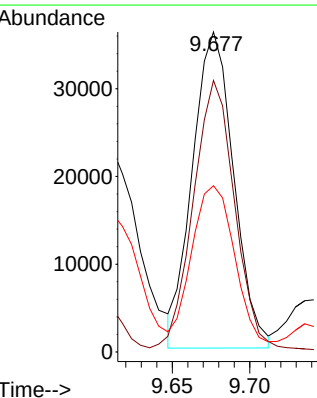
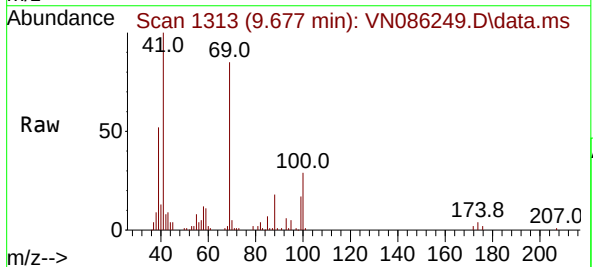
Tgt Ion: 41 Resp: 66579

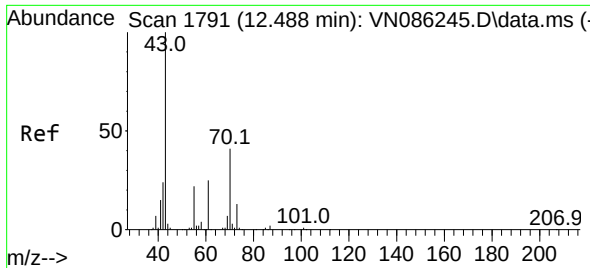
Ion Ratio Lower Upper

41 100

69 85.8 43.2 129.6

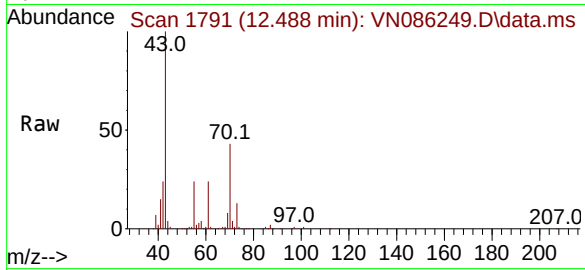
39 51.3 26.4 79.0





#47
n-amy1 Acetate
Concen: 19.943 ug/l
RT: 12.488 min Scan# 11832
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

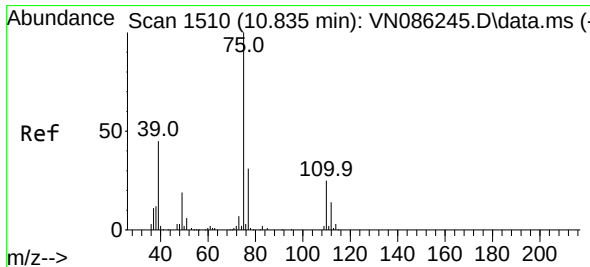
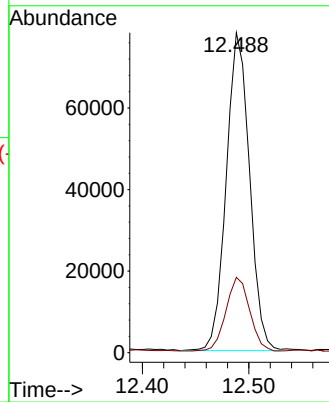
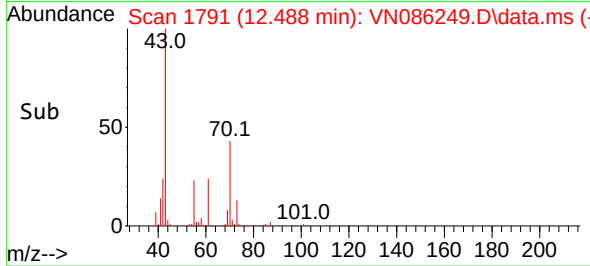
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 43 Resp: 11832
Ion Ratio Lower Upper
43 100
55 23.5 19.0 28.4

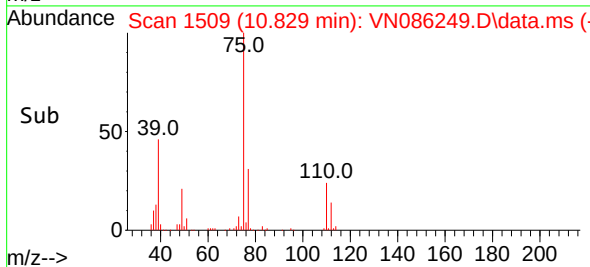
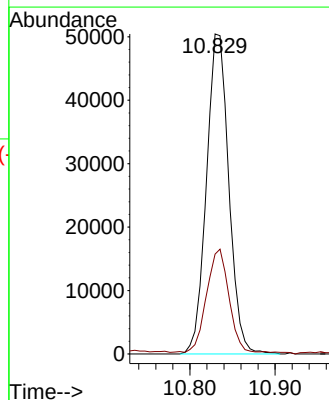
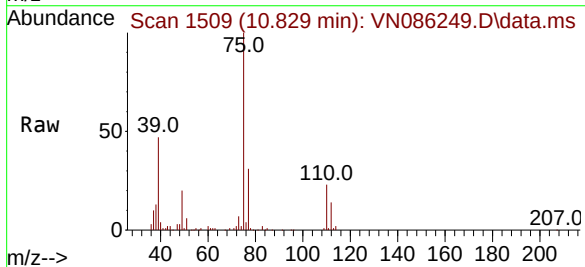
Manual Integrations
APPROVED

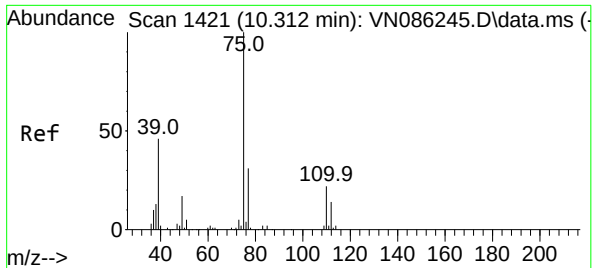
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#48
t-1,3-Dichloropropene
Concen: 20.541 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

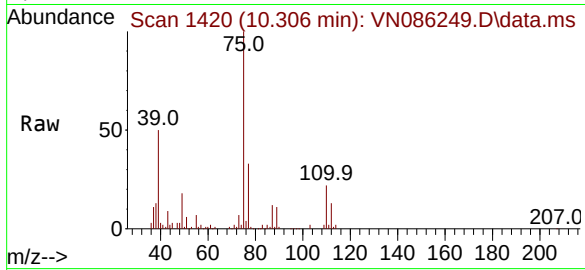
Tgt Ion: 75 Resp: 92056
Ion Ratio Lower Upper
75 100
77 30.7 25.1 37.7





#49
 cis-1,3-Dichloropropene
 Concen: 20.682 ug/l
 RT: 10.306 min Scan# 1421
 Delta R.T. -0.006 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

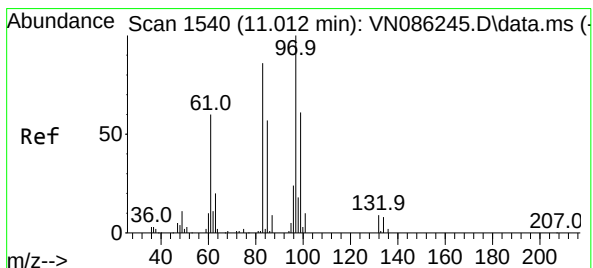
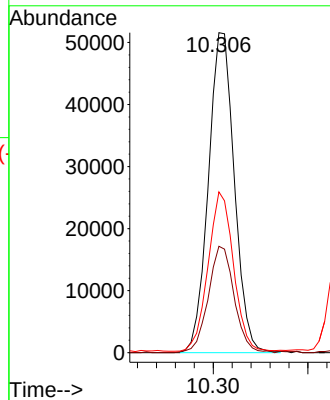
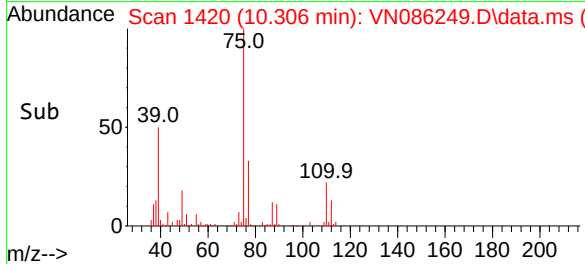
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01



Tgt Ion: 75 Resp: 98100
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.0 37.4
 39 49.8 36.7 55.1

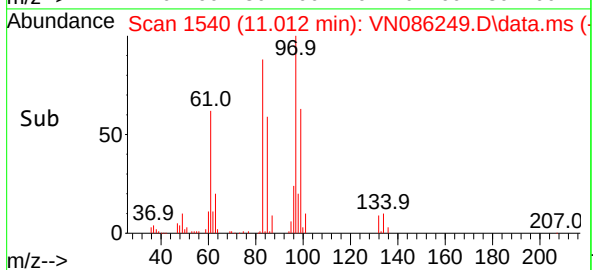
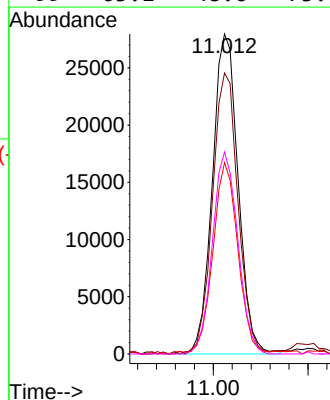
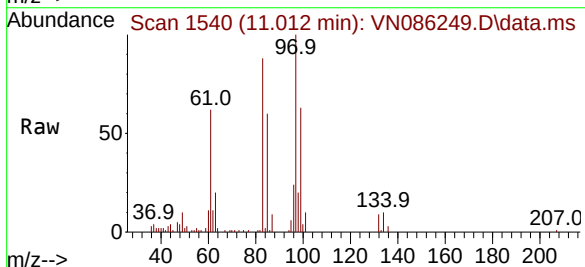
Manual Integrations
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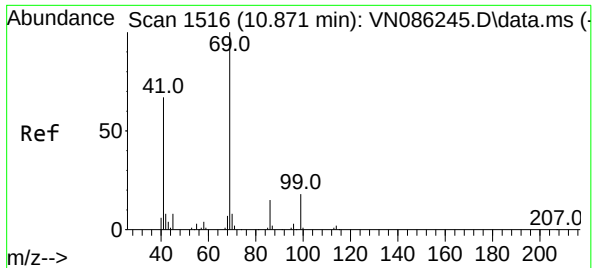
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#50
 1,1,2-Trichloroethane
 Concen: 20.382 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

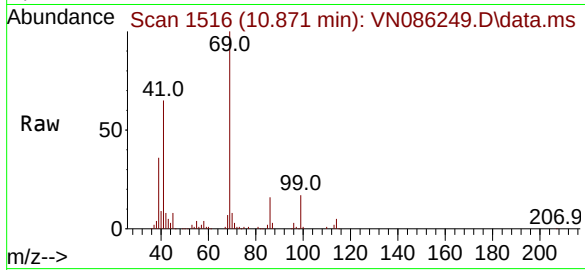
Tgt Ion: 97 Resp: 52750
 Ion Ratio Lower Upper
 97 100
 83 87.0 68.6 103.0
 85 59.1 45.9 68.9
 99 63.1 48.6 73.0





#51
Ethyl methacrylate
Concen: 20.222 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

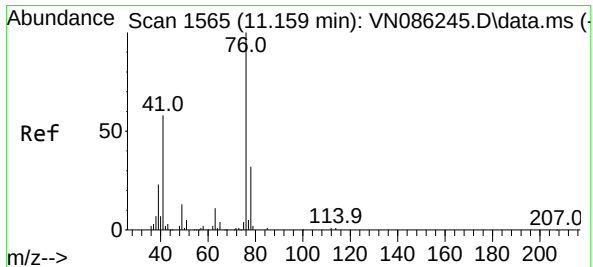
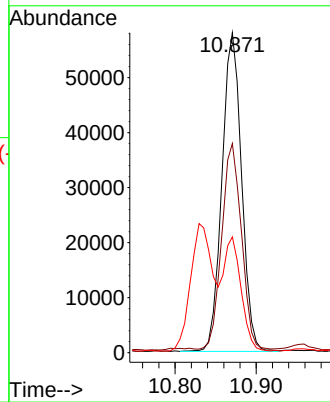
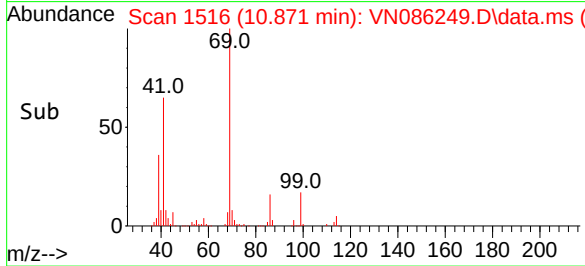
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 69 Resp: 97258
Ion Ratio Lower Upper
69 100
41 64.3 33.6 100.6
39 35.9 17.8 53.4

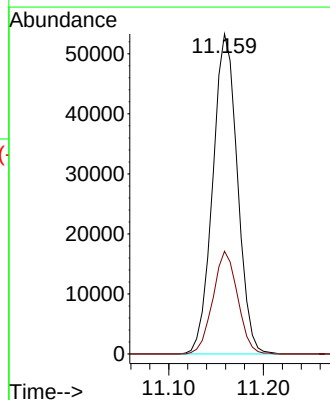
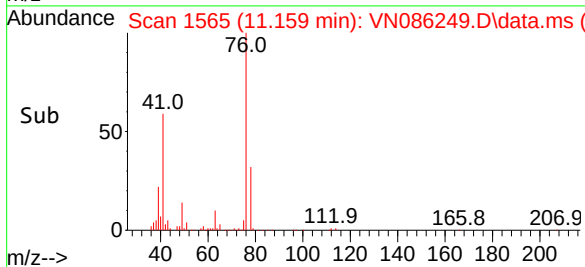
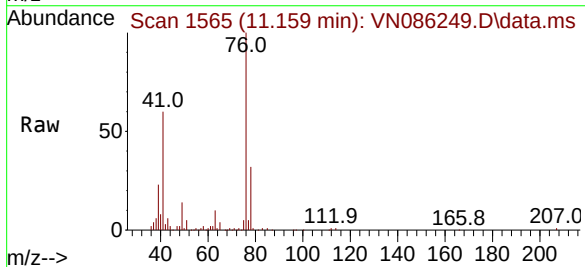
Manual Integrations
APPROVED

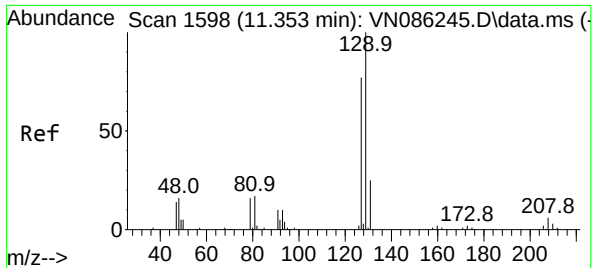
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 20.938 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

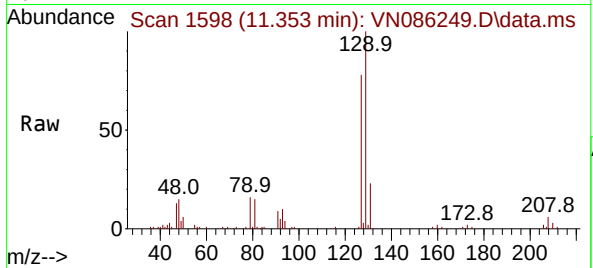
Tgt Ion: 76 Resp: 96585
Ion Ratio Lower Upper
76 100
78 32.1 0.0 64.6





#53
Dibromochloromethane
Concen: 20.369 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

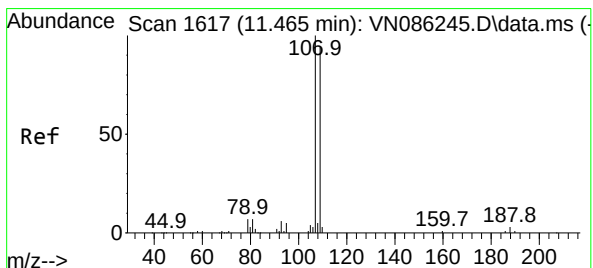
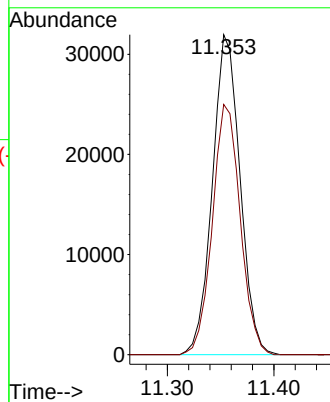
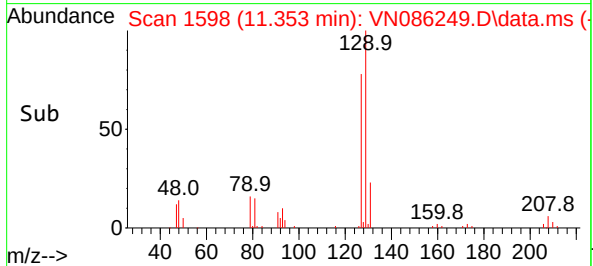
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:129 Resp: 5766
Ion Ratio Lower Upper
129 100
127 78.7 38.5 115.5

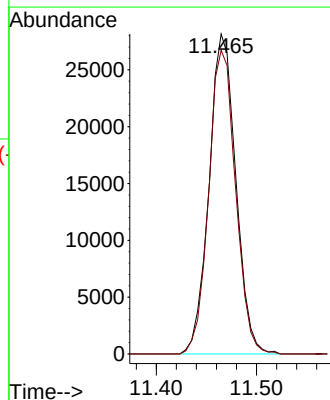
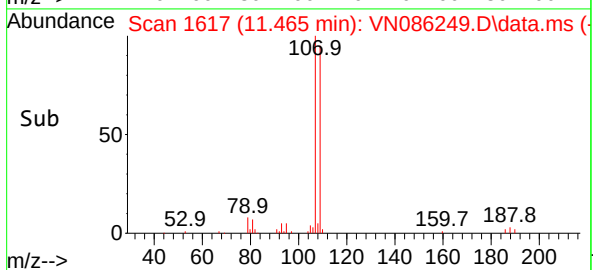
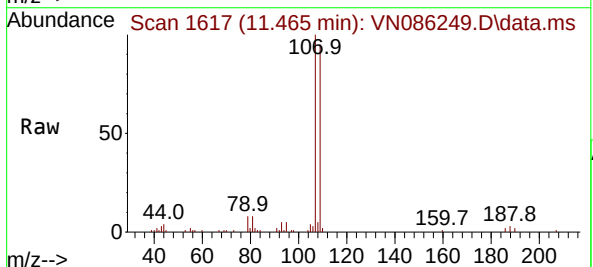
Manual Integrations
APPROVED

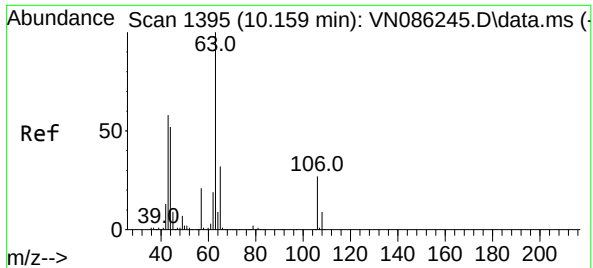
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 20.012 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

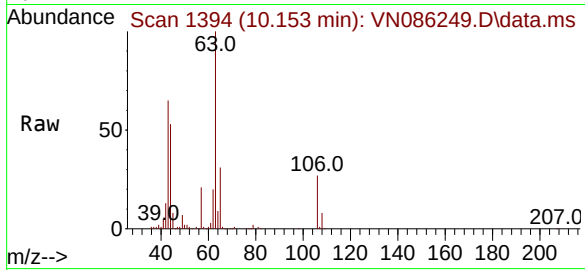
Tgt Ion:107 Resp: 52283
Ion Ratio Lower Upper
107 100
109 95.0 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 100.309 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

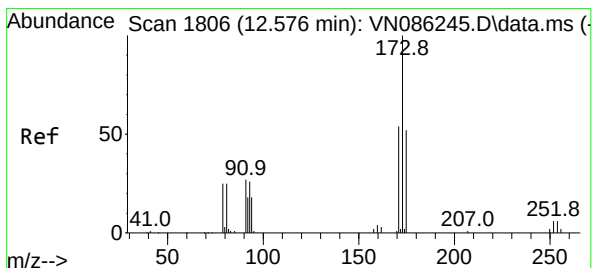
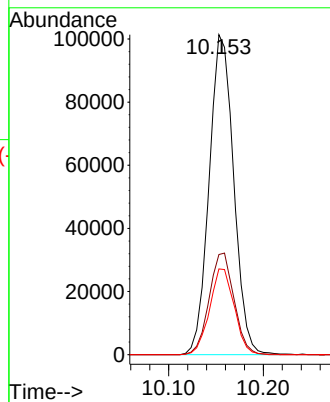
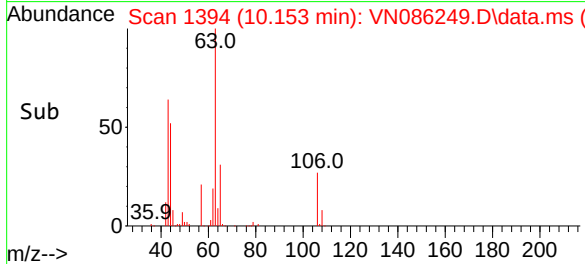
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 63 Resp: 182299
Ion Ratio Lower Upper
63 100
65 32.2 25.8 38.8
106 27.0 21.8 32.8

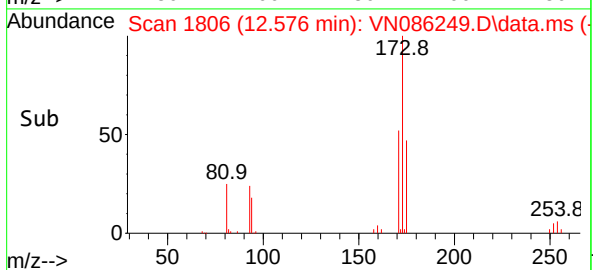
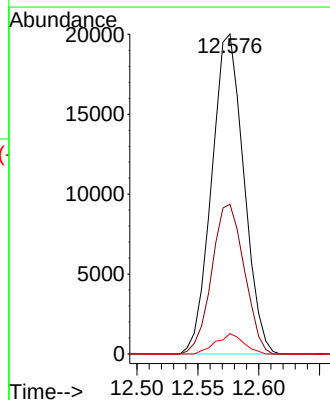
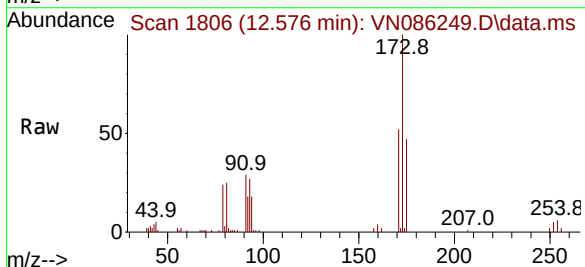
Manual Integrations
APPROVED

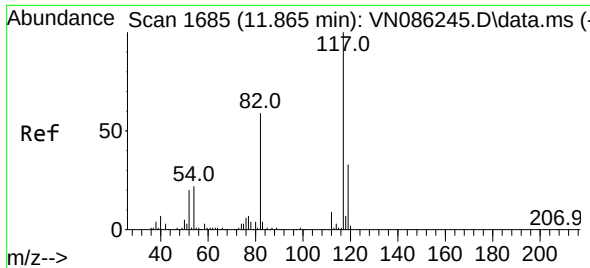
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 19.864 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

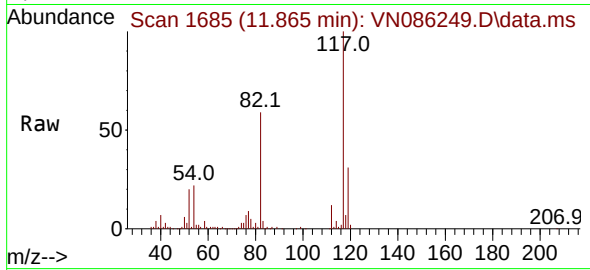
Tgt Ion:173 Resp: 36790
Ion Ratio Lower Upper
173 100
175 47.3 38.2 57.4
254 5.5 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

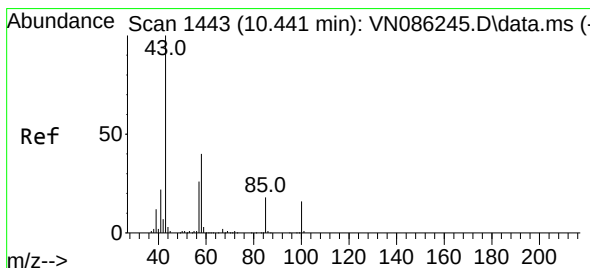
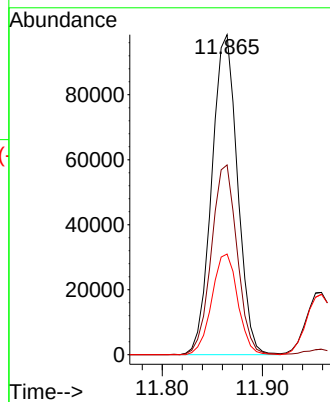
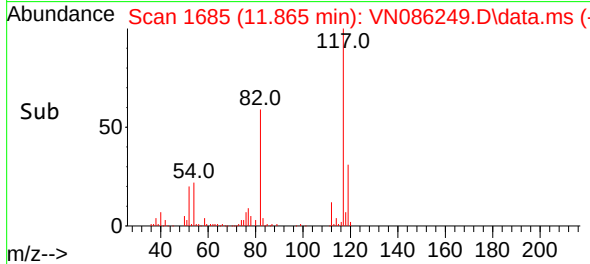
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 117 Resp: 175632
Ion Ratio Lower Upper
117 100
82 59.5 47.3 70.9
119 31.8 25.9 38.9

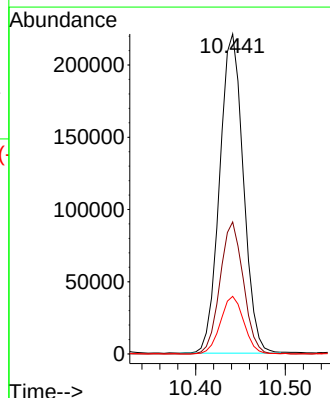
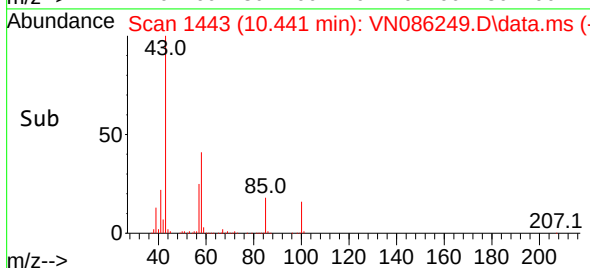
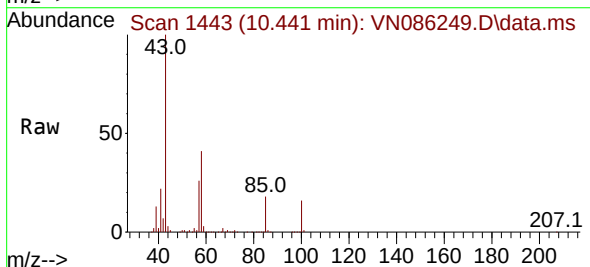
Manual Integrations
APPROVED

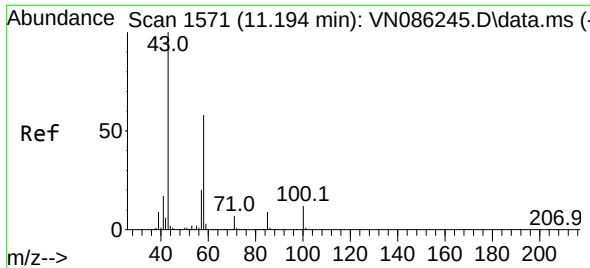
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 101.770 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

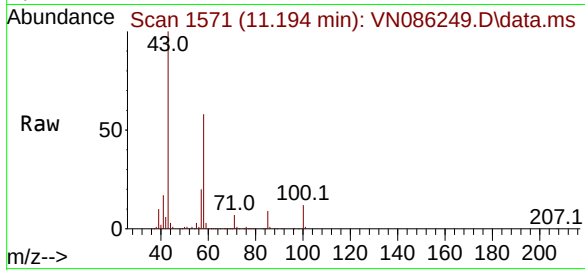
Tgt Ion: 43 Resp: 405618
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 17.9 14.4 21.6





#59
2-Hexanone
Concen: 100.637 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

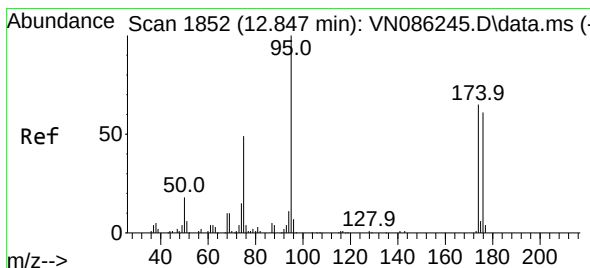
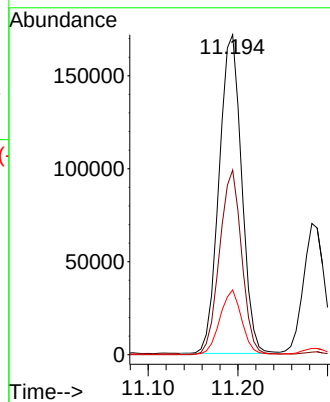
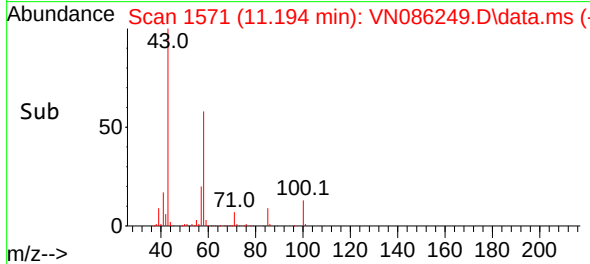
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



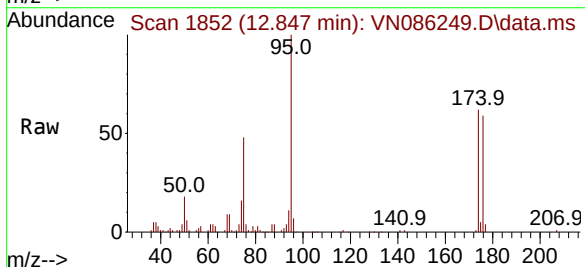
Tgt Ion: 43 Resp: 29867
Ion Ratio Lower Upper
43 100
58 56.8 45.3 67.9
57 19.3 15.8 23.6

Manual Integrations
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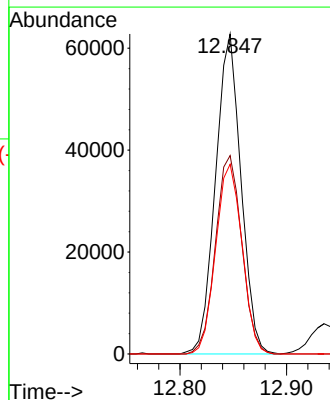
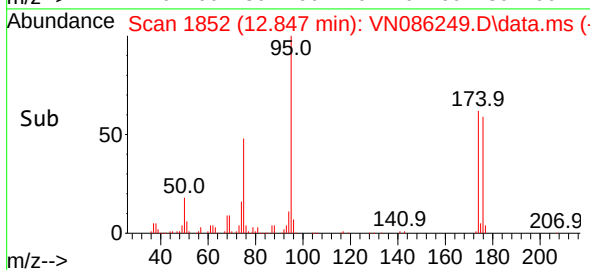
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

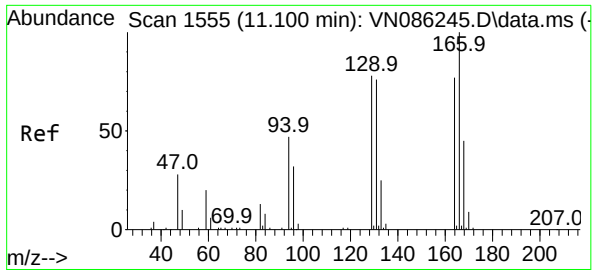


#60
4-Bromofluorobenzene
Concen: 29.838 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38



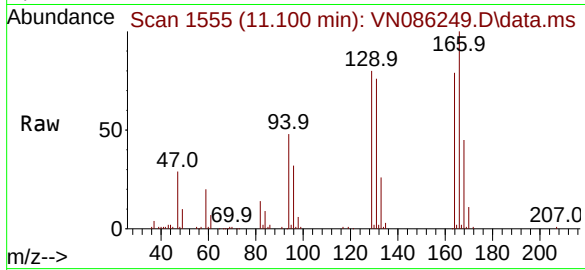
Tgt Ion: 95 Resp: 104335
Ion Ratio Lower Upper
95 100
174 63.9 52.7 79.1
176 61.2 49.8 74.8





#61
Tetrachloroethene
Concen: 20.949 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

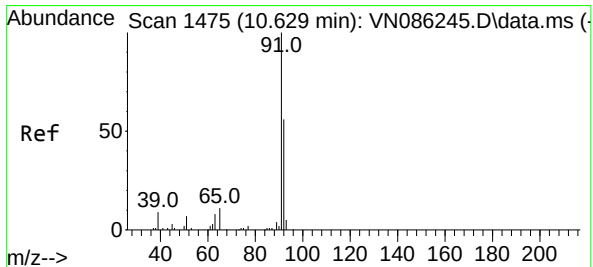
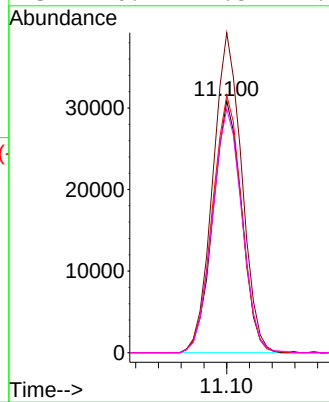
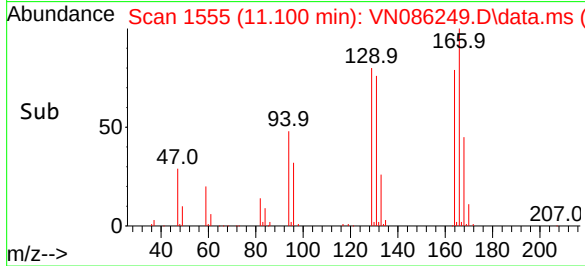
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:164 Resp: 54338
Ion Ratio Lower Upper
164 100
166 127.2 104.5 156.7
129 102.3 81.7 122.5
131 96.9 79.8 119.6

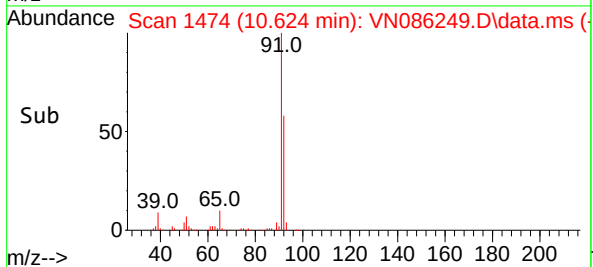
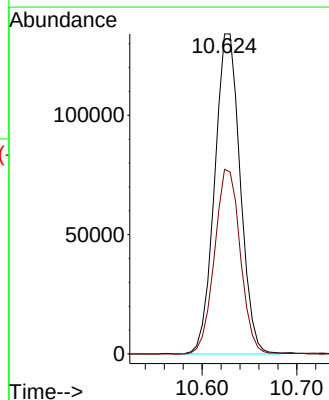
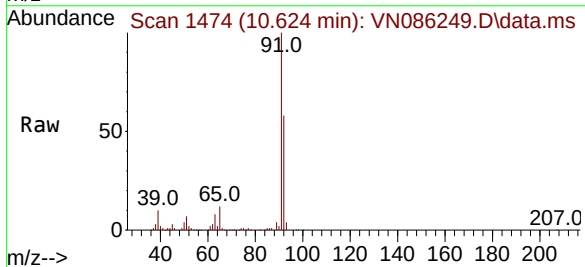
Manual Integrations
APPROVED

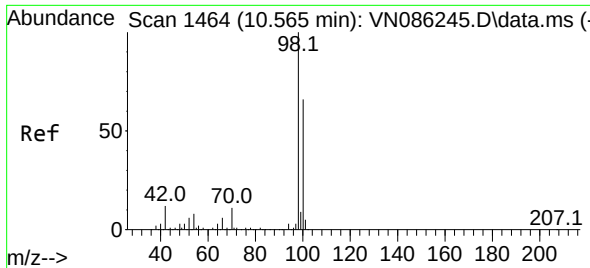
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 21.355 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

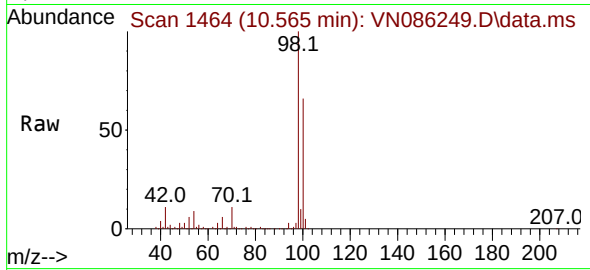
Tgt Ion: 91 Resp: 251566
Ion Ratio Lower Upper
91 100
92 58.1 46.8 70.2





#63
Toluene-d8
Concen: 30.325 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

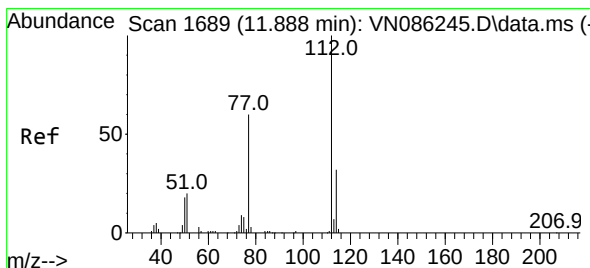
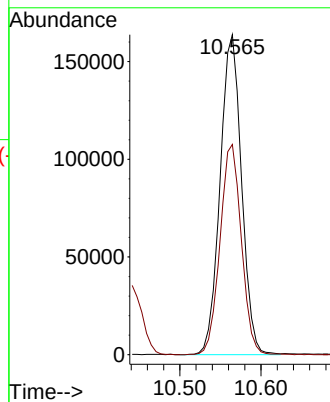
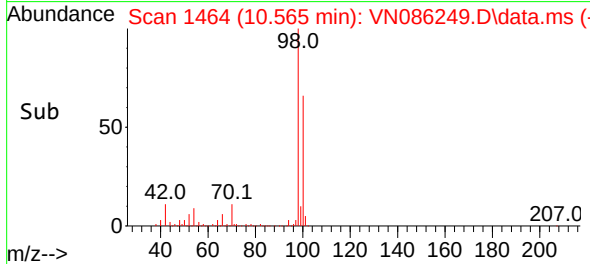
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 98 Resp: 300690
Ion Ratio Lower Upper
98 100
100 65.3 52.3 78.5

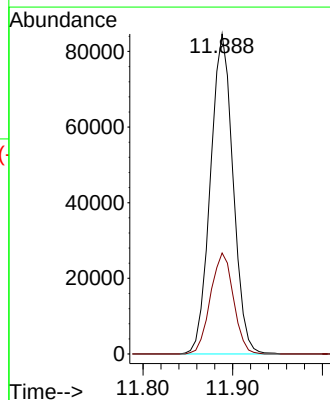
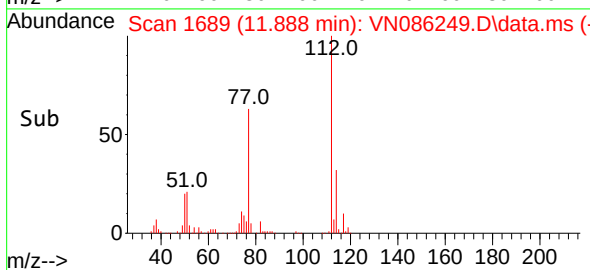
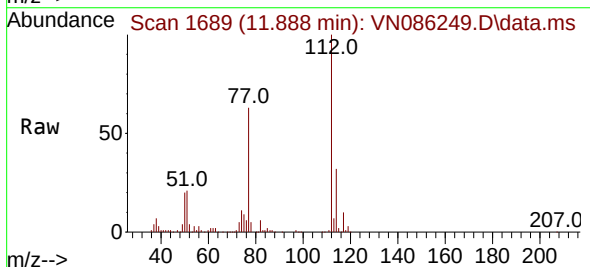
Manual Integrations
APPROVED

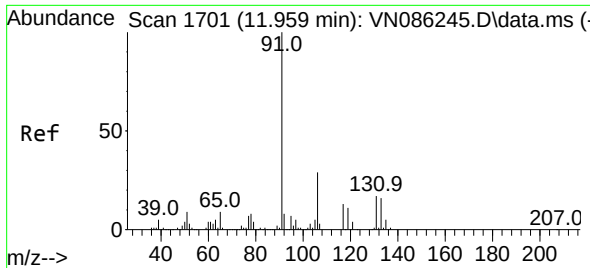
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 20.597 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

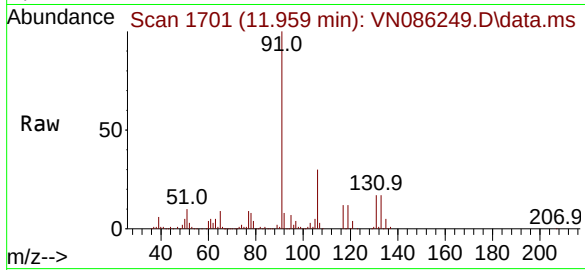
Tgt Ion:112 Resp: 148243
Ion Ratio Lower Upper
112 100
114 31.5 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 21.344 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

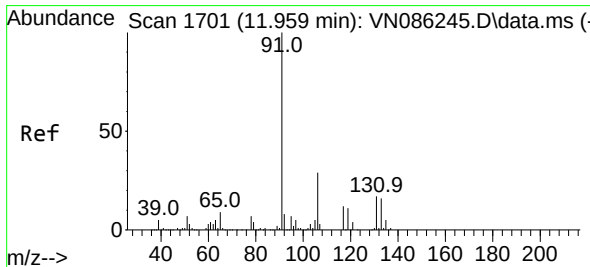
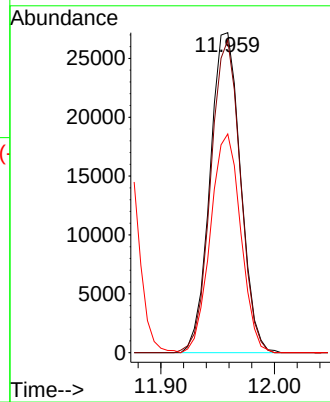
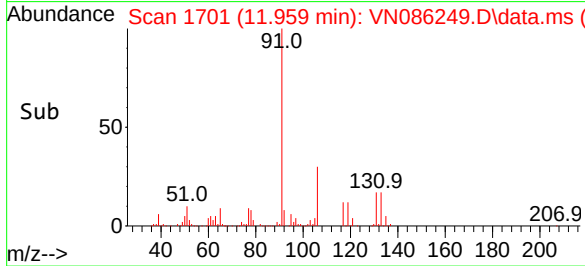
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:131 Resp: 50690
Ion Ratio Lower Upper
131 100
133 94.9 0.0 190.4
119 67.7 0.0 135.6

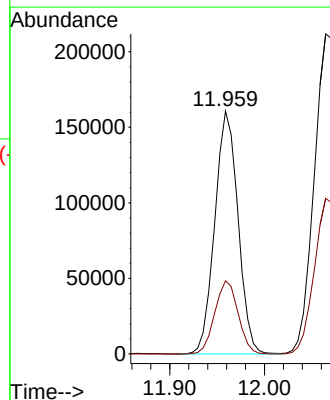
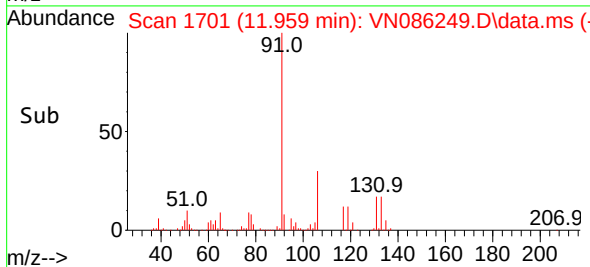
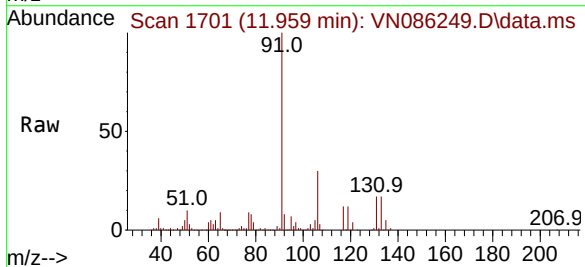
Manual Integrations
APPROVED

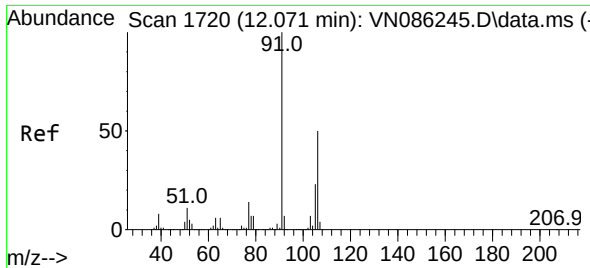
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 20.960 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

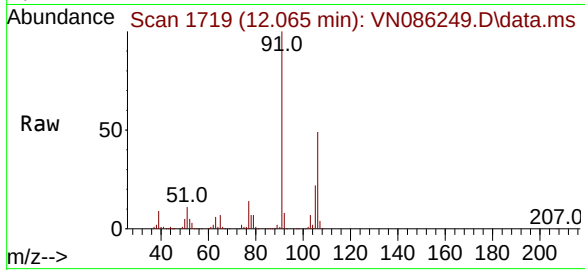
Tgt Ion: 91 Resp: 273823
Ion Ratio Lower Upper
91 100
106 30.1 23.4 35.0





#67
m/p-Xylenes
Concen: 41.705 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

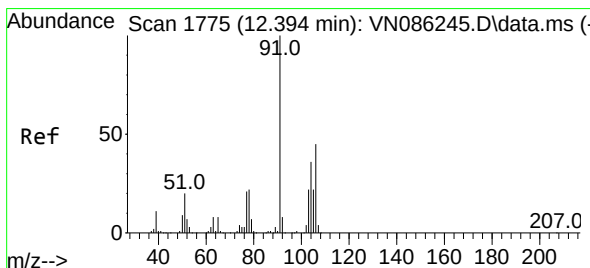
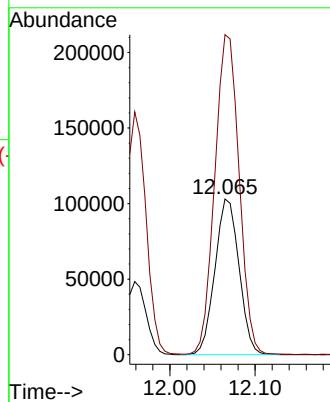
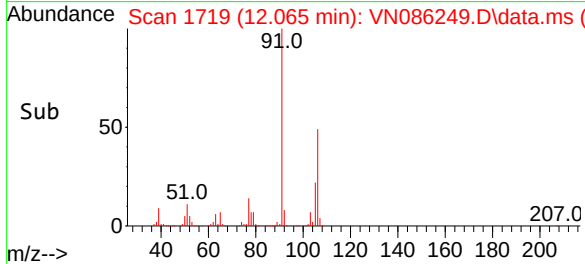
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:106 Resp: 202590
Ion Ratio Lower Upper
106 100
91 208.3 164.5 246.7

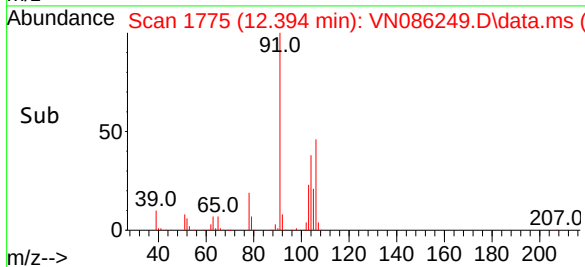
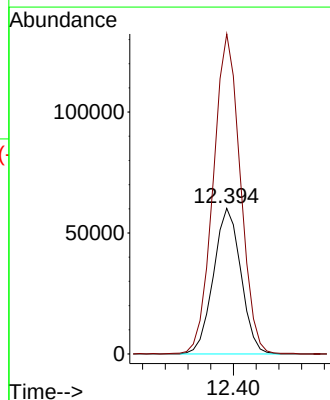
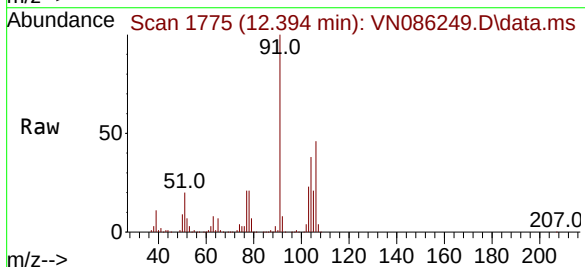
Manual Integrations
APPROVED

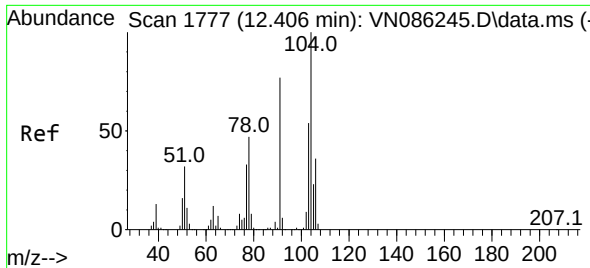
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 21.129 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

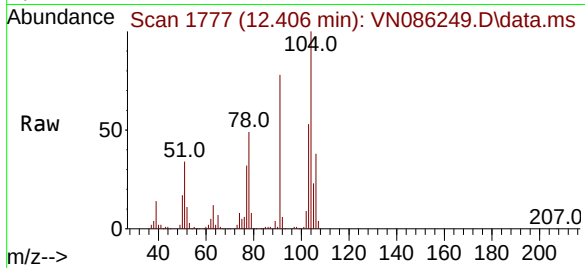
Tgt Ion:106 Resp: 100957
Ion Ratio Lower Upper
106 100
91 217.4 109.8 329.4





#69
Styrene
Concen: 20.929 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

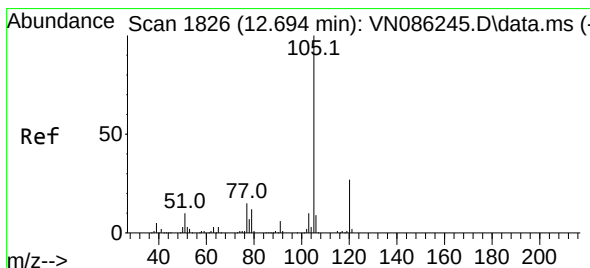
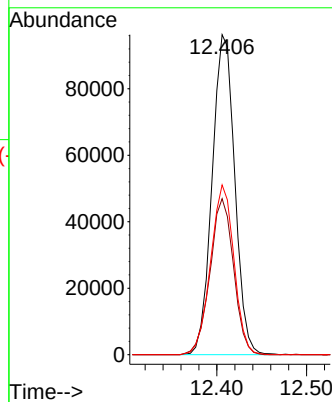
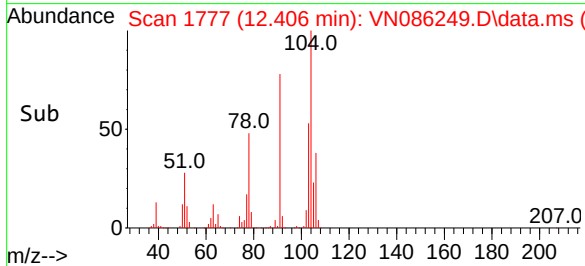
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:104 Resp: 168658
Ion Ratio Lower Upper
104 100
78 50.7 41.4 62.0
103 54.8 44.2 66.4

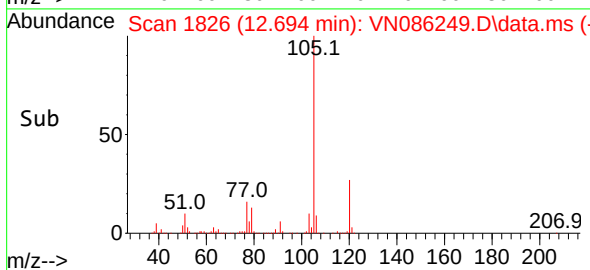
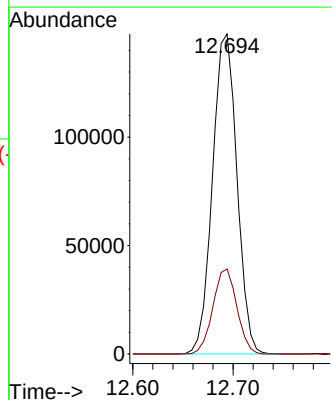
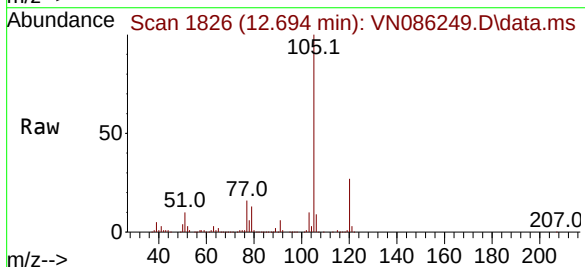
Manual Integrations
APPROVED

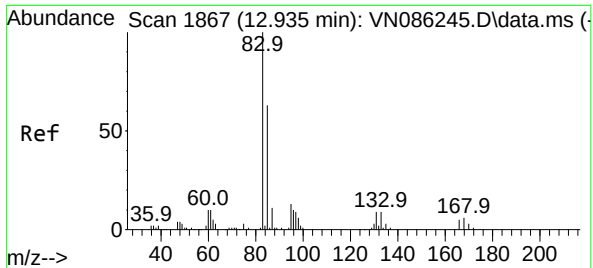
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 21.200 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

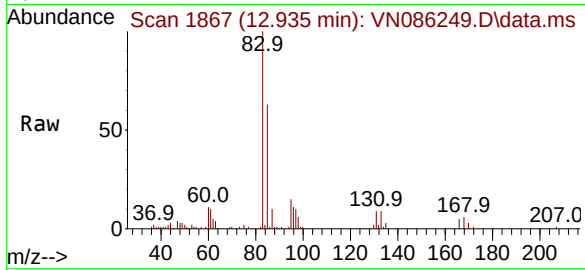
Tgt Ion:105 Resp: 249762
Ion Ratio Lower Upper
105 100
120 26.0 18.3 34.1





#71
1,1,2,2-Tetrachloroethane
Concen: 20.801 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

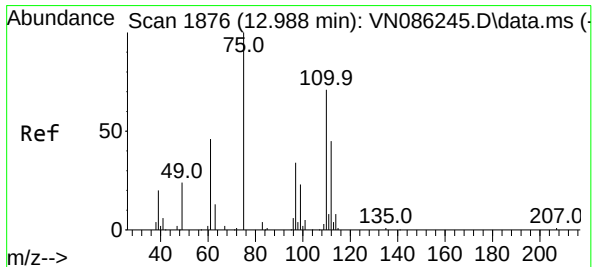
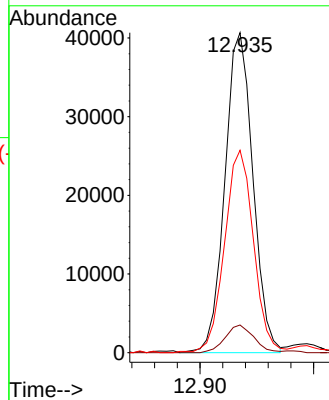
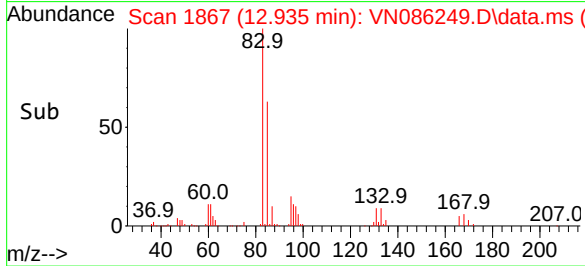
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 83 Resp: 6975
Ion Ratio Lower Upper
83 100
131 8.9 4.8 14.3
85 65.3 32.3 96.8

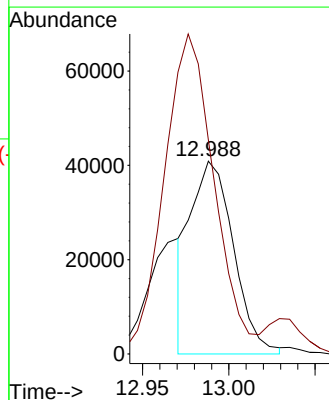
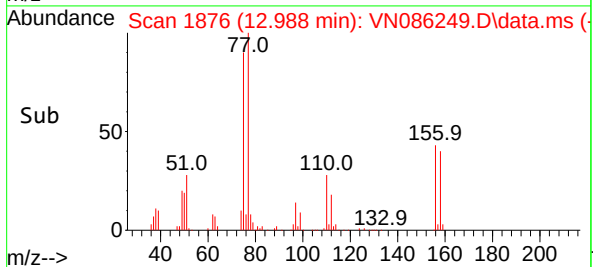
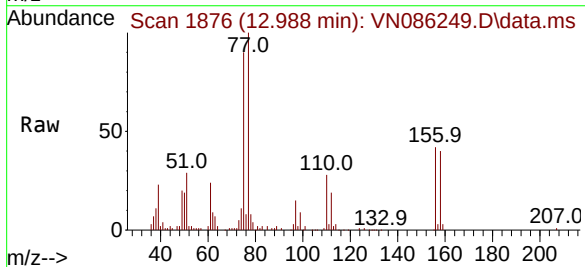
Manual Integrations
APPROVED

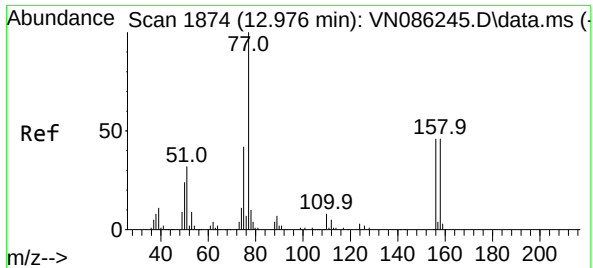
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 20.279 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 75 Resp: 70785
Ion Ratio Lower Upper
75 100
77 194.0 0.0 380.0





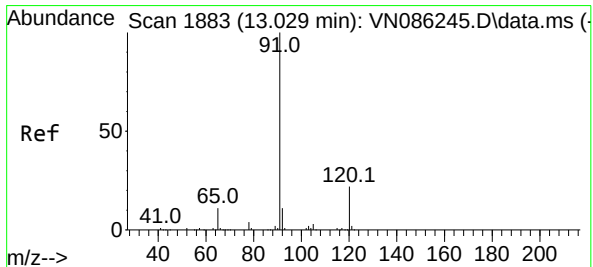
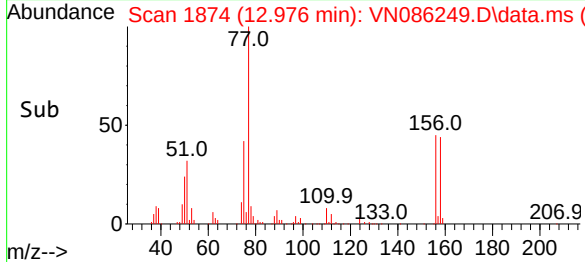
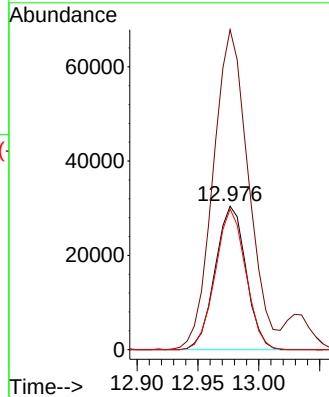
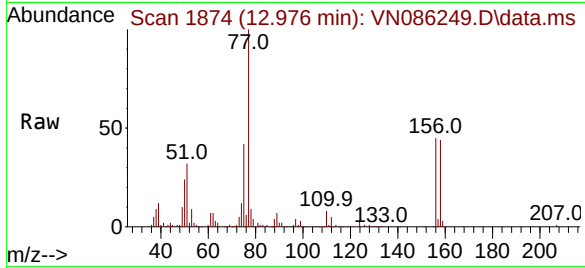
#73
Bromobenzene
Concen: 20.572 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	255.8	0.0	505.2
158	96.7	0.0	195.0

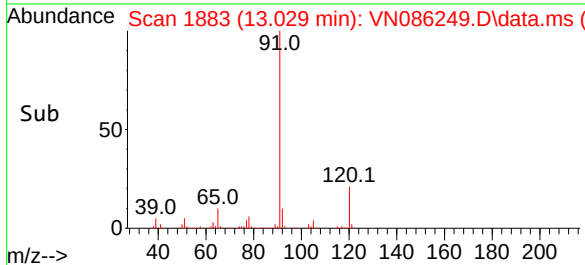
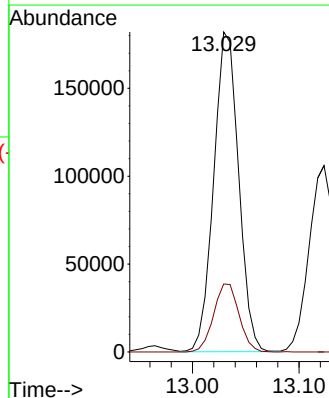
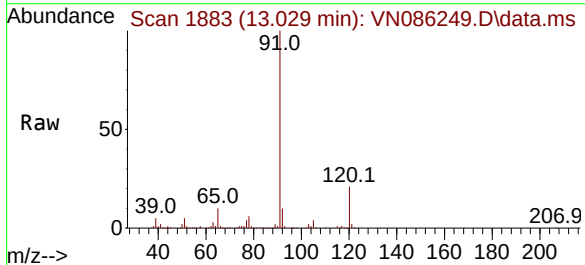
Manual Integrations
APPROVED

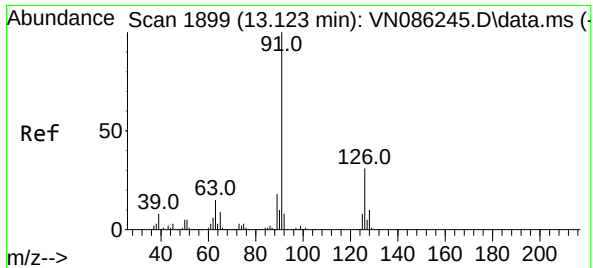
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 21.231 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	0.0	44.0





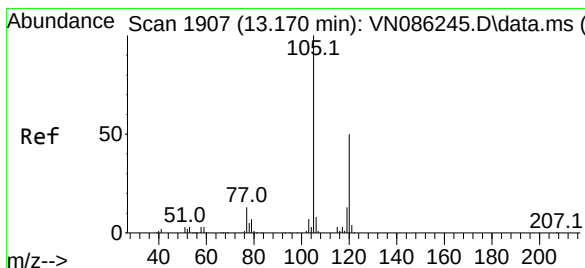
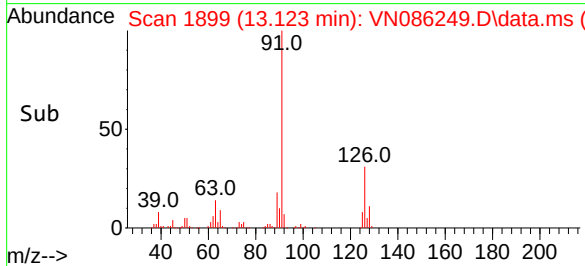
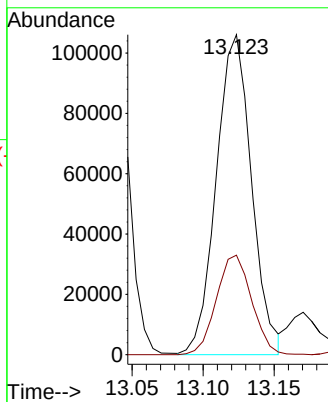
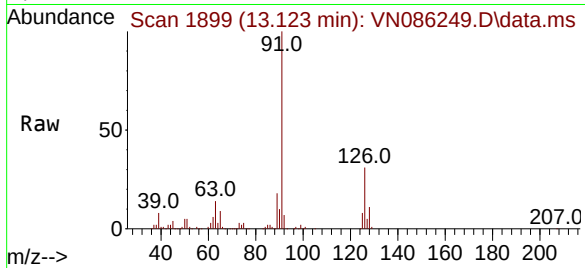
#75
2-Chlorotoluene
Concen: 20.961 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion: 91 Resp: 18328
Ion Ratio Lower Upper
91 100
126 31.0 0.0 63.4

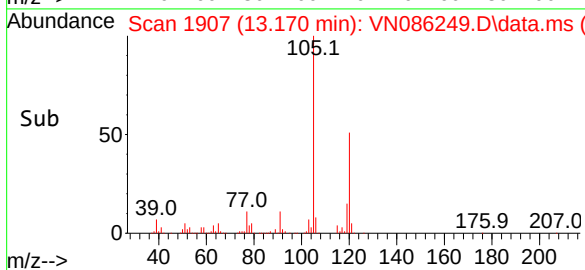
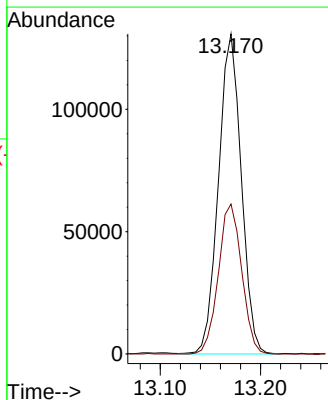
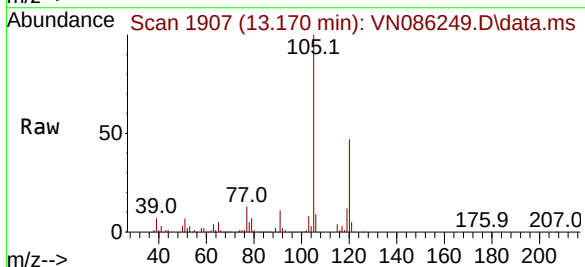
Manual Integrations
APPROVED

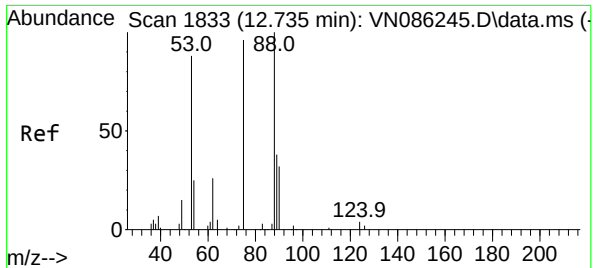
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 21.352 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

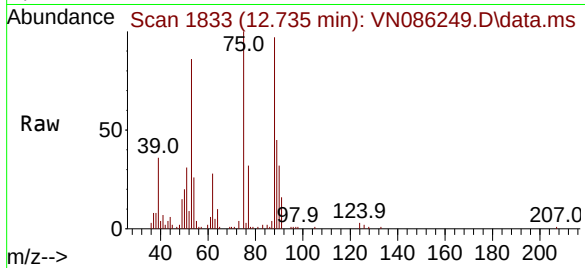
Tgt Ion:105 Resp: 206643
Ion Ratio Lower Upper
105 100
120 47.8 0.0 98.0





#77
t-1,4-Dichloro-2-butene
Concen: 19.426 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

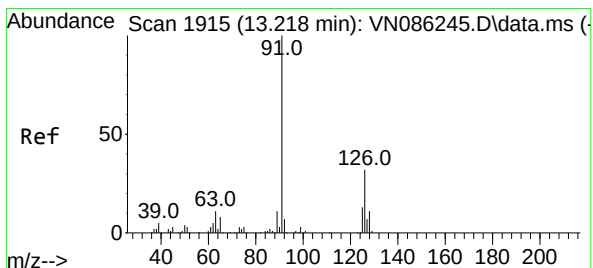
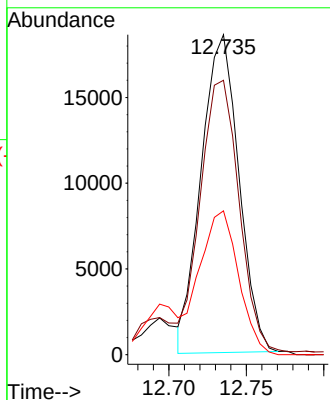
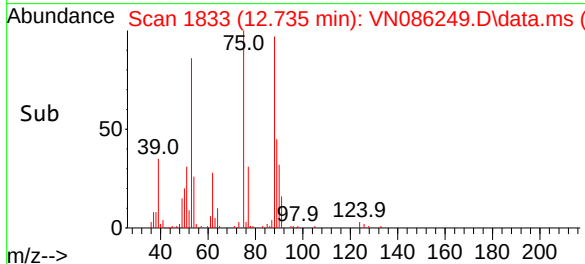
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion: 75 Resp: 31260
Ion Ratio Lower Upper
75 100
53 85.1 46.4 139.2
89 45.4 22.5 67.5

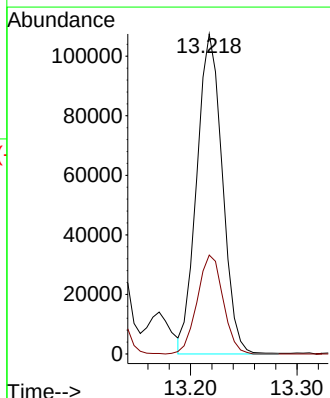
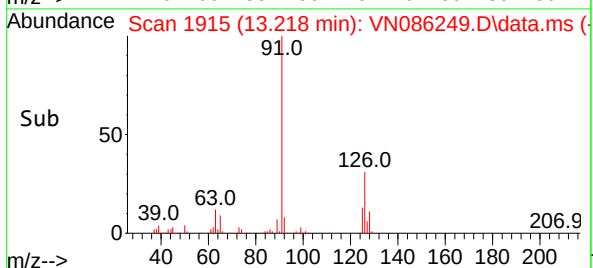
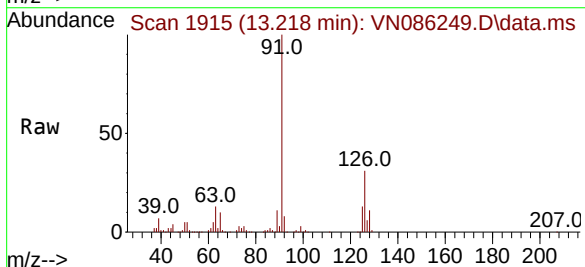
Manual Integrations
APPROVED

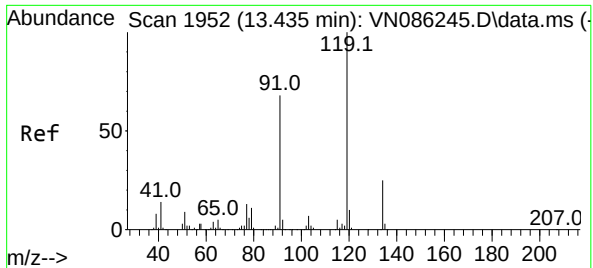
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 20.589 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 91 Resp: 179801
Ion Ratio Lower Upper
91 100
126 31.2 0.0 63.2





#79

tert-butylbenzene

Concen: 20.714 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion:119 Resp: 173459

Ion Ratio Lower Upper

119 100

91 67.9 0.0 136.6

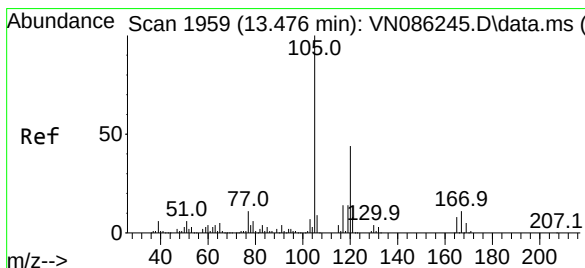
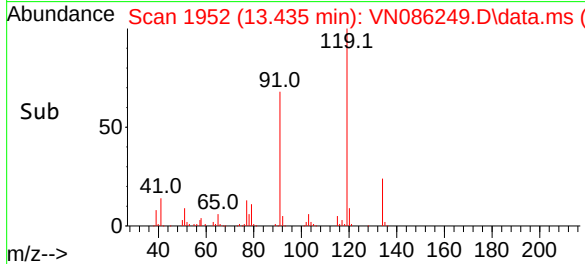
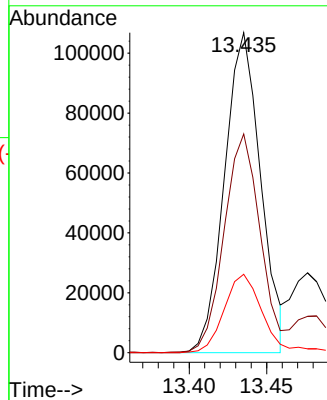
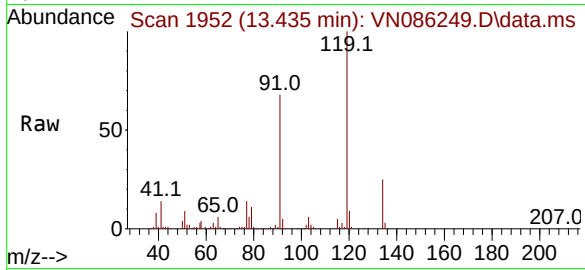
134 26.2 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 20.782 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086249.D

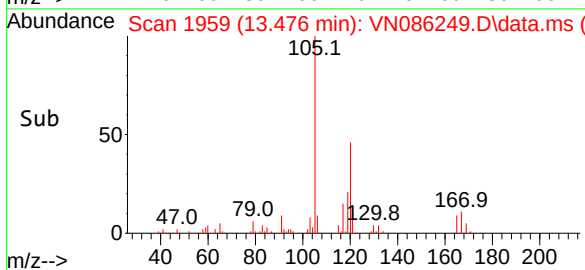
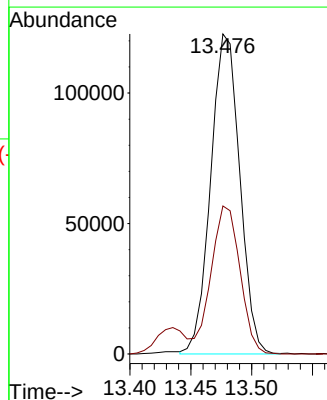
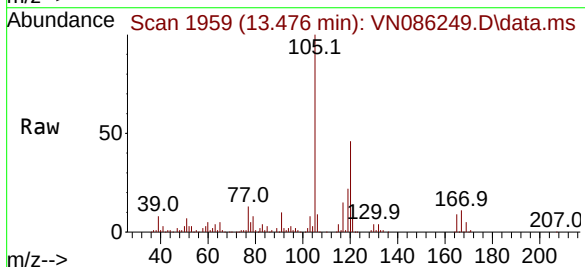
Acq: 11 Apr 2025 14:38

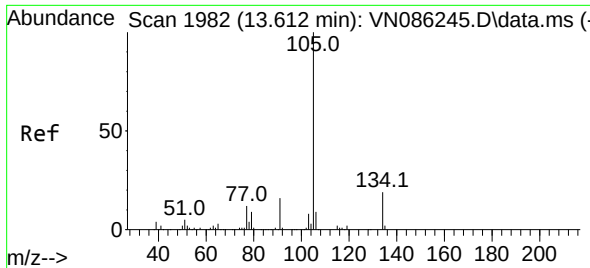
Tgt Ion:105 Resp: 203945

Ion Ratio Lower Upper

105 100

120 46.4 0.0 91.0





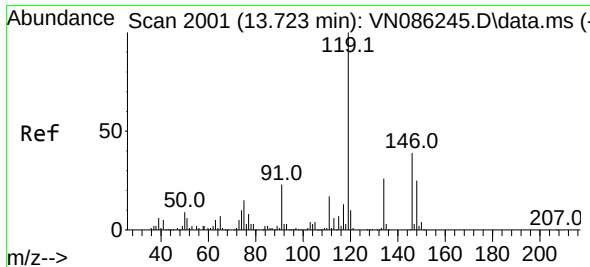
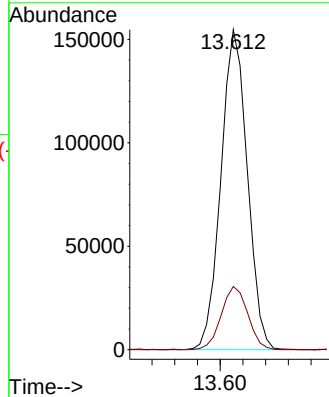
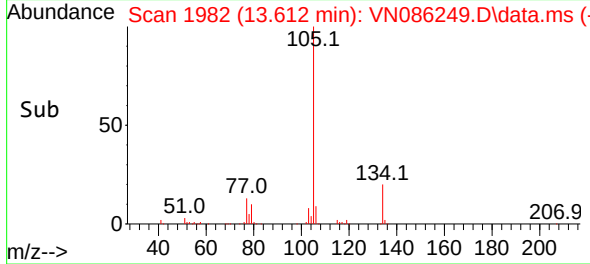
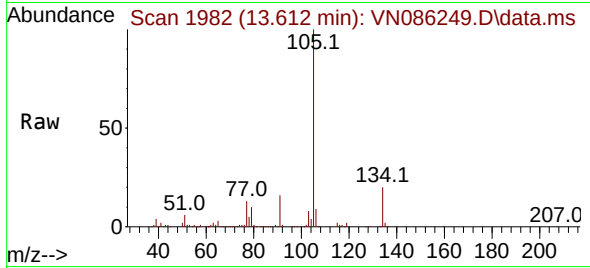
#81
sec-Butylbenzene
Concen: 21.354 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion:105 Resp: 24944
Ion Ratio Lower Upper
105 100
134 19.8 0.0 38.6

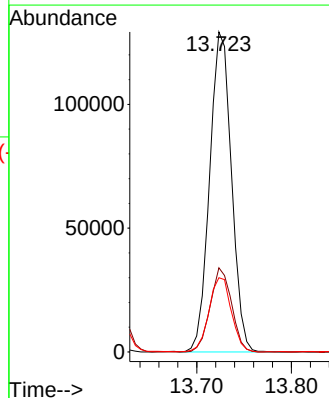
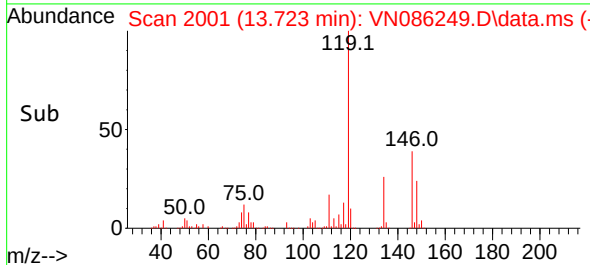
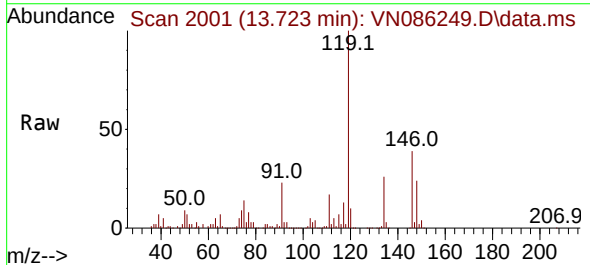
Manual Integrations
APPROVED

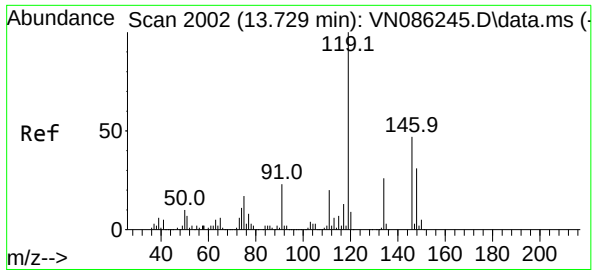
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 21.296 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

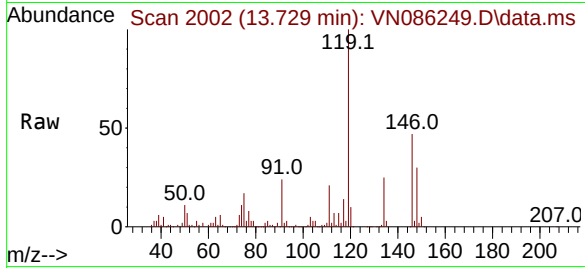
Tgt Ion:119 Resp: 207519
Ion Ratio Lower Upper
119 100
134 25.7 0.0 51.6
91 23.9 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 20.374 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

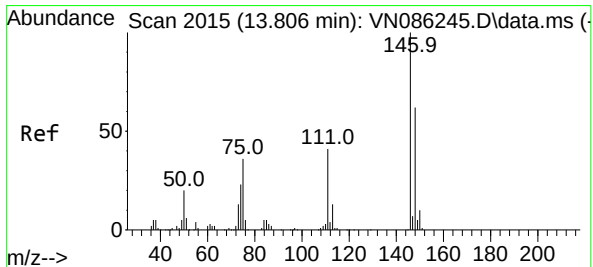
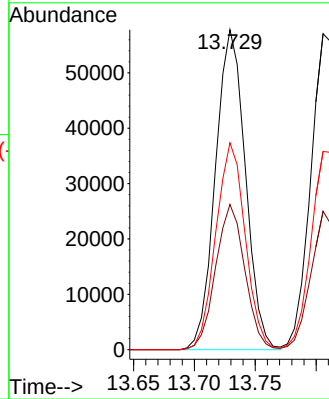
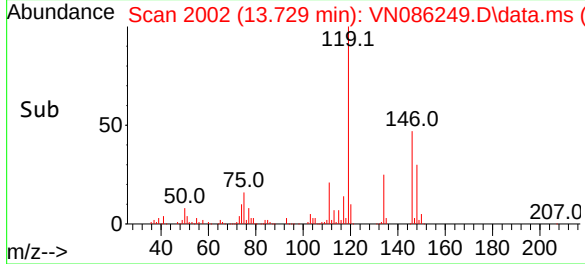
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:146 Resp: 98830
Ion Ratio Lower Upper
146 100
111 44.4 21.7 65.1
148 63.5 32.3 96.8

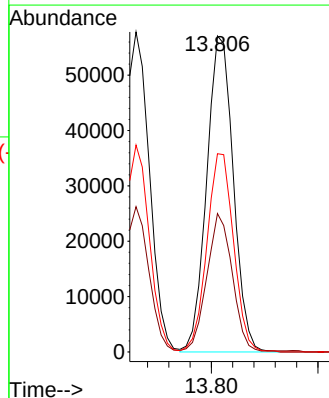
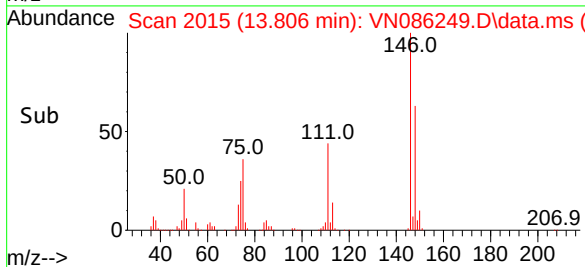
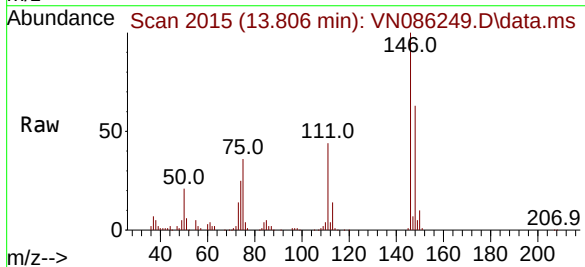
Manual Integrations
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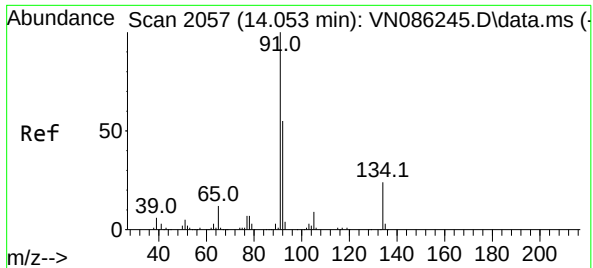
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#84
1,4-Dichlorobenzene
Concen: 20.383 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:146 Resp: 99189
Ion Ratio Lower Upper
146 100
111 41.9 20.8 62.4
148 62.9 31.9 95.5





#85

n-Butylbenzene

Concen: 21.761 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion: 91 Resp: 191298

Ion Ratio Lower Upper

91 100

92 53.6 0.0 109.4

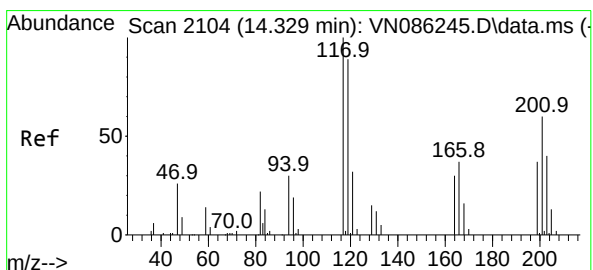
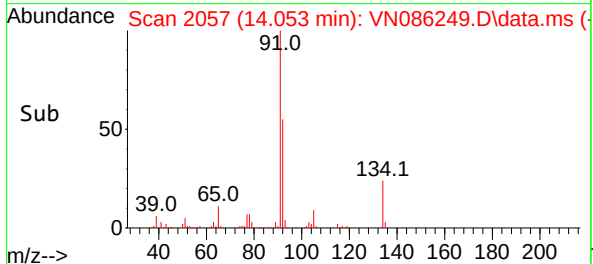
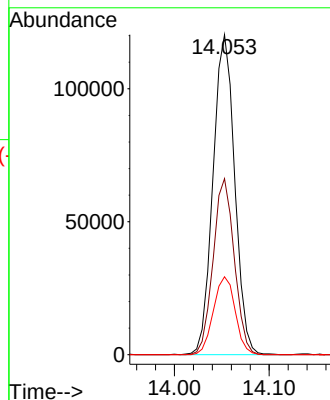
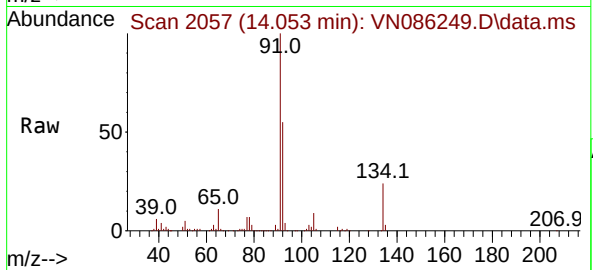
134 24.5 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 20.435 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086249.D

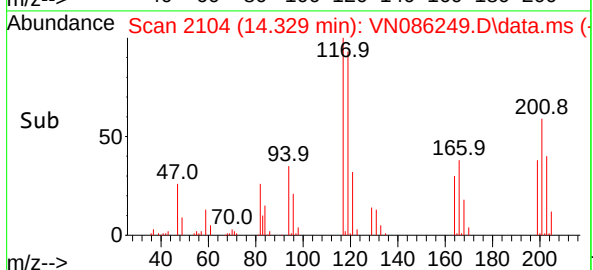
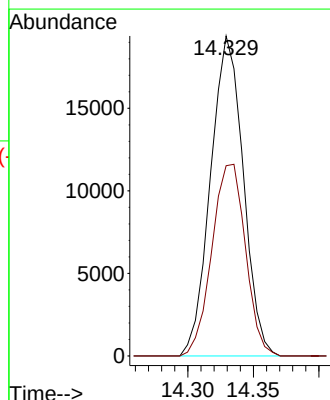
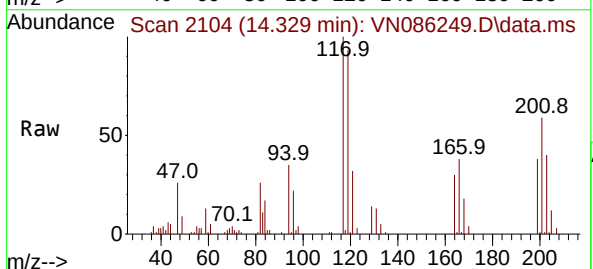
Acq: 11 Apr 2025 14:38

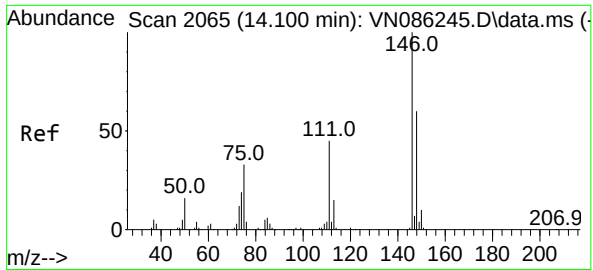
Tgt Ion:117 Resp: 33590

Ion Ratio Lower Upper

117 100

201 61.5 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 19.953 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

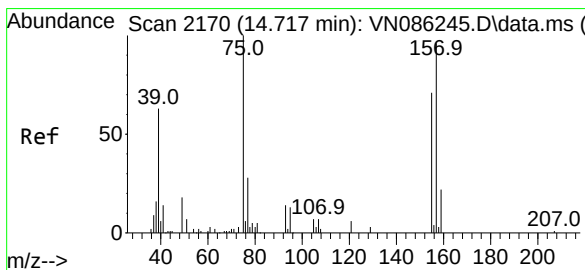
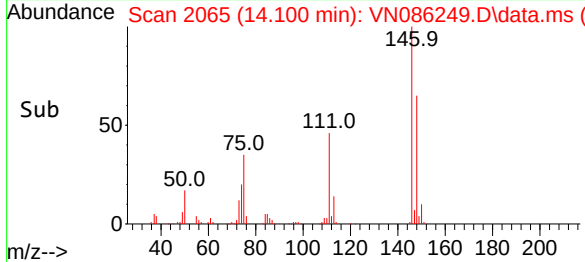
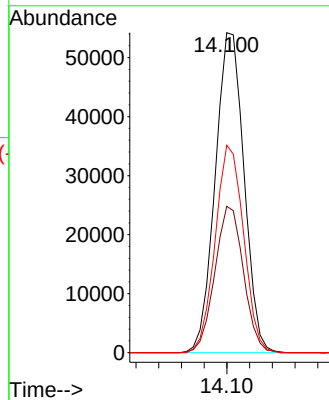
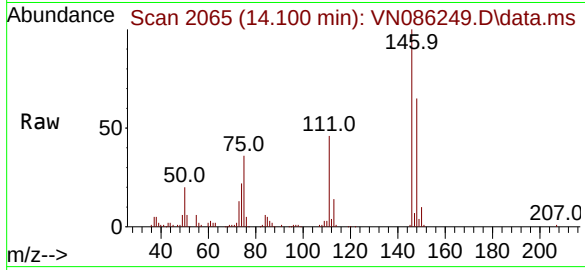
Tgt Ion:	146	Resp:	9556
Ion Ratio	Lower	Upper	
146	100		
111	45.5	22.7	68.0
148	64.0	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.539 ug/l

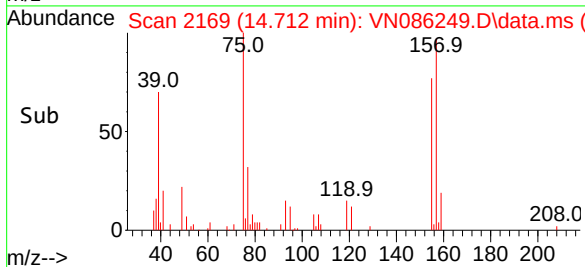
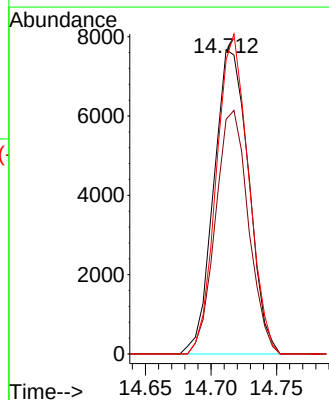
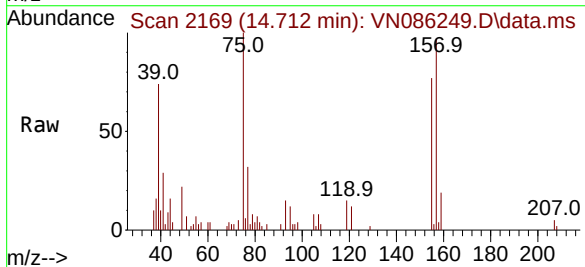
RT: 14.712 min Scan# 2169

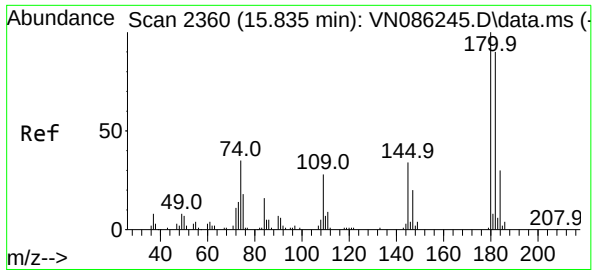
Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

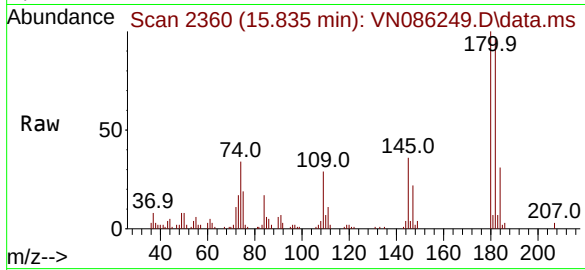
Tgt Ion:	75	Resp:	14160
Ion Ratio	Lower	Upper	
75	100		
155	75.9	60.3	90.5
157	97.1	79.0	118.4





#89
1,2,4-Trichlorobenzene
Concen: 19.736 ug/l
RT: 15.835 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

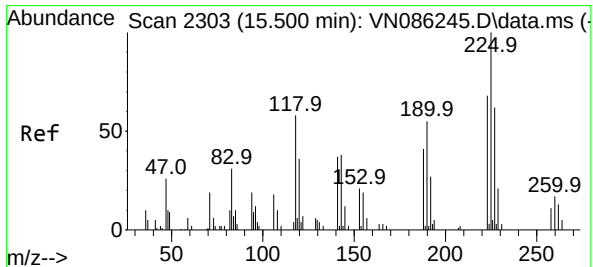
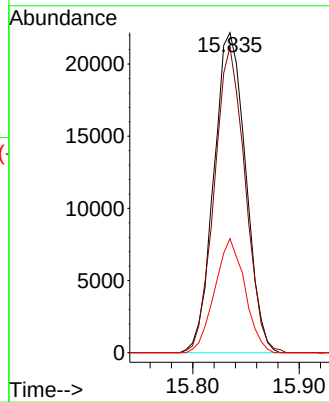
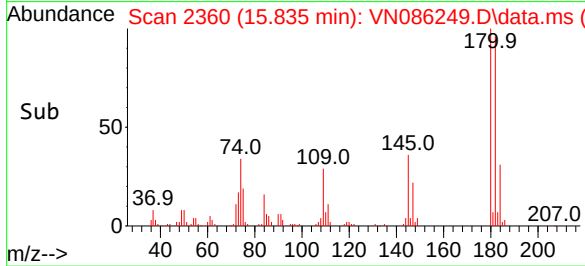
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:180 Resp: 4599
Ion Ratio Lower Upper
180 100
182 92.4 75.1 112.7
145 33.7 27.1 40.7

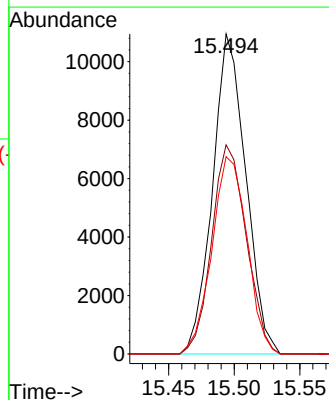
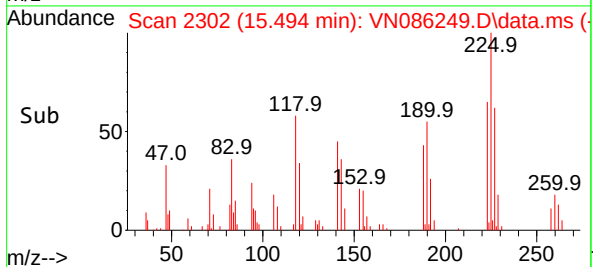
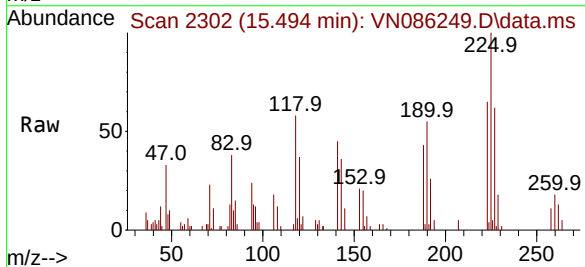
Manual Integrations
APPROVED

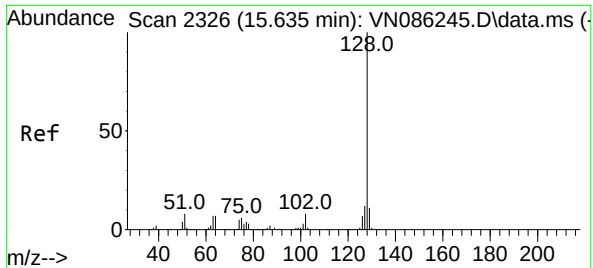
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#90
Hexachlorobutadiene
Concen: 19.154 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

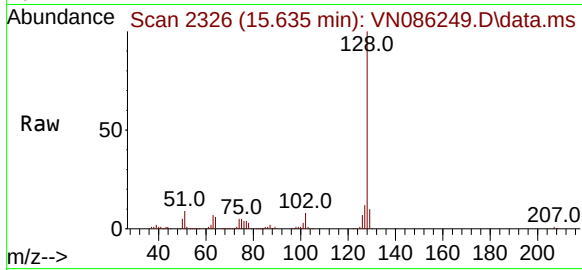
Tgt Ion:225 Resp: 19273
Ion Ratio Lower Upper
225 100
223 67.9 0.0 130.0
227 65.2 0.0 123.2





#91
Naphthalene
Concen: 18.449 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

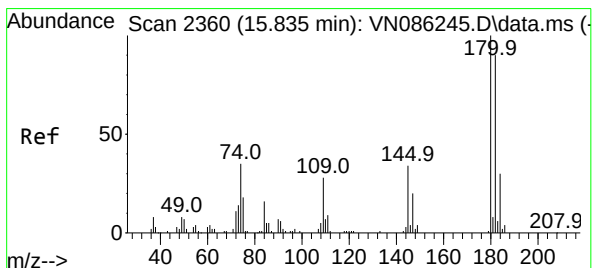
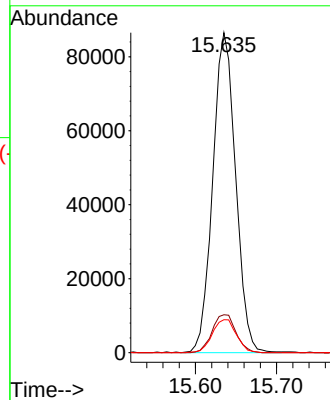
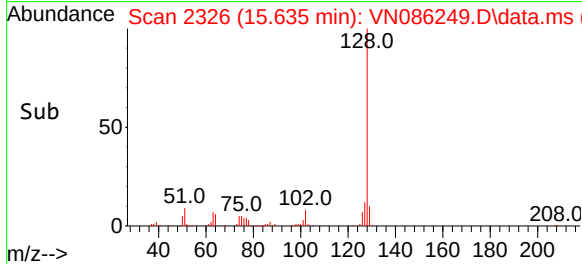
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01



Tgt Ion:128 Resp: 16951
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.9 8.8 13.2

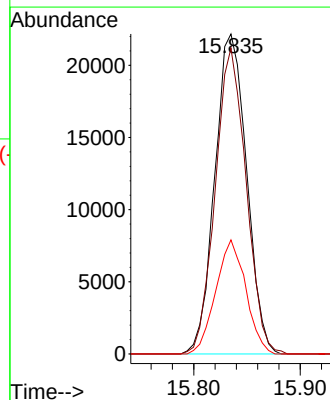
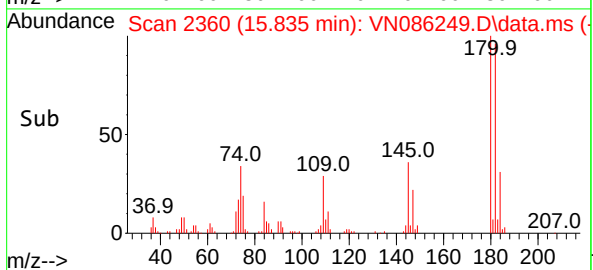
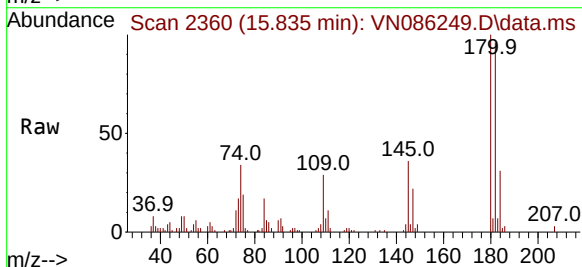
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 19.736 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:180 Resp: 45993
Ion Ratio Lower Upper
180 100
182 92.4 0.0 187.8
145 33.7 0.0 67.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0411WBSD01	SDG No.:	Q1774
Lab Sample ID:	VN0411WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086250.D	1		04/11/25 15:16	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.77	5.00	ug/L
74-87-3	Chloromethane	19.2		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	19.3		0.83	5.00	ug/L
74-83-9	Bromomethane	19.2		0.80	5.00	ug/L
75-00-3	Chloroethane	19.1		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.4		0.80	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		0.96	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.76	5.00	ug/L
107-02-8	Acrolein	97.7		6.60	25.0	ug/L
107-13-1	Acrylonitrile	100		2.80	25.0	ug/L
67-64-1	Acetone	100		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	19.0		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	21.1		0.77	5.00	ug/L
79-20-9	Methyl Acetate	20.9		0.91	5.00	ug/L
75-09-2	Methylene Chloride	19.9		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.68	5.00	ug/L
110-82-7	Cyclohexane	19.3		0.92	5.00	ug/L
78-93-3	2-Butanone	110		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.6		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	20.6		0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.7		0.80	5.00	ug/L
67-66-3	Chloroform	19.9		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.63	5.00	ug/L
108-87-2	Methylcyclohexane	20.1		0.73	5.00	ug/L
563-58-6	1,1-Dichloropropene	20.6		0.63	5.00	ug/L
71-43-2	Benzene	20.8		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.50	5.00	ug/L
79-01-6	Trichloroethene	20.5		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	21.4		0.46	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	CTO WE13			Date Received:	
Client Sample ID:	VN0411WBSD01			SDG No.:	Q1774
Lab Sample ID:	VN0411WBSD01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group4
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086250.D	1		04/11/25 15:16	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	21.2		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	21.2		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		3.00	25.0	ug/L
108-88-3	Toluene	20.7		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.4		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.4		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	21.9		0.44	5.00	ug/L
591-78-6	2-Hexanone	110		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	21.7		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	21.5		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.6		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	21.2		0.62	5.00	ug/L
67-72-1	Hexachloroethane	19.5		0.98	5.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	40.7		1.30	10.0	ug/L
95-47-6	o-Xylene	20.8		0.67	5.00	ug/L
100-42-5	Styrene	20.9		0.72	5.00	ug/L
75-25-2	Bromoform	20.8		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.6		0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	21.3		0.62	5.00	ug/L
108-86-1	Bromobenzene	20.7		0.59	5.00	ug/L
103-65-1	n-propylbenzene	20.3		0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	20.1		0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.5		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	20.0		0.62	5.00	ug/L
98-06-6	tert-butylbenzene	19.8		0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.5		0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	20.2		0.64	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0411WBSD01	SDG No.:	Q1774
Lab Sample ID:	VN0411WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086250.D	1		04/11/25 15:16	VN041125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	20.1		0.70	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.3		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.1		0.81	5.00	ug/L
104-51-8	n-Butylbenzene	20.3		0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.5		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	19.2		0.68	5.00	ug/L
91-20-3	Naphthalene	20.7		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.5		1.10	5.00	ug/L
74-88-4	Methyl Iodide	19.1		0.91	5.00	ug/L
80-62-6	Methyl methacrylate	21.1		0.71	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.2		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.8		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.6		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34700	7.812			
540-36-3	1,4-Difluorobenzene	203000	9.1			
3114-55-4	Chlorobenzene-d5	180000	11.859			

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\VN041125\
 Data File : VN086250.D
 Acq On : 11 Apr 2025 15:16
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:49:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34735	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	202525	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	180363	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	102343	30.208	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	12.847	95	106256	29.590	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.633%			
63) Toluene-d8	10.565	98	303469	29.803	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.333%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	56086	20.153	ug/l	92
3) Chloromethane	2.359	50	73828	19.194	ug/l	98
4) Vinyl Chloride	2.518	62	70644	19.281	ug/l	93
5) Bromomethane	2.965	94	35079	19.194	ug/l	100
6) Chloroethane	3.124	64	44166	19.089	ug/l	96
7) Trichlorofluoromethane	3.500	101	77277	19.443	ug/l	96
8) Diethyl Ether	3.959	74	38725	21.128	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	48170	19.655	ug/l	98
10) 1,1-Dichloroethene	4.341	96	50453	19.075	ug/l	98
11) Methyl Iodide	4.589	142	58142	19.126	ug/l	99
12) Methyl Acetate	5.018	43	77938	20.867	ug/l	99
13) Acrolein	4.177	56	41459	97.652	ug/l	95
14) Acrylonitrile	5.718	53	157824	100.092	ug/l	98
15) Acetone	4.424	58	40914	102.336	ug/l	90
16) Carbon Disulfide	4.712	76	144392	19.038	ug/l	98
17) Allyl chloride	5.018	41	93530	20.289	ug/l	96
18) Methylene Chloride	5.271	84	60034	19.908	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	52359	18.794	ug/l	97
20) Diisopropyl ether	6.671	45	208832	21.072	ug/l	97
21) 1,1-Dichloroethane	6.565	63	106033	20.053	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	65216	19.651	ug/l	99
23) tert-Butyl Alcohol	5.512	59	63490	97.177	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	201155	21.074	ug/l	98
25) Chloroform	7.965	83	100265	19.885	ug/l	96
26) Cyclohexane	8.253	56	95525	19.310	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	74865	20.635	ug/l	98
30) 2-Butanone	7.477	43	214454	106.676	ug/l	100
31) 2,2-Dichloropropane	7.488	77	92014	20.604	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	84856	20.333	ug/l	99
33) Carbon Tetrachloride	8.359	117	68854	20.645	ug/l	98
34) Benzene	8.606	78	240477	20.834	ug/l	97
35) Methacrylonitrile	7.777	41	48115	21.230	ug/l	97
36) 1,2-Dichloroethane	8.671	62	77436	21.439	ug/l	99
37) Trichloroethene	9.347	130	57010	20.471	ug/l	97
38) Methylcyclohexane	9.600	83	89548	20.125	ug/l	99
39) 1,2-Dichloropropane	9.618	63	61439	21.392	ug/l	96
40) Dibromomethane	9.706	93	39298	21.185	ug/l	99
41) Bromodichloromethane	9.888	83	84468	21.197	ug/l	98
42) Vinyl Acetate	6.600	43	753748	110.147	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086250.D
 Acq On : 11 Apr 2025 15:16
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:49:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	84905	20.939	ug/l	95
44) Isopropyl Acetate	8.682	43	160910	21.391	ug/l	99
45) 1,4-Dioxane	9.688	88	23420	391.526	ug/l #	91
46) Methyl methacrylate	9.676	41	69895	21.088	ug/l	96
47) n-amyl Acetate	12.488	43	126575	21.222	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	96458	21.411	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	102066	21.406	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	56096	21.561	ug/l	97
51) Ethyl methacrylate	10.870	69	105140	21.747	ug/l	97
52) 1,3-Dichloropropane	11.159	76	101323	21.850	ug/l	100
53) Dibromochloromethane	11.359	129	61771	21.706	ug/l	98
54) 1,2-Dibromoethane	11.465	107	56526	21.523	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	254446	139.276	ug/l	99
56) Bromoform	12.576	173	38804	20.842	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	446372	109.058	ug/l	99
59) 2-Hexanone	11.194	43	321747	105.569	ug/l	100
61) Tetrachloroethene	11.100	164	53974	20.264	ug/l	97
62) Toluene	10.629	91	250492	20.706	ug/l	100
64) Chlorobenzene	11.888	112	152512	20.635	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	51756	21.219	ug/l	99
66) Ethyl Benzene	11.959	91	271487	20.236	ug/l	96
67) m/p-Xylenes	12.070	106	203138	40.720	ug/l	100
68) o-Xylene	12.394	106	102269	20.842	ug/l	97
69) Styrene	12.406	104	172721	20.872	ug/l	98
70) Isopropylbenzene	12.694	105	247015	20.417	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	74426	21.612	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	76312m	21.289	ug/l	
73) Bromobenzene	12.976	156	55372	20.660	ug/l	97
74) n-propylbenzene	13.035	91	290430	20.330	ug/l	99
75) 2-Chlorotoluene	13.123	91	180253	20.074	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	203242	20.450	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	33778	20.436	ug/l	92
78) 4-Chlorotoluene	13.217	91	179336	19.997	ug/l	99
79) tert-butylbenzene	13.435	119	170326	19.806	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	206236	20.464	ug/l	98
81) sec-Butylbenzene	13.611	105	242336	20.202	ug/l	100
82) p-Isopropyltoluene	13.723	119	201123	20.098	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	101287	20.332	ug/l	98
84) 1,4-Dichlorobenzene	13.811	146	100671	20.144	ug/l	99
85) n-Butylbenzene	14.053	91	183068	20.279	ug/l	99
86) Hexachloroethane	14.329	117	32907	19.494	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	100901	20.514	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16110	20.539	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	48993	20.472	ug/l	99
90) Hexachlorobutadiene	15.494	225	19853	19.213	ug/l	99
91) Naphthalene	15.635	128	194900	20.655	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	48993	20.472	ug/l	99

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

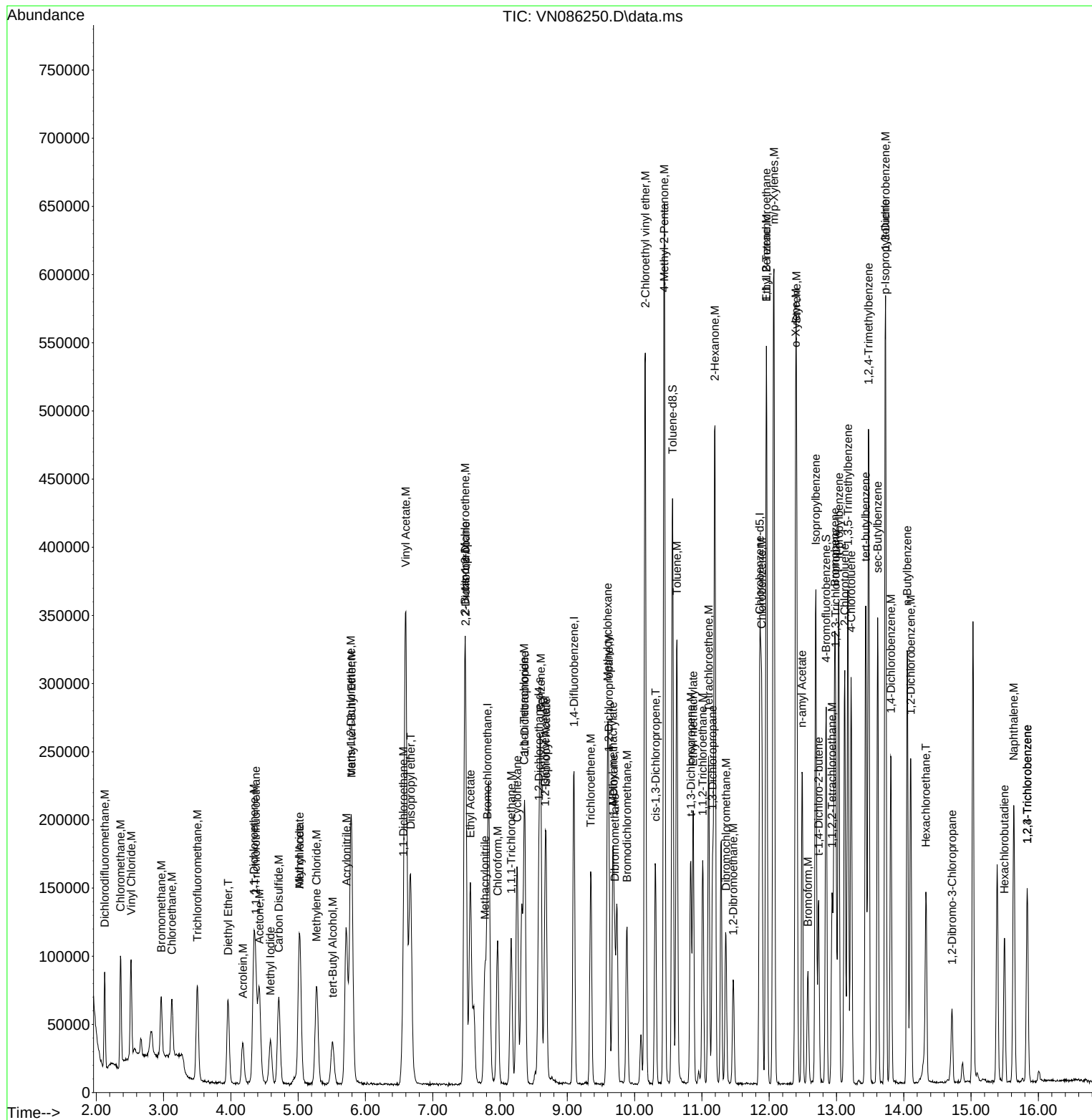
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 Data File : VN086250.D
 Acq On : 11 Apr 2025 15:16
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

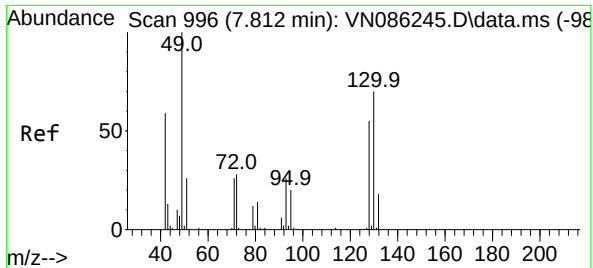
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

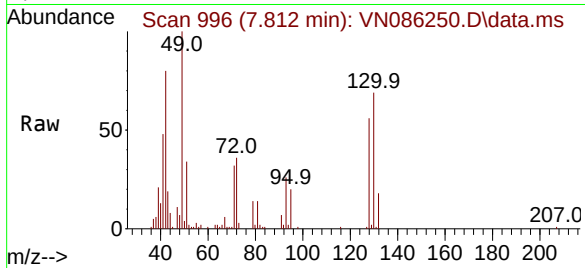
Quant Time: Apr 12 01:49:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

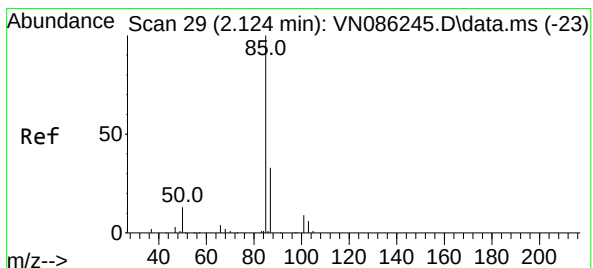
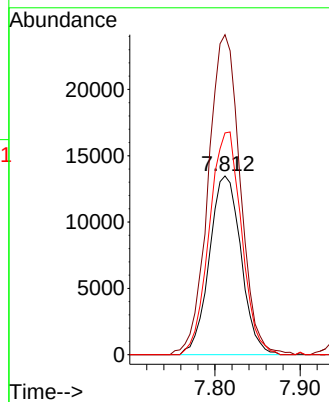
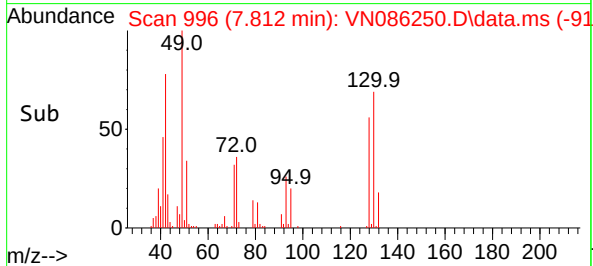
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:128 Resp: 3473
Ion Ratio Lower Upper
128 100
49 181.2 0.0 452.5
130 127.0 0.0 315.0

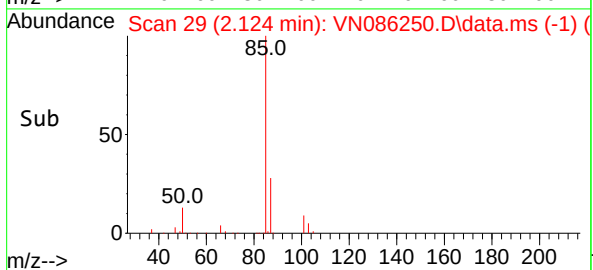
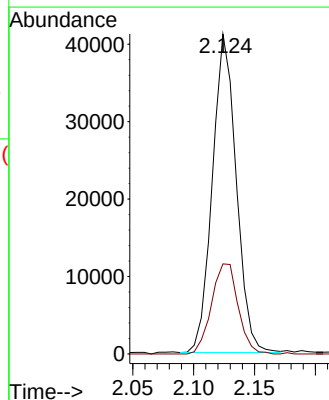
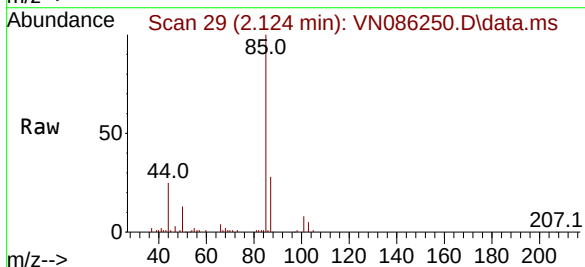
Manual Integrations
APPROVED

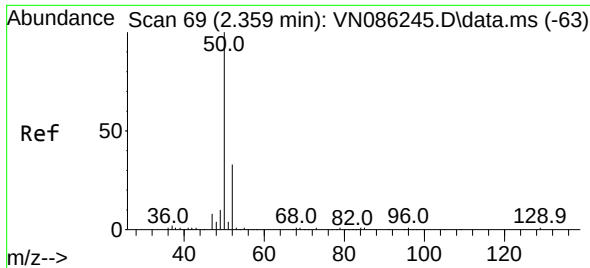
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 20.153 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

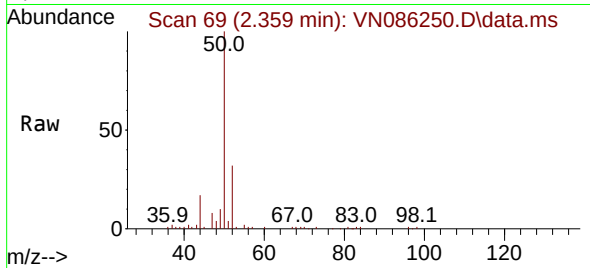
Tgt Ion: 85 Resp: 56086
Ion Ratio Lower Upper
85 100
87 28.3 16.3 48.9





#3
Chloromethane
Concen: 19.194 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

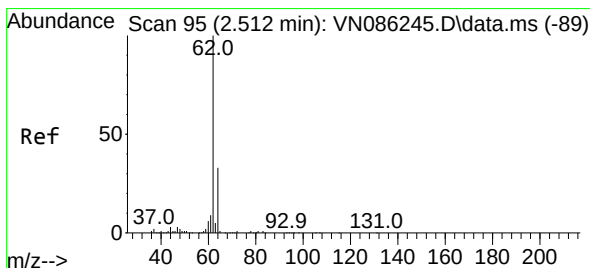
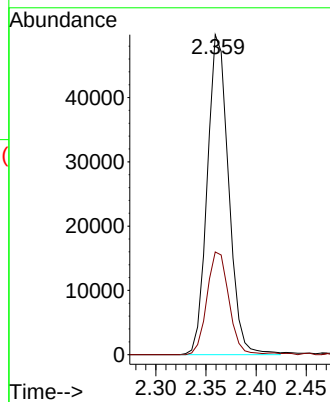
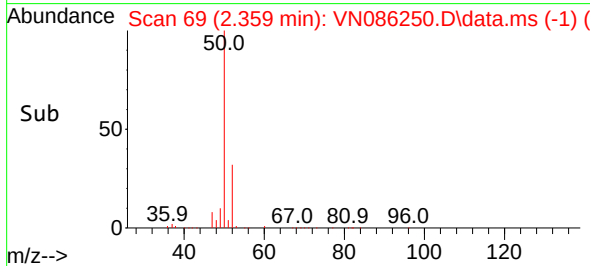
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 50 Resp: 73828
Ion Ratio Lower Upper
50 100
52 32.1 26.4 39.6

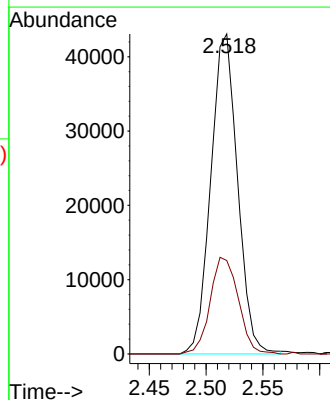
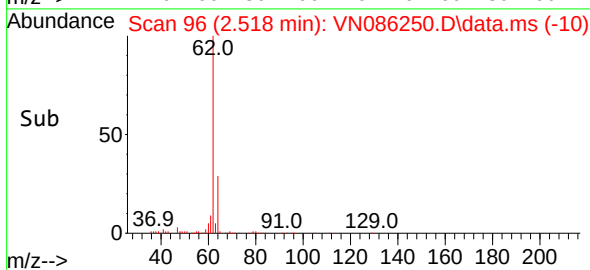
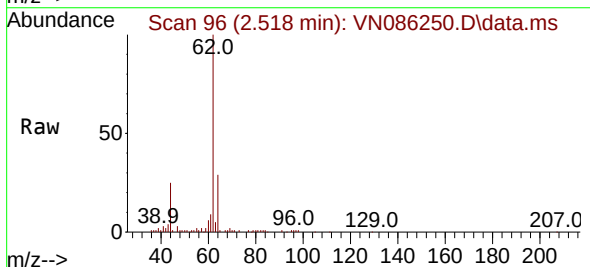
Manual Integrations
APPROVED

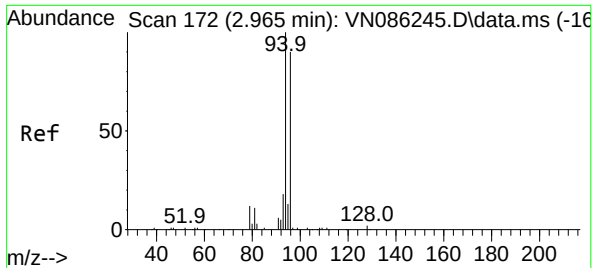
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 19.281 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 62 Resp: 70644
Ion Ratio Lower Upper
62 100
64 29.2 26.3 39.5





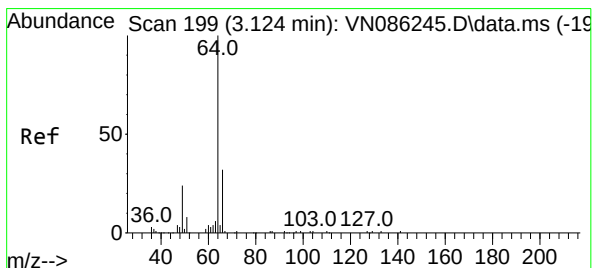
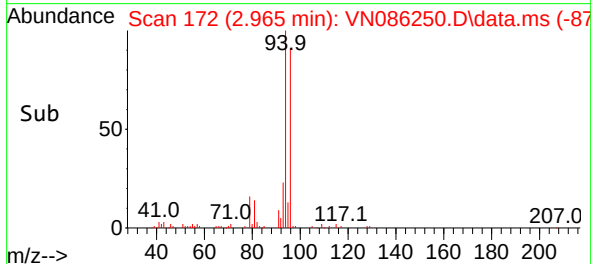
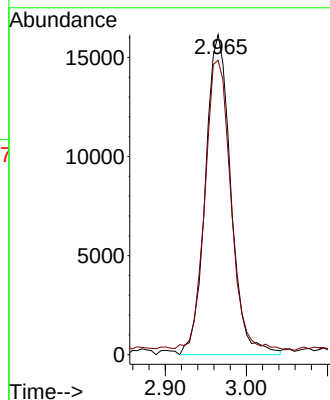
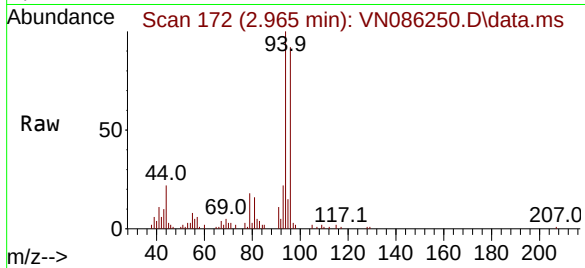
#5
Bromomethane
Concen: 19.194 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion: 94 Resp: 35079
Ion Ratio Lower Upper
94 100
96 90.0 72.2 108.2

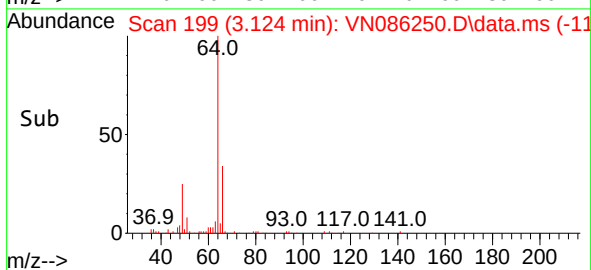
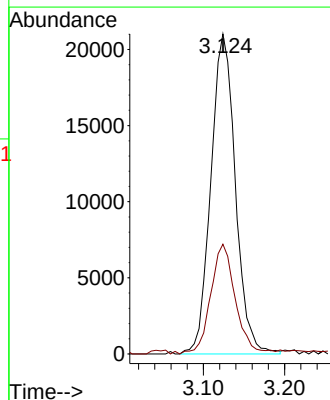
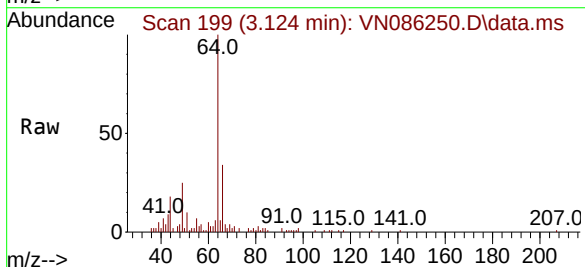
Manual Integrations
APPROVED

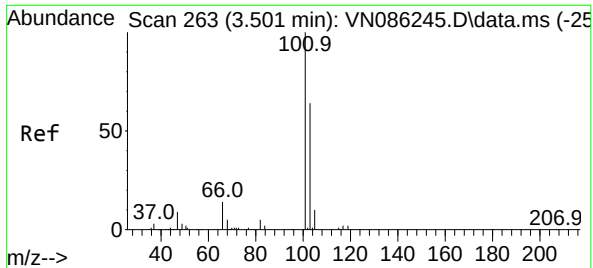
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#6
Chloroethane
Concen: 19.089 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

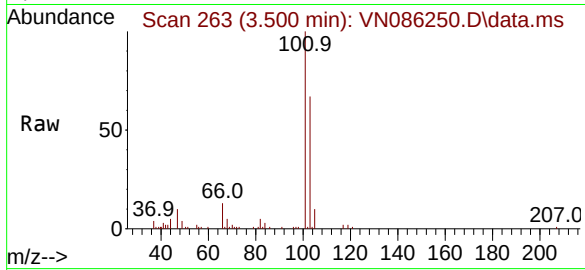
Tgt Ion: 64 Resp: 44166
Ion Ratio Lower Upper
64 100
66 34.3 25.7 38.5





#7
Trichlorofluoromethane
Concen: 19.443 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

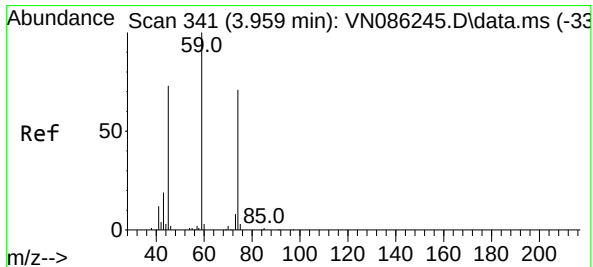
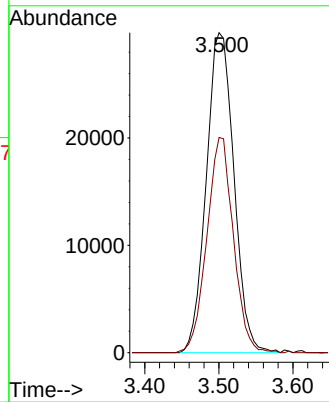
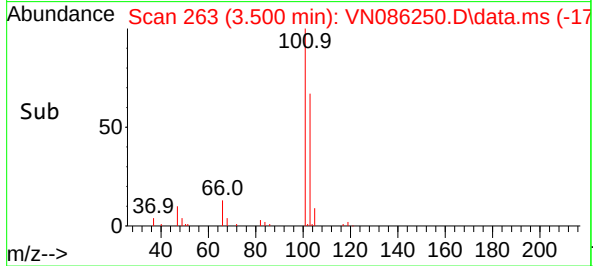
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 101 Resp: 7727
Ion Ratio Lower Upper
101 100
103 67.2 51.2 76.8

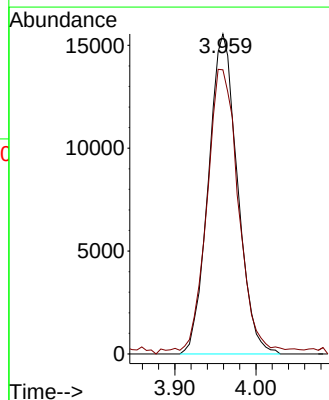
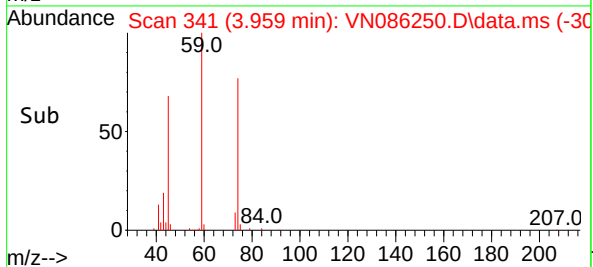
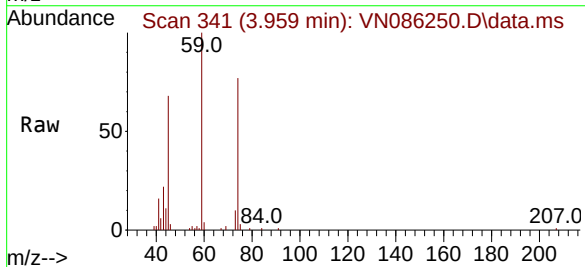
Manual Integrations
APPROVED

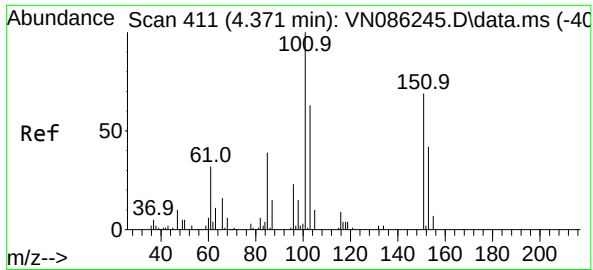
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 21.128 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 74 Resp: 38725
Ion Ratio Lower Upper
74 100
45 93.7 19.2 173.2





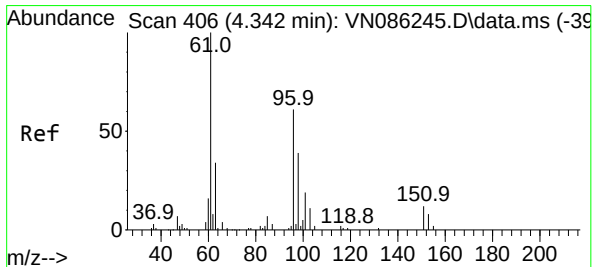
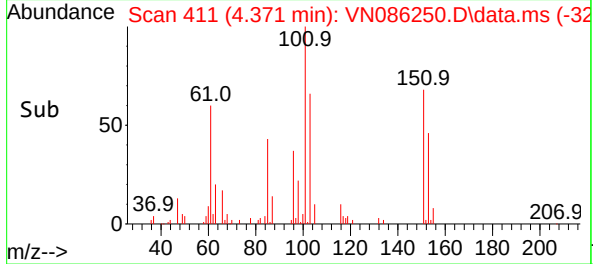
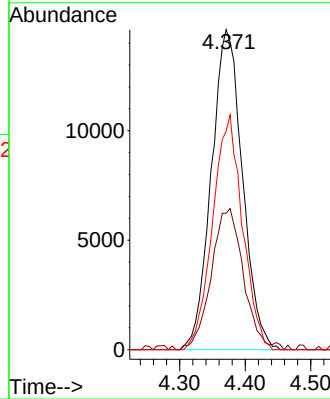
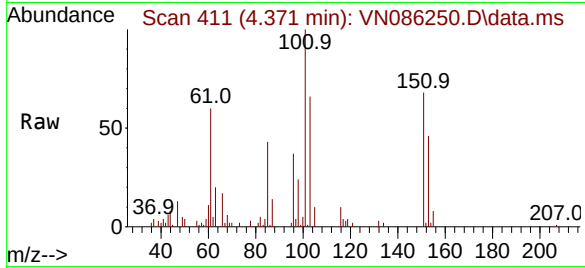
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.655 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion:101 Resp: 48170
Ion Ratio Lower Upper
101 100
85 45.2 0.0 93.0
151 70.3 0.0 138.6

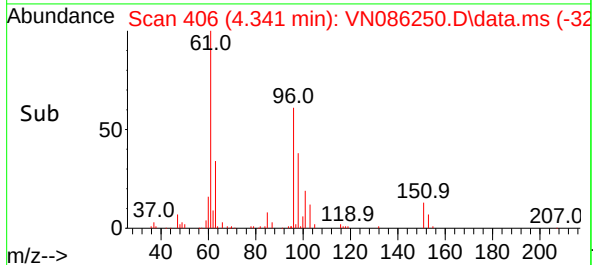
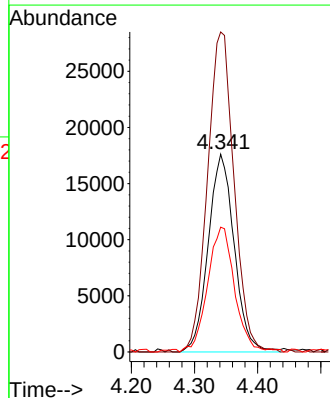
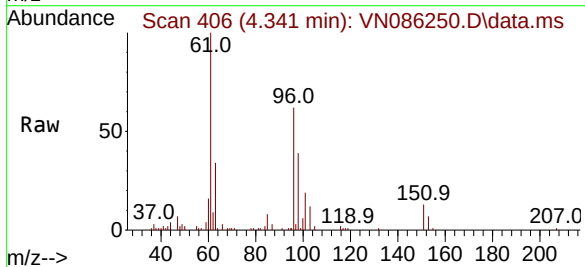
Manual Integrations
APPROVED

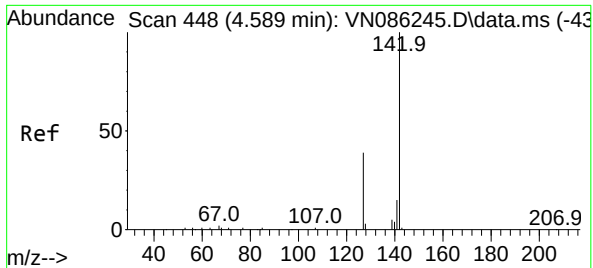
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 19.075 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

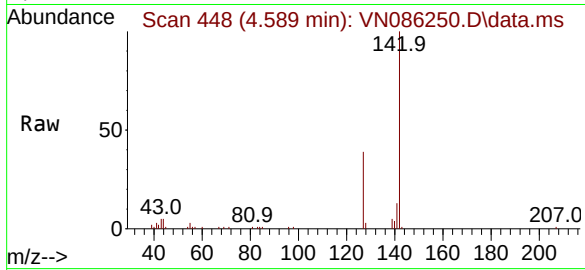
Tgt Ion: 96 Resp: 50453
Ion Ratio Lower Upper
96 100
61 161.8 131.1 196.7
98 63.1 51.6 77.4





#11
Methyl Iodide
Concen: 19.126 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

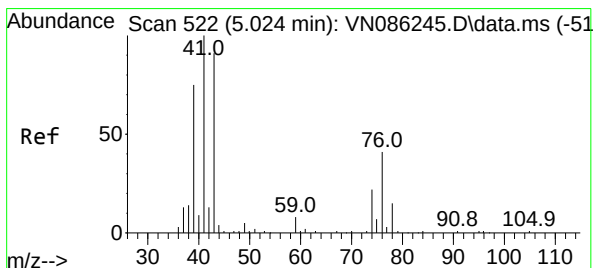
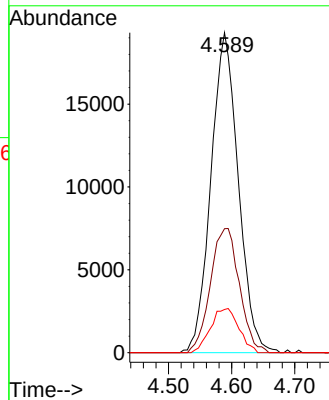
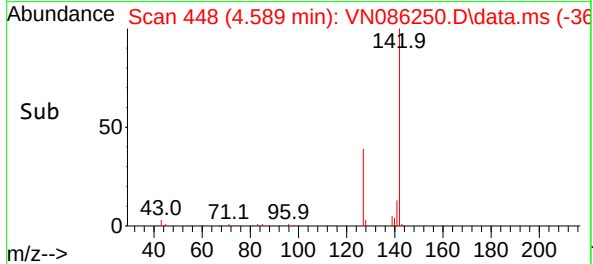
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:142 Resp: 5814
Ion Ratio Lower Upper
142 100
127 38.8 19.6 58.8
141 13.5 7.3 21.9

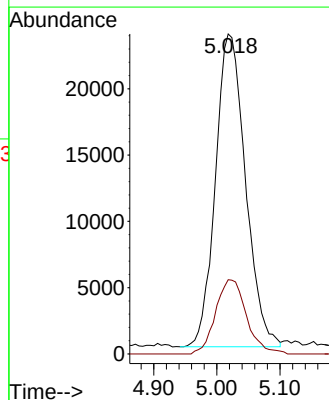
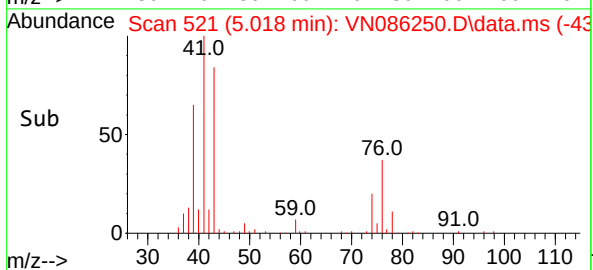
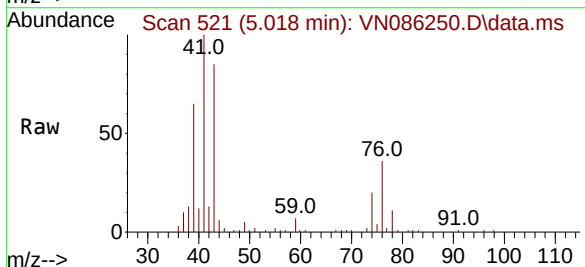
Manual Integrations
APPROVED

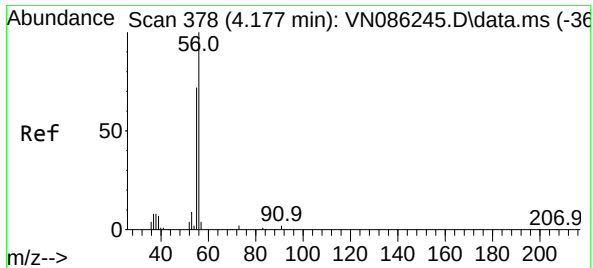
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#12
Methyl Acetate
Concen: 20.867 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 43 Resp: 77938
Ion Ratio Lower Upper
43 100
74 23.4 19.1 28.7





#13

Acrolein

Concen: 97.652 ug/l

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 56 Resp: 41458

Ion Ratio Lower Upper

56 100

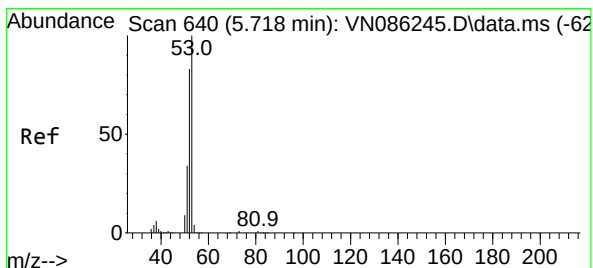
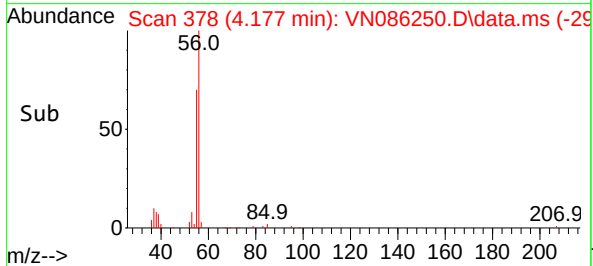
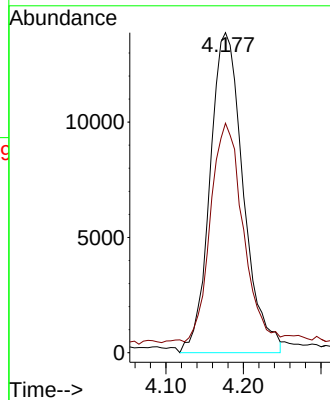
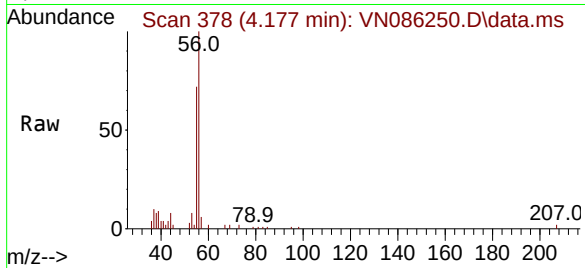
55 66.9 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 100.092 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

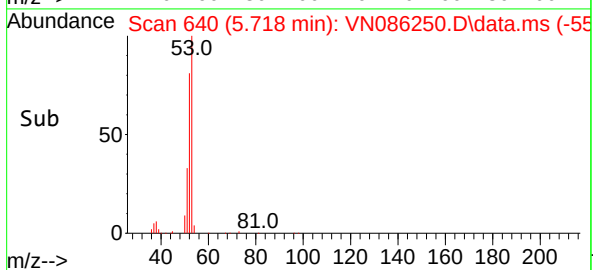
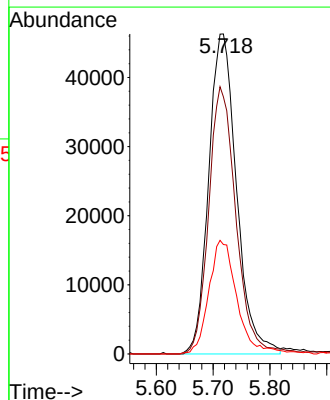
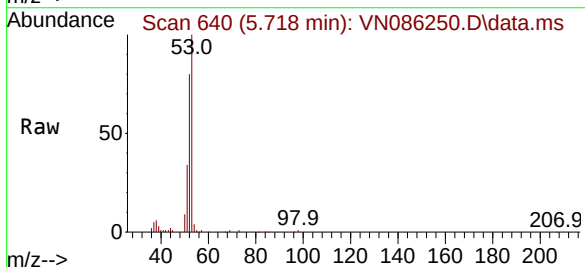
Tgt Ion: 53 Resp: 157824

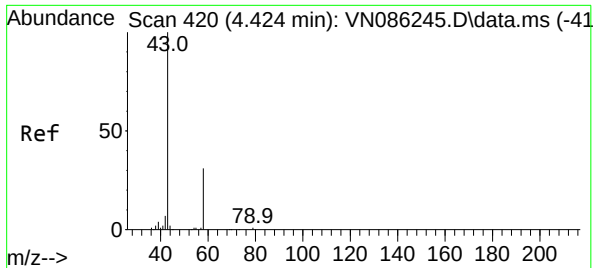
Ion Ratio Lower Upper

53 100

52 81.6 40.2 120.6

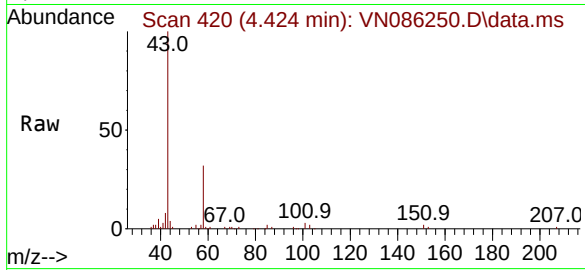
51 33.9 17.5 52.6





#15
Acetone
Concen: 102.336 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

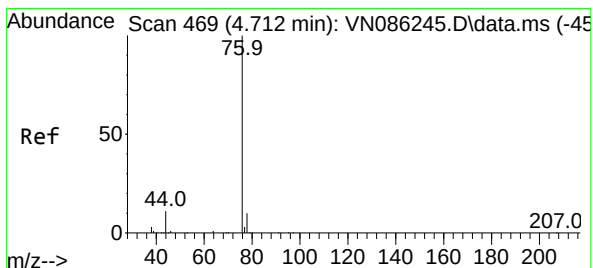
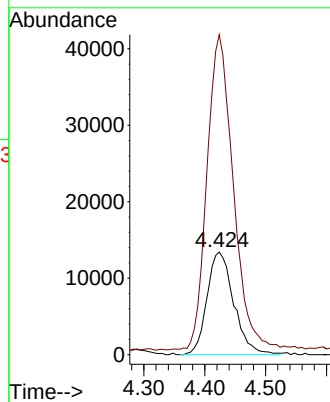
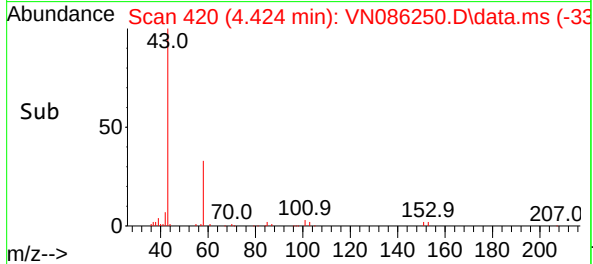
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 58 Resp: 40914
Ion Ratio Lower Upper
58 100
43 306.6 261.8 392.8

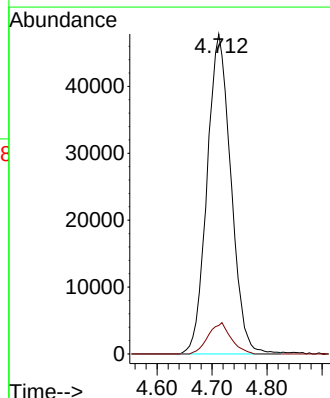
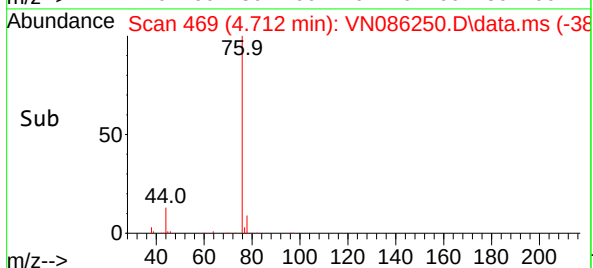
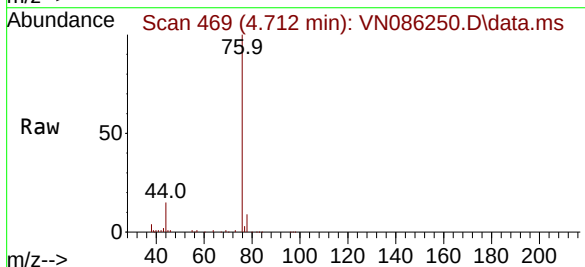
Manual Integrations
APPROVED

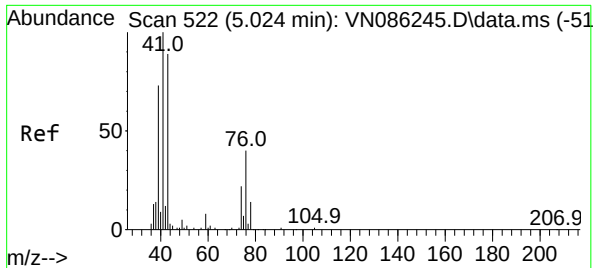
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#16
Carbon Disulfide
Concen: 19.038 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 76 Resp: 144392
Ion Ratio Lower Upper
76 100
78 8.9 7.7 11.5





#17

Allyl chloride

Concen: 20.289 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 41 Resp: 93530

Ion Ratio Lower Upper

41 100

39 64.5 34.4 103.2

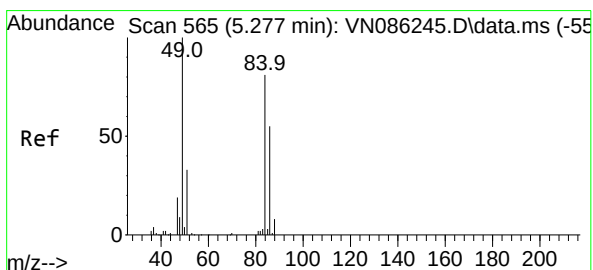
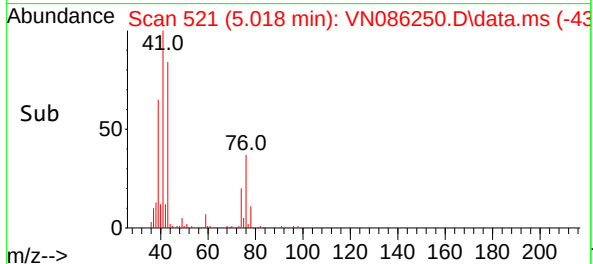
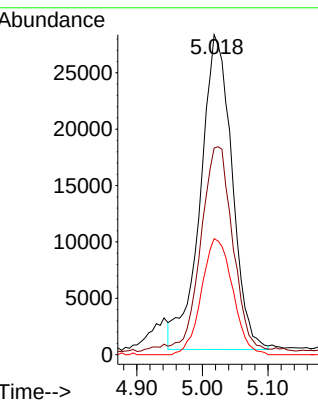
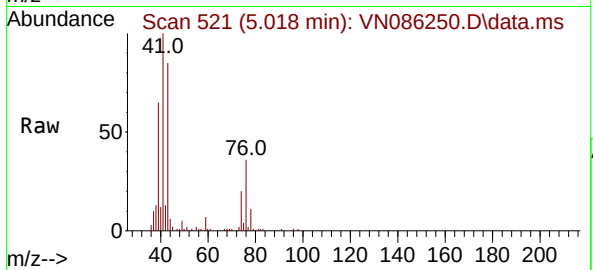
76 37.2 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 19.908 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion: 84 Resp: 60034

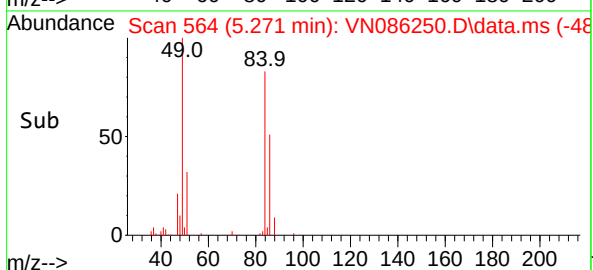
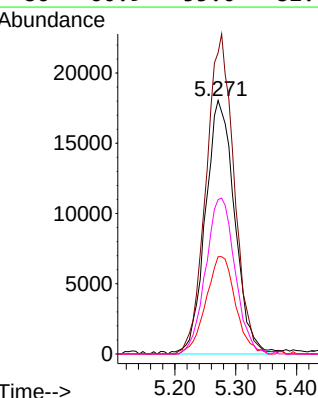
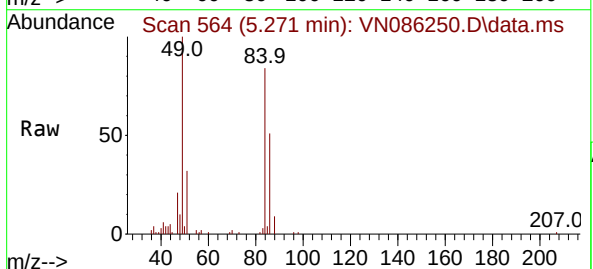
Ion Ratio Lower Upper

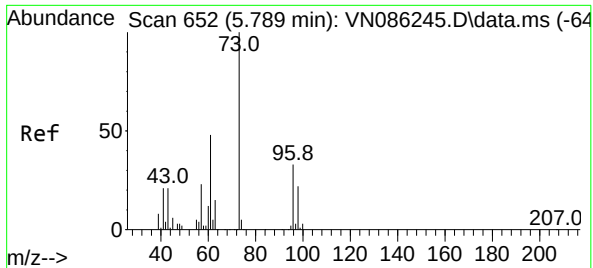
84 100

49 118.9 99.1 148.7

51 38.4 32.3 48.5

86 60.9 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 18.794 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 96 Resp: 5235

Ion Ratio Lower Upper

96 100

61 141.6 115.9 173.9

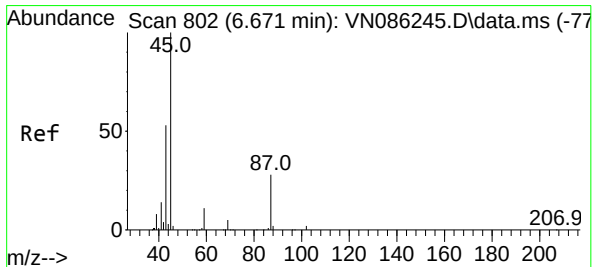
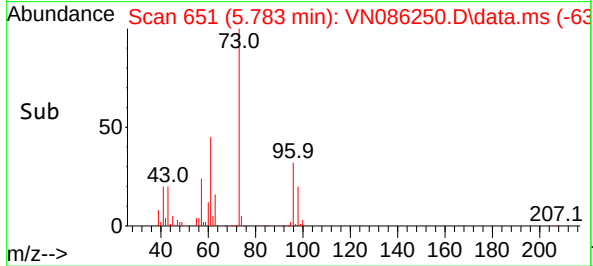
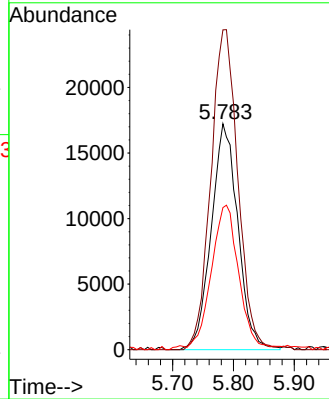
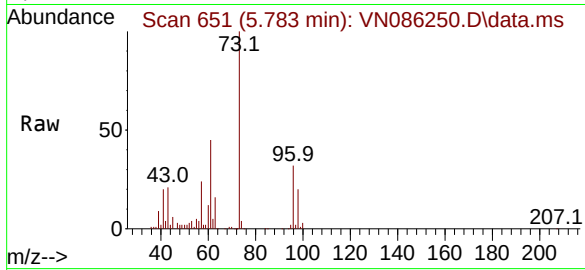
98 61.4 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 21.072 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion: 45 Resp: 208832

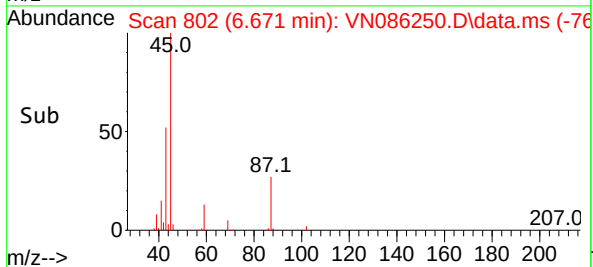
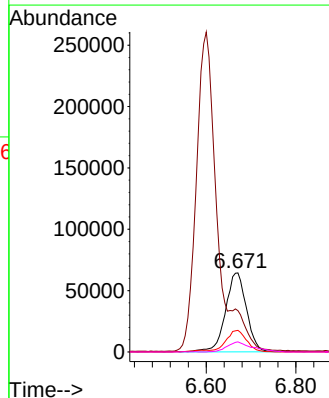
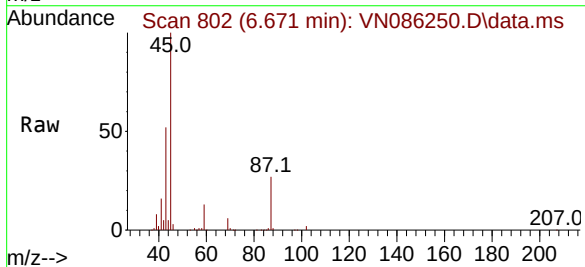
Ion Ratio Lower Upper

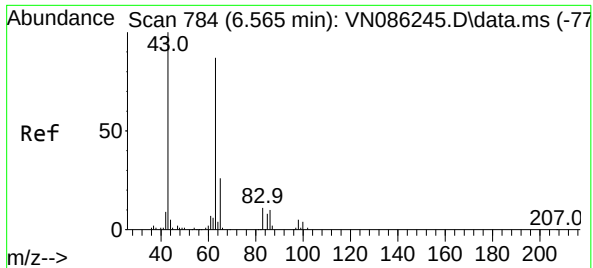
45 100

43 50.1 42.3 63.5

87 27.4 22.2 33.4

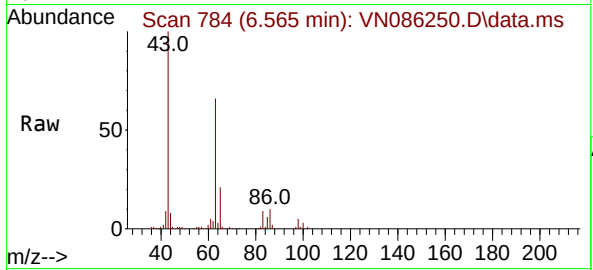
59 12.8 9.1 13.7





#21
1,1-Dichloroethane
Concen: 20.053 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

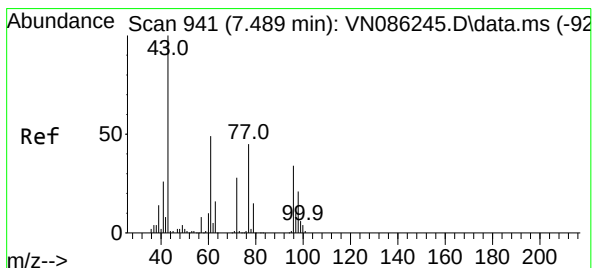
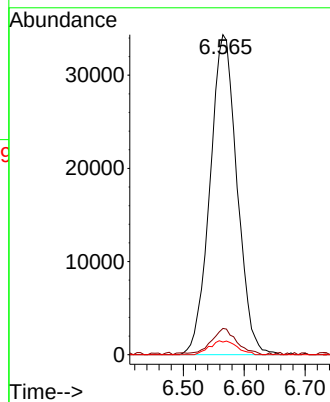
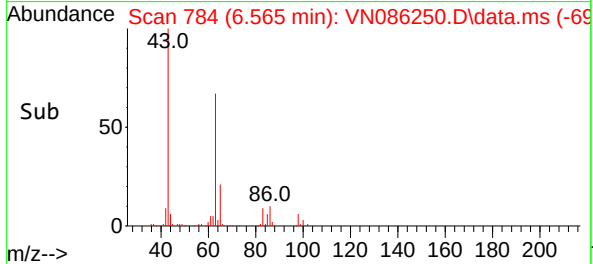
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 63 Resp: 10603
Ion Ratio Lower Upper
63 100
98 7.7 3.1 9.3
100 4.0 2.3 6.9

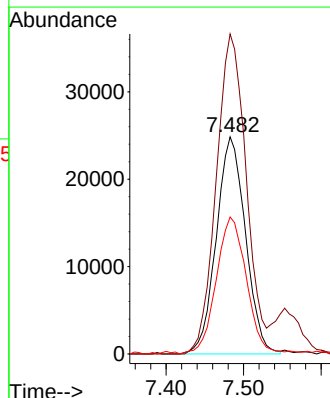
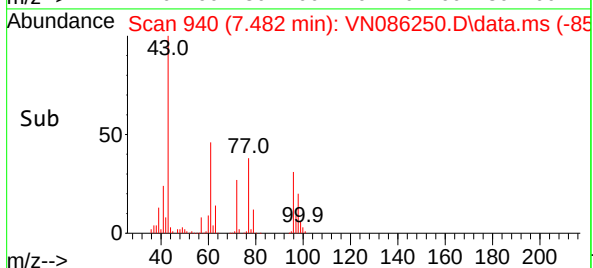
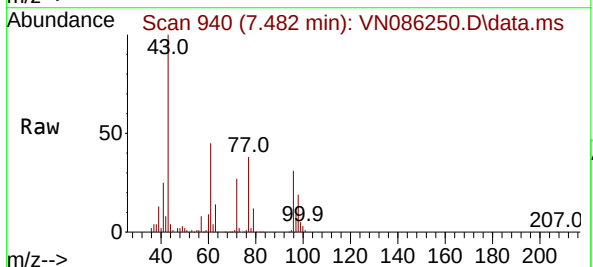
Manual Integrations
APPROVED

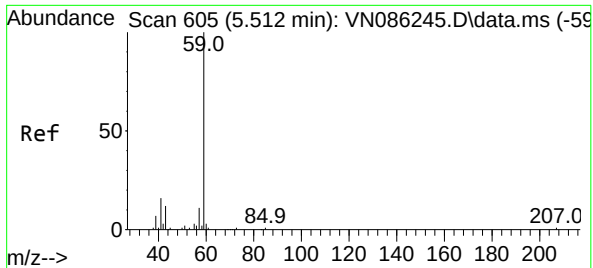
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 19.651 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

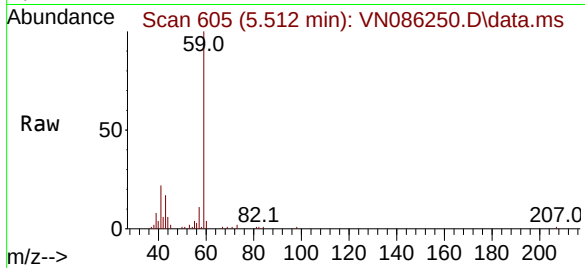
Tgt Ion: 96 Resp: 65216
Ion Ratio Lower Upper
96 100
61 150.4 119.5 179.3
98 64.8 51.0 76.6





#23
tert-Butyl Alcohol
Concen: 97.177 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

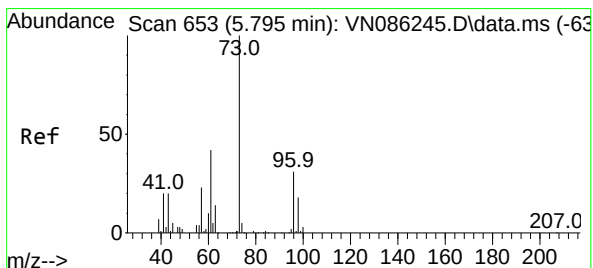
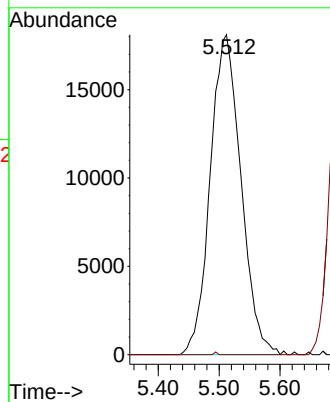
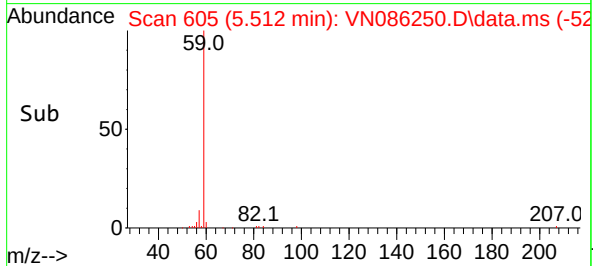
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 59 Resp: 63490
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

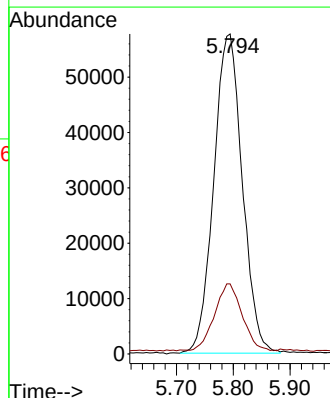
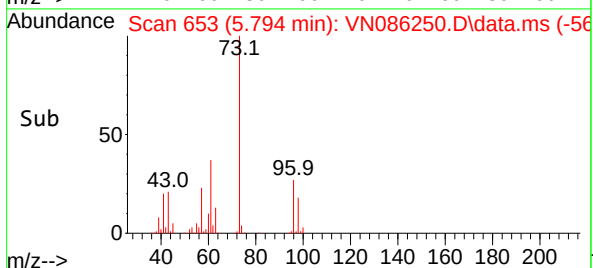
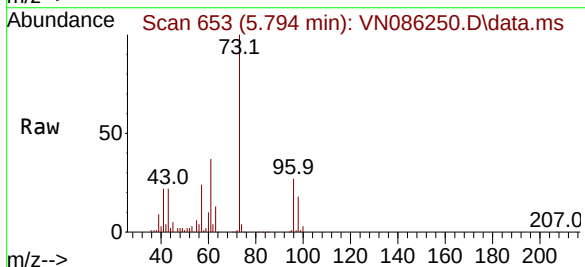
Manual Integrations
APPROVED

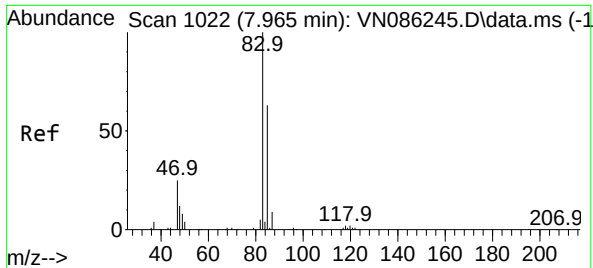
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#24
Methyl tert-Butyl Ether
Concen: 21.074 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 73 Resp: 201155
Ion Ratio Lower Upper
73 100
43 20.2 16.8 25.2





#25

Chloroform

Concen: 19.885 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 83 Resp: 10026

Ion Ratio Lower Upper

83 100

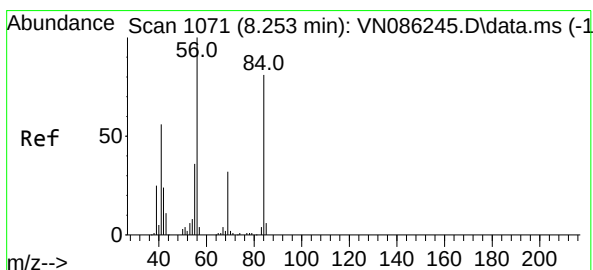
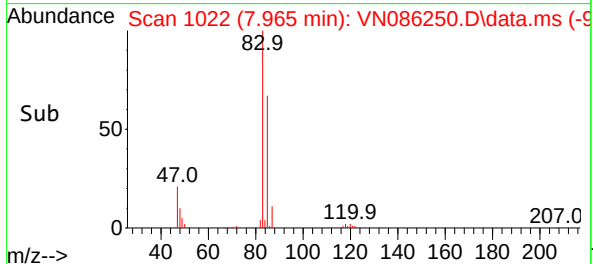
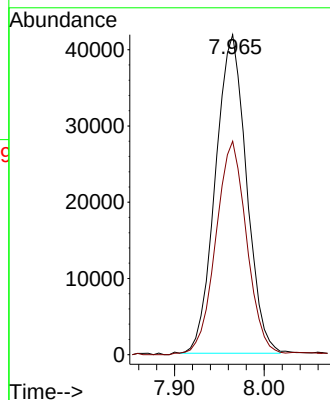
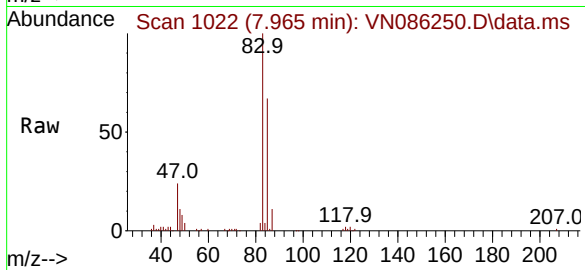
85 66.5 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 19.310 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

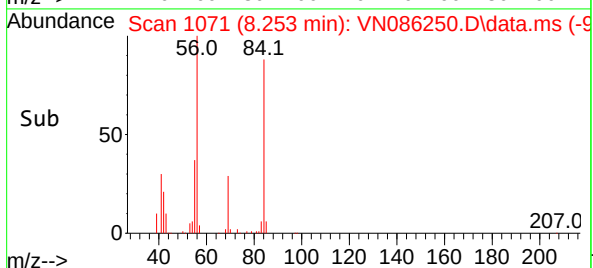
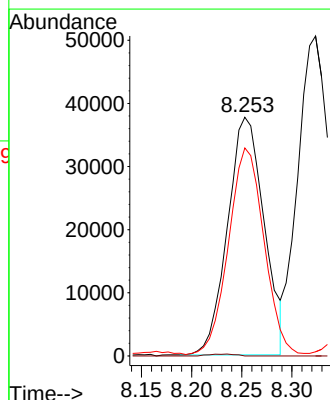
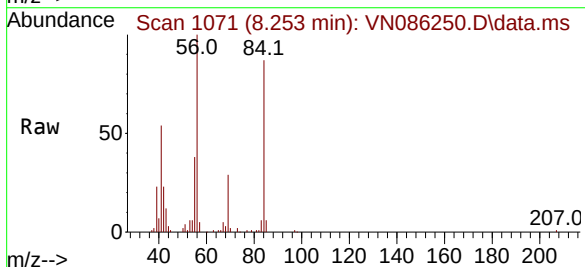
Tgt Ion: 56 Resp: 95525

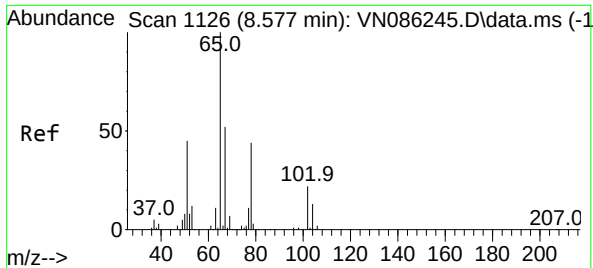
Ion Ratio Lower Upper

56 100

89 0.6 0.0 0.0#

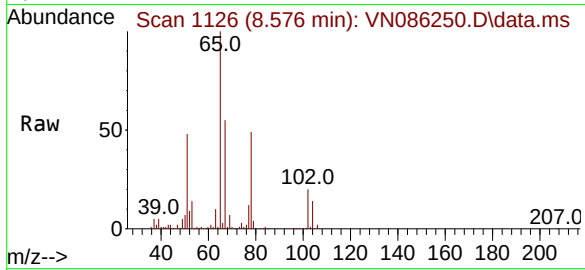
84 85.9 69.0 103.4





#27
1,2-Dichloroethane-d4
Concen: 30.208 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

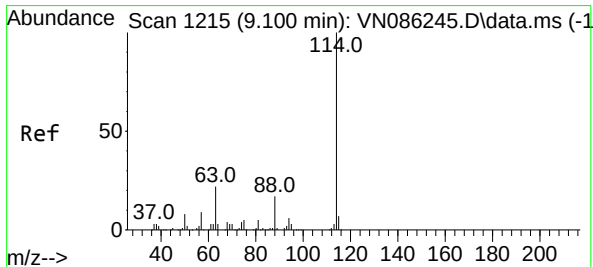
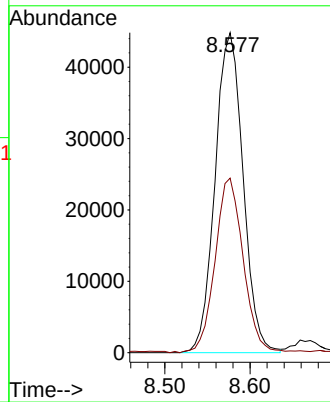
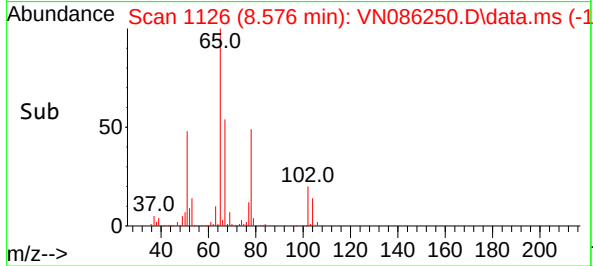
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 65 Resp: 10234
Ion Ratio Lower Upper
65 100
67 54.6 43.4 65.2

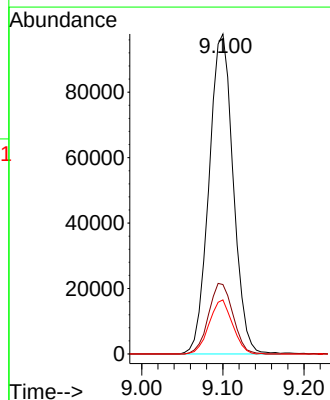
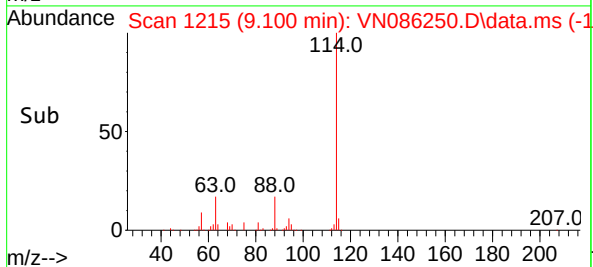
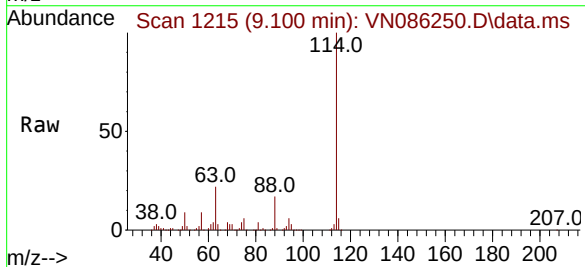
Manual Integrations
APPROVED

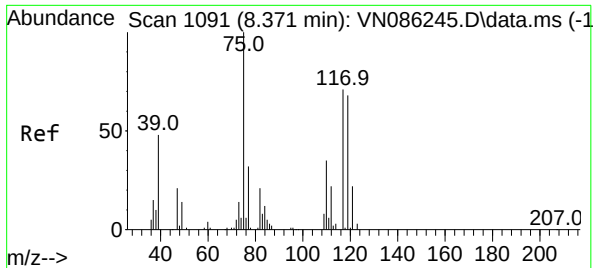
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:114 Resp: 202525
Ion Ratio Lower Upper
114 100
63 22.2 17.8 26.6
88 16.3 13.4 20.2





#29

1,1-Dichloropropene

Concen: 20.635 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

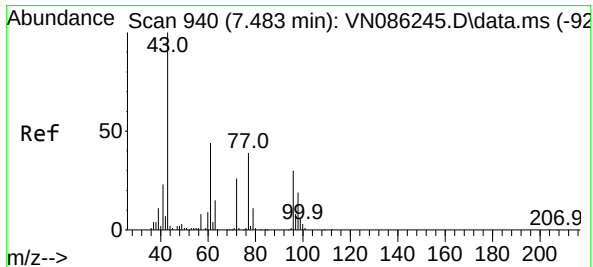
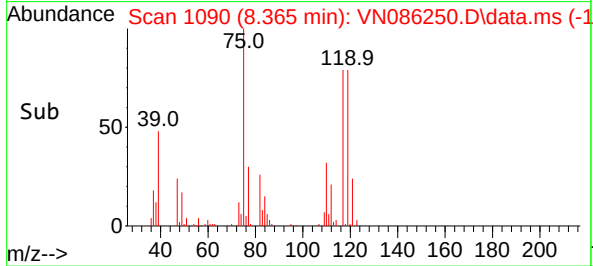
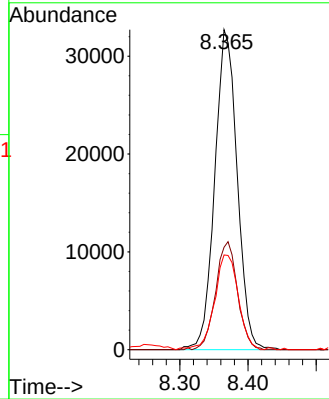
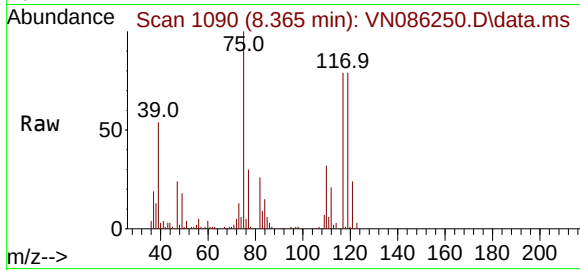
Tgt Ion: 75	Resp: 7486
Ion Ratio	Lower Upper
75 100	
110 32.9	0.0 68.6
77 31.3	0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 106.676 ug/l

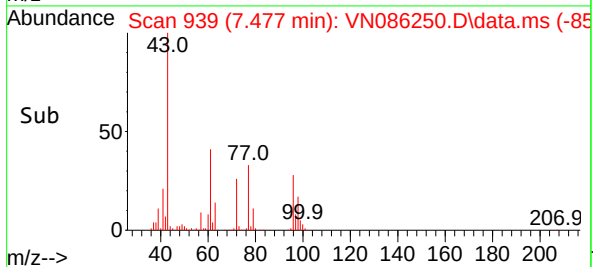
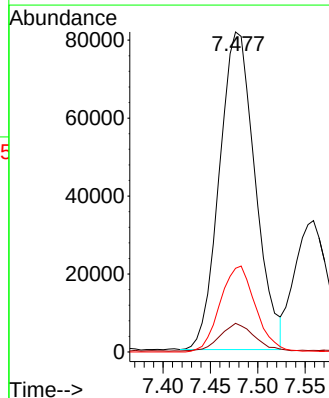
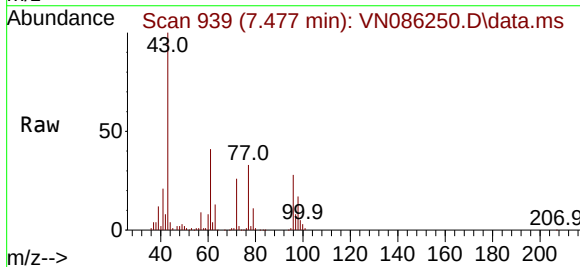
RT: 7.477 min Scan# 939

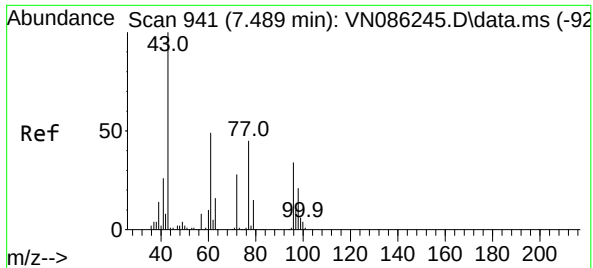
Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion: 43	Resp: 214454
Ion Ratio	Lower Upper
43 100	
57 8.4	6.4 9.6
72 26.8	21.5 32.3





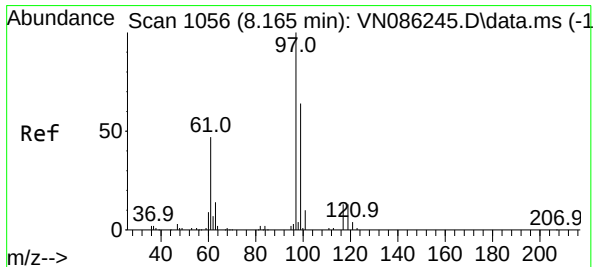
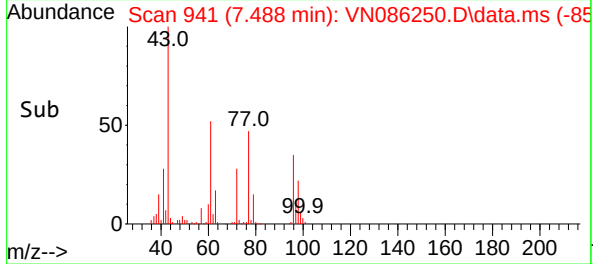
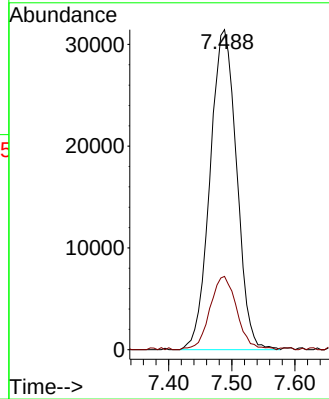
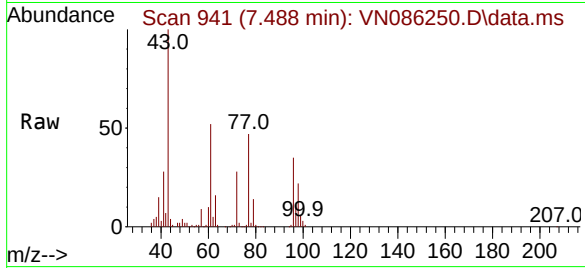
#31
2,2-Dichloropropane
Concen: 20.604 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion: 77 Resp: 92014
Ion Ratio Lower Upper
77 100
97 23.0 18.8 28.2

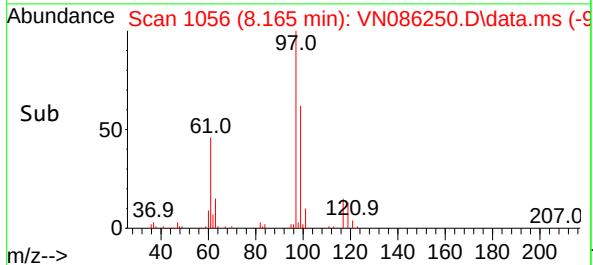
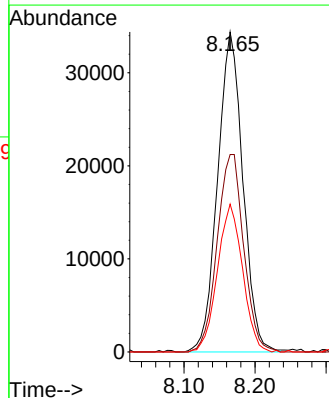
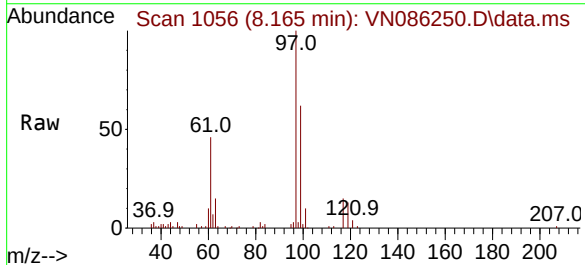
Manual Integrations
APPROVED

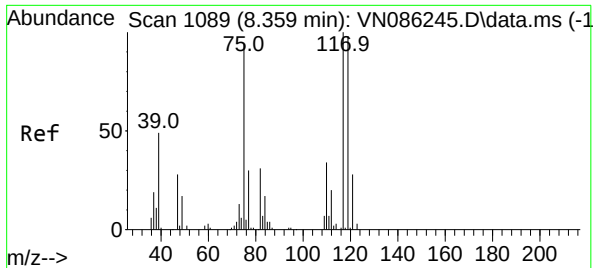
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 20.333 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

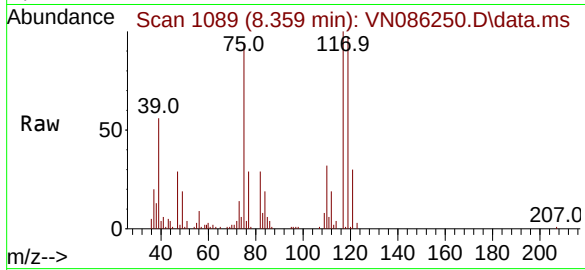
Tgt Ion: 97 Resp: 84856
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 46.0 37.0 55.6





#33
Carbon Tetrachloride
Concen: 20.645 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

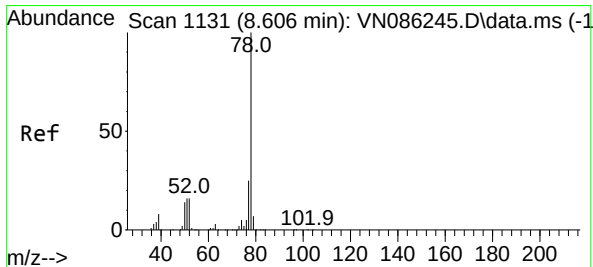
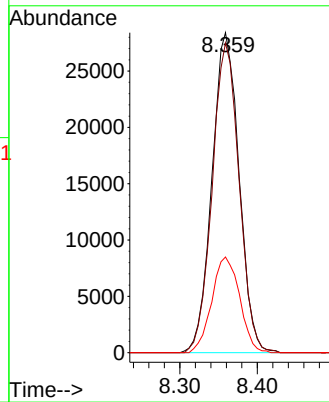
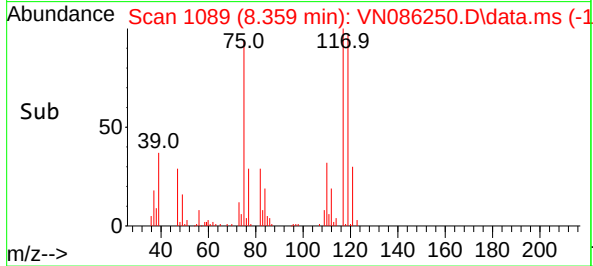
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 117 Resp: 68854
Ion Ratio Lower Upper
117 100
119 96.8 78.3 117.5
121 29.9 22.5 33.7

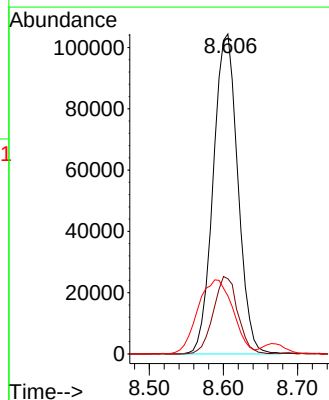
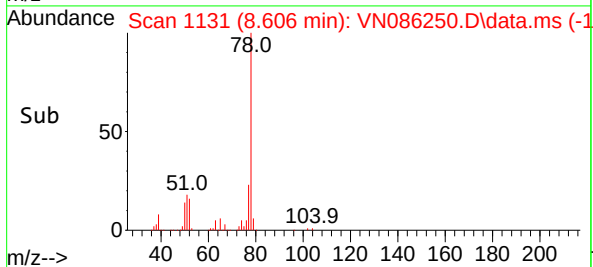
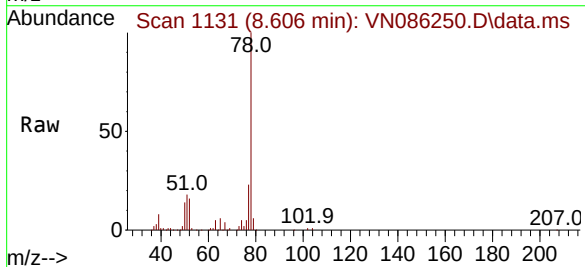
Manual Integrations
APPROVED

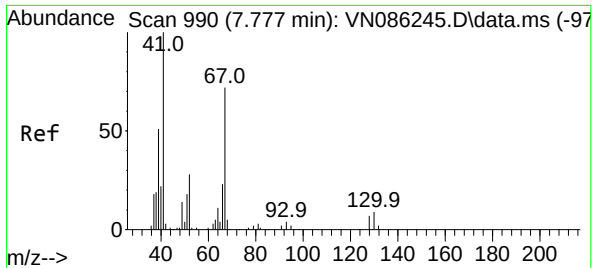
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 20.834 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 78 Resp: 240477
Ion Ratio Lower Upper
78 100
77 23.5 20.0 30.0
51 16.9 12.9 19.3





#35

Methacrylonitrile

Concen: 21.230 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 41 Resp: 4811

Ion Ratio Lower Upper

41 100

39 57.6 25.8 77.3

67 72.6 36.0 108.0

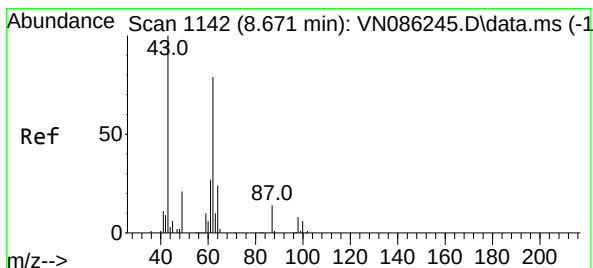
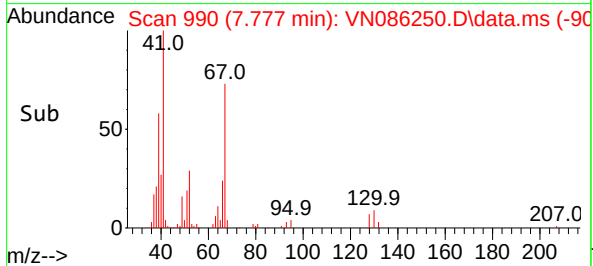
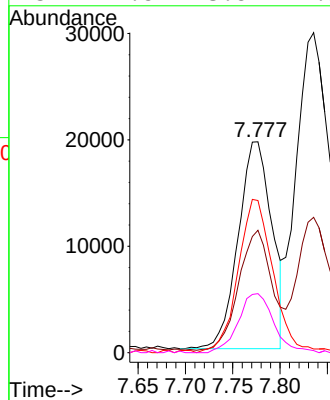
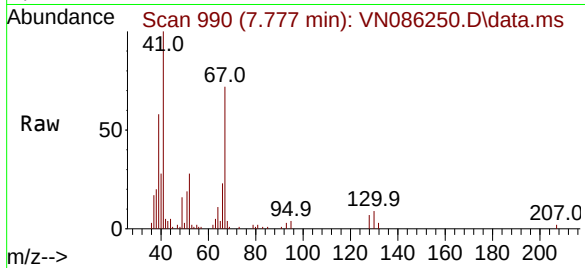
52 27.8 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 21.439 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086250.D

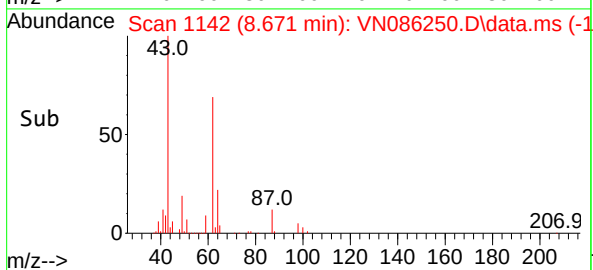
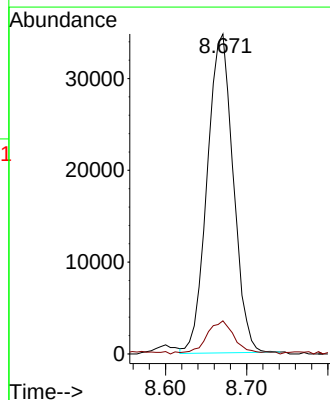
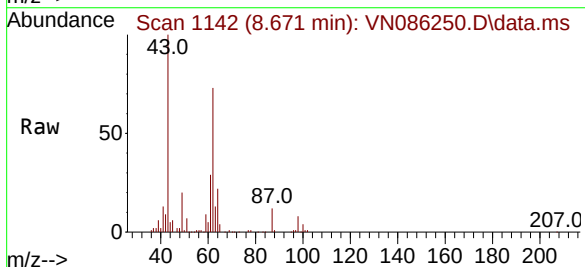
Acq: 11 Apr 2025 15:16

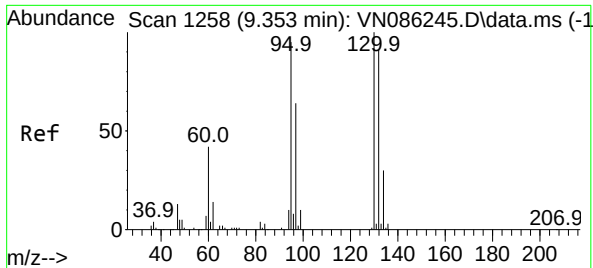
Tgt Ion: 62 Resp: 77436

Ion Ratio Lower Upper

62 100

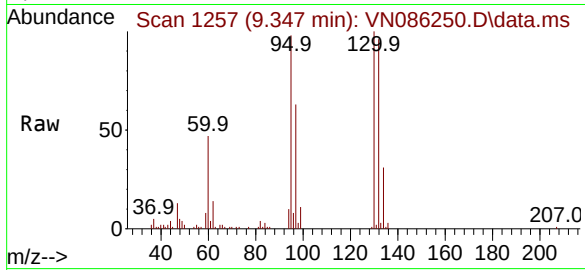
98 10.1 8.6 12.8





#37
Trichloroethene
Concen: 20.471 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

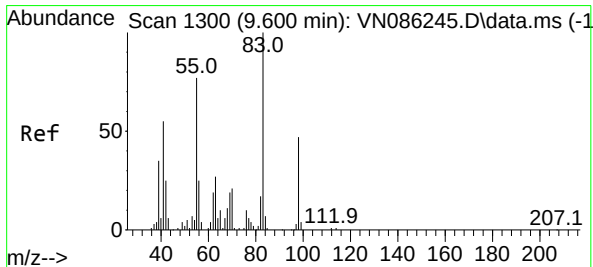
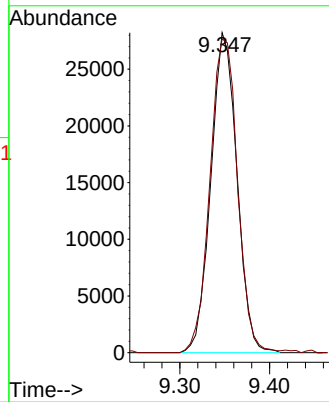
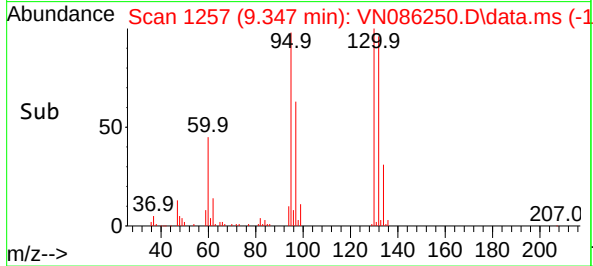
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



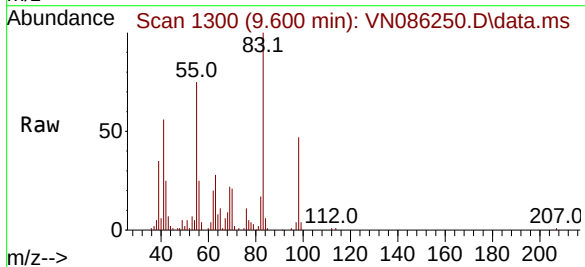
Tgt Ion:130 Resp: 57010
Ion Ratio Lower Upper
130 100
95 98.1 76.4 114.6

Manual Integrations
APPROVED

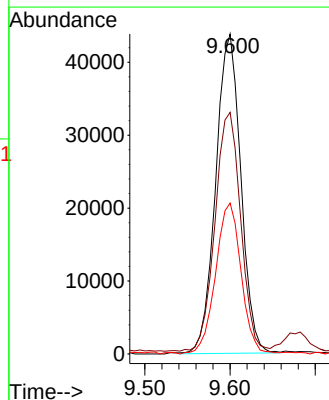
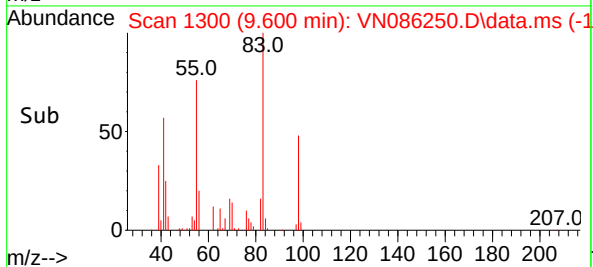
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

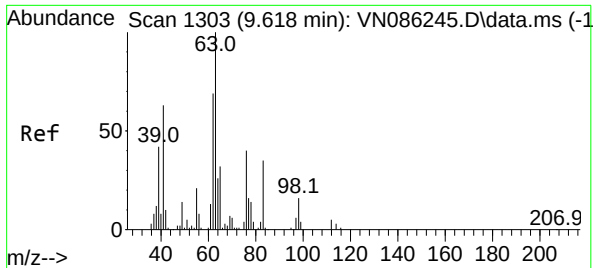


#38
Methylcyclohexane
Concen: 20.125 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16



Tgt Ion: 83 Resp: 89548
Ion Ratio Lower Upper
83 100
55 76.5 38.5 115.5
98 48.1 24.4 73.2





#39

1,2-Dichloropropane

Concen: 21.392 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 63 Resp: 61439

Ion Ratio Lower Upper

63 100

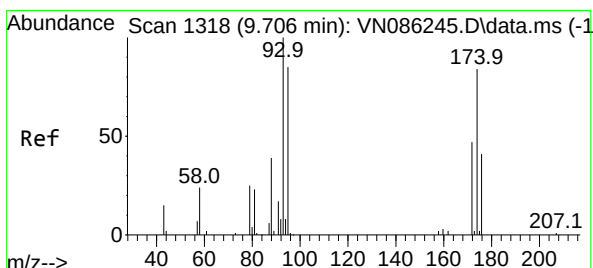
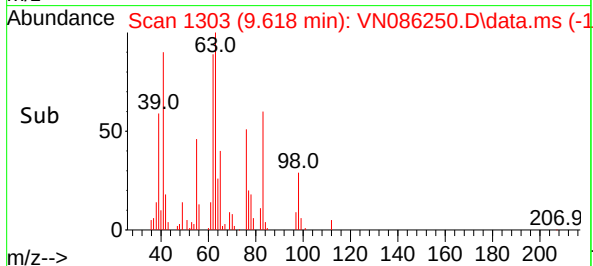
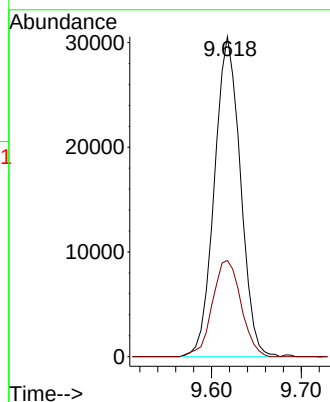
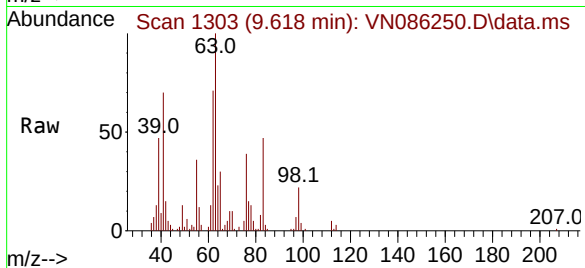
65 30.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 21.185 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

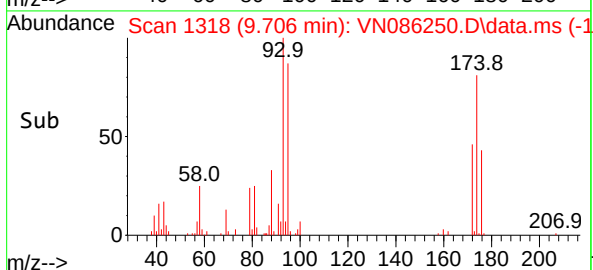
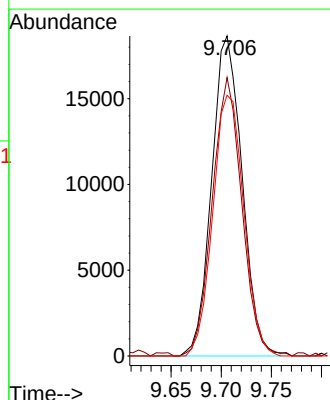
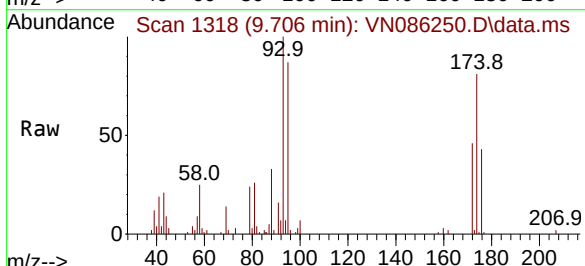
Tgt Ion: 93 Resp: 39298

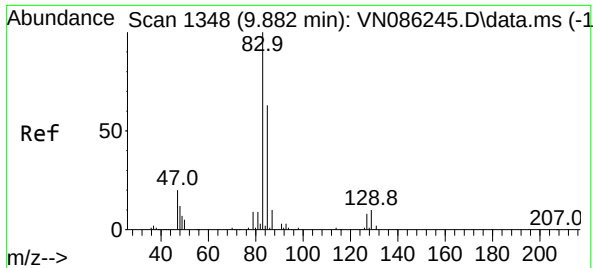
Ion Ratio Lower Upper

93 100

95 84.7 0.0 169.0

174 83.2 0.0 168.0





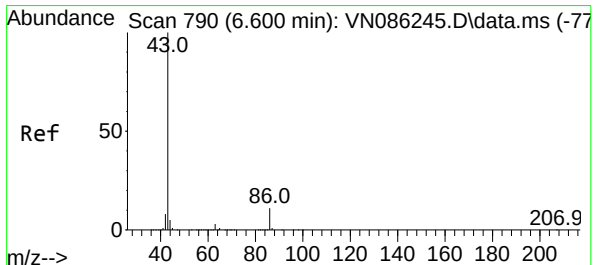
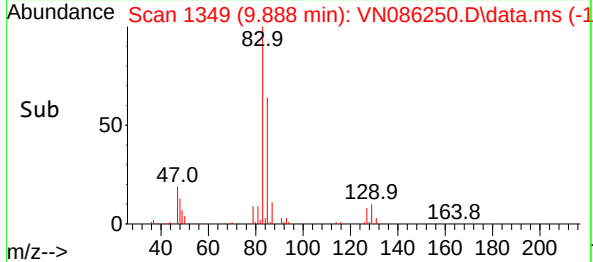
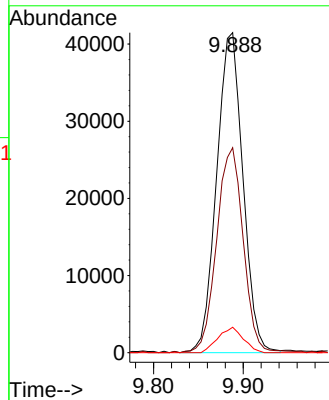
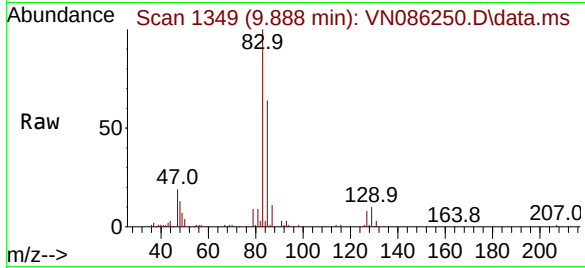
#41
Bromodichloromethane
Concen: 21.197 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion: 83 Resp: 8446
Ion Ratio Lower Upper
83 100
85 64.0 50.2 75.2
127 8.0 6.2 9.4

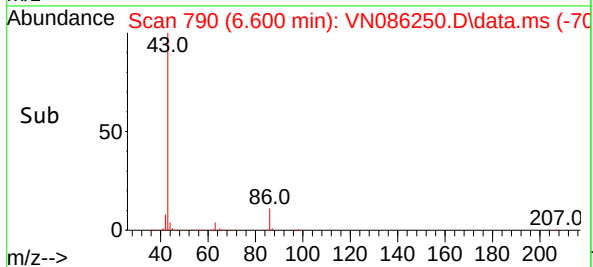
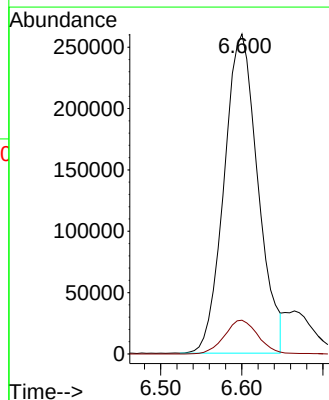
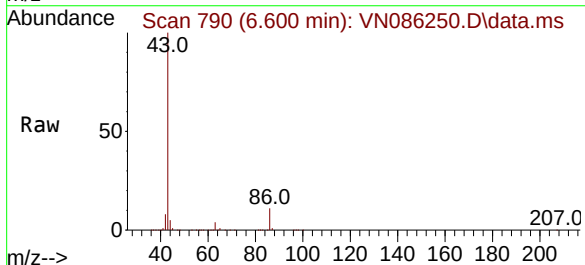
Manual Integrations
APPROVED

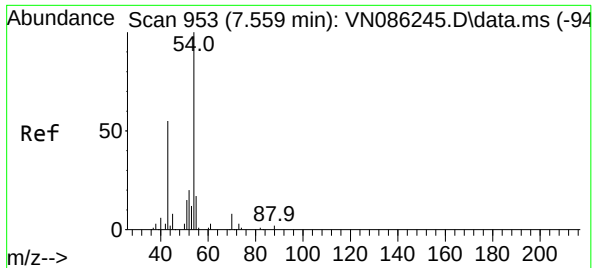
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 110.147 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

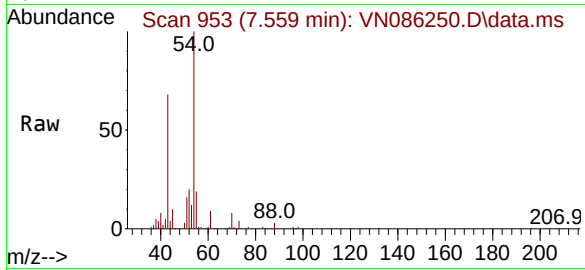
Tgt Ion: 43 Resp: 753748
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6





#43
Ethyl Acetate
Concen: 20.939 ug/l
RT: 7.559 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

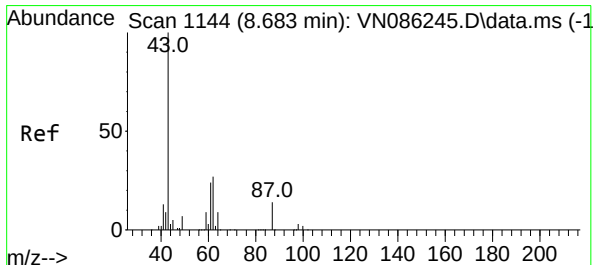
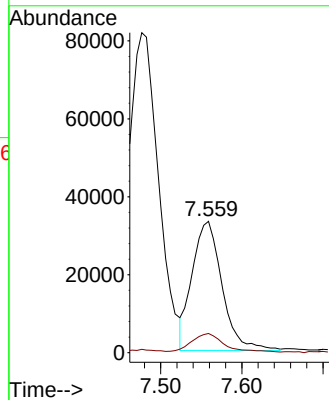
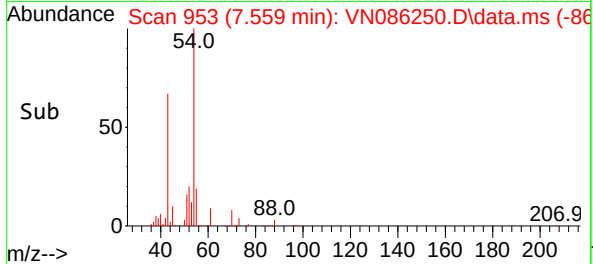
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 43 Resp: 8490
Ion Ratio Lower Upper
43 100
45 15.9 11.2 16.8

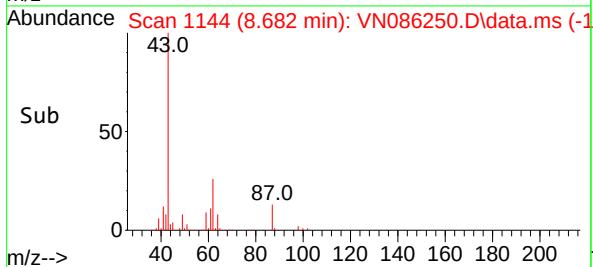
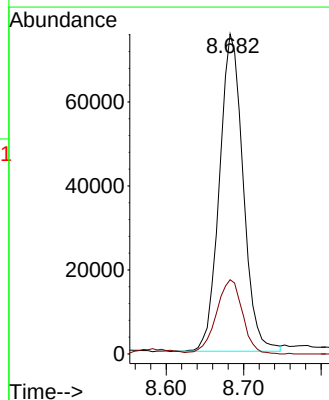
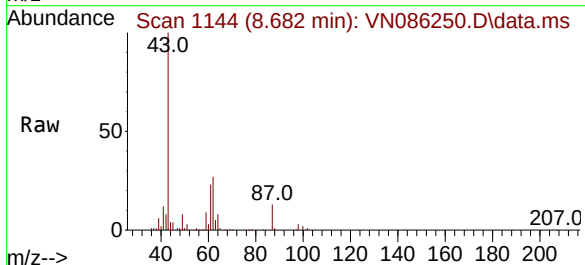
Manual Integrations
APPROVED

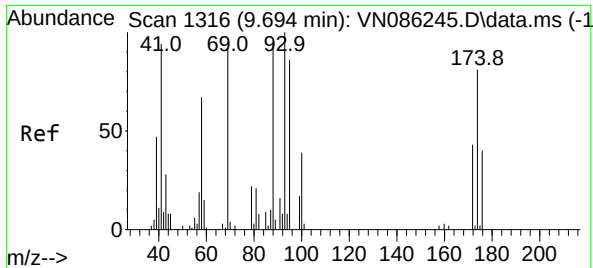
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 21.391 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 43 Resp: 160910
Ion Ratio Lower Upper
43 100
61 25.9 20.5 30.7





#45

1,4-Dioxane

Concen: 391.526 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 88 Resp: 23420

Ion Ratio Lower Upper

88 100

43 30.8 14.4 21.6

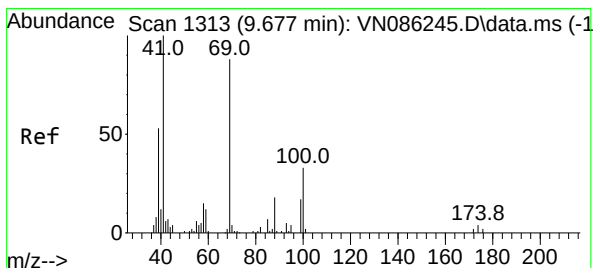
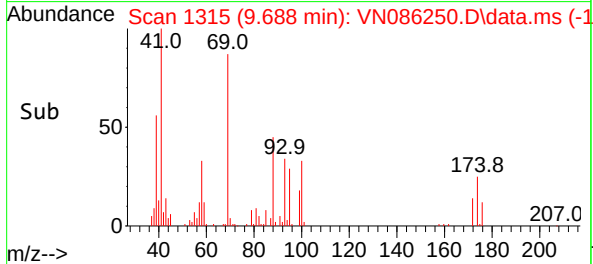
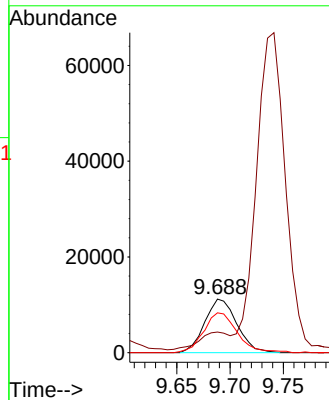
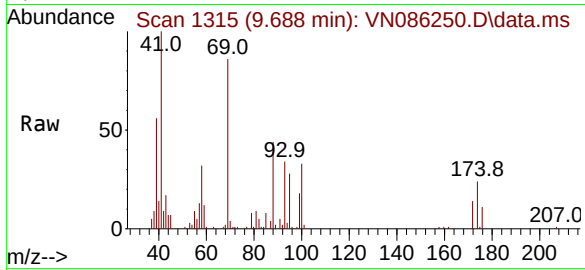
58 78.0 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 21.088 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

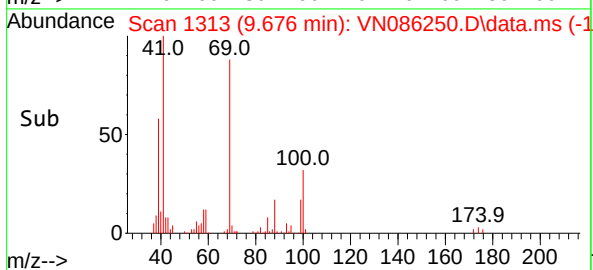
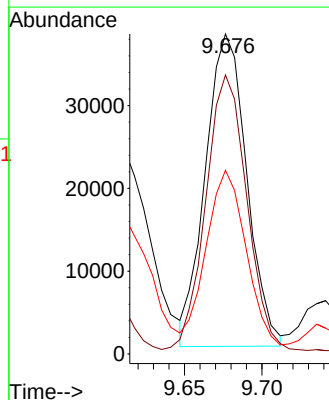
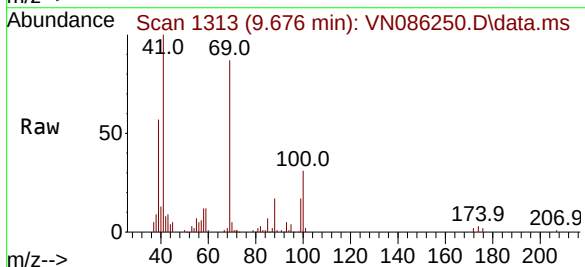
Tgt Ion: 41 Resp: 69895

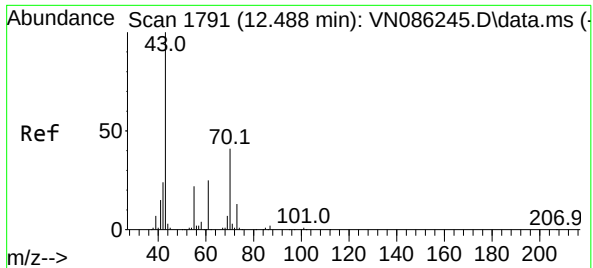
Ion Ratio Lower Upper

41 100

69 89.0 43.2 129.6

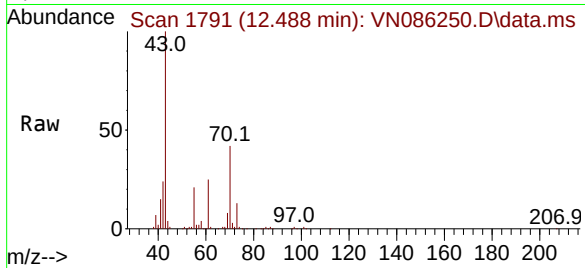
39 57.9 26.4 79.0





#47
n-amy1 Acetate
Concen: 21.222 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

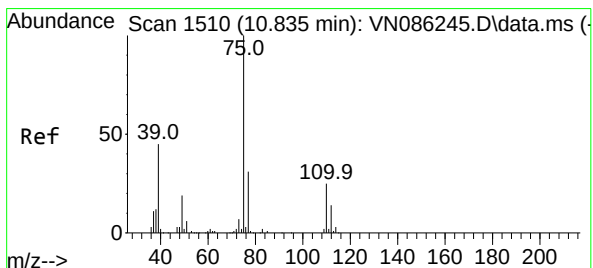
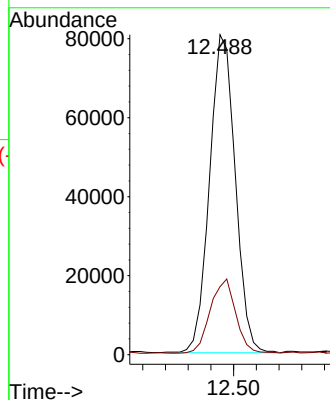
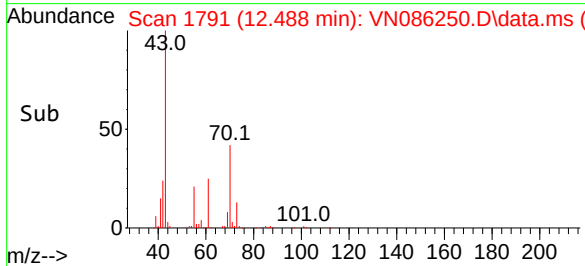
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 43 Resp: 126579
Ion Ratio Lower Upper
43 100
55 23.1 19.0 28.4

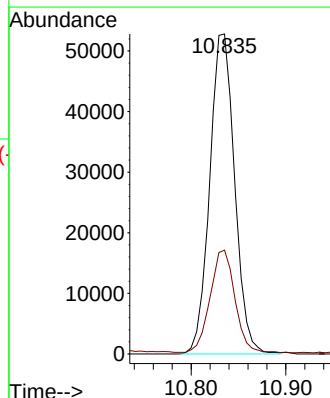
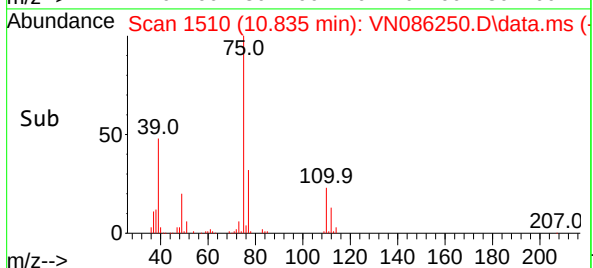
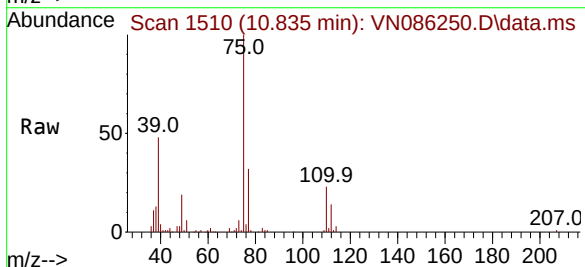
Manual Integrations
APPROVED

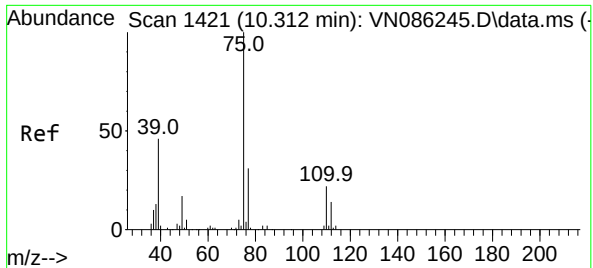
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#48
t-1,3-Dichloropropene
Concen: 21.411 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

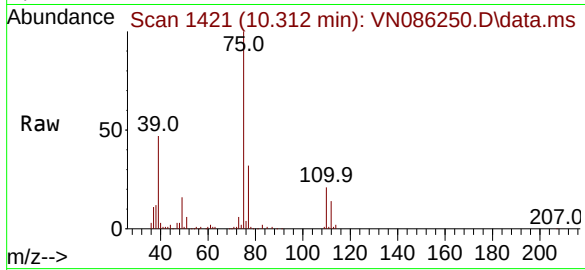
Tgt Ion: 75 Resp: 96458
Ion Ratio Lower Upper
75 100
77 32.0 25.1 37.7





#49
 cis-1,3-Dichloropropene
 Concen: 21.406 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

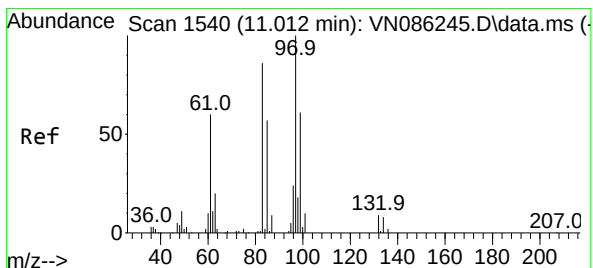
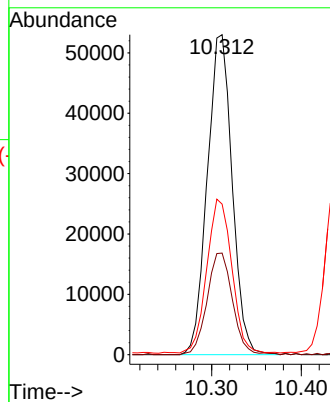
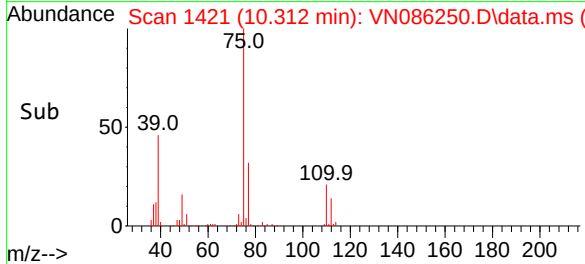
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01



Tgt Ion: 75 Resp: 102060
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.0 37.4
 39 46.5 36.7 55.1

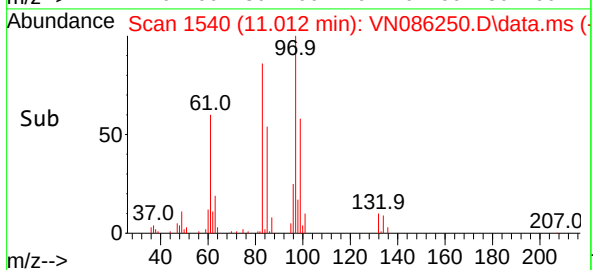
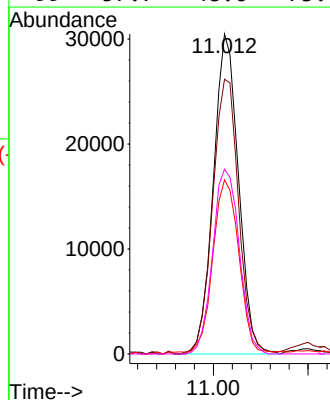
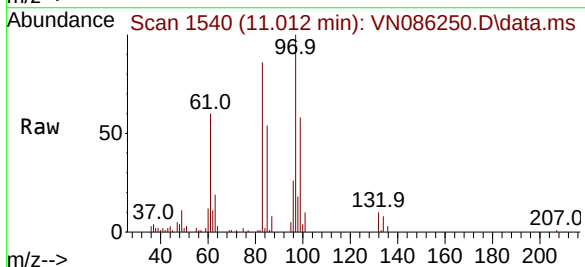
Manual Integrations
 APPROVED

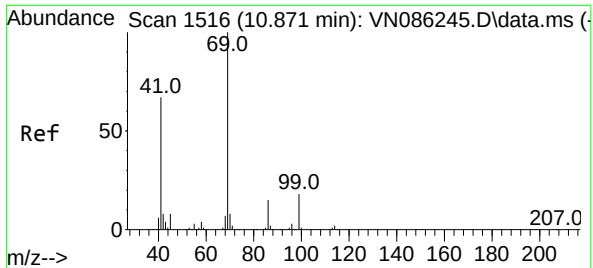
Reviewed By :John Carlone 04/14/2025
 Supervised By :Mahesh Dadoda 04/14/2025



#50
 1,1,2-Trichloroethane
 Concen: 21.561 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

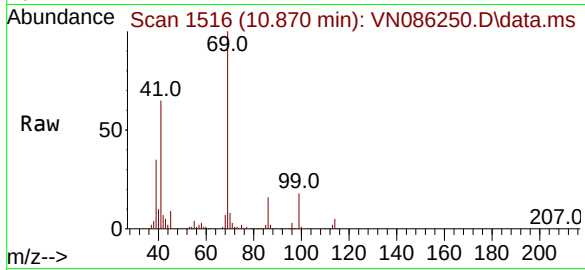
Tgt Ion: 97 Resp: 56096
 Ion Ratio Lower Upper
 97 100
 83 85.9 68.6 103.0
 85 53.8 45.9 68.9
 99 57.7 48.6 73.0





#51
Ethyl methacrylate
Concen: 21.747 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

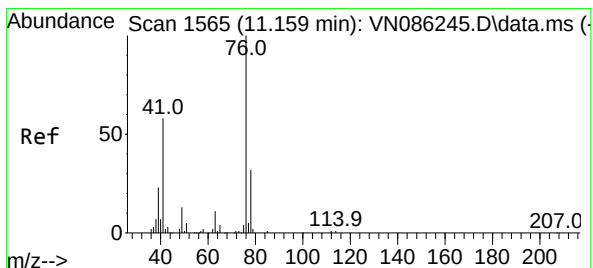
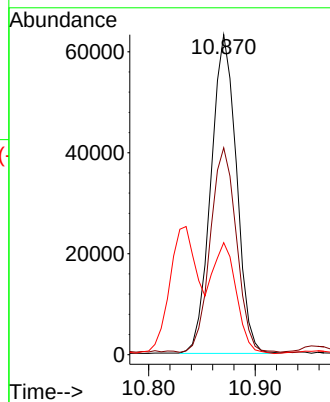
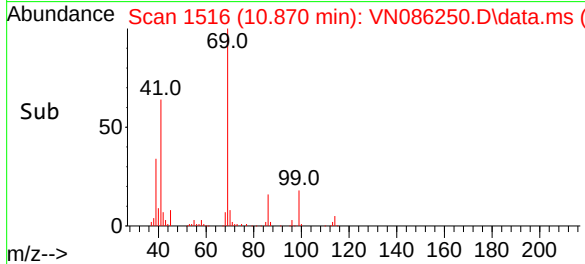
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 69 Resp: 105140
Ion Ratio Lower Upper
69 100
41 64.2 33.6 100.6
39 34.7 17.8 53.4

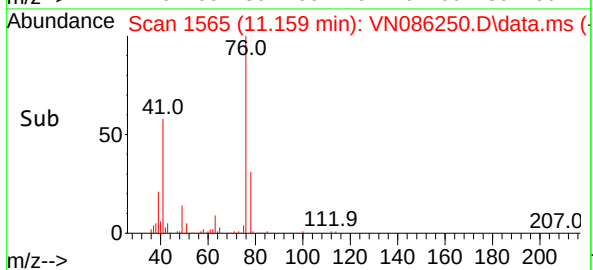
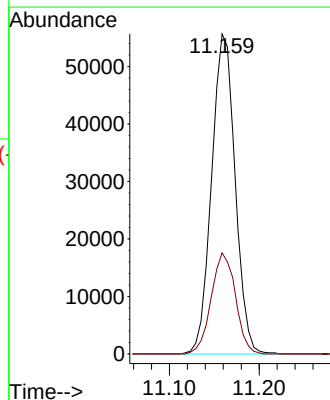
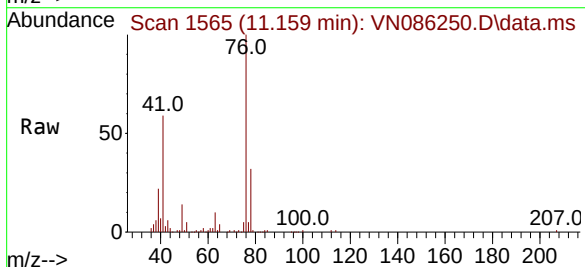
Manual Integrations
APPROVED

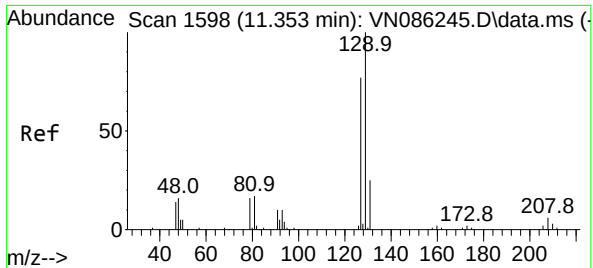
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 21.850 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

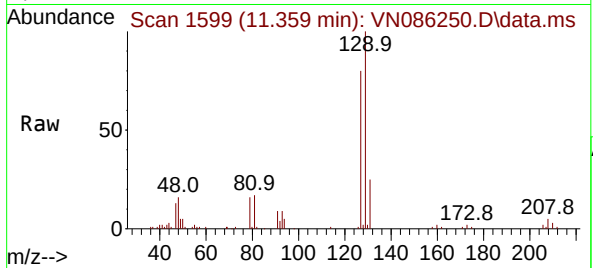
Tgt Ion: 76 Resp: 101323
Ion Ratio Lower Upper
76 100
78 32.5 0.0 64.6





#53
Dibromochloromethane
Concen: 21.706 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

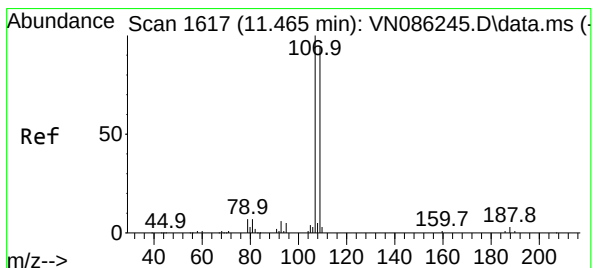
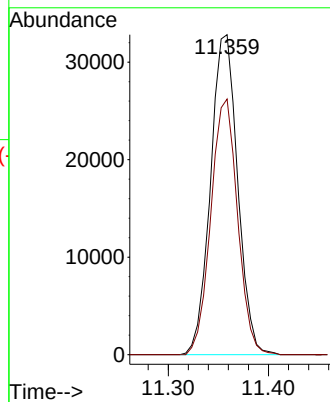
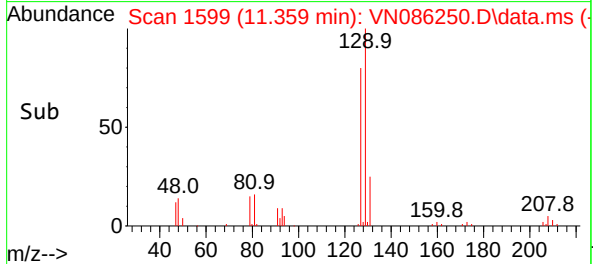
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:129 Resp: 6177
Ion Ratio Lower Upper
129 100
127 78.6 38.5 115.5

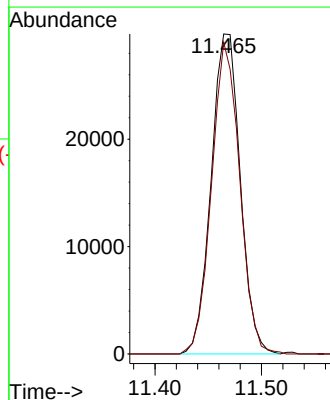
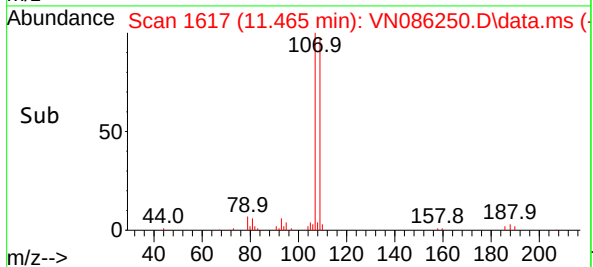
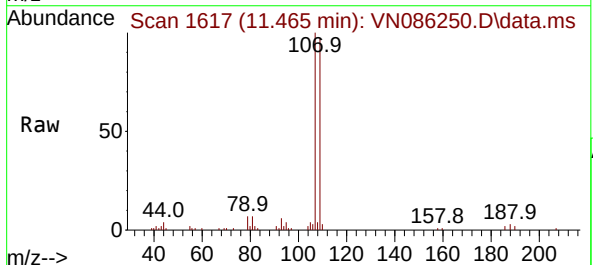
Manual Integrations
APPROVED

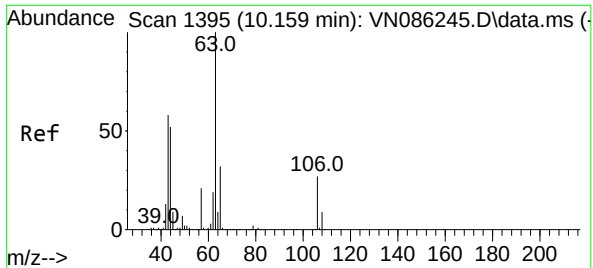
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 21.523 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

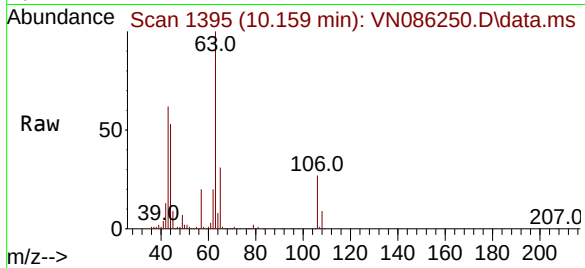
Tgt Ion:107 Resp: 56526
Ion Ratio Lower Upper
107 100
109 94.1 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 139.276 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

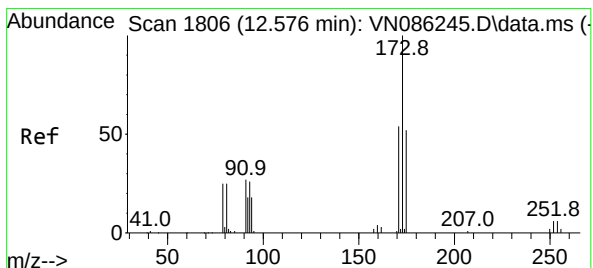
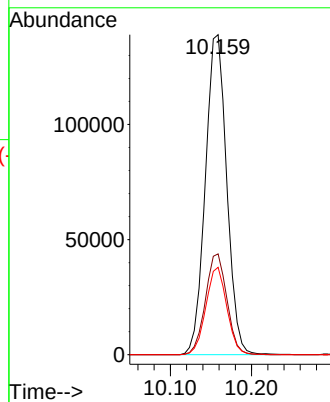
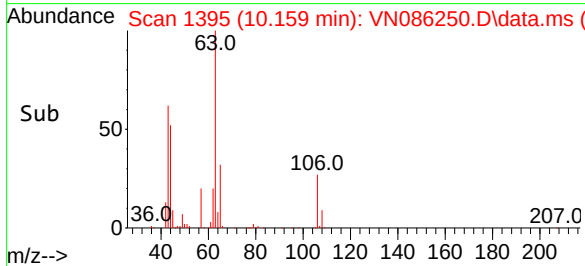
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 63 Resp: 254440
Ion Ratio Lower Upper
63 100
65 31.6 25.8 38.8
106 26.7 21.8 32.8

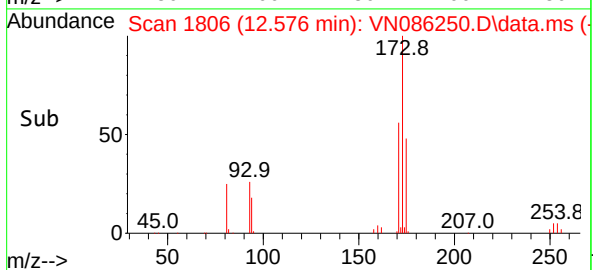
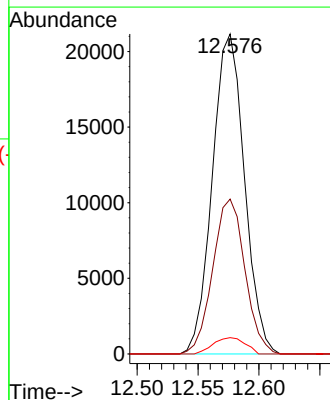
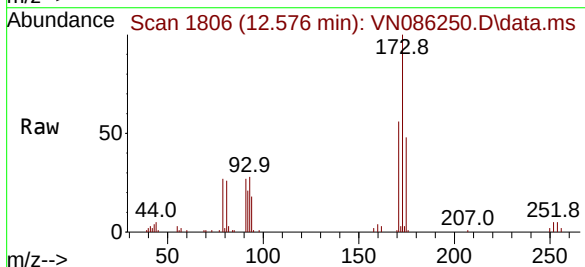
Manual Integrations
APPROVED

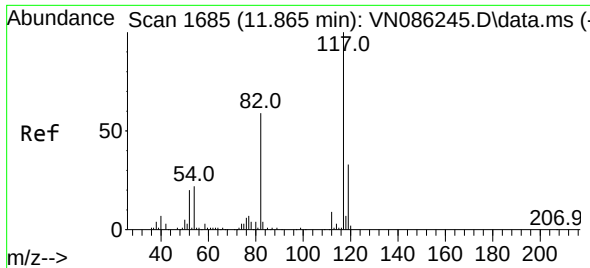
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 20.842 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

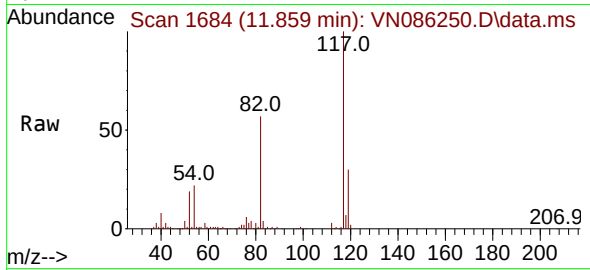
Tgt Ion:173 Resp: 38804
Ion Ratio Lower Upper
173 100
175 48.4 38.2 57.4
254 5.1 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

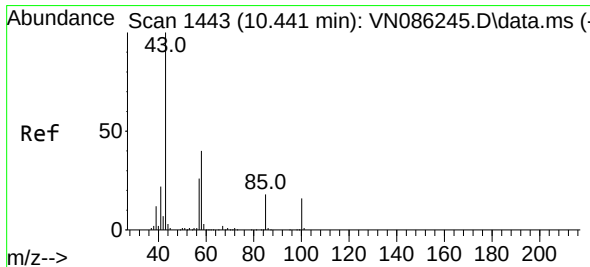
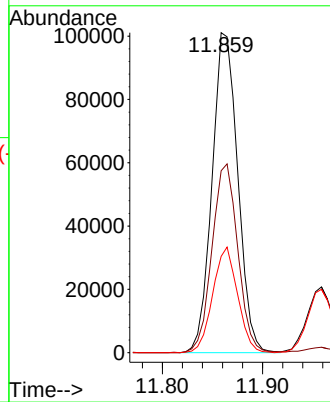
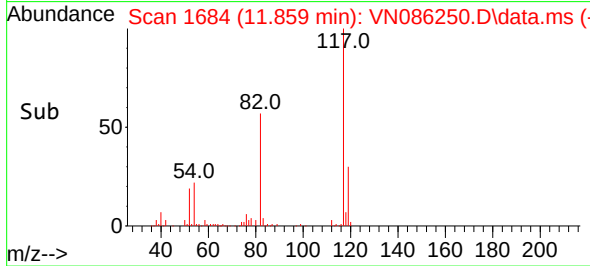
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 117 Resp: 18036
Ion Ratio Lower Upper
117 100
82 59.2 47.3 70.9
119 31.9 25.9 38.9

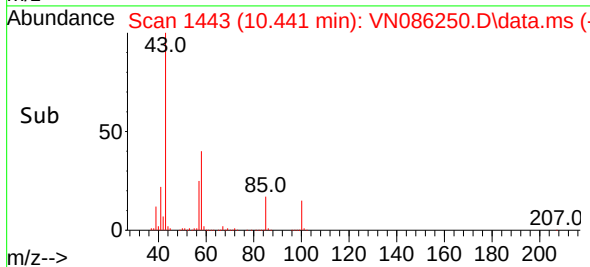
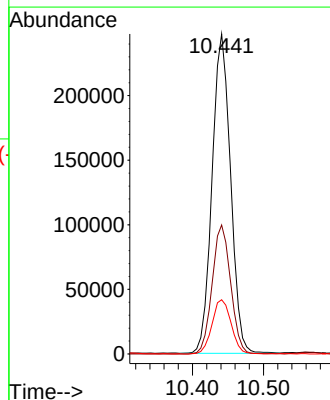
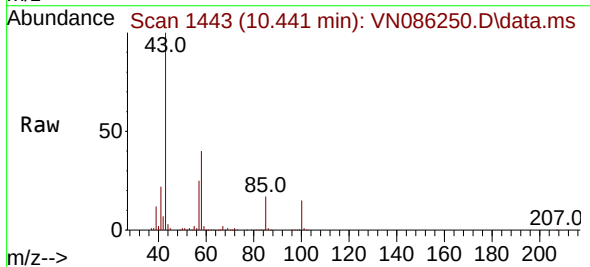
Manual Integrations
APPROVED

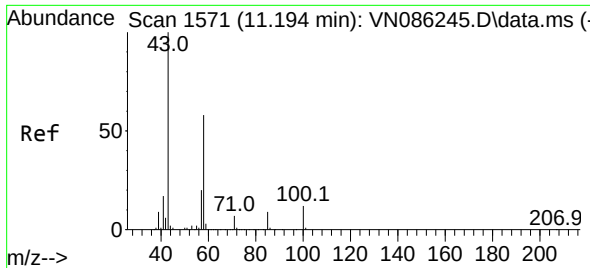
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 109.058 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

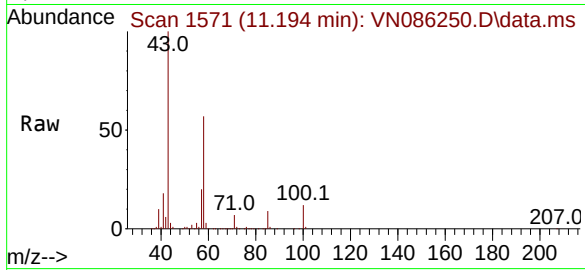
Tgt Ion: 43 Resp: 446372
Ion Ratio Lower Upper
43 100
58 40.3 32.5 48.7
85 17.6 14.4 21.6





#59
2-Hexanone
Concen: 105.569 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

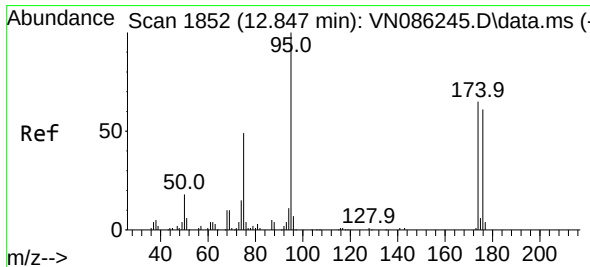
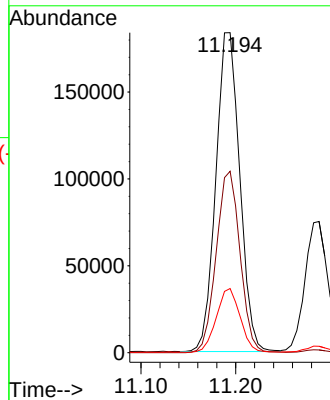
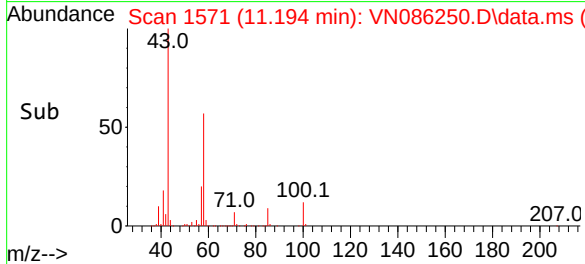
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



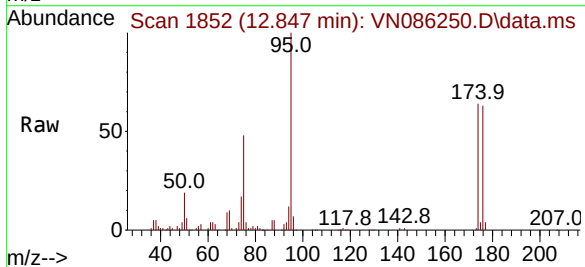
Tgt Ion: 43 Resp: 32174
Ion Ratio Lower Upper
43 100
58 56.7 45.3 67.9
57 19.7 15.8 23.6

Manual Integrations
APPROVED

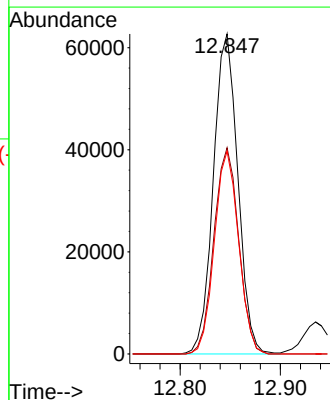
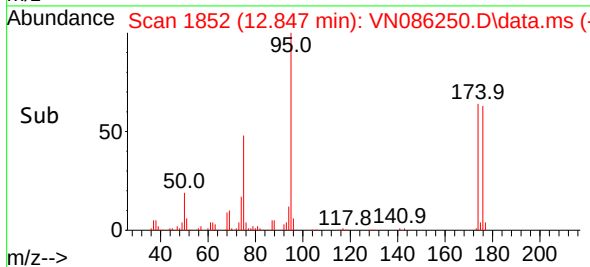
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

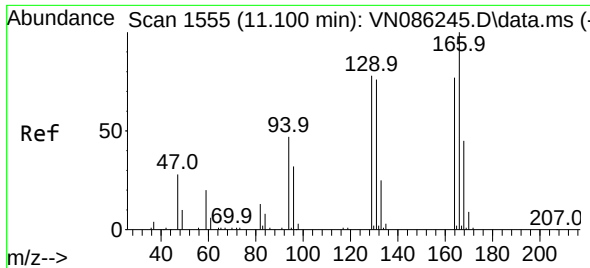


#60
4-Bromofluorobenzene
Concen: 29.590 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16



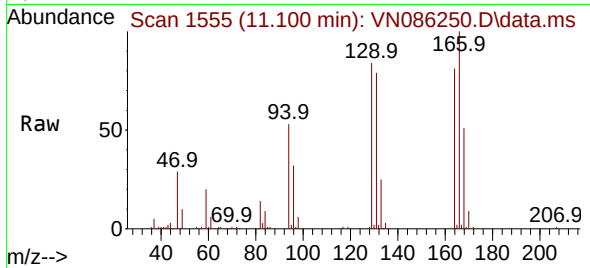
Tgt Ion: 95 Resp: 106256
Ion Ratio Lower Upper
95 100
174 65.0 52.7 79.1
176 62.5 49.8 74.8





#61
Tetrachloroethene
Concen: 20.264 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

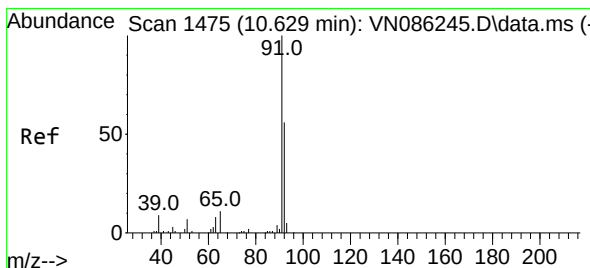
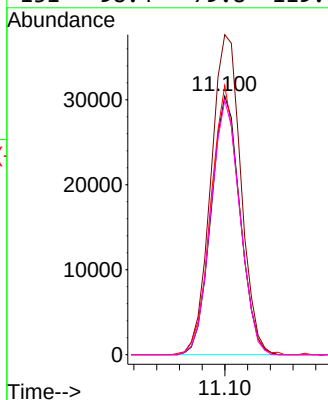
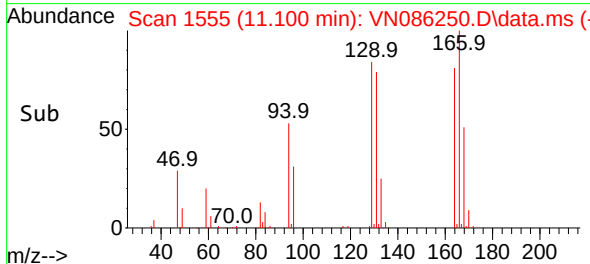
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:164 Resp: 53974
Ion Ratio Lower Upper
164 100
166 123.9 104.5 156.7
129 103.6 81.7 122.5
131 98.4 79.8 119.6

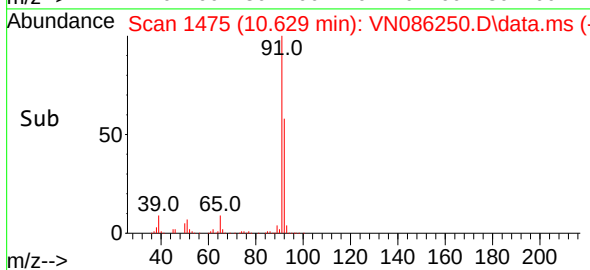
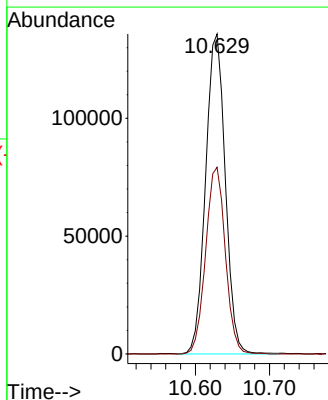
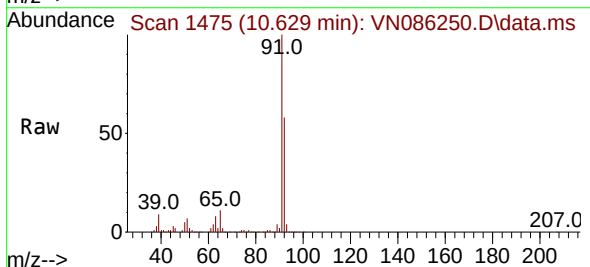
Manual Integrations
APPROVED

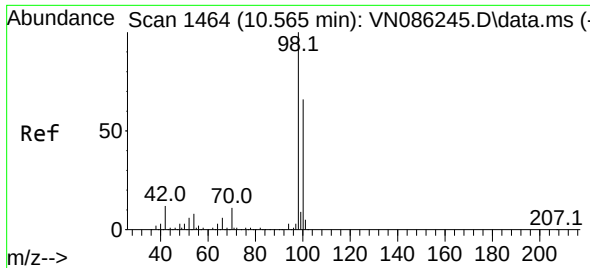
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 20.706 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

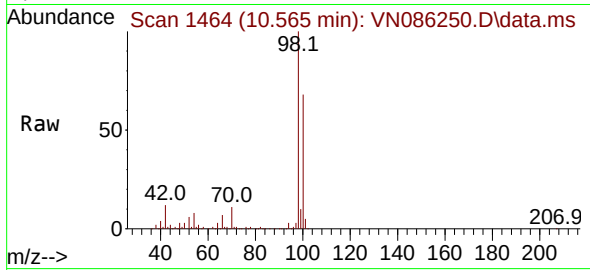
Tgt Ion: 91 Resp: 250492
Ion Ratio Lower Upper
91 100
92 58.4 46.8 70.2





#63
Toluene-d8
Concen: 29.803 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

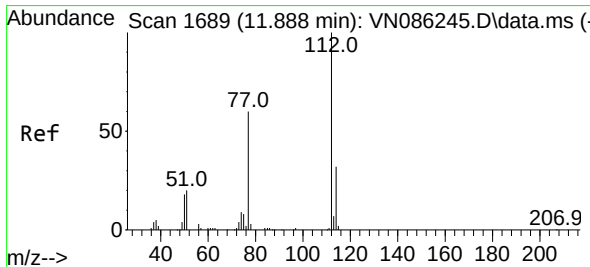
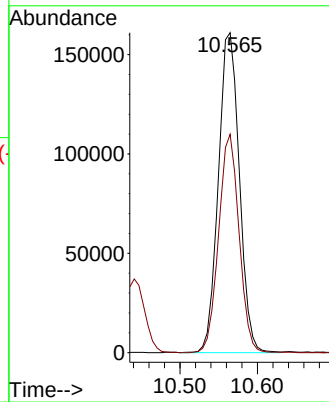
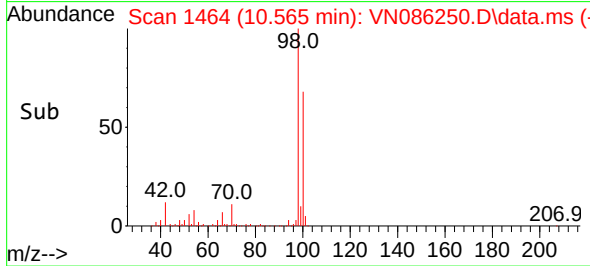
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 98 Resp: 303469
Ion Ratio Lower Upper
98 100
100 66.4 52.3 78.5

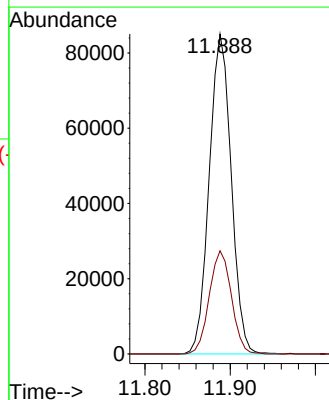
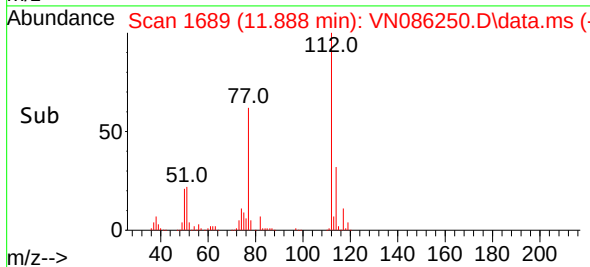
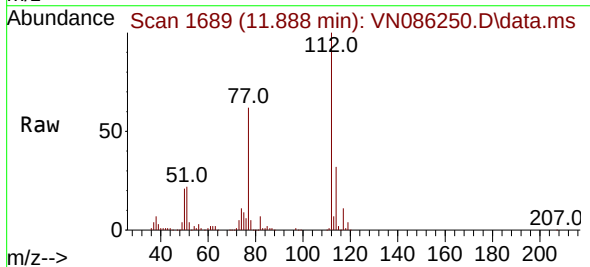
Manual Integrations
APPROVED

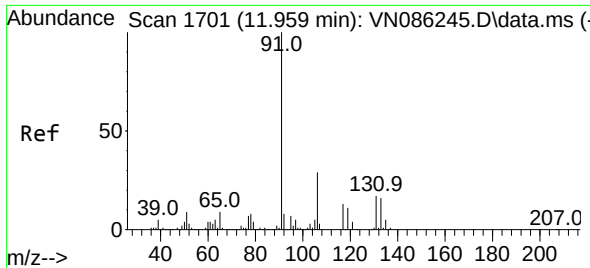
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 20.635 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

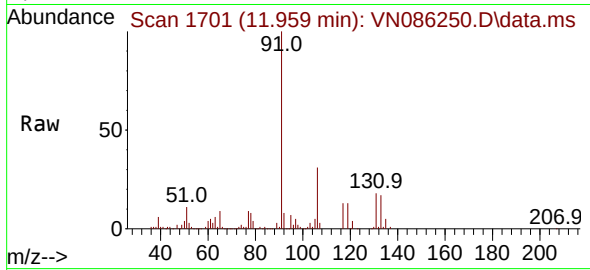
Tgt Ion:112 Resp: 152512
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 21.219 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

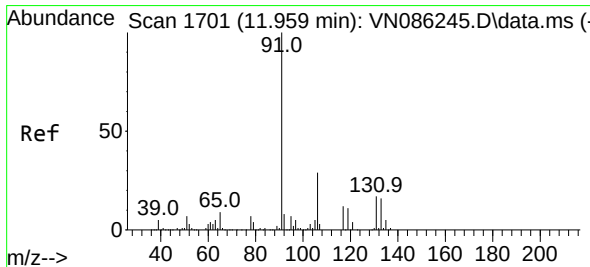
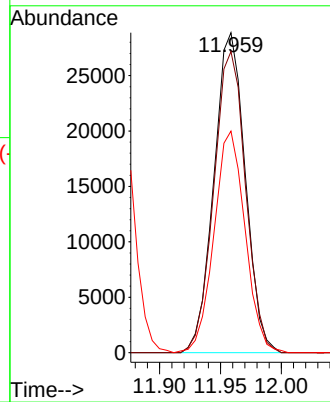
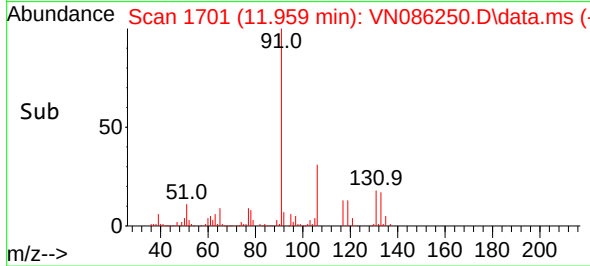
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:131 Resp: 51750
Ion Ratio Lower Upper
131 100
133 95.3 0.0 190.4
119 68.7 0.0 135.6

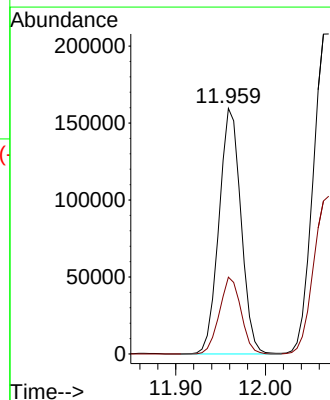
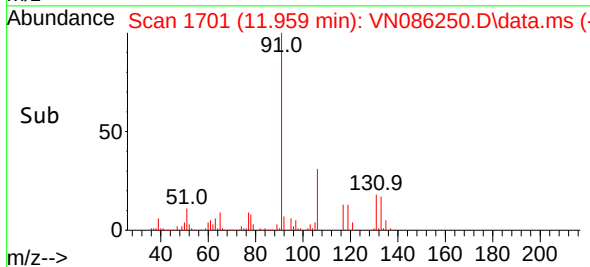
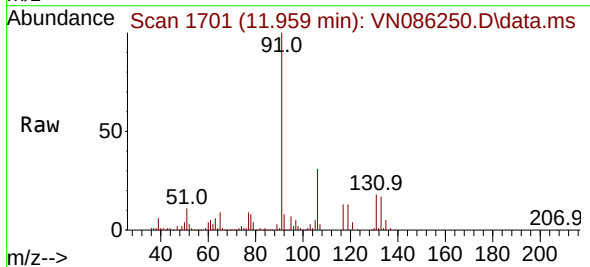
Manual Integrations
APPROVED

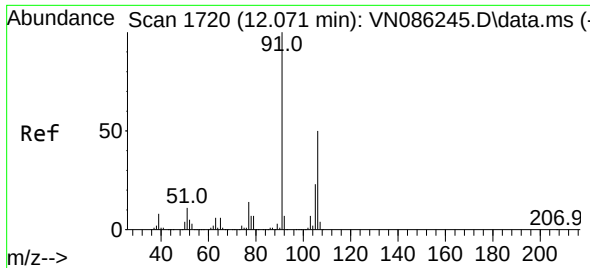
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 20.236 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

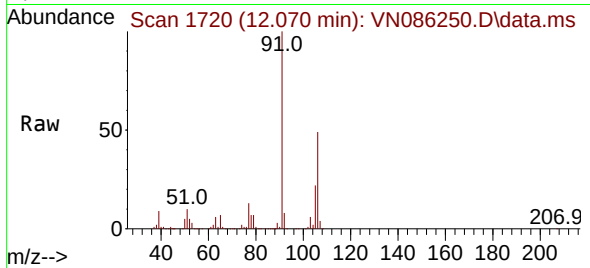
Tgt Ion: 91 Resp: 271487
Ion Ratio Lower Upper
91 100
106 31.3 23.4 35.0





#67
m/p-Xylenes
Concen: 40.720 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

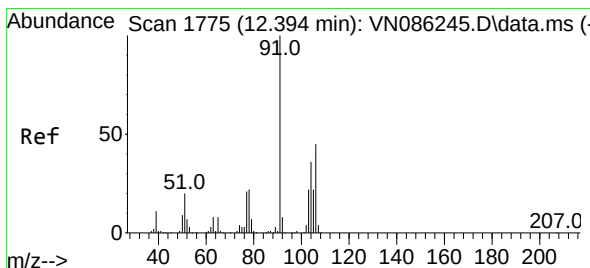
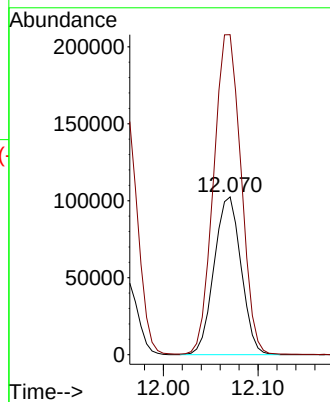
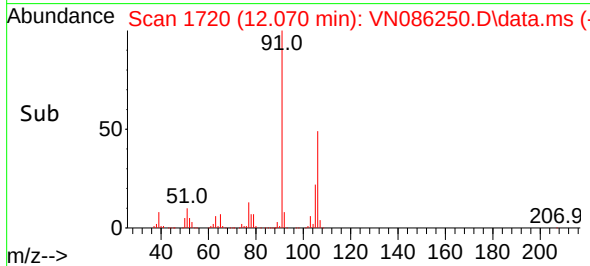
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:106 Resp: 203138
Ion Ratio Lower Upper
106 100
91 205.7 164.5 246.7

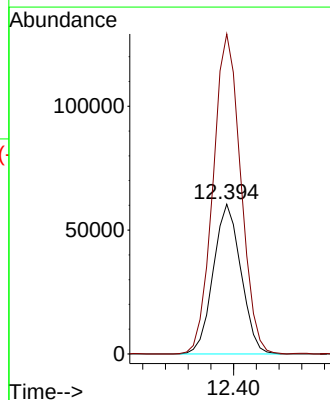
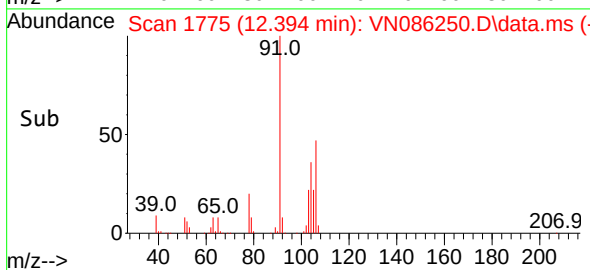
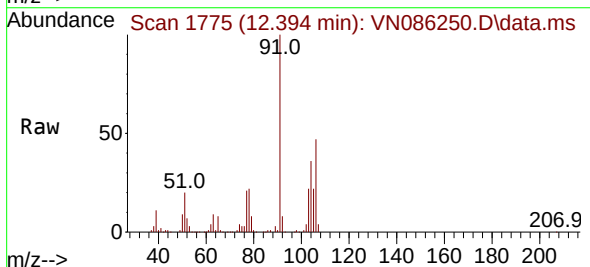
Manual Integrations
APPROVED

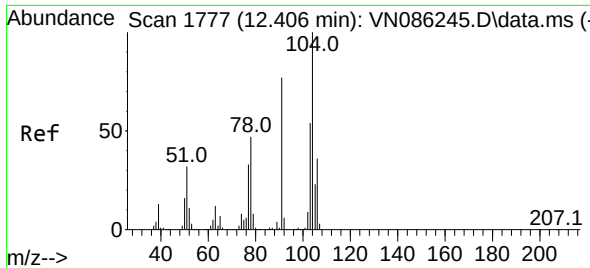
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 20.842 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

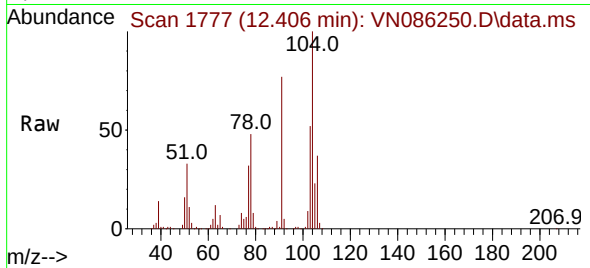
Tgt Ion:106 Resp: 102269
Ion Ratio Lower Upper
106 100
91 214.0 109.8 329.4





#69
Styrene
Concen: 20.872 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

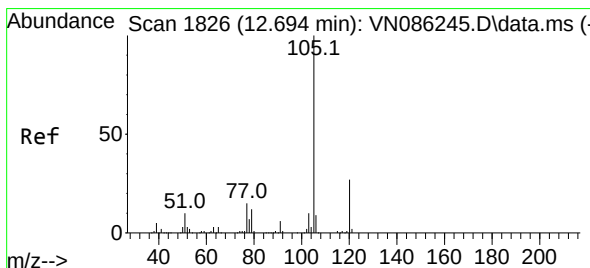
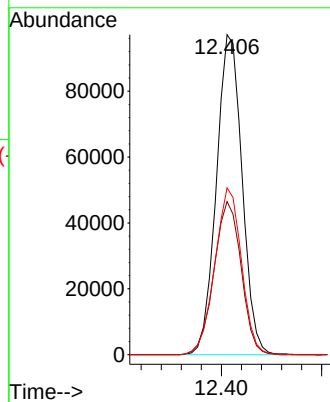
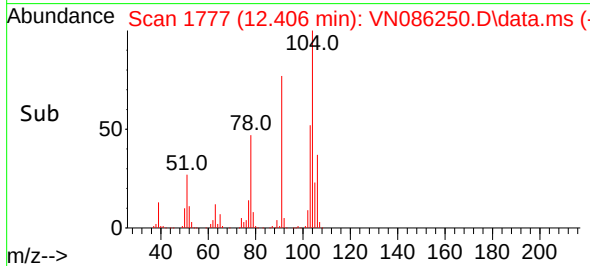
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:104 Resp: 17272
Ion Ratio Lower Upper
104 100
78 50.6 41.4 62.0
103 54.0 44.2 66.4

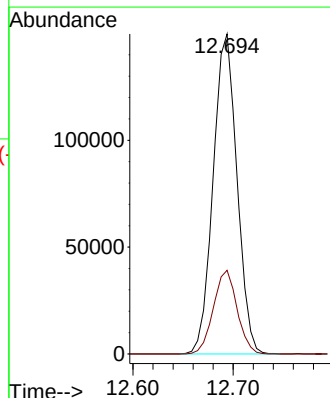
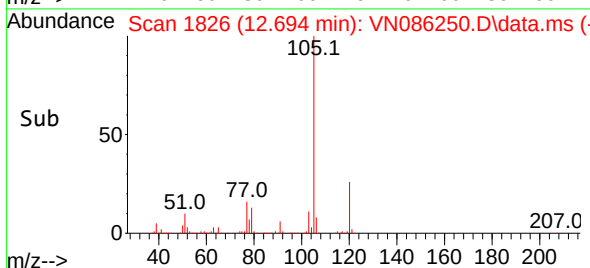
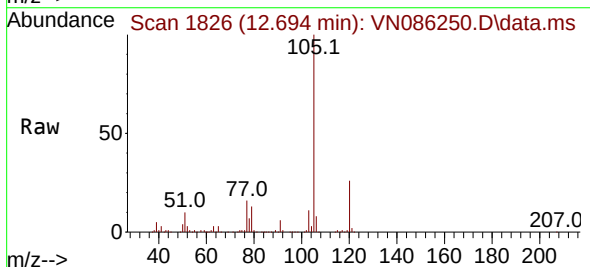
Manual Integrations
APPROVED

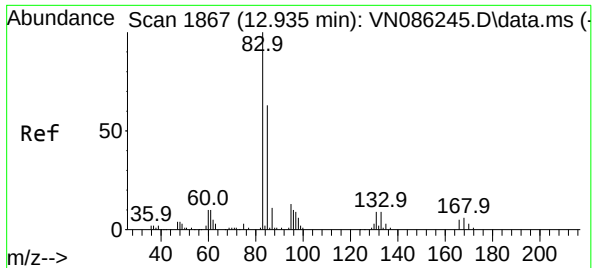
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 20.417 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

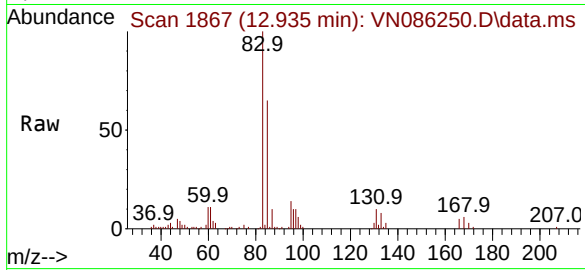
Tgt Ion:105 Resp: 247015
Ion Ratio Lower Upper
105 100
120 25.9 18.3 34.1





#71
1,1,2,2-Tetrachloroethane
Concen: 21.612 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

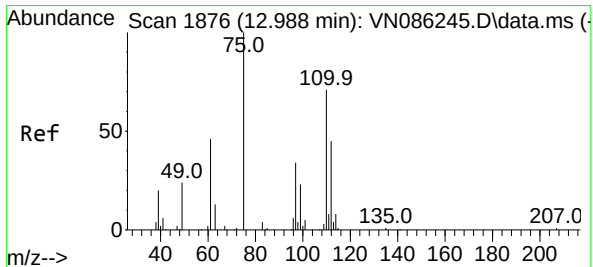
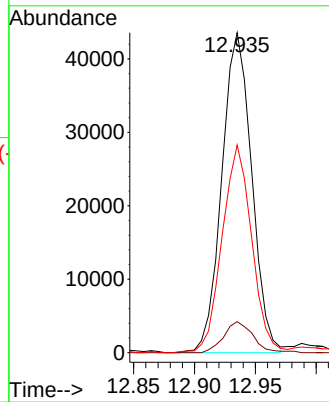
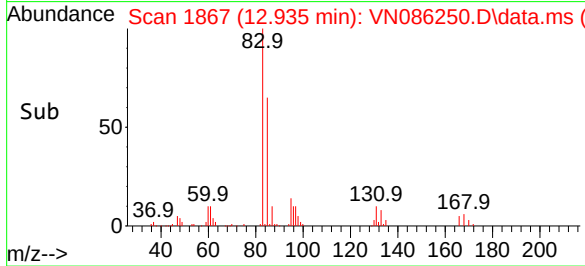
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 83 Resp: 74420
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.3
85 63.0 32.3 96.8

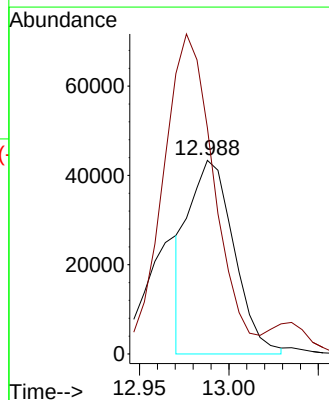
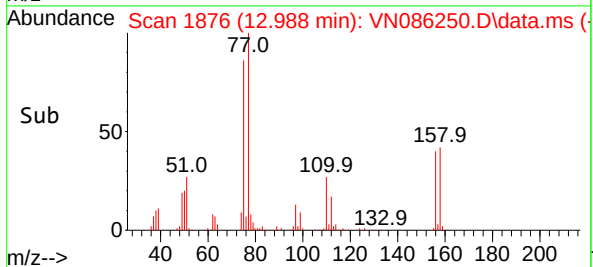
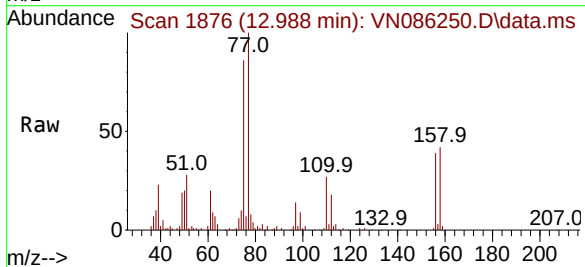
Manual Integrations
APPROVED

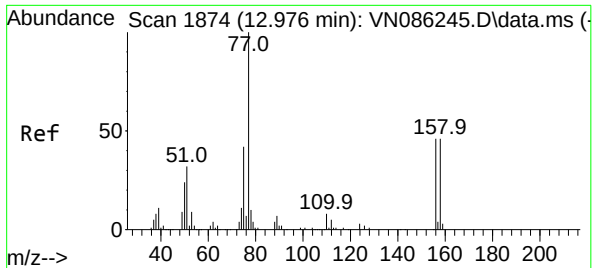
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 21.289 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 75 Resp: 76312
Ion Ratio Lower Upper
75 100
77 187.9 0.0 380.0





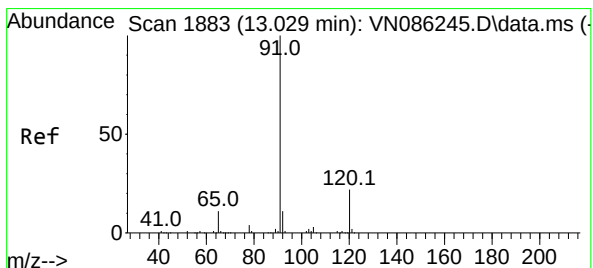
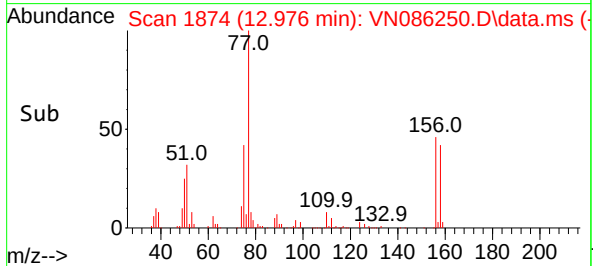
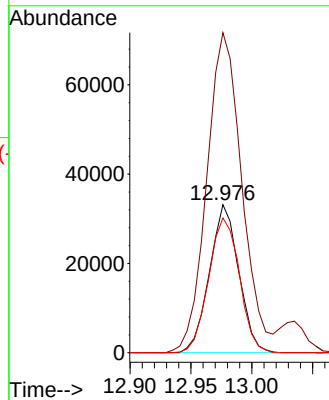
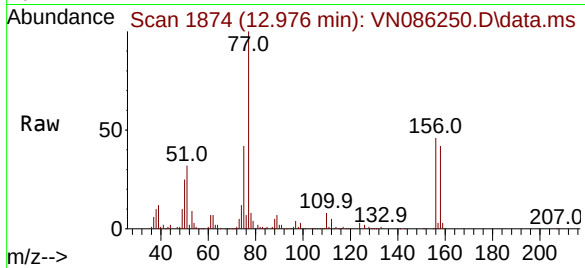
#73
Bromobenzene
Concen: 20.660 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion:156 Resp: 55372
Ion Ratio Lower Upper
156 100
77 258.9 0.0 505.2
158 95.5 0.0 195.0

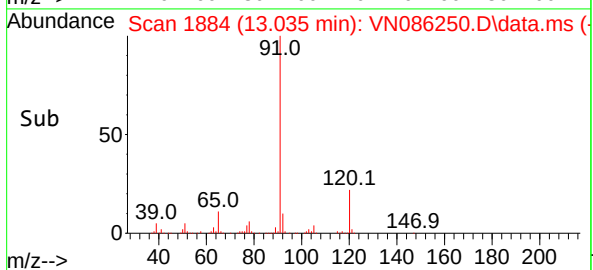
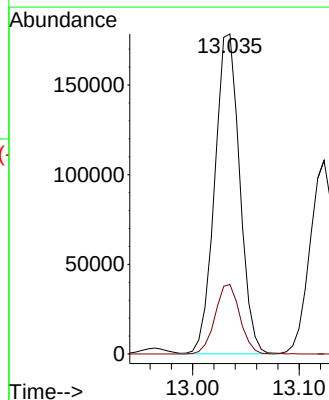
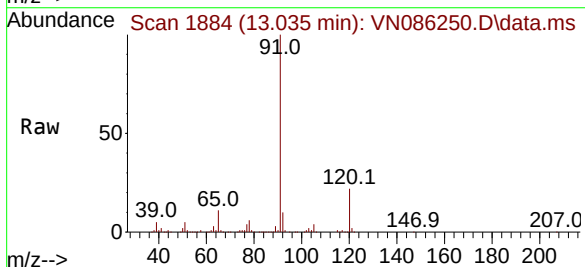
Manual Integrations
APPROVED

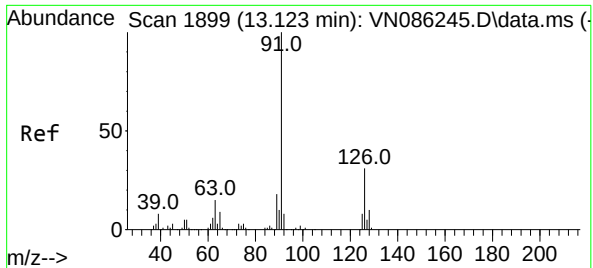
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 20.330 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 91 Resp: 290430
Ion Ratio Lower Upper
91 100
120 21.5 0.0 44.0





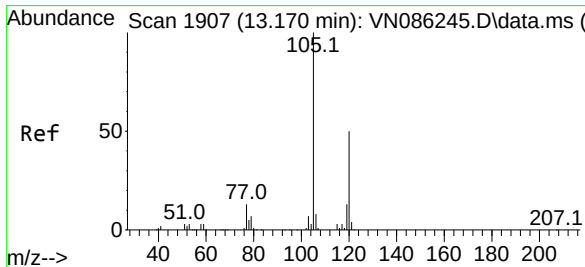
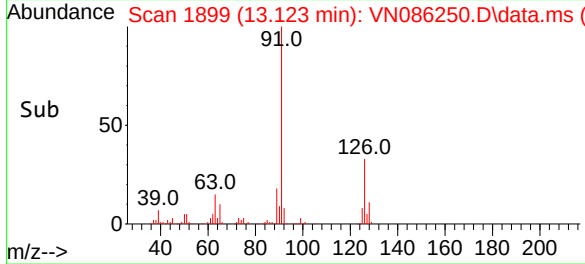
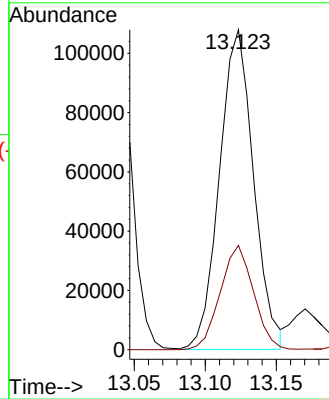
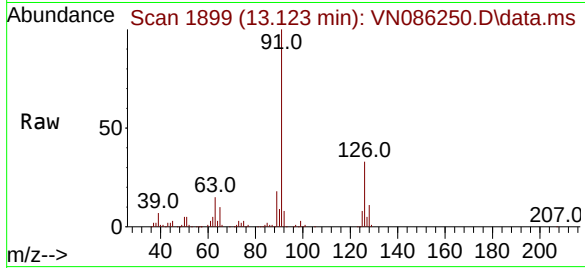
#75
2-Chlorotoluene
Concen: 20.074 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion: 91 Resp: 18025
Ion Ratio Lower Upper
91 100
126 31.8 0.0 63.4

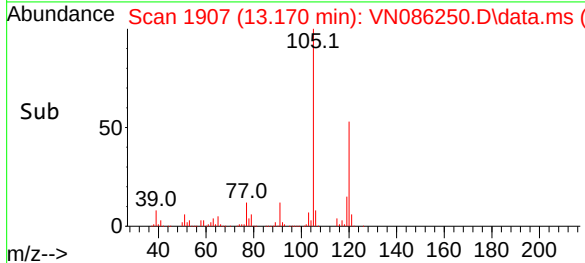
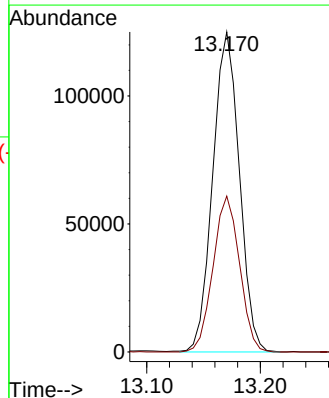
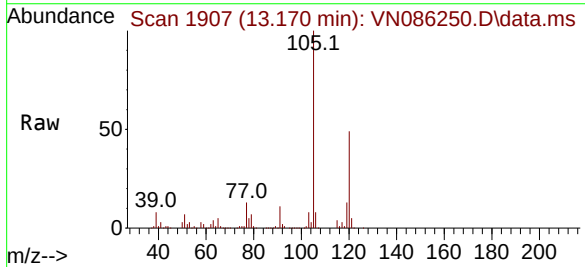
Manual Integrations
APPROVED

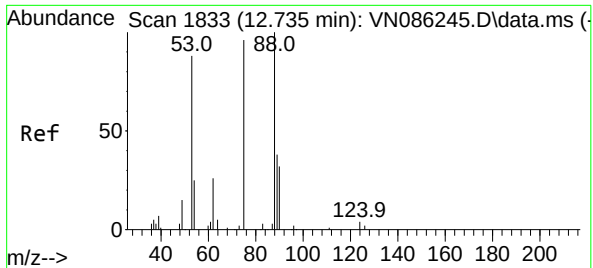
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.450 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

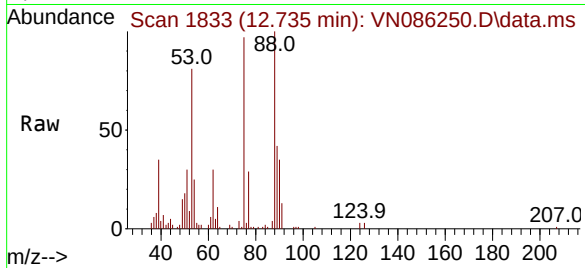
Tgt Ion:105 Resp: 203242
Ion Ratio Lower Upper
105 100
120 48.5 0.0 98.0





#77
t-1,4-Dichloro-2-butene
Concen: 20.436 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

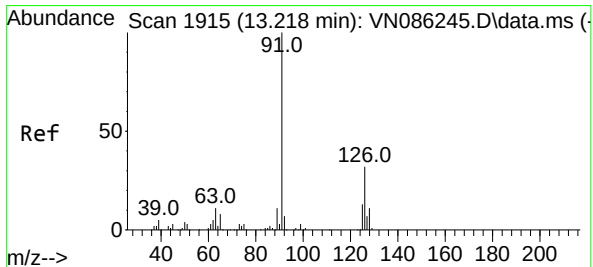
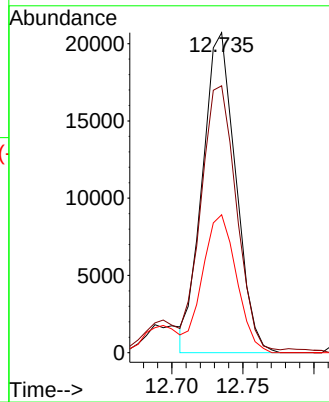
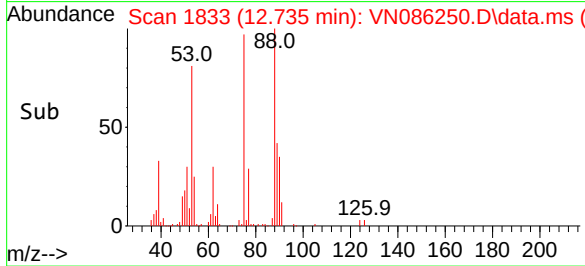
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion: 75 Resp: 33778
Ion Ratio Lower Upper
75 100
53 82.5 46.4 139.2
89 43.1 22.5 67.5

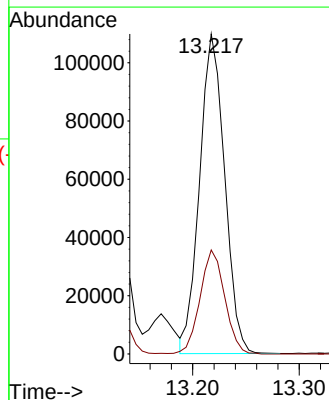
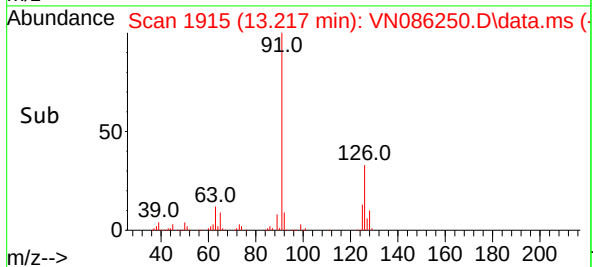
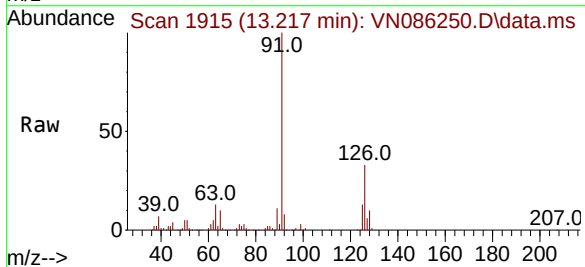
Manual Integrations
APPROVED

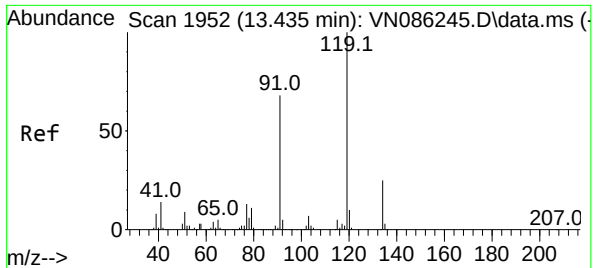
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 19.997 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

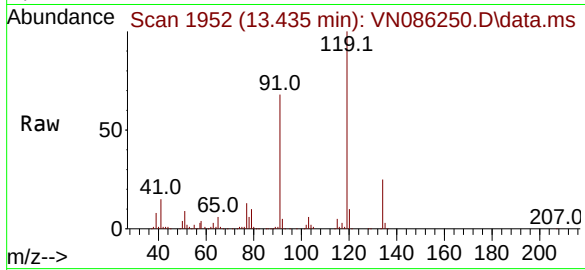
Tgt Ion: 91 Resp: 179336
Ion Ratio Lower Upper
91 100
126 32.1 0.0 63.2





#79
tert-butylbenzene
Concen: 19.806 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

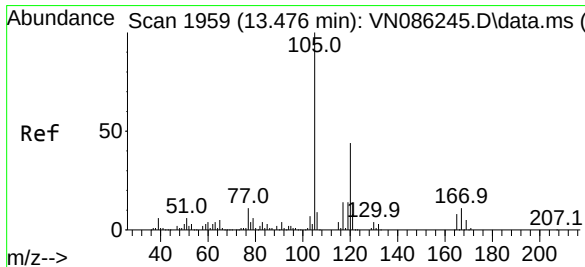
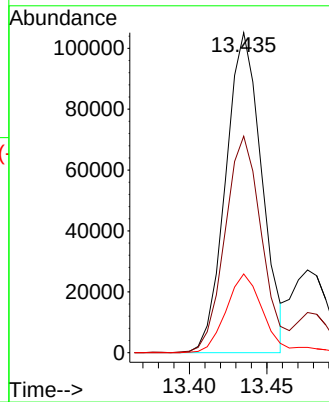
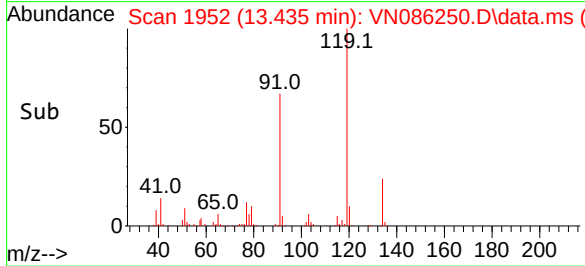
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



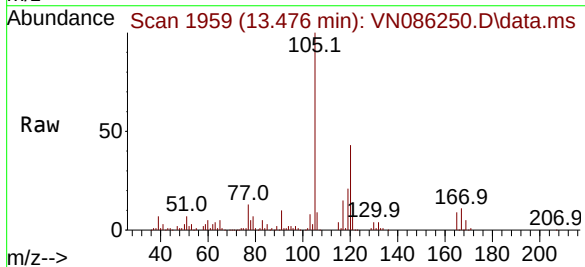
Tgt Ion:119 Resp: 170320
Ion Ratio Lower Upper
119 100
91 69.3 0.0 136.6
134 24.5 0.0 49.4

Manual Integrations
APPROVED

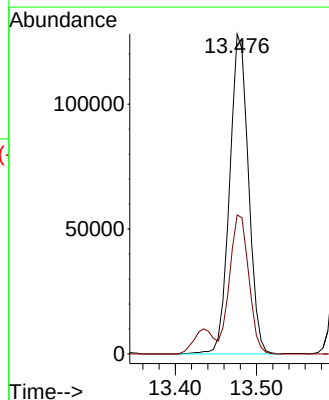
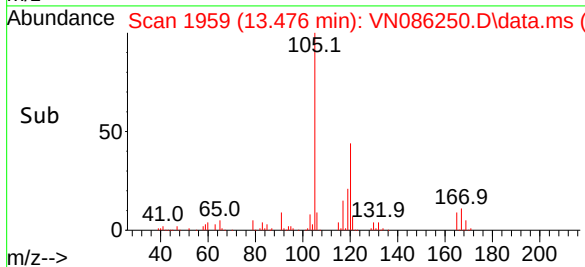
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

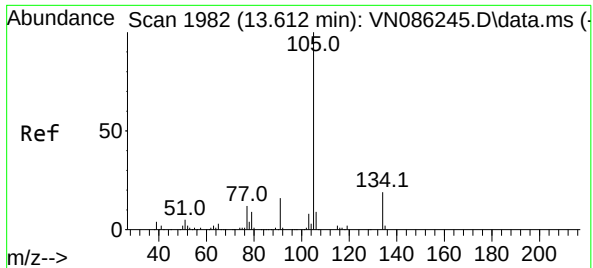


#80
1,2,4-Trimethylbenzene
Concen: 20.464 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16



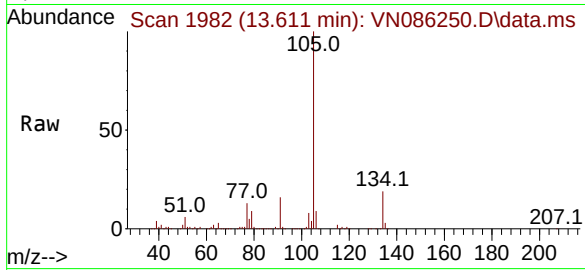
Tgt Ion:105 Resp: 206236
Ion Ratio Lower Upper
105 100
120 44.1 0.0 91.0





#81
sec-Butylbenzene
Concen: 20.202 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

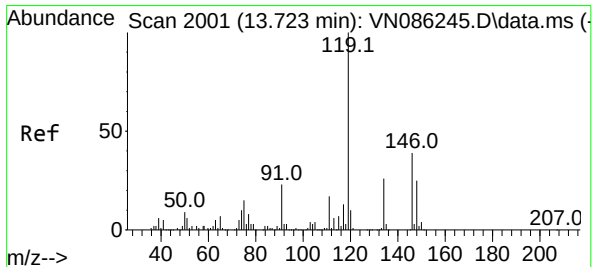
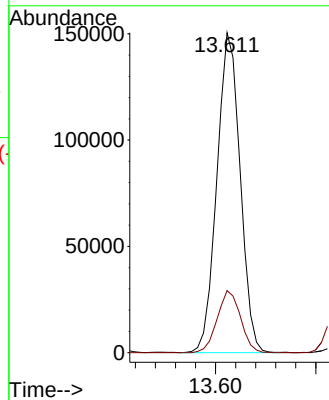
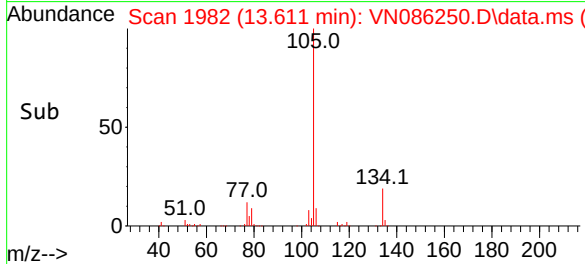
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:105 Resp: 242330
Ion Ratio Lower Upper
105 100
134 19.4 0.0 38.6

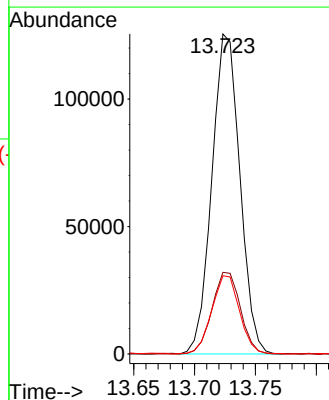
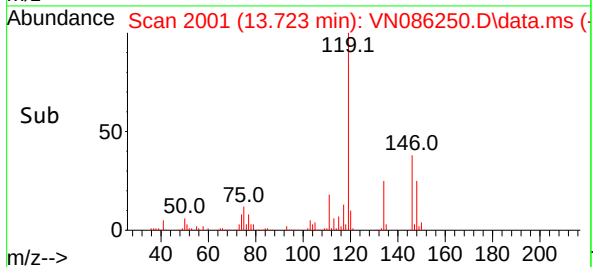
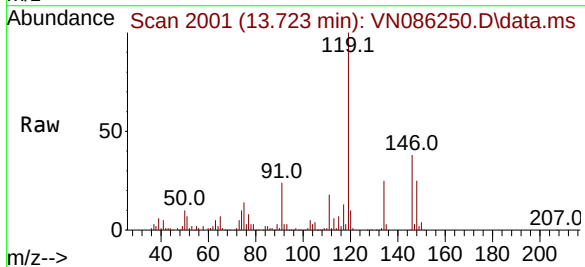
Manual Integrations
APPROVED

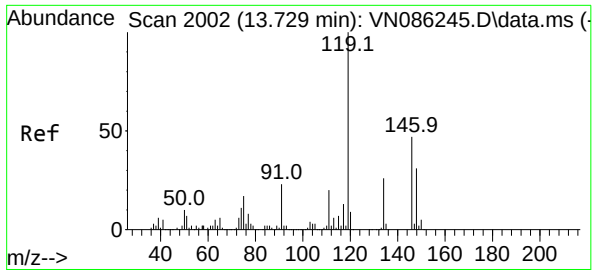
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 20.098 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

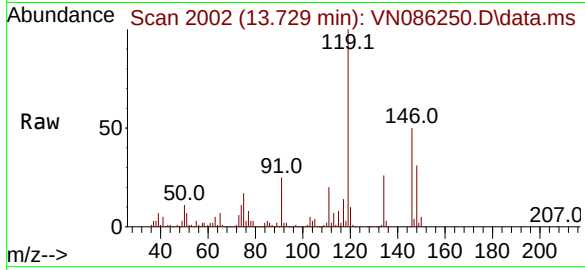
Tgt Ion:119 Resp: 201123
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 24.4 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 20.332 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

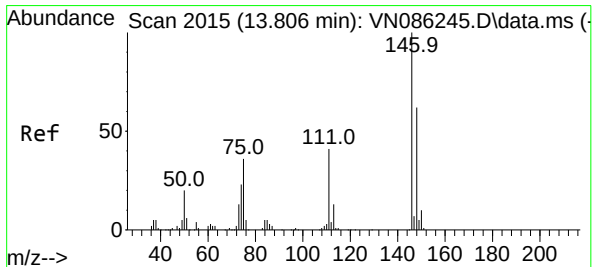
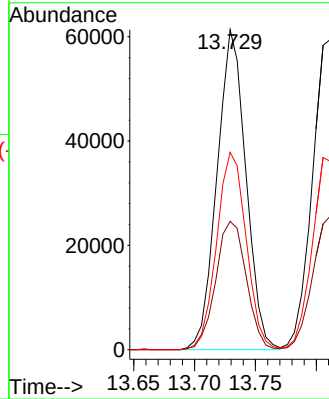
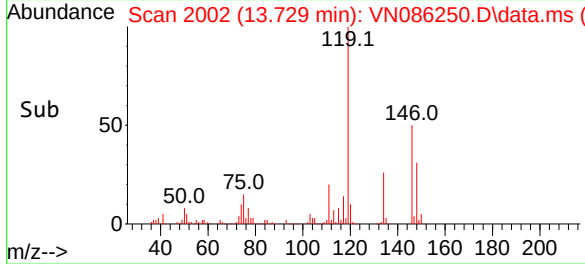
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01



Tgt Ion:146 Resp: 10128
Ion Ratio Lower Upper
146 100
111 42.6 21.7 65.1
148 63.1 32.3 96.8

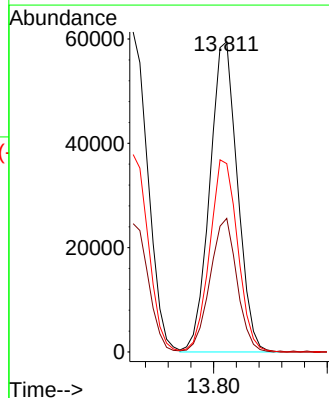
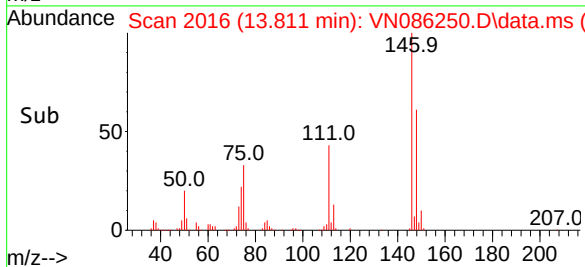
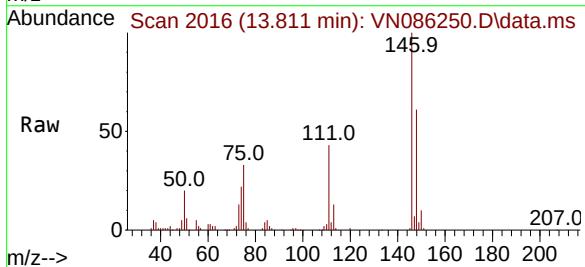
Manual Integrations
APPROVED

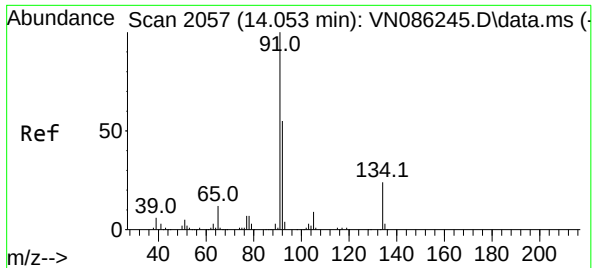
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#84
1,4-Dichlorobenzene
Concen: 20.144 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:146 Resp: 100671
Ion Ratio Lower Upper
146 100
111 41.9 20.8 62.4
148 62.5 31.9 95.5





#85

n-Butylbenzene

Concen: 20.279 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion: 91 Resp: 18306

Ion Ratio Lower Upper

91 100

92 53.4 0.0 109.4

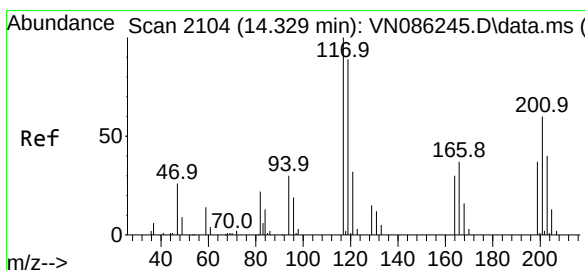
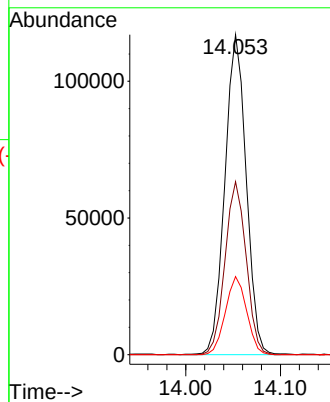
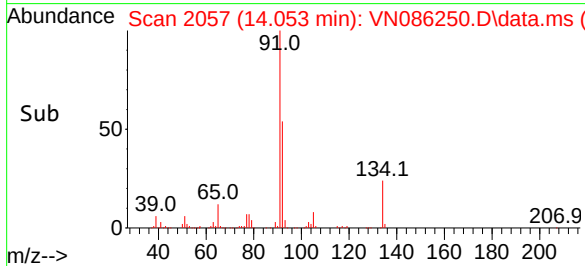
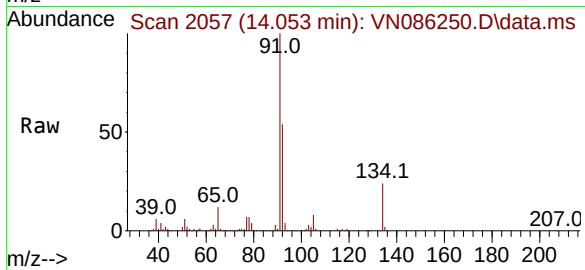
134 24.2 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 19.494 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086250.D

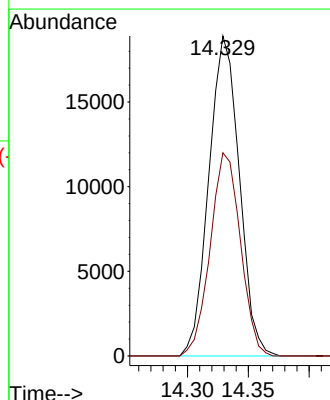
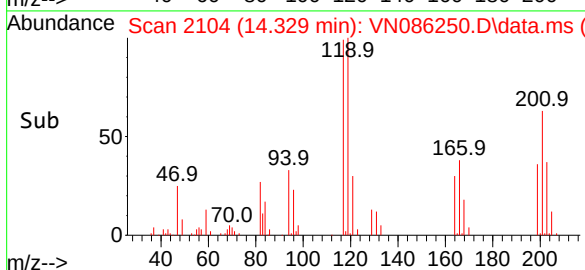
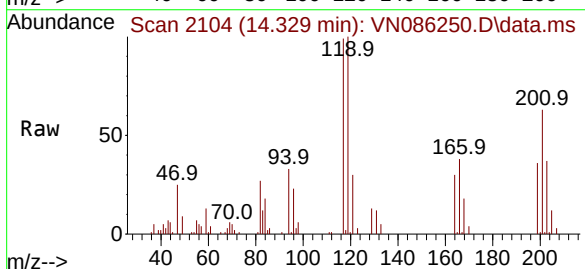
Acq: 11 Apr 2025 15:16

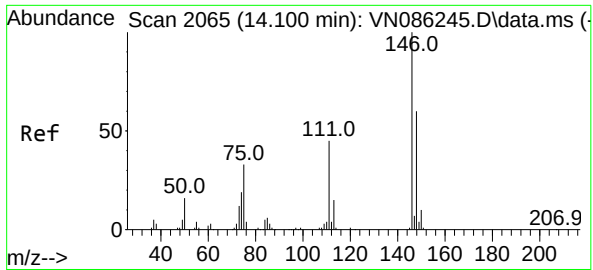
Tgt Ion:117 Resp: 32907

Ion Ratio Lower Upper

117 100

201 63.0 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 20.514 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

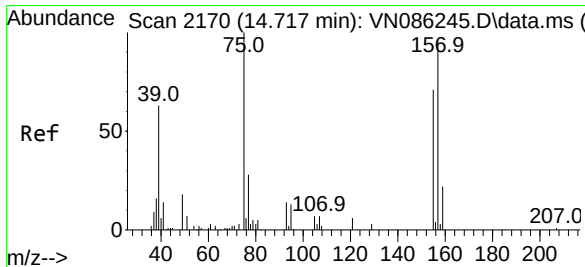
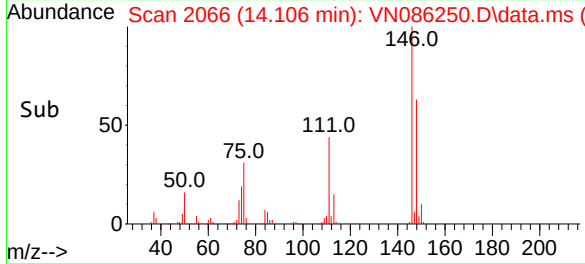
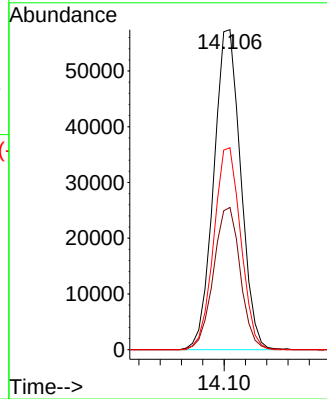
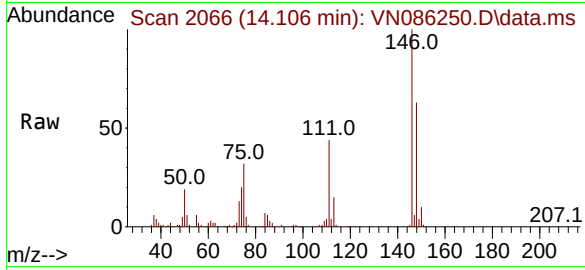
Tgt Ion:	146	Resp:	10090
Ion Ratio	Lower	Upper	
146	100		
111	44.3	22.7	68.0
148	63.1	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.539 ug/l

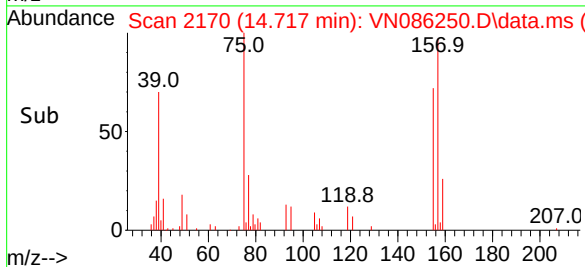
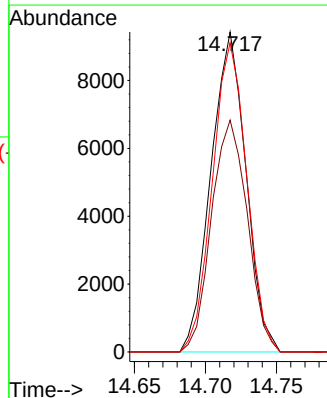
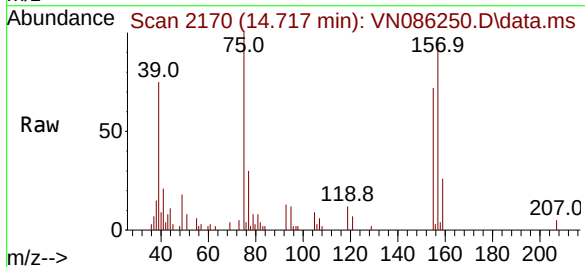
RT: 14.717 min Scan# 2170

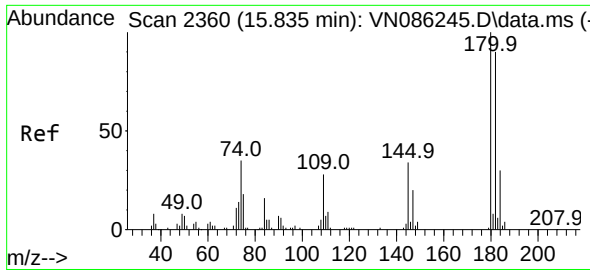
Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion:	75	Resp:	16110
Ion Ratio	Lower	Upper	
75	100		
155	74.4	60.3	90.5
157	95.2	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 20.472 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

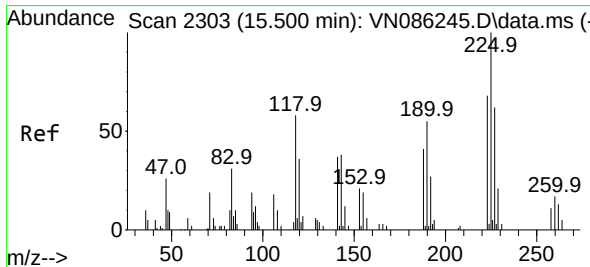
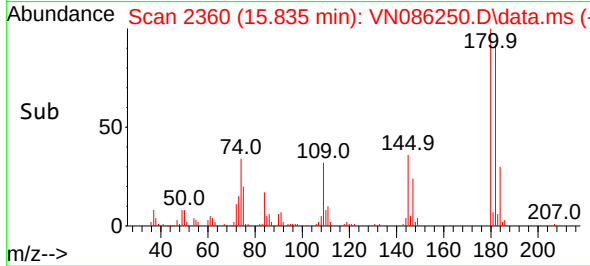
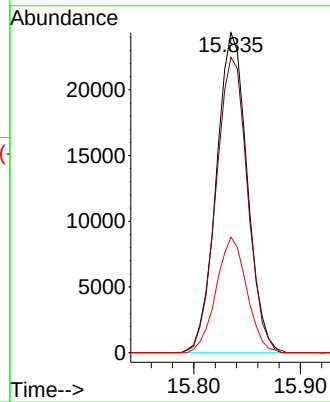
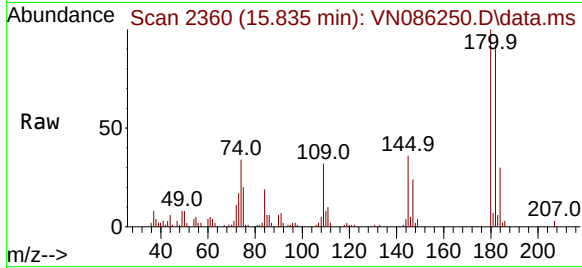
Tgt Ion:	180	Resp:	4899
Ion Ratio	Lower	Upper	
180	100		
182	94.3	75.1	112.7
145	35.7	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 19.213 ug/l

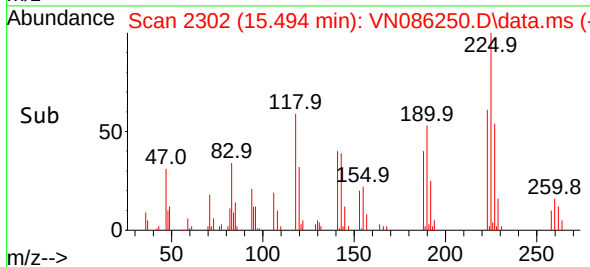
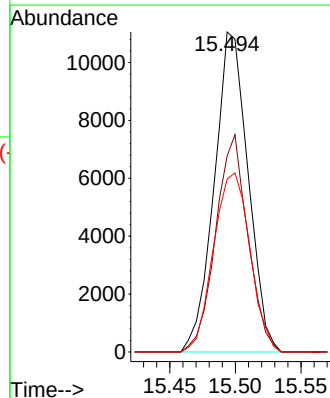
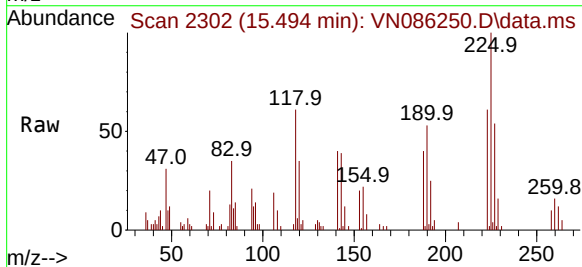
RT: 15.494 min Scan# 2302

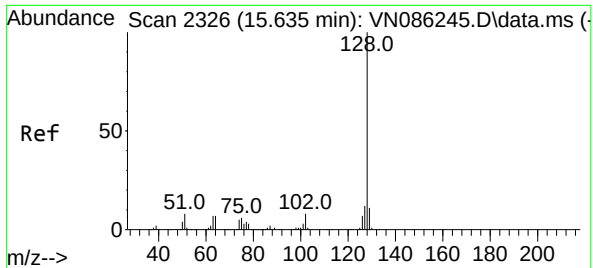
Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion:	225	Resp:	19853
Ion Ratio	Lower	Upper	
225	100		
223	64.4	0.0	130.0
227	60.3	0.0	123.2





#91

Naphthalene

Concen: 20.655 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

Tgt Ion:128 Resp: 194900

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

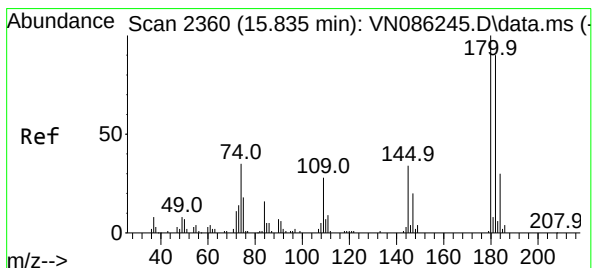
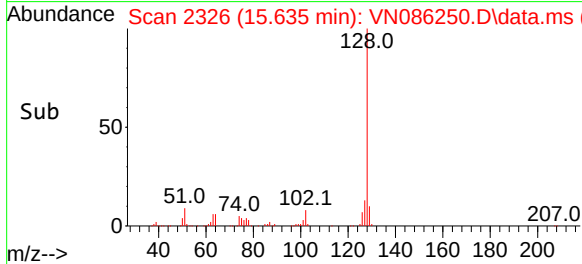
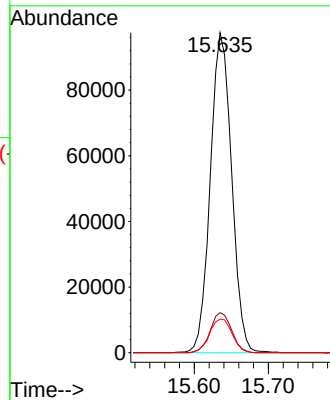
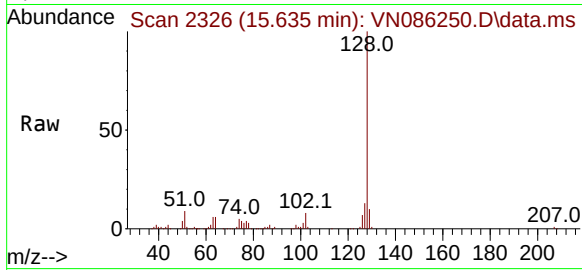
129 11.1 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#92

1,2,3-Trichlorobenzene

Concen: 20.472 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

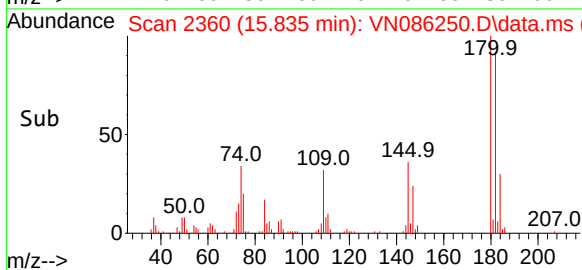
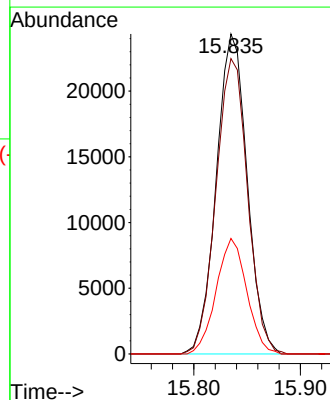
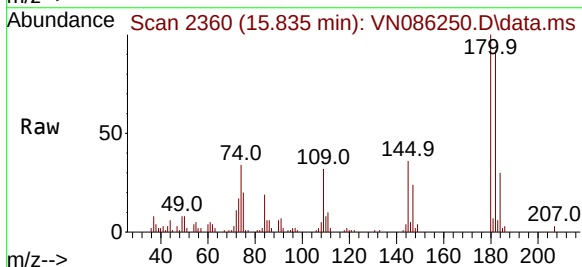
Tgt Ion:180 Resp: 48993

Ion Ratio Lower Upper

180 100

182 94.3 0.0 187.8

145 35.7 0.0 67.8



Manual Integration Report

Sequence:	VN041125	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN086242.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:12 AM	MMDadoda	4/14/2025 3:43:46 PM	Peak Integrated by Software
VSTDICC050	VN086244.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:21 AM	MMDadoda	4/14/2025 3:43:50 PM	Peak Integrated by Software
VSTDICCC020	VN086245.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:25 AM	MMDadoda	4/14/2025 3:43:52 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	Methyl Iodide	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	Methyl tert-Butyl Ether	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	trans-1,2-Dichloroethene	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICV020	VN086248.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:35 AM	MMDadoda	4/14/2025 3:43:56 PM	Peak Integrated by Software
VN0411WBS01	VN086249.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:40 AM	MMDadoda	4/14/2025 3:43:58 PM	Peak Integrated by Software
VN0411WBSD01	VN086250.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:44 AM	MMDadoda	4/14/2025 3:44:00 PM	Peak Integrated by Software
Q1774-03	VN086253.D	Acetone	JOHN	4/14/2025 9:13:05 AM	MMDadoda	4/14/2025 3:44:02 PM	Peak Integrated by Software
Q1774-04	VN086254.D	1,1,2-Trichlorotrifluoroethane	JOHN	4/14/2025 9:13:09 AM	MMDadoda	4/14/2025 3:44:04 PM	Peak Integrated by Software
Q1774-04	VN086254.D	Acetone	JOHN	4/14/2025 9:13:09 AM	MMDadoda	4/14/2025 3:44:04 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	VN041125	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN086255.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:13:15 AM	MMDadoda	4/14/2025 3:44:07 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN041125

Review By	John Carlone	Review On	4/14/2025 9:15:54 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/14/2025 3:45:12 PM
SubDirectory	VN041125	HP Acquire Method	HP Processing Method 624N041125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133643		
Initial Calibration Stds	VP133645,VP133646,VP133647,VP133648,VP133649		
CCC	VP133644		
Internal Standard/PEM			
ICV/I.BLK	VP133650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086241.D	11 Apr 2025 09:52	JC\MD	Ok
2	VSTDICC100	VN086242.D	11 Apr 2025 11:04	JC\MD	Ok,M
3	VSTDICC050	VN086243.D	11 Apr 2025 11:28	JC\MD	Not Ok
4	VSTDICC050	VN086244.D	11 Apr 2025 11:52	JC\MD	Ok,M
5	VSTDICCC020	VN086245.D	11 Apr 2025 12:16	JC\MD	Ok,M
6	VSTDICC005	VN086246.D	11 Apr 2025 12:40	JC\MD	Ok,M
7	IBLK	VN086247.D	11 Apr 2025 13:04	JC\MD	Ok
8	VSTDICV020	VN086248.D	11 Apr 2025 13:34	JC\MD	Ok,M
9	VN0411WBS01	VN086249.D	11 Apr 2025 14:38	JC\MD	Ok,M
10	VN0411WBSD01	VN086250.D	11 Apr 2025 15:16	JC\MD	Ok,M
11	VN0411WBL01	VN086251.D	11 Apr 2025 15:40	JC\MD	Ok
12	Q1774-02	VN086252.D	11 Apr 2025 16:15	JC\MD	Ok
13	Q1774-03	VN086253.D	11 Apr 2025 16:39	JC\MD	Ok,M
14	Q1774-04	VN086254.D	11 Apr 2025 17:03	JC\MD	Ok,M
15	VSTDCCC020	VN086255.D	11 Apr 2025 17:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041125

Review By	John Carlone	Review On	4/14/2025 9:15:54 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/14/2025 3:45:12 PM
SubDirectory	VN041125	HP Acquire Method	HP Processing Method 624N041125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133643		
Initial Calibration Stds	VP133645,VP133646,VP133647,VP133648,VP133649		
CCC	VP133644		
Internal Standard/PEM			
ICV/I.BLK	VP133650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086241.D	11 Apr 2025 09:52		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN086242.D	11 Apr 2025 11:04	pH#Lot#V12668	JC\MD	Ok,M
3	VSTDICC050	VSTDICC050	VN086243.D	11 Apr 2025 11:28	Spike error	JC\MD	Not Ok
4	VSTDICC050	VSTDICC050	VN086244.D	11 Apr 2025 11:52		JC\MD	Ok,M
5	VSTDICCC020	VSTDICCC020	VN086245.D	11 Apr 2025 12:16	Method fail for comp.#55	JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN086246.D	11 Apr 2025 12:40		JC\MD	Ok,M
7	IBLK	IBLK	VN086247.D	11 Apr 2025 13:04		JC\MD	Ok
8	VSTDICV020	ICVVN041125	VN086248.D	11 Apr 2025 13:34		JC\MD	Ok,M
9	VN0411WBS01	VN0411WBS01	VN086249.D	11 Apr 2025 14:38		JC\MD	Ok,M
10	VN0411WBSD01	VN0411WBSD01	VN086250.D	11 Apr 2025 15:16		JC\MD	Ok,M
11	VN0411WBL01	VN0411WBL01	VN086251.D	11 Apr 2025 15:40		JC\MD	Ok
12	Q1774-02	TT-073-IDWGW-20250	VN086252.D	11 Apr 2025 16:15	vial A+B pH<2	JC\MD	Ok
13	Q1774-03	TT-074-IDWGW-20250	VN086253.D	11 Apr 2025 16:39	vial A+B pH<2	JC\MD	Ok,M
14	Q1774-04	TT-075-IDWGW-20250	VN086254.D	11 Apr 2025 17:03	vial A+B pH<2	JC\MD	Ok,M
15	VSTDCCC020	VSTDCCC020EC	VN086255.D	11 Apr 2025 17:28		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1774

Test : VOCMS Group4

Prepbatch ID :

Sequence ID/Qc Batch ID: VN041125,

Standard ID :

VP131767,VP132035,VP132037,VP132101,VP133251,VP133342,VP133344,VP133346,VP133544,VP133546,VP133608,VP133643,VP133644,VP133645,VP133646,VP133647,VP133648,VP133649,VP133650,

Chemical ID :

V13391,V13449,V13582,V13822,V14127,V14154,V14180,V14195,V14423,V14431,V14435,V14501,V14502,V14523,V14524,V14580,V14614,V14615,V14624,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14794,V14804,V14805,V14842,V14883,V14885,V14896,V14897,V14898,V14899,V14900,V14901,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>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = 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>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 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>
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml of V14614 = 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 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>
466	624 Internal Standard and Surrogate Mix, 150PPM	VP133251	03/12/2025	07/02/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/21/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.75000ml of V14624 = 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	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = 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>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP133344	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 17.50000ml of V14883 + 2.50000ml of VP133342 = Final Quantity: 20.000 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>
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP133346	03/18/2025	04/15/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 0.60000ml of V14901 + 1.00000ml of V14900 + 8.40000ml of V14883 = Final Quantity: 10.000 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	VP133544	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025
<u>FROM</u>	0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = 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>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP133546	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025
<u>FROM</u> 17.50000ml of V14615 + 2.50000ml of VP133544 = 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>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP133608	04/04/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 04/07/2025

FROM 0.16000ml of V13449 + 0.80000ml of V13822 + 0.80000ml of V14127 + 0.80000ml of V14180 + 0.80000ml of V14423 +
0.80000ml of V14794 + 1.60000ml of V14195 + 4.24000ml of V14615 = Final Quantity: 10.000 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	VP133643	04/11/2025	04/12/2025	John Carlone	None	None	Maresh Dadoda 04/15/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 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>
645	20 PPB CCC, 624	VP133644	04/11/2025	04/12/2025	John Carlone	None	None	Maresh Dadoda
								04/15/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP132035 + 0.00500ml of VP133342 + 0.00500ml of VP133544 + 0.00800ml of VP133251 = Final Quantity: 40.000 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>
637	5 PPB ICC, 624	VP133645	04/11/2025	04/12/2025	John Carlone	None	None	Maresh Dadoda
								04/15/2025

FROM 39.96200ml of W3112 + 0.00800ml of VP133251 + 0.01000ml of VP132037 + 0.01000ml of VP133344 + 0.01000ml of VP133546 = Final Quantity: 40.000 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>
639	20 PPB ICC, 624	VP133646	04/11/2025	04/12/2025	John Carlone	None	None	Mahesh Dadoda 04/15/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP132035 + 0.00500ml of VP133342 + 0.00500ml of VP133544 + 0.00800ml of VP133251 = Final Quantity: 40.000 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>
640	50 PPB ICC, 624	VP133647	04/11/2025	04/12/2025	John Carlone	None	None	Mahesh Dadoda 04/15/2025

FROM 39.95450ml of W3112 + 0.00800ml of VP133251 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 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>
642	100 PPB ICC, 624	VP133648	04/11/2025	04/12/2025	John Carlone	None	None	Mahesh Dadoda 04/15/2025

FROM 39.91700ml of W3112 + 0.00800ml of VP133251 + 0.02500ml of VP132035 + 0.02500ml of VP133342 + 0.02500ml of VP133544 = Final Quantity: 40.000 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>
643	150 PPB ICC, 624	VP133649	04/11/2025	04/12/2025	John Carlone	None	None	Mahesh Dadoda 04/15/2025

FROM 39.87950ml of W3112 + 0.00800ml of VP133251 + 0.03750ml of VP132035 + 0.03750ml of VP133342 + 0.03750ml of VP133544 = Final Quantity: 40.000 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>
644	20 PPB ICV, 624	VP133650	04/11/2025	04/12/2025	John Carlone	None	None	Mahesh Dadoda 04/15/2025
<u>FROM</u> 39.97000ml of W3112 + 0.00500ml of VP132101 + 0.00500ml of VP133346 + 0.00500ml of VP133608 + 0.00800ml of VP133251 = Final Quantity: 40.000 ml								

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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

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	A0197644	09/30/2025	03/31/2025 / SAM	05/31/2023 / SAM	V13822

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)	011624	09/30/2025	03/31/2025 / SAM	01/17/2024 / SAM	V14127

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	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

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)	021524	09/30/2025	03/31/2025 / SAM	02/20/2024 / SAM	V14180

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	A0200785	09/30/2025	03/31/2025 / SAM	02/28/2024 / SAM	V14195

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	A0205013	06/30/2025	03/31/2025 / SAM	08/15/2024 / SAM	V14423

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	V14431

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14502

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14523

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

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	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

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	09/19/2025	03/19/2025 / SAM	11/26/2024 / SAM	V14615

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)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

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	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14719

CHEMICAL RECEIPT LOG BOOK

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	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14720

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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

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	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14753

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	A0220563	09/30/2025	03/31/2025 / SAM	01/08/2025 / SAM	V14794

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14804

LOTS

CHEMICAL RECEIPT LOG BOOK

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14805

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	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

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	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031525	04/15/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14900

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031525	04/15/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14901

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

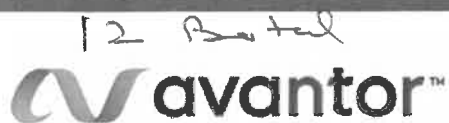
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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



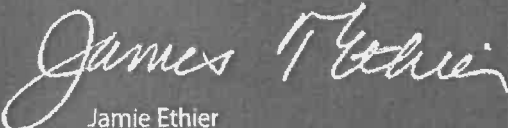
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

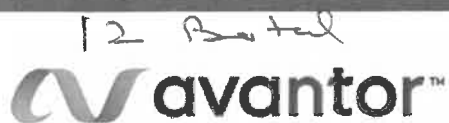
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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



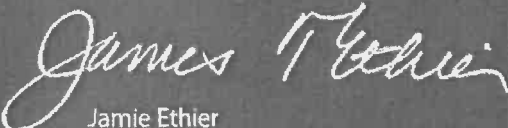
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

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



12



CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

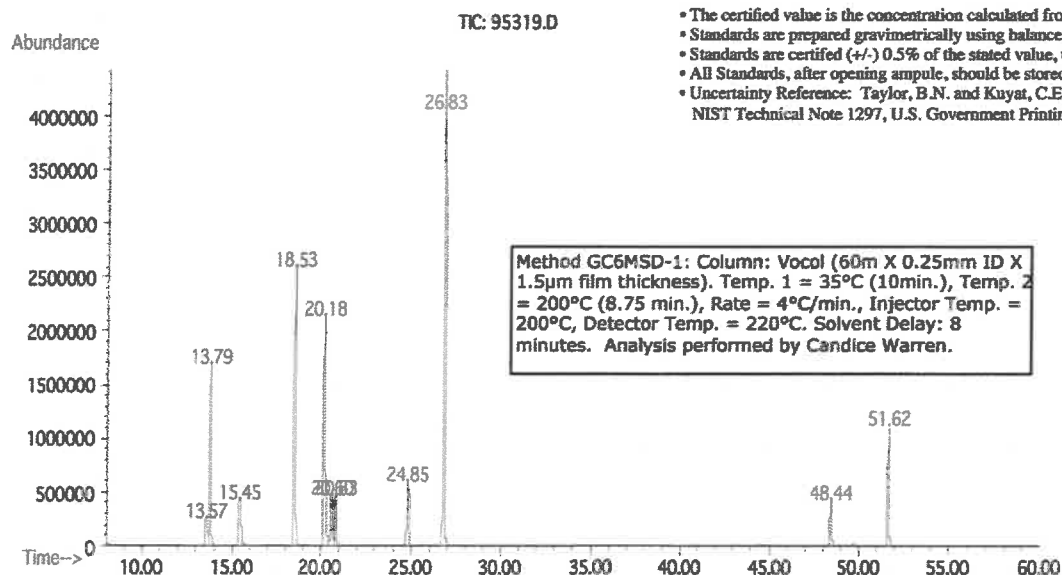
Solvent(s): **Lot#**
Methanol EH471-US

Expiration Date: **011627**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **Varied**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **100.0** **5E-05 Balance Uncertainty**
0.021 Flask Uncertainty

		011624
Formulated By:	Prashant Chauhan	DATE
		011624
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- 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).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

<i>Mario Luis</i>		021524
Formulated By:	Mario Luis	DATE
<i>Pedro L. Rentes</i>		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot Number	Dr. 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)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	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	0.21058	0.21060	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8716V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/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 2450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	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	0.20042	2001.7	8.1	98-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	78-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43mg/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 916mg/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-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-58-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	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 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-36-4	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 (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-06-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	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
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	894-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20001.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/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	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-9	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	108-93-4	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	107-08-2	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 1947mg/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	ure-mus 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	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	10061-01-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	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 62mg/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 836mg/kg
43. Trichloroethane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	78-01-8	50 ppm (270mg/m3/8h)	or-mus 2400mg/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	40005.0	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	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 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	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/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	95-63-6	N/A	or-rat 5g/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	108-67-8	N/A	or-rat 5000mg/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	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	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	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-6	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. 1,2-Dichlorobenzene																

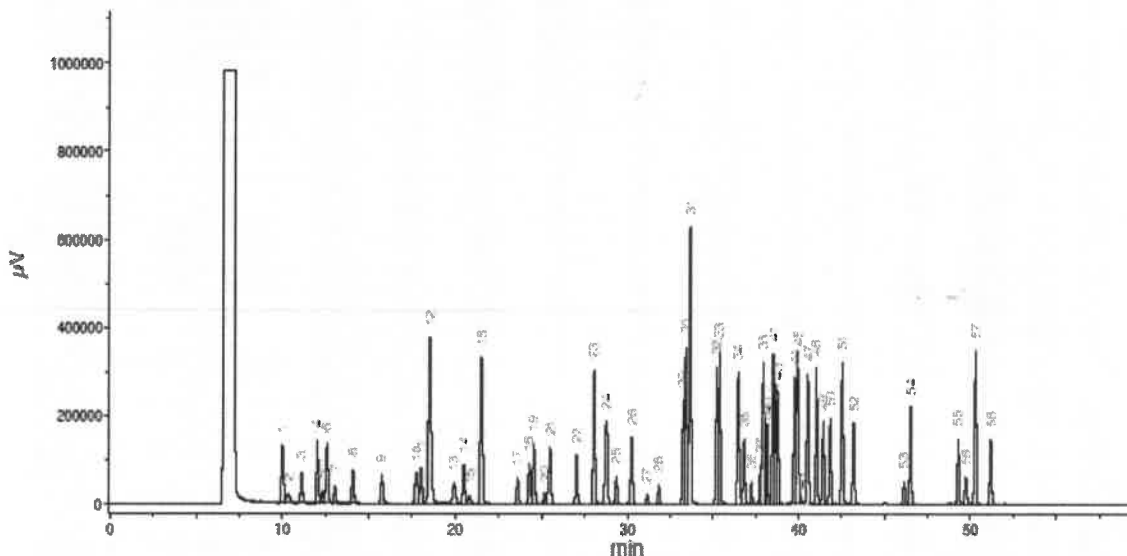


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Voccol 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	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16



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		

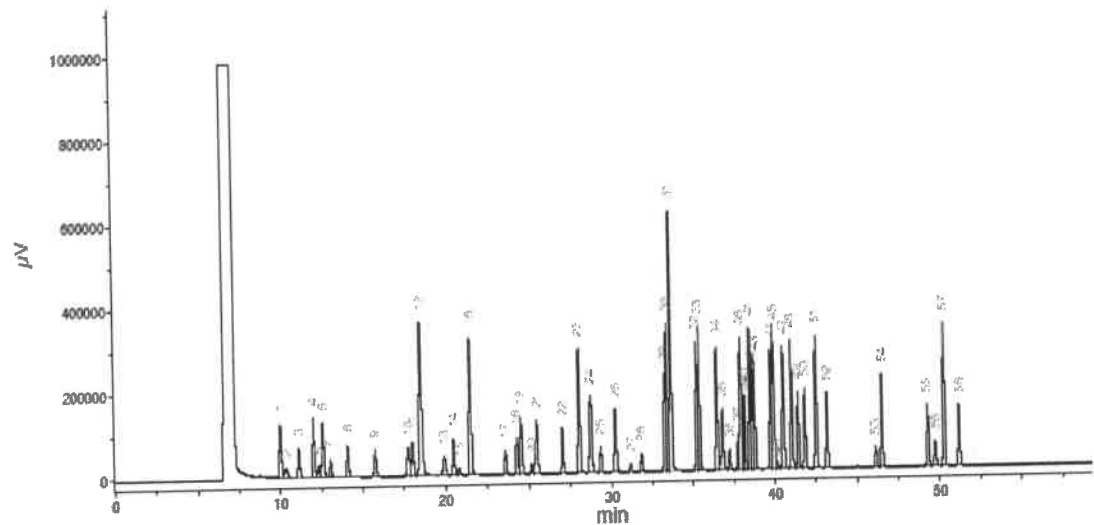
Compound	(KMe)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
1. 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 2450mg/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)	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	or-rat 14800mg/kg	
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 75mg/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)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	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	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	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 1235mg/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 933mg/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	20.5	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	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	86-12-8	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 1947mg/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	40006.0	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	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg	
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	1999.8	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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	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	1999.8	22.9	108-88-3	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	1999.6	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	108-87-8	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	135-98-8	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	1999.8	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	1999.8	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			



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	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
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	Methoxyvinylbenzene/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-Pentene	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	33.05
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-Isopropylbenzene	41.02
49	1,3-Dichlorobenzene	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)
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.



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		

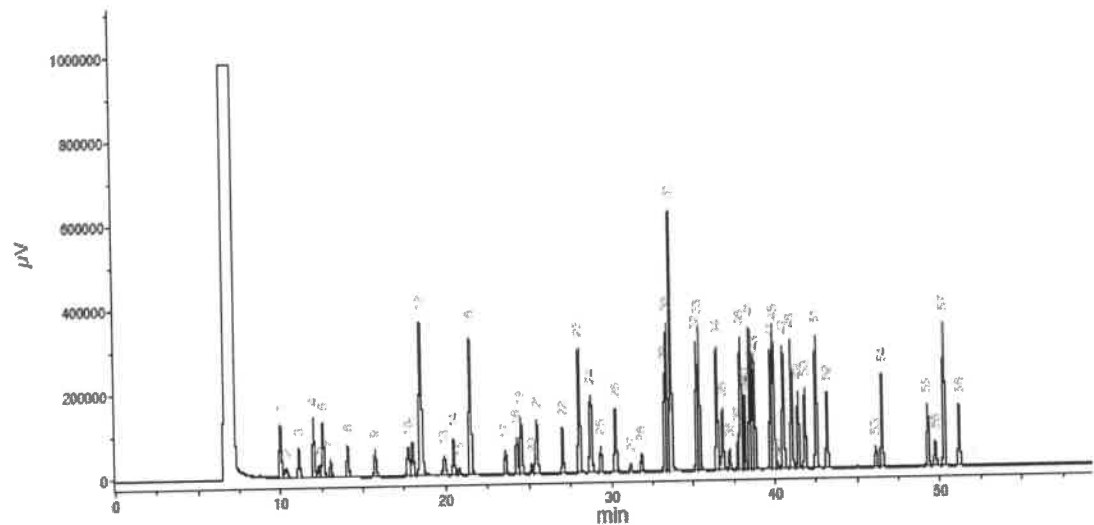
Compound	(KMe)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
1. 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 2450mg/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)	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	or-rat 14800mg/kg	
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 75mg/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)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	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	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	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 1235mg/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 933mg/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 106mg/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 1947mg/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	40006.0	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	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg	
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	1999.8	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	1999.8	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	22.9	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	108-87-8	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	135-98-8	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	1999.8	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	1999.8	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		



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	Acetone	12.00
5	Isodimethane	12.21
6	Allyl chloride	12.56
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	Methyl methacrylate/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	Trichloroethane	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-Dichloroethane	28.03
23	Toluene	28.73
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	33.05
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/Bromofluor	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-Isopropylbenzene	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	Hexachlorobutadiene	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))		
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)	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.



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **031525**
Description: **Acrolein**

Solvent(s): **2 Vial**
Water **072324Q**

V14900-901

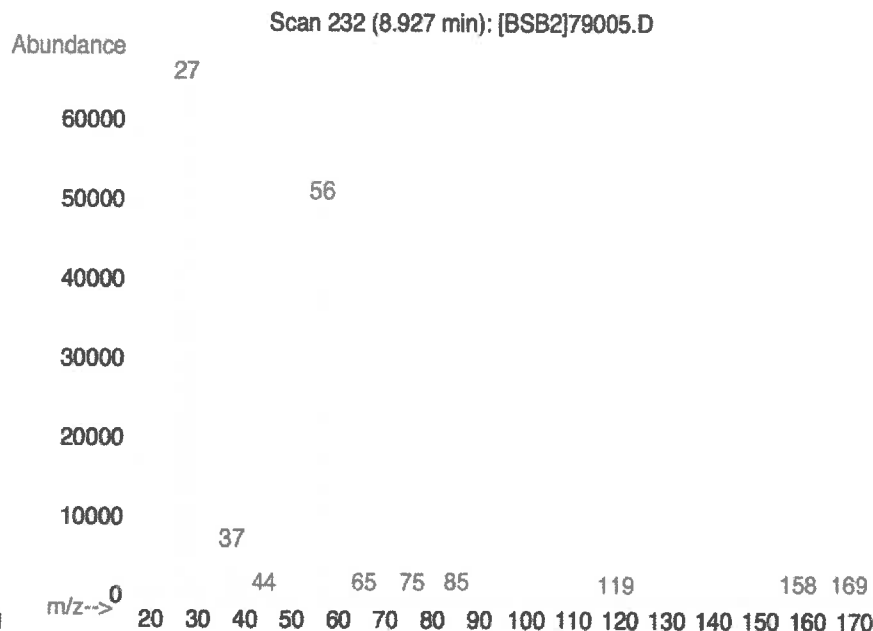
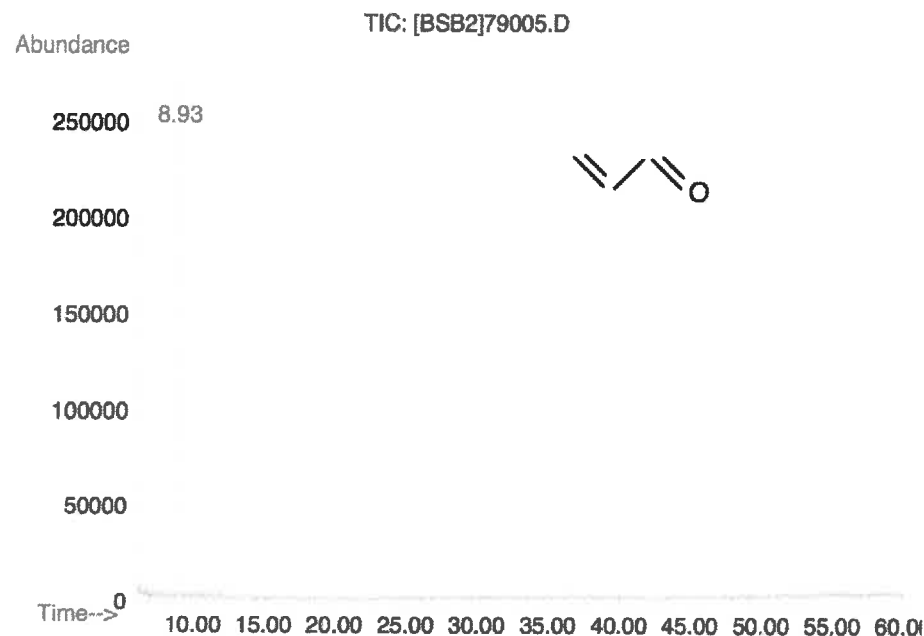
Expiration Date: **041525**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **5000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **10.0** **5E-05 Balance Uncertainty**
0.001 Flask Uncertainty

<i>Justin Dippold</i>		031525
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		031525
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	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 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



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **031525**
Description: **Acrolein**

Solvent(s): **2 Vial**
Water **072324Q**

V14900-901

Expiration Date: **041525**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **5000**
NIST Test ID#: **6UTB**

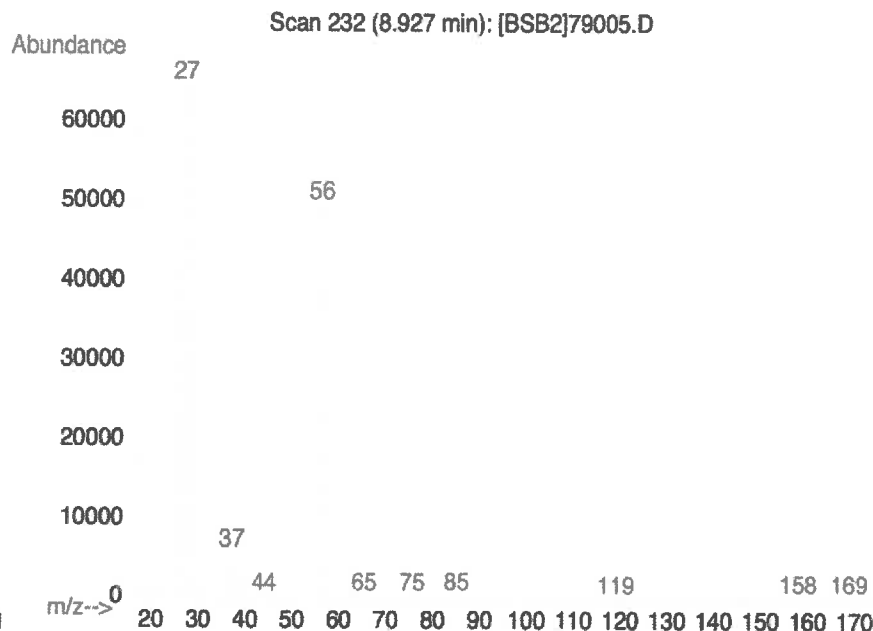
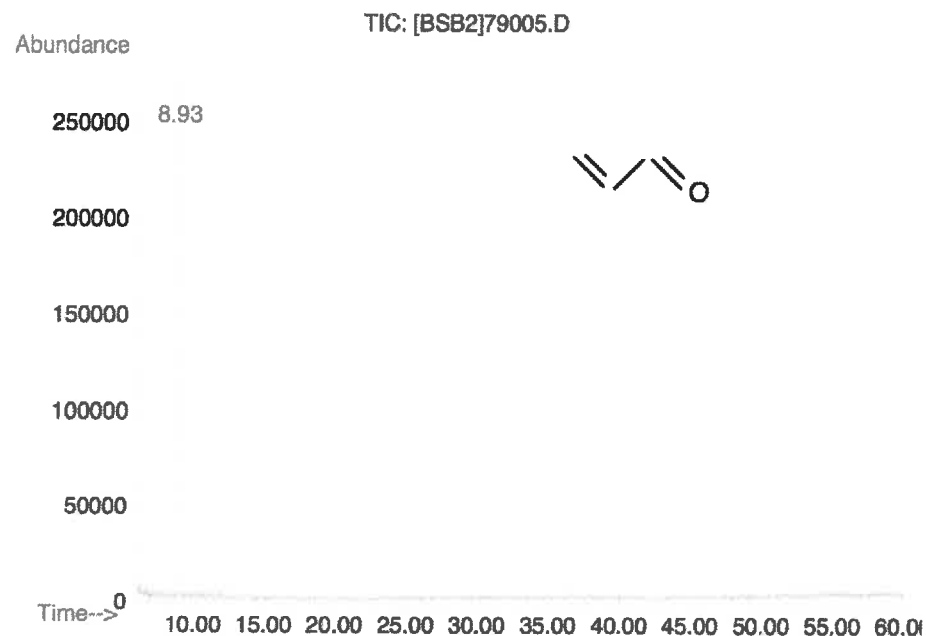
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): **10.0**

<i>Justin Dippold</i>		031525
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		031525
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	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 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).



222 03/18/24



CERTIFIED WEIGHT REPORT

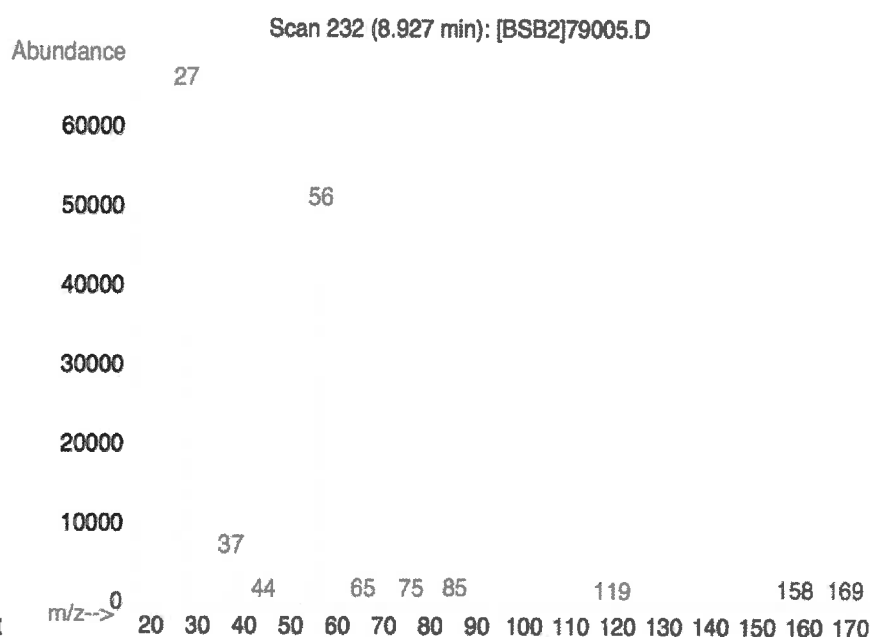
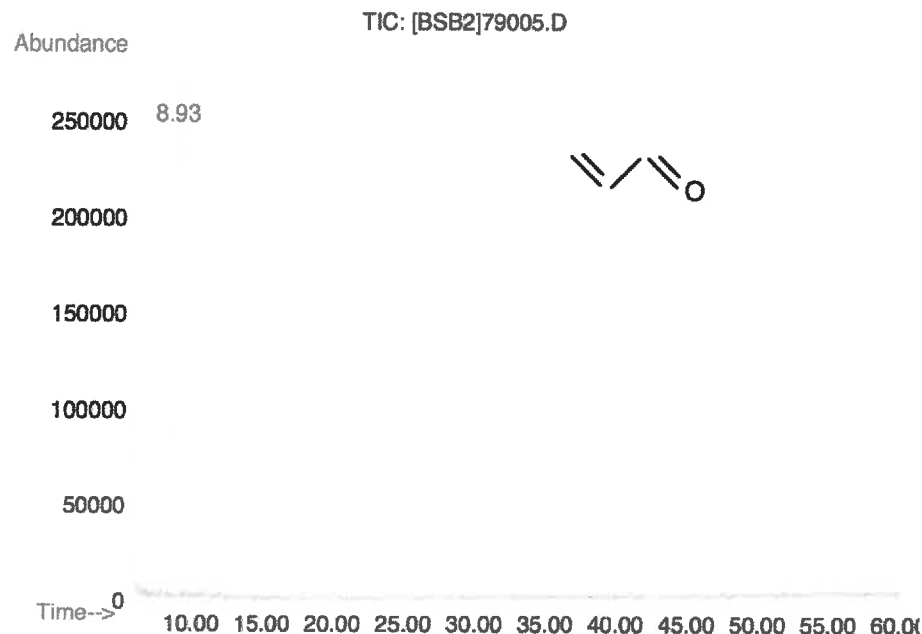
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
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 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		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#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	Eye protection.	

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

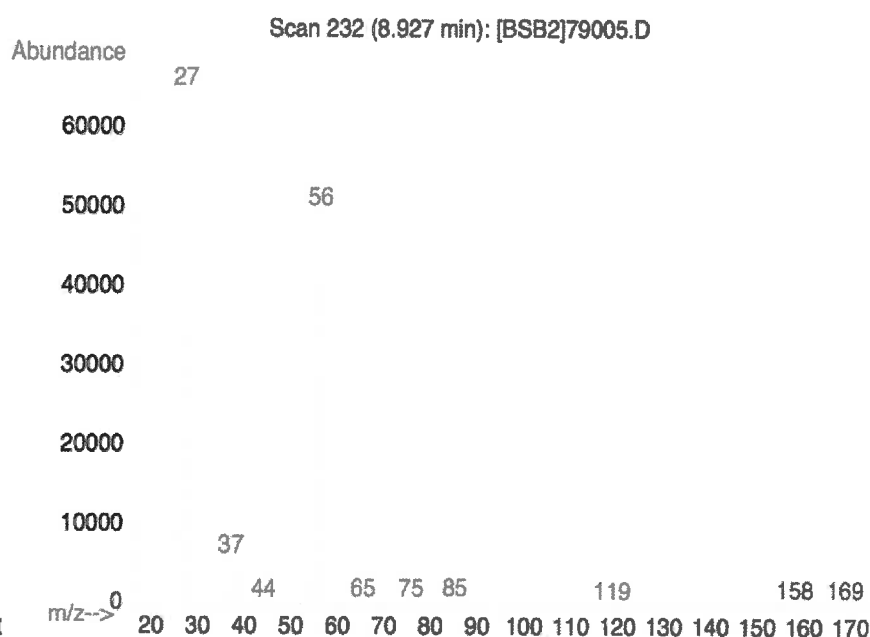
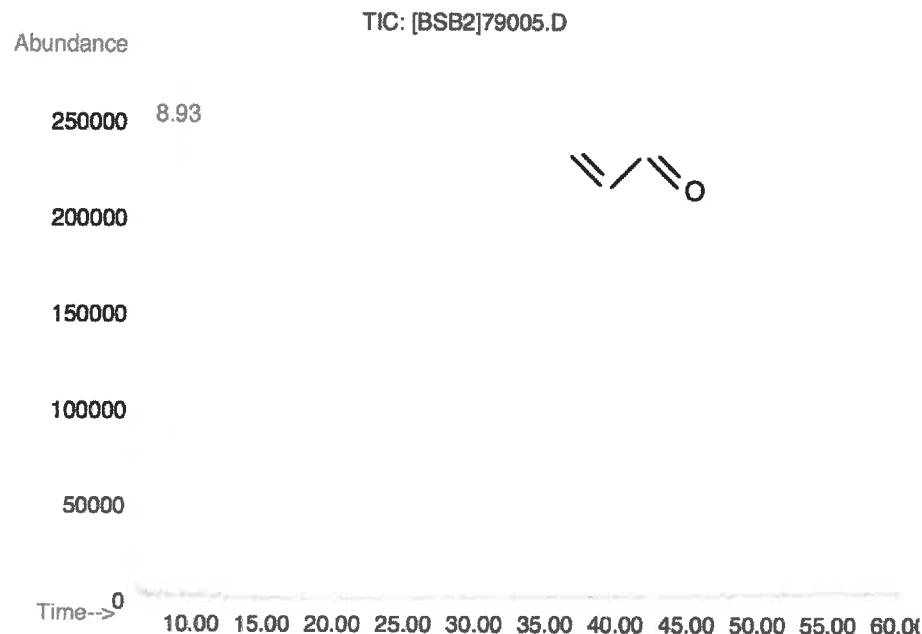
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

<i>Lawrence Barry</i>		031725
Formulated By:	Lawrence Barry	DATE
<i>Pedro L. Rentas</i>		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
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 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		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#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	Eye protection.	

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

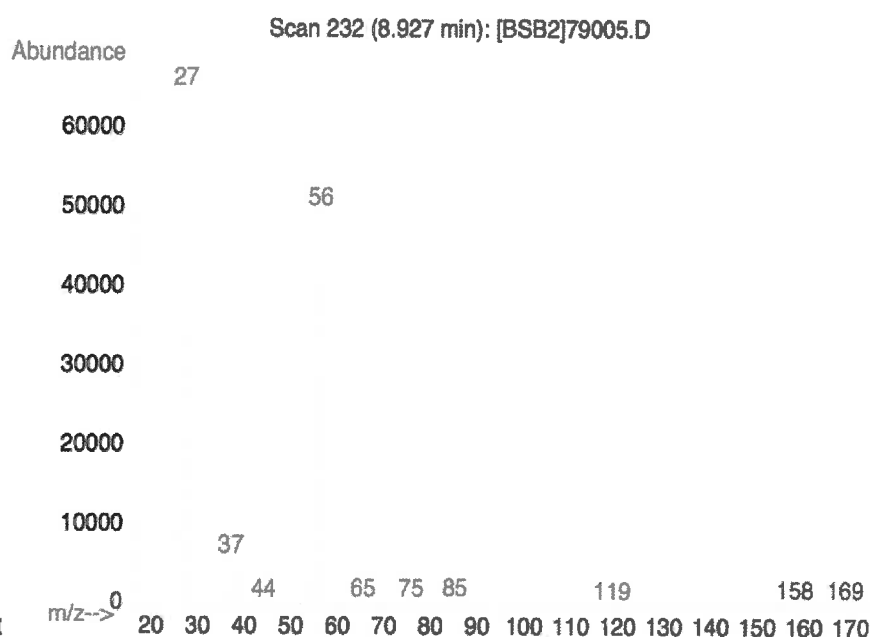
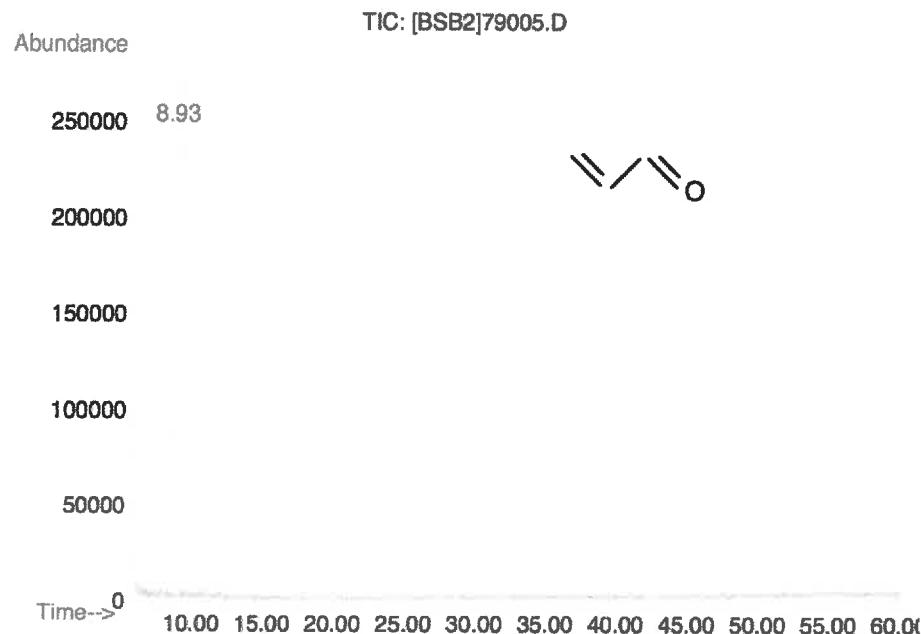
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
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.



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- 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 WATER

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		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#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	Eye protection.	

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		NA		NA
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

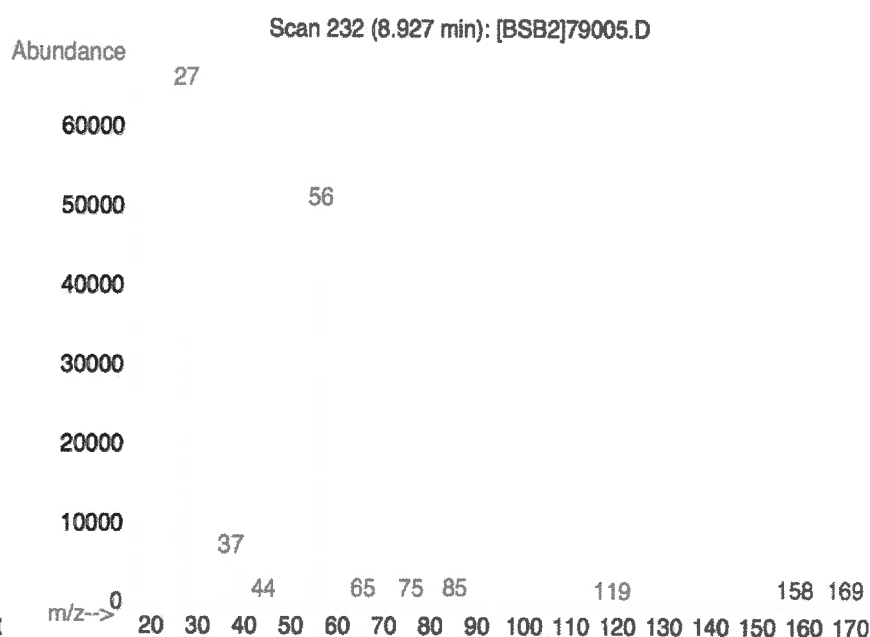
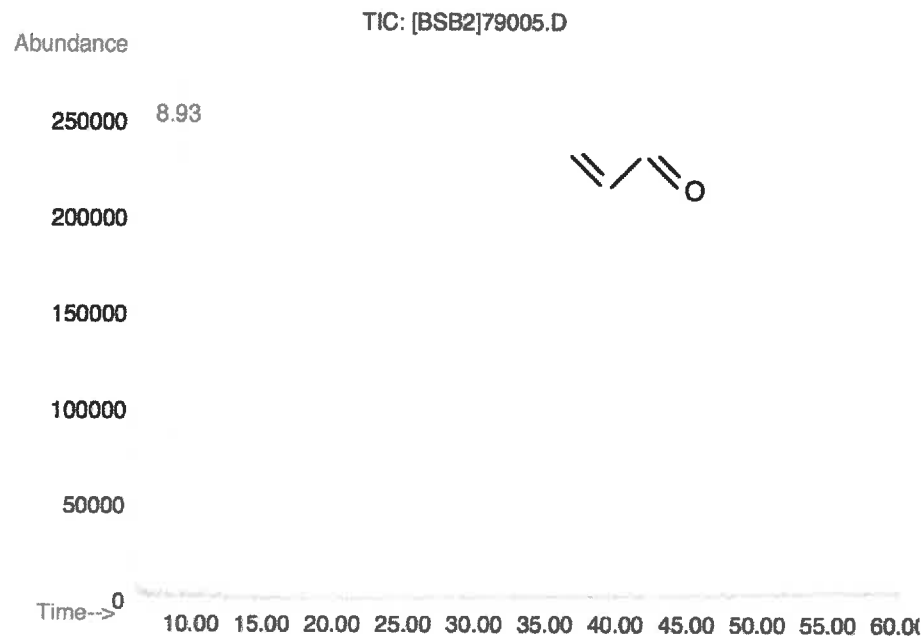
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
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.)
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Safety Data Sheet (SDS) GHS/OSHA Compliant

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Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		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#: 7732-18-5	% (optional)
Water		> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	Eye protection.	

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
		NA		NA
Solubility in Water	Completely miscible			
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.			

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material 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

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324Q

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

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	0.05175	5008.9	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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z--> 0

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

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324Q

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

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	0.05175	5008.9	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.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z--> 0

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 WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

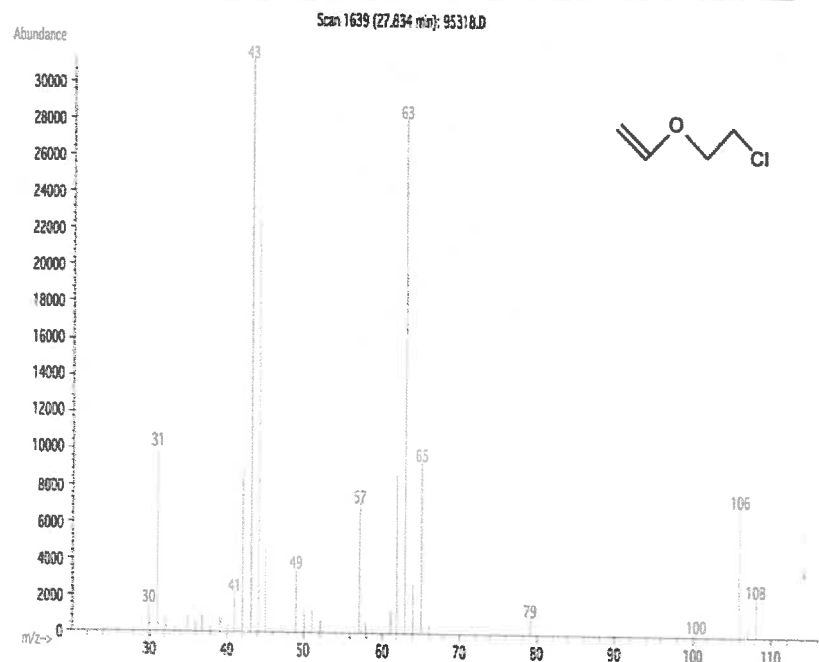
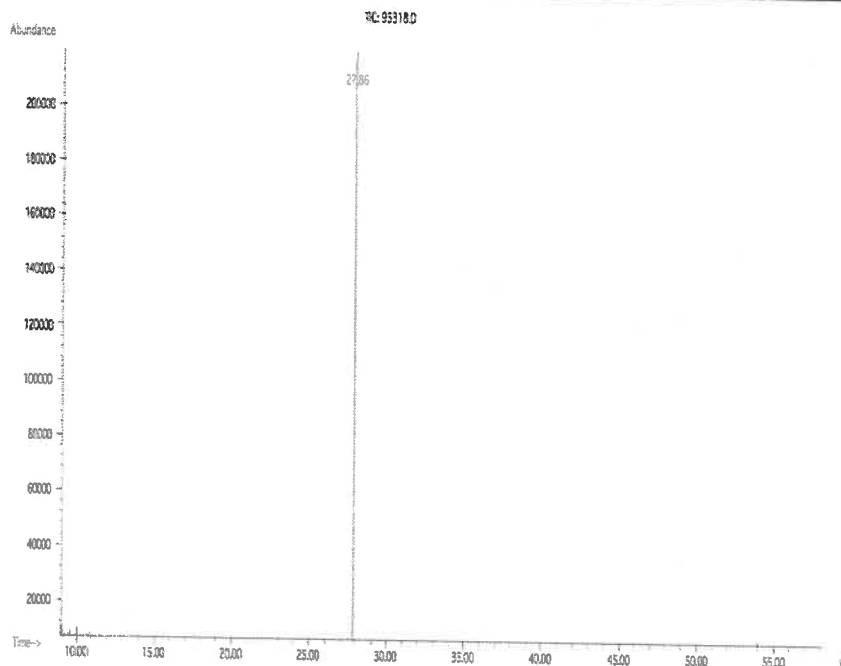
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-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).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

See 1216124
20 vial
✓ 14630 to
✓ 14649

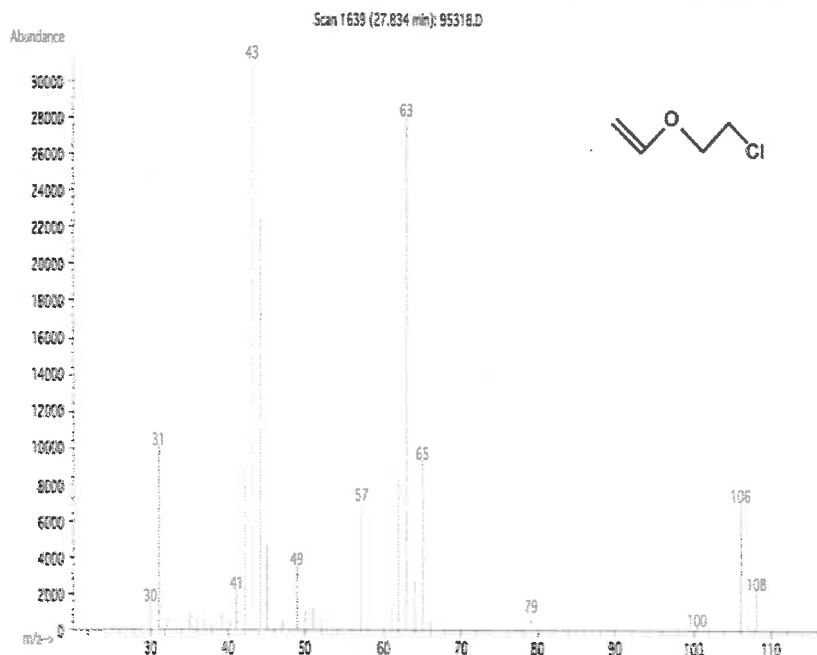
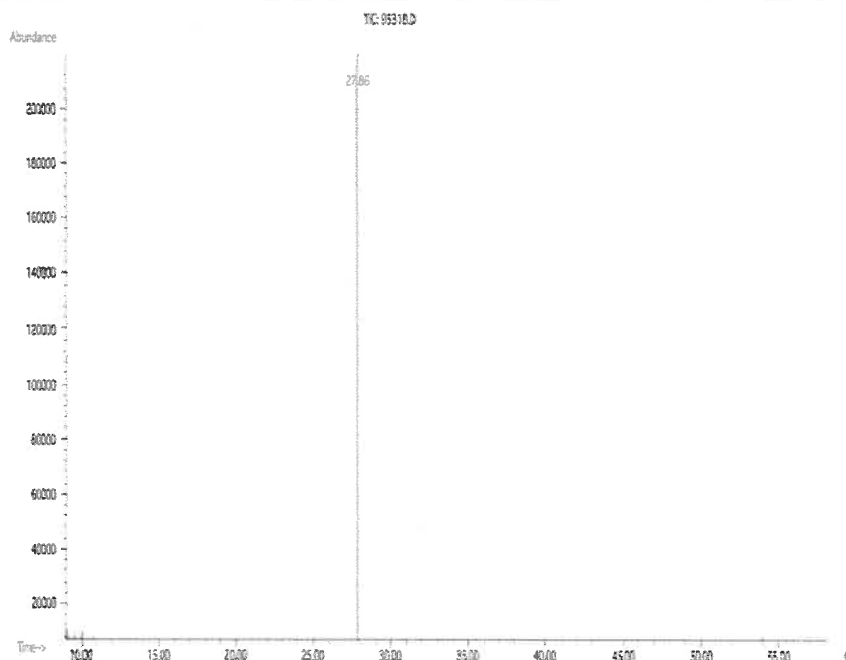
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	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	ori-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.



Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>

CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

See 1216124
20 vial
✓ 14630 to
✓ 14649

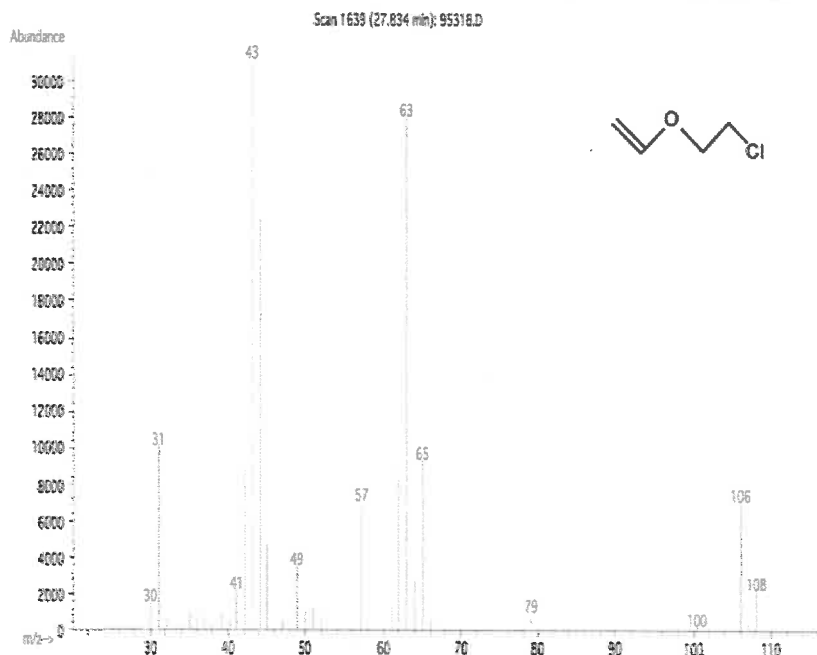
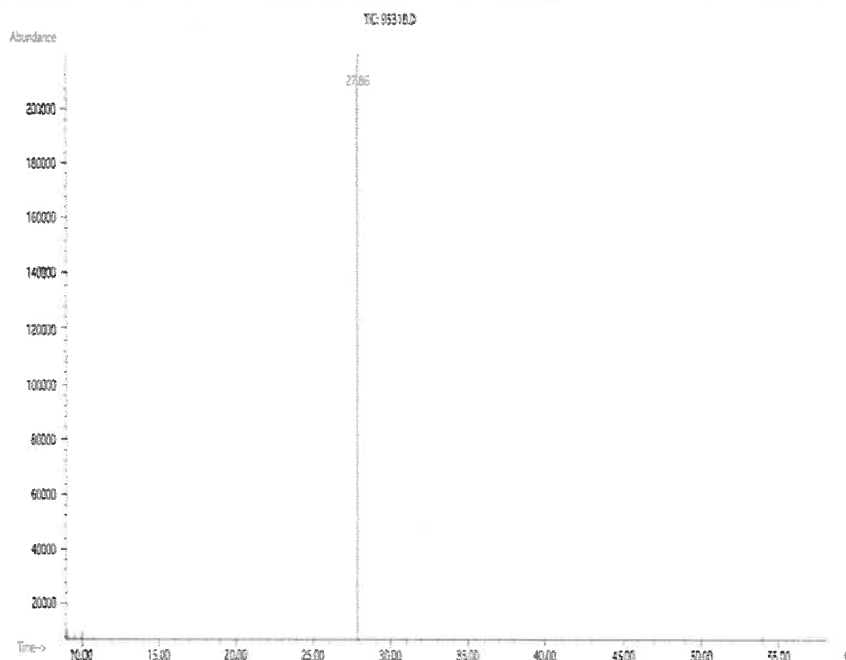
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	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	ori-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).
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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.



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

See 1216124
20 vial
✓ 14630 to
✓ 14649

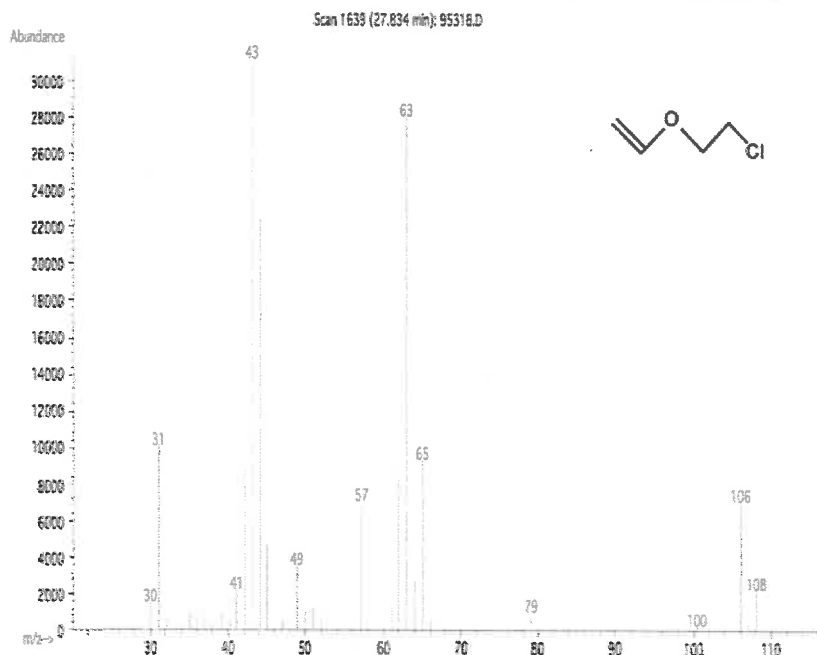
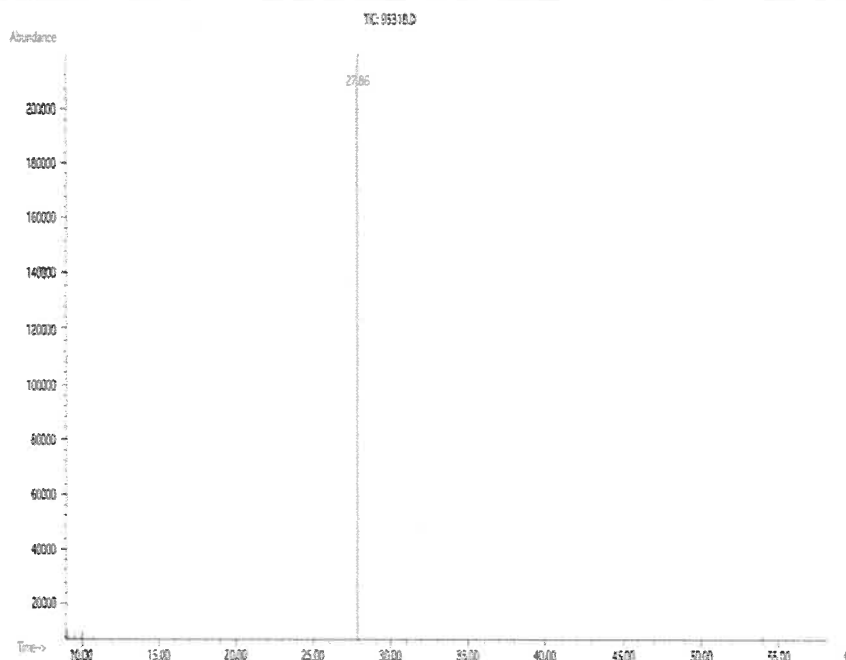
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	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	ori-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.

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Certified Reference Material CRM



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>

CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

See 1216124
20 vial
✓ 14630 to
✓ 14649

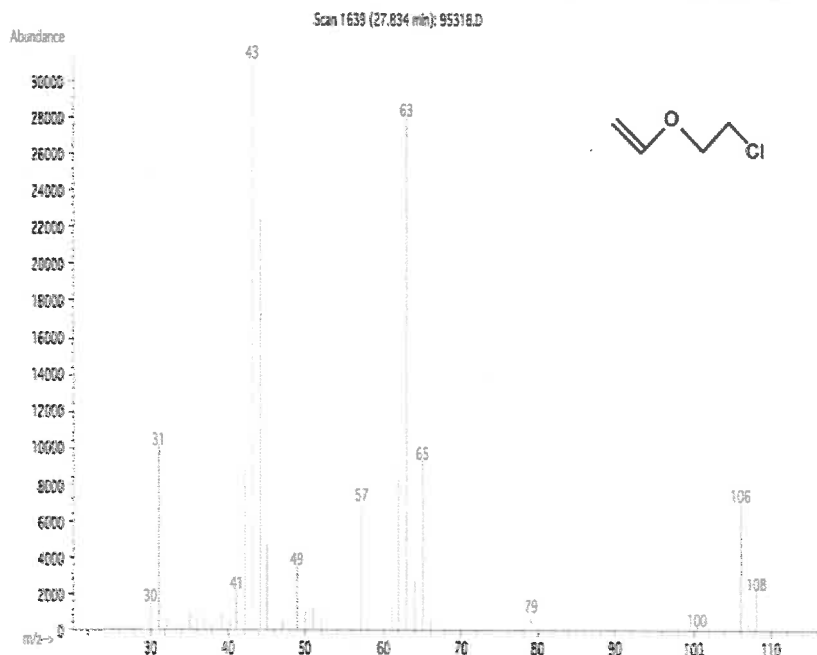
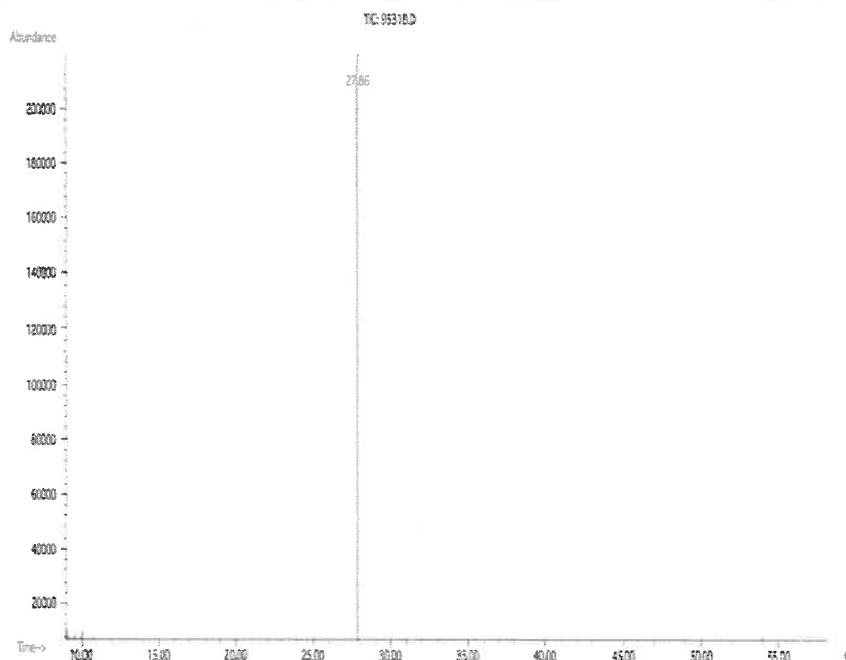
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0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
Reviewed By:	Pedro L. Rentas	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.)		
										CAS#	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	ori-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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GHS/OSHA Compliant

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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.

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Vapor Pressure (mm Hg)	96	Melting Point	-98°C
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DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.:** A0191703
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 : November 30, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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:

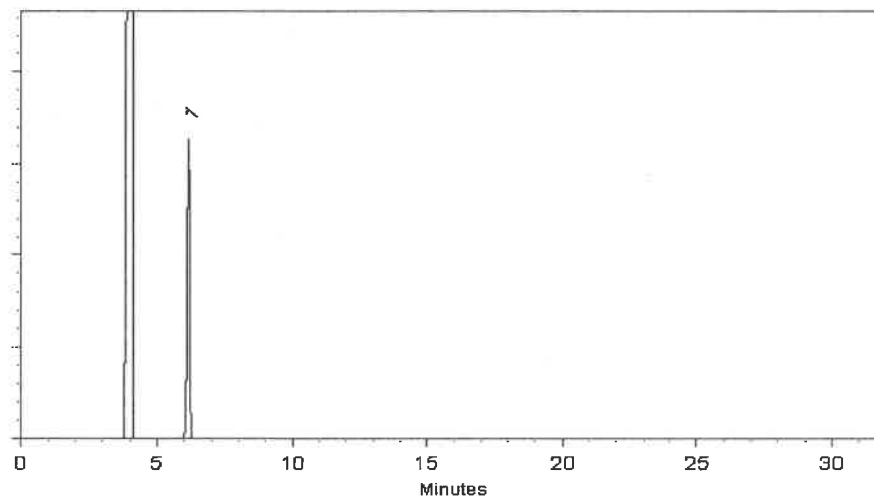
200°C

Det. Temp:

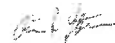
250°C

Det. Type:

FID



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: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-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/ 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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



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:

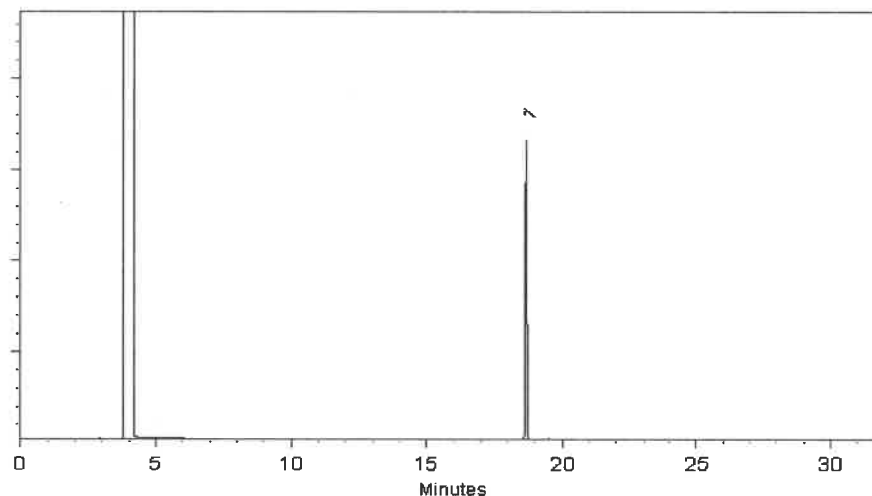
FID

Split Vent:

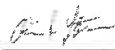
40 ml/min

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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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.:** A0197644

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 : January 31, 2030 **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	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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:

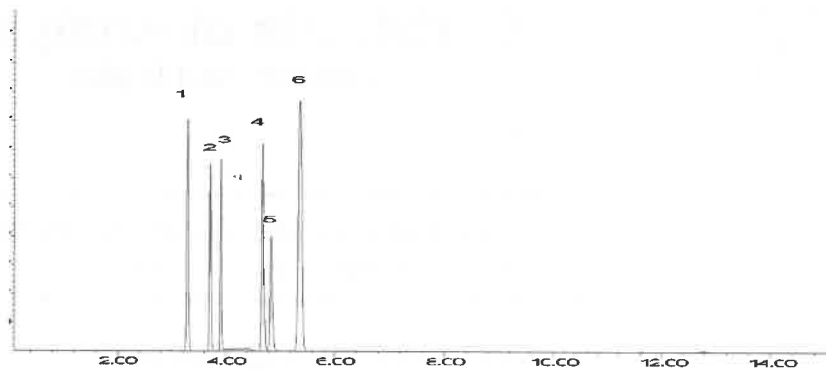
MSD

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.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

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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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.:** A0200785

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 : November 30, 2026 **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	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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:

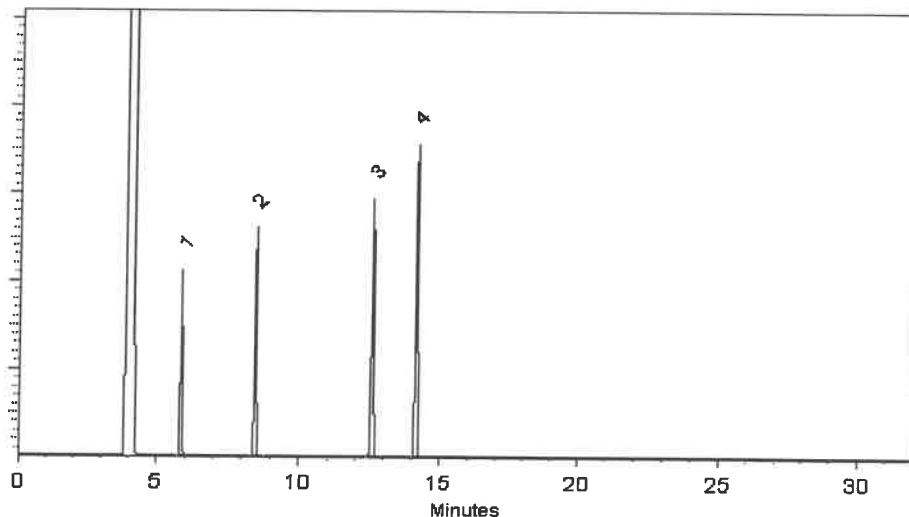
FID

Split Vent:

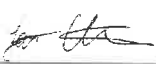
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

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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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.:** A0205013
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 : June 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%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* 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:

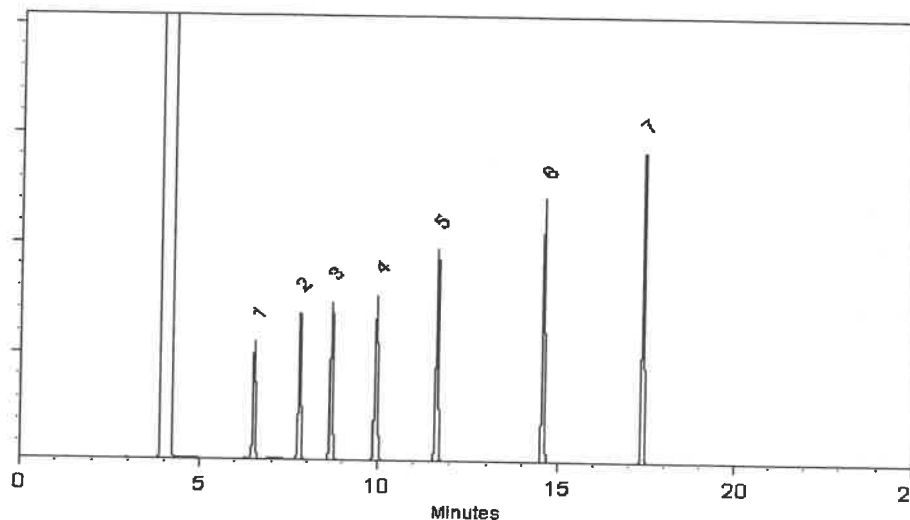
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

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. : 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:

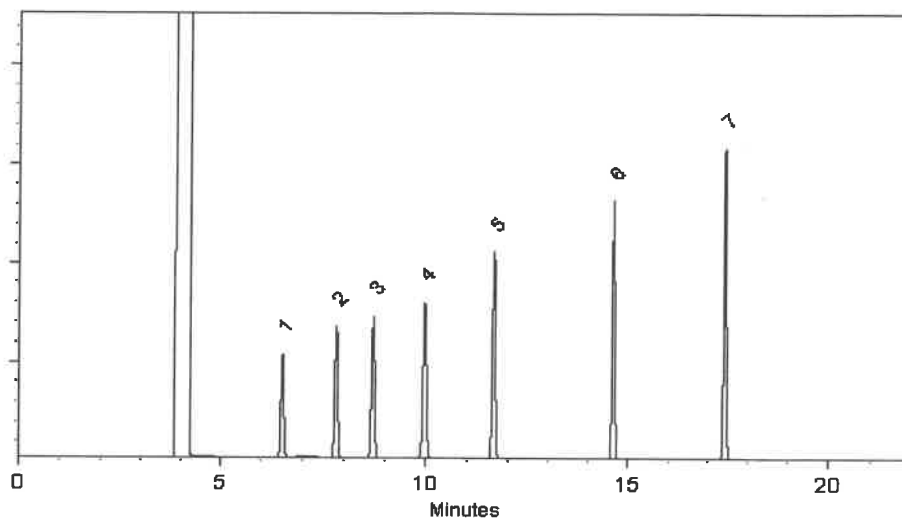
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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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:

- 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. : 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:

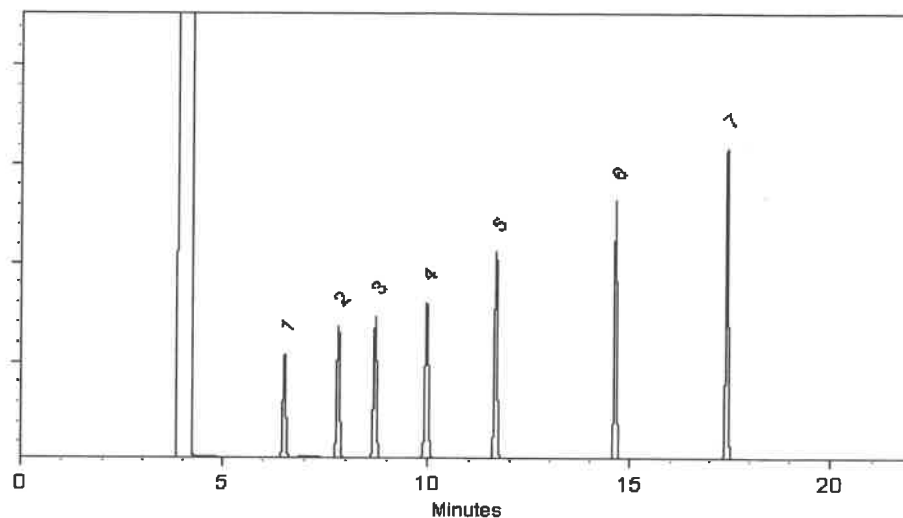
FID

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:

- 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

V14697-to-14726



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:

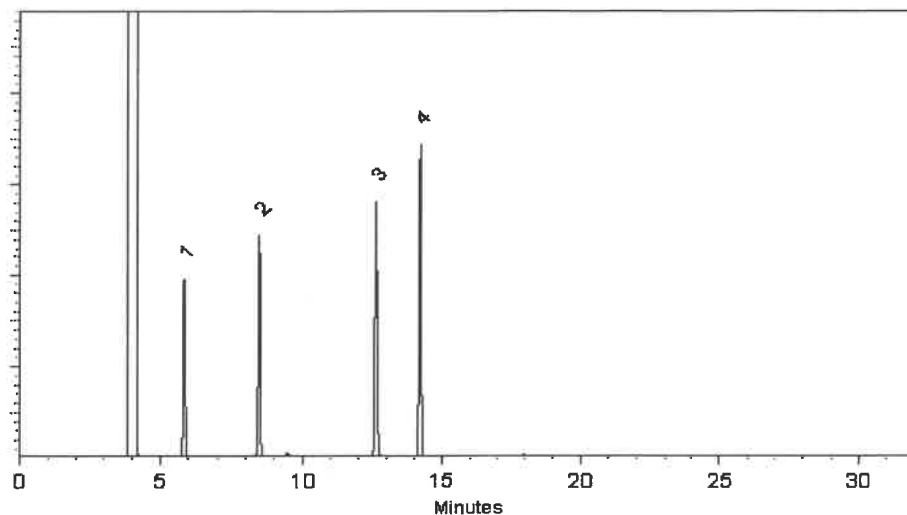
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

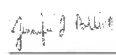


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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:

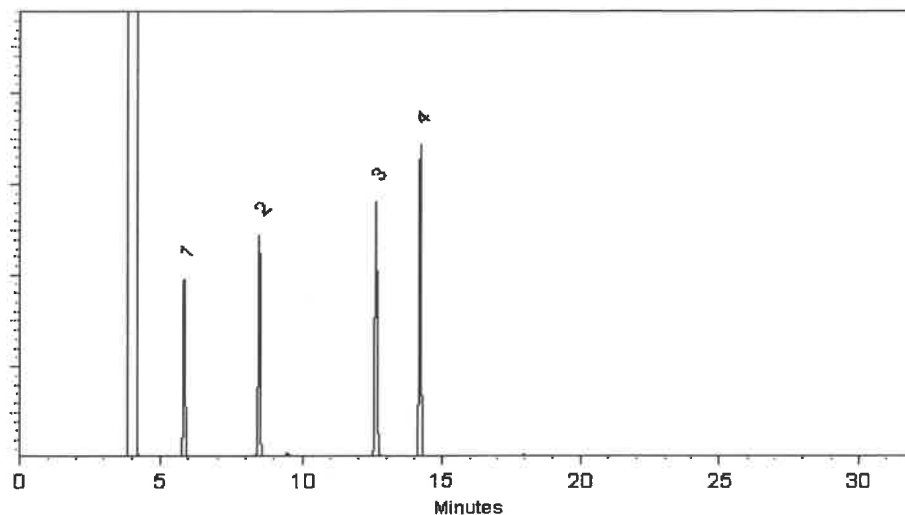
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

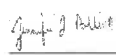


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

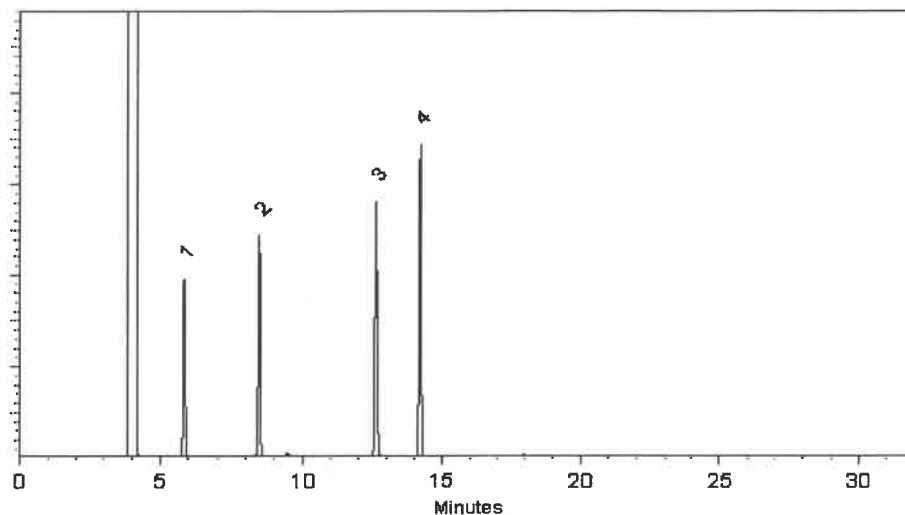
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

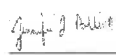


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- 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
CERTIFIED REFERENCE MATERIAL

30 ml
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:

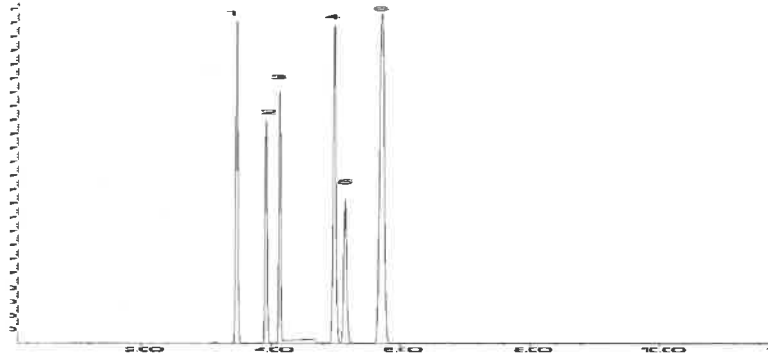
MSD

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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30 ml
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:

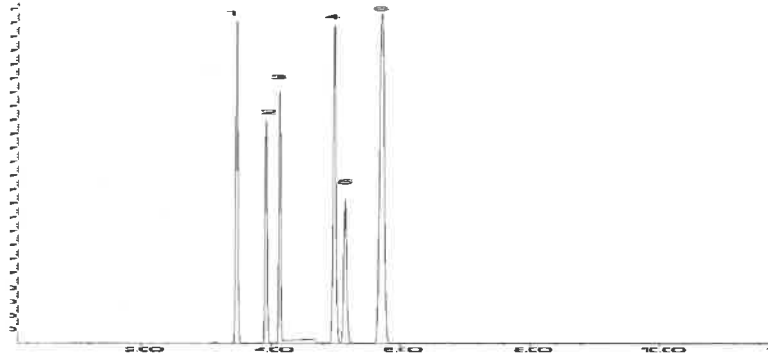
MSD

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.
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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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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:

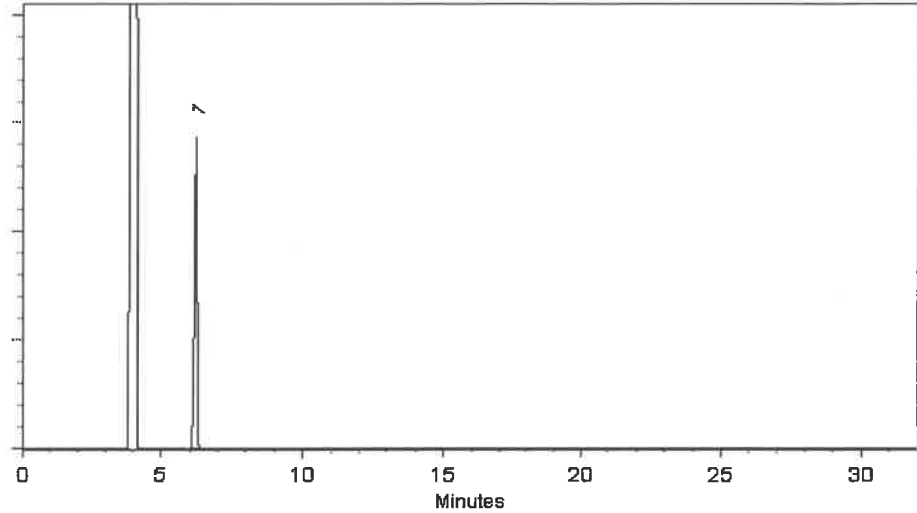
FID

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:

- 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. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

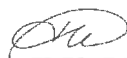
Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

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-33313	99%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024

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:

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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:

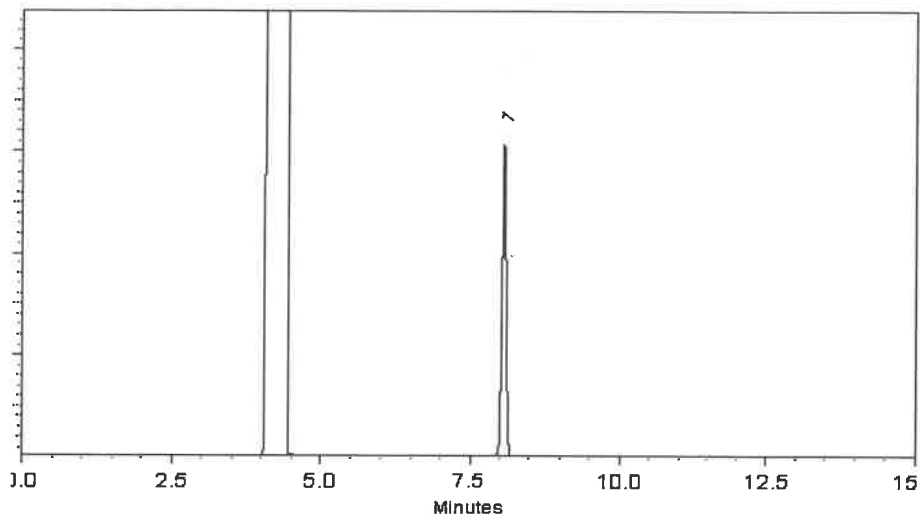
FID

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:

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- 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

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:

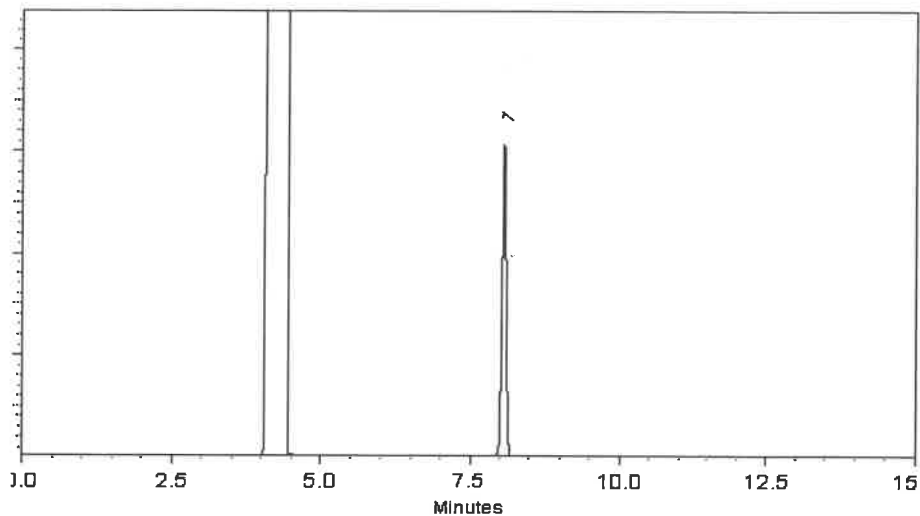
FID

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/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:

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Certificate of Analysis

chromatographic

✓ 14793 to 14802



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-FL **Lot No.:** A0220563
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%	8,060.0 µg/mL	+/- 278.5905

* 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:

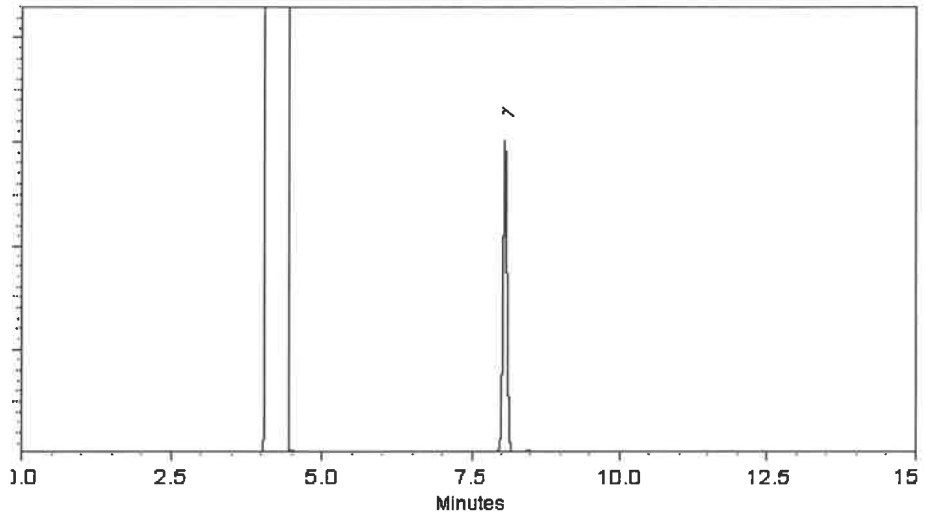
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

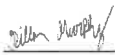


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024

Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Poffus at 7:11 am, Jan 03, 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/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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REC 03/12/25
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Certificate of Analysis

gravimetric

V14885-to-V14894



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. : 555583 **Lot No.:** A0223136

Description : Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°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-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025

Balance: 1128342314

REVIEWED
By: [Signature] Date: 10-Mar-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:

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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.

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



V14883
V14884

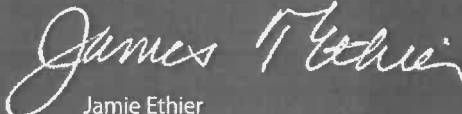
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
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Certificate of Analysis

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For Laboratory, Research, or Manufacturing Use
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500 Series for Drinking Water
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Country of Origin: USA
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Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

Q 1774

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Ln, Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: GW IDW
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetrattech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ 48hr _____ DAYS*
HARD COPY: _____ 48hr _____ DAYS*
EDD _____ 48hr _____ DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

ANALYSIS

VOC's (EPA 624)	pH	Total Metals	PCB's (EPA 8062)						
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		A		B							
1.	BP-TB-20250407	QA		X	4/7/25	9:00	2	2									Trip Blank
2.	TT-073-IDWGW-20250409	AQ		X	4/9/25	11:30	5	2	1	1	1						PH-1.3 LOT # 80A044
3.	TT-074-IDWGW-20250409	AQ		X	4/9/25	11:40	5	2	1	1	1						PH-1.3
4.	TT-075-IDWGW-20250409	AQ		X	4/9/25	11:50	5	2	1	1	1						PH-1.0
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER <i>[Signature]</i>	DATE/TIME 4/9/25 14:00	RECEIVED BY <i>[Signature]</i>	Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.3°C MeOH extraction requires an additional 4oz. Jar for percent solid Comments: 48hr TAT - CTO-WE13 Drilling GW IDW Sampling - Frac Tank #3291 (TT-050)
RELINQUISHED BY 2. FedEx	DATE/TIME 4-10-25 0950	RECEIVED BY <i>[Signature]</i>	q Ice in Cooler?: ☒
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight
			Shipment Complete ☐ YES ☐ NO

Page 1 of 1

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

From: Wu, Ernie <Ernie.Wu@tetrattech.com>
Sent: Thursday, April 10, 2025 2:48 PM
Subject: RE: Q1774
Attachments: SKM_C55825041011470.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Kiran,

Thanks for letting me know. Please proceed with the analysis without the trip blank.

Ernie

Ernie Wu | Project Manager | Environmental Scientist
Direct +1 (757) 466-4148 | Business +1 (757) 461-3768 | ernie.wu@tetrattech.com
Time Zone: Eastern Time

Tetra Tech | *Leading with Science®*
4433 Corporation Lane, Ste 300 | Virginia Beach, VA 23462 | tetrattech.com
EGS



This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Thursday, April 10, 2025 12:45 PM
To: Wu, Ernie <Ernie.Wu@tetrattech.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: Q1774

☐ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ☐

Good Afternoon Ernie,

I am reaching out to inform you that we did not receive the sample 1 which is BP-TB-20250407 for attached COC.

Thanks.

NOTE: Chemtech is now an Alliance Technical Group company. Please add AllianceTG.com to your safe senders list to ensure receipt of important emails.

Regards,



Kiran Saleem
Project Manager
Alliance Technical Group

Main: 908-789-8900

Direct: 908-728-3148

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com

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 : Q1774 TETR06

Order Date : 4/10/2025 10:43:00 AM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 4/10/2025 9:50:00 AM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

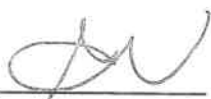
Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
~~Q1774-01~~	~~BP-TB-20250407~~	~~Water~~	~~04/09/2025~~	~~09:00~~					
					VOCMS Group4		624.1		2 Bus. Days
Q1774-02	TT-073-IDWGW-20250409	Water	04/09/2025	11:30		VOCMS Group4	624.1		2 Bus. Days
Q1774-03	TT-074-IDWGW-20250409	Water	04/09/2025	11:40		VOCMS Group4	624.1		2 Bus. Days
Q1774-04	TT-075-IDWGW-20250409	Water	04/09/2025	11:50		VOCMS Group4	624.1		2 Bus. Days

Relinquished By :

Date / Time :


4/10/25 11:20

Received By :

Date / Time :


4/10/25 11:20

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	20477	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	121329	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	110874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	59014	29.547	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.500%		
60) 4-Bromofluorobenzene	12.847	95	66521	30.135	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.433%		
63) Toluene-d8	10.565	98	185448	29.627	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	167899	102.336	ug/l	97
3) Chloromethane	2.359	50	220891	97.412	ug/l	99
4) Vinyl Chloride	2.518	62	212658	98.457	ug/l	97
5) Bromomethane	2.959	94	94323	87.548	ug/l	99
6) Chloroethane	3.118	64	128777	94.415	ug/l	98
7) Trichlorofluoromethane	3.500	101	227259	96.994	ug/l	100
8) Diethyl Ether	3.959	74	101866	94.275	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	139276	96.398	ug/l	99
10) 1,1-Dichloroethene	4.341	96	144087	92.407	ug/l	98
11) Methyl Iodide	4.589	142	168878	94.232	ug/l	98
12) Methyl Acetate	5.018	43	200798	91.194	ug/l	99
13) Acrolein	4.177	56	131999	527.390	ug/l	100
14) Acrylonitrile	5.712	53	430948	463.608	ug/l	99
15) Acetone	4.424	58	102413	434.159	ug/l	86
16) Carbon Disulfide	4.712	76	413127	92.399	ug/l	99
17) Allyl chloride	5.018	41	254150	93.519	ug/l	98
18) Methylene Chloride	5.277	84	164274	92.405	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	152296	108.281	ug/l	99
20) Diisopropyl ether	6.665	45	555310	95.034	ug/l	96
21) 1,1-Dichloroethane	6.565	63	298980	95.915	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	182539	93.299	ug/l	97
23) tert-Butyl Alcohol	5.512	59	171504	445.280	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	526162	93.663	ug/l	98
25) Chloroform	7.965	83	281205	94.604	ug/l	96
26) Cyclohexane	8.253	56	277499	95.155	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	213302	98.138	ug/l	99
30) 2-Butanone	7.477	43	562722	467.239	ug/l	100
31) 2,2-Dichloropropane	7.488	77	263451	98.472	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	237411	94.957	ug/l	100
33) Carbon Tetrachloride	8.359	117	195904	98.048	ug/l	99
34) Benzene	8.600	78	675144	97.638	ug/l	97
35) Methacrylonitrile	7.777	41	129803	95.604	ug/l	99
36) 1,2-Dichloroethane	8.665	62	210783	97.412	ug/l	99
37) Trichloroethene	9.347	130	163126	97.775	ug/l	91
38) Methylcyclohexane	9.594	83	265418	99.571	ug/l	100
39) 1,2-Dichloropropane	9.618	63	169660	98.606	ug/l	98
40) Dibromomethane	9.706	93	105464	94.904	ug/l	99
41) Bromodichloromethane	9.882	83	225206	94.332	ug/l	99
42) Vinyl Acetate	6.600	43	1951001	475.901	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

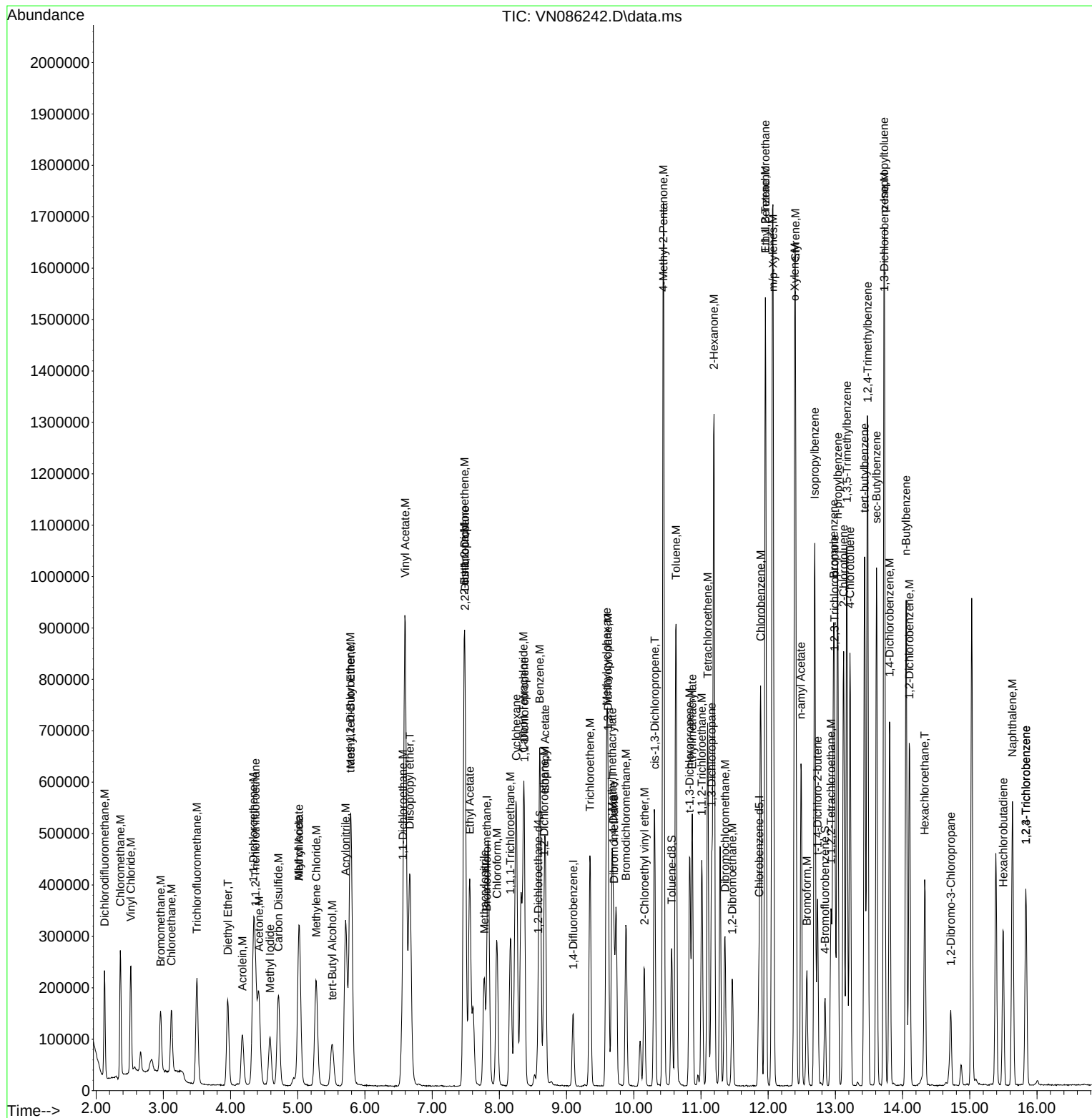
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	222324	91.520	ug/l	99
44) Isopropyl Acetate	8.682	43	407532	90.431	ug/l	98
45) 1,4-Dioxane	9.694	88	65820	1836.730	ug/l #	92
46) Methyl methacrylate	9.676	41	189237	95.302	ug/l	99
47) n-amyl Acetate	12.488	43	338467	92.953	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	263069	97.471	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	281650	98.600	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	147343	94.534	ug/l	98
51) Ethyl methacrylate	10.870	69	276983	95.629	ug/l	97
52) 1,3-Dichloropropane	11.159	76	268559	96.673	ug/l	99
53) Dibromochloromethane	11.359	129	164626	96.562	ug/l	100
54) 1,2-Dibromoethane	11.465	107	149844	95.239	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	109257	99.826	ug/l	99
56) Bromoform	12.576	173	105955	94.994	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1157830	460.173	ug/l	99
59) 2-Hexanone	11.194	43	858112	458.017	ug/l	100
61) Tetrachloroethene	11.100	164	159732	97.556	ug/l	96
62) Toluene	10.629	91	705070	94.810	ug/l	99
64) Chlorobenzene	11.888	112	427265	94.040	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	142064	94.745	ug/l	99
66) Ethyl Benzene	11.959	91	775657	94.050	ug/l	98
67) m/p-Xylenes	12.070	106	587623	191.616	ug/l	99
68) o-Xylene	12.394	106	287174	95.205	ug/l	98
69) Styrene	12.406	104	486004	95.537	ug/l	99
70) Isopropylbenzene	12.694	105	705950	94.920	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	184643	87.222	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	301047	100.449	ug/l	60
73) Bromobenzene	12.976	156	155884	94.613	ug/l	99
74) n-propylbenzene	13.035	91	854262	96.989	ug/l	100
75) 2-Chlorotoluene	13.123	91	518416	93.916	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	586325	95.970	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	95696	94.184	ug/l	92
78) 4-Chlorotoluene	13.217	91	524792	95.194	ug/l	99
79) tert-butylbenzene	13.435	119	492114	93.090	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	593988	95.880	ug/l	99
81) sec-Butylbenzene	13.611	105	711037	96.423	ug/l	99
82) p-Isopropyltoluene	13.723	119	599176	97.402	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	290118	94.739	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	290254	94.482	ug/l	100
85) n-Butylbenzene	14.053	91	550772	99.247	ug/l	100
86) Hexachloroethane	14.329	117	101143	97.469	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	281264	93.023	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	42853	88.876	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100
90) Hexachlorobutadiene	15.500	225	55837	87.904	ug/l	99
91) Naphthalene	15.635	128	516032	88.964	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100

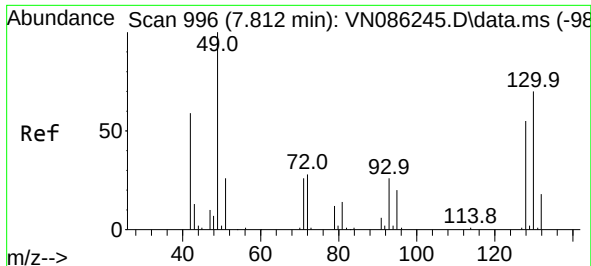
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

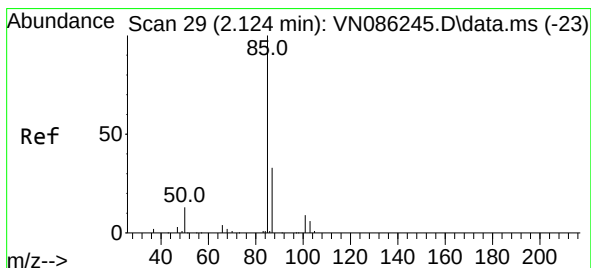
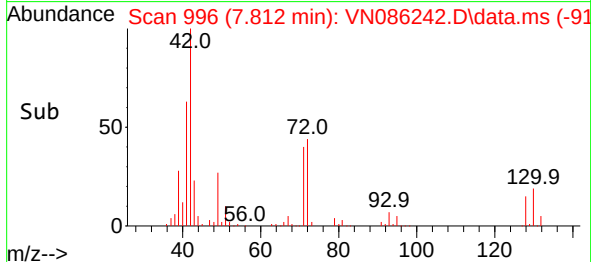
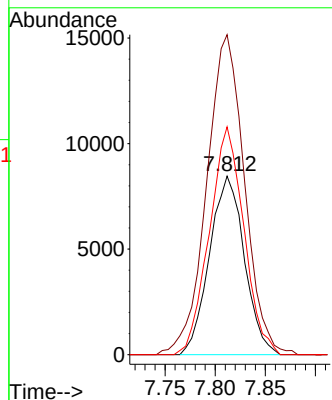
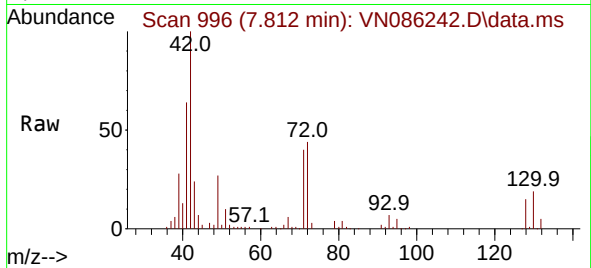




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

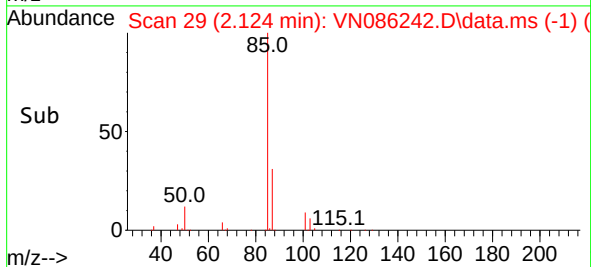
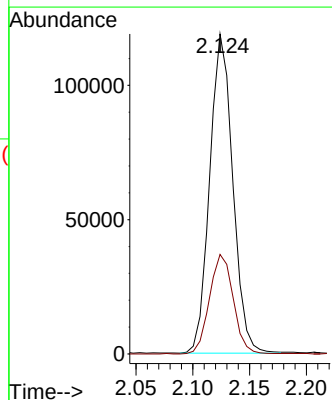
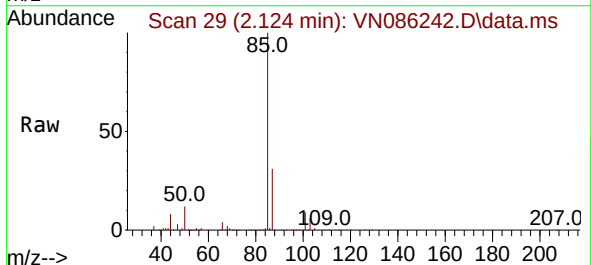
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

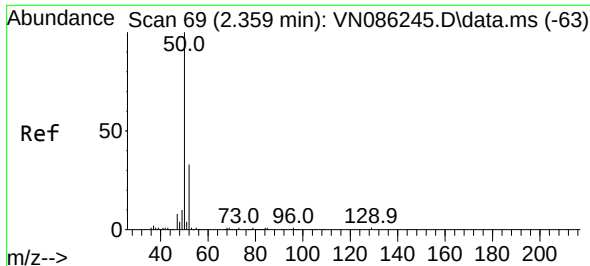
Tgt Ion:128 Resp: 20477
Ion Ratio Lower Upper
128 100
49 194.2 0.0 452.5
130 126.4 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 102.336 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 85 Resp: 167899
Ion Ratio Lower Upper
85 100
87 31.2 16.3 48.9

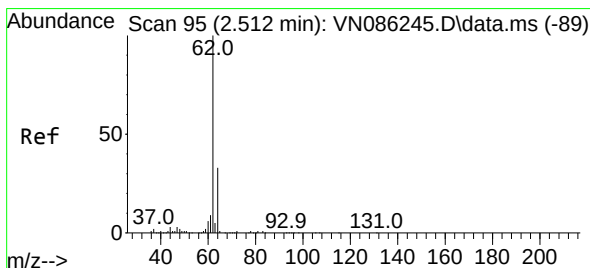
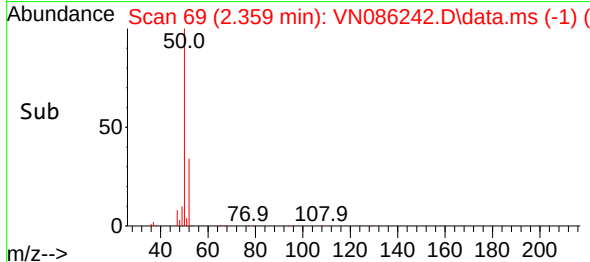
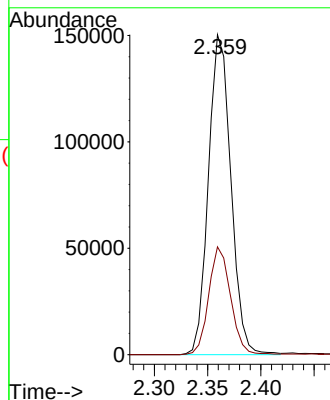
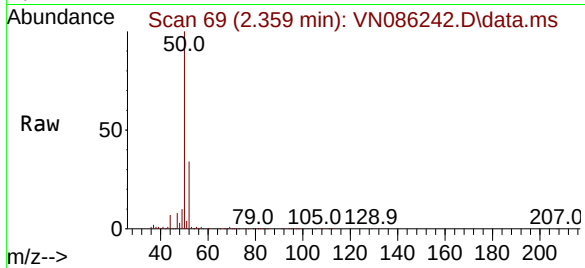




#3
Chloromethane
Concen: 97.412 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

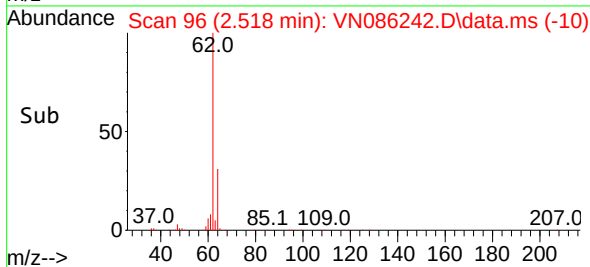
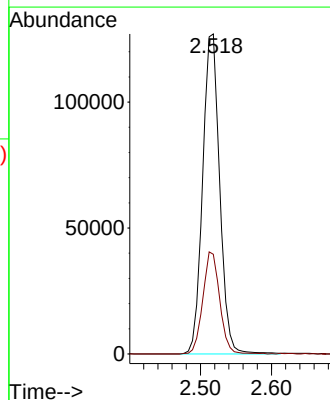
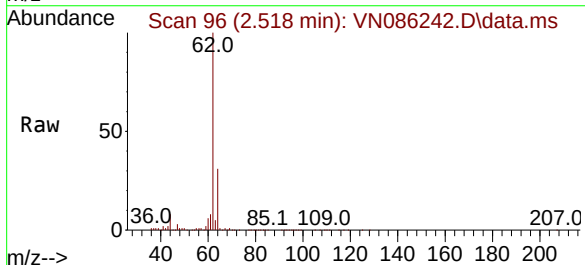
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

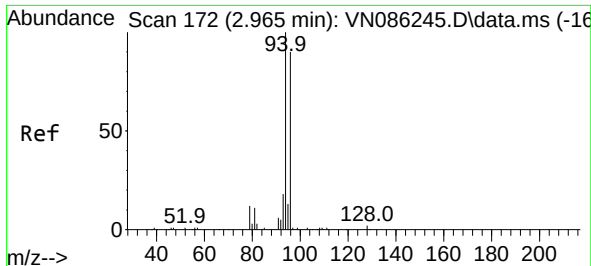
Tgt Ion: 50 Resp: 220891
Ion Ratio Lower Upper
50 100
52 33.7 26.4 39.6



#4
Vinyl Chloride
Concen: 98.457 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 62 Resp: 212658
Ion Ratio Lower Upper
62 100
64 31.1 26.3 39.5

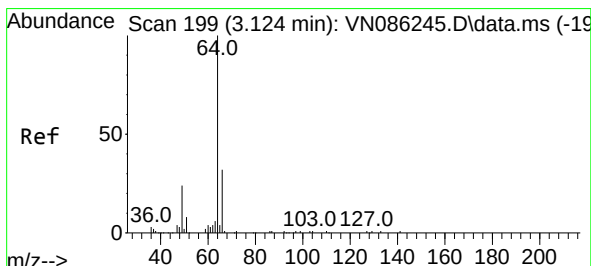
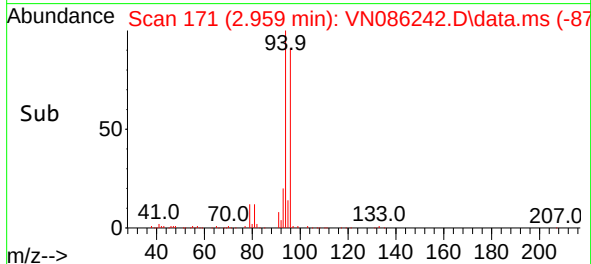
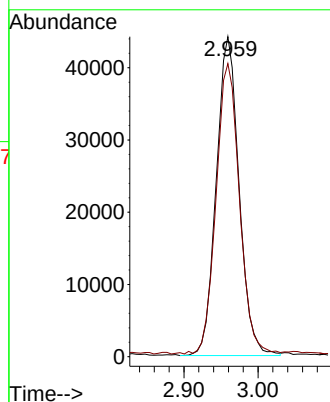
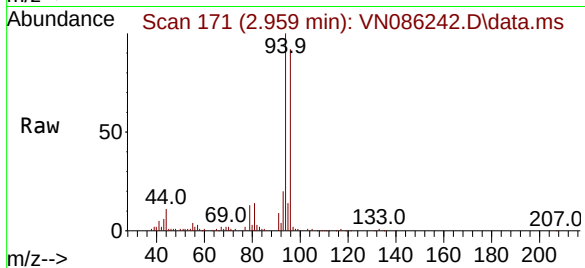




#5
Bromomethane
Concen: 87.548 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

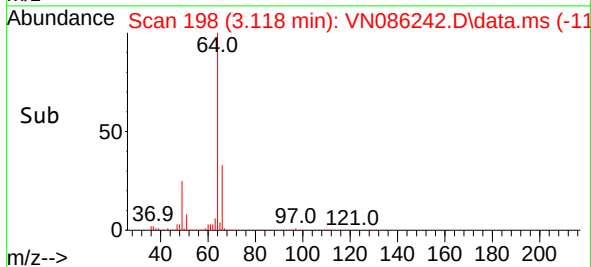
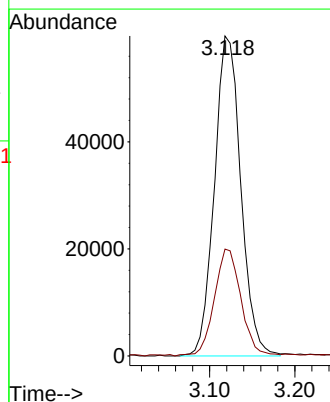
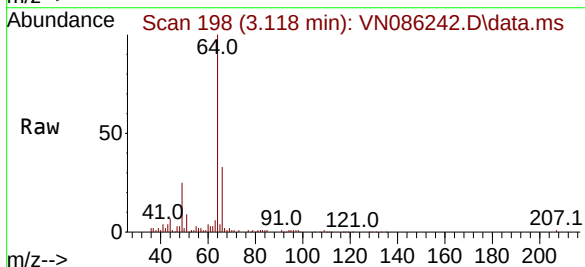
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

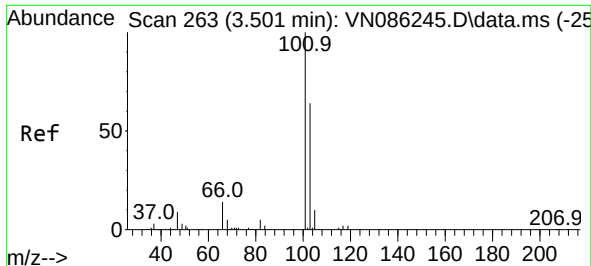
Tgt Ion: 94 Resp: 94323
Ion Ratio Lower Upper
94 100
96 90.7 72.2 108.2



#6
Chloroethane
Concen: 94.415 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 64 Resp: 128777
Ion Ratio Lower Upper
64 100
66 33.0 25.7 38.5

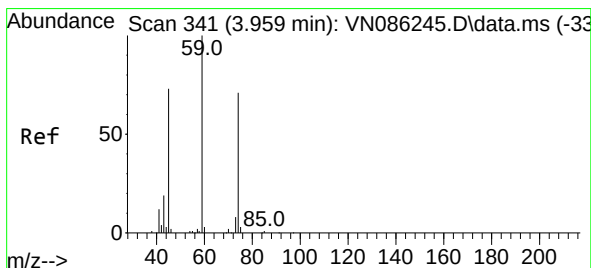
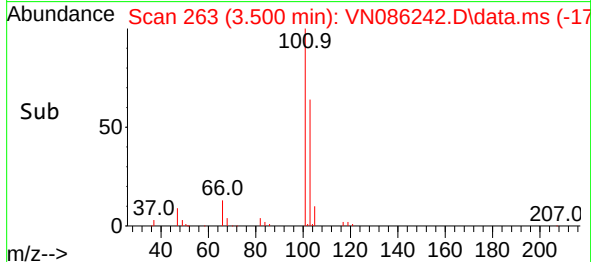
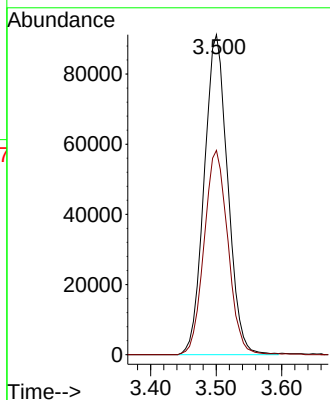
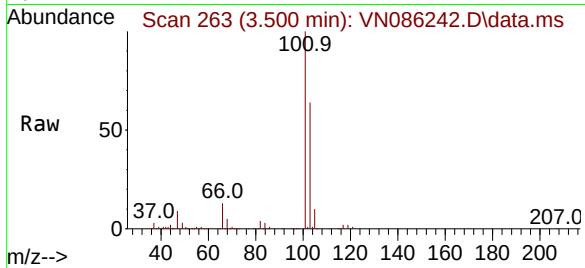




#7
 Trichlorofluoromethane
 Concen: 96.994 ug/l
 RT: 3.500 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

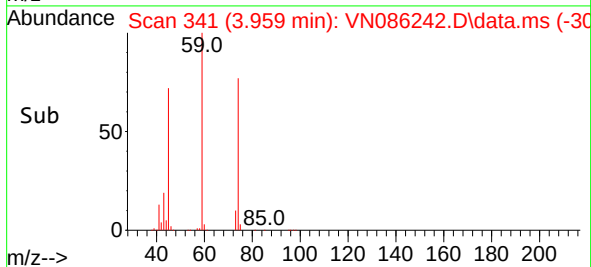
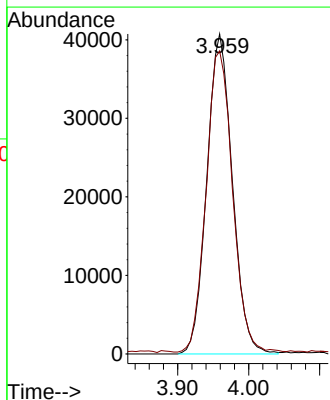
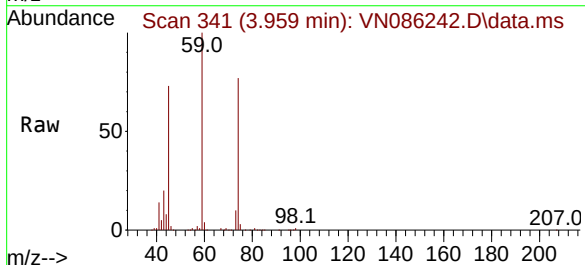
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

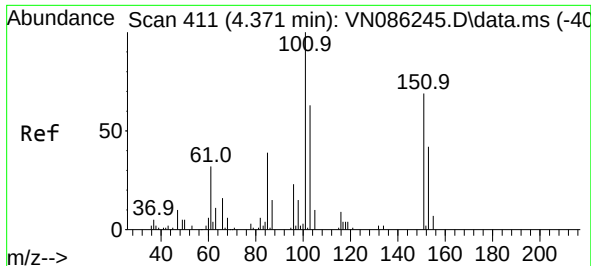
Tgt Ion:101 Resp: 227259
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.2 76.8



#8
 Diethyl Ether
 Concen: 94.275 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Tgt Ion: 74 Resp: 101866
 Ion Ratio Lower Upper
 74 100
 45 96.7 19.2 173.2

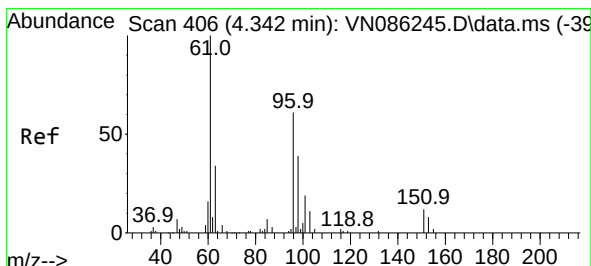
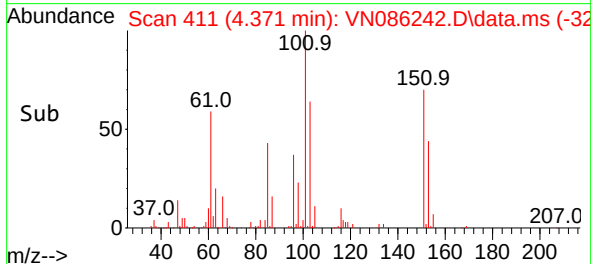
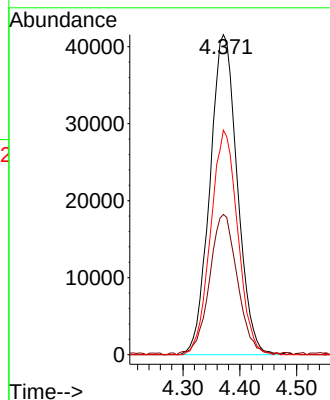
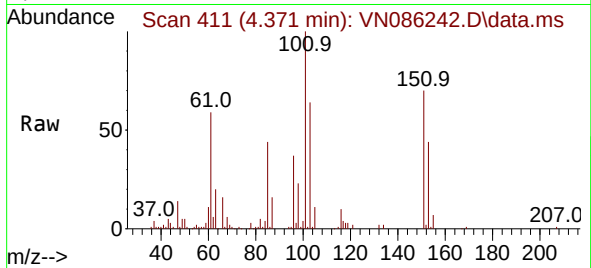




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 96.398 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

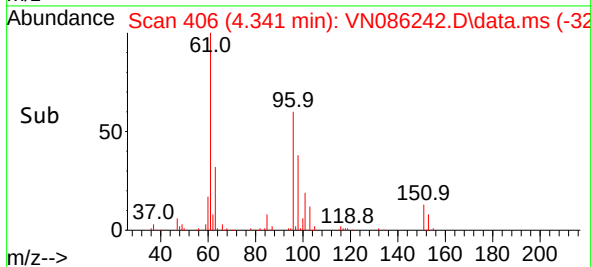
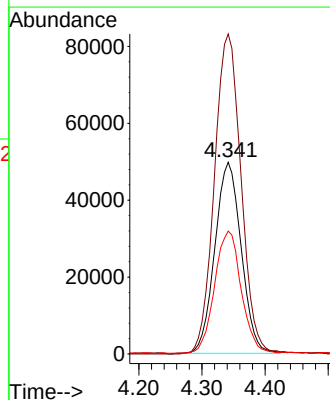
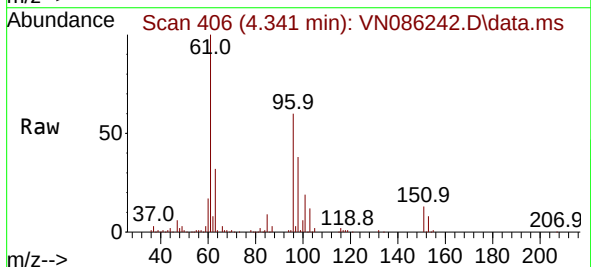
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

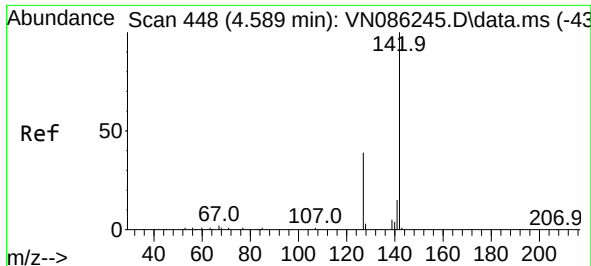
Tgt Ion:101 Resp: 139276
 Ion Ratio Lower Upper
 101 100
 85 44.7 0.0 93.0
 151 69.2 0.0 138.6



#10
 1,1-Dichloroethene
 Concen: 92.407 ug/l
 RT: 4.341 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Tgt Ion: 96 Resp: 144087
 Ion Ratio Lower Upper
 96 100
 61 167.5 131.1 196.7
 98 63.7 51.6 77.4

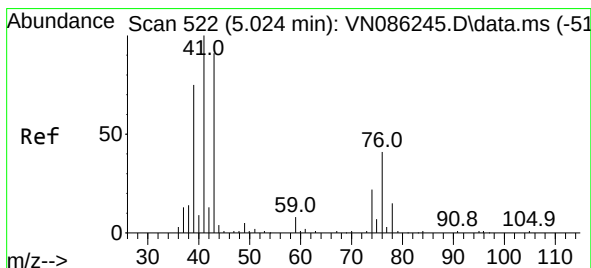
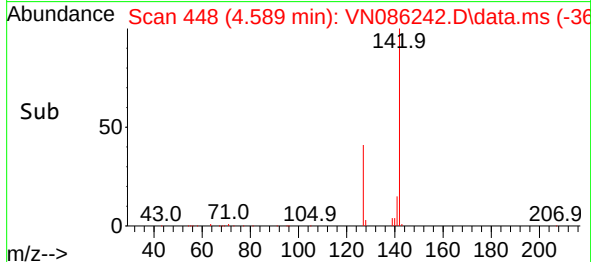
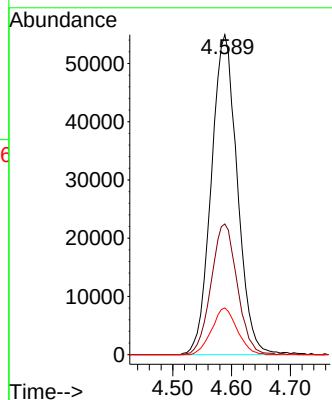
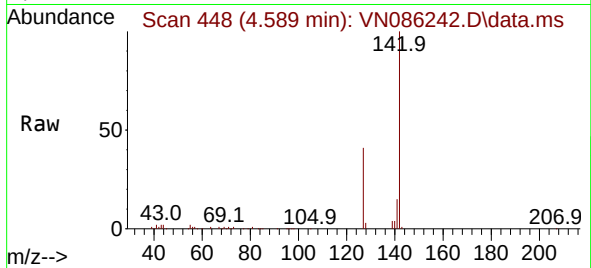




#11
Methyl Iodide
Concen: 94.232 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

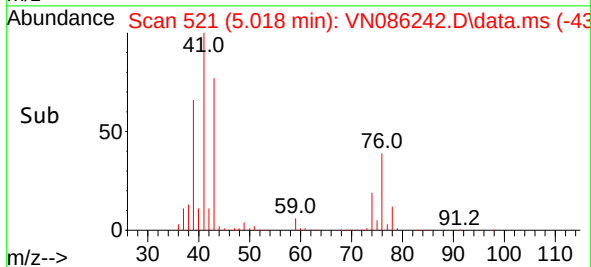
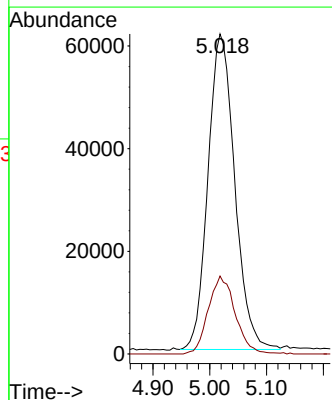
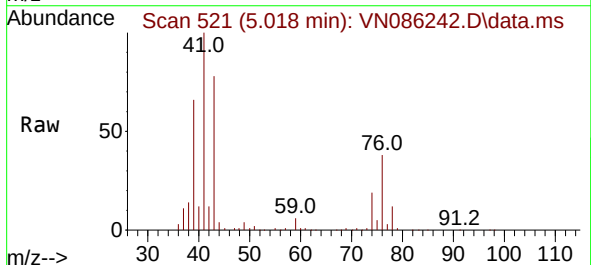
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

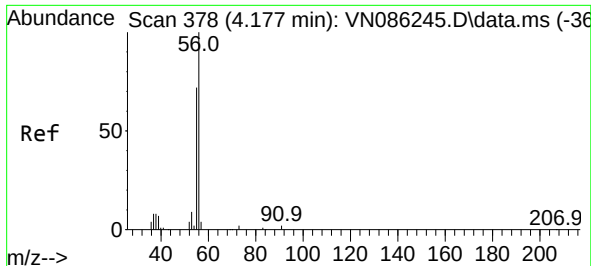
Tgt Ion:142 Resp: 168878
Ion Ratio Lower Upper
142 100
127 40.8 19.6 58.8
141 14.6 7.3 21.9



#12
Methyl Acetate
Concen: 91.194 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 200798
Ion Ratio Lower Upper
43 100
74 24.6 19.1 28.7

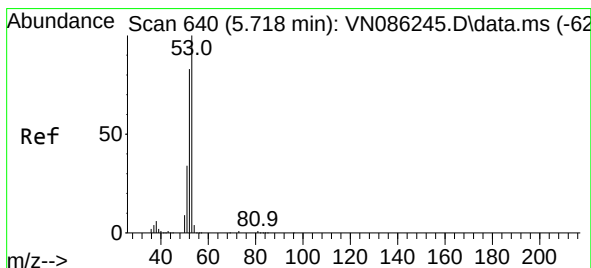
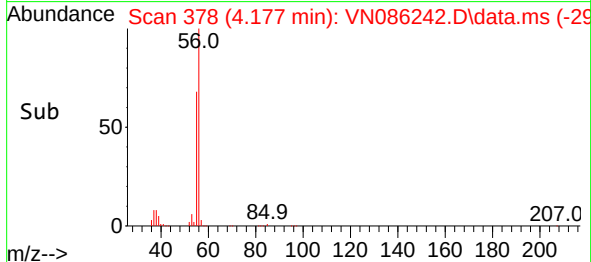
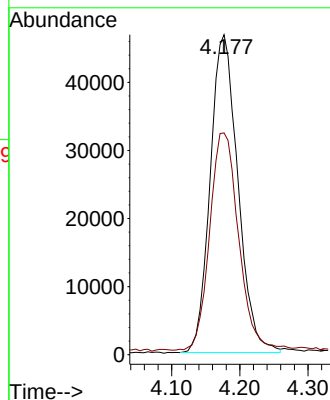
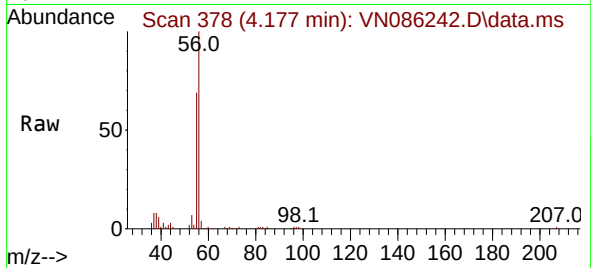




#13
Acrolein
Concen: 527.390 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

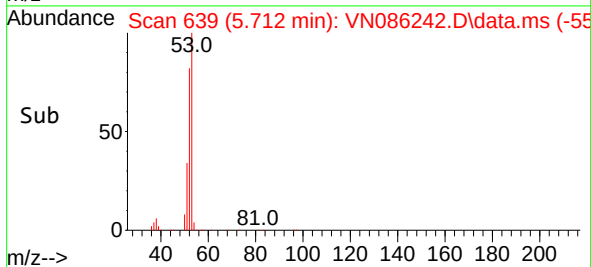
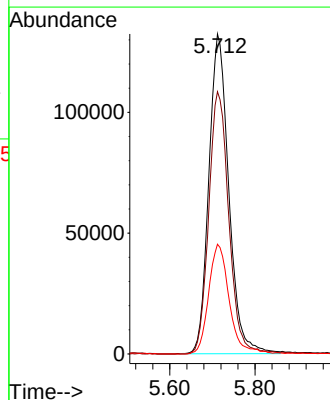
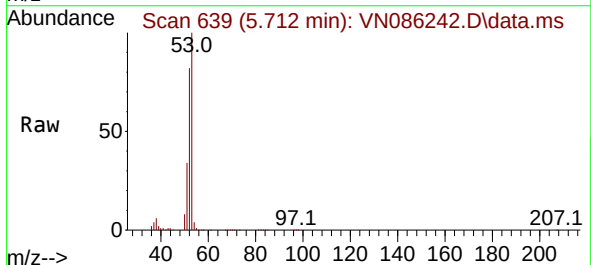
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

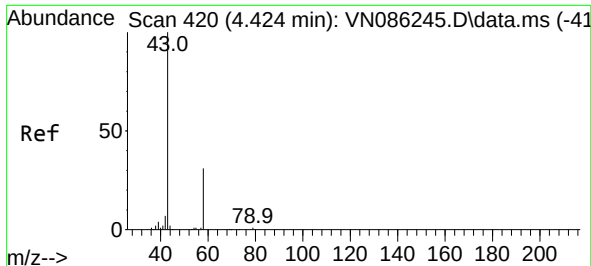
Tgt Ion: 56 Resp: 131999
Ion Ratio Lower Upper
56 100
55 70.9 56.5 84.7



#14
Acrylonitrile
Concen: 463.608 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 53 Resp: 430948
Ion Ratio Lower Upper
53 100
52 82.1 40.2 120.6
51 35.1 17.5 52.6

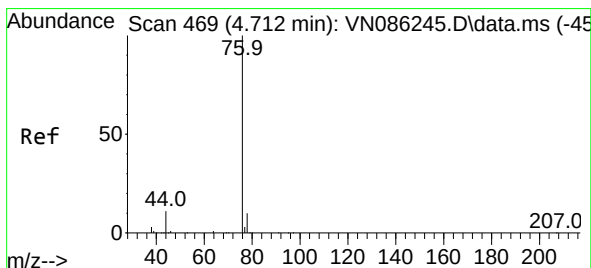
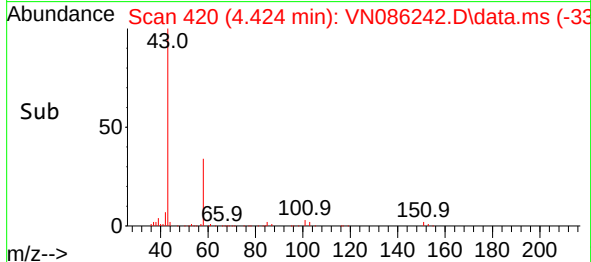
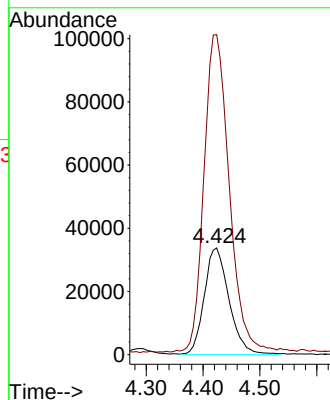
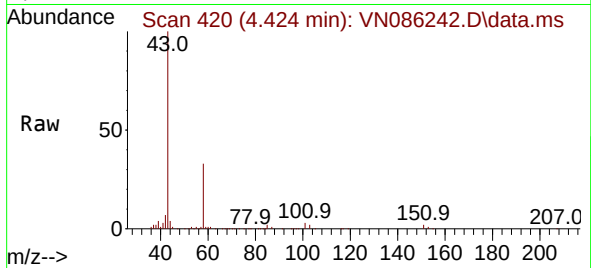




#15
Acetone
Concen: 434.159 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

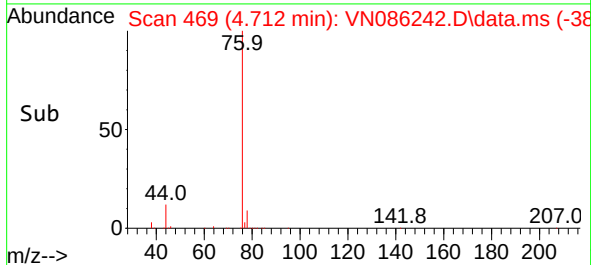
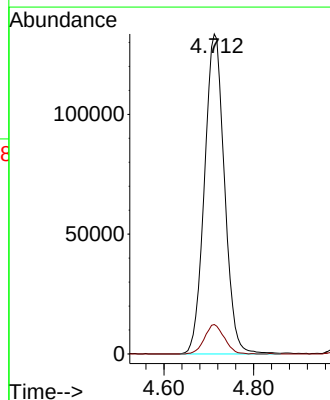
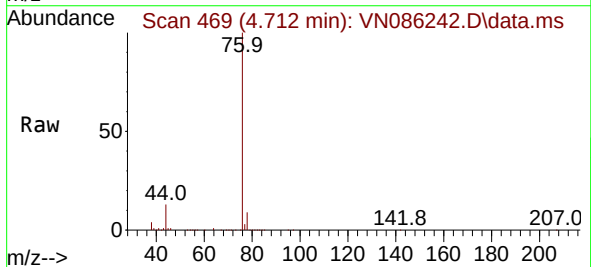
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

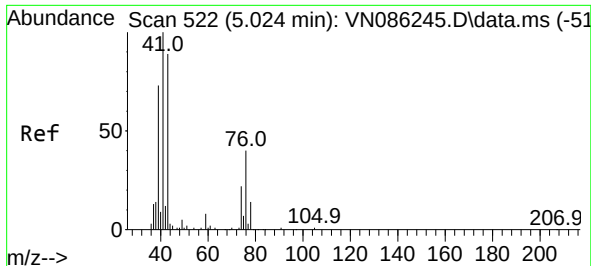
Tgt Ion: 58 Resp: 102413
Ion Ratio Lower Upper
58 100
43 297.7 261.8 392.8



#16
Carbon Disulfide
Concen: 92.399 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 76 Resp: 413127
Ion Ratio Lower Upper
76 100
78 9.2 7.7 11.5

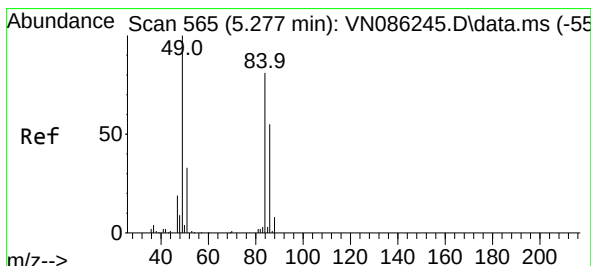
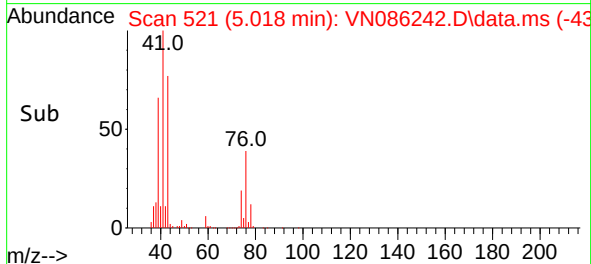
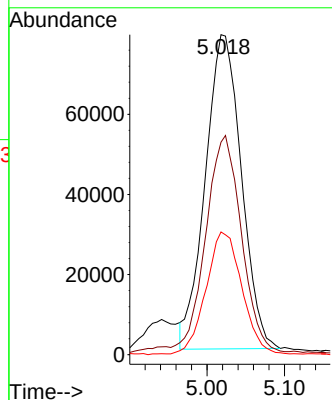
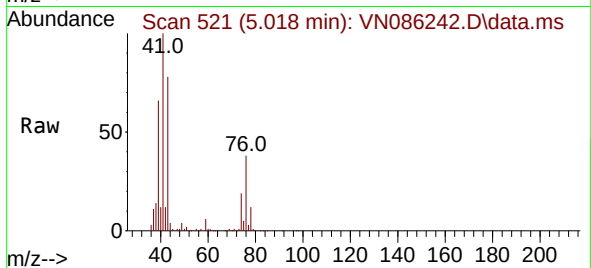




#17
 Allyl chloride
 Concen: 93.519 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

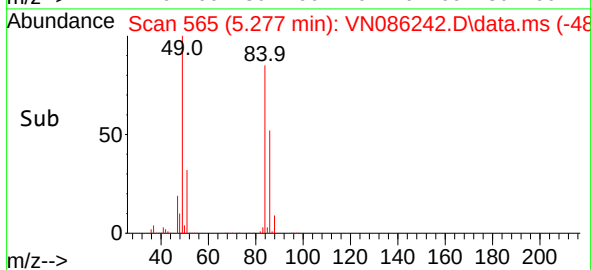
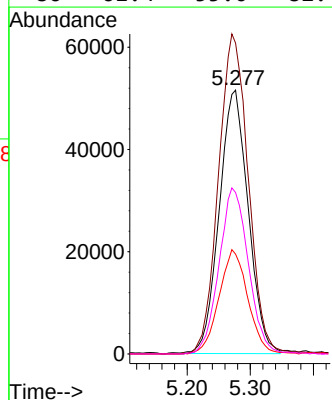
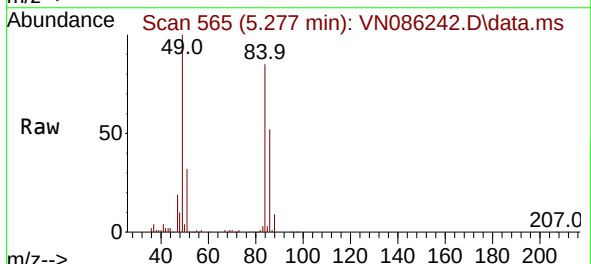
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

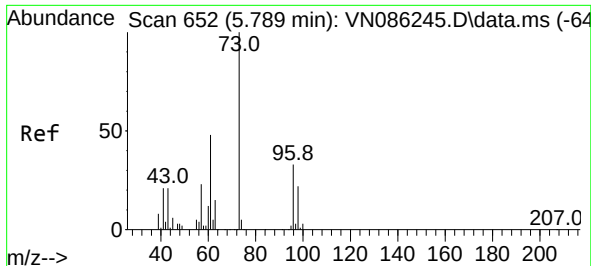
Tgt Ion: 41 Resp: 254150
 Ion Ratio Lower Upper
 41 100
 39 66.6 34.4 103.2
 76 38.5 18.8 56.3



#18
 Methylene Chloride
 Concen: 92.405 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Tgt Ion: 84 Resp: 164274
 Ion Ratio Lower Upper
 84 100
 49 118.2 99.1 148.7
 51 38.0 32.3 48.5
 86 61.4 55.0 82.4

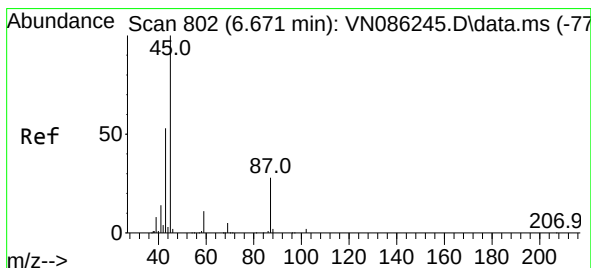
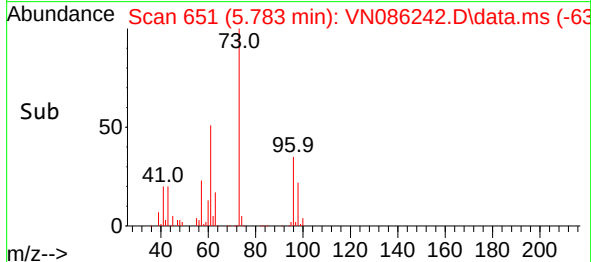
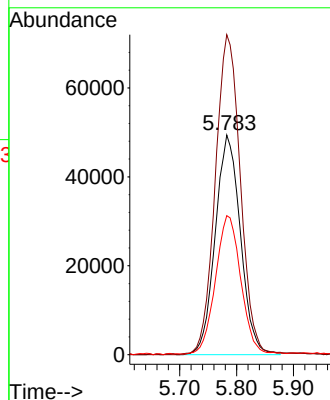
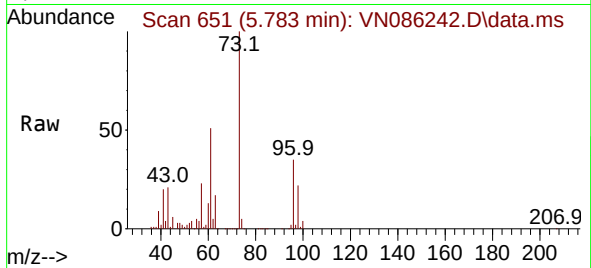




#19
trans-1,2-Dichloroethene
Concen: 108.281 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

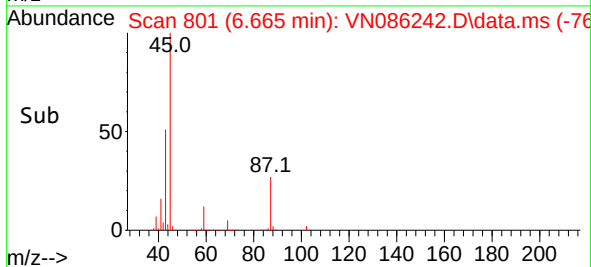
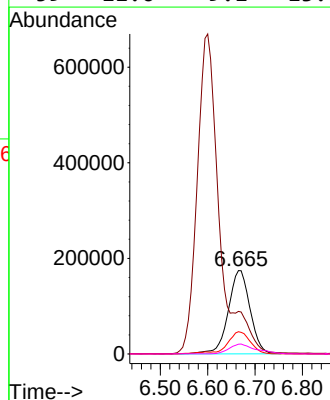
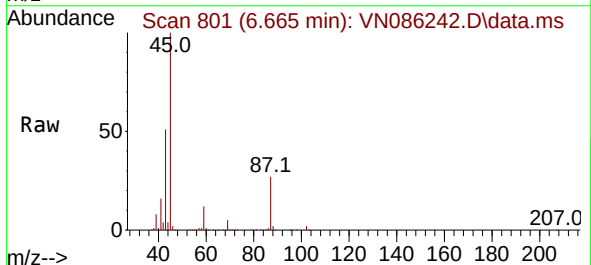
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

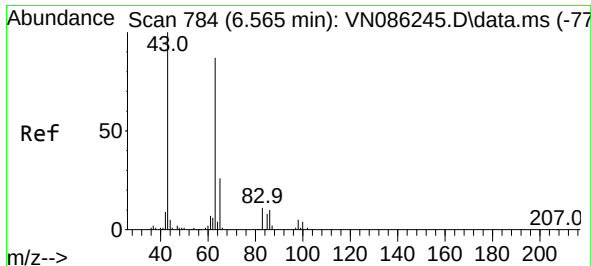
Tgt Ion: 96 Resp: 152296
Ion Ratio Lower Upper
96 100
61 145.7 115.9 173.9
98 62.9 52.1 78.1



#20
Diisopropyl ether
Concen: 95.034 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 45 Resp: 555310
Ion Ratio Lower Upper
45 100
43 49.6 42.3 63.5
87 26.5 22.2 33.4
59 11.6 9.1 13.7

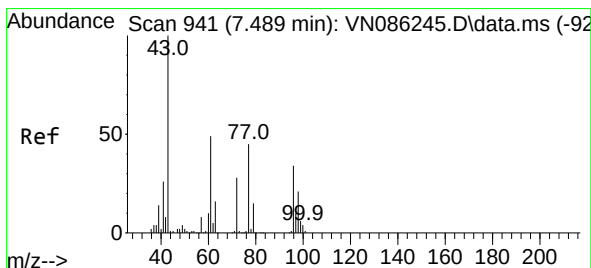
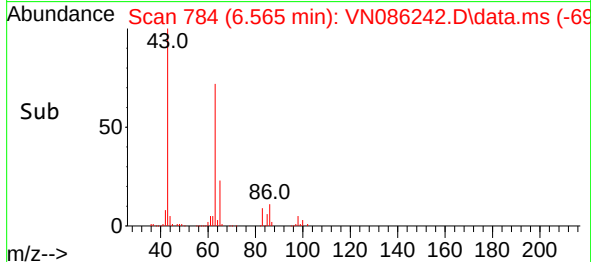
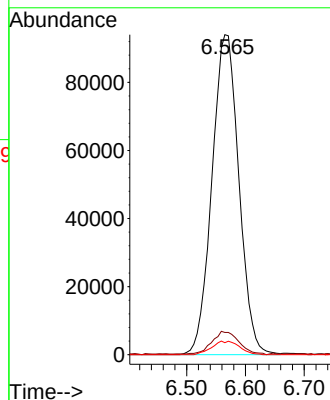
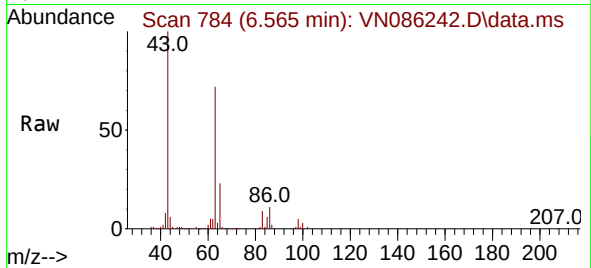




#21
1,1-Dichloroethane
Concen: 95.915 ug/l
RT: 6.565 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

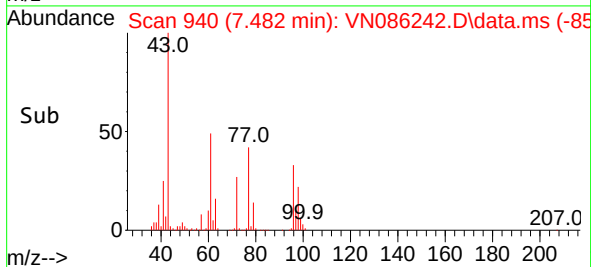
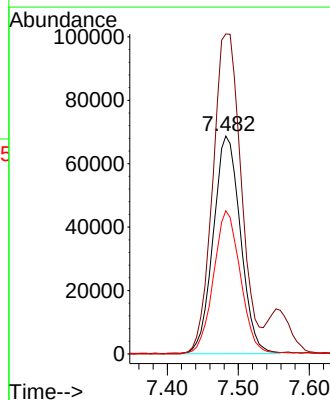
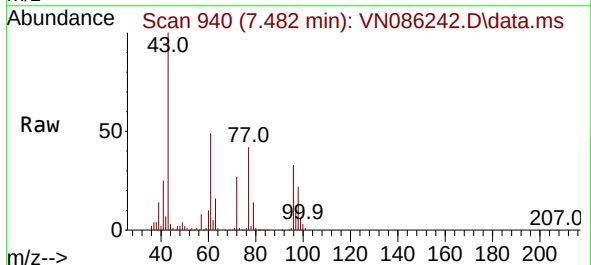
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

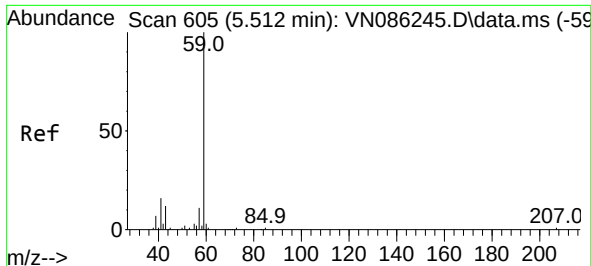
Tgt Ion: 63 Resp: 298980
Ion Ratio Lower Upper
63 100
98 6.7 3.1 9.3
100 3.8 2.3 6.9



#22
cis-1,2-Dichloroethene
Concen: 93.299 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 96 Resp: 182539
Ion Ratio Lower Upper
96 100
61 154.3 119.5 179.3
98 64.4 51.0 76.6

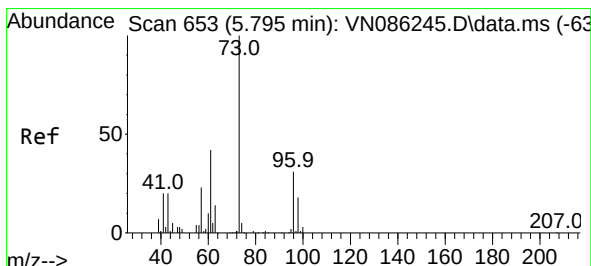
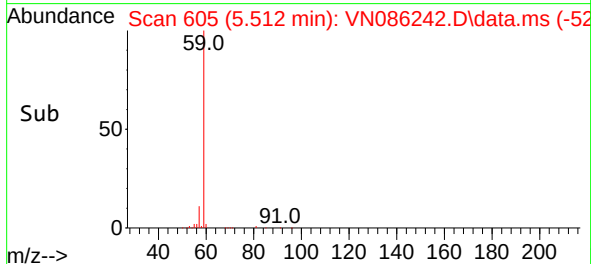
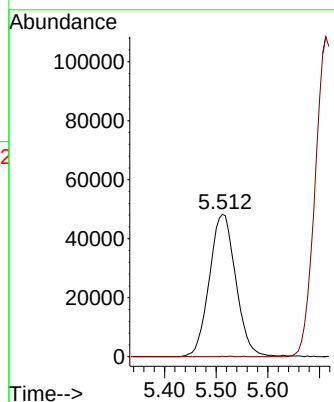
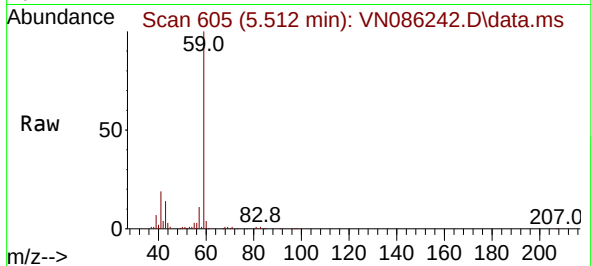




#23
tert-Butyl Alcohol
Concen: 445.280 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

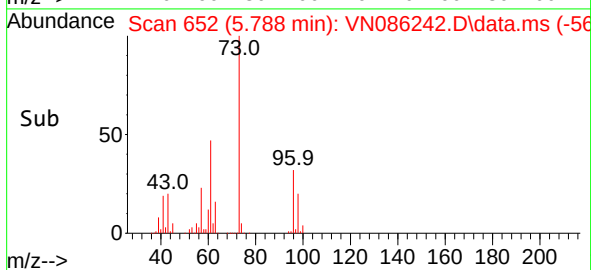
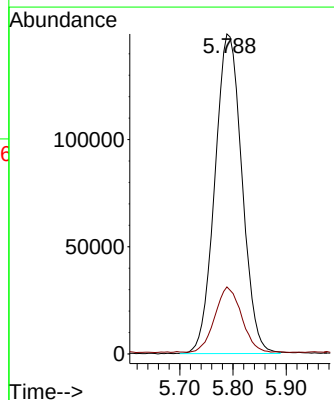
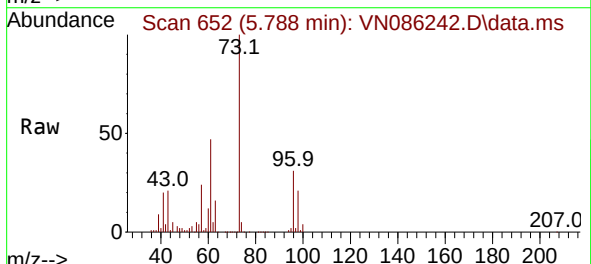
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

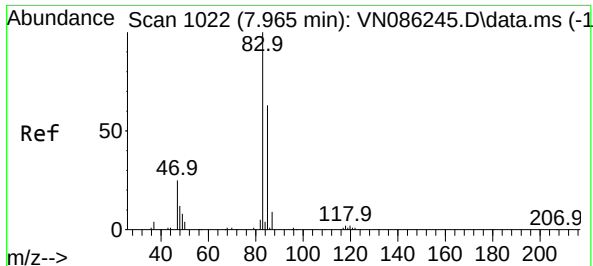
Tgt Ion: 59 Resp: 171504
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 93.663 ug/l
RT: 5.788 min Scan# 652
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 73 Resp: 526162
Ion Ratio Lower Upper
73 100
43 19.9 16.8 25.2

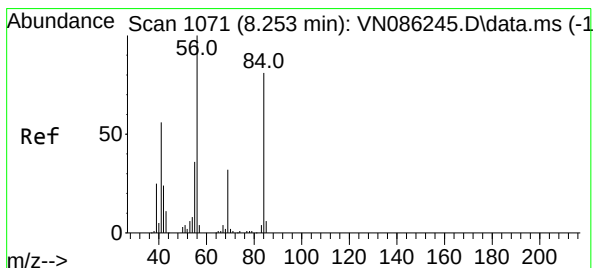
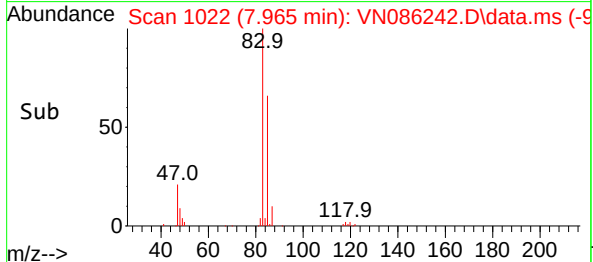
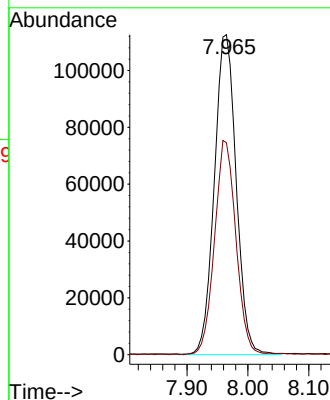
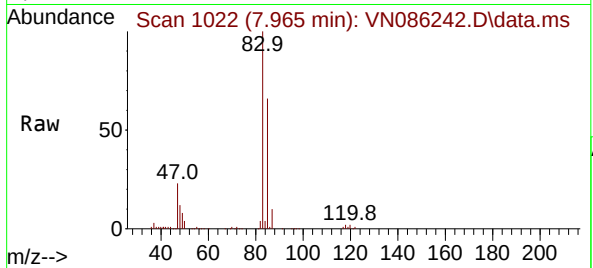




#25
Chloroform
Concen: 94.604 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

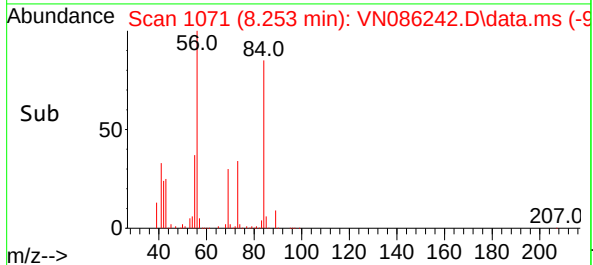
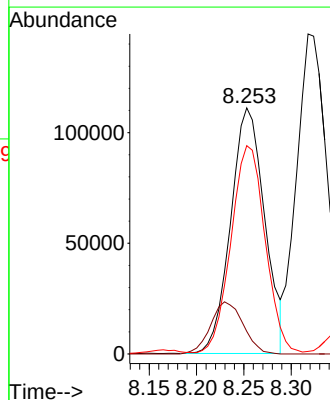
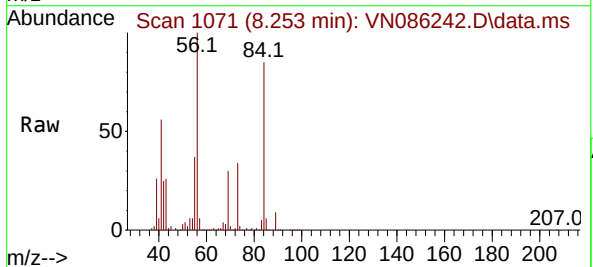
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

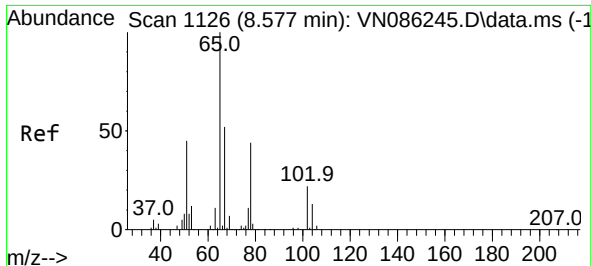
Tgt Ion: 83 Resp: 281205
Ion Ratio Lower Upper
83 100
85 66.0 50.5 75.7



#26
Cyclohexane
Concen: 95.155 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 56 Resp: 277499
Ion Ratio Lower Upper
56 100
89 20.3 0.0 0.0#
84 85.5 69.0 103.4

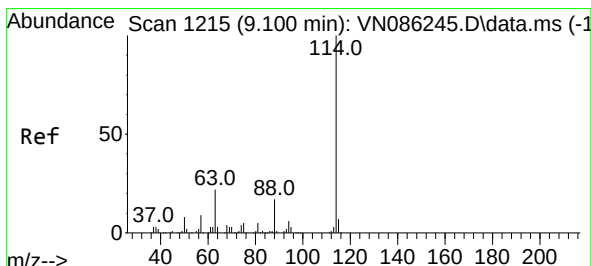
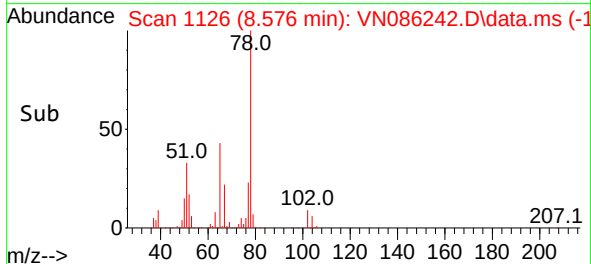
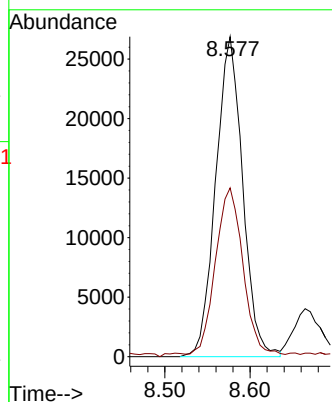
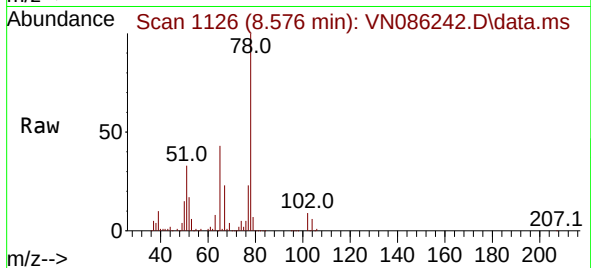




#27
 1,2-Dichloroethane-d4
 Concen: 29.547 ug/l
 RT: 8.576 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

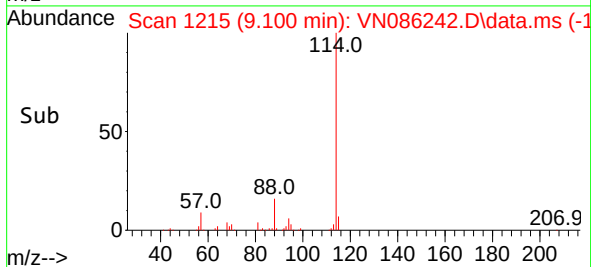
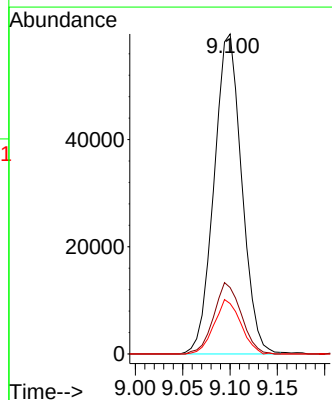
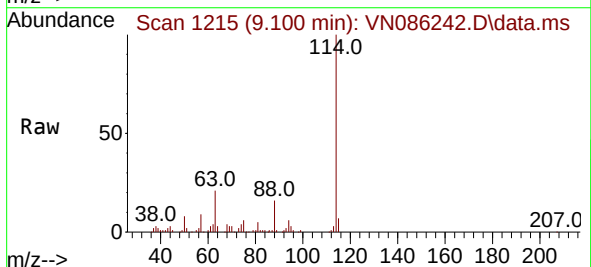
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

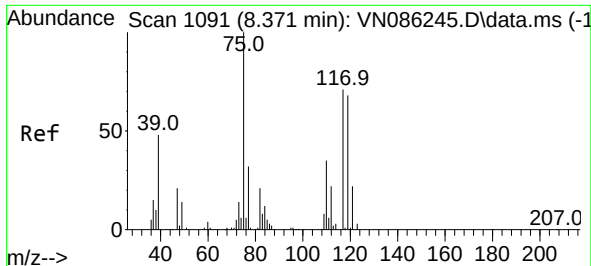
Tgt Ion: 65 Resp: 59014
 Ion Ratio Lower Upper
 65 100
 67 52.6 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086242.D
 Acq: 11 Apr 2025 11:04

Tgt Ion: 114 Resp: 121329
 Ion Ratio Lower Upper
 114 100
 63 22.1 17.8 26.6
 88 16.3 13.4 20.2

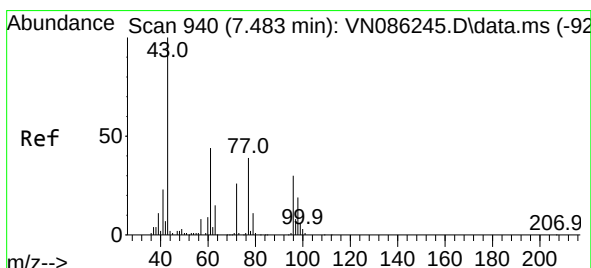
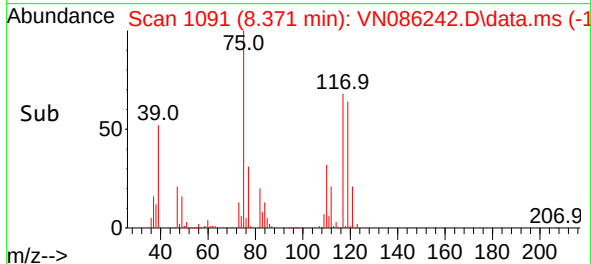
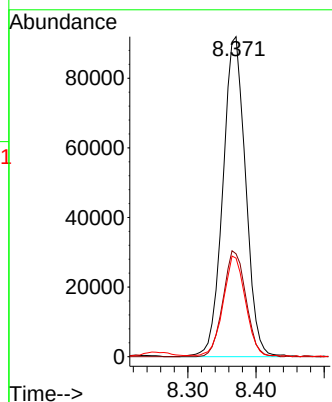
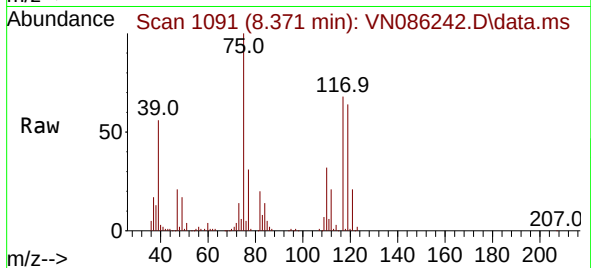




#29
1,1-Dichloropropene
Concen: 98.138 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

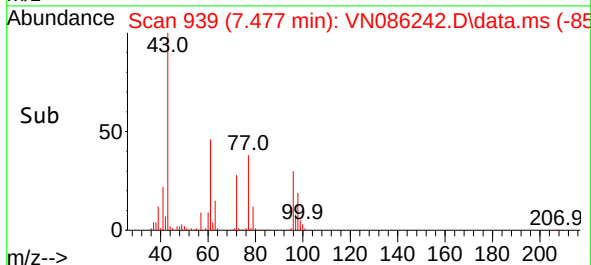
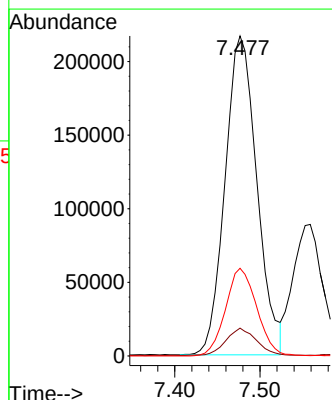
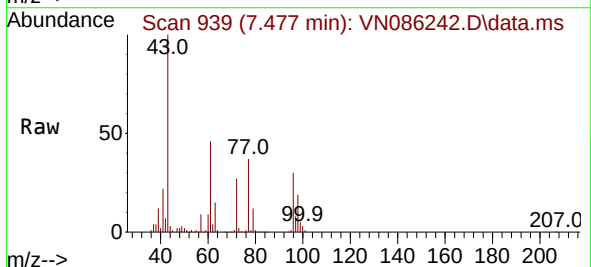
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

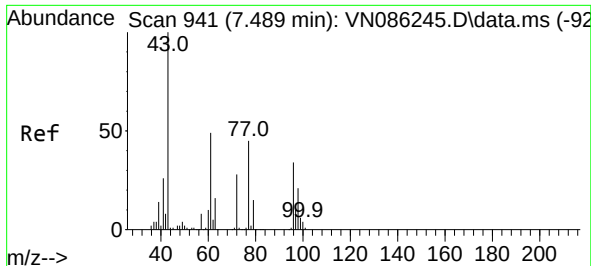
Tgt Ion: 75 Resp: 213302
Ion Ratio Lower Upper
75 100
110 33.2 0.0 68.6
77 31.4 0.0 63.8



#30
2-Butanone
Concen: 467.239 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 562722
Ion Ratio Lower Upper
43 100
57 8.2 6.4 9.6
72 27.0 21.5 32.3

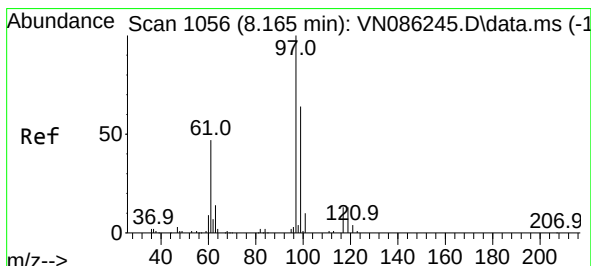
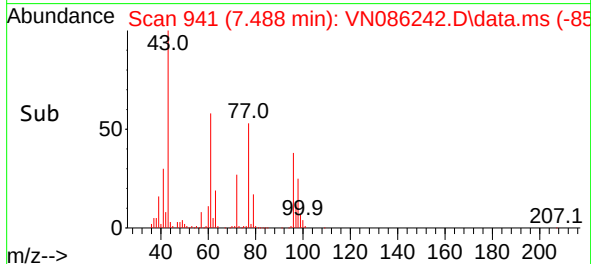
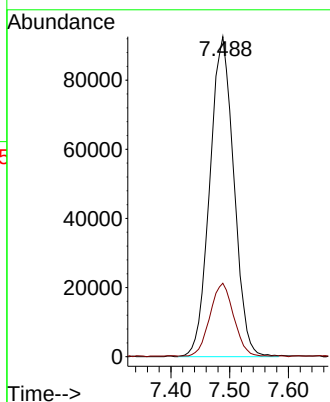
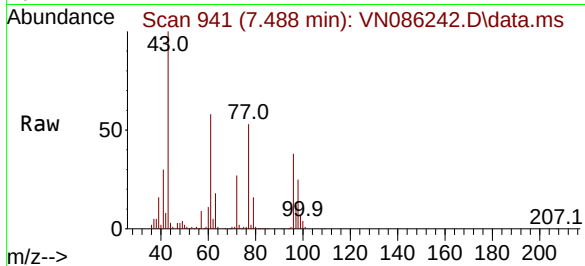




#31
2,2-Dichloropropane
Concen: 98.472 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

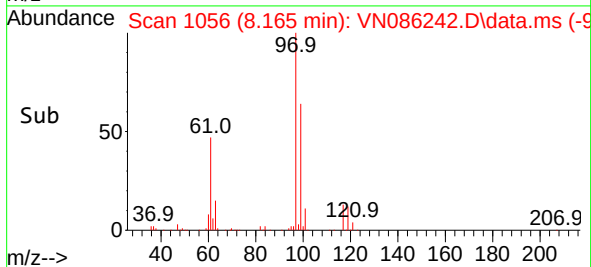
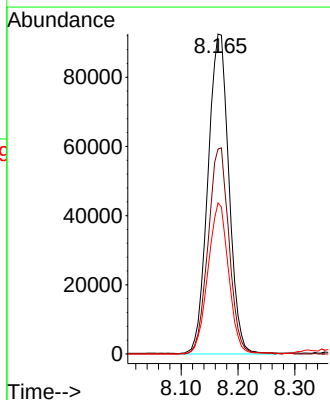
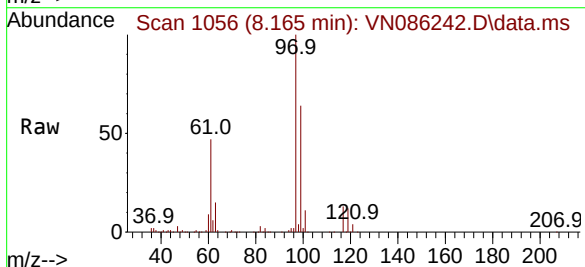
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

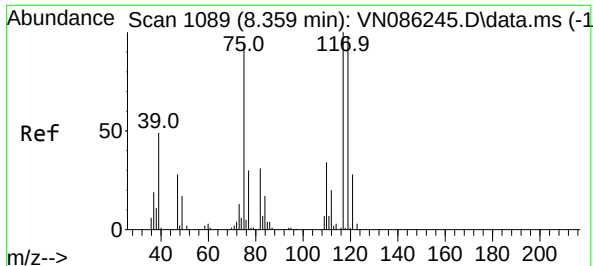
Tgt Ion: 77 Resp: 263451
Ion Ratio Lower Upper
77 100
97 22.6 18.8 28.2



#32
1,1,1-Trichloroethane
Concen: 94.957 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

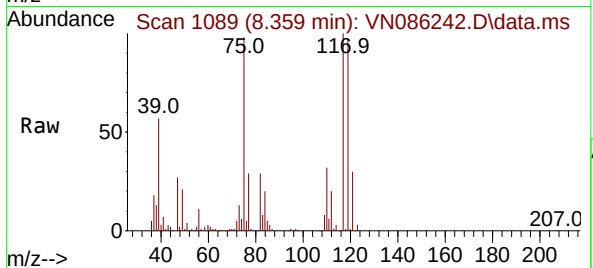
Tgt Ion: 97 Resp: 237411
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 46.3 37.0 55.6



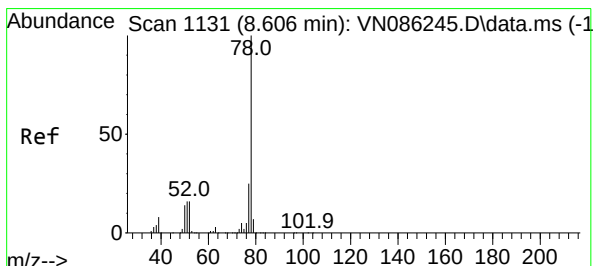
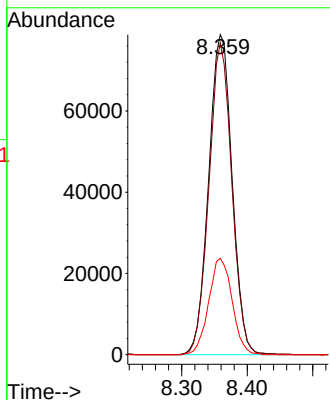
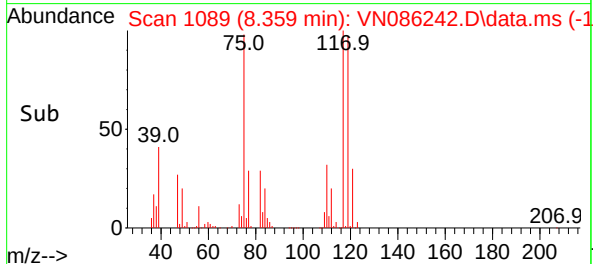


#33
Carbon Tetrachloride
Concen: 98.048 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

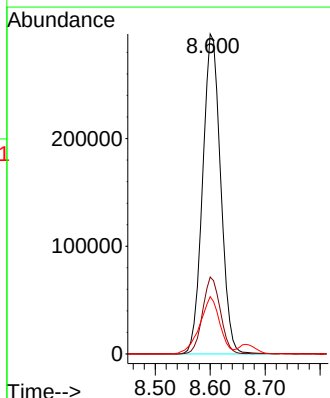
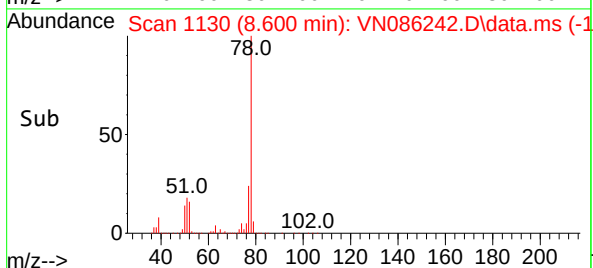
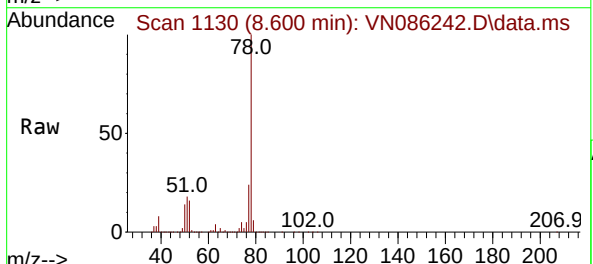


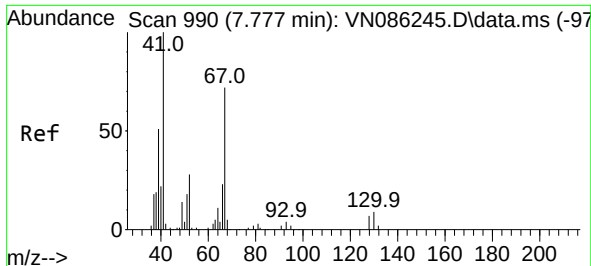
Tgt Ion:117 Resp: 195904
Ion Ratio Lower Upper
117 100
119 97.4 78.3 117.5
121 30.1 22.5 33.7



#34
Benzene
Concen: 97.638 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 78 Resp: 675144
Ion Ratio Lower Upper
78 100
77 24.1 20.0 30.0
51 17.9 12.9 19.3



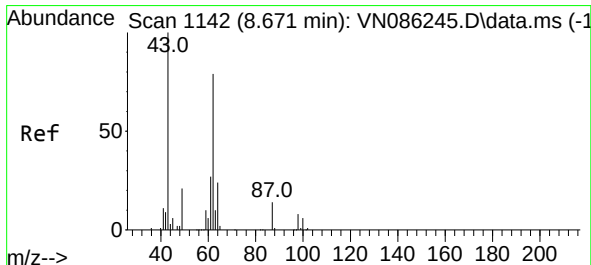
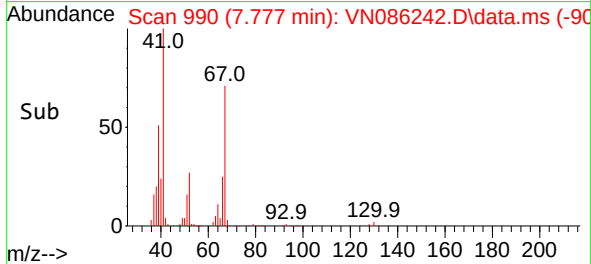
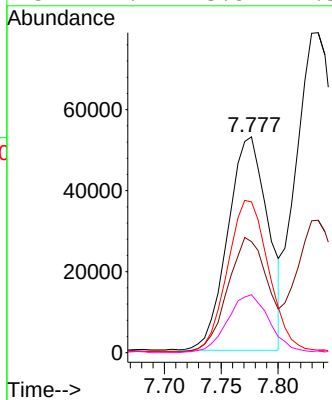
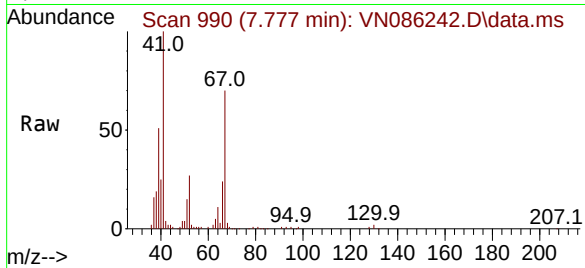


#35
Methacrylonitrile
Concen: 95.604 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 41 Resp: 129803

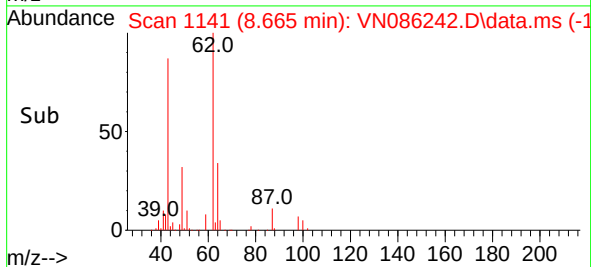
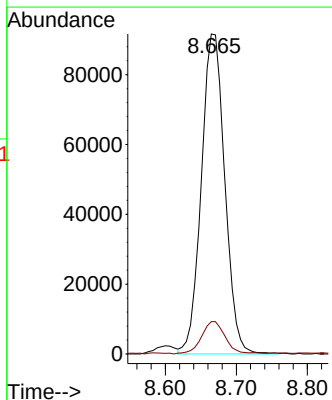
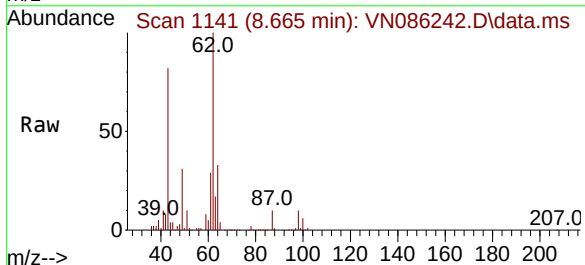
Ion	Ratio	Lower	Upper
41	100		
39	51.5	25.8	77.3
67	70.4	36.0	108.0
52	27.2	13.8	41.3

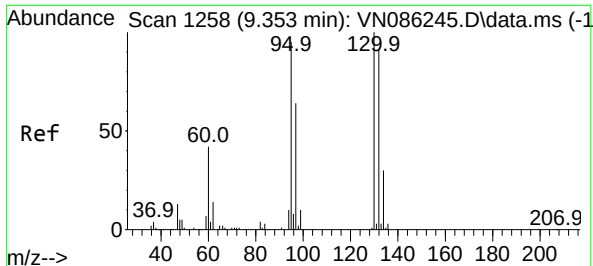


#36
1,2-Dichloroethane
Concen: 97.412 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 62 Resp: 210783

Ion	Ratio	Lower	Upper
62	100		
98	10.1	8.6	12.8





#37

Trichloroethene

Concen: 97.775 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

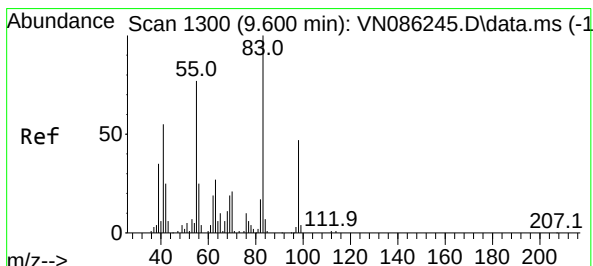
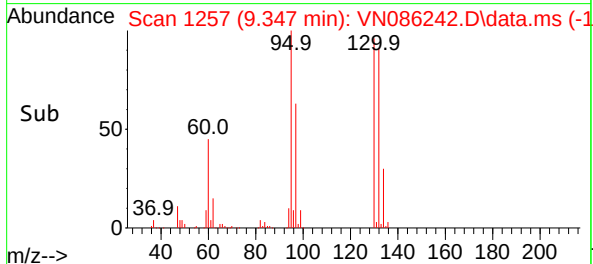
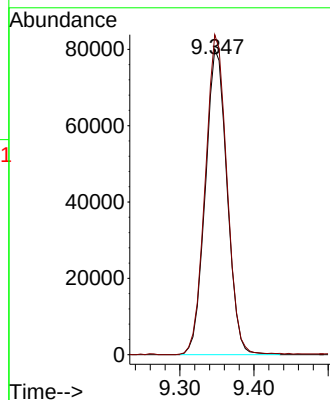
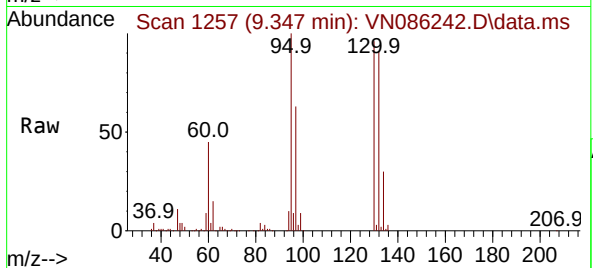
VSTDIC100

Tgt Ion:130 Resp: 163126

Ion Ratio Lower Upper

130 100

95 104.5 76.4 114.6



#38

Methylcyclohexane

Concen: 99.571 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

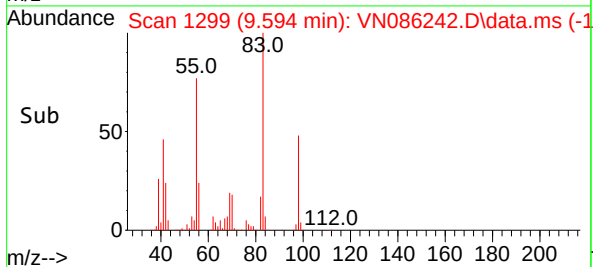
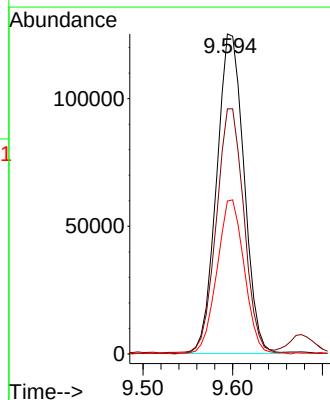
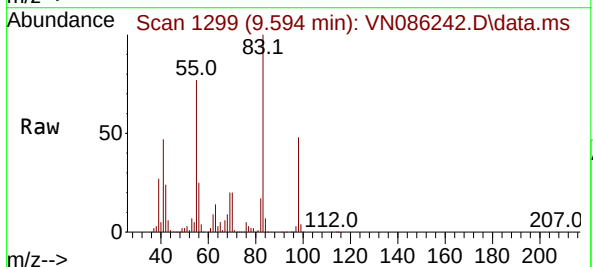
Tgt Ion: 83 Resp: 265418

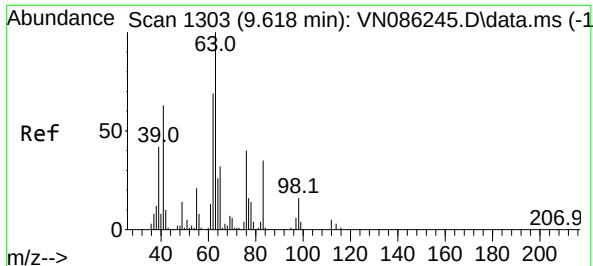
Ion Ratio Lower Upper

83 100

55 76.8 38.5 115.5

98 48.3 24.4 73.2





#39

1,2-Dichloropropane

Concen: 98.606 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

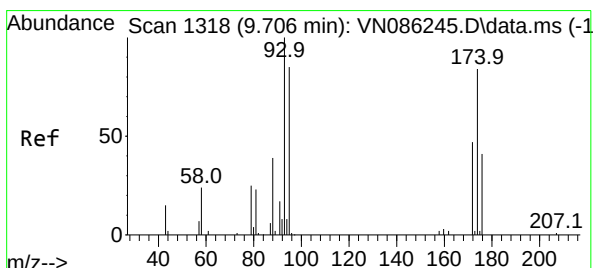
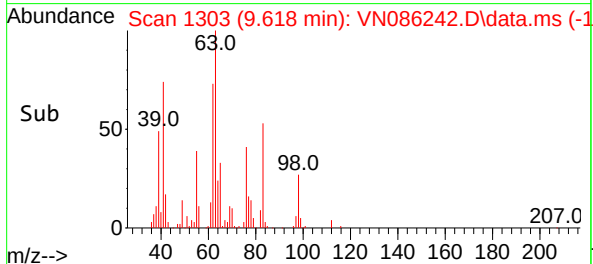
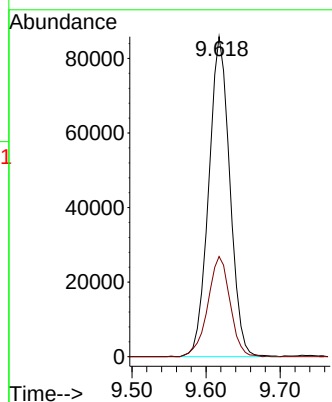
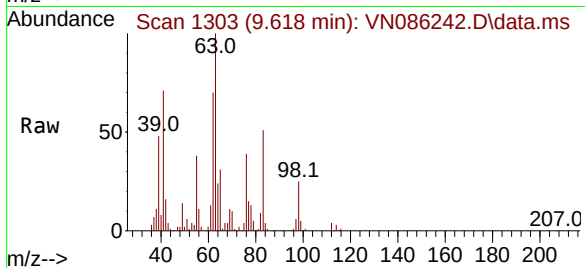
VSTDIC100

Tgt Ion: 63 Resp: 169660

Ion Ratio Lower Upper

63 100

65 31.3 26.0 39.0



#40

Dibromomethane

Concen: 94.904 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

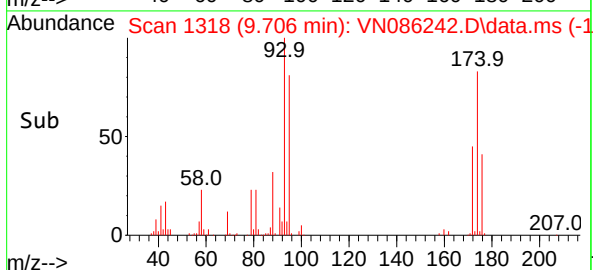
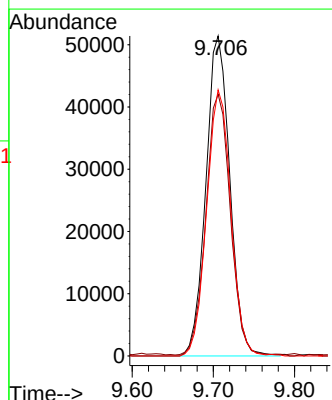
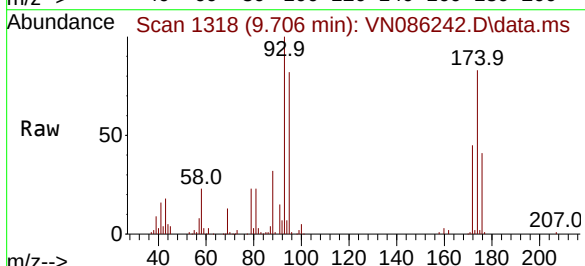
Tgt Ion: 93 Resp: 105464

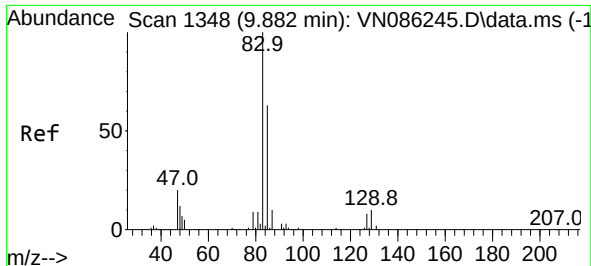
Ion Ratio Lower Upper

93 100

95 83.1 0.0 169.0

174 83.9 0.0 168.0

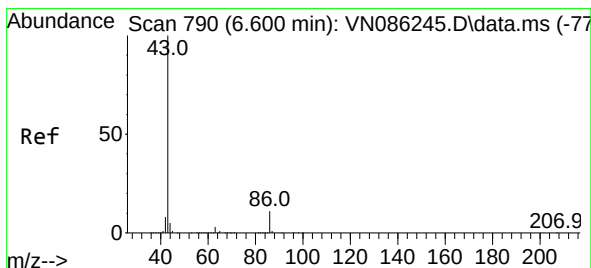
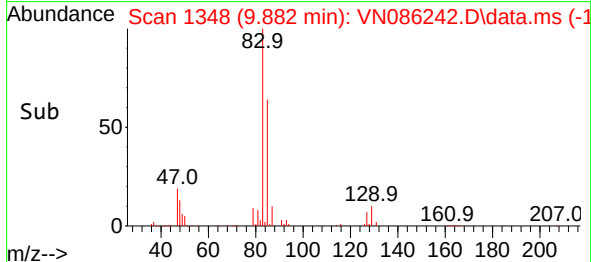
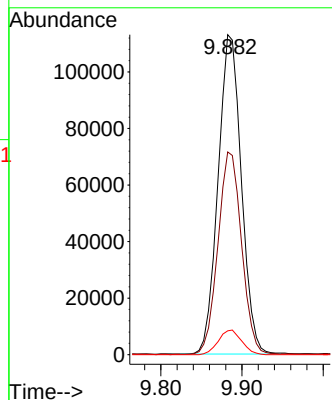
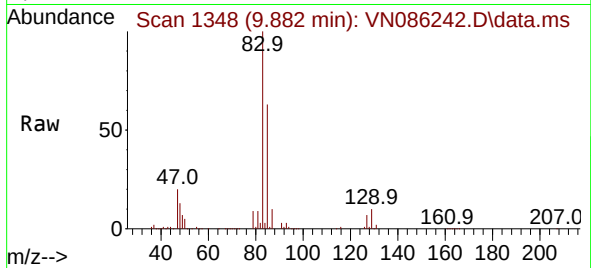




#41
Bromodichloromethane
Concen: 94.332 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

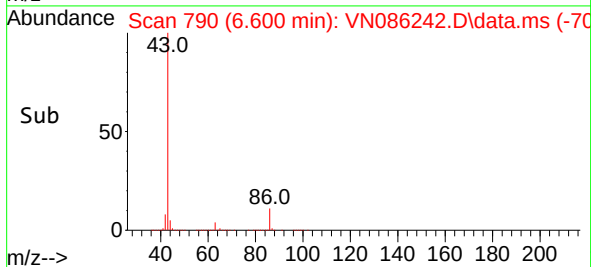
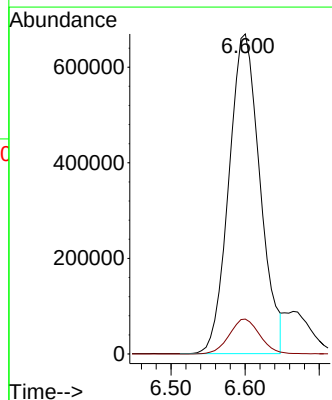
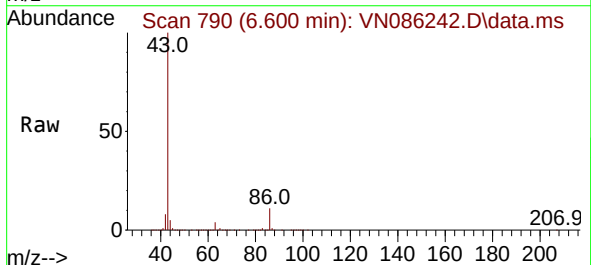
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

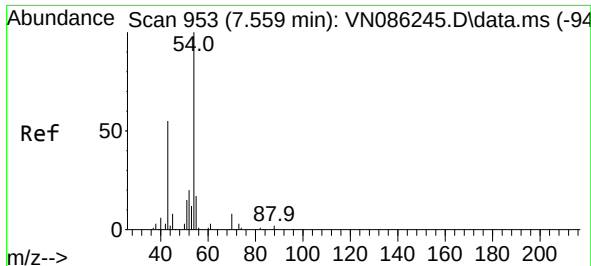
Tgt Ion: 83 Resp: 225206
Ion Ratio Lower Upper
83 100
85 63.3 50.2 75.2
127 7.5 6.2 9.4



#42
Vinyl Acetate
Concen: 475.901 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 1951001
Ion Ratio Lower Upper
43 100
86 10.7 8.4 12.6

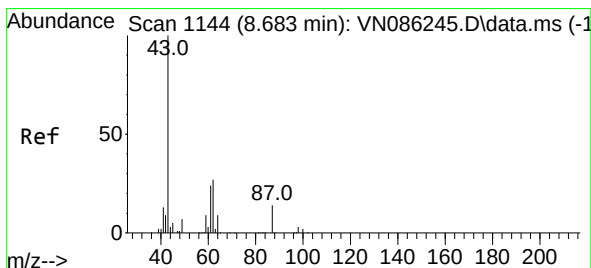
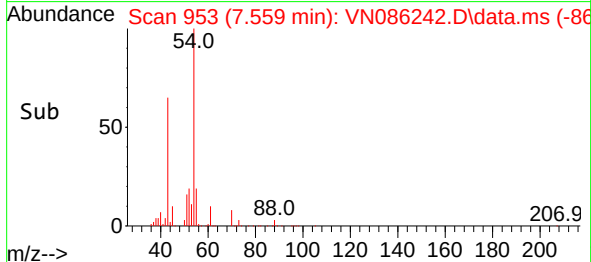
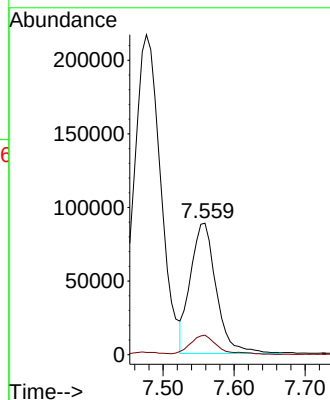
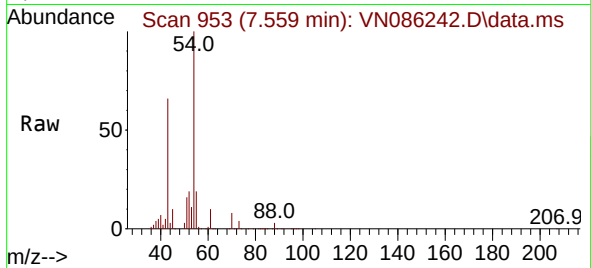




#43
Ethyl Acetate
Concen: 91.520 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

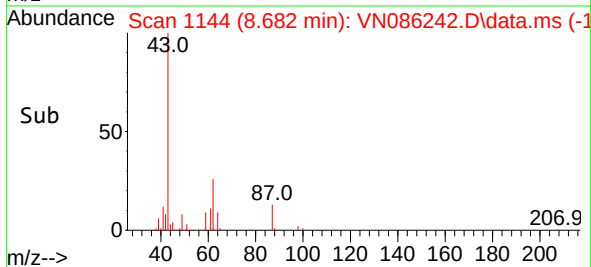
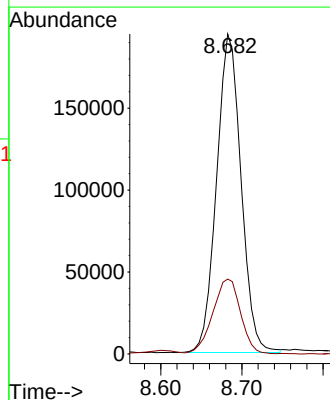
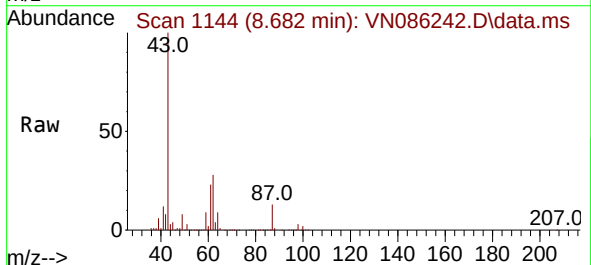
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

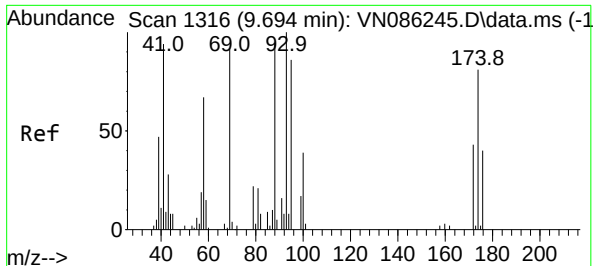
Tgt Ion: 43 Resp: 222324
Ion Ratio Lower Upper
43 100
45 13.5 11.2 16.8



#44
Isopropyl Acetate
Concen: 90.431 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 407532
Ion Ratio Lower Upper
43 100
61 26.7 20.5 30.7

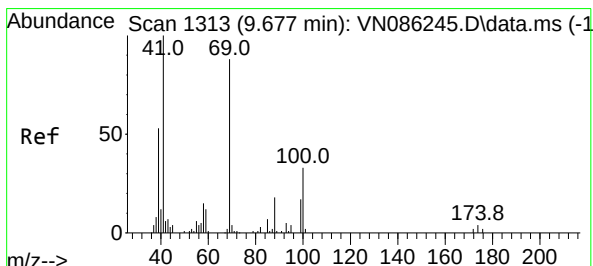
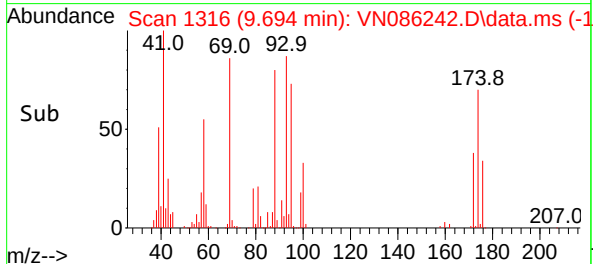
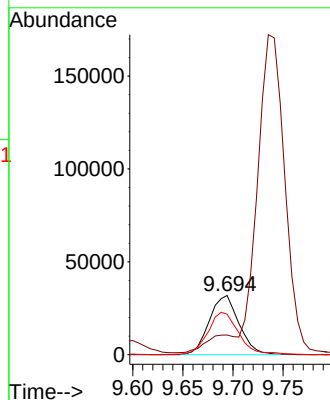
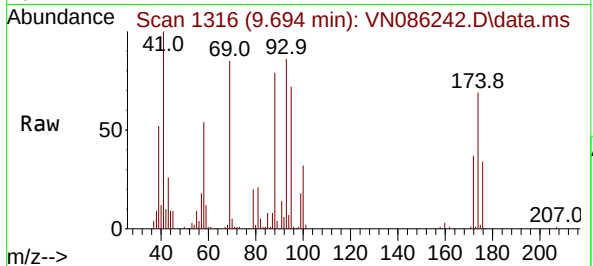




#45
1,4-Dioxane
Concen: 1836.730 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

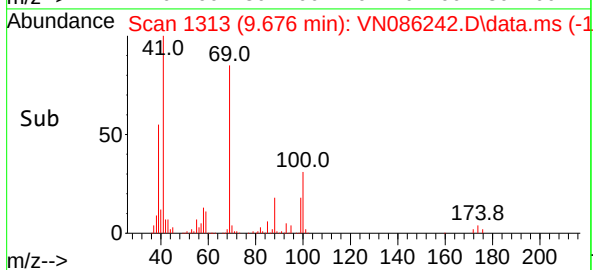
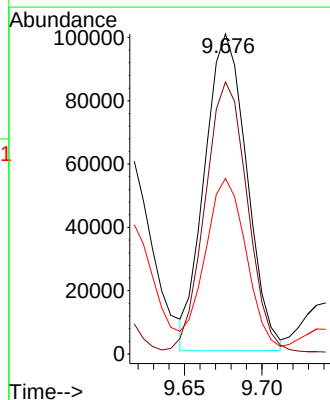
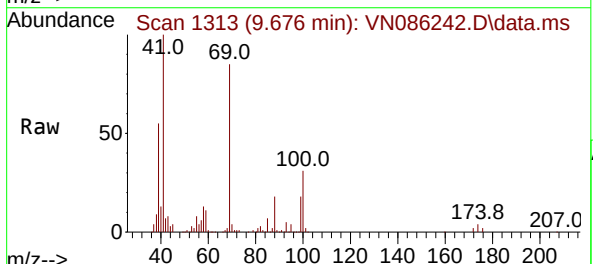
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

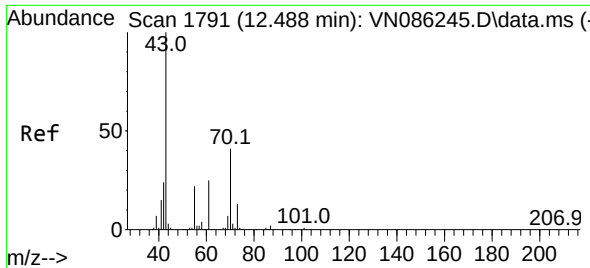
Tgt Ion: 88 Resp: 65820
Ion Ratio Lower Upper
88 100
43 34.0 14.4 21.6#
58 73.3 59.8 89.8



#46
Methyl methacrylate
Concen: 95.302 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 41 Resp: 189237
Ion Ratio Lower Upper
41 100
69 86.0 43.2 129.6
39 54.9 26.4 79.0

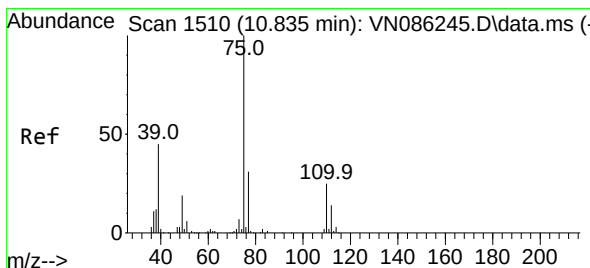
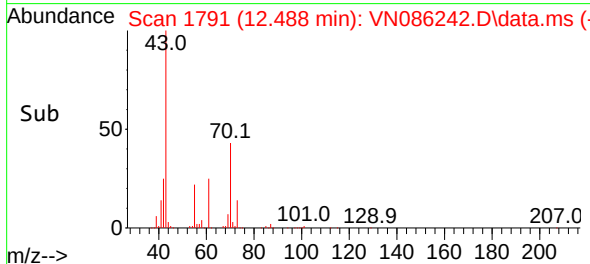
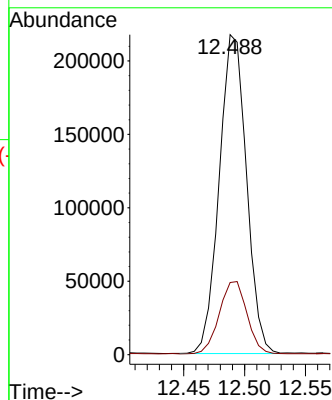
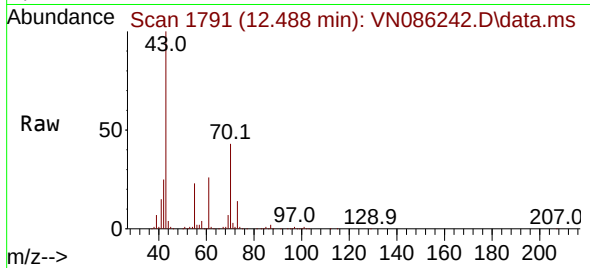




#47
n-amyl acetate
Concen: 92.953 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

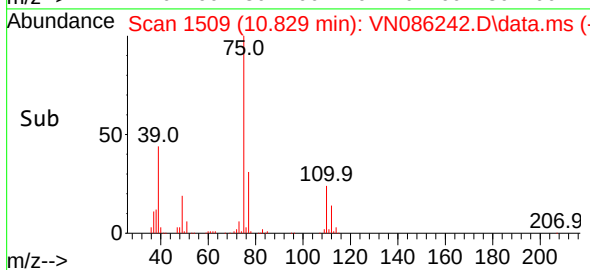
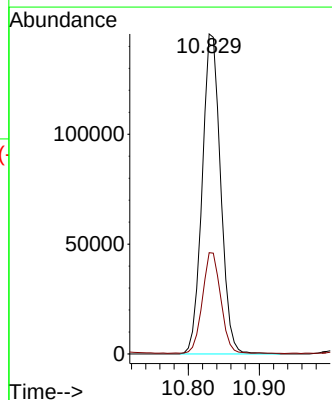
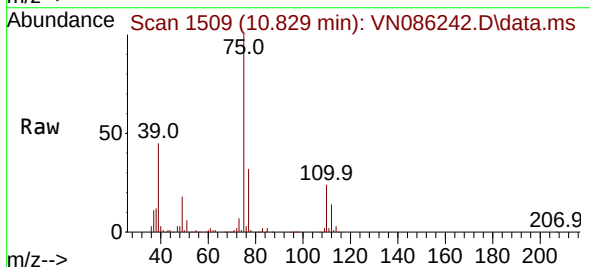
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

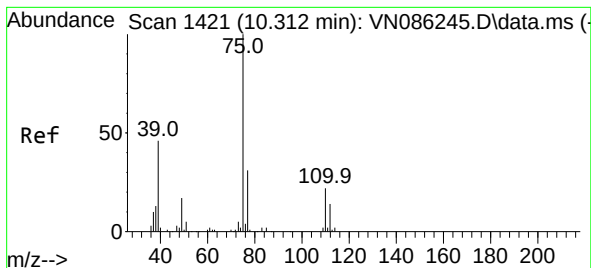
Tgt Ion: 43 Resp: 338467
Ion Ratio Lower Upper
43 100
55 23.1 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 97.471 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 75 Resp: 263069
Ion Ratio Lower Upper
75 100
77 31.4 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 98.600 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

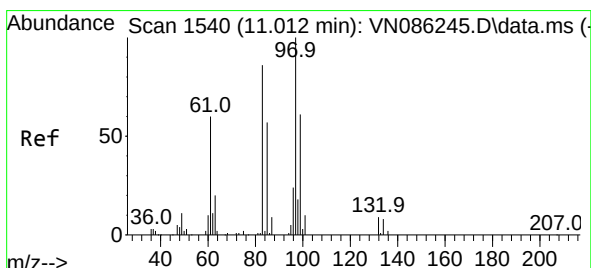
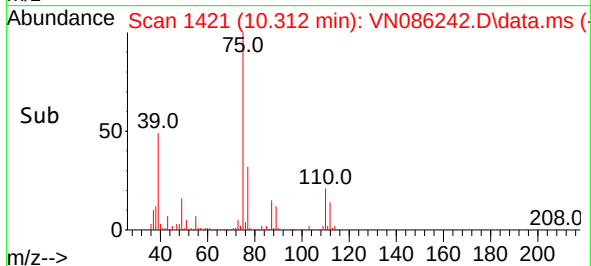
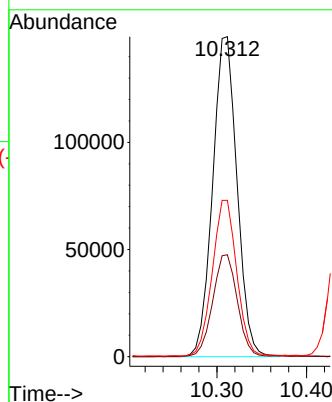
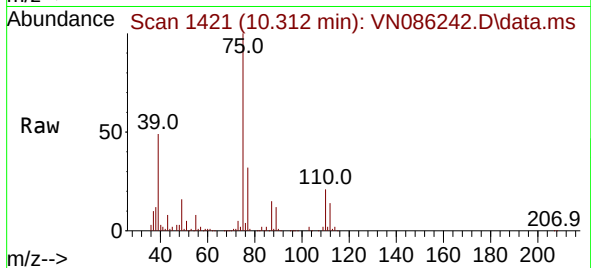
Tgt Ion: 75 Resp: 281650

Ion Ratio Lower Upper

75 100

77 31.7 25.0 37.4

39 48.6 36.7 55.1



#50

1,1,2-Trichloroethane

Concen: 94.534 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion: 97 Resp: 147343

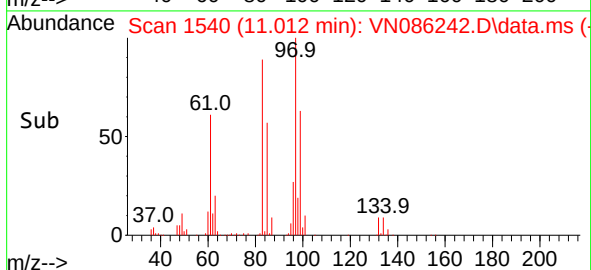
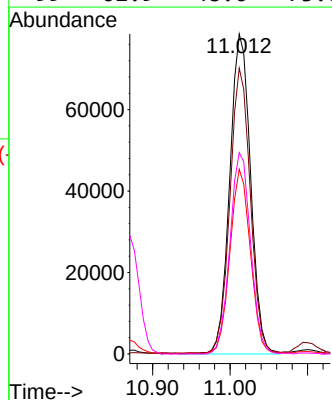
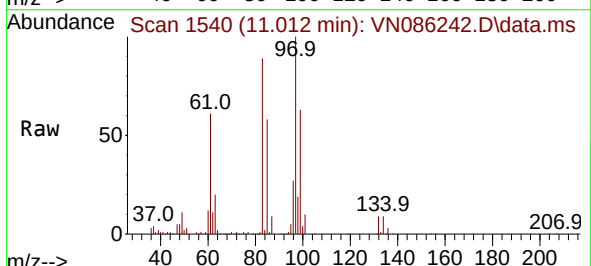
Ion Ratio Lower Upper

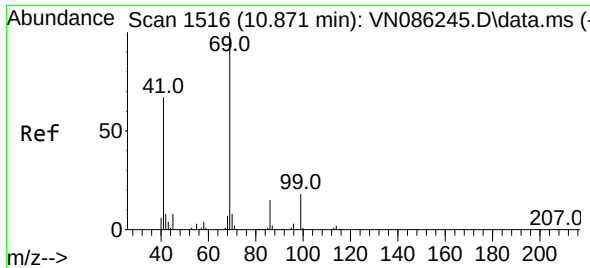
97 100

83 89.0 68.6 103.0

85 57.5 45.9 68.9

99 62.9 48.6 73.0

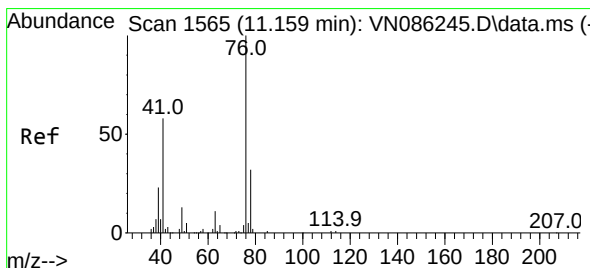
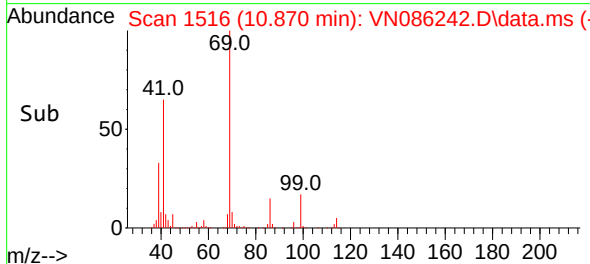
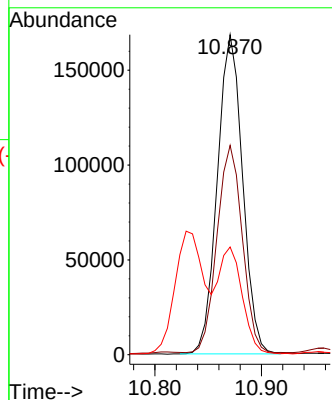
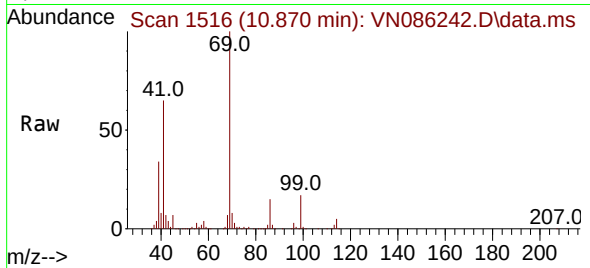




#51
Ethyl methacrylate
Concen: 95.629 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

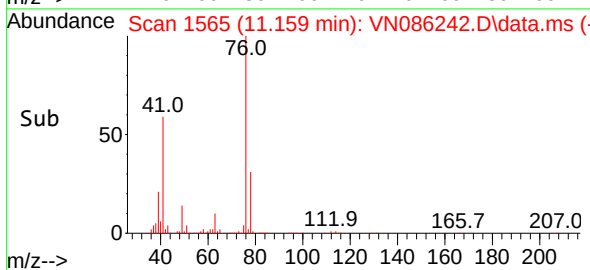
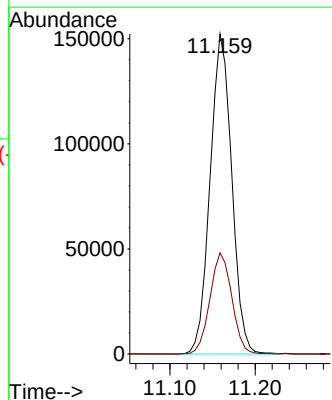
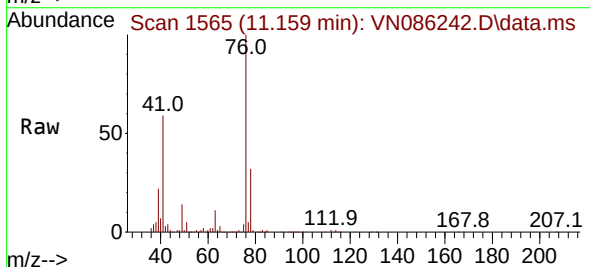
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

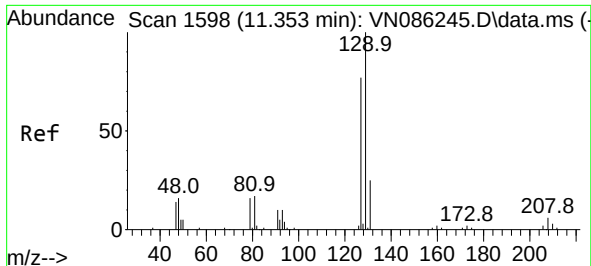
Tgt Ion: 69 Resp: 276983
Ion Ratio Lower Upper
69 100
41 64.9 33.6 100.6
39 33.4 17.8 53.4



#52
1,3-Dichloropropane
Concen: 96.673 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 76 Resp: 268559
Ion Ratio Lower Upper
76 100
78 31.9 0.0 64.6

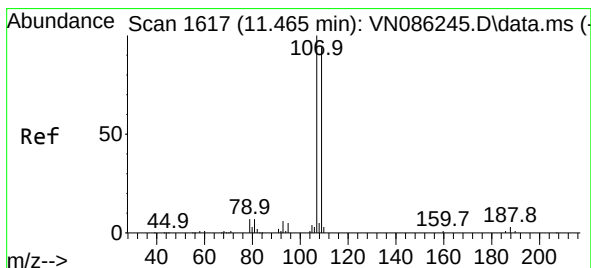
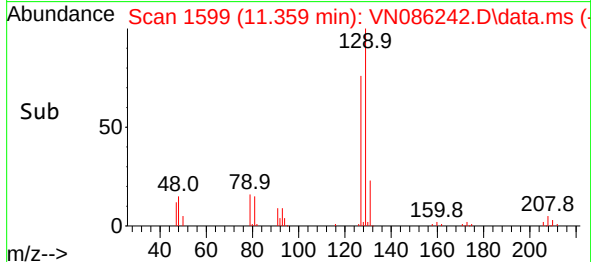
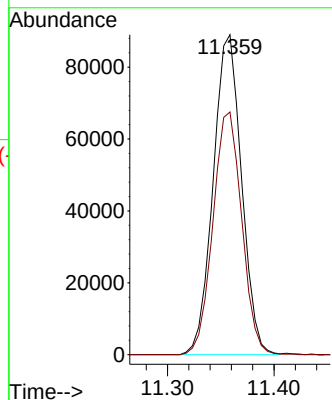
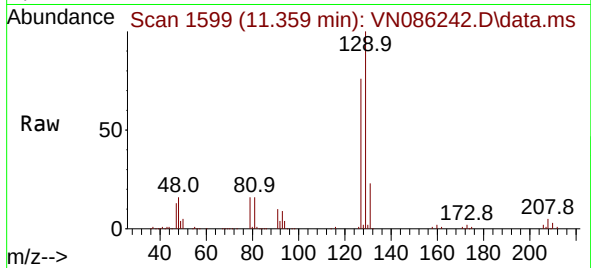




#53
Dibromochloromethane
Concen: 96.562 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

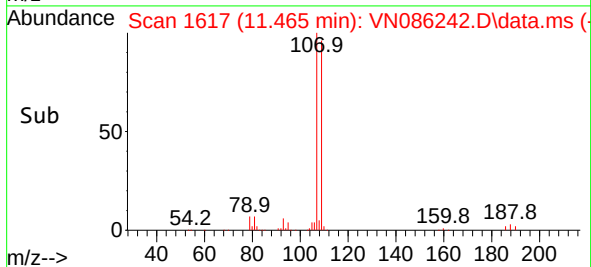
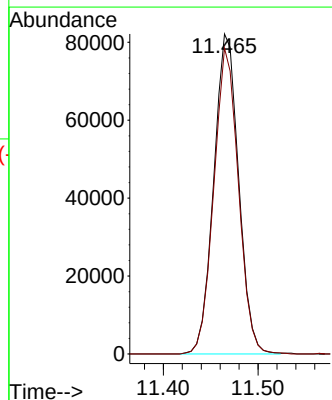
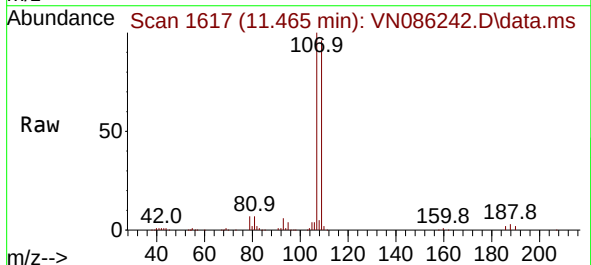
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

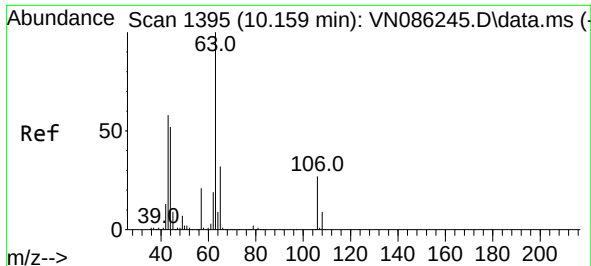
Tgt Ion:129 Resp: 164626
Ion Ratio Lower Upper
129 100
127 76.8 38.5 115.5



#54
1,2-Dibromoethane
Concen: 95.239 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:107 Resp: 149844
Ion Ratio Lower Upper
107 100
109 94.5 75.2 112.8

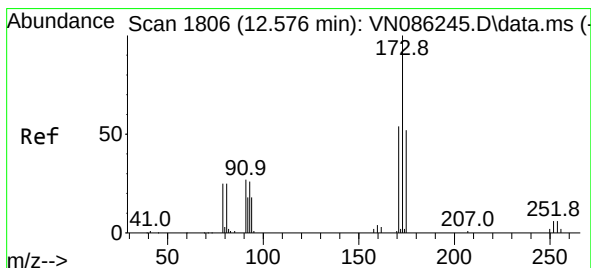
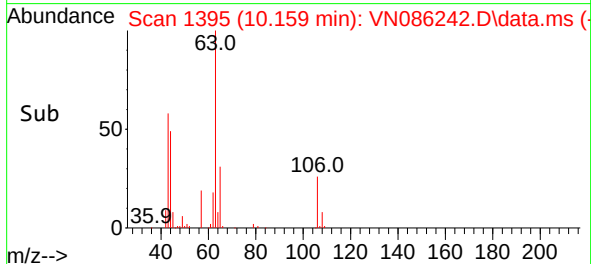
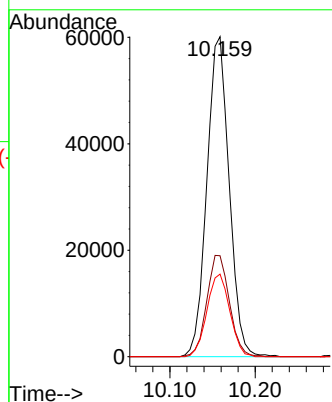
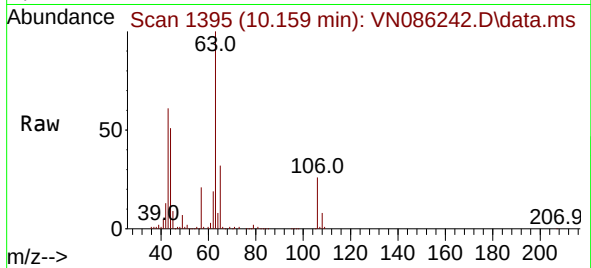




#55
2-Chloroethyl vinyl ether
Concen: 99.826 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

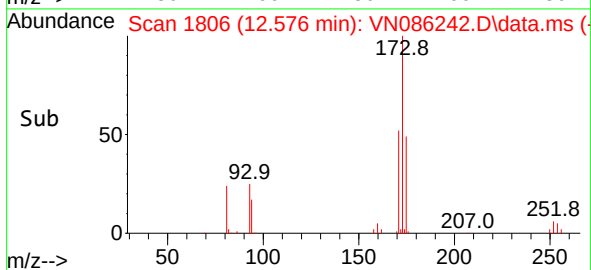
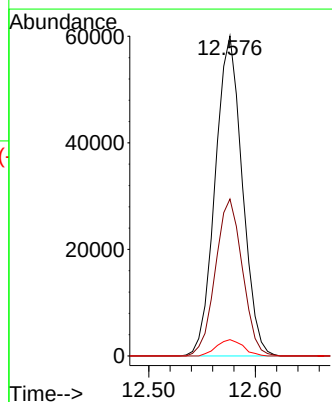
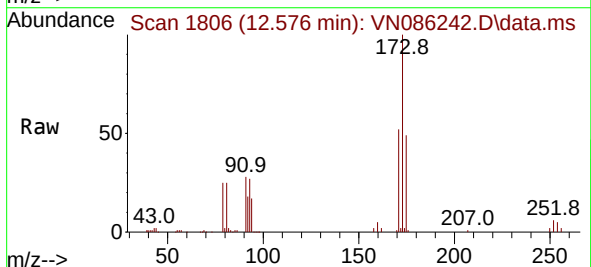
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

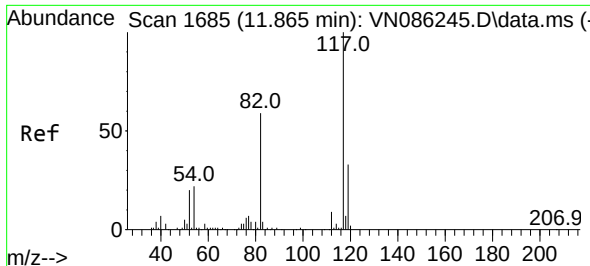
Tgt Ion: 63 Resp: 109257
Ion Ratio Lower Upper
63 100
65 32.1 25.8 38.8
106 26.4 21.8 32.8



#56
Bromoform
Concen: 94.994 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 173 Resp: 105955
Ion Ratio Lower Upper
173 100
175 48.9 38.2 57.4
254 5.0 4.5 6.7

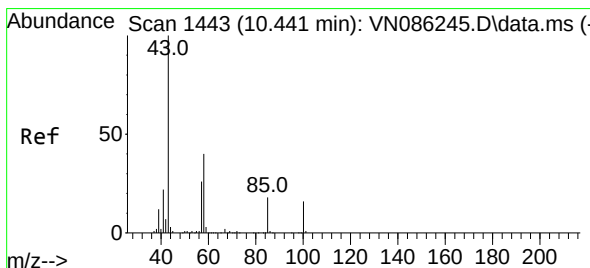
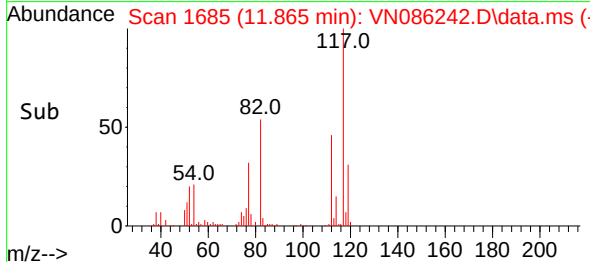
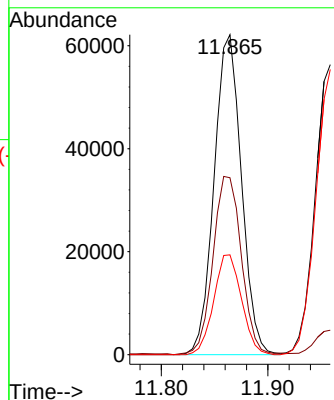
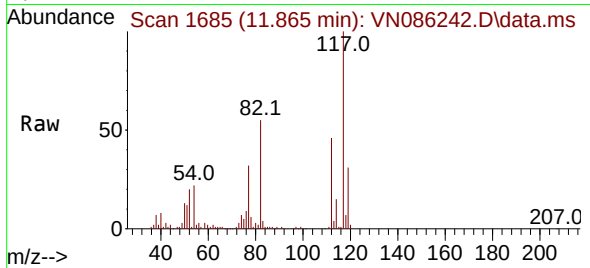




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 110874
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

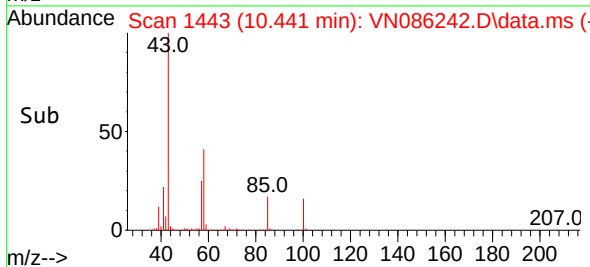
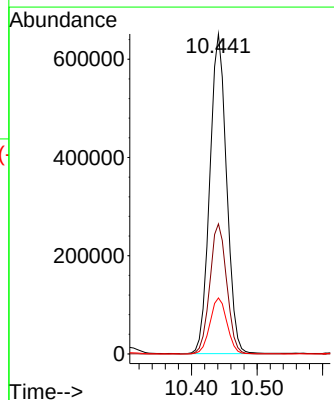
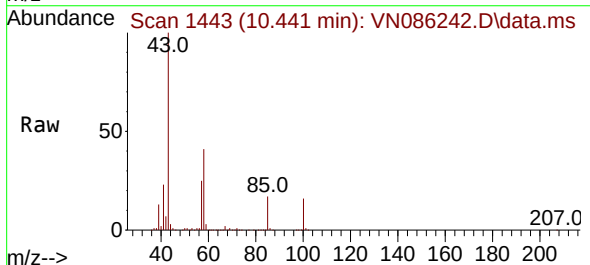
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

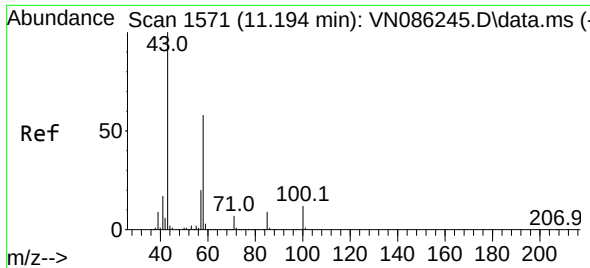
Tgt Ion:117 Resp: 110874
Ion Ratio Lower Upper
117 100
82 58.0 47.3 70.9
119 31.7 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 460.173 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 1157830
Ion Ratio Lower Upper
43 100
58 40.9 32.5 48.7
85 17.7 14.4 21.6

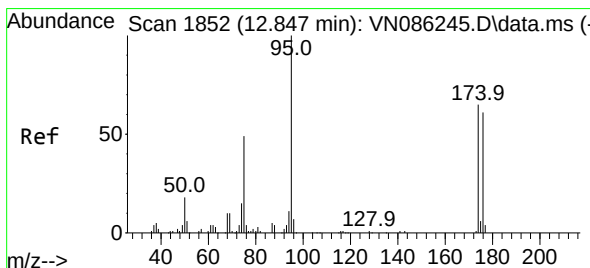
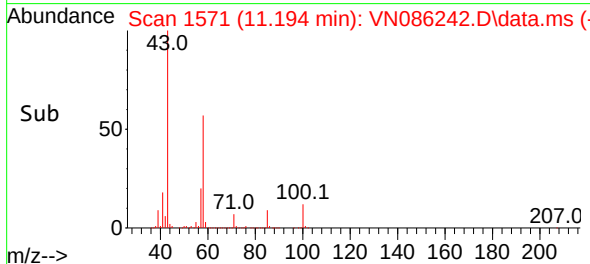
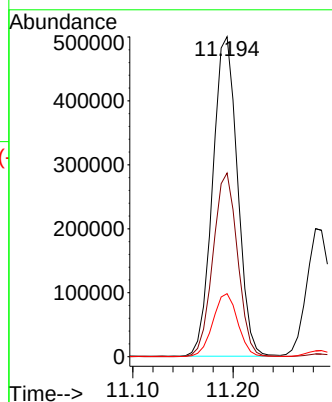
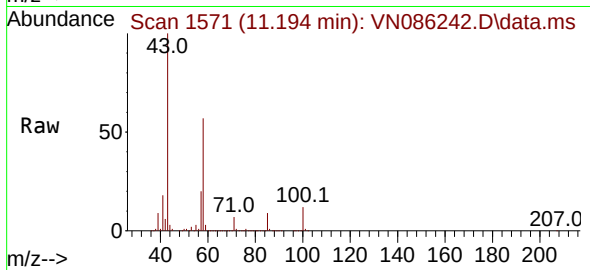




#59
2-Hexanone
Concen: 458.017 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

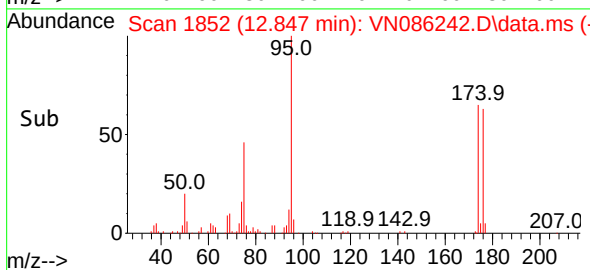
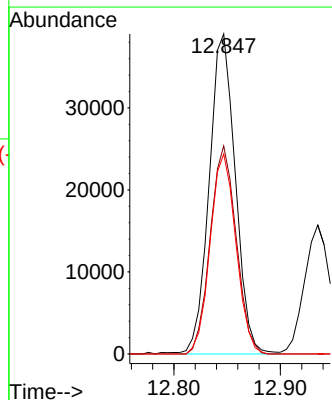
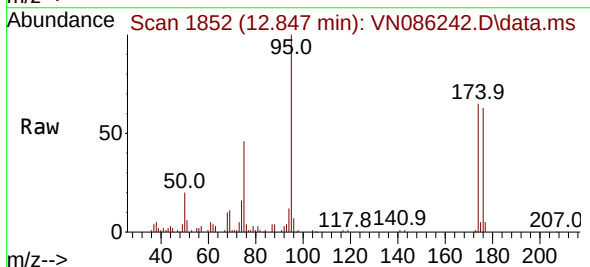
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

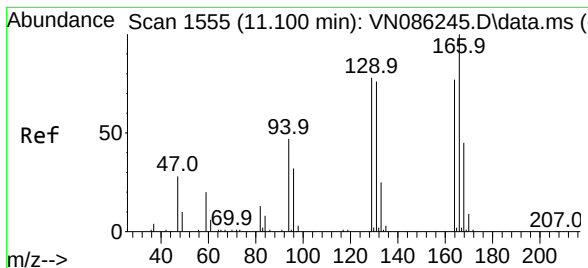
Tgt Ion: 43 Resp: 858112
Ion Ratio Lower Upper
43 100
58 57.0 45.3 67.9
57 19.7 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 30.135 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 95 Resp: 66521
Ion Ratio Lower Upper
95 100
174 64.5 52.7 79.1
176 61.5 49.8 74.8





#61

Tetrachloroethene

Concen: 97.556 ug/l

RT: 11.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:164 Resp: 159732

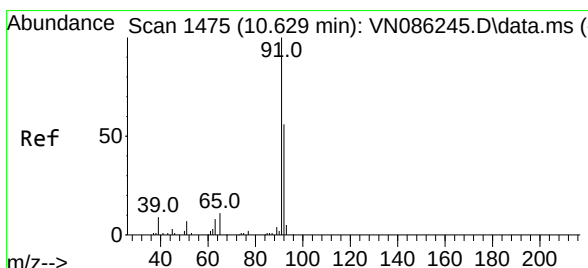
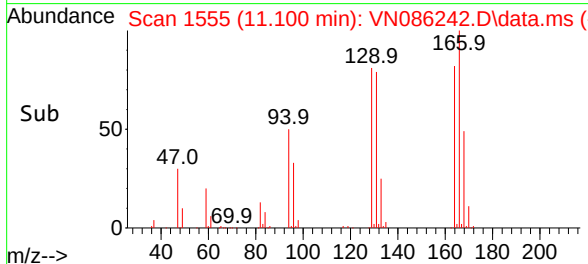
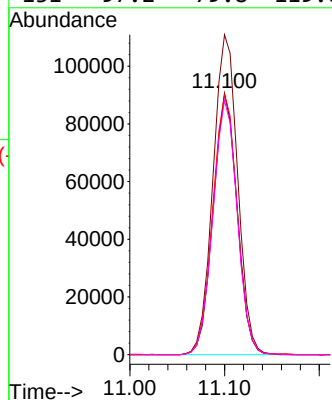
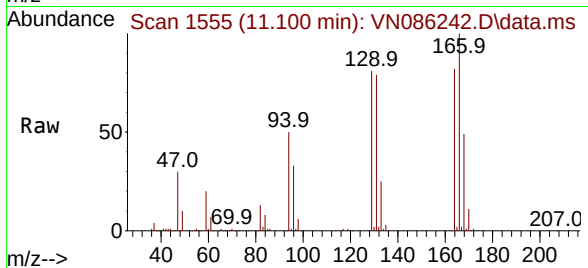
Ion Ratio Lower Upper

164 100

166 122.4 104.5 156.7

129 99.7 81.7 122.5

131 97.2 79.8 119.6



#62

Toluene

Concen: 94.810 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN086242.D

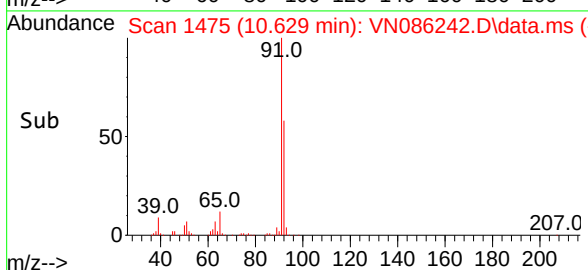
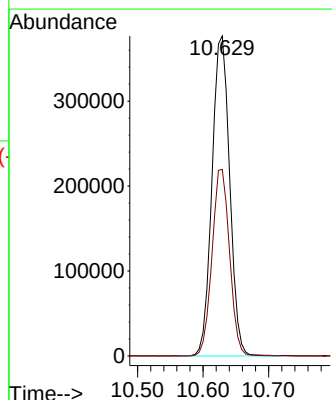
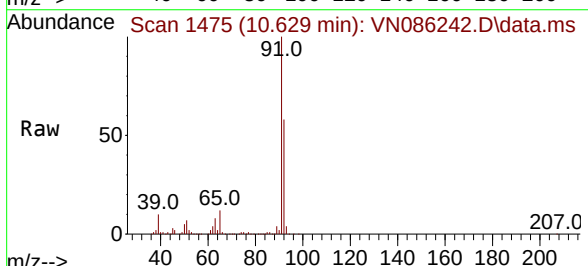
Acq: 11 Apr 2025 11:04

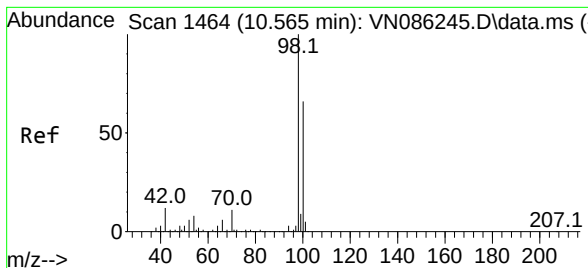
Tgt Ion: 91 Resp: 705070

Ion Ratio Lower Upper

91 100

92 57.9 46.8 70.2





#63

Toluene-d8

Concen: 29.627 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

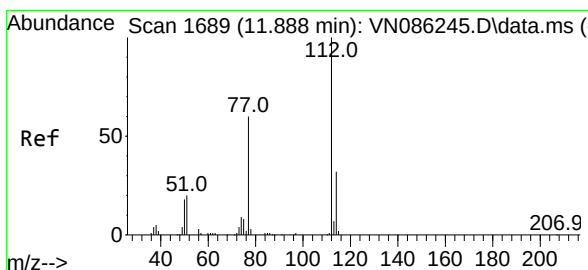
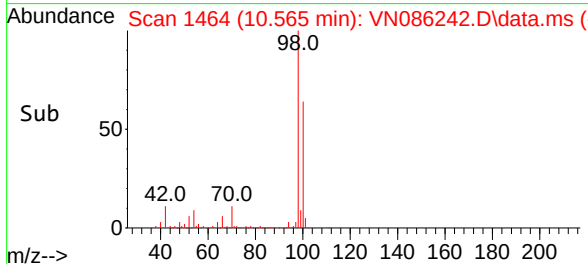
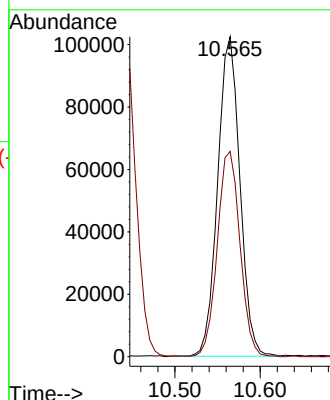
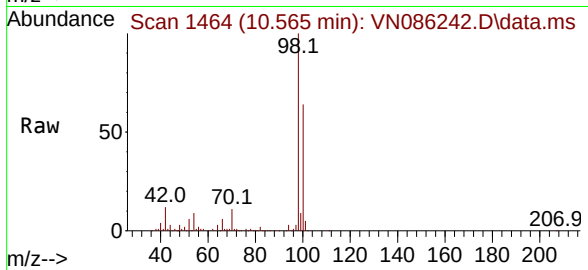
VSTDIC100

Tgt Ion: 98 Resp: 185448

Ion Ratio Lower Upper

98 100

100 65.6 52.3 78.5



#64

Chlorobenzene

Concen: 94.040 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN086242.D

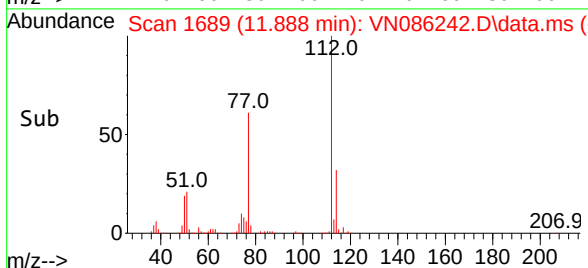
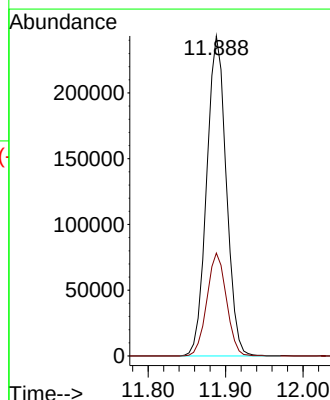
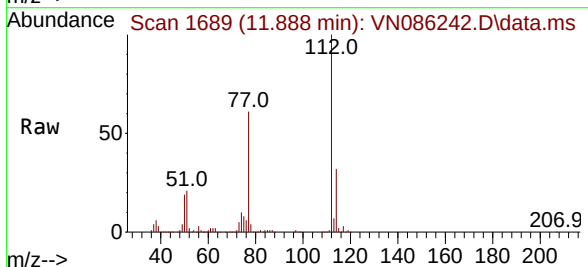
Acq: 11 Apr 2025 11:04

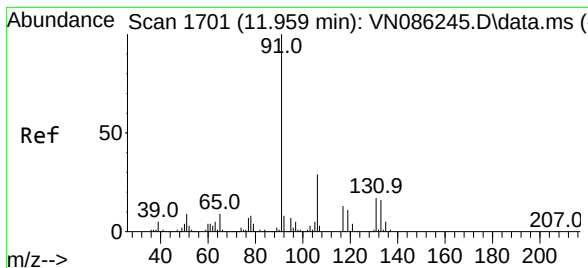
Tgt Ion: 112 Resp: 427265

Ion Ratio Lower Upper

112 100

114 32.2 25.8 38.6

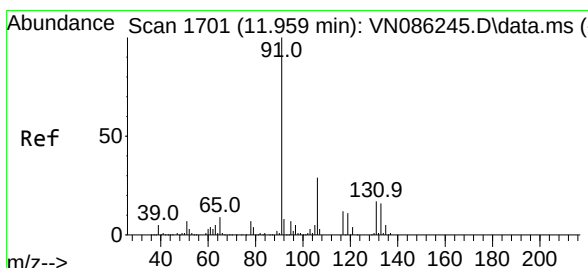
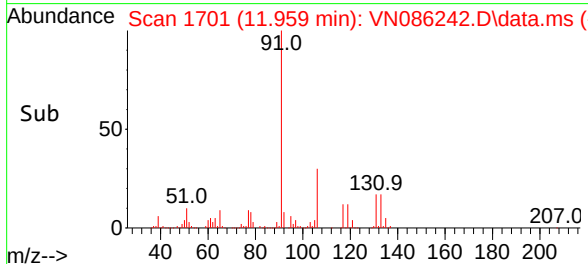
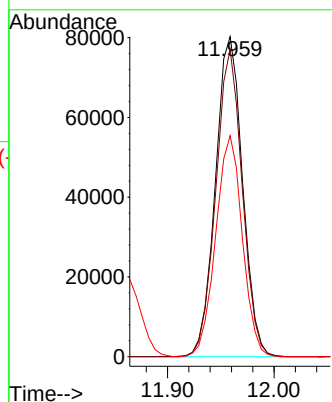
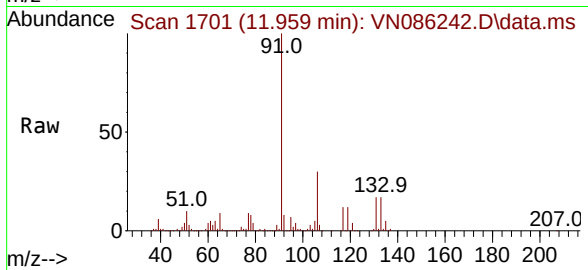




#65
1,1,1,2-Tetrachloroethane
Concen: 94.745 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

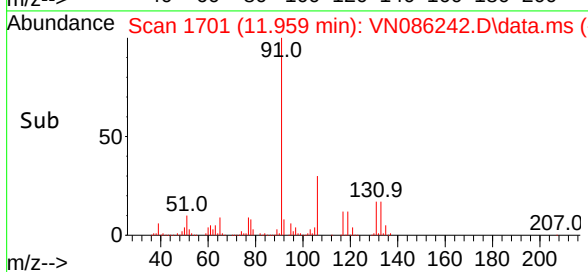
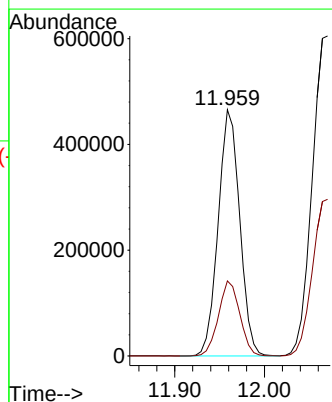
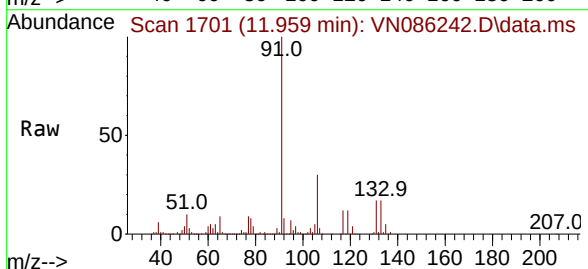
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

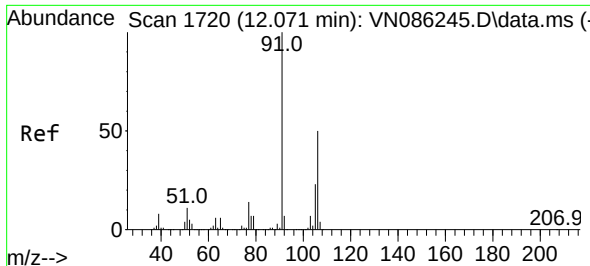
Tgt Ion:131 Resp: 142064
Ion Ratio Lower Upper
131 100
133 93.5 0.0 190.4
119 67.7 0.0 135.6



#66
Ethyl Benzene
Concen: 94.050 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 91 Resp: 775657
Ion Ratio Lower Upper
91 100
106 30.5 23.4 35.0

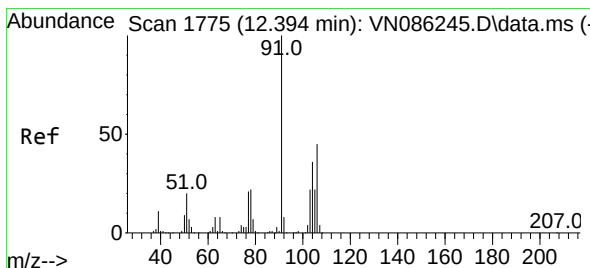
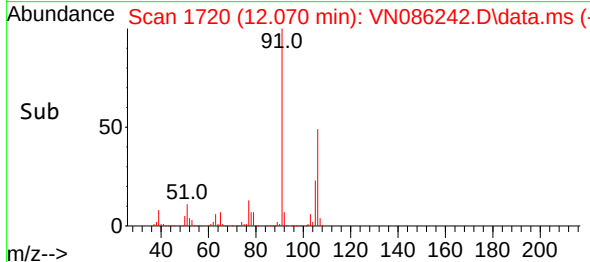
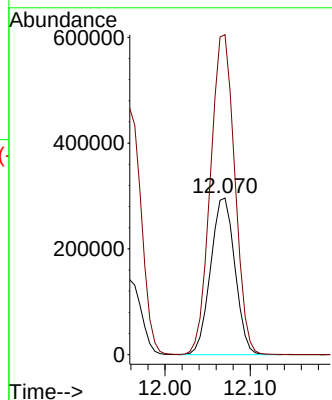
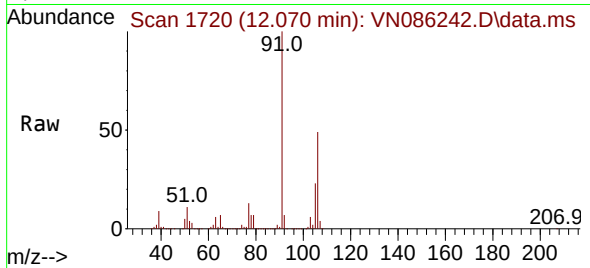




#67
m/p-Xylenes
Concen: 191.616 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

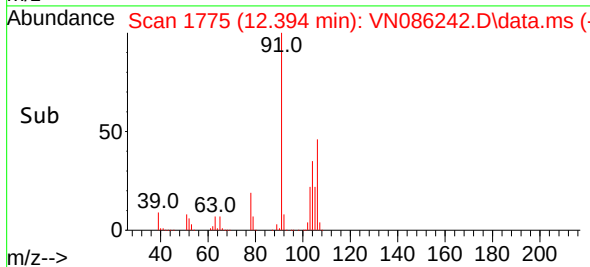
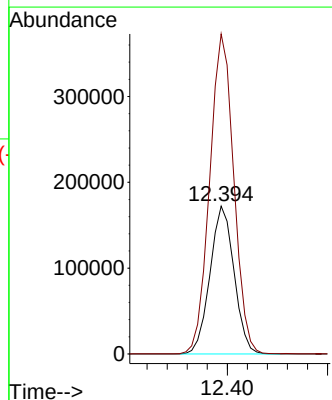
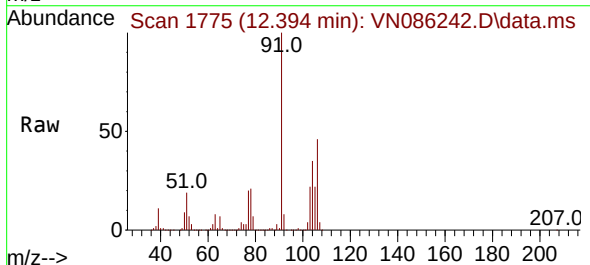
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

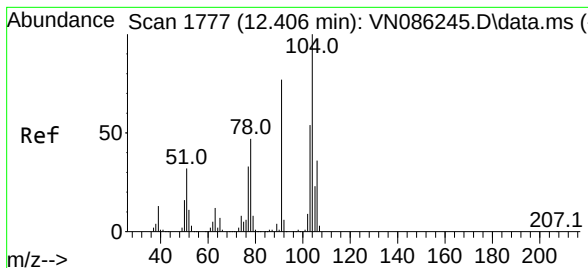
Tgt Ion:106 Resp: 587623
Ion Ratio Lower Upper
106 100
91 204.2 164.5 246.7



#68
o-Xylene
Concen: 95.205 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:106 Resp: 287174
Ion Ratio Lower Upper
106 100
91 216.6 109.8 329.4





#69

Styrene

Concen: 95.537 ug/l

RT: 12.406 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

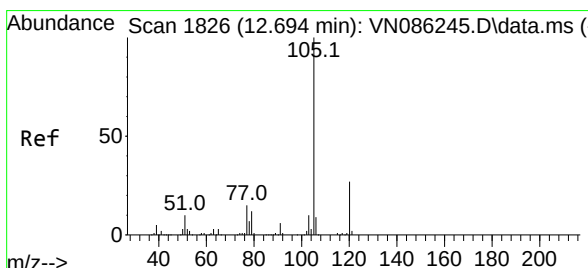
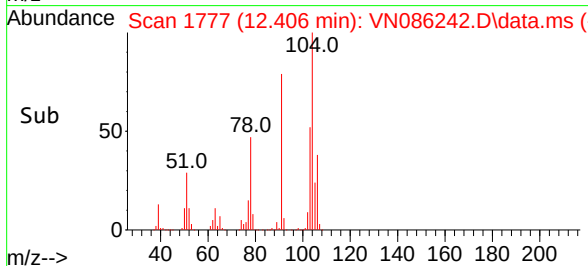
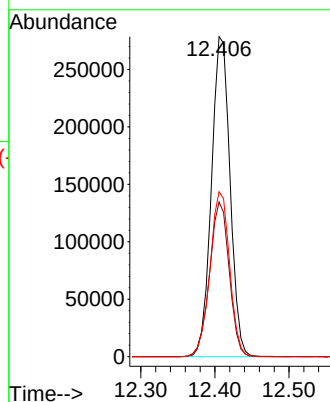
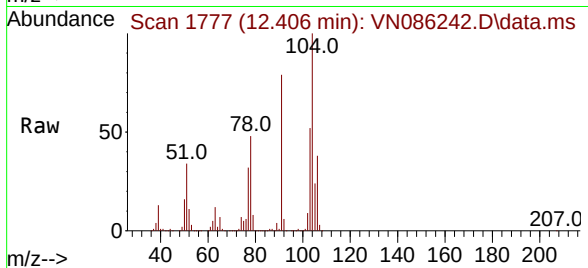
Tgt Ion:104 Resp: 486004

Ion Ratio Lower Upper

104 100

78 50.9 41.4 62.0

103 54.3 44.2 66.4



#70

Isopropylbenzene

Concen: 94.920 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086242.D

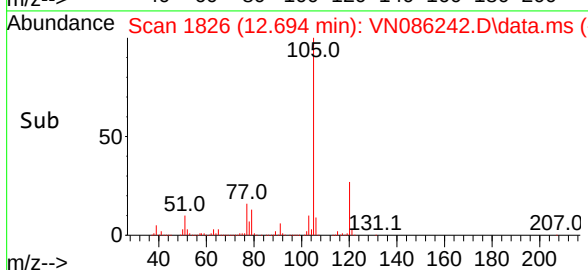
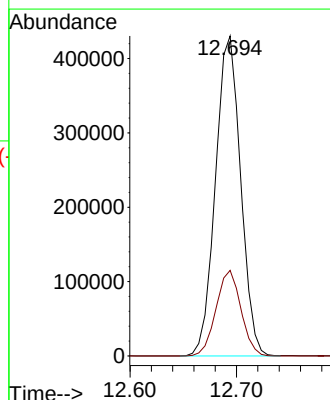
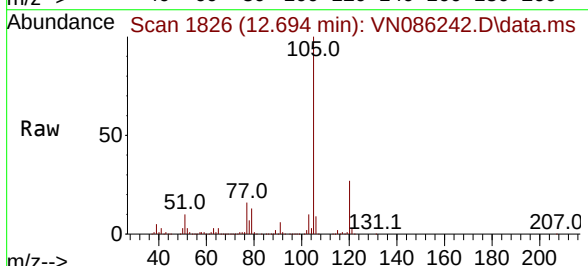
Acq: 11 Apr 2025 11:04

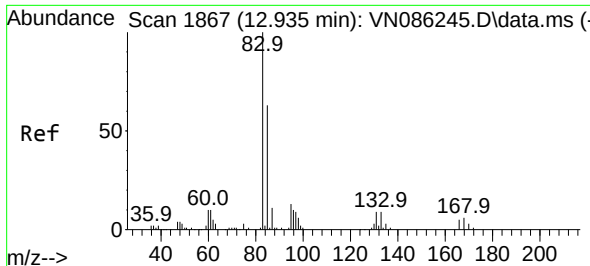
Tgt Ion:105 Resp: 705950

Ion Ratio Lower Upper

105 100

120 26.4 18.3 34.1

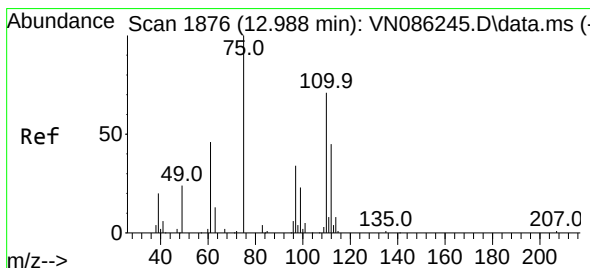
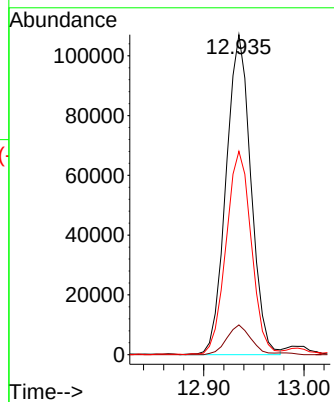
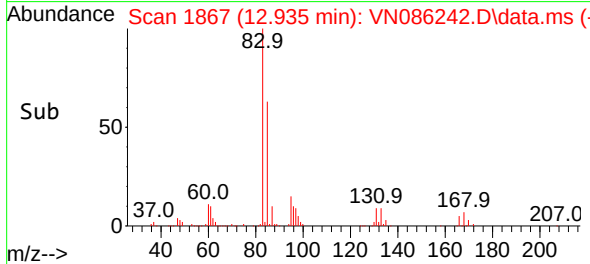
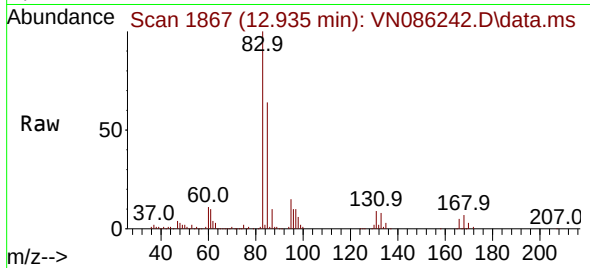




#71
1,1,2,2-Tetrachloroethane
Concen: 87.222 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

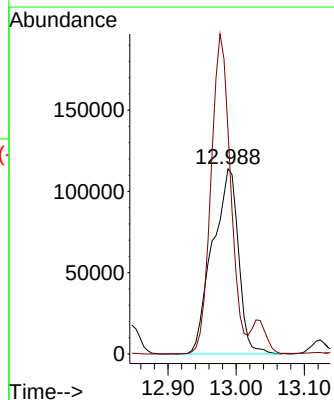
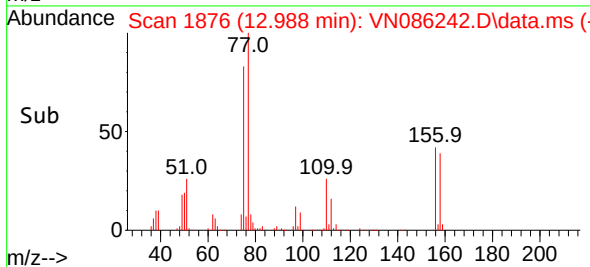
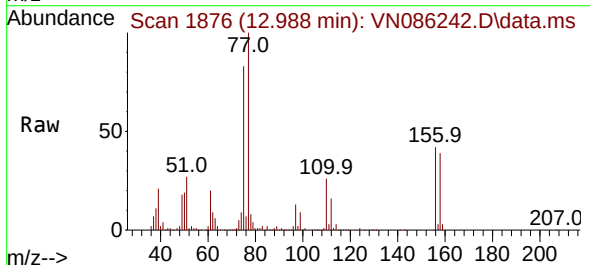
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

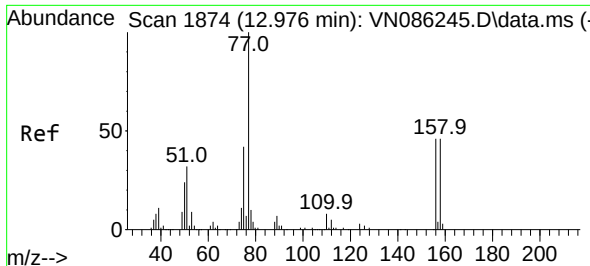
Tgt Ion: 83 Resp: 184643
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 64.2 32.3 96.8



#72
1,2,3-Trichloropropane
Concen: 100.449 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 75 Resp: 301047
Ion Ratio Lower Upper
75 100
77 130.7 0.0 380.0

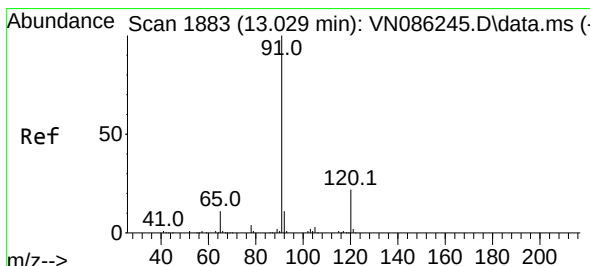
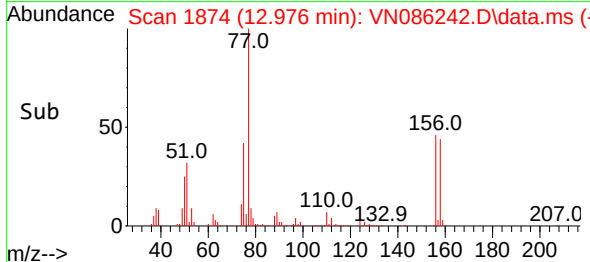
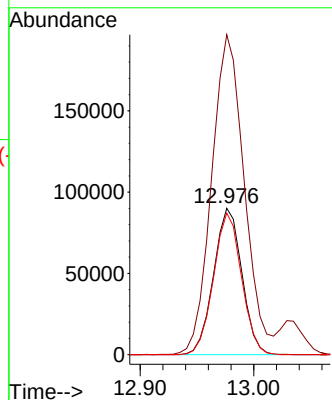
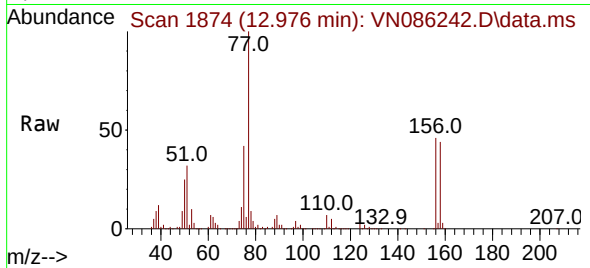




#73
Bromobenzene
Concen: 94.613 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

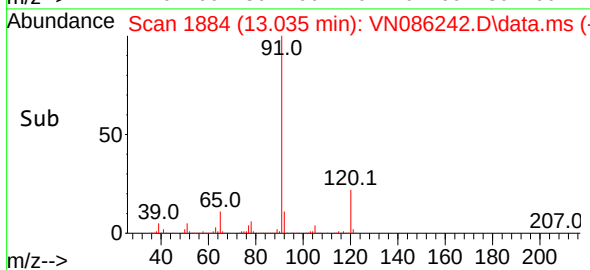
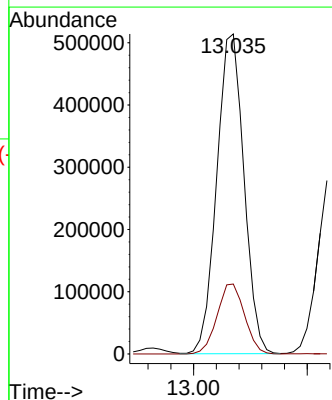
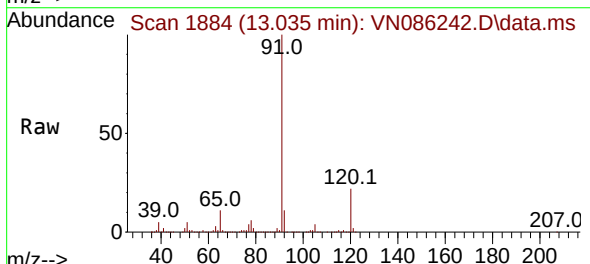
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

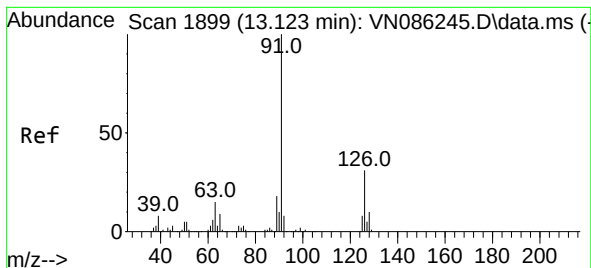
Tgt Ion:156 Resp: 155884
Ion Ratio Lower Upper
156 100
77 252.4 0.0 505.2
158 95.6 0.0 195.0



#74
n-propylbenzene
Concen: 96.989 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 91 Resp: 854262
Ion Ratio Lower Upper
91 100
120 22.0 0.0 44.0





#75

2-Chlorotoluene

Concen: 93.916 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

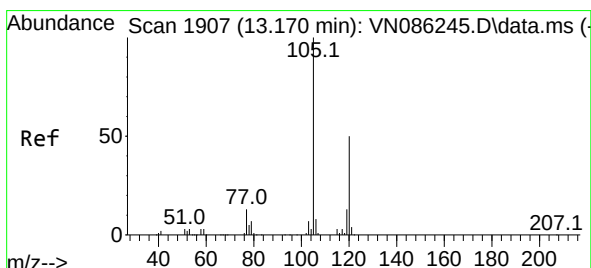
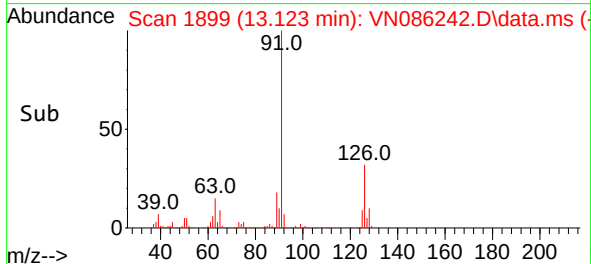
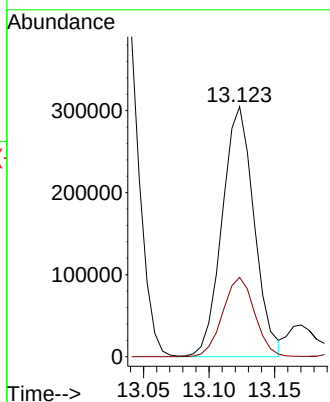
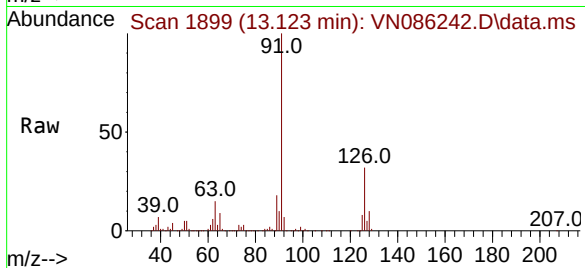
VSTDICC100

Tgt Ion: 91 Resp: 518416

Ion Ratio Lower Upper

91 100

126 31.6 0.0 63.4



#76

1,3,5-Trimethylbenzene

Concen: 95.970 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086242.D

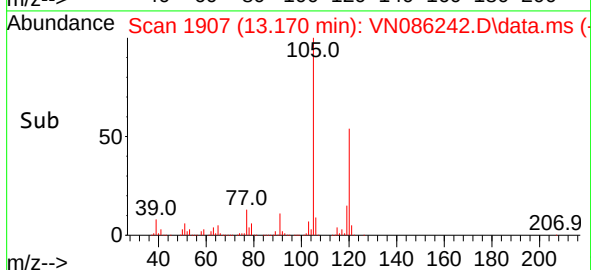
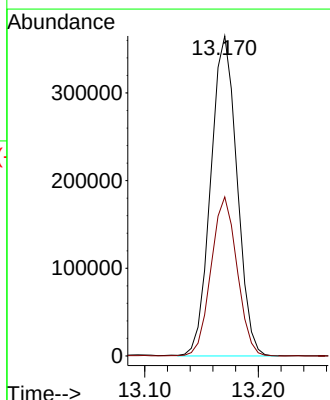
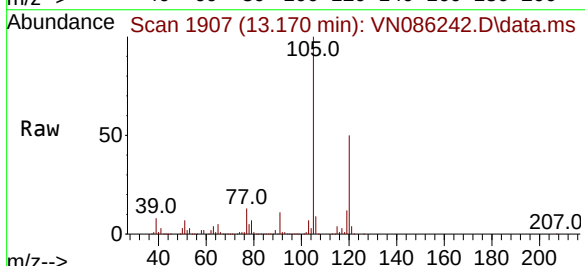
Acq: 11 Apr 2025 11:04

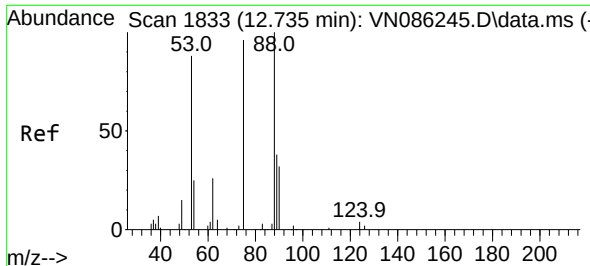
Tgt Ion: 105 Resp: 586325

Ion Ratio Lower Upper

105 100

120 49.1 0.0 98.0

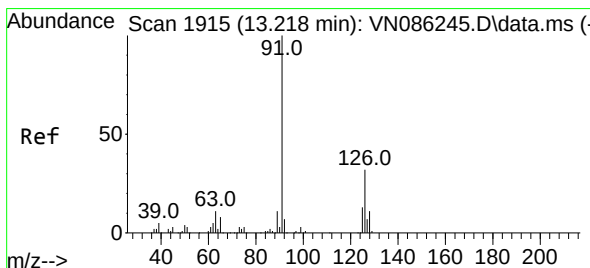
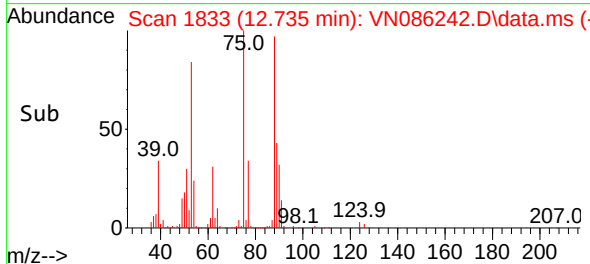
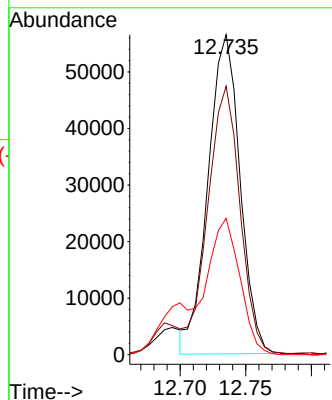
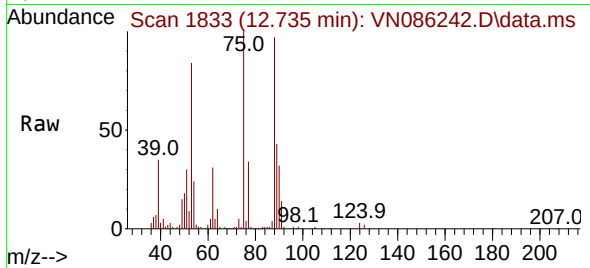




#77
t-1,4-Dichloro-2-butene
Concen: 94.184 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

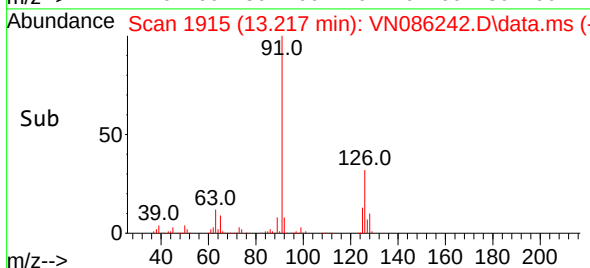
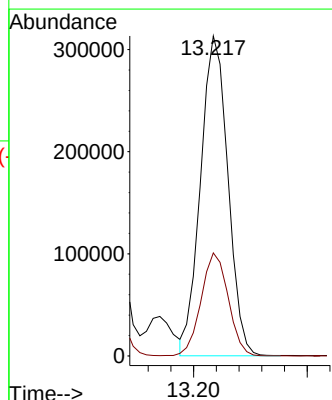
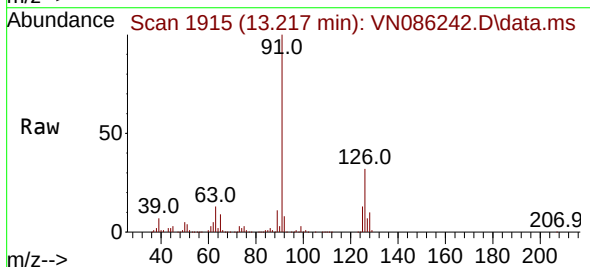
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

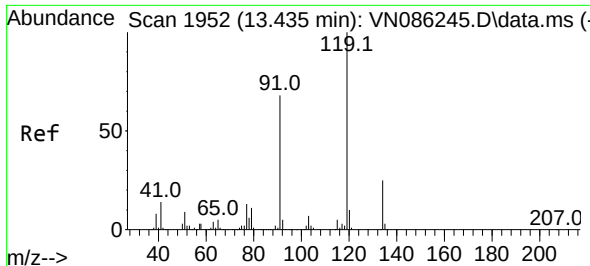
Tgt Ion: 75 Resp: 95696
Ion Ratio Lower Upper
75 100
53 83.6 46.4 139.2
89 42.8 22.5 67.5



#78
4-Chlorotoluene
Concen: 95.194 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 91 Resp: 524792
Ion Ratio Lower Upper
91 100
126 32.0 0.0 63.2

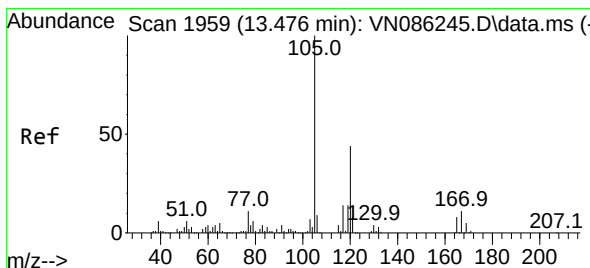
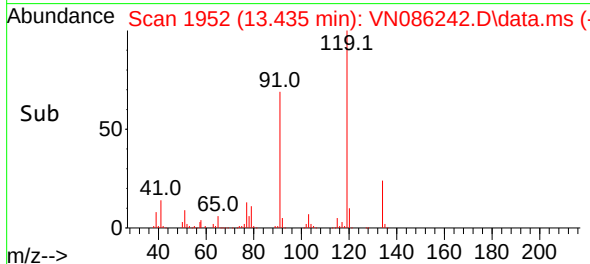
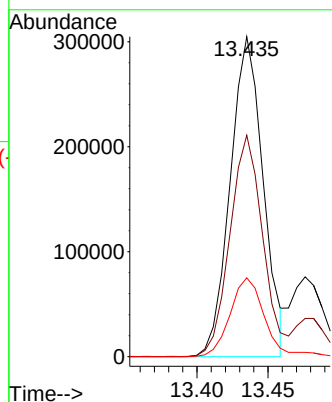
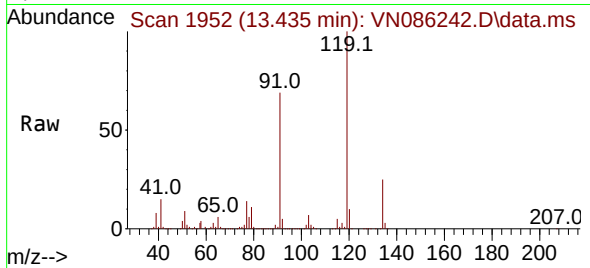




#79
tert-butylbenzene
Concen: 93.090 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

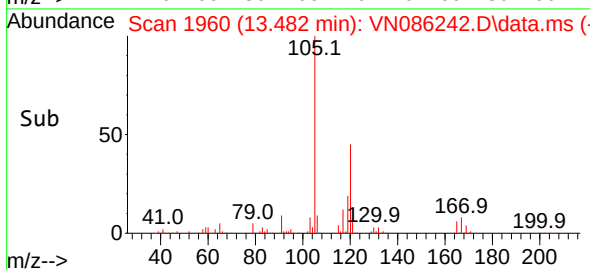
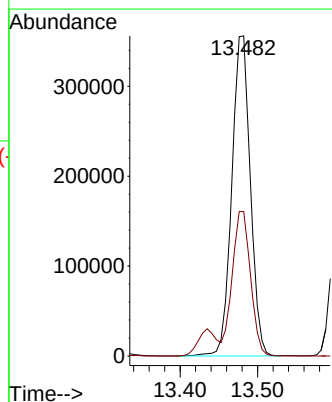
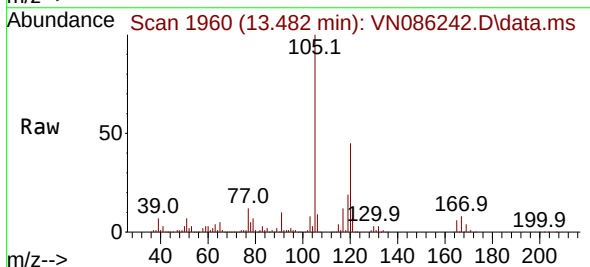
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

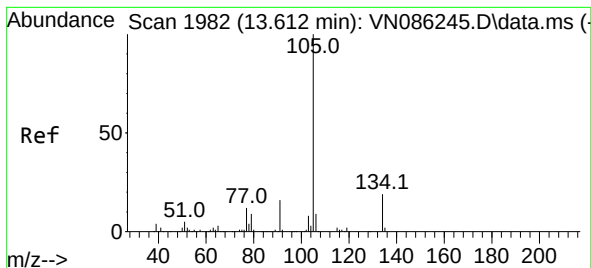
Tgt Ion:119 Resp: 492114
Ion Ratio Lower Upper
119 100
91 69.3 0.0 136.6
134 24.8 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 95.880 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:105 Resp: 593988
Ion Ratio Lower Upper
105 100
120 44.6 0.0 91.0





#81

sec-Butylbenzene

Concen: 96.423 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

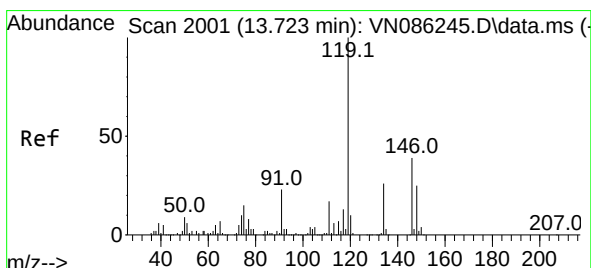
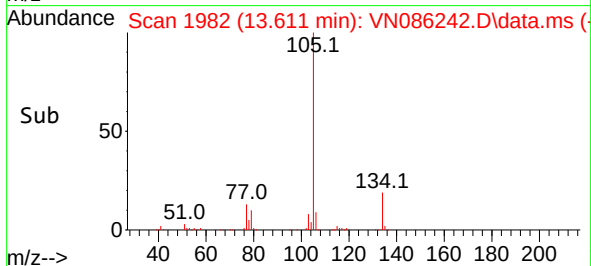
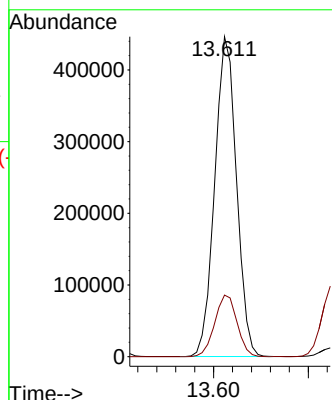
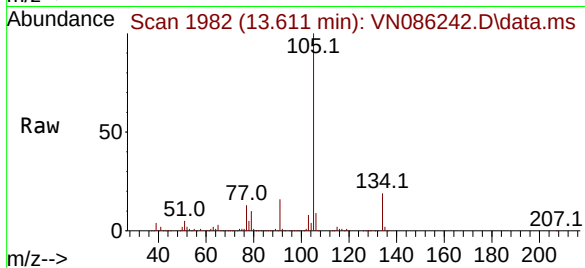
VSTDIC100

Tgt Ion:105 Resp: 711037

Ion Ratio Lower Upper

105 100

134 19.8 0.0 38.6



#82

p-Isopropyltoluene

Concen: 97.402 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

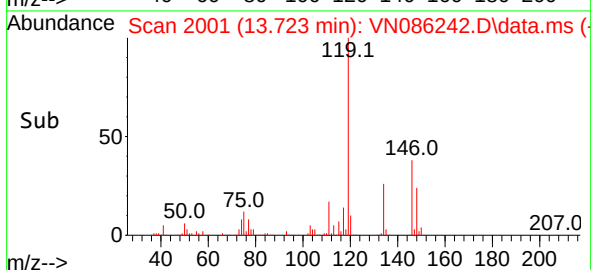
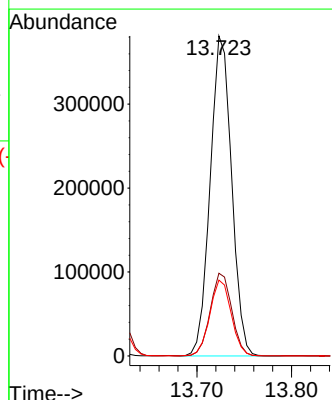
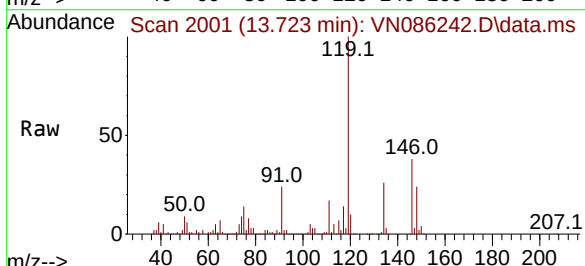
Tgt Ion:119 Resp: 599176

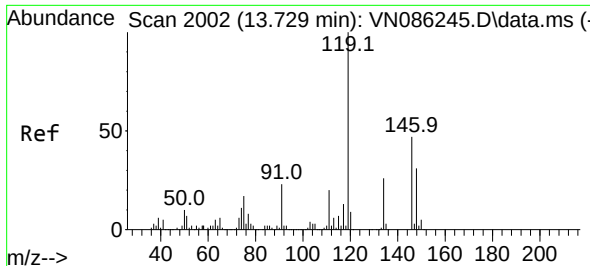
Ion Ratio Lower Upper

119 100

134 25.9 0.0 51.6

91 23.6 0.0 48.2

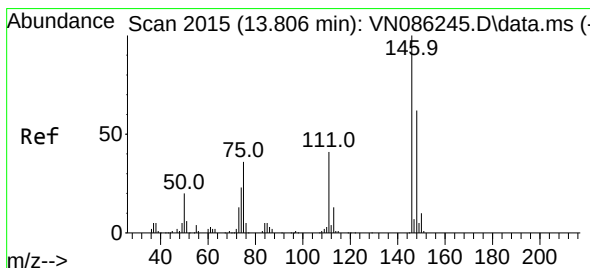
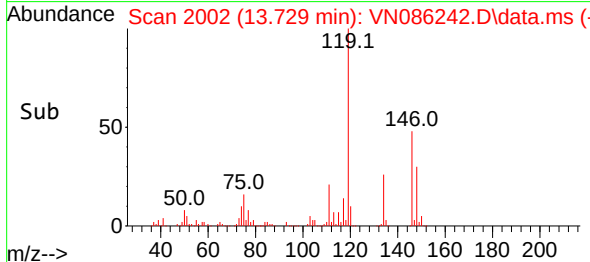
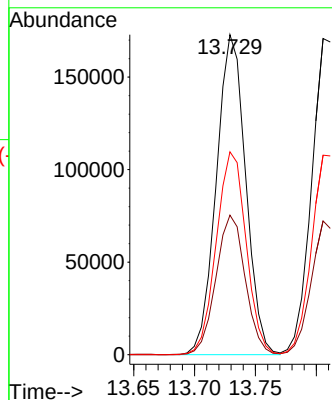
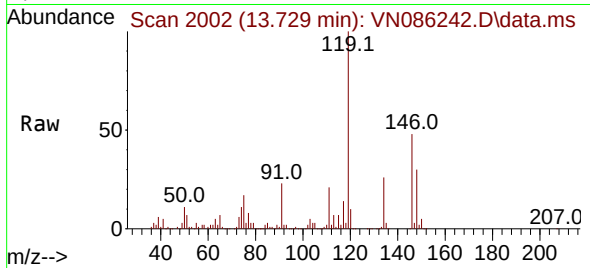




#83
1,3-Dichlorobenzene
Concen: 94.739 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

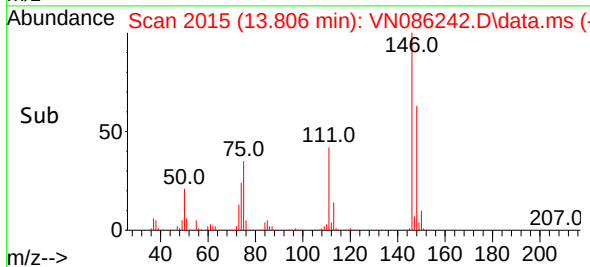
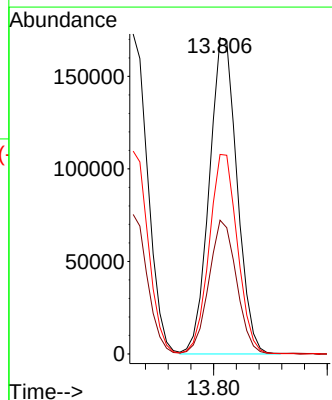
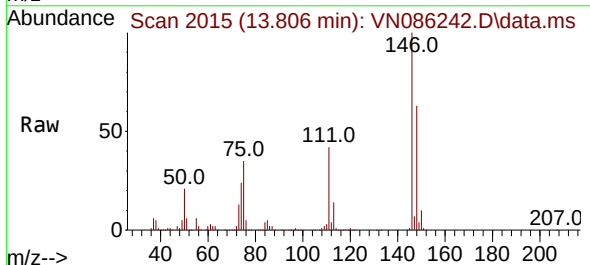
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

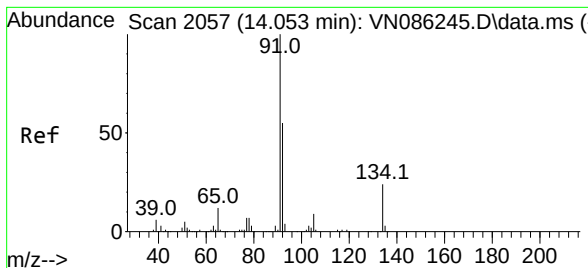
Tgt Ion:146 Resp: 290118
Ion Ratio Lower Upper
146 100
111 43.7 21.7 65.1
148 64.4 32.3 96.8



#84
1,4-Dichlorobenzene
Concen: 94.482 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:146 Resp: 290254
Ion Ratio Lower Upper
146 100
111 42.1 20.8 62.4
148 63.8 31.9 95.5





#85

n-Butylbenzene

Concen: 99.247 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

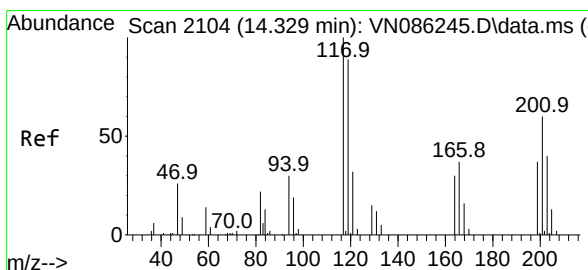
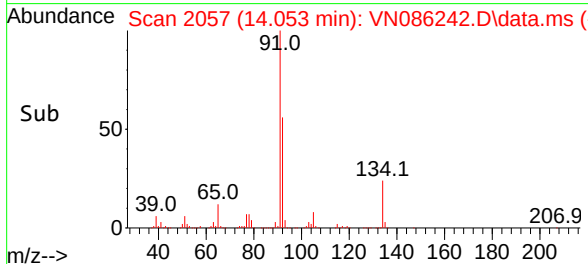
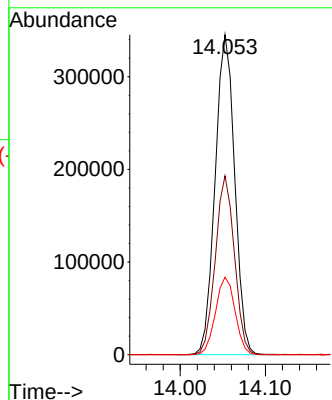
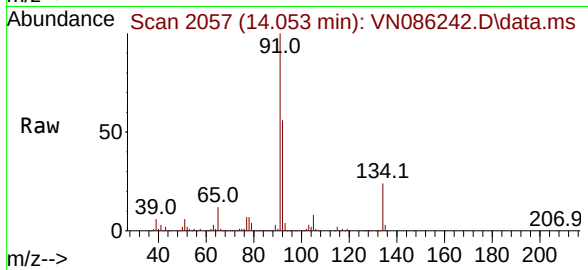
Tgt Ion: 91 Resp: 550772

Ion Ratio Lower Upper

91 100

92 54.5 0.0 109.4

134 24.2 0.0 48.2



#86

Hexachloroethane

Concen: 97.469 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086242.D

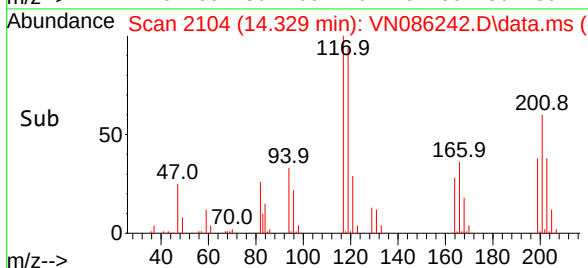
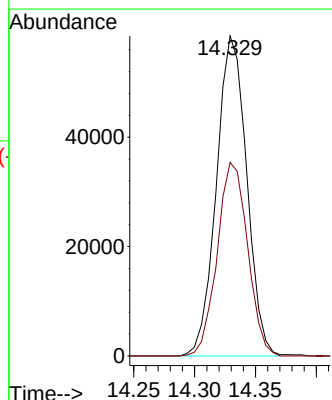
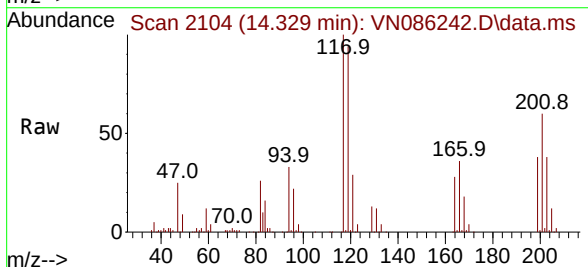
Acq: 11 Apr 2025 11:04

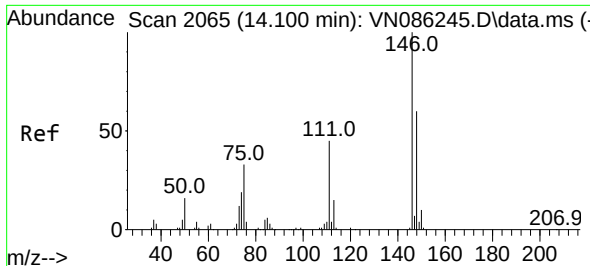
Tgt Ion: 117 Resp: 101143

Ion Ratio Lower Upper

117 100

201 60.7 30.9 92.8

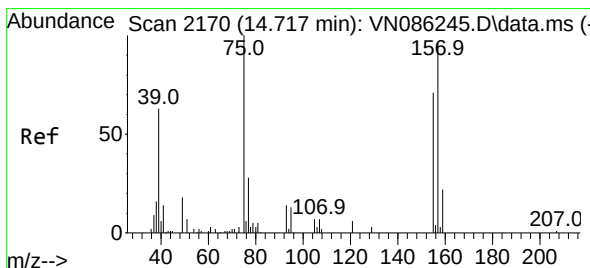
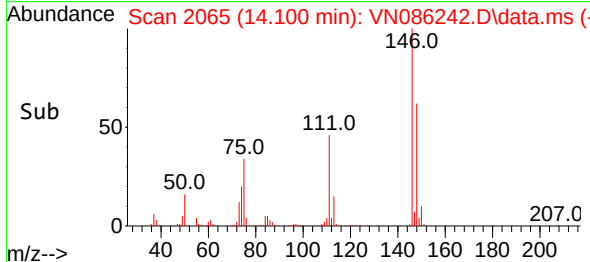
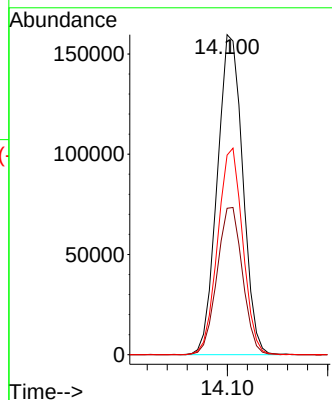
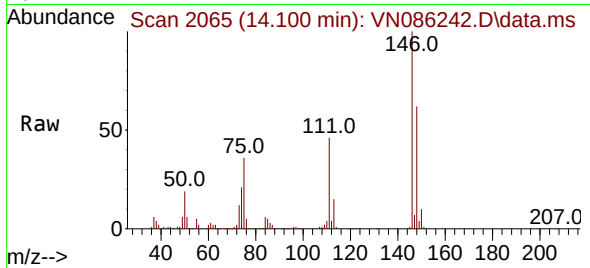




#87
1,2-Dichlorobenzene
Concen: 93.023 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

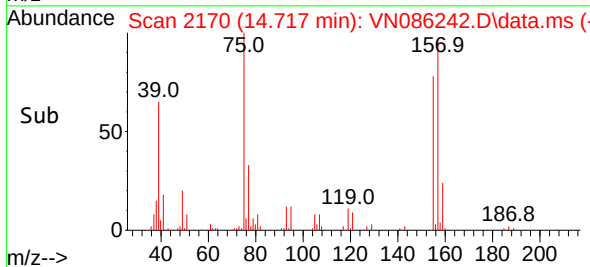
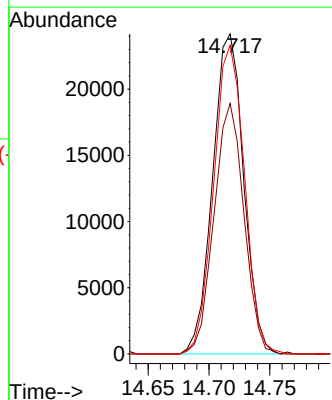
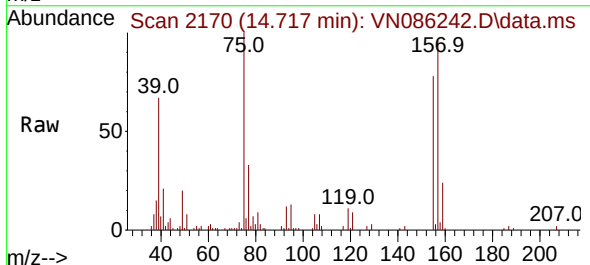
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

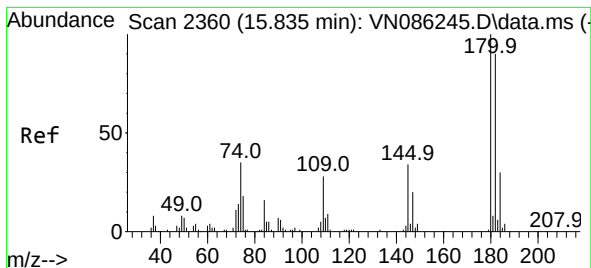
Tgt Ion:146 Resp: 281264
Ion Ratio Lower Upper
146 100
111 45.9 22.7 68.0
148 63.4 31.8 95.3



#88
1,2-Dibromo-3-Chloropropane
Concen: 88.876 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 75 Resp: 42853
Ion Ratio Lower Upper
75 100
155 75.5 60.3 90.5
157 95.8 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 93.313 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

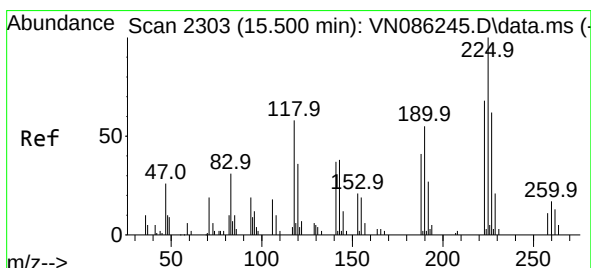
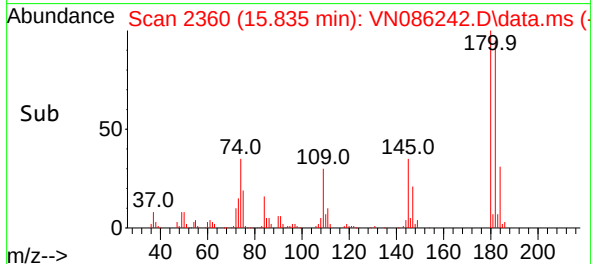
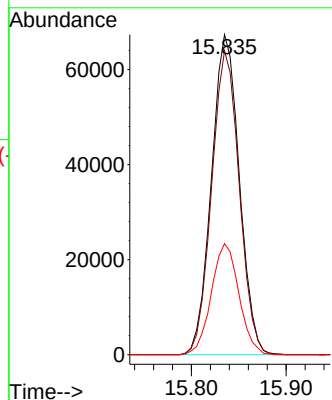
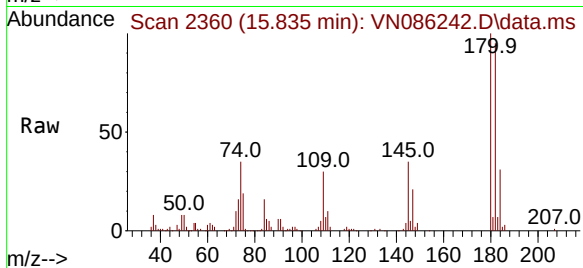
Tgt Ion:180 Resp: 137279

Ion Ratio Lower Upper

180 100

182 94.1 75.1 112.7

145 34.5 27.1 40.7



#90

Hexachlorobutadiene

Concen: 87.904 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

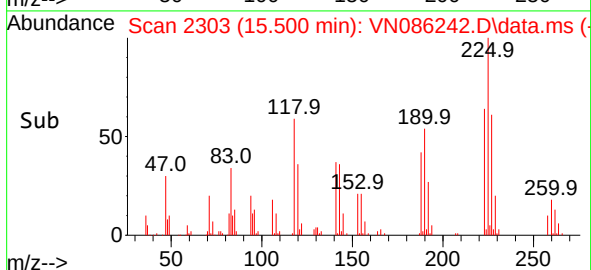
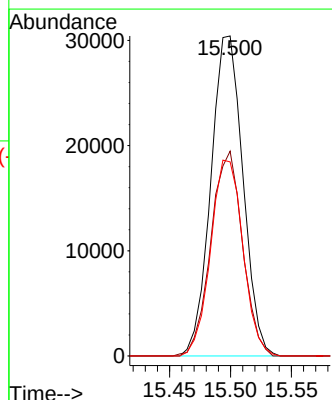
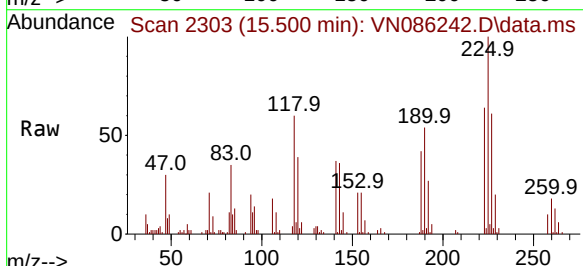
Tgt Ion:225 Resp: 55837

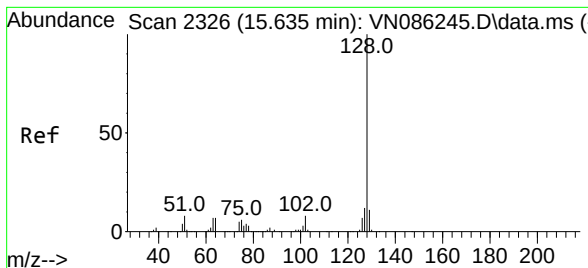
Ion Ratio Lower Upper

225 100

223 63.1 0.0 130.0

227 61.5 0.0 123.2





#91

Naphthalene

Concen: 88.964 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

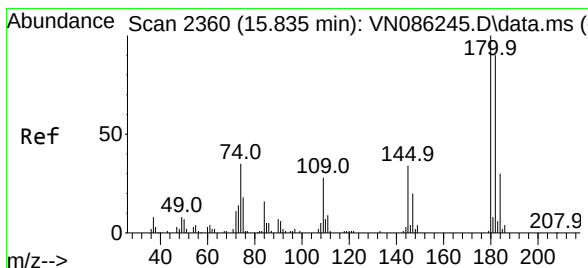
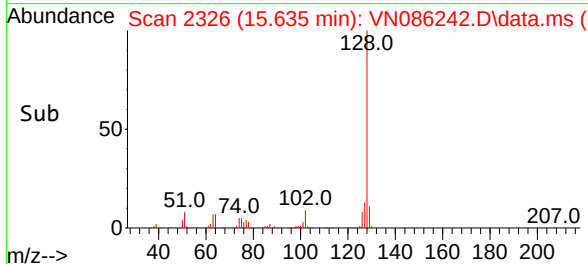
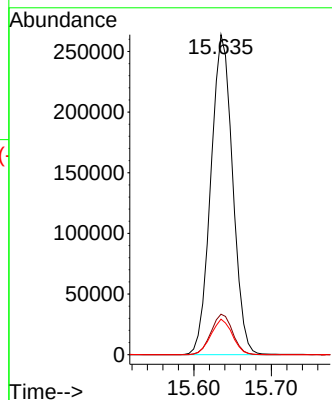
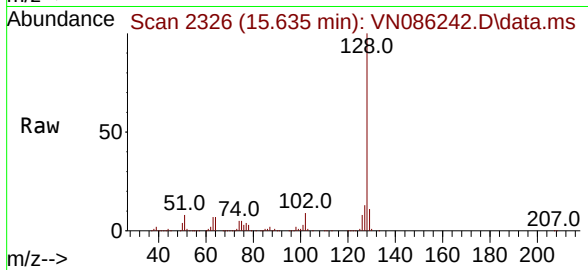
Tgt Ion:128 Resp: 516032

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

129 10.9 8.8 13.2



#92

1,2,3-Trichlorobenzene

Concen: 93.313 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

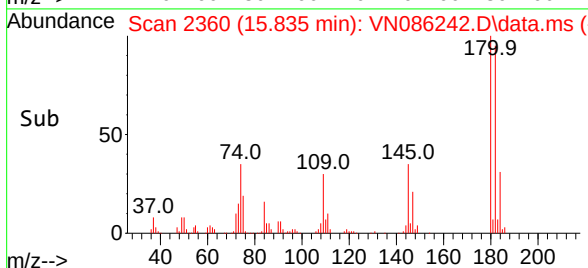
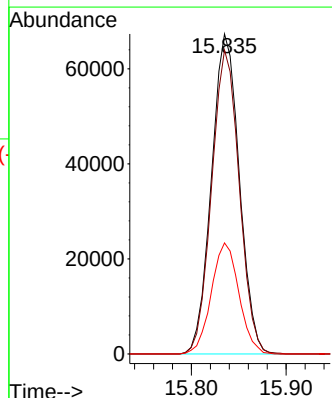
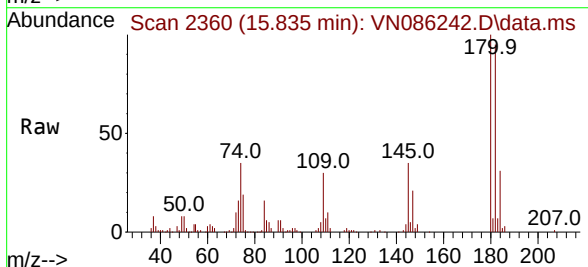
Tgt Ion:180 Resp: 137279

Ion Ratio Lower Upper

180 100

182 94.1 0.0 187.8

145 34.5 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 12 00:19:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212849	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191848	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	101225	29.892	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.633%
60) 4-Bromofluorobenzene	12.847	95	116379	30.469	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.567%
63) Toluene-d8	10.565	98	321243	29.660	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.867%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	159577	57.365	ug/l	99
3) Chloromethane	2.359	50	209307	54.440	ug/l	98
4) Vinyl Chloride	2.512	62	204553	55.856	ug/l	98
5) Bromomethane	2.953	94	94764	51.877	ug/l	93
6) Chloroethane	3.118	64	126545	54.720	ug/l	98
7) Trichlorofluoromethane	3.495	101	224704	56.563	ug/l	99
8) Diethyl Ether	3.959	74	100444	54.826	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	137760	56.236	ug/l	97
10) 1,1-Dichloroethene	4.342	96	142552	53.920	ug/l	95
11) Methyl Iodide	4.583	142	172223	56.678	ug/l	98
12) Methyl Acetate	5.024	43	216174	57.904	ug/l	98
13) Acrolein	4.177	56	95048	223.977	ug/l	99
14) Acrylonitrile	5.712	53	435610	276.391	ug/l	98
15) Acetone	4.424	58	112588	281.504	ug/l	93
16) Carbon Disulfide	4.712	76	388287	51.220	ug/l	99
17) Allyl chloride	5.018	41	250898	54.451	ug/l	99
18) Methylene Chloride	5.277	84	160052	53.099	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	147953	62.042	ug/l	98
20) Diisopropyl ether	6.671	45	559920	56.516	ug/l	97
21) 1,1-Dichloroethane	6.571	63	294059	55.639	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	179457	54.098	ug/l	97
23) tert-Butyl Alcohol	5.512	59	185093	283.431	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	526838	55.313	ug/l	98
25) Chloroform	7.965	83	279630	55.484	ug/l	96
26) Cyclohexane	8.253	56	278241	56.272	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	210025	55.081	ug/l	99
30) 2-Butanone	7.477	43	596520	282.334	ug/l	99
31) 2,2-Dichloropropane	7.488	77	260037	55.404	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	240887	54.920	ug/l	99
33) Carbon Tetrachloride	8.359	117	199323	56.865	ug/l	97
34) Benzene	8.606	78	666877	54.974	ug/l	98
35) Methacrylonitrile	7.777	41	129688	54.448	ug/l	99
36) 1,2-Dichloroethane	8.665	62	209738	55.252	ug/l	97
37) Trichloroethene	9.347	130	164224	56.109	ug/l	90
38) Methylcyclohexane	9.600	83	253415	54.191	ug/l	99
39) 1,2-Dichloropropane	9.618	63	168378	55.783	ug/l	98
40) Dibromomethane	9.706	93	106697	54.730	ug/l	99
41) Bromodichloromethane	9.888	83	225600	53.865	ug/l	97
42) Vinyl Acetate	6.600	43	1937093	269.341	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

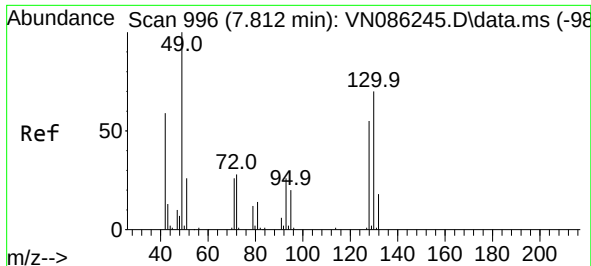
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	233433	54.775	ug/l	98
44) Isopropyl Acetate	8.682	43	419280	53.034	ug/l	99
45) 1,4-Dioxane	9.688	88	71351	1134.960	ug/l #	95
46) Methyl methacrylate	9.676	41	197782	56.778	ug/l	99
47) n-amyl Acetate	12.488	43	354004	55.417	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	264279	55.817	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	277506	55.377	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	149001	54.493	ug/l	98
51) Ethyl methacrylate	10.871	69	283112	55.717	ug/l	96
52) 1,3-Dichloropropane	11.159	76	271010	55.609	ug/l	100
53) Dibromochloromethane	11.359	129	166341	55.616	ug/l	99
54) 1,2-Dibromoethane	11.465	107	152197	55.141	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	685916	357.238	ug/l	99
56) Bromoform	12.576	173	110623	56.534	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	1212140	278.421	ug/l	99
59) 2-Hexanone	11.194	43	912206	281.386	ug/l	99
61) Tetrachloroethene	11.100	164	160227	56.555	ug/l	98
62) Toluene	10.629	91	709533	55.140	ug/l	100
64) Chlorobenzene	11.888	112	434051	55.211	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	145468	56.068	ug/l	99
66) Ethyl Benzene	11.959	91	797966	55.917	ug/l	97
67) m/p-Xylenes	12.070	106	600484	113.164	ug/l	100
68) o-Xylene	12.394	106	294512	56.428	ug/l	99
69) Styrene	12.406	104	499886	56.790	ug/l	99
70) Isopropylbenzene	12.694	105	727241	56.511	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	194327	53.052	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	316585	61.048	ug/l	59
73) Bromobenzene	12.976	156	161325	56.588	ug/l	99
74) n-propylbenzene	13.035	91	865912	56.817	ug/l	100
75) 2-Chlorotoluene	13.123	91	539350	56.468	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	596201	56.398	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	100158	56.970	ug/l	92
78) 4-Chlorotoluene	13.217	91	541691	56.787	ug/l	100
79) tert-butylbenzene	13.435	119	506518	55.374	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	611389	57.035	ug/l	99
81) sec-Butylbenzene	13.612	105	714247	55.977	ug/l	99
82) p-Isopropyltoluene	13.723	119	604494	56.791	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	306241	57.795	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	303615	57.117	ug/l	100
85) n-Butylbenzene	14.053	91	536941	55.917	ug/l	99
86) Hexachloroethane	14.329	117	102084	56.854	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	301390	57.607	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	47464	56.890	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98
90) Hexachlorobutadiene	15.500	225	56236	51.165	ug/l	99
91) Naphthalene	15.635	128	561578	55.953	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98

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

Quant Time: Apr 12 00:19:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 00:09:06 2025
Response via : Initial Calibration

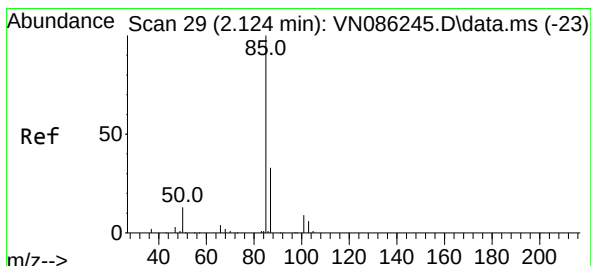
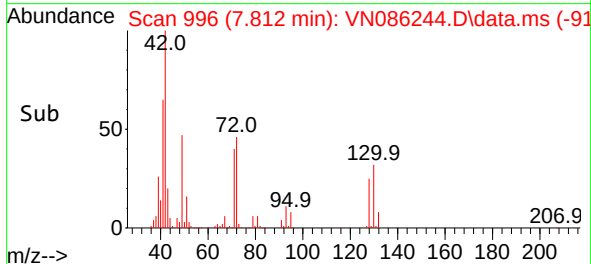
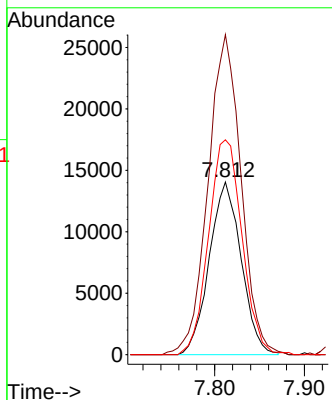
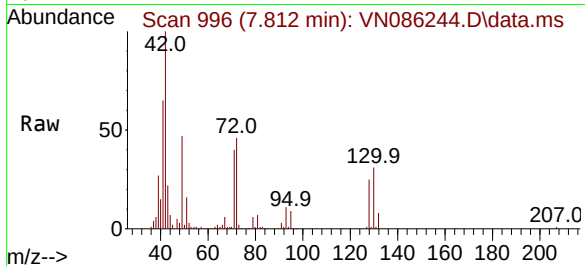




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

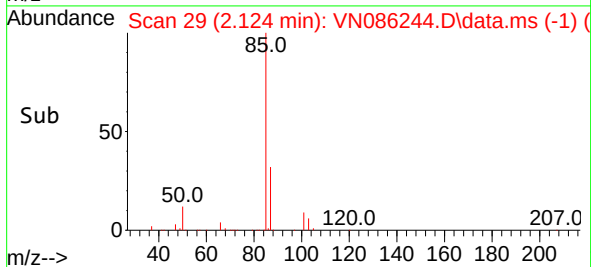
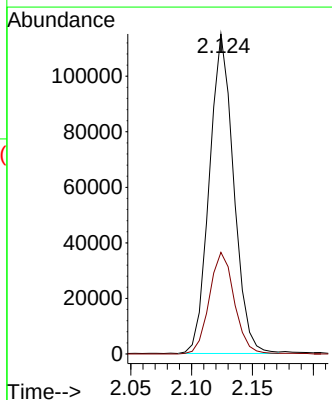
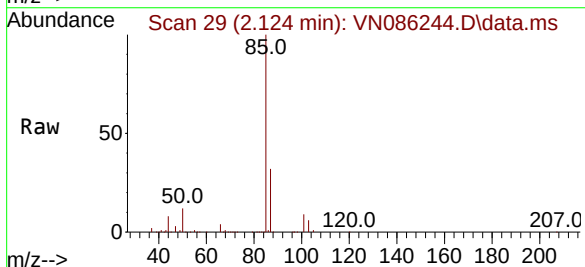
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

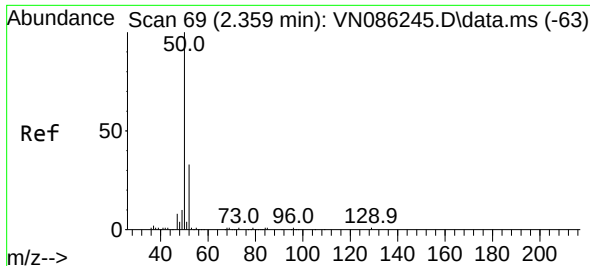
Tgt Ion:128 Resp: 34719
Ion Ratio Lower Upper
128 100
49 191.4 0.0 452.5
130 130.4 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 57.365 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 85 Resp: 159577
Ion Ratio Lower Upper
85 100
87 31.8 16.3 48.9

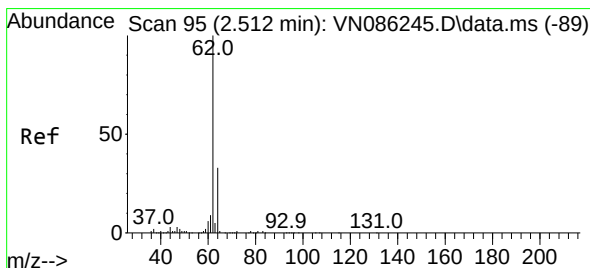
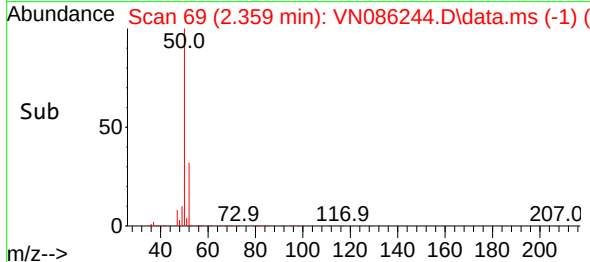
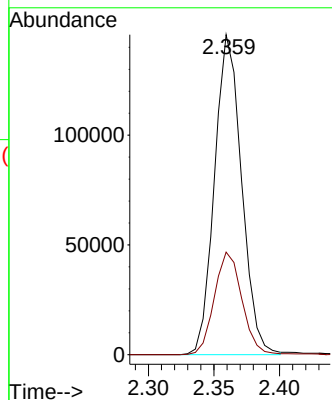
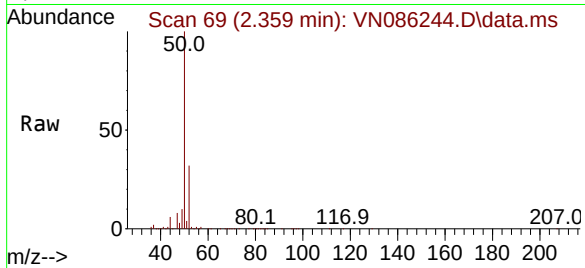




#3
Chloromethane
Concen: 54.440 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

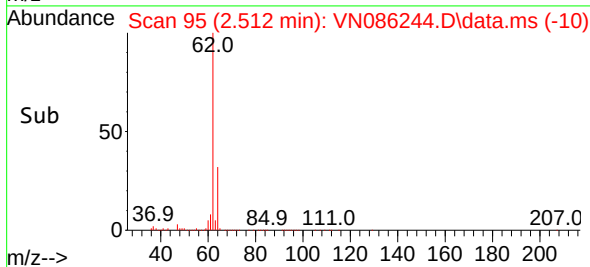
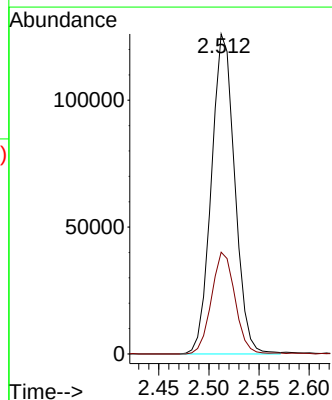
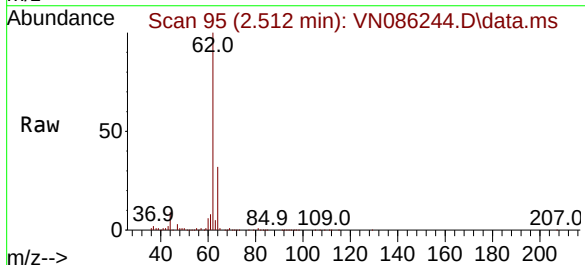
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ClientSampleId :
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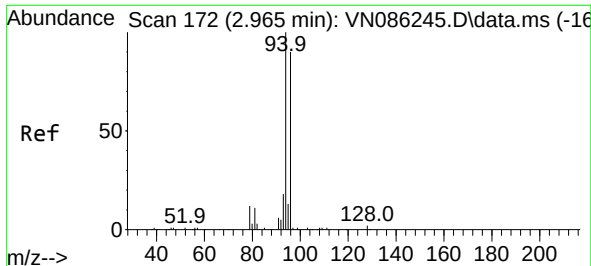
Tgt Ion: 50 Resp: 209307
Ion Ratio Lower Upper
50 100
52 32.1 26.4 39.6



#4
Vinyl Chloride
Concen: 55.856 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 62 Resp: 204553
Ion Ratio Lower Upper
62 100
64 31.8 26.3 39.5

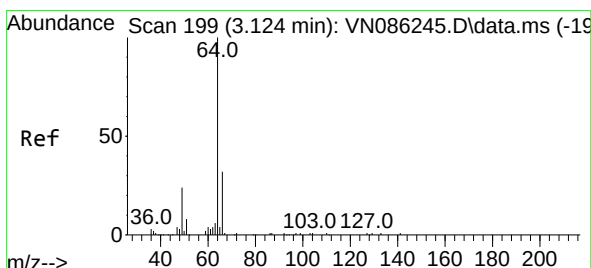
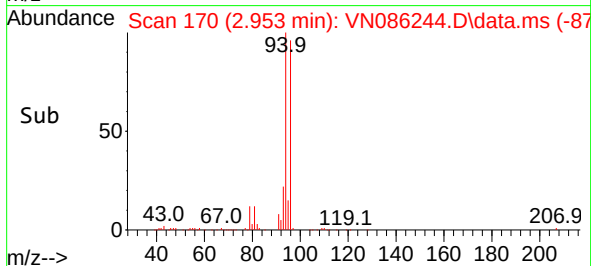
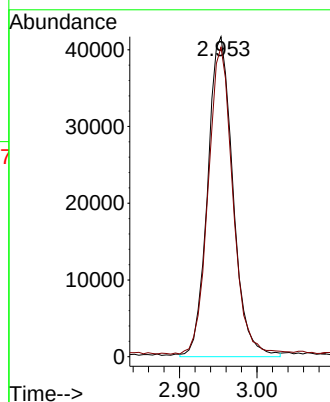
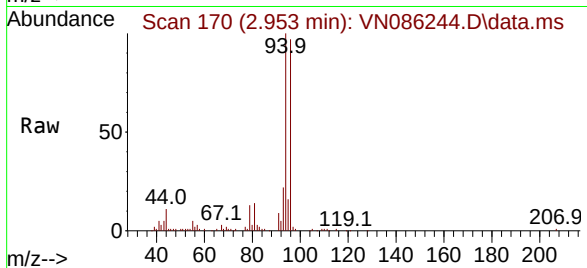




#5
Bromomethane
Concen: 51.877 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

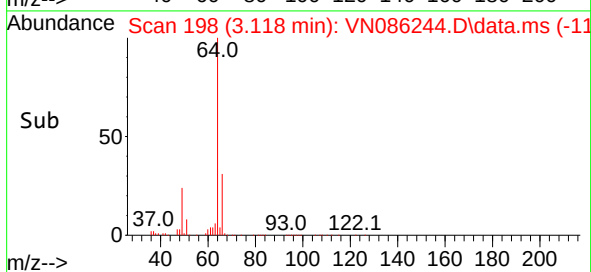
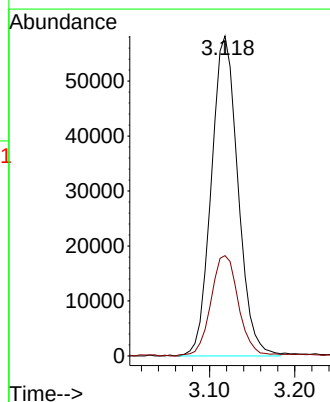
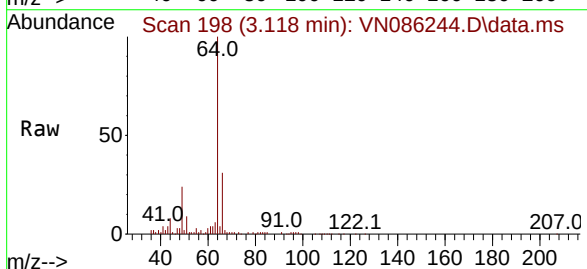
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ClientSampleId :
VSTDIC050

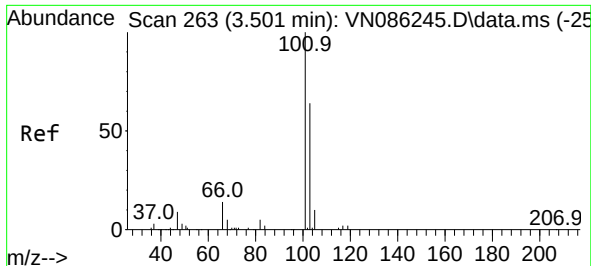
Tgt Ion: 94 Resp: 94764
Ion Ratio Lower Upper
94 100
96 96.6 72.2 108.2



#6
Chloroethane
Concen: 54.720 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 64 Resp: 126545
Ion Ratio Lower Upper
64 100
66 31.0 25.7 38.5

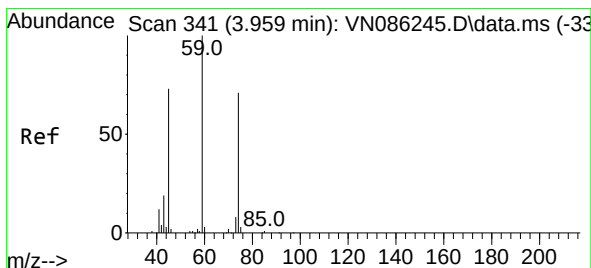
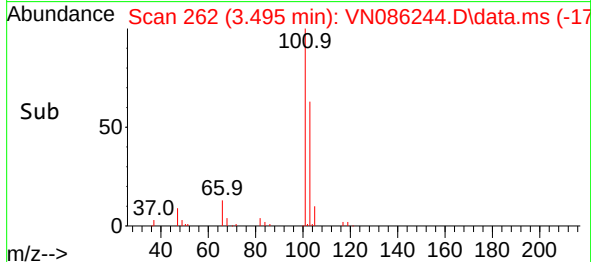
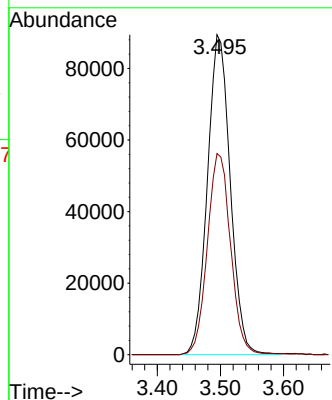
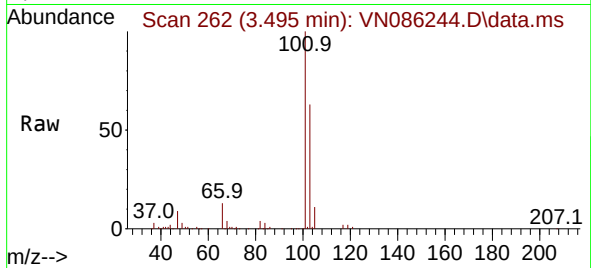




#7
 Trichlorofluoromethane
 Concen: 56.563 ug/l
 RT: 3.495 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

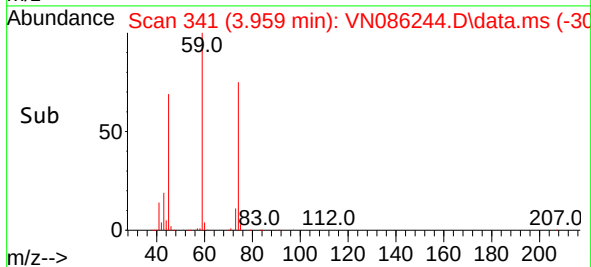
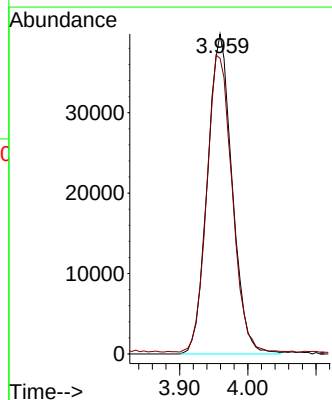
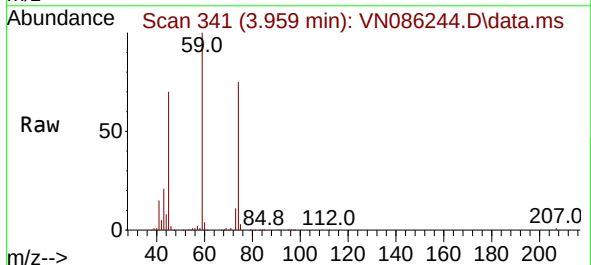
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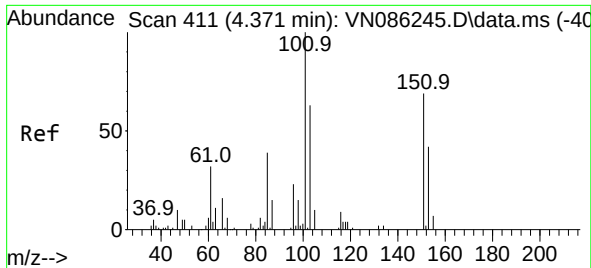
Tgt Ion:101 Resp: 224704
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.2 76.8



#8
 Diethyl Ether
 Concen: 54.826 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

Tgt Ion: 74 Resp: 100444
 Ion Ratio Lower Upper
 74 100
 45 94.8 19.2 173.2

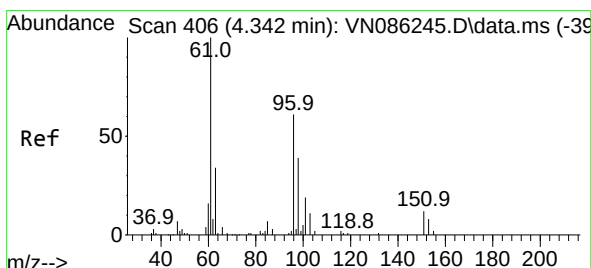
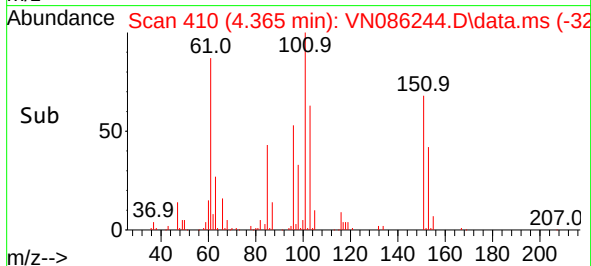
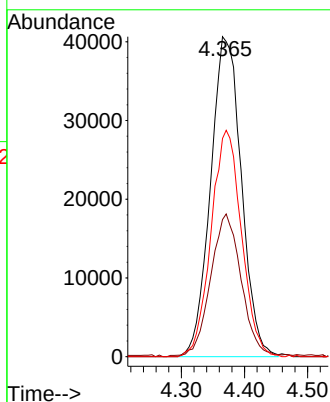
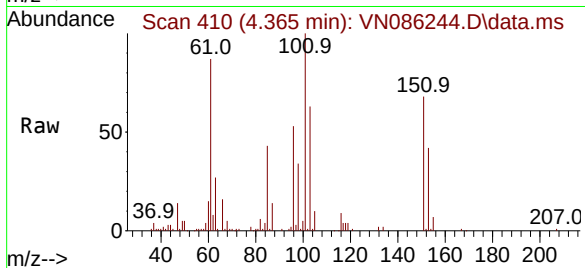




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 56.236 ug/l
 RT: 4.365 min Scan# 411
 Delta R.T. -0.006 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

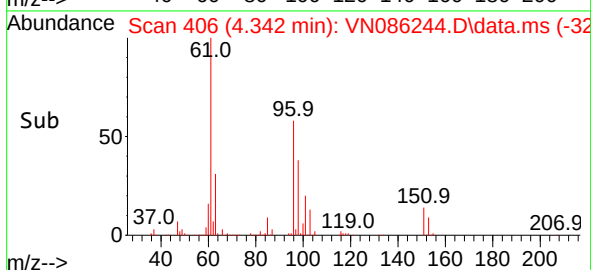
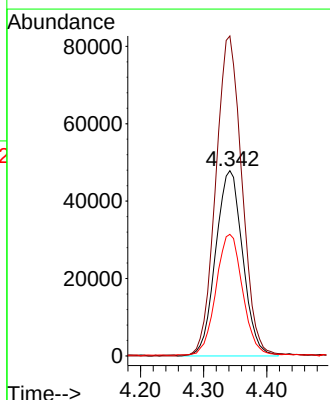
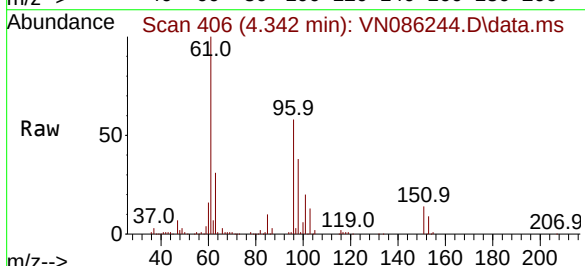
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

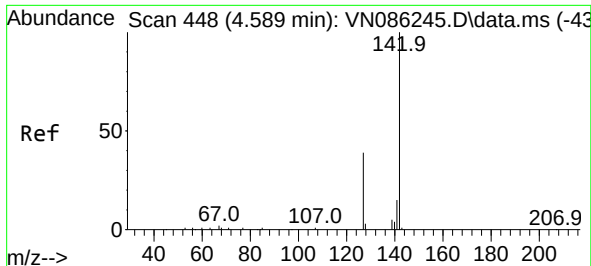
Tgt Ion:101 Resp: 137760
 Ion Ratio Lower Upper
 101 100
 85 43.0 0.0 93.0
 151 69.8 0.0 138.6



#10
 1,1-Dichloroethene
 Concen: 53.920 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

Tgt Ion: 96 Resp: 142552
 Ion Ratio Lower Upper
 96 100
 61 172.7 131.1 196.7
 98 64.9 51.6 77.4

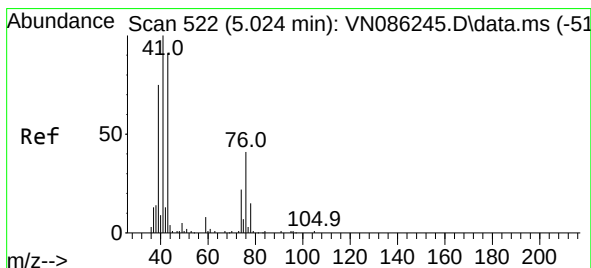
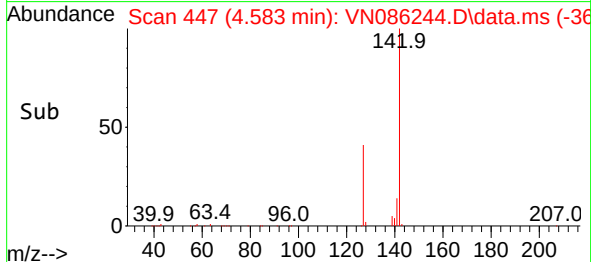
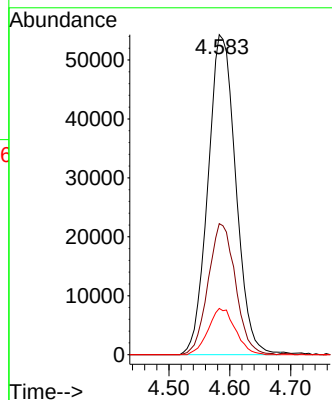
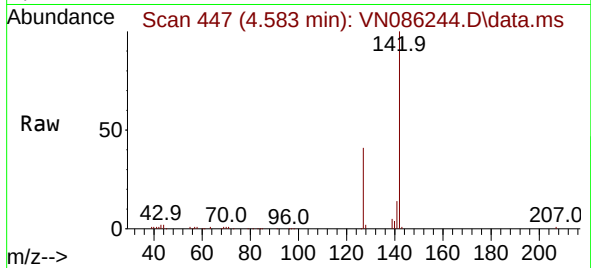




#11
Methyl Iodide
Concen: 56.678 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

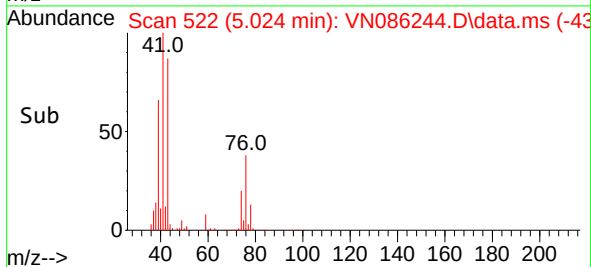
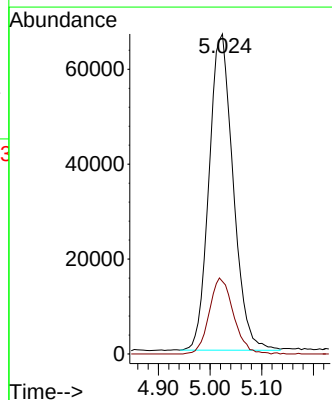
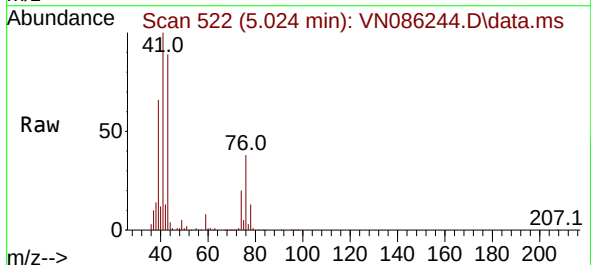
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

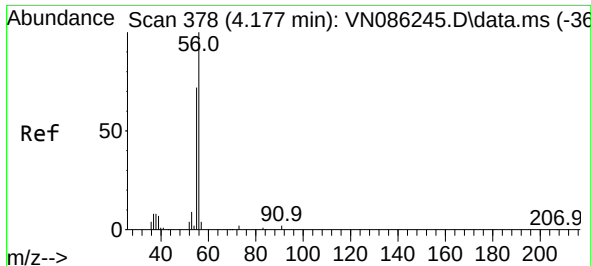
Tgt Ion:142 Resp: 172223
Ion Ratio Lower Upper
142 100
127 41.0 19.6 58.8
141 14.5 7.3 21.9



#12
Methyl Acetate
Concen: 57.904 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 216174
Ion Ratio Lower Upper
43 100
74 22.9 19.1 28.7

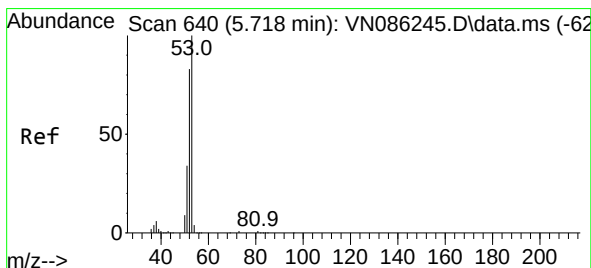
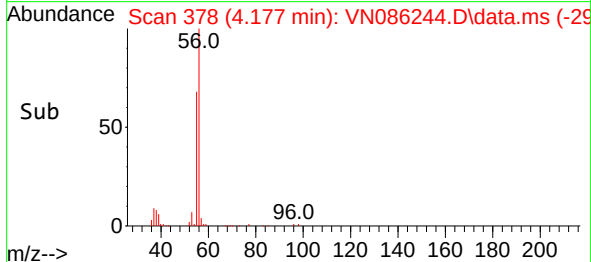
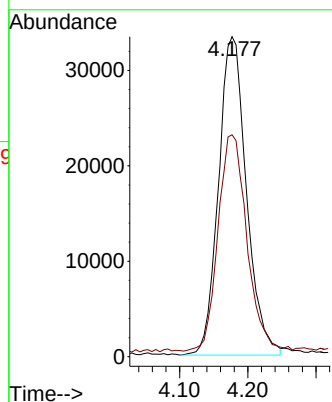
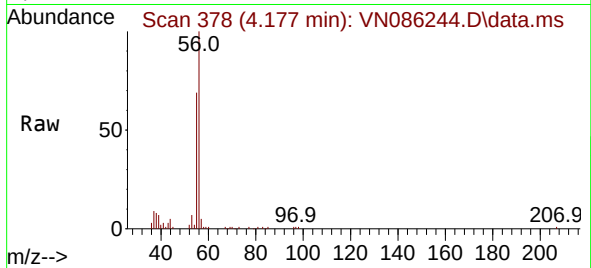




#13
Acrolein
Concen: 223.977 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

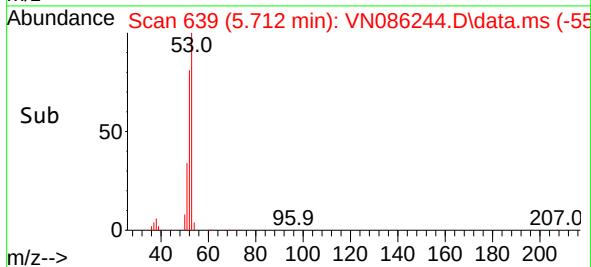
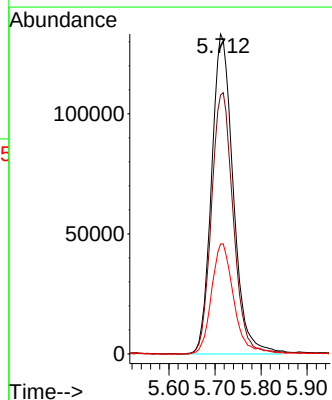
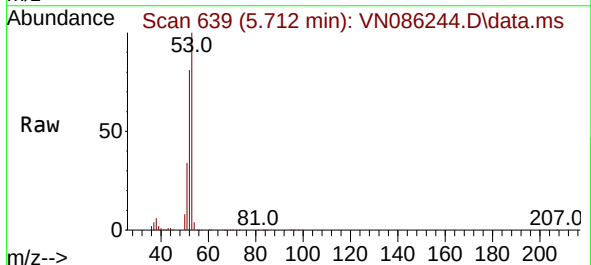
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

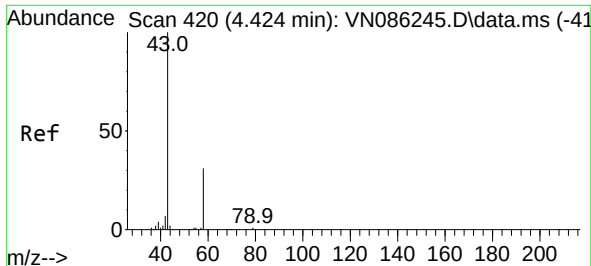
Tgt Ion: 56 Resp: 95048
Ion Ratio Lower Upper
56 100
55 69.9 56.5 84.7



#14
Acrylonitrile
Concen: 276.391 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 53 Resp: 435610
Ion Ratio Lower Upper
53 100
52 82.0 40.2 120.6
51 34.5 17.5 52.6





#15

Acetone

Concen: 281.504 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

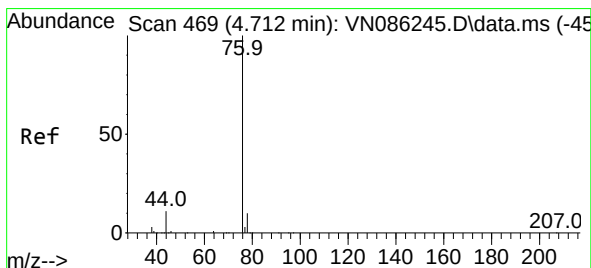
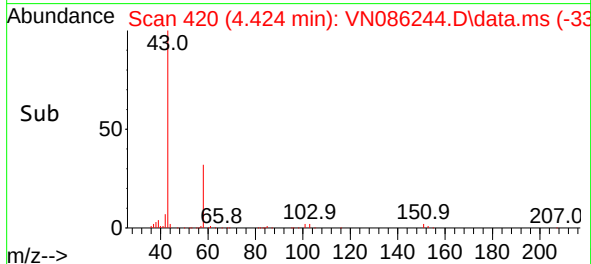
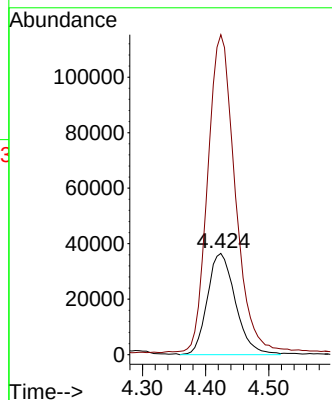
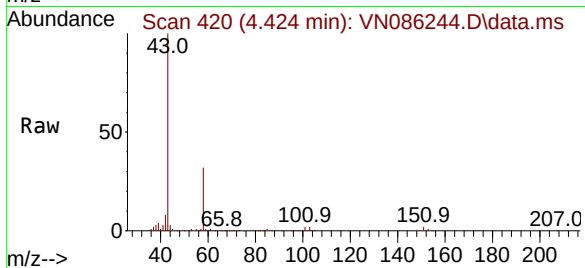
VSTDICC050

Tgt Ion: 58 Resp: 112588

Ion Ratio Lower Upper

58 100

43 312.3 261.8 392.8



#16

Carbon Disulfide

Concen: 51.220 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086244.D

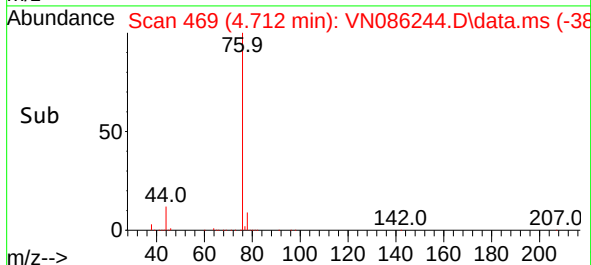
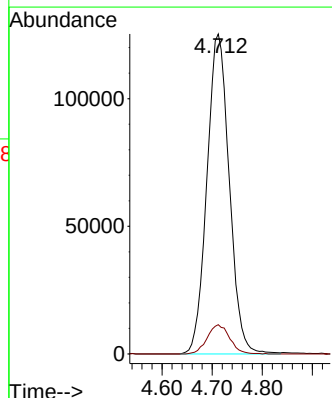
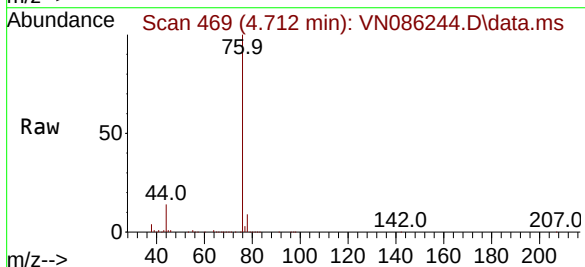
Acq: 11 Apr 2025 11:52

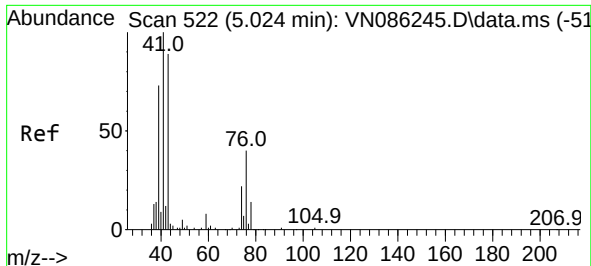
Tgt Ion: 76 Resp: 388287

Ion Ratio Lower Upper

76 100

78 9.2 7.7 11.5





#17

Allyl chloride

Concen: 54.451 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

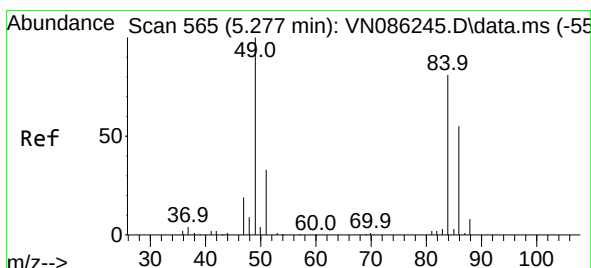
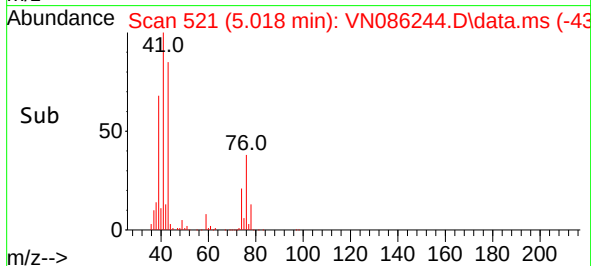
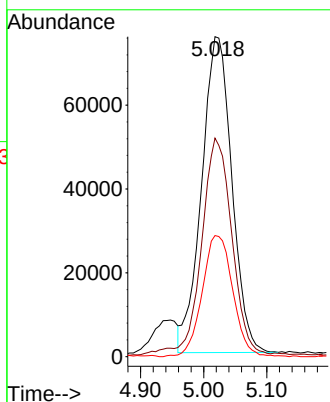
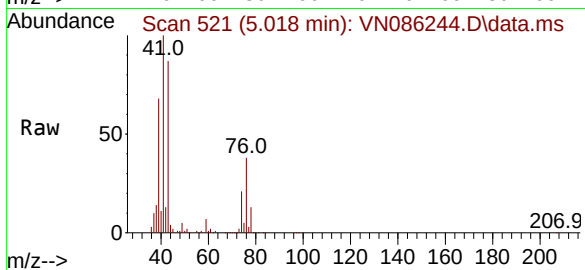
Tgt Ion: 41 Resp: 250898

Ion Ratio Lower Upper

41 100

39 68.2 34.4 103.2

76 38.1 18.8 56.3



#18

Methylene Chloride

Concen: 53.099 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion: 84 Resp: 160052

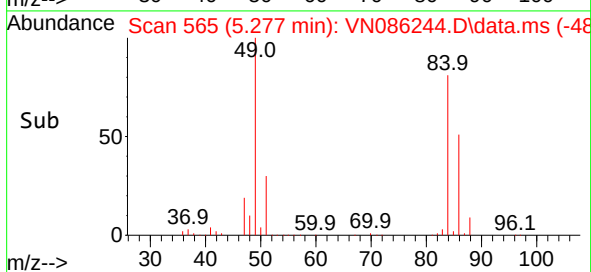
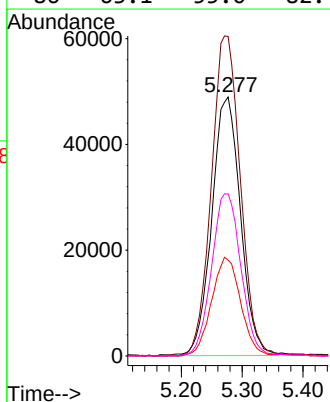
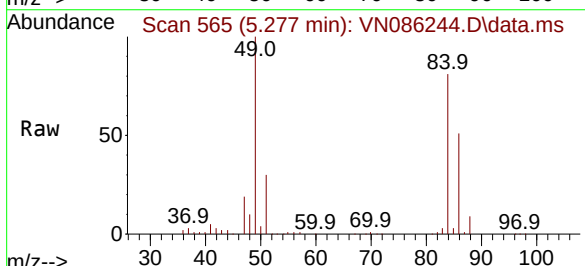
Ion Ratio Lower Upper

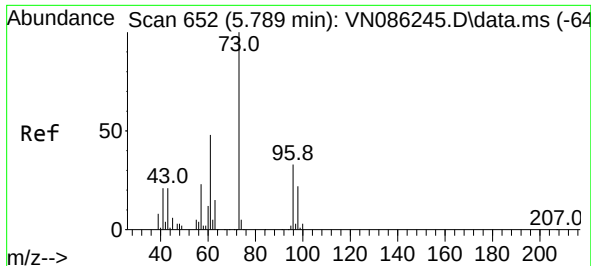
84 100

49 124.3 99.1 148.7

51 37.3 32.3 48.5

86 63.1 55.0 82.4

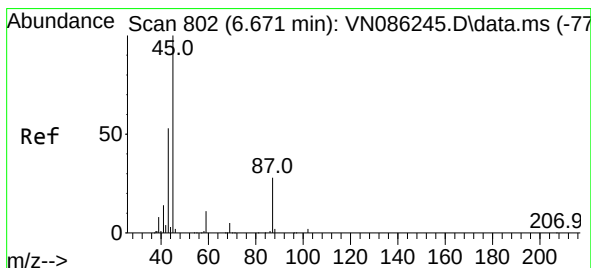
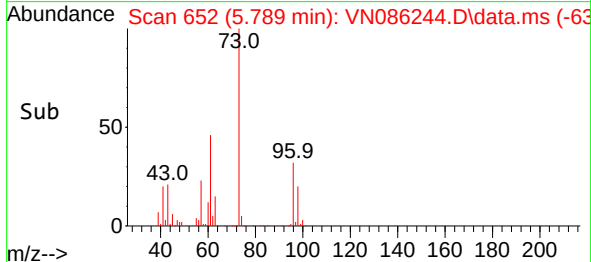
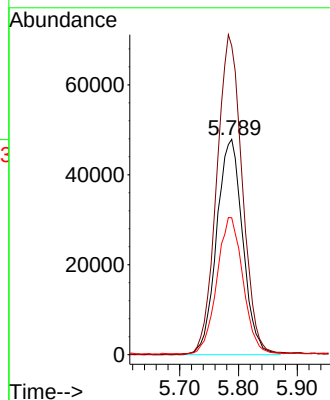
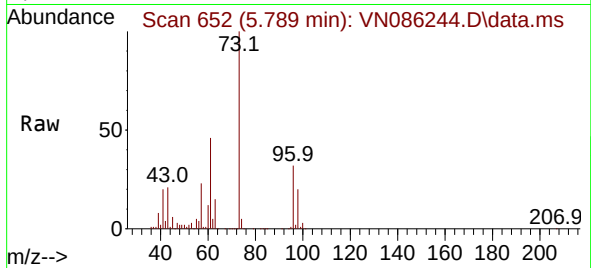




#19
trans-1,2-Dichloroethene
Concen: 62.042 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

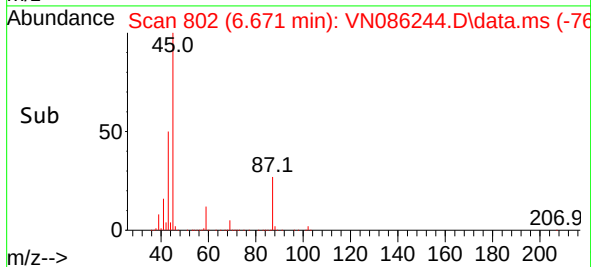
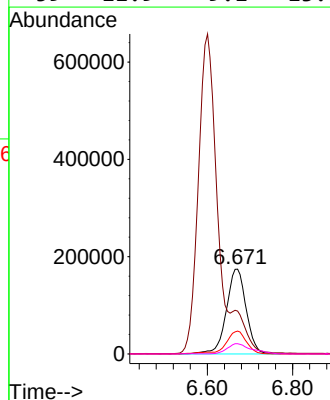
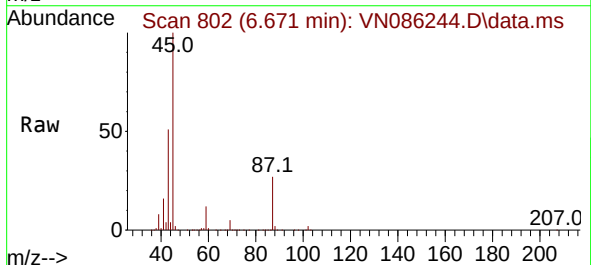
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

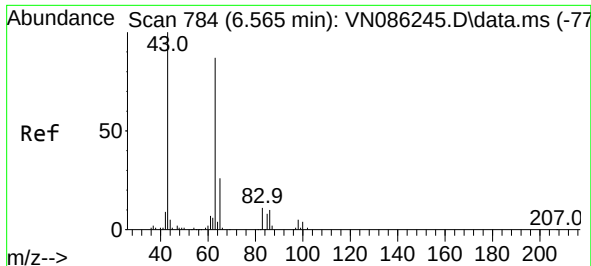
Tgt Ion: 96 Resp: 147953
Ion Ratio Lower Upper
96 100
61 143.4 115.9 173.9
98 63.2 52.1 78.1



#20
Diisopropyl ether
Concen: 56.516 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 45 Resp: 559920
Ion Ratio Lower Upper
45 100
43 49.4 42.3 63.5
87 27.1 22.2 33.4
59 11.9 9.1 13.7





#21

1,1-Dichloroethane

Concen: 55.639 ug/l

RT: 6.571 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

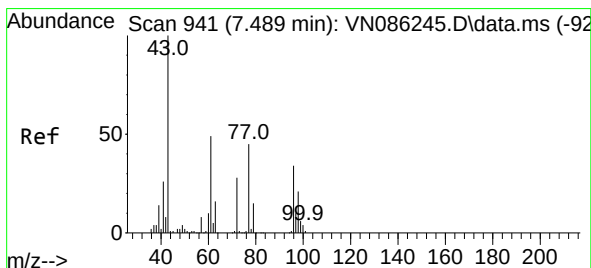
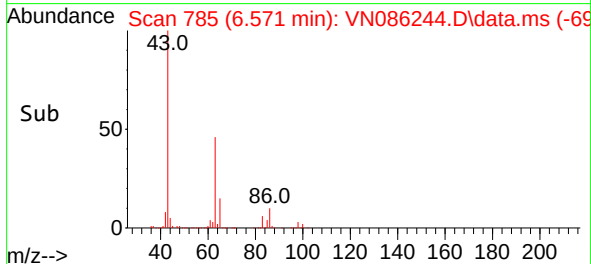
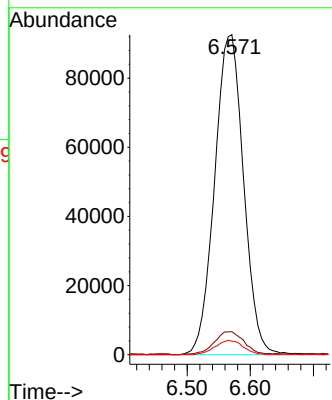
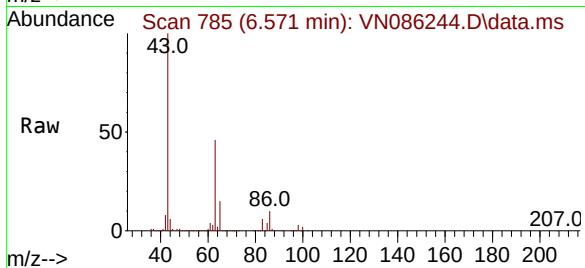
Tgt Ion: 63 Resp: 294059

Ion Ratio Lower Upper

63 100

98 7.2 3.1 9.3

100 4.2 2.3 6.9



#22

cis-1,2-Dichloroethene

Concen: 54.098 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

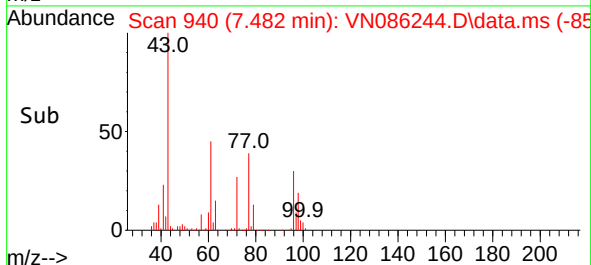
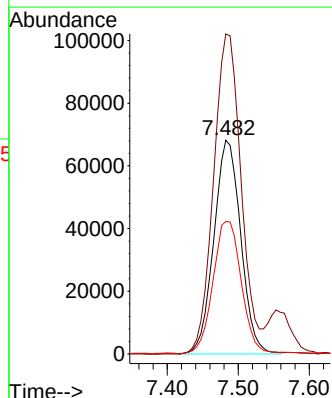
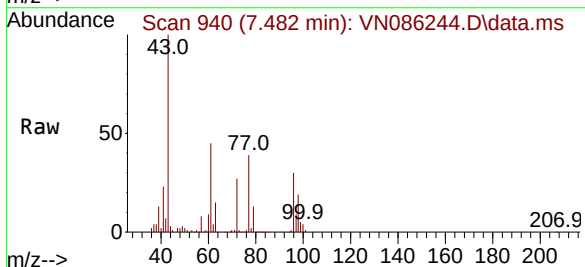
Tgt Ion: 96 Resp: 179457

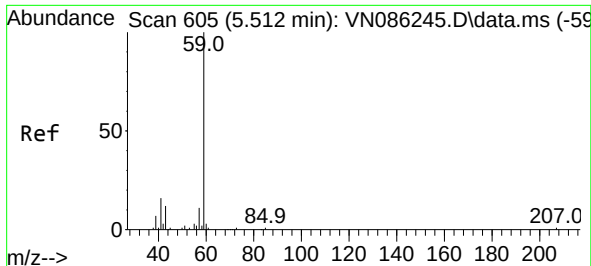
Ion Ratio Lower Upper

96 100

61 153.7 119.5 179.3

98 65.1 51.0 76.6

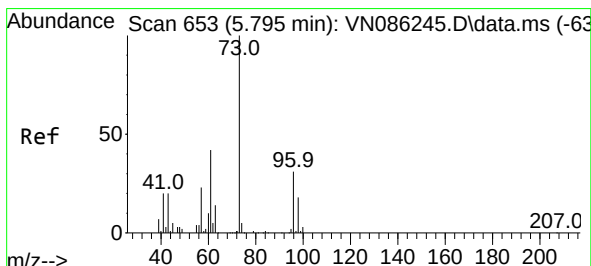
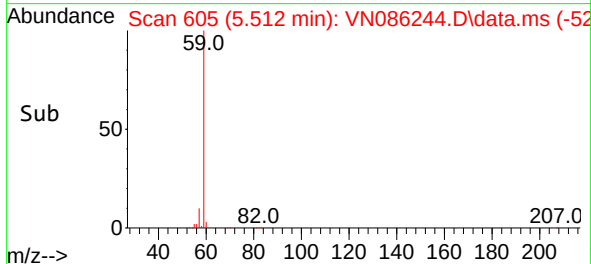
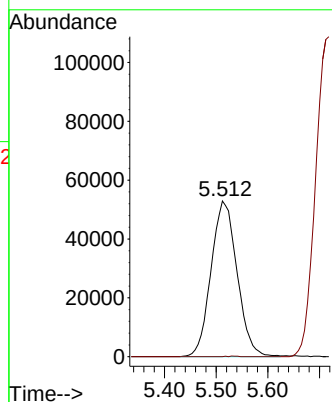
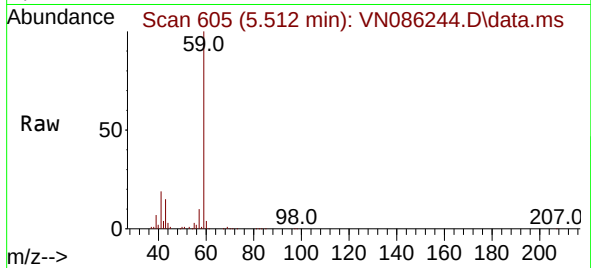




#23
tert-Butyl Alcohol
Concen: 283.431 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

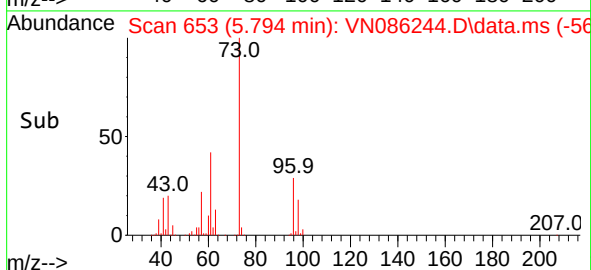
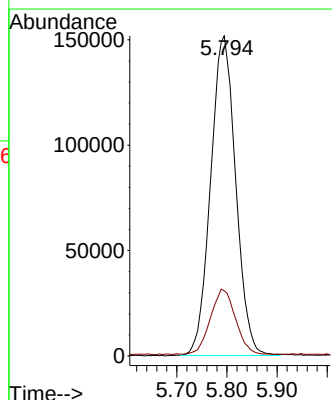
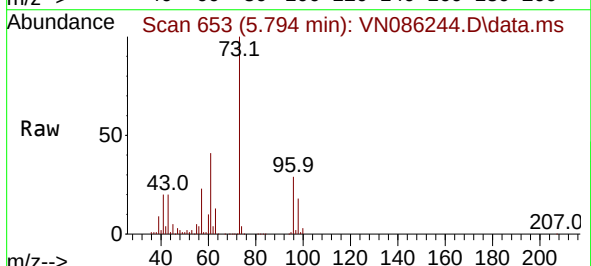
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

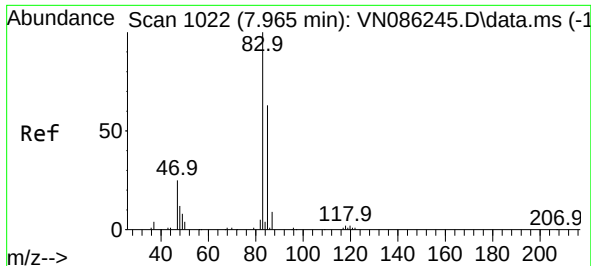
Tgt Ion: 59 Resp: 185093
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 55.313 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 73 Resp: 526838
Ion Ratio Lower Upper
73 100
43 20.3 16.8 25.2





#25

Chloroform

Concen: 55.484 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

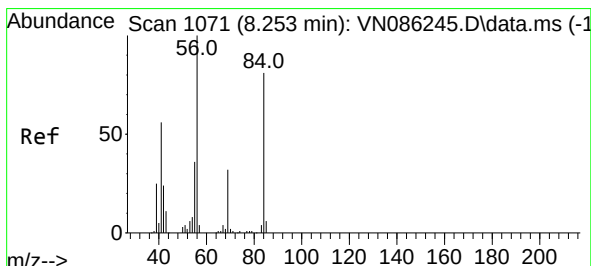
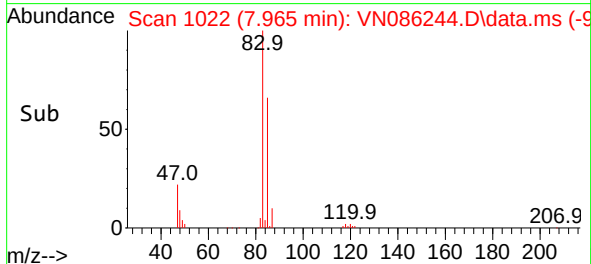
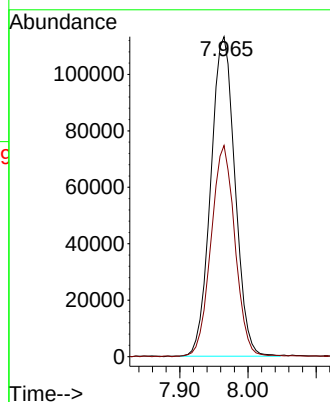
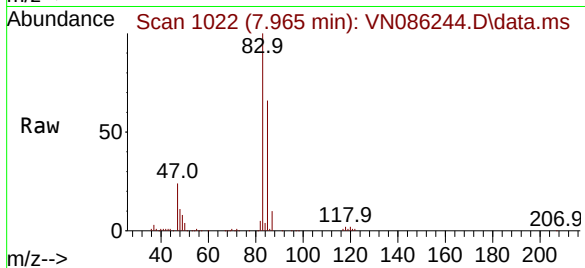
VSTDIC050

Tgt Ion: 83 Resp: 279630

Ion Ratio Lower Upper

83 100

85 65.9 50.5 75.7



#26

Cyclohexane

Concen: 56.272 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

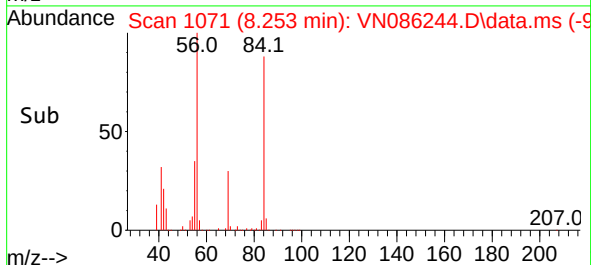
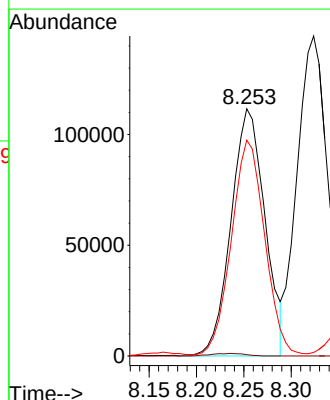
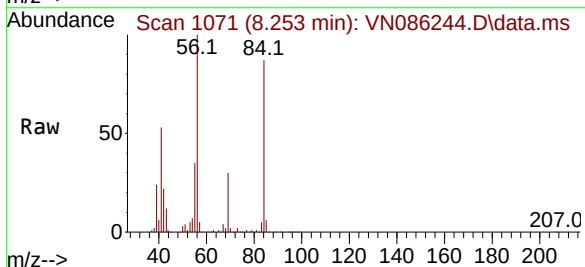
Tgt Ion: 56 Resp: 278241

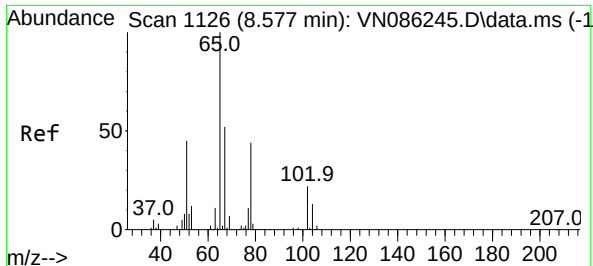
Ion Ratio Lower Upper

56 100

89 1.0 0.0 0.0#

84 86.0 69.0 103.4

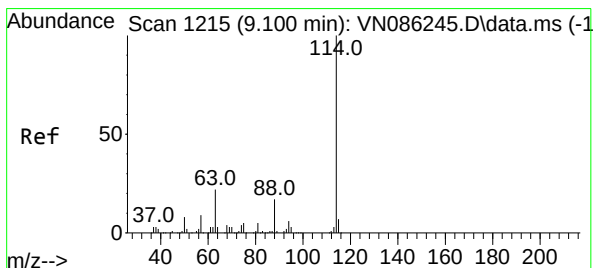
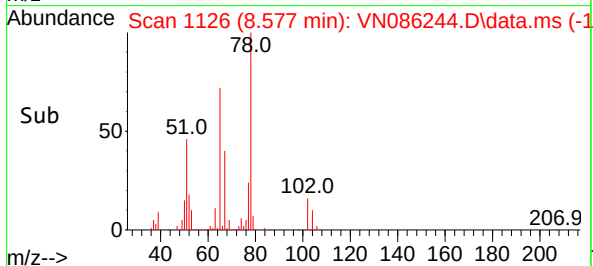
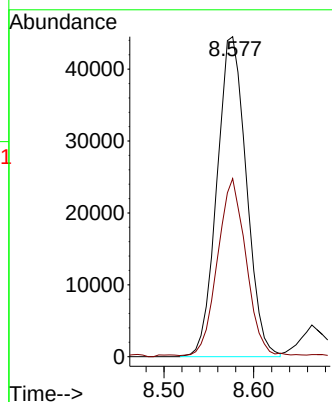
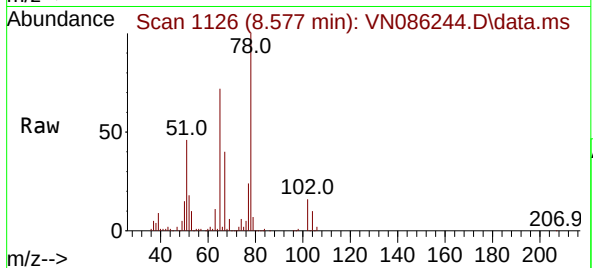




#27
1,2-Dichloroethane-d4
Concen: 29.892 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

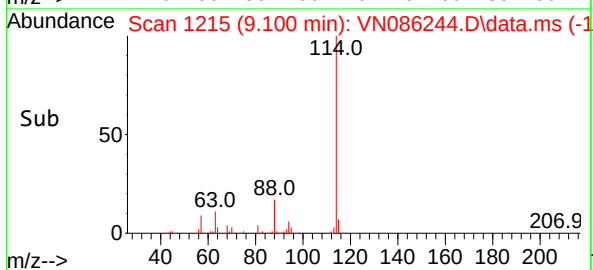
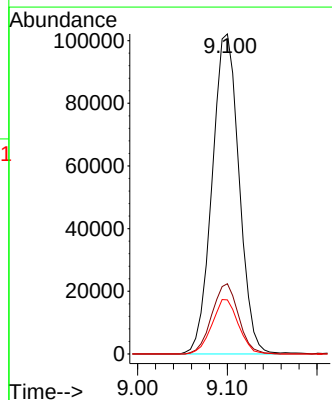
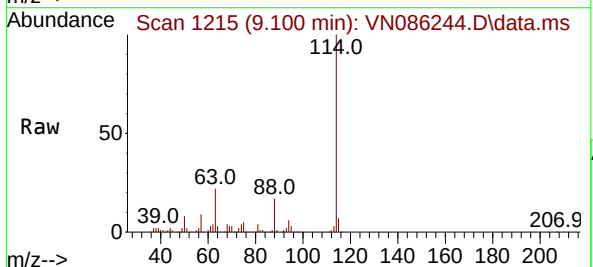
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

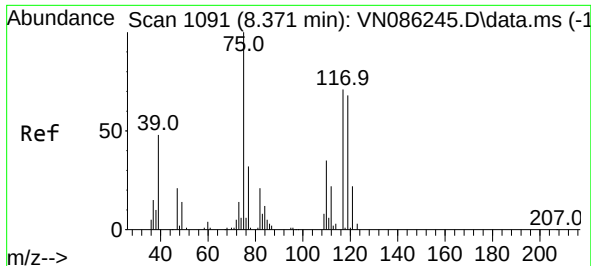
Tgt Ion: 65 Resp: 101225
Ion Ratio Lower Upper
65 100
67 53.0 43.4 65.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 114 Resp: 212849
Ion Ratio Lower Upper
114 100
63 21.7 17.8 26.6
88 16.7 13.4 20.2

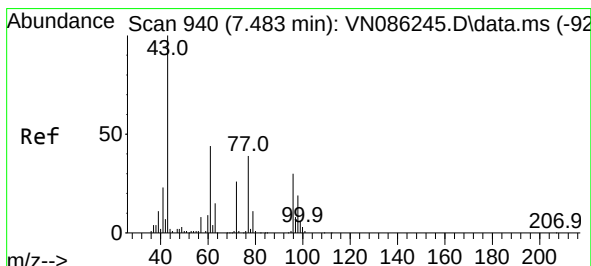
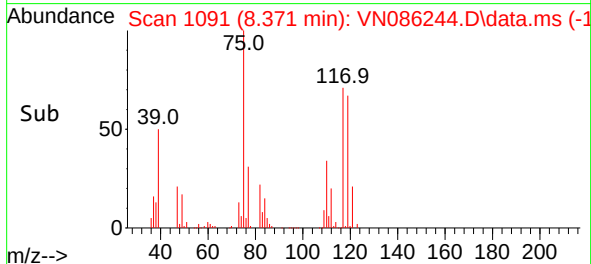
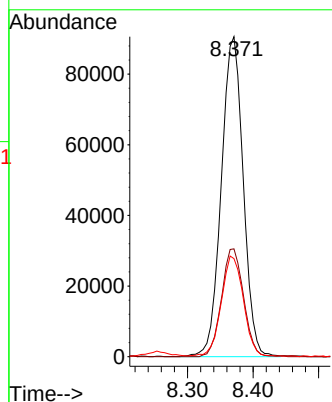
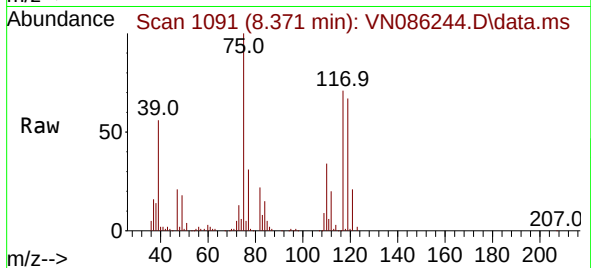




#29
1,1-Dichloropropene
Concen: 55.081 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

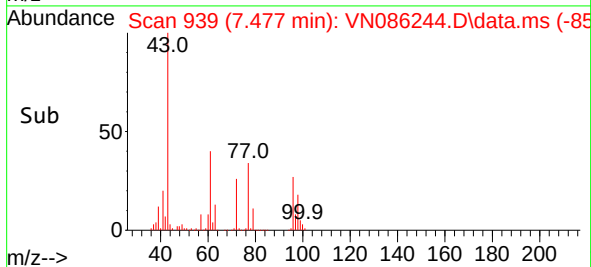
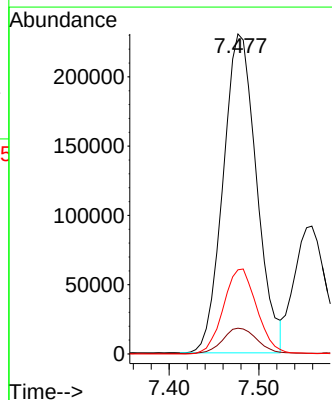
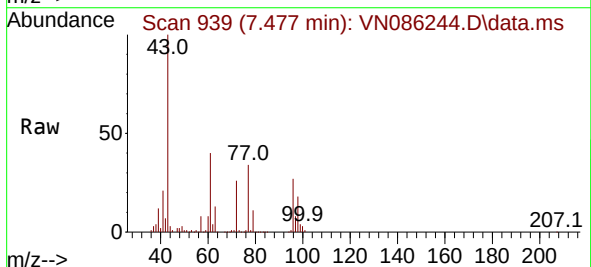
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

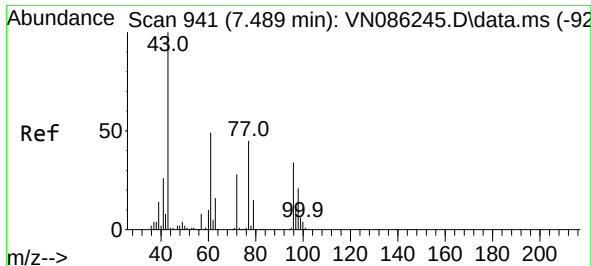
Tgt Ion: 75 Resp: 210025
Ion Ratio Lower Upper
75 100
110 33.9 0.0 68.6
77 31.4 0.0 63.8



#30
2-Butanone
Concen: 282.334 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 596520
Ion Ratio Lower Upper
43 100
57 8.3 6.4 9.6
72 26.5 21.5 32.3

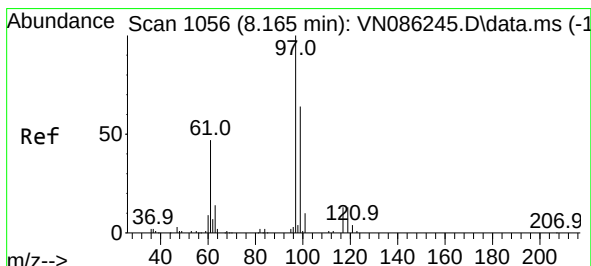
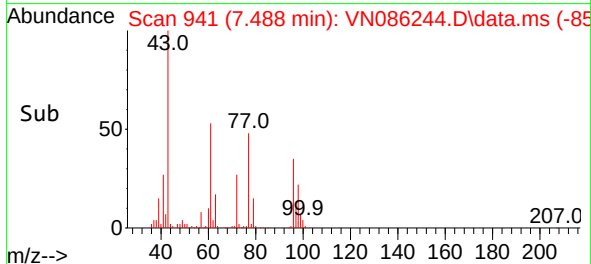
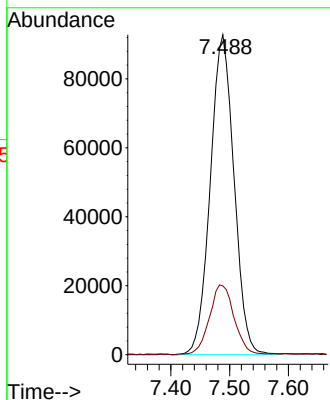
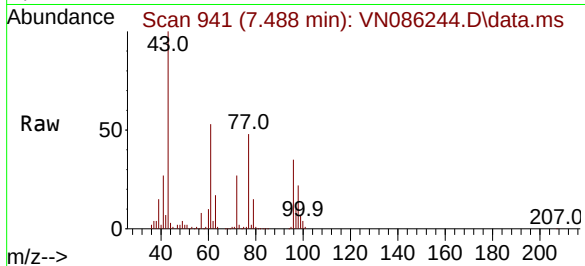




#31
2,2-Dichloropropane
Concen: 55.404 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

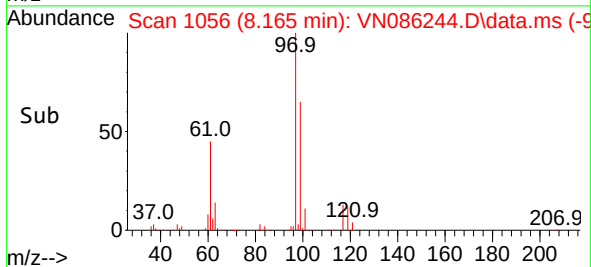
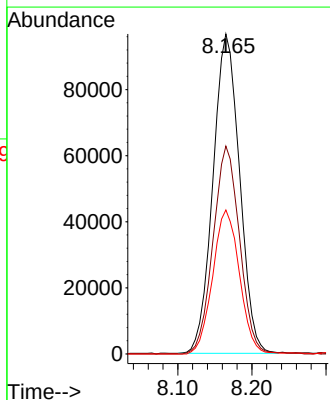
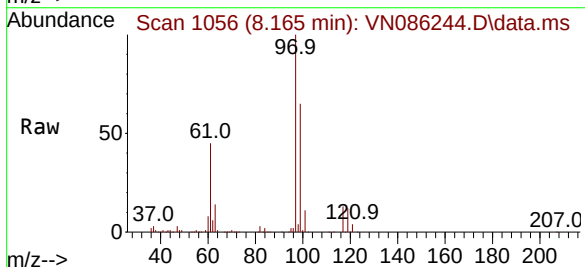
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

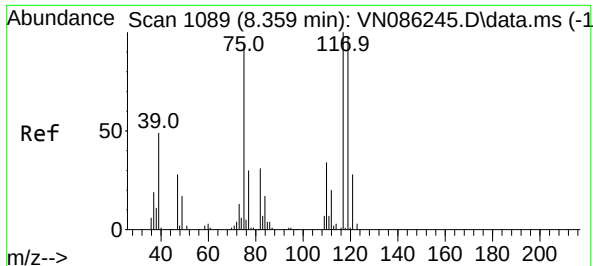
Tgt Ion: 77 Resp: 260037
Ion Ratio Lower Upper
77 100
97 22.2 18.8 28.2



#32
1,1,1-Trichloroethane
Concen: 54.920 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 97 Resp: 240887
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 45.4 37.0 55.6

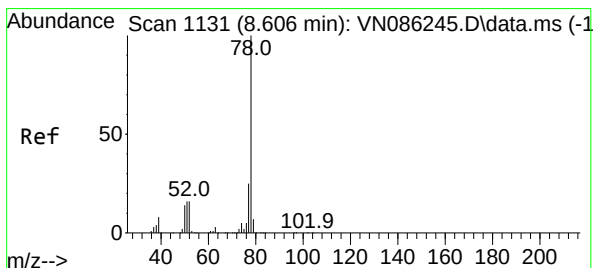
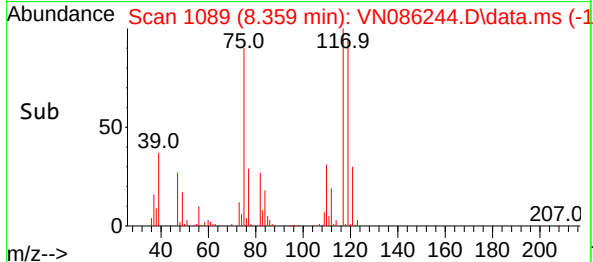
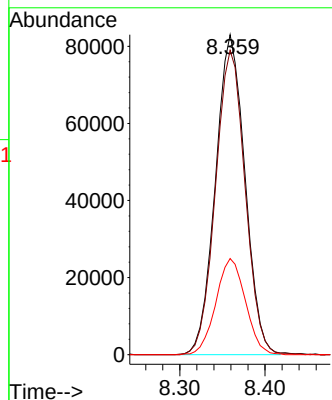
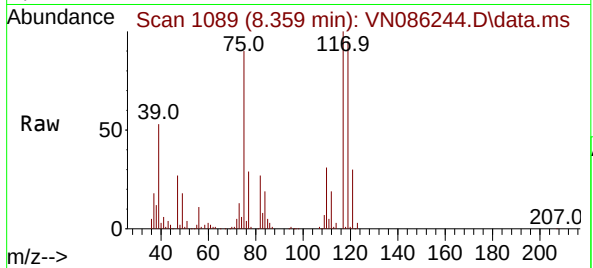




#33
Carbon Tetrachloride
Concen: 56.865 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

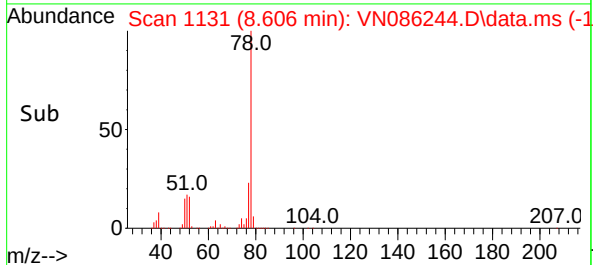
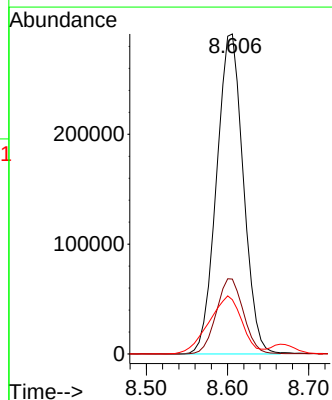
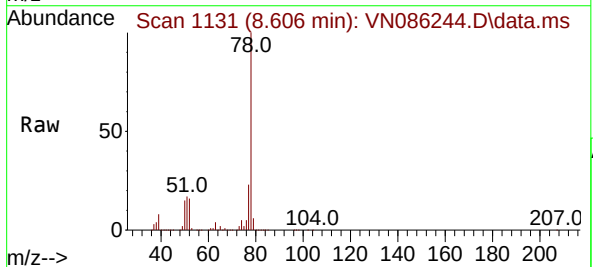
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

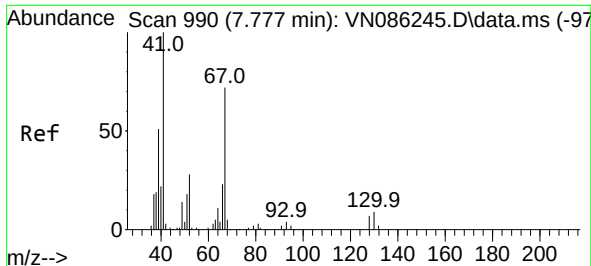
Tgt Ion:117 Resp: 199323
Ion Ratio Lower Upper
117 100
119 94.9 78.3 117.5
121 30.0 22.5 33.7



#34
Benzene
Concen: 54.974 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 78 Resp: 666877
Ion Ratio Lower Upper
78 100
77 23.4 20.0 30.0
51 16.4 12.9 19.3



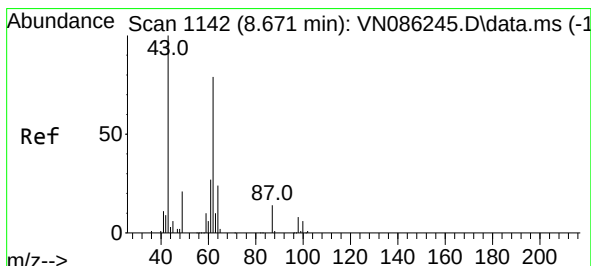
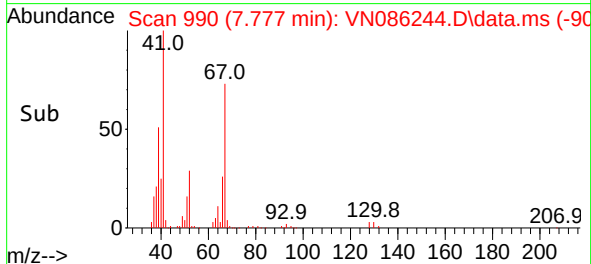
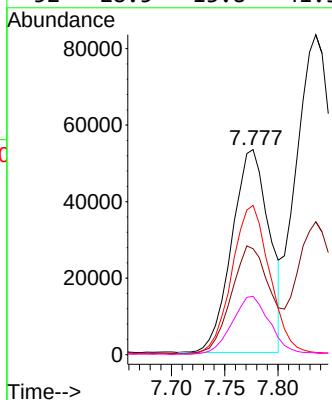
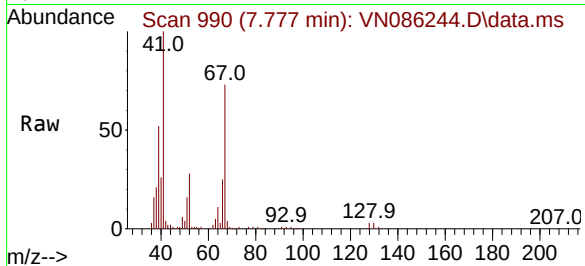


#35
Methacrylonitrile
Concen: 54.448 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 41 Resp: 129688

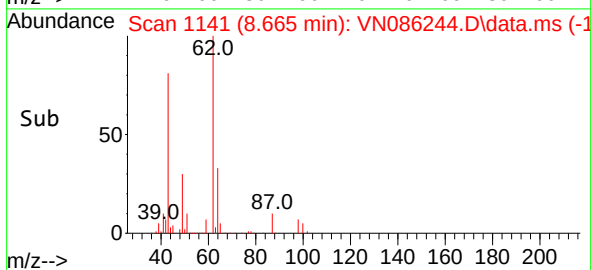
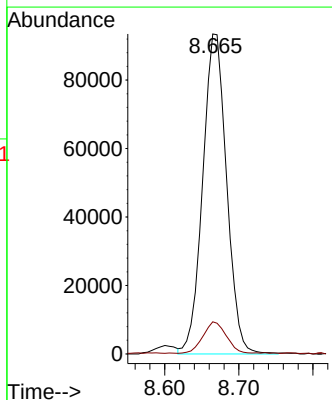
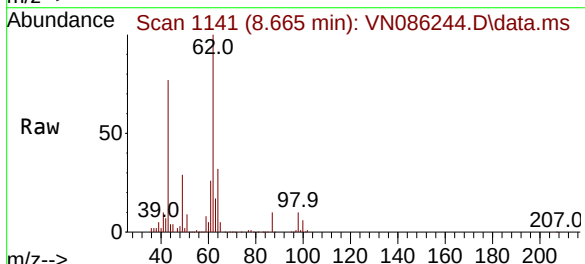
Ion	Ratio	Lower	Upper
41	100		
39	51.4	25.8	77.3
67	73.1	36.0	108.0
52	28.5	13.8	41.3

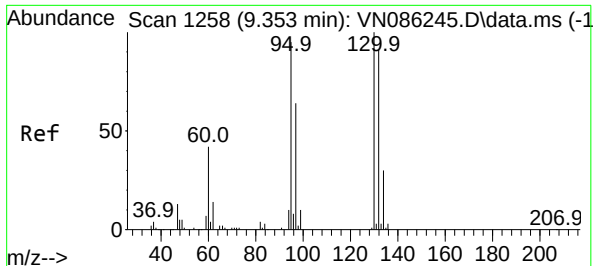


#36
1,2-Dichloroethane
Concen: 55.252 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 62 Resp: 209738

Ion	Ratio	Lower	Upper
62	100		
98	9.5	8.6	12.8





#37

Trichloroethene

Concen: 56.109 ug/l

RT: 9.347 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

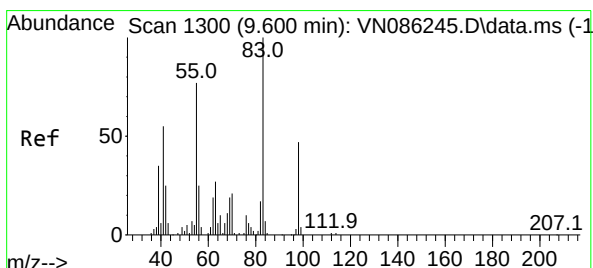
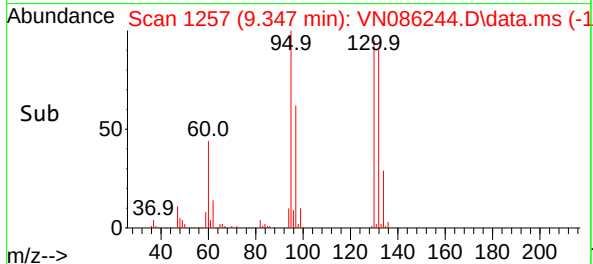
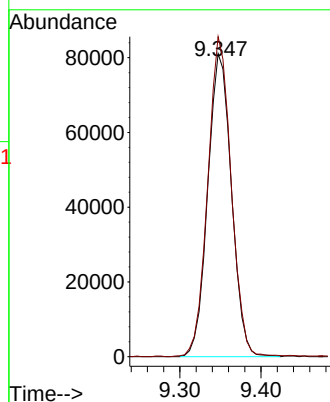
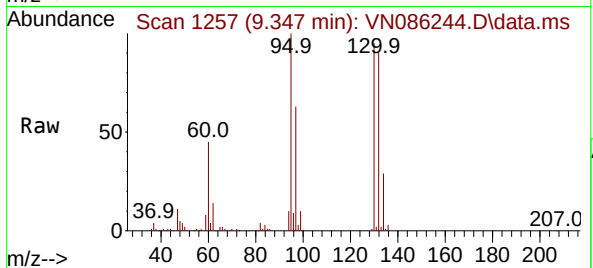
VSTDIC050

Tgt Ion:130 Resp: 164224

Ion Ratio Lower Upper

130 100

95 105.2 76.4 114.6



#38

Methylcyclohexane

Concen: 54.191 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

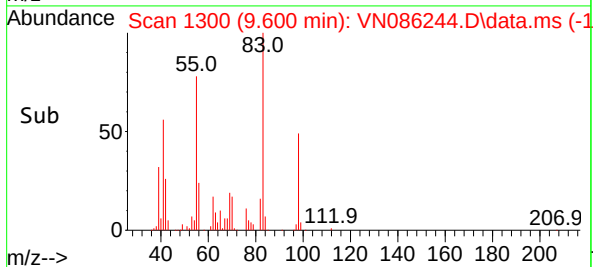
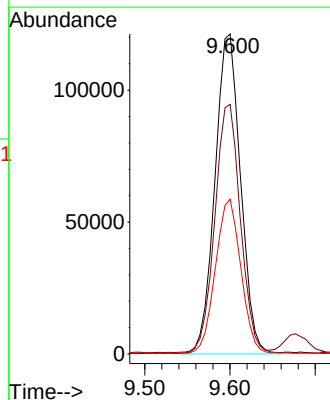
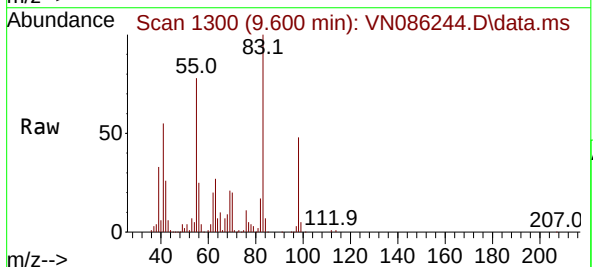
Tgt Ion: 83 Resp: 253415

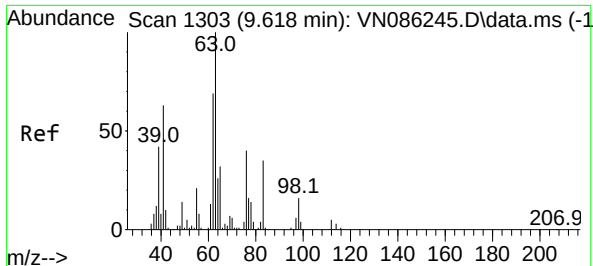
Ion Ratio Lower Upper

83 100

55 77.0 38.5 115.5

98 47.8 24.4 73.2





#39

1,2-Dichloropropane

Concen: 55.783 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

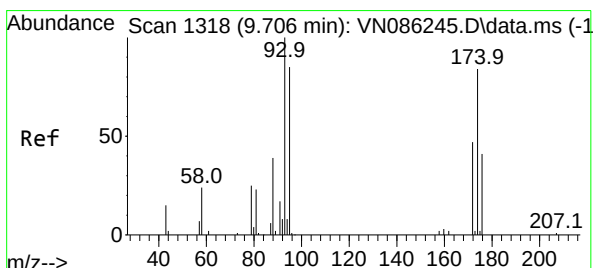
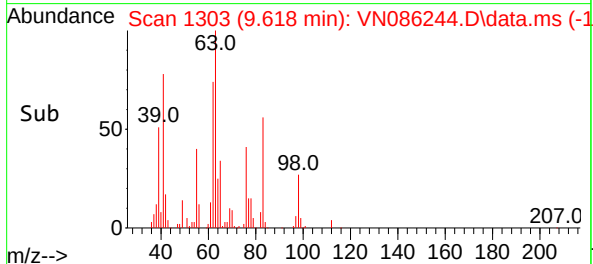
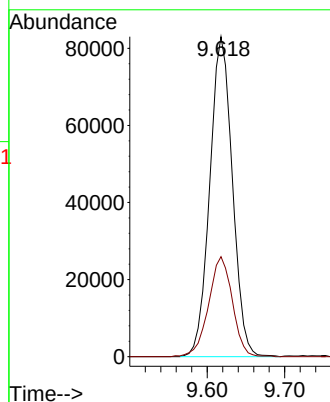
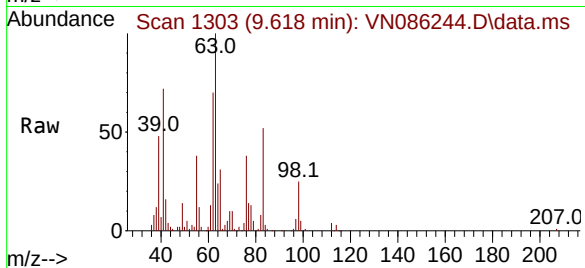
VSTDIC050

Tgt Ion: 63 Resp: 168378

Ion Ratio Lower Upper

63 100

65 31.2 26.0 39.0



#40

Dibromomethane

Concen: 54.730 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

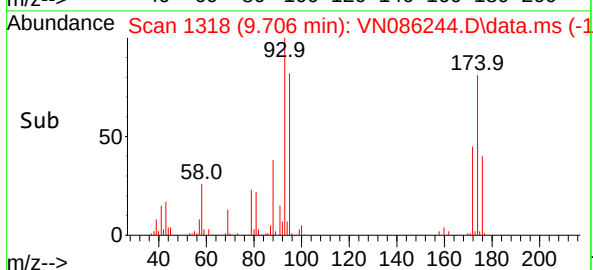
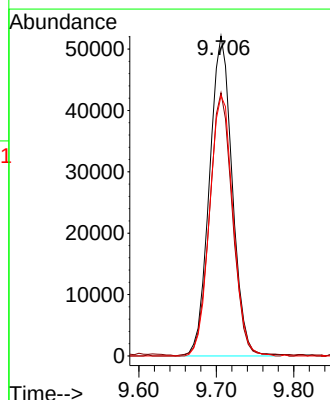
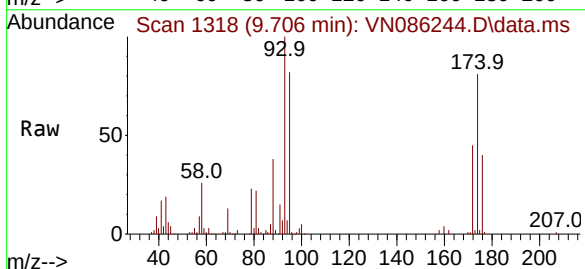
Tgt Ion: 93 Resp: 106697

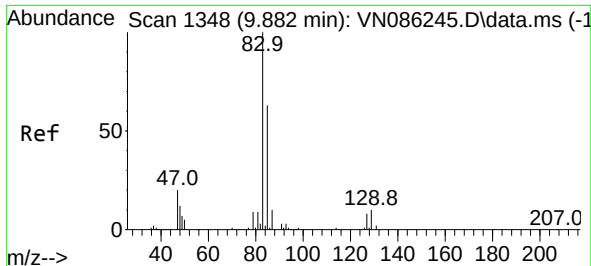
Ion Ratio Lower Upper

93 100

95 82.5 0.0 169.0

174 83.6 0.0 168.0

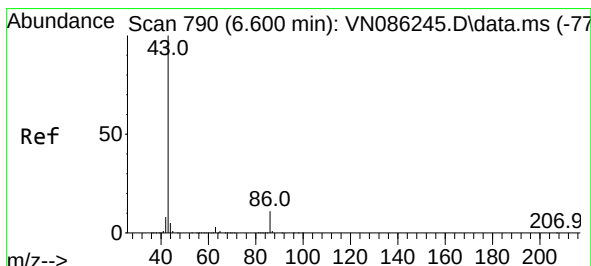
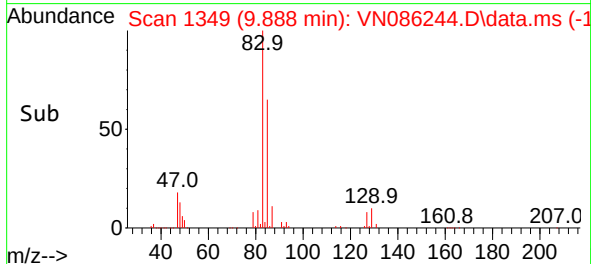
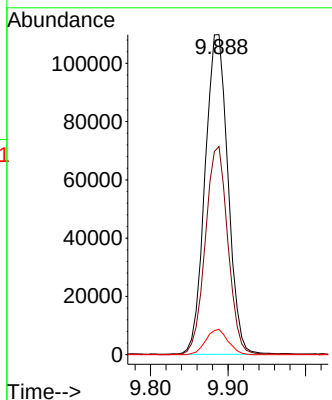
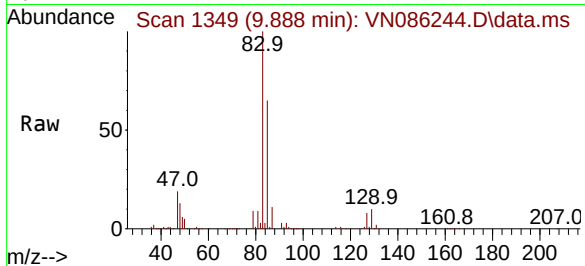




#41
Bromodichloromethane
Concen: 53.865 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

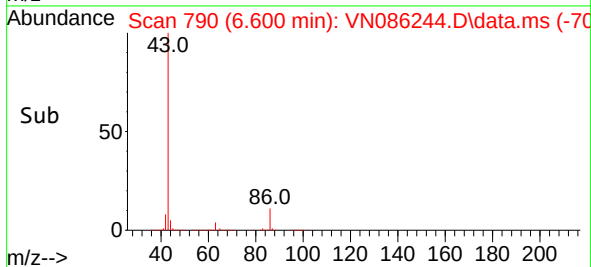
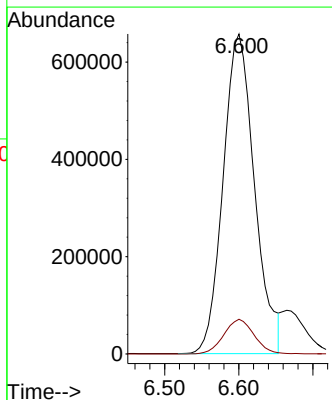
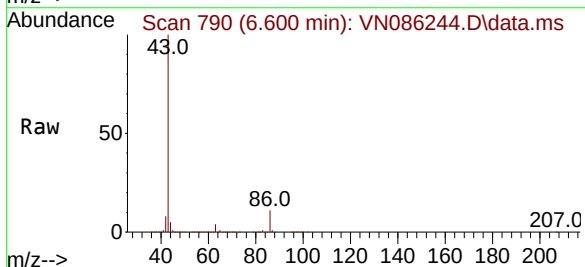
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

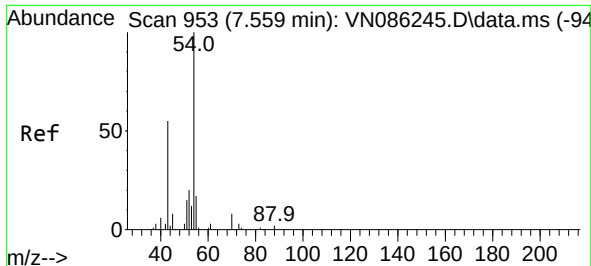
Tgt Ion: 83 Resp: 225600
Ion Ratio Lower Upper
83 100
85 65.0 50.2 75.2
127 8.0 6.2 9.4



#42
Vinyl Acetate
Concen: 269.341 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 1937093
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6

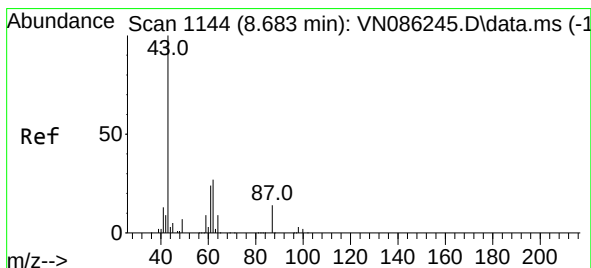
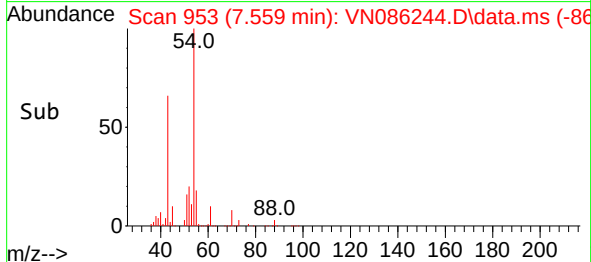
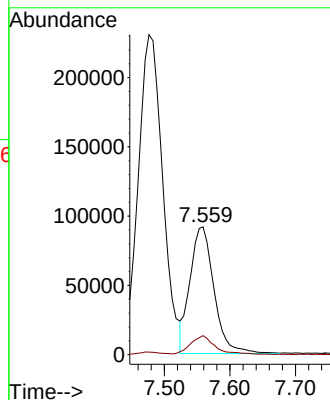
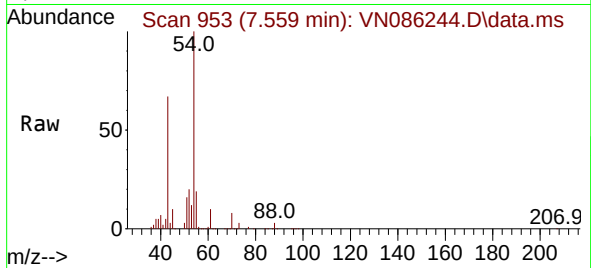




#43
Ethyl Acetate
Concen: 54.775 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

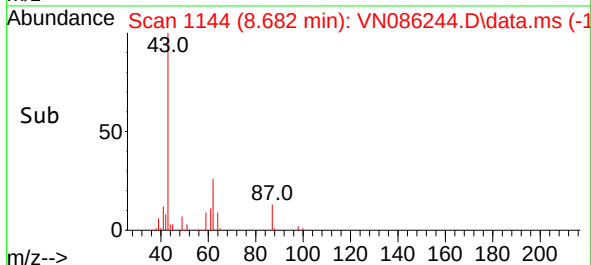
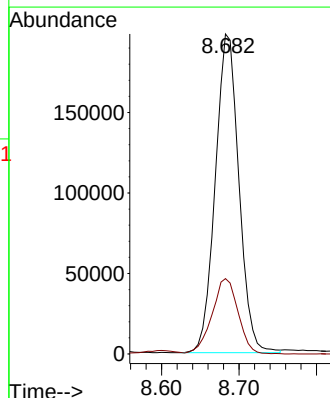
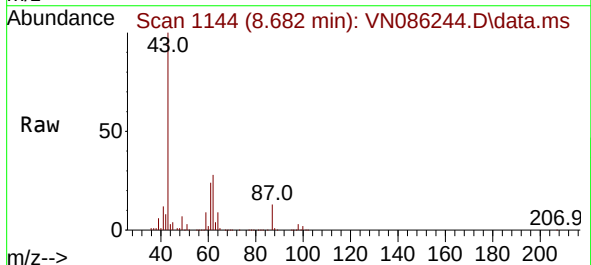
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

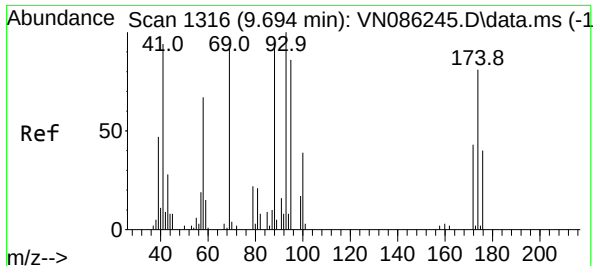
Tgt Ion: 43 Resp: 233433
Ion Ratio Lower Upper
43 100
45 14.6 11.2 16.8



#44
Isopropyl Acetate
Concen: 53.034 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 419280
Ion Ratio Lower Upper
43 100
61 26.1 20.5 30.7





#45

1,4-Dioxane

Concen: 1134.960 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

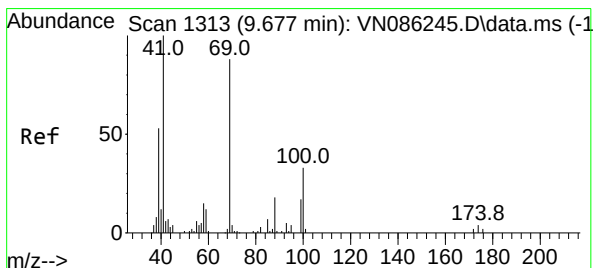
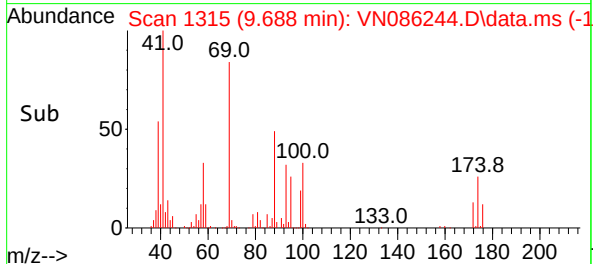
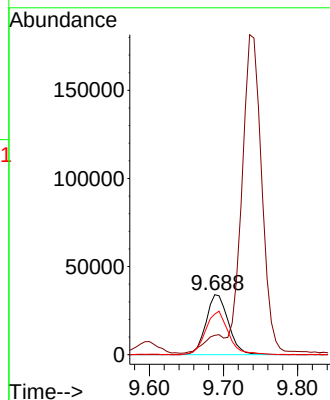
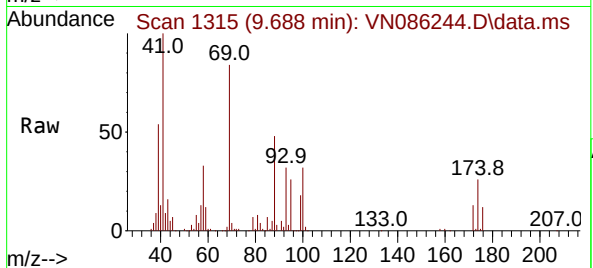
Tgt Ion: 88 Resp: 71351

Ion Ratio Lower Upper

88 100

43 27.1 14.4 21.6#

58 74.0 59.8 89.8



#46

Methyl methacrylate

Concen: 56.778 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

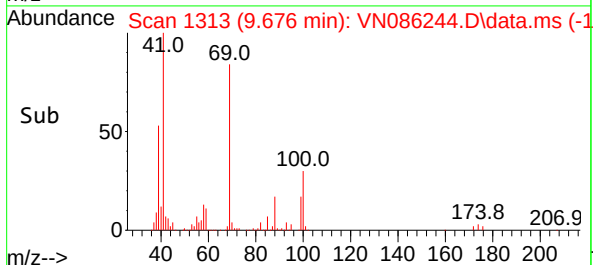
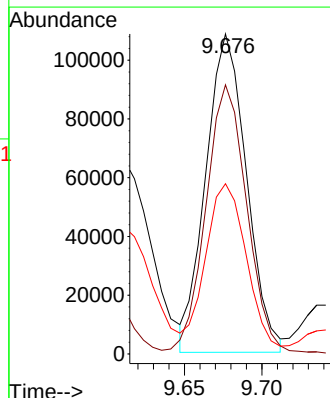
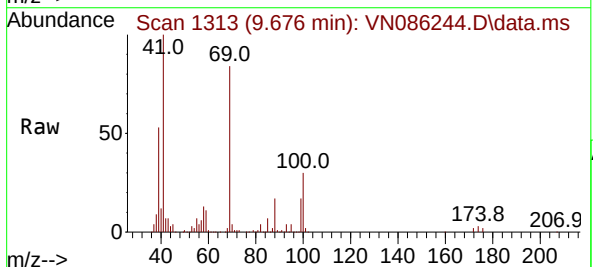
Tgt Ion: 41 Resp: 197782

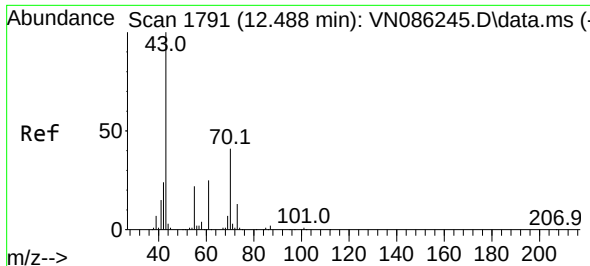
Ion Ratio Lower Upper

41 100

69 85.6 43.2 129.6

39 53.3 26.4 79.0

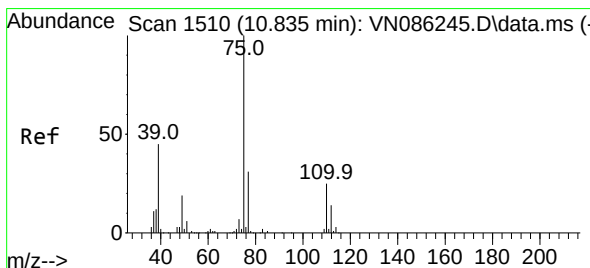
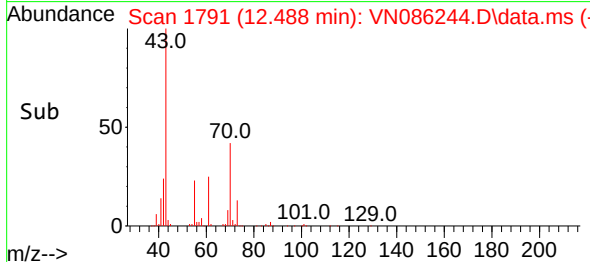
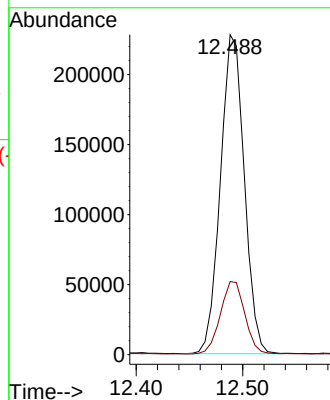
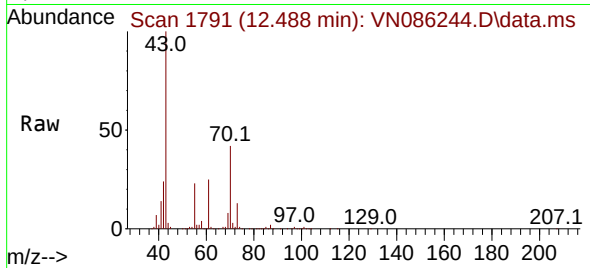




#47
n-amy1 Acetate
Concen: 55.417 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

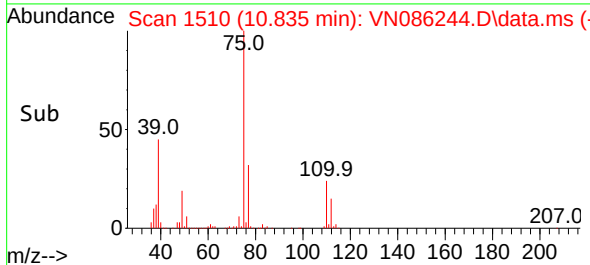
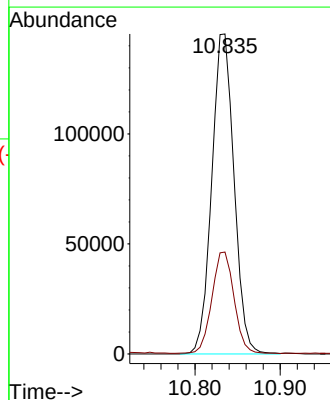
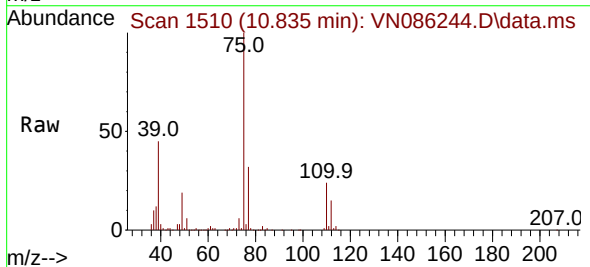
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

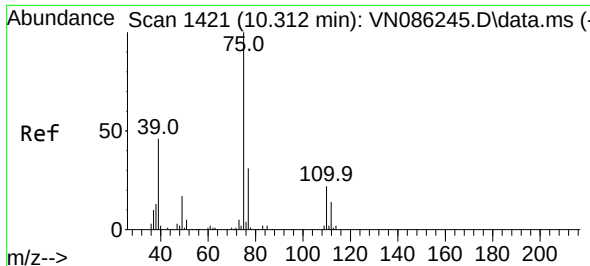
Tgt Ion: 43 Resp: 354004
Ion Ratio Lower Upper
43 100
55 23.3 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 55.817 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 75 Resp: 264279
Ion Ratio Lower Upper
75 100
77 31.7 25.1 37.7

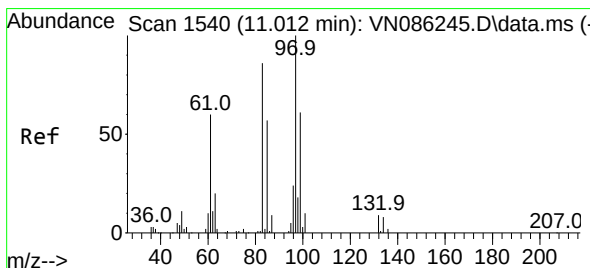
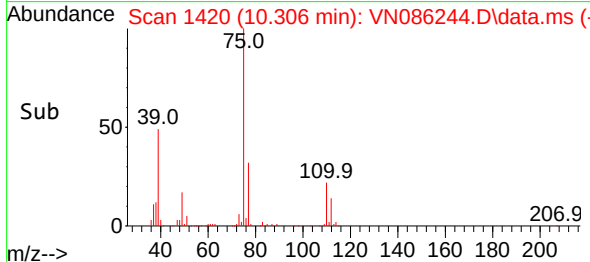
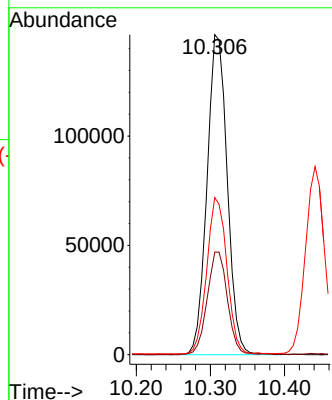
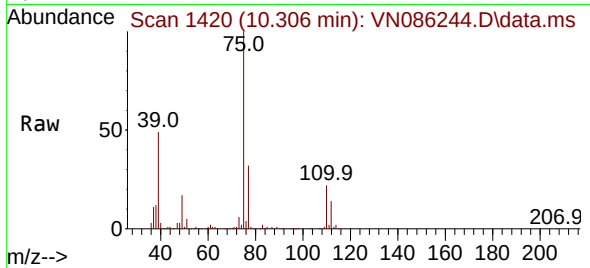




#49
 cis-1,3-Dichloropropene
 Concen: 55.377 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.006 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

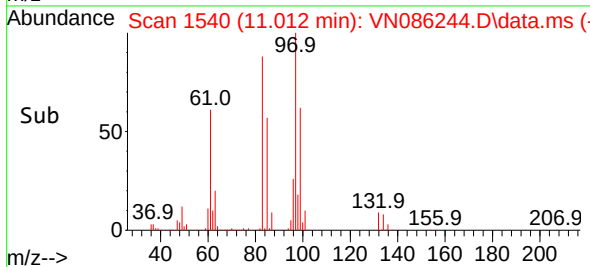
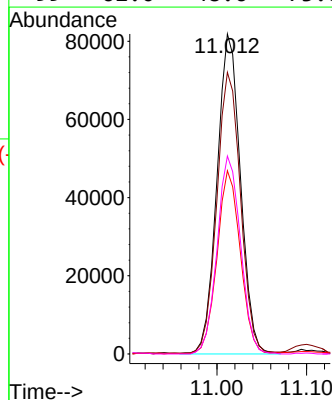
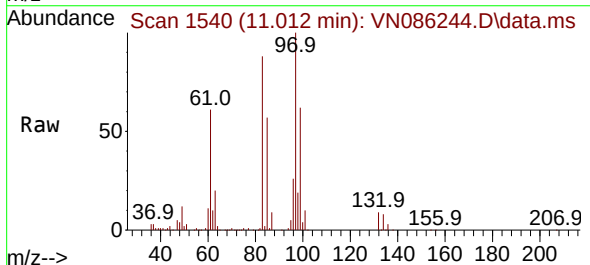
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

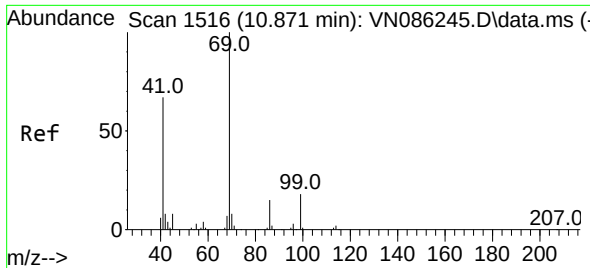
Tgt Ion: 75 Resp: 277506
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.0 37.4
 39 48.8 36.7 55.1



#50
 1,1,2-Trichloroethane
 Concen: 54.493 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

Tgt Ion: 97 Resp: 149001
 Ion Ratio Lower Upper
 97 100
 83 88.0 68.6 103.0
 85 57.2 45.9 68.9
 99 62.0 48.6 73.0

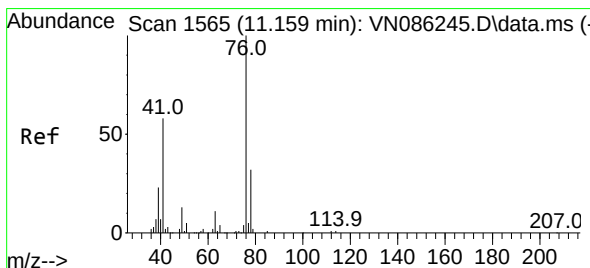
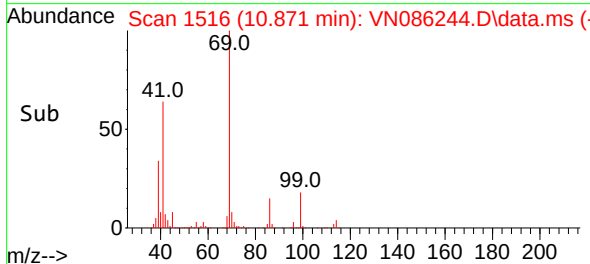
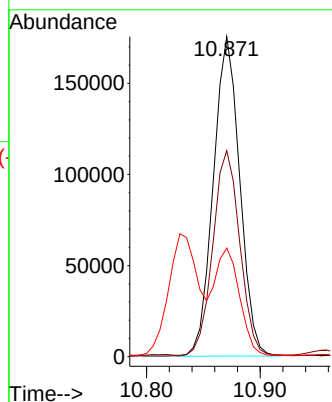
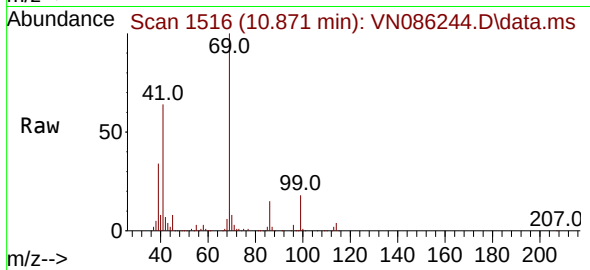




#51
Ethyl methacrylate
Concen: 55.717 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

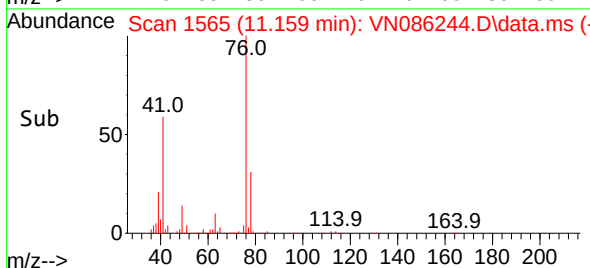
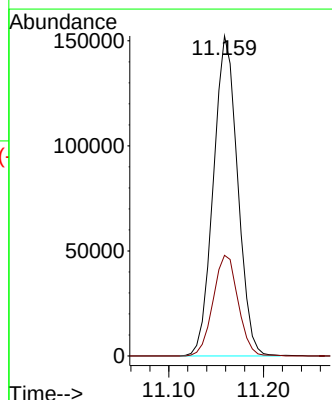
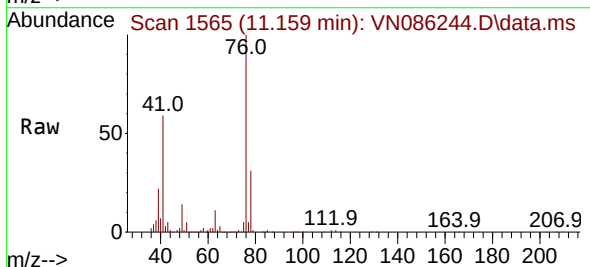
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

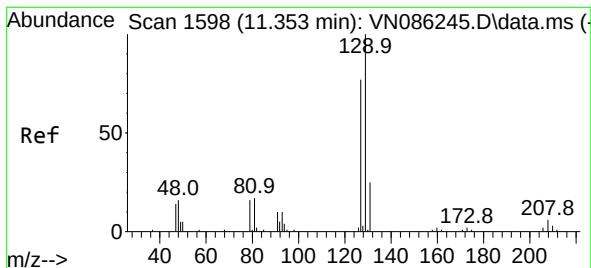
Tgt Ion: 69 Resp: 283112
Ion Ratio Lower Upper
69 100
41 64.1 33.6 100.6
39 33.6 17.8 53.4



#52
1,3-Dichloropropane
Concen: 55.609 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 76 Resp: 271010
Ion Ratio Lower Upper
76 100
78 32.4 0.0 64.6





#53

Dibromochloromethane

Concen: 55.616 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

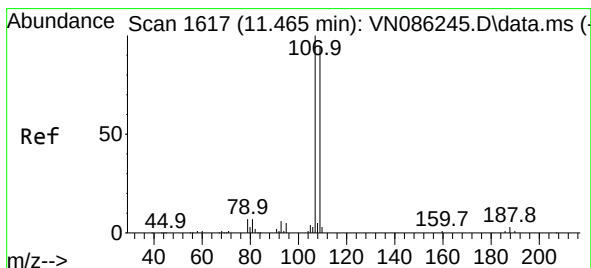
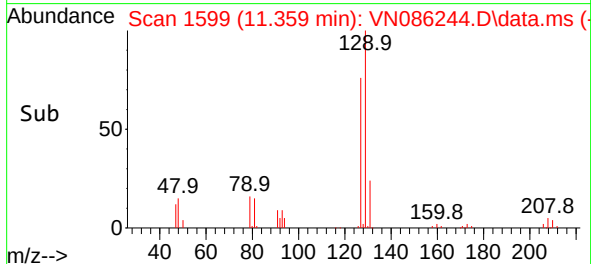
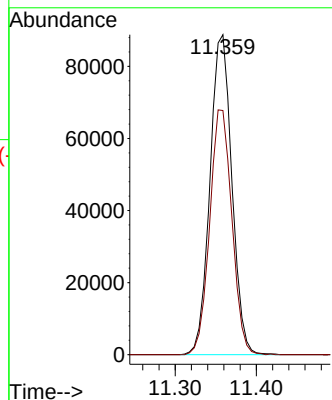
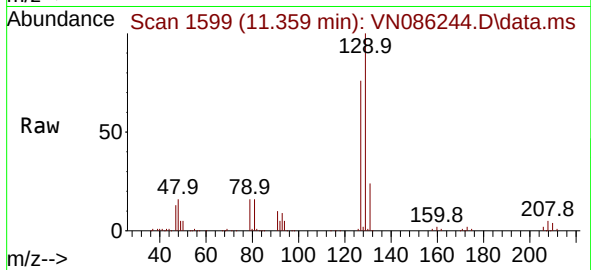
VSTDICC050

Tgt Ion:129 Resp: 166341

Ion Ratio Lower Upper

129 100

127 77.4 38.5 115.5



#54

1,2-Dibromoethane

Concen: 55.141 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN086244.D

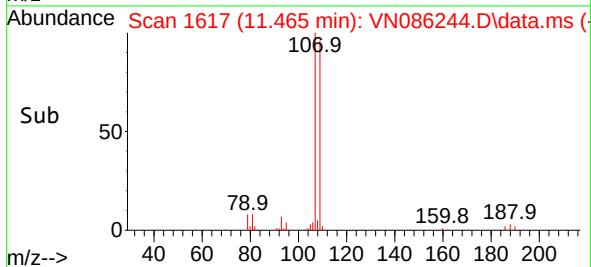
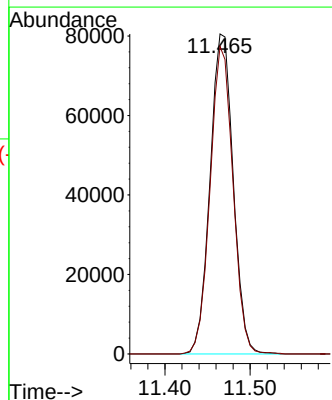
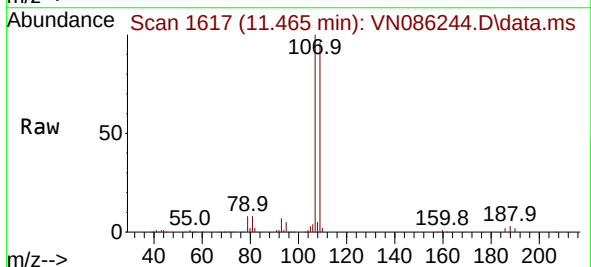
Acq: 11 Apr 2025 11:52

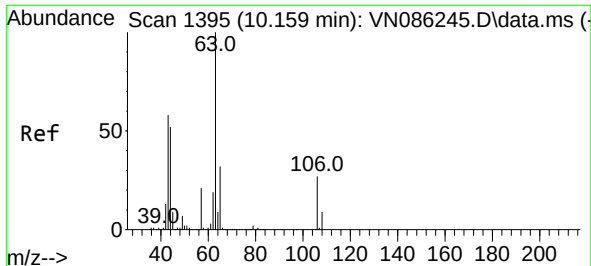
Tgt Ion:107 Resp: 152197

Ion Ratio Lower Upper

107 100

109 94.4 75.2 112.8

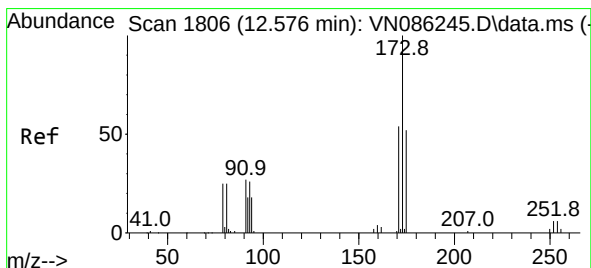
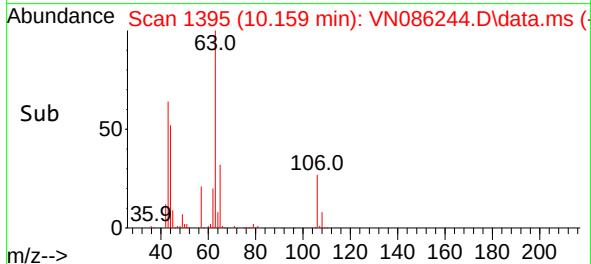
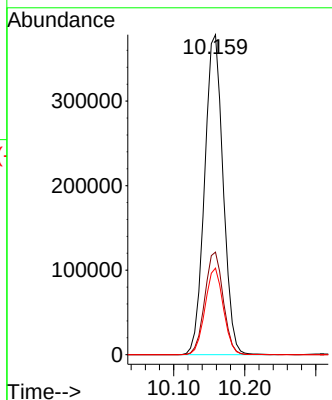
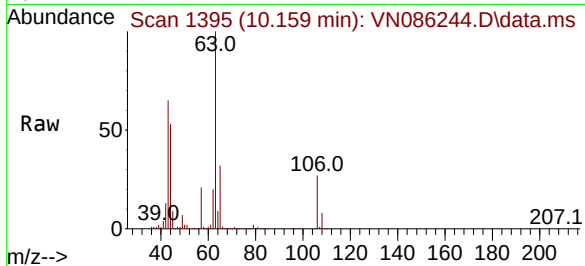




#55
2-Chloroethyl vinyl ether
Concen: 357.238 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

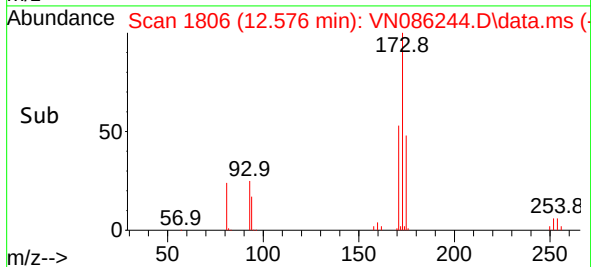
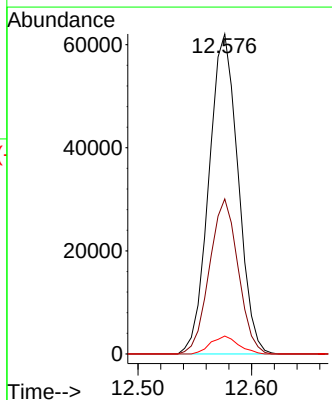
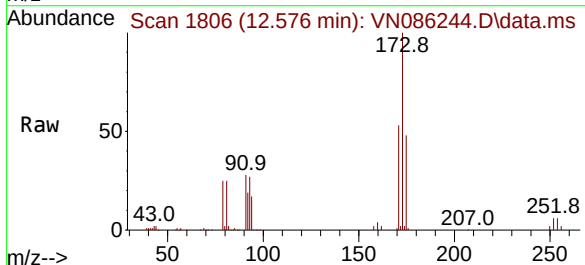
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

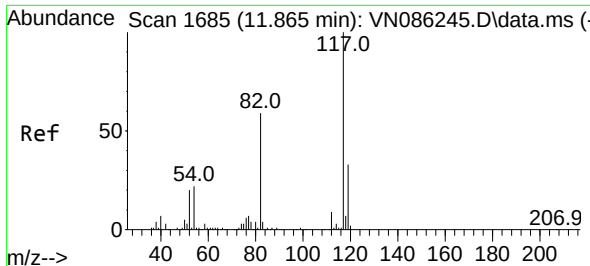
Tgt Ion: 63 Resp: 685916
Ion Ratio Lower Upper
63 100
65 31.9 25.8 38.8
106 26.7 21.8 32.8



#56
Bromoform
Concen: 56.534 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:173 Resp: 110623
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.4
254 5.3 4.5 6.7

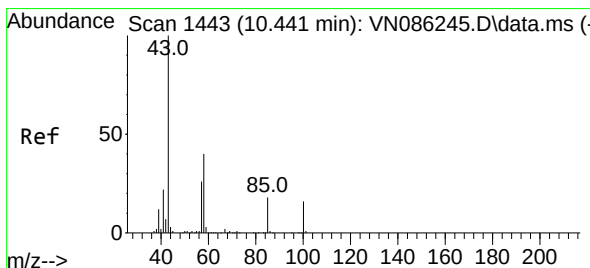
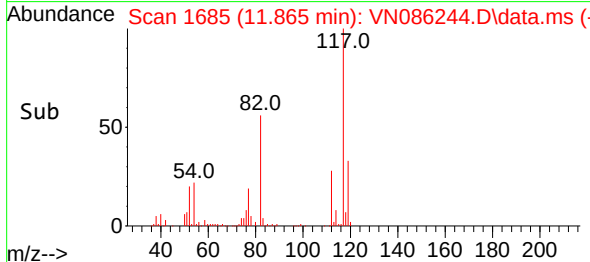
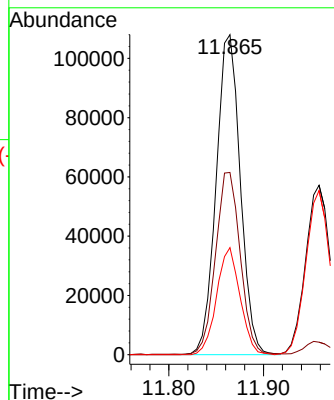
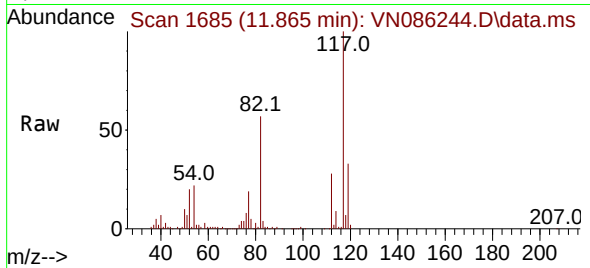




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

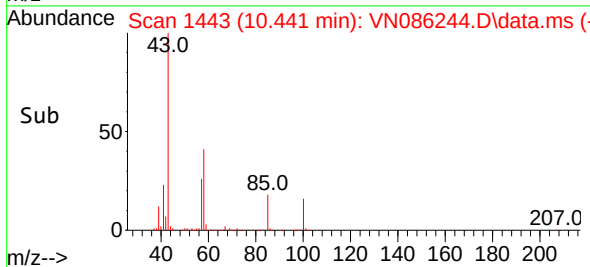
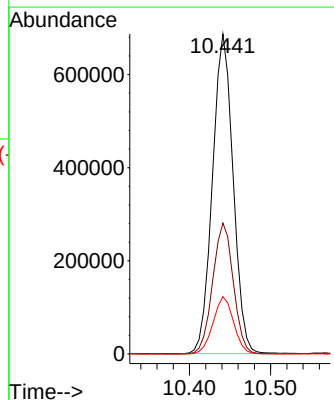
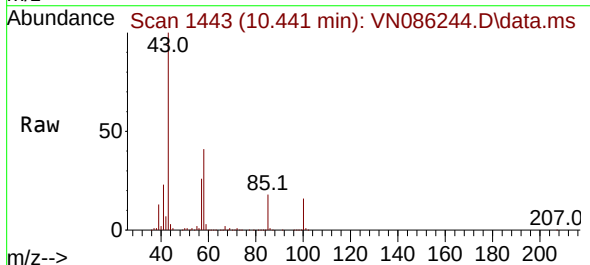
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

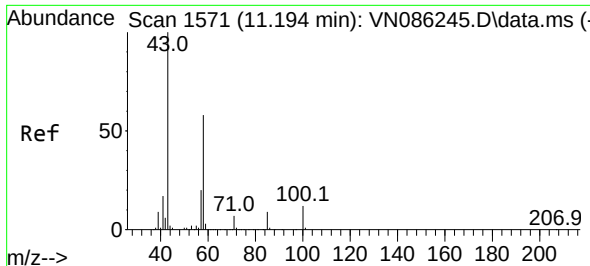
Tgt Ion:117 Resp: 191848
Ion Ratio Lower Upper
117 100
82 58.1 47.3 70.9
119 32.4 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 278.421 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 1212140
Ion Ratio Lower Upper
43 100
58 41.0 32.5 48.7
85 17.8 14.4 21.6

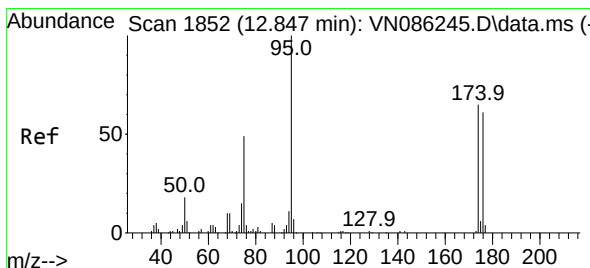
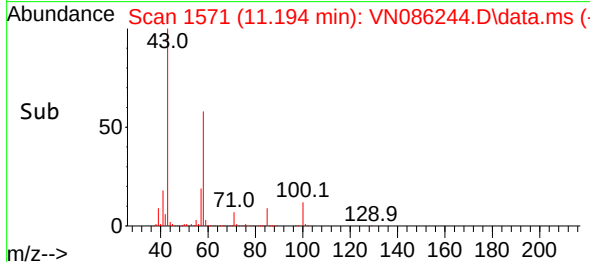
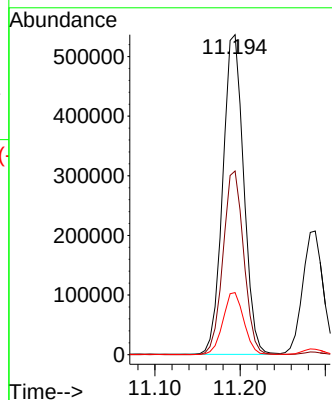
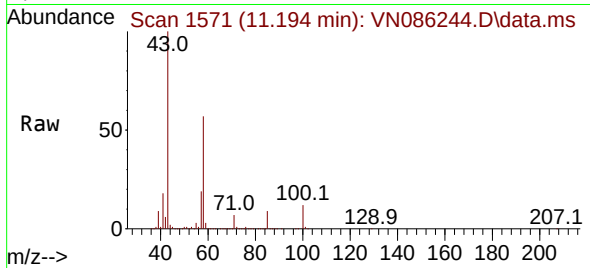




#59
2-Hexanone
Concen: 281.386 ug/l
RT: 11.194 min Scan# 1119
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

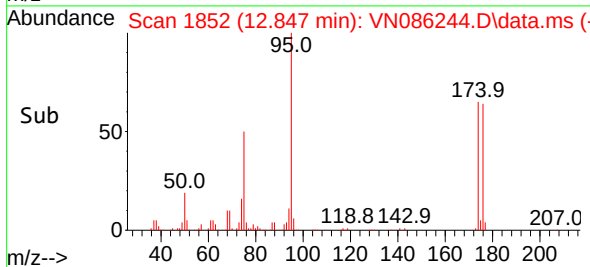
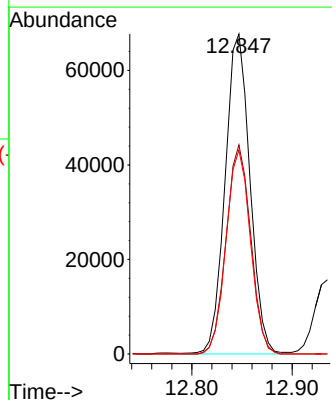
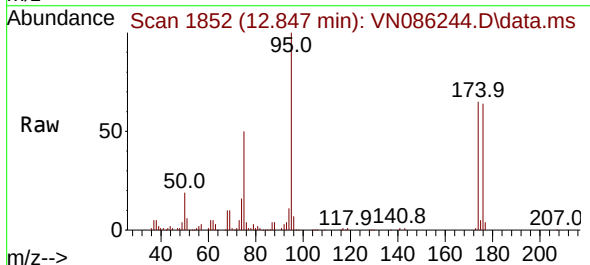
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

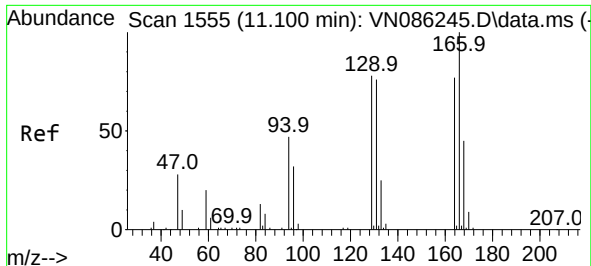
Tgt Ion: 43 Resp: 912206
Ion Ratio Lower Upper
43 100
58 57.0 45.3 67.9
57 19.4 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 30.469 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 95 Resp: 116379
Ion Ratio Lower Upper
95 100
174 64.5 52.7 79.1
176 62.7 49.8 74.8

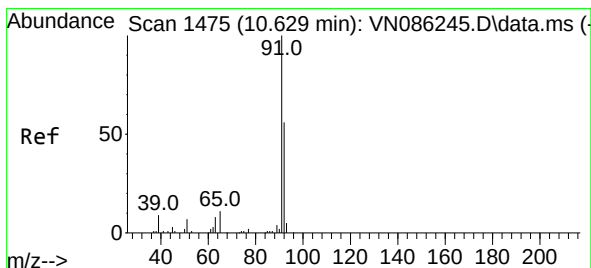
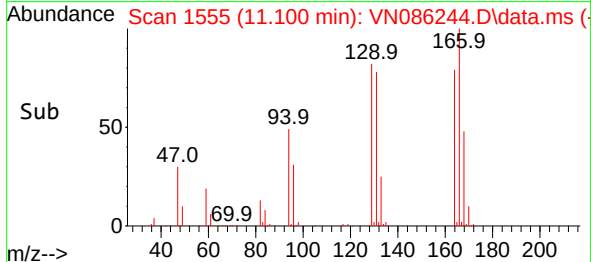
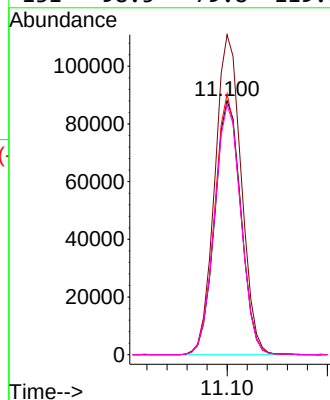
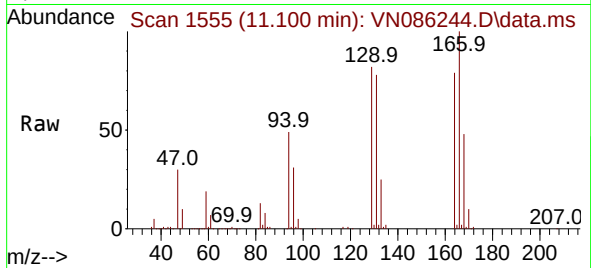




#61
Tetrachloroethene
Concen: 56.555 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

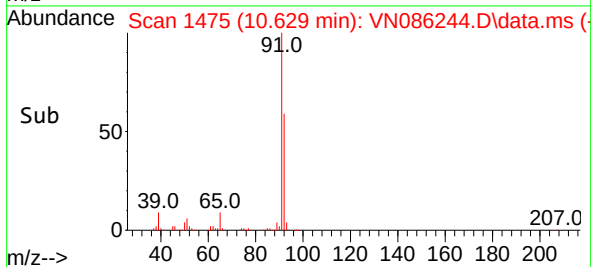
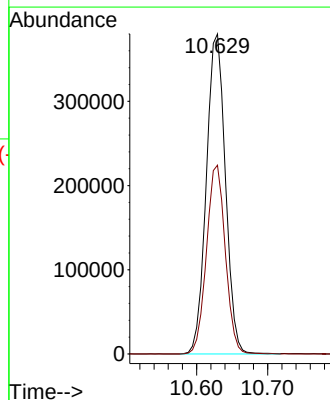
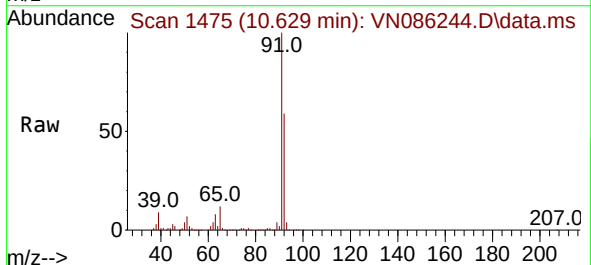
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

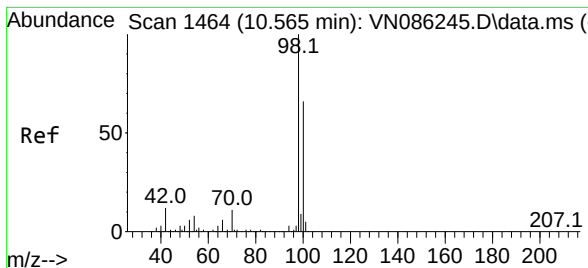
Tgt Ion:164 Resp: 160227
Ion Ratio Lower Upper
164 100
166 126.0 104.5 156.7
129 102.7 81.7 122.5
131 98.5 79.8 119.6



#62
Toluene
Concen: 55.140 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 91 Resp: 709533
Ion Ratio Lower Upper
91 100
92 58.3 46.8 70.2





#63

Toluene-d8

Concen: 29.660 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

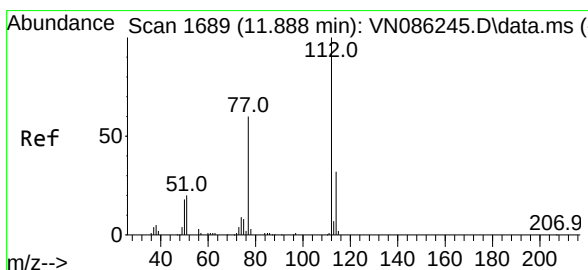
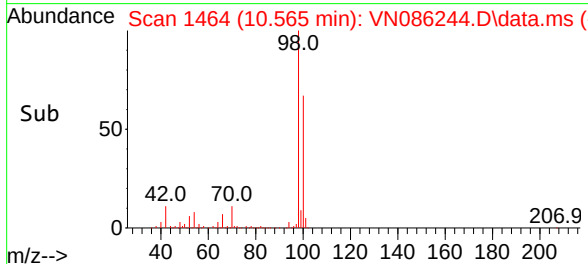
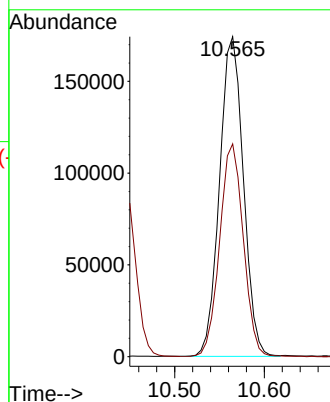
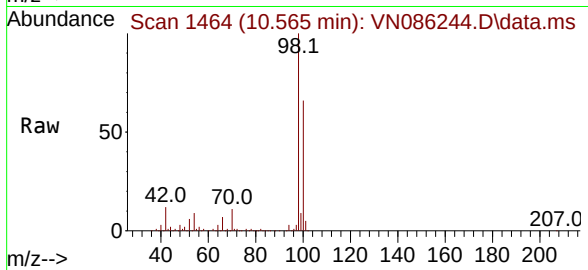
VSTDIC050

Tgt Ion: 98 Resp: 321243

Ion Ratio Lower Upper

98 100

100 66.1 52.3 78.5



#64

Chlorobenzene

Concen: 55.211 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN086244.D

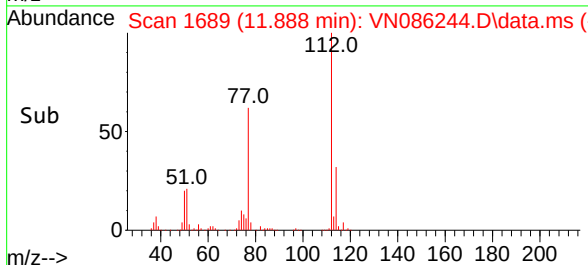
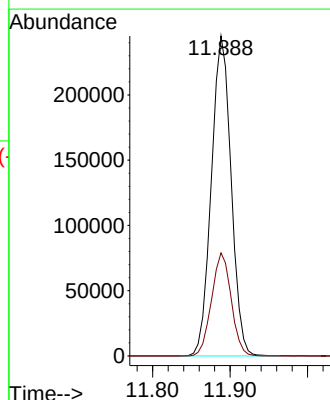
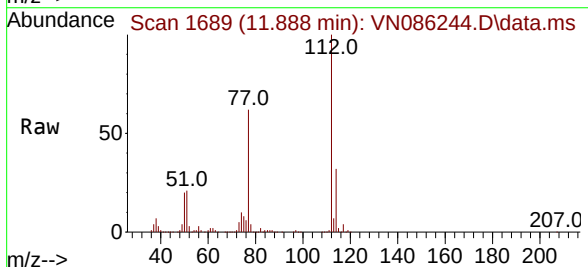
Acq: 11 Apr 2025 11:52

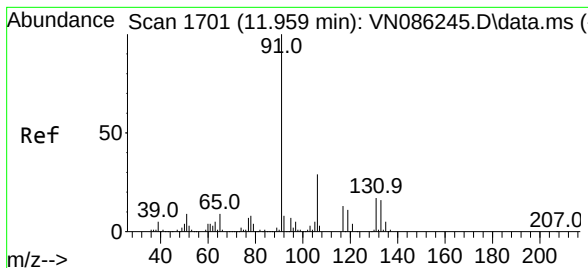
Tgt Ion: 112 Resp: 434051

Ion Ratio Lower Upper

112 100

114 32.2 25.8 38.6

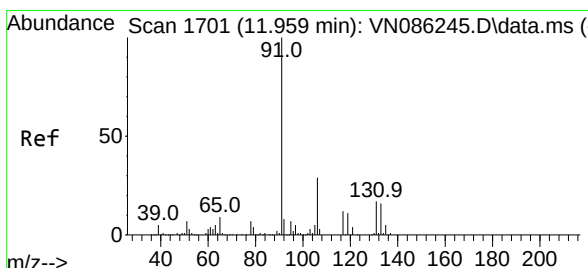
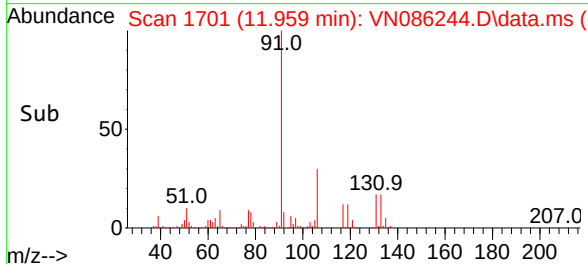
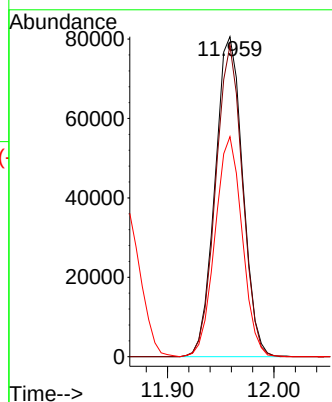
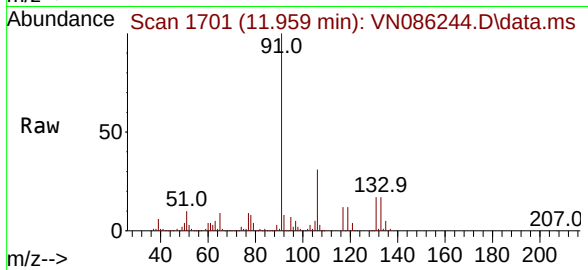




#65
 1,1,1,2-Tetrachloroethane
 Concen: 56.068 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

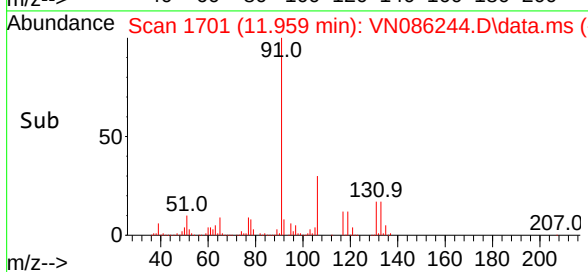
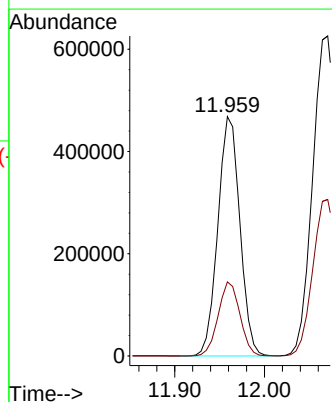
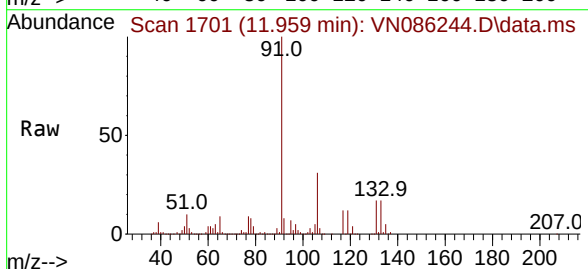
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

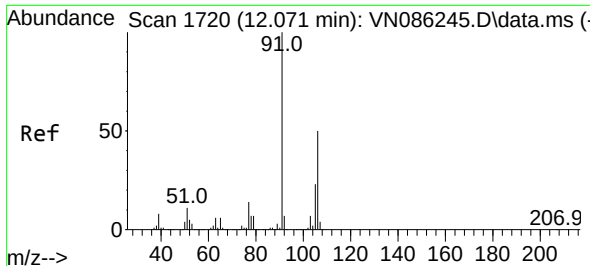
Tgt Ion:131 Resp: 145468
 Ion Ratio Lower Upper
 131 100
 133 94.4 0.0 190.4
 119 67.5 0.0 135.6



#66
 Ethyl Benzene
 Concen: 55.917 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN086244.D
 Acq: 11 Apr 2025 11:52

Tgt Ion: 91 Resp: 797966
 Ion Ratio Lower Upper
 91 100
 106 30.9 23.4 35.0

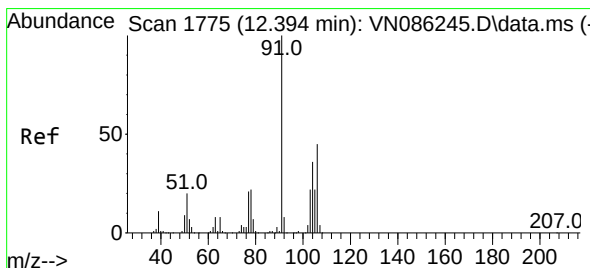
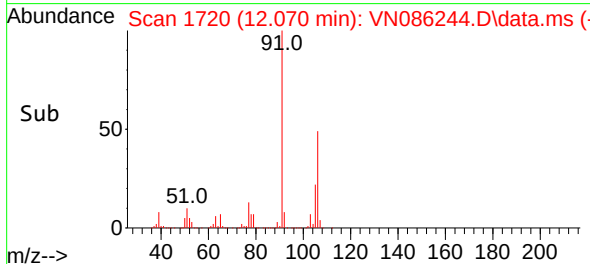
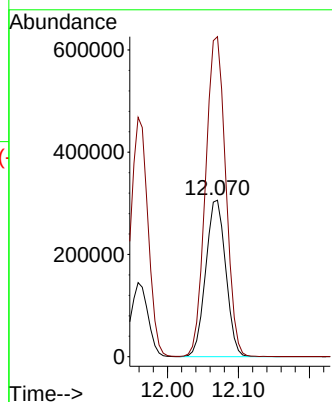
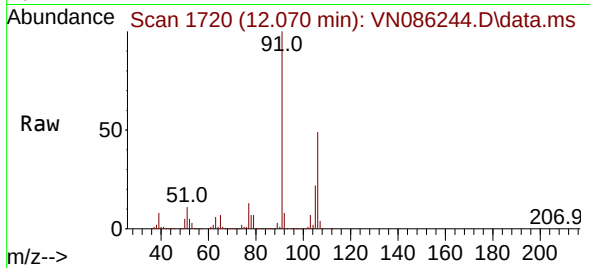




#67
m/p-Xylenes
Concen: 113.164 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

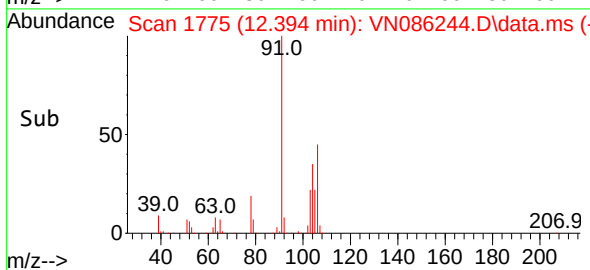
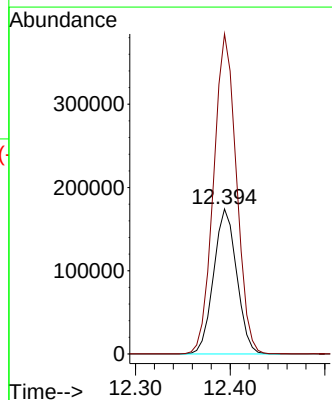
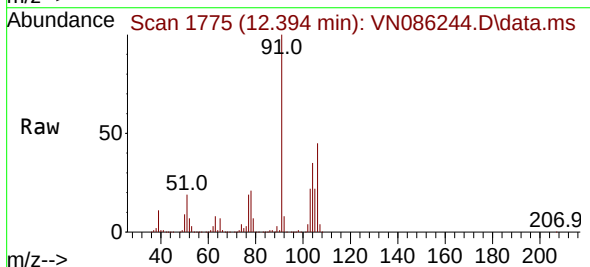
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

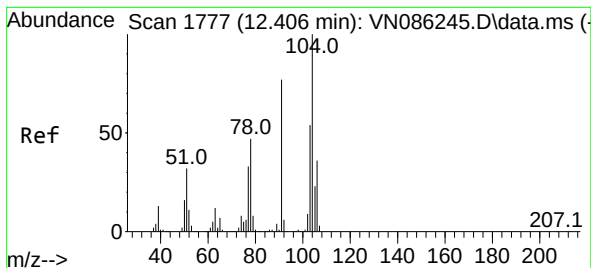
Tgt Ion:106 Resp: 600484
Ion Ratio Lower Upper
106 100
91 205.7 164.5 246.7



#68
o-Xylene
Concen: 56.428 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:106 Resp: 294512
Ion Ratio Lower Upper
106 100
91 218.4 109.8 329.4





#69

Styrene

Concen: 56.790 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

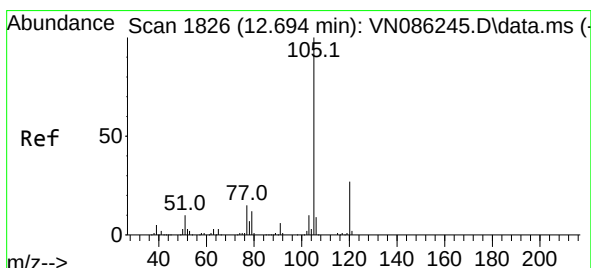
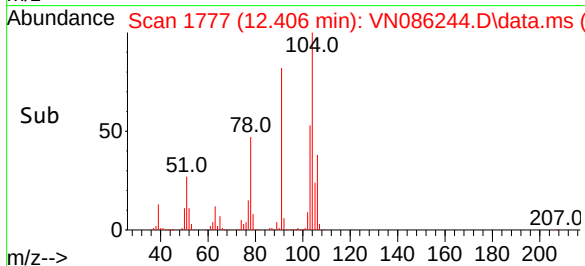
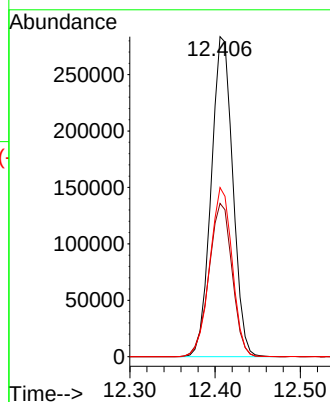
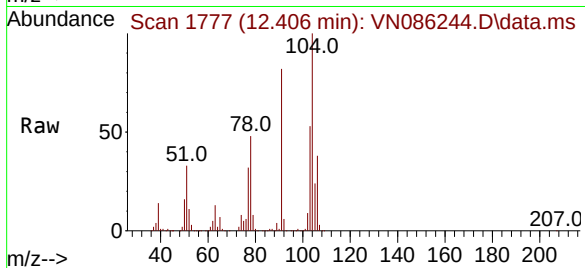
Tgt Ion:104 Resp: 499886

Ion Ratio Lower Upper

104 100

78 51.3 41.4 62.0

103 54.8 44.2 66.4



#70

Isopropylbenzene

Concen: 56.511 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086244.D

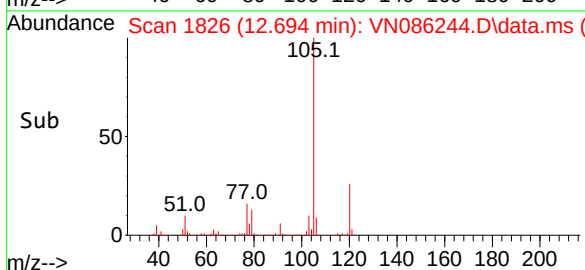
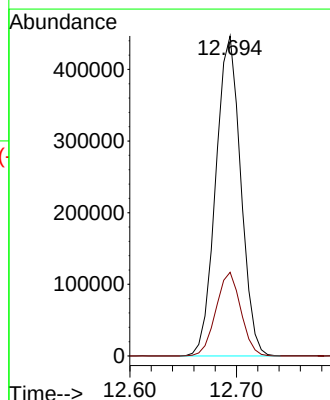
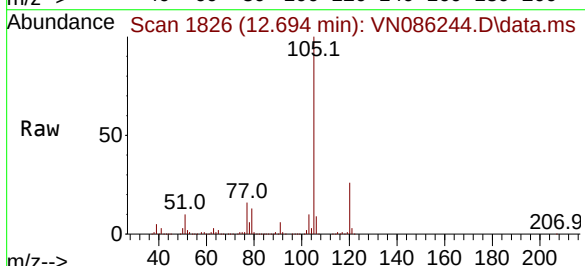
Acq: 11 Apr 2025 11:52

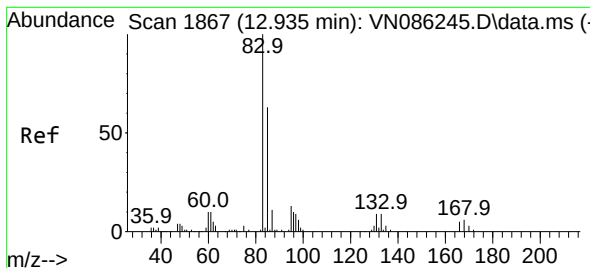
Tgt Ion:105 Resp: 727241

Ion Ratio Lower Upper

105 100

120 26.0 18.3 34.1





#71

1,1,2,2-Tetrachloroethane

Concen: 53.052 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

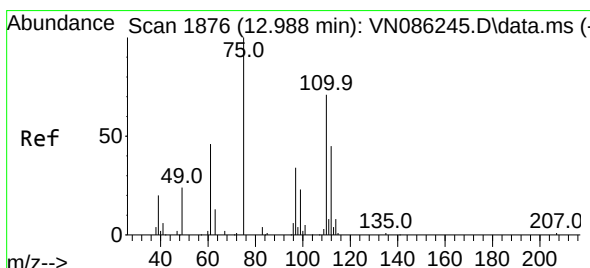
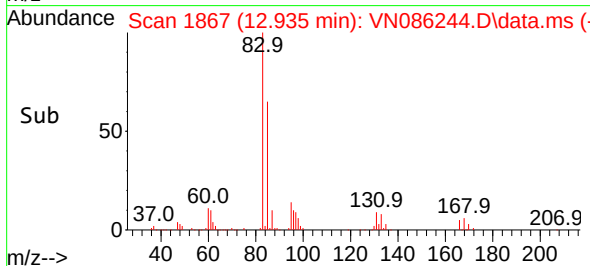
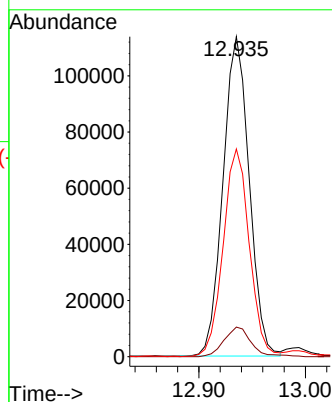
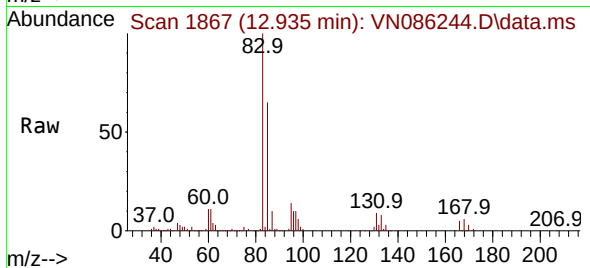
Tgt Ion: 83 Resp: 194327

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

85 65.0 32.3 96.8



#72

1,2,3-Trichloropropane

Concen: 61.048 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. -0.000 min

Lab File: VN086244.D

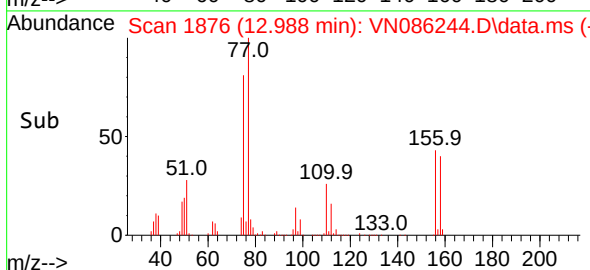
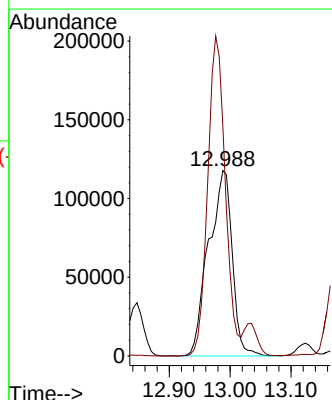
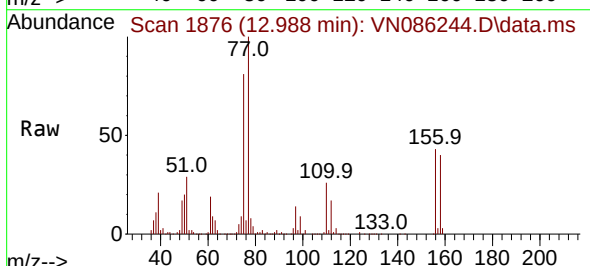
Acq: 11 Apr 2025 11:52

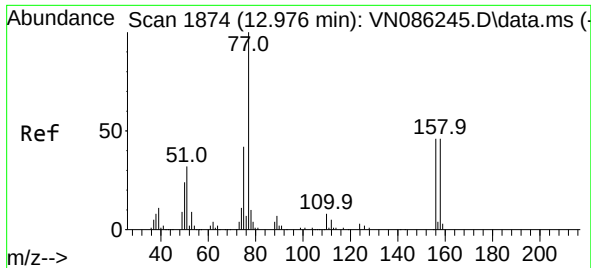
Tgt Ion: 75 Resp: 316585

Ion Ratio Lower Upper

75 100

77 129.2 0.0 380.0

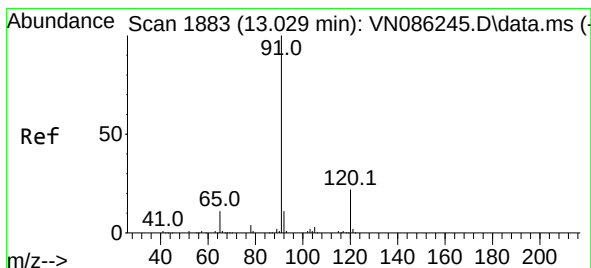
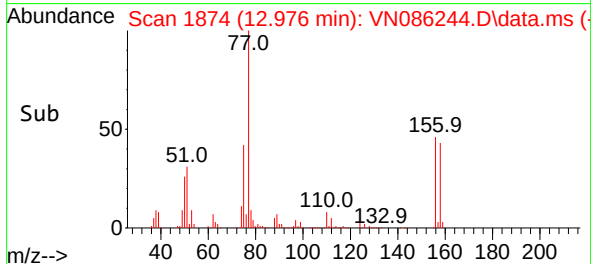
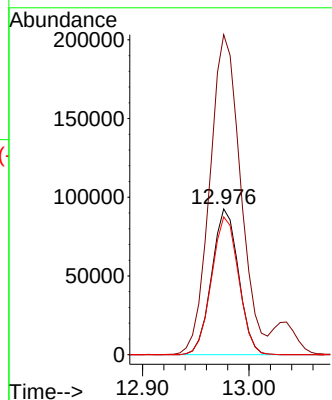
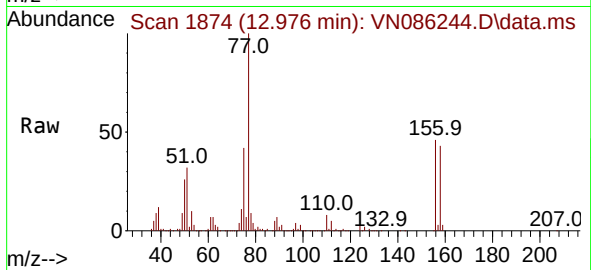




#73
Bromobenzene
Concen: 56.588 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

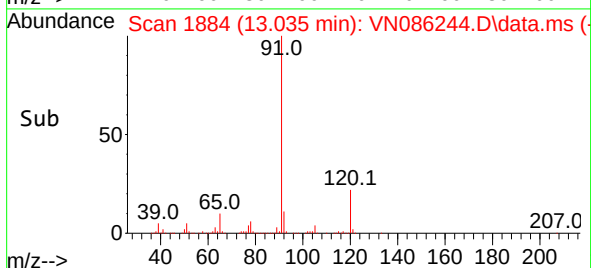
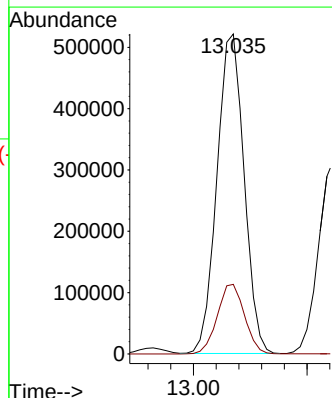
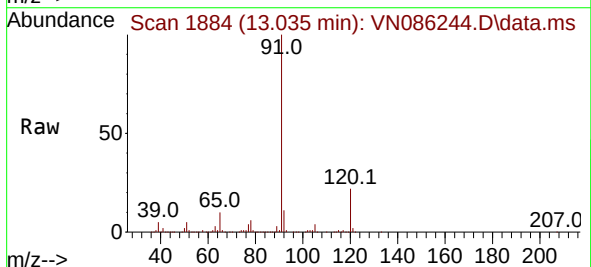
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

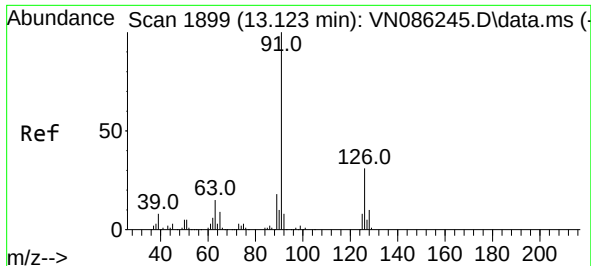
Tgt Ion:156 Resp: 161325
Ion Ratio Lower Upper
156 100
77 253.4 0.0 505.2
158 95.7 0.0 195.0



#74
n-propylbenzene
Concen: 56.817 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 91 Resp: 865912
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0

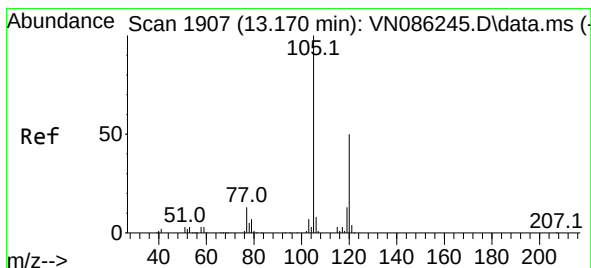
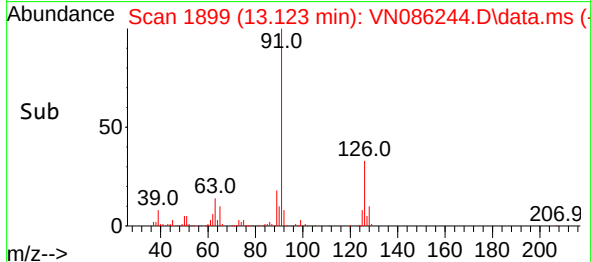
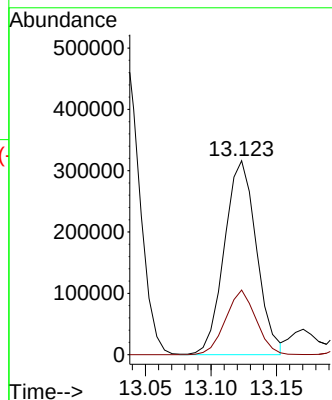
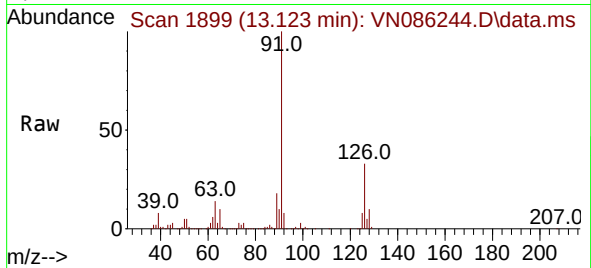




#75
2-Chlorotoluene
Concen: 56.468 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

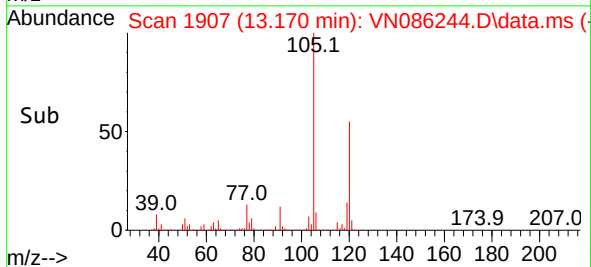
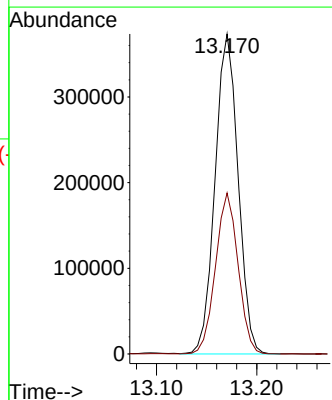
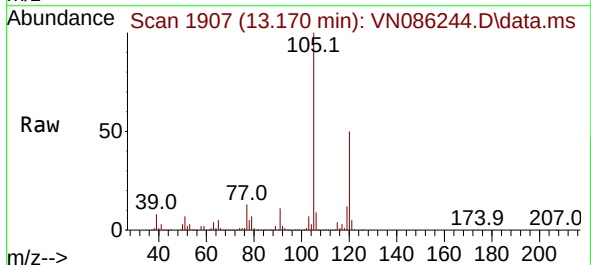
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

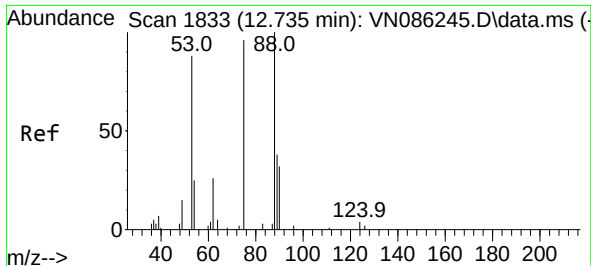
Tgt Ion: 91 Resp: 539350
Ion Ratio Lower Upper
91 100
126 31.5 0.0 63.4



#76
1,3,5-Trimethylbenzene
Concen: 56.398 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 105 Resp: 596201
Ion Ratio Lower Upper
105 100
120 49.3 0.0 98.0

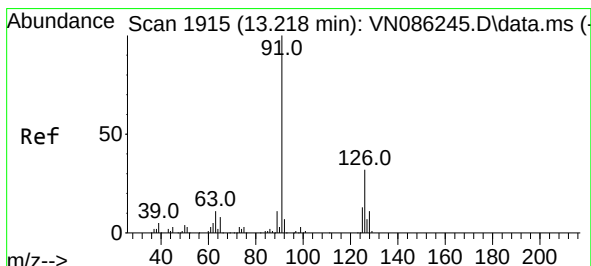
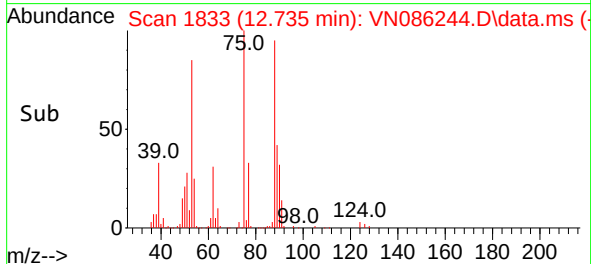
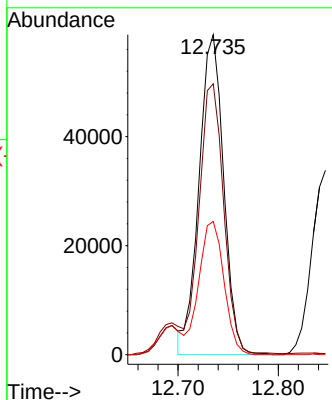
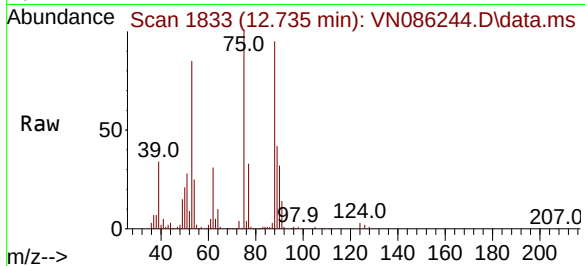




#77
t-1,4-Dichloro-2-butene
Concen: 56.970 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

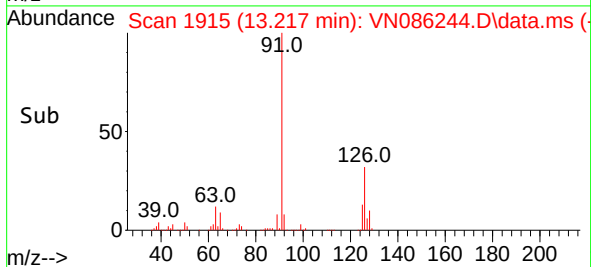
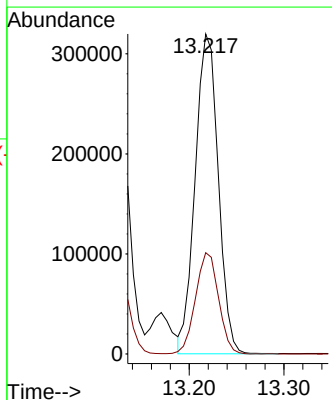
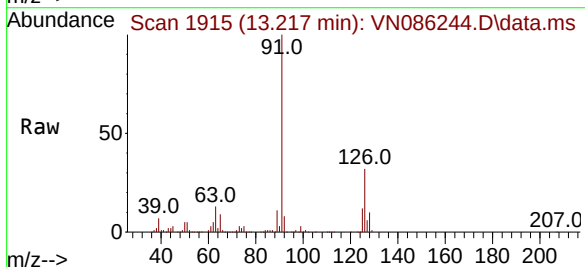
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

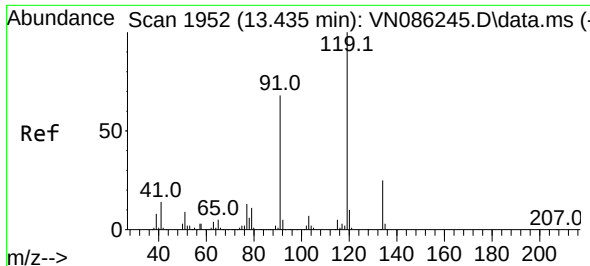
Tgt Ion: 75 Resp: 100158
Ion Ratio Lower Upper
75 100
53 84.3 46.4 139.2
89 41.7 22.5 67.5



#78
4-Chlorotoluene
Concen: 56.787 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 91 Resp: 541691
Ion Ratio Lower Upper
91 100
126 31.6 0.0 63.2

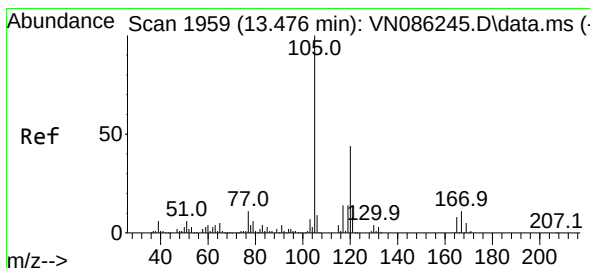
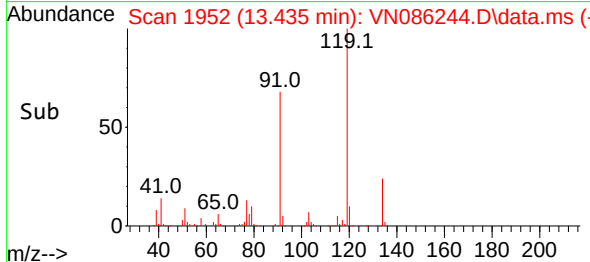
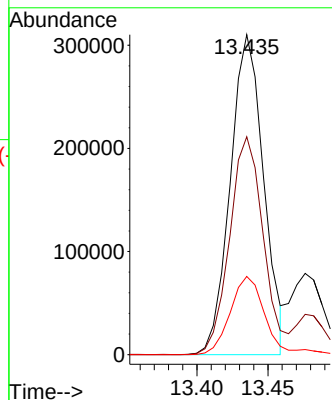
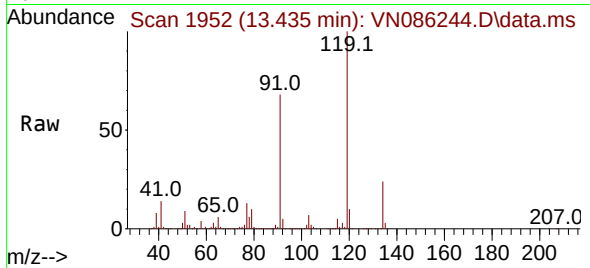




#79
tert-butylbenzene
Concen: 55.374 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

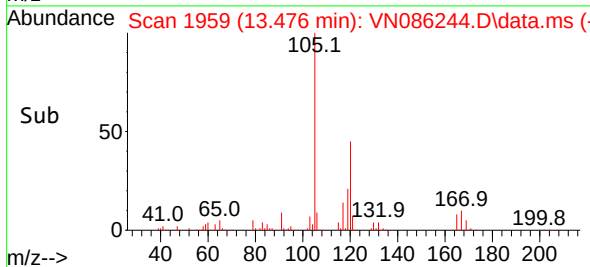
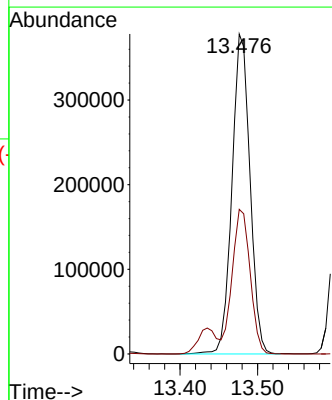
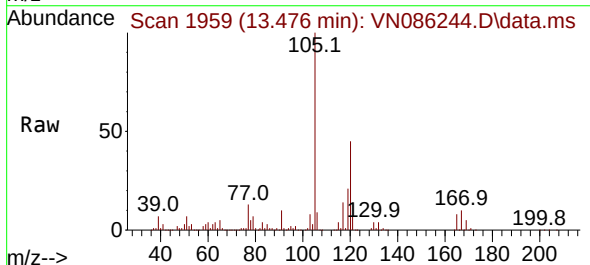
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

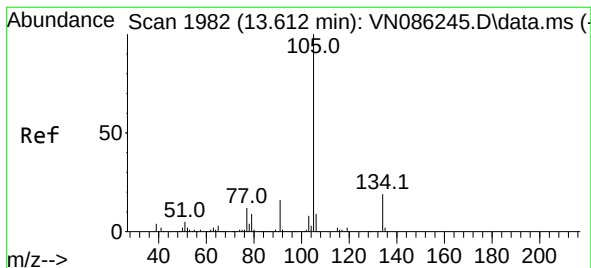
Tgt Ion:119 Resp: 506518
Ion Ratio Lower Upper
119 100
91 69.1 0.0 136.6
134 24.6 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 57.035 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:105 Resp: 611389
Ion Ratio Lower Upper
105 100
120 45.1 0.0 91.0





#81

sec-Butylbenzene

Concen: 55.977 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

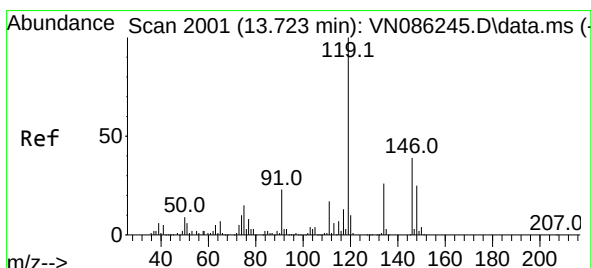
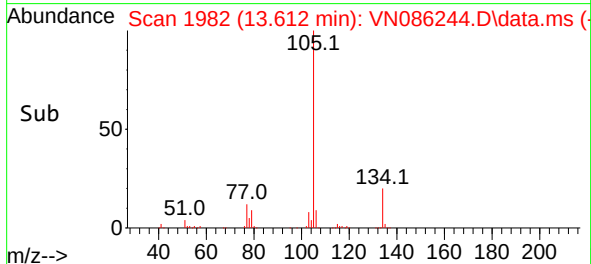
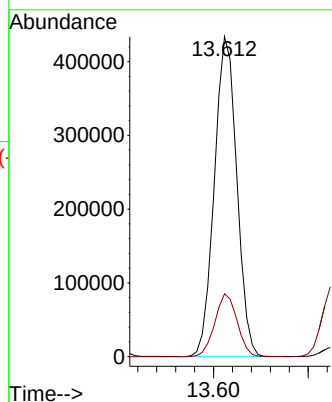
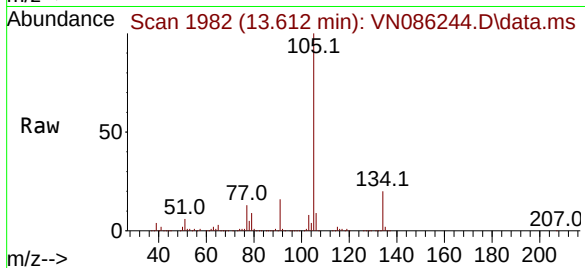
VSTDIC050

Tgt Ion:105 Resp: 714247

Ion Ratio Lower Upper

105 100

134 19.5 0.0 38.6



#82

p-Isopropyltoluene

Concen: 56.791 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

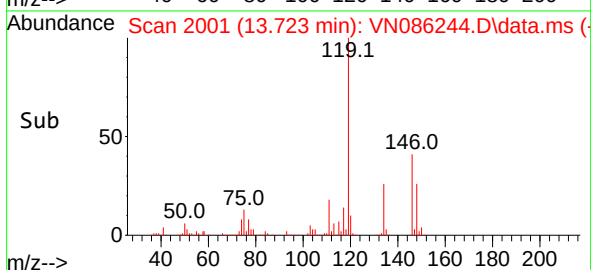
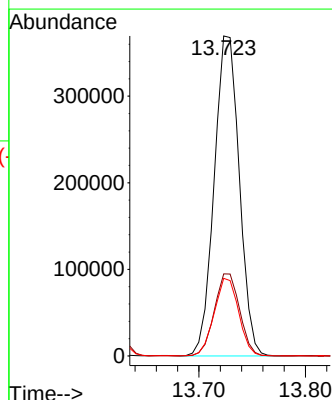
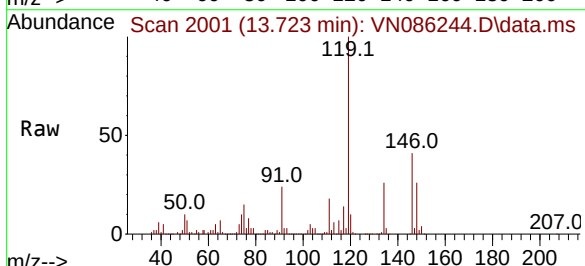
Tgt Ion:119 Resp: 604494

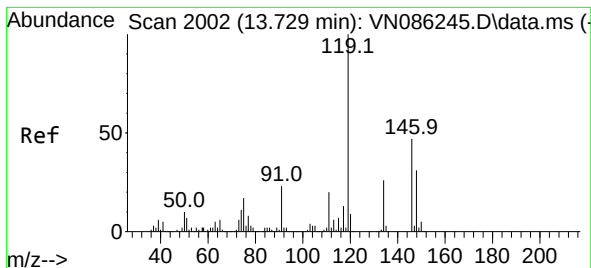
Ion Ratio Lower Upper

119 100

134 25.8 0.0 51.6

91 23.6 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 57.795 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

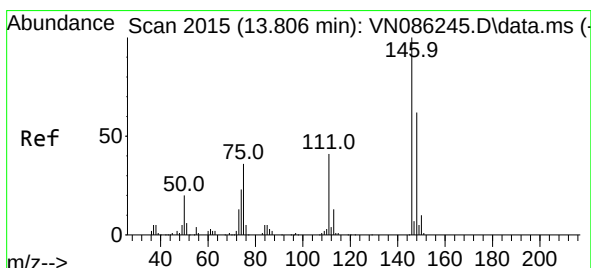
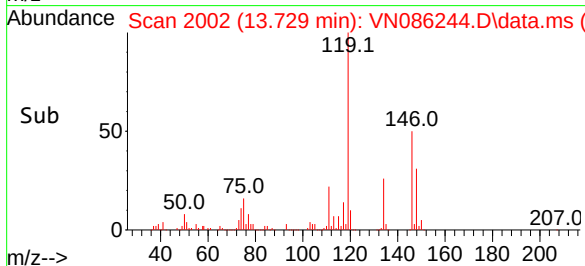
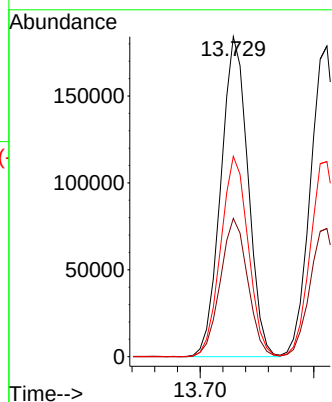
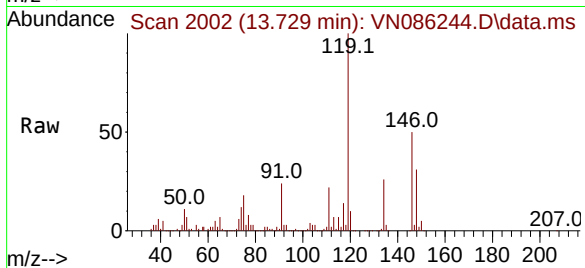
Tgt Ion:146 Resp: 306241

Ion Ratio Lower Upper

146 100

111 43.6 21.7 65.1

148 63.2 32.3 96.8



#84

1,4-Dichlorobenzene

Concen: 57.117 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

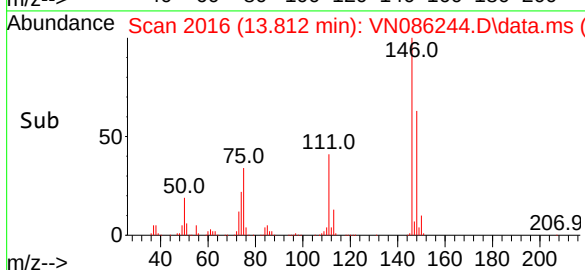
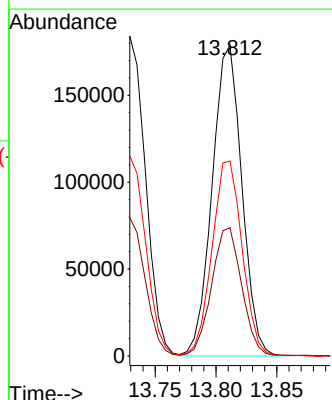
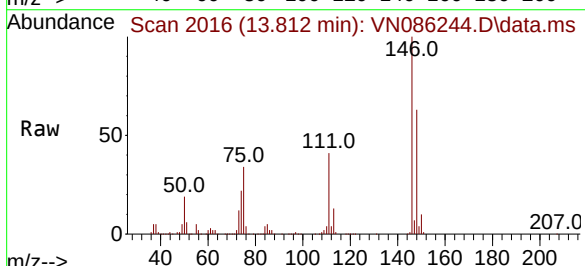
Tgt Ion:146 Resp: 303615

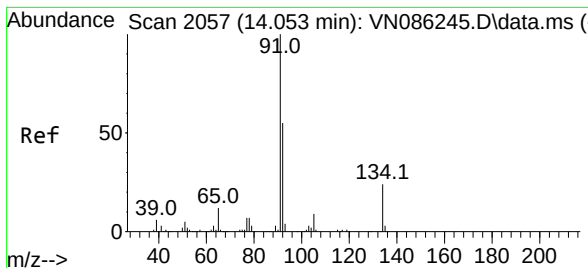
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.7 31.9 95.5





#85

n-Butylbenzene

Concen: 55.917 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

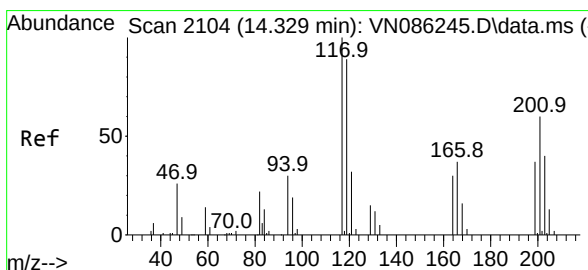
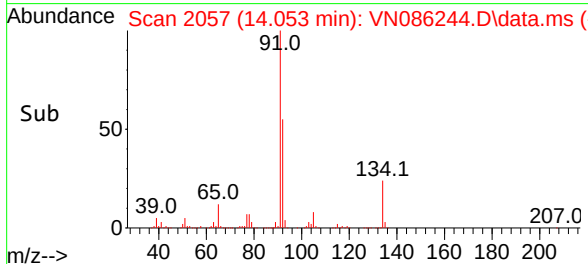
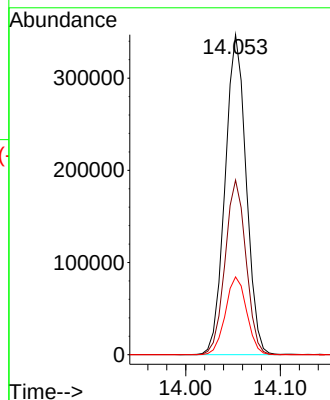
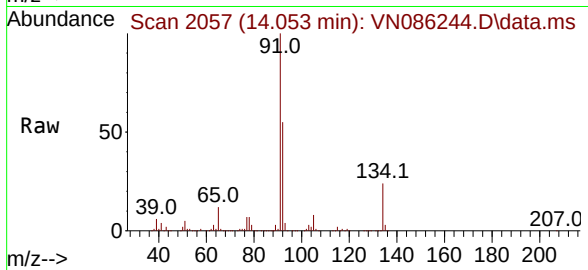
Tgt Ion: 91 Resp: 536941

Ion Ratio Lower Upper

91 100

92 54.0 0.0 109.4

134 24.5 0.0 48.2



#86

Hexachloroethane

Concen: 56.854 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086244.D

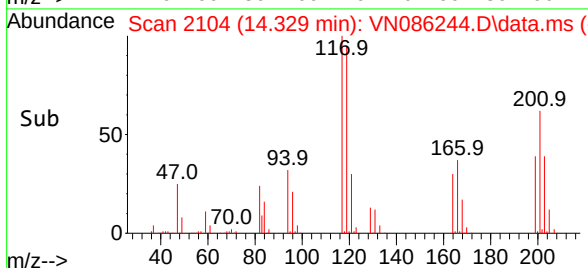
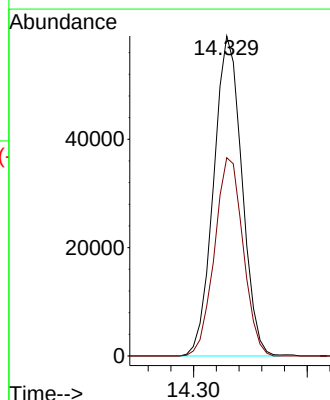
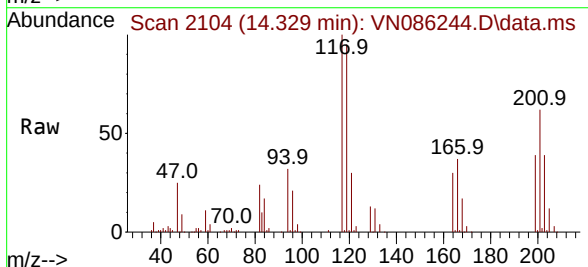
Acq: 11 Apr 2025 11:52

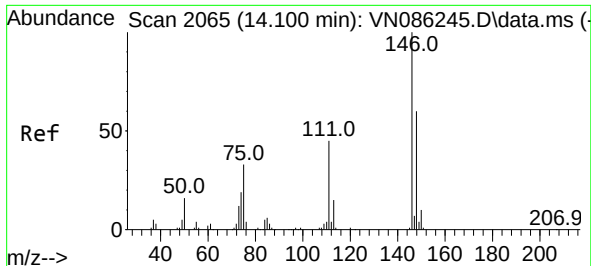
Tgt Ion: 117 Resp: 102084

Ion Ratio Lower Upper

117 100

201 62.6 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 57.607 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

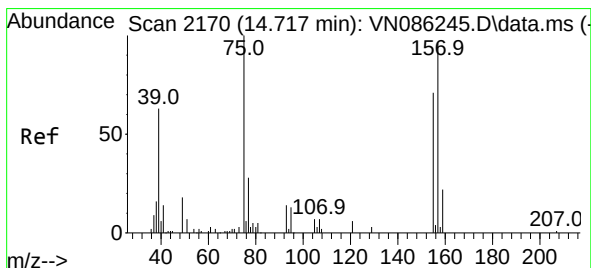
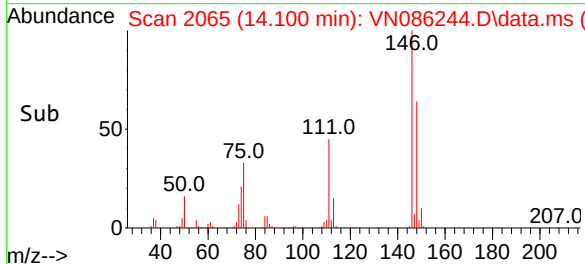
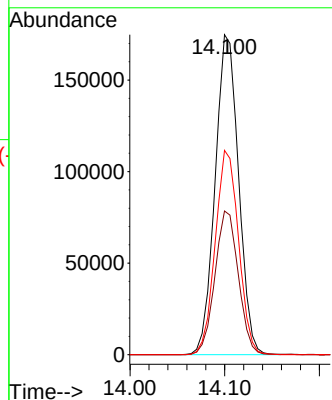
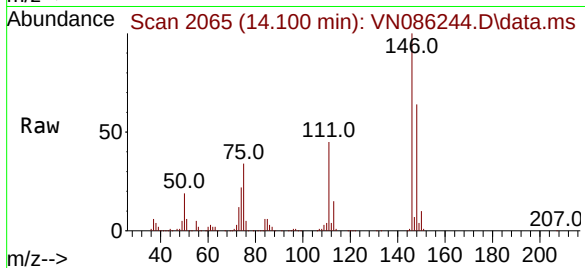
Tgt Ion:146 Resp: 301390

Ion Ratio Lower Upper

146 100

111 44.9 22.7 68.0

148 63.4 31.8 95.3



#88

1,2-Dibromo-3-Chloropropane

Concen: 56.890 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

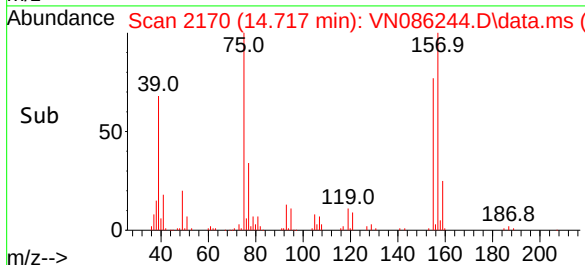
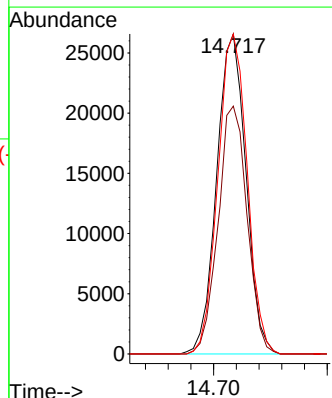
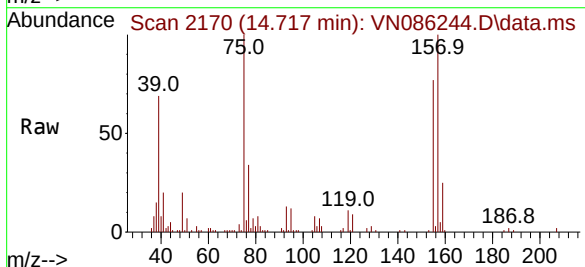
Tgt Ion: 75 Resp: 47464

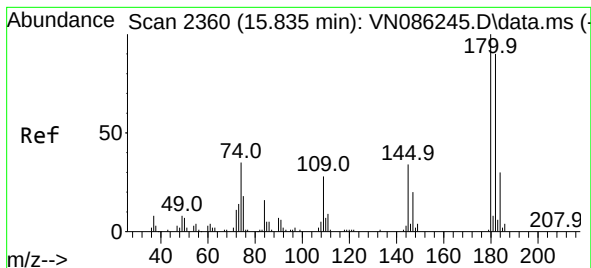
Ion Ratio Lower Upper

75 100

155 76.8 60.3 90.5

157 99.9 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 55.103 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

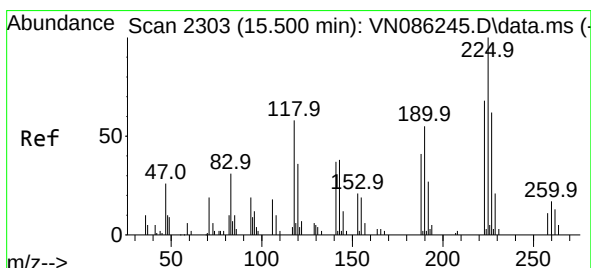
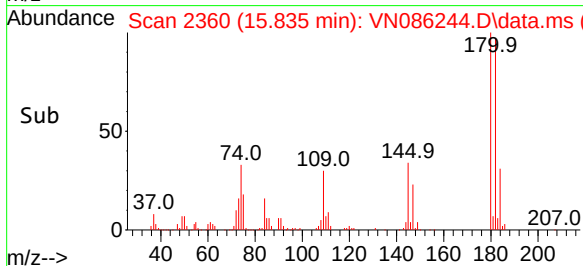
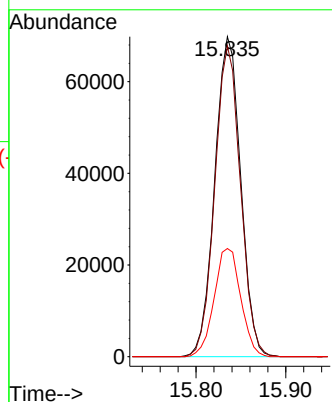
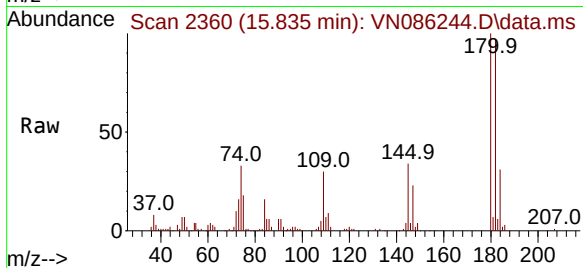
Tgt Ion:180 Resp: 140271

Ion Ratio Lower Upper

180 100

182 95.8 75.1 112.7

145 34.6 27.1 40.7



#90

Hexachlorobutadiene

Concen: 51.165 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

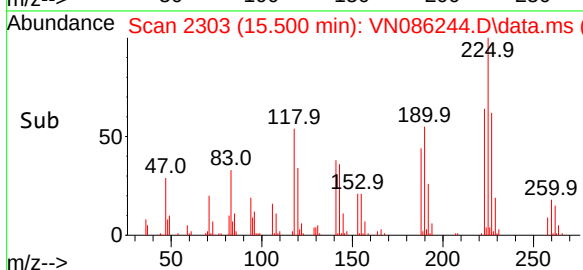
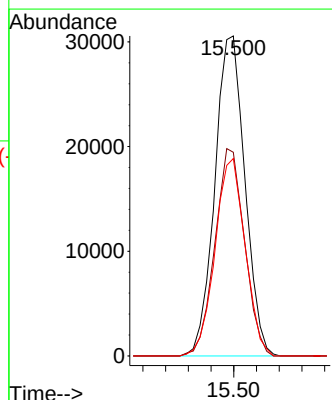
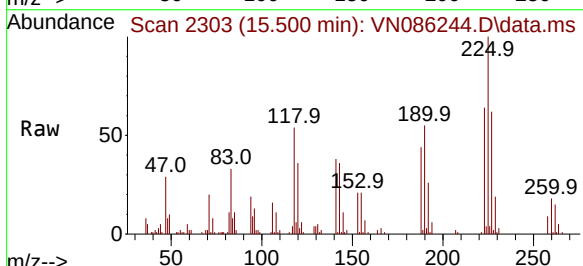
Tgt Ion:225 Resp: 56236

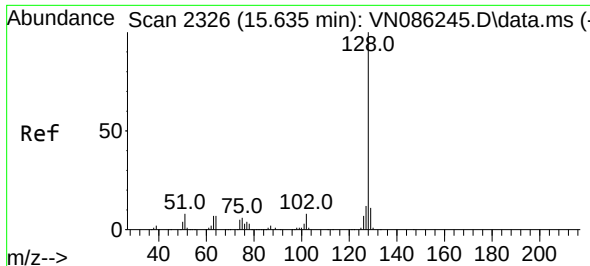
Ion Ratio Lower Upper

225 100

223 63.7 0.0 130.0

227 61.6 0.0 123.2

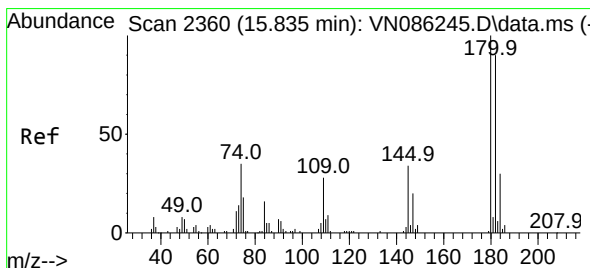
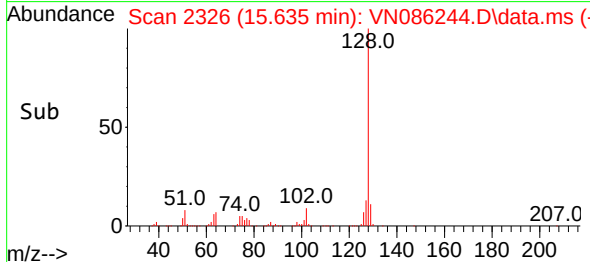
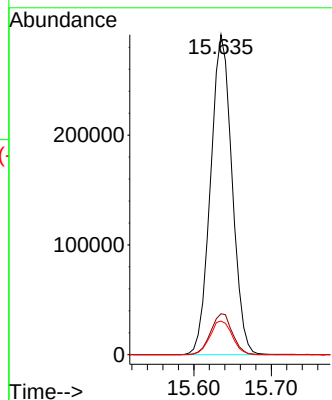
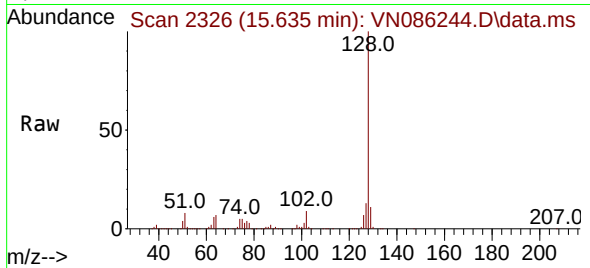




#91
Naphthalene
Concen: 55.953 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

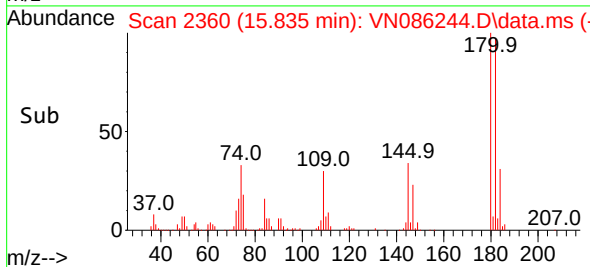
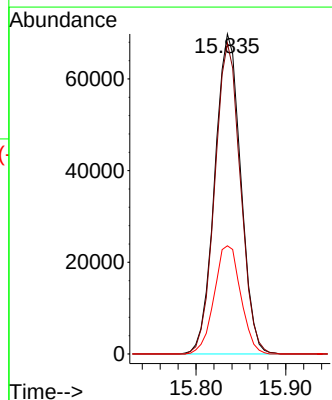
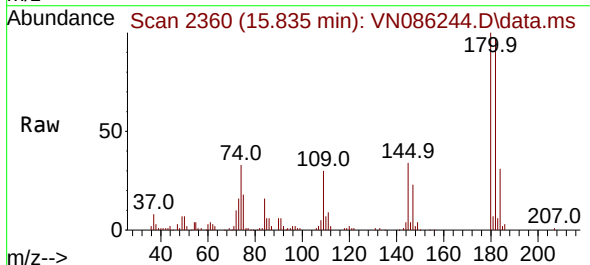
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion:128 Resp: 561578
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.9 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 55.103 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:180 Resp: 140271
Ion Ratio Lower Upper
180 100
182 95.8 0.0 187.8
145 34.6 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30974	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185020	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	89958	29.776	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.267%
60) 4-Bromofluorobenzene	12.847	95	97314	29.820	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.400%
63) Toluene-d8	10.565	98	281589	30.431	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.433%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	48008	19.345	ug/l	100
3) Chloromethane	2.359	50	63879	18.624	ug/l	100
4) Vinyl Chloride	2.512	62	62095	19.006	ug/l	100
5) Bromomethane	2.965	94	30452	18.686	ug/l	100
6) Chloroethane	3.124	64	38415	18.620	ug/l	100
7) Trichlorofluoromethane	3.501	101	66215	18.683	ug/l	100
8) Diethyl Ether	3.959	74	30487	18.653	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41257	18.878	ug/l	100
10) 1,1-Dichloroethene	4.342	96	44299	18.782	ug/l	100
11) Methyl Iodide	4.589	142	50856	18.760	ug/l	100
12) Methyl Acetate	5.024	43	61331	18.414	ug/l	100
13) Acrolein	4.177	56	27873	73.623	ug/l	100
14) Acrylonitrile	5.718	53	132407	94.169	ug/l	100
15) Acetone	4.424	58	33967	95.196	ug/l	95
16) Carbon Disulfide	4.712	76	129547	19.155	ug/l	100
17) Allyl chloride	5.024	41	76657	18.648	ug/l	100
18) Methylene Chloride	5.277	84	49299	18.333	ug/l	100
19) trans-1,2-Dichloroethene	5.789	96	45854	21.553	ug/l	100
20) Diisopropyl ether	6.671	45	167099	18.905	ug/l	100
21) 1,1-Dichloroethane	6.565	63	89726	19.030	ug/l	100
22) cis-1,2-Dichloroethene	7.489	96	55538	18.766	ug/l	100
23) tert-Butyl Alcohol	5.512	59	56269	96.582	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	158818	18.690	ug/l	100
25) Chloroform	7.965	83	84511	18.796	ug/l	100
26) Cyclohexane	8.253	56	81442	18.462	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	63403	19.129	ug/l	100
30) 2-Butanone	7.483	43	178630	97.263	ug/l	100
31) 2,2-Dichloropropane	7.489	77	78733	19.298	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72230	18.945	ug/l	100
33) Carbon Tetrachloride	8.359	117	58240	19.114	ug/l	100
34) Benzene	8.606	78	201431	19.103	ug/l	100
35) Methacrylonitrile	7.777	41	39241	18.953	ug/l	100
36) 1,2-Dichloroethane	8.671	62	63104	19.124	ug/l	100
37) Trichloroethene	9.353	130	48886	19.215	ug/l	100
38) Methylcyclohexane	9.600	83	75994	18.695	ug/l	100
39) 1,2-Dichloropropane	9.618	63	49925	19.028	ug/l	100
40) Dibromomethane	9.706	93	32130	18.960	ug/l	100
41) Bromodichloromethane	9.882	83	69713	19.149	ug/l	100
42) Vinyl Acetate	6.600	43	616622	98.633	ug/l	100

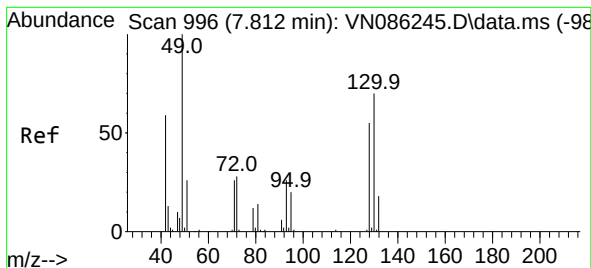
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	72635	19.607	ug/l	100
44) Isopropyl Acetate	8.683	43	129543	18.850	ug/l	100
45) 1,4-Dioxane	9.694	88	21134	386.736	ug/l	100
46) Methyl methacrylate	9.677	41	58112	19.192	ug/l	100
47) n-amyl Acetate	12.488	43	101635	18.304	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	78104	18.977	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	83505	19.170	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45892	19.308	ug/l	100
51) Ethyl methacrylate	10.871	69	84042	19.027	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79960	18.875	ug/l	100
53) Dibromochloromethane	11.353	129	49892	19.190	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45668	19.034	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	199584	119.582	ug/l	100
56) Bromoform	12.576	173	32612	19.173	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	366576	98.554	ug/l	100
59) 2-Hexanone	11.194	43	271384	97.984	ug/l	100
61) Tetrachloroethene	11.100	164	46313	19.134	ug/l	100
62) Toluene	10.629	91	212088	19.292	ug/l	100
64) Chlorobenzene	11.888	112	128877	19.188	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	42656	19.244	ug/l	100
66) Ethyl Benzene	11.959	91	233805	19.177	ug/l	100
67) m/p-Xylenes	12.071	106	172384	38.024	ug/l	100
68) o-Xylene	12.394	106	85173	19.101	ug/l	100
69) Styrene	12.406	104	141327	18.793	ug/l	100
70) Isopropylbenzene	12.694	105	209526	19.057	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	60936	19.472	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	91862	20.734	ug/l	58
73) Bromobenzene	12.976	156	46561	19.116	ug/l	100
74) n-propylbenzene	13.029	91	243573	18.707	ug/l	100
75) 2-Chlorotoluene	13.123	91	154341	18.914	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	172014	19.046	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	28529	18.993	ug/l	100
78) 4-Chlorotoluene	13.218	91	151091	18.539	ug/l	100
79) tert-butylbenzene	13.435	119	147428	18.865	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174827	19.089	ug/l	100
81) sec-Butylbenzene	13.612	105	208583	19.134	ug/l	100
82) p-Isopropyltoluene	13.723	119	173120	19.037	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	84482	18.662	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	84947	18.705	ug/l	100
85) n-Butylbenzene	14.053	91	155208	18.919	ug/l	100
86) Hexachloroethane	14.329	117	29008	18.910	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	85009	19.018	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14031	19.684	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100
90) Hexachlorobutadiene	15.500	225	18215	19.398	ug/l	100
91) Naphthalene	15.635	128	169118	19.722	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

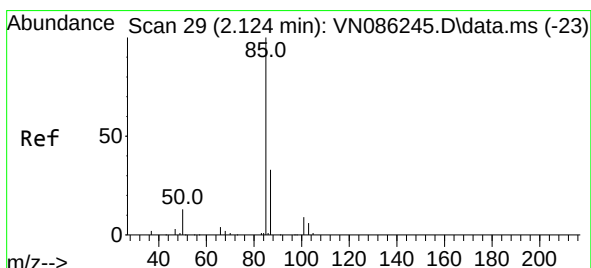
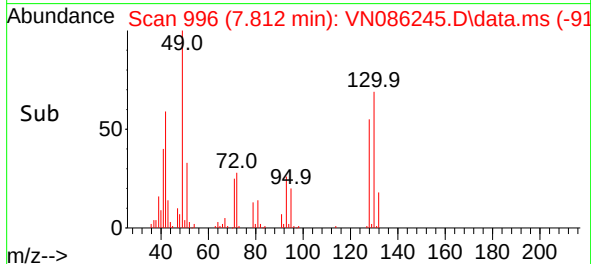
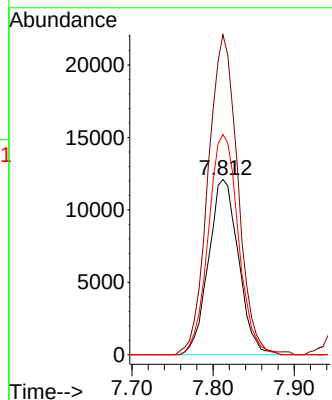
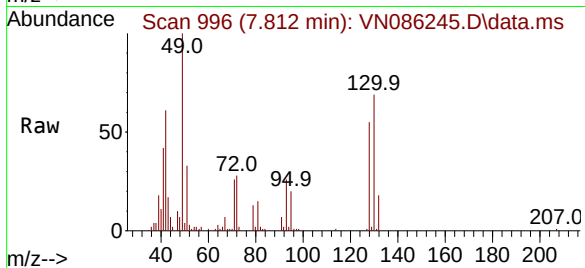
Tgt Ion:128 Resp: 30974

Ion Ratio Lower Upper

128 100

49 181.0 0.0 452.5

130 126.0 0.0 315.0



#2

Dichlorodifluoromethane

Concen: 19.345 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN086245.D

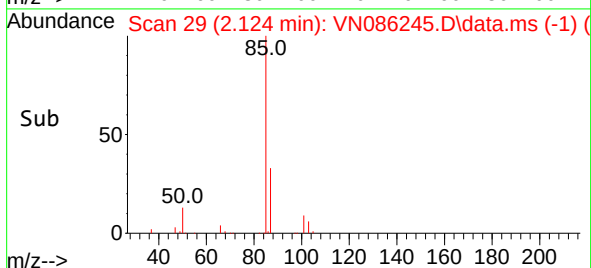
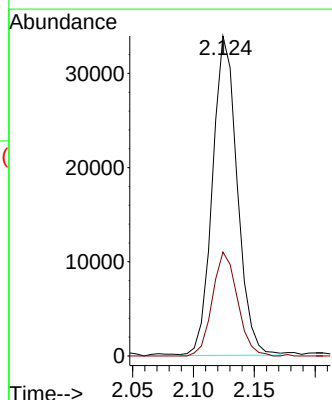
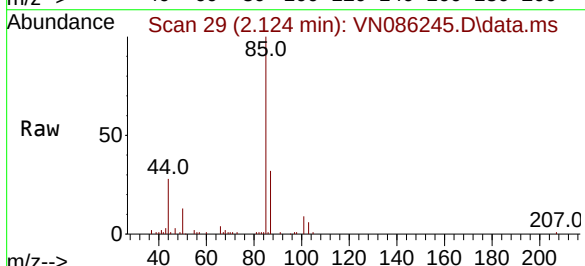
Acq: 11 Apr 2025 12:16

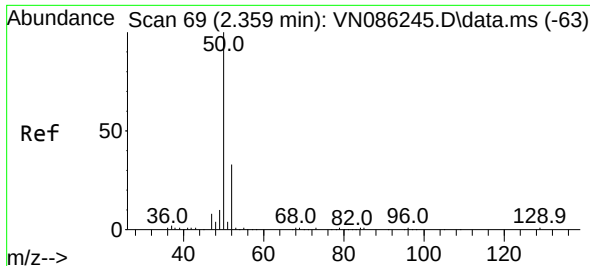
Tgt Ion: 85 Resp: 48008

Ion Ratio Lower Upper

85 100

87 32.6 16.3 48.9

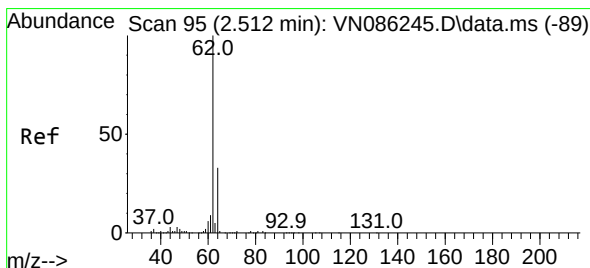
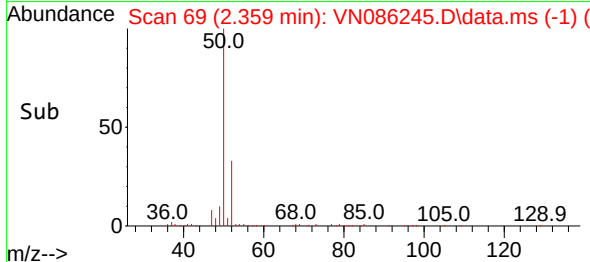
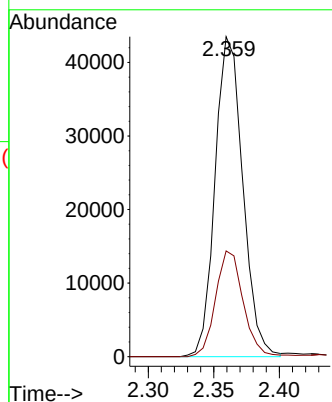
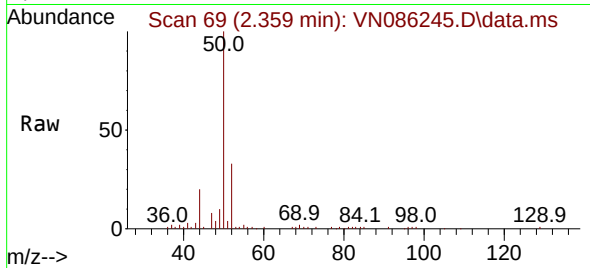




#3
Chloromethane
Concen: 18.624 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

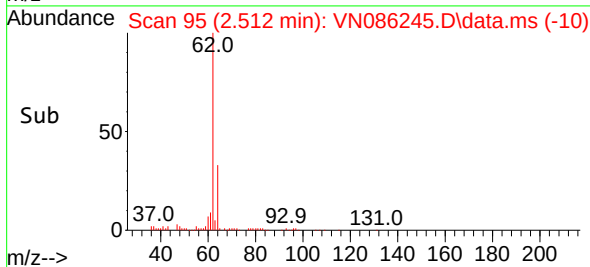
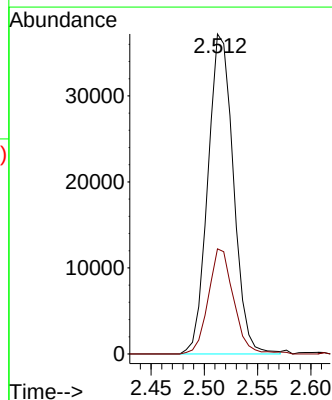
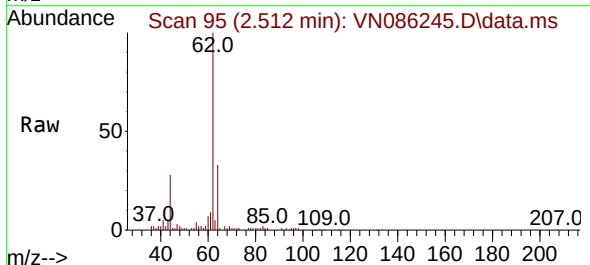
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

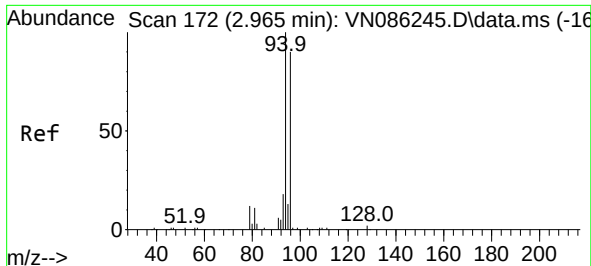
Tgt Ion: 50 Resp: 63879
Ion Ratio Lower Upper
50 100
52 33.0 26.4 39.6



#4
Vinyl Chloride
Concen: 19.006 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 62 Resp: 62095
Ion Ratio Lower Upper
62 100
64 32.9 26.3 39.5

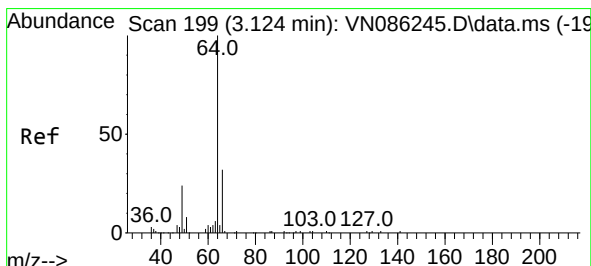
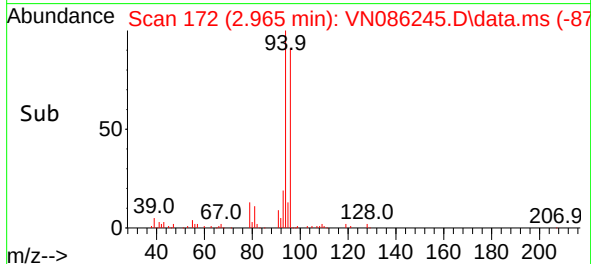
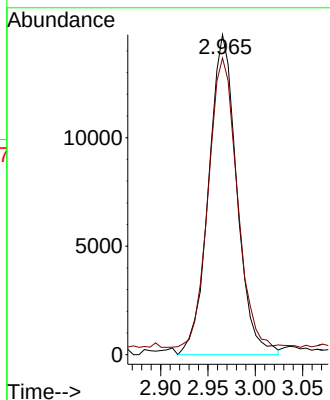
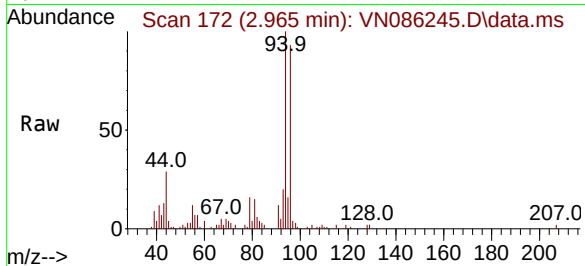




#5
Bromomethane
Concen: 18.686 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

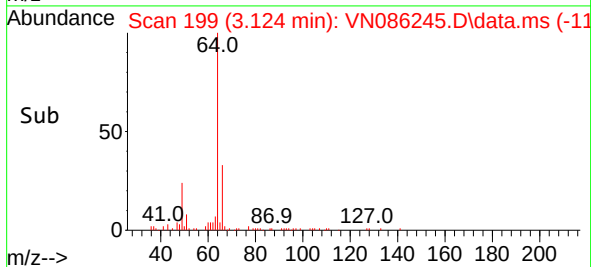
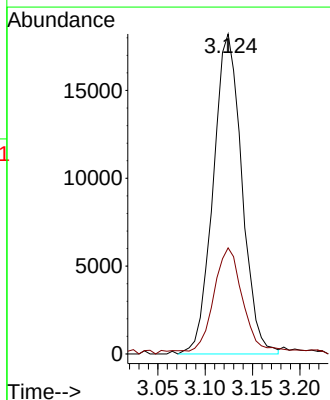
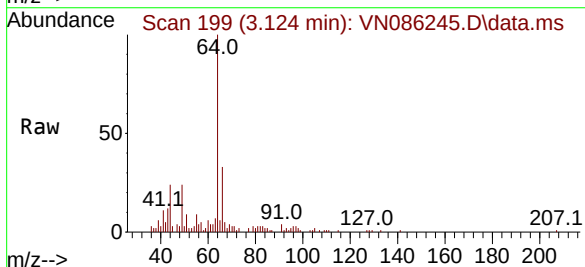
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

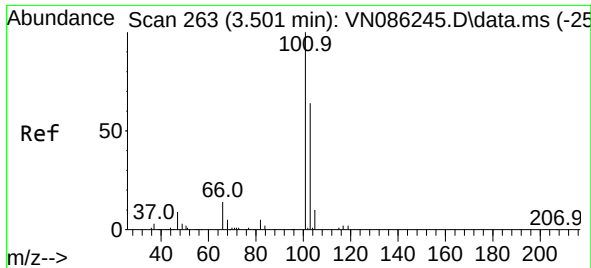
Tgt Ion: 94 Resp: 30452
Ion Ratio Lower Upper
94 100
96 90.2 72.2 108.2



#6
Chloroethane
Concen: 18.620 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 64 Resp: 38415
Ion Ratio Lower Upper
64 100
66 32.1 25.7 38.5

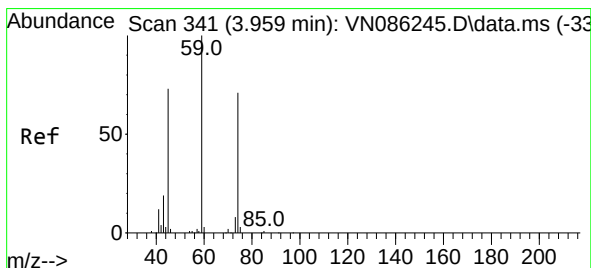
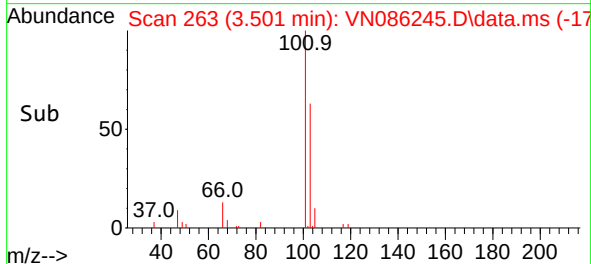
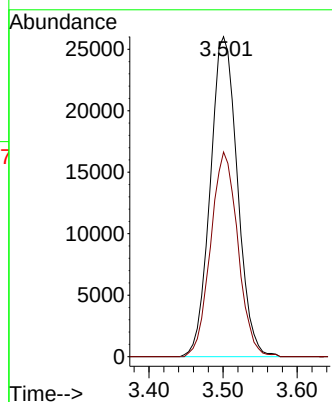
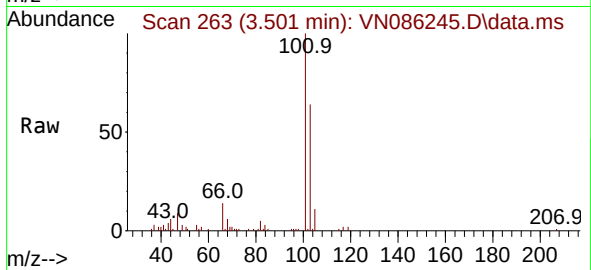




#7
 Trichlorofluoromethane
 Concen: 18.683 ug/l
 RT: 3.501 min Scan# 263
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

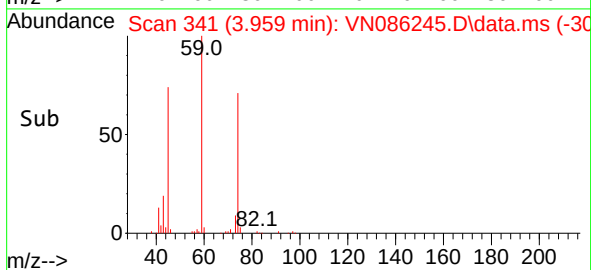
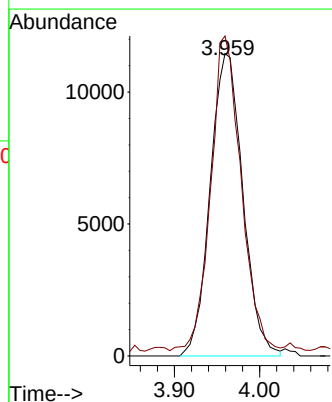
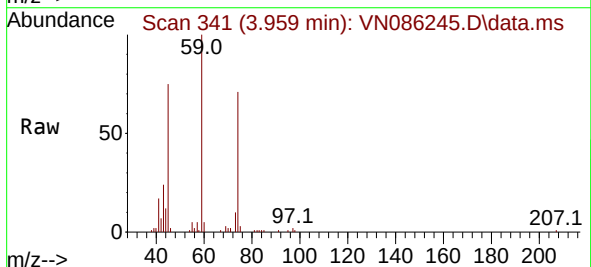
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

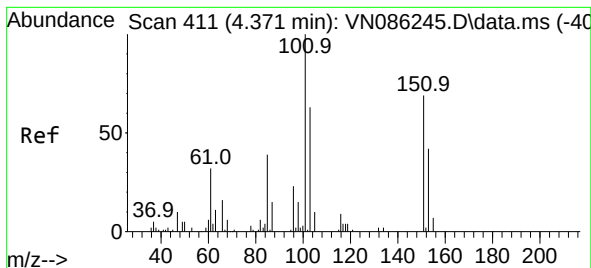
Tgt Ion:101 Resp: 66215
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.2 76.8



#8
 Diethyl Ether
 Concen: 18.653 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion: 74 Resp: 30487
 Ion Ratio Lower Upper
 74 100
 45 96.2 19.2 173.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.878 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

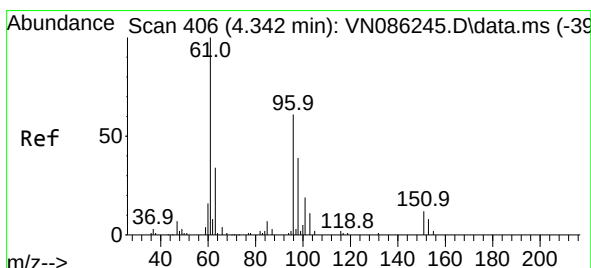
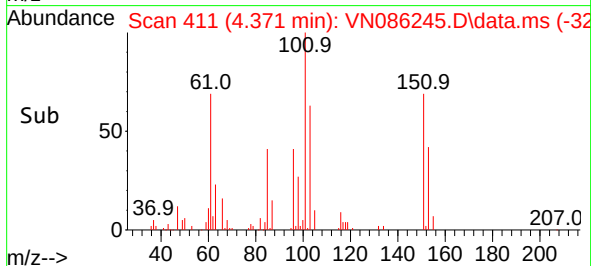
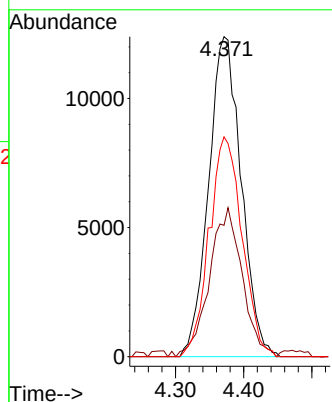
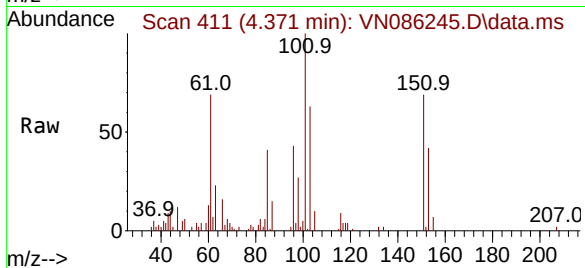
Tgt Ion:101 Resp: 41257

Ion Ratio Lower Upper

101 100

85 46.5 0.0 93.0

151 69.3 0.0 138.6



#10

1,1-Dichloroethene

Concen: 18.782 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

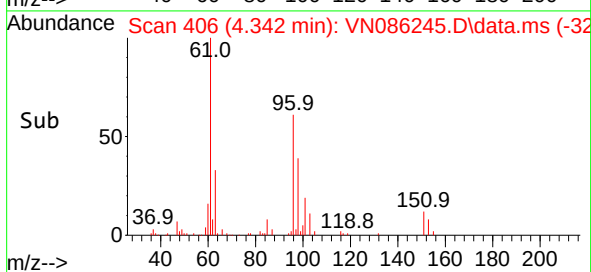
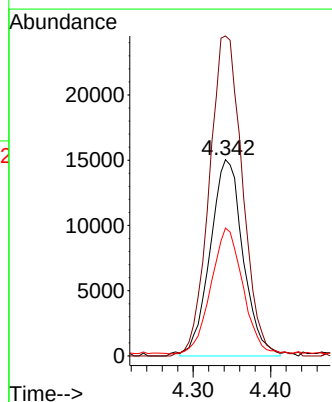
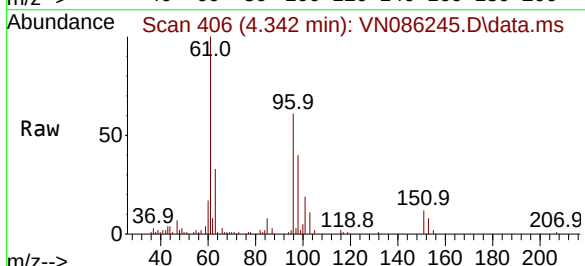
Tgt Ion: 96 Resp: 44299

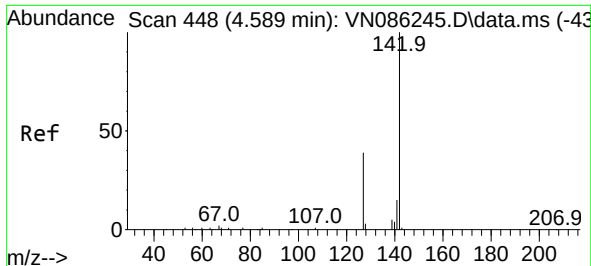
Ion Ratio Lower Upper

96 100

61 163.9 131.1 196.7

98 64.5 51.6 77.4

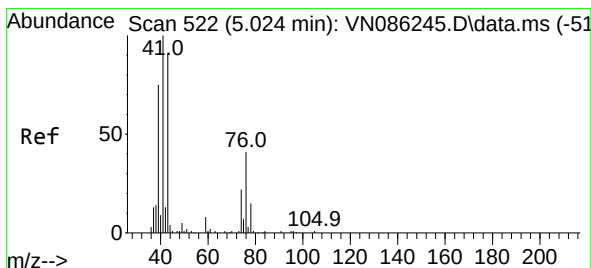
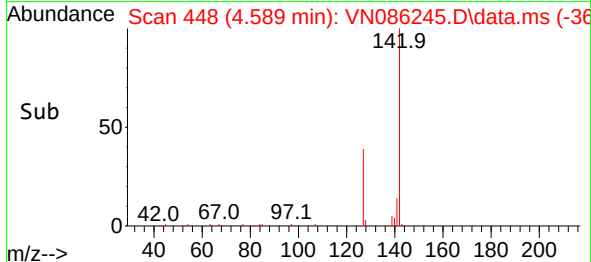
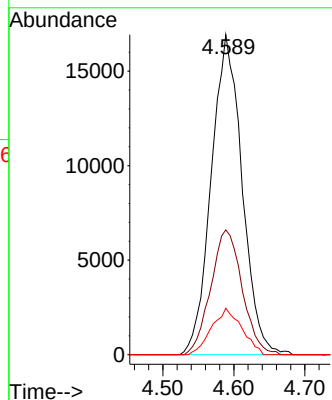
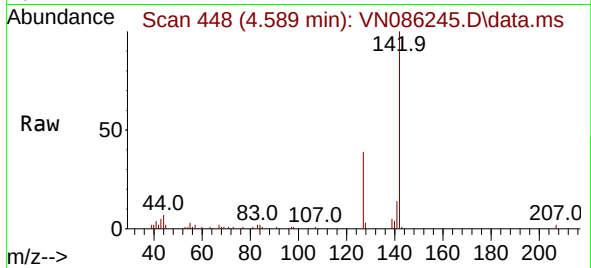




#11
Methyl Iodide
Concen: 18.760 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

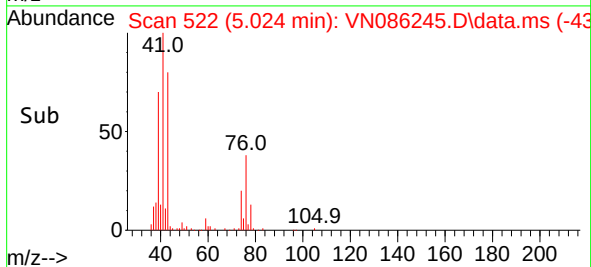
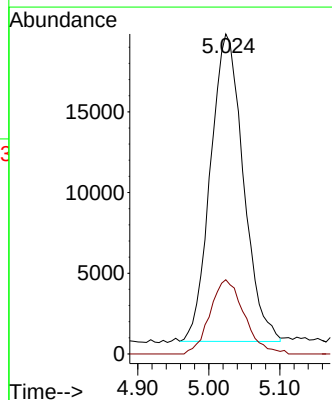
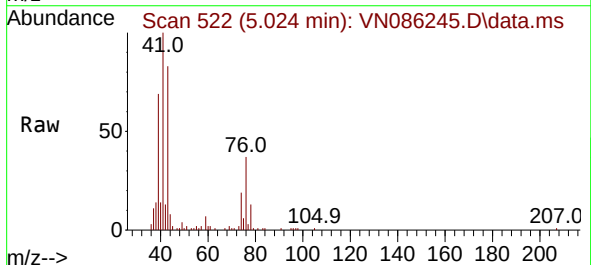
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

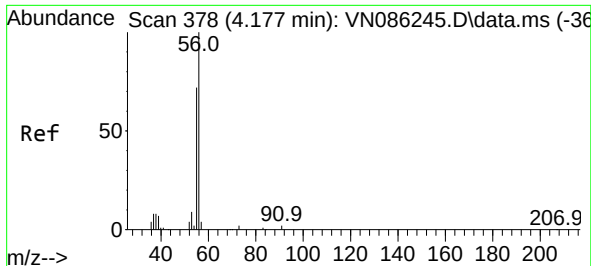
Tgt Ion:142 Resp: 50856
Ion Ratio Lower Upper
142 100
127 39.2 19.6 58.8
141 14.6 7.3 21.9



#12
Methyl Acetate
Concen: 18.414 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 61331
Ion Ratio Lower Upper
43 100
74 23.9 19.1 28.7





#13

Acrolein

Concen: 73.623 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

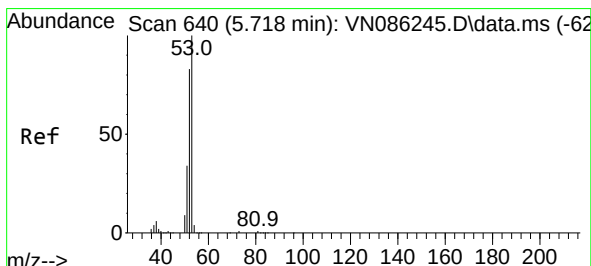
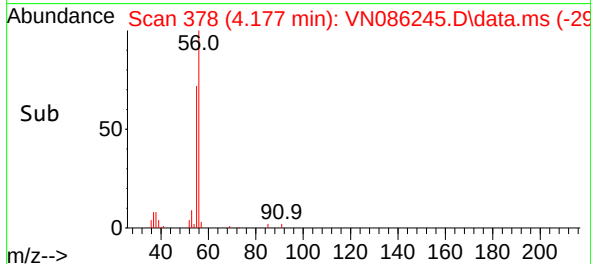
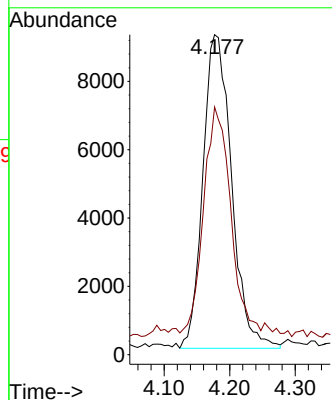
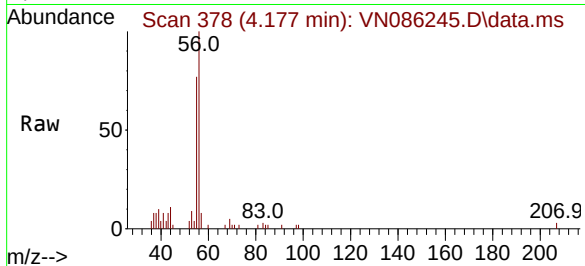
VSTDICCC020

Tgt Ion: 56 Resp: 27873

Ion Ratio Lower Upper

56 100

55 70.6 56.5 84.7



#14

Acrylonitrile

Concen: 94.169 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

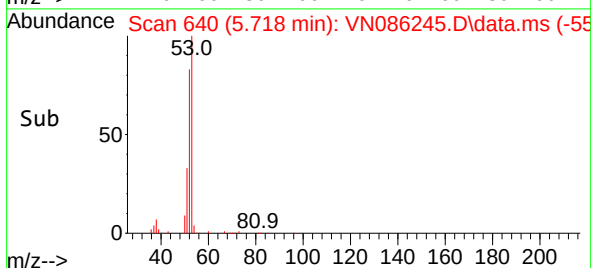
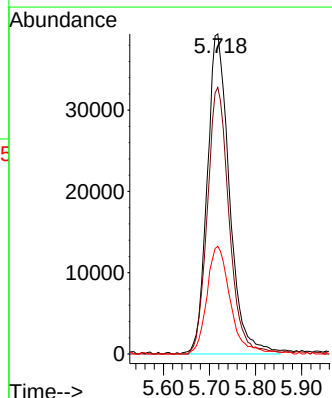
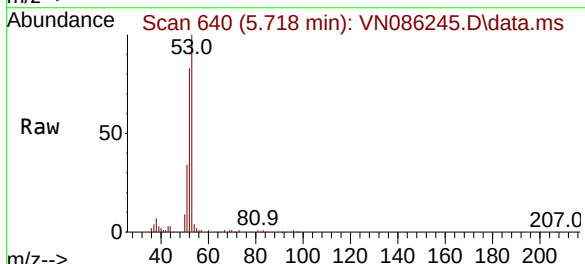
Tgt Ion: 53 Resp: 132407

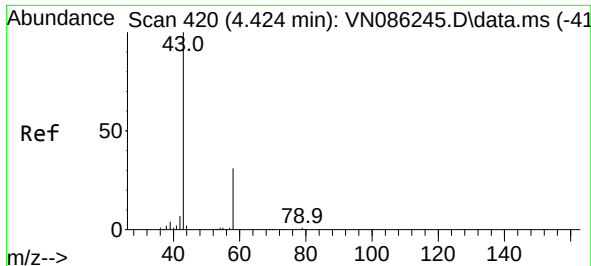
Ion Ratio Lower Upper

53 100

52 80.4 40.2 120.6

51 35.1 17.5 52.6





#15

Acetone

Concen: 95.196 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

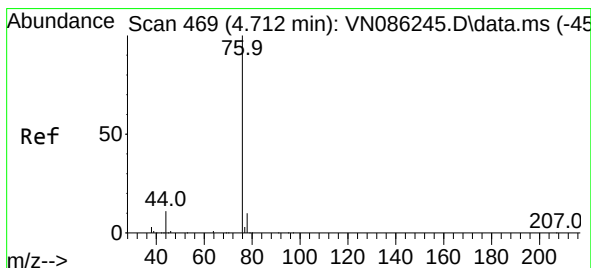
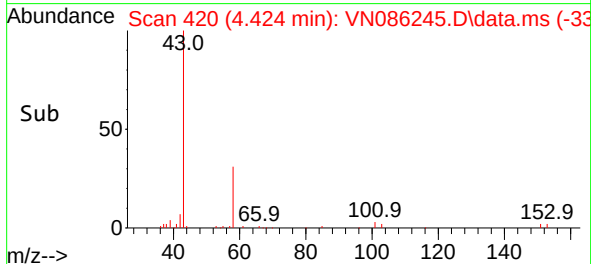
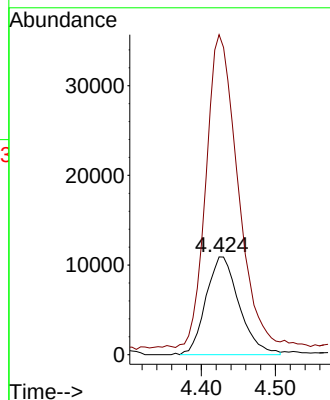
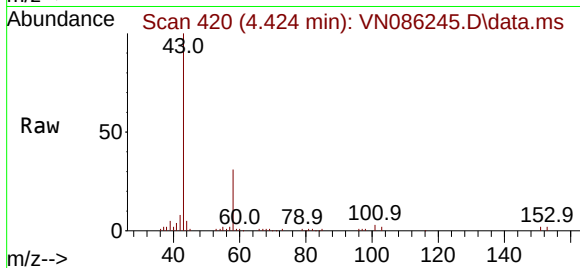
VSTDICCC020

Tgt Ion: 58 Resp: 33967

Ion Ratio Lower Upper

58 100

43 317.0 261.8 392.8



#16

Carbon Disulfide

Concen: 19.155 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086245.D

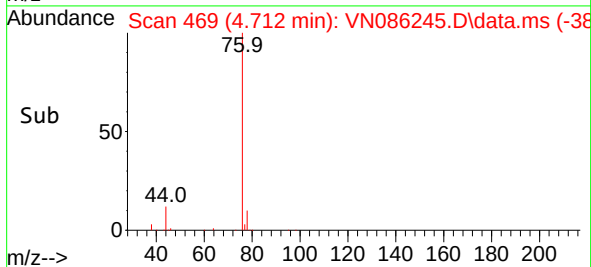
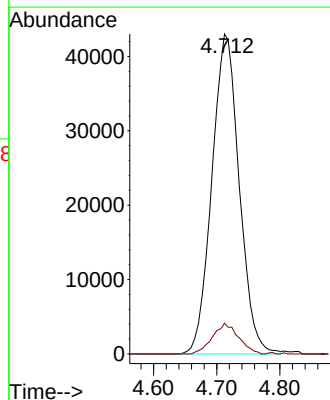
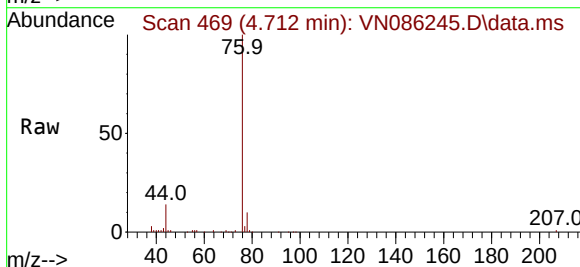
Acq: 11 Apr 2025 12:16

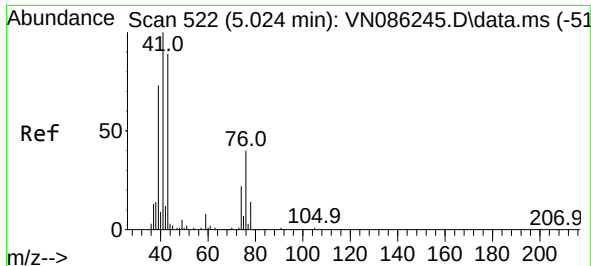
Tgt Ion: 76 Resp: 129547

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5

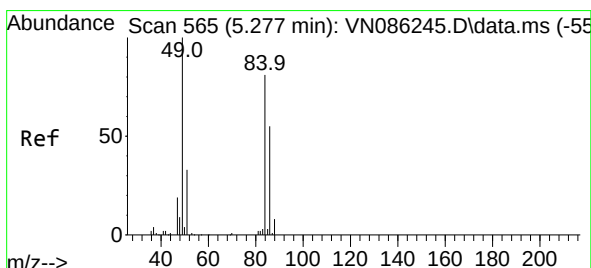
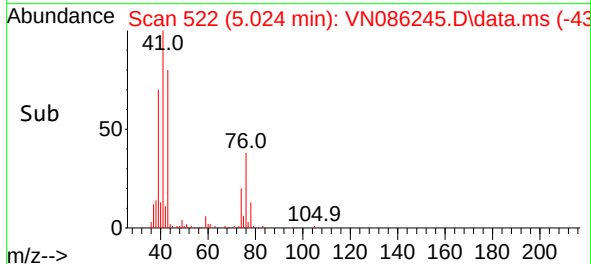
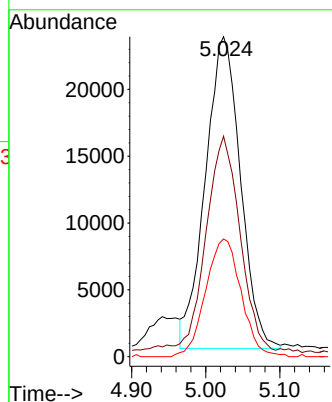
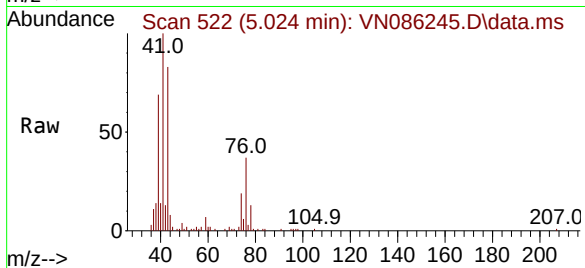




#17
Allyl chloride
Concen: 18.648 ug/l
RT: 5.024 min Scan# 511
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

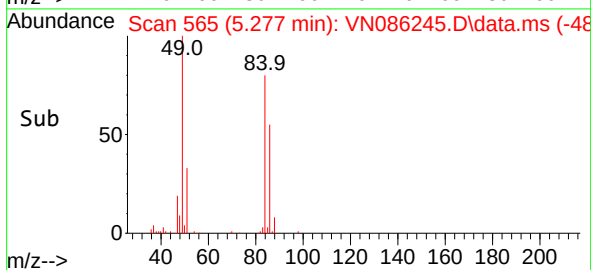
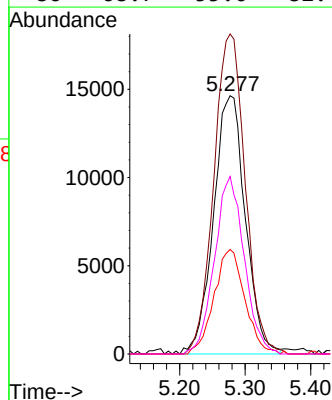
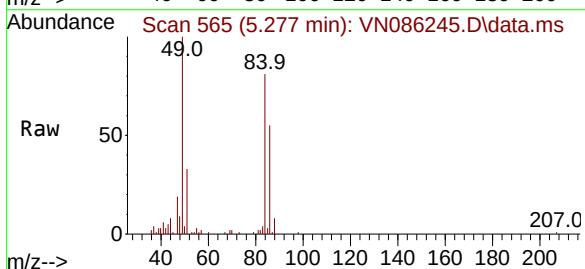
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

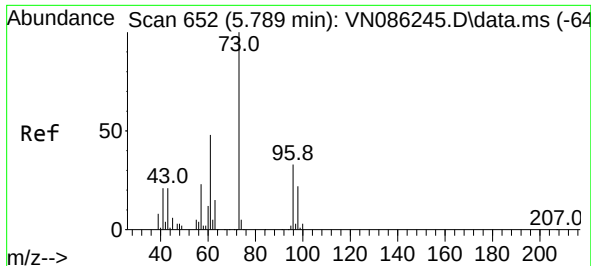
Tgt Ion:	41	Resp:	76657
Ion	Ratio	Lower	Upper
41	100		
39	68.8	34.4	103.2
76	37.5	18.8	56.3



#18
Methylene Chloride
Concen: 18.333 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:	84	Resp:	49299
Ion	Ratio	Lower	Upper
84	100		
49	123.9	99.1	148.7
51	40.4	32.3	48.5
86	68.7	55.0	82.4

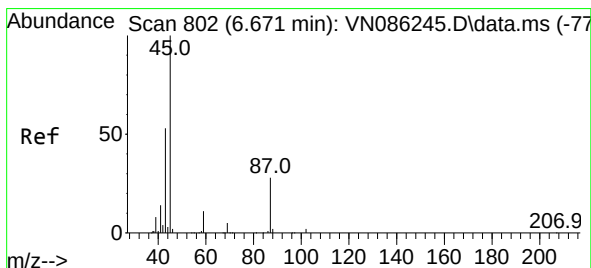
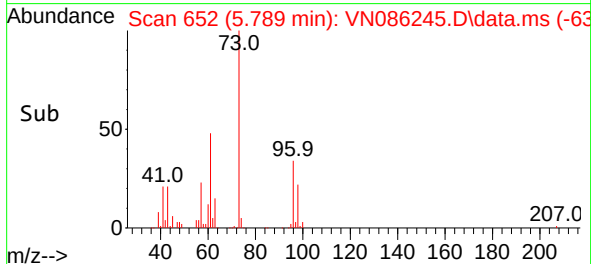
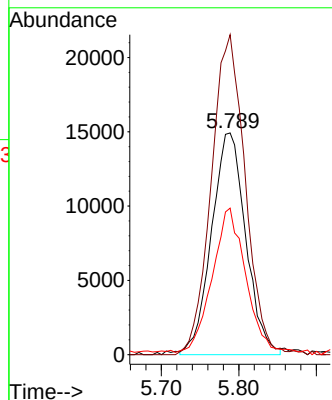
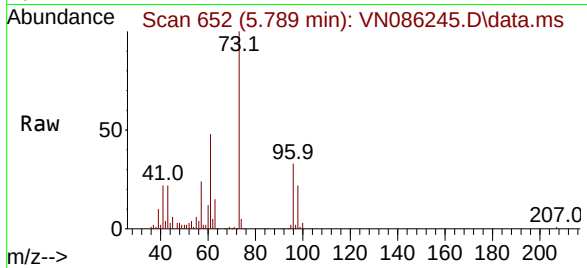




#19
trans-1,2-Dichloroethene
Concen: 21.553 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

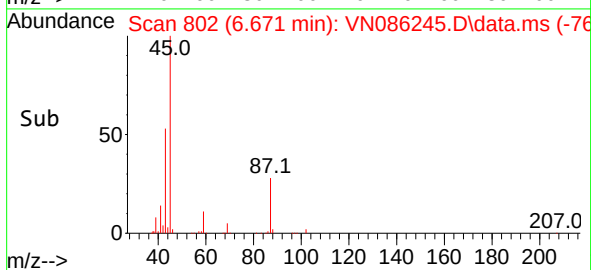
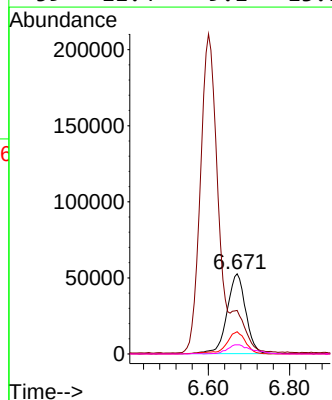
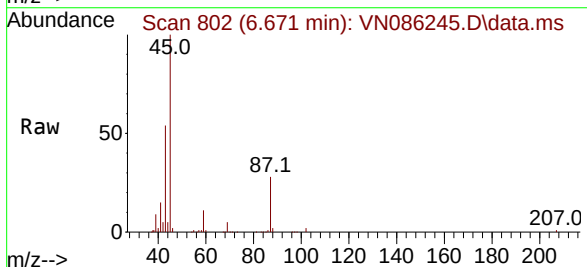
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

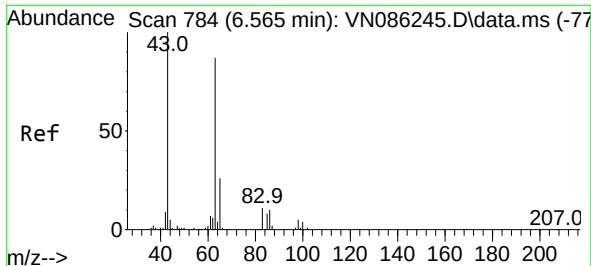
Tgt Ion: 96 Resp: 45854
Ion Ratio Lower Upper
96 100
61 144.9 115.9 173.9
98 65.1 52.1 78.1



#20
Diisopropyl ether
Concen: 18.905 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 45 Resp: 167099
Ion Ratio Lower Upper
45 100
43 52.9 42.3 63.5
87 27.8 22.2 33.4
59 11.4 9.1 13.7

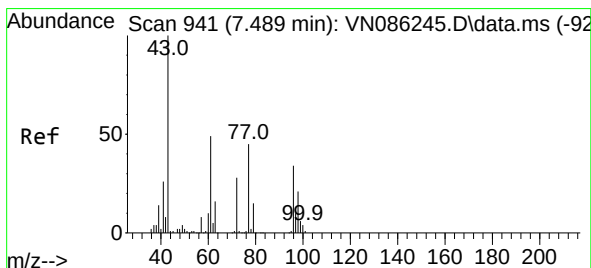
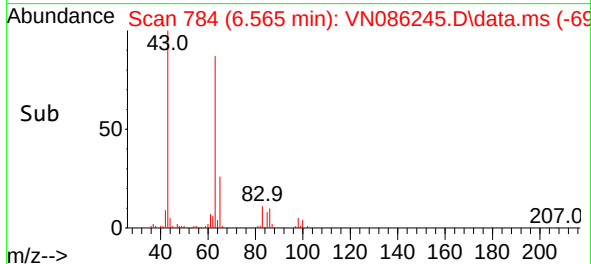
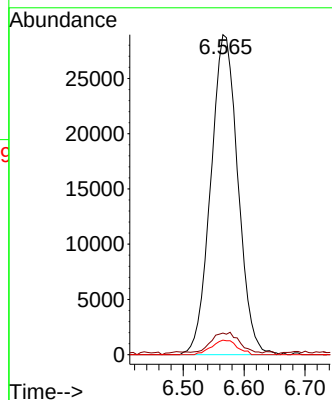
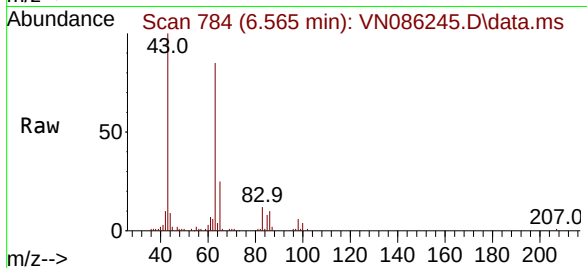




#21
1,1-Dichloroethane
Concen: 19.030 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

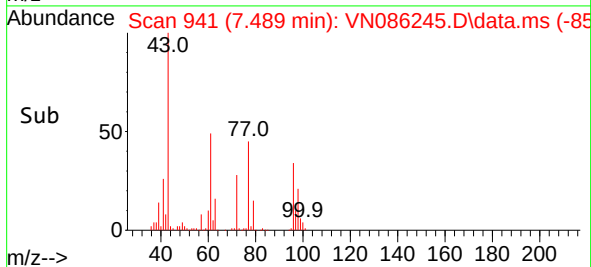
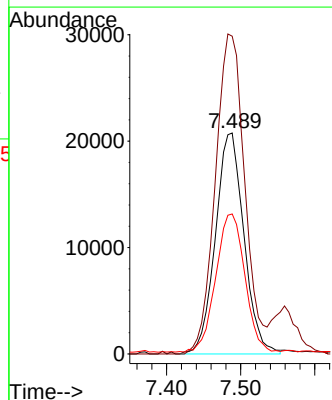
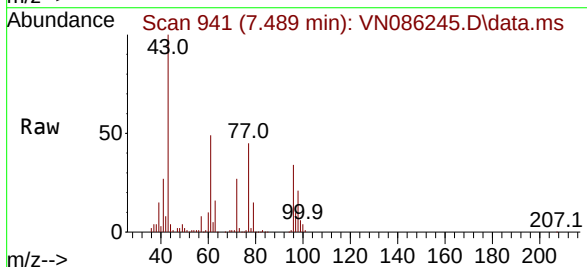
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

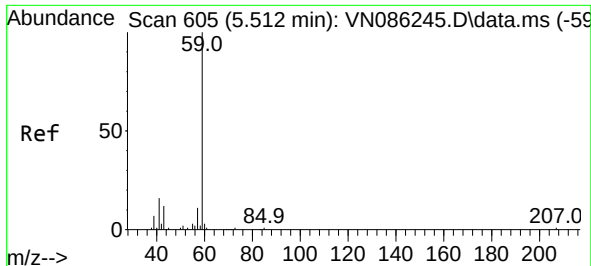
Tgt Ion:	63	Resp:	89726
Ion Ratio	Lower	Upper	
63	100		
98	6.2	3.1	9.3
100	4.6	2.3	6.9



#22
cis-1,2-Dichloroethene
Concen: 18.766 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:	96	Resp:	55538
Ion Ratio	Lower	Upper	
96	100		
61	149.4	119.5	179.3
98	63.8	51.0	76.6

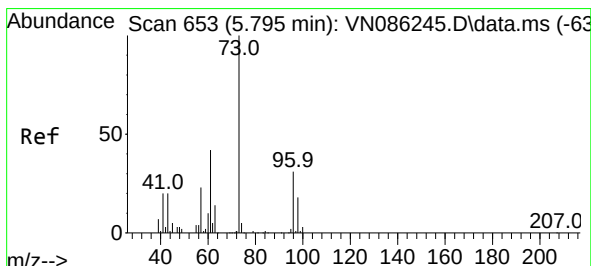
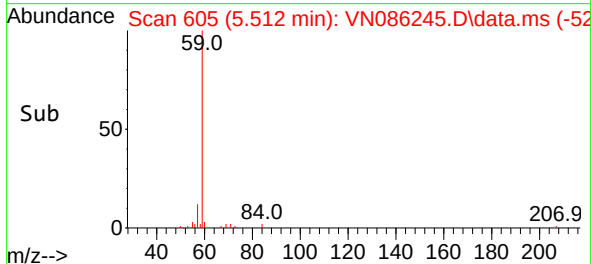
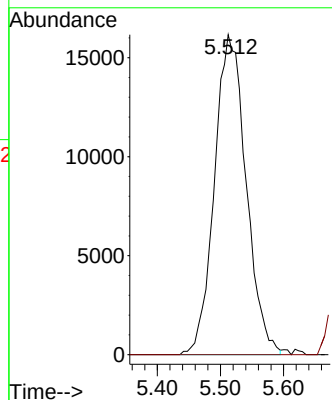
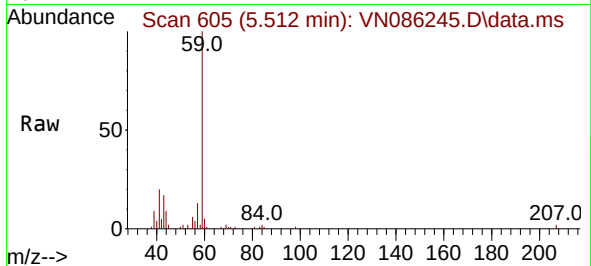




#23
tert-Butyl Alcohol
Concen: 96.582 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

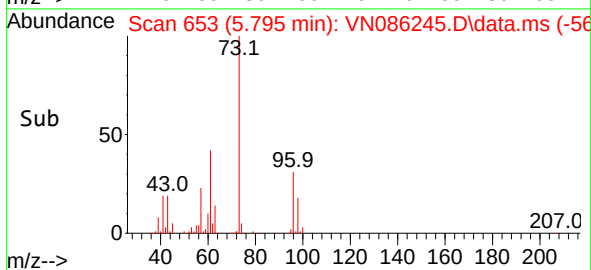
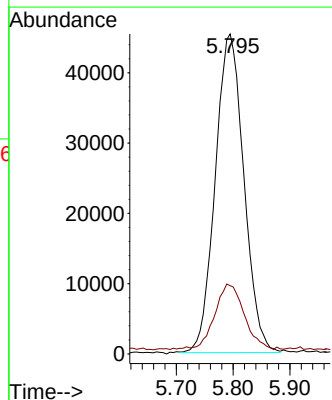
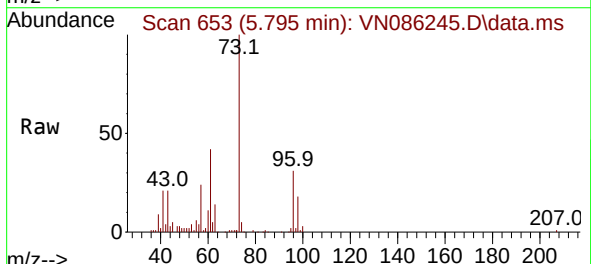
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

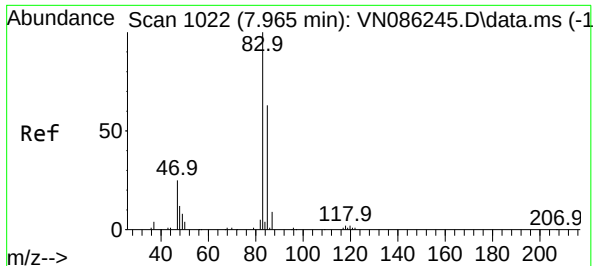
Tgt Ion: 59 Resp: 56269
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 18.690 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 73 Resp: 158818
Ion Ratio Lower Upper
73 100
43 21.0 16.8 25.2

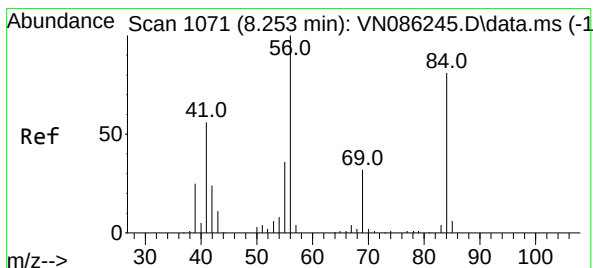
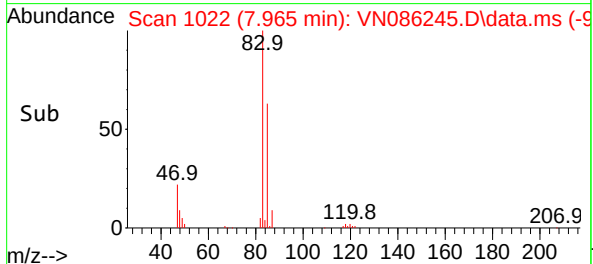
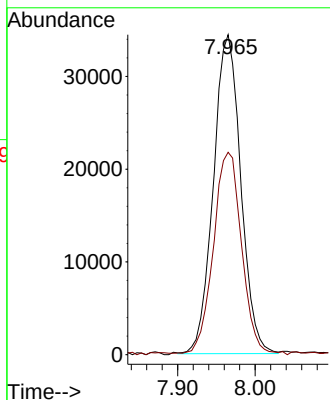
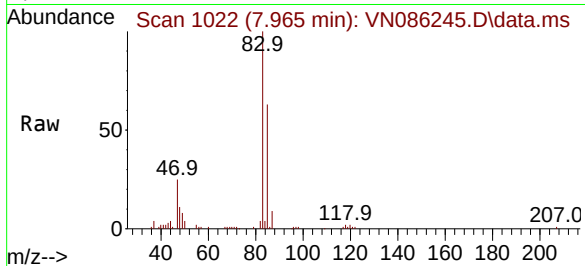




#25
Chloroform
Concen: 18.796 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

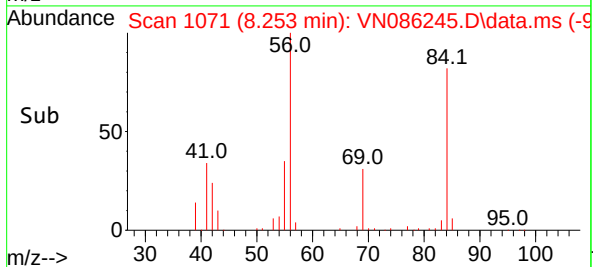
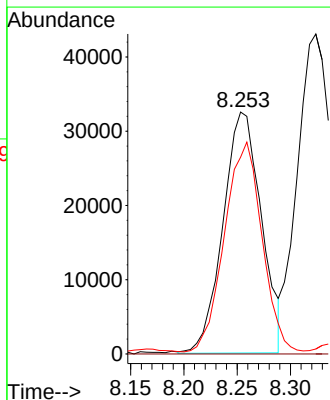
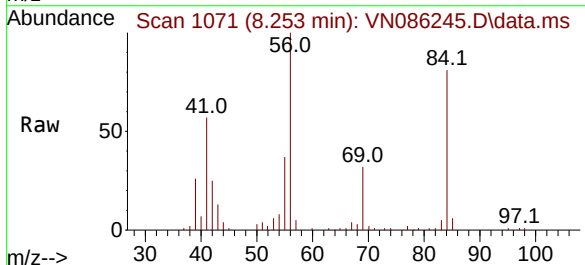
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

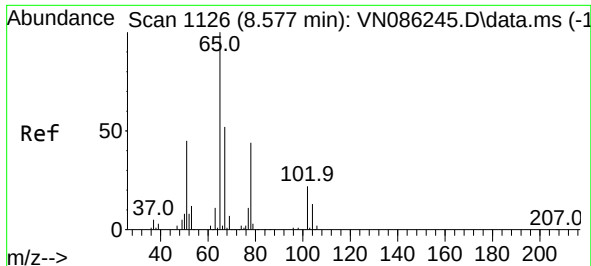
Tgt Ion: 83 Resp: 84511
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7



#26
Cyclohexane
Concen: 18.462 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 56 Resp: 81442
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.2 69.0 103.4

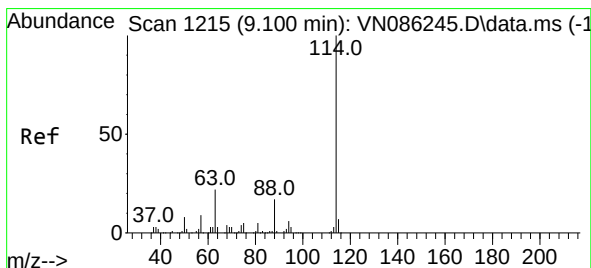
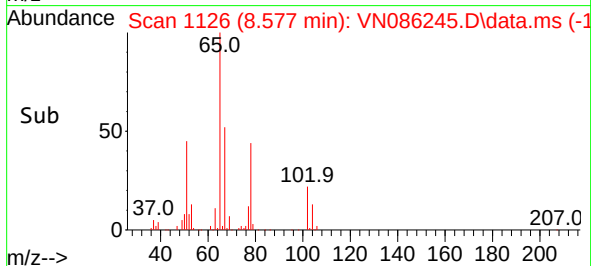
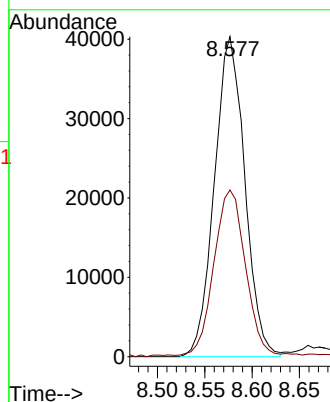
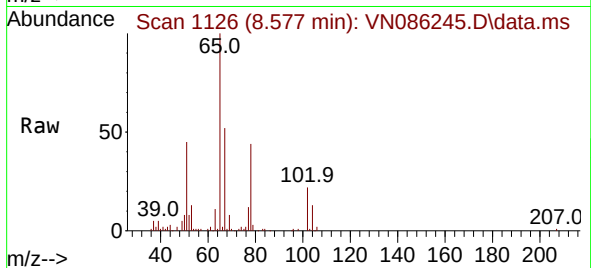




#27
1,2-Dichloroethane-d4
Concen: 29.776 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

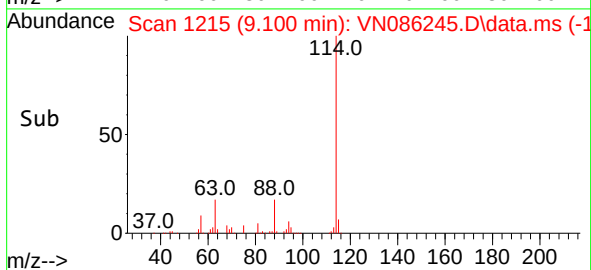
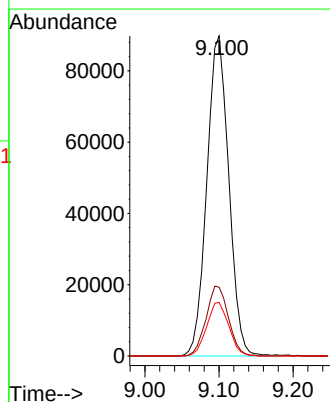
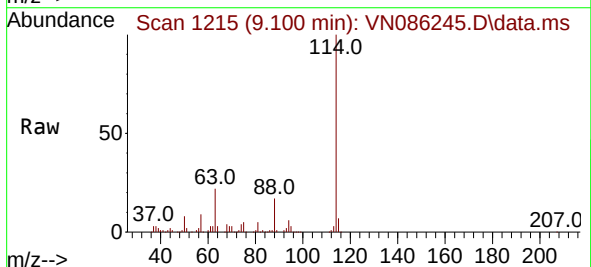
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

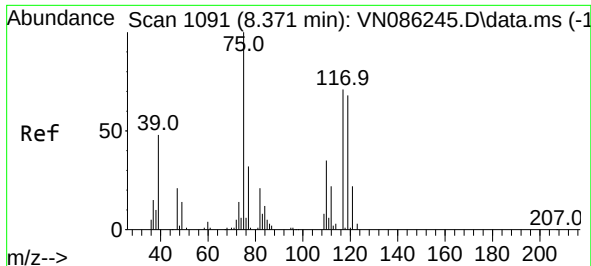
Tgt Ion: 65 Resp: 89958
Ion Ratio Lower Upper
65 100
67 54.3 43.4 65.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 114 Resp: 185020
Ion Ratio Lower Upper
114 100
63 22.2 17.8 26.6
88 16.8 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.129 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

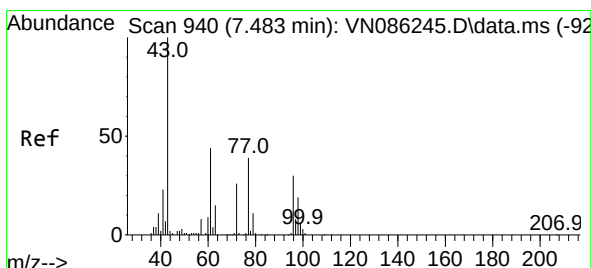
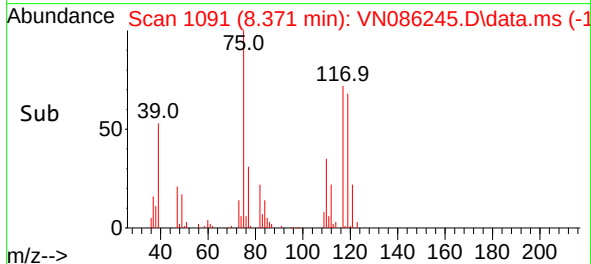
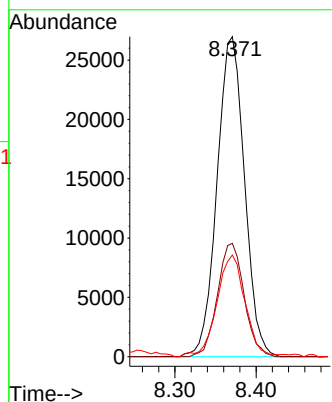
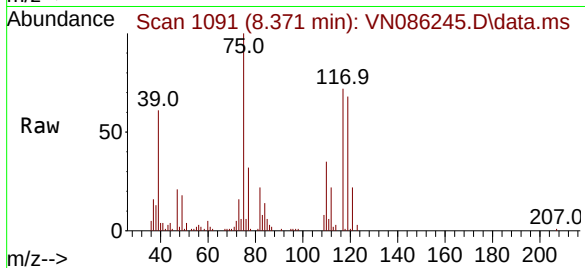
Tgt Ion: 75 Resp: 63403

Ion Ratio Lower Upper

75 100

110 34.3 0.0 68.6

77 31.9 0.0 63.8



#30

2-Butanone

Concen: 97.263 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

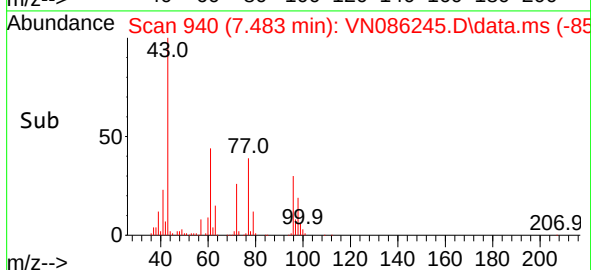
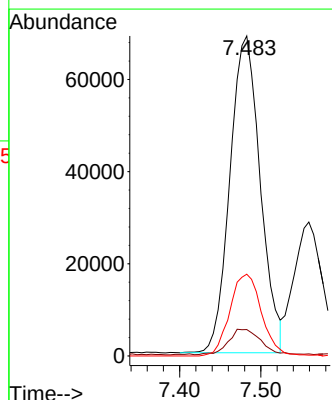
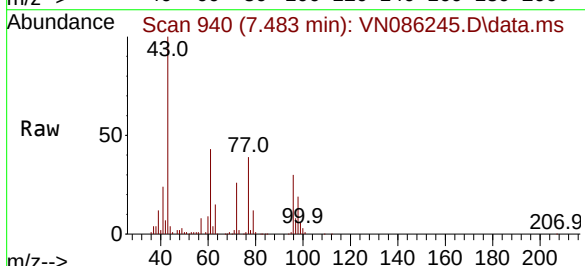
Tgt Ion: 43 Resp: 178630

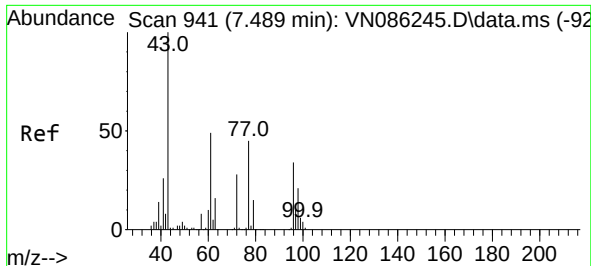
Ion Ratio Lower Upper

43 100

57 8.0 6.4 9.6

72 26.9 21.5 32.3

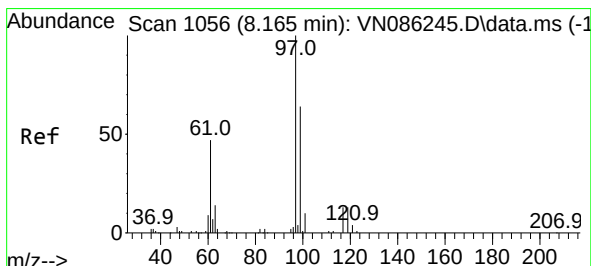
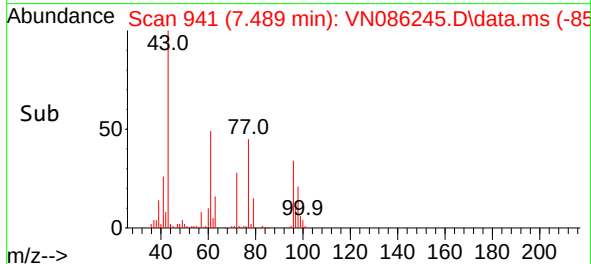
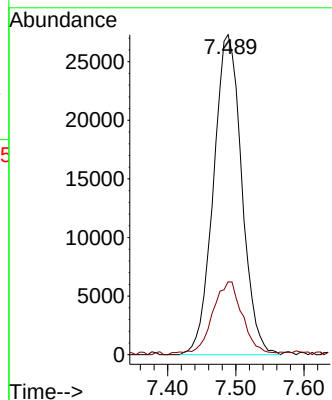
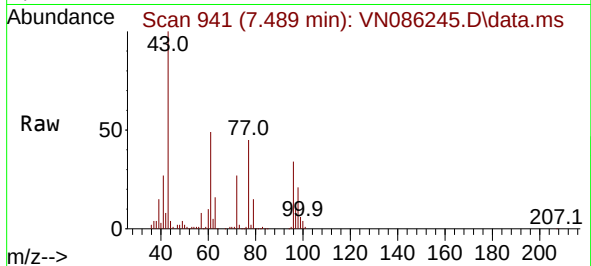




#31
2,2-Dichloropropane
Concen: 19.298 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

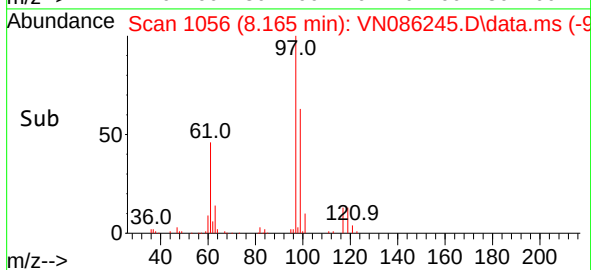
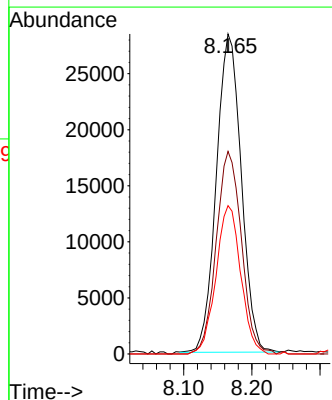
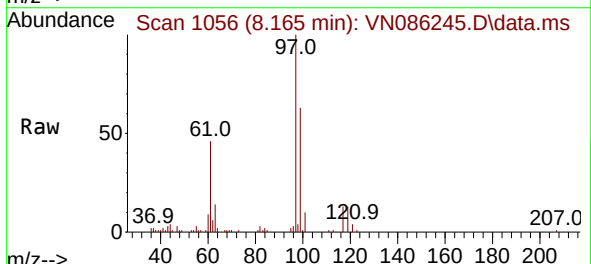
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

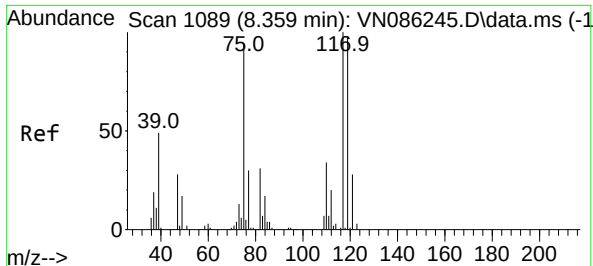
Tgt Ion: 77 Resp: 78733
Ion Ratio Lower Upper
77 100
97 23.5 18.8 28.2



#32
1,1,1-Trichloroethane
Concen: 18.945 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 97 Resp: 72230
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 46.3 37.0 55.6

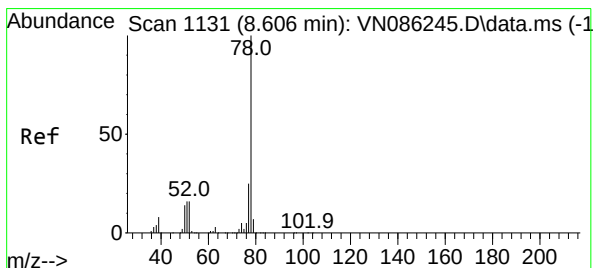
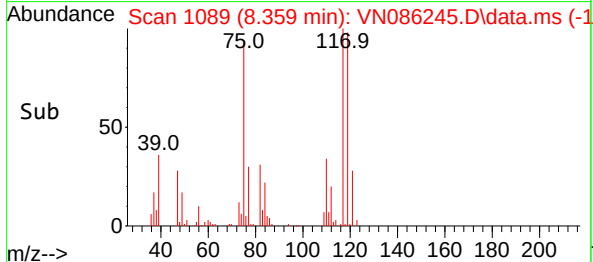
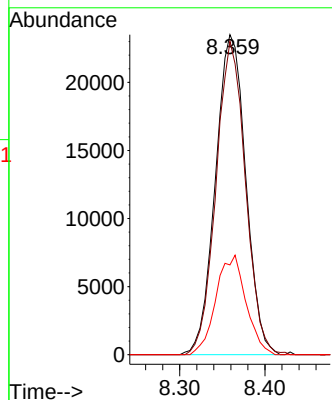
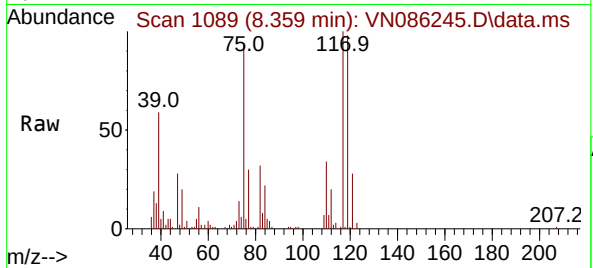




#33
Carbon Tetrachloride
Concen: 19.114 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

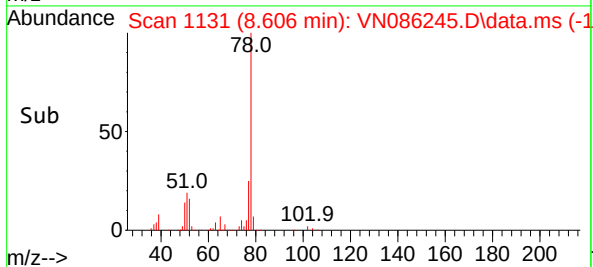
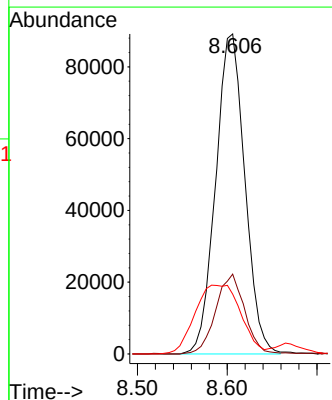
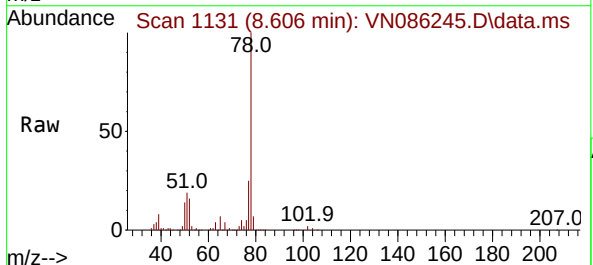
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

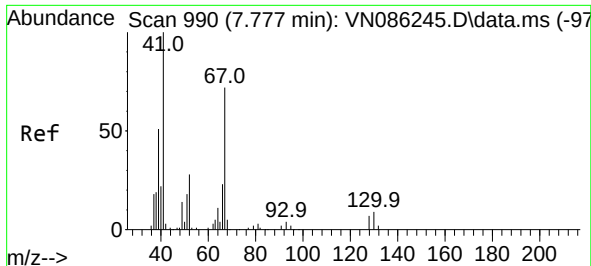
Tgt Ion:117 Resp: 58240
Ion Ratio Lower Upper
117 100
119 97.9 78.3 117.5
121 28.1 22.5 33.7



#34
Benzene
Concen: 19.103 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 78 Resp: 201431
Ion Ratio Lower Upper
78 100
77 25.0 20.0 30.0
51 16.1 12.9 19.3

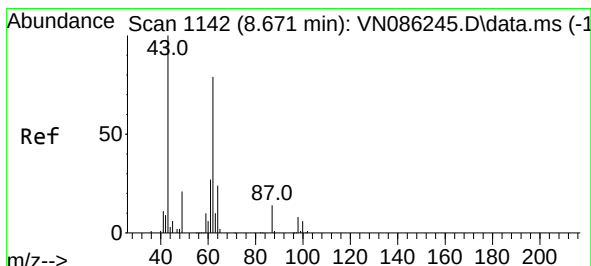
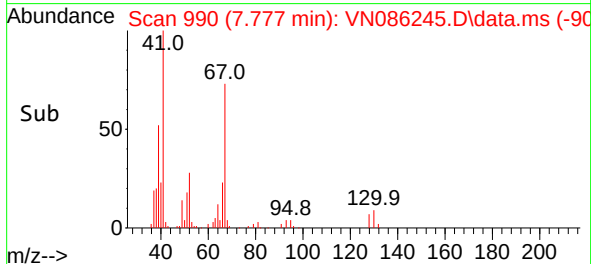
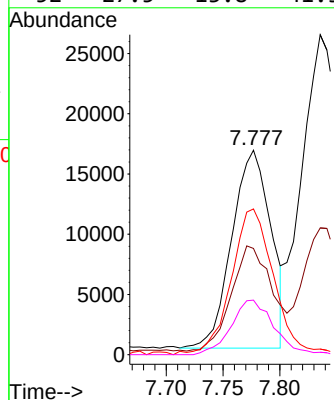
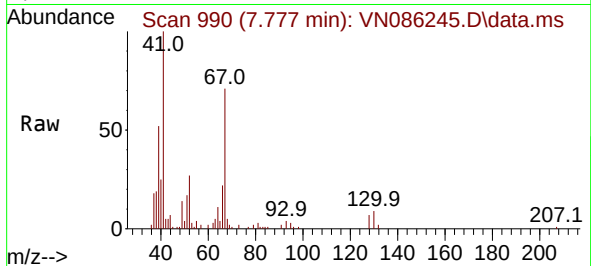




#35
Methacrylonitrile
Concen: 18.953 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

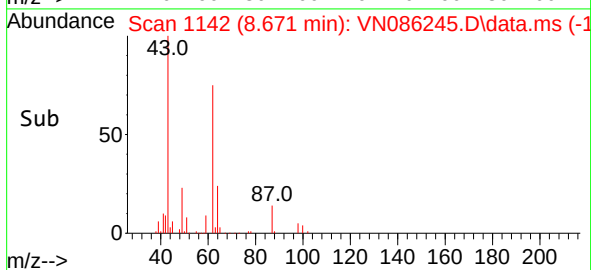
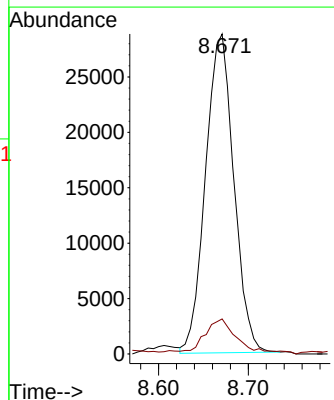
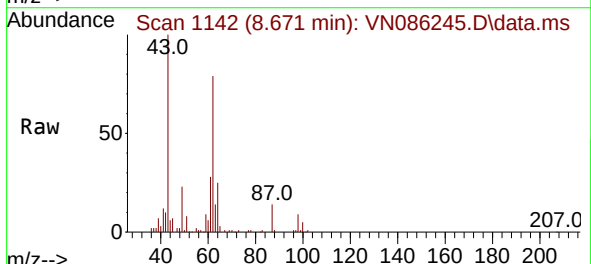
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

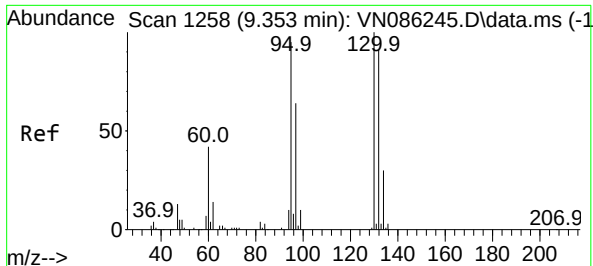
Tgt Ion:	41	Resp:	39241
Ion	Ratio	Lower	Upper
41	100		
39	51.5	25.8	77.3
67	72.0	36.0	108.0
52	27.5	13.8	41.3



#36
1,2-Dichloroethane
Concen: 19.124 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:	62	Resp:	63104
Ion	Ratio	Lower	Upper
62	100		
98	10.7	8.6	12.8





#37

Trichloroethene

Concen: 19.215 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

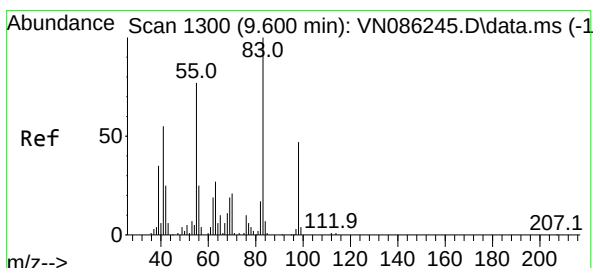
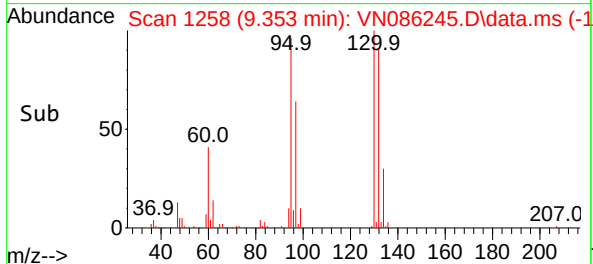
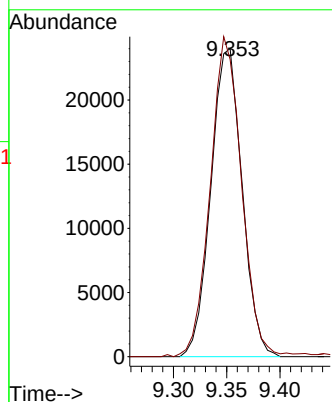
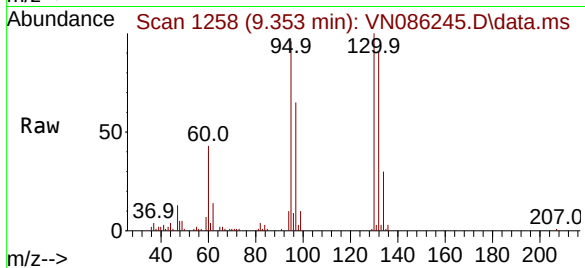
VSTDICCC020

Tgt Ion:130 Resp: 48886

Ion Ratio Lower Upper

130 100

95 95.5 76.4 114.6



#38

Methylcyclohexane

Concen: 18.695 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

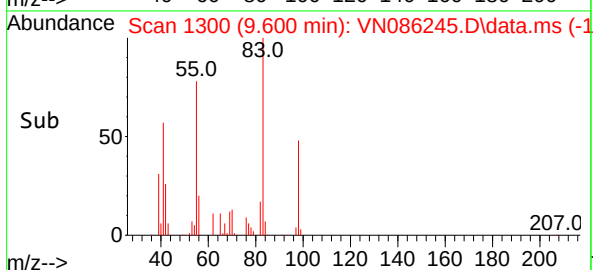
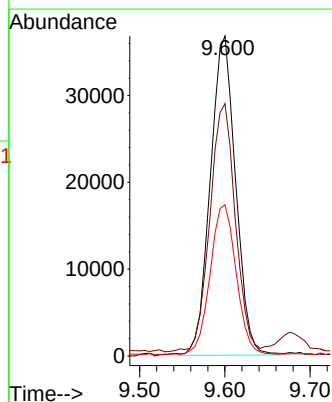
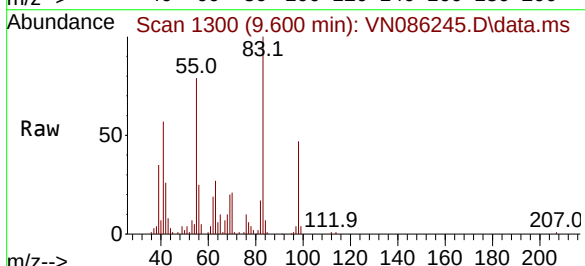
Tgt Ion: 83 Resp: 75994

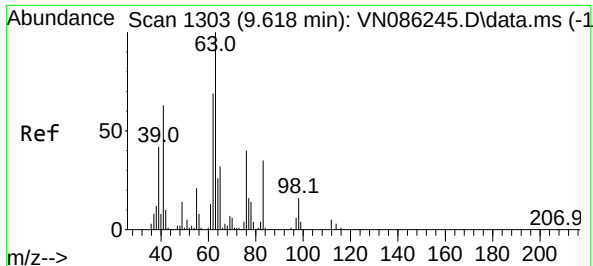
Ion Ratio Lower Upper

83 100

55 77.0 38.5 115.5

98 48.8 24.4 73.2





#39

1,2-Dichloropropane

Concen: 19.028 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

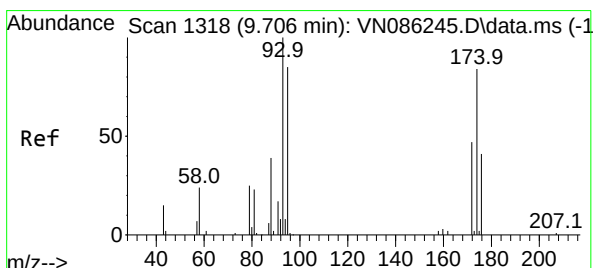
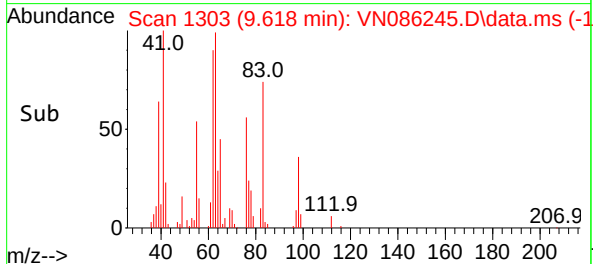
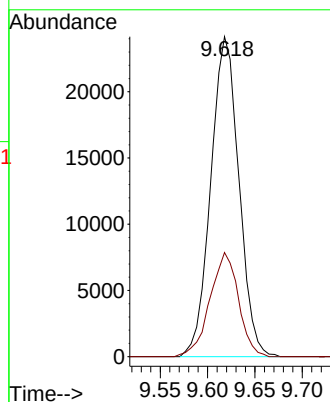
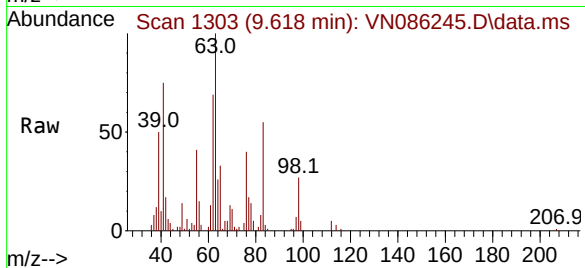
VSTDICCC020

Tgt Ion: 63 Resp: 49925

Ion Ratio Lower Upper

63 100

65 32.5 26.0 39.0



#40

Dibromomethane

Concen: 18.960 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

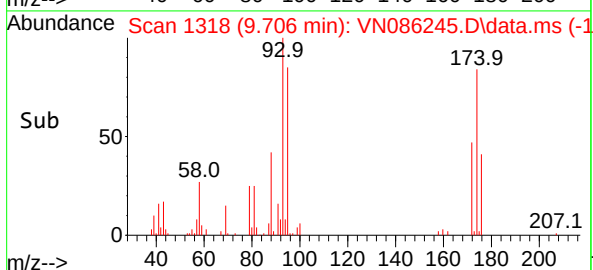
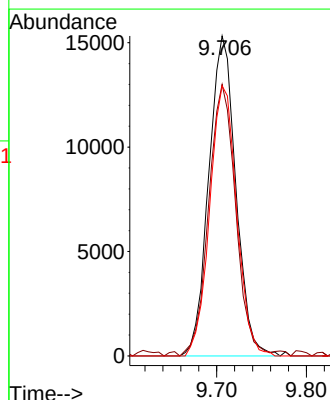
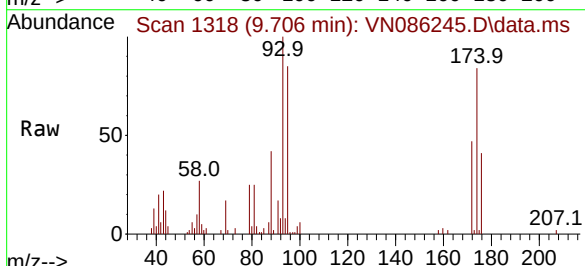
Tgt Ion: 93 Resp: 32130

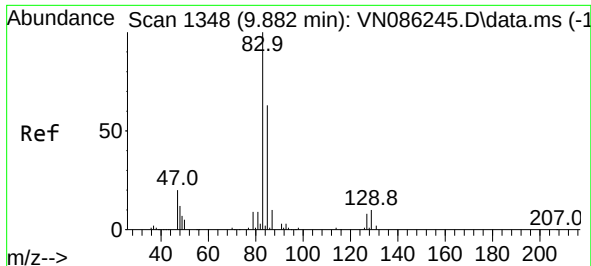
Ion Ratio Lower Upper

93 100

95 84.5 0.0 169.0

174 84.0 0.0 168.0

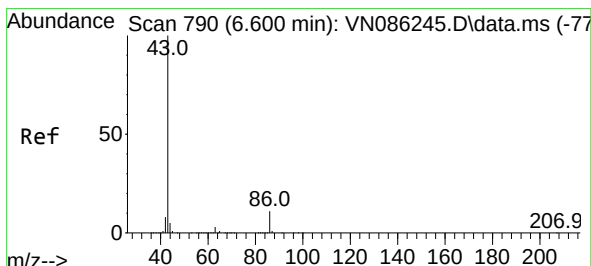
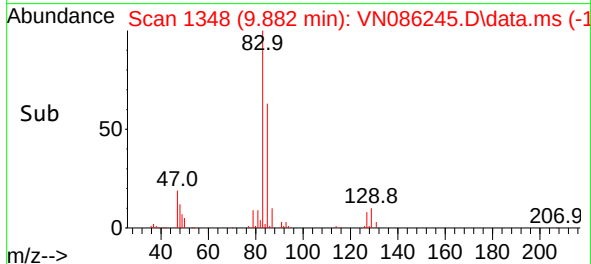
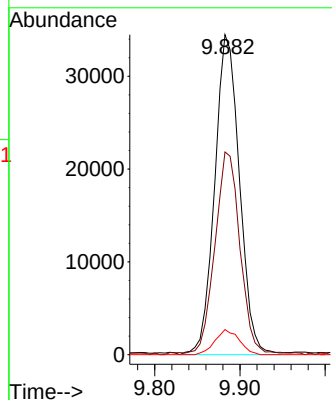
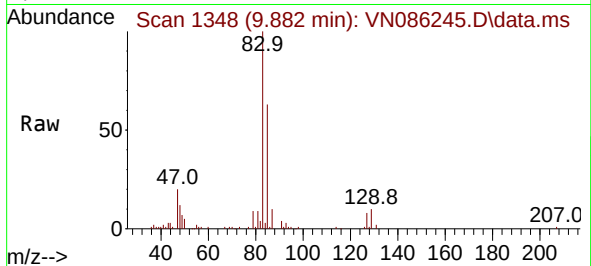




#41
Bromodichloromethane
Concen: 19.149 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

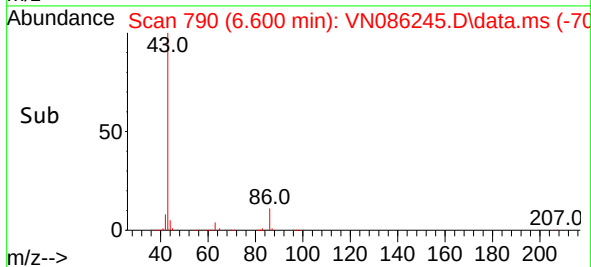
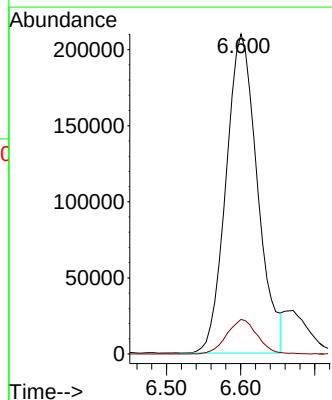
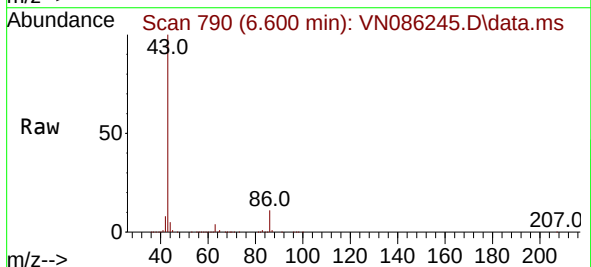
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

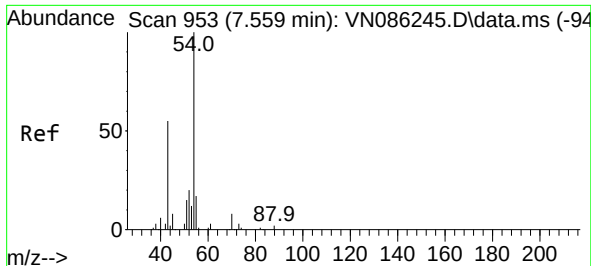
Tgt Ion: 83 Resp: 69713
Ion Ratio Lower Upper
83 100
85 62.7 50.2 75.2
127 7.8 6.2 9.4



#42
Vinyl Acetate
Concen: 98.633 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 616622
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6

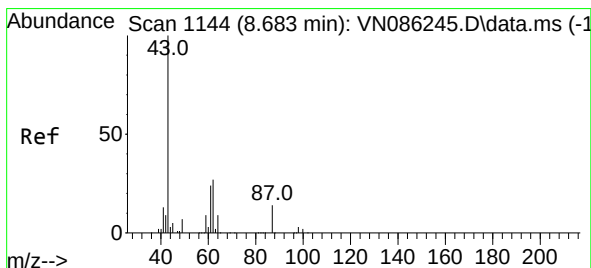
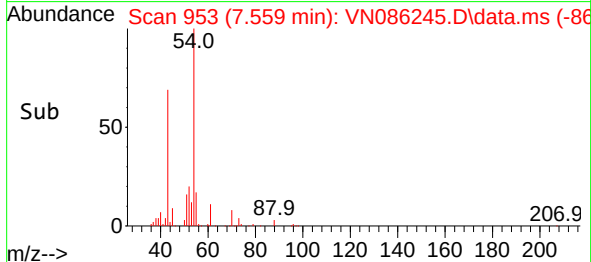
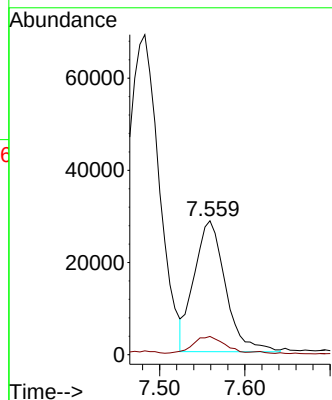
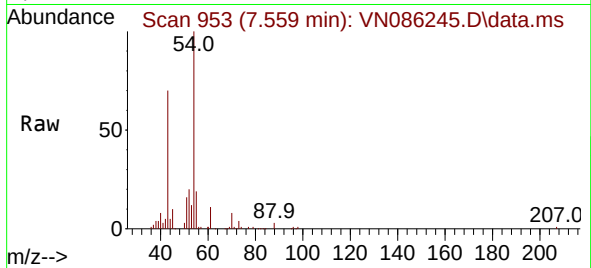




#43
Ethyl Acetate
Concen: 19.607 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

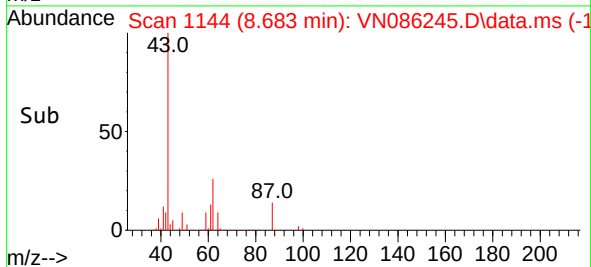
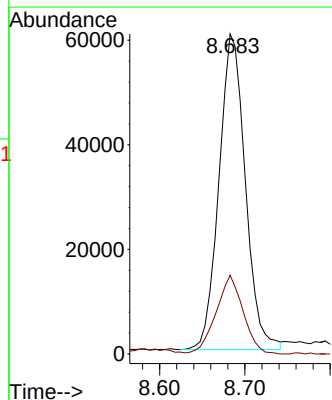
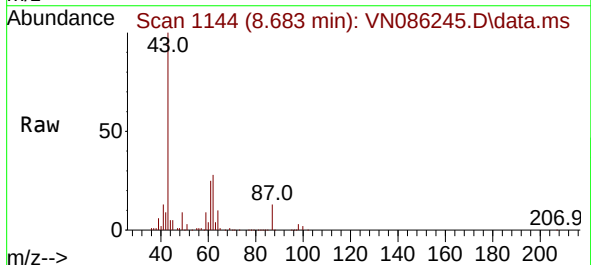
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

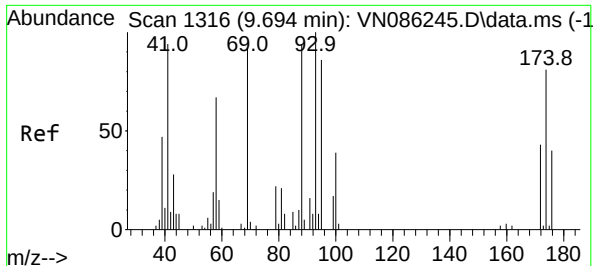
Tgt Ion: 43 Resp: 72635
Ion Ratio Lower Upper
43 100
45 14.0 11.2 16.8



#44
Isopropyl Acetate
Concen: 18.850 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 129543
Ion Ratio Lower Upper
43 100
61 25.6 20.5 30.7

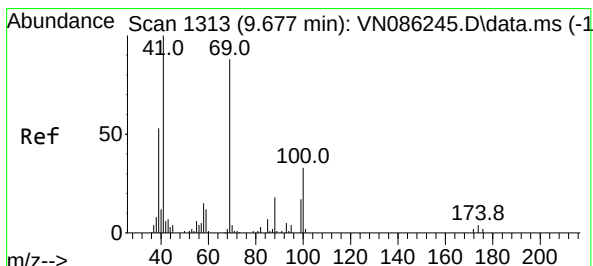
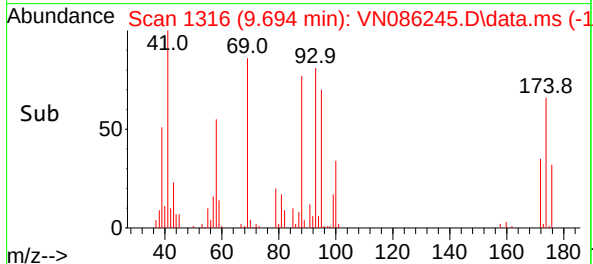
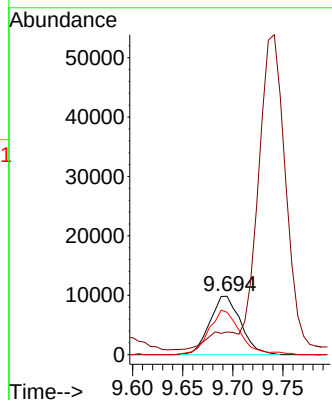
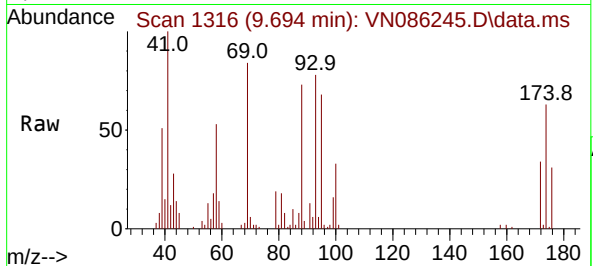




#45
1,4-Dioxane
Concen: 386.736 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

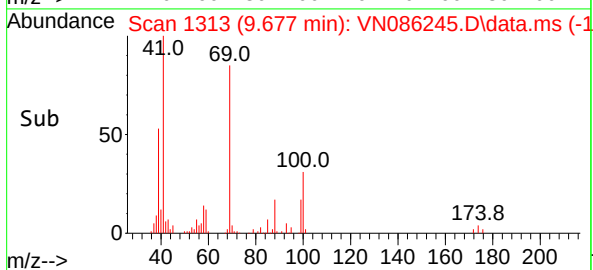
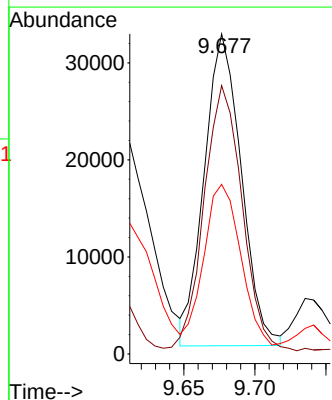
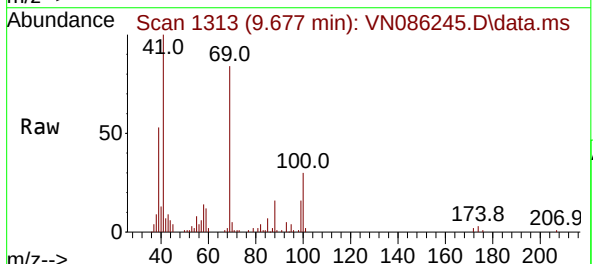
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

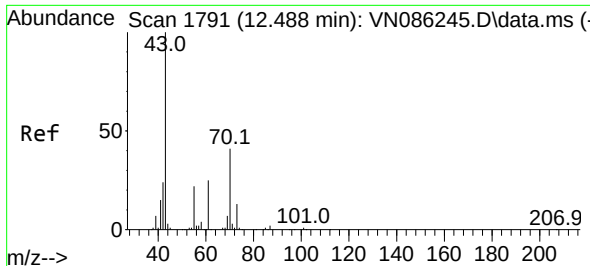
Tgt Ion: 88 Resp: 21134
Ion Ratio Lower Upper
88 100
43 18.0 14.4 21.6
58 74.8 59.8 89.8



#46
Methyl methacrylate
Concen: 19.192 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 41 Resp: 58112
Ion Ratio Lower Upper
41 100
69 86.4 43.2 129.6
39 52.7 26.4 79.0

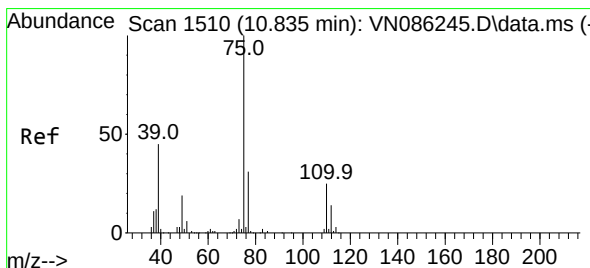
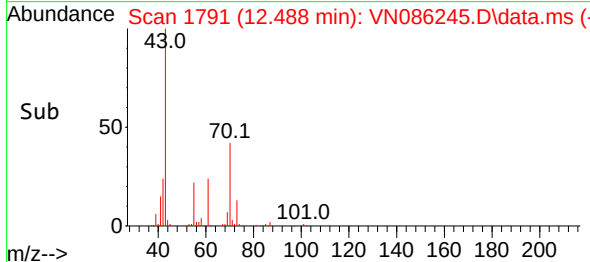
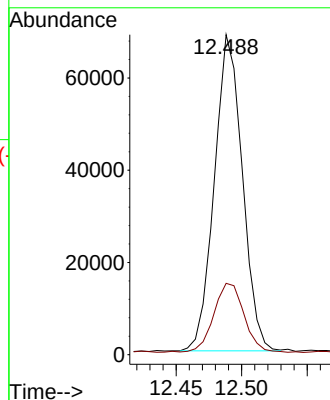
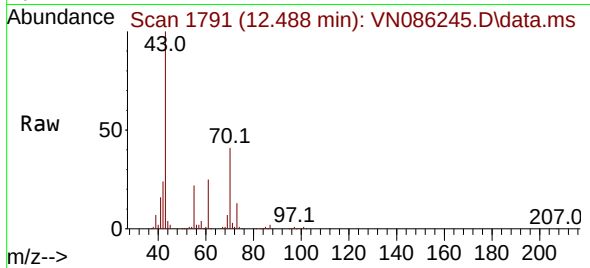




#47
n-amy1 Acetate
Concen: 18.304 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

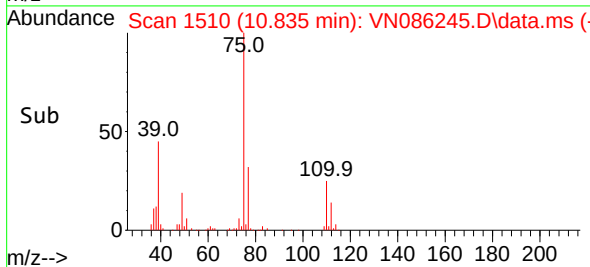
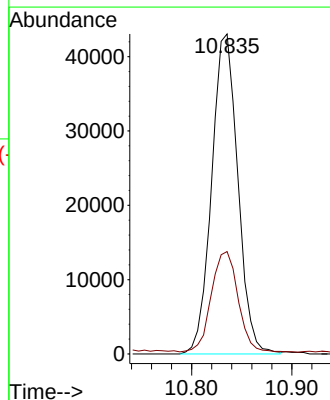
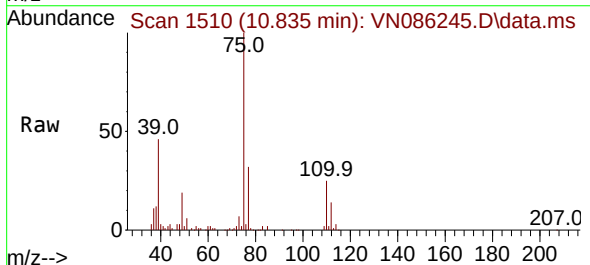
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

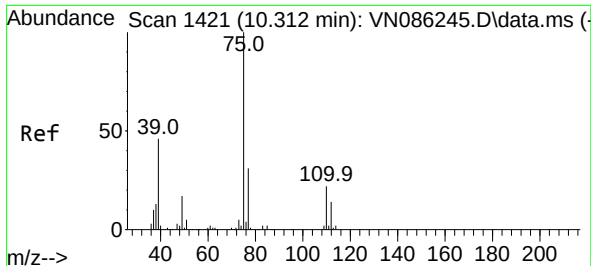
Tgt Ion: 43 Resp: 101635
Ion Ratio Lower Upper
43 100
55 23.7 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 18.977 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 75 Resp: 78104
Ion Ratio Lower Upper
75 100
77 31.4 25.1 37.7

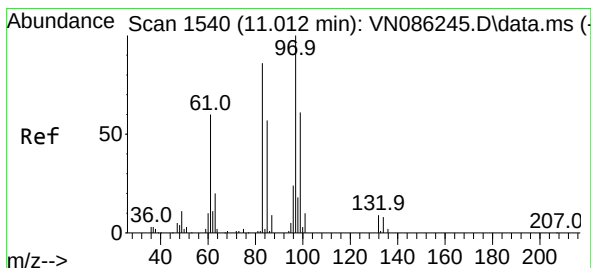
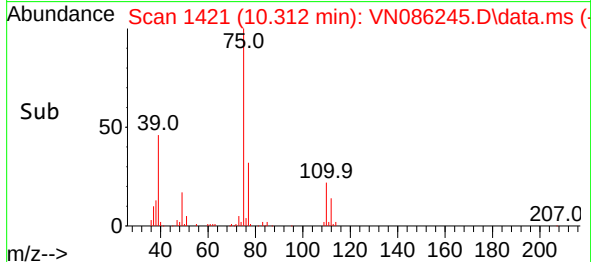
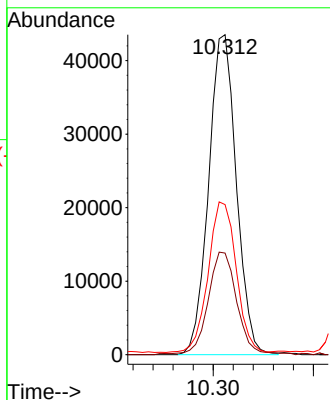
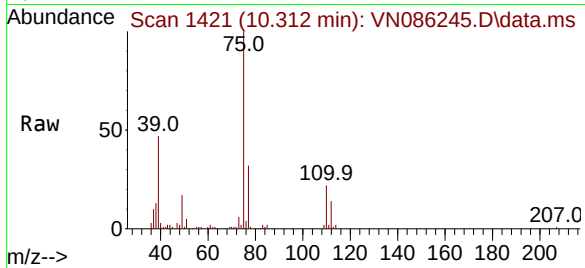




#49
 cis-1,3-Dichloropropene
 Concen: 19.170 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

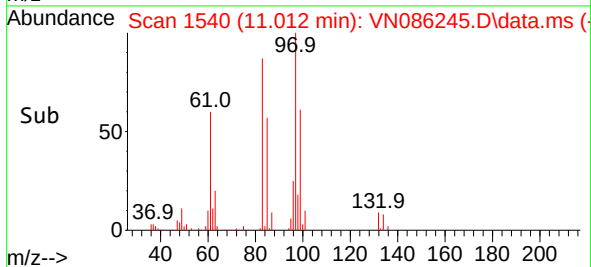
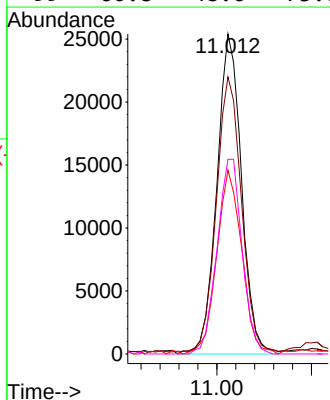
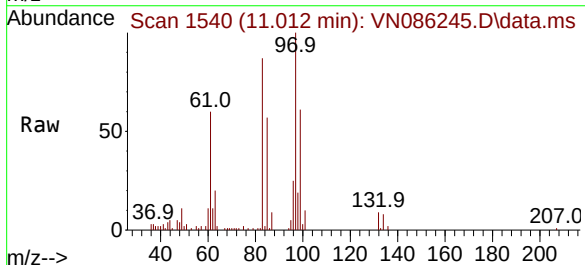
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

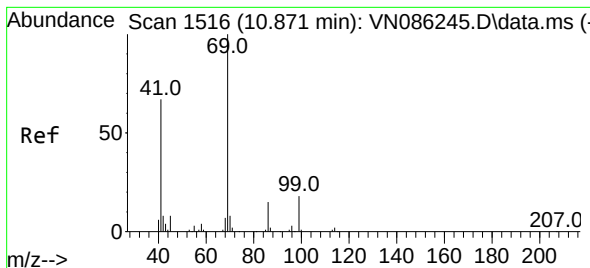
Tgt Ion:	75	Resp:	83505
Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4
39	45.9	36.7	55.1



#50
 1,1,2-Trichloroethane
 Concen: 19.308 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion:	97	Resp:	45892
Ion	Ratio	Lower	Upper
97	100		
83	85.8	68.6	103.0
85	57.4	45.9	68.9
99	60.8	48.6	73.0

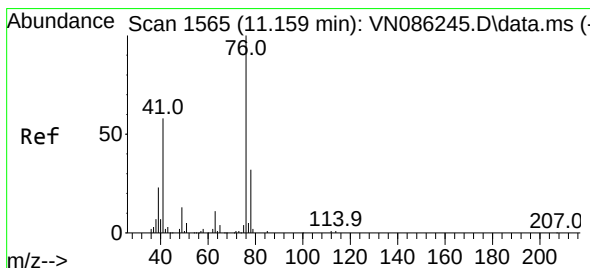
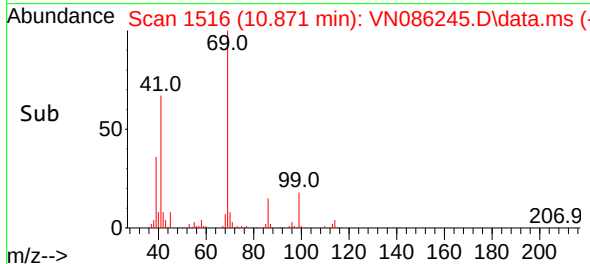
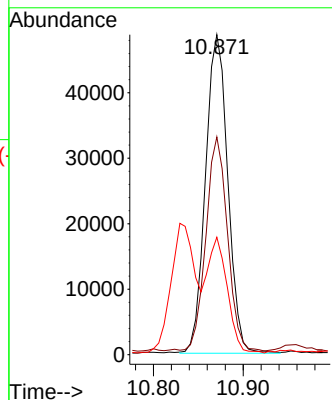
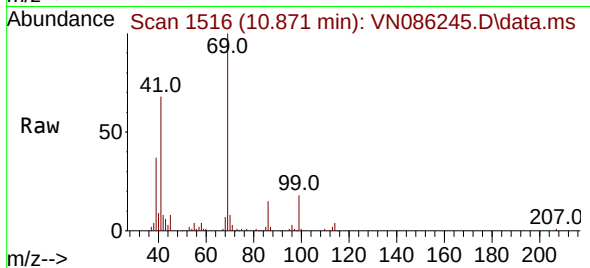




#51
Ethyl methacrylate
Concen: 19.027 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

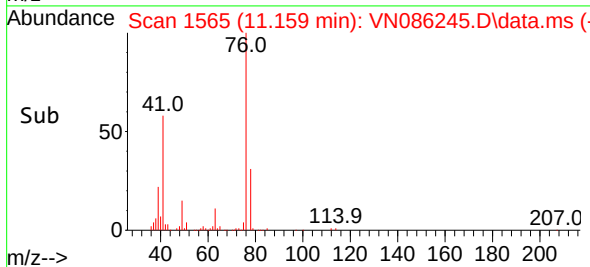
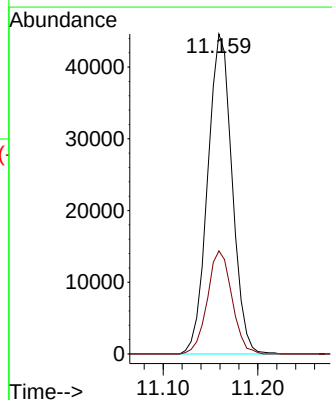
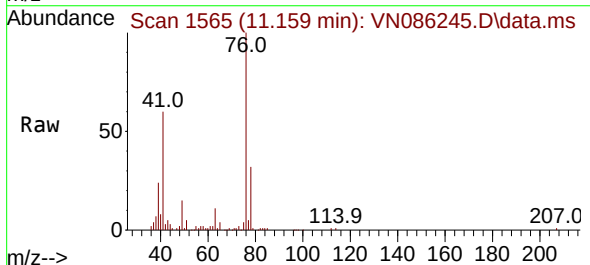
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

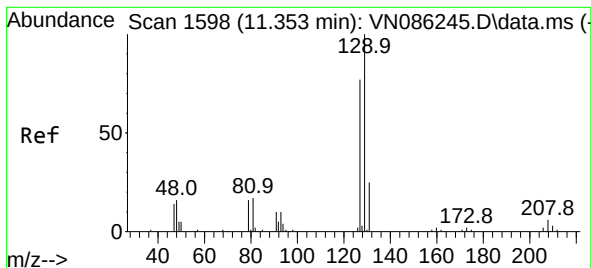
Tgt Ion: 69 Resp: 84042
Ion Ratio Lower Upper
69 100
41 67.1 33.6 100.6
39 35.6 17.8 53.4



#52
1,3-Dichloropropane
Concen: 18.875 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 76 Resp: 79960
Ion Ratio Lower Upper
76 100
78 32.3 0.0 64.6





#53

Dibromochloromethane

Concen: 19.190 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

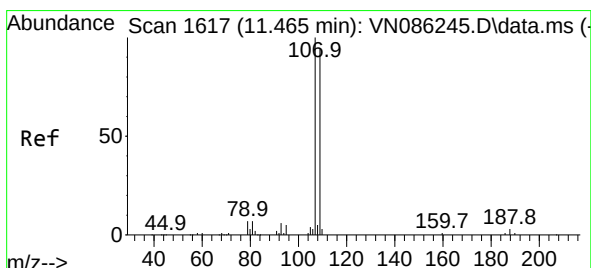
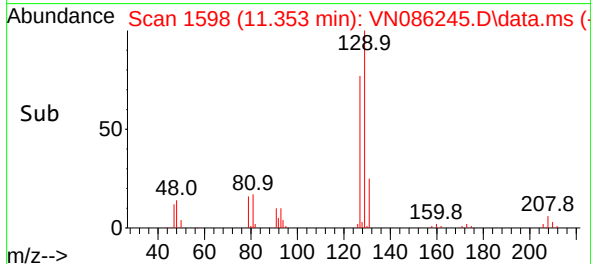
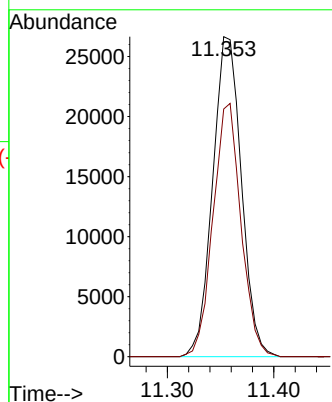
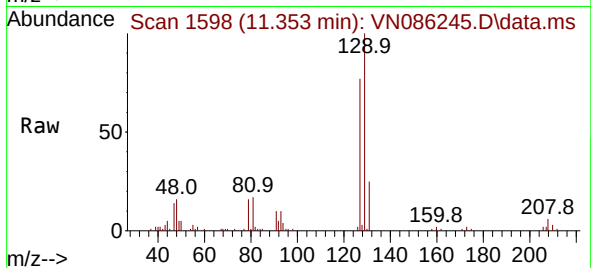
VSTDICCC020

Tgt Ion:129 Resp: 49892

Ion Ratio Lower Upper

129 100

127 77.0 38.5 115.5



#54

1,2-Dibromoethane

Concen: 19.034 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. 0.000 min

Lab File: VN086245.D

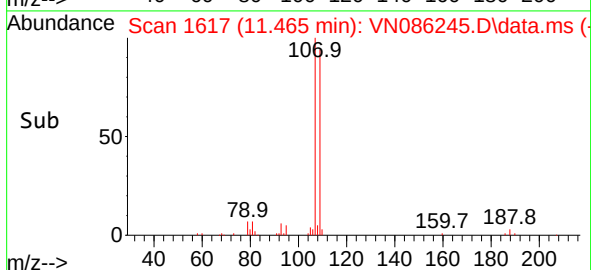
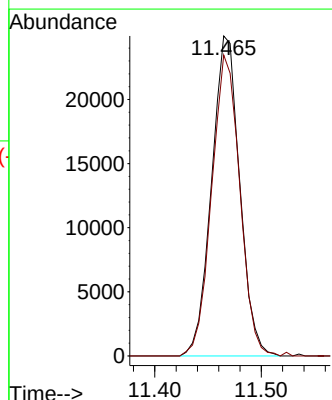
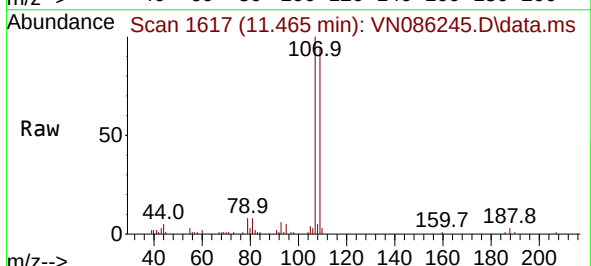
Acq: 11 Apr 2025 12:16

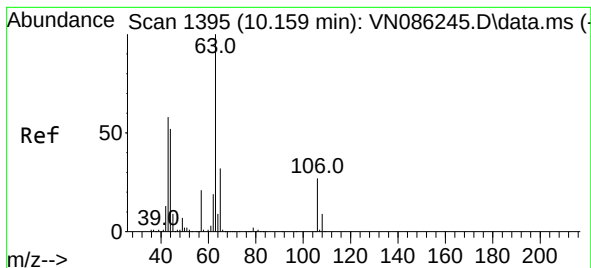
Tgt Ion:107 Resp: 45668

Ion Ratio Lower Upper

107 100

109 94.0 75.2 112.8

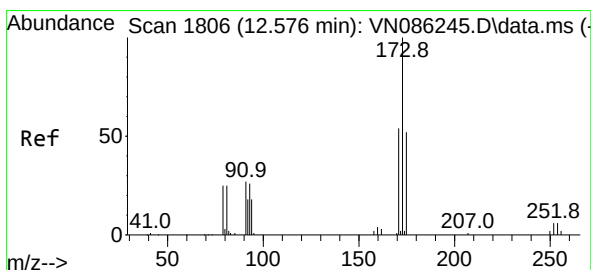
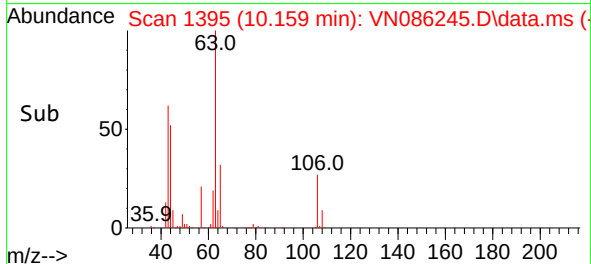
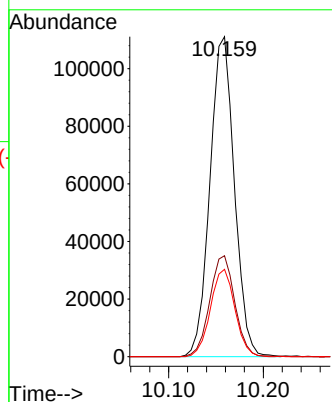
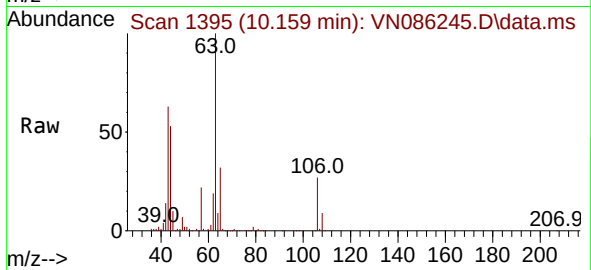




#55
2-Chloroethyl vinyl ether
Concen: 119.582 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

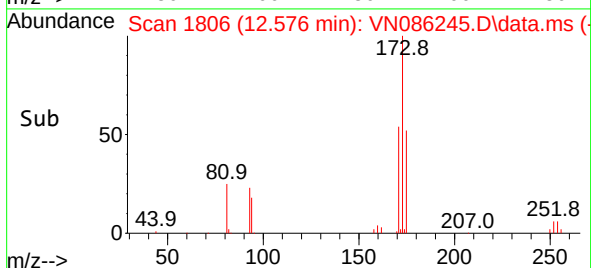
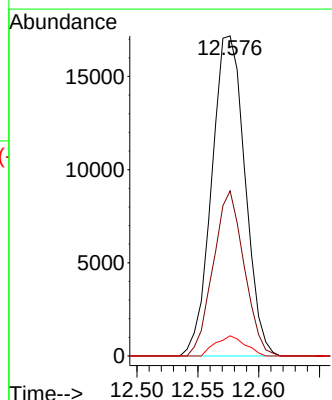
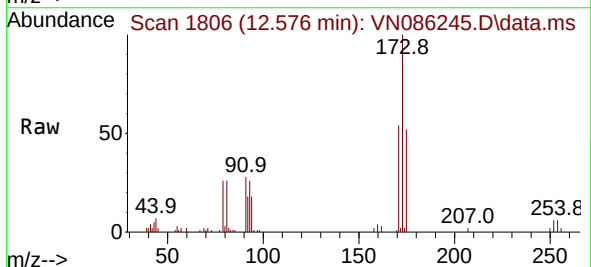
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

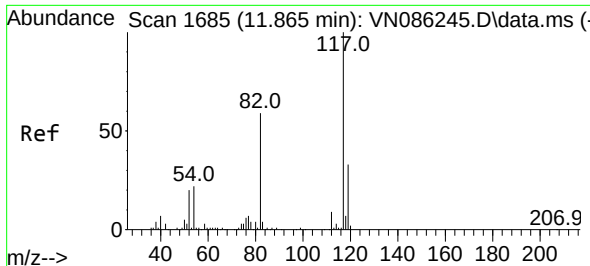
Tgt Ion: 63 Resp: 199584
Ion Ratio Lower Upper
63 100
65 32.3 25.8 38.8
106 27.3 21.8 32.8



#56
Bromoform
Concen: 19.173 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 173 Resp: 32612
Ion Ratio Lower Upper
173 100
175 47.8 38.2 57.4
254 5.6 4.5 6.7

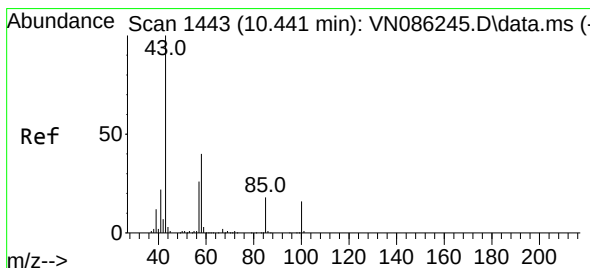
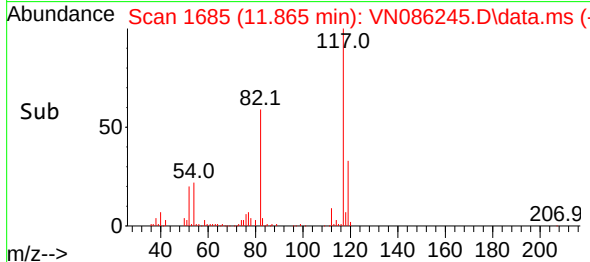
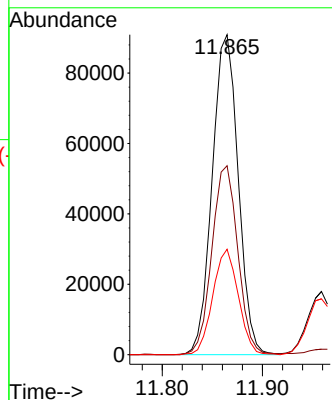
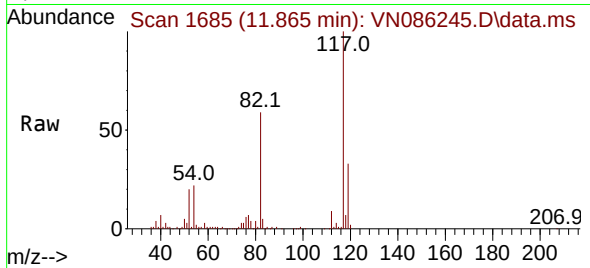




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

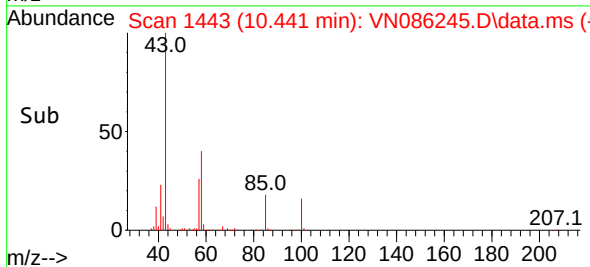
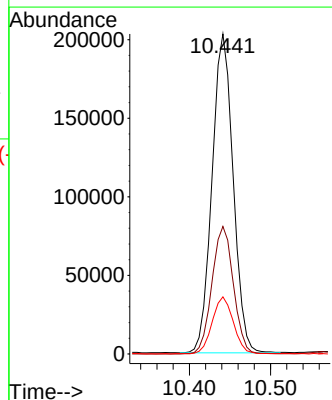
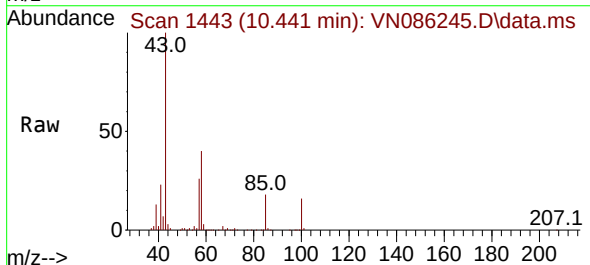
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

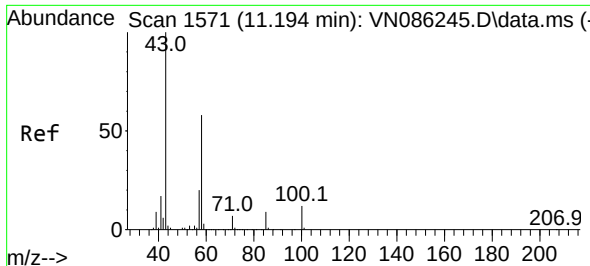
Tgt Ion:117 Resp: 163907
Ion Ratio Lower Upper
117 100
82 59.1 47.3 70.9
119 32.4 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 98.554 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 366576
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 18.0 14.4 21.6

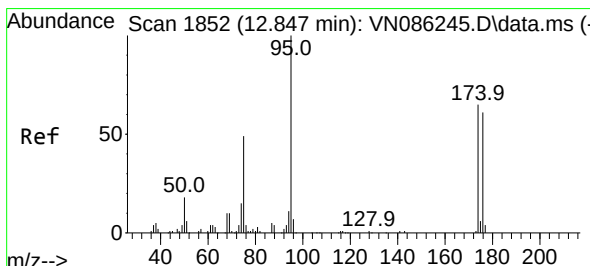
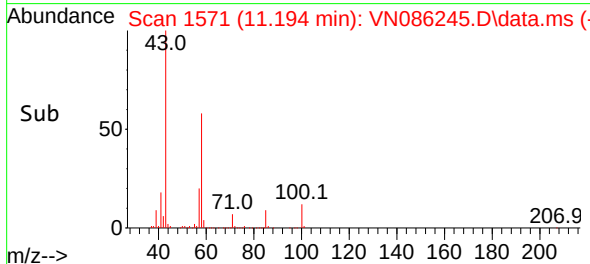
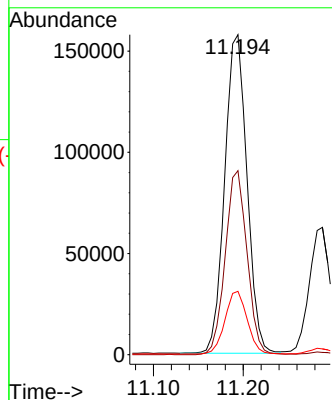
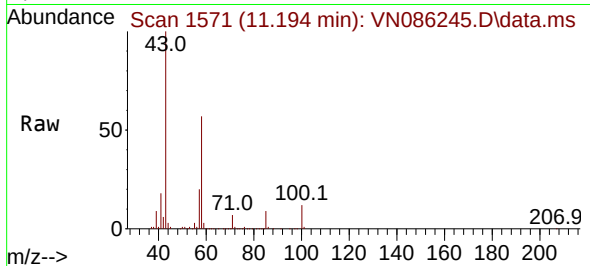




#59
2-Hexanone
Concen: 97.984 ug/l
RT: 11.194 min Scan# 1117
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

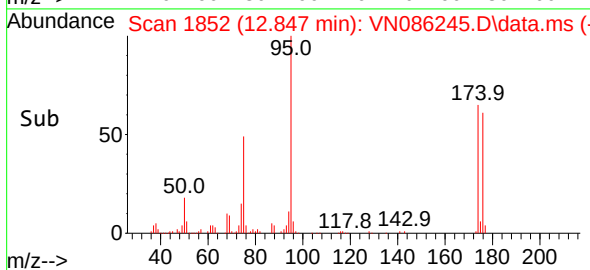
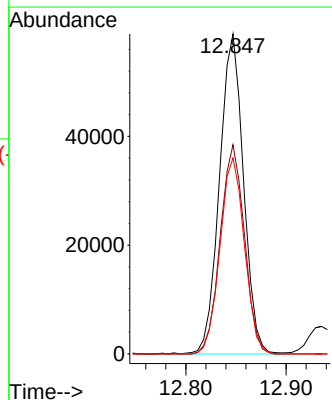
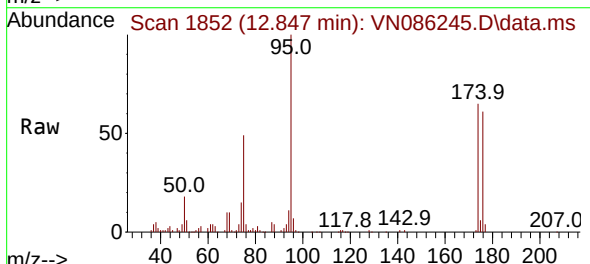
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

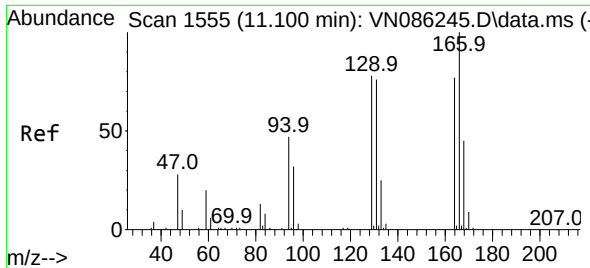
Tgt Ion: 43 Resp: 271384
Ion Ratio Lower Upper
43 100
58 56.6 45.3 67.9
57 19.7 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 29.820 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 95 Resp: 97314
Ion Ratio Lower Upper
95 100
174 65.9 52.7 79.1
176 62.3 49.8 74.8

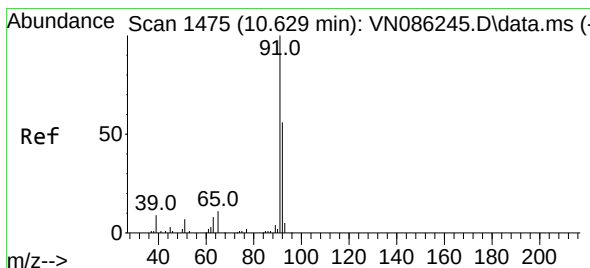
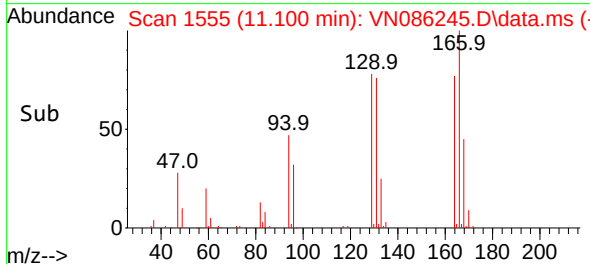
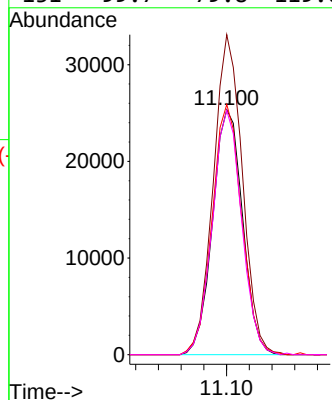
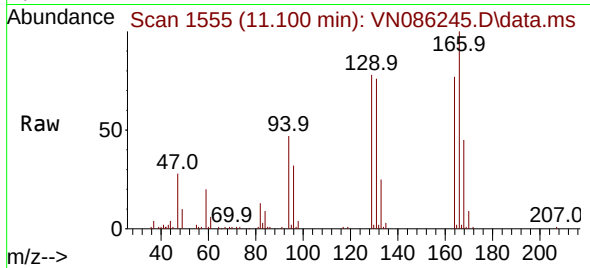




#61
Tetrachloroethene
Concen: 19.134 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

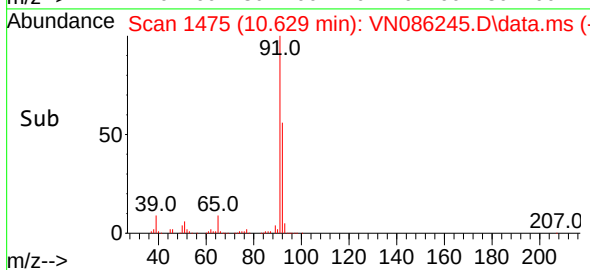
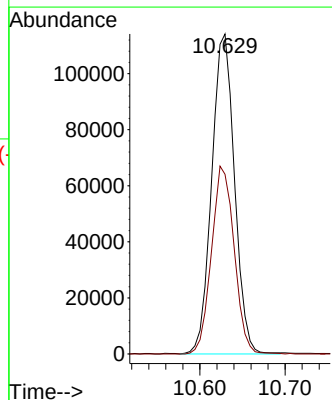
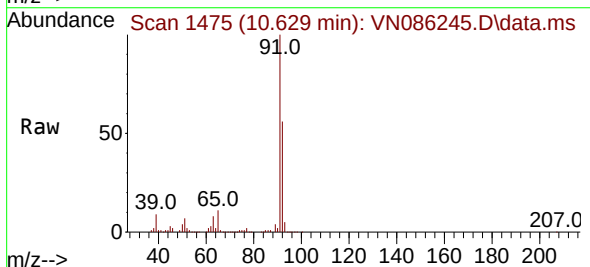
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

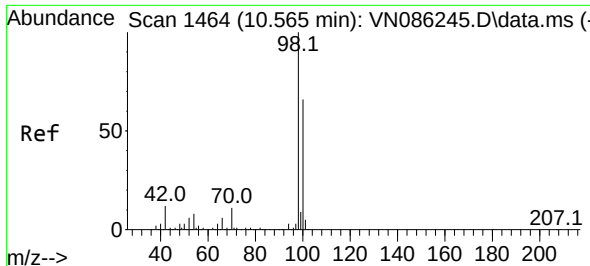
Tgt Ion:164 Resp: 46313
Ion Ratio Lower Upper
164 100
166 130.6 104.5 156.7
129 102.1 81.7 122.5
131 99.7 79.8 119.6



#62
Toluene
Concen: 19.292 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 212088
Ion Ratio Lower Upper
91 100
92 58.5 46.8 70.2

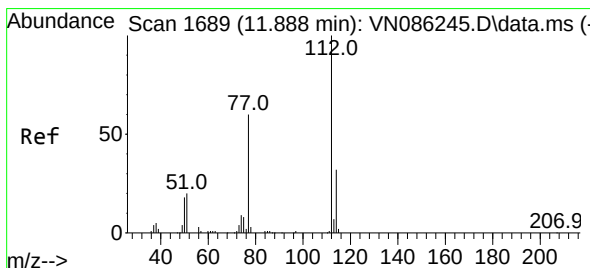
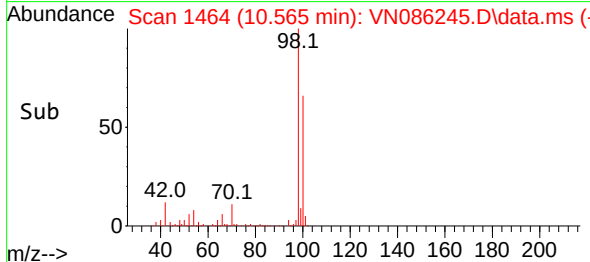
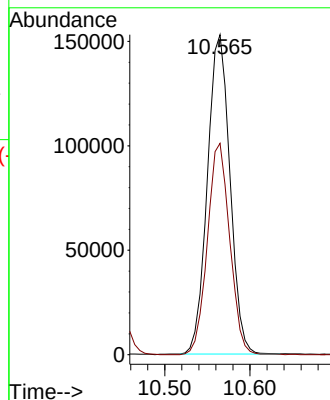
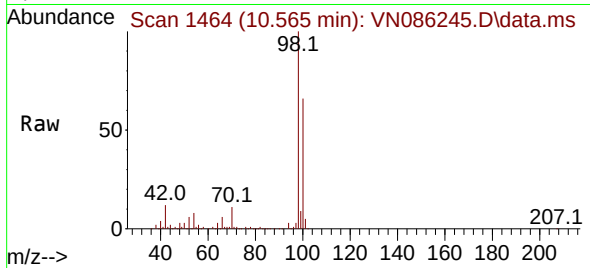




#63
Toluene-d8
Concen: 30.431 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

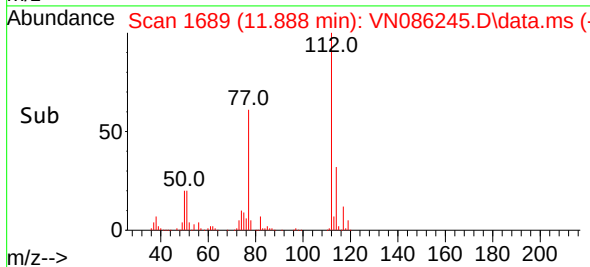
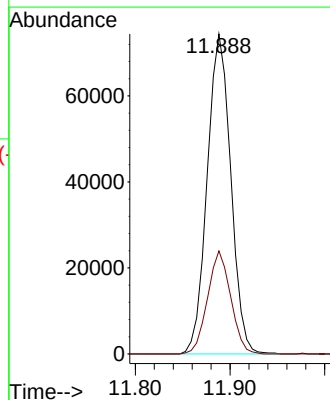
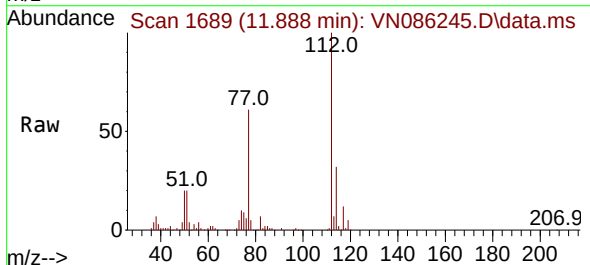
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

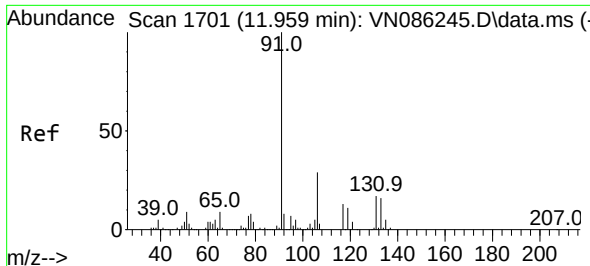
Tgt Ion: 98 Resp: 281589
Ion Ratio Lower Upper
98 100
100 65.4 52.3 78.5



#64
Chlorobenzene
Concen: 19.188 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 112 Resp: 128877
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6

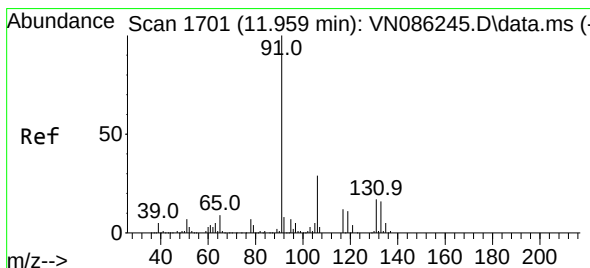
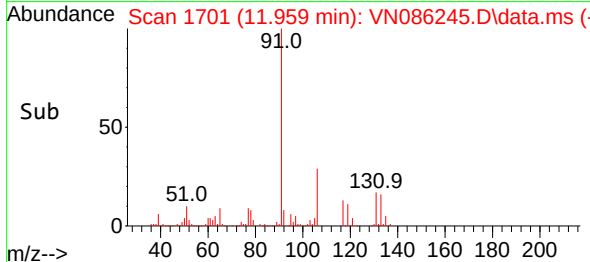
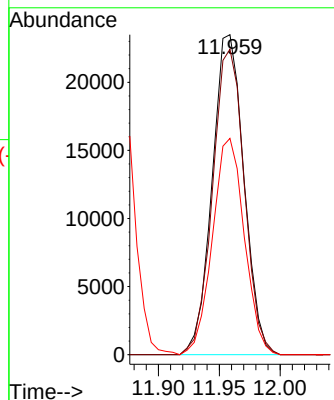
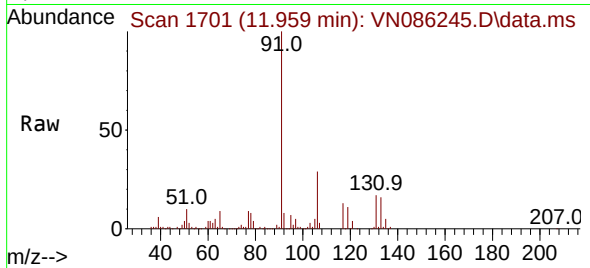




#65
 1,1,1,2-Tetrachloroethane
 Concen: 19.244 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

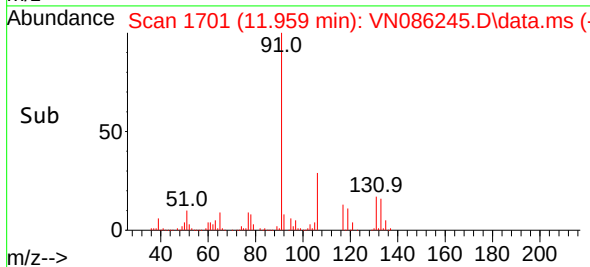
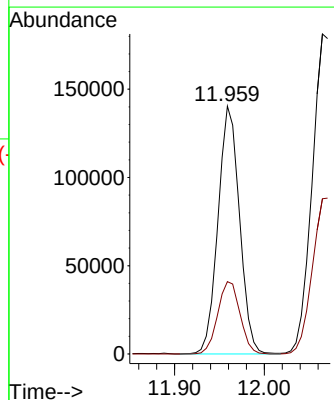
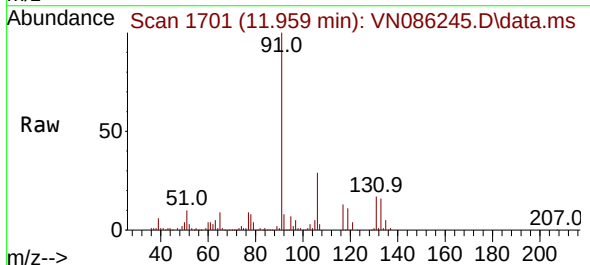
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

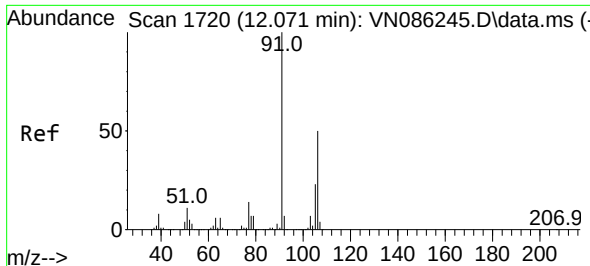
Tgt Ion:131 Resp: 42656
 Ion Ratio Lower Upper
 131 100
 133 95.2 0.0 190.4
 119 67.8 0.0 135.6



#66
 Ethyl Benzene
 Concen: 19.177 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 233805
 Ion Ratio Lower Upper
 91 100
 106 29.2 23.4 35.0

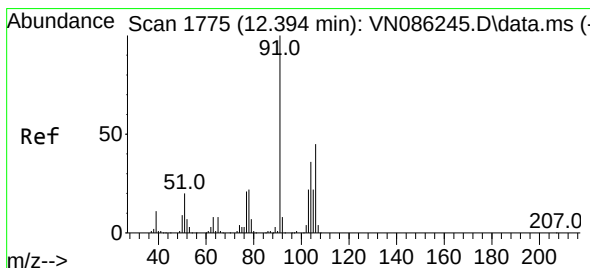
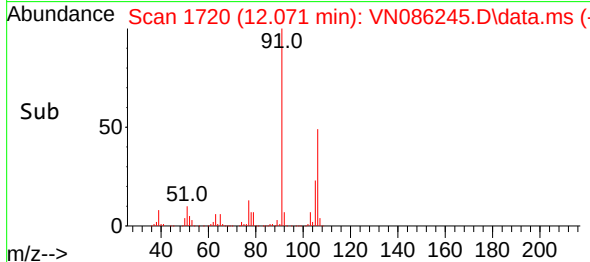
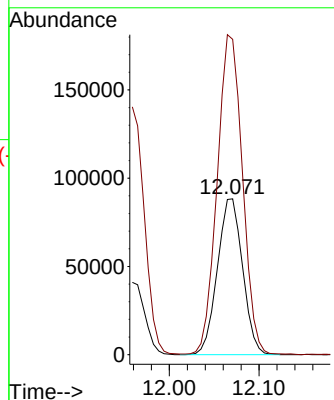
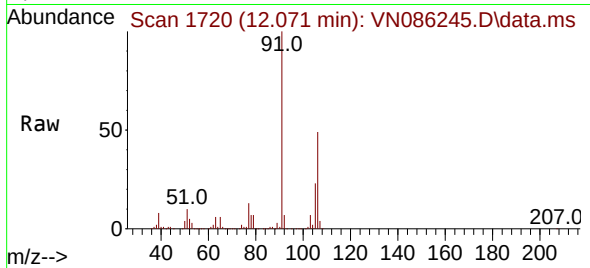




#67
m/p-Xylenes
Concen: 38.024 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

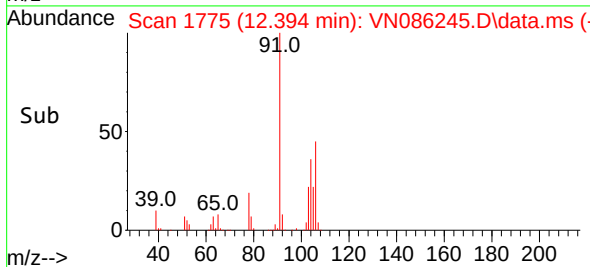
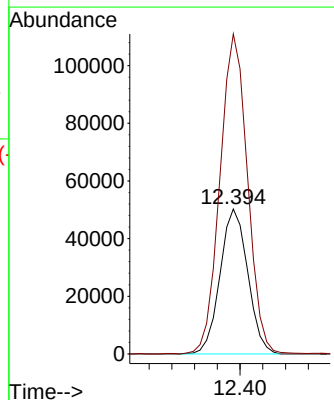
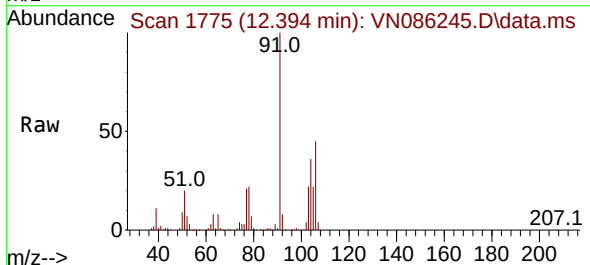
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

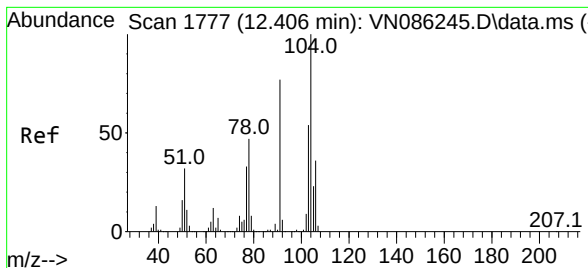
Tgt Ion:106 Resp: 172384
Ion Ratio Lower Upper
106 100
91 205.6 164.5 246.7



#68
o-Xylene
Concen: 19.101 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:106 Resp: 85173
Ion Ratio Lower Upper
106 100
91 219.6 109.8 329.4





#69

Styrene

Concen: 18.793 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

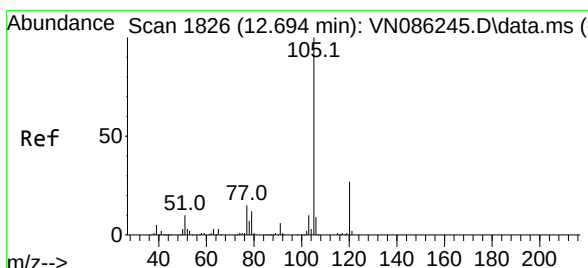
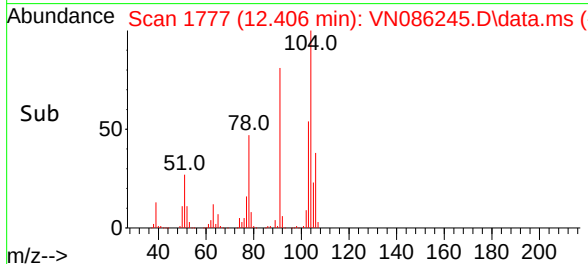
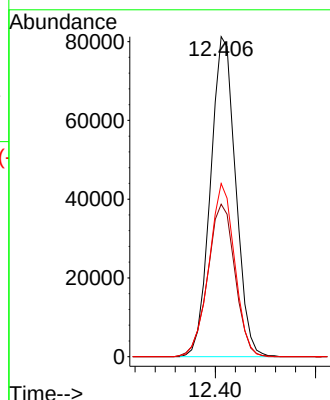
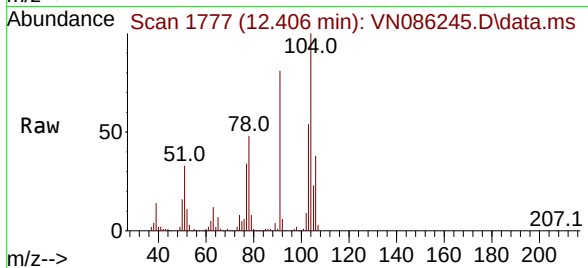
Tgt Ion:104 Resp: 141327

Ion Ratio Lower Upper

104 100

78 51.7 41.4 62.0

103 55.3 44.2 66.4



#70

Isopropylbenzene

Concen: 19.057 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086245.D

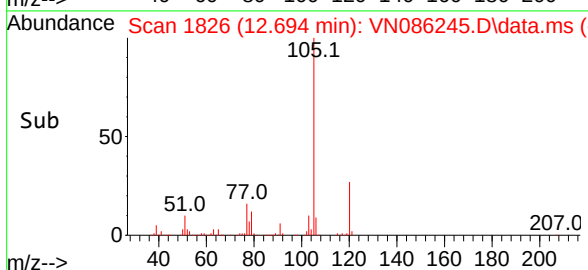
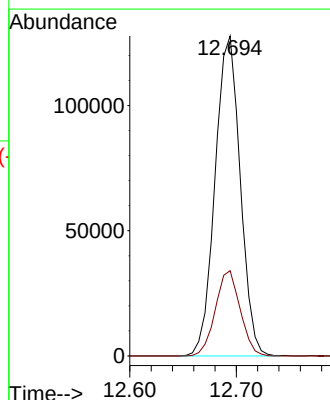
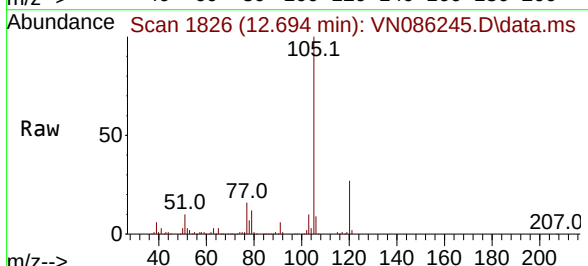
Acq: 11 Apr 2025 12:16

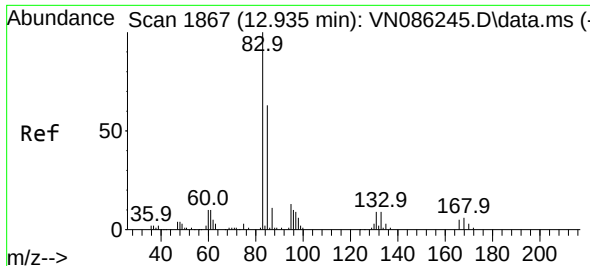
Tgt Ion:105 Resp: 209526

Ion Ratio Lower Upper

105 100

120 26.2 18.3 34.1

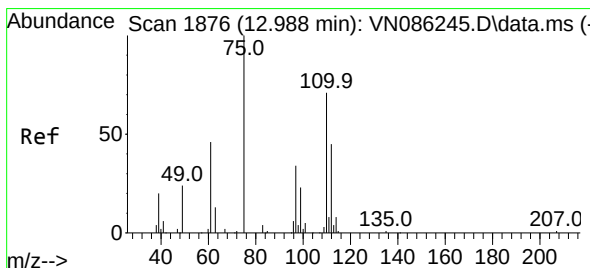
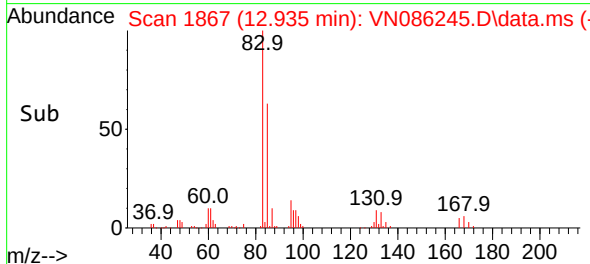
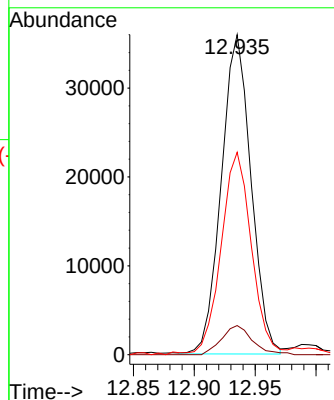
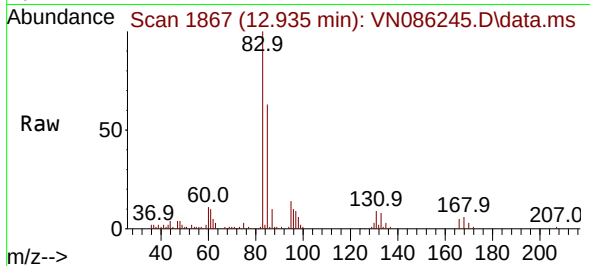




#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.472 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

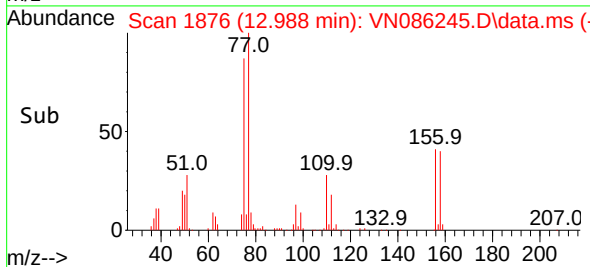
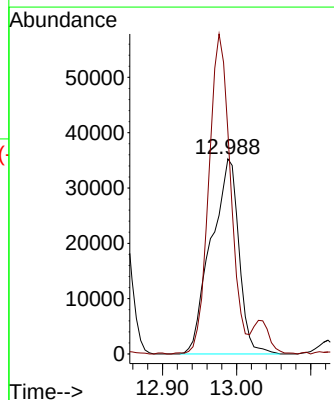
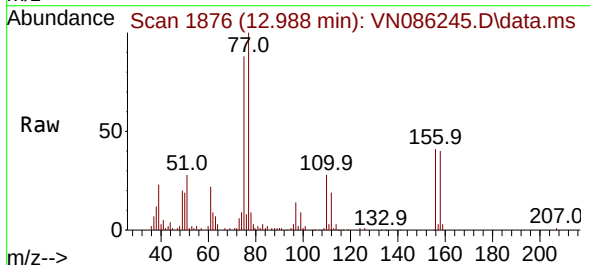
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

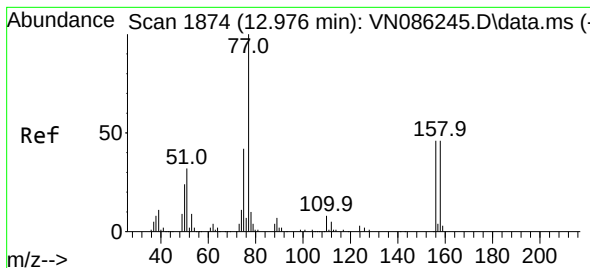
Tgt Ion: 83 Resp: 60936
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.8 14.3
 85 64.5 32.3 96.8



#72
 1,2,3-Trichloropropane
 Concen: 20.734 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion: 75 Resp: 91862
 Ion Ratio Lower Upper
 75 100
 77 128.0 0.0 380.0





#73

Bromobenzene

Concen: 19.116 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

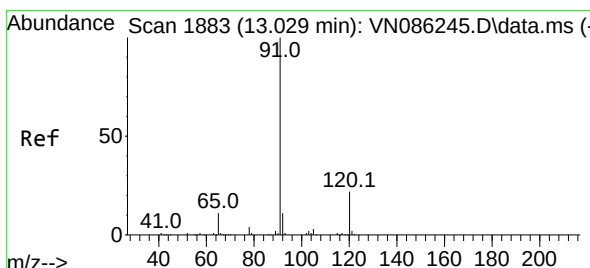
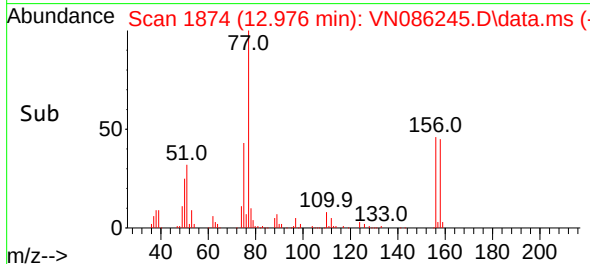
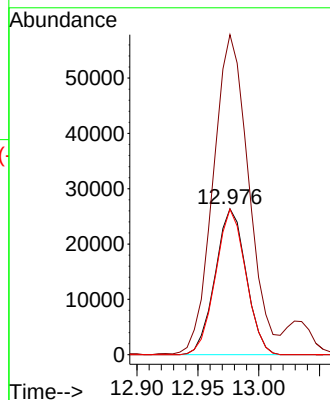
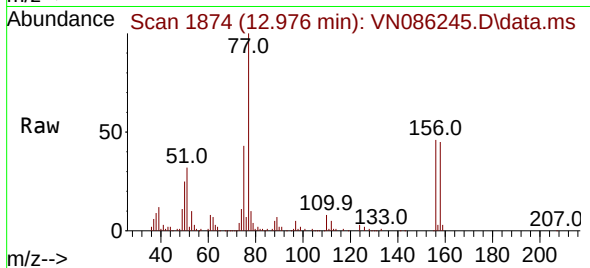
Tgt Ion:156 Resp: 46561

Ion Ratio Lower Upper

156 100

77 252.6 0.0 505.2

158 97.5 0.0 195.0



#74

n-propylbenzene

Concen: 18.707 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. 0.000 min

Lab File: VN086245.D

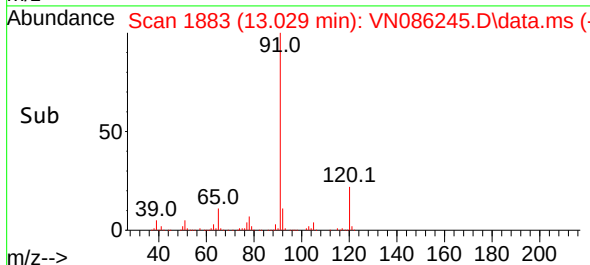
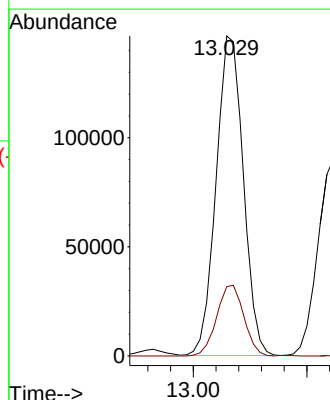
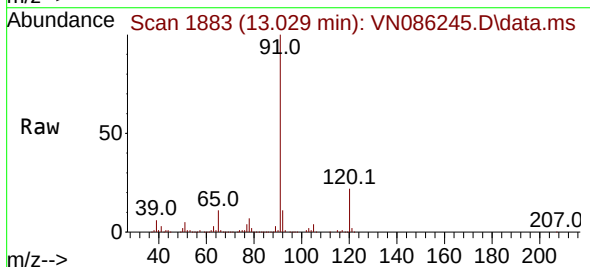
Acq: 11 Apr 2025 12:16

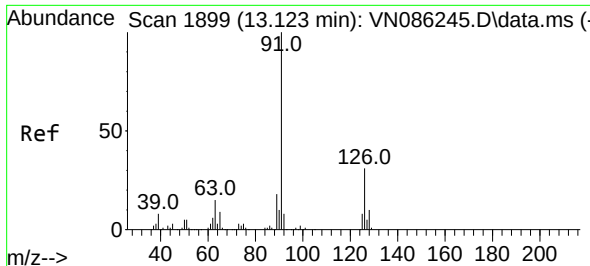
Tgt Ion: 91 Resp: 243573

Ion Ratio Lower Upper

91 100

120 22.1 0.0 44.0

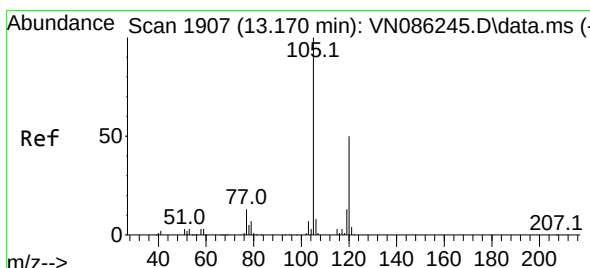
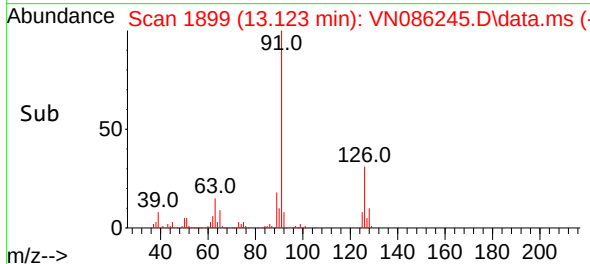
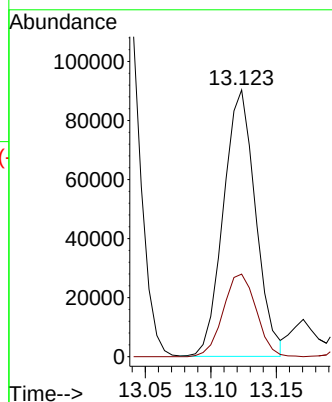
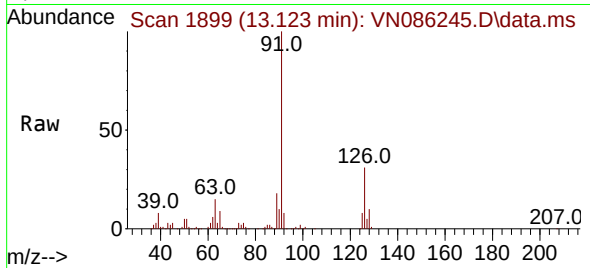




#75
2-Chlorotoluene
Concen: 18.914 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

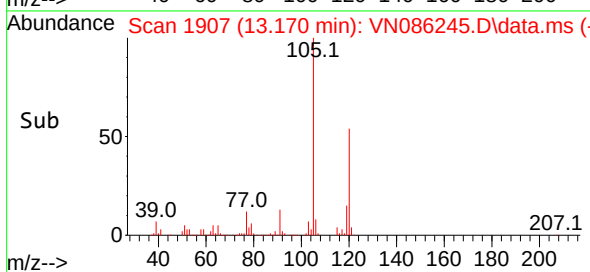
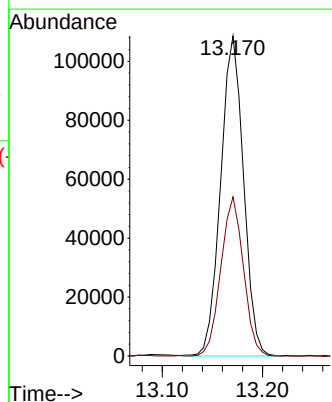
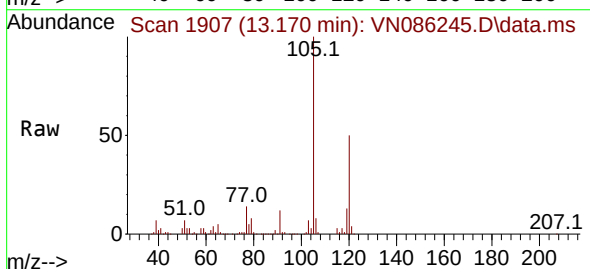
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

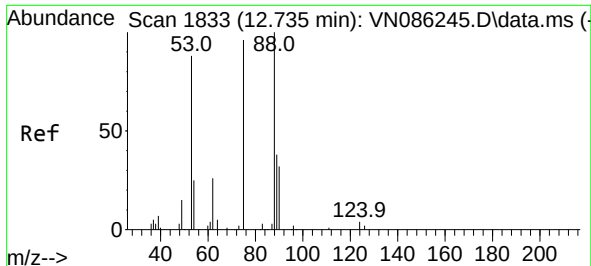
Tgt Ion: 91 Resp: 154341
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.4



#76
1,3,5-Trimethylbenzene
Concen: 19.046 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 105 Resp: 172014
Ion Ratio Lower Upper
105 100
120 49.0 0.0 98.0



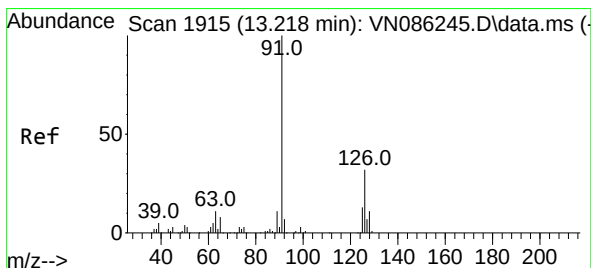
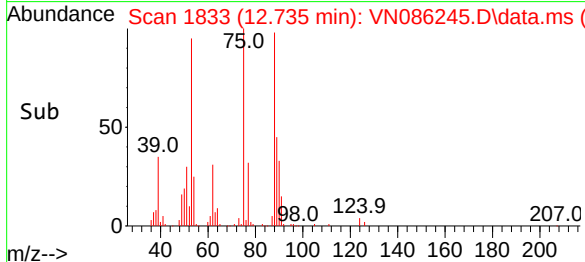
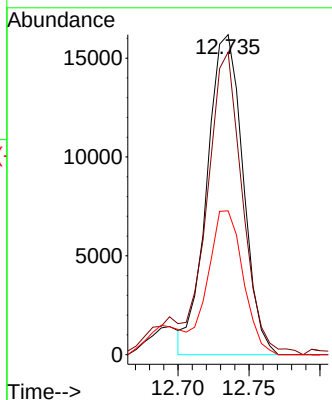
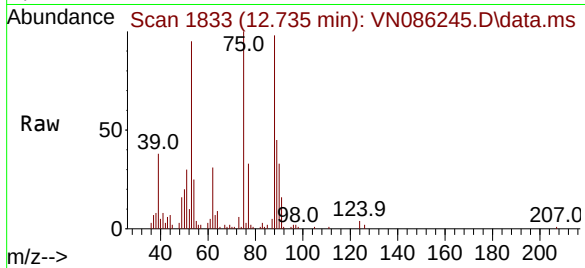


#77
 t-1,4-Dichloro-2-butene
 Concen: 18.993 ug/l
 RT: 12.735 min Scan# 1833
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Tgt Ion: 75 Resp: 28529

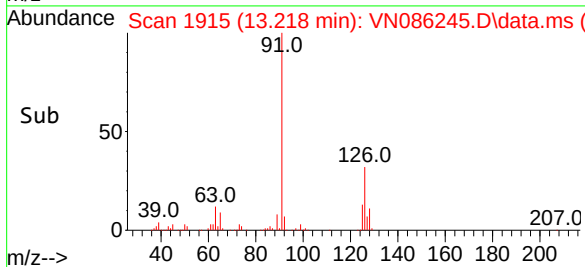
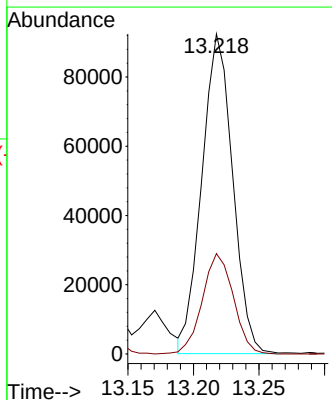
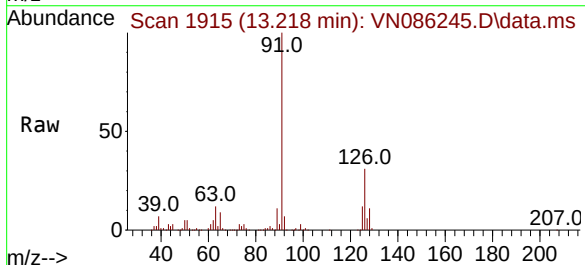
Ion	Ratio	Lower	Upper
75	100		
53	92.8	46.4	139.2
89	45.0	22.5	67.5

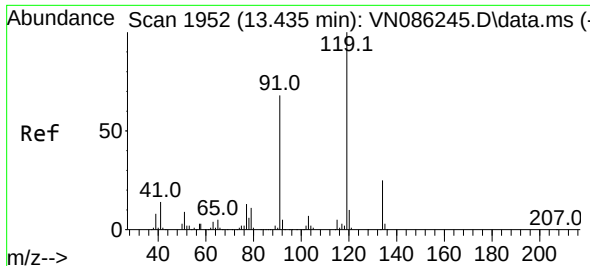


#78
 4-Chlorotoluene
 Concen: 18.539 ug/l
 RT: 13.218 min Scan# 1915
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 151091

Ion	Ratio	Lower	Upper
91	100		
126	31.6	0.0	63.2

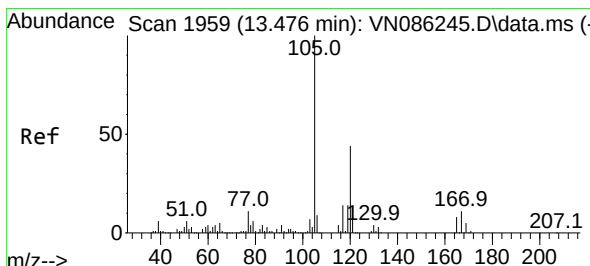
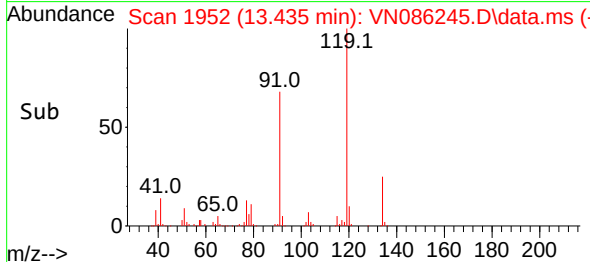
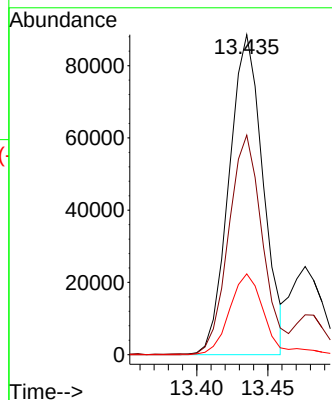
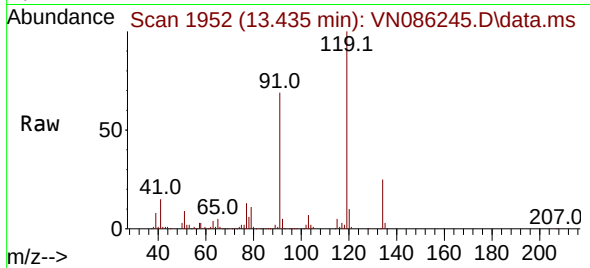




#79
tert-butylbenzene
Concen: 18.865 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

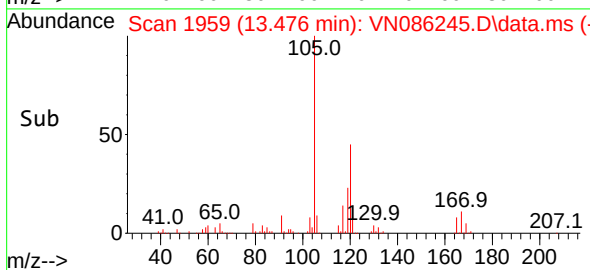
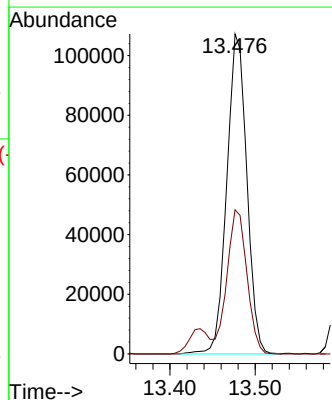
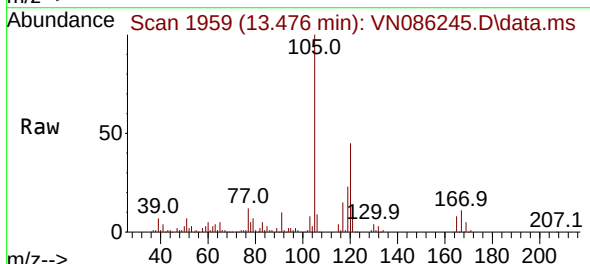
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

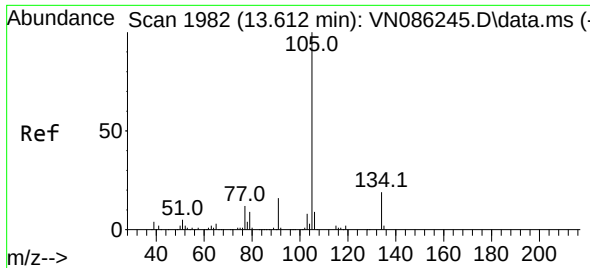
Tgt Ion:119 Resp: 147428
Ion Ratio Lower Upper
119 100
91 68.3 0.0 136.6
134 24.7 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 19.089 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:105 Resp: 174827
Ion Ratio Lower Upper
105 100
120 45.5 0.0 91.0

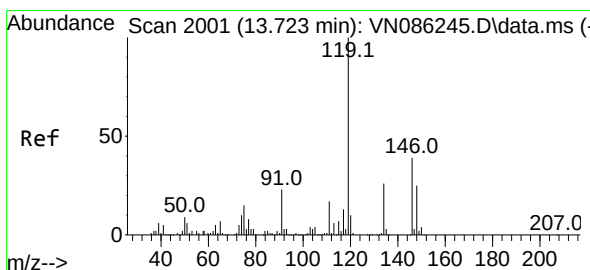
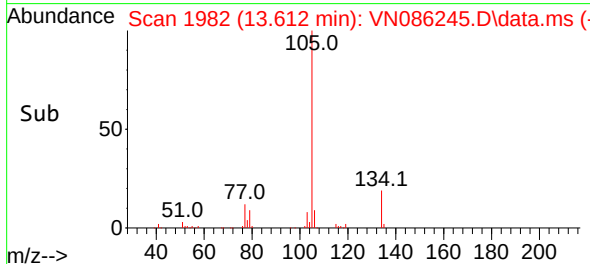
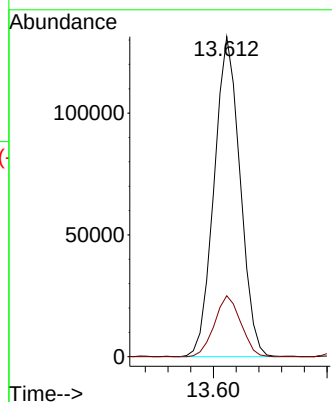
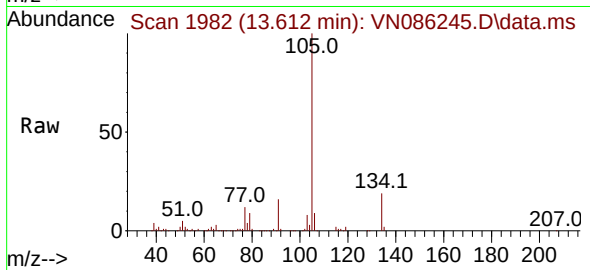




#81
 sec-Butylbenzene
 Concen: 19.134 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

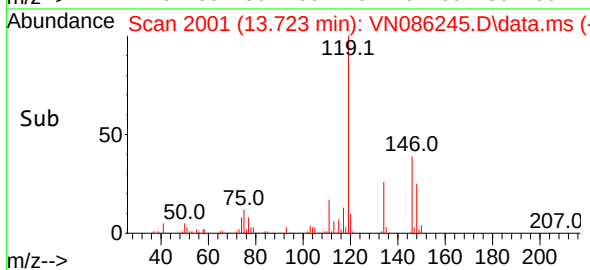
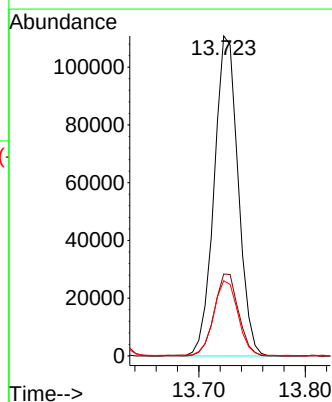
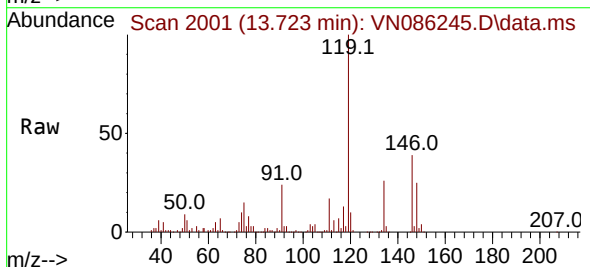
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

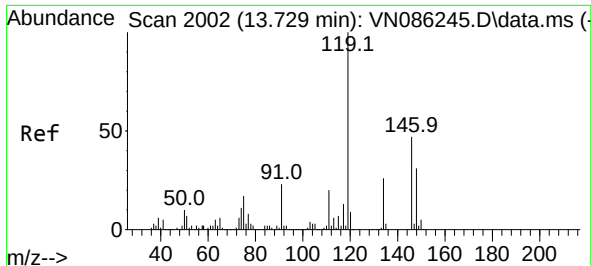
Tgt Ion:105 Resp: 208583
 Ion Ratio Lower Upper
 105 100
 134 19.3 0.0 38.6



#82
 p-Isopropyltoluene
 Concen: 19.037 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion:119 Resp: 173120
 Ion Ratio Lower Upper
 119 100
 134 25.8 0.0 51.6
 91 24.1 0.0 48.2

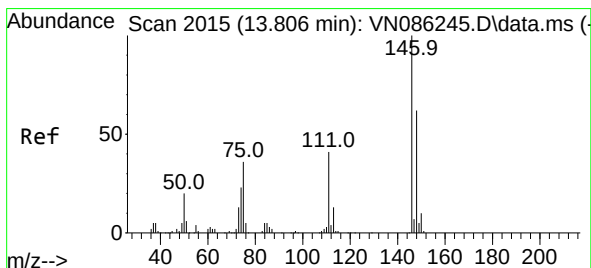
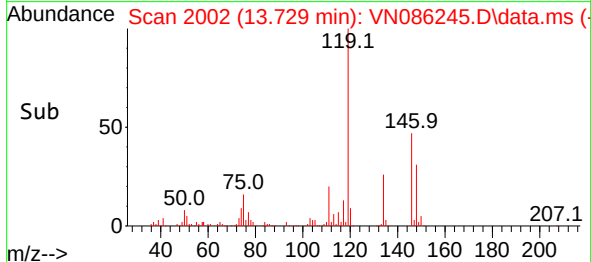
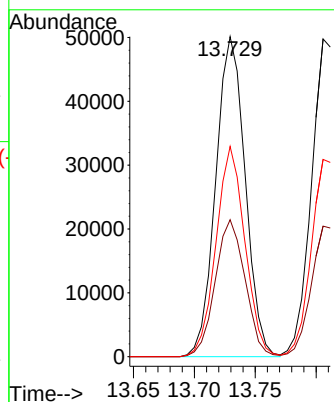
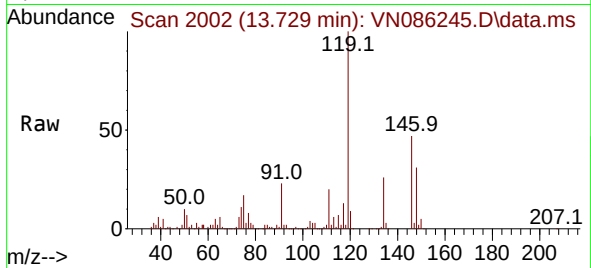




#83
 1,3-Dichlorobenzene
 Concen: 18.662 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

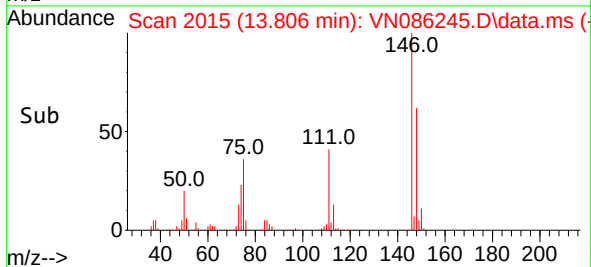
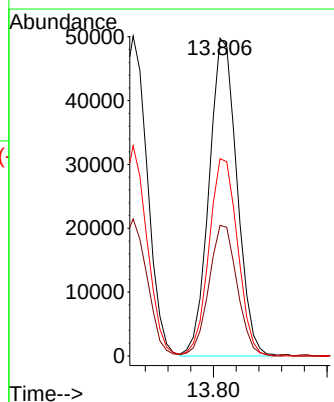
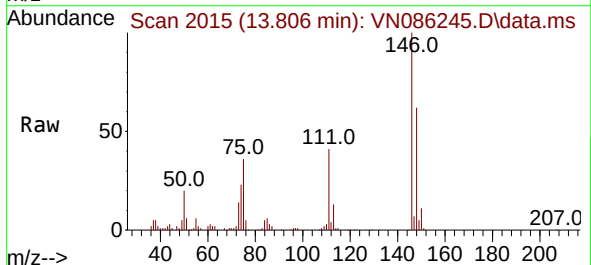
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

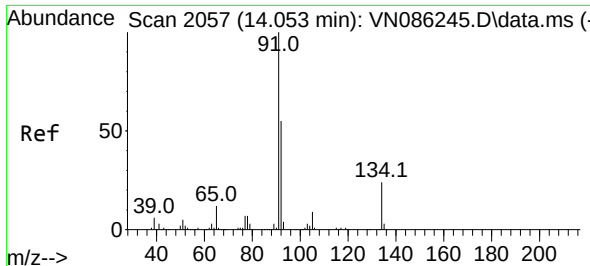
Tgt Ion:146 Resp: 84482
 Ion Ratio Lower Upper
 146 100
 111 43.4 21.7 65.1
 148 64.5 32.3 96.8



#84
 1,4-Dichlorobenzene
 Concen: 18.705 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: VN086245.D
 Acq: 11 Apr 2025 12:16

Tgt Ion:146 Resp: 84947
 Ion Ratio Lower Upper
 146 100
 111 41.6 20.8 62.4
 148 63.7 31.9 95.5

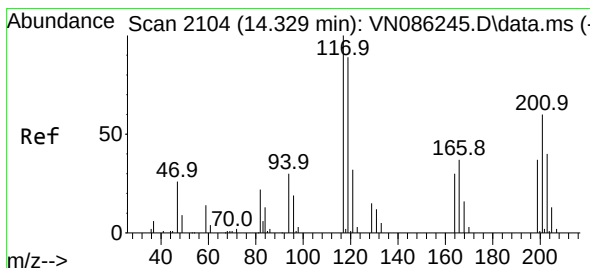
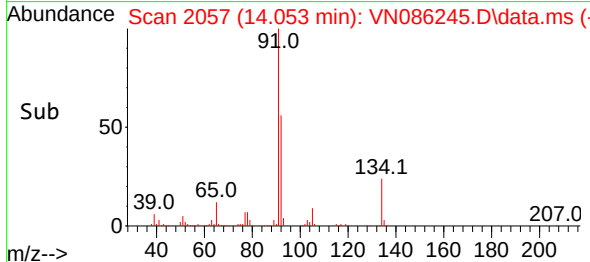
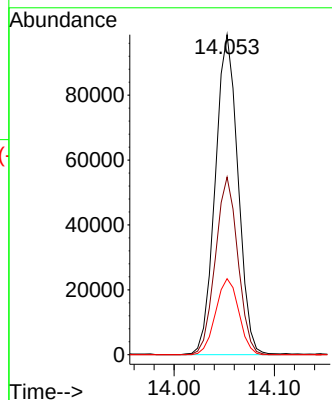
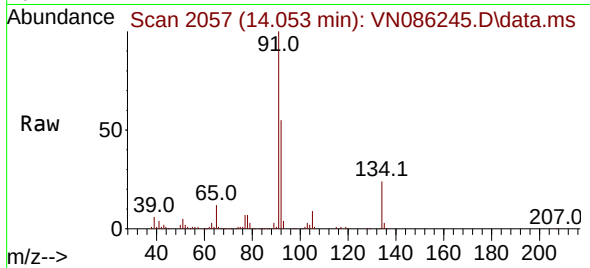




#85
n-Butylbenzene
Concen: 18.919 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

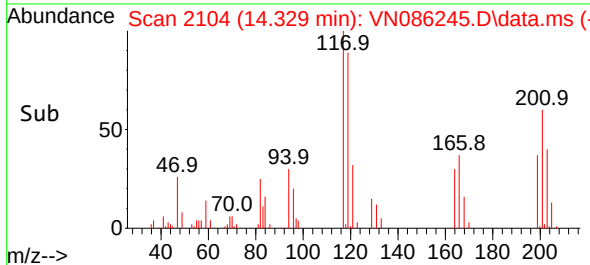
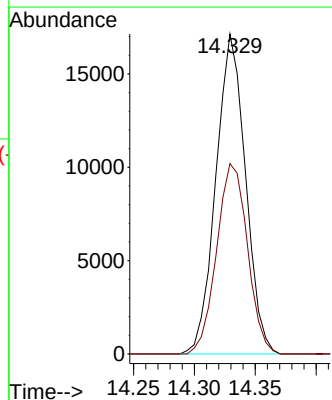
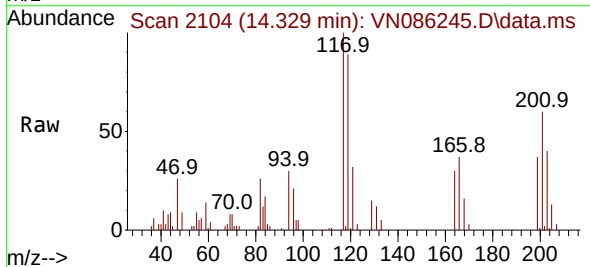
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

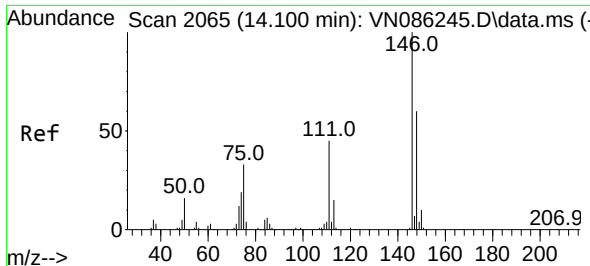
Tgt Ion: 91 Resp: 155208
Ion Ratio Lower Upper
91 100
92 54.7 0.0 109.4
134 24.1 0.0 48.2



#86
Hexachloroethane
Concen: 18.910 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 117 Resp: 29008
Ion Ratio Lower Upper
117 100
201 61.9 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 19.018 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

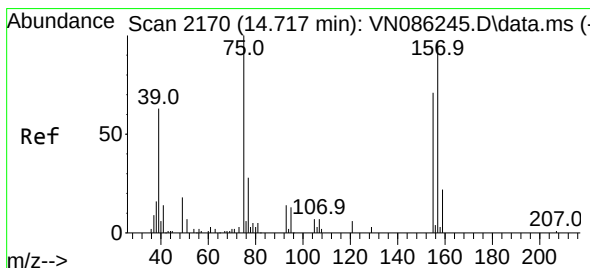
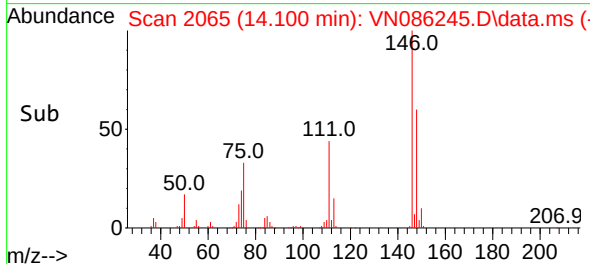
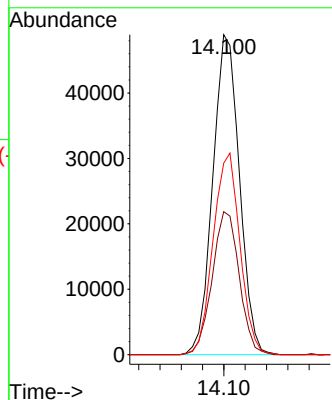
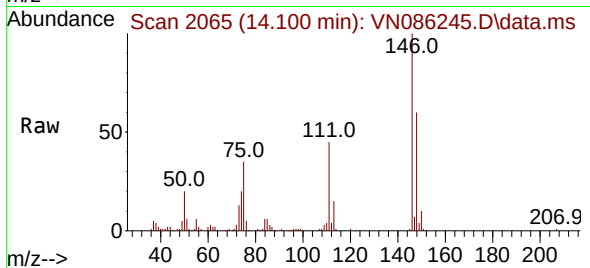
Tgt Ion:146 Resp: 85009

Ion Ratio Lower Upper

146 100

111 45.3 22.7 68.0

148 63.5 31.8 95.3



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.684 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

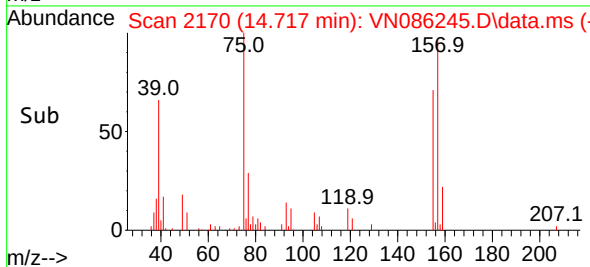
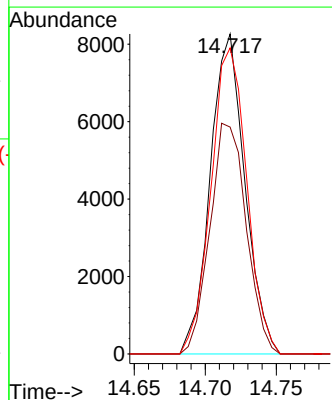
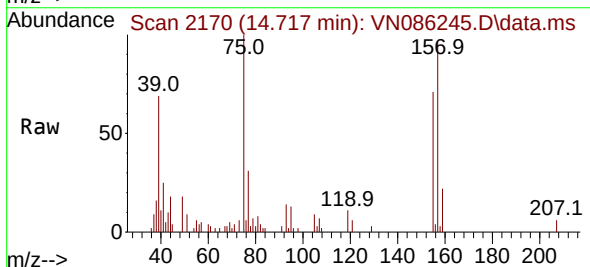
Tgt Ion: 75 Resp: 14031

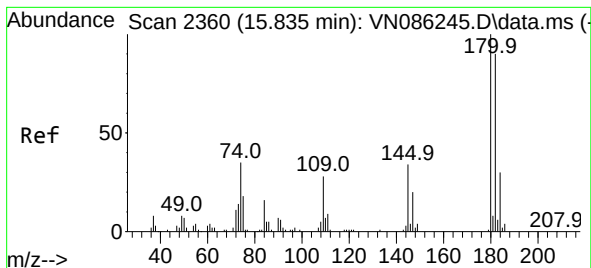
Ion Ratio Lower Upper

75 100

155 75.4 60.3 90.5

157 98.7 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 20.183 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

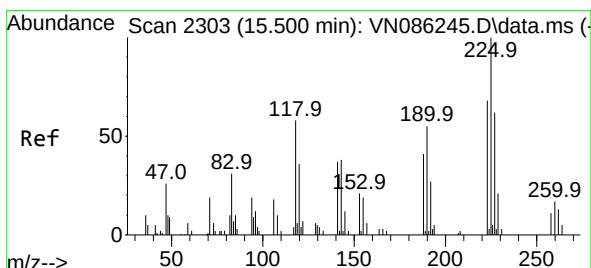
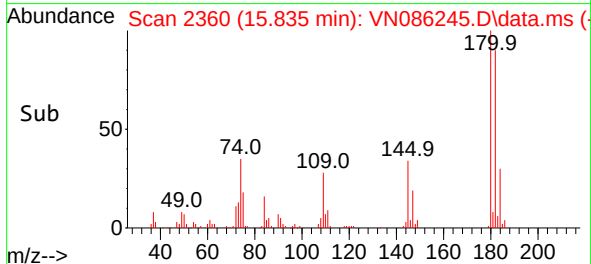
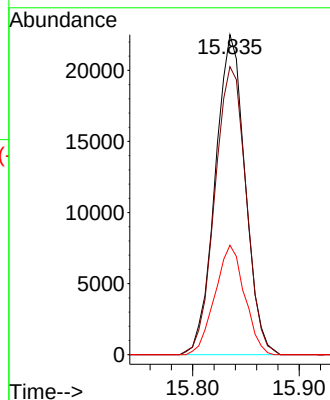
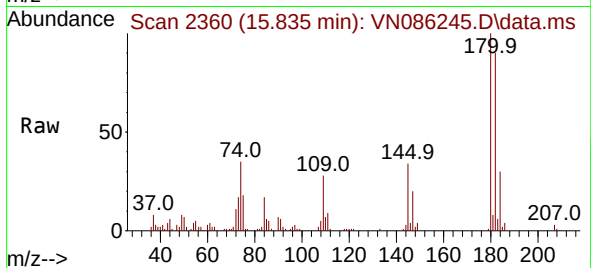
Tgt Ion:180 Resp: 43895

Ion Ratio Lower Upper

180 100

182 93.9 75.1 112.7

145 33.9 27.1 40.7



#90

Hexachlorobutadiene

Concen: 19.398 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

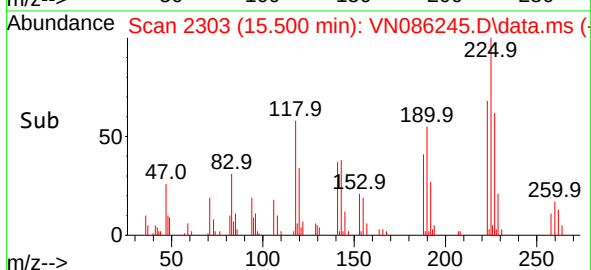
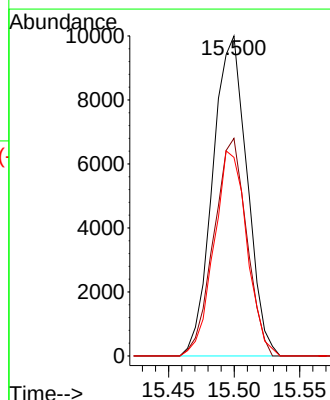
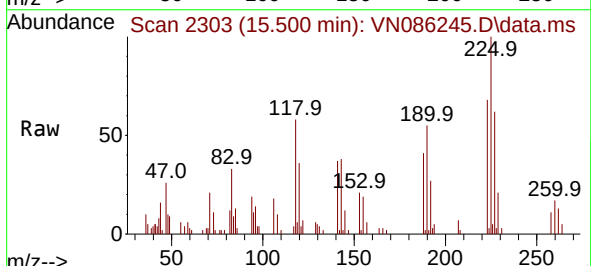
Tgt Ion:225 Resp: 18215

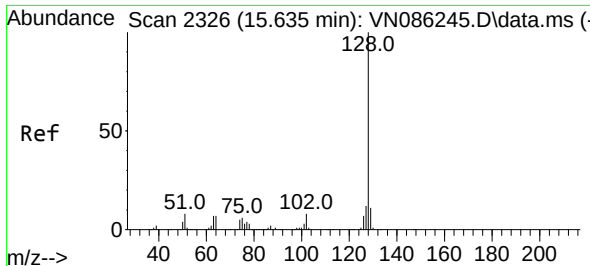
Ion Ratio Lower Upper

225 100

223 65.0 0.0 130.0

227 61.6 0.0 123.2

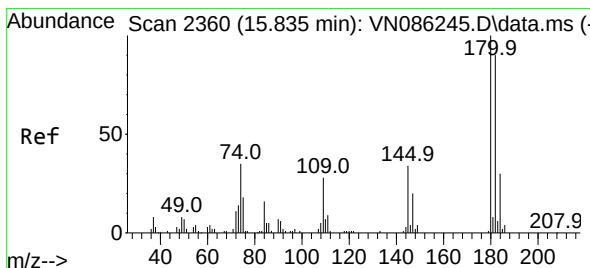
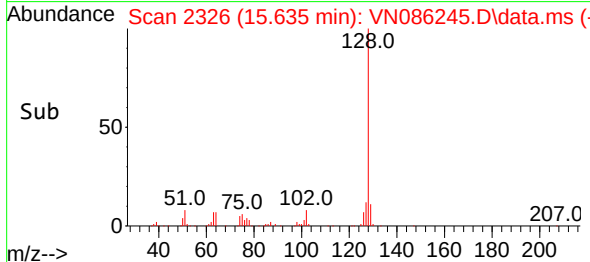
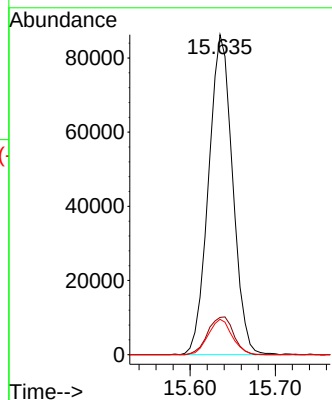
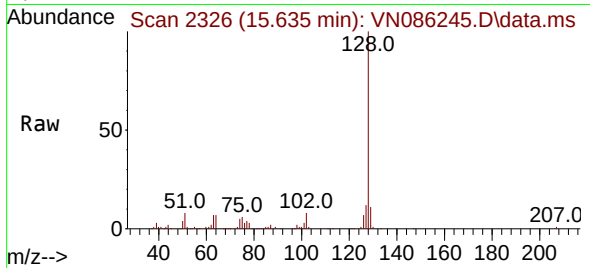




#91
Naphthalene
Concen: 19.722 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

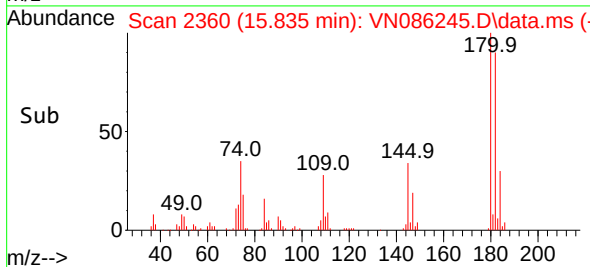
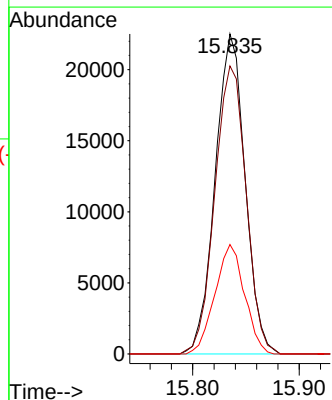
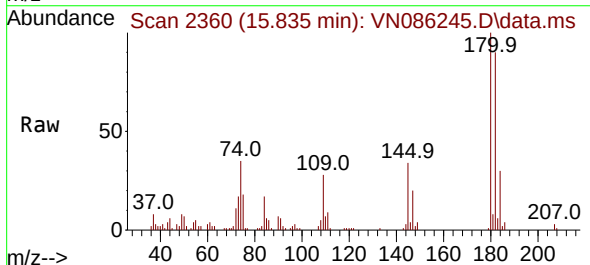
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:128 Resp: 169118
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 20.183 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:180 Resp: 43895
Ion Ratio Lower Upper
180 100
182 93.9 0.0 187.8
145 33.9 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086246.D
 Acq On : 11 Apr 2025 12:40
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Apr 12 00:21:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	26939	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	166827	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146541	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80888	30.785	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.600%			
60) 4-Bromofluorobenzene	12.847	95	86291	29.576	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.600%			
63) Toluene-d8	10.565	98	250531	30.283	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.933%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.124	85	9304	4.311	ug/l	99
3) Chloromethane	2.359	50	15004	5.030	ug/l	94
4) Vinyl Chloride	2.512	62	13469	4.740	ug/l	100
5) Bromomethane	2.965	94	8169	5.763	ug/l	98
6) Chloroethane	3.118	64	9245	5.152	ug/l	97
7) Trichlorofluoromethane	3.501	101	14867	4.823	ug/l	99
8) Diethyl Ether	3.959	74	7307	5.140	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	9194	4.837	ug/l	92
10) 1,1-Dichloroethene	4.336	96	10856	5.292	ug/l	98
11) Methyl Iodide	4.583	142	7449	3.159	ug/l	96
12) Methyl Acetate	5.024	43	14618	5.046	ug/l	97
13) Acrolein	4.177	56	10809	32.827	ug/l	99
14) Acrylonitrile	5.718	53	31353	25.638	ug/l	98
15) Acetone	4.436	58	8149	26.259	ug/l	77
16) Carbon Disulfide	4.712	76	32171	5.469	ug/l	100
17) Allyl chloride	5.024	41	18652	5.217	ug/l	96
18) Methylene Chloride	5.283	84	12832	5.487	ug/l	85
19) trans-1,2-Dichloroethene	5.777	96	5539	2.993	ug/l	85
20) Diisopropyl ether	6.671	45	37420	4.868	ug/l	96
21) 1,1-Dichloroethane	6.571	63	20024	4.883	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	13471	5.234	ug/l	95
23) tert-Butyl Alcohol	5.518	59	12793	25.247	ug/l #	100
25) Chloroform	7.959	83	19640	5.022	ug/l	93
26) Cyclohexane	8.253	56	19181	4.999	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	14353	4.803	ug/l	97
30) 2-Butanone	7.483	43	39891	24.089	ug/l	99
31) 2,2-Dichloropropane	7.483	77	17332	4.711	ug/l #	84
32) 1,1,1-Trichloroethane	8.165	97	17271	5.024	ug/l	98
33) Carbon Tetrachloride	8.365	117	12727	4.633	ug/l	95
34) Benzene	8.606	78	46065	4.845	ug/l #	88
35) Methacrylonitrile	7.777	41	9403	5.037	ug/l	96
36) 1,2-Dichloroethane	8.671	62	14350	4.823	ug/l #	87
37) Trichloroethene	9.353	130	10774	4.697	ug/l	97
38) Methylcyclohexane	9.600	83	18064	4.929	ug/l	97
39) 1,2-Dichloropropane	9.618	63	11201	4.735	ug/l	94
40) Dibromomethane	9.706	93	7704	5.042	ug/l	95
41) Bromodichloromethane	9.882	83	16772	5.109	ug/l	100
42) Vinyl Acetate	6.600	43	138739	24.613	ug/l	99
43) Ethyl Acetate	7.559	43	16850	5.045	ug/l #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086246.D
 Acq On : 11 Apr 2025 12:40
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

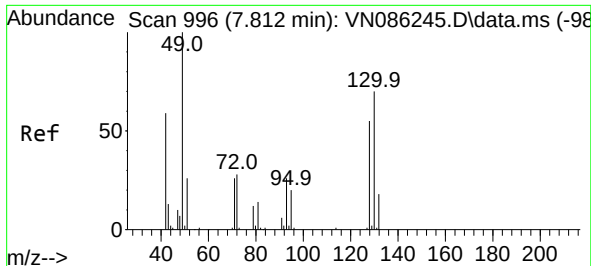
Quant Time: Apr 12 00:21:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Isopropyl Acetate	8.683	43	33849	5.463	ug/l	95
45) 1,4-Dioxane	9.688	88	4828	97.983	ug/l #	86
46) Methyl methacrylate	9.677	41	12994	4.759	ug/l	95
47) n-amyl Acetate	12.488	43	24334	4.860	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	17815	4.801	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	18616	4.740	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	10709	4.997	ug/l	96
51) Ethyl methacrylate	10.871	69	19475	4.890	ug/l	91
52) 1,3-Dichloropropane	11.159	76	18666	4.887	ug/l	95
53) Dibromochloromethane	11.359	129	11282	4.813	ug/l	100
54) 1,2-Dibromoethane	11.465	107	10742	4.965	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	44228	29.389	ug/l	99
56) Bromoform	12.576	173	7367	4.804	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	81510	24.511	ug/l	99
59) 2-Hexanone	11.194	43	60580	24.465	ug/l	99
61) Tetrachloroethene	11.100	164	10135	4.683	ug/l	96
62) Toluene	10.624	91	48384	4.923	ug/l	99
64) Chlorobenzene	11.888	112	29905	4.980	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	9602	4.845	ug/l	96
66) Ethyl Benzene	11.965	91	53539	4.912	ug/l	98
67) m/p-Xylenes	12.071	106	38897	9.597	ug/l	97
68) o-Xylene	12.394	106	19223	4.822	ug/l	98
69) Styrene	12.406	104	32582	4.846	ug/l	100
70) Isopropylbenzene	12.694	105	47563	4.839	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15293	5.466	ug/l	93
72) 1,2,3-Trichloropropane	12.988	75	21313	5.381	ug/l	58
73) Bromobenzene	12.976	156	10521	4.831	ug/l	96
74) n-propylbenzene	13.035	91	55104	4.734	ug/l	100
75) 2-Chlorotoluene	13.123	91	35960	4.929	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	38762	4.800	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	6507	4.845	ug/l	94
78) 4-Chlorotoluene	13.218	91	35898	4.927	ug/l	98
79) tert-butylbenzene	13.435	119	35578	5.092	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	38730	4.730	ug/l	99
81) sec-Butylbenzene	13.612	105	46761	4.798	ug/l	100
82) p-Isopropyltoluene	13.729	119	38146	4.692	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	19501	4.818	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	19847	4.888	ug/l	99
85) n-Butylbenzene	14.053	91	34592	4.716	ug/l	99
86) Hexachloroethane	14.329	117	6465	4.714	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	19316	4.834	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	3152	4.946	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	9291	4.778	ug/l	95
90) Hexachlorobutadiene	15.500	225	4734	5.639	ug/l	96
91) Naphthalene	15.635	128	38531	5.026	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	9291	4.778	ug/l	95

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

Quant Time: Apr 12 00:21:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
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QLast Update : Sat Apr 12 00:09:06 2025
Response via : Initial Calibration

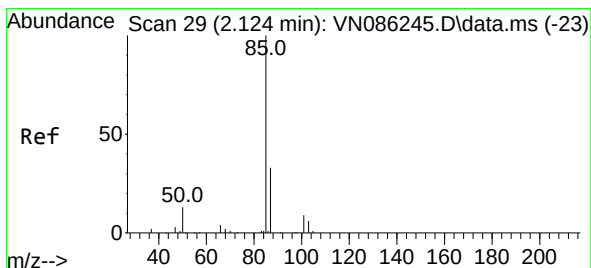
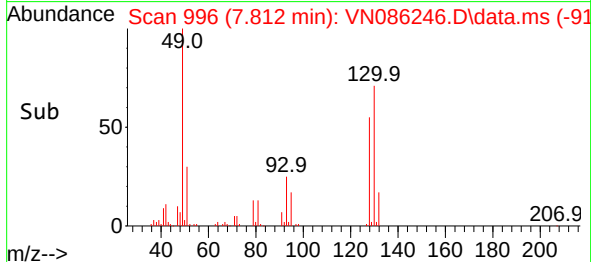
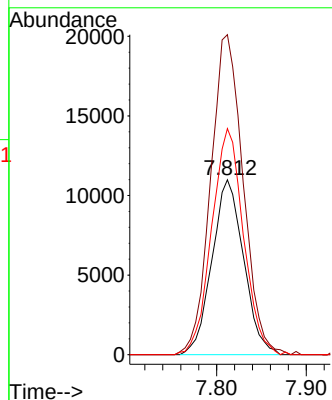
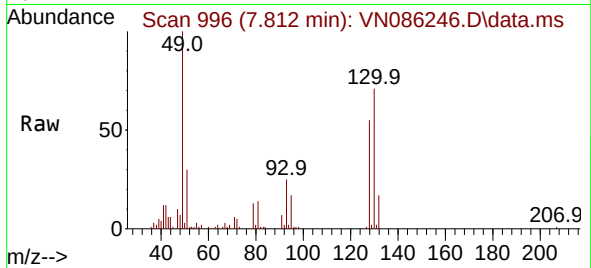




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

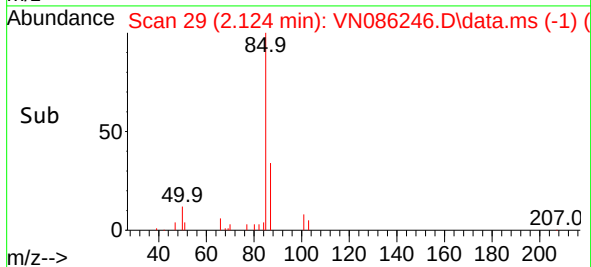
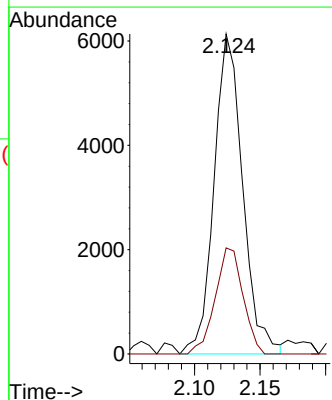
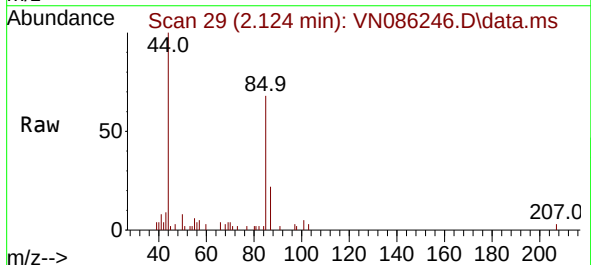
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

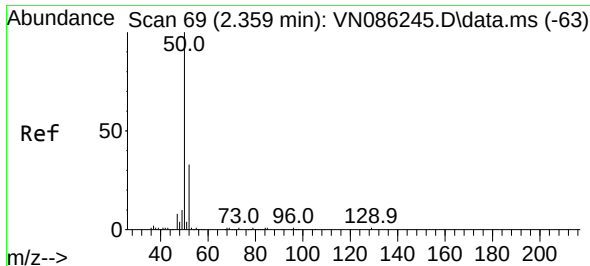
Tgt Ion:128 Resp: 26939
Ion Ratio Lower Upper
128 100
49 187.2 0.0 452.5
130 129.7 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 4.311 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 85 Resp: 9304
Ion Ratio Lower Upper
85 100
87 33.1 16.3 48.9

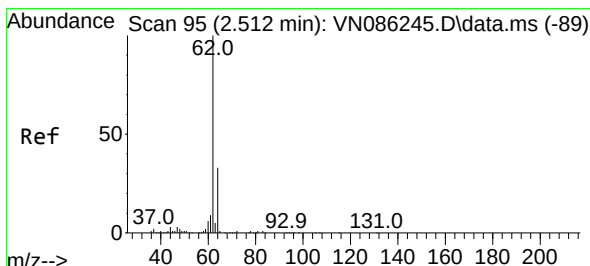
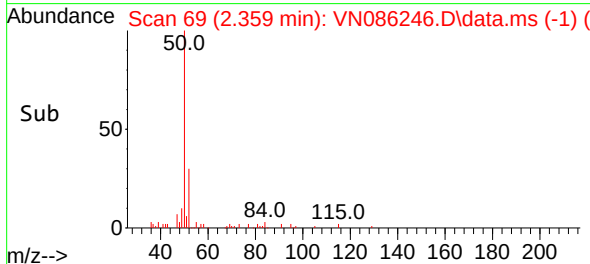
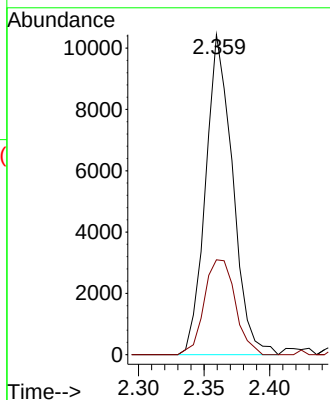
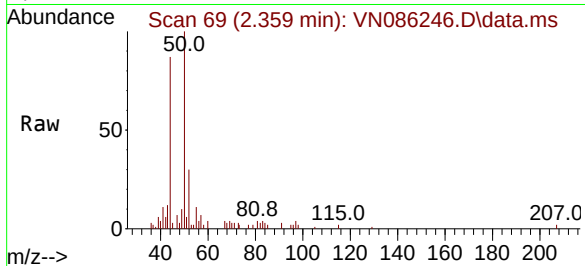




#3
Chloromethane
Concen: 5.030 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

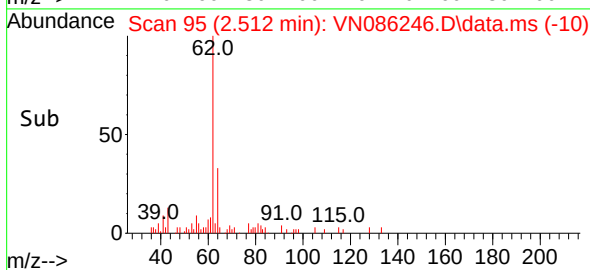
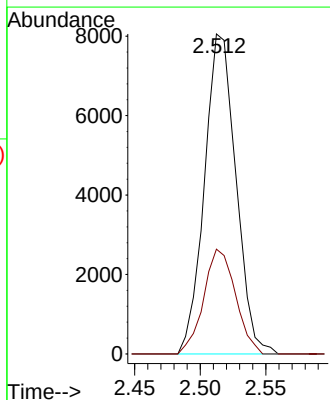
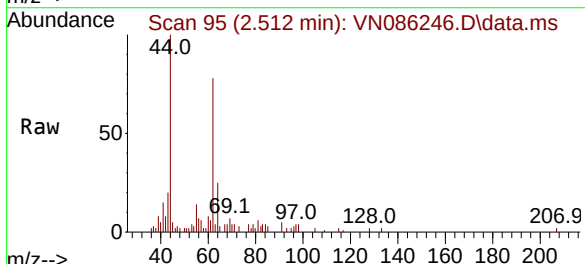
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

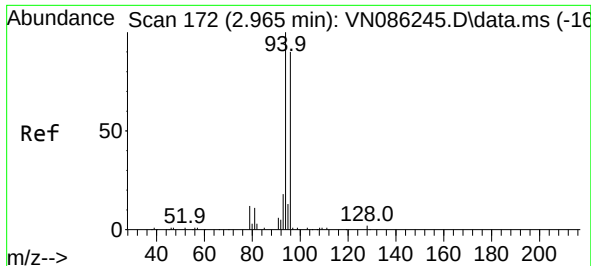
Tgt Ion: 50 Resp: 15004
Ion Ratio Lower Upper
50 100
52 29.7 26.4 39.6



#4
Vinyl Chloride
Concen: 4.740 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 62 Resp: 13469
Ion Ratio Lower Upper
62 100
64 32.8 26.3 39.5

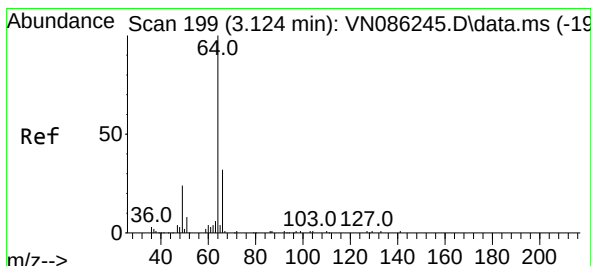
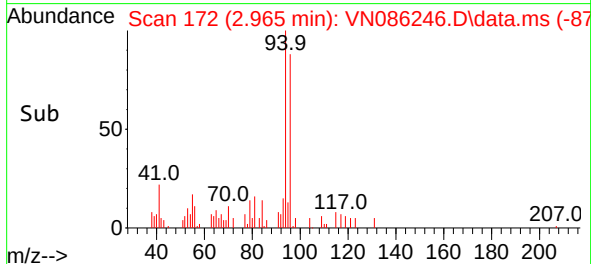
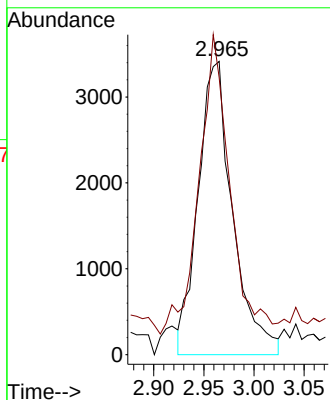
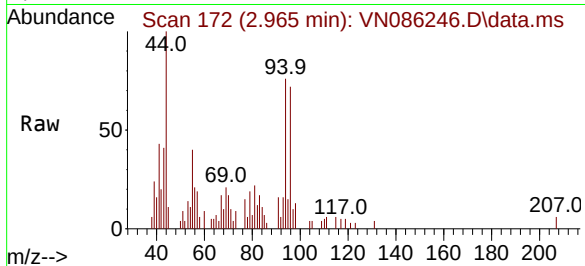




#5
Bromomethane
Concen: 5.763 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

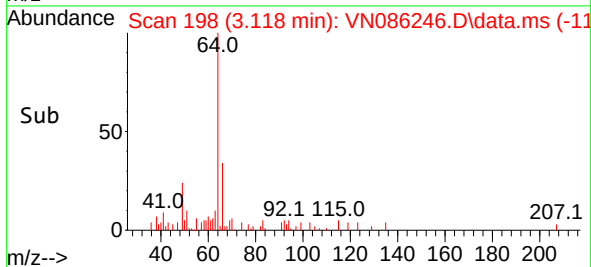
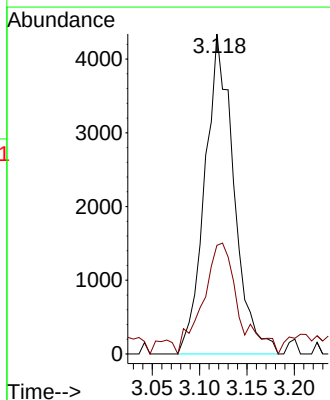
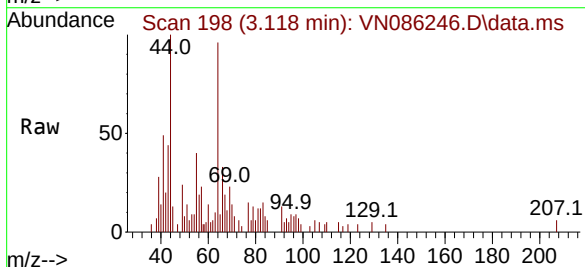
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

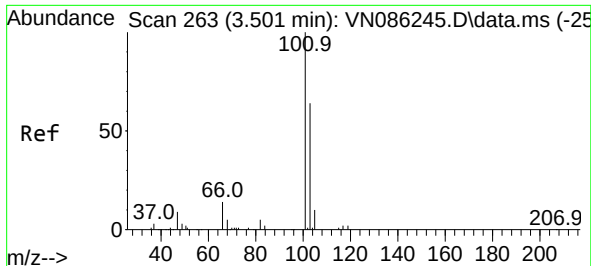
Tgt Ion: 94 Resp: 8169
Ion Ratio Lower Upper
94 100
96 88.5 72.2 108.2



#6
Chloroethane
Concen: 5.152 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 64 Resp: 9245
Ion Ratio Lower Upper
64 100
66 34.0 25.7 38.5

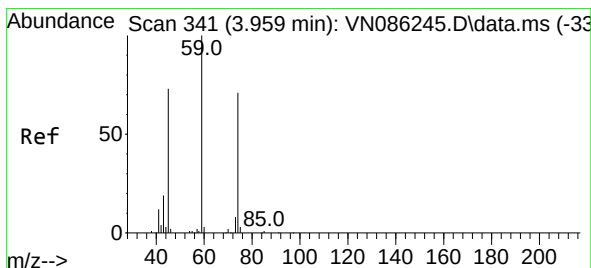
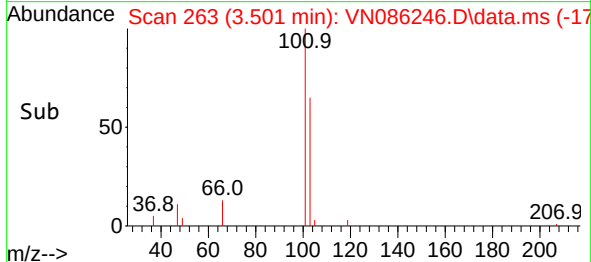
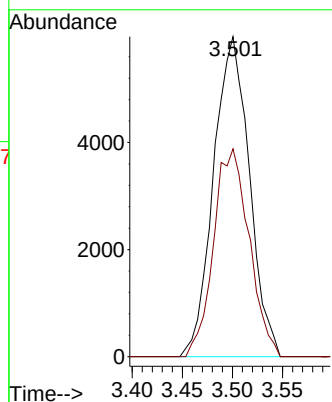
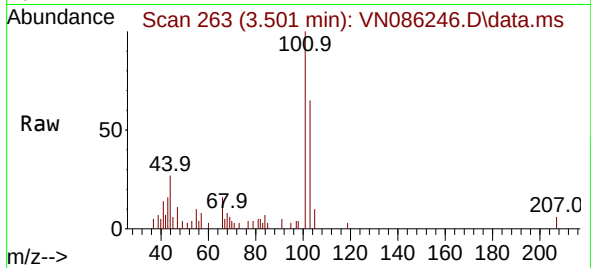




#7
 Trichlorofluoromethane
 Concen: 4.823 ug/l
 RT: 3.501 min Scan# 263
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

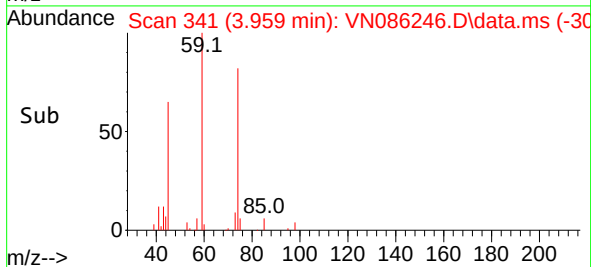
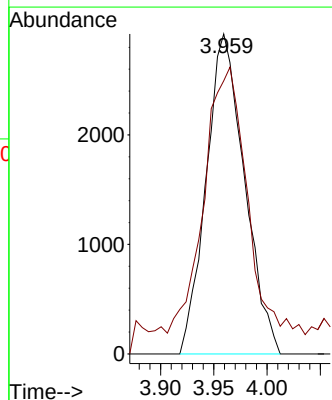
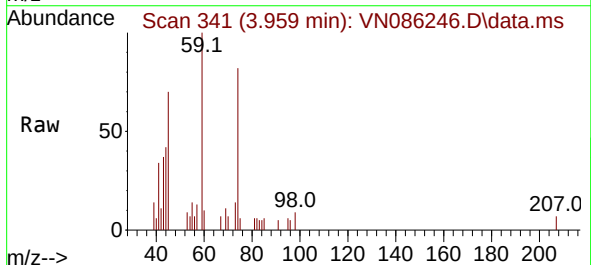
Instrument :
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 ClientSampleId :
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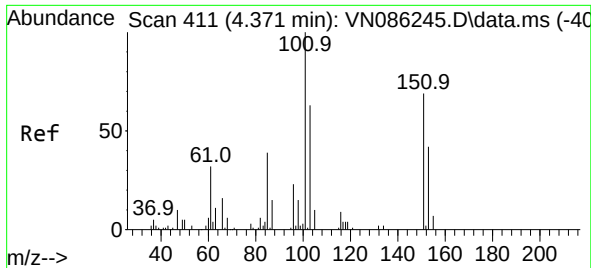
Tgt Ion:101 Resp: 14867
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.2 76.8



#8
 Diethyl Ether
 Concen: 5.140 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion: 74 Resp: 7307
 Ion Ratio Lower Upper
 74 100
 45 92.1 19.2 173.2

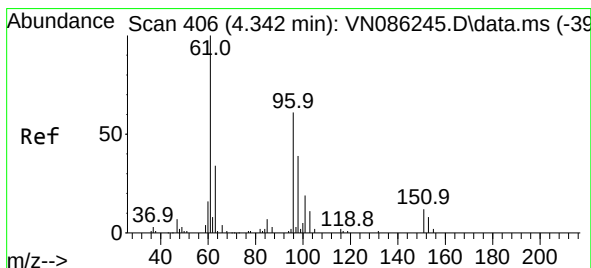
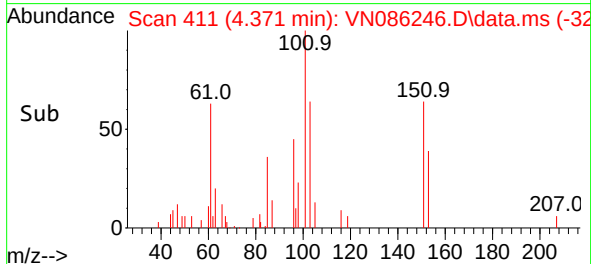
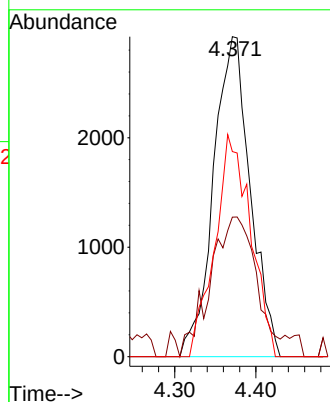
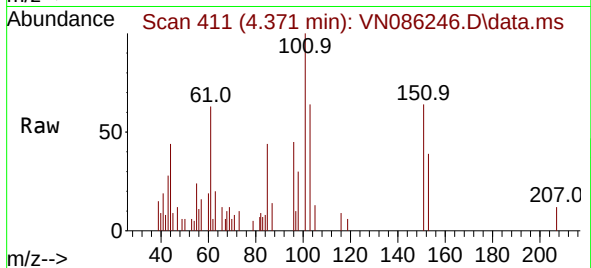




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 4.837 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

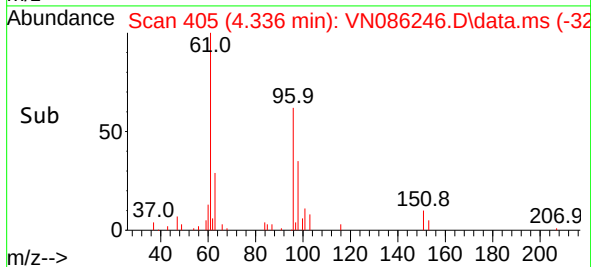
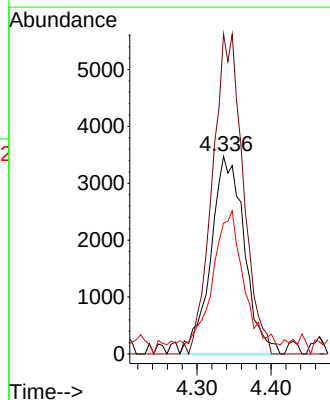
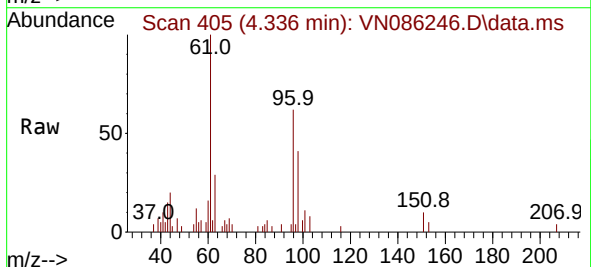
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

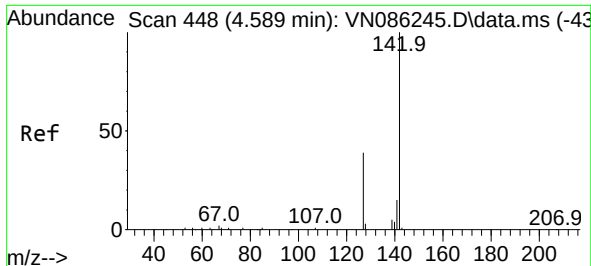
Tgt Ion:	101	Resp:	9194
Ion	Ratio	Lower	Upper
101	100		
85	35.1	0.0	93.0
151	67.5	0.0	138.6



#10
 1,1-Dichloroethene
 Concen: 5.292 ug/l
 RT: 4.336 min Scan# 405
 Delta R.T. -0.006 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion:	96	Resp:	10856
Ion	Ratio	Lower	Upper
96	100		
61	161.9	131.1	196.7
98	61.6	51.6	77.4

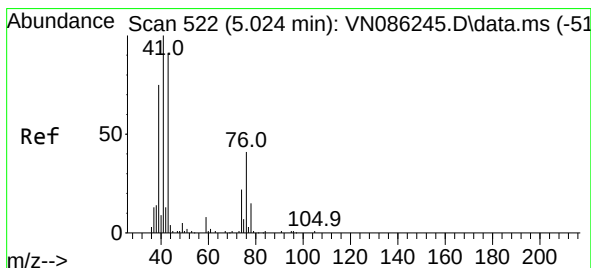
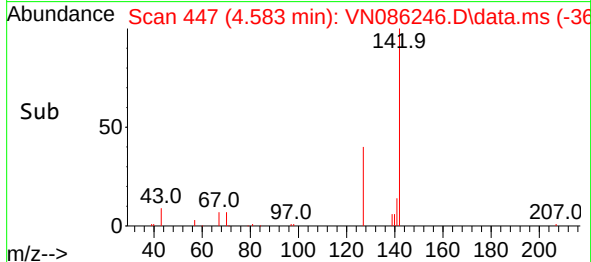
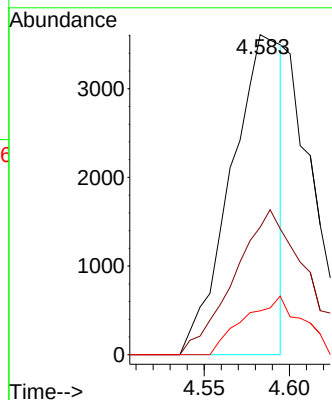
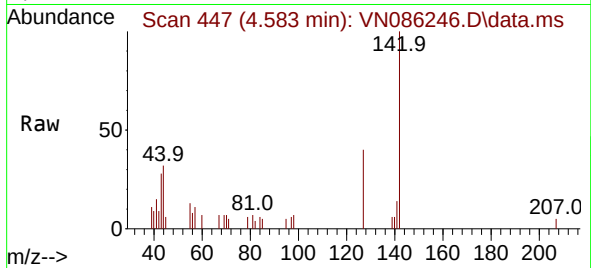




#11
Methyl Iodide
Concen: 3.159 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

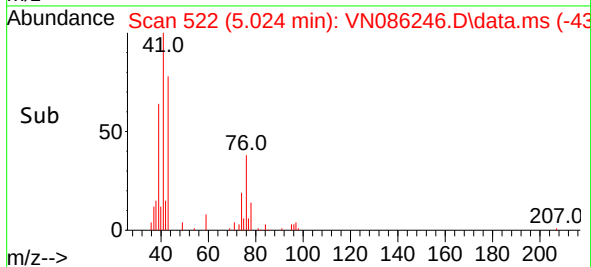
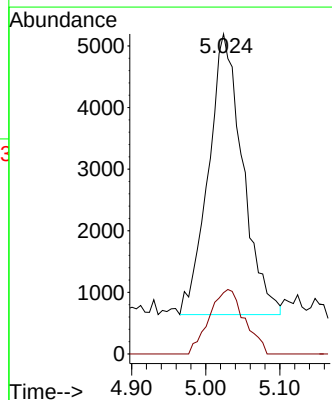
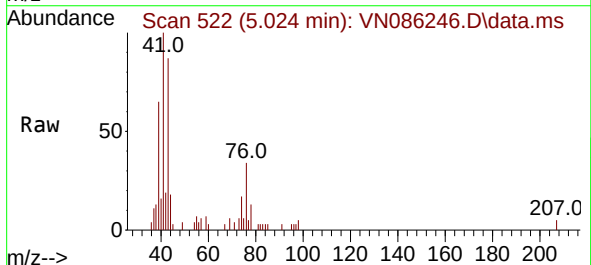
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

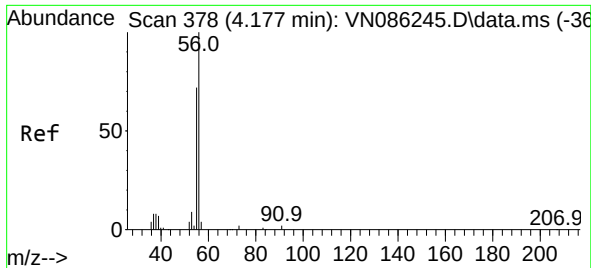
Tgt Ion:142 Resp: 7449
Ion Ratio Lower Upper
142 100
127 39.1 19.6 58.8
141 8.8 7.3 21.9



#12
Methyl Acetate
Concen: 5.046 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 43 Resp: 14618
Ion Ratio Lower Upper
43 100
74 22.2 19.1 28.7

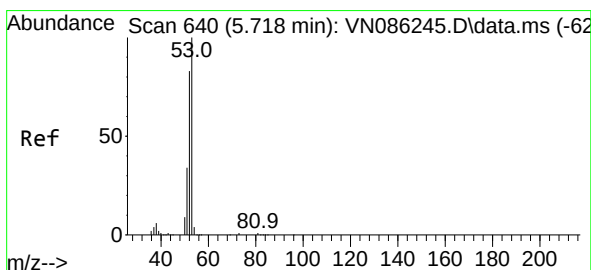
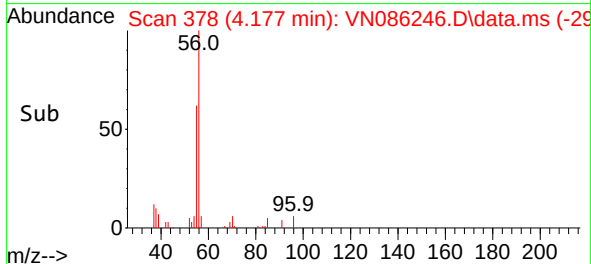
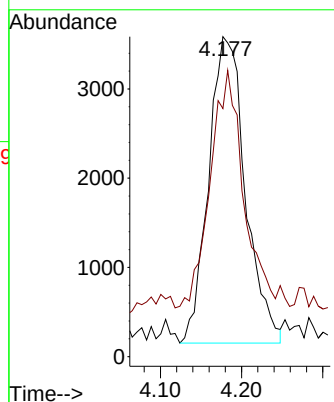
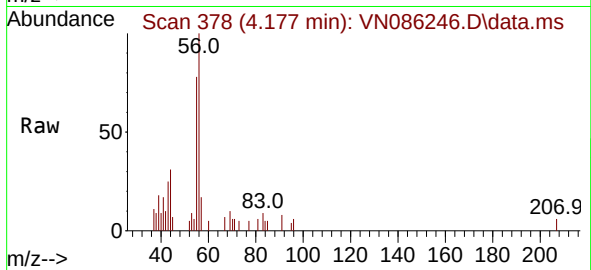




#13
Acrolein
Concen: 32.827 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

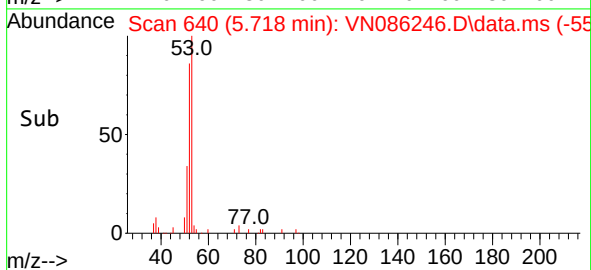
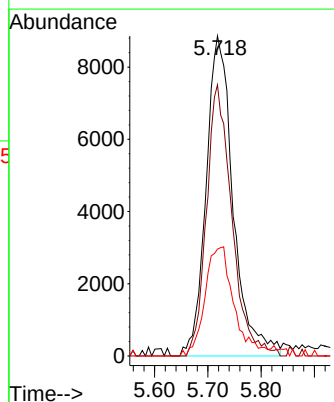
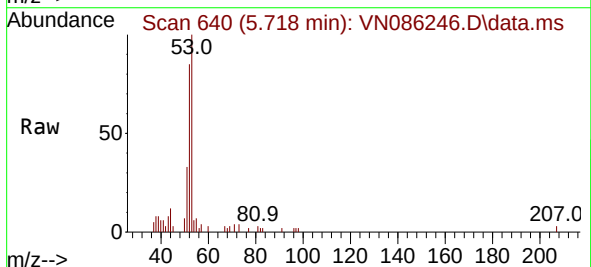
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

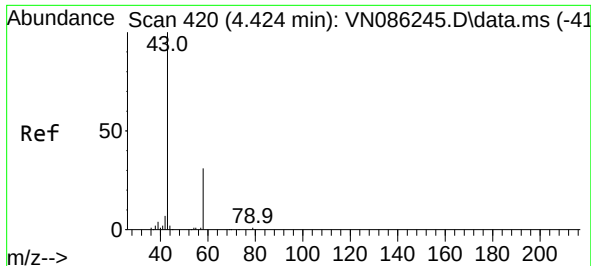
Tgt Ion: 56 Resp: 10809
Ion Ratio Lower Upper
56 100
55 69.7 56.5 84.7



#14
Acrylonitrile
Concen: 25.638 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 53 Resp: 31353
Ion Ratio Lower Upper
53 100
52 78.8 40.2 120.6
51 33.7 17.5 52.6





#15

Acetone

Concen: 26.259 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

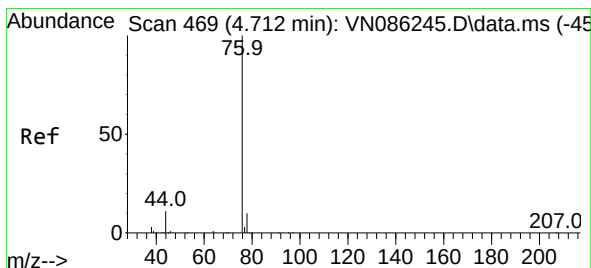
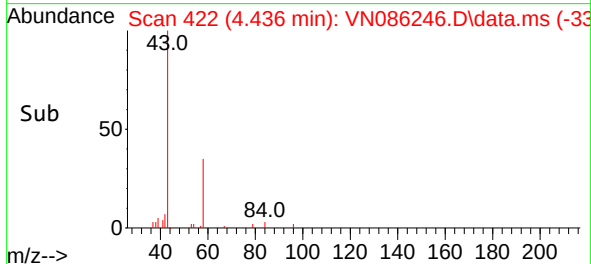
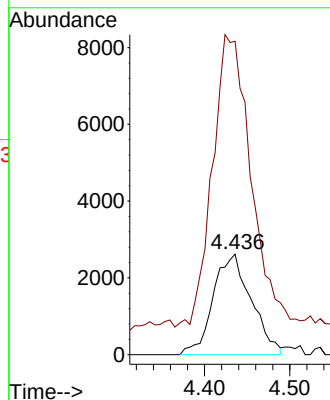
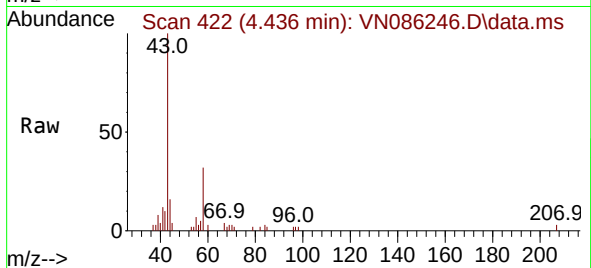
VSTDICC005

Tgt Ion: 58 Resp: 8149

Ion Ratio Lower Upper

58 100

43 280.1 261.8 392.8



#16

Carbon Disulfide

Concen: 5.469 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086246.D

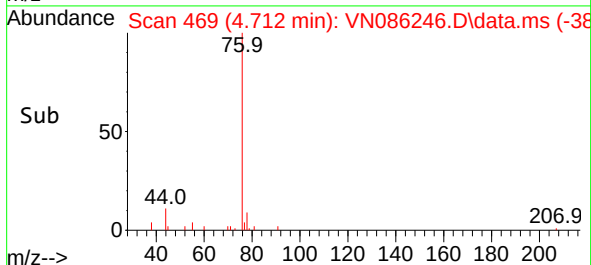
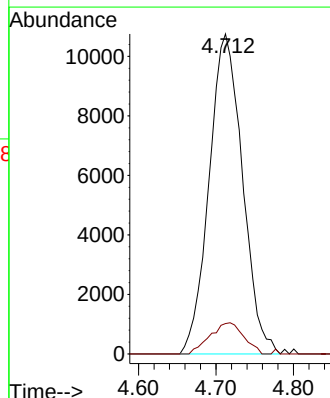
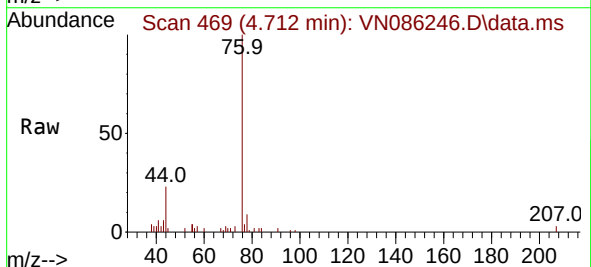
Acq: 11 Apr 2025 12:40

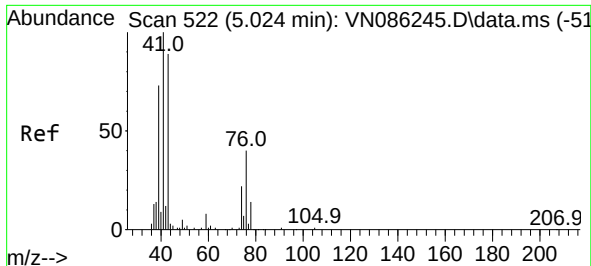
Tgt Ion: 76 Resp: 32171

Ion Ratio Lower Upper

76 100

78 9.5 7.7 11.5

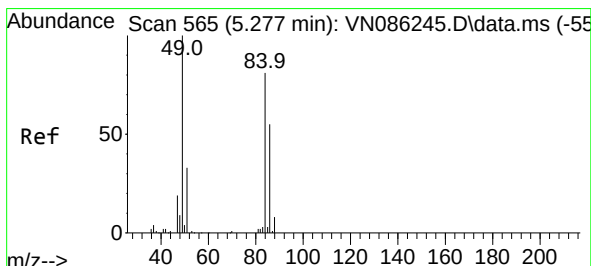
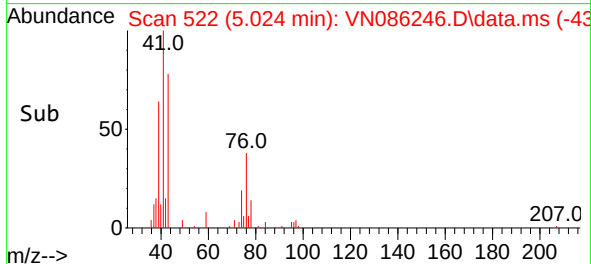
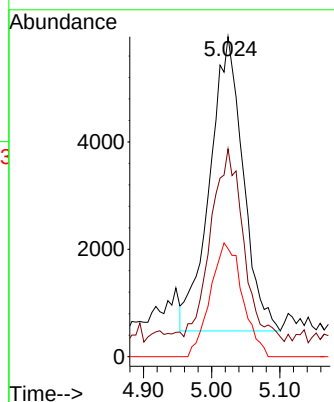
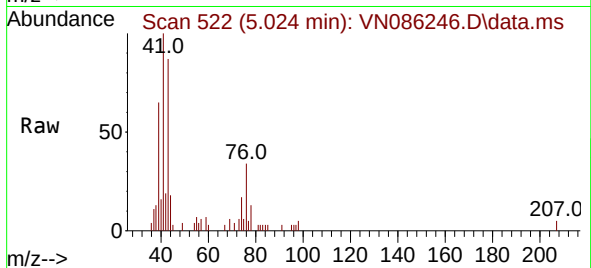




#17
 Allyl chloride
 Concen: 5.217 ug/l
 RT: 5.024 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

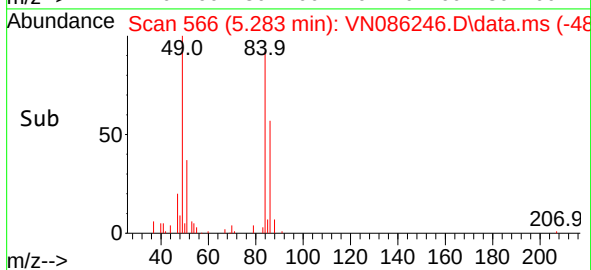
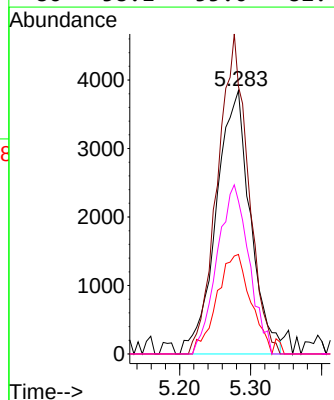
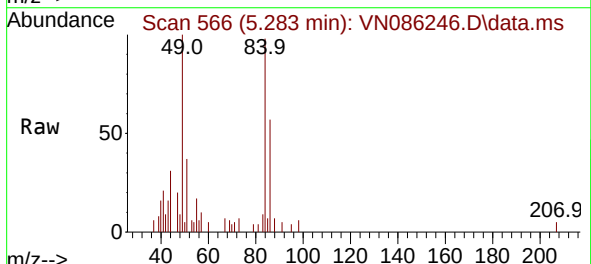
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

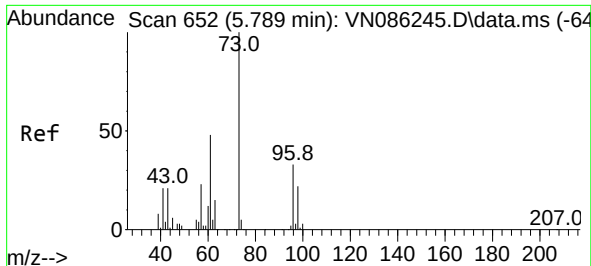
Tgt Ion: 41 Resp: 18652
 Ion Ratio Lower Upper
 41 100
 39 63.8 34.4 103.2
 76 36.7 18.8 56.3



#18
 Methylene Chloride
 Concen: 5.487 ug/l
 RT: 5.283 min Scan# 566
 Delta R.T. 0.006 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion: 84 Resp: 12832
 Ion Ratio Lower Upper
 84 100
 49 101.6 99.1 148.7
 51 37.8 32.3 48.5
 86 58.1 55.0 82.4

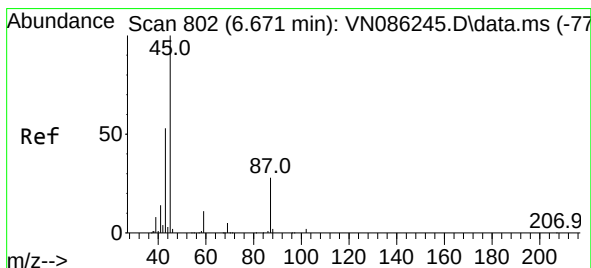
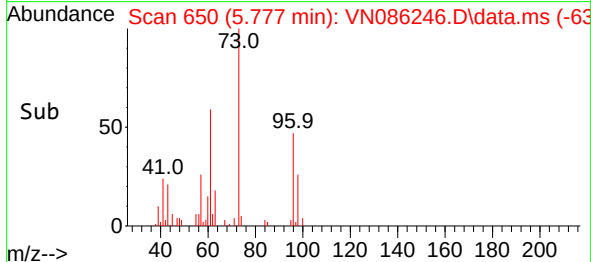
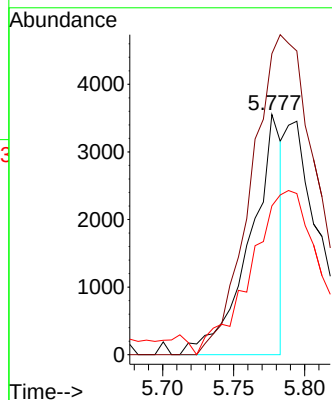
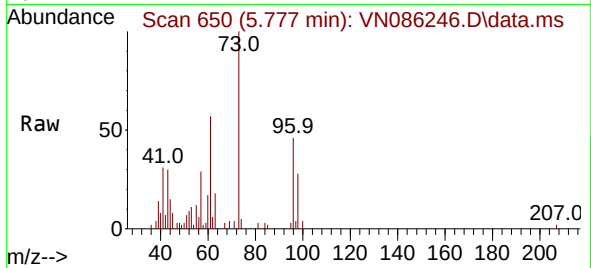




#19
trans-1,2-Dichloroethene
Concen: 2.993 ug/l
RT: 5.777 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

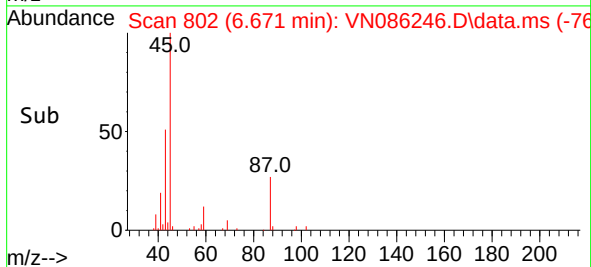
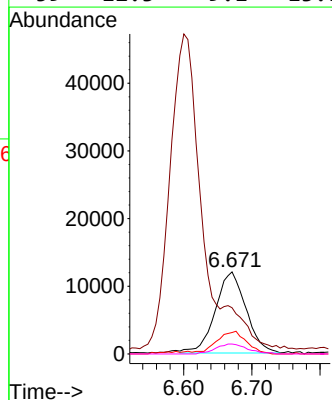
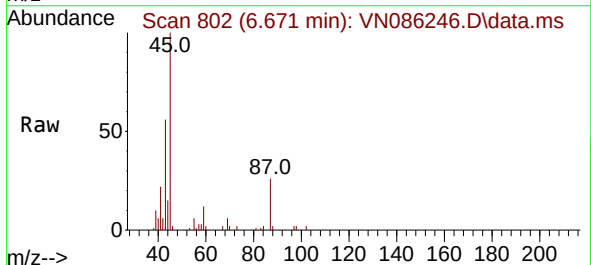
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

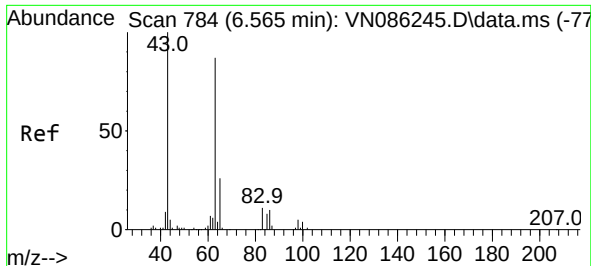
Tgt Ion: 96 Resp: 5539
Ion Ratio Lower Upper
96 100
61 125.3 115.9 173.9
98 53.7 52.1 78.1



#20
Diisopropyl ether
Concen: 4.868 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 45 Resp: 37420
Ion Ratio Lower Upper
45 100
43 49.8 42.3 63.5
87 26.5 22.2 33.4
59 12.3 9.1 13.7





#21

1,1-Dichloroethane

Concen: 4.883 ug/l

RT: 6.571 min Scan# 784

Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

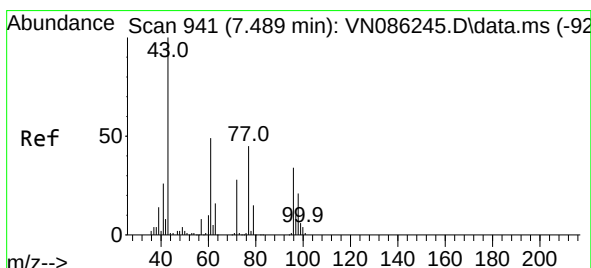
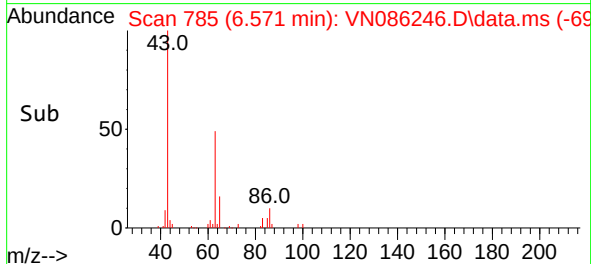
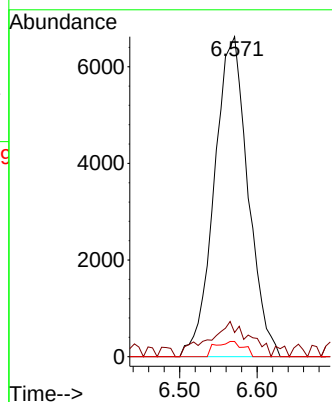
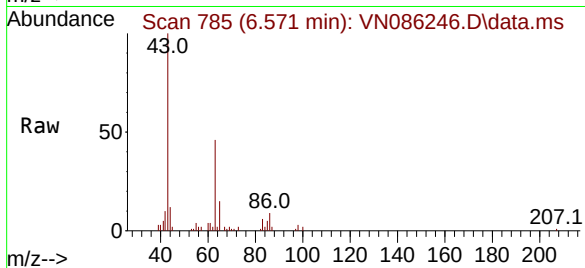
Tgt Ion: 63 Resp: 20024

Ion Ratio Lower Upper

63 100

98 7.6 3.1 9.3

100 4.7 2.3 6.9



#22

cis-1,2-Dichloroethene

Concen: 5.234 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

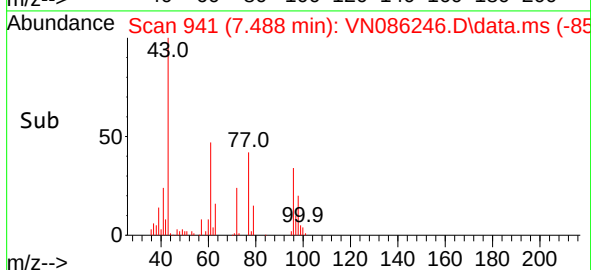
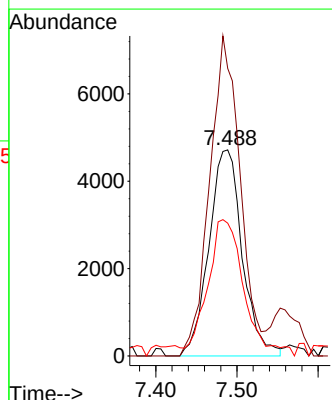
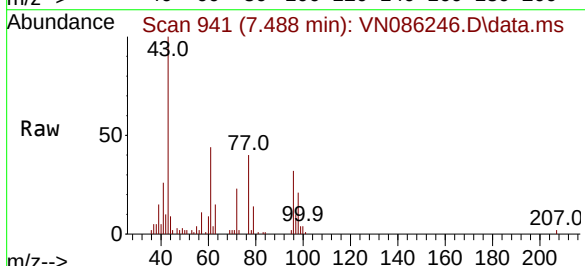
Tgt Ion: 96 Resp: 13471

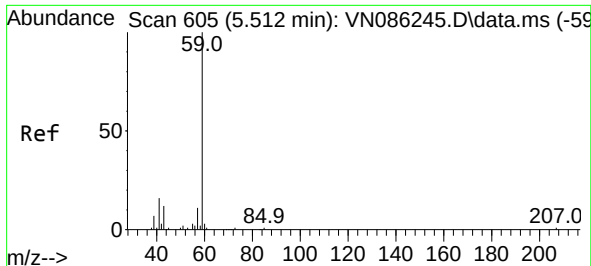
Ion Ratio Lower Upper

96 100

61 141.2 119.5 179.3

98 61.3 51.0 76.6

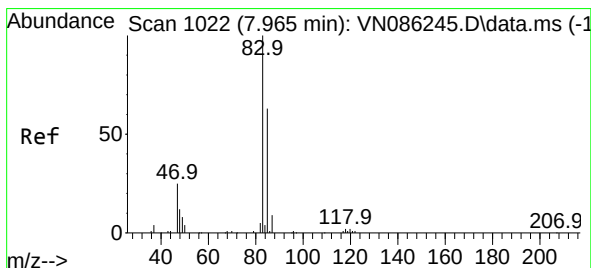
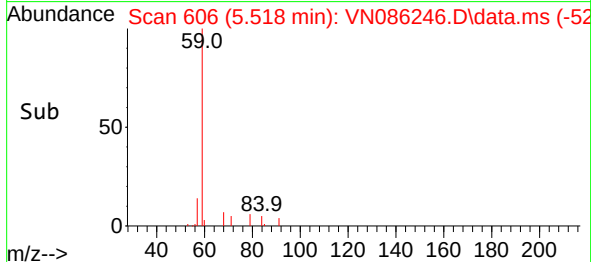
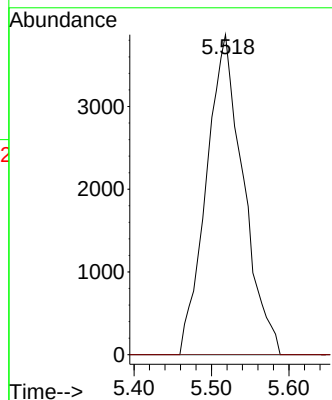
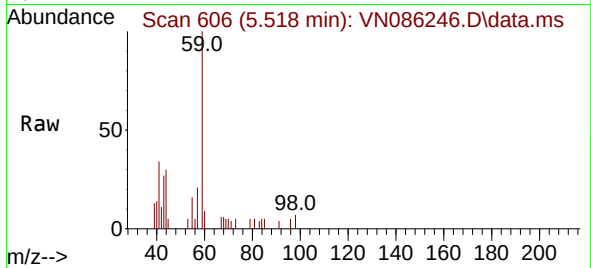




#23
tert-Butyl Alcohol
Concen: 25.247 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

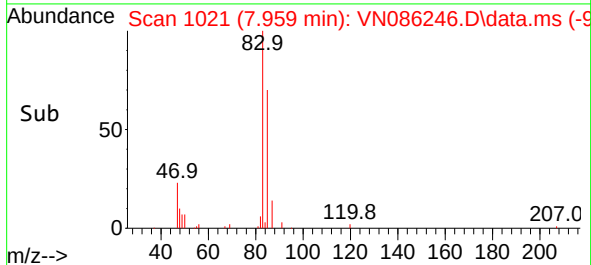
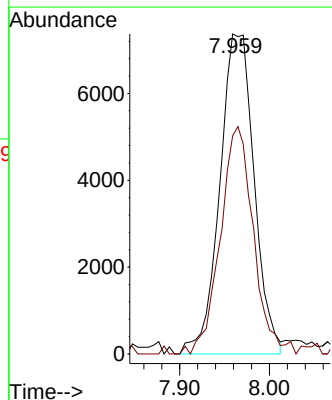
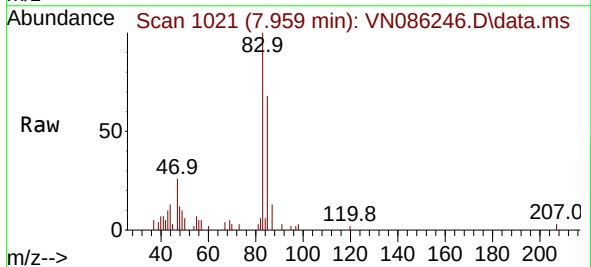
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

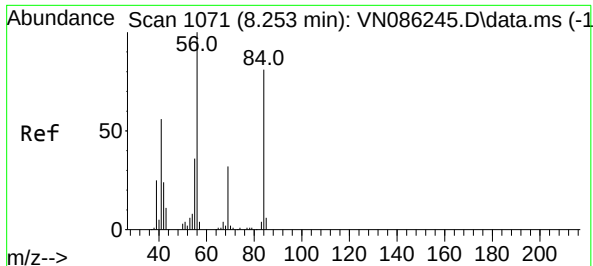
Tgt Ion: 59 Resp: 12793
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 5.022 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 83 Resp: 19640
Ion Ratio Lower Upper
83 100
85 68.2 50.5 75.7

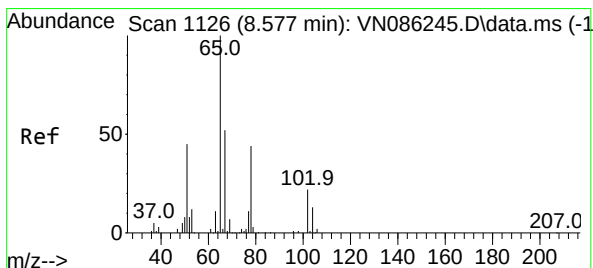
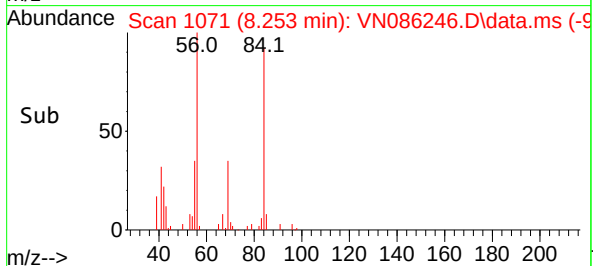
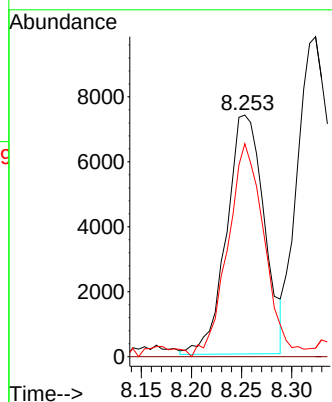
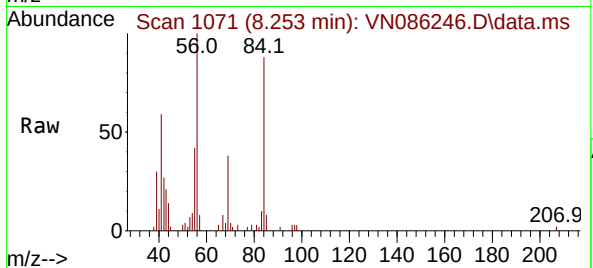




#26
Cyclohexane
Concen: 4.999 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

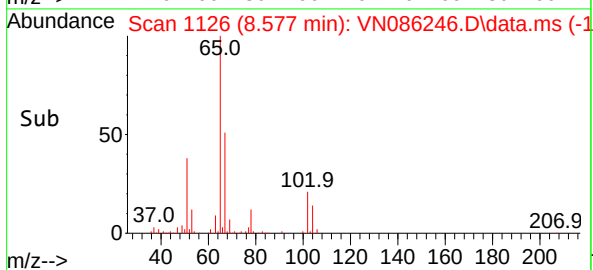
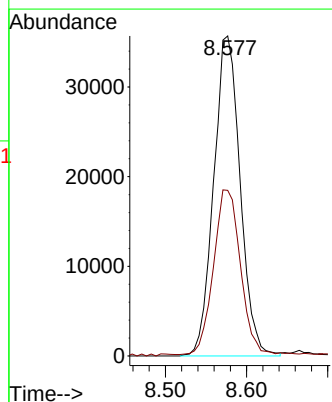
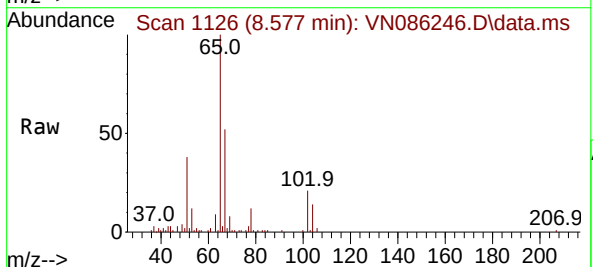
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

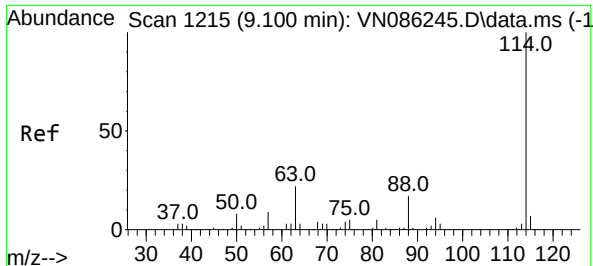
Tgt Ion: 56 Resp: 19181
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.6 69.0 103.4



#27
1,2-Dichloroethane-d4
Concen: 30.785 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 65 Resp: 80888
Ion Ratio Lower Upper
65 100
67 52.0 43.4 65.2

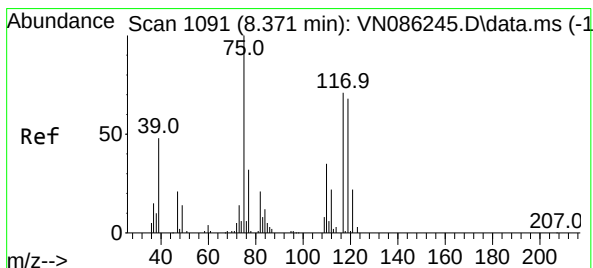
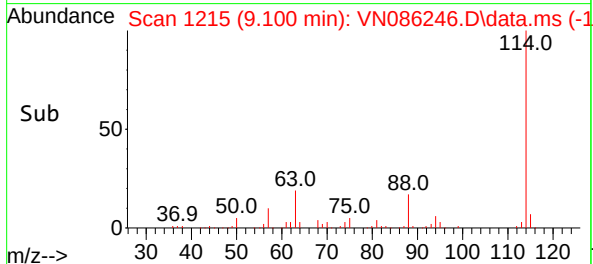
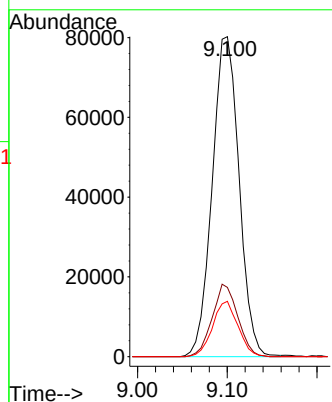
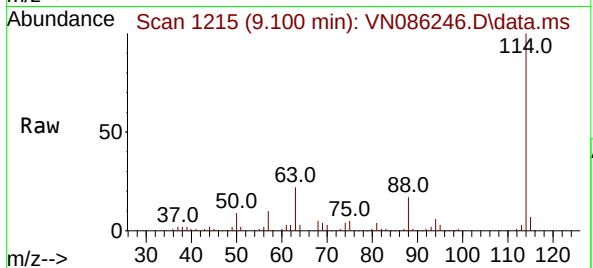




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

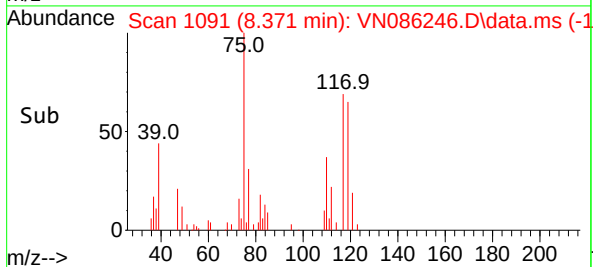
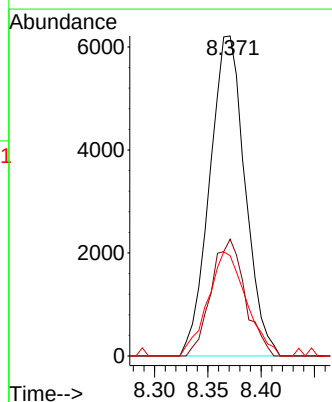
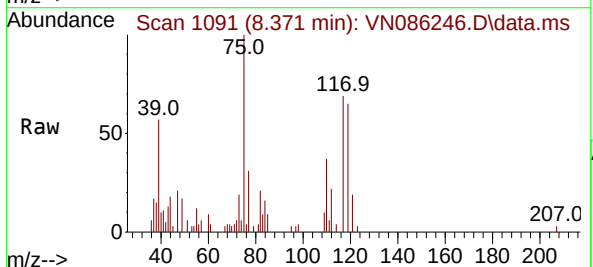
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

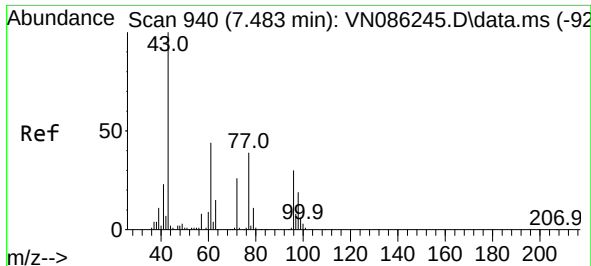
Tgt Ion:114 Resp: 166827
Ion Ratio Lower Upper
114 100
63 21.5 17.8 26.6
88 16.4 13.4 20.2



#29
1,1-Dichloropropene
Concen: 4.803 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 75 Resp: 14353
Ion Ratio Lower Upper
75 100
110 34.9 0.0 68.6
77 35.2 0.0 63.8

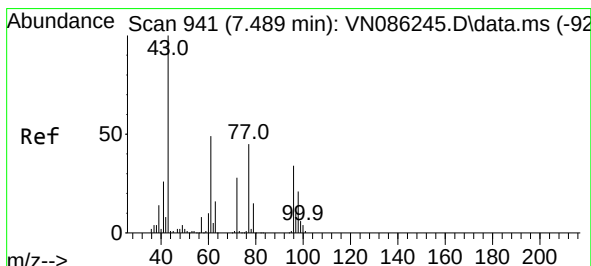
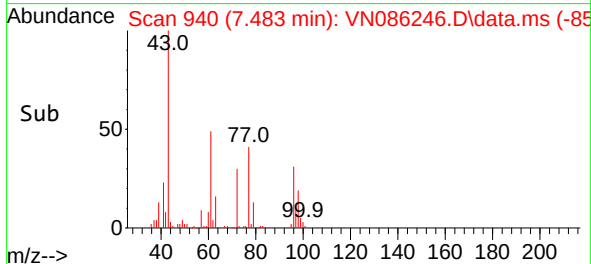
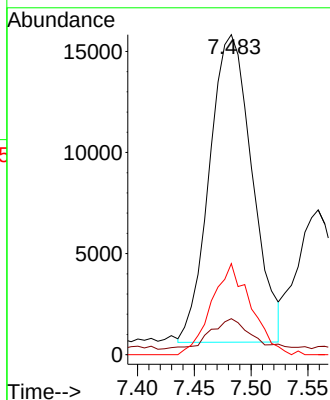
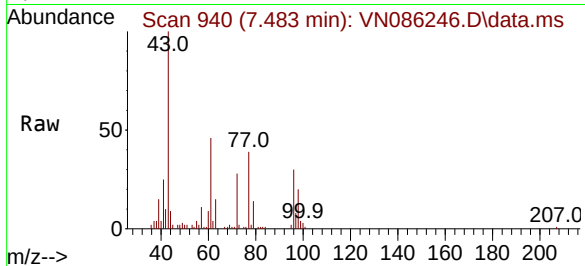




#30
2-Butanone
Concen: 24.089 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

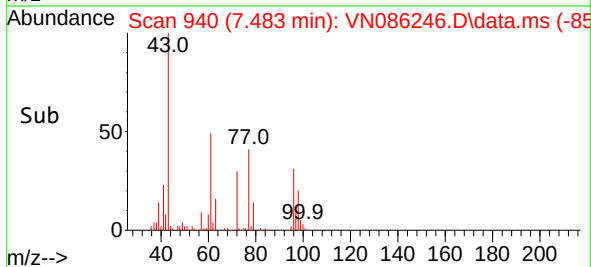
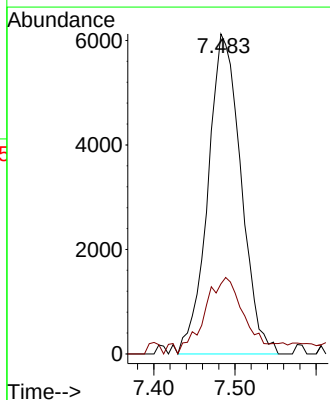
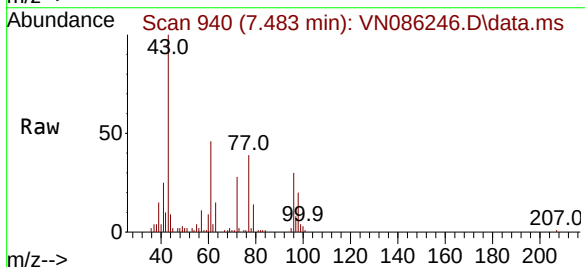
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

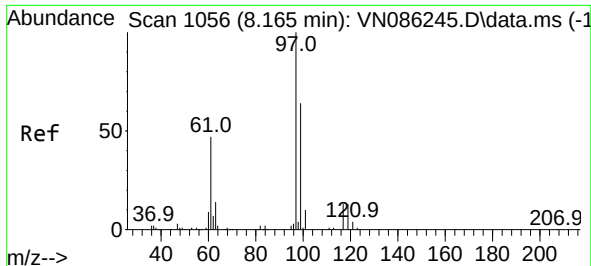
Tgt Ion: 43 Resp: 39891
Ion Ratio Lower Upper
43 100
57 7.0 6.4 9.6
72 27.2 21.5 32.3



#31
2,2-Dichloropropane
Concen: 4.711 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 77 Resp: 17332
Ion Ratio Lower Upper
77 100
97 15.5 18.8 28.2#





#32

1,1,1-Trichloroethane

Concen: 5.024 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

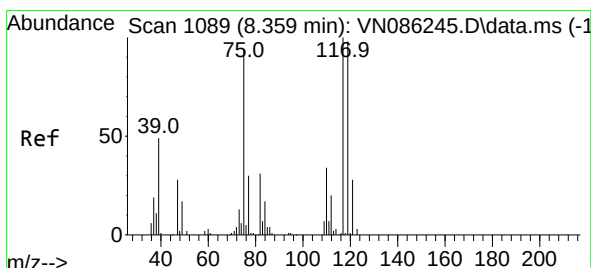
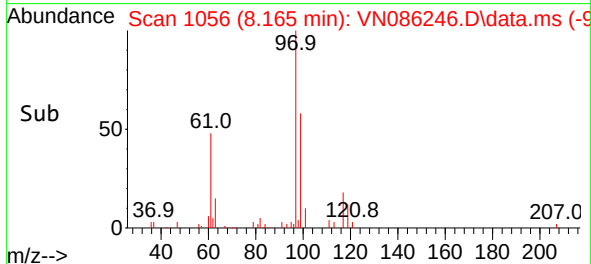
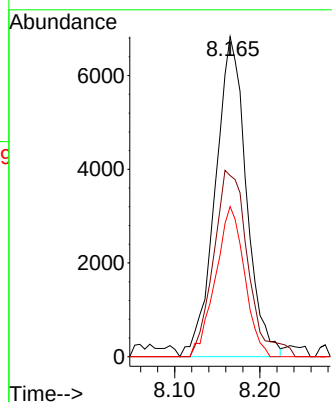
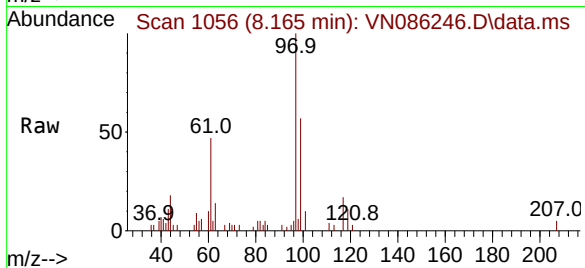
Tgt Ion: 97 Resp: 17271

Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.2

61 43.9 37.0 55.6



#33

Carbon Tetrachloride

Concen: 4.633 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

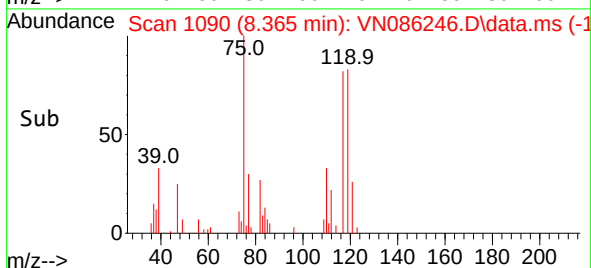
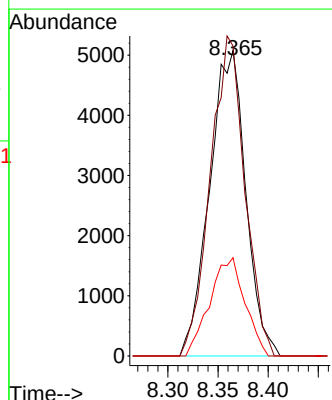
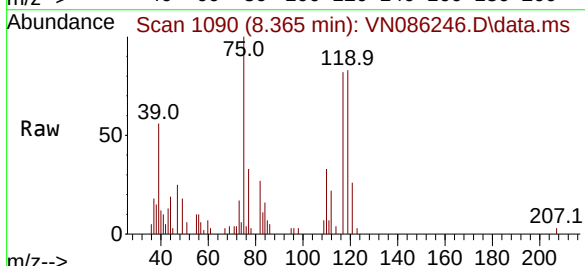
Tgt Ion: 117 Resp: 12727

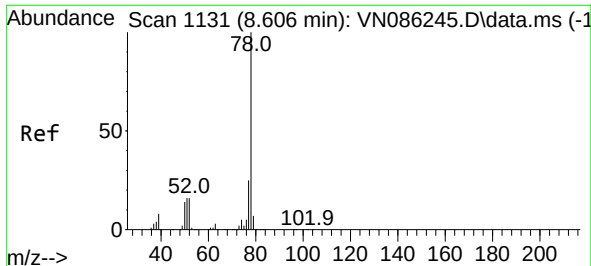
Ion Ratio Lower Upper

117 100

119 101.5 78.3 117.5

121 32.2 22.5 33.7





#34

Benzene

Concen: 4.845 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

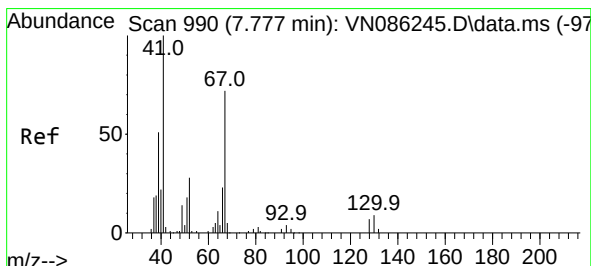
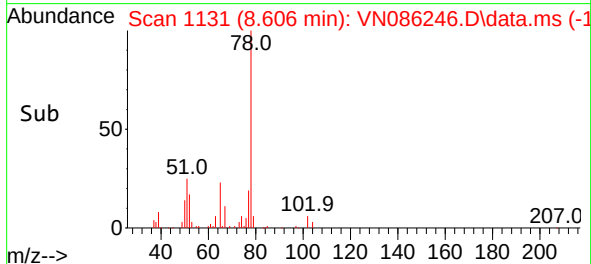
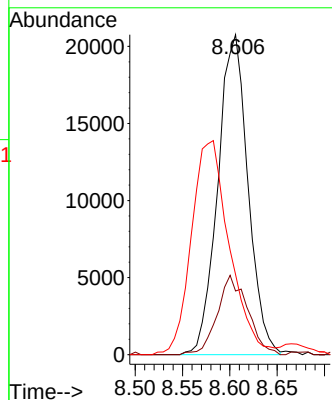
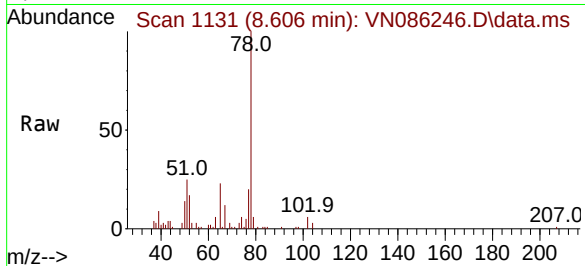
Tgt Ion: 78 Resp: 46065

Ion Ratio Lower Upper

78 100

77 19.9 20.0 30.0#

51 22.7 12.9 19.3#



#35

Methacrylonitrile

Concen: 5.037 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion: 41 Resp: 9403

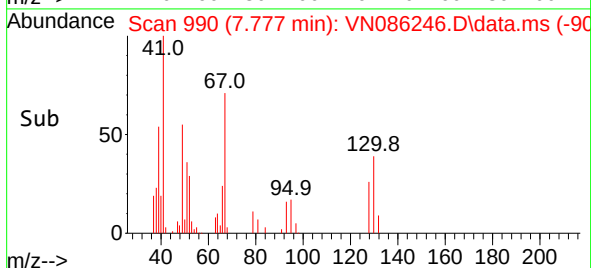
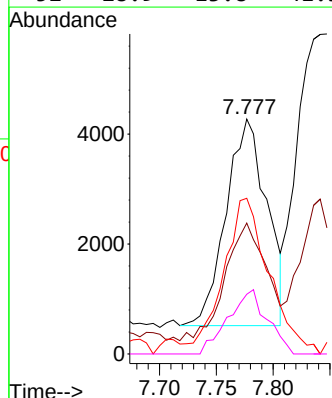
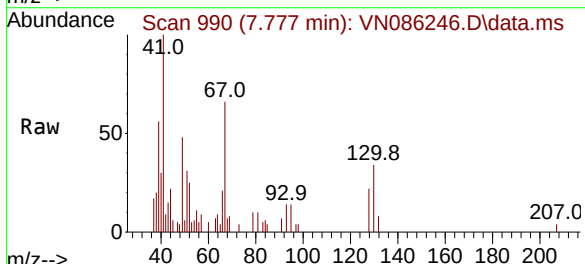
Ion Ratio Lower Upper

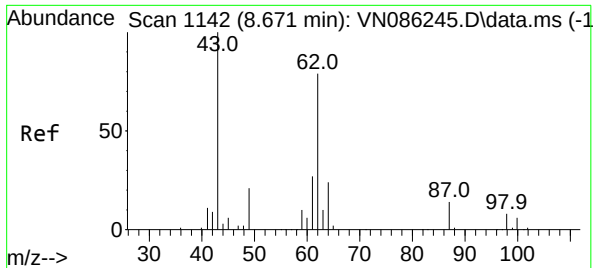
41 100

39 57.0 25.8 77.3

67 70.6 36.0 108.0

52 28.9 13.8 41.3

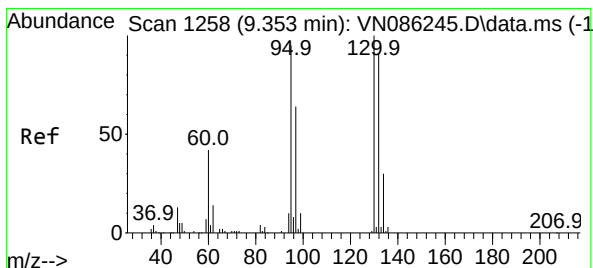
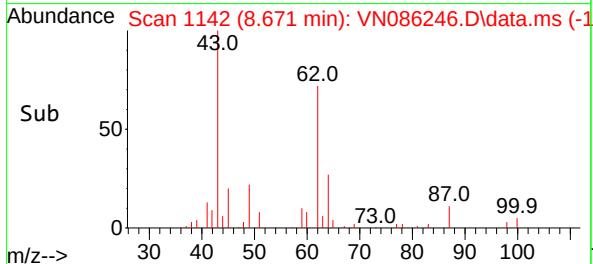
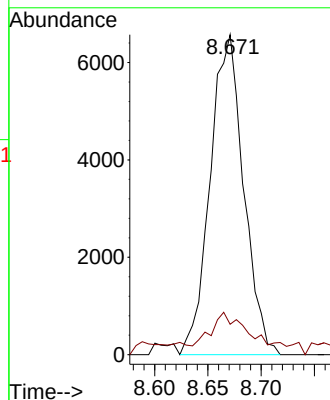
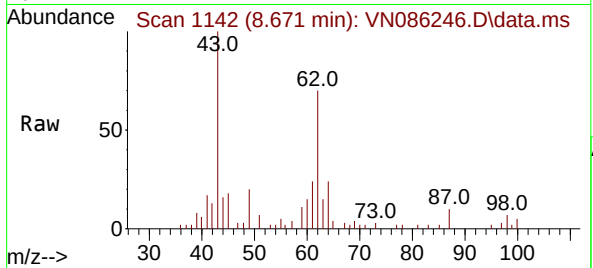




#36
1,2-Dichloroethane
Concen: 4.823 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

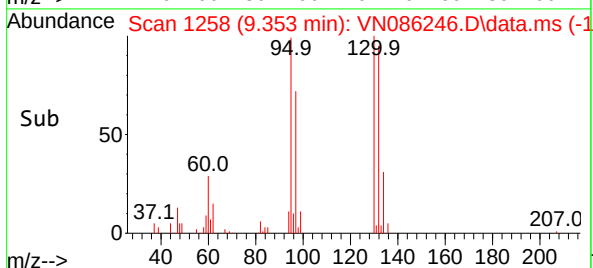
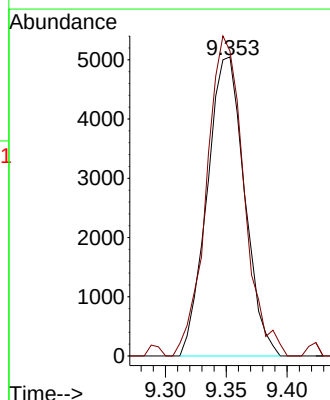
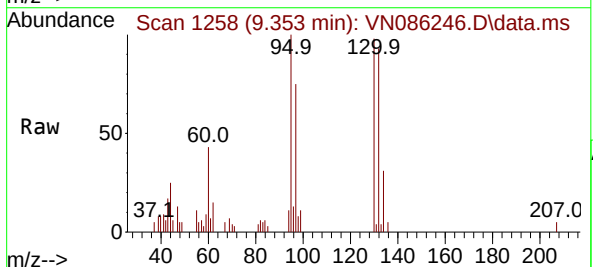
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

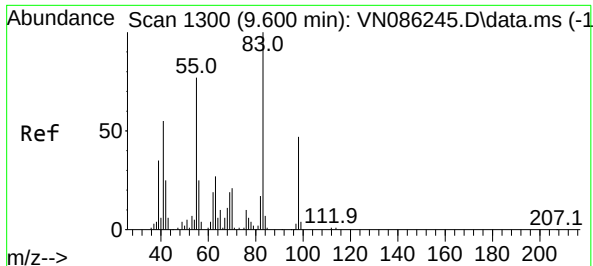
Tgt Ion: 62 Resp: 14350
Ion Ratio Lower Upper
62 100
98 5.6 8.6 12.8#



#37
Trichloroethene
Concen: 4.697 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:130 Resp: 10774
Ion Ratio Lower Upper
130 100
95 98.0 76.4 114.6

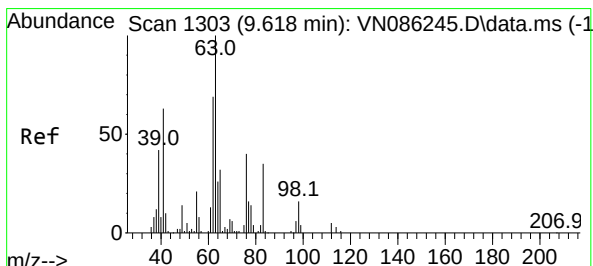
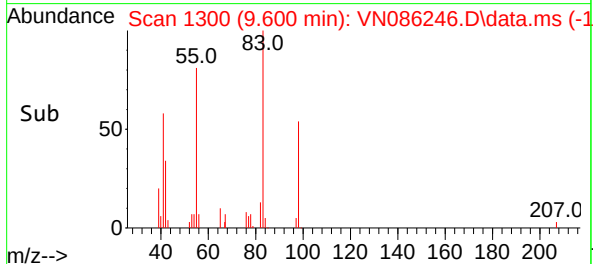
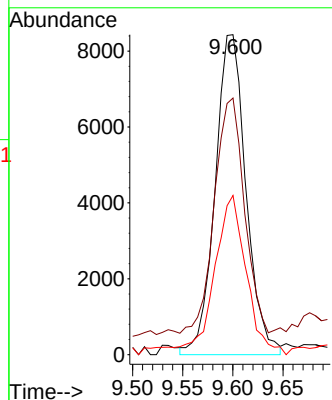
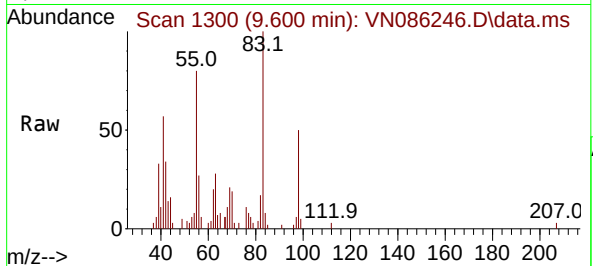




#38
Methylcyclohexane
Concen: 4.929 ug/l
RT: 9.600 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

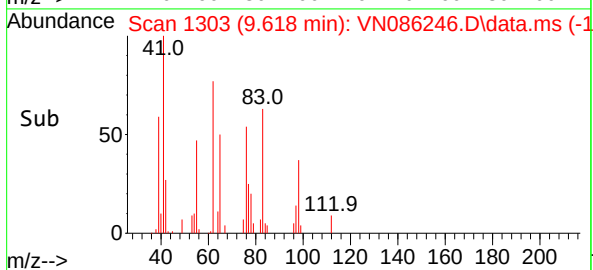
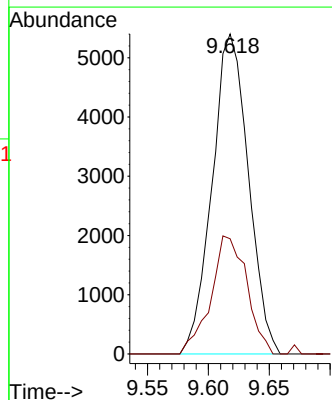
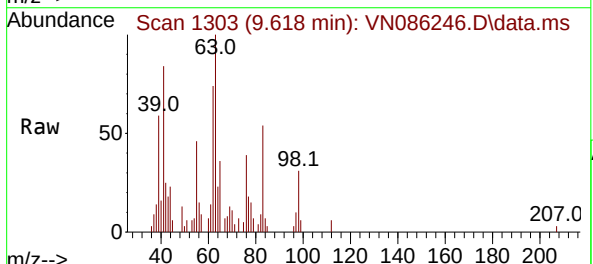
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

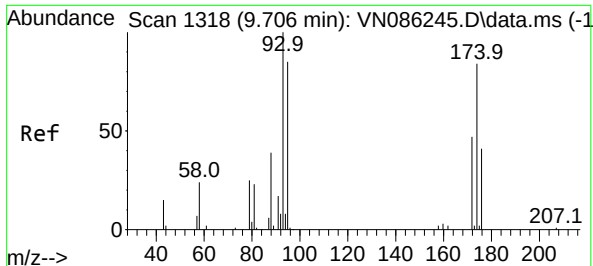
Tgt Ion: 83 Resp: 18064
Ion Ratio Lower Upper
83 100
55 74.6 38.5 115.5
98 50.9 24.4 73.2



#39
1,2-Dichloropropane
Concen: 4.735 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 63 Resp: 11201
Ion Ratio Lower Upper
63 100
65 36.0 26.0 39.0

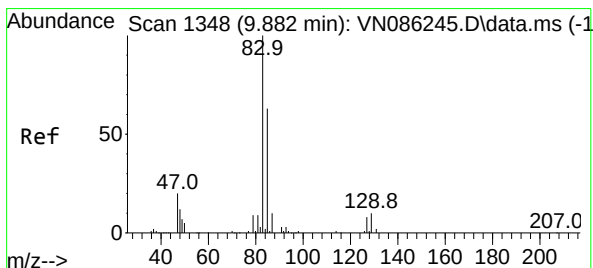
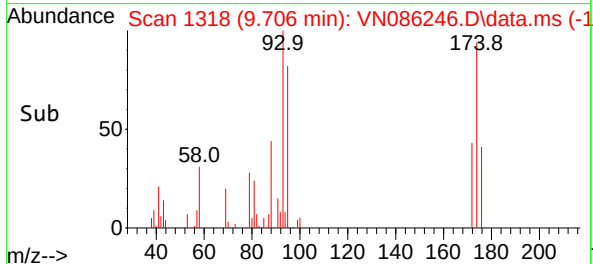
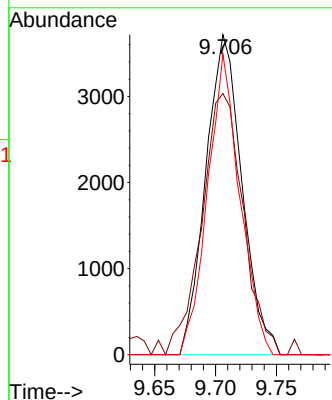
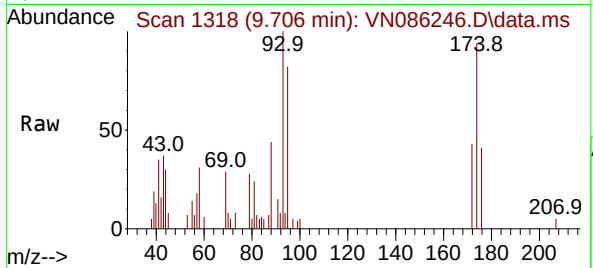




#40
Dibromomethane
Concen: 5.042 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

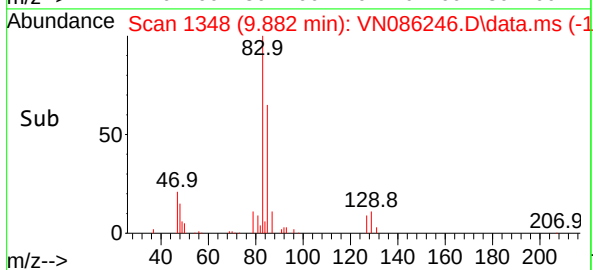
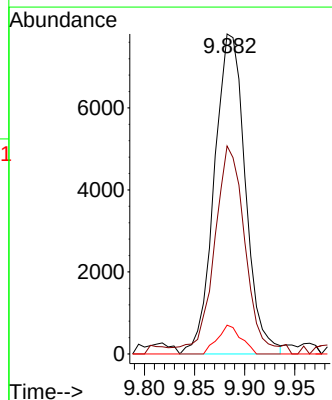
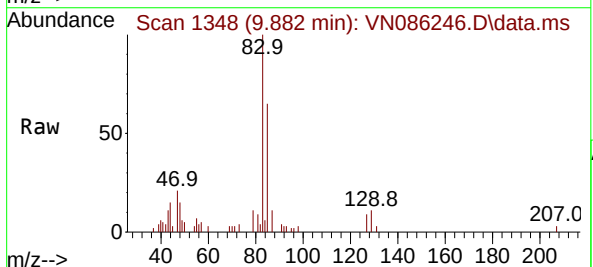
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

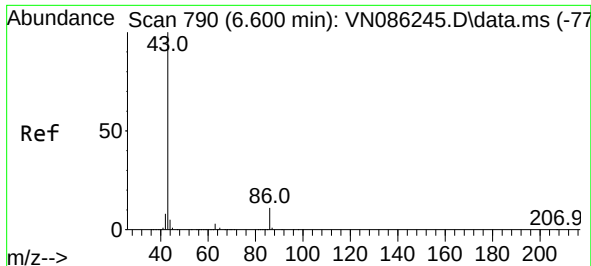
Tgt Ion:	93	Resp:	7704
Ion	Ratio	Lower	Upper
93	100		
95	93.0	0.0	169.0
174	83.9	0.0	168.0



#41
Bromodichloromethane
Concen: 5.109 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:	83	Resp:	16772
Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.2	75.2
127	9.0	6.2	9.4

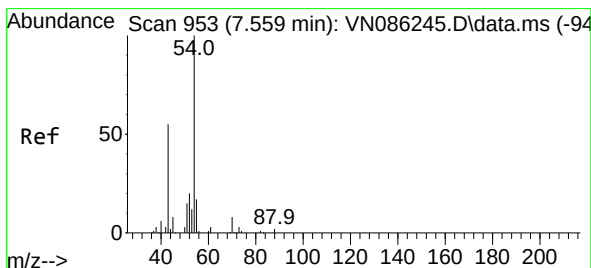
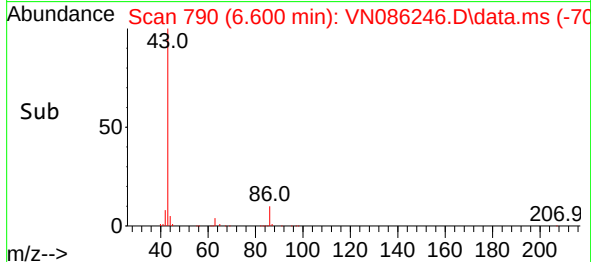
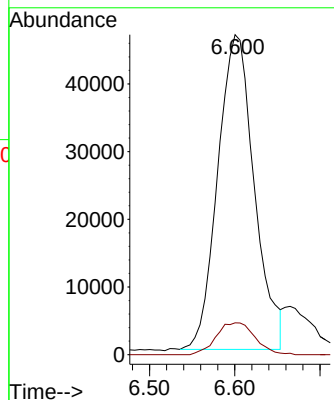
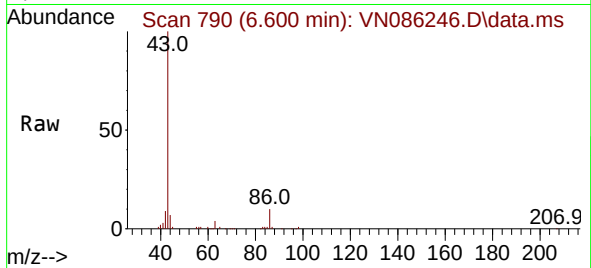




#42
 Vinyl Acetate
 Concen: 24.613 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

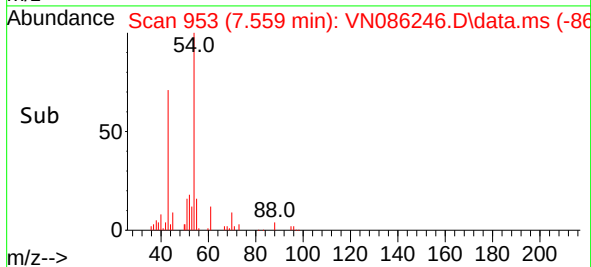
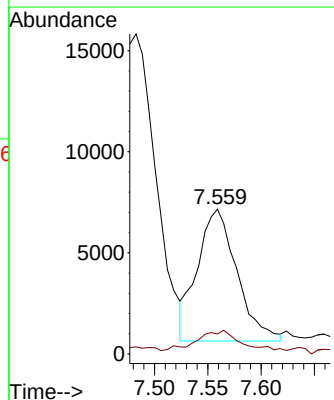
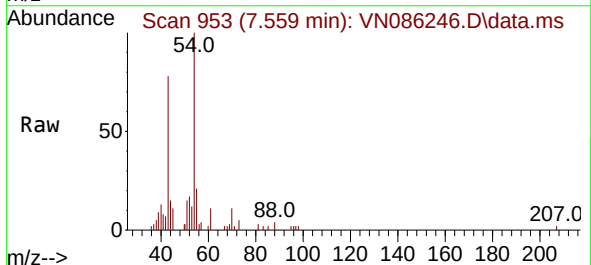
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

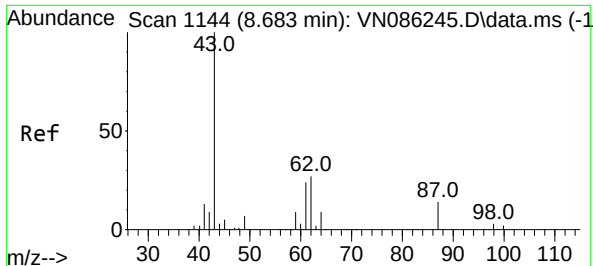
Tgt Ion: 43 Resp: 138739
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.4 12.6



#43
 Ethyl Acetate
 Concen: 5.045 ug/l
 RT: 7.559 min Scan# 953
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion: 43 Resp: 16850
 Ion Ratio Lower Upper
 43 100
 45 5.4 11.2 16.8#

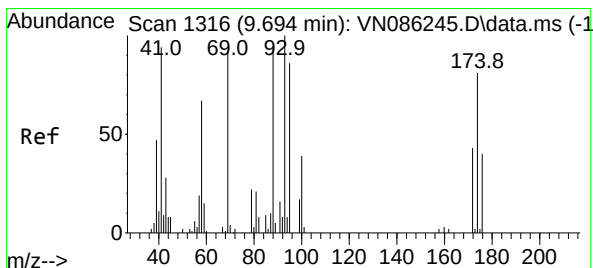
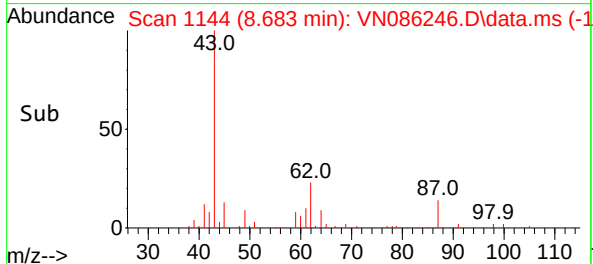
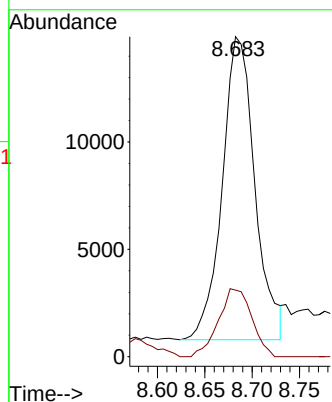
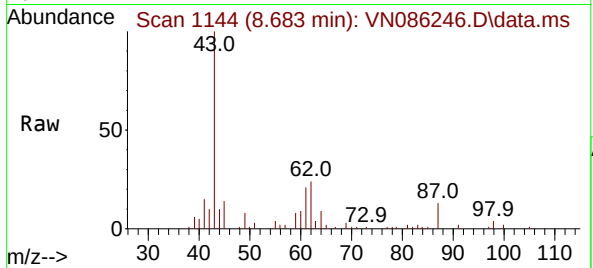




#44
Isopropyl Acetate
Concen: 5.463 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

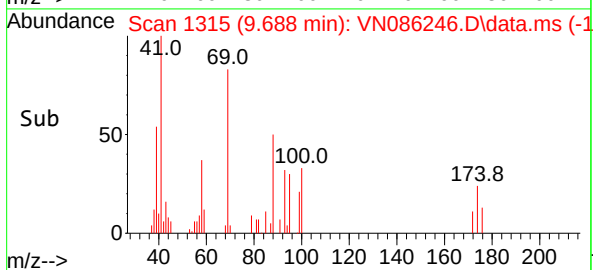
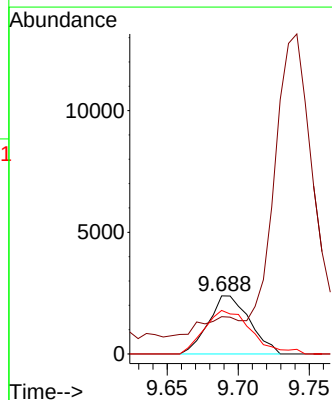
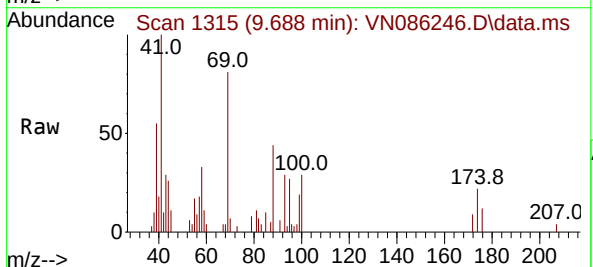
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

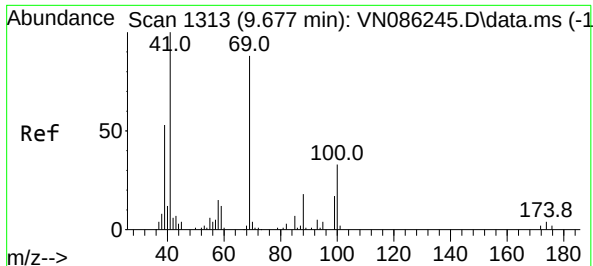
Tgt Ion: 43 Resp: 33849
Ion Ratio Lower Upper
43 100
61 22.8 20.5 30.7



#45
1,4-Dioxane
Concen: 97.983 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 88 Resp: 4828
Ion Ratio Lower Upper
88 100
43 5.9 14.4 21.6#
58 84.2 59.8 89.8

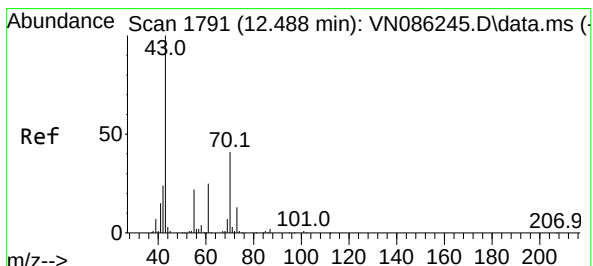
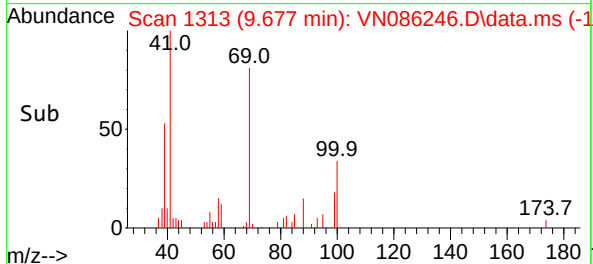
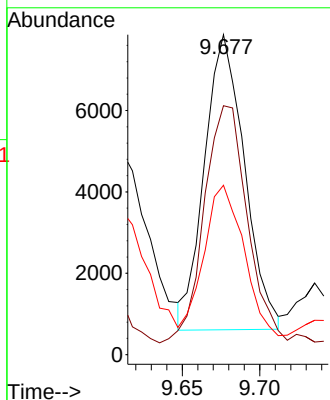
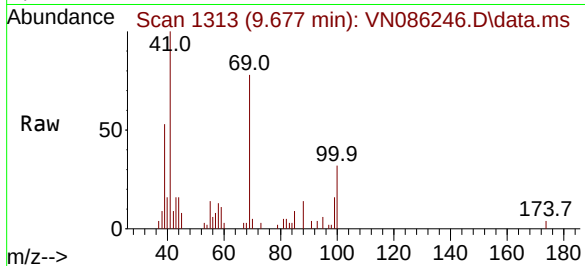




#46
Methyl methacrylate
Concen: 4.759 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

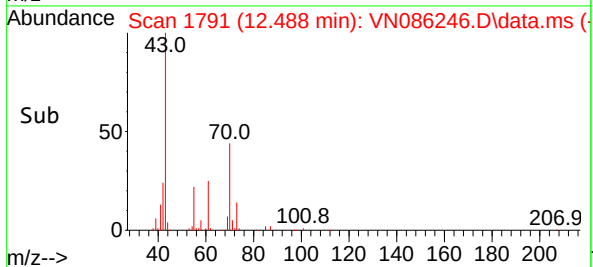
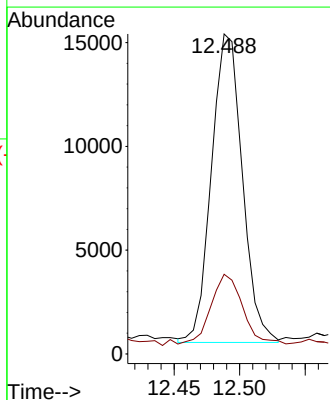
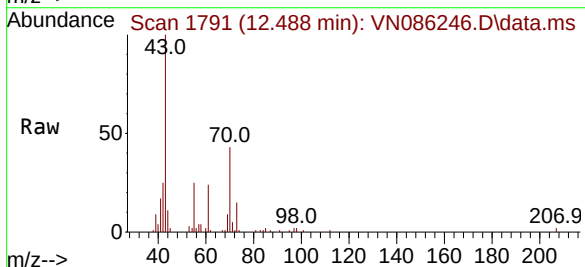
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

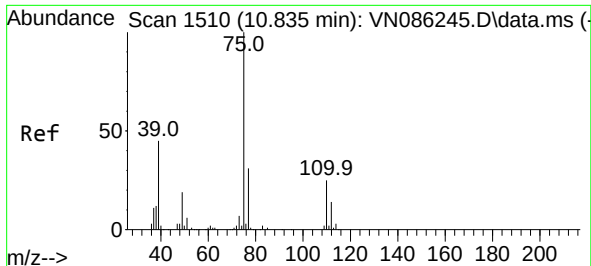
Tgt Ion: 41 Resp: 12994
Ion Ratio Lower Upper
41 100
69 79.8 43.2 129.6
39 53.4 26.4 79.0



#47
n-amy1 Acetate
Concen: 4.860 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 43 Resp: 24334
Ion Ratio Lower Upper
43 100
55 22.9 19.0 28.4

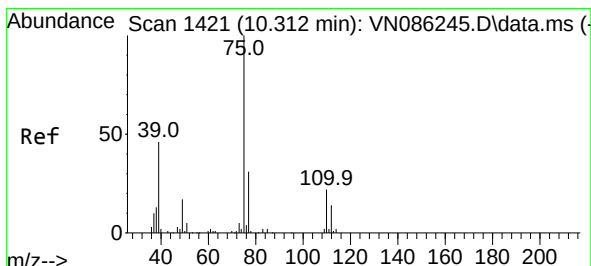
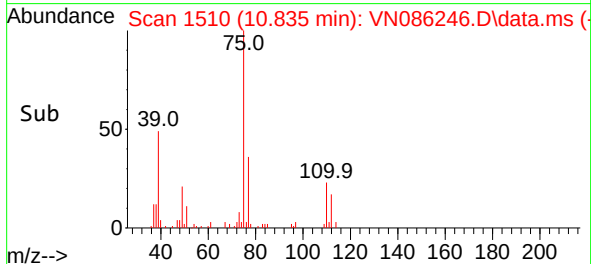
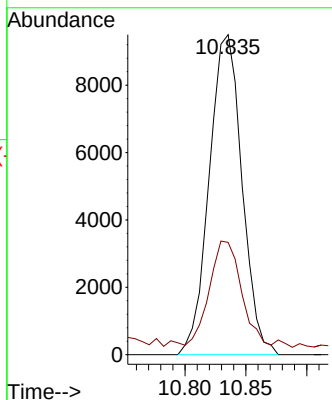
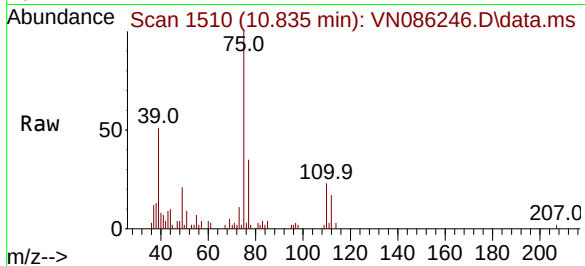




#48
 t-1,3-Dichloropropene
 Concen: 4.801 ug/l
 RT: 10.835 min Scan# 1510
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

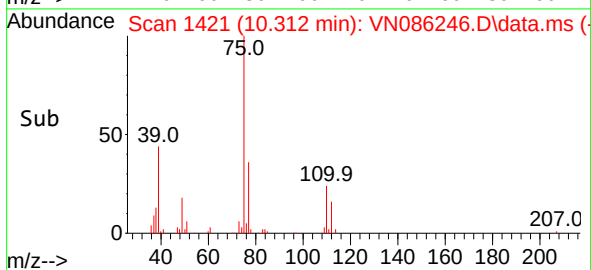
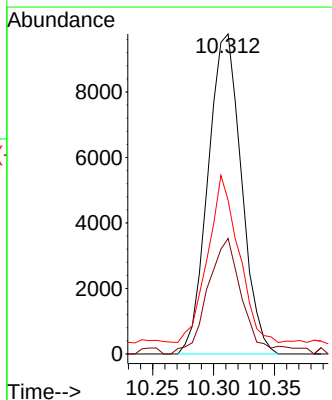
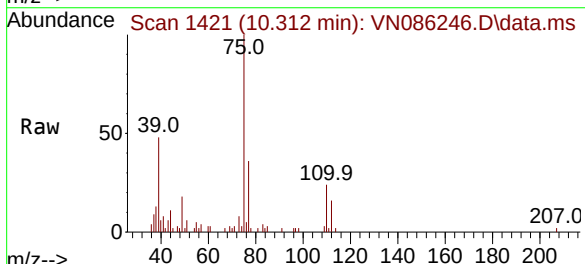
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

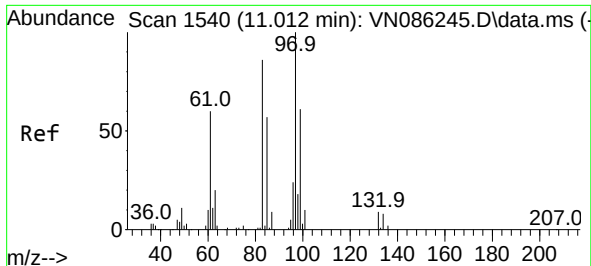
Tgt Ion: 75 Resp: 17815
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.1 37.7



#49
 cis-1,3-Dichloropropene
 Concen: 4.740 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion: 75 Resp: 18616
 Ion Ratio Lower Upper
 75 100
 77 34.4 25.0 37.4
 39 44.5 36.7 55.1

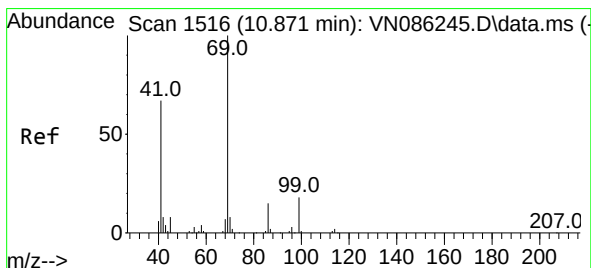
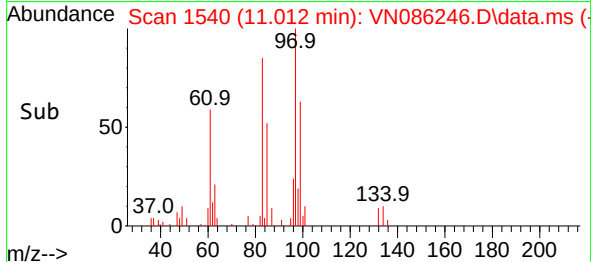
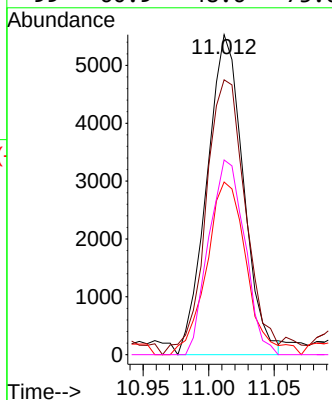
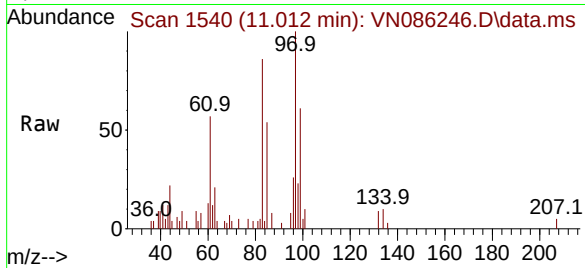




#50
1,1,2-Trichloroethane
Concen: 4.997 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

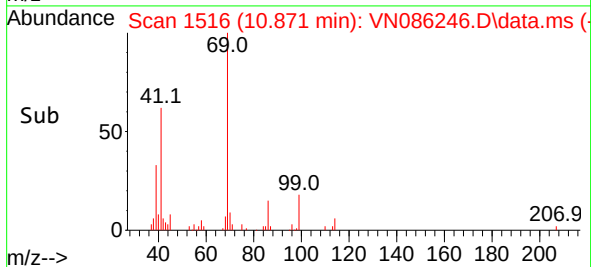
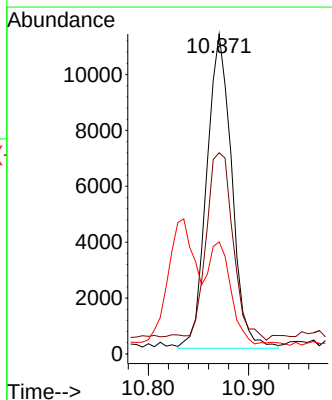
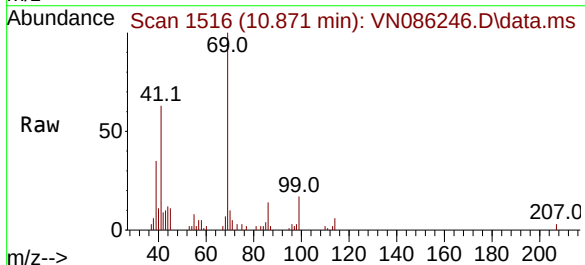
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

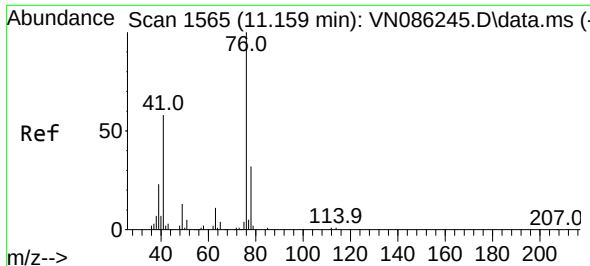
Tgt Ion:	97	Resp:	10709
Ion	Ratio	Lower	Upper
97	100		
83	82.8	68.6	103.0
85	51.2	45.9	68.9
99	60.9	48.6	73.0



#51
Ethyl methacrylate
Concen: 4.890 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:	69	Resp:	19475
Ion	Ratio	Lower	Upper
69	100		
41	58.5	33.6	100.6
39	32.2	17.8	53.4

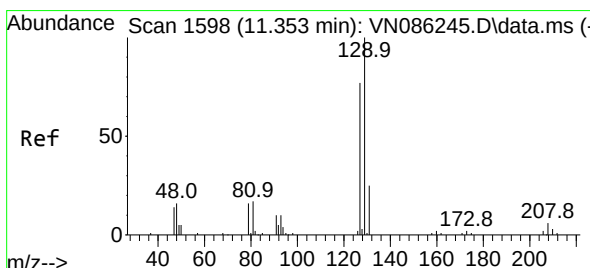
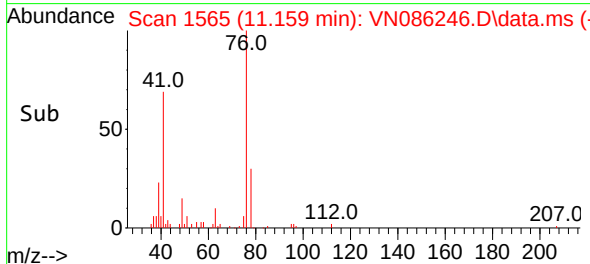
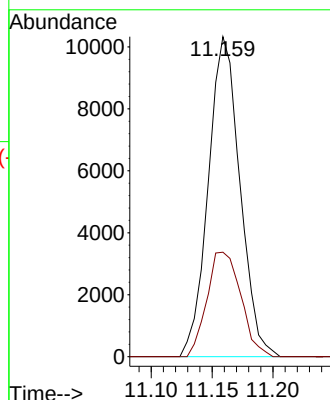
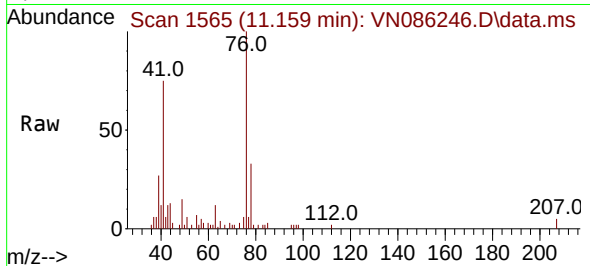




#52
1,3-Dichloropropane
Concen: 4.887 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

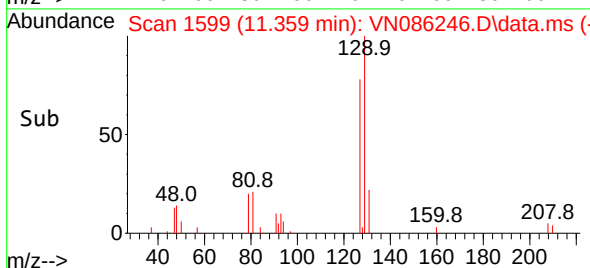
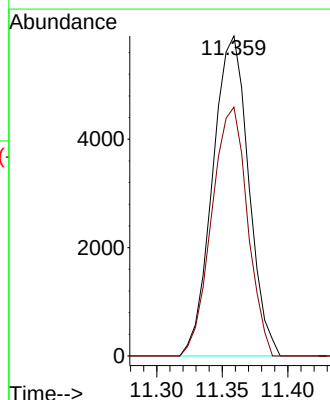
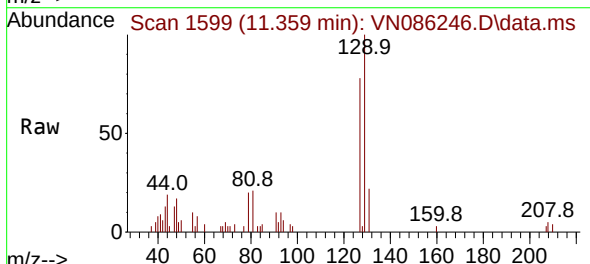
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

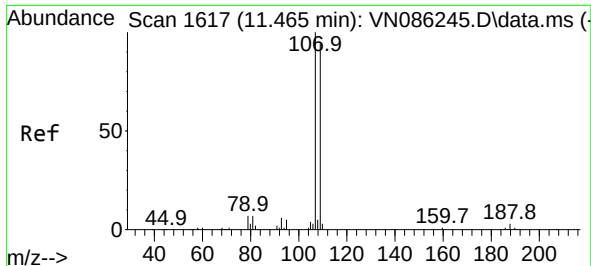
Tgt Ion: 76 Resp: 18666
Ion Ratio Lower Upper
76 100
78 35.0 0.0 64.6



#53
Dibromochloromethane
Concen: 4.813 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 129 Resp: 11282
Ion Ratio Lower Upper
129 100
127 77.0 38.5 115.5

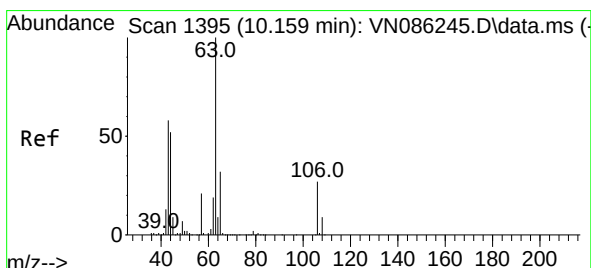
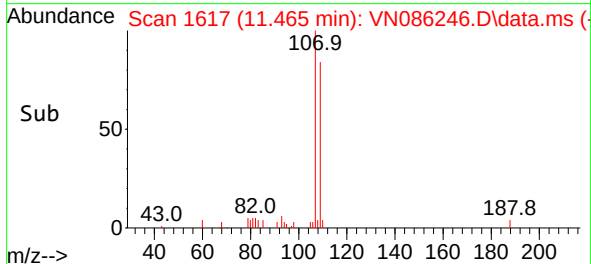
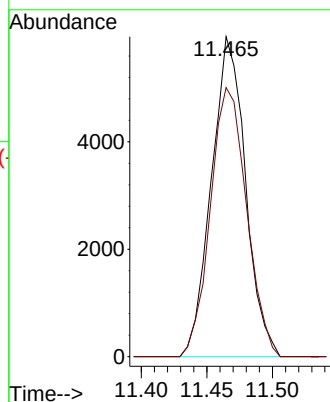
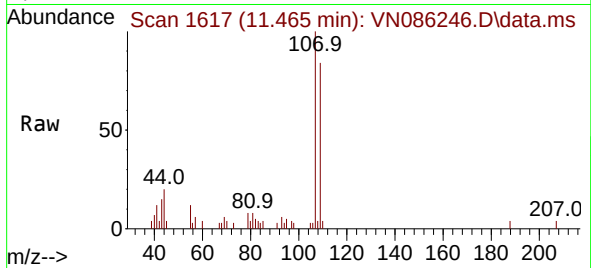




#54
1,2-Dibromoethane
Concen: 4.965 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

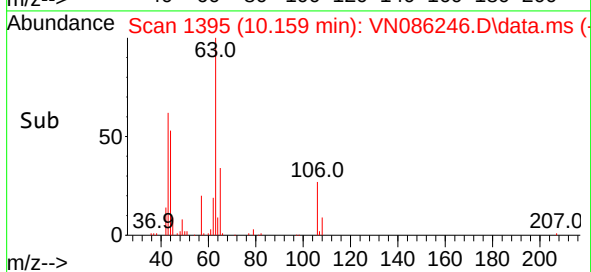
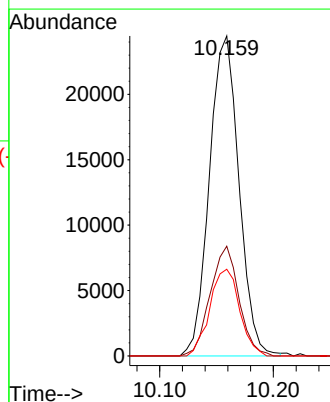
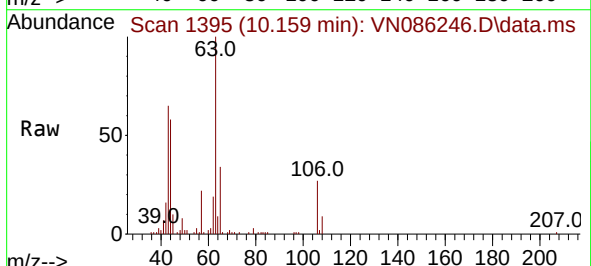
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

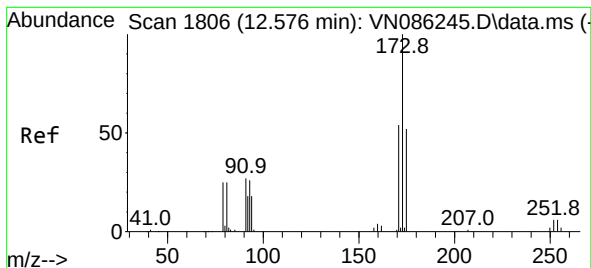
Tgt Ion:107 Resp: 10742
Ion Ratio Lower Upper
107 100
109 89.5 75.2 112.8



#55
2-Chloroethyl vinyl ether
Concen: 29.389 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 63 Resp: 44228
Ion Ratio Lower Upper
63 100
65 33.2 25.8 38.8
106 27.4 21.8 32.8

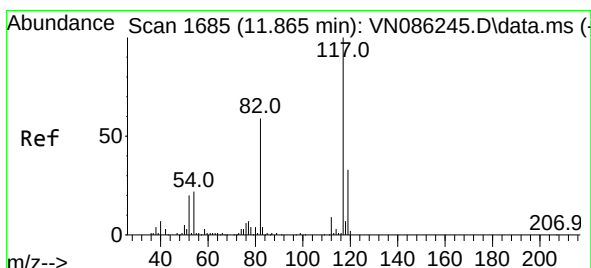
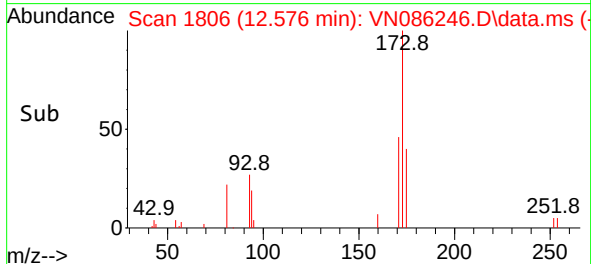
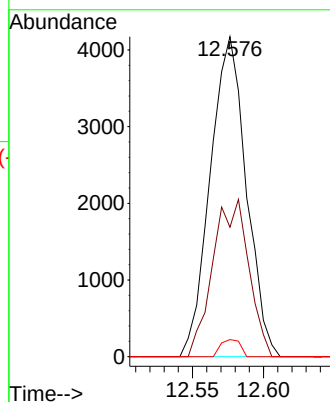
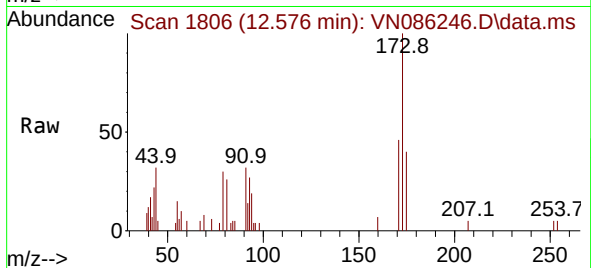




#56
Bromoform
Concen: 4.804 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

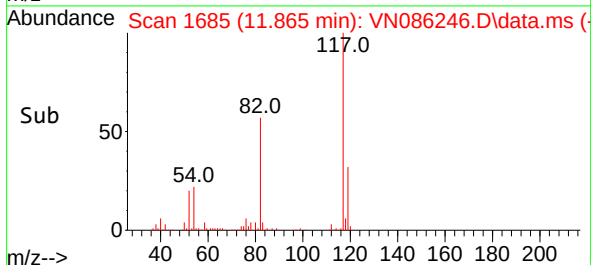
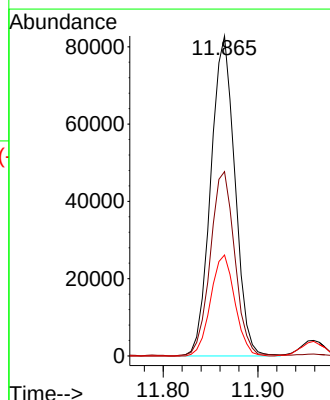
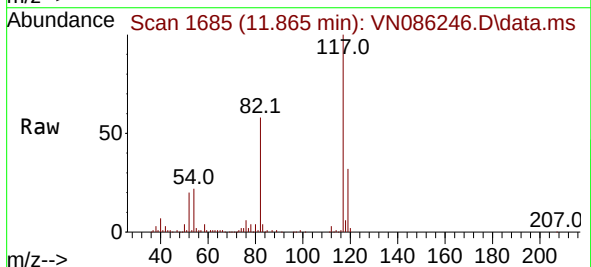
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

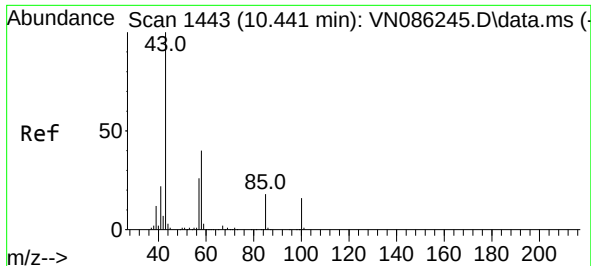
Tgt Ion:173 Resp: 7367
Ion Ratio Lower Upper
173 100
175 48.9 38.2 57.4
254 2.9 4.5 6.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:117 Resp: 146541
Ion Ratio Lower Upper
117 100
82 58.4 47.3 70.9
119 31.8 25.9 38.9

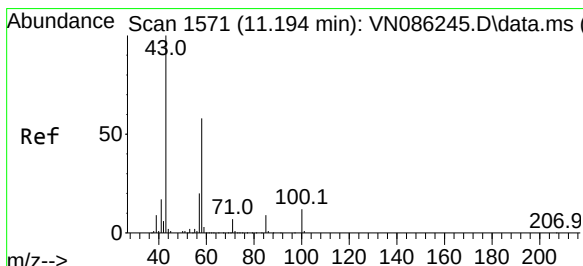
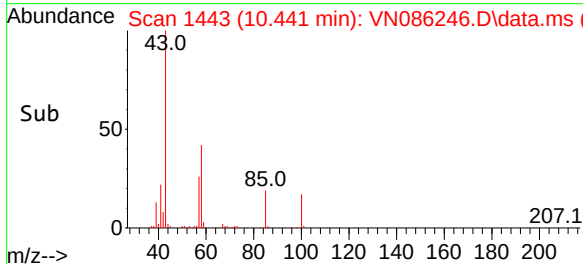
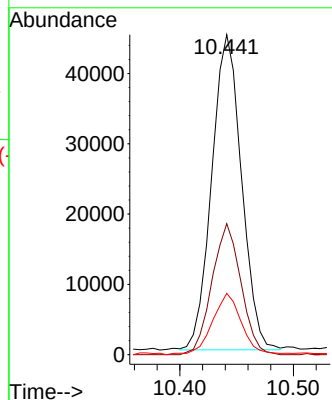
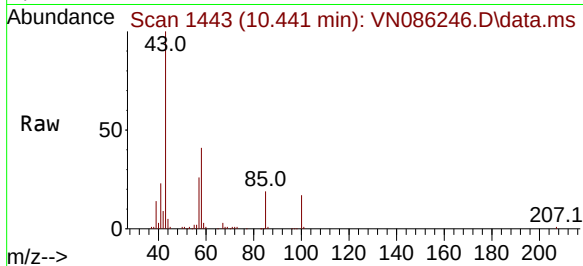




#58
4-Methyl-2-Pentanone
Concen: 24.511 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

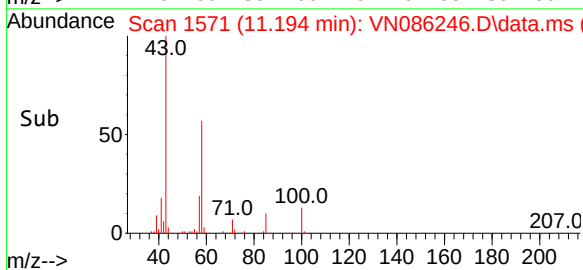
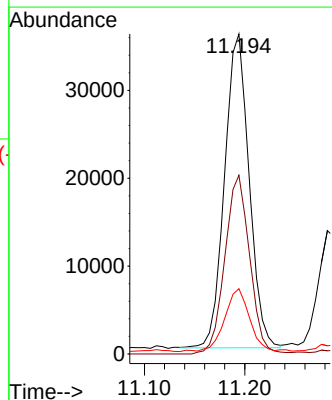
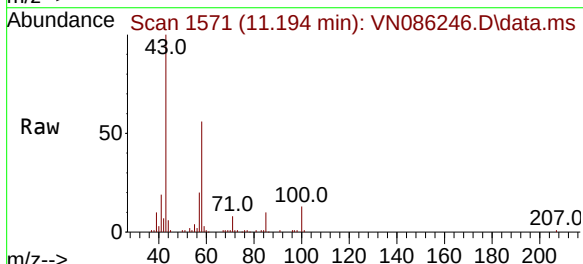
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

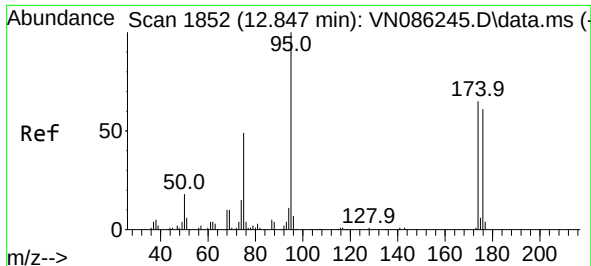
Tgt Ion:	43	Resp:	81510
Ion	Ratio	Lower	Upper
43	100		
58	40.4	32.5	48.7
85	18.8	14.4	21.6



#59
2-Hexanone
Concen: 24.465 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:	43	Resp:	60580
Ion	Ratio	Lower	Upper
43	100		
58	57.5	45.3	67.9
57	19.9	15.8	23.6

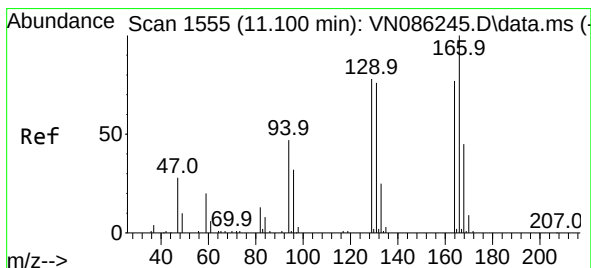
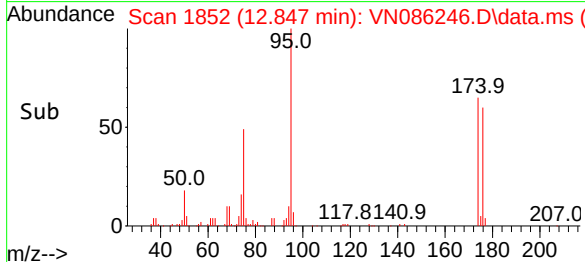
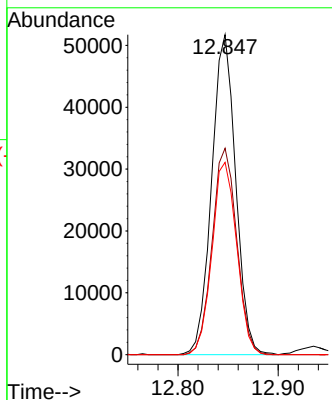
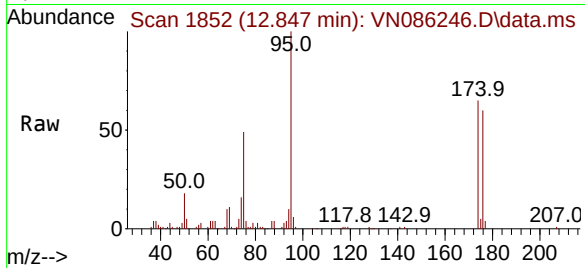




#60
4-Bromofluorobenzene
Concen: 29.576 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

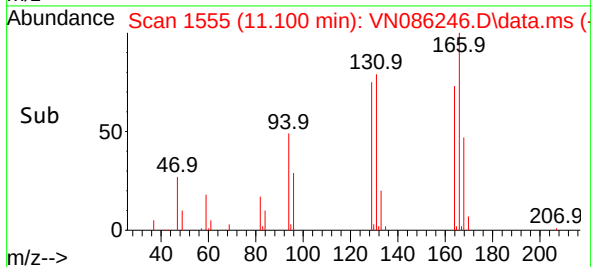
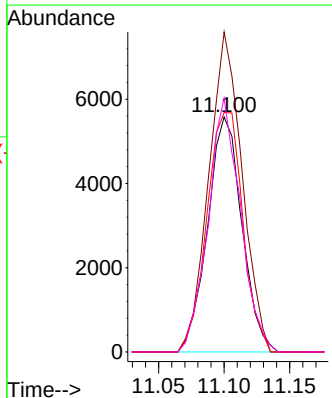
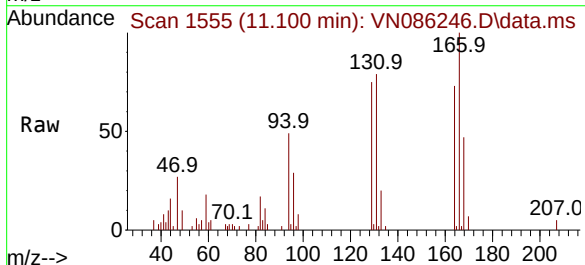
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

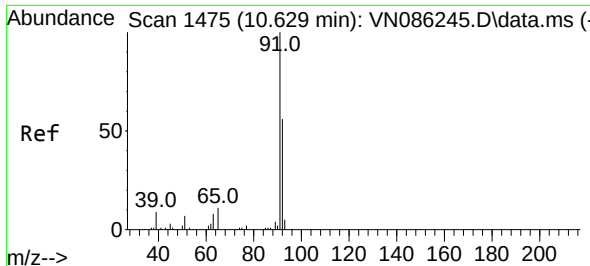
Tgt Ion: 95 Resp: 86291
Ion Ratio Lower Upper
95 100
174 66.1 52.7 79.1
176 61.8 49.8 74.8



#61
Tetrachloroethene
Concen: 4.683 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 164 Resp: 10135
Ion Ratio Lower Upper
164 100
166 136.2 104.5 156.7
129 101.9 81.7 122.5
131 108.0 79.8 119.6

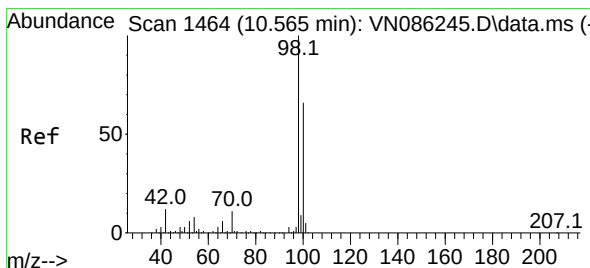
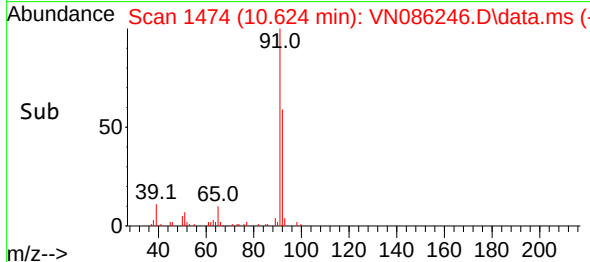
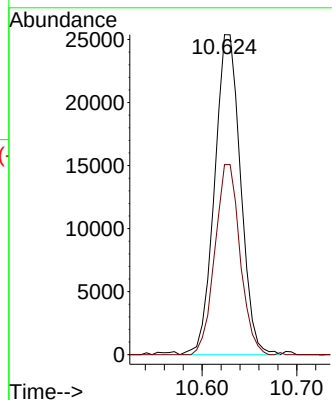
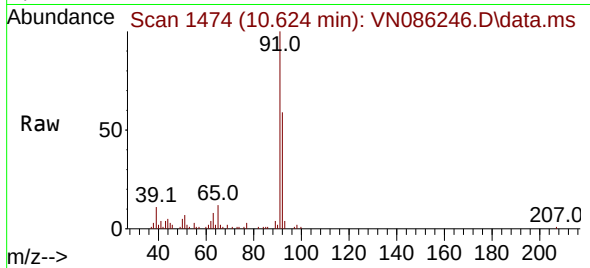




#62
Toluene
Concen: 4.923 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

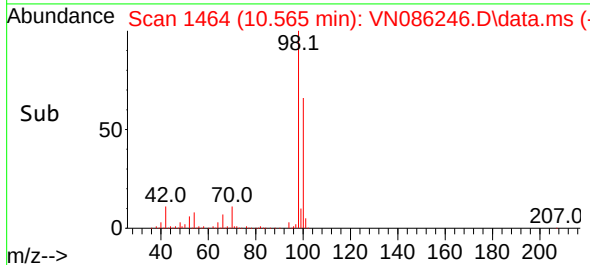
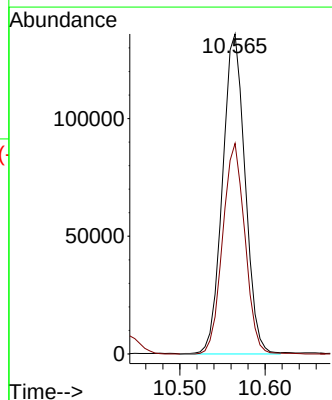
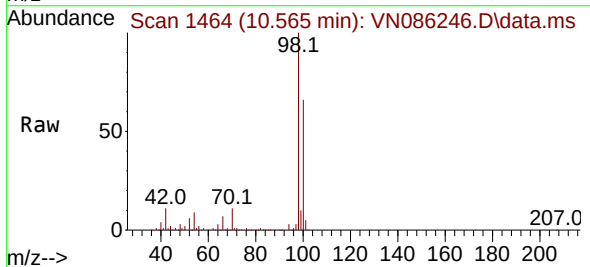
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

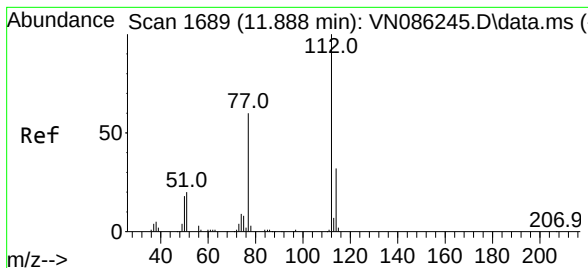
Tgt Ion: 91 Resp: 48384
Ion Ratio Lower Upper
91 100
92 57.5 46.8 70.2



#63
Toluene-d8
Concen: 30.283 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 98 Resp: 250531
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5





#64

Chlorobenzene

Concen: 4.980 ug/l

RT: 11.888 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

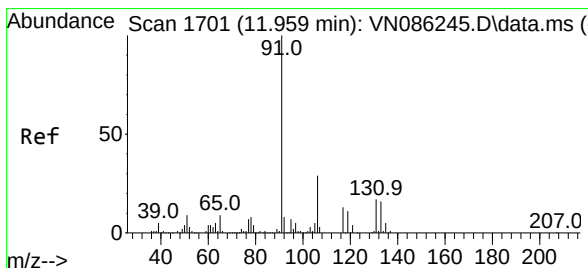
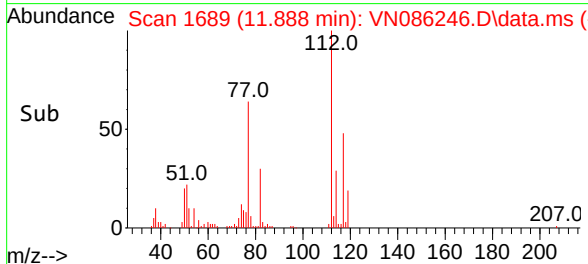
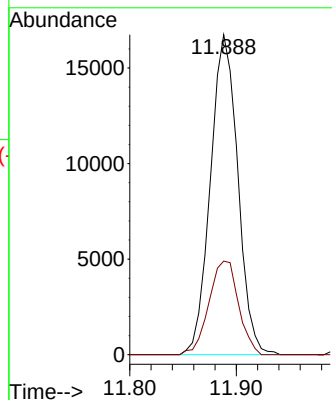
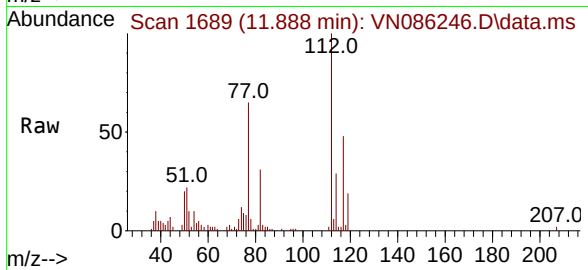
VSTDICC005

Tgt Ion:112 Resp: 29905

Ion Ratio Lower Upper

112 100

114 29.3 25.8 38.6



#65

1,1,1,2-Tetrachloroethane

Concen: 4.845 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

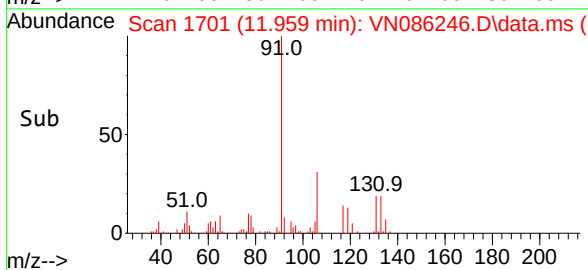
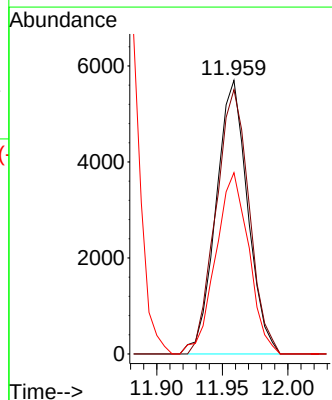
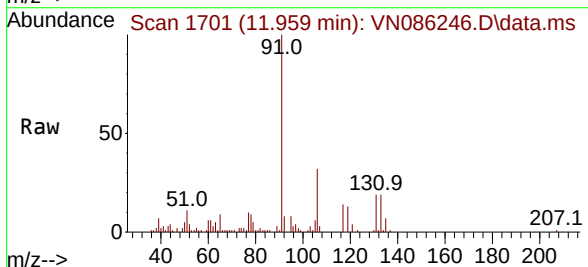
Tgt Ion:131 Resp: 9602

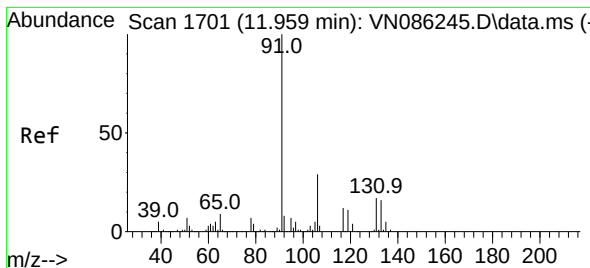
Ion Ratio Lower Upper

131 100

133 100.9 0.0 190.4

119 69.0 0.0 135.6

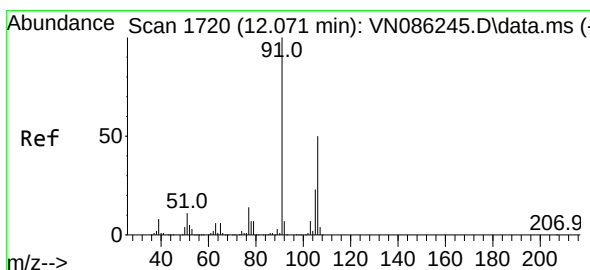
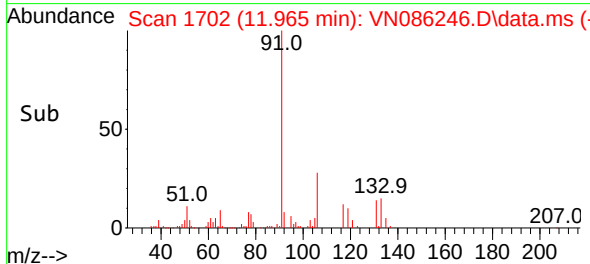
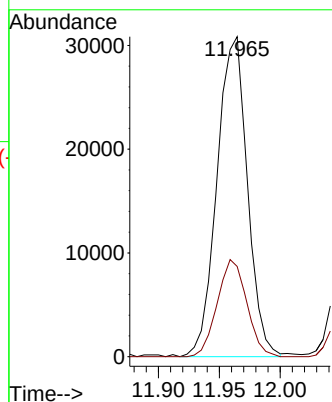
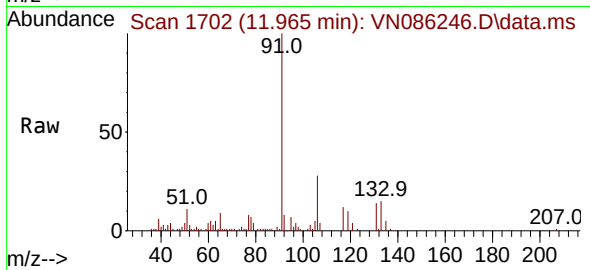




#66
Ethyl Benzene
Concen: 4.912 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

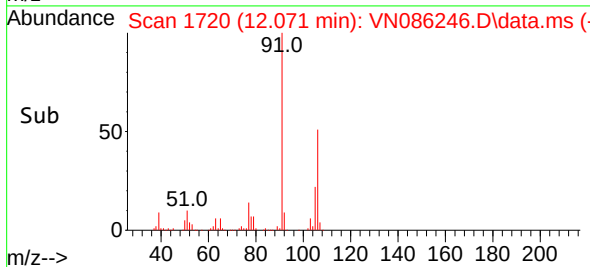
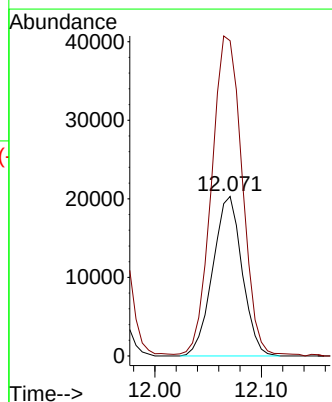
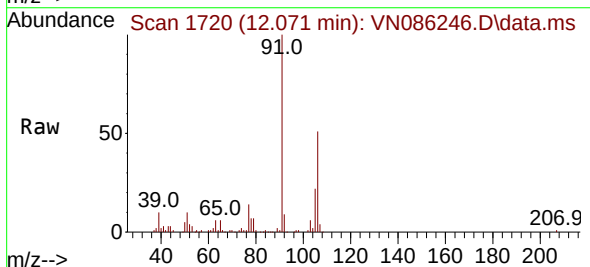
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

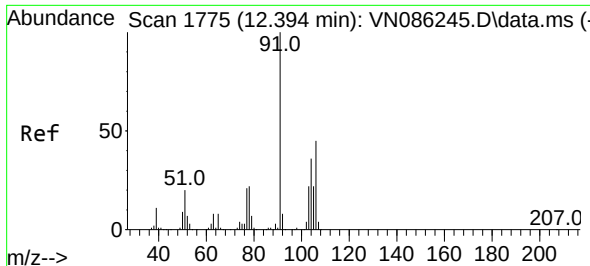
Tgt Ion: 91 Resp: 53539
Ion Ratio Lower Upper
91 100
106 28.2 23.4 35.0



#67
m/p-Xylenes
Concen: 9.597 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 106 Resp: 38897
Ion Ratio Lower Upper
106 100
91 209.5 164.5 246.7

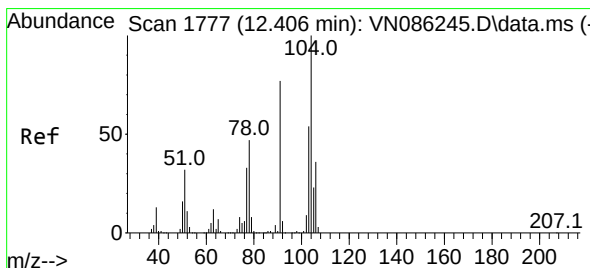
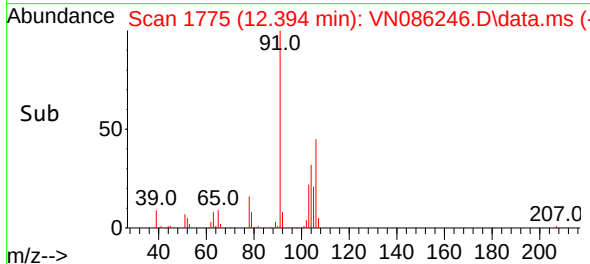
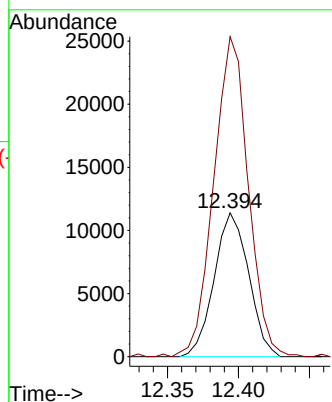
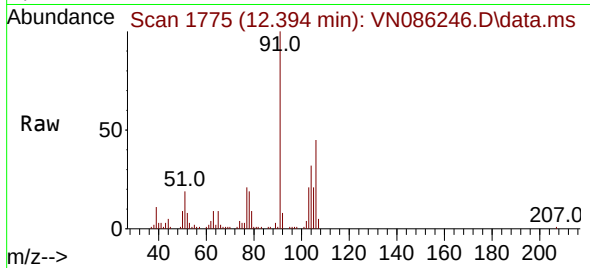




#68
o-Xylene
Concen: 4.822 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

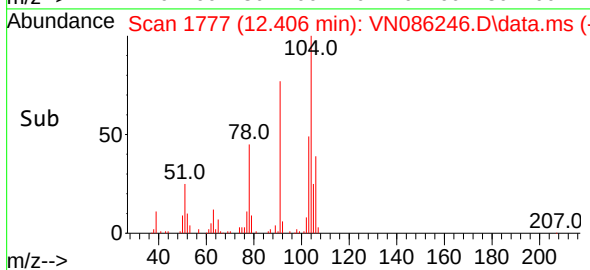
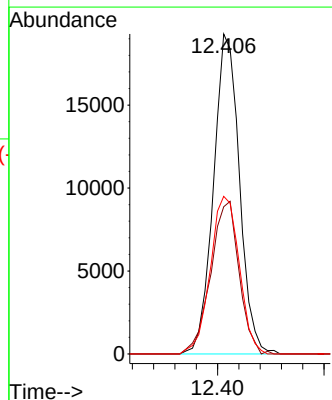
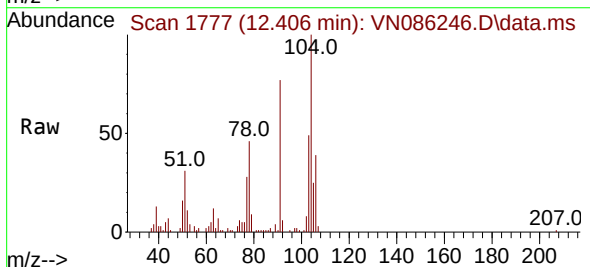
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

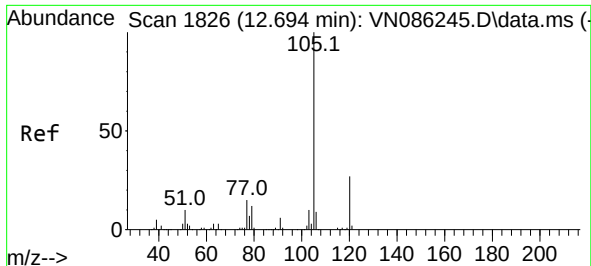
Tgt Ion:106 Resp: 19223
Ion Ratio Lower Upper
106 100
91 222.7 109.8 329.4



#69
Styrene
Concen: 4.846 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:104 Resp: 32582
Ion Ratio Lower Upper
104 100
78 51.8 41.4 62.0
103 54.8 44.2 66.4

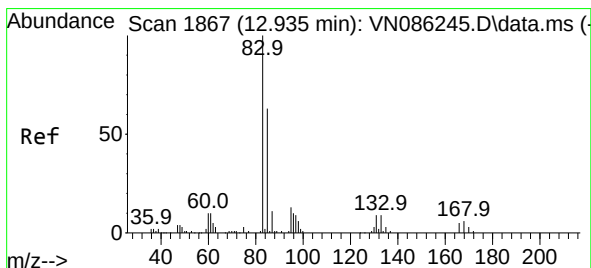
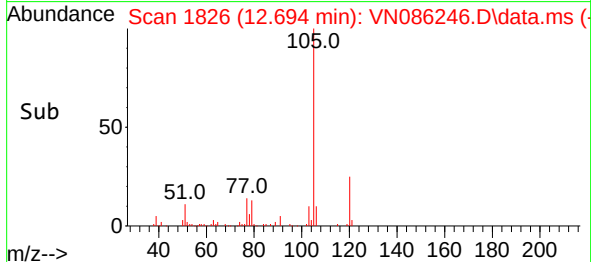
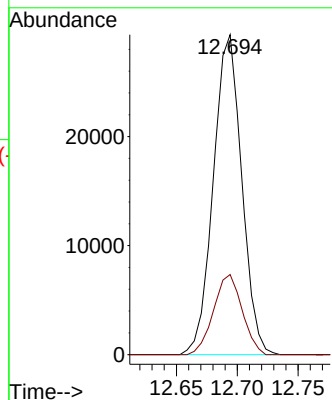
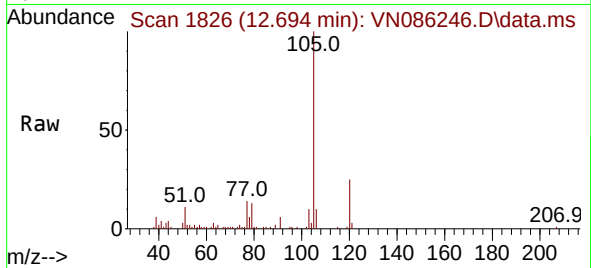




#70
Isopropylbenzene
Concen: 4.839 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

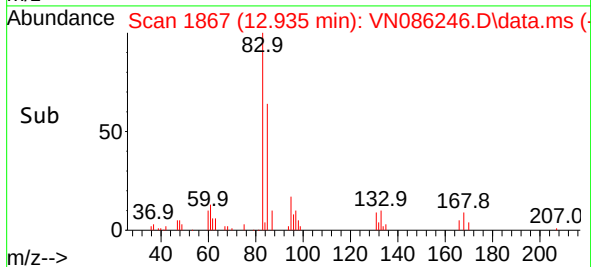
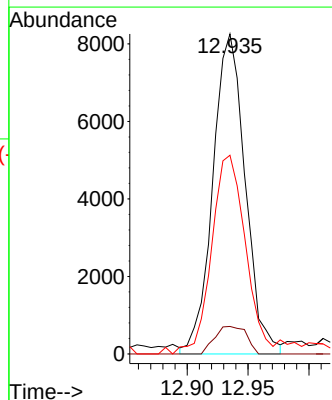
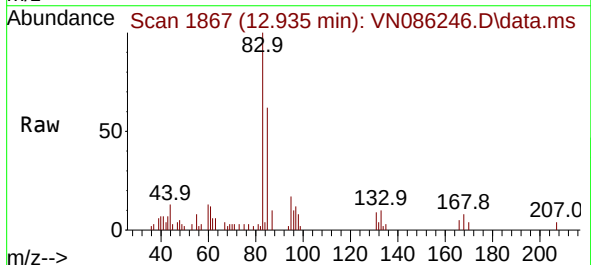
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

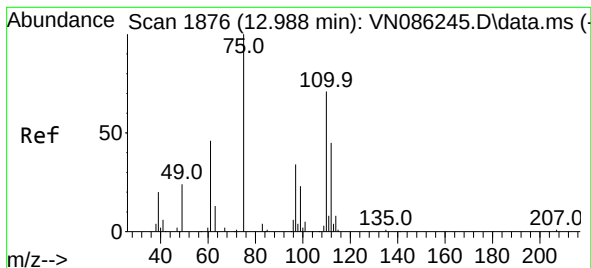
Tgt Ion:105 Resp: 47563
Ion Ratio Lower Upper
105 100
120 25.3 18.3 34.1



#71
1,1,2,2-Tetrachloroethane
Concen: 5.466 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 83 Resp: 15293
Ion Ratio Lower Upper
83 100
131 8.4 4.8 14.3
85 58.9 32.3 96.8





#72

1,2,3-Trichloropropane

Concen: 5.381 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

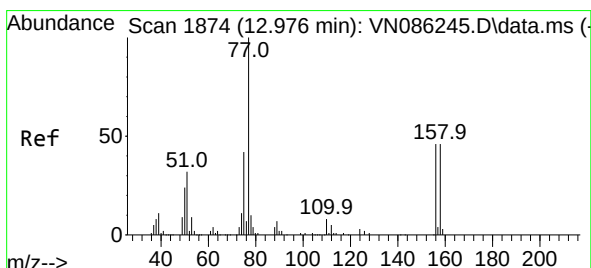
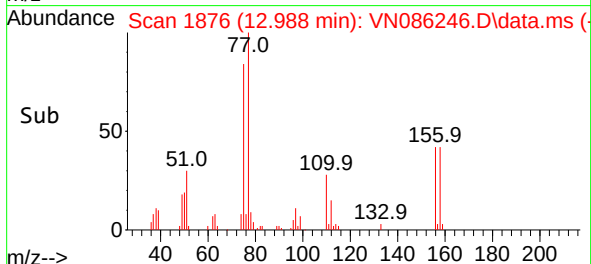
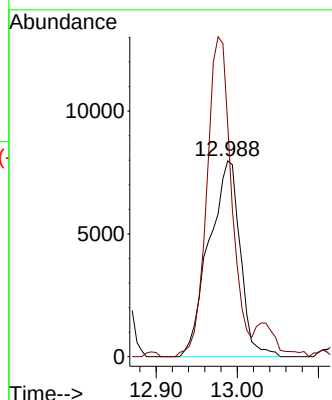
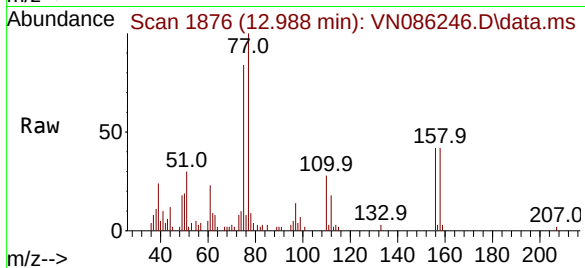
VSTDIC005

Tgt Ion: 75 Resp: 21313

Ion Ratio Lower Upper

75 100

77 128.9 0.0 380.0



#73

Bromobenzene

Concen: 4.831 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

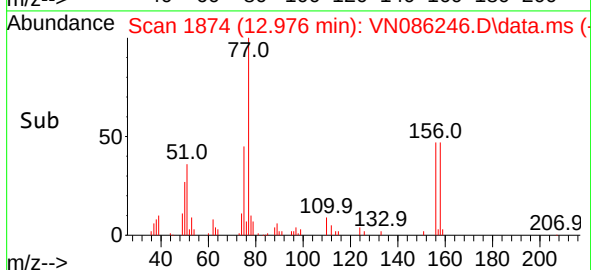
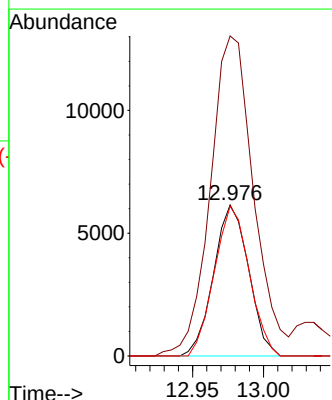
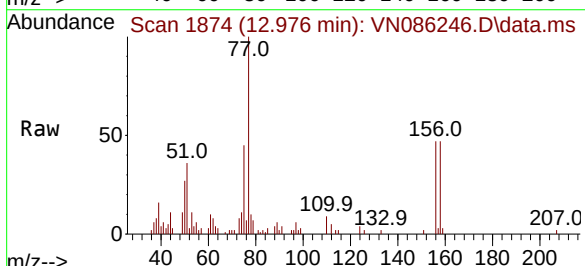
Tgt Ion: 156 Resp: 10521

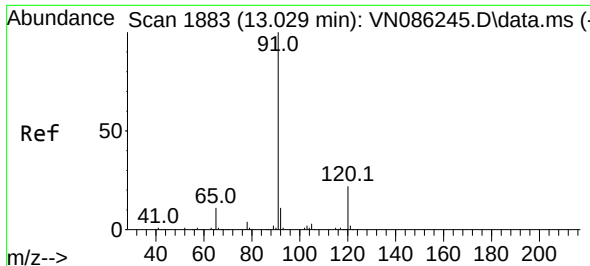
Ion Ratio Lower Upper

156 100

77 261.1 0.0 505.2

158 98.7 0.0 195.0

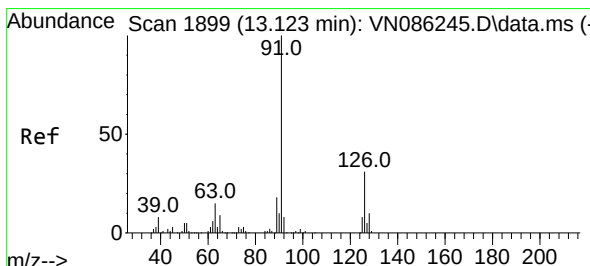
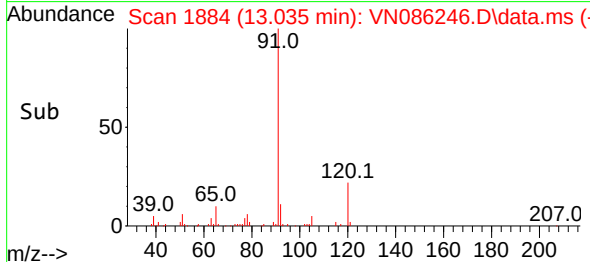
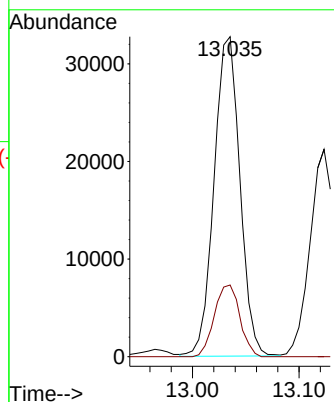
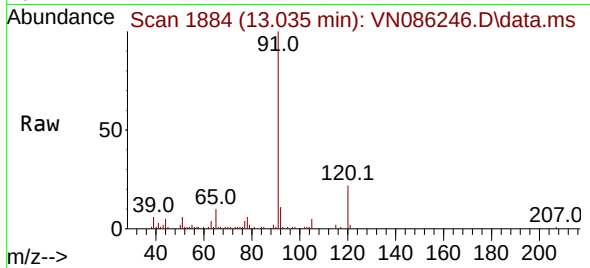




#74
n-propylbenzene
Concen: 4.734 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

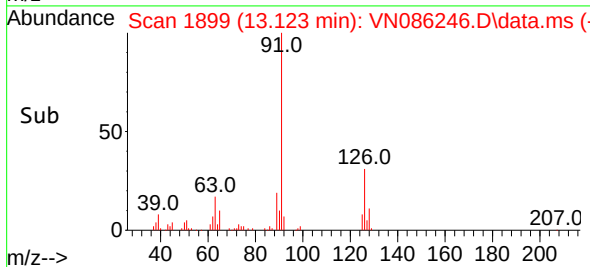
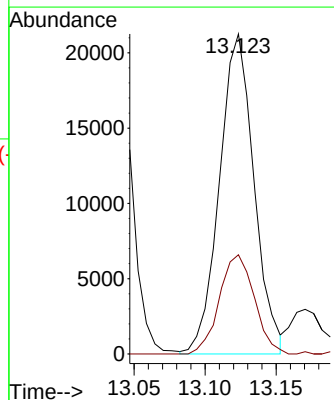
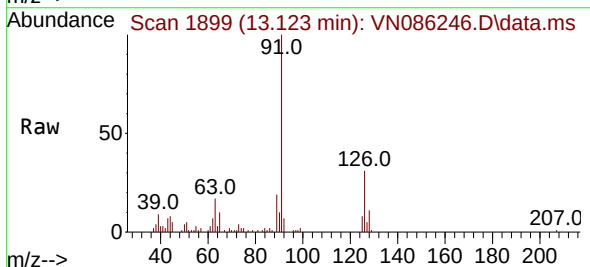
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

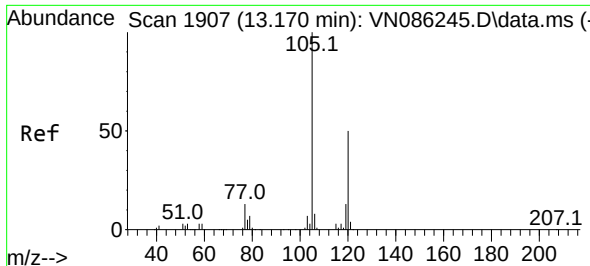
Tgt Ion: 91 Resp: 55104
Ion Ratio Lower Upper
91 100
120 22.1 0.0 44.0



#75
2-Chlorotoluene
Concen: 4.929 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 91 Resp: 35960
Ion Ratio Lower Upper
91 100
126 31.3 0.0 63.4

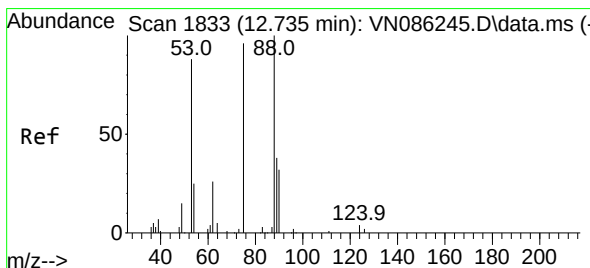
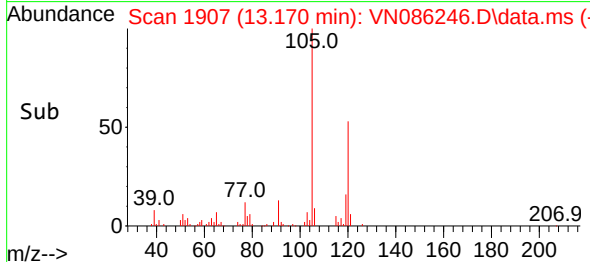
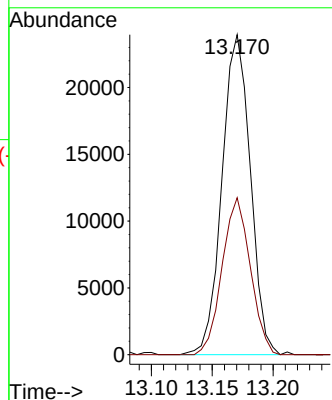
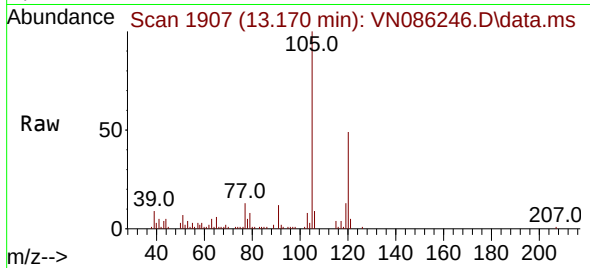




#76
1,3,5-Trimethylbenzene
Concen: 4.800 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

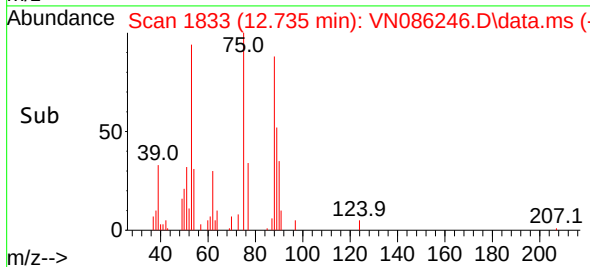
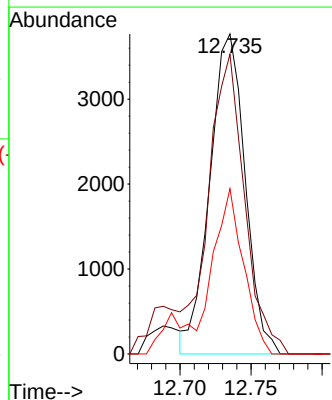
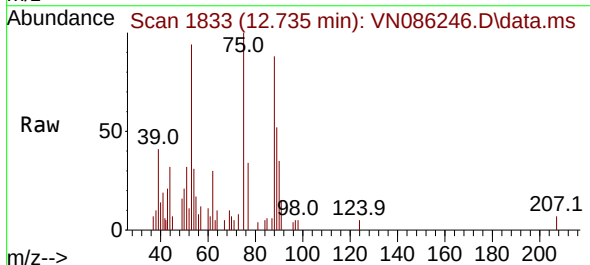
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

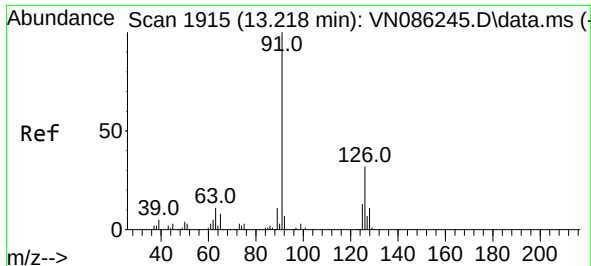
Tgt Ion:105 Resp: 38762
Ion Ratio Lower Upper
105 100
120 48.8 0.0 98.0



#77
t-1,4-Dichloro-2-butene
Concen: 4.845 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 75 Resp: 6507
Ion Ratio Lower Upper
75 100
53 89.4 46.4 139.2
89 51.6 22.5 67.5

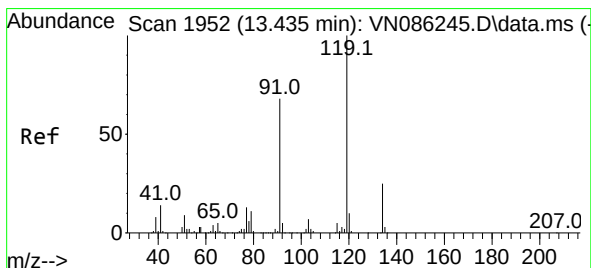
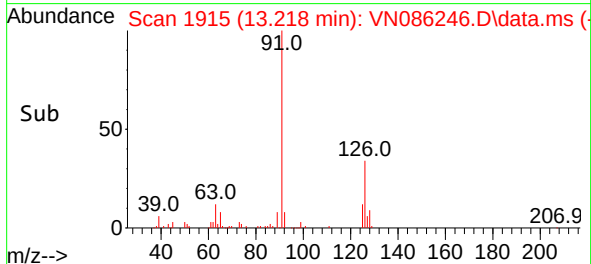
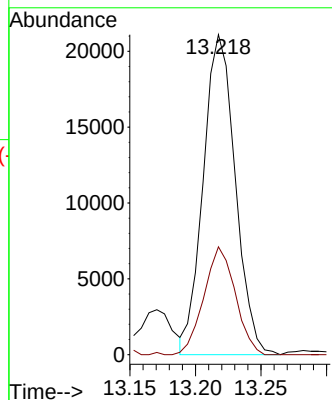
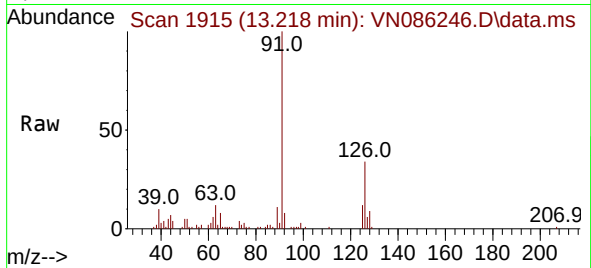




#78
4-Chlorotoluene
Concen: 4.927 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

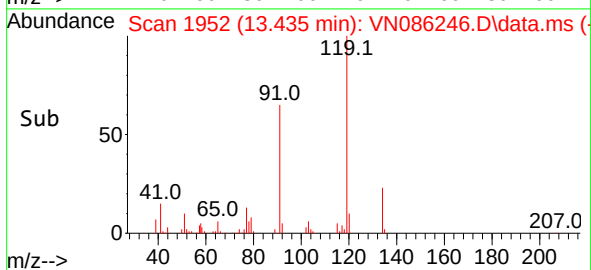
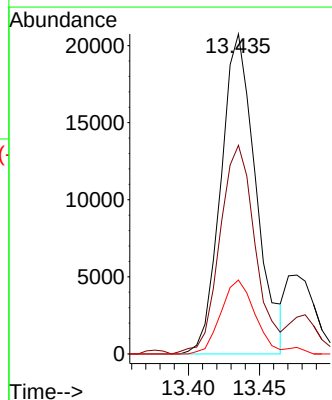
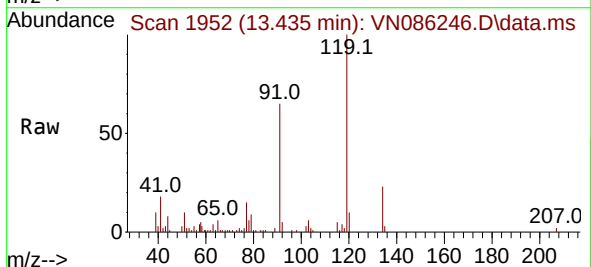
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

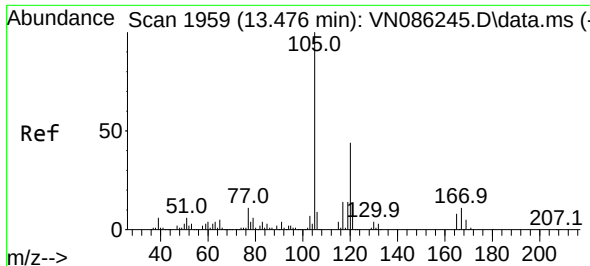
Tgt Ion: 91 Resp: 35898
Ion Ratio Lower Upper
91 100
126 33.0 0.0 63.2



#79
tert-butylbenzene
Concen: 5.092 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 119 Resp: 35578
Ion Ratio Lower Upper
119 100
91 66.0 0.0 136.6
134 22.4 0.0 49.4

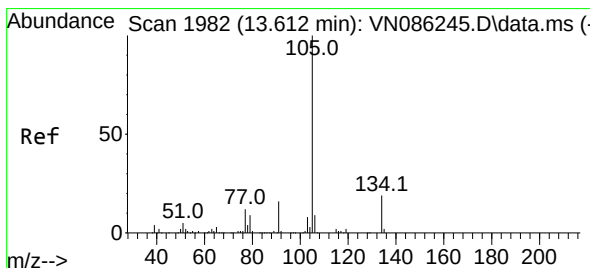
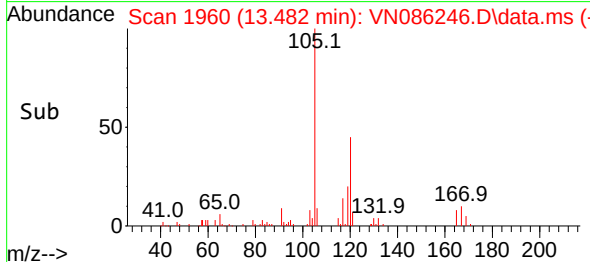
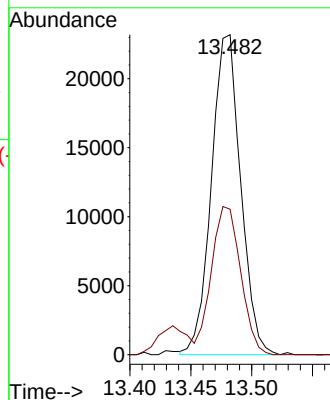
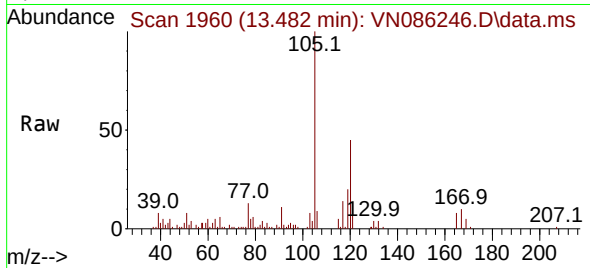




#80
1,2,4-Trimethylbenzene
Concen: 4.730 ug/l
RT: 13.482 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

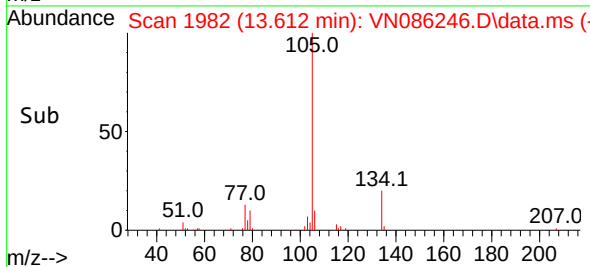
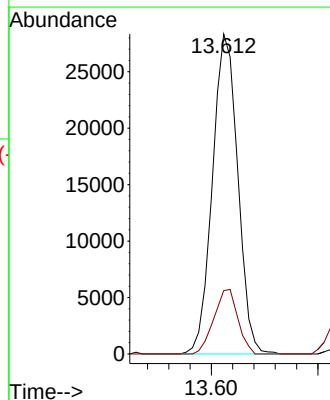
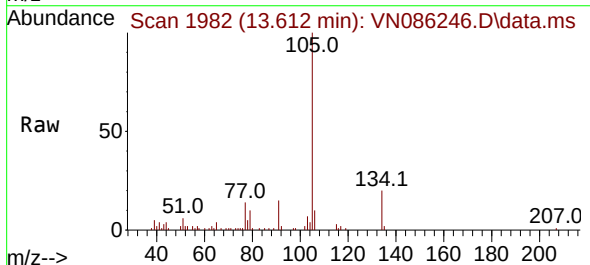
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

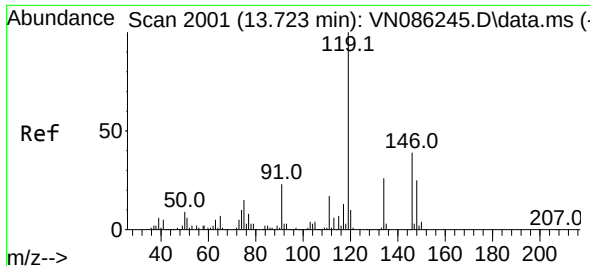
Tgt Ion:105 Resp: 38730
Ion Ratio Lower Upper
105 100
120 46.3 0.0 91.0



#81
sec-Butylbenzene
Concen: 4.798 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:105 Resp: 46761
Ion Ratio Lower Upper
105 100
134 19.1 0.0 38.6

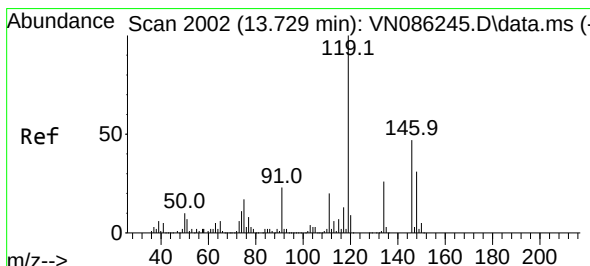
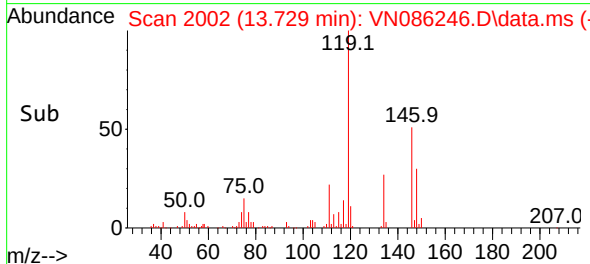
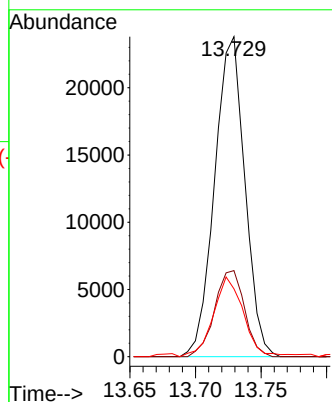
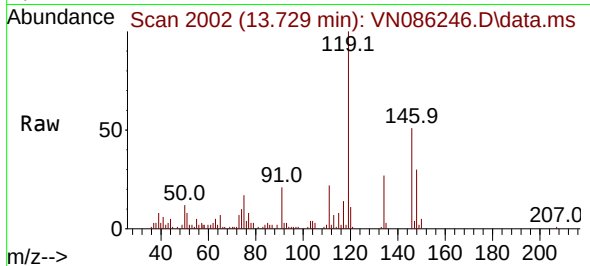




#82
p-Isopropyltoluene
Concen: 4.692 ug/l
RT: 13.729 min Scan# 2001
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

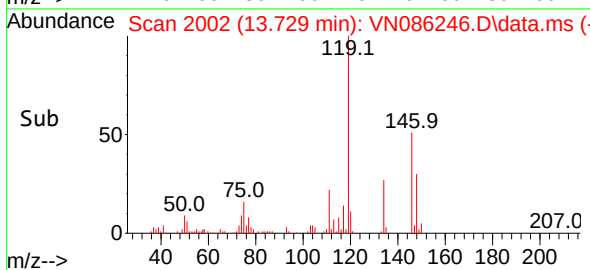
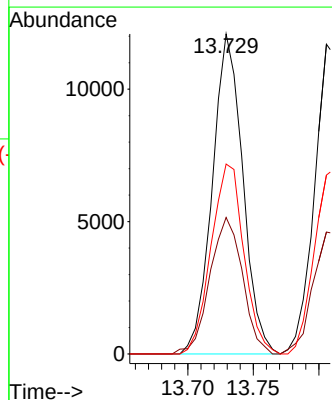
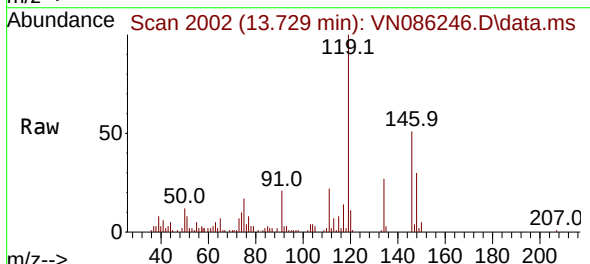
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

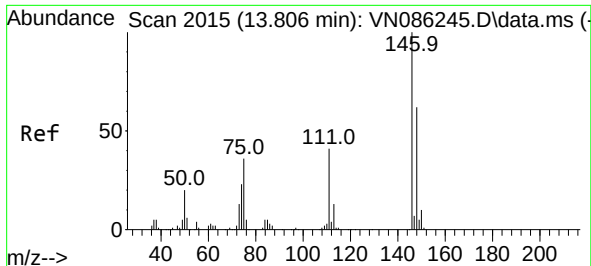
Tgt Ion:119 Resp: 38146
Ion Ratio Lower Upper
119 100
134 26.6 0.0 51.6
91 24.5 0.0 48.2



#83
1,3-Dichlorobenzene
Concen: 4.818 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:146 Resp: 19501
Ion Ratio Lower Upper
146 100
111 45.8 21.7 65.1
148 64.0 32.3 96.8

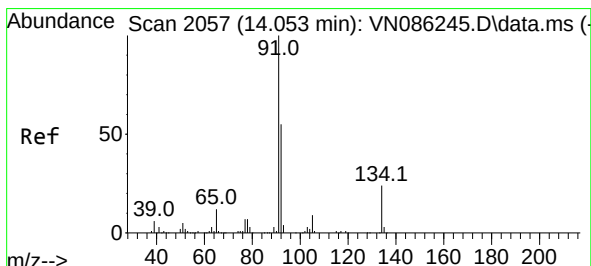
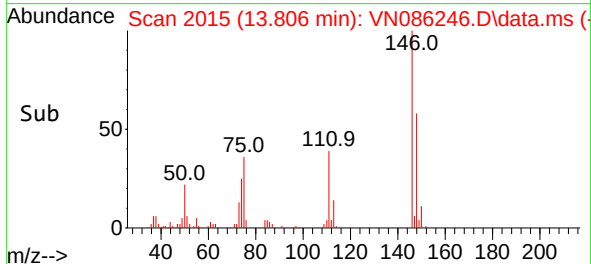
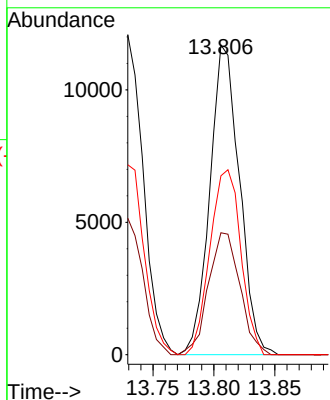
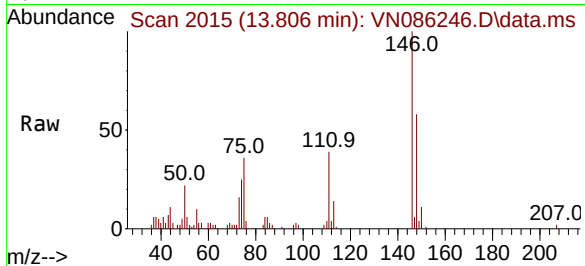




#84
1,4-Dichlorobenzene
Concen: 4.888 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

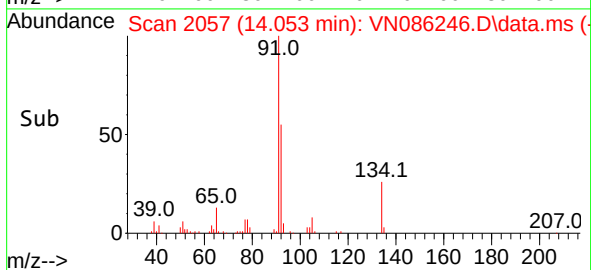
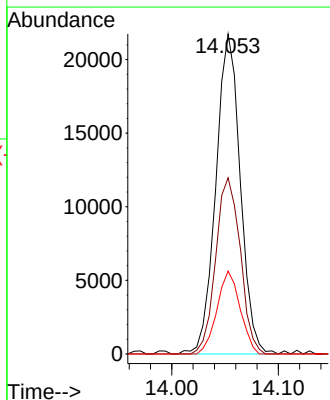
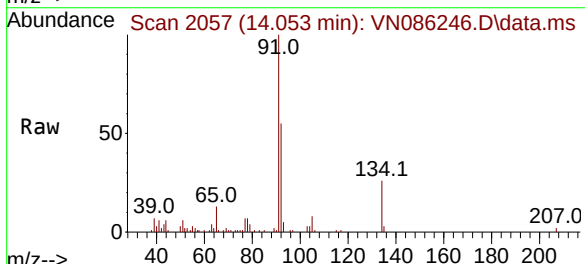
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

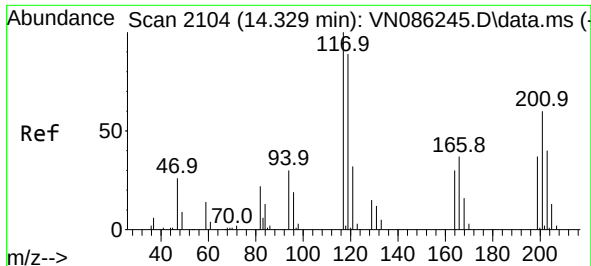
Tgt Ion:146 Resp: 19847
Ion Ratio Lower Upper
146 100
111 41.9 20.8 62.4
148 62.3 31.9 95.5



#85
n-Butylbenzene
Concen: 4.716 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 91 Resp: 34592
Ion Ratio Lower Upper
91 100
92 55.3 0.0 109.4
134 24.5 0.0 48.2

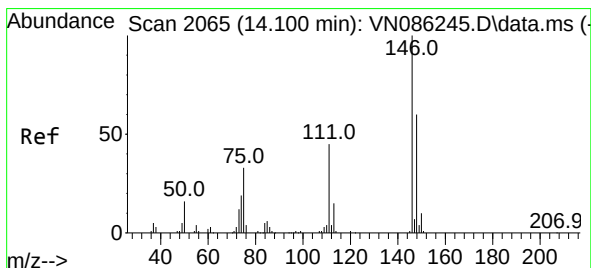
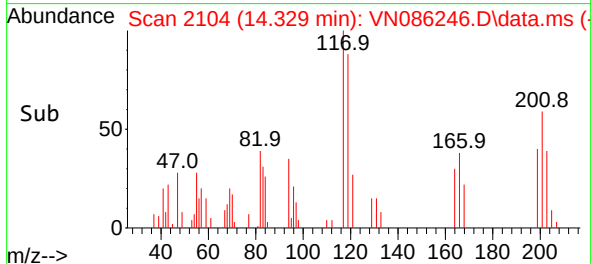
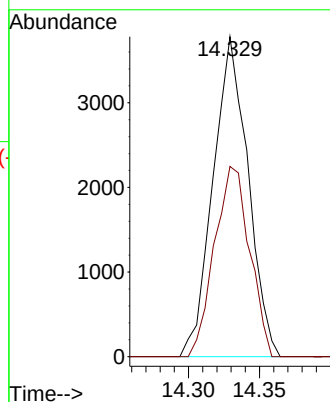
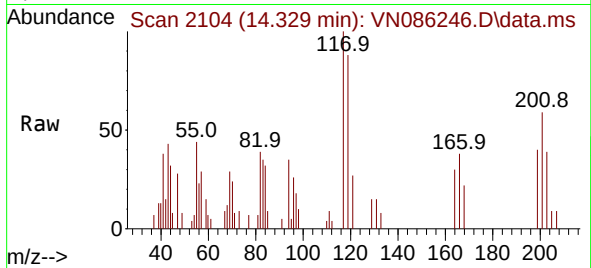




#86
Hexachloroethane
Concen: 4.714 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

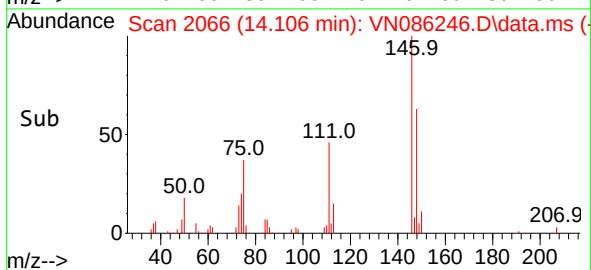
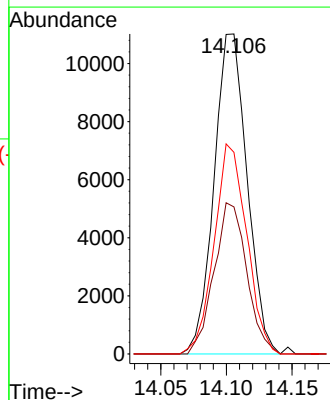
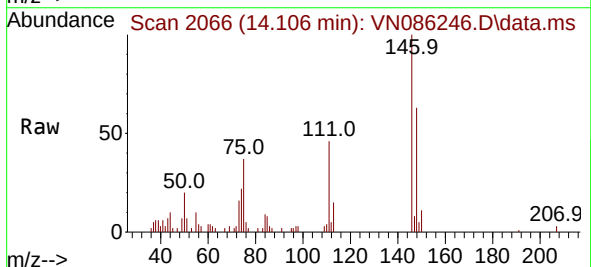
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

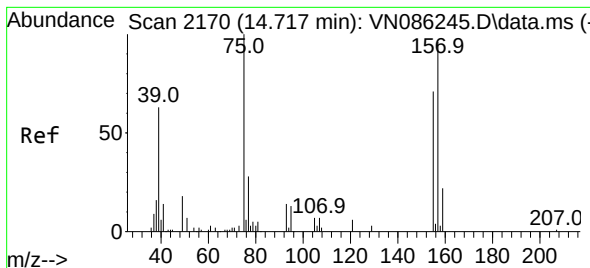
Tgt Ion:117 Resp: 6465
Ion Ratio Lower Upper
117 100
201 59.8 30.9 92.8



#87
1,2-Dichlorobenzene
Concen: 4.834 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:146 Resp: 19316
Ion Ratio Lower Upper
146 100
111 46.7 22.7 68.0
148 64.6 31.8 95.3

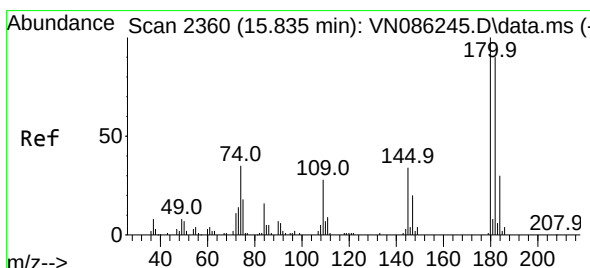
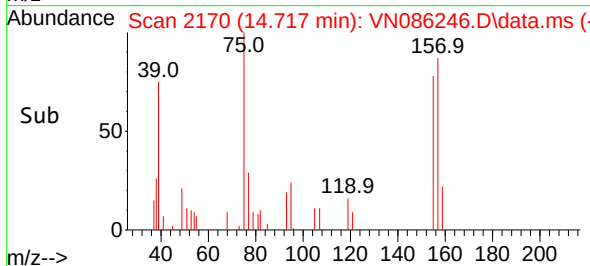
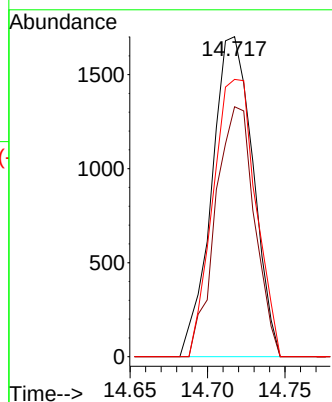
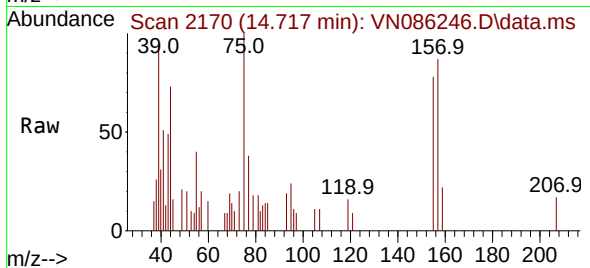




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 4.946 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

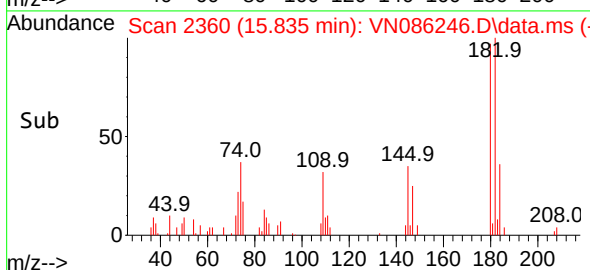
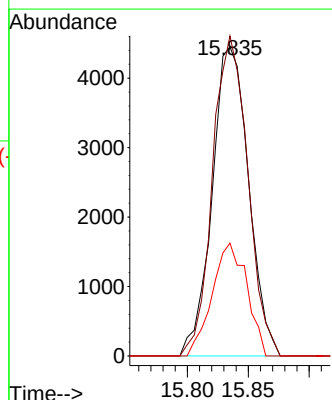
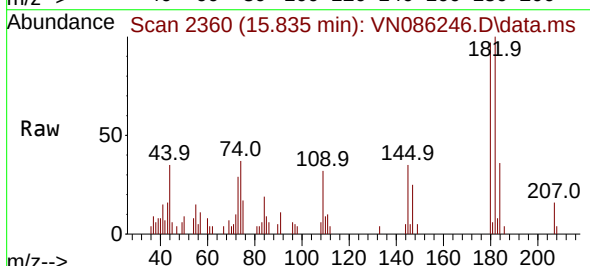
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

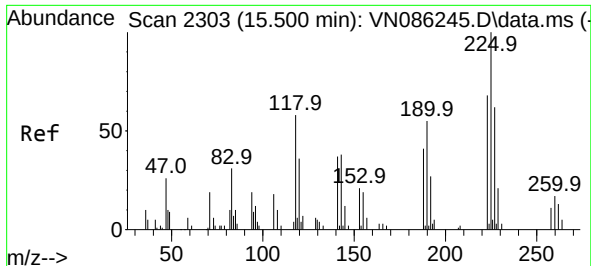
Tgt Ion: 75 Resp: 3152
 Ion Ratio Lower Upper
 75 100
 155 73.8 60.3 90.5
 157 89.7 79.0 118.4



#89
 1,2,4-Trichlorobenzene
 Concen: 4.778 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Tgt Ion: 180 Resp: 9291
 Ion Ratio Lower Upper
 180 100
 182 99.7 75.1 112.7
 145 34.6 27.1 40.7

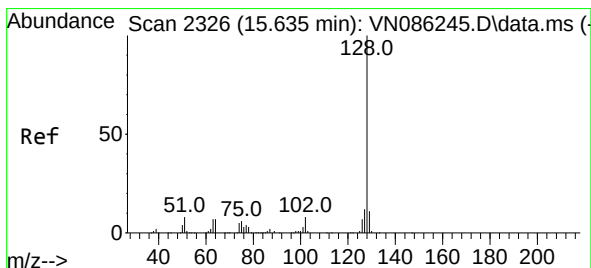
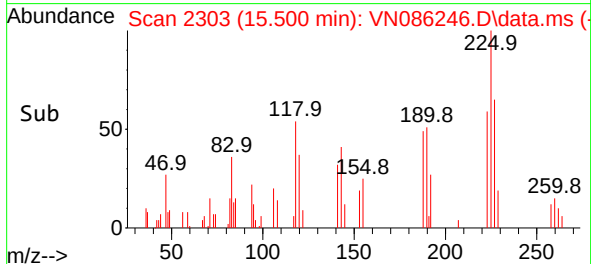
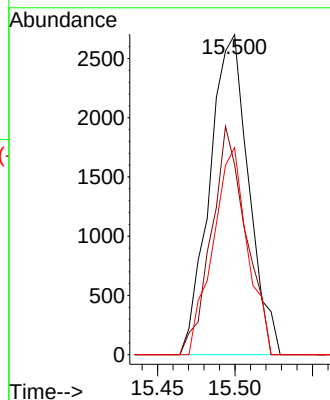
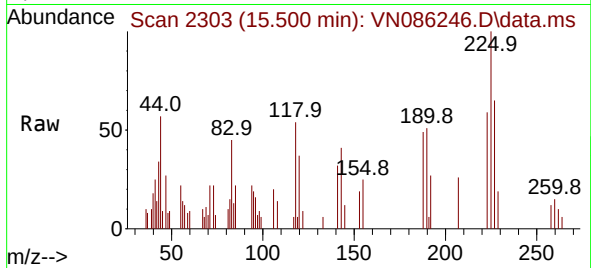




#90
Hexachlorobutadiene
Concen: 5.639 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

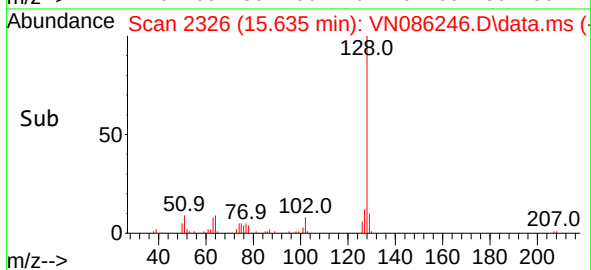
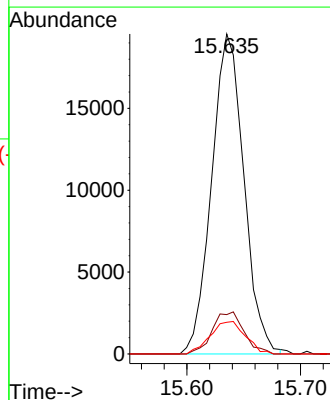
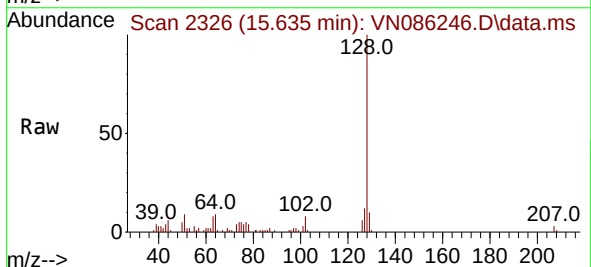
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

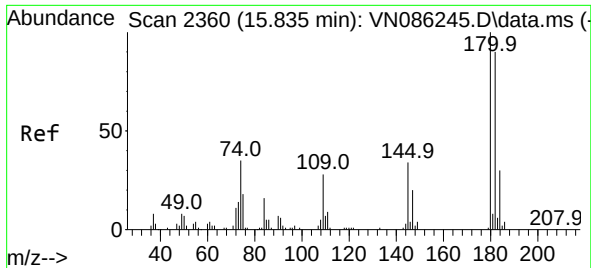
Tgt Ion:225 Resp: 4734
Ion Ratio Lower Upper
225 100
223 62.9 0.0 130.0
227 57.5 0.0 123.2



#91
Naphthalene
Concen: 5.026 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

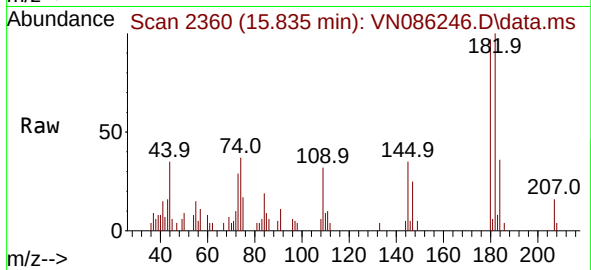
Tgt Ion:128 Resp: 38531
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.1 8.8 13.2



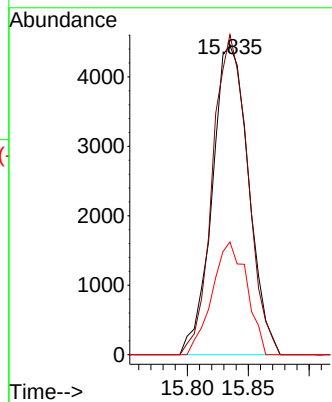
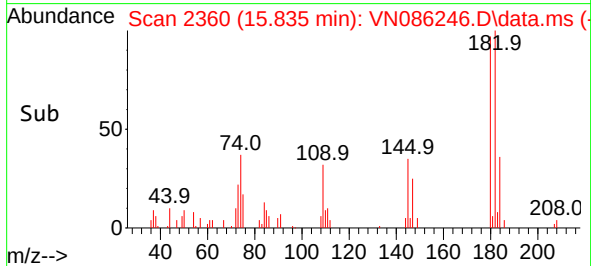


#92
 1,2,3-Trichlorobenzene
 Concen: 4.778 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086246.D
 Acq: 11 Apr 2025 12:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005



Tgt Ion:	180	Resp:	9291
Ion	Ratio	Lower	Upper
180	100		
182	99.7	0.0	187.8
145	34.6	0.0	67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31045	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	187987	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	165721	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90166	29.777	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.267%
60) 4-Bromofluorobenzene	12.847	95	97275	29.482	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.267%
63) Toluene-d8	10.565	98	279650	29.890	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.633%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53635	21.563	ug/l	100
3) Chloromethane	2.359	50	69535	20.226	ug/l	100
4) Vinyl Chloride	2.518	62	66222	20.223	ug/l	99
5) Bromomethane	2.965	94	32967	20.183	ug/l	98
6) Chloroethane	3.124	64	42684	20.642	ug/l	99
7) Trichlorofluoromethane	3.501	101	72724	20.473	ug/l	99
8) Diethyl Ether	3.959	74	33215	20.276	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	43944	20.062	ug/l	99
10) 1,1-Dichloroethene	4.348	96	47582	20.128	ug/l	99
11) Methyl Iodide	4.589	142	54740	20.148	ug/l	97
12) Methyl Acetate	5.024	43	64185	19.227	ug/l	98
13) Acrolein	4.177	56	33914	89.375	ug/l	98
14) Acrylonitrile	5.718	53	135274	95.988	ug/l	97
15) Acetone	4.424	58	33542	93.868	ug/l	92
16) Carbon Disulfide	4.712	76	138661	20.456	ug/l	100
17) Allyl chloride	5.024	41	85704	20.801	ug/l	98
18) Methylene Chloride	5.277	84	54353	20.166	ug/l	99
19) trans-1,2-Dichloroethene	5.789	96	48899	19.638	ug/l	96
20) Diisopropyl ether	6.665	45	183254	20.688	ug/l	99
21) 1,1-Dichloroethane	6.565	63	97247	20.578	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	59840	20.174	ug/l	98
23) tert-Butyl Alcohol	5.512	59	56480	96.723	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	172426	20.211	ug/l	98
25) Chloroform	7.965	83	93183	20.677	ug/l	100
26) Cyclohexane	8.253	56	88041	19.913	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	68608	20.373	ug/l	99
30) 2-Butanone	7.483	43	184728	98.995	ug/l	99
31) 2,2-Dichloropropane	7.489	77	87512	21.111	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	77645	20.044	ug/l	100
33) Carbon Tetrachloride	8.359	117	63029	20.360	ug/l	99
34) Benzene	8.600	78	219862	20.522	ug/l #	95
35) Methacrylonitrile	7.777	41	41577	19.764	ug/l	99
36) 1,2-Dichloroethane	8.671	62	68362	20.391	ug/l	100
37) Trichloroethene	9.353	130	51292	19.842	ug/l	94
38) Methylcyclohexane	9.594	83	83168	20.137	ug/l	98
39) 1,2-Dichloropropane	9.618	63	55116	20.675	ug/l	97
40) Dibromomethane	9.706	93	33887	19.681	ug/l	98
41) Bromodichloromethane	9.882	83	75048	20.289	ug/l	99
42) Vinyl Acetate	6.600	43	657878	103.572	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

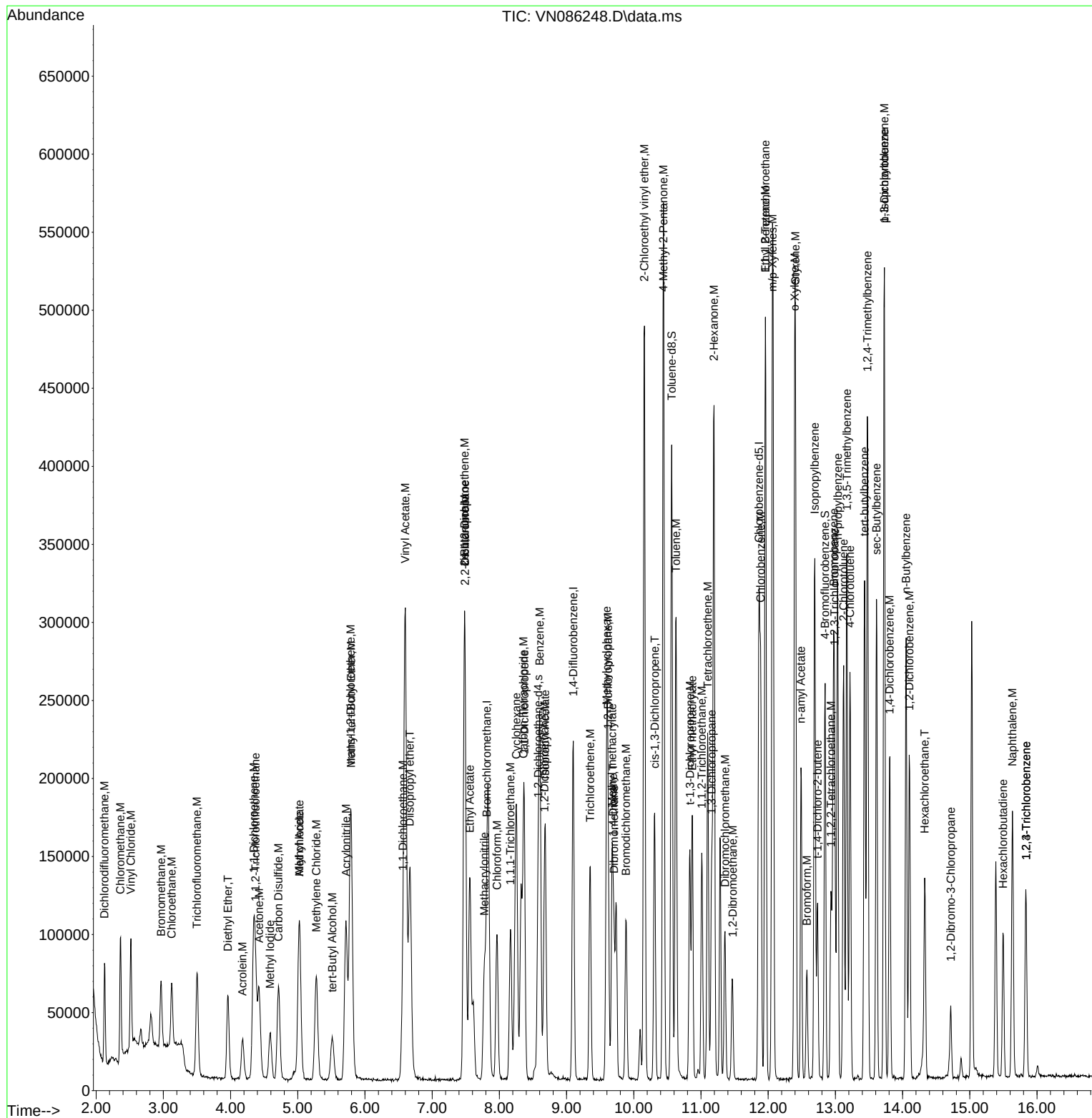
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	75482	20.054	ug/l	98
44) Isopropyl Acetate	8.683	43	141640	20.285	ug/l	99
45) 1,4-Dioxane	9.694	88	20541	369.952	ug/l #	92
46) Methyl methacrylate	9.677	41	61396	19.956	ug/l	97
47) n-amyl Acetate	12.488	43	108446	19.589	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	84428	20.190	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	91089	20.581	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47672	19.741	ug/l	97
51) Ethyl methacrylate	10.871	69	90916	20.259	ug/l	95
52) 1,3-Dichloropropane	11.159	76	87015	20.216	ug/l	100
53) Dibromochloromethane	11.359	129	52628	19.923	ug/l	97
54) 1,2-Dibromoethane	11.471	107	48175	19.762	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	225521	132.990	ug/l	100
56) Bromoform	12.576	173	33456	19.359	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	381072	101.329	ug/l	100
59) 2-Hexanone	11.194	43	284098	101.451	ug/l	99
61) Tetrachloroethene	11.100	164	49360	20.169	ug/l	96
62) Toluene	10.630	91	228625	20.568	ug/l	100
64) Chlorobenzene	11.888	112	138700	20.424	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	46048	20.546	ug/l	99
66) Ethyl Benzene	11.959	91	250686	20.336	ug/l	98
67) m/p-Xylenes	12.065	106	186247	40.633	ug/l	100
68) o-Xylene	12.394	106	92550	20.528	ug/l	98
69) Styrene	12.406	104	154208	20.281	ug/l	99
70) Isopropylbenzene	12.694	105	225389	20.275	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	64915	20.516	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	95136	28.885	ug/l	59
73) Bromobenzene	12.976	156	48932	19.870	ug/l	99
74) n-propylbenzene	13.035	91	265507	20.227	ug/l	100
75) 2-Chlorotoluene	13.123	91	164538	19.943	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	185869	20.354	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	29750	19.590	ug/l	93
78) 4-Chlorotoluene	13.218	91	160908	19.528	ug/l	99
79) tert-butylbenzene	13.435	119	158200	20.021	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	185022	19.981	ug/l	99
81) sec-Butylbenzene	13.612	105	222043	20.145	ug/l	99
82) p-Isopropyltoluene	13.729	119	183515	19.959	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	87179	19.047	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	86888	18.923	ug/l	99
85) n-Butylbenzene	14.053	91	164471	19.828	ug/l	99
86) Hexachloroethane	14.329	117	29849	19.245	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	84631	18.727	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13051	18.109	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98
90) Hexachlorobutadiene	15.494	225	16389	17.262	ug/l	99
91) Naphthalene	15.635	128	157404	18.155	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98

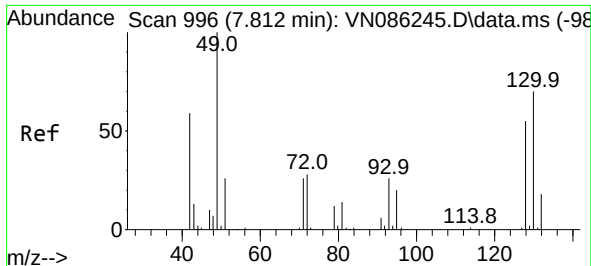
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

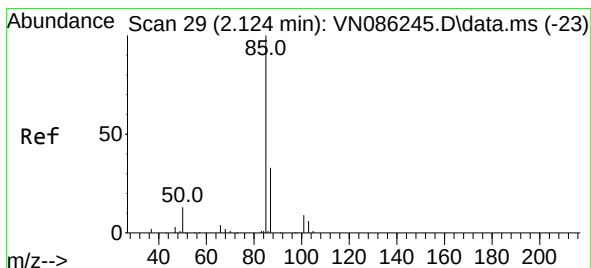
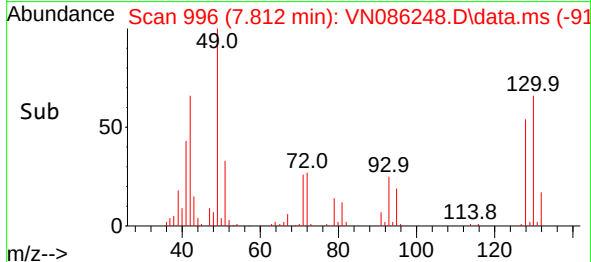
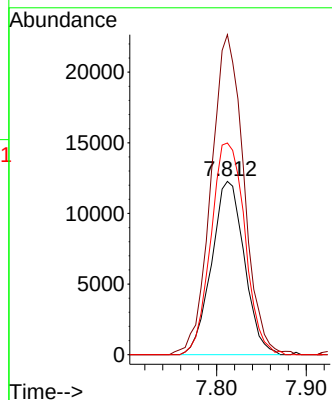
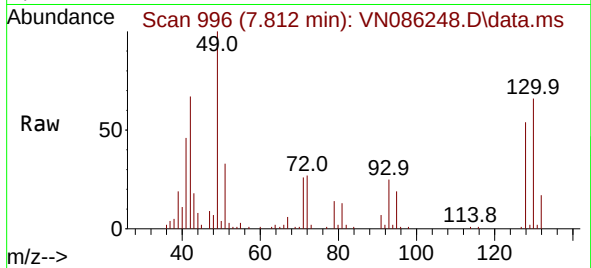




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

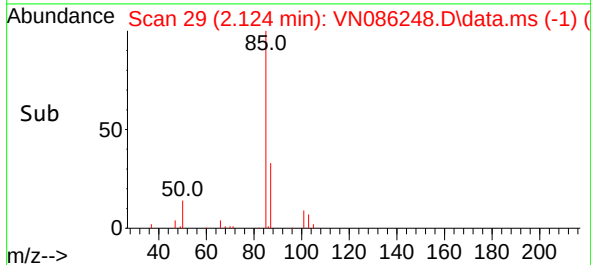
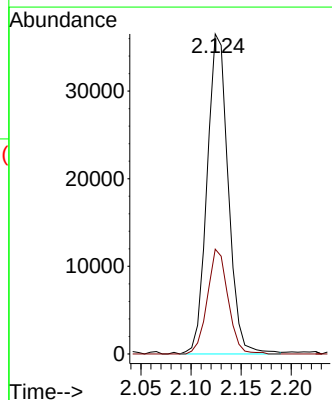
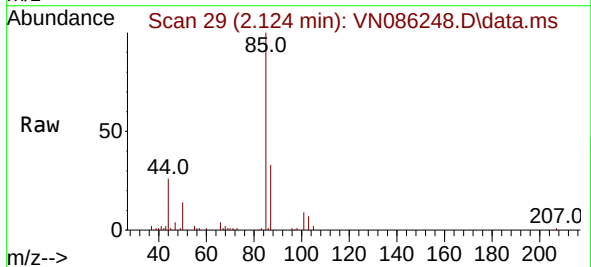
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

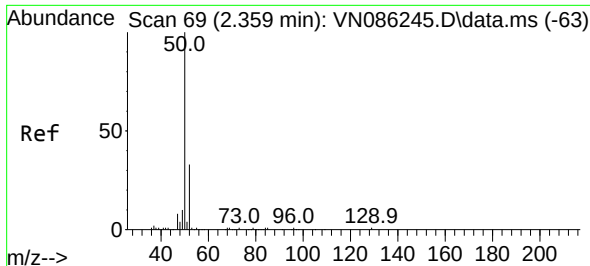
Tgt Ion:128 Resp: 31045
Ion Ratio Lower Upper
128 100
49 184.6 0.0 452.5
130 126.9 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 21.563 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 85 Resp: 53635
Ion Ratio Lower Upper
85 100
87 32.7 16.3 48.9

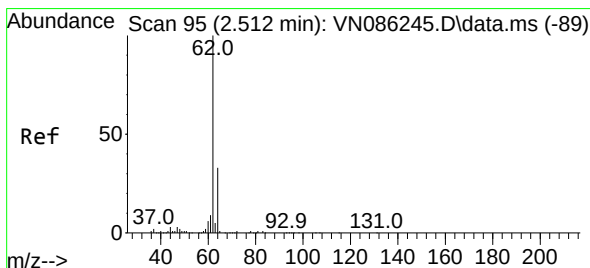
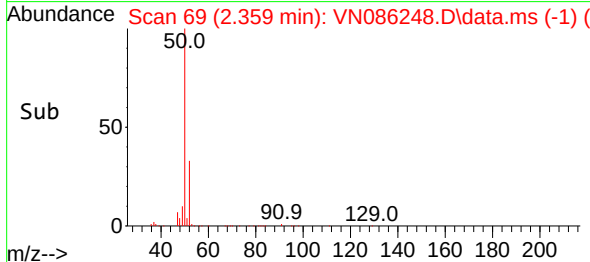
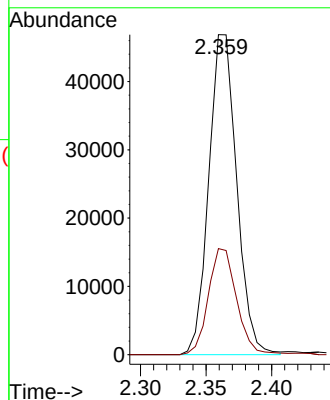
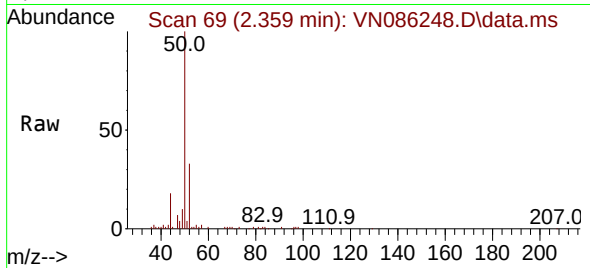




#3
Chloromethane
Concen: 20.226 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

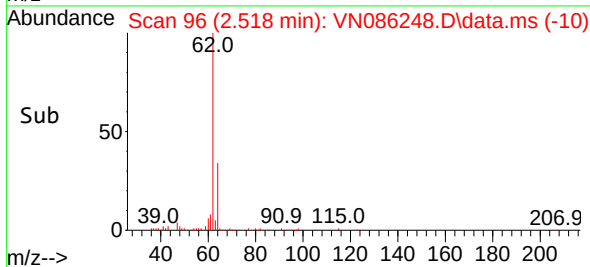
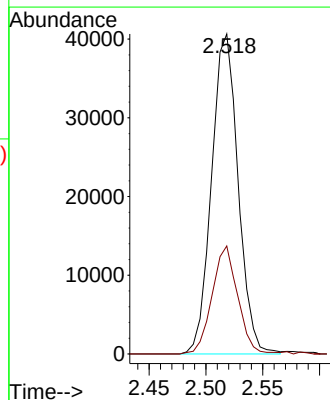
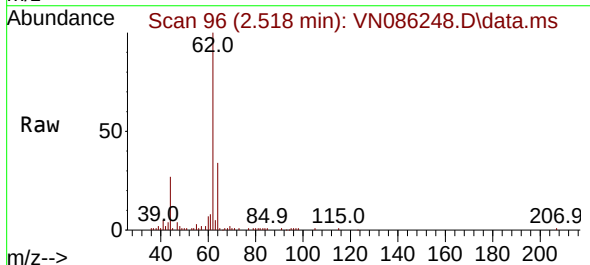
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

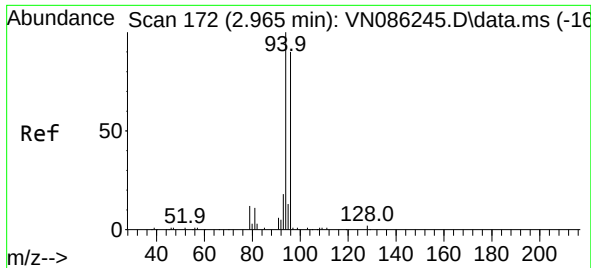
Tgt Ion: 50 Resp: 69535
Ion Ratio Lower Upper
50 100
52 33.2 26.4 39.6



#4
Vinyl Chloride
Concen: 20.223 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 62 Resp: 66222
Ion Ratio Lower Upper
62 100
64 33.7 26.3 39.5

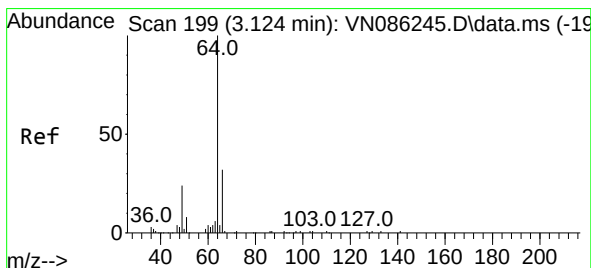
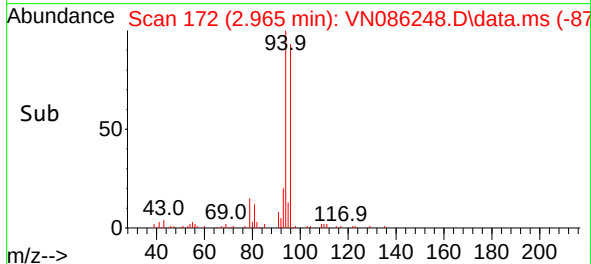
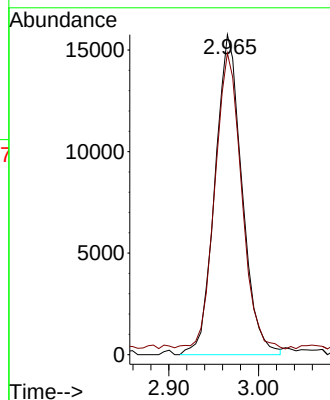
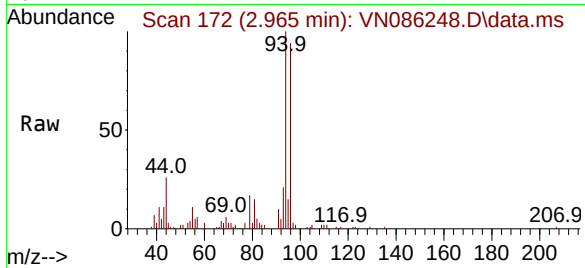




#5
Bromomethane
Concen: 20.183 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

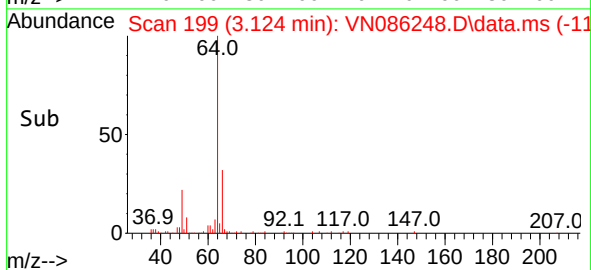
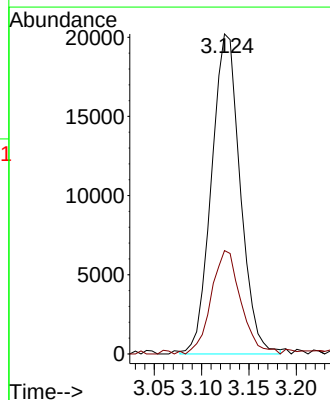
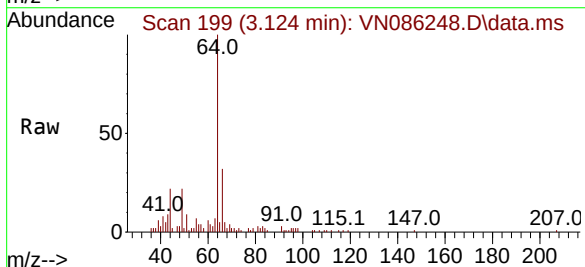
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

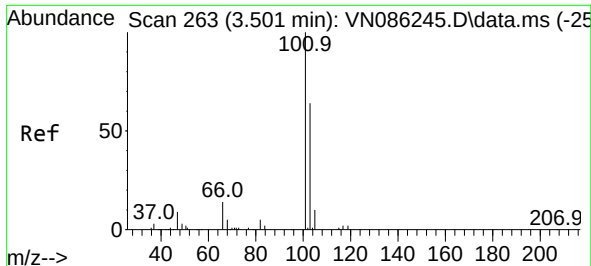
Tgt Ion: 94 Resp: 32967
Ion Ratio Lower Upper
94 100
96 91.9 72.2 108.2



#6
Chloroethane
Concen: 20.642 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 64 Resp: 42684
Ion Ratio Lower Upper
64 100
66 32.6 25.7 38.5

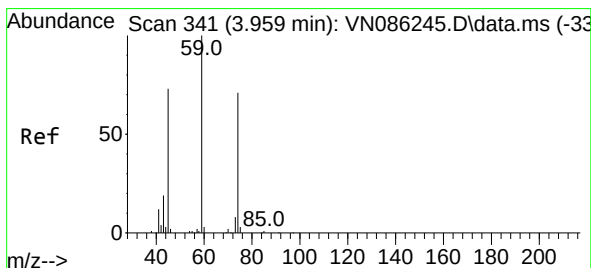
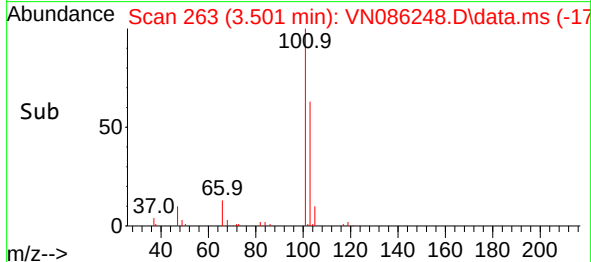
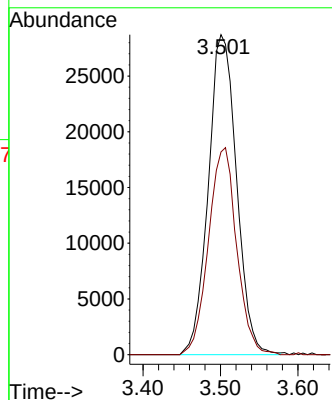
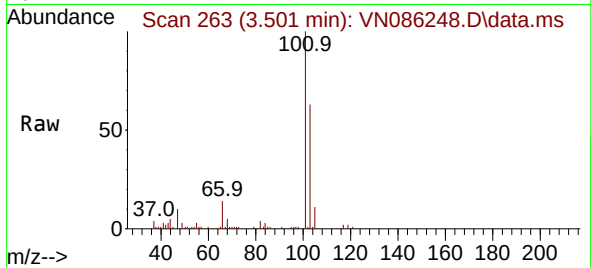




#7
 Trichlorofluoromethane
 Concen: 20.473 ug/l
 RT: 3.501 min Scan# 263
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

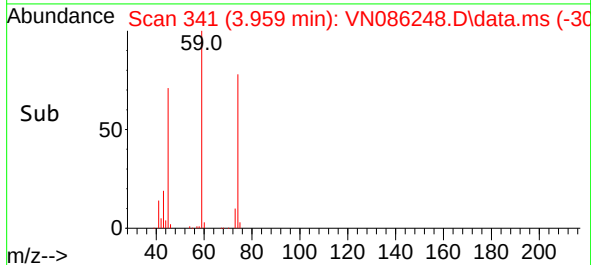
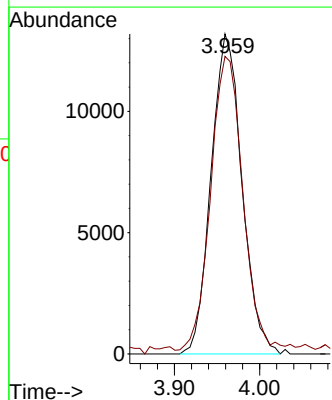
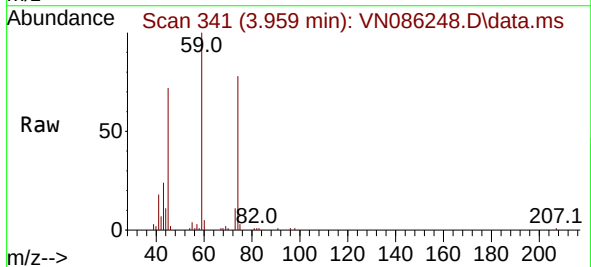
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

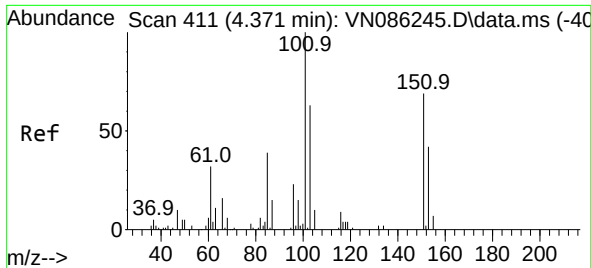
Tgt Ion:101 Resp: 72724
 Ion Ratio Lower Upper
 101 100
 103 63.4 51.2 76.8



#8
 Diethyl Ether
 Concen: 20.276 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion: 74 Resp: 33215
 Ion Ratio Lower Upper
 74 100
 45 96.4 19.2 173.2

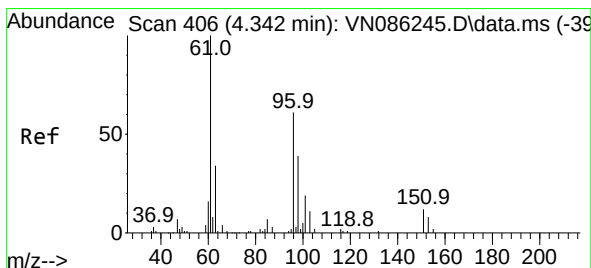
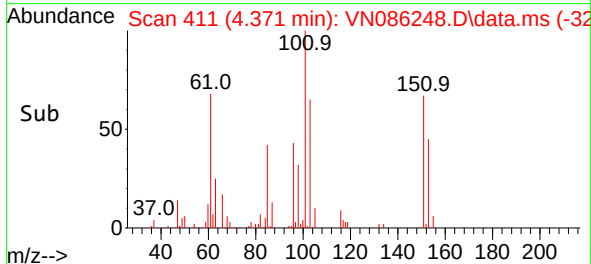
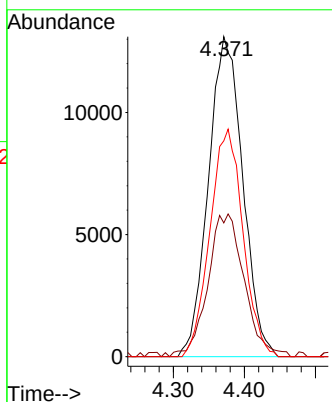
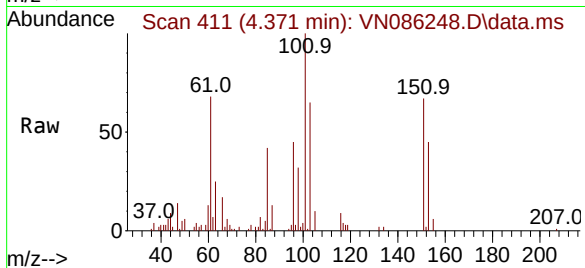




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.062 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

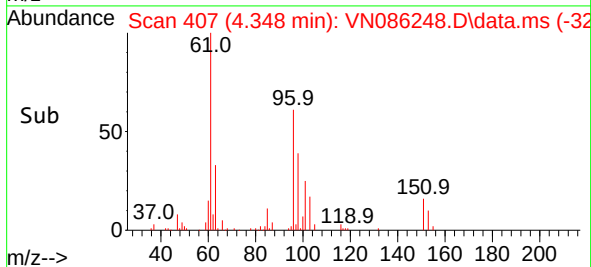
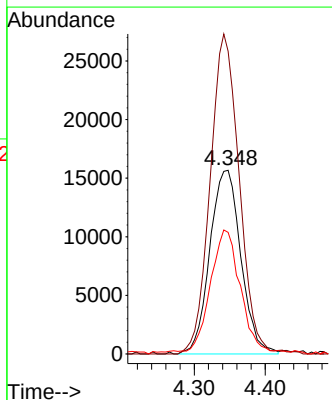
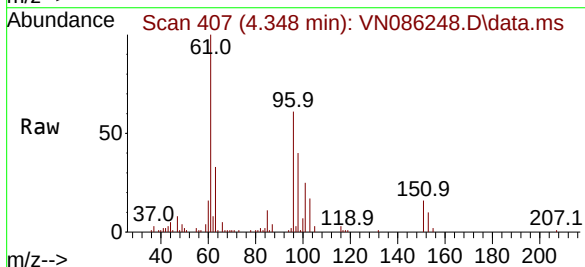
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

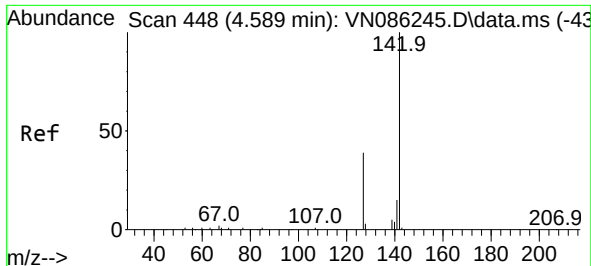
Tgt Ion:	101	Resp:	43944
Ion	Ratio	Lower	Upper
101	100		
85	46.6	0.0	93.0
151	68.6	0.0	138.6



#10
 1,1-Dichloroethene
 Concen: 20.128 ug/l
 RT: 4.348 min Scan# 407
 Delta R.T. 0.006 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion:	96	Resp:	47582
Ion	Ratio	Lower	Upper
96	100		
61	164.7	131.1	196.7
98	64.7	51.6	77.4

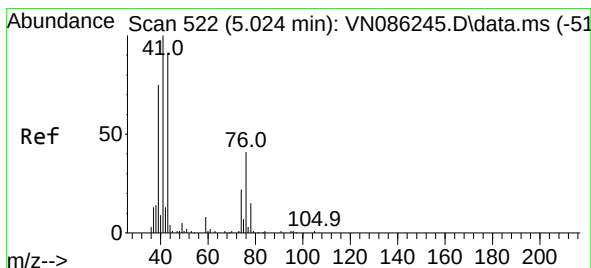
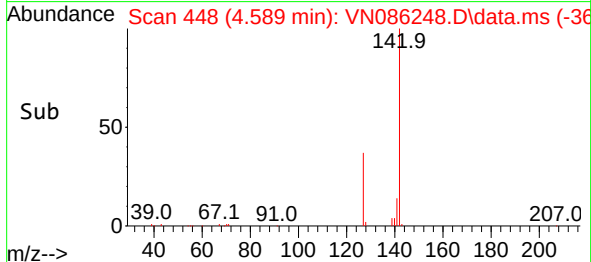
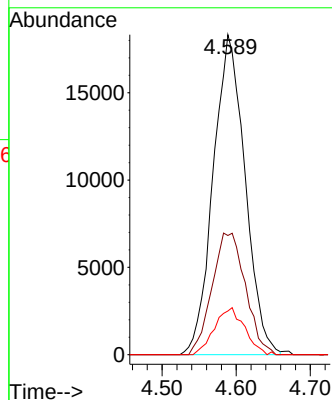
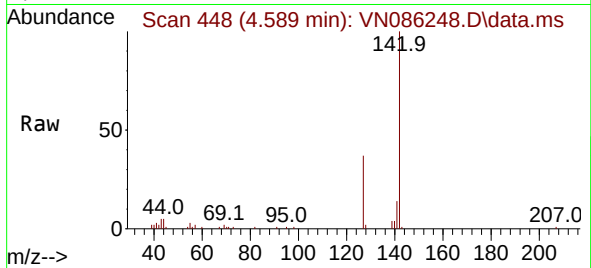




#11
Methyl Iodide
Concen: 20.148 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

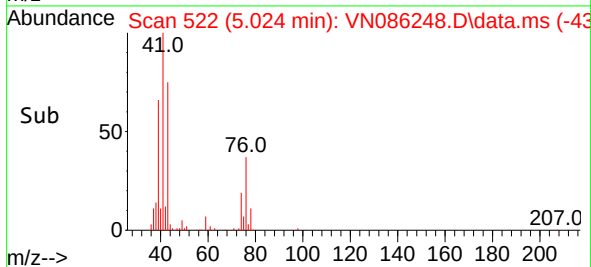
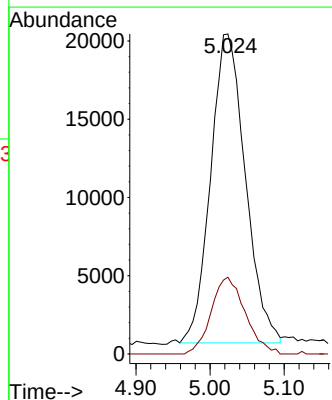
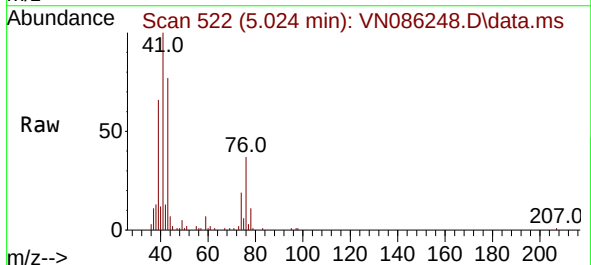
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

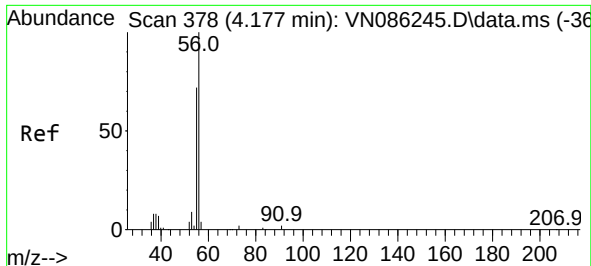
Tgt Ion:142 Resp: 54740
Ion Ratio Lower Upper
142 100
127 37.4 19.6 58.8
141 13.7 7.3 21.9



#12
Methyl Acetate
Concen: 19.227 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 64185
Ion Ratio Lower Upper
43 100
74 25.1 19.1 28.7





#13

Acrolein

Concen: 89.375 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

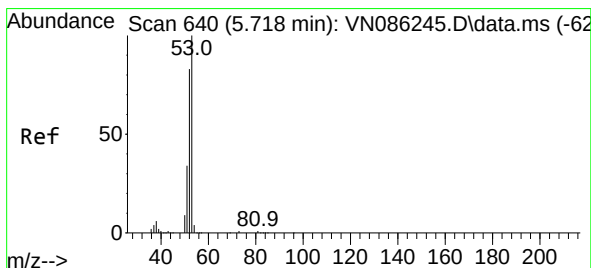
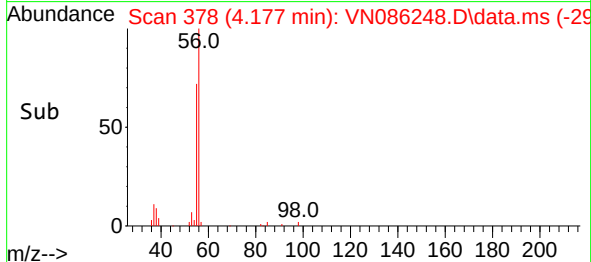
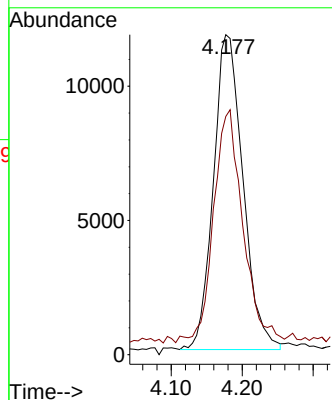
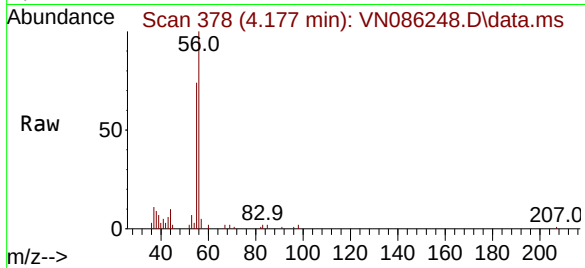
ICVVN041125

Tgt Ion: 56 Resp: 33914

Ion Ratio Lower Upper

56 100

55 71.9 56.5 84.7



#14

Acrylonitrile

Concen: 95.988 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

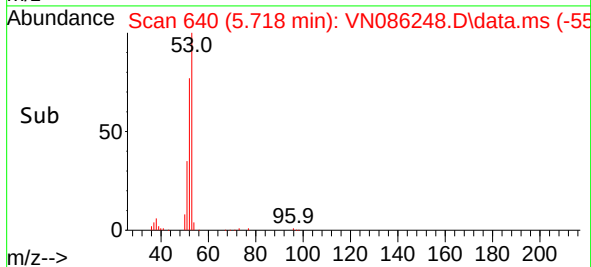
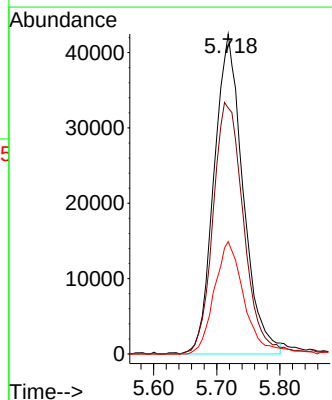
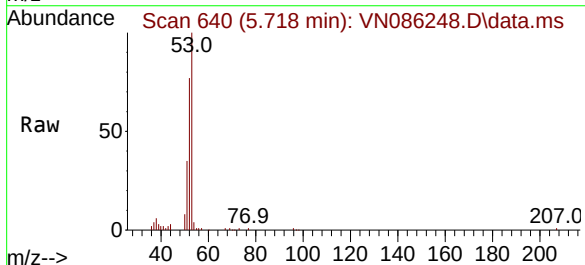
Tgt Ion: 53 Resp: 135274

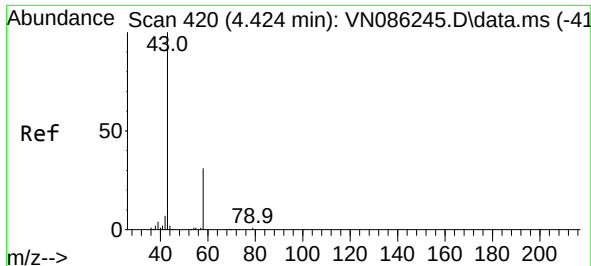
Ion Ratio Lower Upper

53 100

52 83.3 40.2 120.6

51 36.4 17.5 52.6





#15

Acetone

Concen: 93.868 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

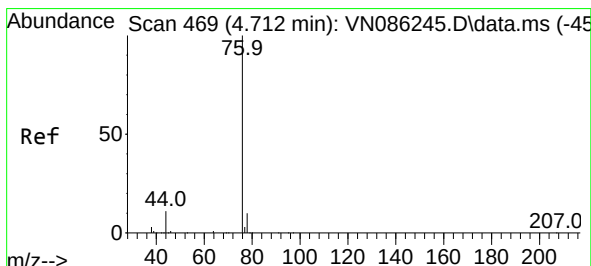
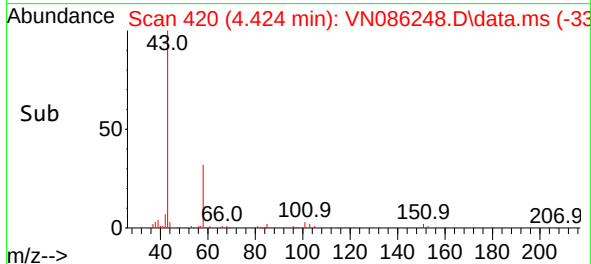
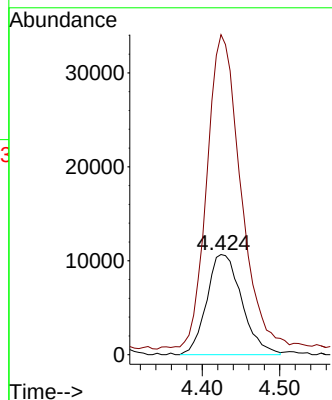
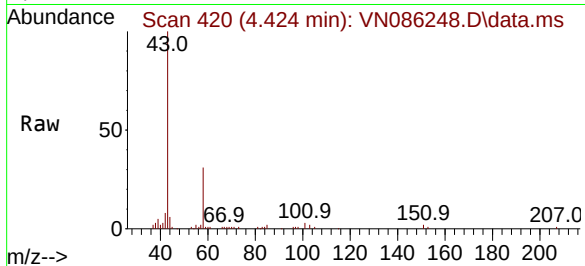
ICVVN041125

Tgt Ion: 58 Resp: 33542

Ion Ratio Lower Upper

58 100

43 311.7 261.8 392.8



#16

Carbon Disulfide

Concen: 20.456 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086248.D

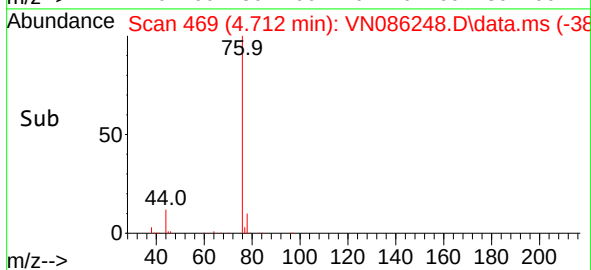
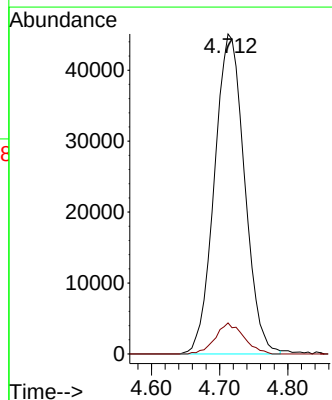
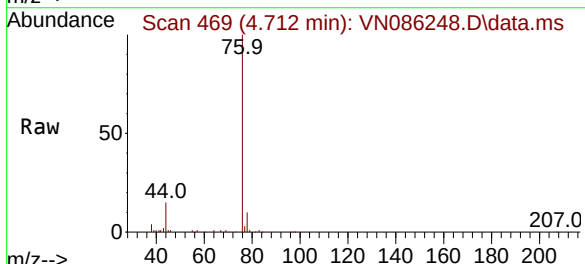
Acq: 11 Apr 2025 13:34

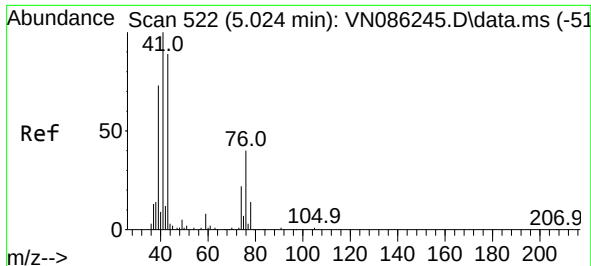
Tgt Ion: 76 Resp: 138661

Ion Ratio Lower Upper

76 100

78 9.7 7.7 11.5

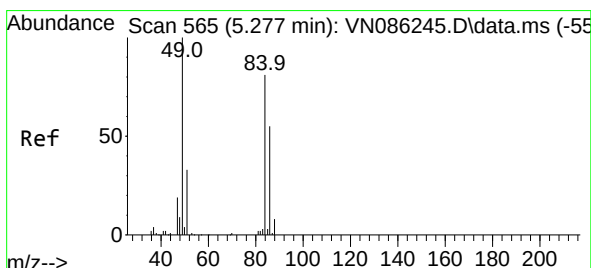
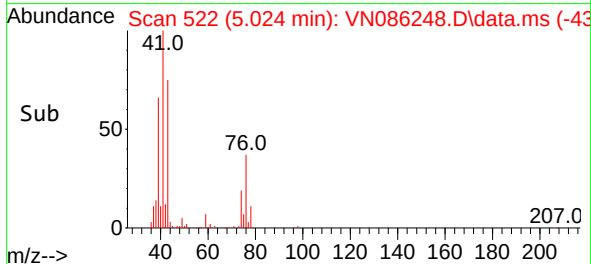
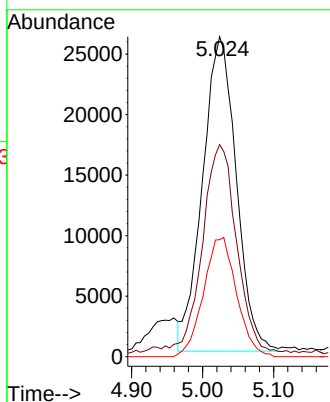
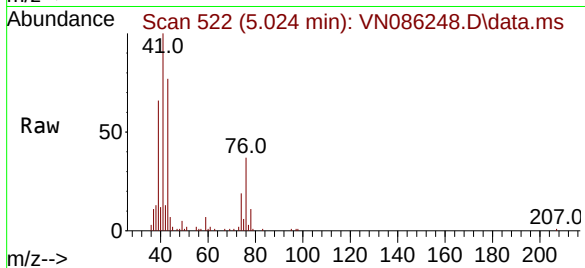




#17
 Allyl chloride
 Concen: 20.801 ug/l
 RT: 5.024 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

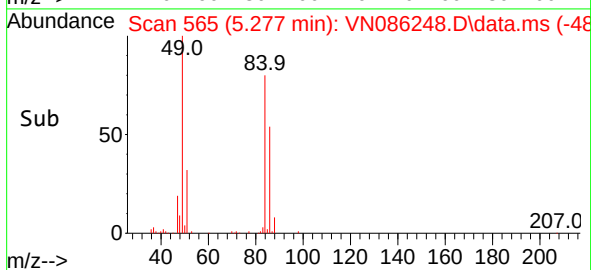
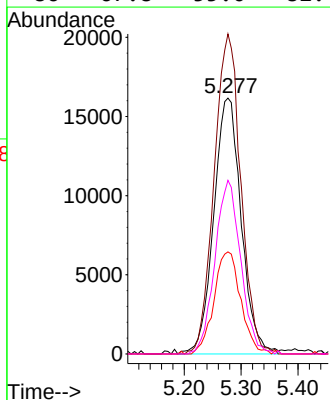
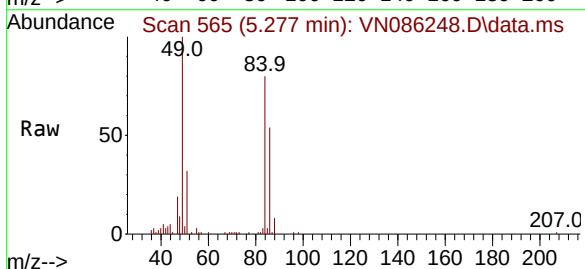
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

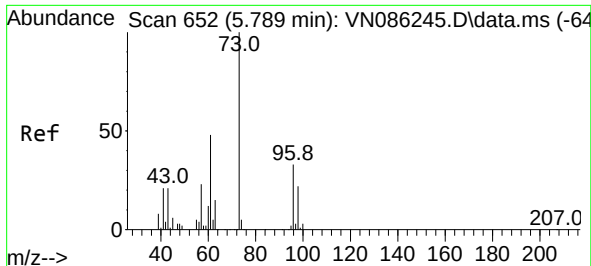
Tgt Ion:	41	Resp:	85704
Ion	Ratio	Lower	Upper
41	100		
39	66.3	34.4	103.2
76	37.5	18.8	56.3



#18
 Methylene Chloride
 Concen: 20.166 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion:	84	Resp:	54353
Ion	Ratio	Lower	Upper
84	100		
49	125.0	99.1	148.7
51	39.9	32.3	48.5
86	67.8	55.0	82.4

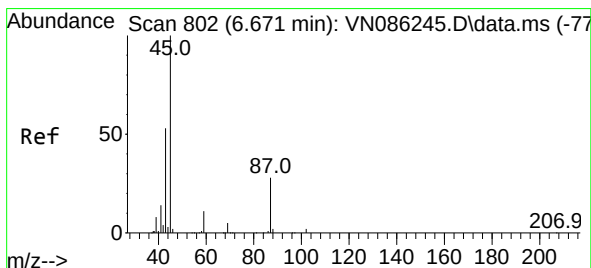
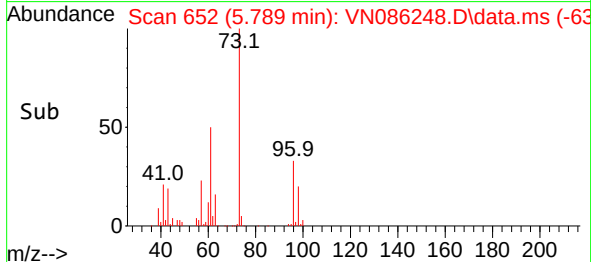
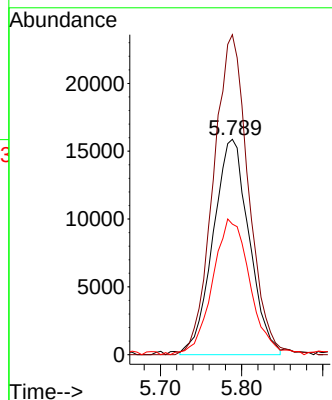
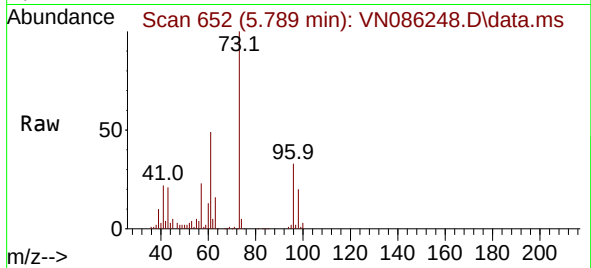




#19
trans-1,2-Dichloroethene
Concen: 19.638 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

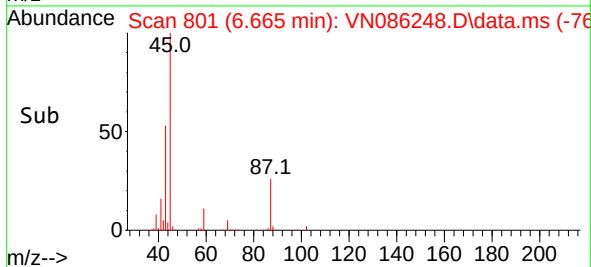
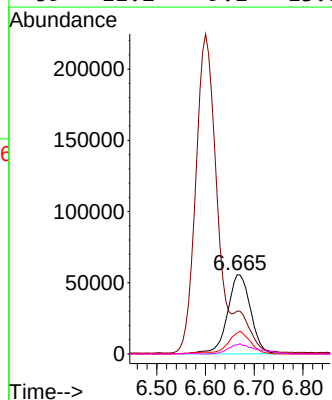
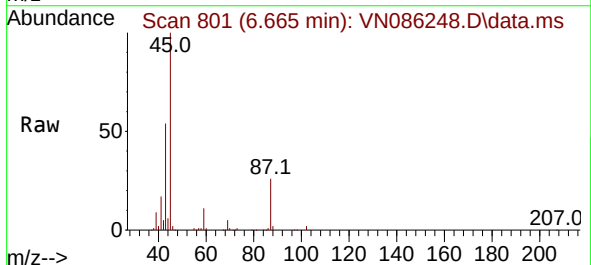
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

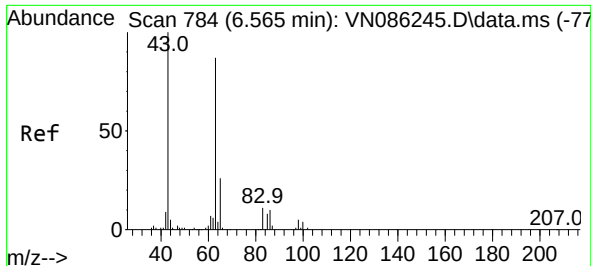
Tgt Ion: 96 Resp: 48899
Ion Ratio Lower Upper
96 100
61 149.0 115.9 173.9
98 60.0 52.1 78.1



#20
Diisopropyl ether
Concen: 20.688 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 45 Resp: 183254
Ion Ratio Lower Upper
45 100
43 52.3 42.3 63.5
87 26.5 22.2 33.4
59 11.2 9.1 13.7





#21

1,1-Dichloroethane

Concen: 20.578 ug/l

RT: 6.565 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

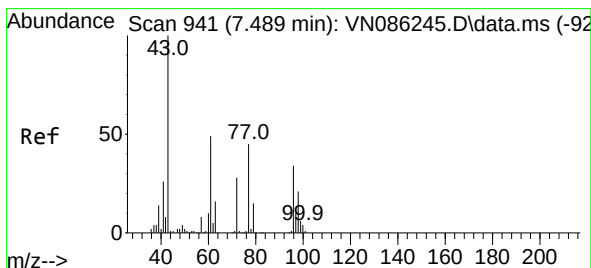
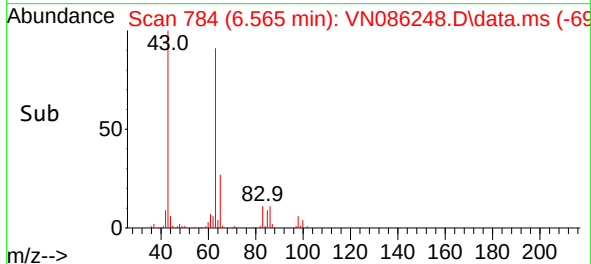
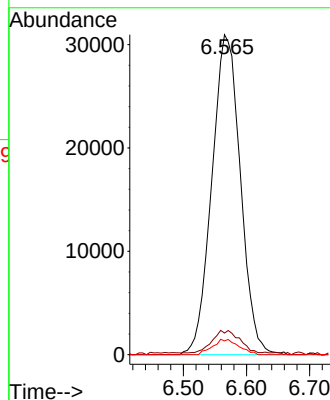
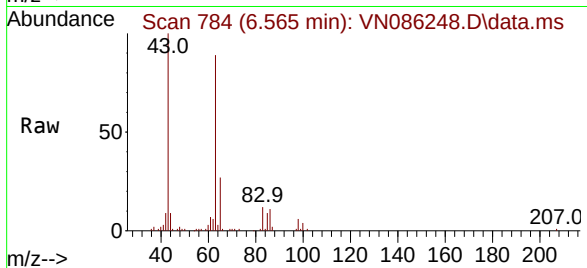
Tgt Ion: 63 Resp: 97247

Ion Ratio Lower Upper

63 100

98 6.2 3.1 9.3

100 4.3 2.3 6.9



#22

cis-1,2-Dichloroethene

Concen: 20.174 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

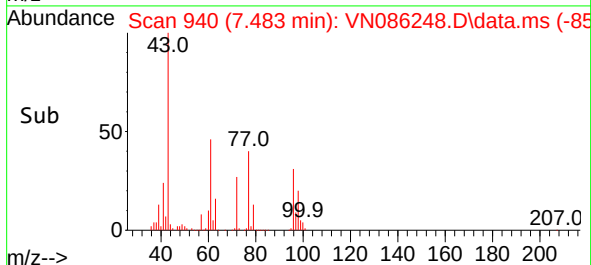
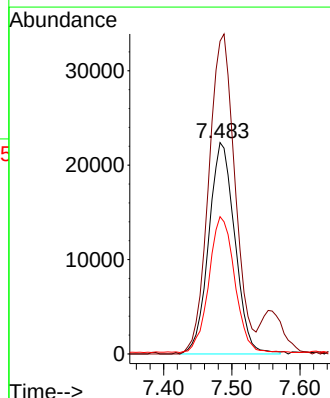
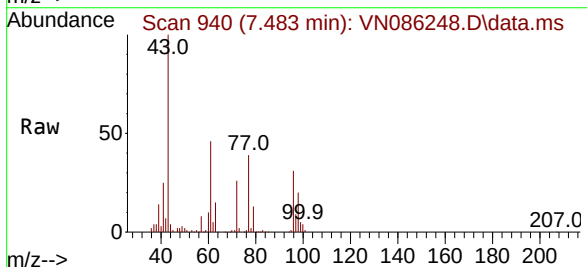
Tgt Ion: 96 Resp: 59840

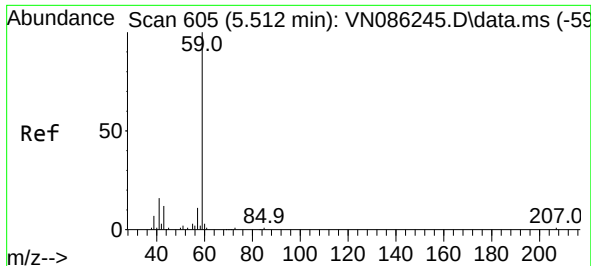
Ion Ratio Lower Upper

96 100

61 152.2 119.5 179.3

98 63.0 51.0 76.6

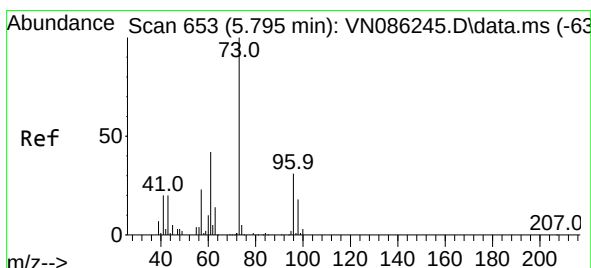
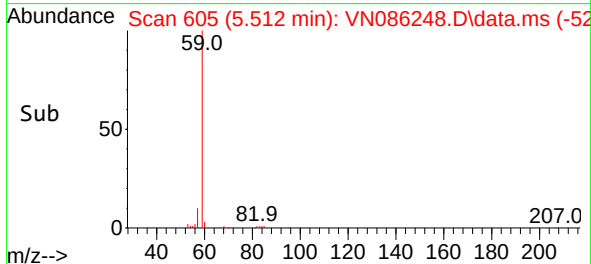
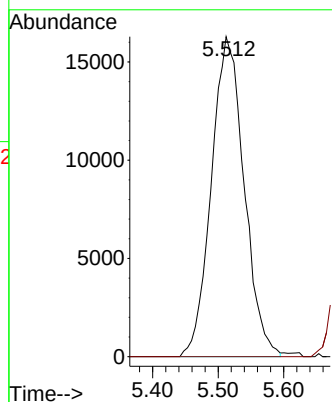
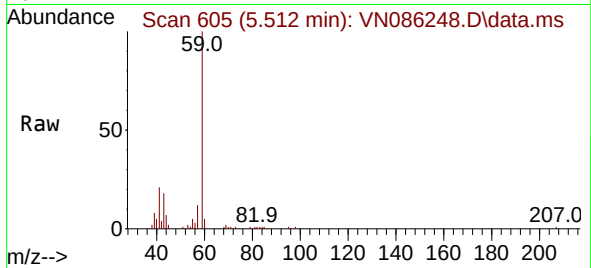




#23
tert-Butyl Alcohol
Concen: 96.723 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

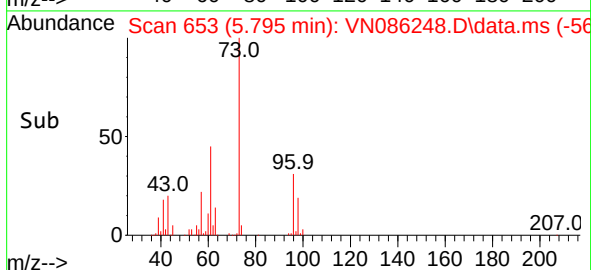
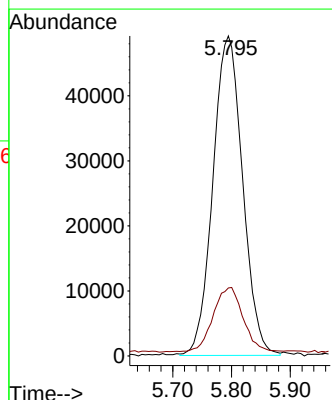
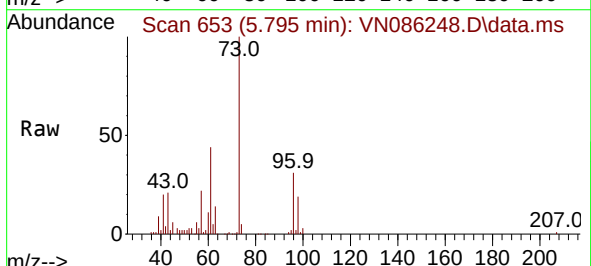
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

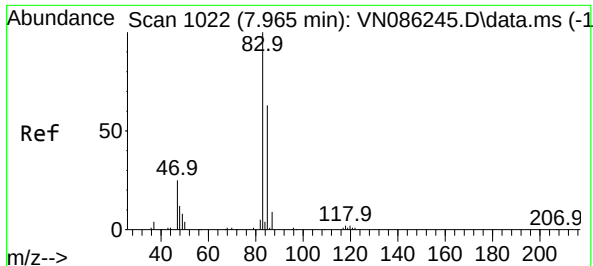
Tgt Ion: 59 Resp: 56480
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 20.211 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 73 Resp: 172426
Ion Ratio Lower Upper
73 100
43 20.2 16.8 25.2





#25

Chloroform

Concen: 20.677 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

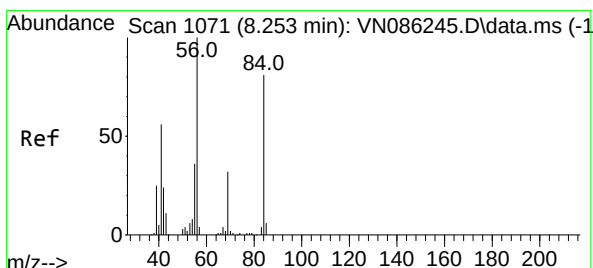
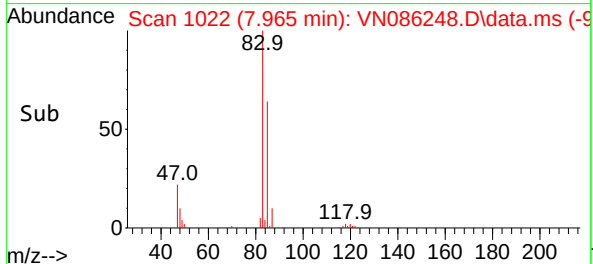
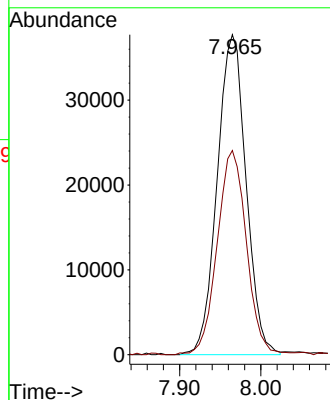
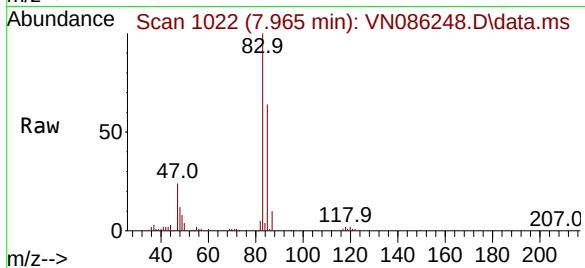
ICVVN041125

Tgt Ion: 83 Resp: 93183

Ion Ratio Lower Upper

83 100

85 63.3 50.5 75.7



#26

Cyclohexane

Concen: 19.913 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

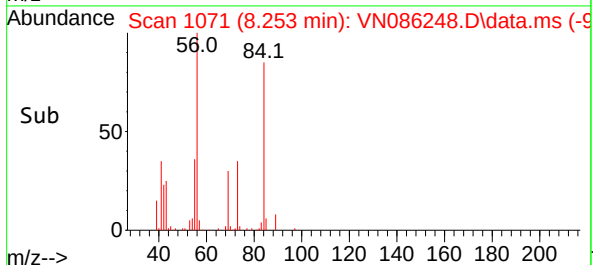
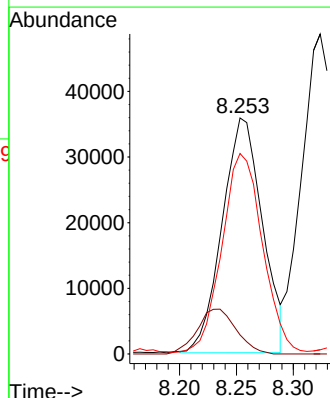
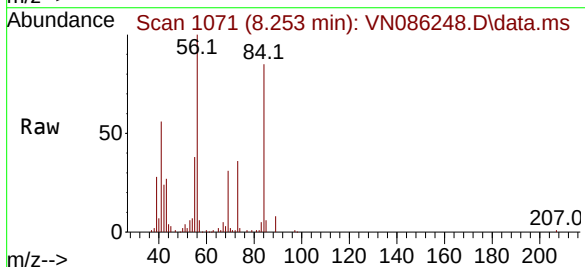
Tgt Ion: 56 Resp: 88041

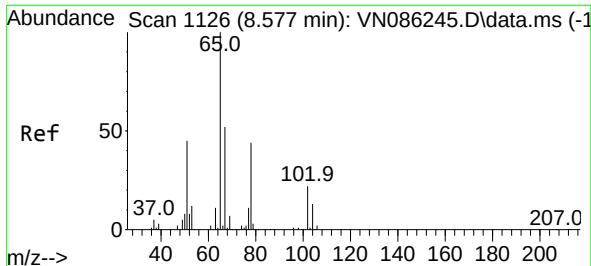
Ion Ratio Lower Upper

56 100

89 18.6 0.0 0.0#

84 86.2 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.777 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

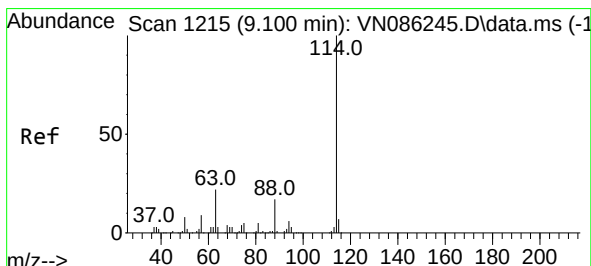
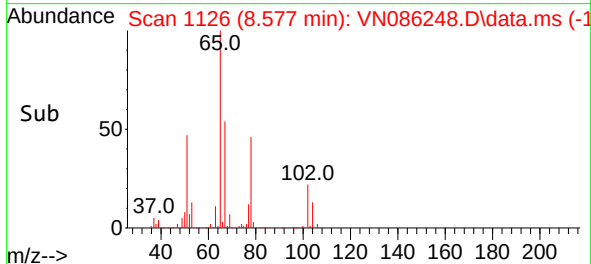
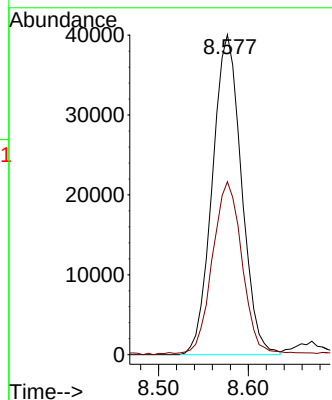
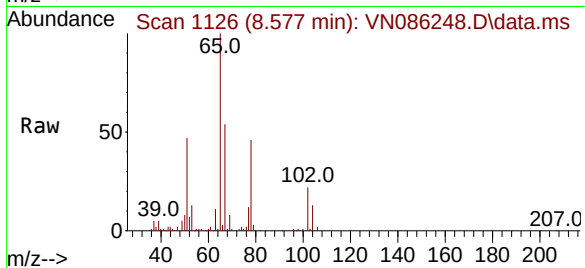
ICVVN041125

Tgt Ion: 65 Resp: 90166

Ion Ratio Lower Upper

65 100

67 54.6 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

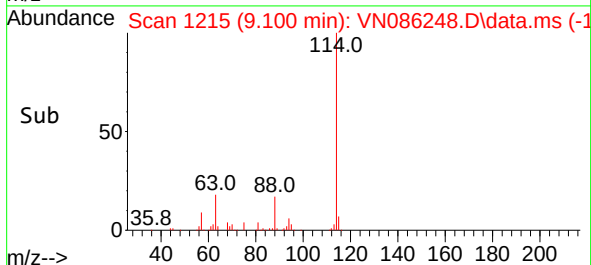
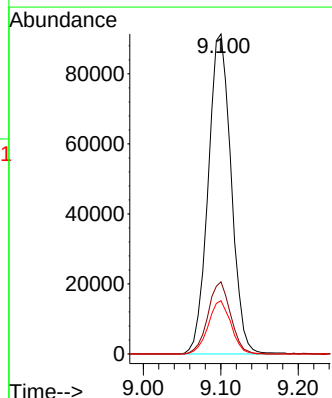
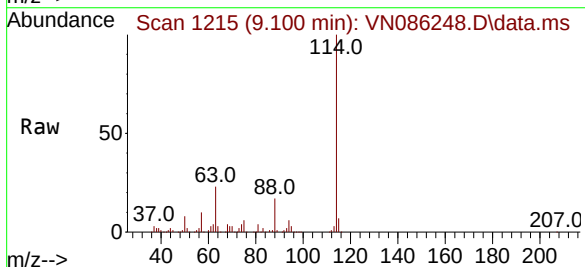
Tgt Ion: 114 Resp: 187987

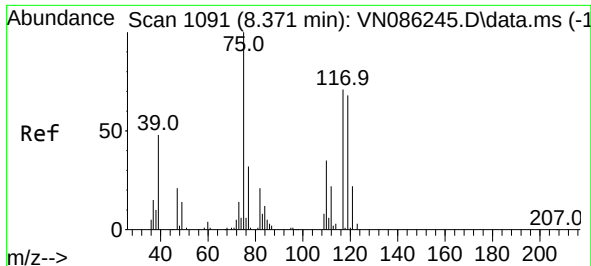
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

88 16.5 13.4 20.2

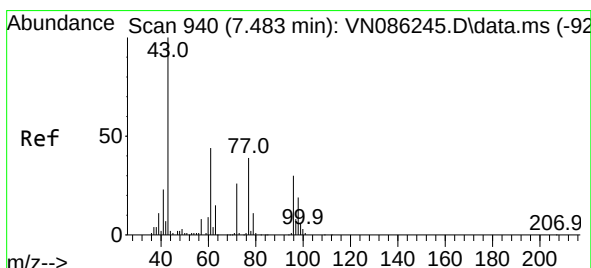
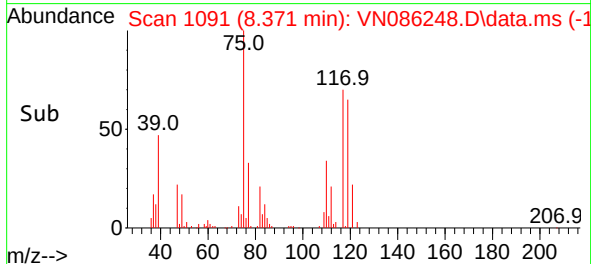
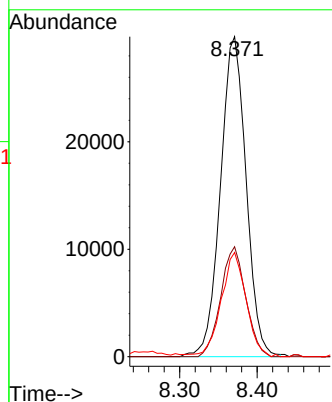
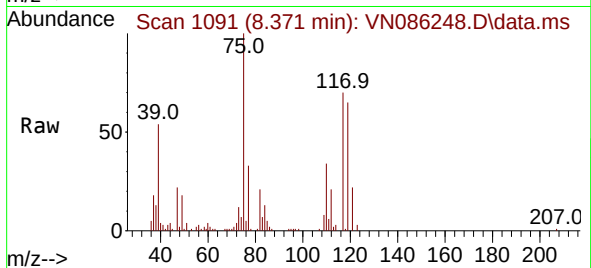




#29
1,1-Dichloropropene
Concen: 20.373 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

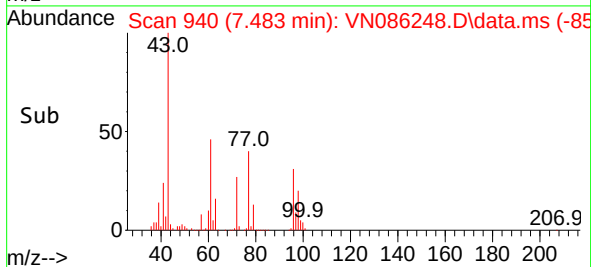
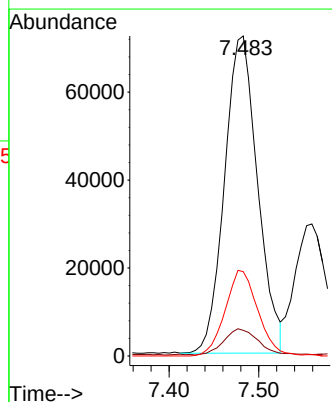
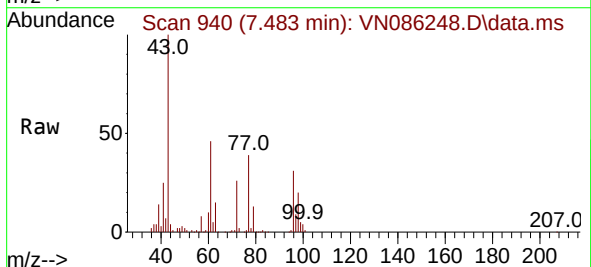
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

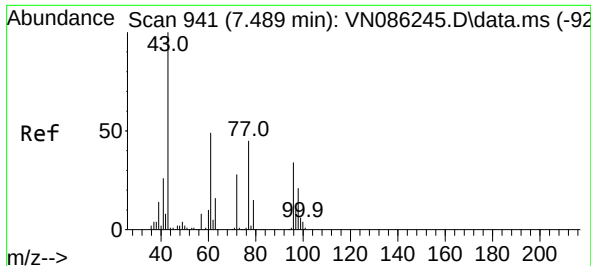
Tgt Ion: 75 Resp: 68608
Ion Ratio Lower Upper
75 100
110 33.4 0.0 68.6
77 31.4 0.0 63.8



#30
2-Butanone
Concen: 98.995 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 184728
Ion Ratio Lower Upper
43 100
57 8.6 6.4 9.6
72 26.7 21.5 32.3

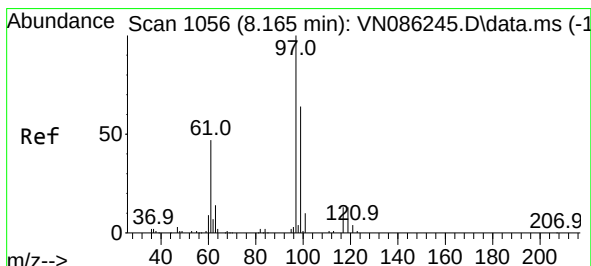
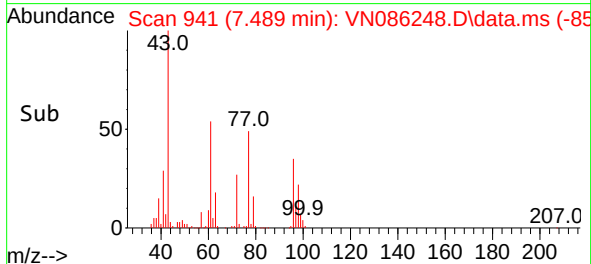
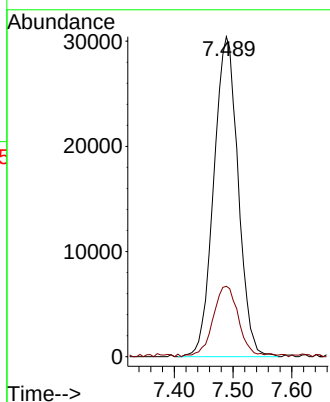
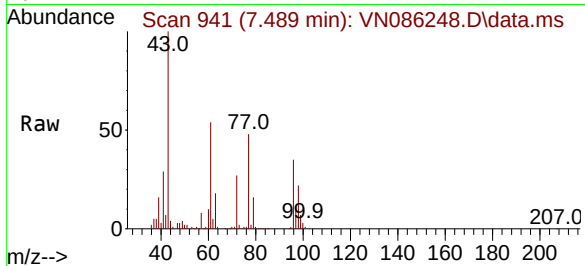




#31
2,2-Dichloropropane
Concen: 21.111 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

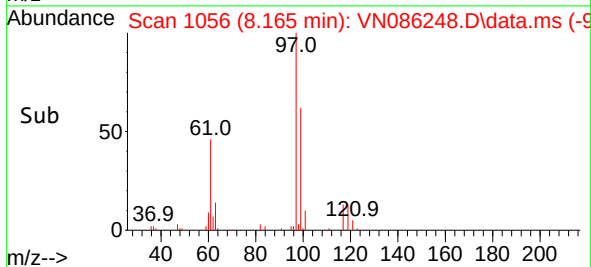
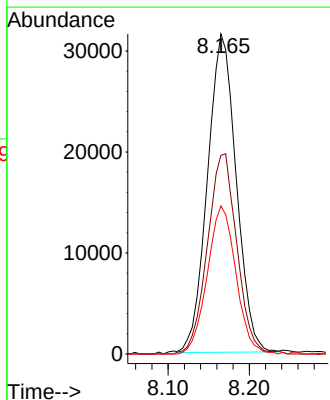
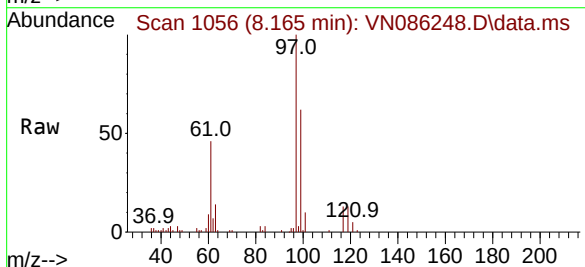
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

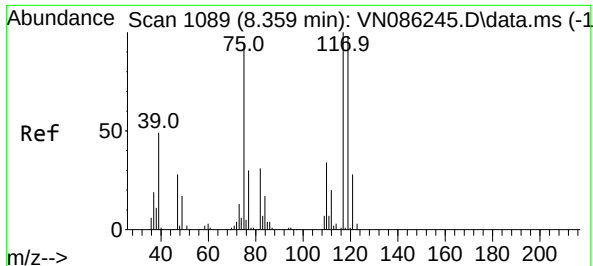
Tgt Ion: 77 Resp: 87512
Ion Ratio Lower Upper
77 100
97 22.7 18.8 28.2



#32
1,1,1-Trichloroethane
Concen: 20.044 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 97 Resp: 77645
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 46.2 37.0 55.6

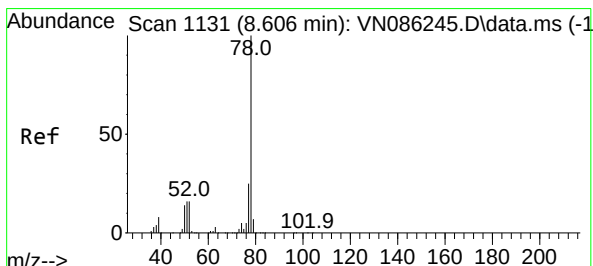
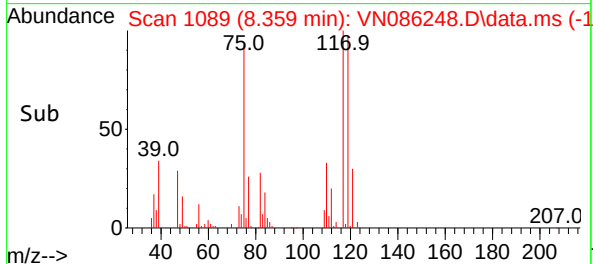
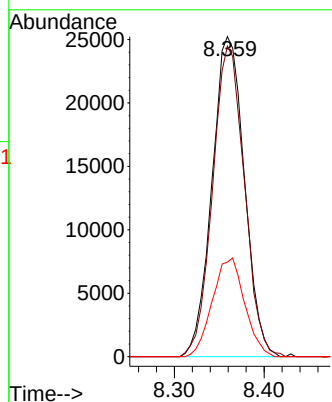
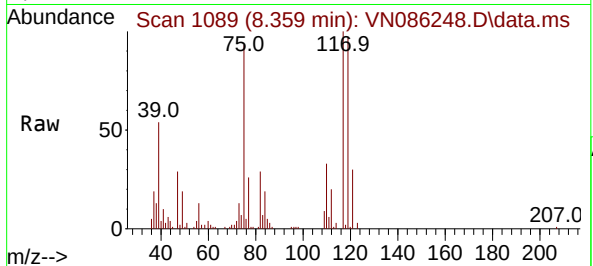




#33
Carbon Tetrachloride
Concen: 20.360 ug/l
RT: 8.359 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

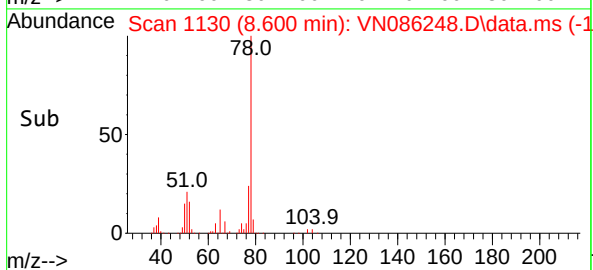
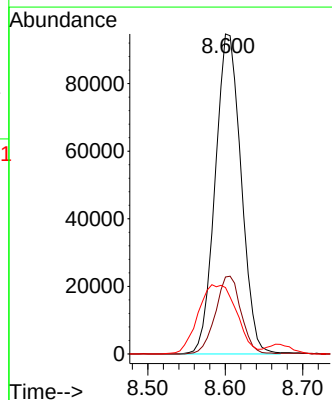
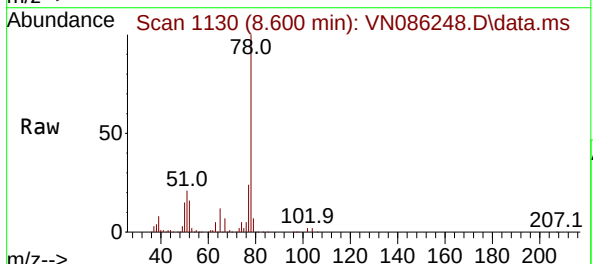
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

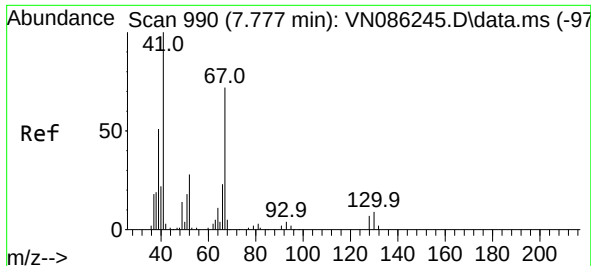
Tgt Ion:117 Resp: 63029
Ion Ratio Lower Upper
117 100
119 97.1 78.3 117.5
121 29.6 22.5 33.7



#34
Benzene
Concen: 20.522 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 78 Resp: 219862
Ion Ratio Lower Upper
78 100
77 24.1 20.0 30.0
51 19.8 12.9 19.3#

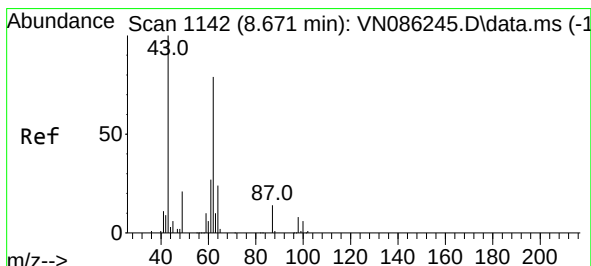
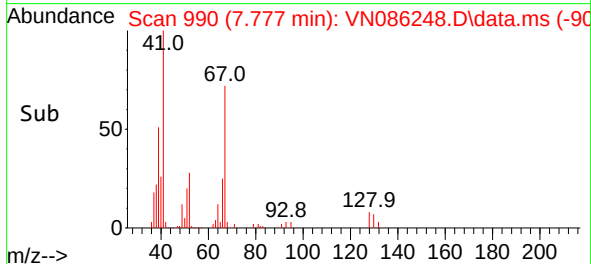
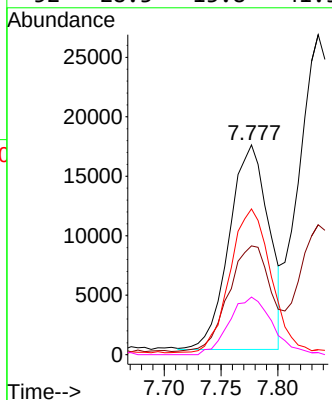
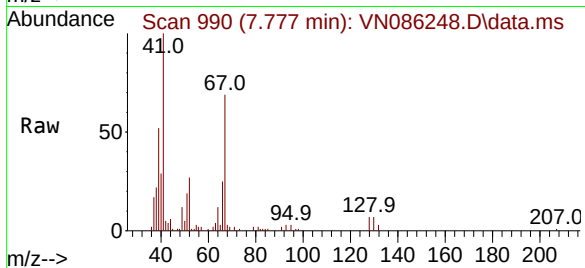




#35
Methacrylonitrile
Concen: 19.764 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

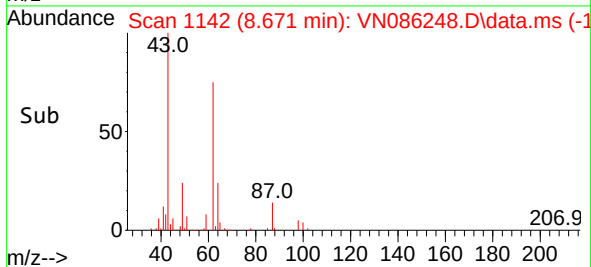
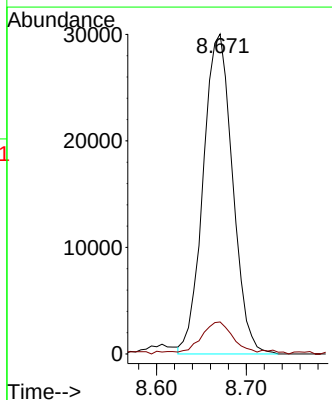
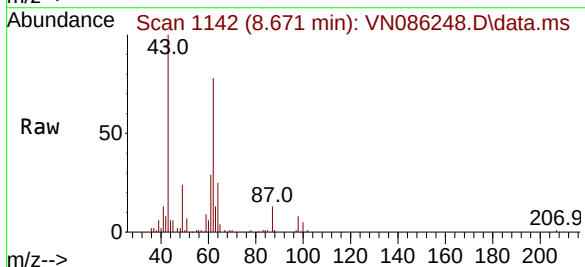
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN041125

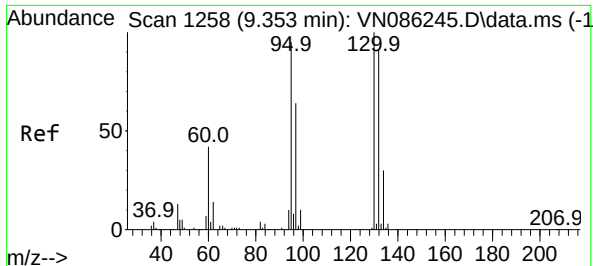
Tgt Ion:	41	Resp:	41577
Ion	Ratio	Lower	Upper
41	100		
39	51.7	25.8	77.3
67	70.4	36.0	108.0
52	28.3	13.8	41.3



#36
1,2-Dichloroethane
Concen: 20.391 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:	62	Resp:	68362
Ion	Ratio	Lower	Upper
62	100		
98	10.6	8.6	12.8





#37

Trichloroethene

Concen: 19.842 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

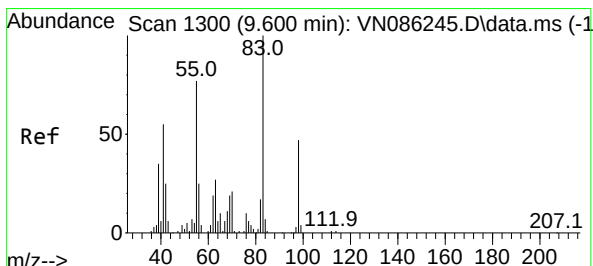
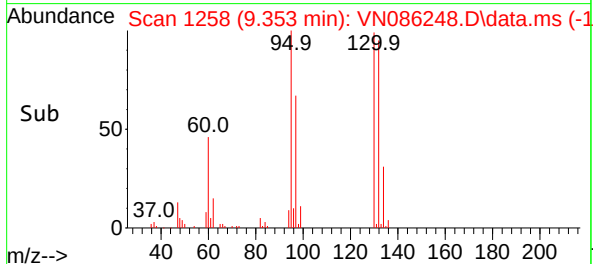
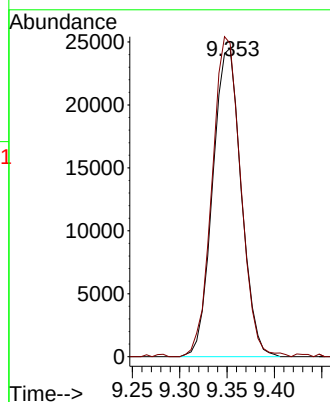
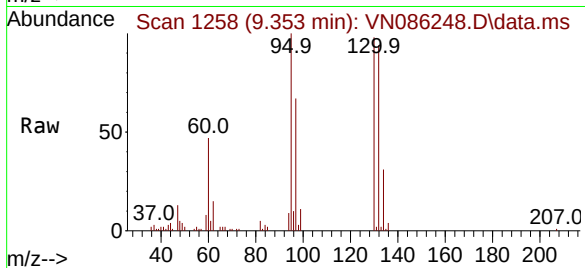
ICVVN041125

Tgt Ion:130 Resp: 51292

Ion Ratio Lower Upper

130 100

95 101.6 76.4 114.6



#38

Methylcyclohexane

Concen: 20.137 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

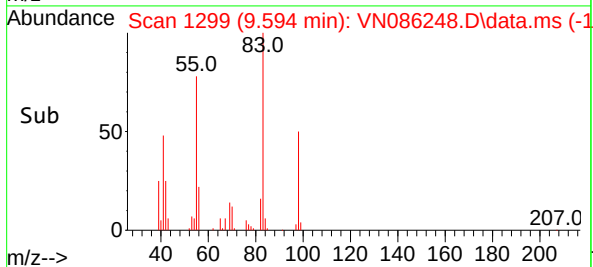
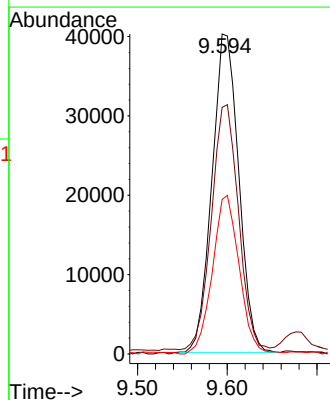
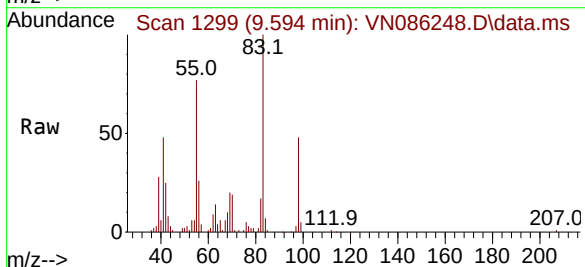
Tgt Ion: 83 Resp: 83168

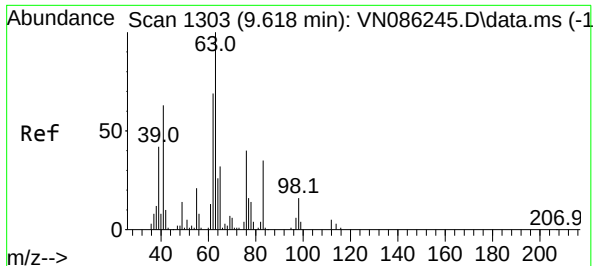
Ion Ratio Lower Upper

83 100

55 78.5 38.5 115.5

98 50.0 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.675 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

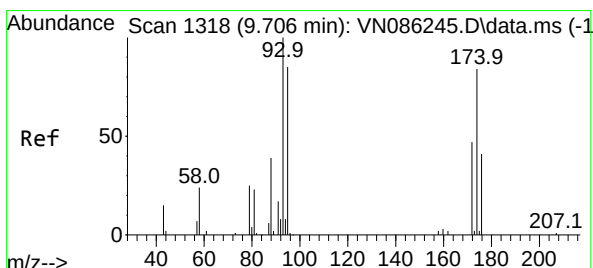
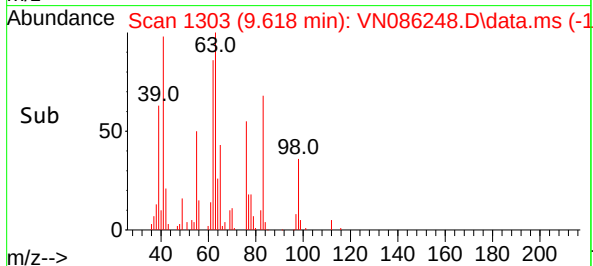
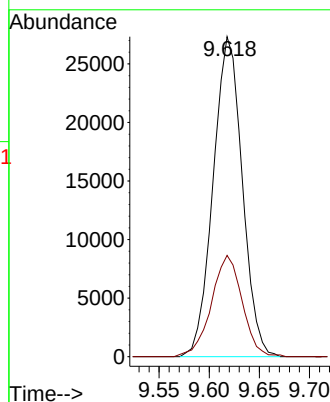
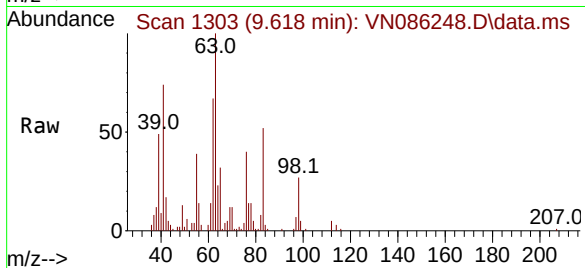
ICVVN041125

Tgt Ion: 63 Resp: 55116

Ion Ratio Lower Upper

63 100

65 31.1 26.0 39.0



#40

Dibromomethane

Concen: 19.681 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

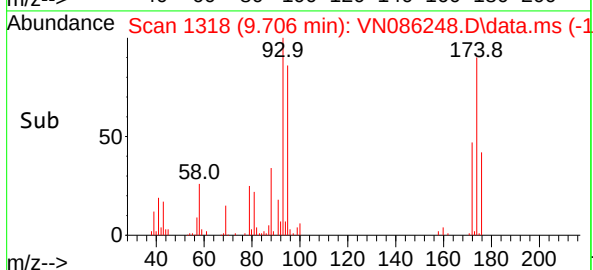
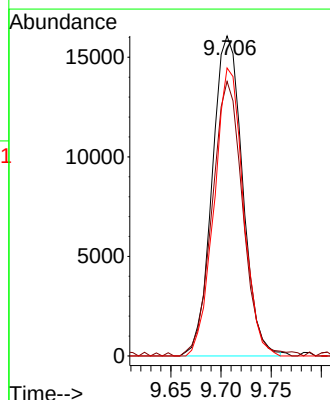
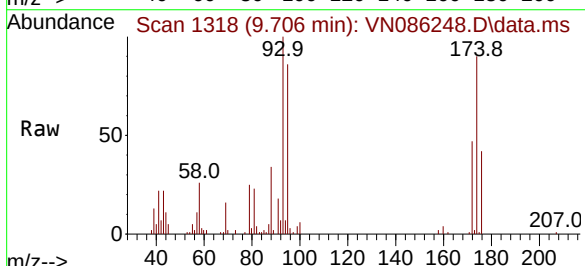
Tgt Ion: 93 Resp: 33887

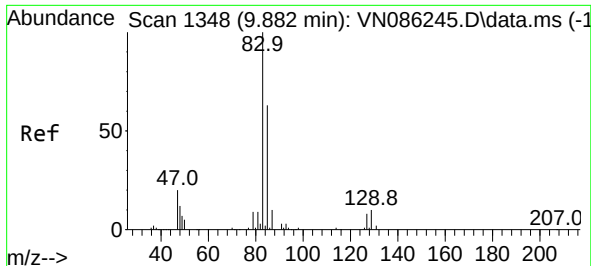
Ion Ratio Lower Upper

93 100

95 86.2 0.0 169.0

174 85.9 0.0 168.0

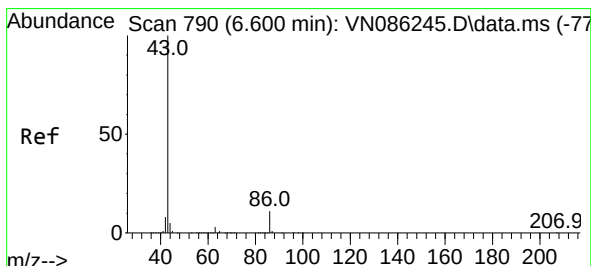
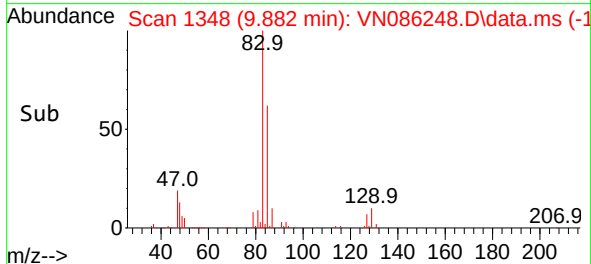
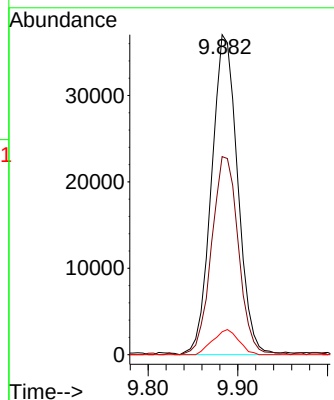
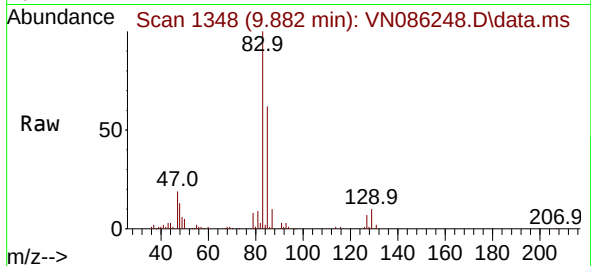




#41
Bromodichloromethane
Concen: 20.289 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

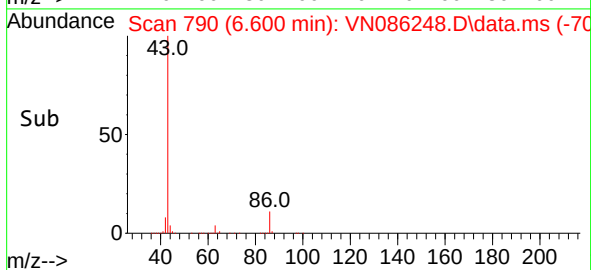
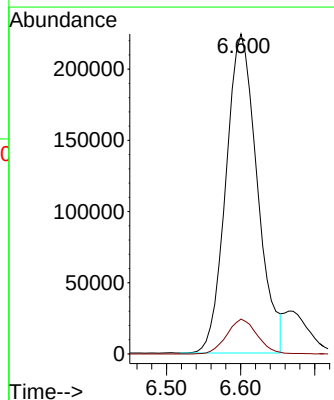
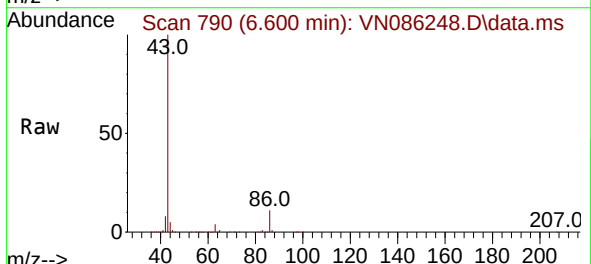
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

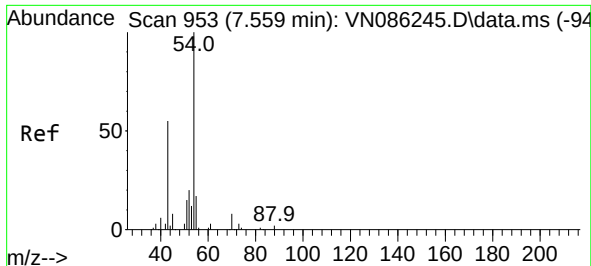
Tgt Ion: 83 Resp: 75048
Ion Ratio Lower Upper
83 100
85 61.9 50.2 75.2
127 7.1 6.2 9.4



#42
Vinyl Acetate
Concen: 103.572 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 657878
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6

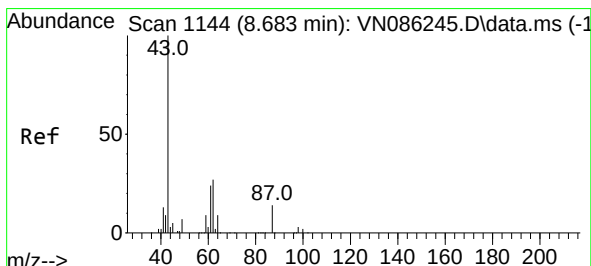
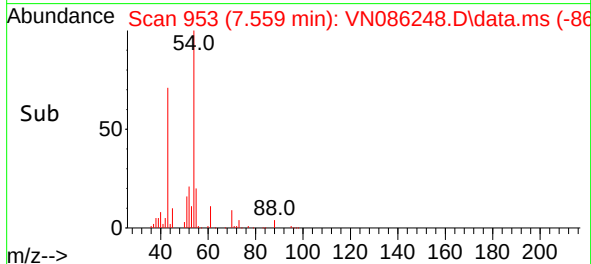
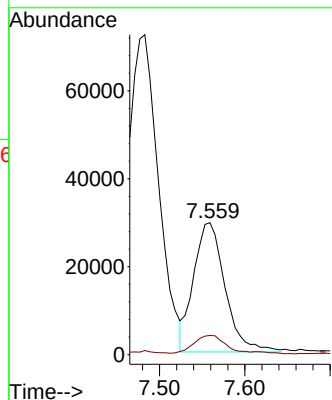
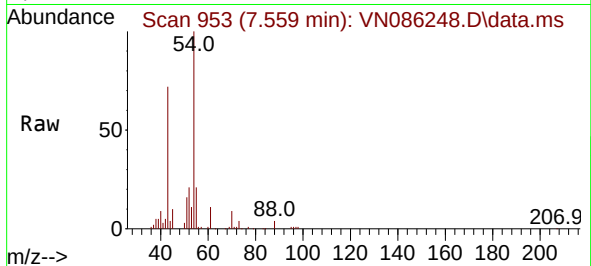




#43
Ethyl Acetate
Concen: 20.054 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

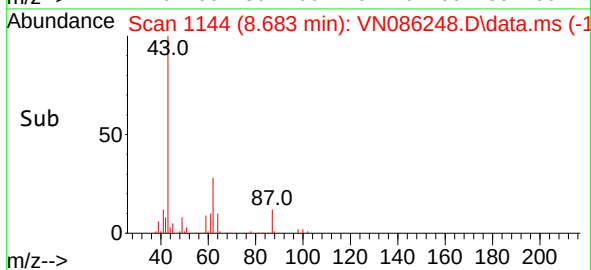
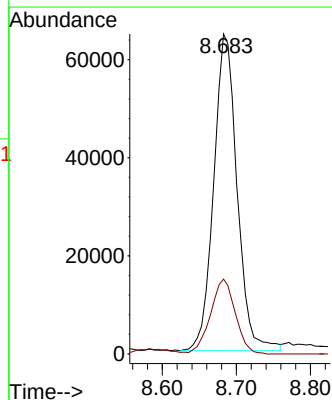
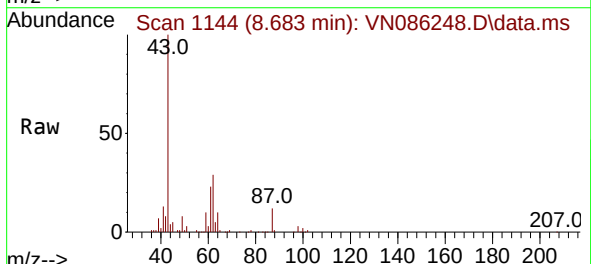
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

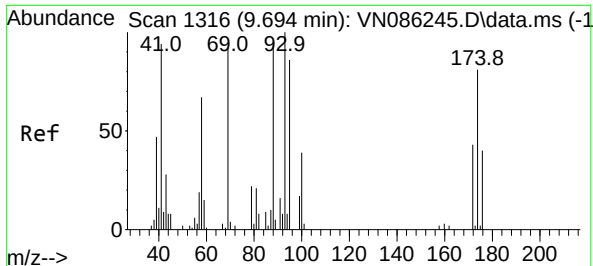
Tgt Ion: 43 Resp: 75482
Ion Ratio Lower Upper
43 100
45 13.3 11.2 16.8



#44
Isopropyl Acetate
Concen: 20.285 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 141640
Ion Ratio Lower Upper
43 100
61 25.0 20.5 30.7





#45

1,4-Dioxane

Concen: 369.952 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

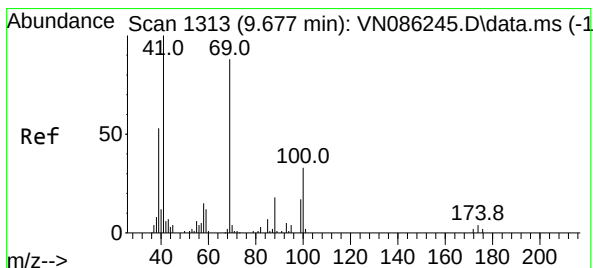
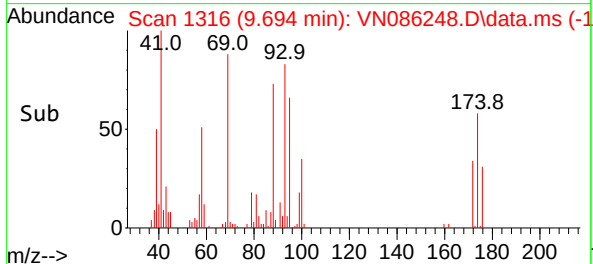
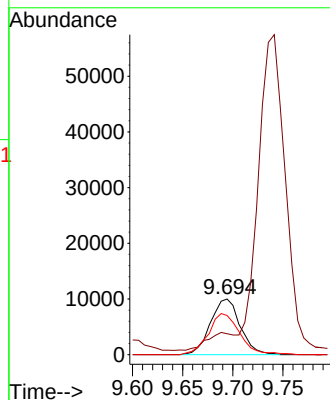
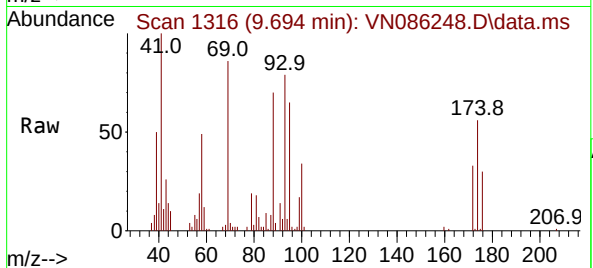
Tgt Ion: 88 Resp: 20541

Ion Ratio Lower Upper

88 100

43 32.9 14.4 21.6#

58 76.6 59.8 89.8



#46

Methyl methacrylate

Concen: 19.956 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

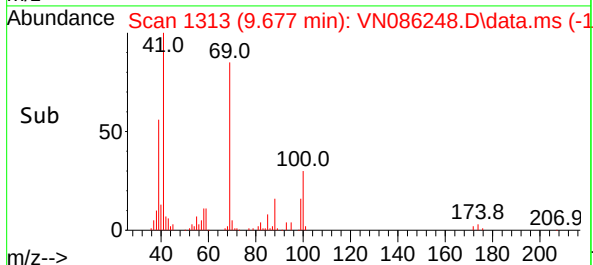
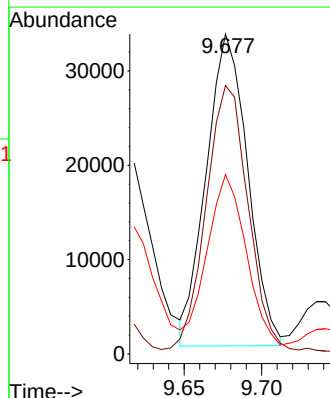
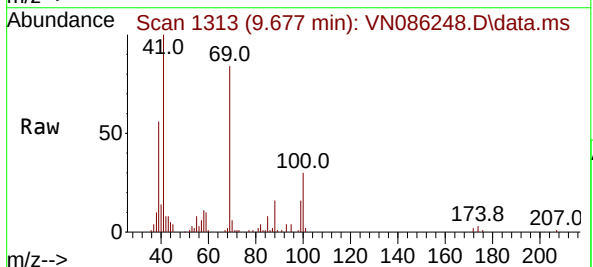
Tgt Ion: 41 Resp: 61396

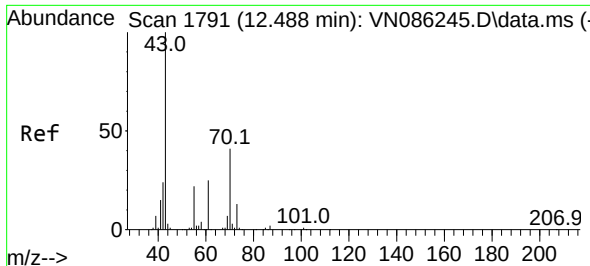
Ion Ratio Lower Upper

41 100

69 85.0 43.2 129.6

39 56.3 26.4 79.0

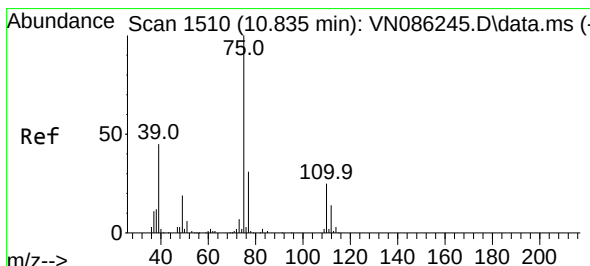
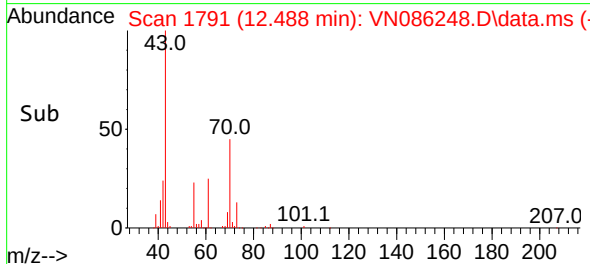
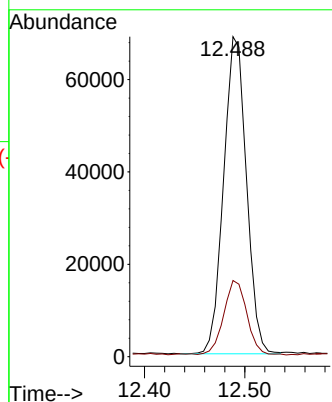
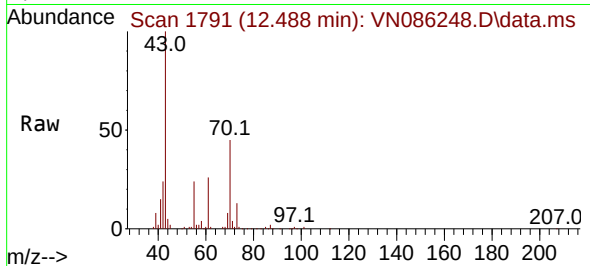




#47
n-amy1 Acetate
Concen: 19.589 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

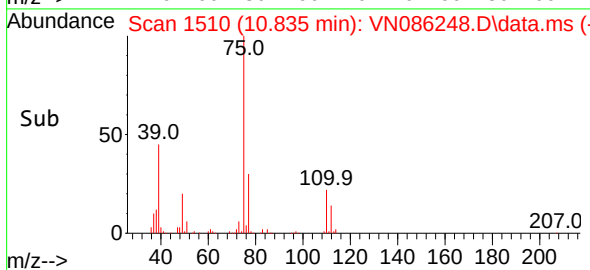
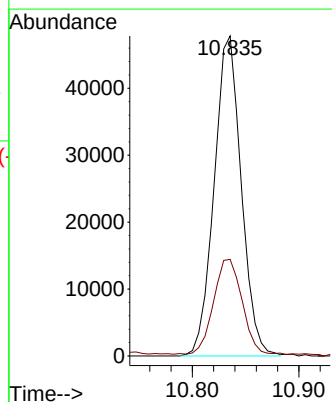
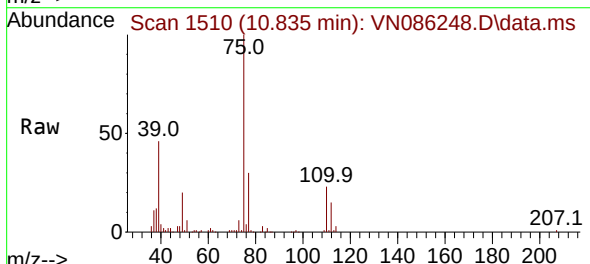
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

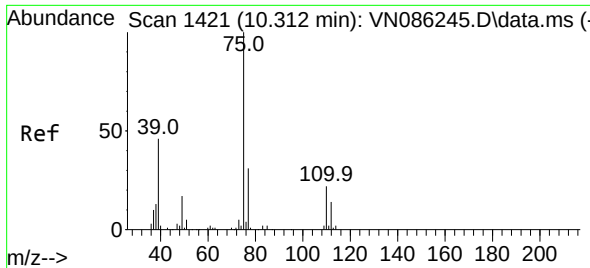
Tgt Ion: 43 Resp: 108446
Ion Ratio Lower Upper
43 100
55 23.4 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 20.190 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 75 Resp: 84428
Ion Ratio Lower Upper
75 100
77 29.4 25.1 37.7

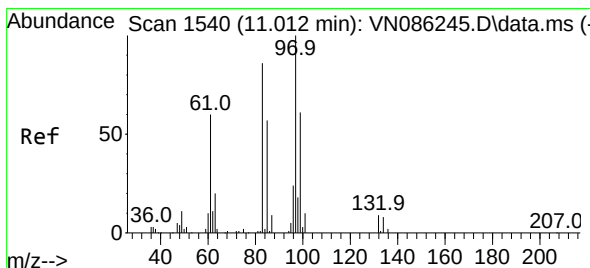
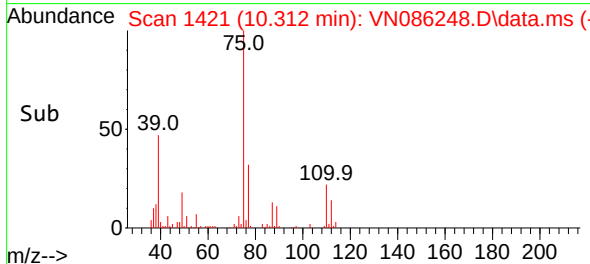
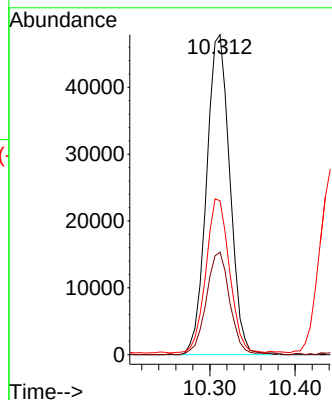
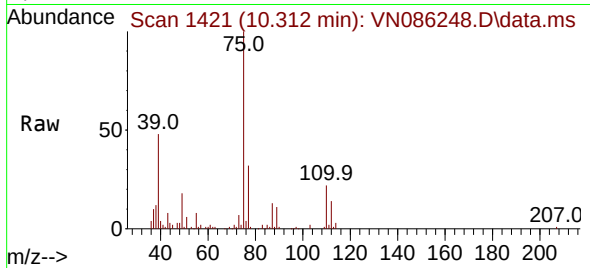




#49
 cis-1,3-Dichloropropene
 Concen: 20.581 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

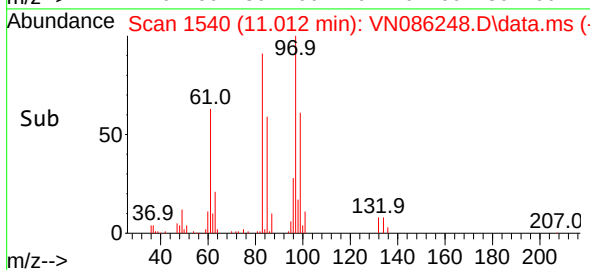
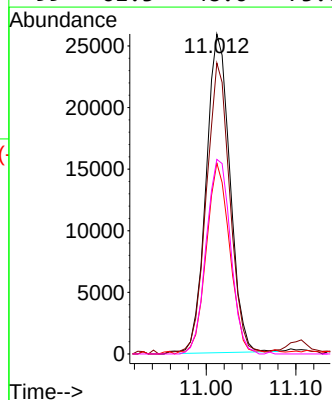
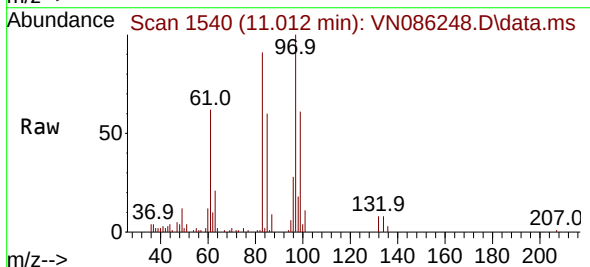
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

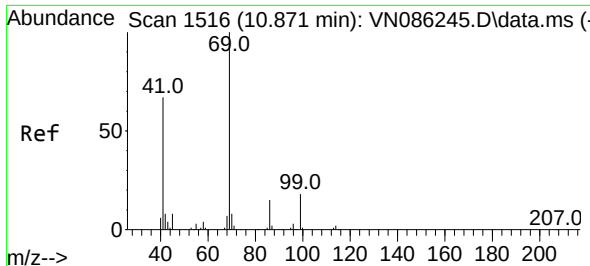
Tgt Ion:	75	Resp:	91089
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.4
39	47.4	36.7	55.1



#50
 1,1,2-Trichloroethane
 Concen: 19.741 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion:	97	Resp:	47672
Ion	Ratio	Lower	Upper
97	100		
83	90.8	68.6	103.0
85	59.4	45.9	68.9
99	61.3	48.6	73.0

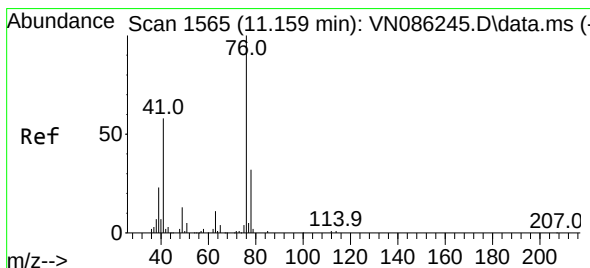
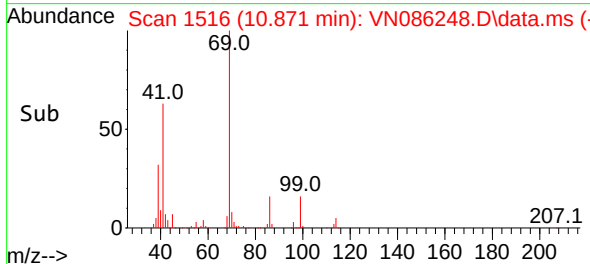
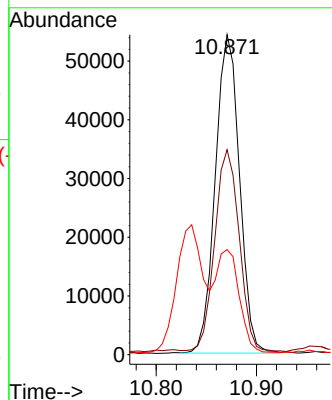
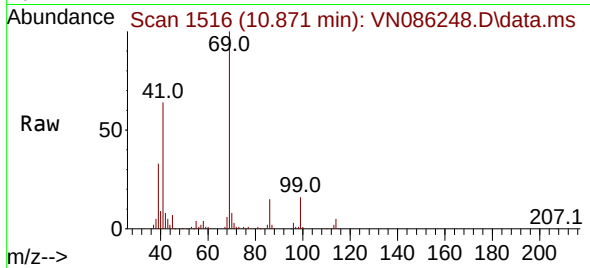




#51
Ethyl methacrylate
Concen: 20.259 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

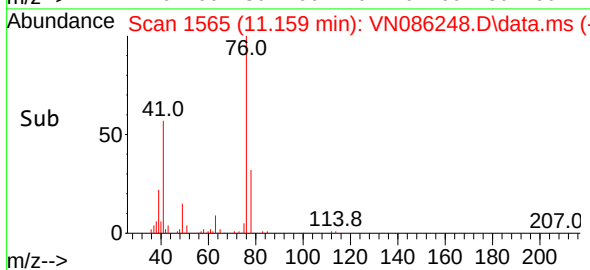
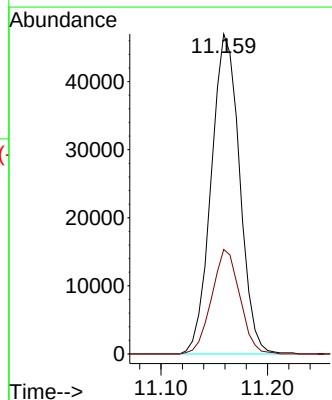
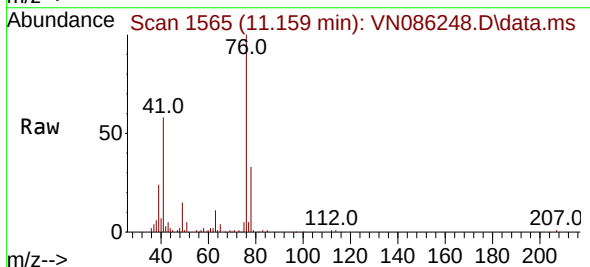
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

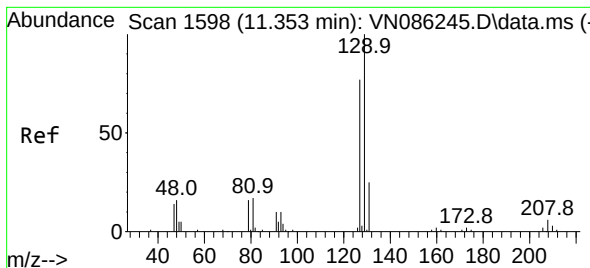
Tgt Ion: 69 Resp: 90916
Ion Ratio Lower Upper
69 100
41 63.2 33.6 100.6
39 32.3 17.8 53.4



#52
1,3-Dichloropropane
Concen: 20.216 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 76 Resp: 87015
Ion Ratio Lower Upper
76 100
78 32.4 0.0 64.6

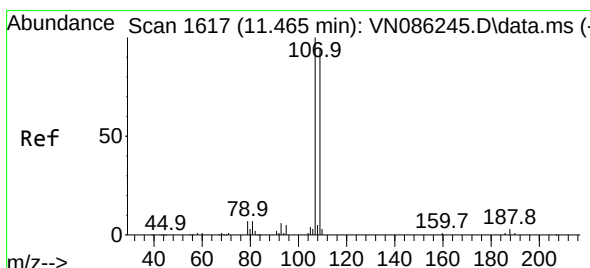
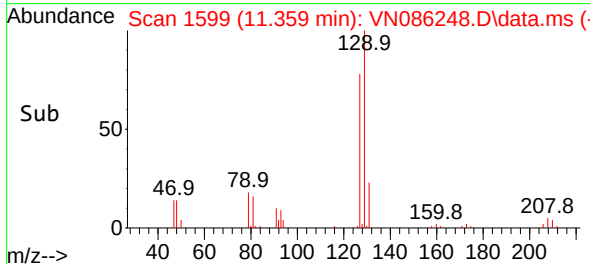
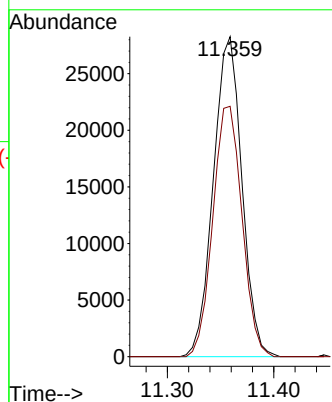
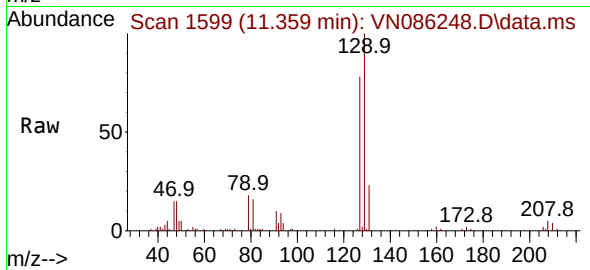




#53
Dibromochloromethane
Concen: 19.923 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

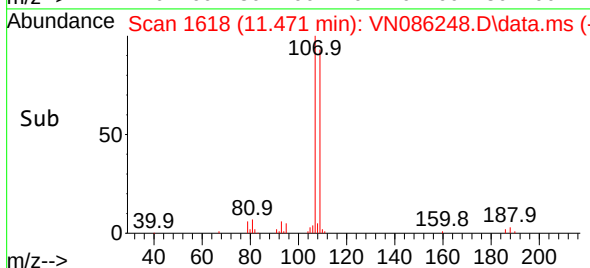
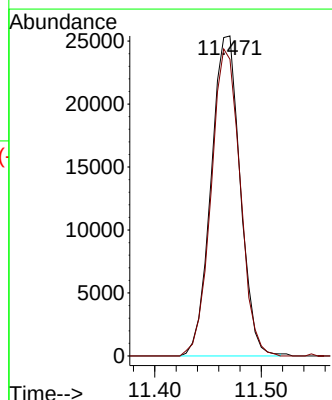
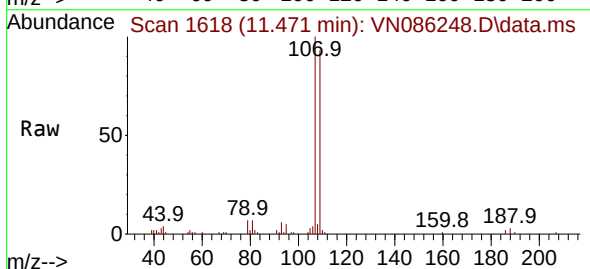
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

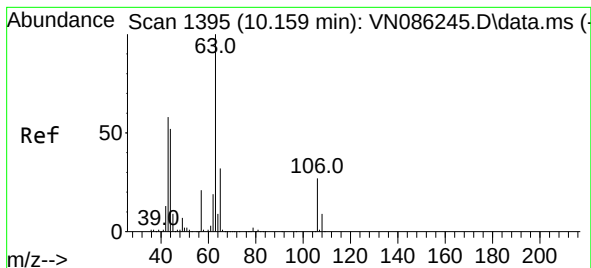
Tgt Ion:129 Resp: 52628
Ion Ratio Lower Upper
129 100
127 79.9 38.5 115.5



#54
1,2-Dibromoethane
Concen: 19.762 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:107 Resp: 48175
Ion Ratio Lower Upper
107 100
109 95.6 75.2 112.8

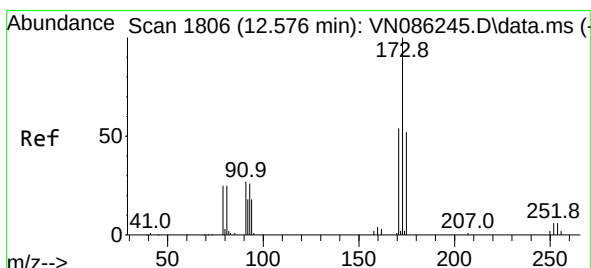
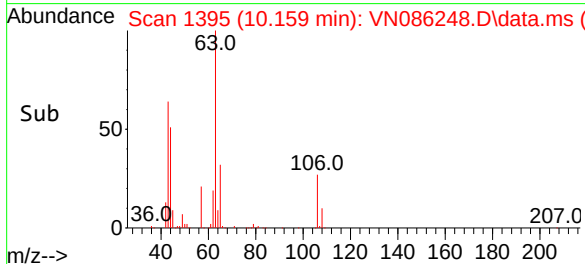
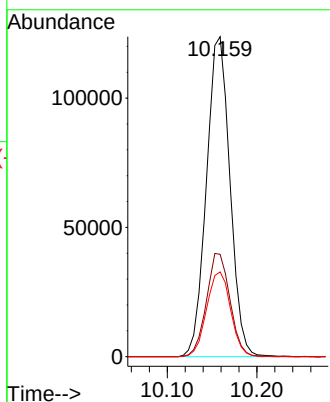
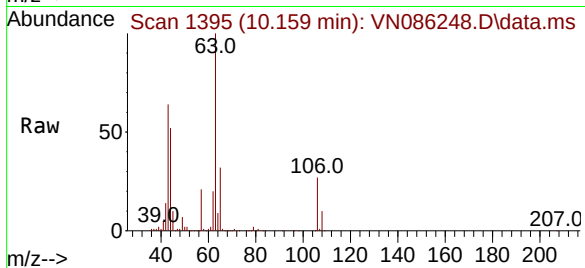




#55
2-Chloroethyl vinyl ether
Concen: 132.990 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

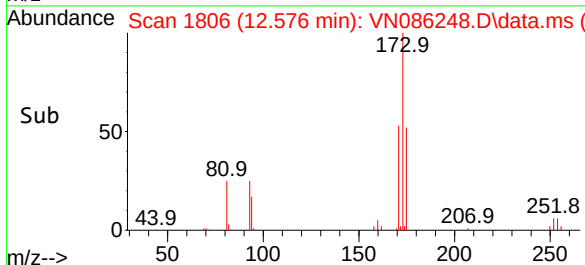
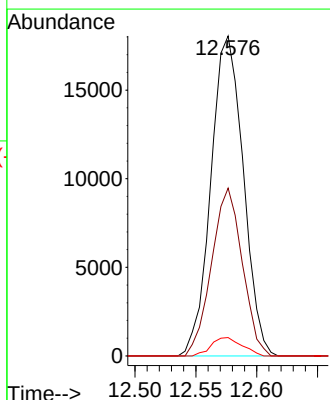
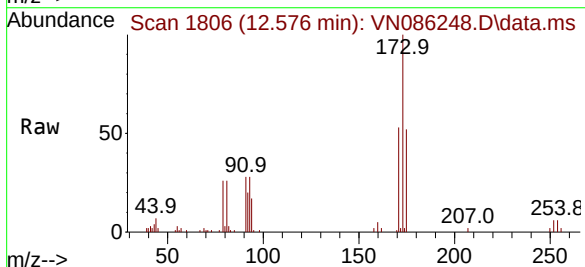
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

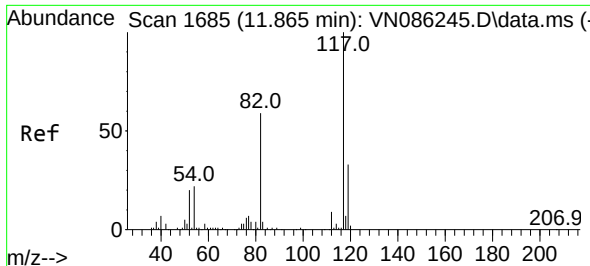
Tgt Ion: 63 Resp: 225521
Ion Ratio Lower Upper
63 100
65 32.2 25.8 38.8
106 27.0 21.8 32.8



#56
Bromoform
Concen: 19.359 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 173 Resp: 33456
Ion Ratio Lower Upper
173 100
175 49.7 38.2 57.4
254 5.5 4.5 6.7

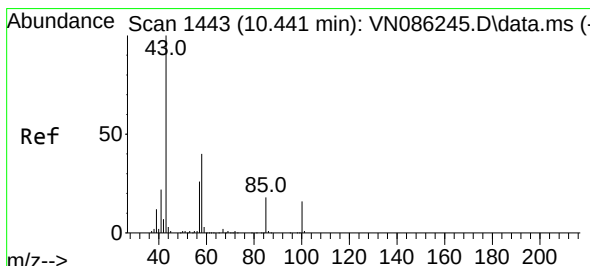
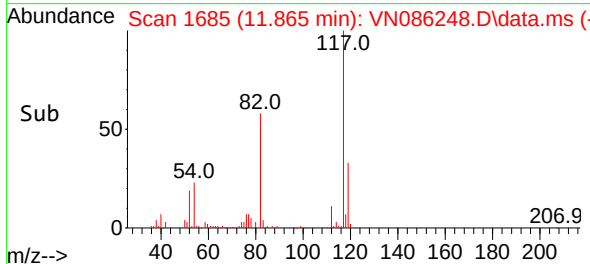
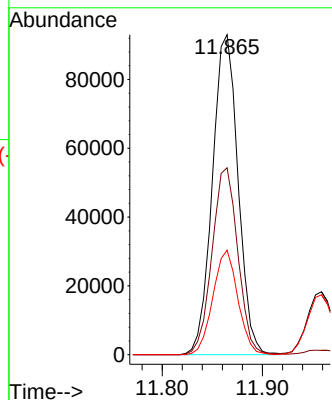
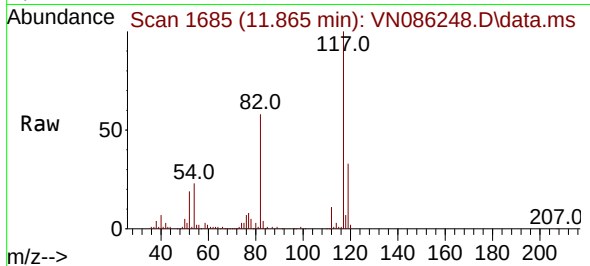




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 11865
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

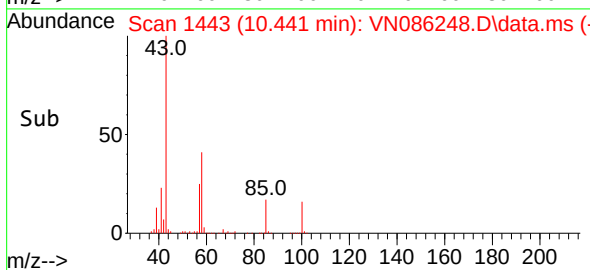
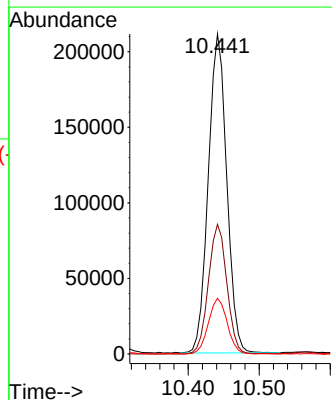
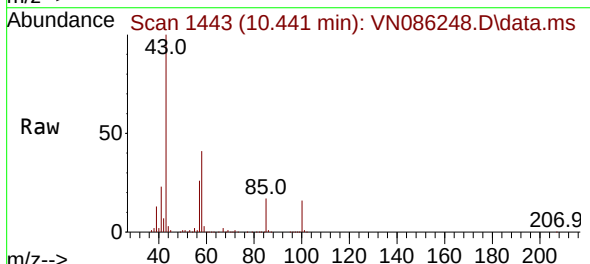
Instrument :
MSVOA_N
ClientSampleId :
ICV041125

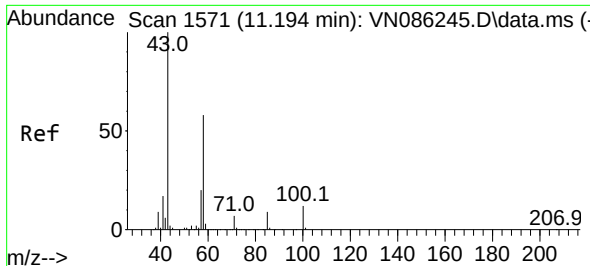
Tgt Ion:117 Resp: 165721
Ion Ratio Lower Upper
117 100
82 58.7 47.3 70.9
119 31.7 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 101.329 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 381072
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 17.8 14.4 21.6

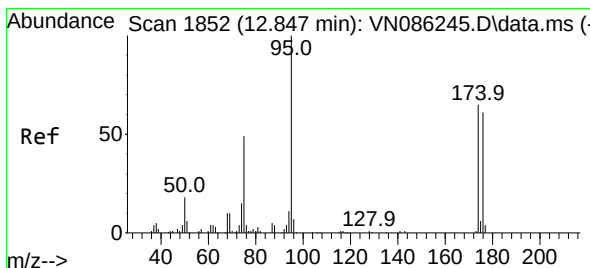
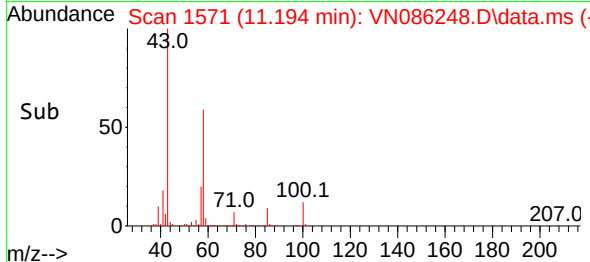
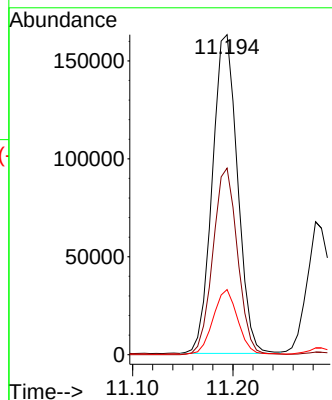
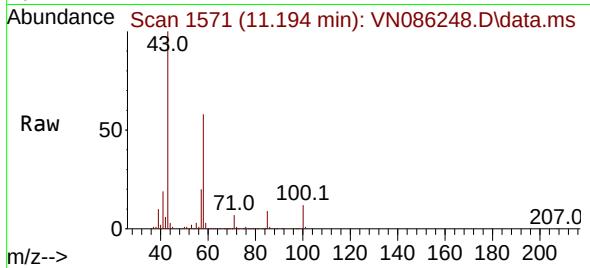




#59
2-Hexanone
Concen: 101.451 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

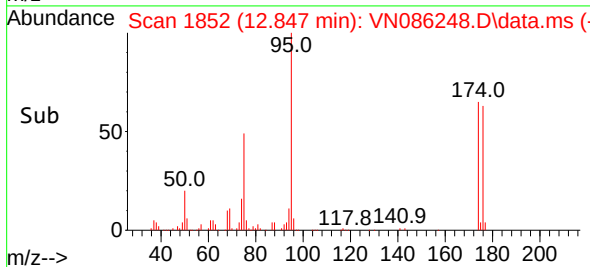
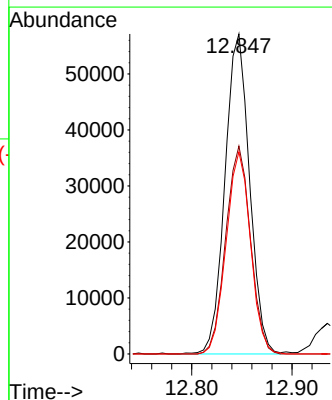
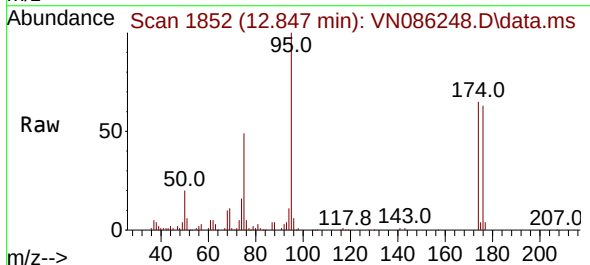
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

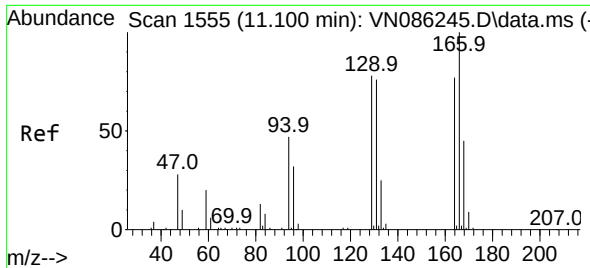
Tgt Ion: 43 Resp: 284098
Ion Ratio Lower Upper
43 100
58 57.1 45.3 67.9
57 19.4 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 29.482 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 95 Resp: 97275
Ion Ratio Lower Upper
95 100
174 65.2 52.7 79.1
176 62.4 49.8 74.8

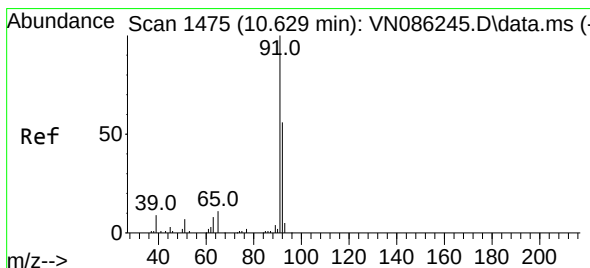
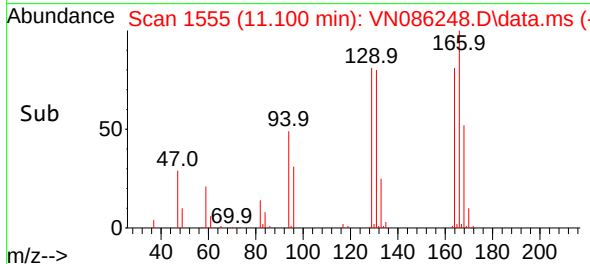
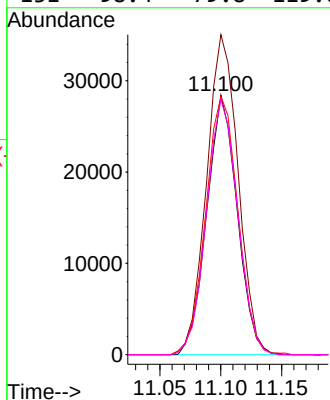
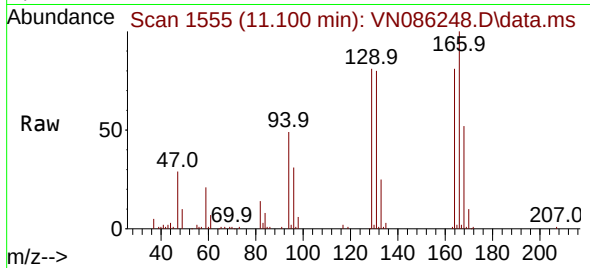




#61
Tetrachloroethene
Concen: 20.169 ug/l
RT: 11.100 min Scan# 1155
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

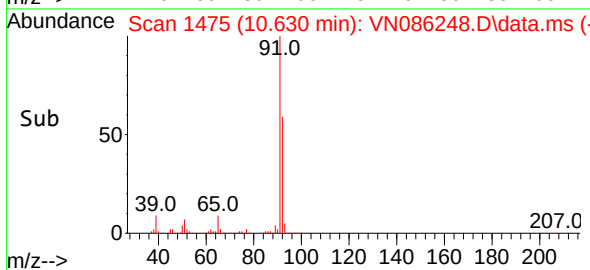
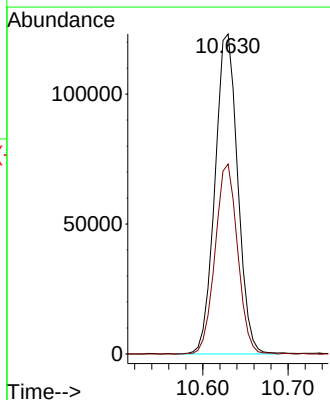
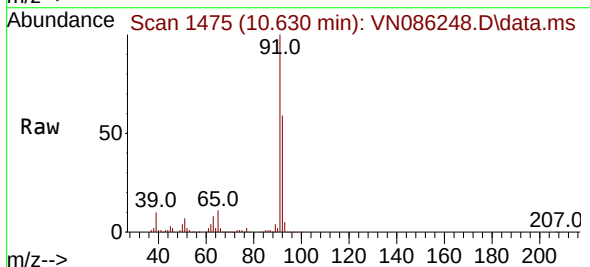
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

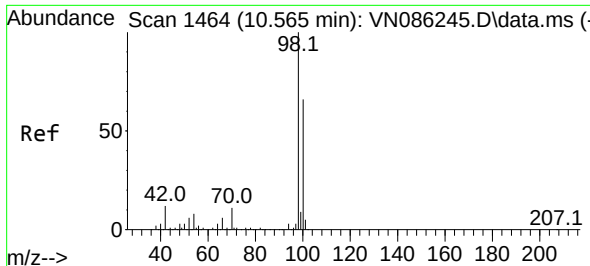
Tgt Ion:164 Resp: 49360
Ion Ratio Lower Upper
164 100
166 122.8 104.5 156.7
129 99.1 81.7 122.5
131 98.4 79.8 119.6



#62
Toluene
Concen: 20.568 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 228625
Ion Ratio Lower Upper
91 100
92 58.6 46.8 70.2

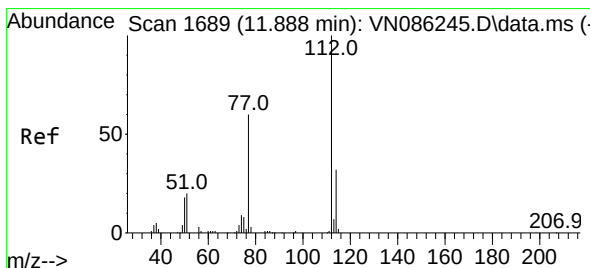
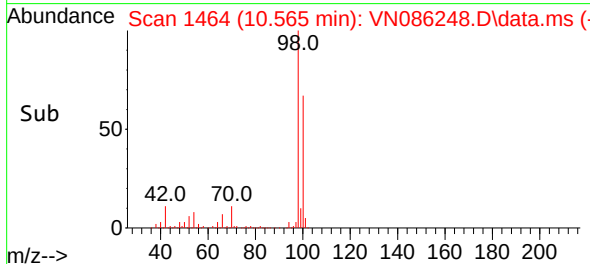
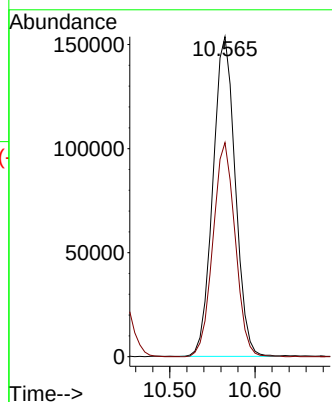
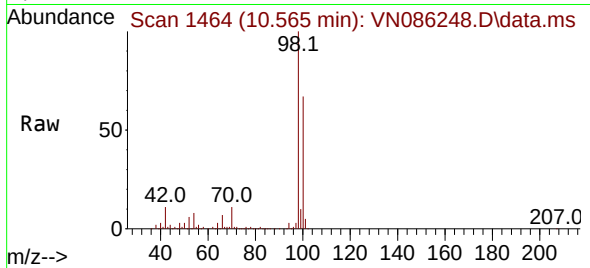




#63
Toluene-d8
Concen: 29.890 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

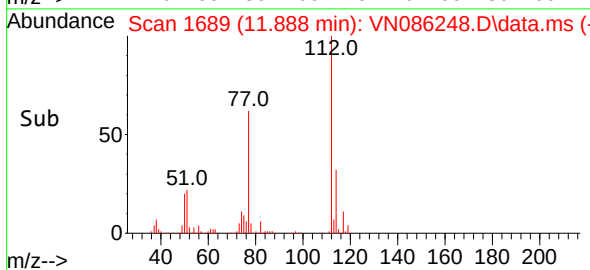
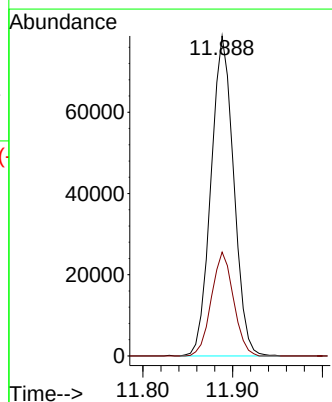
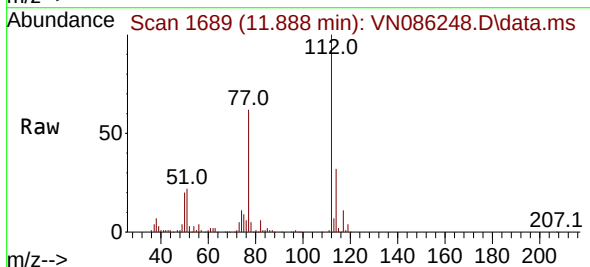
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

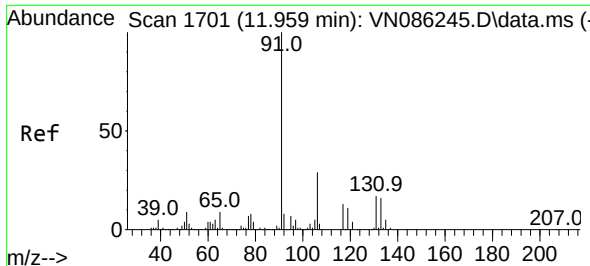
Tgt Ion: 98 Resp: 279650
Ion Ratio Lower Upper
98 100
100 66.6 52.3 78.5



#64
Chlorobenzene
Concen: 20.424 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 112 Resp: 138700
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.6

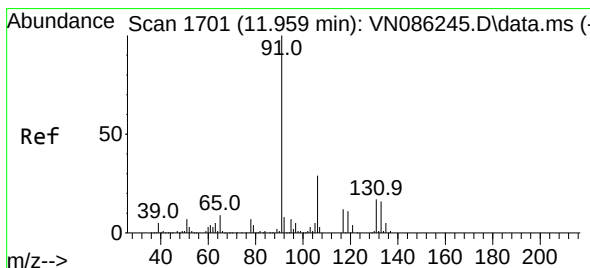
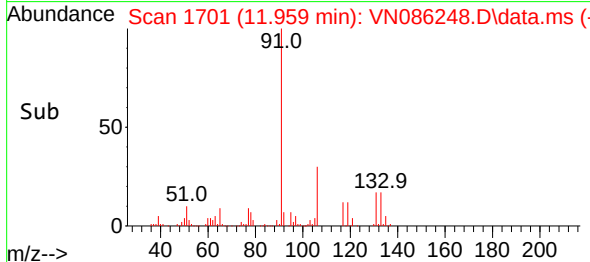
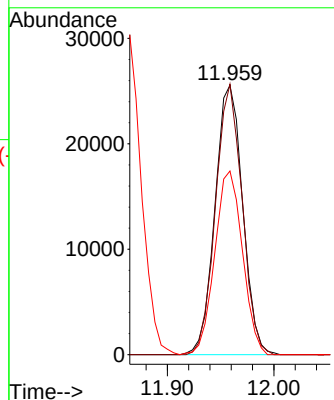
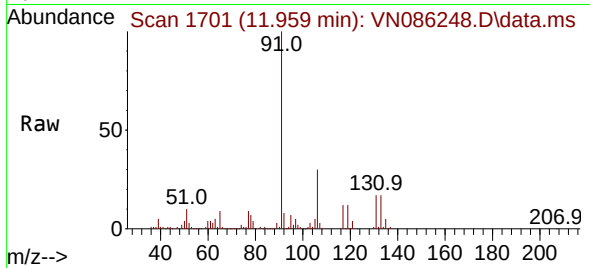




#65
 1,1,1,2-Tetrachloroethane
 Concen: 20.546 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

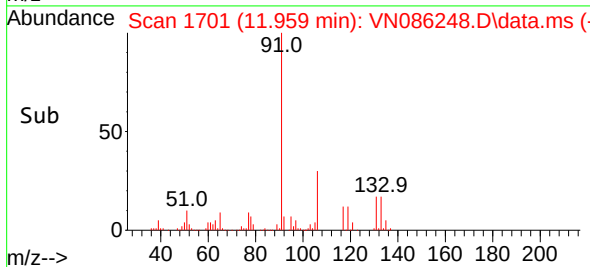
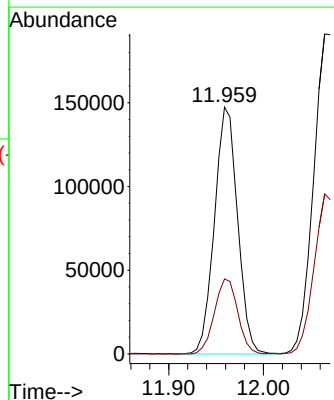
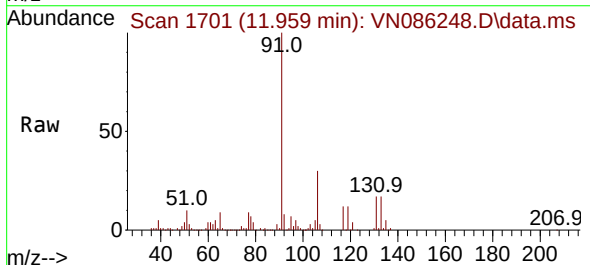
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

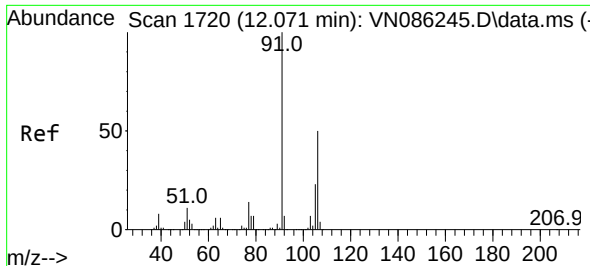
Tgt Ion:131 Resp: 46048
 Ion Ratio Lower Upper
 131 100
 133 96.3 0.0 190.4
 119 68.4 0.0 135.6



#66
 Ethyl Benzene
 Concen: 20.336 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 250686
 Ion Ratio Lower Upper
 91 100
 106 30.4 23.4 35.0





#67

m/p-Xylenes

Concen: 40.633 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

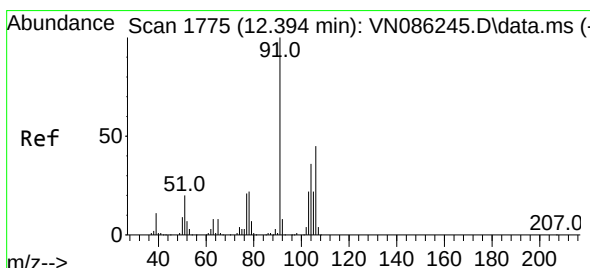
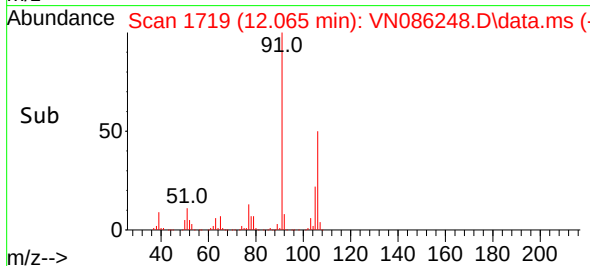
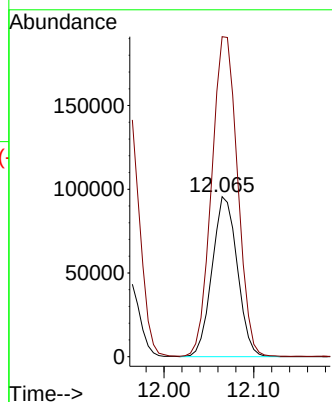
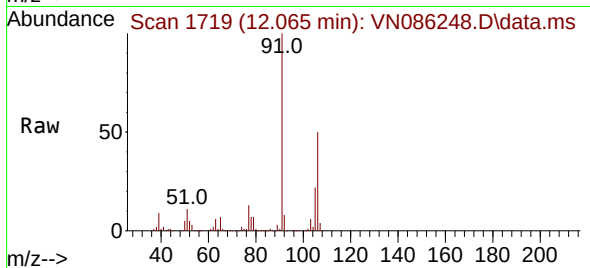
ICVVN041125

Tgt Ion:106 Resp: 186247

Ion Ratio Lower Upper

106 100

91 205.6 164.5 246.7



#68

o-Xylene

Concen: 20.528 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN086248.D

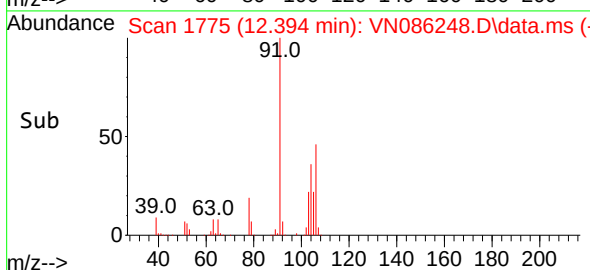
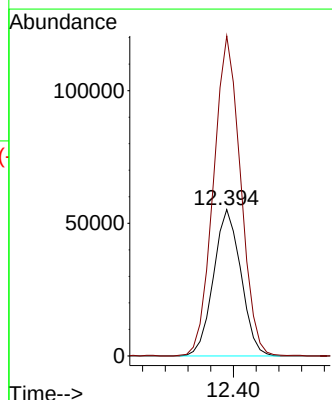
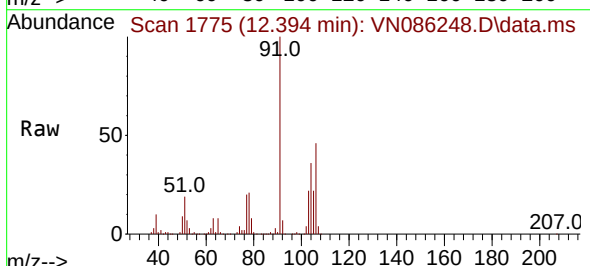
Acq: 11 Apr 2025 13:34

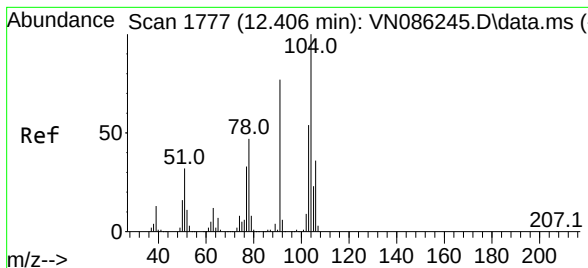
Tgt Ion:106 Resp: 92550

Ion Ratio Lower Upper

106 100

91 216.2 109.8 329.4





#69

Styrene

Concen: 20.281 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

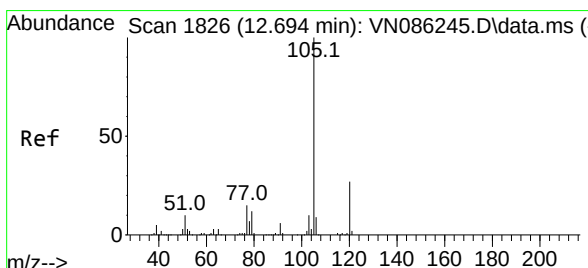
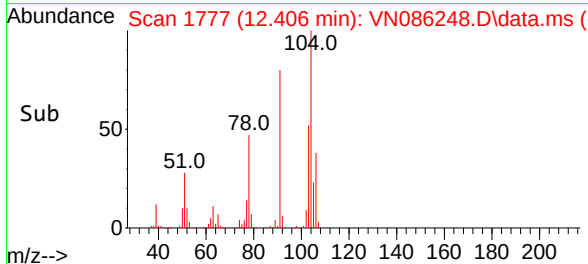
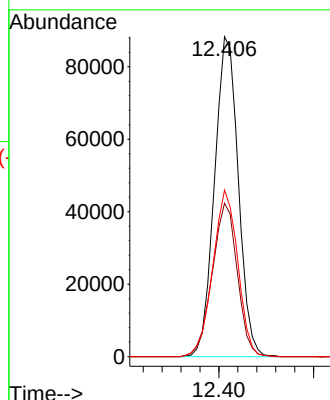
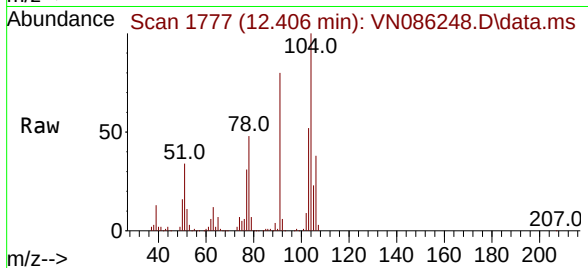
Tgt Ion:104 Resp: 154208

Ion Ratio Lower Upper

104 100

78 50.6 41.4 62.0

103 54.6 44.2 66.4



#70

Isopropylbenzene

Concen: 20.275 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086248.D

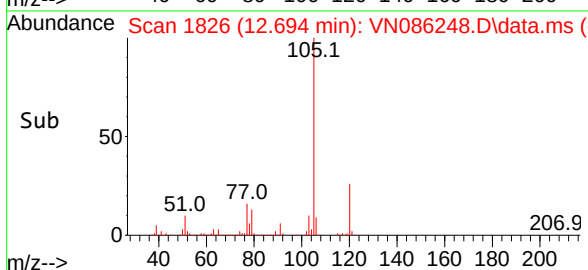
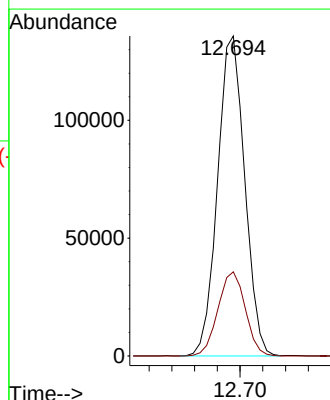
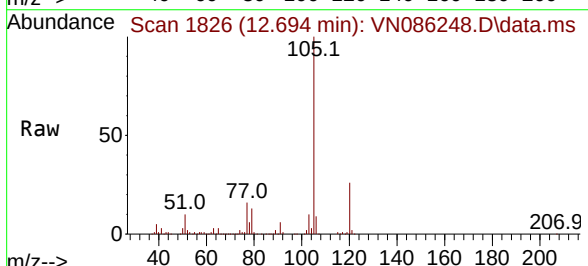
Acq: 11 Apr 2025 13:34

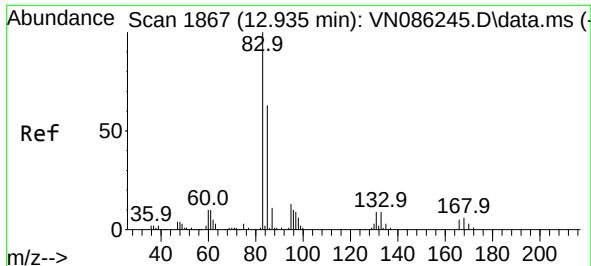
Tgt Ion:105 Resp: 225389

Ion Ratio Lower Upper

105 100

120 26.4 18.3 34.1

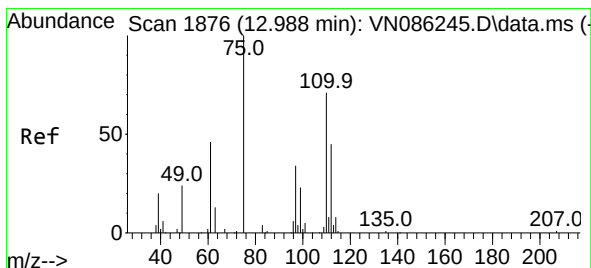
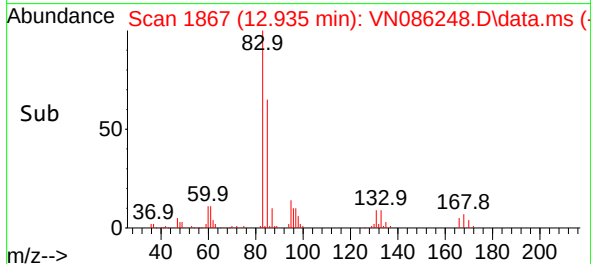
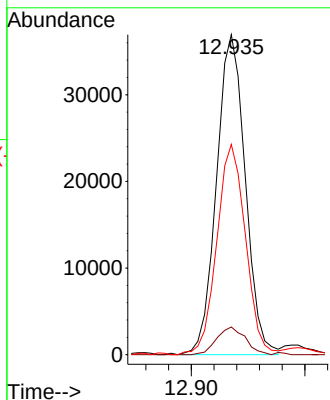
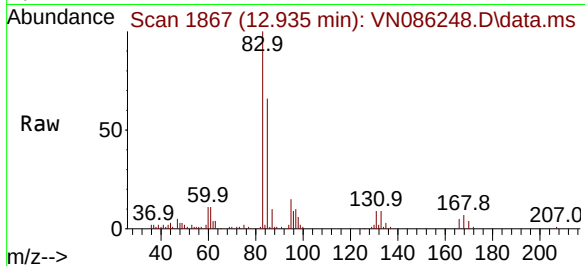




#71
 1,1,2-Tetrachloroethane
 Concen: 20.516 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

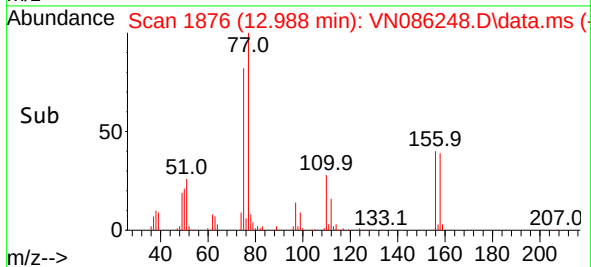
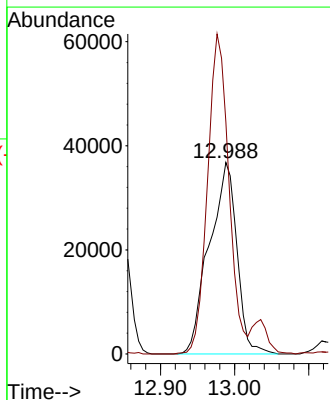
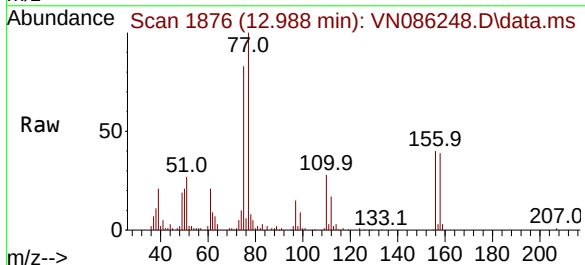
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

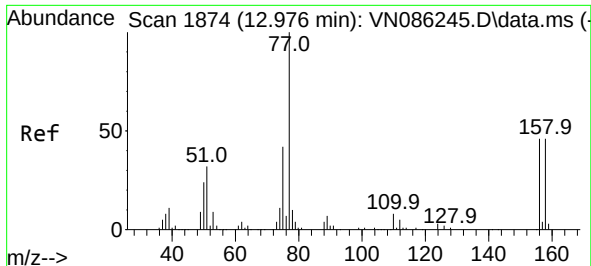
Tgt Ion: 83 Resp: 64915
 Ion Ratio Lower Upper
 83 100
 131 8.6 4.8 14.3
 85 65.4 32.3 96.8



#72
 1,2,3-Trichloropropane
 Concen: 28.885 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion: 75 Resp: 95136
 Ion Ratio Lower Upper
 75 100
 77 129.4 0.0 380.0

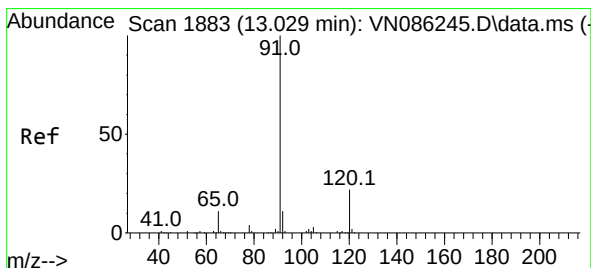
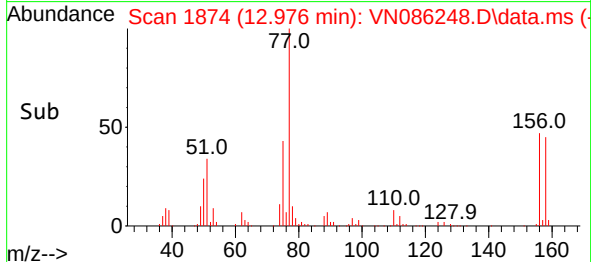
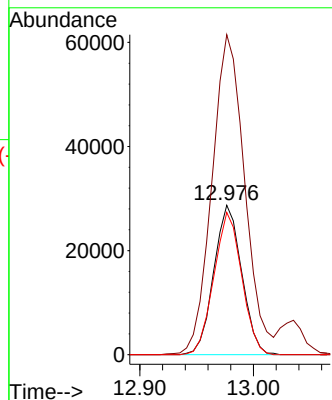
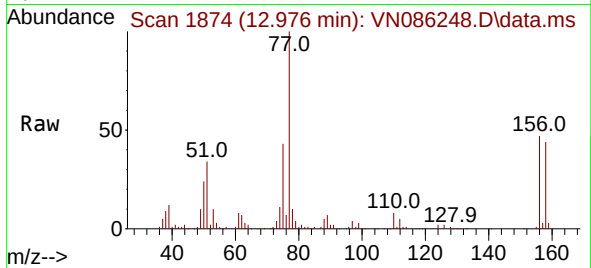




#73
Bromobenzene
Concen: 19.870 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

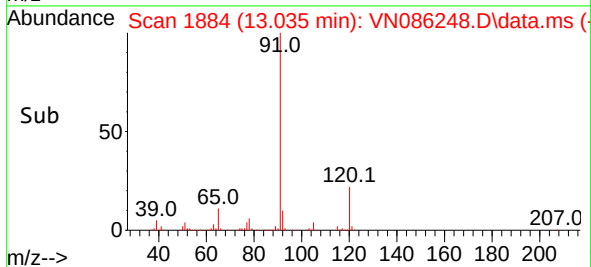
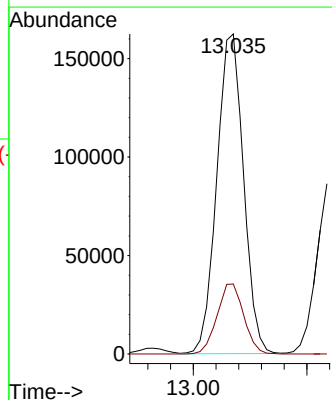
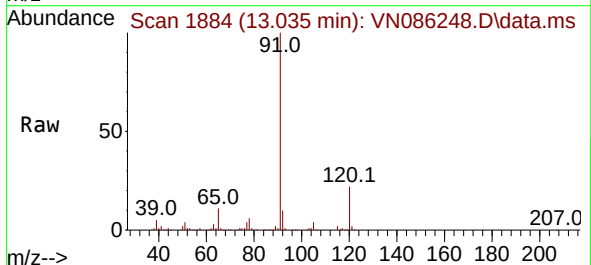
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

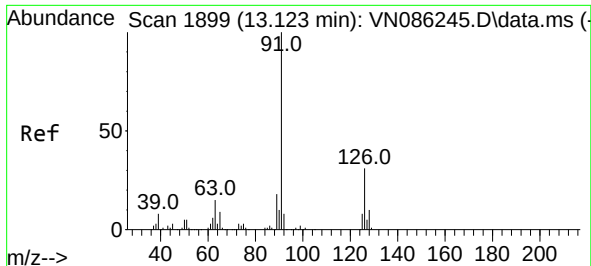
Tgt Ion:156 Resp: 48932
Ion Ratio Lower Upper
156 100
77 251.7 0.0 505.2
158 95.0 0.0 195.0



#74
n-propylbenzene
Concen: 20.227 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 265507
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0

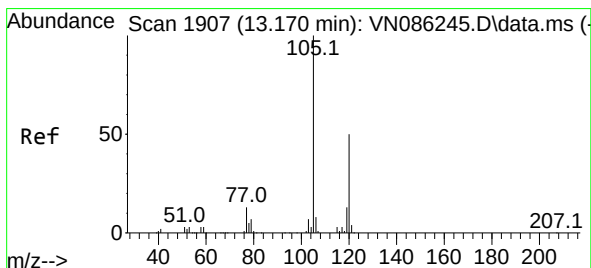
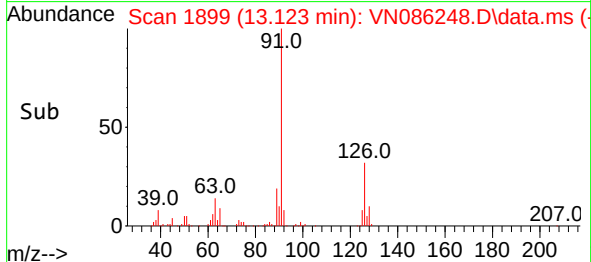
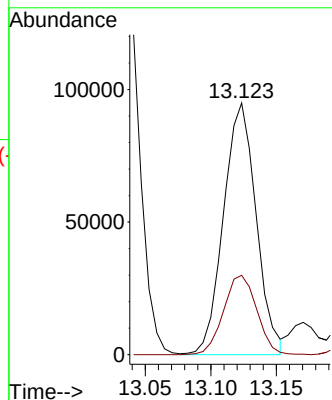
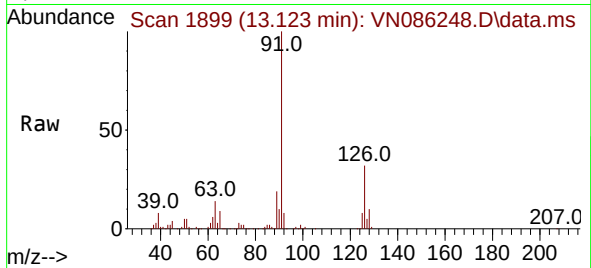




#75
2-Chlorotoluene
Concen: 19.943 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

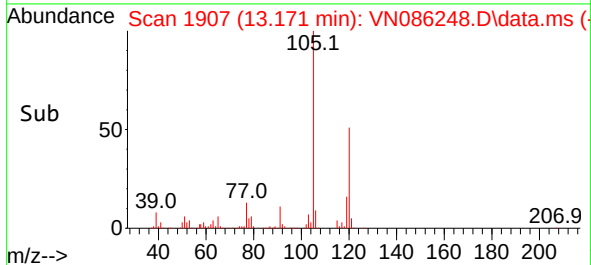
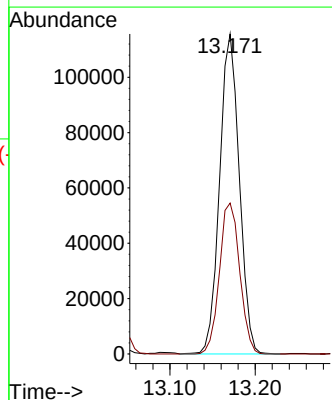
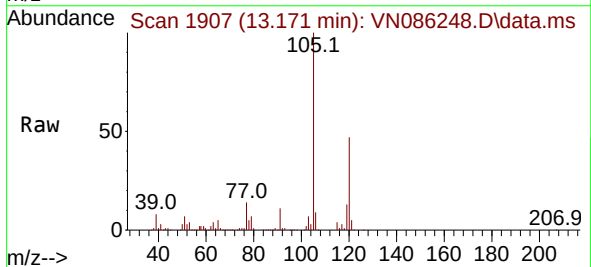
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

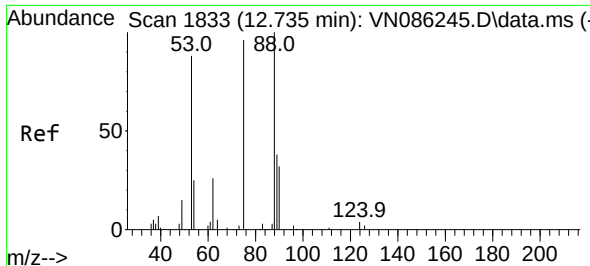
Tgt Ion: 91 Resp: 164538
Ion Ratio Lower Upper
91 100
126 32.1 0.0 63.4



#76
1,3,5-Trimethylbenzene
Concen: 20.354 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 105 Resp: 185869
Ion Ratio Lower Upper
105 100
120 48.5 0.0 98.0

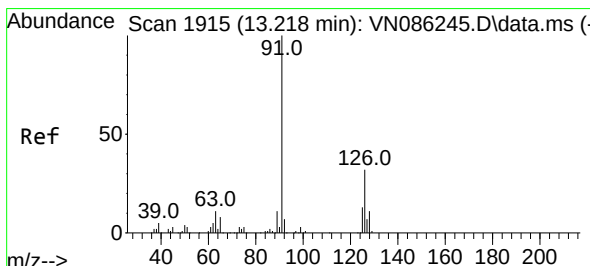
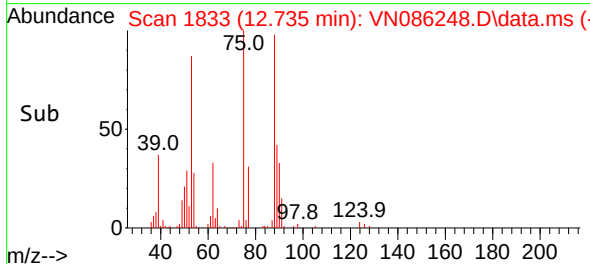
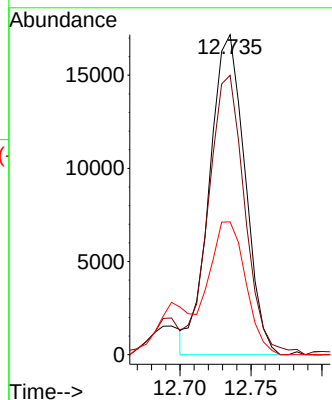
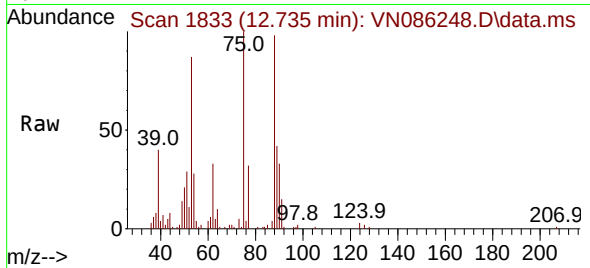




#77
t-1,4-Dichloro-2-butene
Concen: 19.590 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

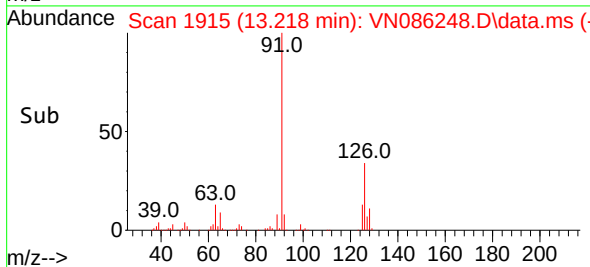
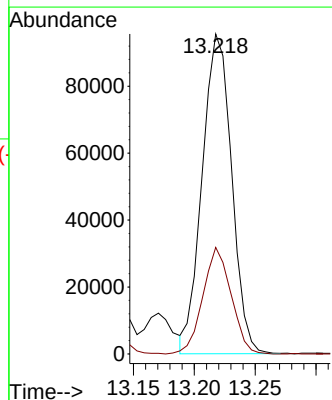
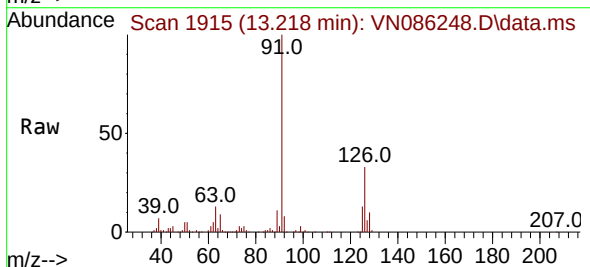
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

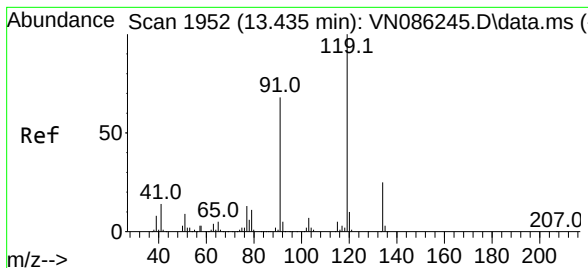
Tgt Ion: 75 Resp: 29750
Ion Ratio Lower Upper
75 100
53 85.0 46.4 139.2
89 41.5 22.5 67.5



#78
4-Chlorotoluene
Concen: 19.528 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 160908
Ion Ratio Lower Upper
91 100
126 31.9 0.0 63.2

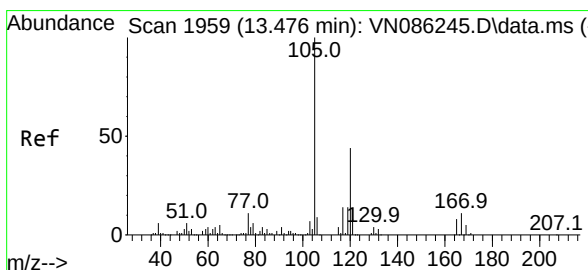
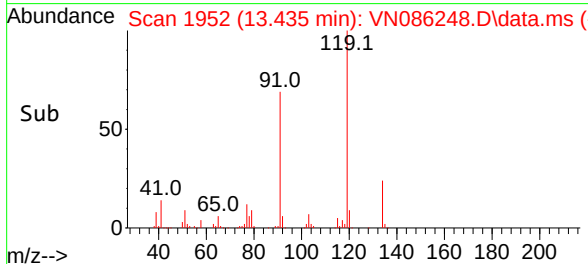
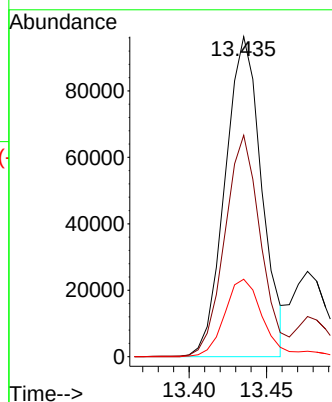
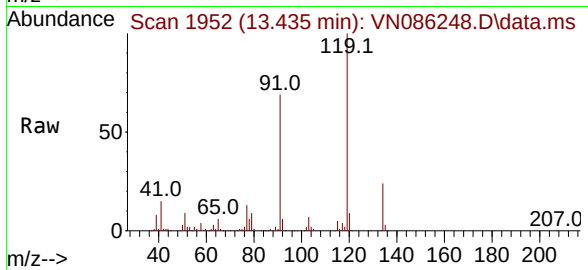




#79
tert-butylbenzene
Concen: 20.021 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

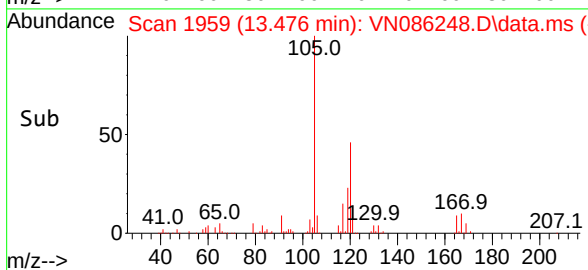
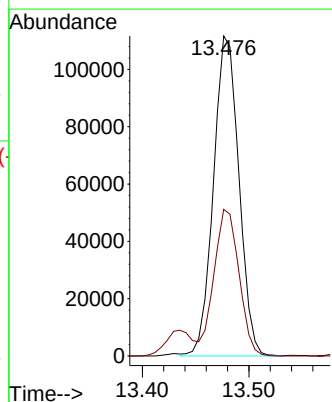
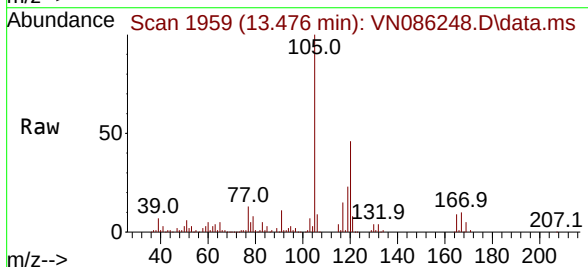
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

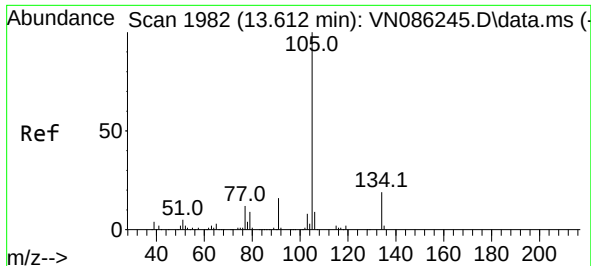
Tgt Ion:119 Resp: 158200
Ion Ratio Lower Upper
119 100
91 68.6 0.0 136.6
134 24.9 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 19.981 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:105 Resp: 185022
Ion Ratio Lower Upper
105 100
120 44.9 0.0 91.0

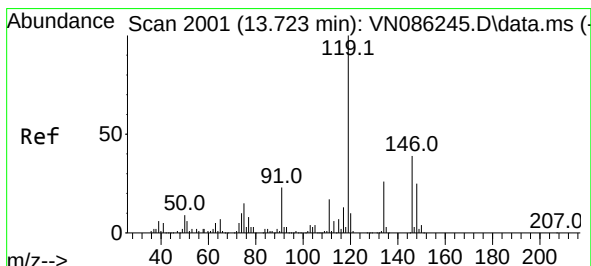
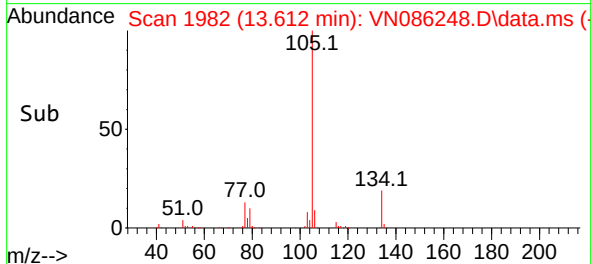
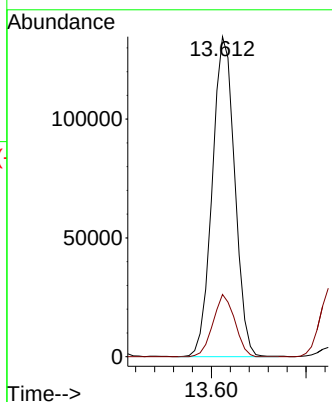
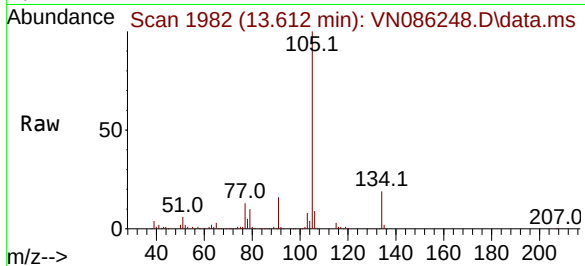




#81
 sec-Butylbenzene
 Concen: 20.145 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

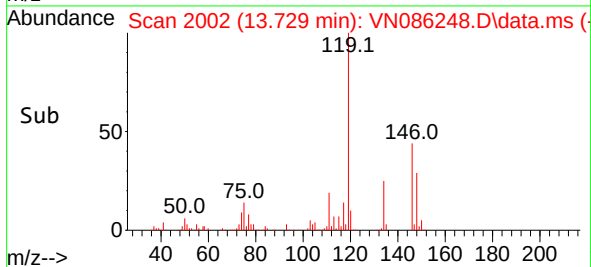
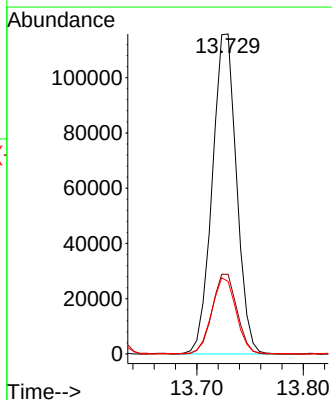
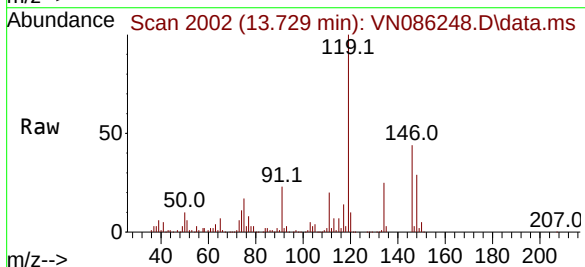
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

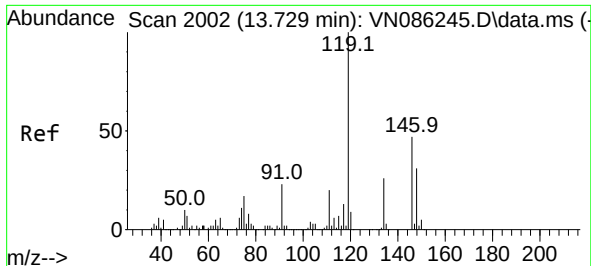
Tgt Ion:105 Resp: 222043
 Ion Ratio Lower Upper
 105 100
 134 18.9 0.0 38.6



#82
 p-Isopropyltoluene
 Concen: 19.959 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN086248.D
 Acq: 11 Apr 2025 13:34

Tgt Ion:119 Resp: 183515
 Ion Ratio Lower Upper
 119 100
 134 25.4 0.0 51.6
 91 24.1 0.0 48.2

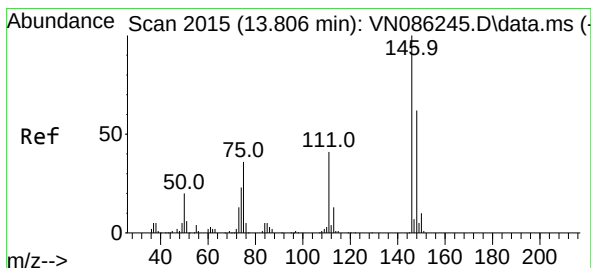
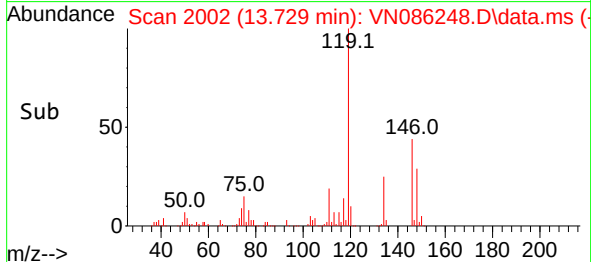
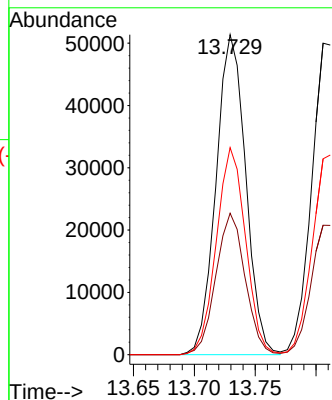
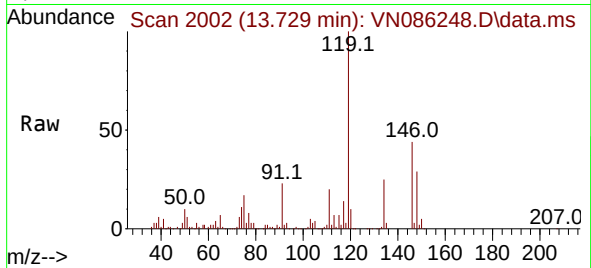




#83
1,3-Dichlorobenzene
Concen: 19.047 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

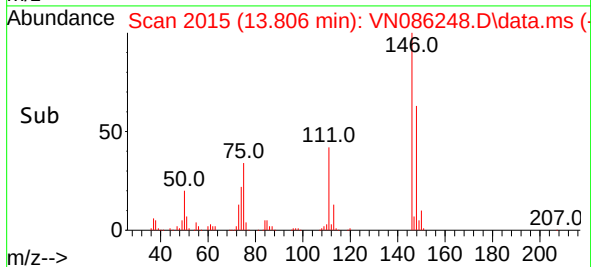
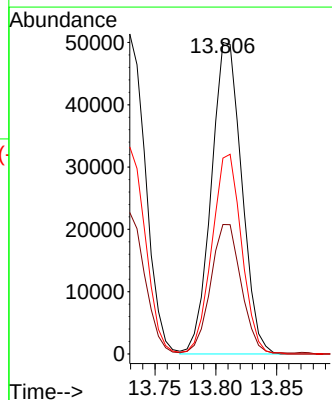
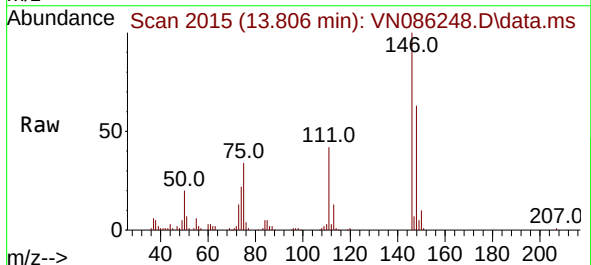
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

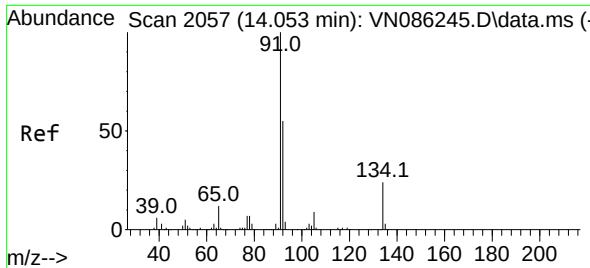
Tgt Ion:146 Resp: 87179
Ion Ratio Lower Upper
146 100
111 43.7 21.7 65.1
148 63.7 32.3 96.8



#84
1,4-Dichlorobenzene
Concen: 18.923 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:146 Resp: 86888
Ion Ratio Lower Upper
146 100
111 41.7 20.8 62.4
148 62.7 31.9 95.5

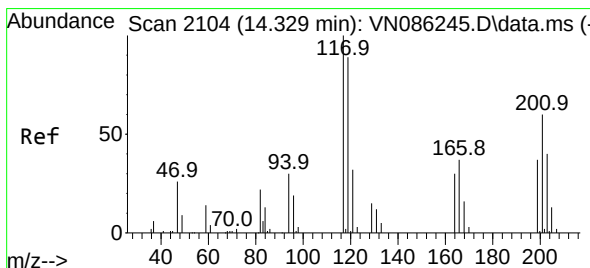
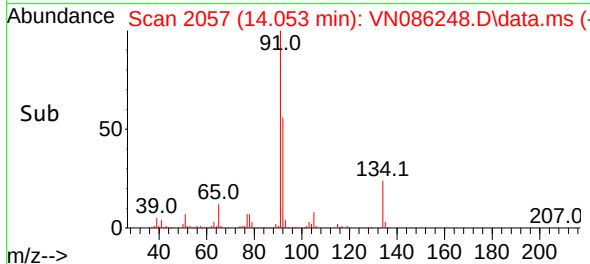
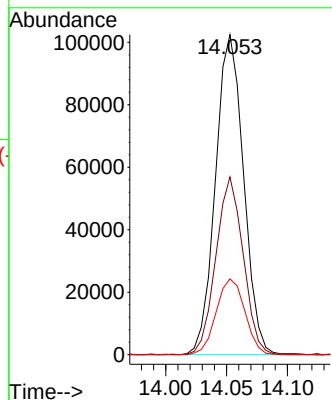
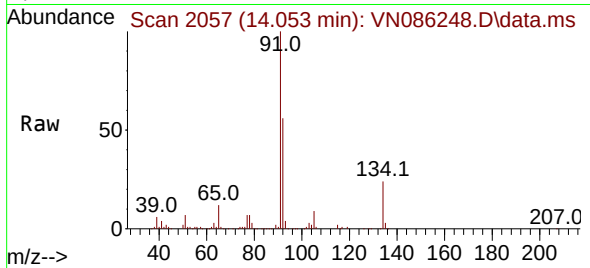




#85
n-Butylbenzene
Concen: 19.828 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

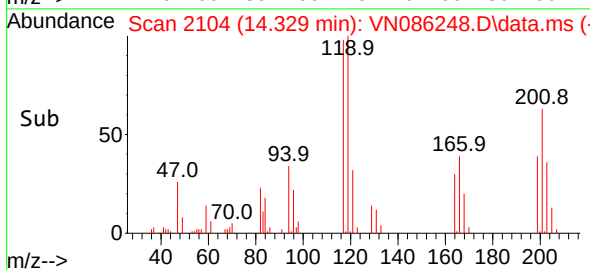
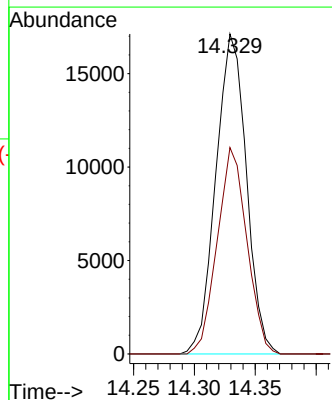
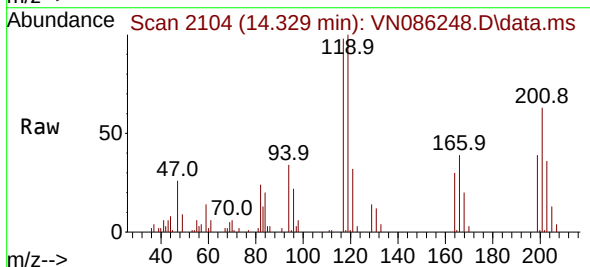
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

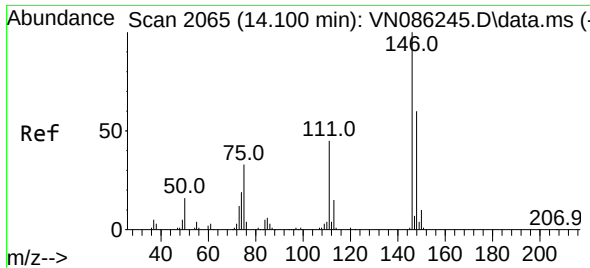
Tgt Ion: 91 Resp: 164471
Ion Ratio Lower Upper
91 100
92 53.9 0.0 109.4
134 24.1 0.0 48.2



#86
Hexachloroethane
Concen: 19.245 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 117 Resp: 29849
Ion Ratio Lower Upper
117 100
201 62.7 30.9 92.8

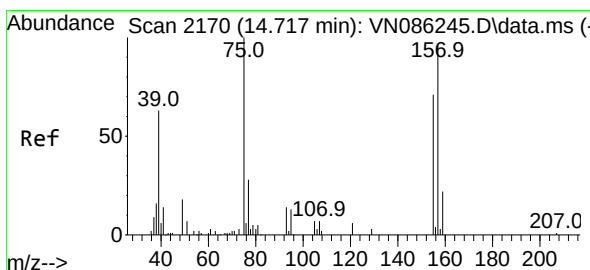
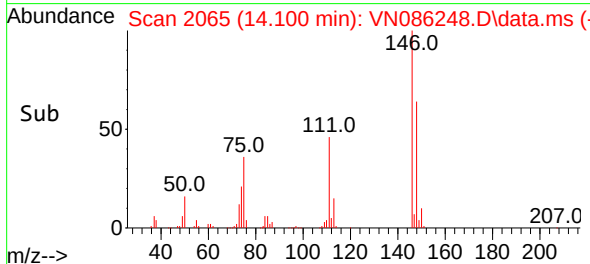
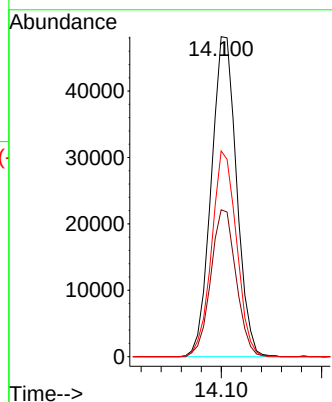
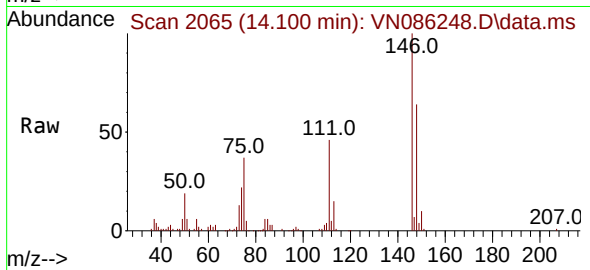




#87
1,2-Dichlorobenzene
Concen: 18.727 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

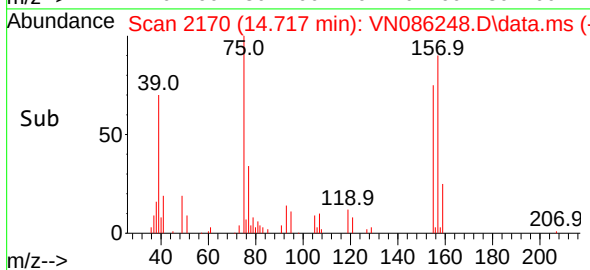
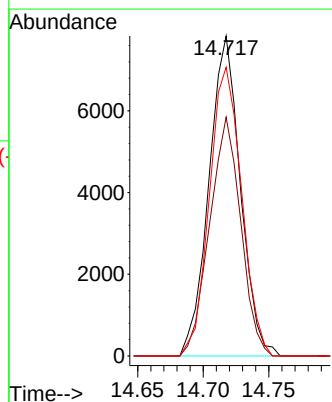
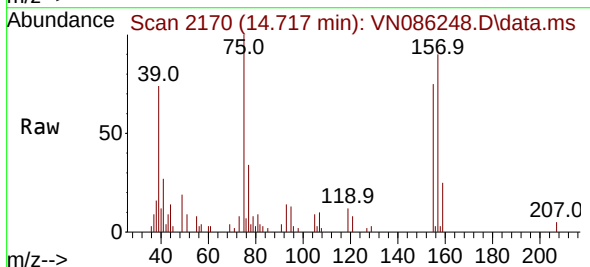
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

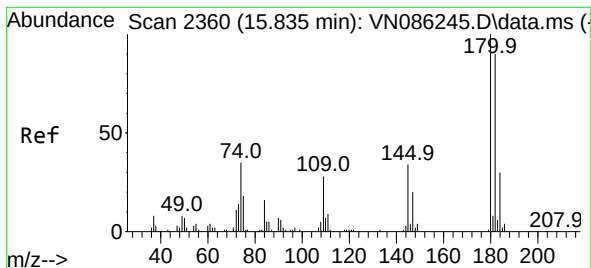
Tgt Ion:146 Resp: 84631
Ion Ratio Lower Upper
146 100
111 45.8 22.7 68.0
148 63.1 31.8 95.3



#88
1,2-Dibromo-3-Chloropropane
Concen: 18.109 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 75 Resp: 13051
Ion Ratio Lower Upper
75 100
155 73.8 60.3 90.5
157 92.5 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 18.826 ug/l

RT: 15.841 min Scan# 2360

Delta R.T. 0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

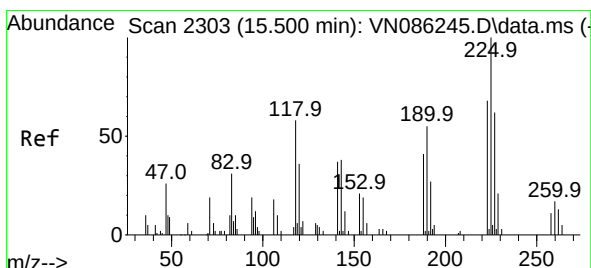
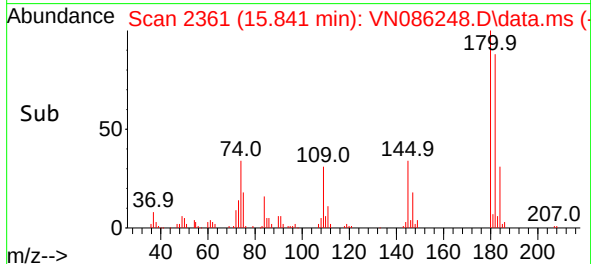
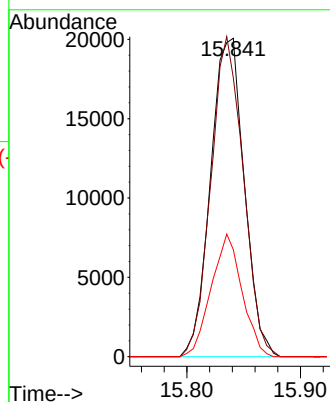
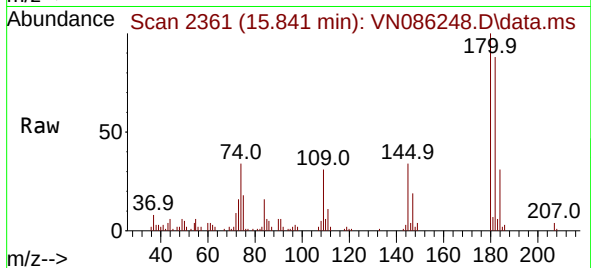
Tgt Ion:180 Resp: 41396

Ion Ratio Lower Upper

180 100

182 96.3 75.1 112.7

145 35.2 27.1 40.7



#90

Hexachlorobutadiene

Concen: 17.262 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

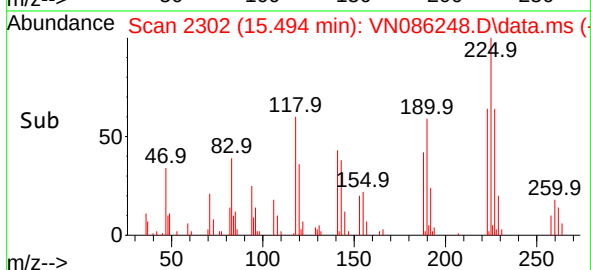
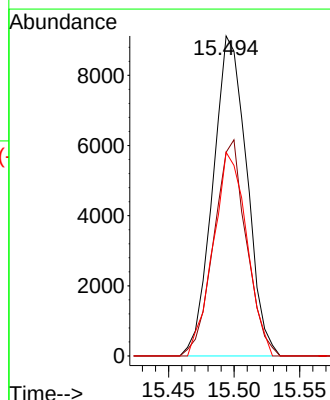
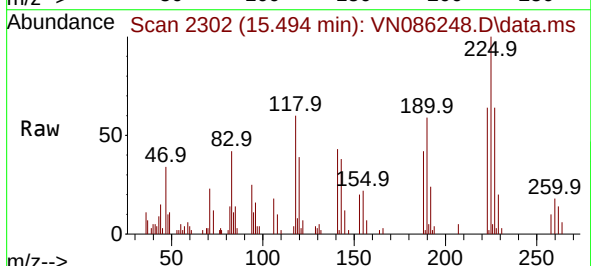
Tgt Ion:225 Resp: 16389

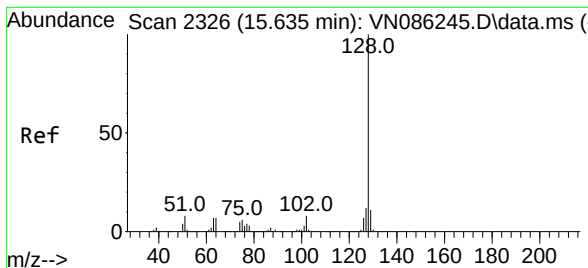
Ion Ratio Lower Upper

225 100

223 64.7 0.0 130.0

227 63.3 0.0 123.2

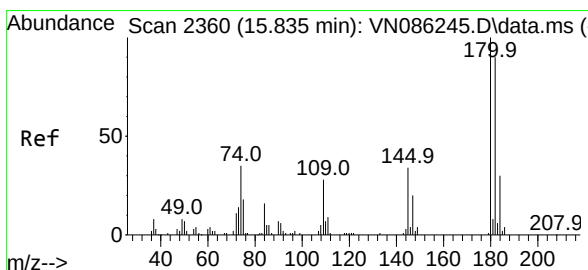
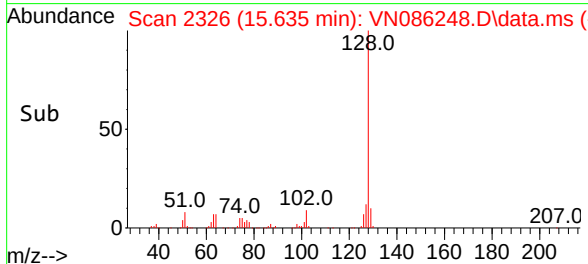
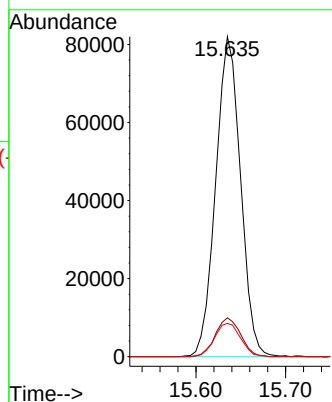
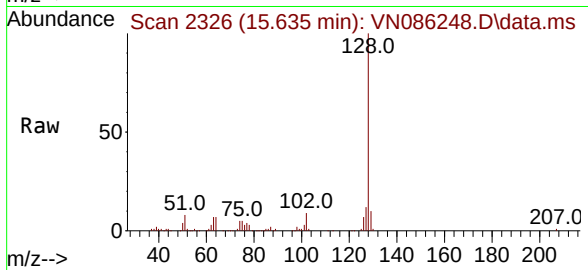




#91
Naphthalene
Concen: 18.155 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

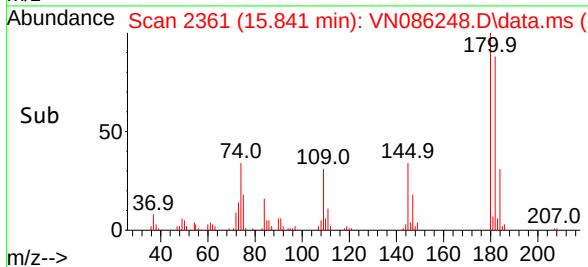
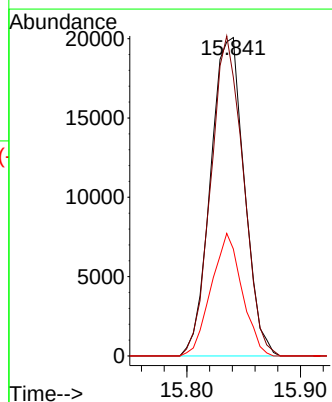
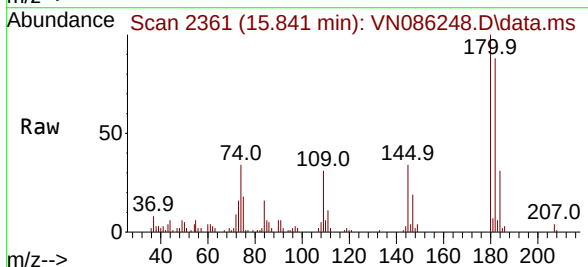
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:128 Resp: 157404
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.9 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 18.826 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:180 Resp: 41396
Ion Ratio Lower Upper
180 100
182 96.3 0.0 187.8
145 35.2 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086249.D
 Acq On : 11 Apr 2025 14:38
 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

Quant Time: Apr 12 01:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32103	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	201467	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	175632	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	95625	30.539	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.800%
60) 4-Bromofluorobenzene	12.847	95	104335	29.838	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.467%
63) Toluene-d8	10.565	98	300690	30.325	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	58287	22.661	ug/l	99
3) Chloromethane	2.359	50	76833	21.612	ug/l	99
4) Vinyl Chloride	2.518	62	72960	21.546	ug/l	100
5) Bromomethane	2.965	94	34468	20.406	ug/l	92
6) Chloroethane	3.124	64	45142	21.111	ug/l	99
7) Trichlorofluoromethane	3.501	101	78964	21.497	ug/l	98
8) Diethyl Ether	3.959	74	35948	21.221	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	49466	21.838	ug/l	99
10) 1,1-Dichloroethene	4.342	96	52323	21.404	ug/l	97
11) Methyl Iodide	4.589	142	59569	21.202	ug/l	99
12) Methyl Acetate	5.024	43	69220	20.052	ug/l	98
13) Acrolein	4.177	56	30590	77.958	ug/l	99
14) Acrylonitrile	5.712	53	145157	99.606	ug/l	98
15) Acetone	4.424	58	35289	95.503	ug/l	93
16) Carbon Disulfide	4.712	76	153034	21.832	ug/l	99
17) Allyl chloride	5.024	41	91394	21.451	ug/l	98
18) Methylene Chloride	5.277	84	59182	21.234	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	53765	20.881	ug/l	99
20) Diisopropyl ether	6.665	45	200652	21.906	ug/l	98
21) 1,1-Dichloroethane	6.565	63	106184	21.728	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	65736	21.431	ug/l	98
23) tert-Butyl Alcohol	5.506	59	57260	94.827	ug/l	# 100
24) Methyl tert-Butyl Ether	5.794	73	187291	21.230	ug/l	99
25) Chloroform	7.965	83	101051	21.684	ug/l	98
26) Cyclohexane	8.253	56	98792	21.608	ug/l	# 98
29) 1,1-Dichloropropene	8.371	75	75242	20.848	ug/l	98
30) 2-Butanone	7.477	43	193486	96.751	ug/l	99
31) 2,2-Dichloropropane	7.488	77	93697	21.091	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	85736	20.651	ug/l	99
33) Carbon Tetrachloride	8.359	117	69324	20.895	ug/l	97
34) Benzene	8.600	78	240800	20.972	ug/l	95
35) Methacrylonitrile	7.777	41	44549	19.760	ug/l	96
36) 1,2-Dichloroethane	8.665	62	75064	20.892	ug/l	99
37) Trichloroethene	9.347	130	55823	20.150	ug/l	92
38) Methylcyclohexane	9.594	83	92449	20.887	ug/l	99
39) 1,2-Dichloropropane	9.618	63	59643	20.876	ug/l	97
40) Dibromomethane	9.706	93	36945	20.021	ug/l	99
41) Bromodichloromethane	9.882	83	81655	20.598	ug/l	99
42) Vinyl Acetate	6.594	43	723573	106.292	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086249.D
 Acq On : 11 Apr 2025 14:38
 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

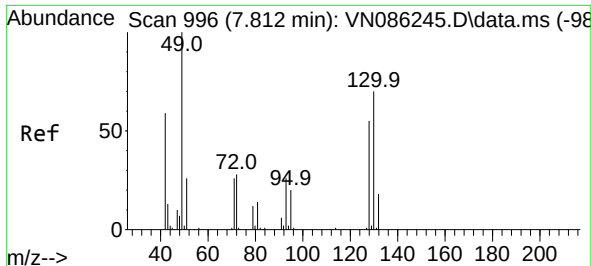
Quant Time: Apr 12 01:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	77965	19.328	ug/l	98
44) Isopropyl Acetate	8.683	43	150010	20.046	ug/l	99
45) 1,4-Dioxane	9.688	88	21831	366.878	ug/l #	93
46) Methyl methacrylate	9.677	41	66579	20.193	ug/l	99
47) n-amyl Acetate	12.488	43	118327	19.943	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	92056	20.541	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	98100	20.682	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	52750	20.382	ug/l	98
51) Ethyl methacrylate	10.871	69	97258	20.222	ug/l	98
52) 1,3-Dichloropropane	11.159	76	96585	20.938	ug/l	100
53) Dibromochloromethane	11.353	129	57663	20.369	ug/l	98
54) 1,2-Dibromoethane	11.465	107	52283	20.012	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	182299	100.309	ug/l	100
56) Bromoform	12.576	173	36790	19.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	405618	101.770	ug/l	100
59) 2-Hexanone	11.194	43	298673	100.637	ug/l	100
61) Tetrachloroethene	11.100	164	54335	20.949	ug/l	98
62) Toluene	10.624	91	251566	21.355	ug/l	100
64) Chlorobenzene	11.888	112	148243	20.597	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	50696	21.344	ug/l	100
66) Ethyl Benzene	11.959	91	273823	20.960	ug/l	98
67) m/p-Xylenes	12.065	106	202596	41.705	ug/l	98
68) o-Xylene	12.394	106	100957	21.129	ug/l	99
69) Styrene	12.406	104	168655	20.929	ug/l	99
70) Isopropylbenzene	12.694	105	249762	21.200	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	69753	20.801	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	103838	29.748	ug/l	61
73) Bromobenzene	12.976	156	53692	20.572	ug/l	98
74) n-propylbenzene	13.029	91	295354	21.231	ug/l	99
75) 2-Chlorotoluene	13.123	91	183287	20.961	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	206643	21.352	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	31266	19.426	ug/l	94
78) 4-Chlorotoluene	13.218	91	179801	20.589	ug/l	99
79) tert-butylbenzene	13.435	119	173459	20.714	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	203945	20.782	ug/l	99
81) sec-Butylbenzene	13.612	105	249442	21.354	ug/l	99
82) p-Isopropyltoluene	13.723	119	207519	21.296	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	98830	20.374	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	99189	20.383	ug/l	99
85) n-Butylbenzene	14.053	91	191298	21.761	ug/l	99
86) Hexachloroethane	14.329	117	33590	20.435	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	95565	19.953	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.712	75	14160	18.539	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	45993	19.736	ug/l	99
90) Hexachlorobutadiene	15.494	225	19273	19.154	ug/l	96
91) Naphthalene	15.635	128	169515	18.449	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	45993	19.736	ug/l	99

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

Quant Time: Apr 12 01:48:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

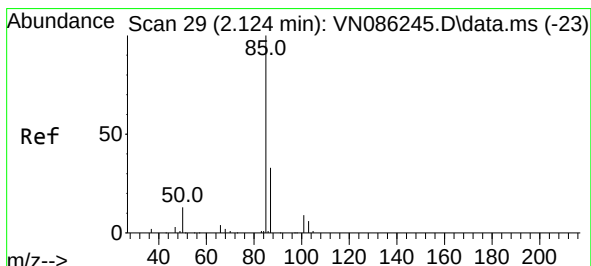
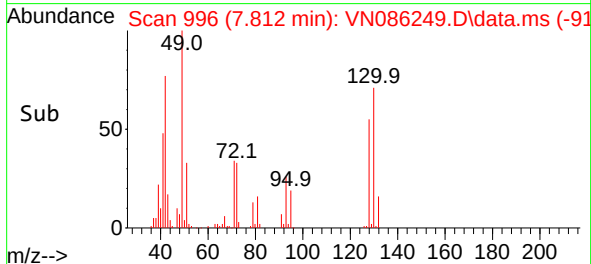
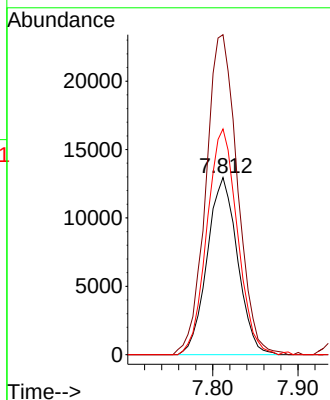
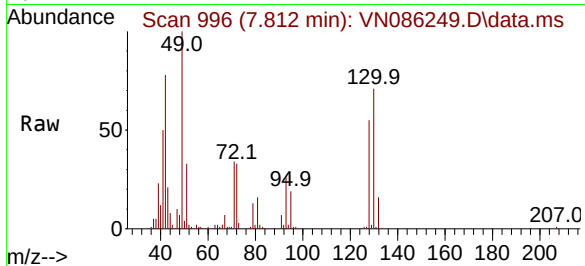




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

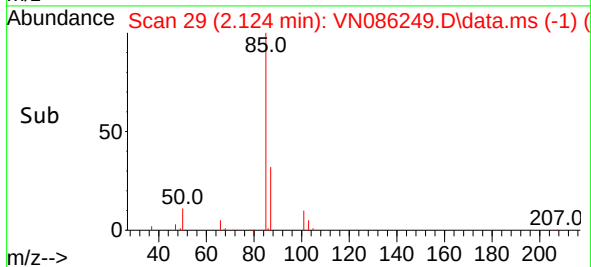
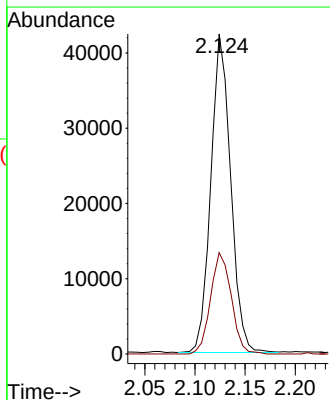
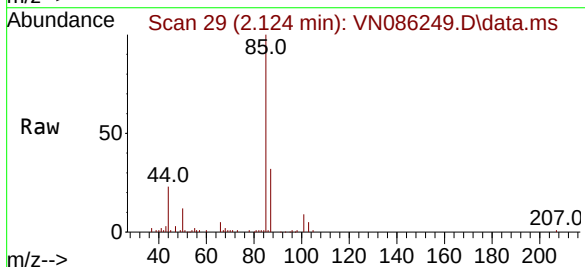
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

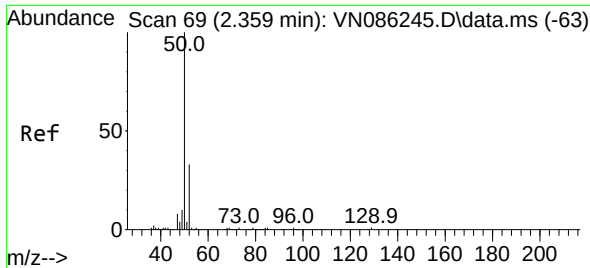
Tgt Ion:128 Resp: 32103
Ion Ratio Lower Upper
128 100
49 187.6 0.0 452.5
130 127.9 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 22.661 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 85 Resp: 58287
Ion Ratio Lower Upper
85 100
87 31.8 16.3 48.9

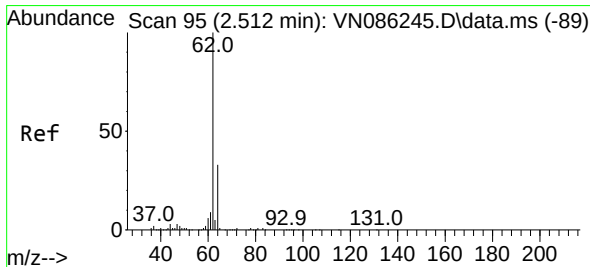
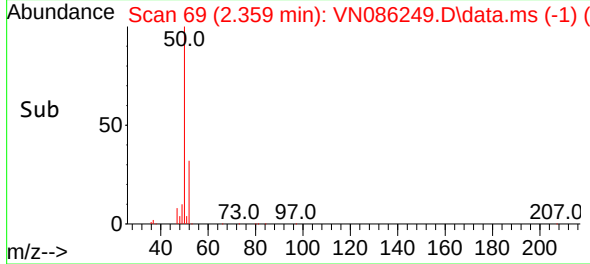
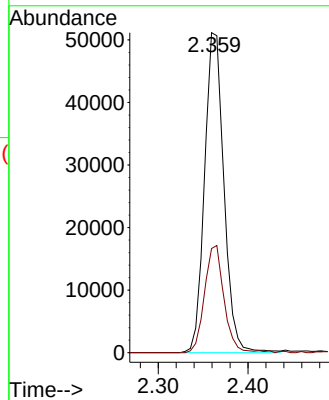
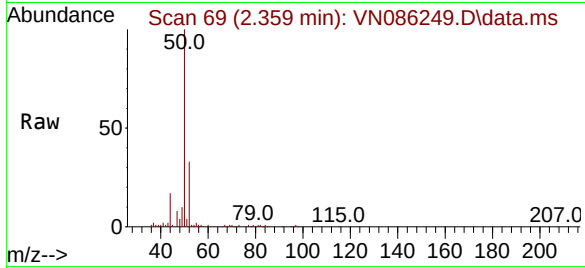




#3
Chloromethane
Concen: 21.612 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

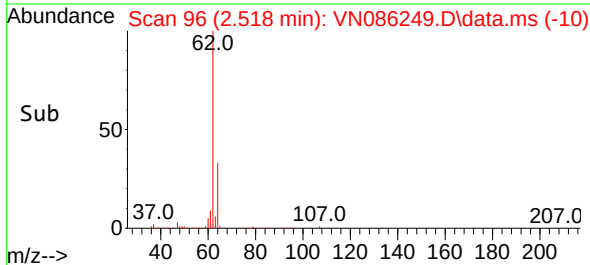
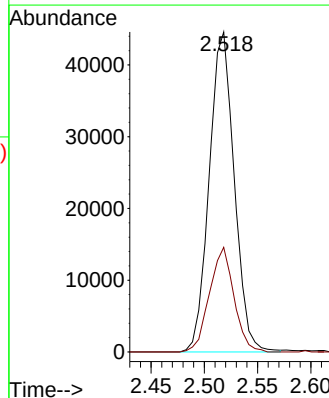
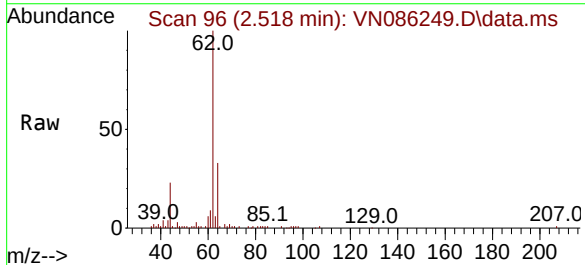
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

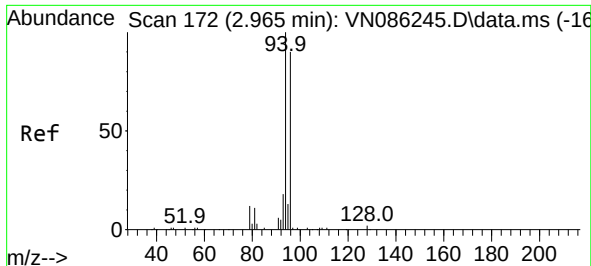
Tgt Ion: 50 Resp: 76833
Ion Ratio Lower Upper
50 100
52 32.5 26.4 39.6



#4
Vinyl Chloride
Concen: 21.546 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 62 Resp: 72960
Ion Ratio Lower Upper
62 100
64 32.7 26.3 39.5

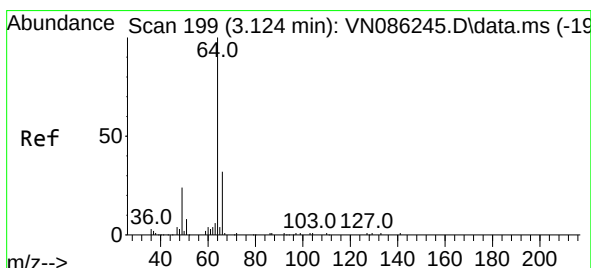
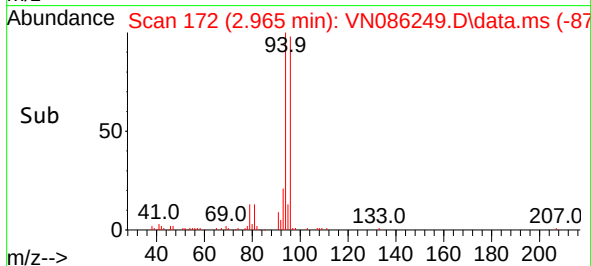
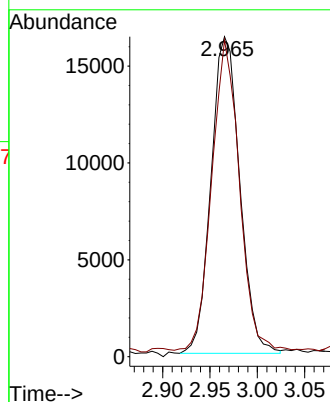
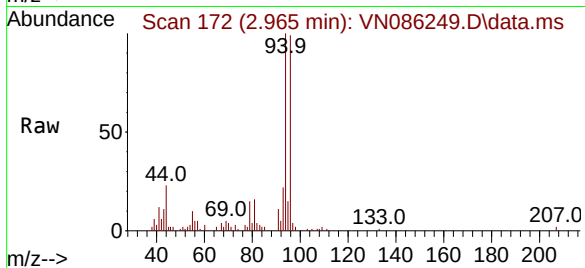




#5
Bromomethane
Concen: 20.406 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

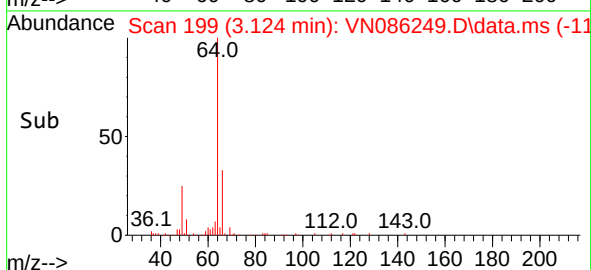
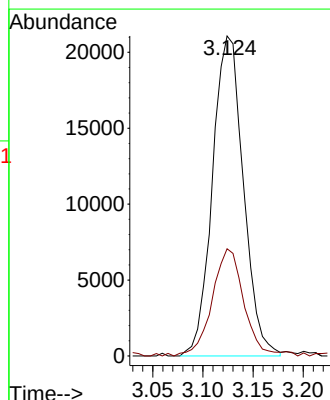
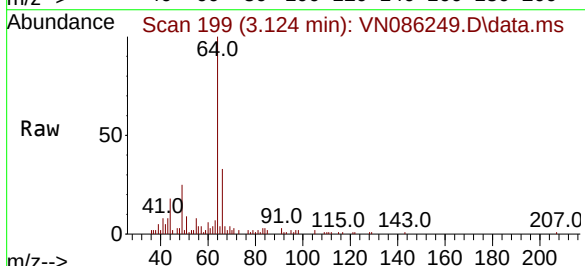
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

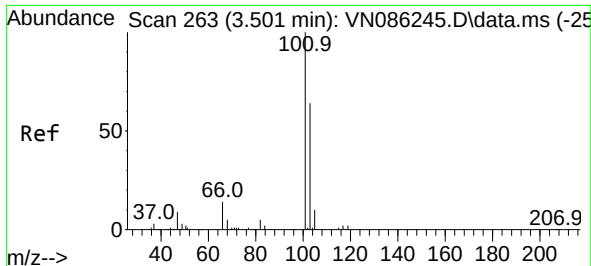
Tgt Ion: 94 Resp: 34468
Ion Ratio Lower Upper
94 100
96 97.5 72.2 108.2



#6
Chloroethane
Concen: 21.111 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 64 Resp: 45142
Ion Ratio Lower Upper
64 100
66 32.7 25.7 38.5

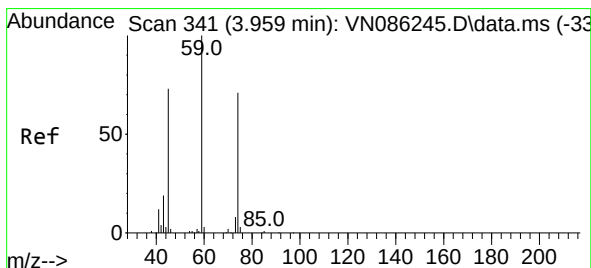
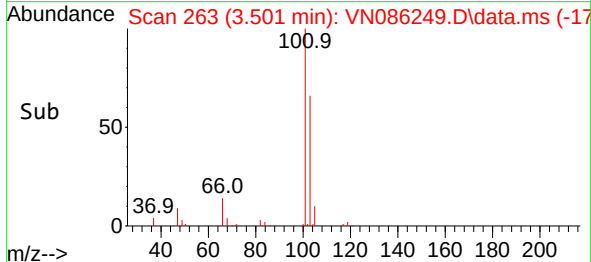
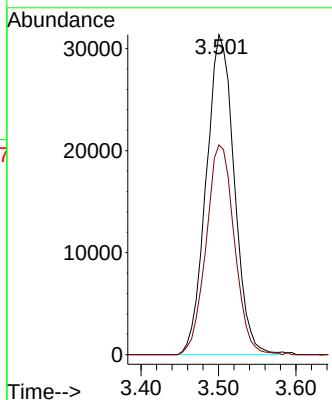
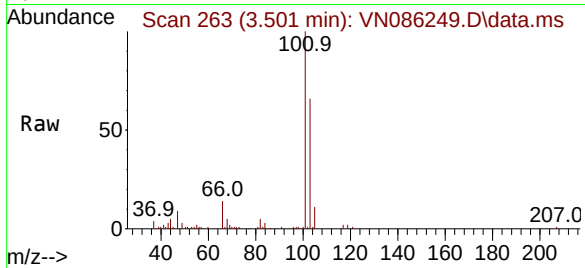




#7
 Trichlorofluoromethane
 Concen: 21.497 ug/l
 RT: 3.501 min Scan# 263
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

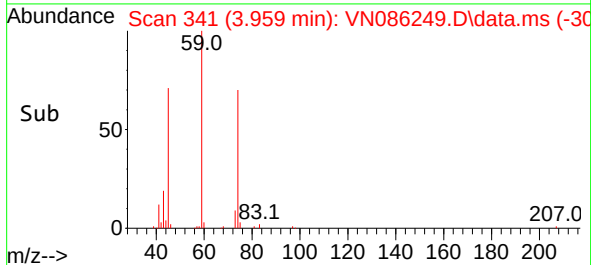
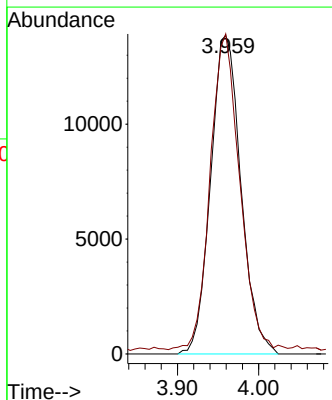
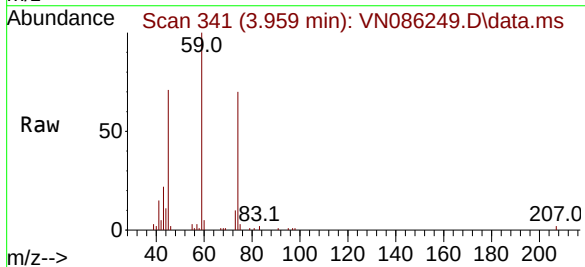
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

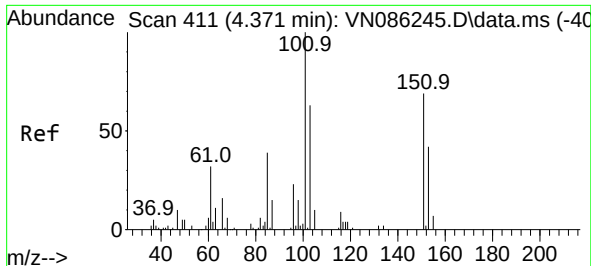
Tgt Ion:101 Resp: 78964
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.2 76.8



#8
 Diethyl Ether
 Concen: 21.221 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion: 74 Resp: 35948
 Ion Ratio Lower Upper
 74 100
 45 95.7 19.2 173.2

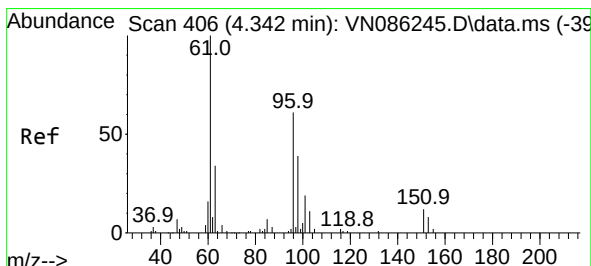
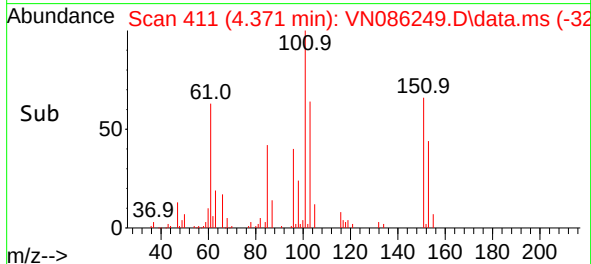
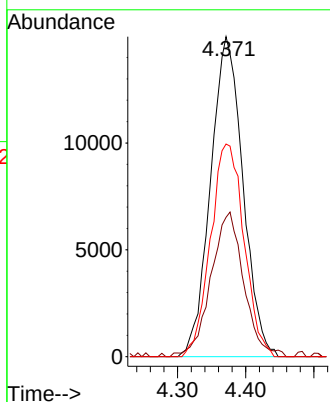
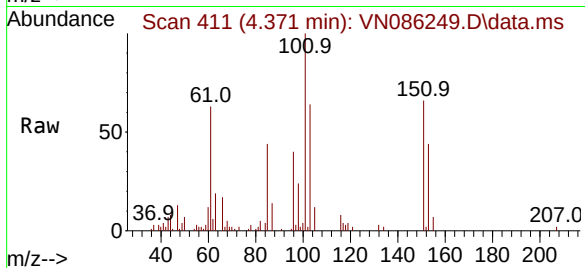




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 21.838 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

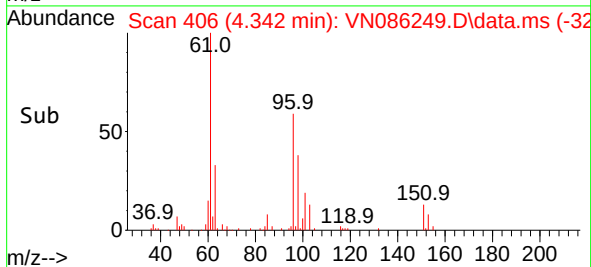
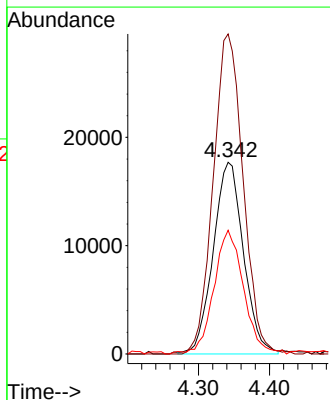
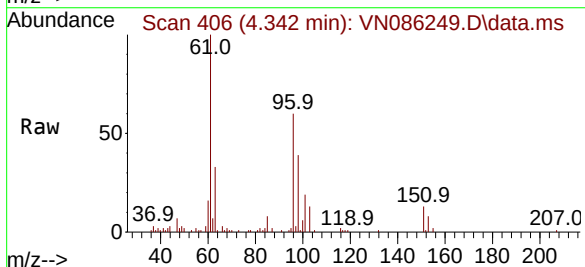
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

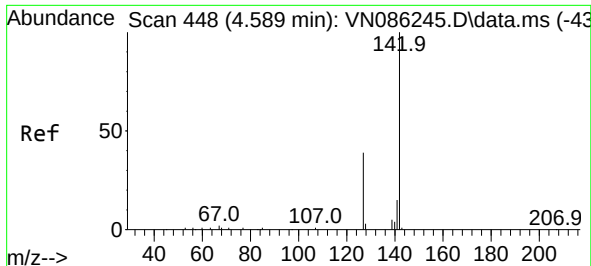
Tgt Ion:101 Resp: 49466
 Ion Ratio Lower Upper
 101 100
 85 45.1 0.0 93.0
 151 68.6 0.0 138.6



#10
 1,1-Dichloroethene
 Concen: 21.404 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion: 96 Resp: 52323
 Ion Ratio Lower Upper
 96 100
 61 168.3 131.1 196.7
 98 63.8 51.6 77.4

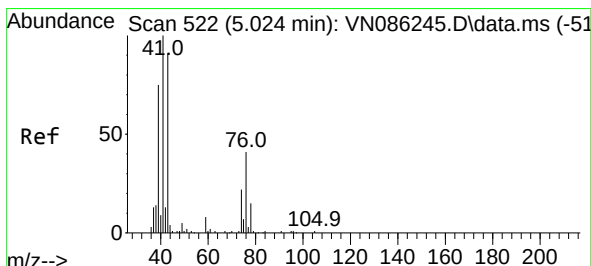
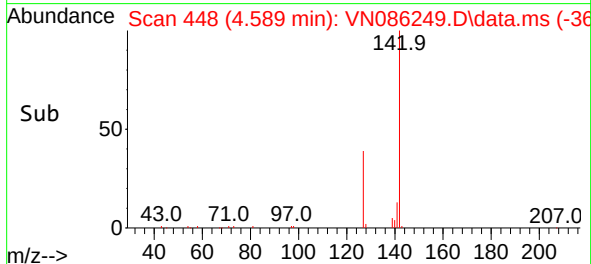
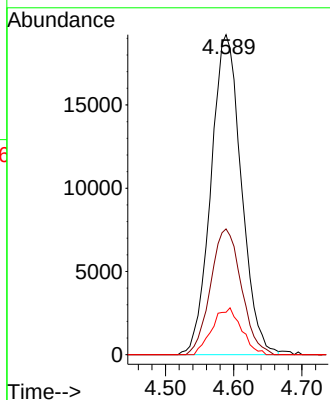
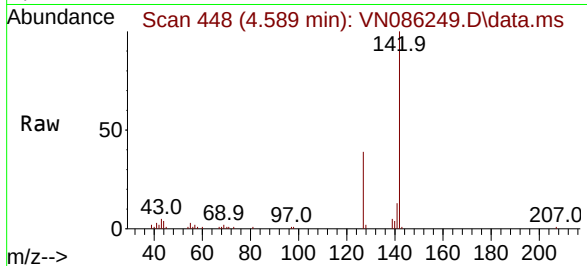




#11
Methyl Iodide
Concen: 21.202 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

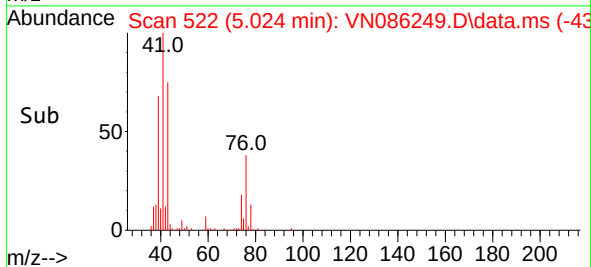
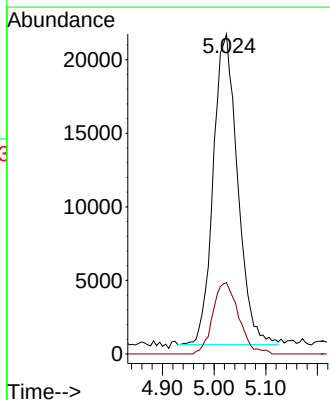
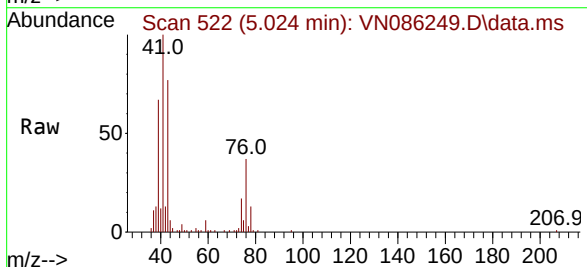
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

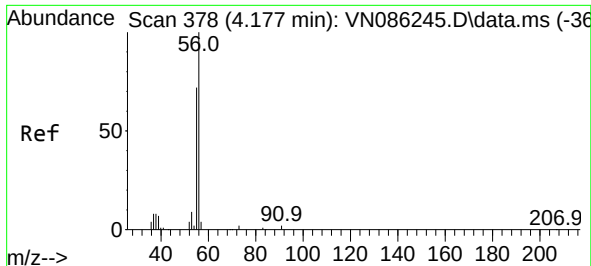
Tgt Ion:142 Resp: 59569
Ion Ratio Lower Upper
142 100
127 39.5 19.6 58.8
141 13.3 7.3 21.9



#12
Methyl Acetate
Concen: 20.052 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 43 Resp: 69220
Ion Ratio Lower Upper
43 100
74 23.1 19.1 28.7





#13

Acrolein

Concen: 77.958 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

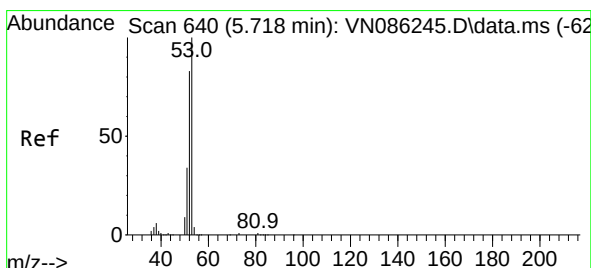
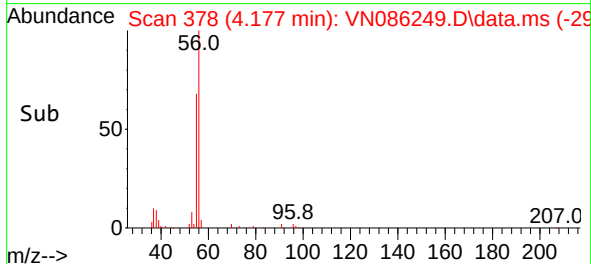
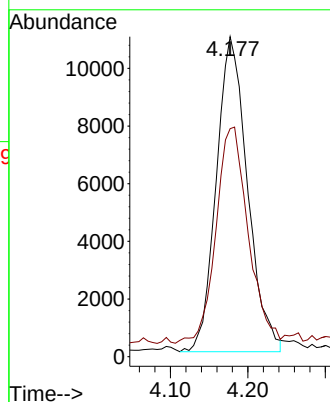
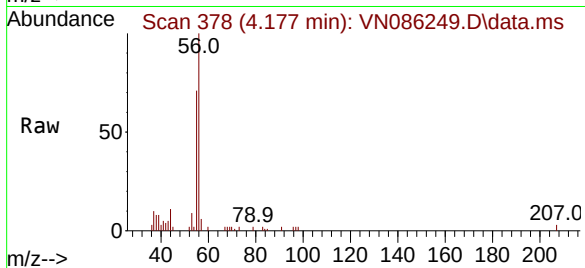
VN0411WBS01

Tgt Ion: 56 Resp: 30590

Ion Ratio Lower Upper

56 100

55 70.1 56.5 84.7



#14

Acrylonitrile

Concen: 99.606 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

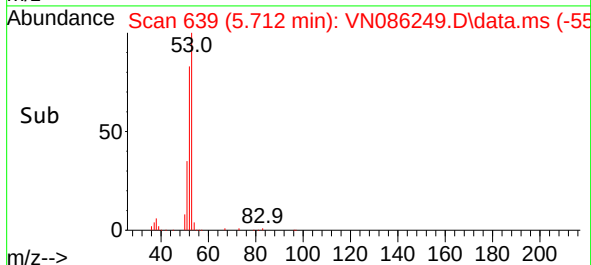
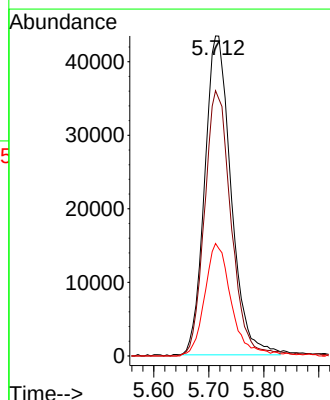
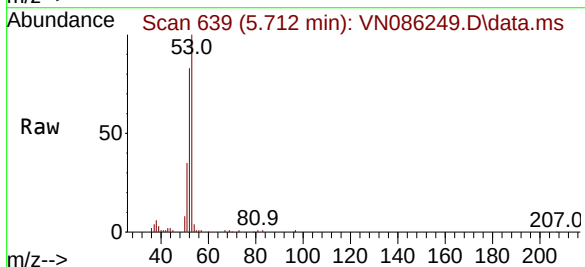
Tgt Ion: 53 Resp: 145157

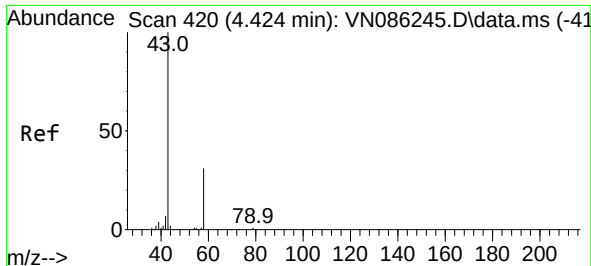
Ion Ratio Lower Upper

53 100

52 83.4 40.2 120.6

51 35.0 17.5 52.6

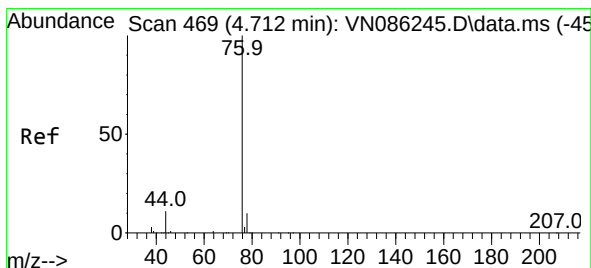
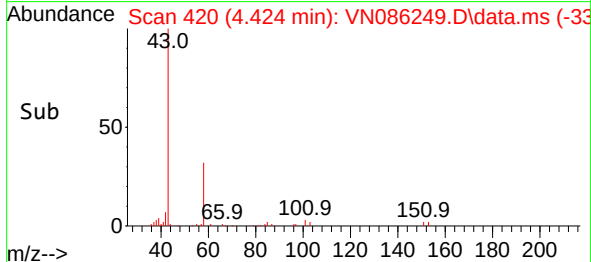
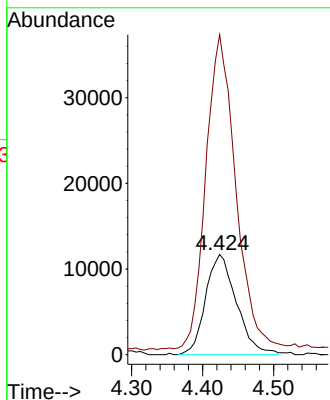
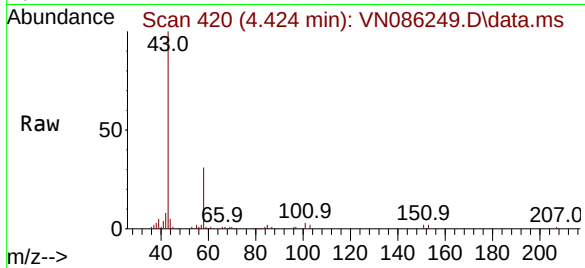




#15
Acetone
Concen: 95.503 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

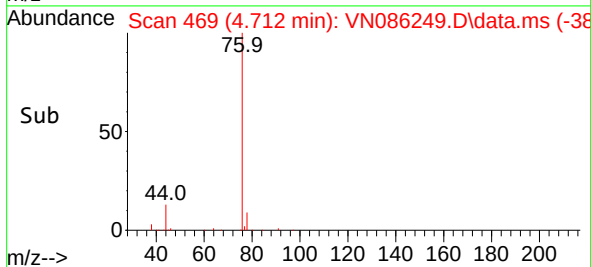
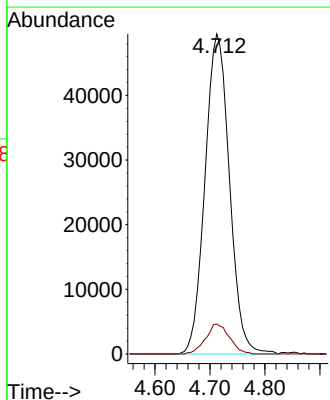
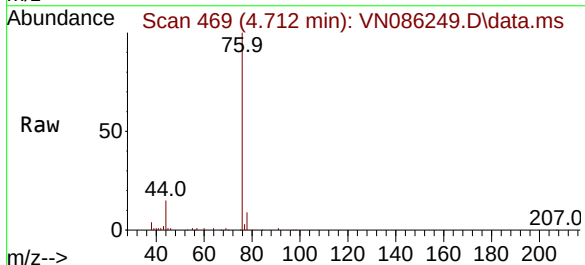
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

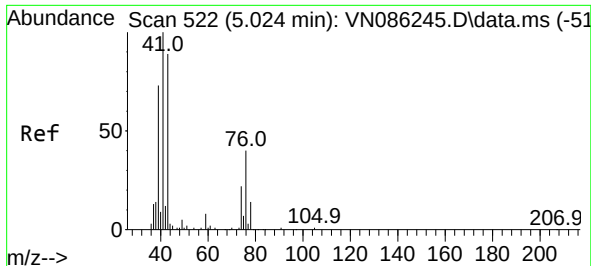
Tgt Ion: 58 Resp: 35289
Ion Ratio Lower Upper
58 100
43 313.0 261.8 392.8



#16
Carbon Disulfide
Concen: 21.832 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 76 Resp: 153034
Ion Ratio Lower Upper
76 100
78 9.4 7.7 11.5

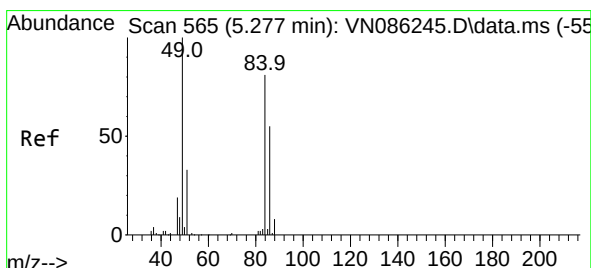
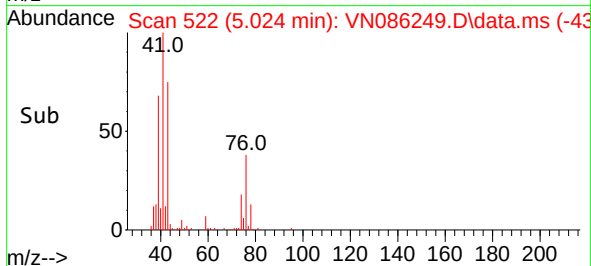
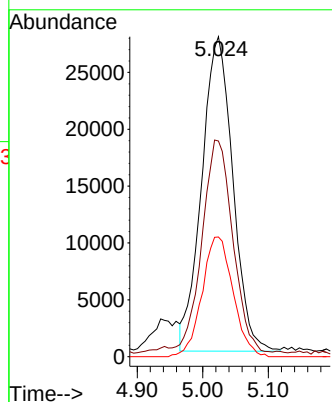
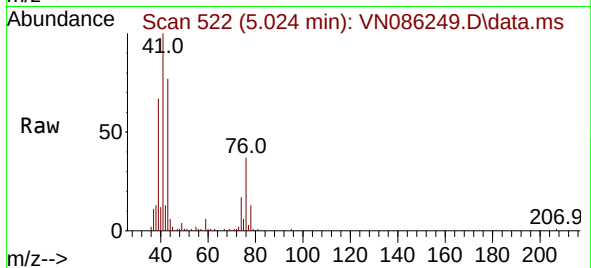




#17
 Allyl chloride
 Concen: 21.451 ug/l
 RT: 5.024 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

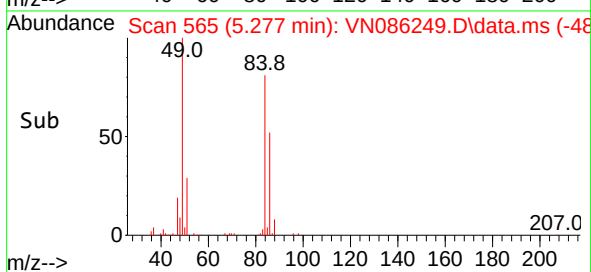
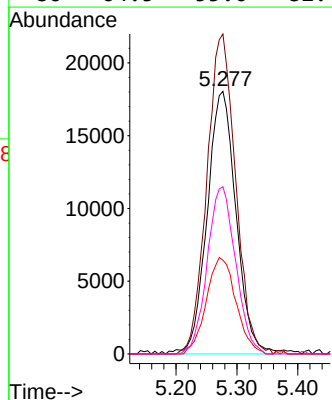
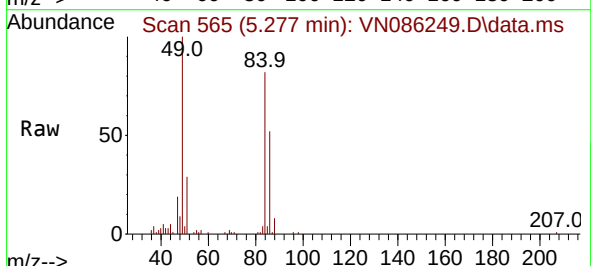
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

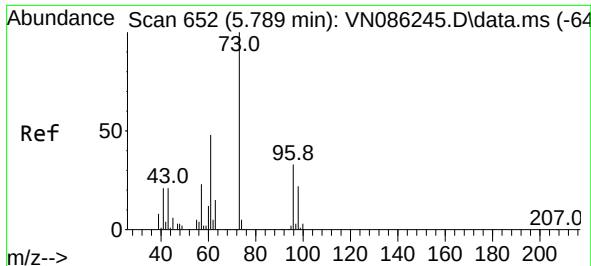
Tgt Ion:	41	Resp:	91394
Ion	Ratio	Lower	Upper
41	100		
39	67.2	34.4	103.2
76	38.3	18.8	56.3



#18
 Methylene Chloride
 Concen: 21.234 ug/l
 RT: 5.277 min Scan# 565
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion:	84	Resp:	59182
Ion	Ratio	Lower	Upper
84	100		
49	122.3	99.1	148.7
51	36.1	32.3	48.5
86	64.5	55.0	82.4

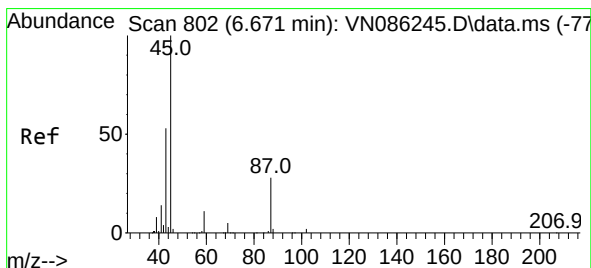
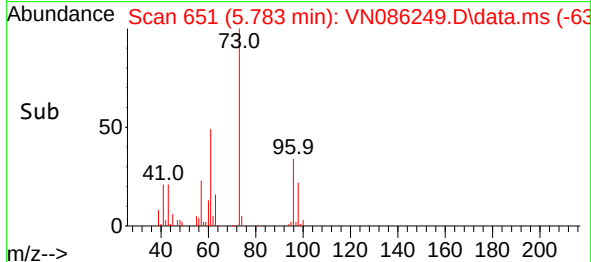
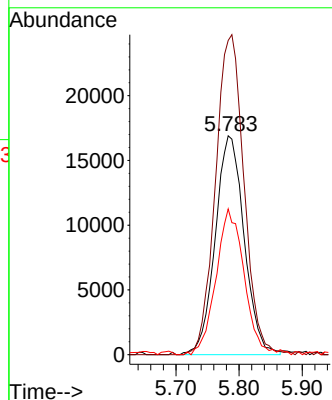
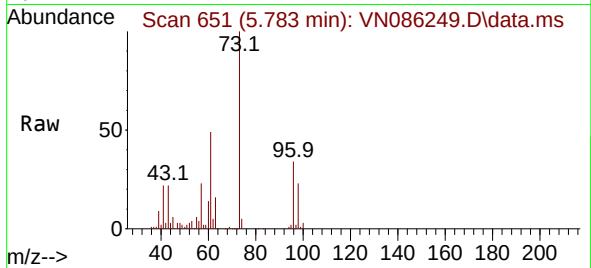




#19
trans-1,2-Dichloroethene
Concen: 20.881 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

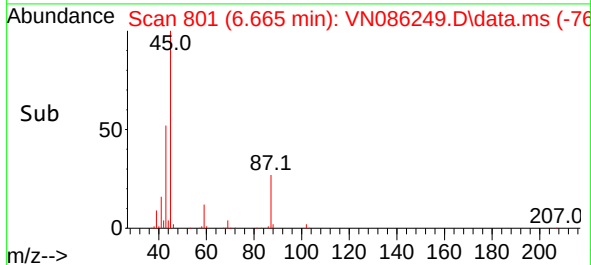
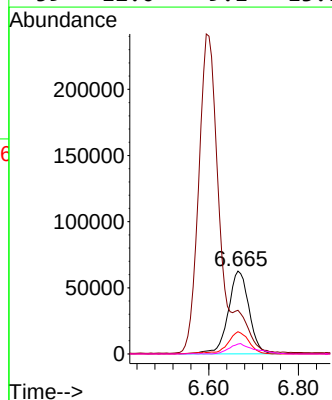
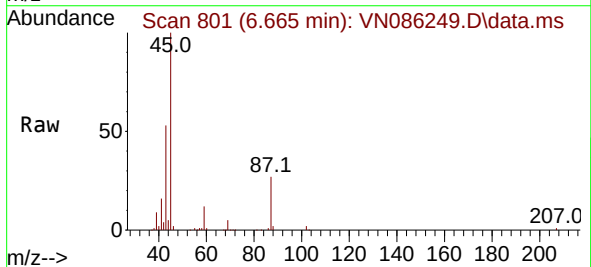
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

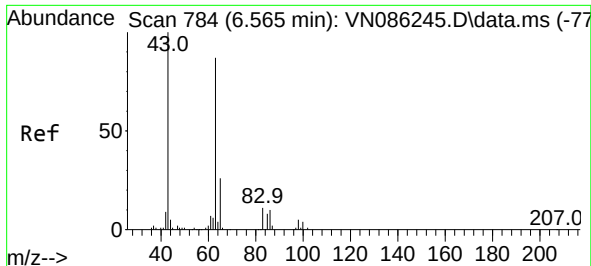
Tgt Ion: 96 Resp: 53765
Ion Ratio Lower Upper
96 100
61 143.6 115.9 173.9
98 66.6 52.1 78.1



#20
Diisopropyl ether
Concen: 21.906 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 45 Resp: 200652
Ion Ratio Lower Upper
45 100
43 51.0 42.3 63.5
87 27.0 22.2 33.4
59 12.0 9.1 13.7





#21

1,1-Dichloroethane

Concen: 21.728 ug/l

RT: 6.565 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

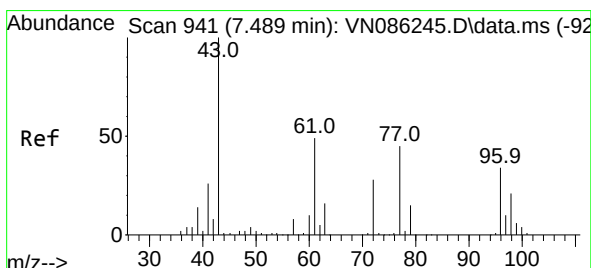
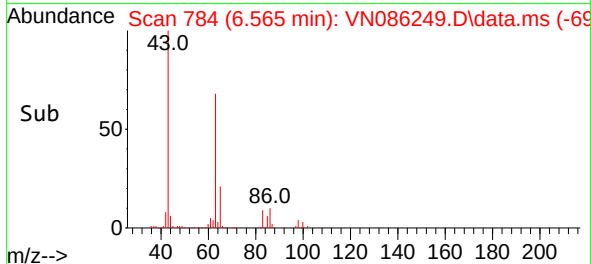
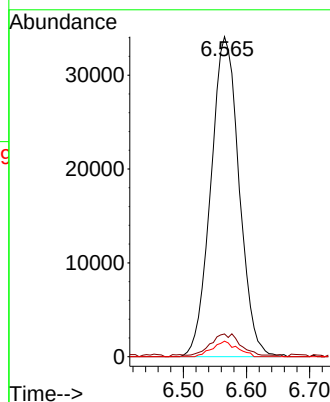
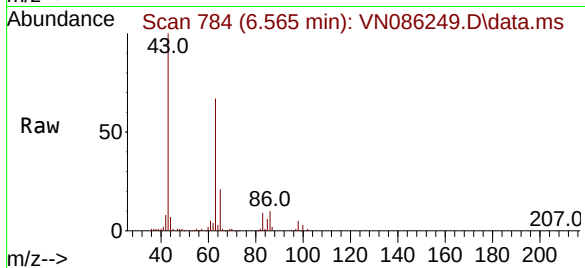
Tgt Ion: 63 Resp: 106184

Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.3

100 4.9 2.3 6.9



#22

cis-1,2-Dichloroethene

Concen: 21.431 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

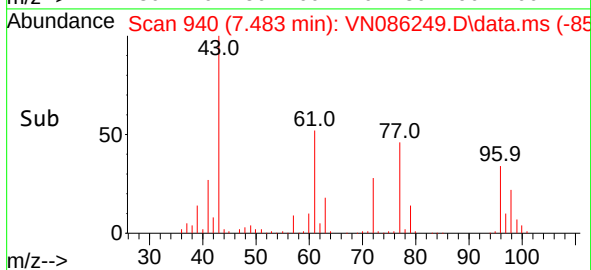
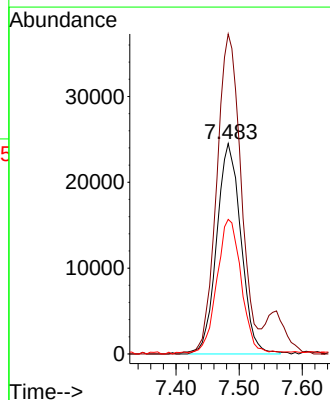
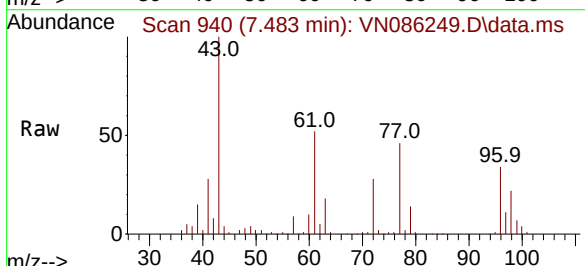
Tgt Ion: 96 Resp: 65736

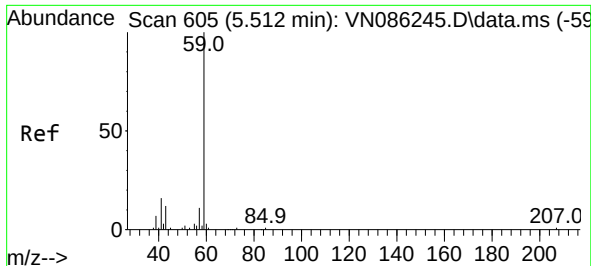
Ion Ratio Lower Upper

96 100

61 152.3 119.5 179.3

98 64.7 51.0 76.6

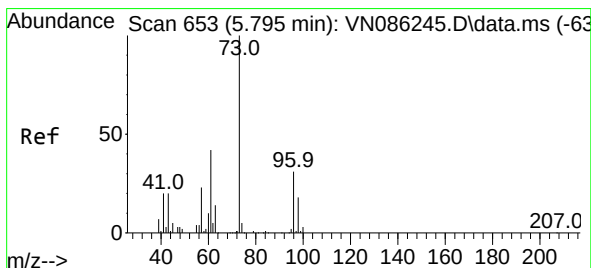
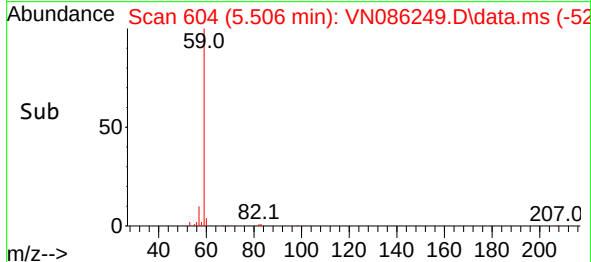
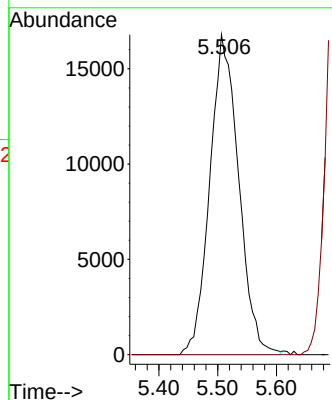
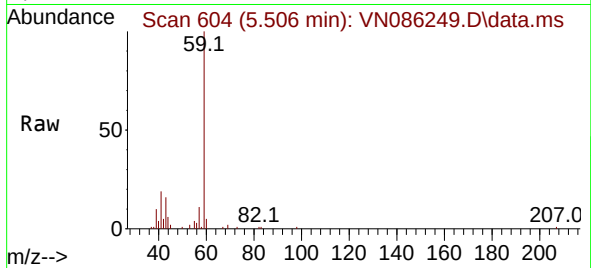




#23
tert-Butyl Alcohol
Concen: 94.827 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

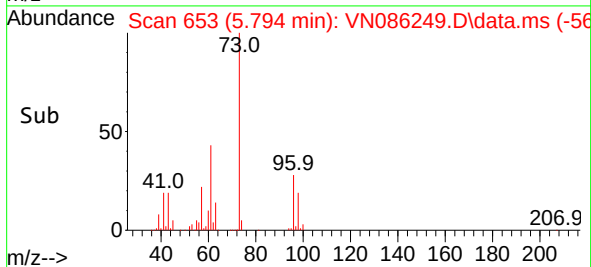
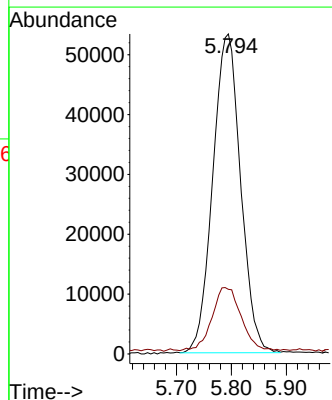
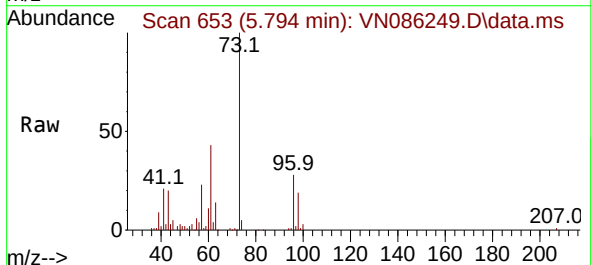
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

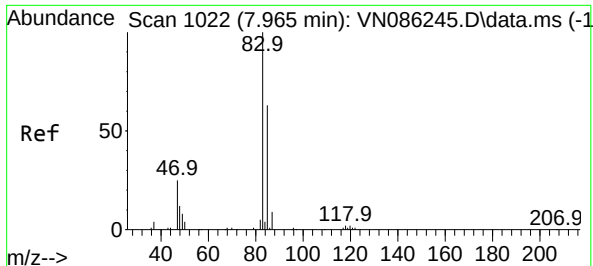
Tgt Ion: 59 Resp: 57260
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 21.230 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 73 Resp: 187291
Ion Ratio Lower Upper
73 100
43 20.4 16.8 25.2





#25

Chloroform

Concen: 21.684 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

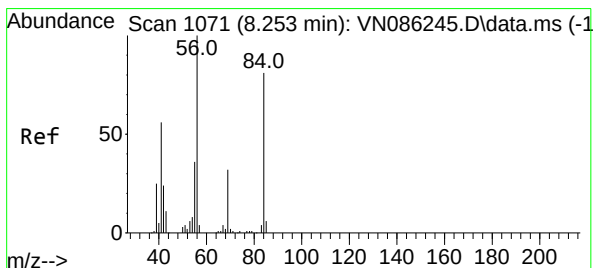
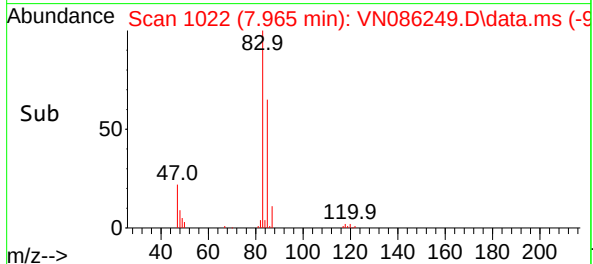
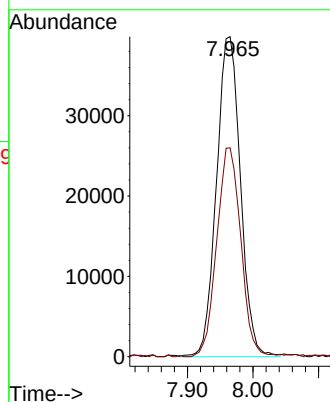
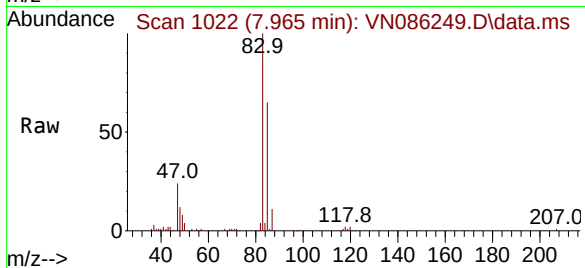
VN0411WBS01

Tgt Ion: 83 Resp: 101051

Ion Ratio Lower Upper

83 100

85 64.8 50.5 75.7



#26

Cyclohexane

Concen: 21.608 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

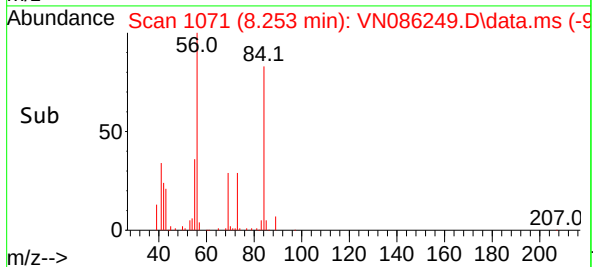
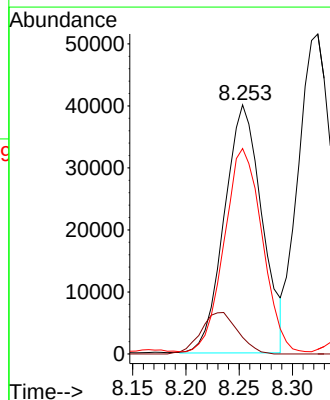
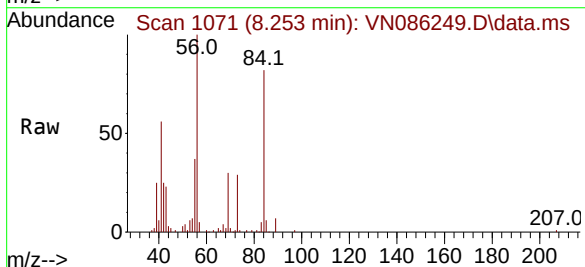
Tgt Ion: 56 Resp: 98792

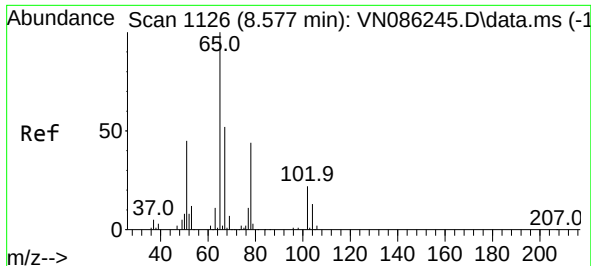
Ion Ratio Lower Upper

56 100

89 16.4 0.0 0.0#

84 84.4 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 30.539 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

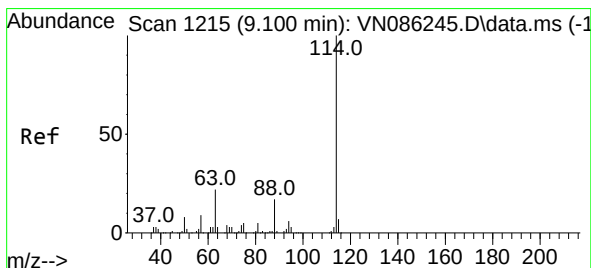
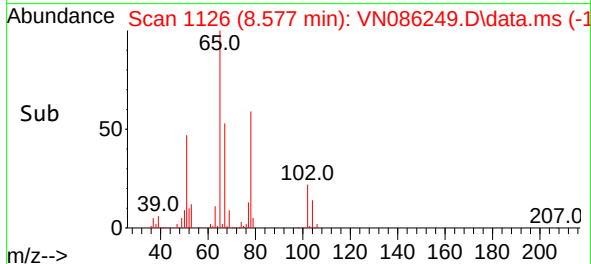
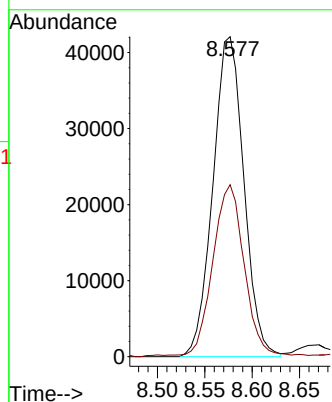
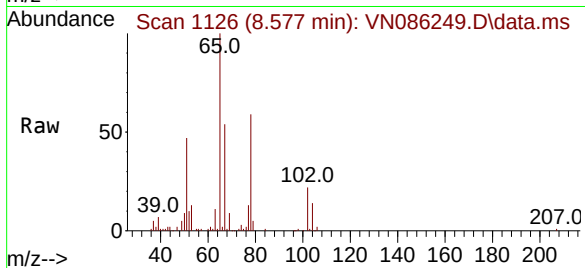
VN0411WBS01

Tgt Ion: 65 Resp: 95625

Ion Ratio Lower Upper

65 100

67 54.6 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

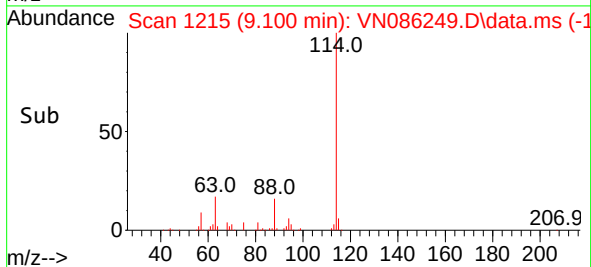
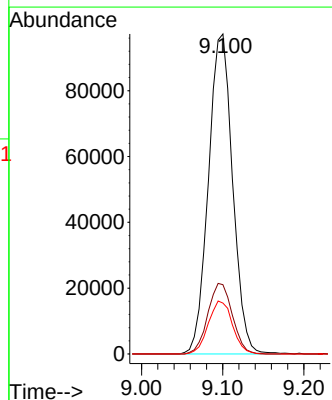
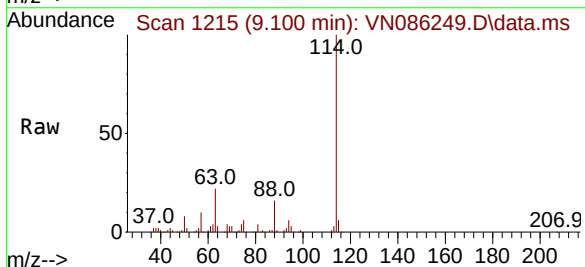
Tgt Ion: 114 Resp: 201467

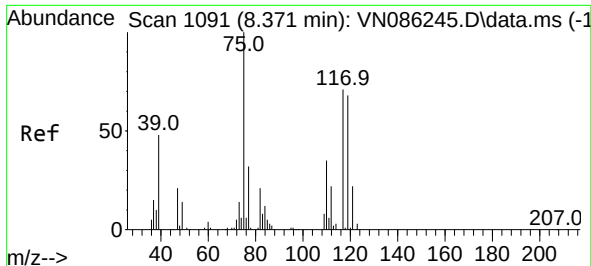
Ion Ratio Lower Upper

114 100

63 22.3 17.8 26.6

88 16.5 13.4 20.2





#29

1,1-Dichloropropene

Concen: 20.848 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

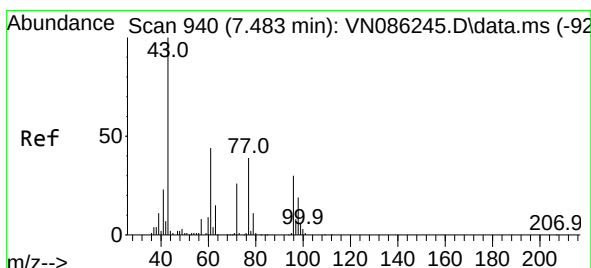
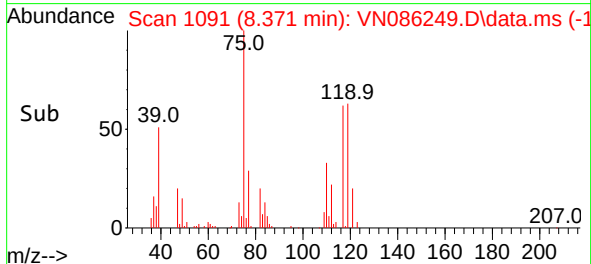
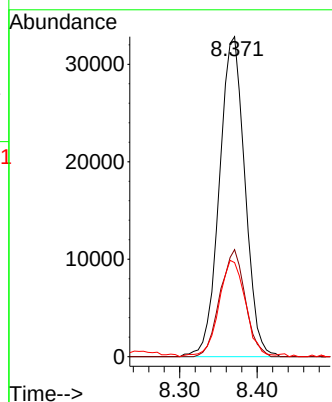
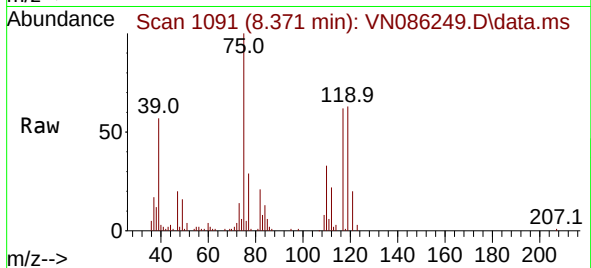
Tgt Ion: 75 Resp: 75242

Ion Ratio Lower Upper

75 100

110 33.1 0.0 68.6

77 31.4 0.0 63.8



#30

2-Butanone

Concen: 96.751 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

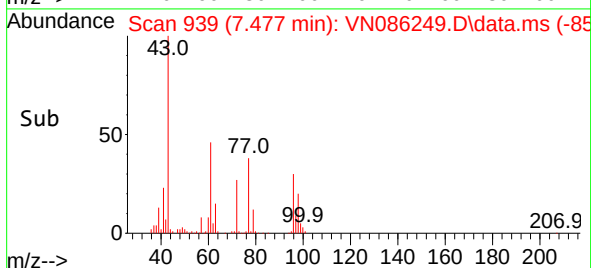
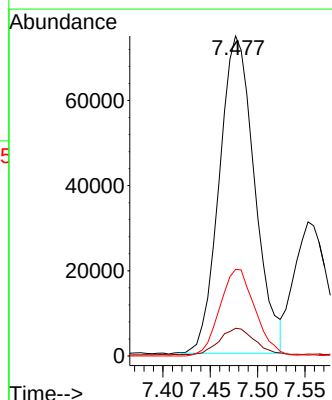
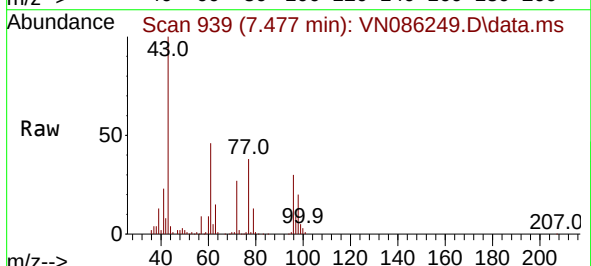
Tgt Ion: 43 Resp: 193486

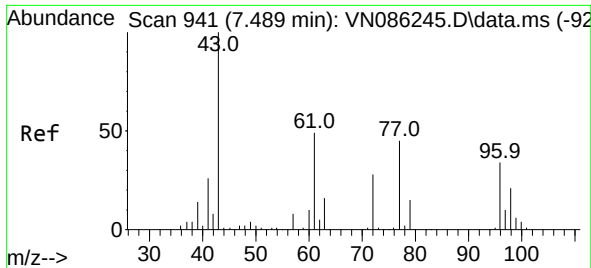
Ion Ratio Lower Upper

43 100

57 8.4 6.4 9.6

72 27.2 21.5 32.3





#31

2,2-Dichloropropane

Concen: 21.091 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

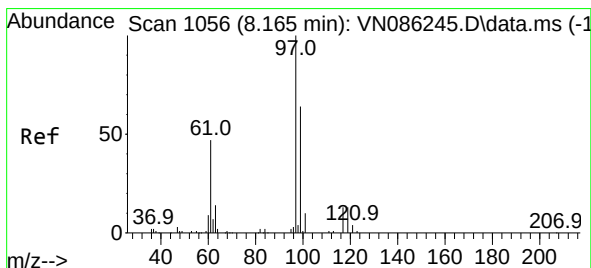
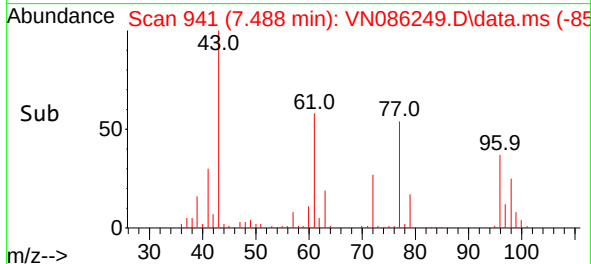
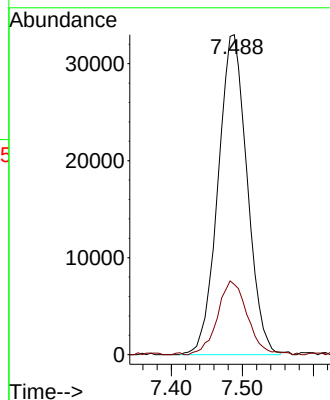
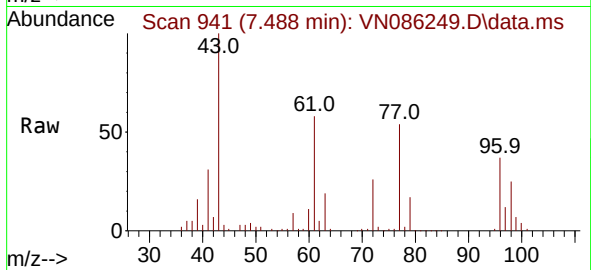
VN0411WBS01

Tgt Ion: 77 Resp: 93697

Ion Ratio Lower Upper

77 100

97 23.5 18.8 28.2



#32

1,1,1-Trichloroethane

Concen: 20.651 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

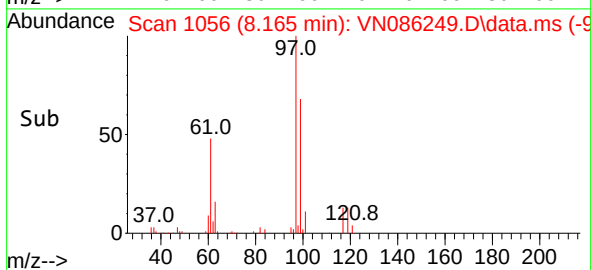
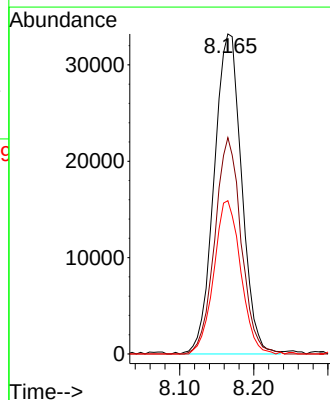
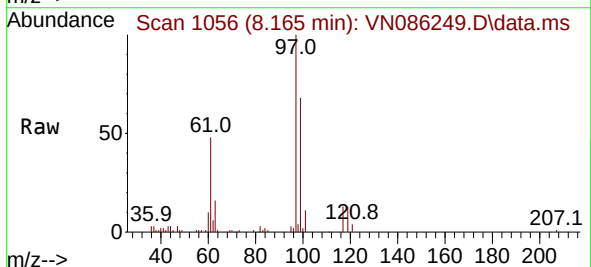
Tgt Ion: 97 Resp: 85736

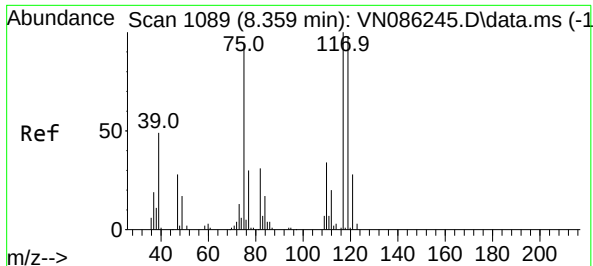
Ion Ratio Lower Upper

97 100

99 64.9 51.4 77.2

61 46.7 37.0 55.6

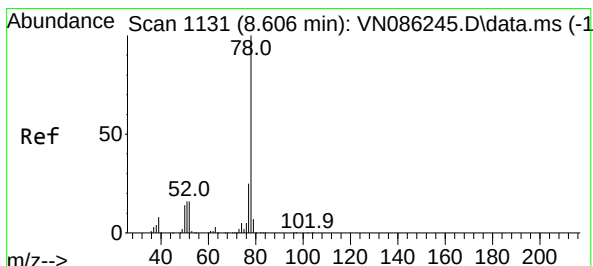
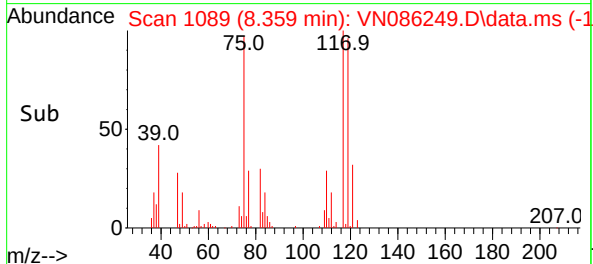
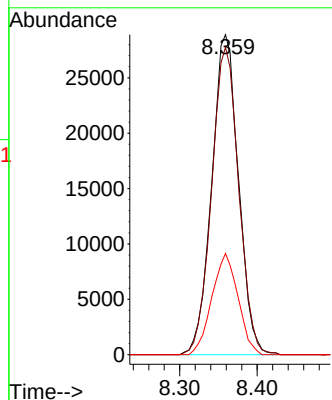
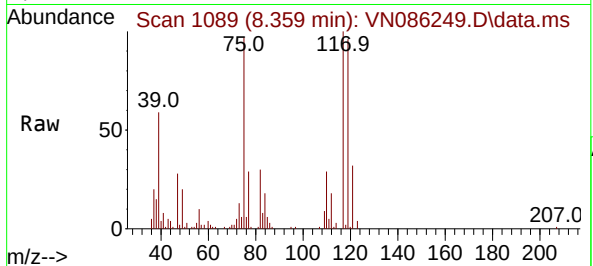




#33
Carbon Tetrachloride
Concen: 20.895 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

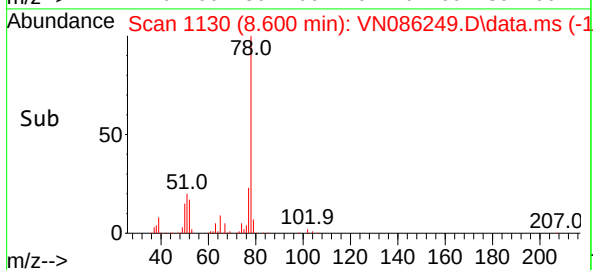
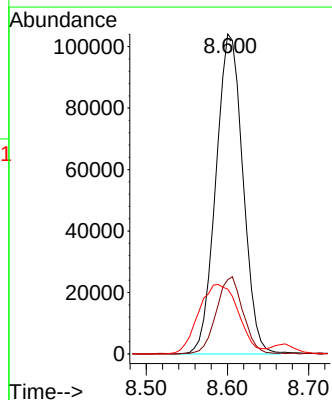
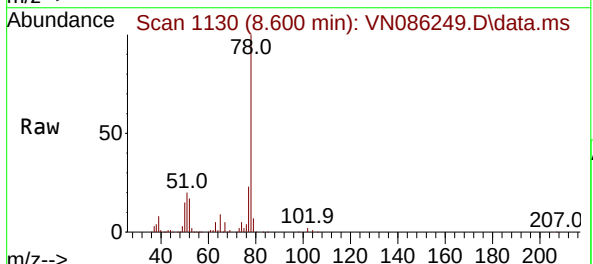
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

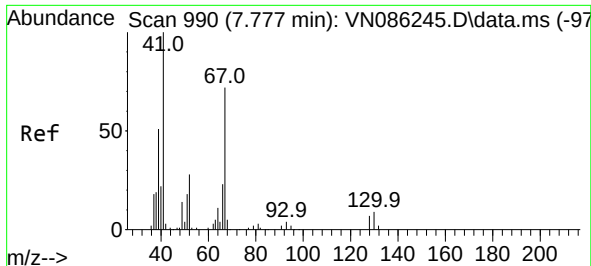
Tgt Ion:117 Resp: 69324
Ion Ratio Lower Upper
117 100
119 96.0 78.3 117.5
121 31.6 22.5 33.7



#34
Benzene
Concen: 20.972 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 78 Resp: 240800
Ion Ratio Lower Upper
78 100
77 23.0 20.0 30.0
51 19.1 12.9 19.3

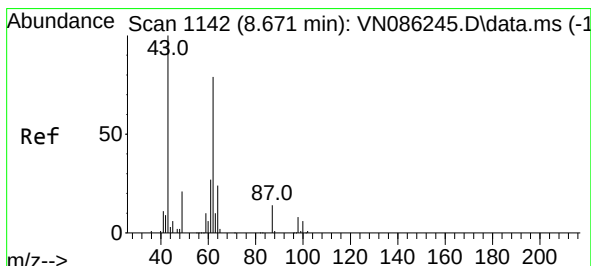
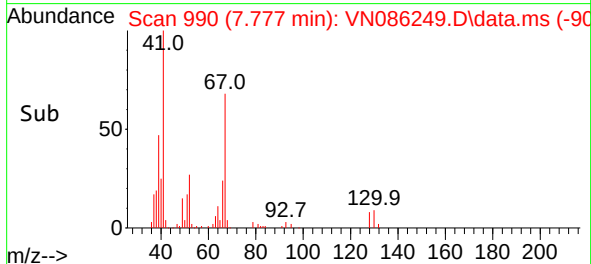
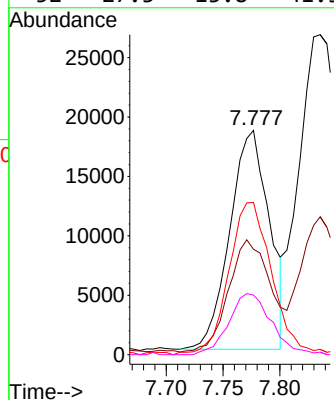
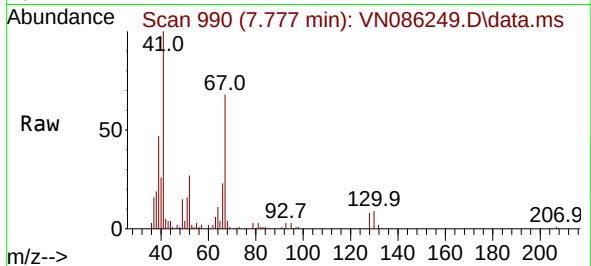




#35
Methacrylonitrile
Concen: 19.760 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

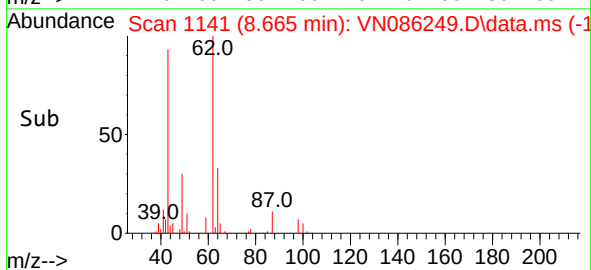
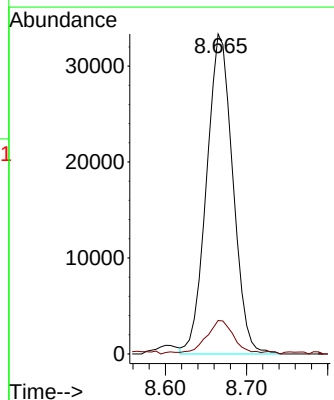
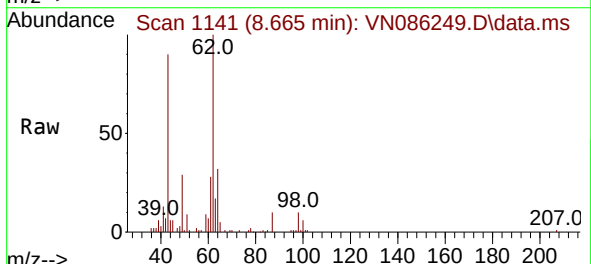
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

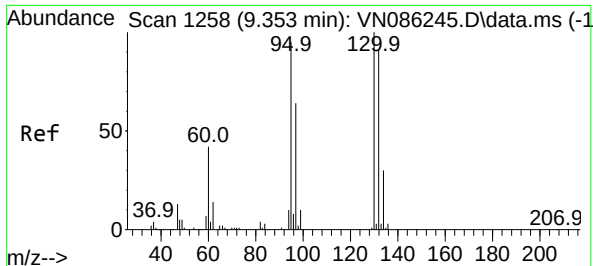
Tgt Ion:	41	Resp:	44549
Ion	Ratio	Lower	Upper
41	100		
39	47.0	25.8	77.3
67	68.5	36.0	108.0
52	27.3	13.8	41.3



#36
1,2-Dichloroethane
Concen: 20.892 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:	62	Resp:	75064
Ion	Ratio	Lower	Upper
62	100		
98	10.3	8.6	12.8





#37

Trichloroethene

Concen: 20.150 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

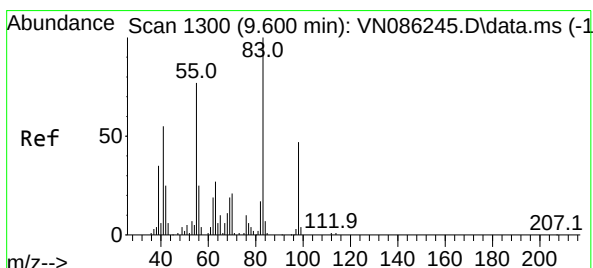
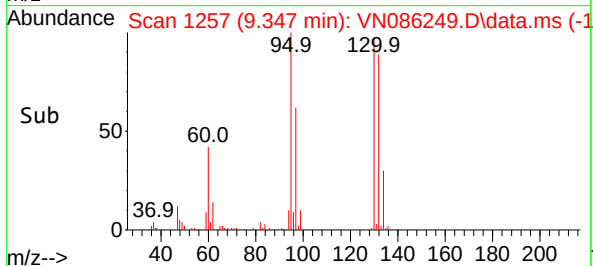
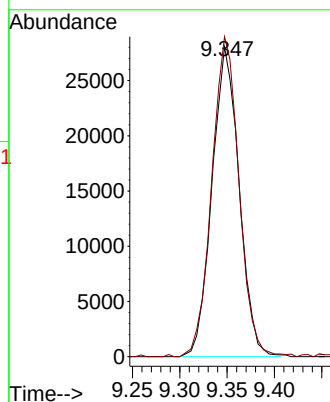
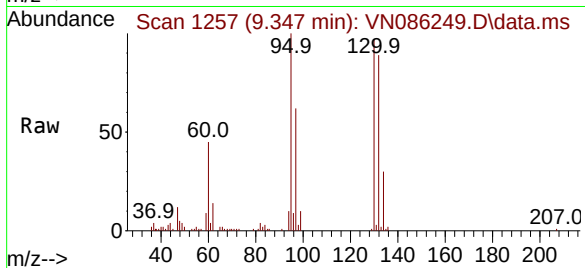
VN0411WBS01

Tgt Ion:130 Resp: 55823

Ion Ratio Lower Upper

130 100

95 103.2 76.4 114.6



#38

Methylcyclohexane

Concen: 20.887 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

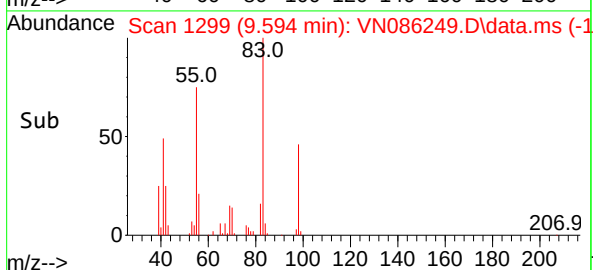
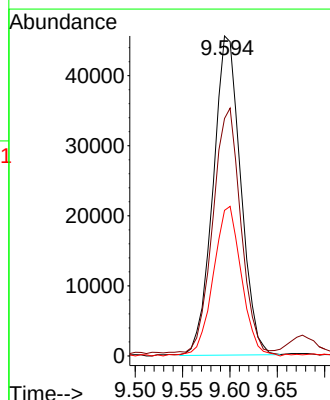
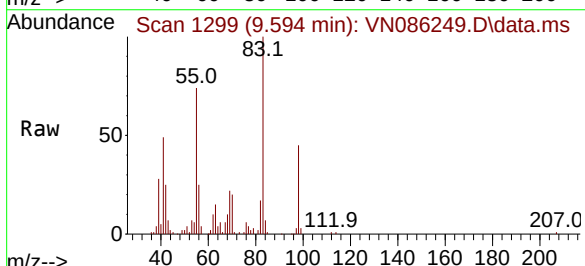
Tgt Ion: 83 Resp: 92449

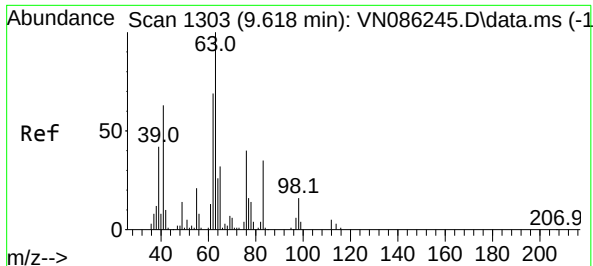
Ion Ratio Lower Upper

83 100

55 77.4 38.5 115.5

98 47.6 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.876 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

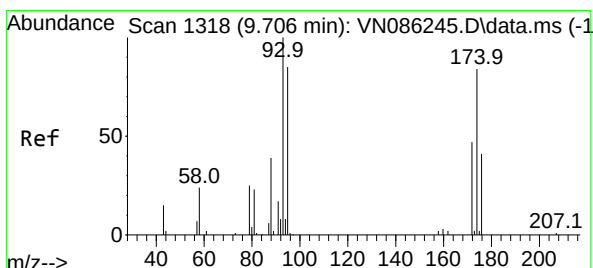
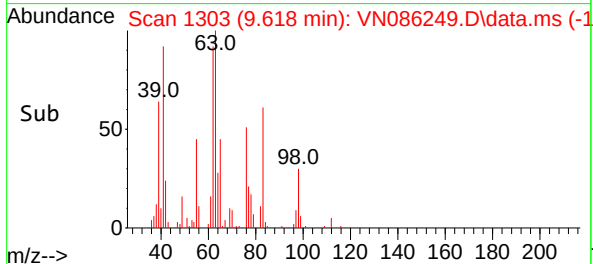
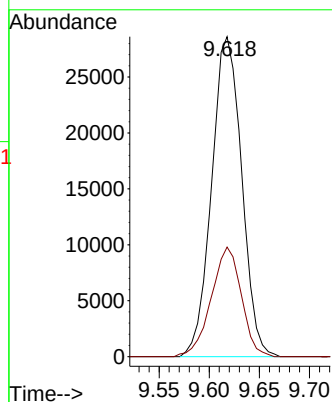
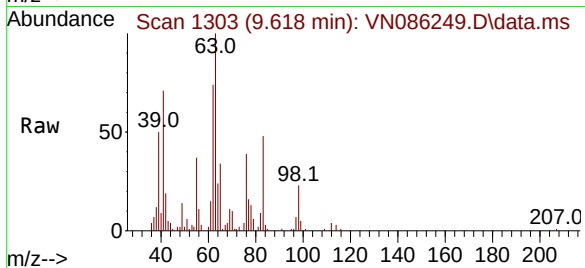
VN0411WBS01

Tgt Ion: 63 Resp: 59643

Ion Ratio Lower Upper

63 100

65 34.2 26.0 39.0



#40

Dibromomethane

Concen: 20.021 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

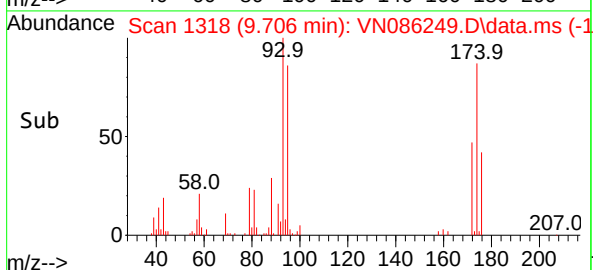
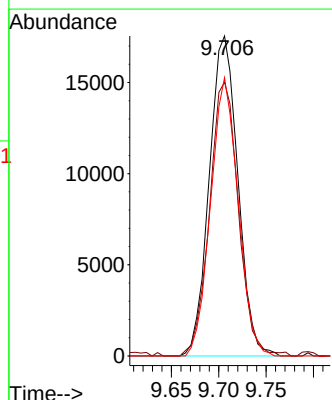
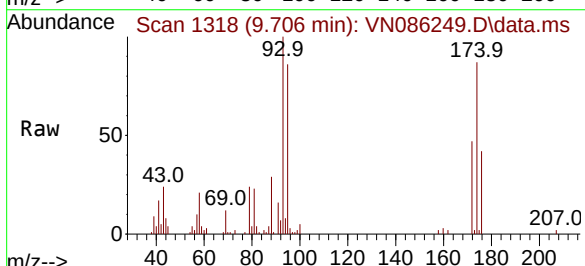
Tgt Ion: 93 Resp: 36945

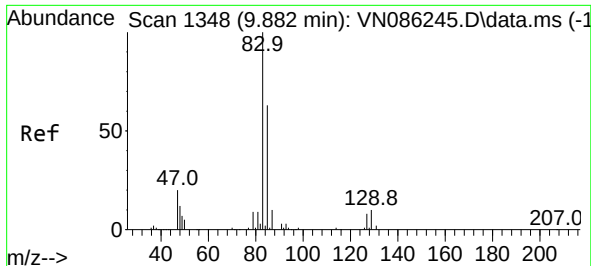
Ion Ratio Lower Upper

93 100

95 85.6 0.0 169.0

174 83.5 0.0 168.0

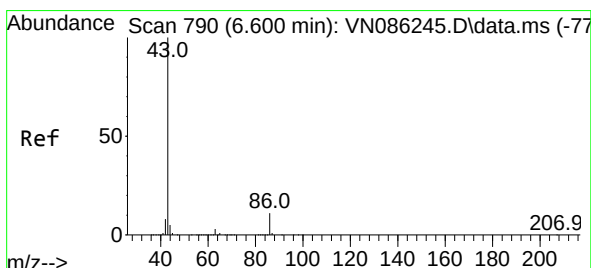
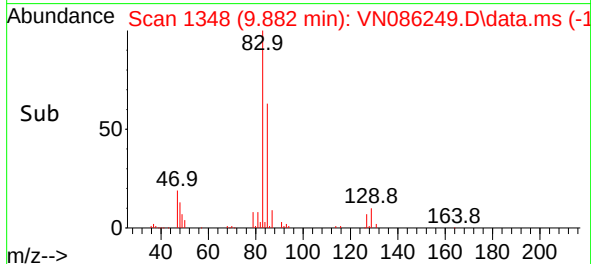
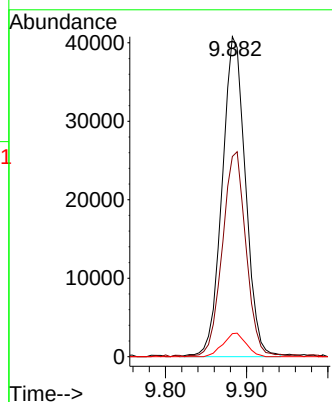
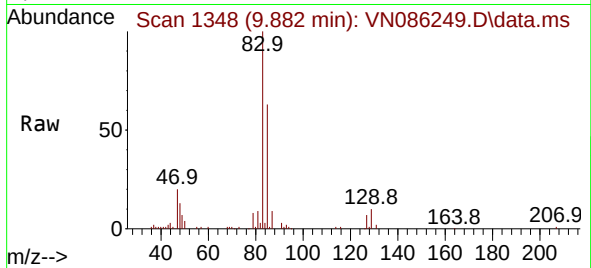




#41
Bromodichloromethane
Concen: 20.598 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

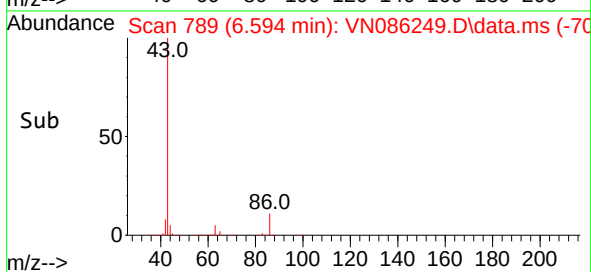
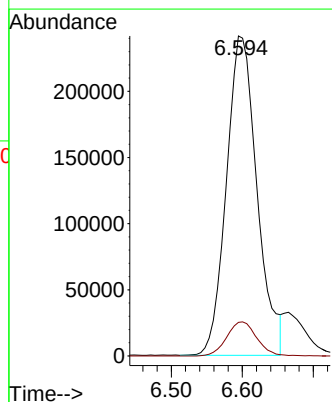
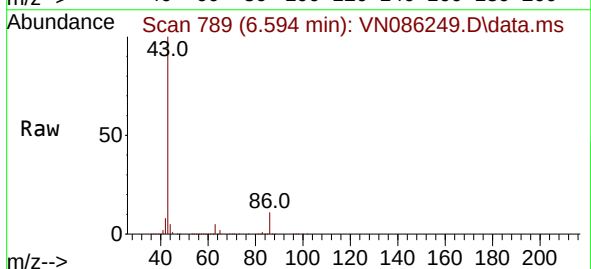
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

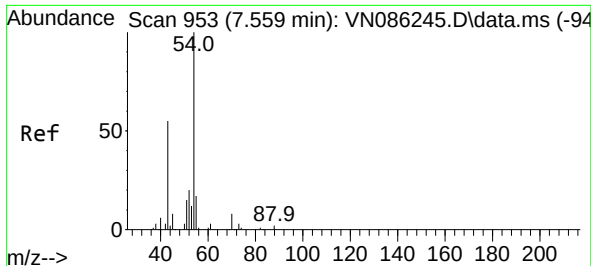
Tgt Ion: 83 Resp: 81655
Ion Ratio Lower Upper
83 100
85 62.1 50.2 75.2
127 7.2 6.2 9.4



#42
Vinyl Acetate
Concen: 106.292 ug/l
RT: 6.594 min Scan# 789
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 43 Resp: 723573
Ion Ratio Lower Upper
43 100
86 10.4 8.4 12.6

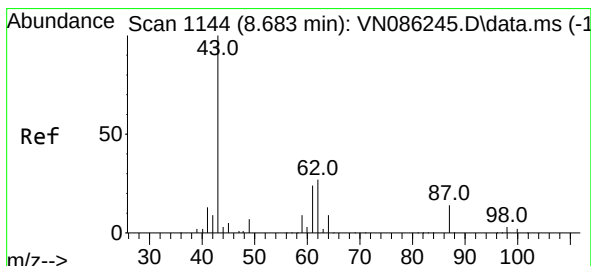
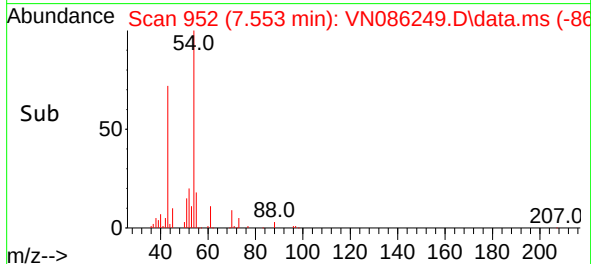
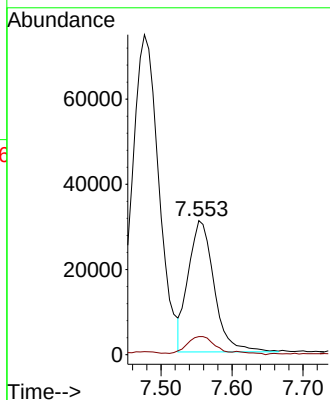
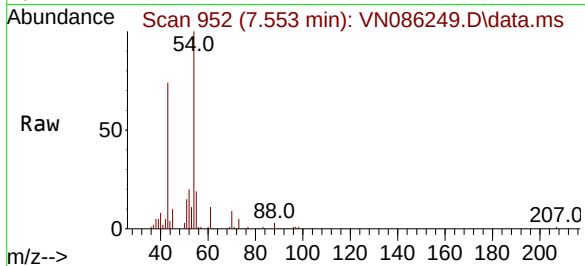




#43
Ethyl Acetate
Concen: 19.328 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

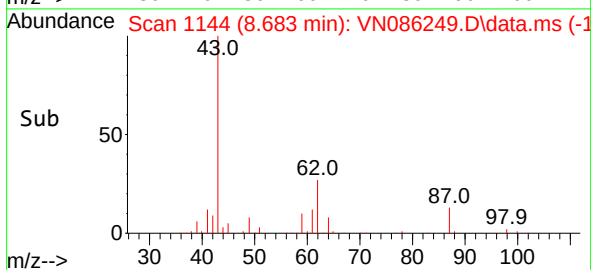
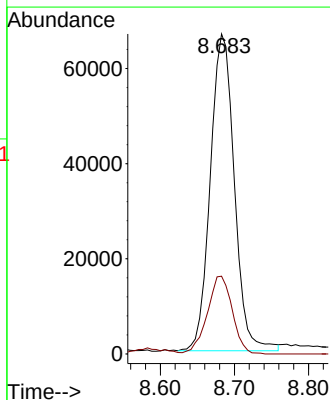
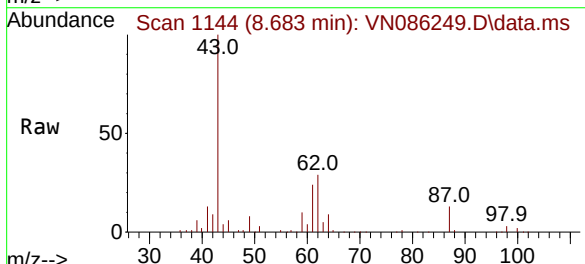
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

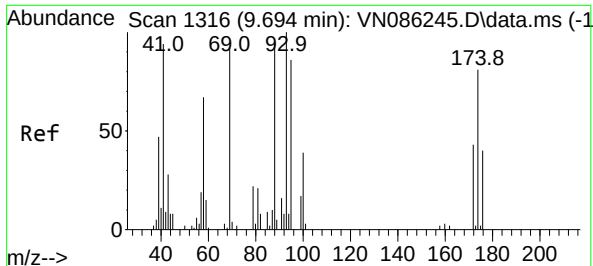
Tgt Ion: 43 Resp: 77965
Ion Ratio Lower Upper
43 100
45 13.2 11.2 16.8



#44
Isopropyl Acetate
Concen: 20.046 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 43 Resp: 150010
Ion Ratio Lower Upper
43 100
61 24.9 20.5 30.7





#45

1,4-Dioxane

Concen: 366.878 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

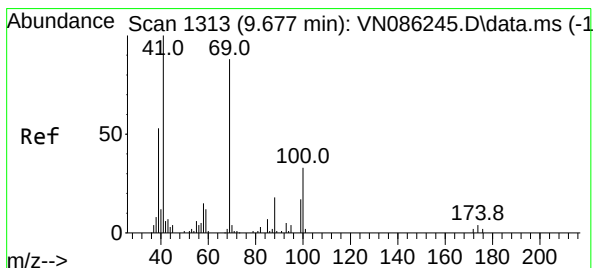
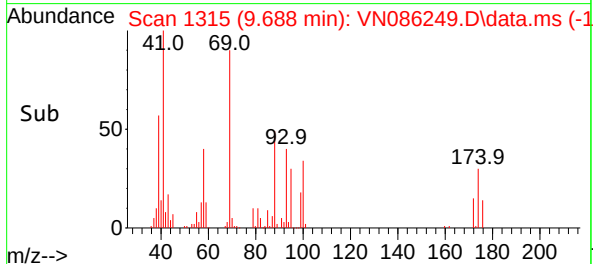
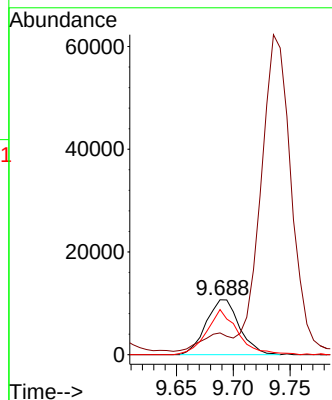
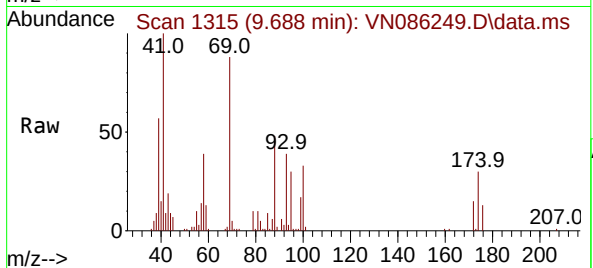
Tgt Ion: 88 Resp: 21831

Ion Ratio Lower Upper

88 100

43 30.1 14.4 21.6#

58 76.8 59.8 89.8



#46

Methyl methacrylate

Concen: 20.193 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

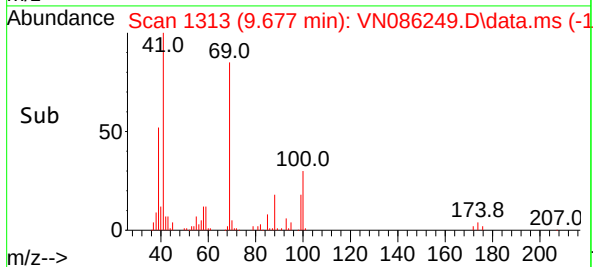
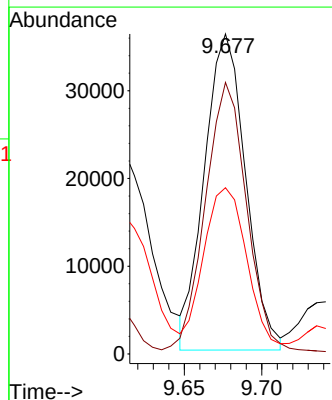
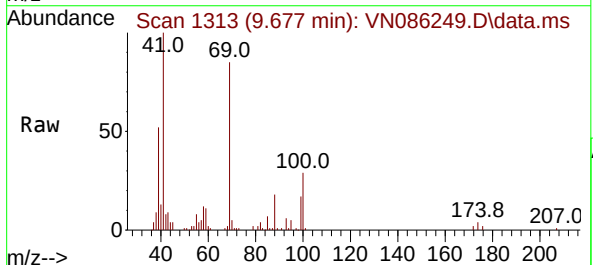
Tgt Ion: 41 Resp: 66579

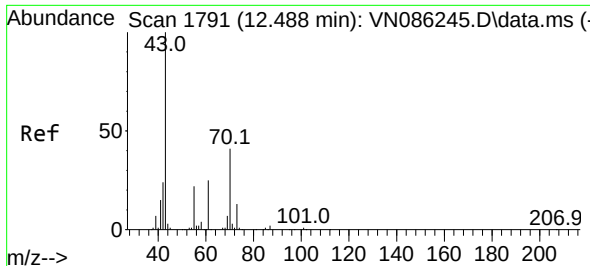
Ion Ratio Lower Upper

41 100

69 85.8 43.2 129.6

39 51.3 26.4 79.0

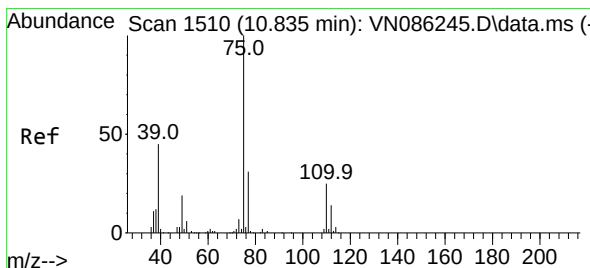
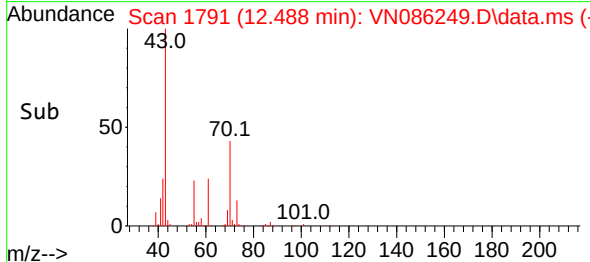
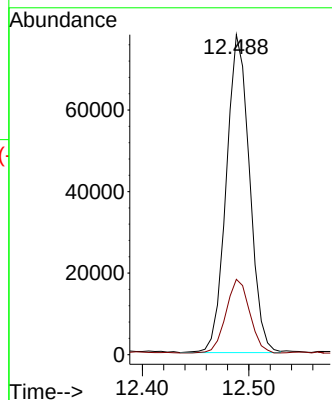
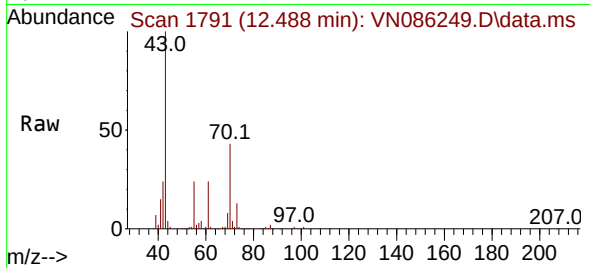




#47
n-amyl acetate
Concen: 19.943 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

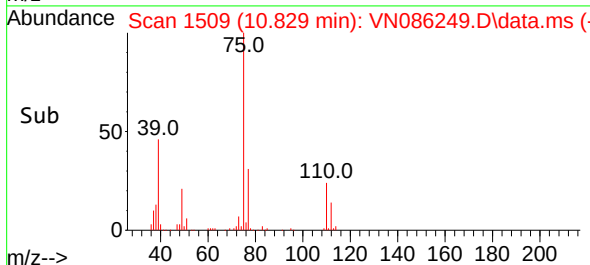
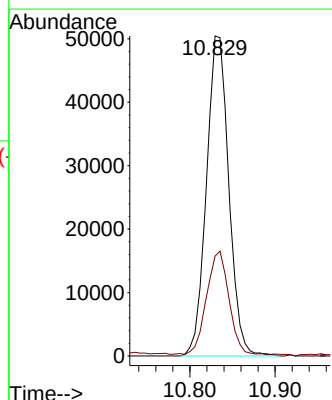
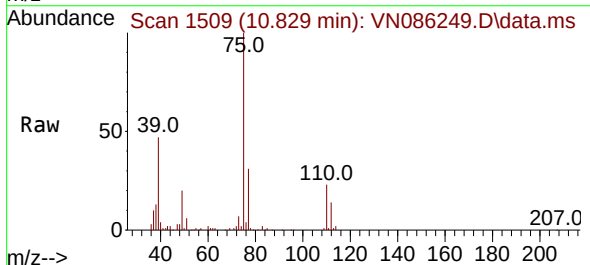
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

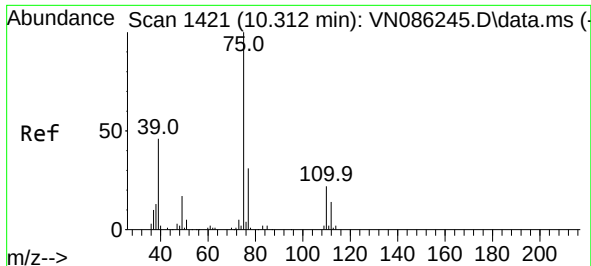
Tgt Ion: 43 Resp: 118327
Ion Ratio Lower Upper
43 100
55 23.5 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 20.541 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 75 Resp: 92056
Ion Ratio Lower Upper
75 100
77 30.7 25.1 37.7

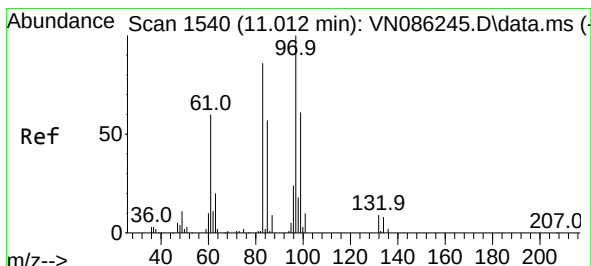
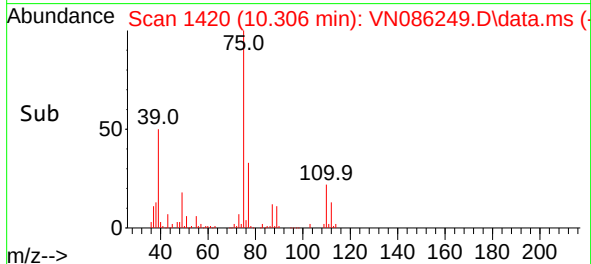
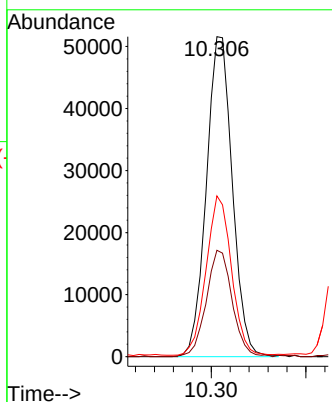
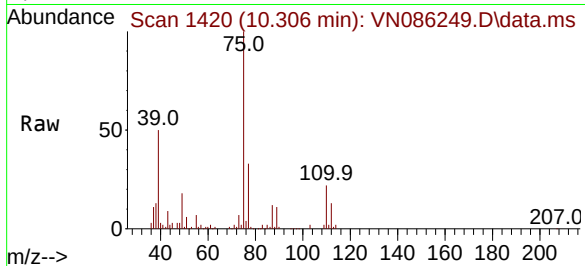




#49
 cis-1,3-Dichloropropene
 Concen: 20.682 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.006 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

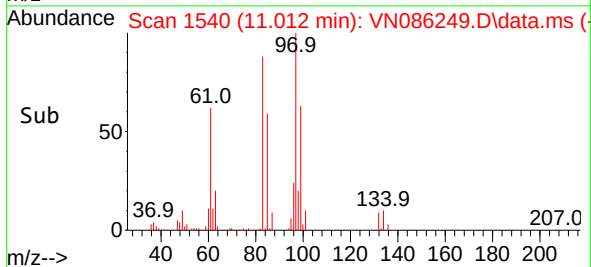
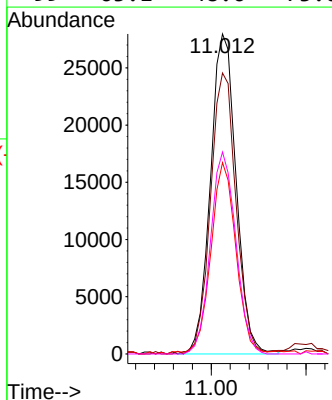
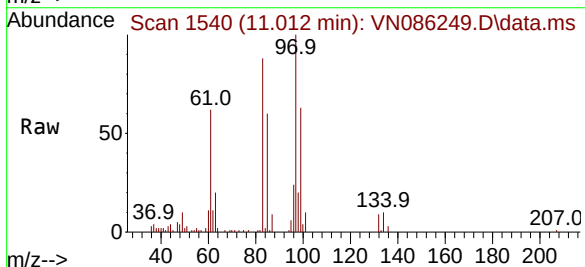
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

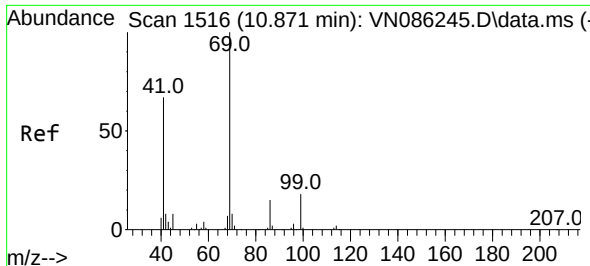
Tgt Ion: 75 Resp: 98100
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.0 37.4
 39 49.8 36.7 55.1



#50
 1,1,2-Trichloroethane
 Concen: 20.382 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion: 97 Resp: 52750
 Ion Ratio Lower Upper
 97 100
 83 87.0 68.6 103.0
 85 59.1 45.9 68.9
 99 63.1 48.6 73.0

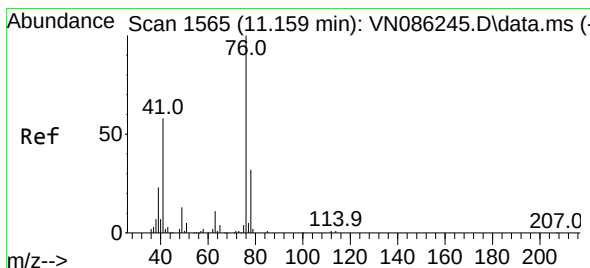
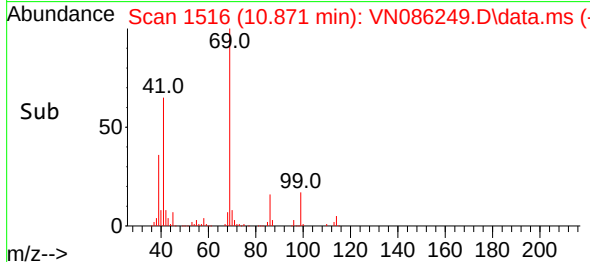
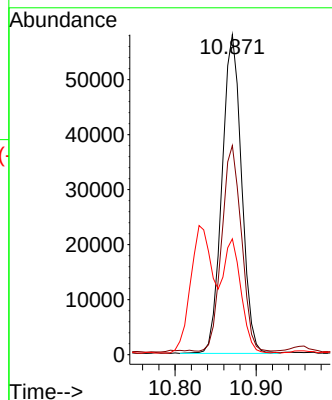
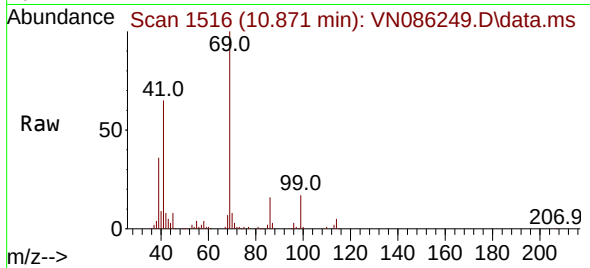




#51
Ethyl methacrylate
Concen: 20.222 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

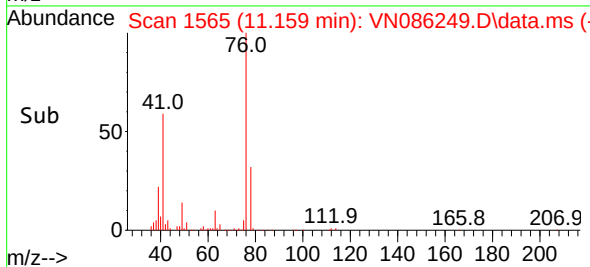
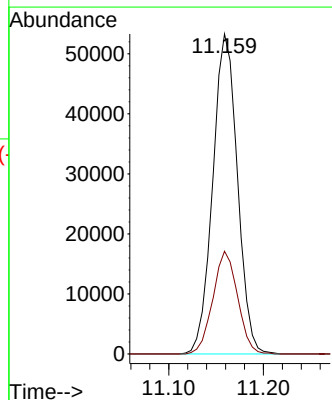
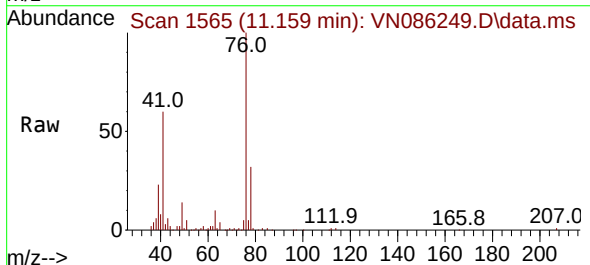
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

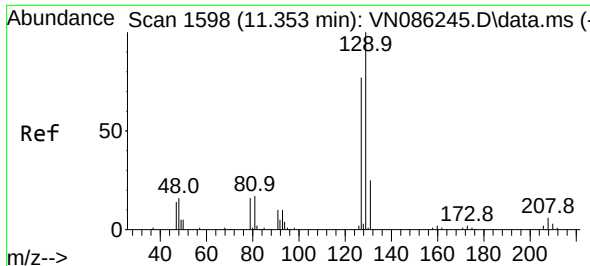
Tgt Ion: 69 Resp: 97258
Ion Ratio Lower Upper
69 100
41 64.3 33.6 100.6
39 35.9 17.8 53.4



#52
1,3-Dichloropropane
Concen: 20.938 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 76 Resp: 96585
Ion Ratio Lower Upper
76 100
78 32.1 0.0 64.6

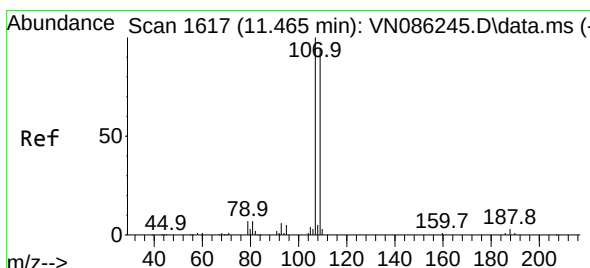
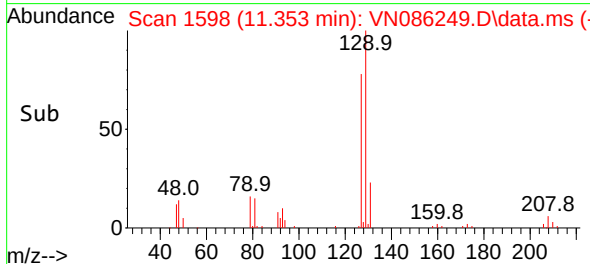
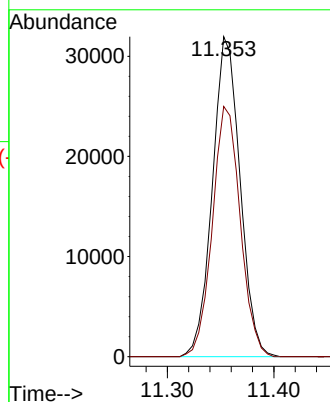
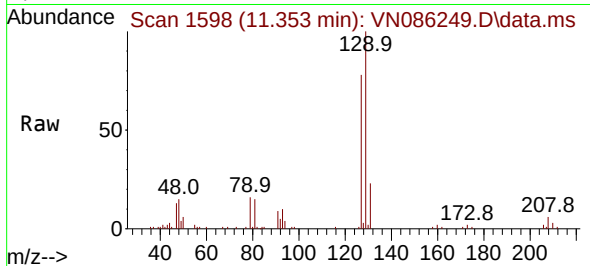




#53
Dibromochloromethane
Concen: 20.369 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

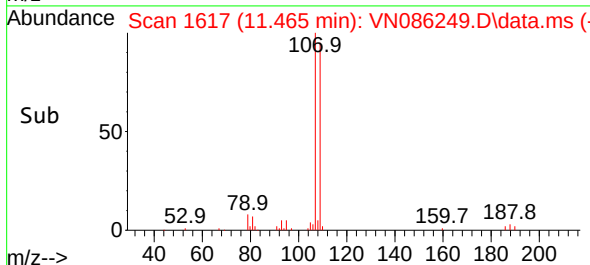
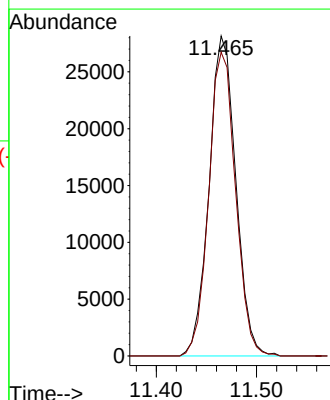
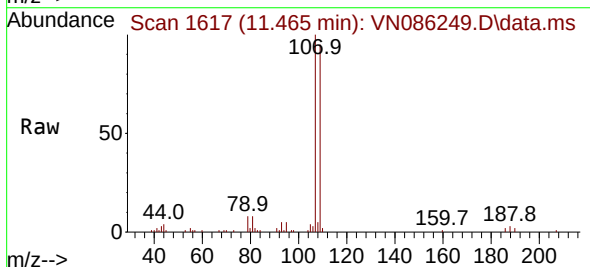
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

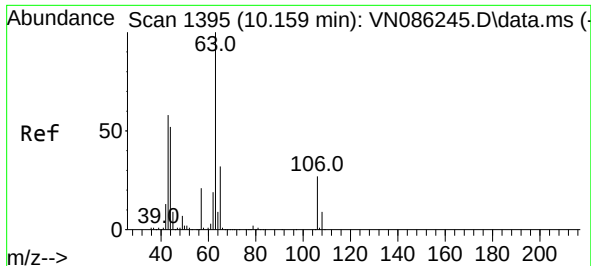
Tgt Ion:129 Resp: 57663
Ion Ratio Lower Upper
129 100
127 78.7 38.5 115.5



#54
1,2-Dibromoethane
Concen: 20.012 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:107 Resp: 52283
Ion Ratio Lower Upper
107 100
109 95.0 75.2 112.8

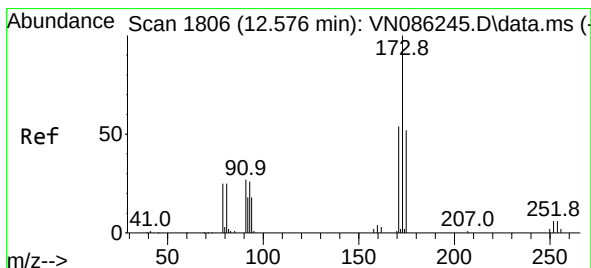
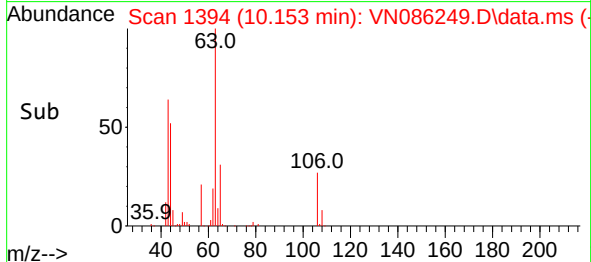
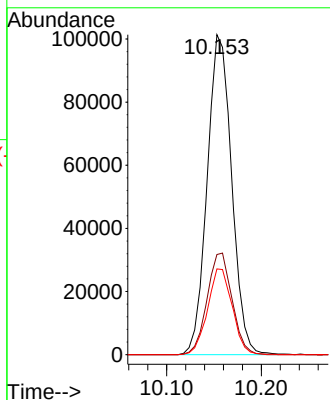
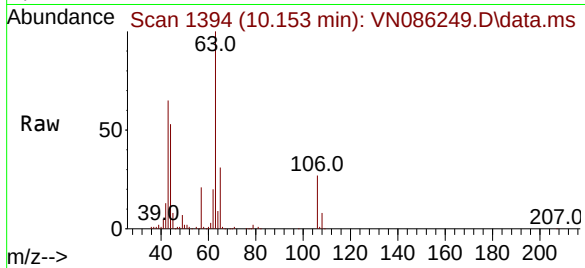




#55
2-Chloroethyl vinyl ether
Concen: 100.309 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

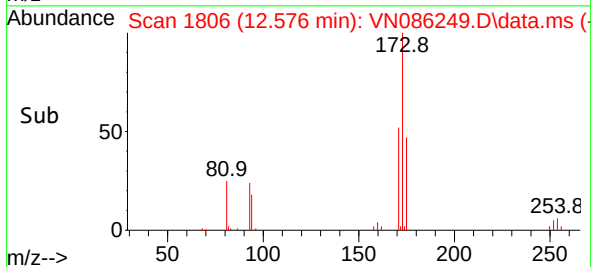
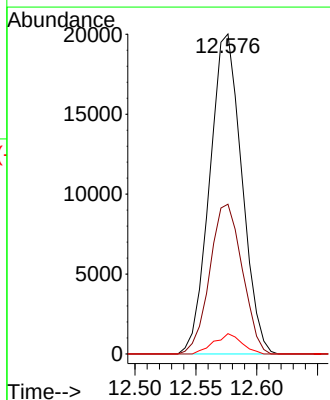
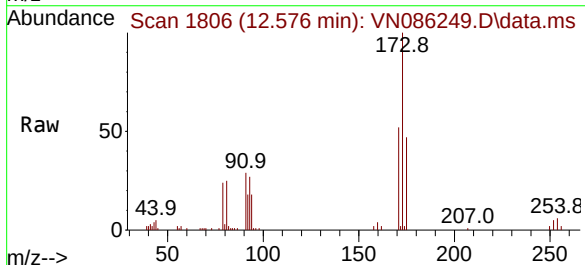
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

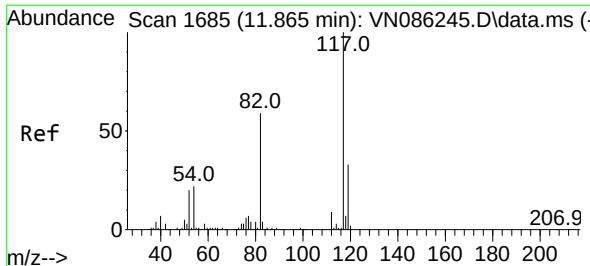
Tgt Ion: 63 Resp: 182299
Ion Ratio Lower Upper
63 100
65 32.2 25.8 38.8
106 27.0 21.8 32.8



#56
Bromoform
Concen: 19.864 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:173 Resp: 36790
Ion Ratio Lower Upper
173 100
175 47.3 38.2 57.4
254 5.5 4.5 6.7

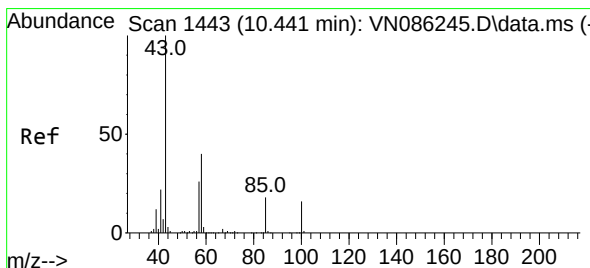
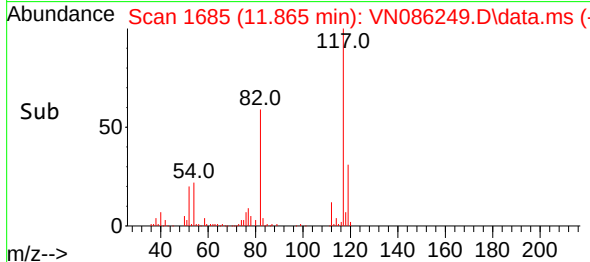
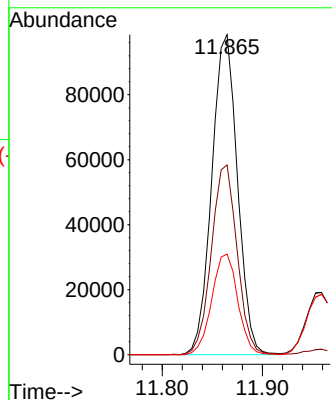
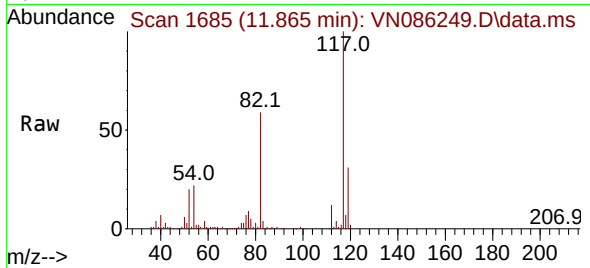




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

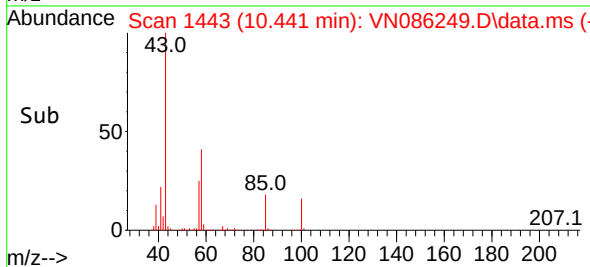
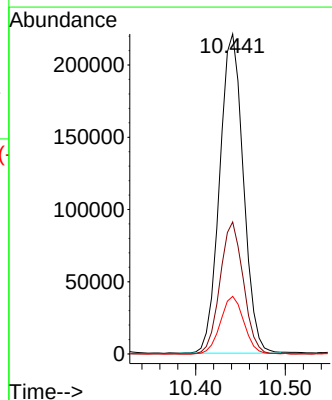
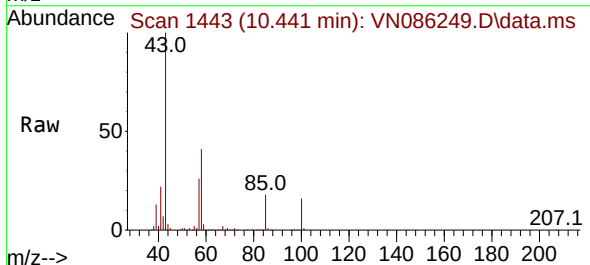
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

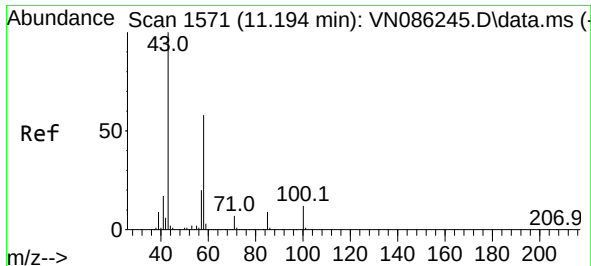
Tgt Ion:117 Resp: 175632
Ion Ratio Lower Upper
117 100
82 59.5 47.3 70.9
119 31.8 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 101.770 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 43 Resp: 405618
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 17.9 14.4 21.6

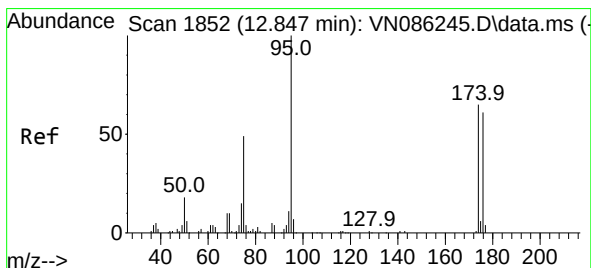
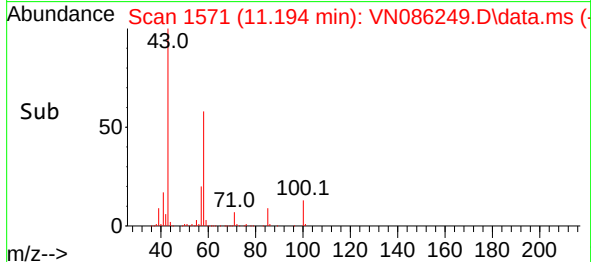
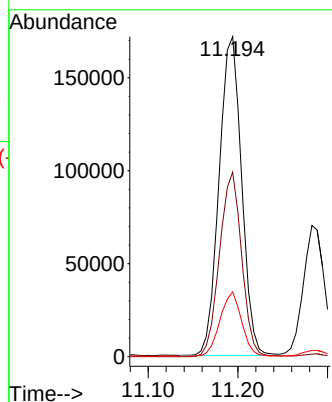
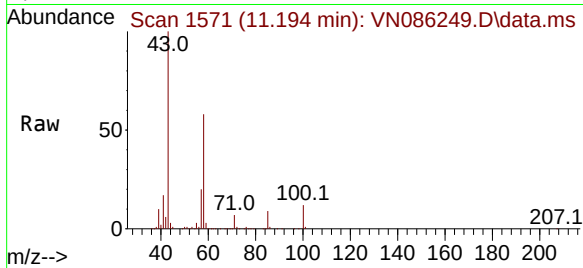




#59
2-Hexanone
Concen: 100.637 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

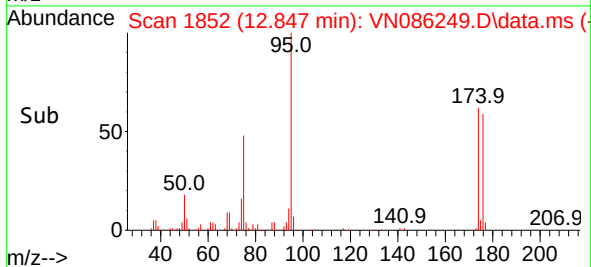
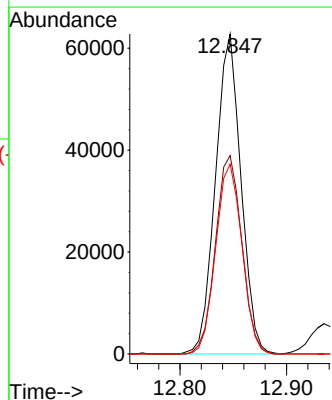
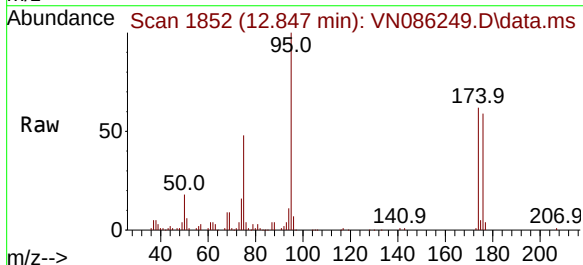
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

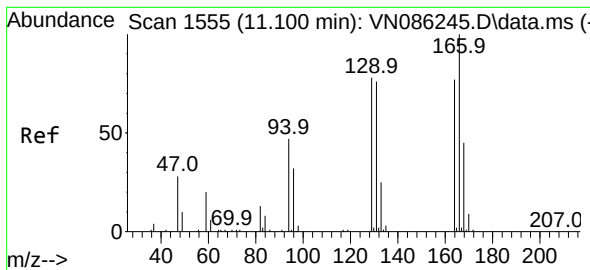
Tgt Ion: 43 Resp: 298673
Ion Ratio Lower Upper
43 100
58 56.8 45.3 67.9
57 19.3 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 29.838 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 95 Resp: 104335
Ion Ratio Lower Upper
95 100
174 63.9 52.7 79.1
176 61.2 49.8 74.8





#61

Tetrachloroethene

Concen: 20.949 ug/l

RT: 11.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

Tgt Ion:164 Resp: 54335

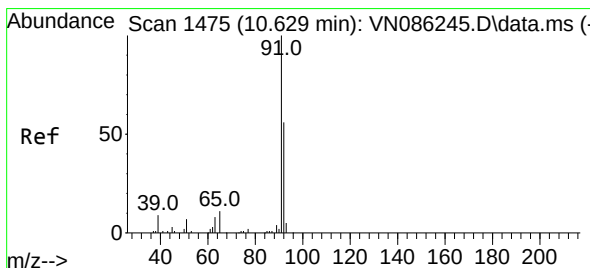
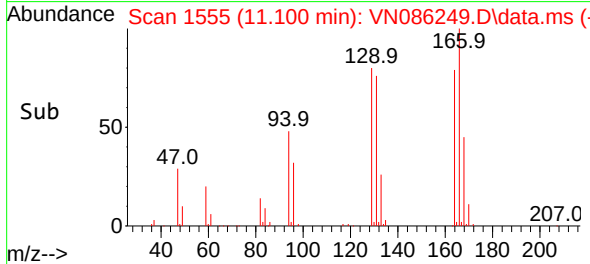
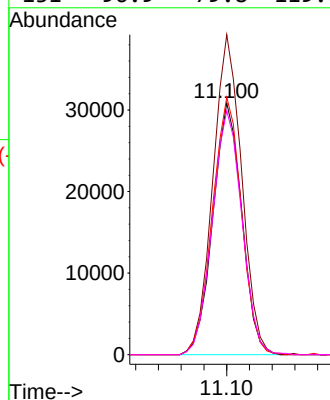
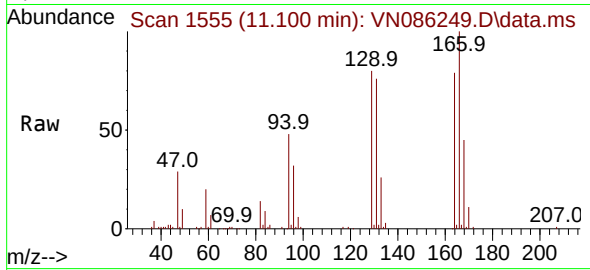
Ion Ratio Lower Upper

164 100

166 127.2 104.5 156.7

129 102.3 81.7 122.5

131 96.9 79.8 119.6



#62

Toluene

Concen: 21.355 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. -0.006 min

Lab File: VN086249.D

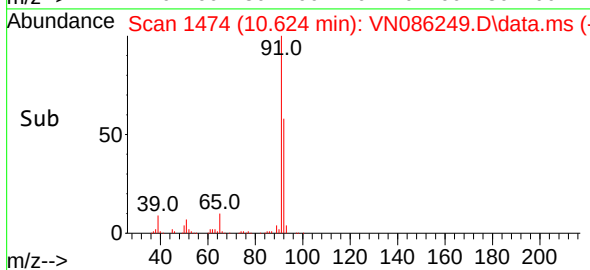
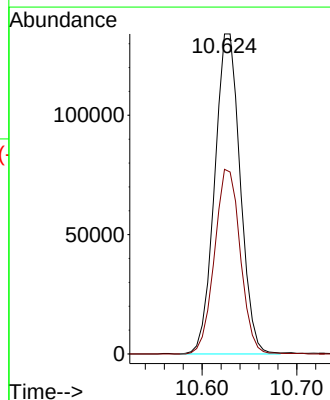
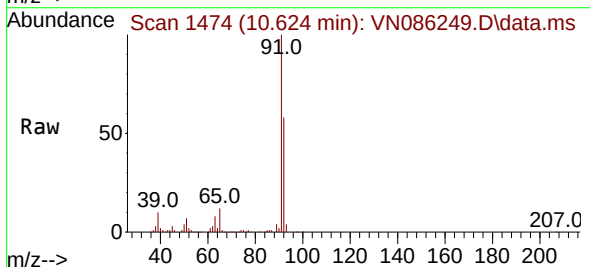
Acq: 11 Apr 2025 14:38

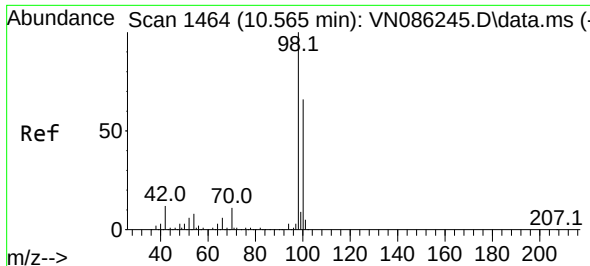
Tgt Ion: 91 Resp: 251566

Ion Ratio Lower Upper

91 100

92 58.1 46.8 70.2

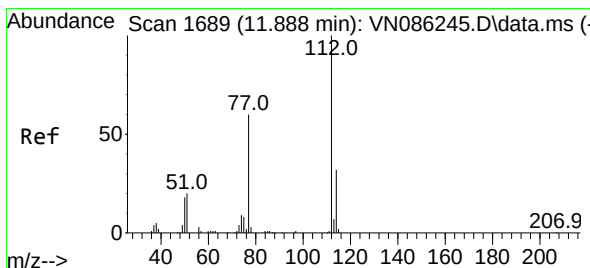
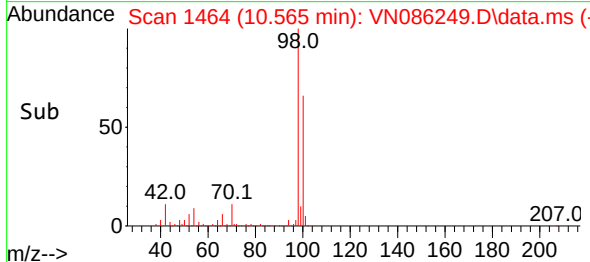
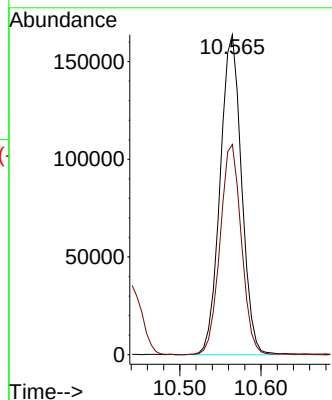
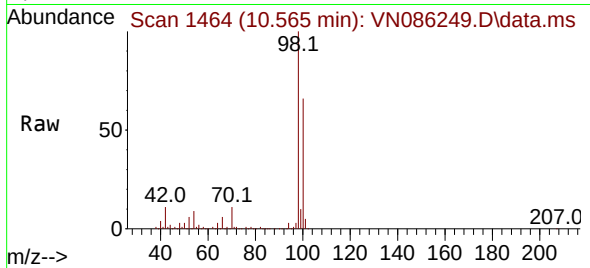




#63
Toluene-d8
Concen: 30.325 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

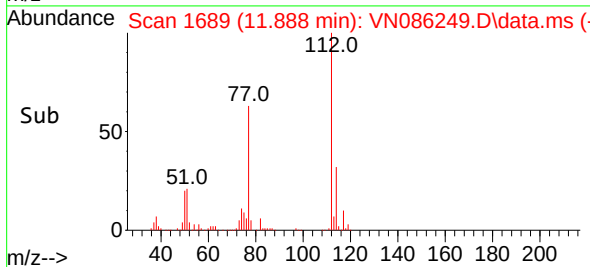
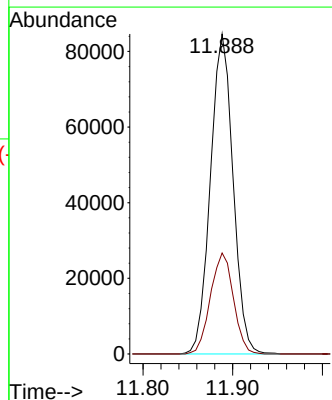
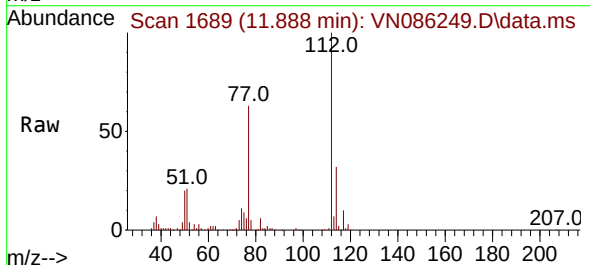
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

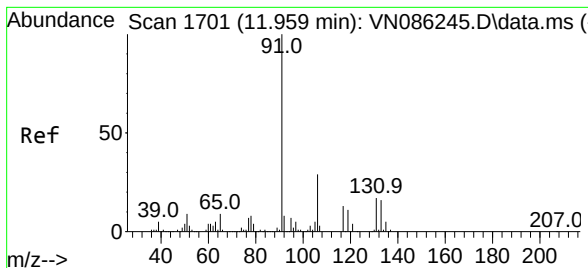
Tgt Ion: 98 Resp: 300690
Ion Ratio Lower Upper
98 100
100 65.3 52.3 78.5



#64
Chlorobenzene
Concen: 20.597 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 112 Resp: 148243
Ion Ratio Lower Upper
112 100
114 31.5 25.8 38.6

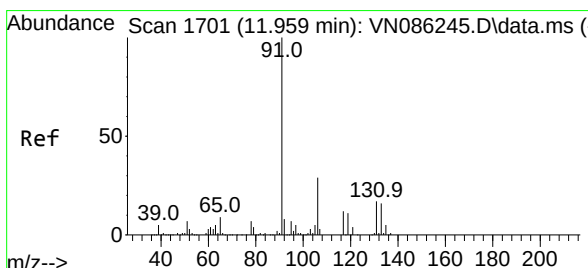
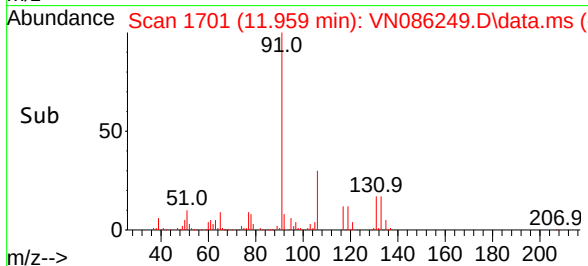
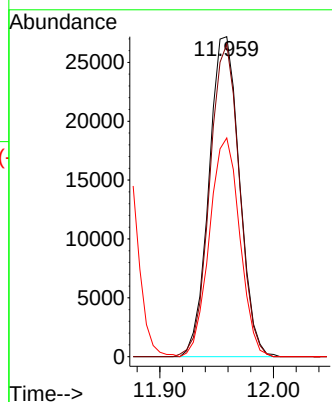
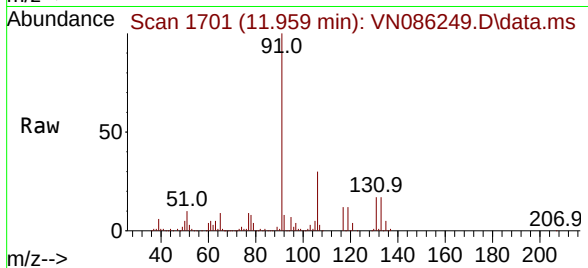




#65
 1,1,1,2-Tetrachloroethane
 Concen: 21.344 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

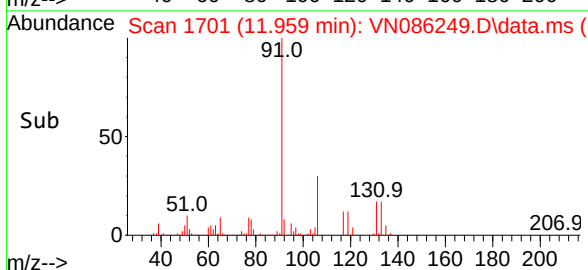
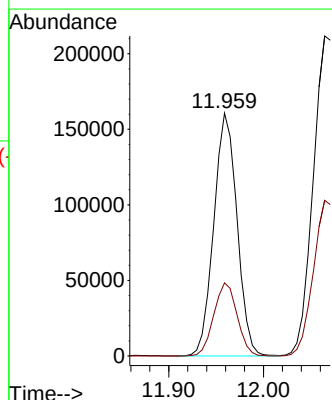
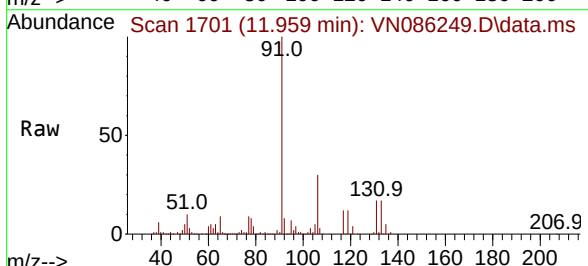
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

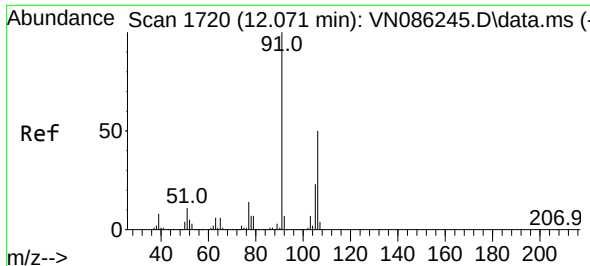
Tgt Ion:131 Resp: 50696
 Ion Ratio Lower Upper
 131 100
 133 94.9 0.0 190.4
 119 67.7 0.0 135.6



#66
 Ethyl Benzene
 Concen: 20.960 ug/l
 RT: 11.959 min Scan# 1701
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion: 91 Resp: 273823
 Ion Ratio Lower Upper
 91 100
 106 30.1 23.4 35.0

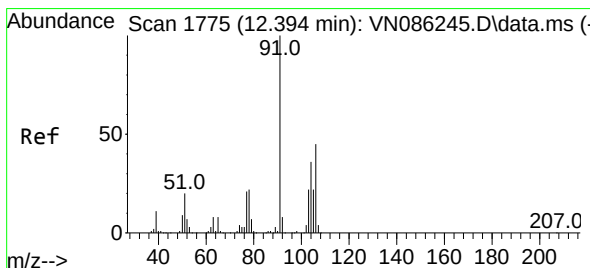
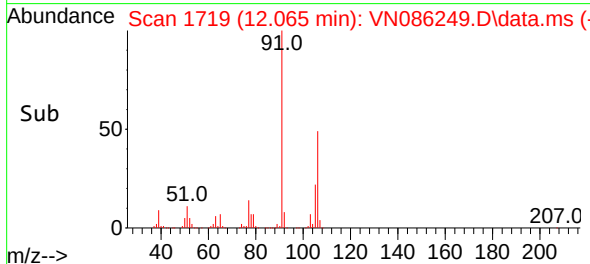
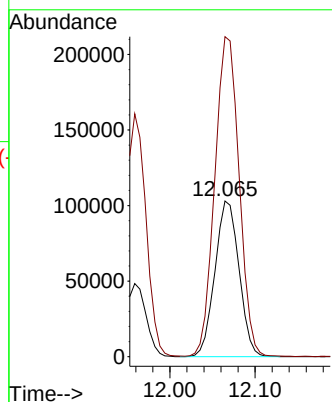
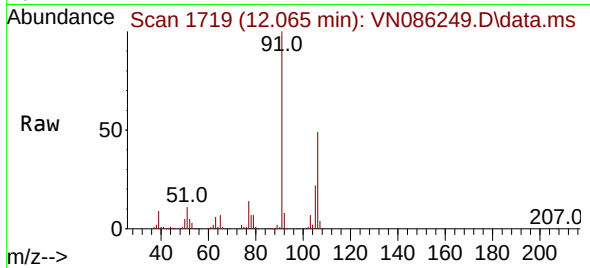




#67
m/p-Xylenes
Concen: 41.705 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

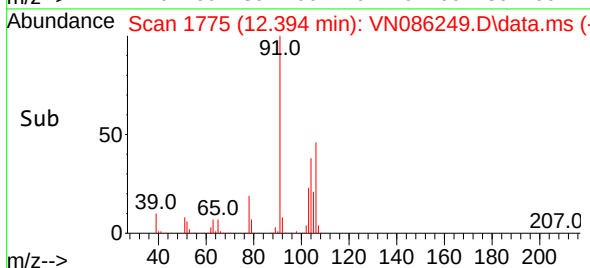
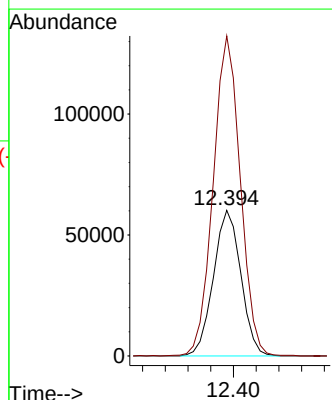
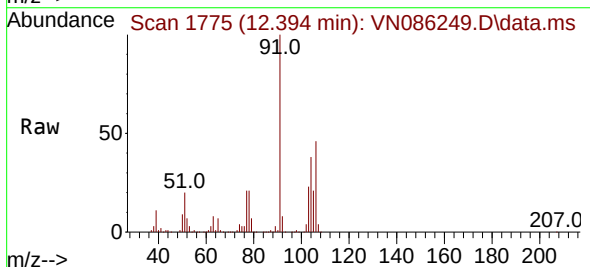
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

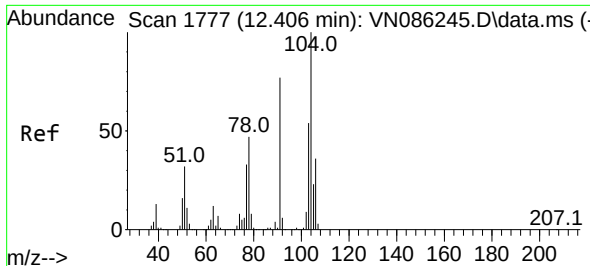
Tgt Ion:106 Resp: 202596
Ion Ratio Lower Upper
106 100
91 208.3 164.5 246.7



#68
o-Xylene
Concen: 21.129 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:106 Resp: 100957
Ion Ratio Lower Upper
106 100
91 217.4 109.8 329.4

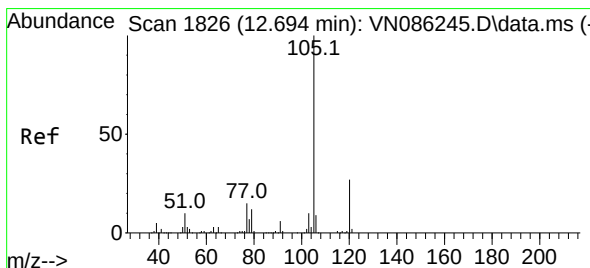
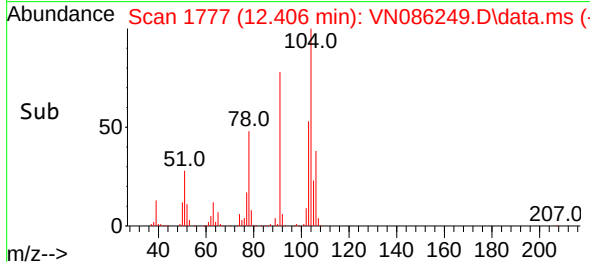
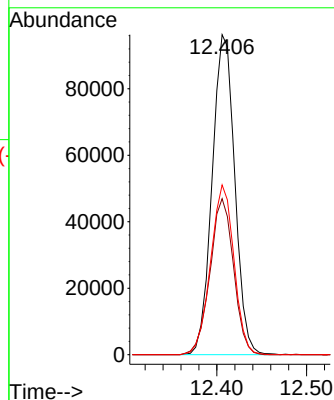
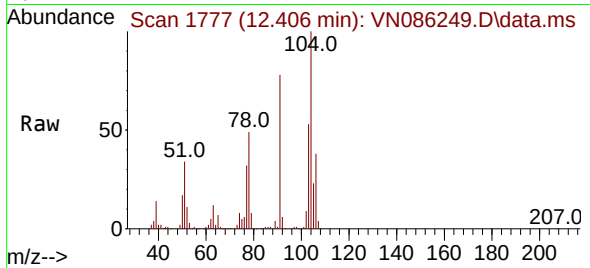




#69
Styrene
Concen: 20.929 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

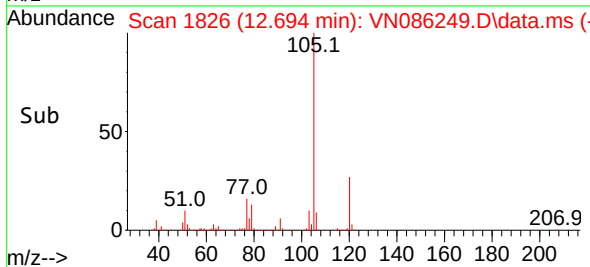
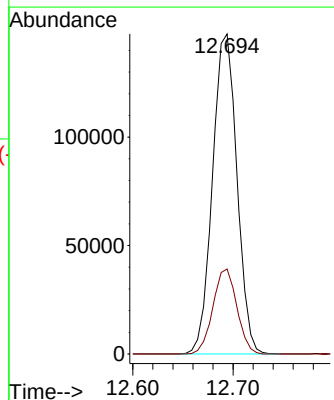
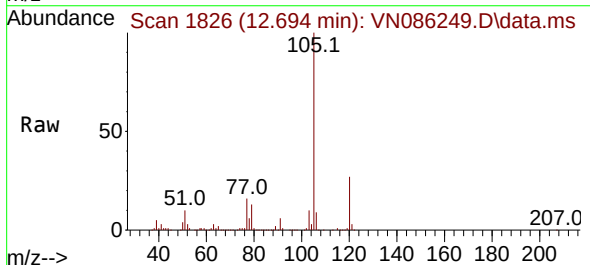
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

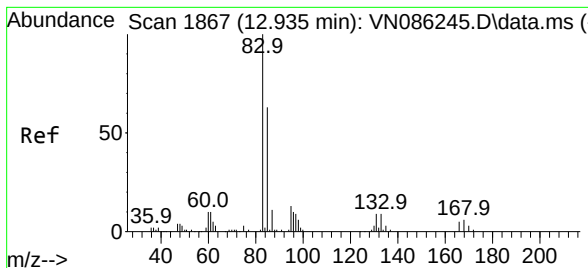
Tgt Ion:104 Resp: 168655
Ion Ratio Lower Upper
104 100
78 50.7 41.4 62.0
103 54.8 44.2 66.4



#70
Isopropylbenzene
Concen: 21.200 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:105 Resp: 249762
Ion Ratio Lower Upper
105 100
120 26.0 18.3 34.1

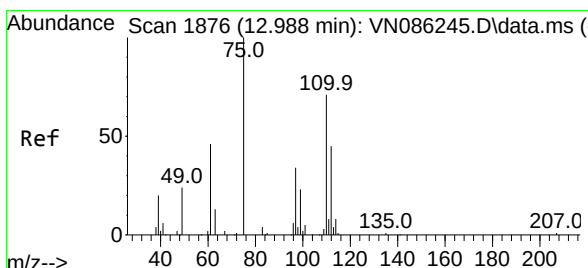
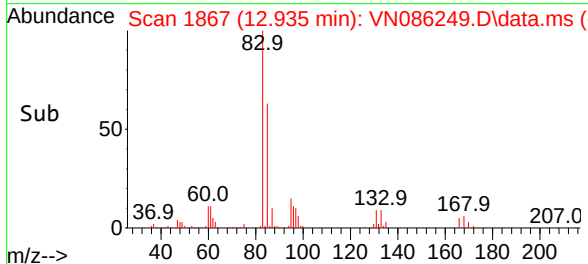
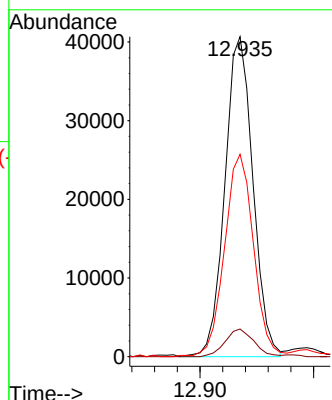
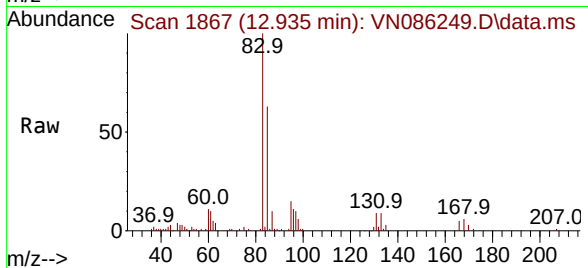




#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.801 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

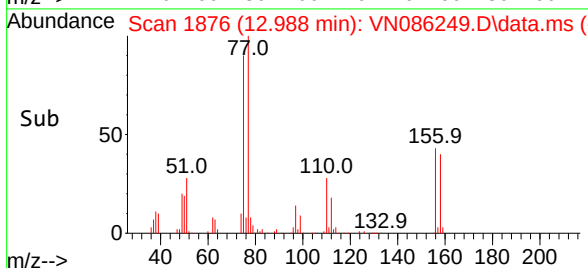
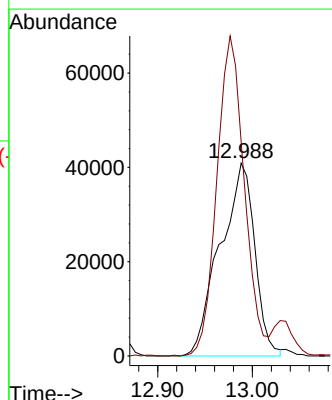
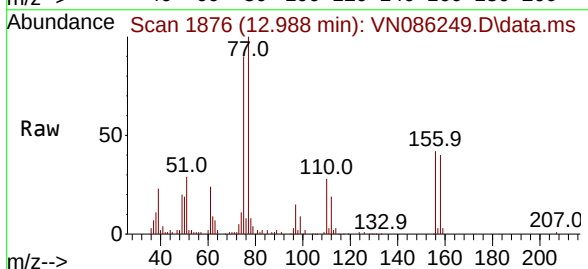
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

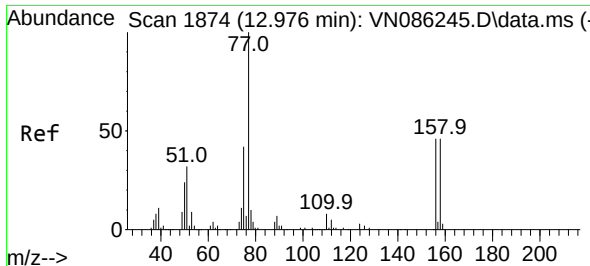
Tgt Ion: 83 Resp: 69753
 Ion Ratio Lower Upper
 83 100
 131 8.9 4.8 14.3
 85 65.3 32.3 96.8



#72
 1,2,3-Trichloropropane
 Concen: 29.748 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion: 75 Resp: 103838
 Ion Ratio Lower Upper
 75 100
 77 132.3 0.0 380.0

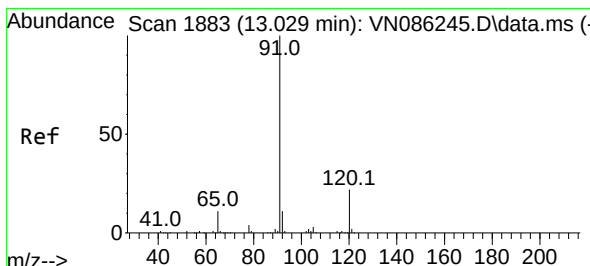
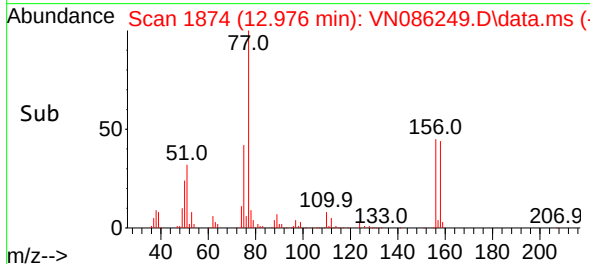
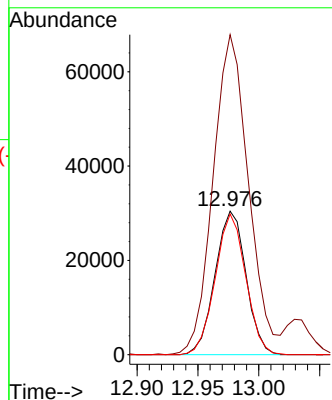
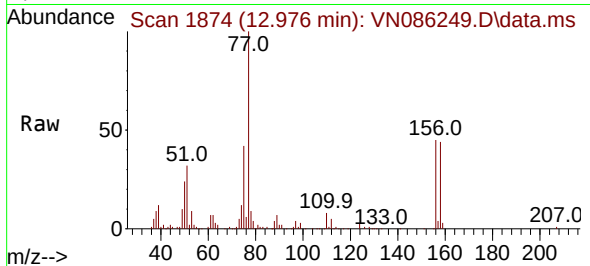




#73
Bromobenzene
Concen: 20.572 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

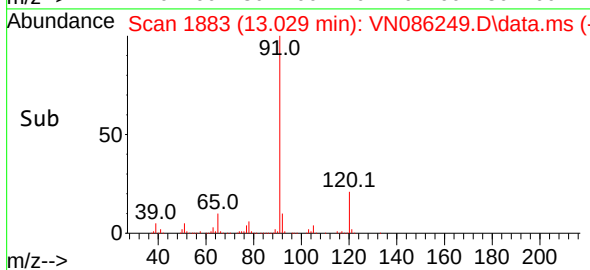
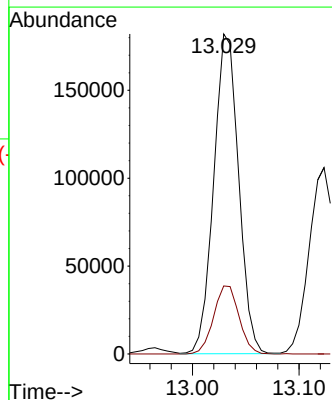
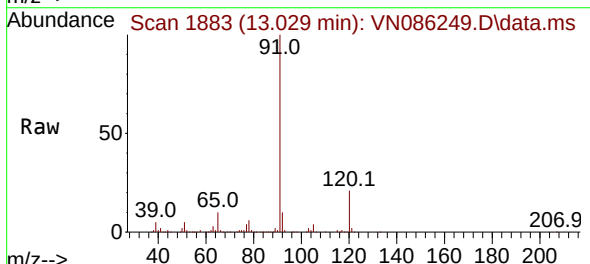
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

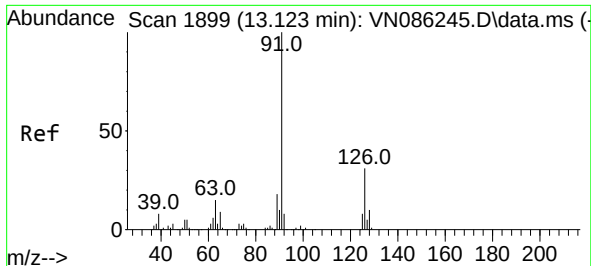
Tgt Ion:156 Resp: 53692
Ion Ratio Lower Upper
156 100
77 255.8 0.0 505.2
158 96.7 0.0 195.0



#74
n-propylbenzene
Concen: 21.231 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 91 Resp: 295354
Ion Ratio Lower Upper
91 100
120 21.6 0.0 44.0

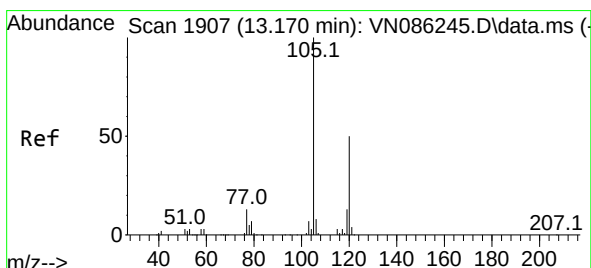
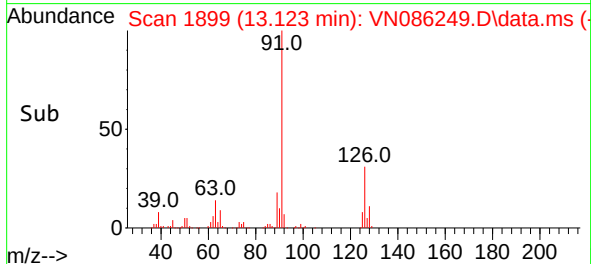
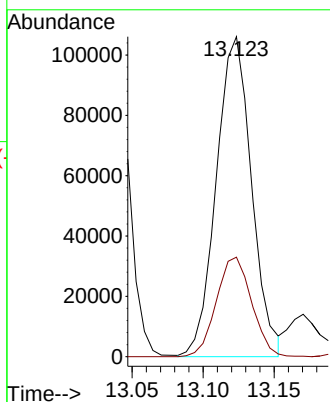
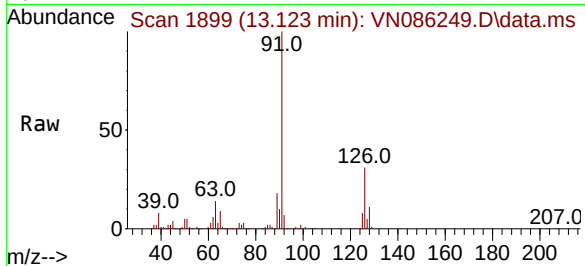




#75
2-Chlorotoluene
Concen: 20.961 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

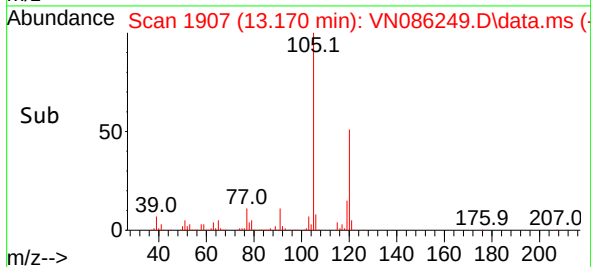
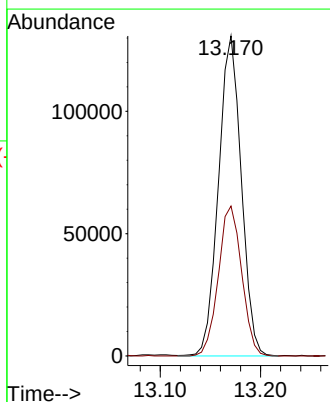
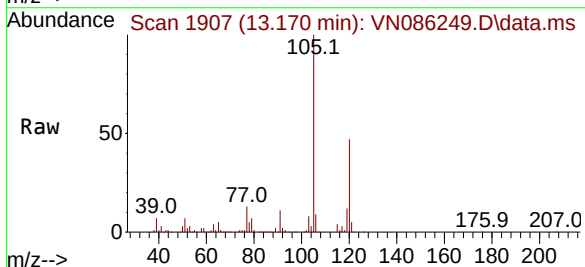
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

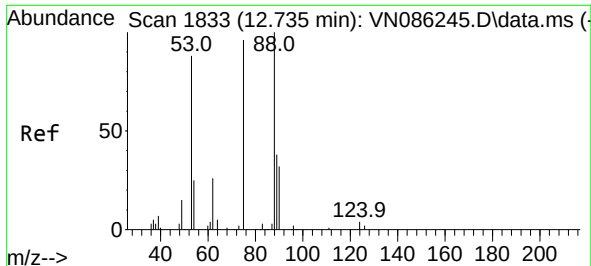
Tgt Ion: 91 Resp: 183287
Ion Ratio Lower Upper
91 100
126 31.0 0.0 63.4



#76
1,3,5-Trimethylbenzene
Concen: 21.352 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 105 Resp: 206643
Ion Ratio Lower Upper
105 100
120 47.8 0.0 98.0

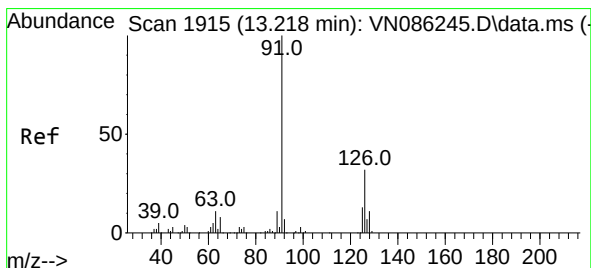
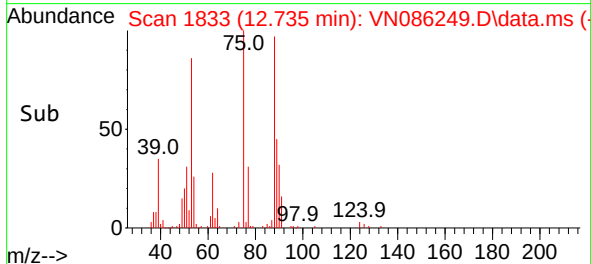
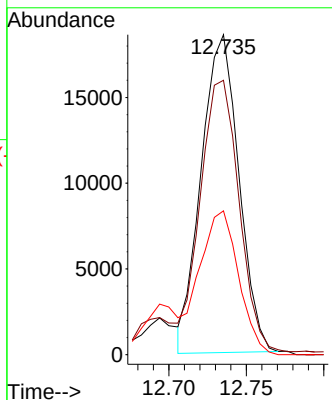
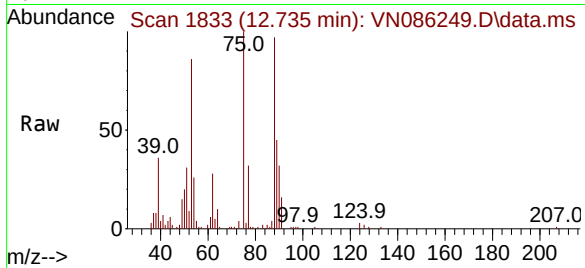




#77
t-1,4-Dichloro-2-butene
Concen: 19.426 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

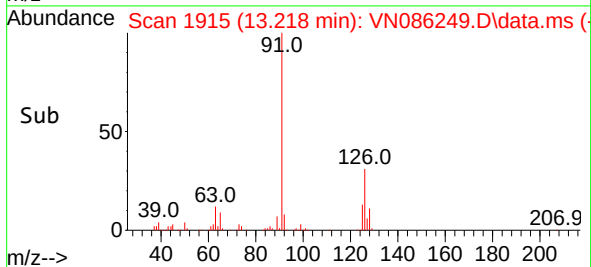
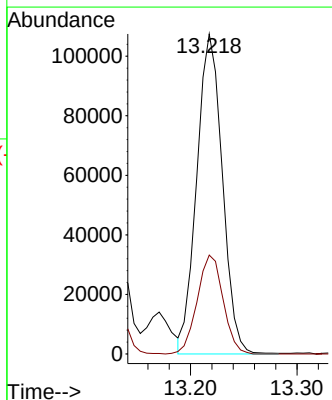
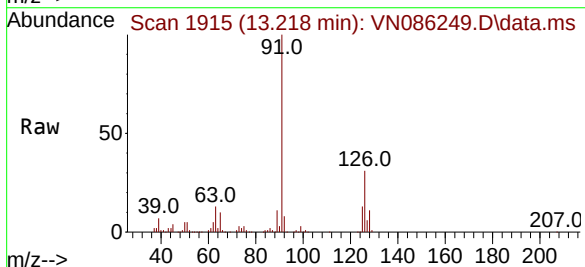
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

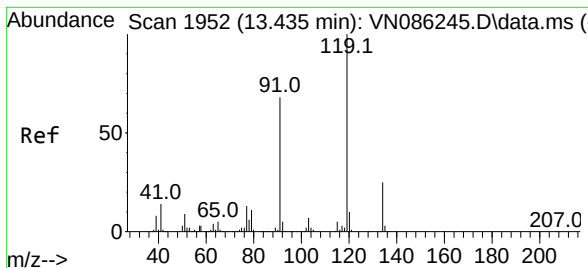
Tgt Ion: 75 Resp: 31266
Ion Ratio Lower Upper
75 100
53 85.1 46.4 139.2
89 45.4 22.5 67.5



#78
4-Chlorotoluene
Concen: 20.589 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 91 Resp: 179801
Ion Ratio Lower Upper
91 100
126 31.2 0.0 63.2

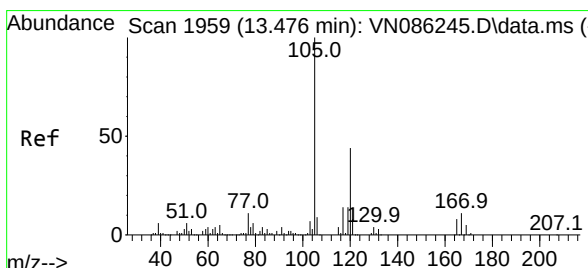
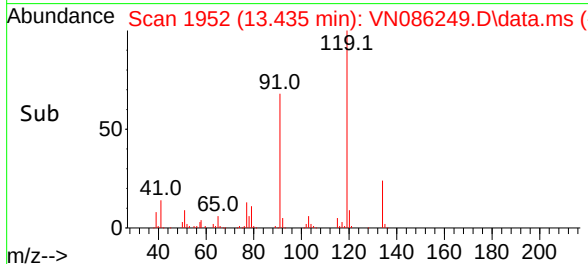
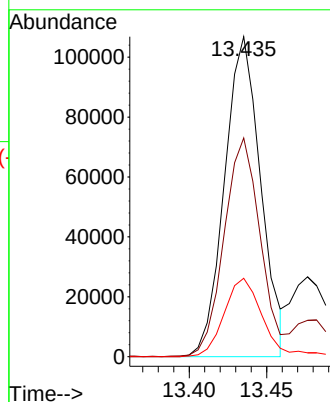
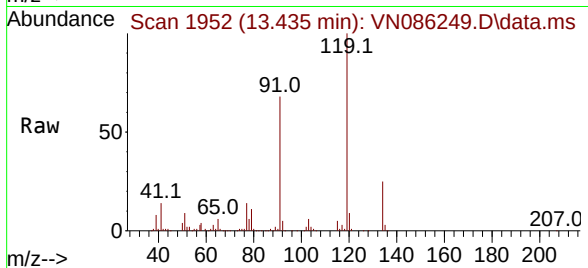




#79
tert-butylbenzene
Concen: 20.714 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

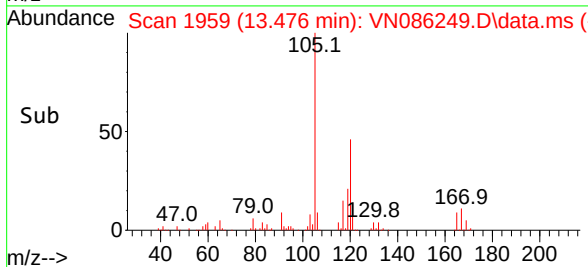
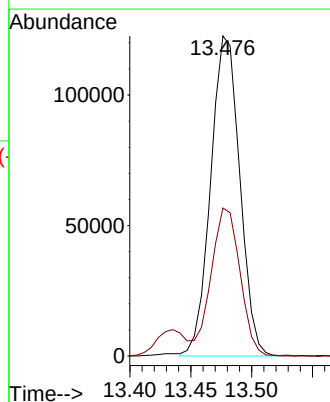
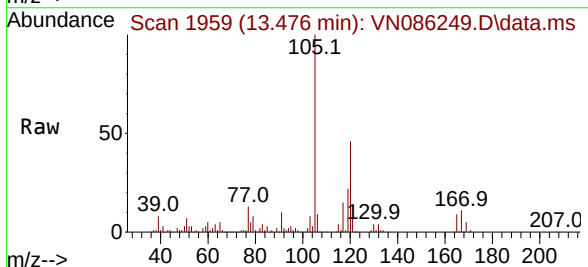
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

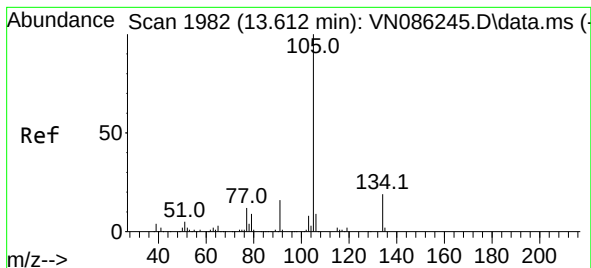
Tgt Ion:119 Resp: 173459
Ion Ratio Lower Upper
119 100
91 67.9 0.0 136.6
134 26.2 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 20.782 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:105 Resp: 203945
Ion Ratio Lower Upper
105 100
120 46.4 0.0 91.0





#81

sec-Butylbenzene

Concen: 21.354 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

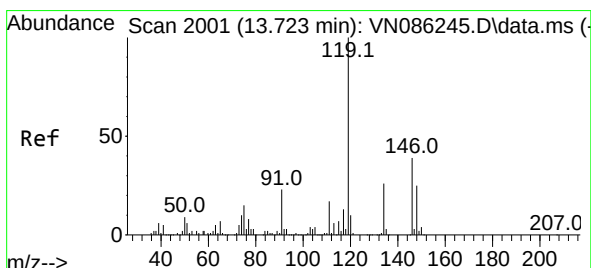
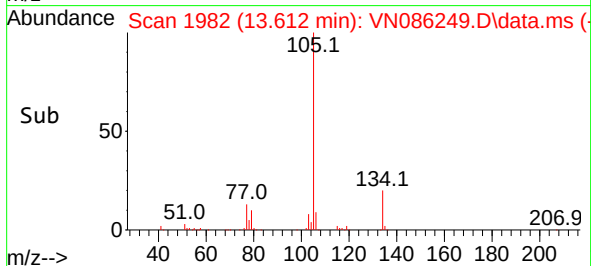
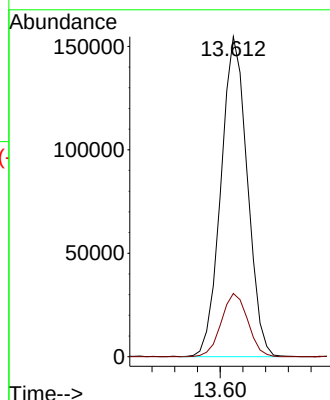
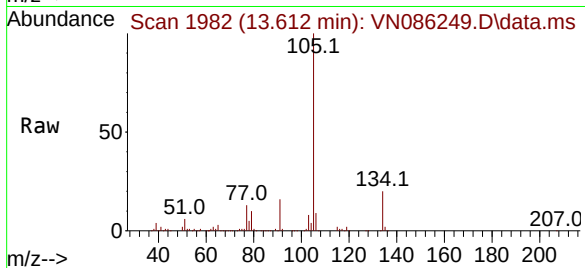
VN0411WBS01

Tgt Ion:105 Resp: 249442

Ion Ratio Lower Upper

105 100

134 19.8 0.0 38.6



#82

p-Isopropyltoluene

Concen: 21.296 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

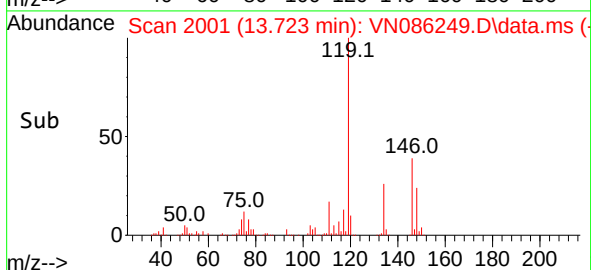
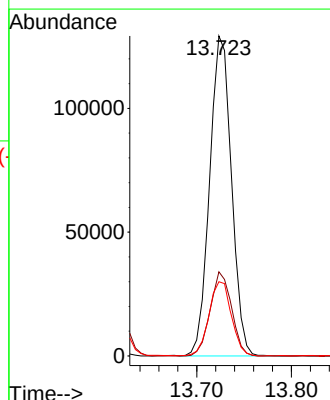
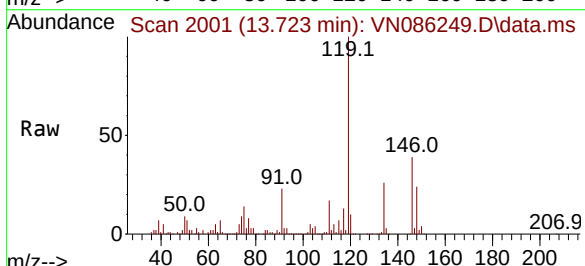
Tgt Ion:119 Resp: 207519

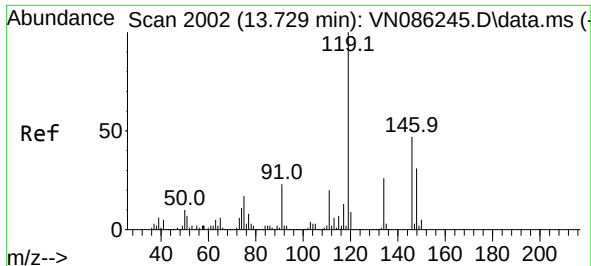
Ion Ratio Lower Upper

119 100

134 25.7 0.0 51.6

91 23.9 0.0 48.2

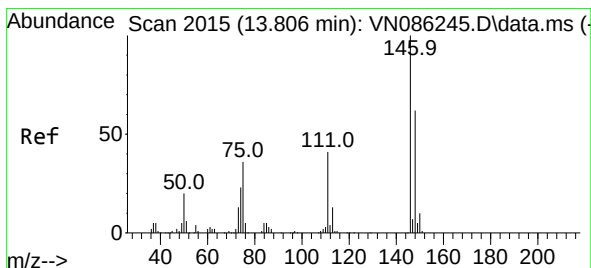
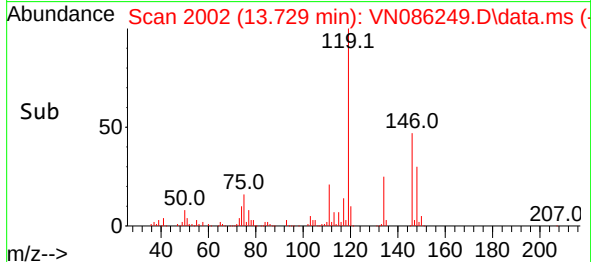
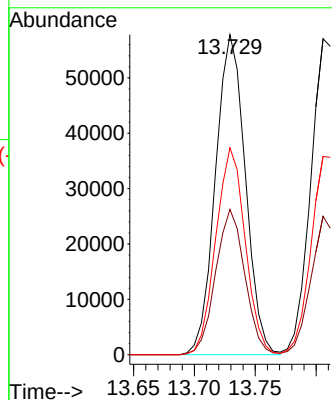
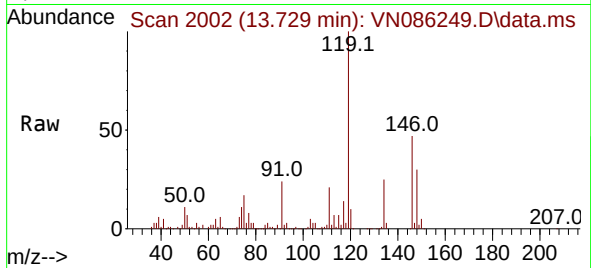




#83
 1,3-Dichlorobenzene
 Concen: 20.374 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

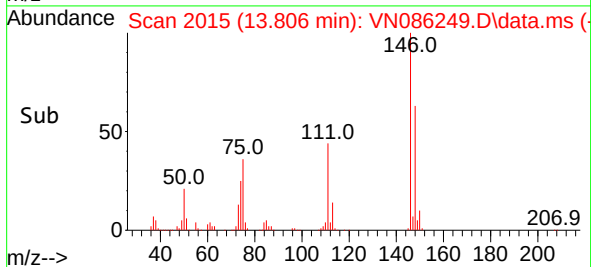
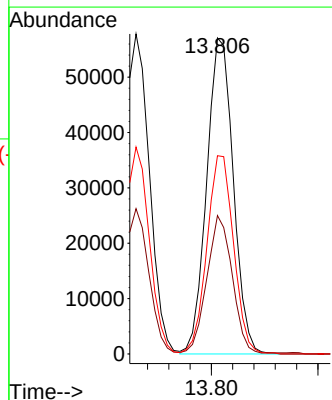
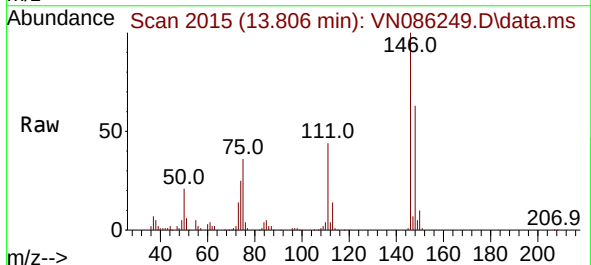
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

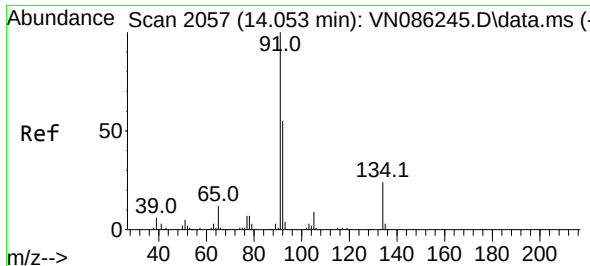
Tgt Ion:146 Resp: 98830
 Ion Ratio Lower Upper
 146 100
 111 44.4 21.7 65.1
 148 63.5 32.3 96.8



#84
 1,4-Dichlorobenzene
 Concen: 20.383 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion:146 Resp: 99189
 Ion Ratio Lower Upper
 146 100
 111 41.9 20.8 62.4
 148 62.9 31.9 95.5

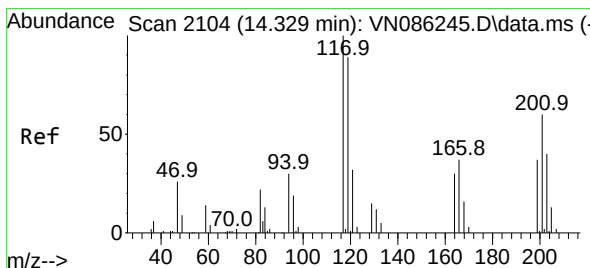
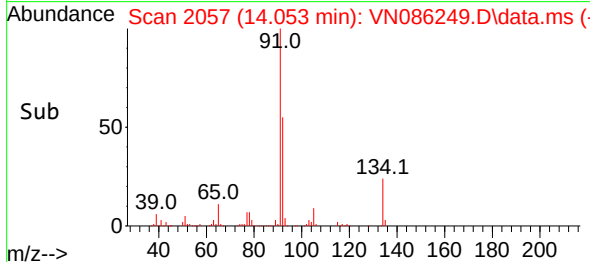
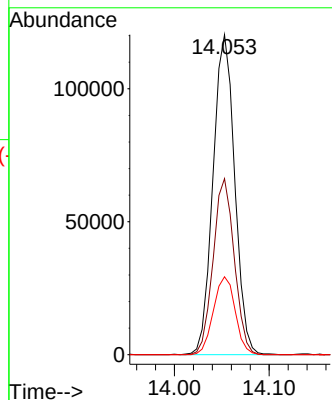
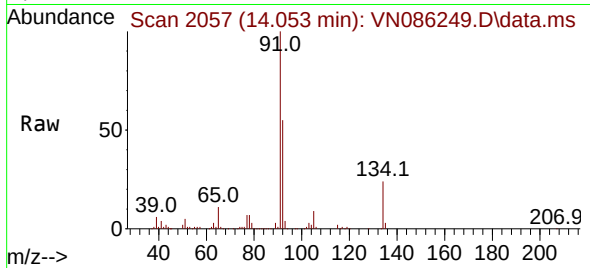




#85
n-Butylbenzene
Concen: 21.761 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

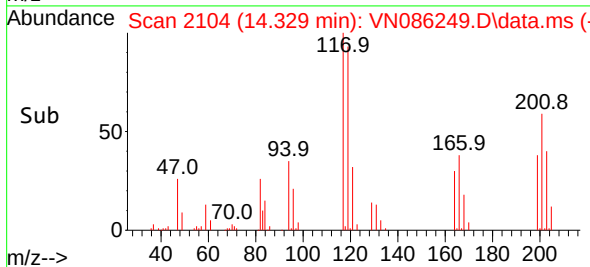
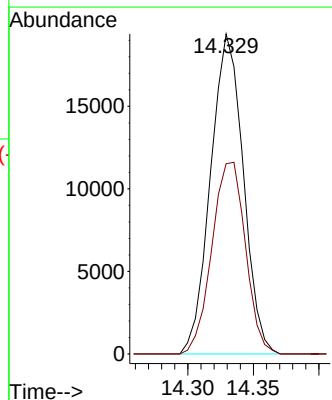
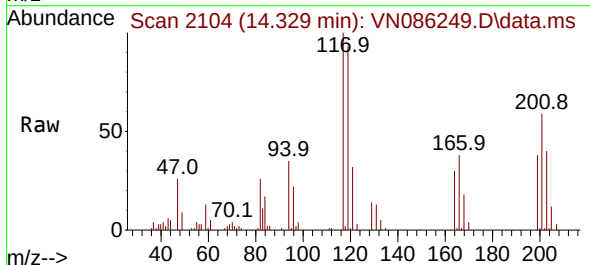
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

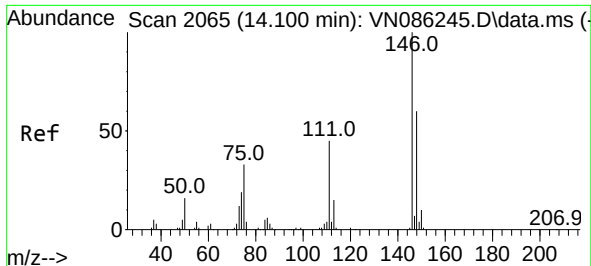
Tgt Ion: 91 Resp: 191298
Ion Ratio Lower Upper
91 100
92 53.6 0.0 109.4
134 24.5 0.0 48.2



#86
Hexachloroethane
Concen: 20.435 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion: 117 Resp: 33590
Ion Ratio Lower Upper
117 100
201 61.5 30.9 92.8

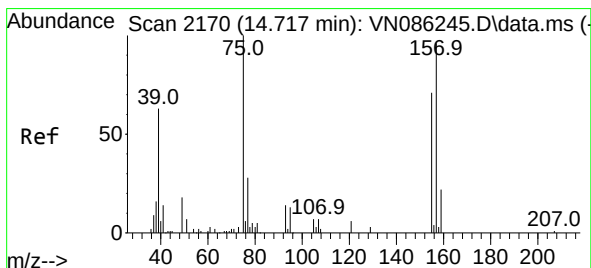
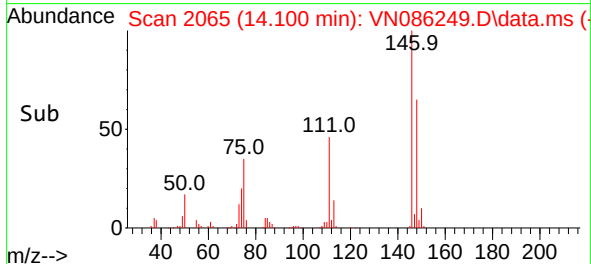
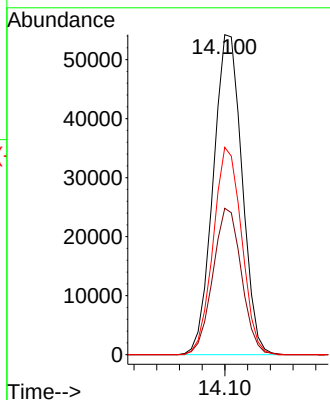
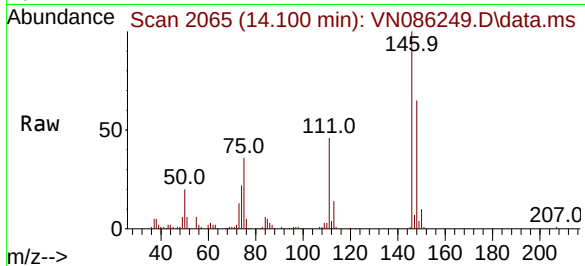




#87
 1,2-Dichlorobenzene
 Concen: 19.953 ug/l
 RT: 14.100 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

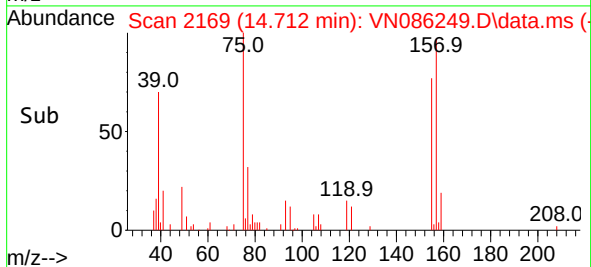
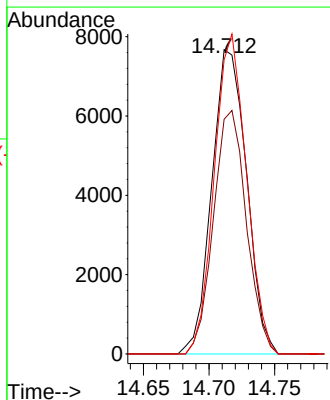
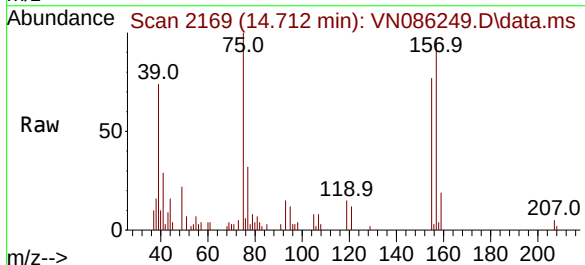
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

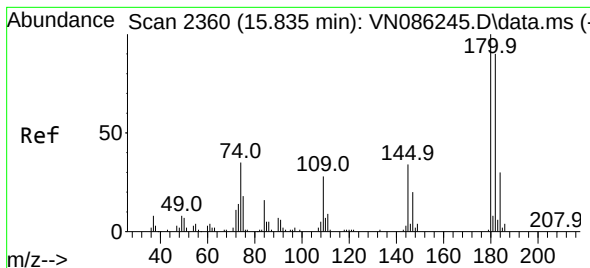
Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.5	22.7	68.0
148	64.0	31.8	95.3



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.539 ug/l
 RT: 14.712 min Scan# 2169
 Delta R.T. -0.006 min
 Lab File: VN086249.D
 Acq: 11 Apr 2025 14:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.9	60.3	90.5
157	97.1	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 19.736 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBS01

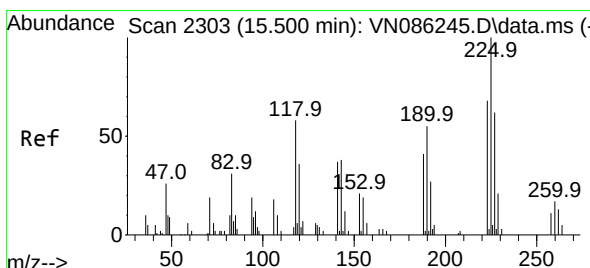
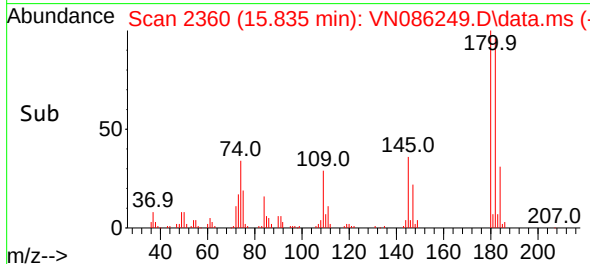
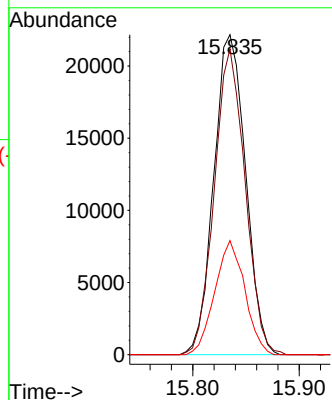
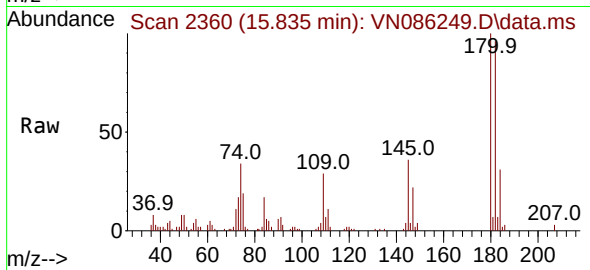
Tgt Ion:180 Resp: 45993

Ion Ratio Lower Upper

180 100

182 92.4 75.1 112.7

145 33.7 27.1 40.7



#90

Hexachlorobutadiene

Concen: 19.154 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086249.D

Acq: 11 Apr 2025 14:38

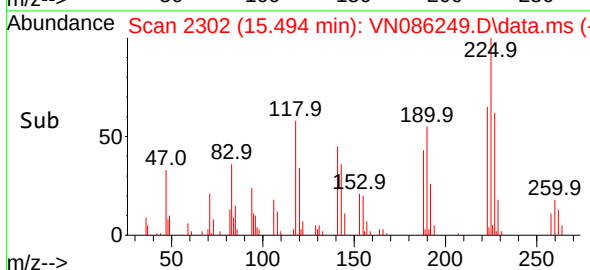
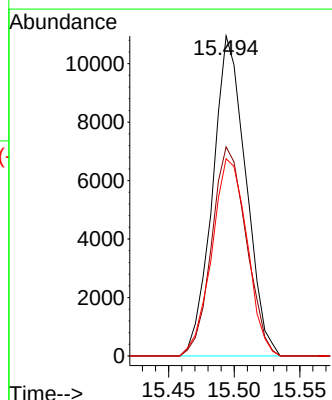
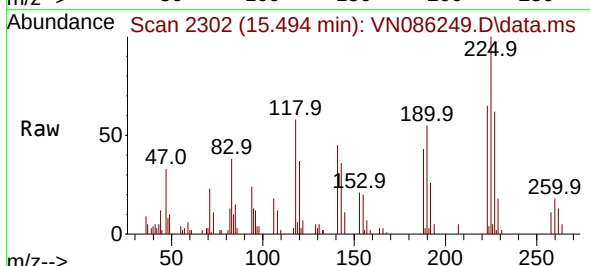
Tgt Ion:225 Resp: 19273

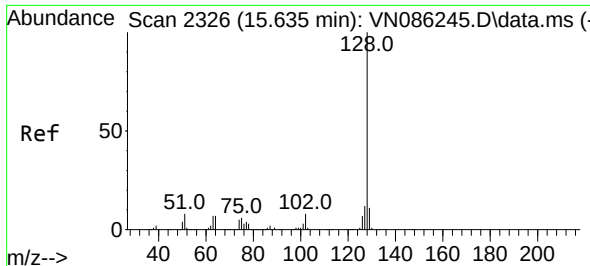
Ion Ratio Lower Upper

225 100

223 67.9 0.0 130.0

227 65.2 0.0 123.2

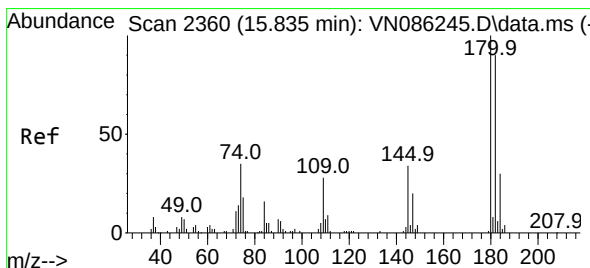
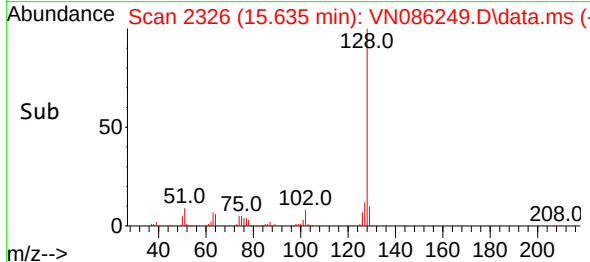
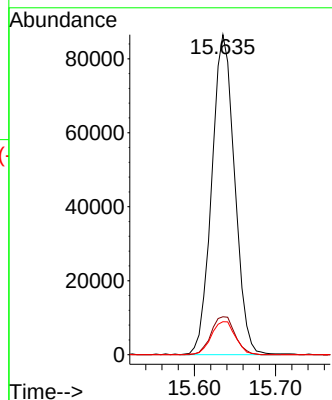
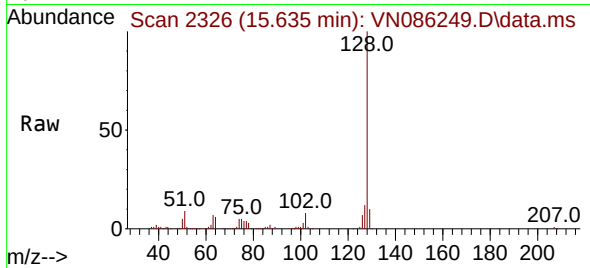




#91
Naphthalene
Concen: 18.449 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

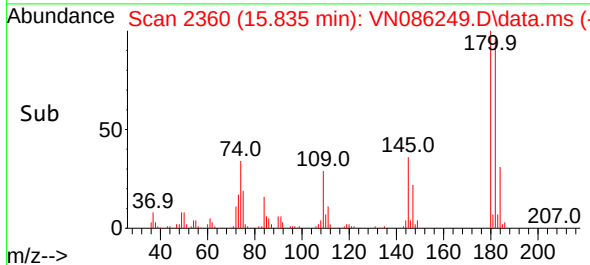
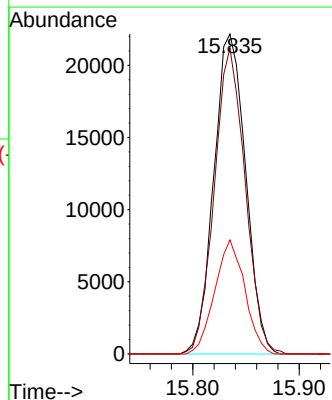
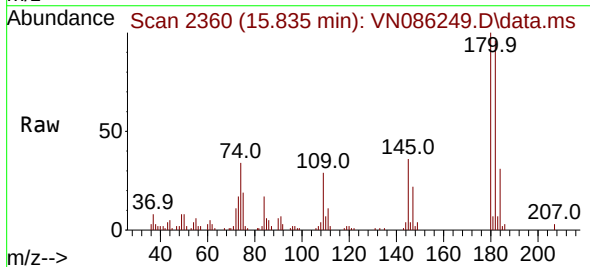
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBS01

Tgt Ion:128 Resp: 169515
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.9 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 19.736 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086249.D
Acq: 11 Apr 2025 14:38

Tgt Ion:180 Resp: 45993
Ion Ratio Lower Upper
180 100
182 92.4 0.0 187.8
145 33.7 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086250.D
 Acq On : 11 Apr 2025 15:16
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Quant Time: Apr 12 01:49:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34735	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	202525	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	180363	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	102343	30.208	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.700%
60) 4-Bromofluorobenzene	12.847	95	106256	29.590	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.633%
63) Toluene-d8	10.565	98	303469	29.803	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.333%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	56086	20.153	ug/l	92
3) Chloromethane	2.359	50	73828	19.194	ug/l	98
4) Vinyl Chloride	2.518	62	70644	19.281	ug/l	93
5) Bromomethane	2.965	94	35079	19.194	ug/l	100
6) Chloroethane	3.124	64	44166	19.089	ug/l	96
7) Trichlorofluoromethane	3.500	101	77277	19.443	ug/l	96
8) Diethyl Ether	3.959	74	38725	21.128	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	48170	19.655	ug/l	98
10) 1,1-Dichloroethene	4.341	96	50453	19.075	ug/l	98
11) Methyl Iodide	4.589	142	58142	19.126	ug/l	99
12) Methyl Acetate	5.018	43	77938	20.867	ug/l	99
13) Acrolein	4.177	56	41459	97.652	ug/l	95
14) Acrylonitrile	5.718	53	157824	100.092	ug/l	98
15) Acetone	4.424	58	40914	102.336	ug/l	90
16) Carbon Disulfide	4.712	76	144392	19.038	ug/l	98
17) Allyl chloride	5.018	41	93530	20.289	ug/l	96
18) Methylene Chloride	5.271	84	60034	19.908	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	52359	18.794	ug/l	97
20) Diisopropyl ether	6.671	45	208832	21.072	ug/l	97
21) 1,1-Dichloroethane	6.565	63	106033	20.053	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	65216	19.651	ug/l	99
23) tert-Butyl Alcohol	5.512	59	63490	97.177	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	201155	21.074	ug/l	98
25) Chloroform	7.965	83	100265	19.885	ug/l	96
26) Cyclohexane	8.253	56	95525	19.310	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	74865	20.635	ug/l	98
30) 2-Butanone	7.477	43	214454	106.676	ug/l	100
31) 2,2-Dichloropropane	7.488	77	92014	20.604	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	84856	20.333	ug/l	99
33) Carbon Tetrachloride	8.359	117	68854	20.645	ug/l	98
34) Benzene	8.606	78	240477	20.834	ug/l	97
35) Methacrylonitrile	7.777	41	48115	21.230	ug/l	97
36) 1,2-Dichloroethane	8.671	62	77436	21.439	ug/l	99
37) Trichloroethene	9.347	130	57010	20.471	ug/l	97
38) Methylcyclohexane	9.600	83	89548	20.125	ug/l	99
39) 1,2-Dichloropropane	9.618	63	61439	21.392	ug/l	96
40) Dibromomethane	9.706	93	39298	21.185	ug/l	99
41) Bromodichloromethane	9.888	83	84468	21.197	ug/l	98
42) Vinyl Acetate	6.600	43	753748	110.147	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086250.D
 Acq On : 11 Apr 2025 15:16
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Quant Time: Apr 12 01:49:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

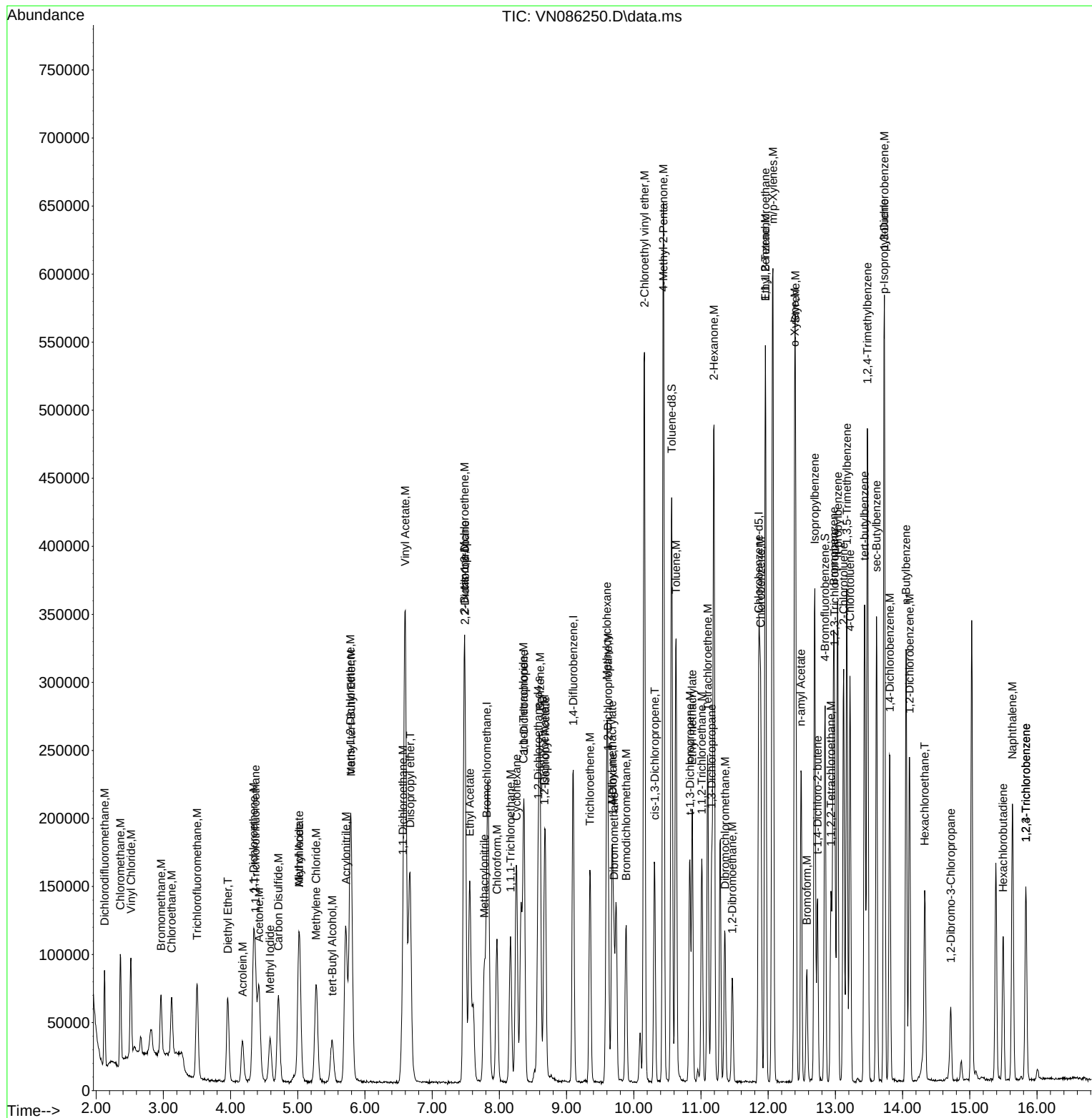
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	84905	20.939	ug/l	95
44) Isopropyl Acetate	8.682	43	160910	21.391	ug/l	99
45) 1,4-Dioxane	9.688	88	23420	391.526	ug/l #	91
46) Methyl methacrylate	9.676	41	69895	21.088	ug/l	96
47) n-amyl Acetate	12.488	43	126575	21.222	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	96458	21.411	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	102066	21.406	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	56096	21.561	ug/l	97
51) Ethyl methacrylate	10.870	69	105140	21.747	ug/l	97
52) 1,3-Dichloropropane	11.159	76	101323	21.850	ug/l	100
53) Dibromochloromethane	11.359	129	61771	21.706	ug/l	98
54) 1,2-Dibromoethane	11.465	107	56526	21.523	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	254446	139.276	ug/l	99
56) Bromoform	12.576	173	38804	20.842	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	446372	109.058	ug/l	99
59) 2-Hexanone	11.194	43	321747	105.569	ug/l	100
61) Tetrachloroethene	11.100	164	53974	20.264	ug/l	97
62) Toluene	10.629	91	250492	20.706	ug/l	100
64) Chlorobenzene	11.888	112	152512	20.635	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	51756	21.219	ug/l	99
66) Ethyl Benzene	11.959	91	271487	20.236	ug/l	96
67) m/p-Xylenes	12.070	106	203138	40.720	ug/l	100
68) o-Xylene	12.394	106	102269	20.842	ug/l	97
69) Styrene	12.406	104	172721	20.872	ug/l	98
70) Isopropylbenzene	12.694	105	247015	20.417	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	74426	21.612	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	112068	31.263	ug/l	58
73) Bromobenzene	12.976	156	55372	20.660	ug/l	97
74) n-propylbenzene	13.035	91	290430	20.330	ug/l	99
75) 2-Chlorotoluene	13.123	91	180253	20.074	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	203242	20.450	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	33778	20.436	ug/l	92
78) 4-Chlorotoluene	13.217	91	179336	19.997	ug/l	99
79) tert-butylbenzene	13.435	119	170326	19.806	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	206236	20.464	ug/l	98
81) sec-Butylbenzene	13.611	105	242336	20.202	ug/l	100
82) p-Isopropyltoluene	13.723	119	201123	20.098	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	101287	20.332	ug/l	98
84) 1,4-Dichlorobenzene	13.811	146	100671	20.144	ug/l	99
85) n-Butylbenzene	14.053	91	183068	20.279	ug/l	99
86) Hexachloroethane	14.329	117	32907	19.494	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	100901	20.514	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16110	20.539	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	48993	20.472	ug/l	99
90) Hexachlorobutadiene	15.494	225	19853	19.213	ug/l	99
91) Naphthalene	15.635	128	194900	20.655	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	48993	20.472	ug/l	99

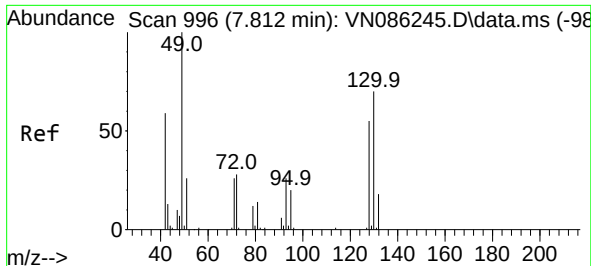
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN086250.D
Acq On : 11 Apr 2025 15:16
Operator : JC\MD
Sample : VN0411WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Quant Time: Apr 12 01:49:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

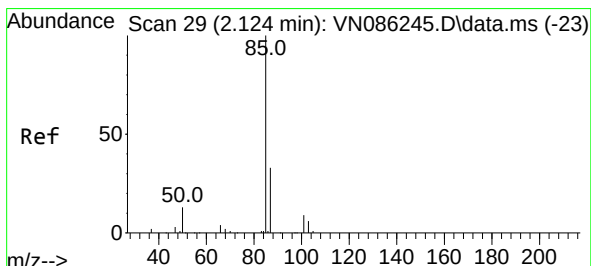
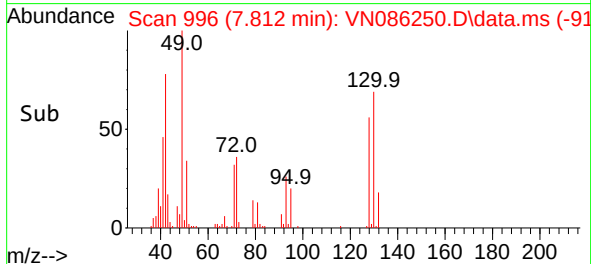
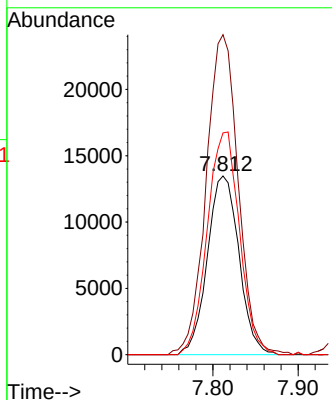
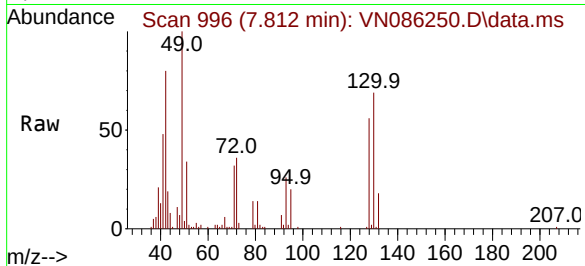




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

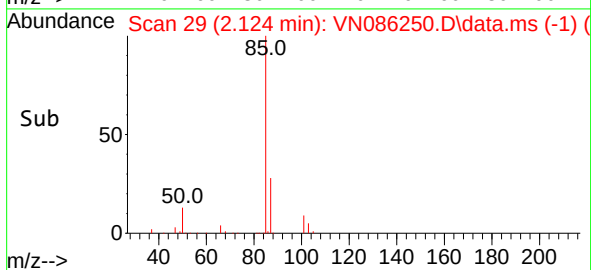
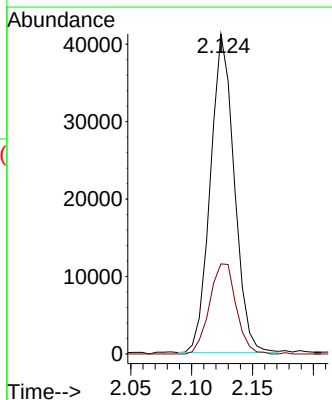
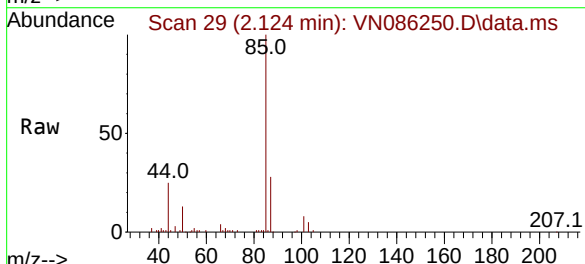
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

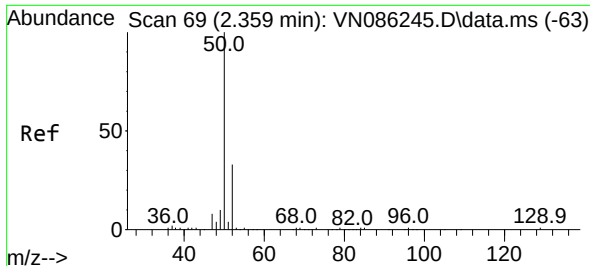
Tgt Ion:128 Resp: 34735
Ion Ratio Lower Upper
128 100
49 181.2 0.0 452.5
130 127.0 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 20.153 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 85 Resp: 56086
Ion Ratio Lower Upper
85 100
87 28.3 16.3 48.9

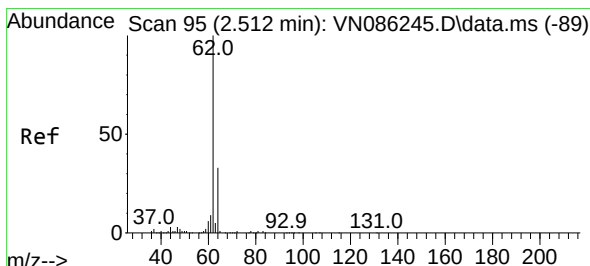
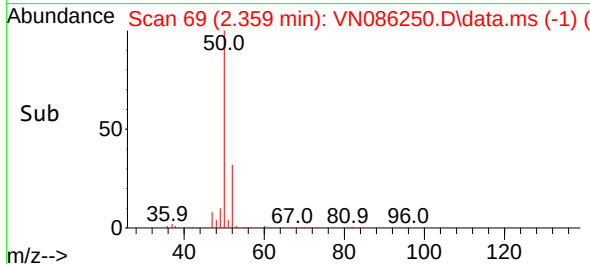
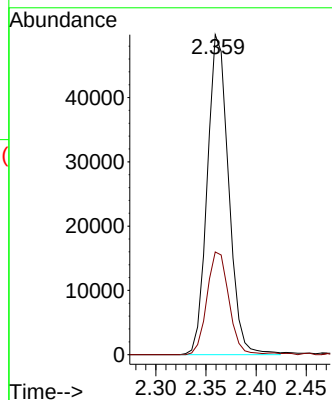
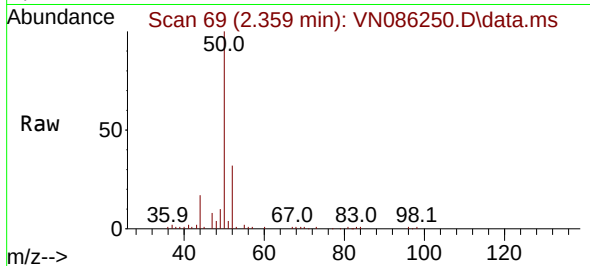




#3
Chloromethane
Concen: 19.194 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

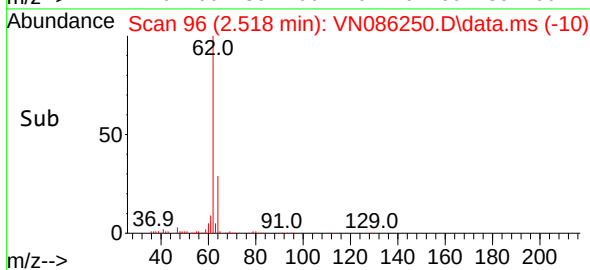
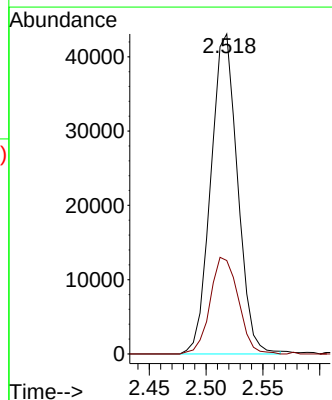
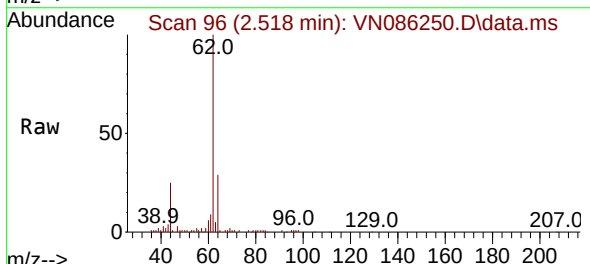
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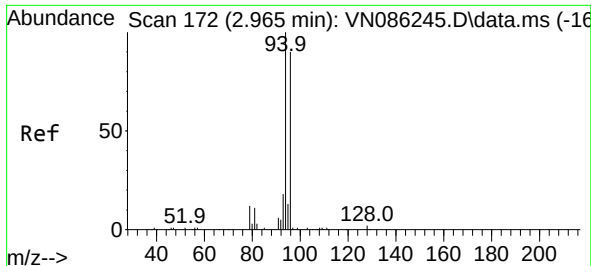
Tgt Ion: 50 Resp: 73828
Ion Ratio Lower Upper
50 100
52 32.1 26.4 39.6



#4
Vinyl Chloride
Concen: 19.281 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 62 Resp: 70644
Ion Ratio Lower Upper
62 100
64 29.2 26.3 39.5

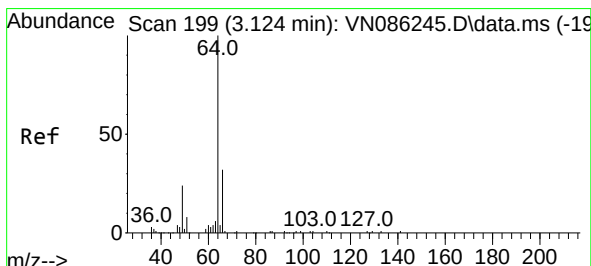
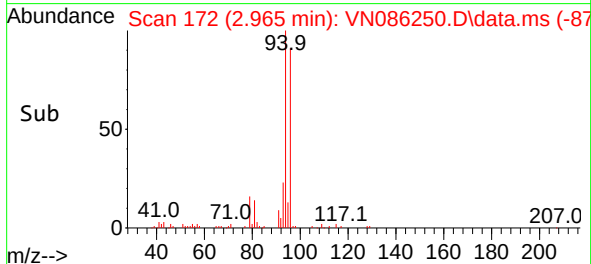
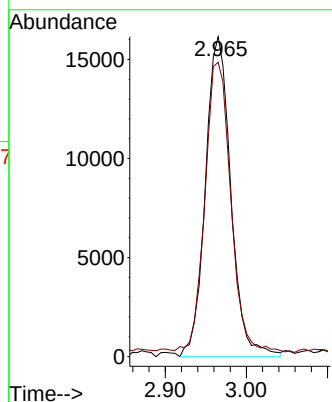
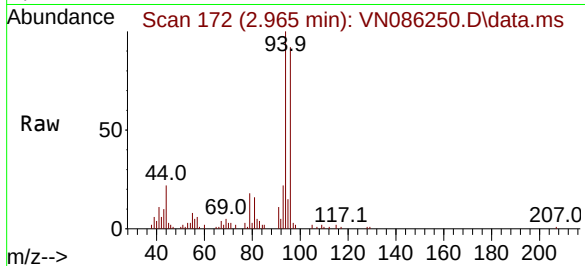




#5
Bromomethane
Concen: 19.194 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

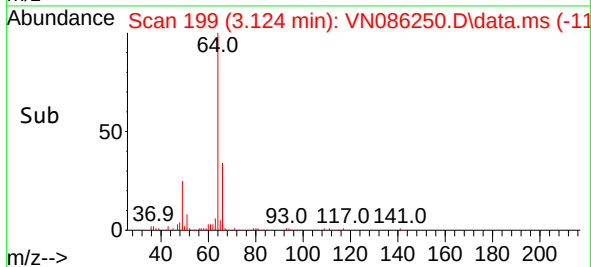
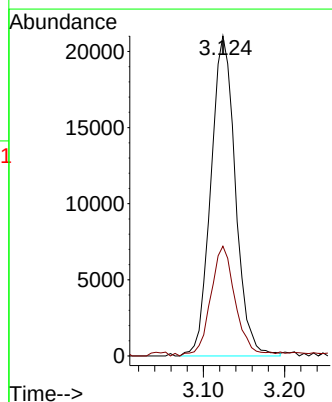
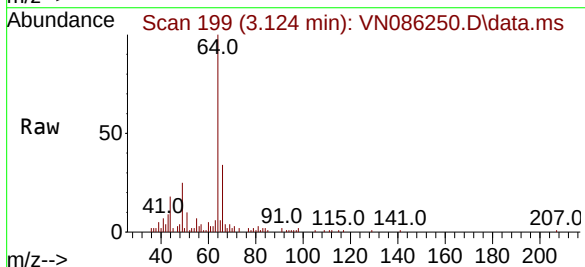
Instrument :
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ClientSampleId :
VN0411WBSD01

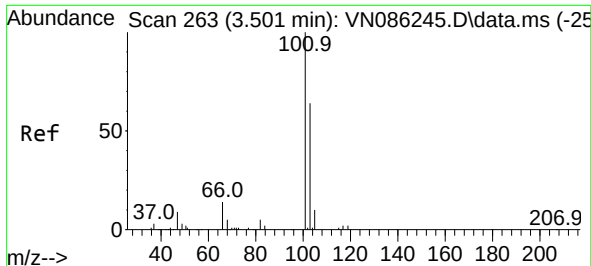
Tgt Ion: 94 Resp: 35079
Ion Ratio Lower Upper
94 100
96 90.0 72.2 108.2



#6
Chloroethane
Concen: 19.089 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 64 Resp: 44166
Ion Ratio Lower Upper
64 100
66 34.3 25.7 38.5

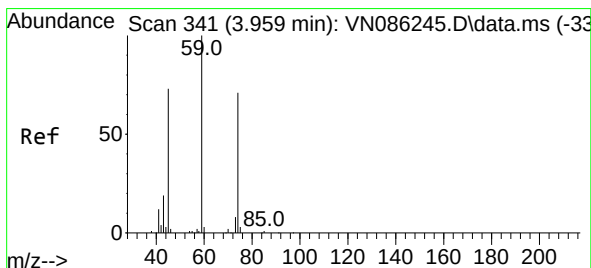
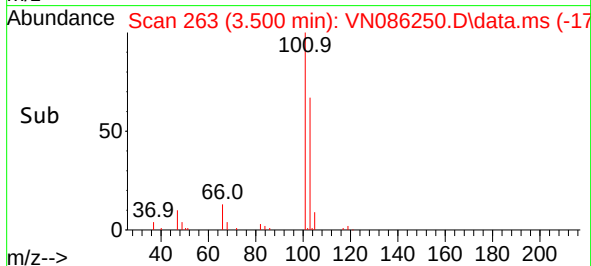
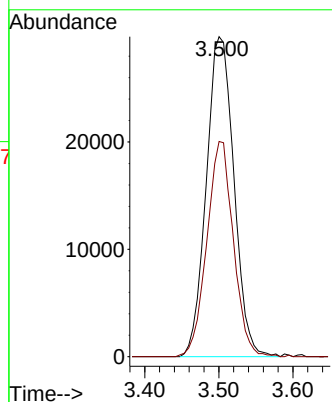
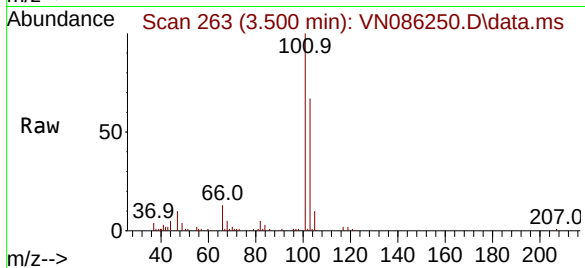




#7
 Trichlorofluoromethane
 Concen: 19.443 ug/l
 RT: 3.500 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

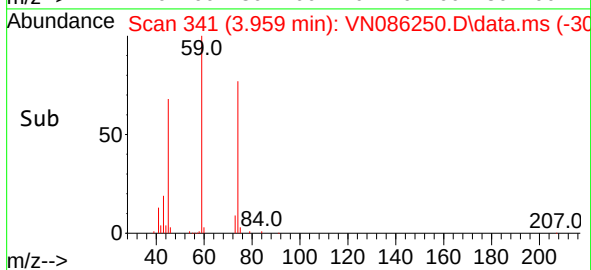
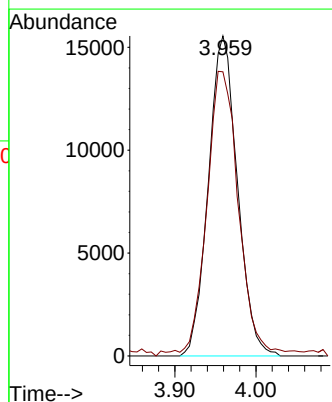
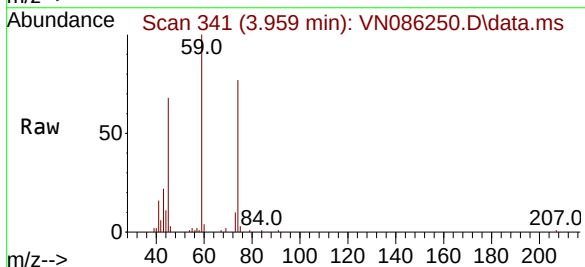
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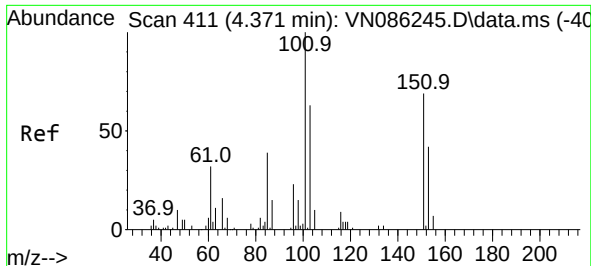
Tgt Ion:101 Resp: 77277
 Ion Ratio Lower Upper
 101 100
 103 67.2 51.2 76.8



#8
 Diethyl Ether
 Concen: 21.128 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

Tgt Ion: 74 Resp: 38725
 Ion Ratio Lower Upper
 74 100
 45 93.7 19.2 173.2

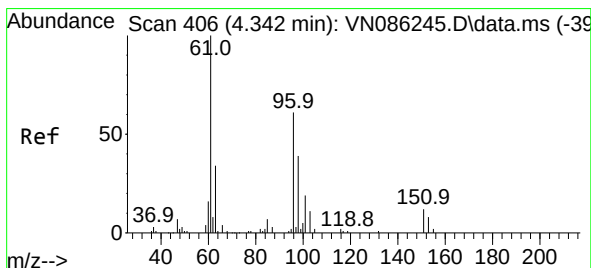
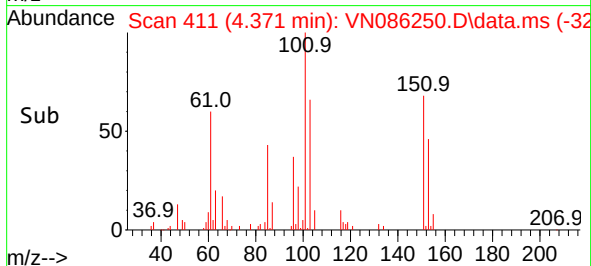
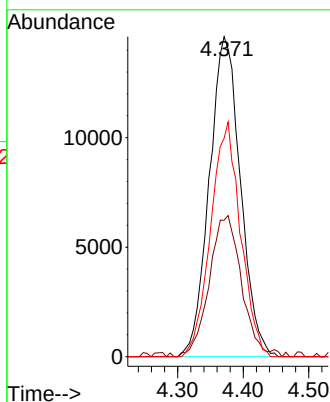
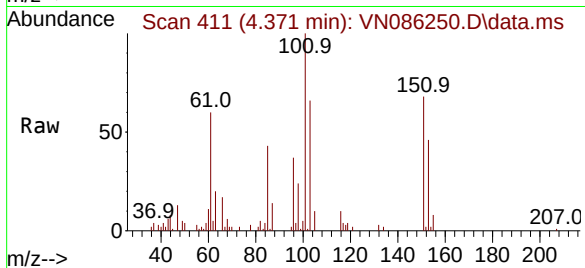




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.655 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

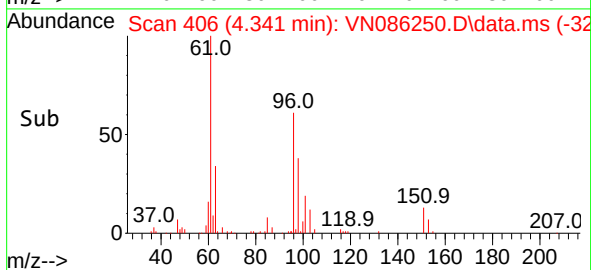
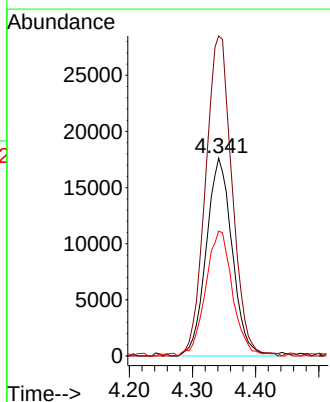
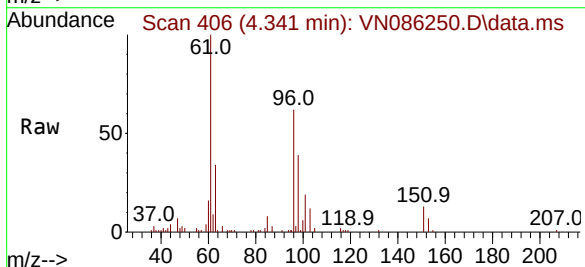
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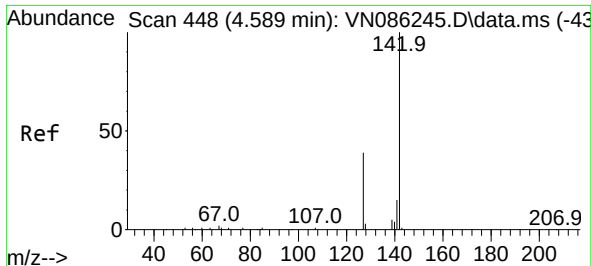
Tgt Ion:101 Resp: 48170
 Ion Ratio Lower Upper
 101 100
 85 45.2 0.0 93.0
 151 70.3 0.0 138.6



#10
 1,1-Dichloroethene
 Concen: 19.075 ug/l
 RT: 4.341 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

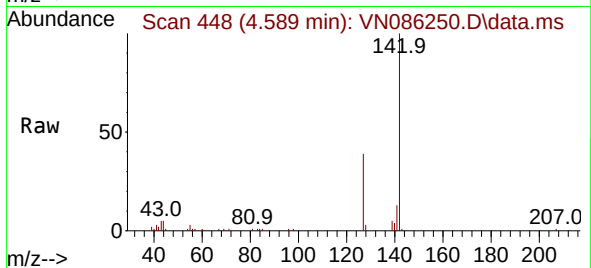
Tgt Ion: 96 Resp: 50453
 Ion Ratio Lower Upper
 96 100
 61 161.8 131.1 196.7
 98 63.1 51.6 77.4



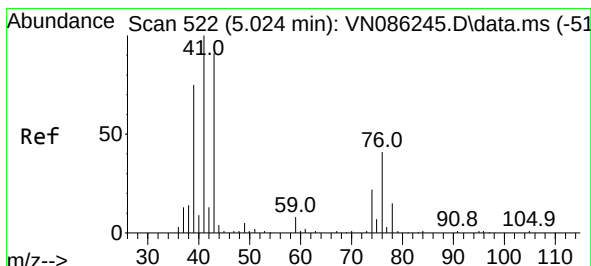
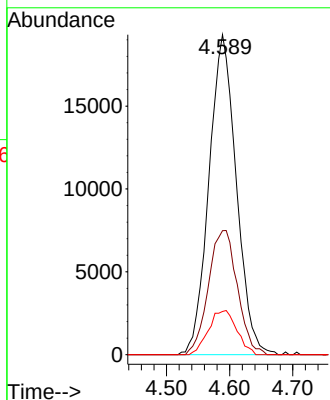
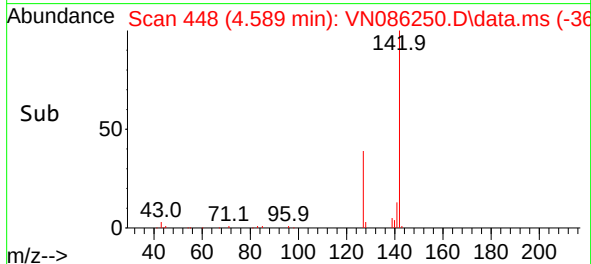


#11
Methyl Iodide
Concen: 19.126 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

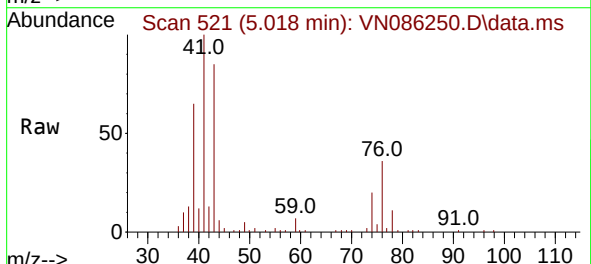
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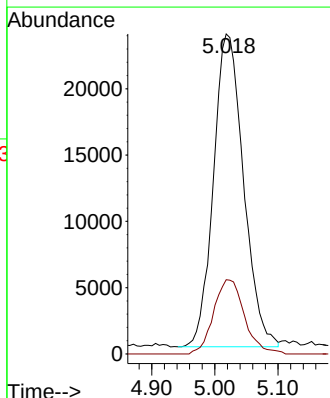
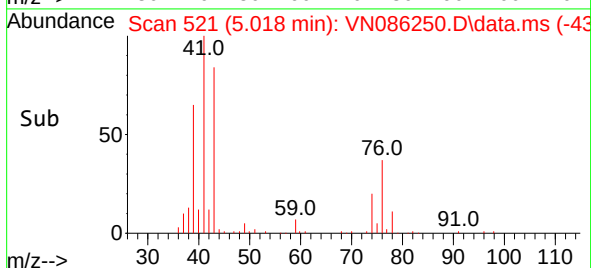
Tgt Ion:142 Resp: 58142
Ion Ratio Lower Upper
142 100
127 38.8 19.6 58.8
141 13.5 7.3 21.9

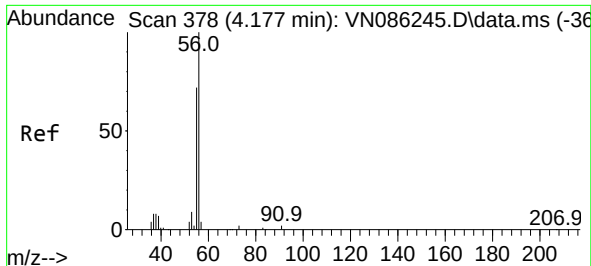


#12
Methyl Acetate
Concen: 20.867 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16



Tgt Ion: 43 Resp: 77938
Ion Ratio Lower Upper
43 100
74 23.4 19.1 28.7

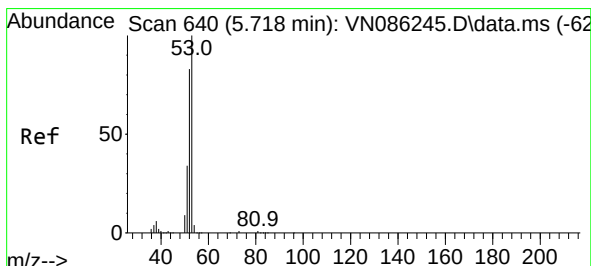
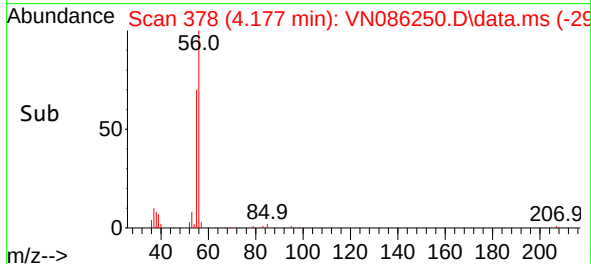
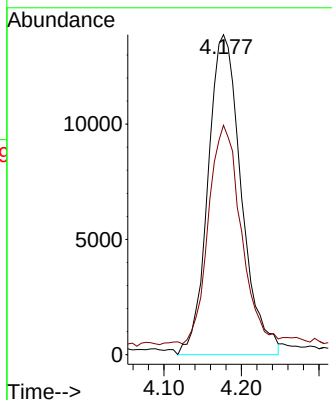
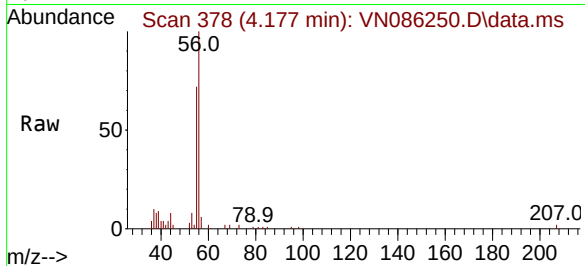




#13
Acrolein
Concen: 97.652 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

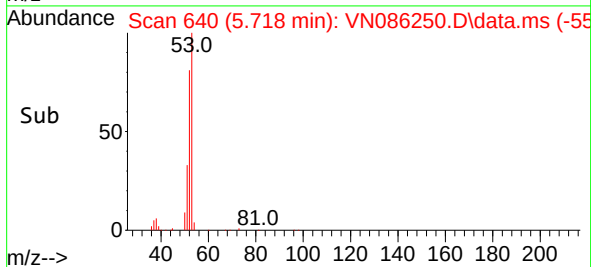
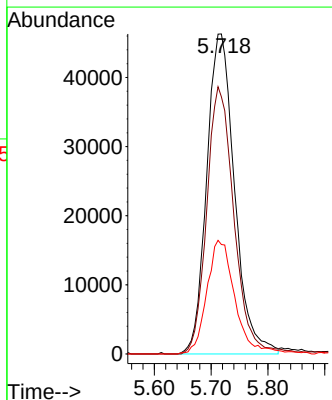
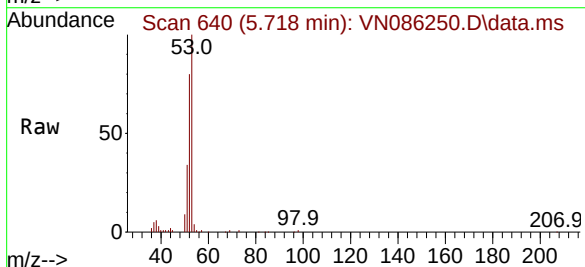
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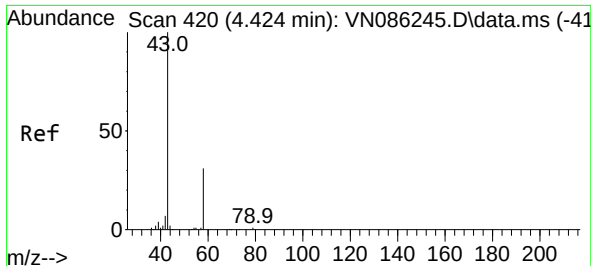
Tgt Ion: 56 Resp: 41459
Ion Ratio Lower Upper
56 100
55 66.9 56.5 84.7



#14
Acrylonitrile
Concen: 100.092 ug/l
RT: 5.718 min Scan# 640
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 53 Resp: 157824
Ion Ratio Lower Upper
53 100
52 81.6 40.2 120.6
51 33.9 17.5 52.6

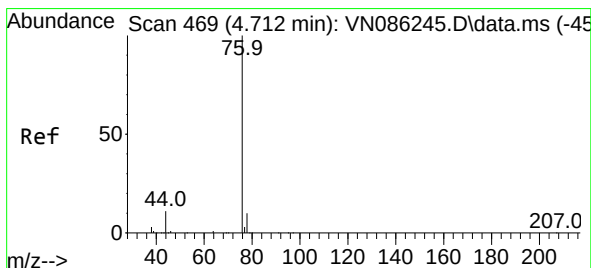
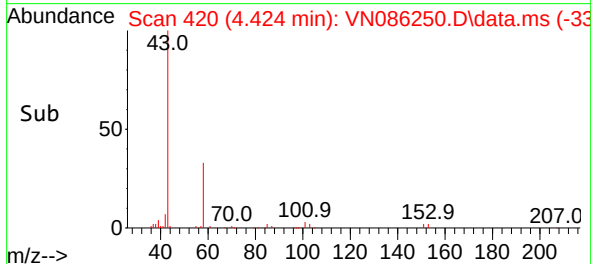
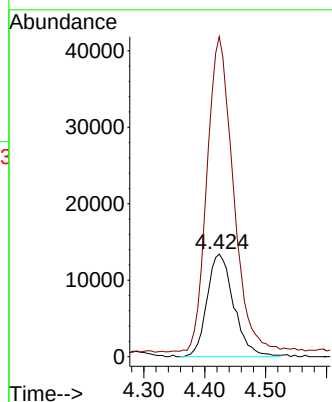
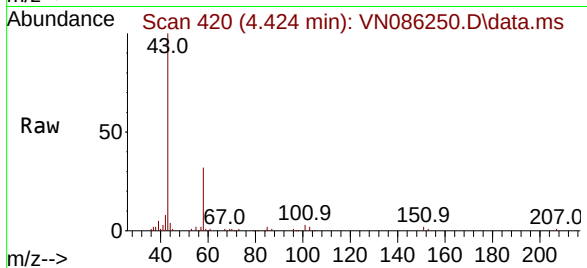




#15
Acetone
Concen: 102.336 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

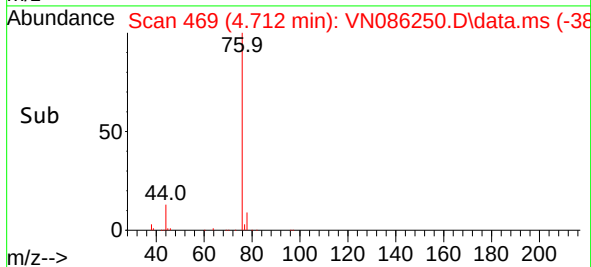
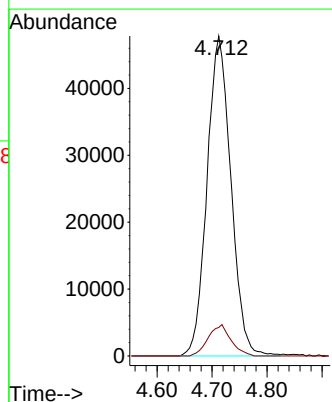
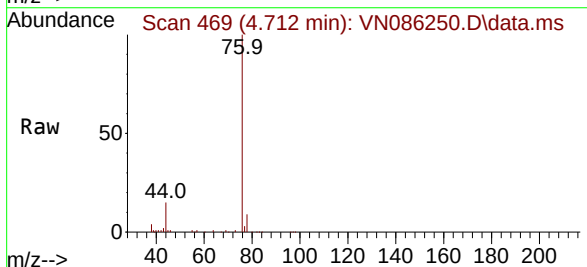
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

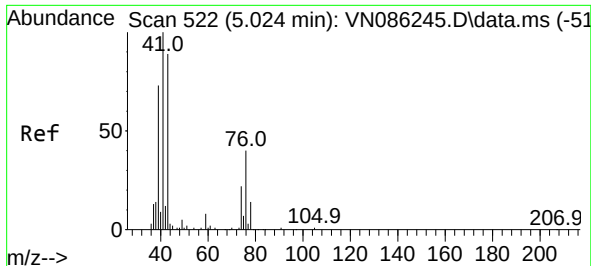
Tgt Ion: 58 Resp: 40914
Ion Ratio Lower Upper
58 100
43 306.6 261.8 392.8



#16
Carbon Disulfide
Concen: 19.038 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 76 Resp: 144392
Ion Ratio Lower Upper
76 100
78 8.9 7.7 11.5

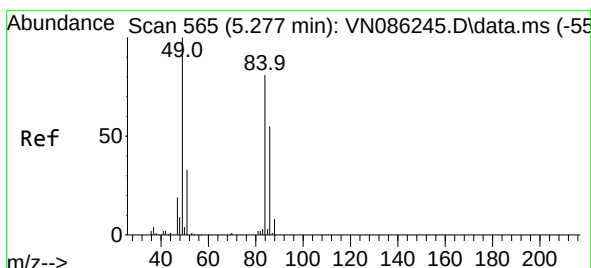
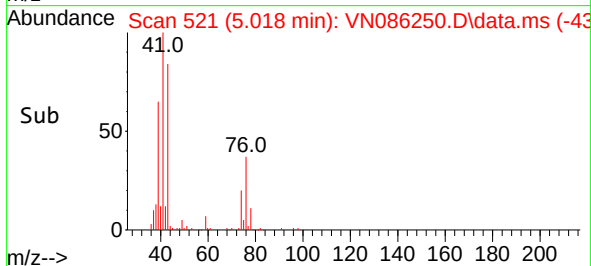
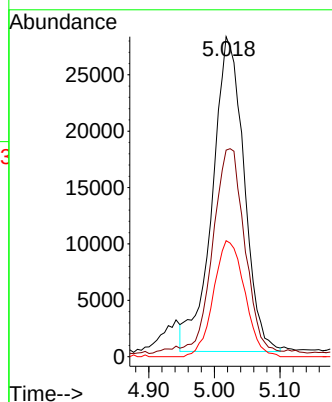
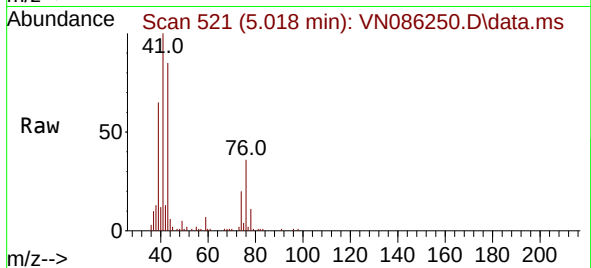




#17
 Allyl chloride
 Concen: 20.289 ug/l
 RT: 5.018 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

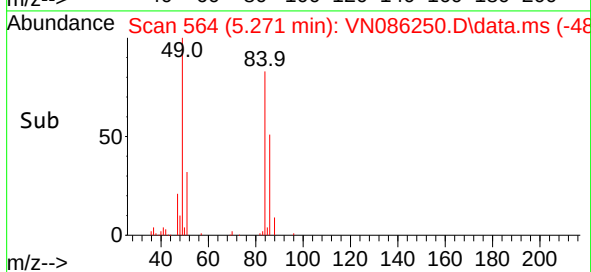
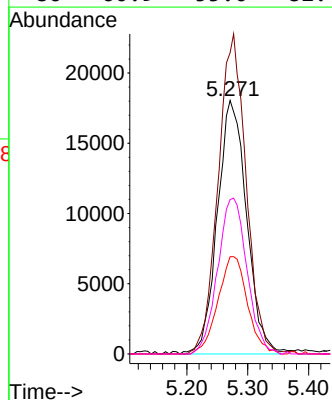
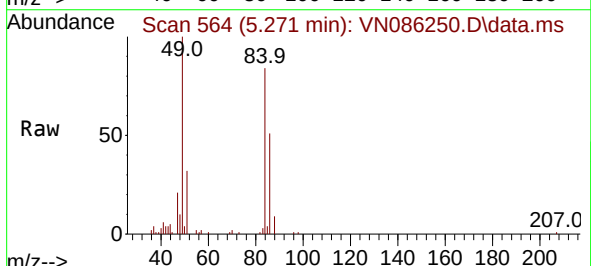
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

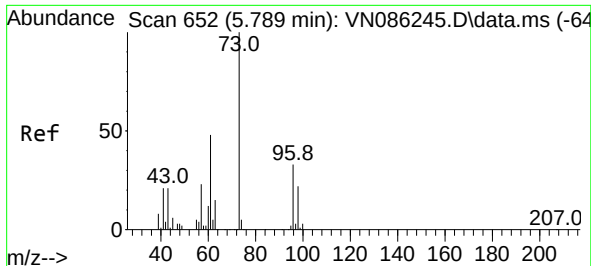
Tgt Ion: 41 Resp: 93530
 Ion Ratio Lower Upper
 41 100
 39 64.5 34.4 103.2
 76 37.2 18.8 56.3



#18
 Methylene Chloride
 Concen: 19.908 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. -0.006 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

Tgt Ion: 84 Resp: 60034
 Ion Ratio Lower Upper
 84 100
 49 118.9 99.1 148.7
 51 38.4 32.3 48.5
 86 60.9 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 18.794 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

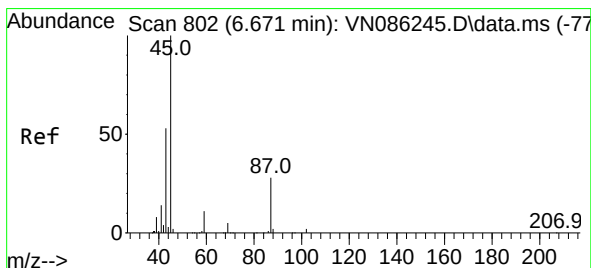
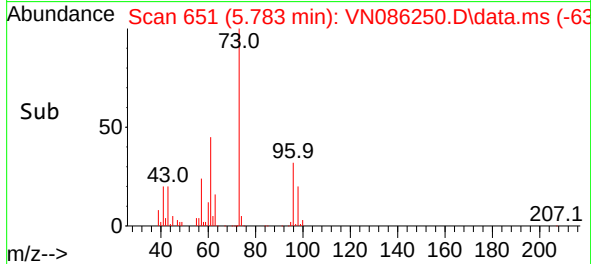
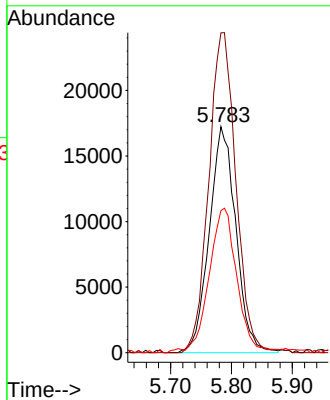
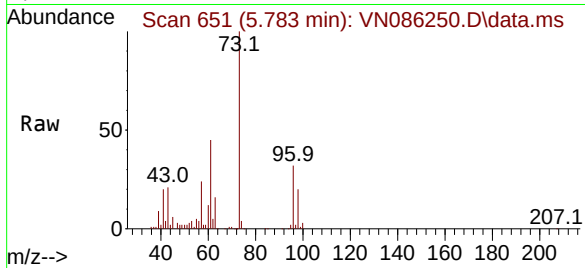
Tgt Ion: 96 Resp: 52359

Ion Ratio Lower Upper

96 100

61 141.6 115.9 173.9

98 61.4 52.1 78.1



#20

Diisopropyl ether

Concen: 21.072 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion: 45 Resp: 208832

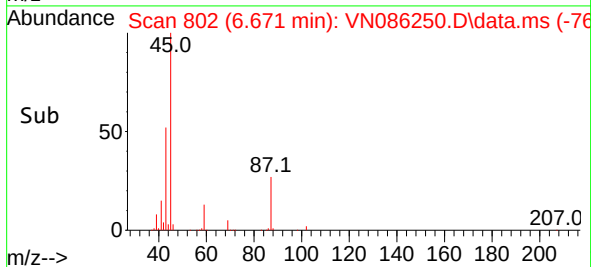
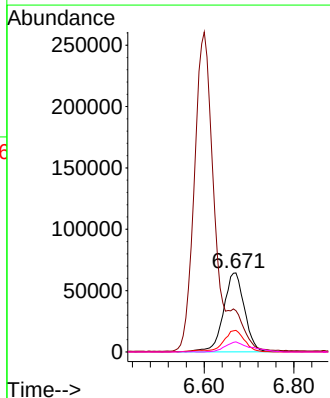
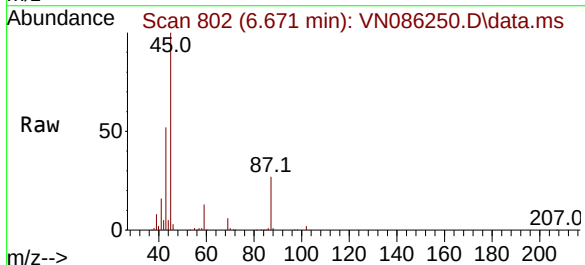
Ion Ratio Lower Upper

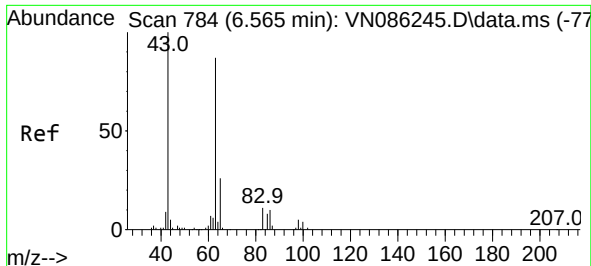
45 100

43 50.1 42.3 63.5

87 27.4 22.2 33.4

59 12.8 9.1 13.7





#21

1,1-Dichloroethane

Concen: 20.053 ug/l

RT: 6.565 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

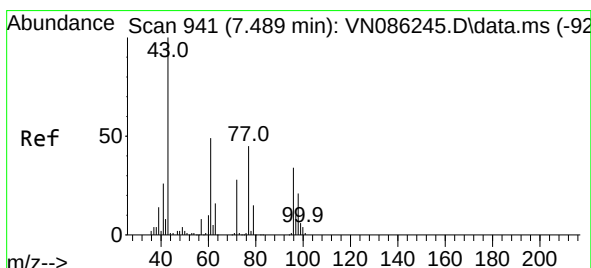
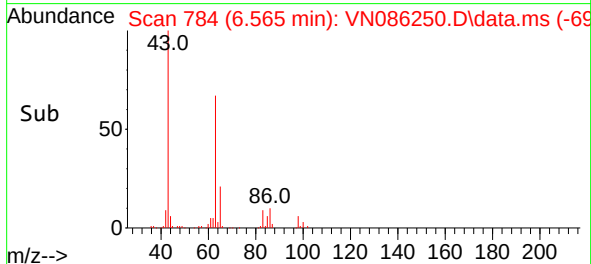
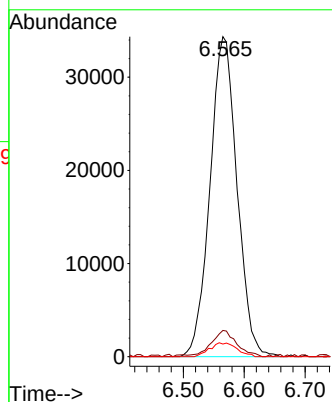
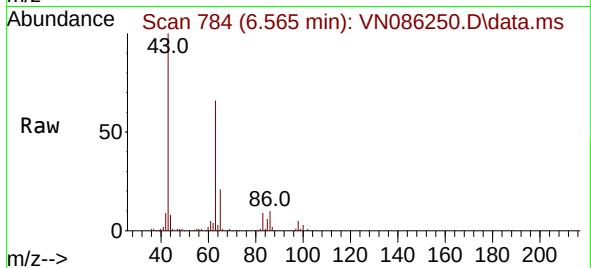
Tgt Ion: 63 Resp: 106033

Ion Ratio Lower Upper

63 100

98 7.7 3.1 9.3

100 4.0 2.3 6.9



#22

cis-1,2-Dichloroethene

Concen: 19.651 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

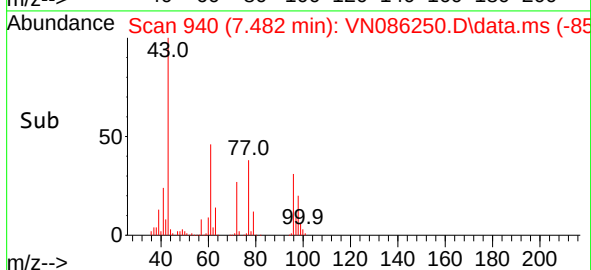
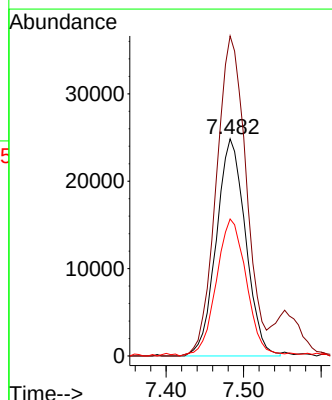
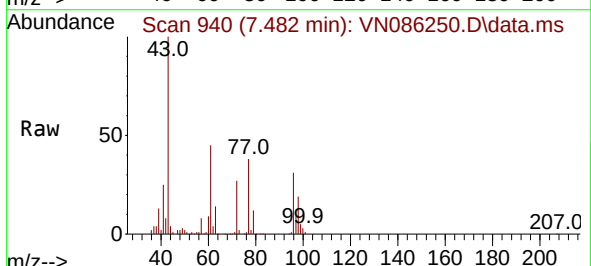
Tgt Ion: 96 Resp: 65216

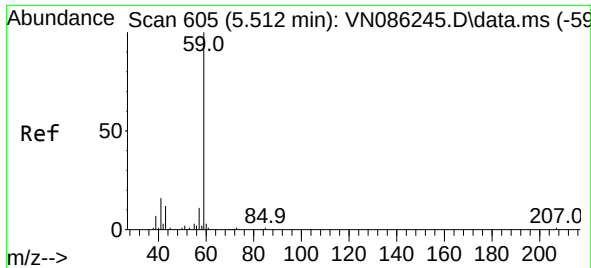
Ion Ratio Lower Upper

96 100

61 150.4 119.5 179.3

98 64.8 51.0 76.6

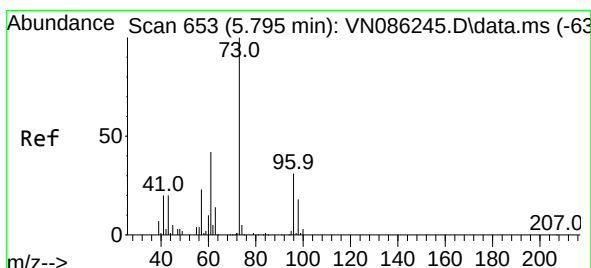
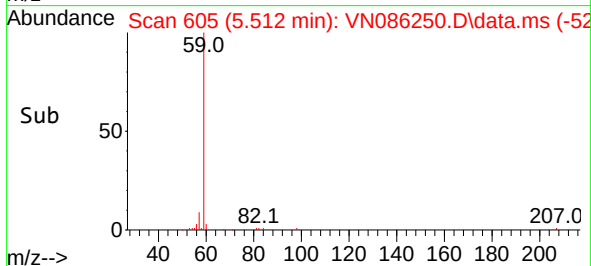
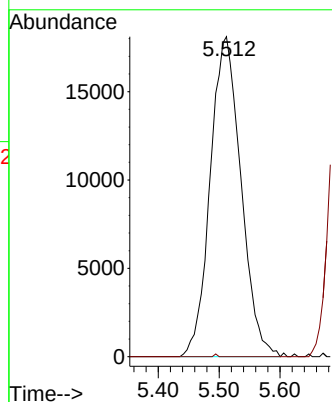
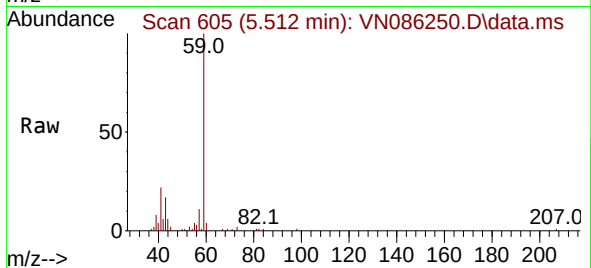




#23
tert-Butyl Alcohol
Concen: 97.177 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

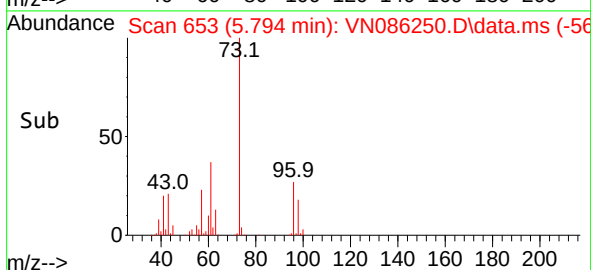
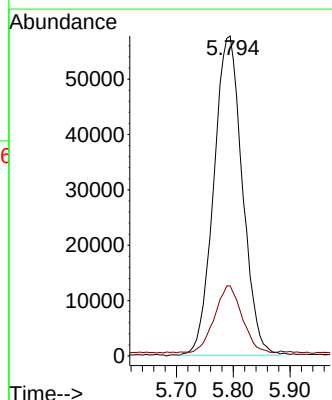
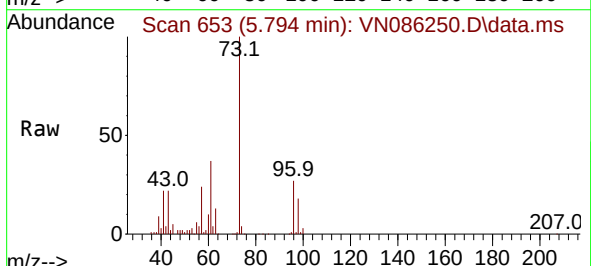
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

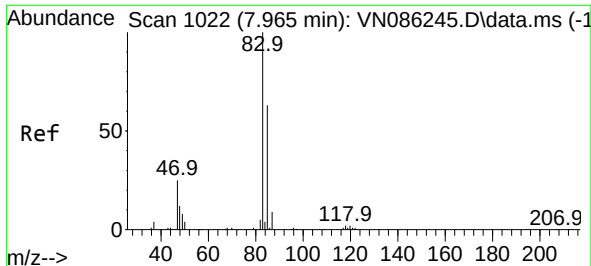
Tgt Ion: 59 Resp: 63490
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 21.074 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 73 Resp: 201155
Ion Ratio Lower Upper
73 100
43 20.2 16.8 25.2

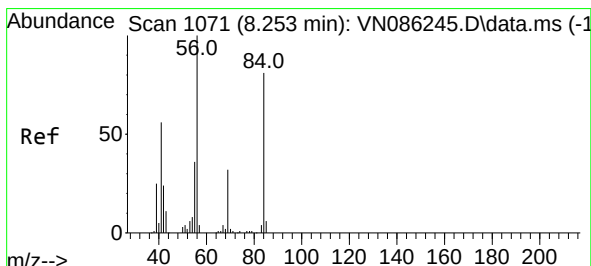
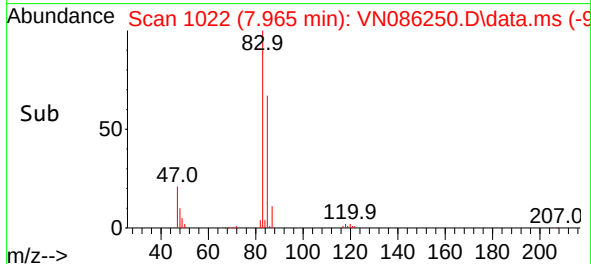
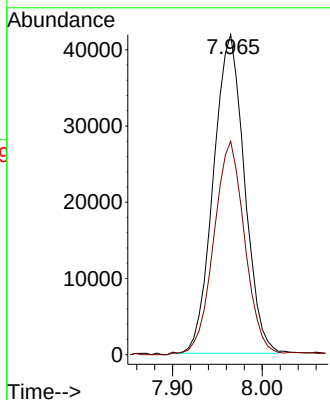
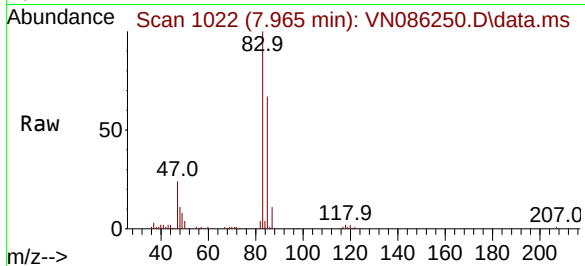




#25
Chloroform
Concen: 19.885 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

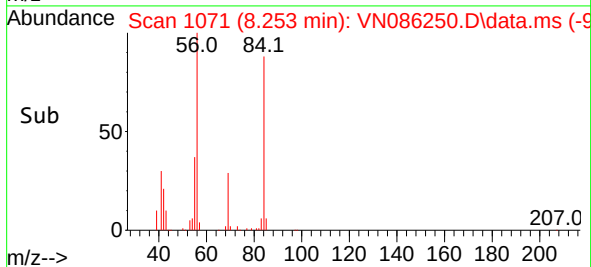
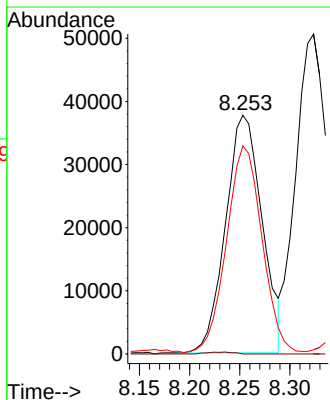
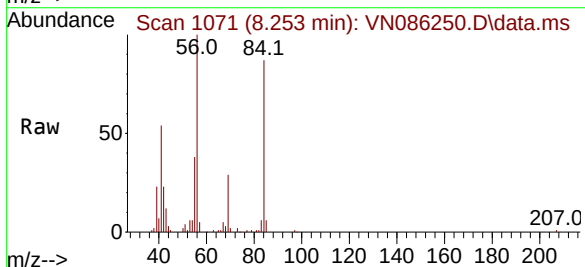
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

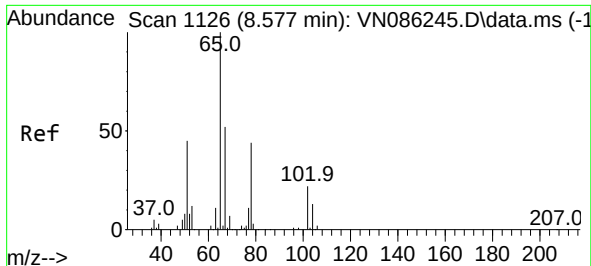
Tgt Ion: 83 Resp: 100265
Ion Ratio Lower Upper
83 100
85 66.5 50.5 75.7



#26
Cyclohexane
Concen: 19.310 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 56 Resp: 95525
Ion Ratio Lower Upper
56 100
89 0.6 0.0 0.0#
84 85.9 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 30.208 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

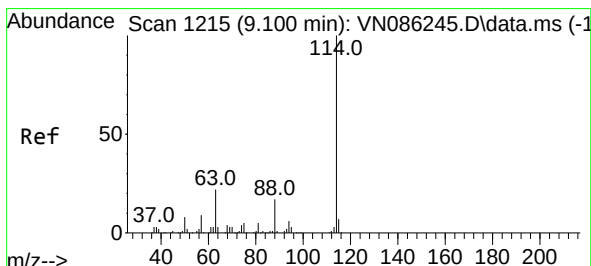
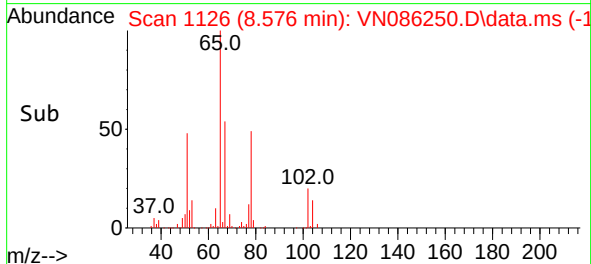
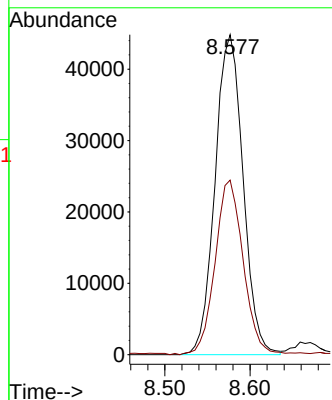
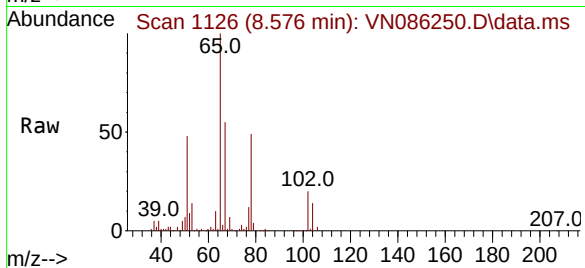
VN0411WBSD01

Tgt Ion: 65 Resp: 102343

Ion Ratio Lower Upper

65 100

67 54.6 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

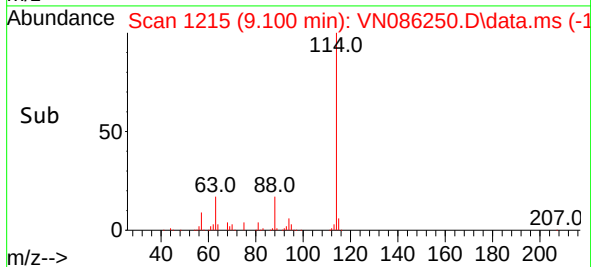
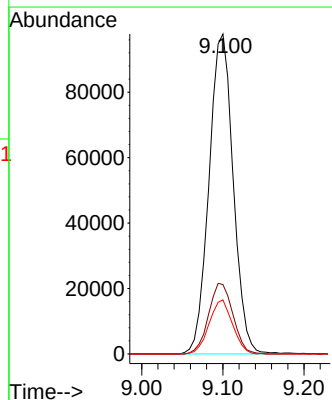
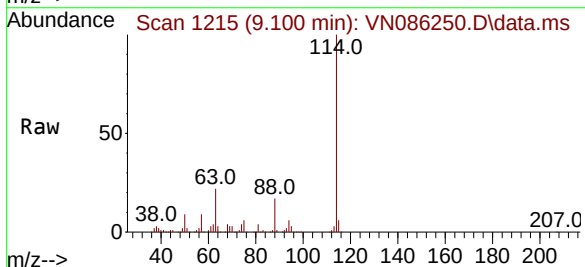
Tgt Ion: 114 Resp: 202525

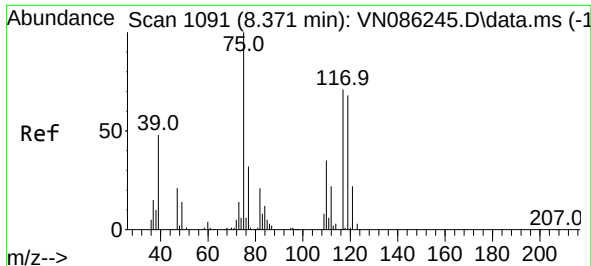
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

88 16.3 13.4 20.2

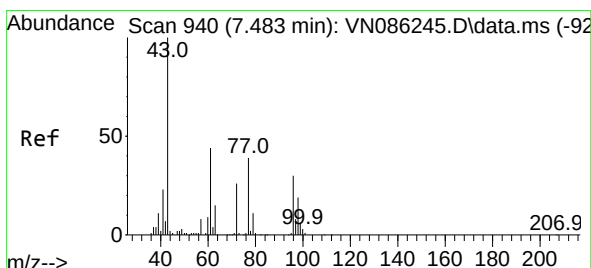
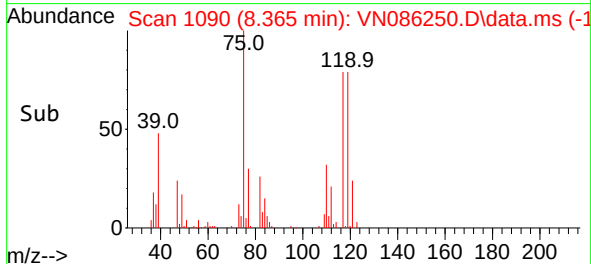
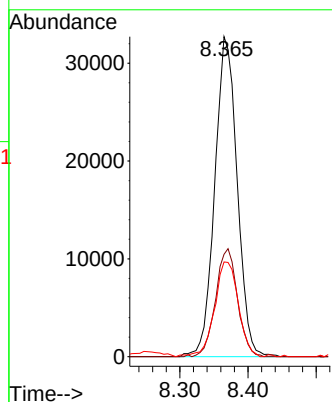
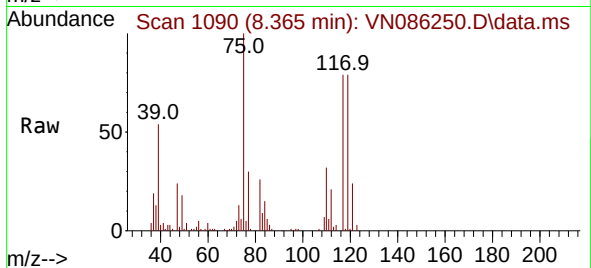




#29
1,1-Dichloropropene
Concen: 20.635 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

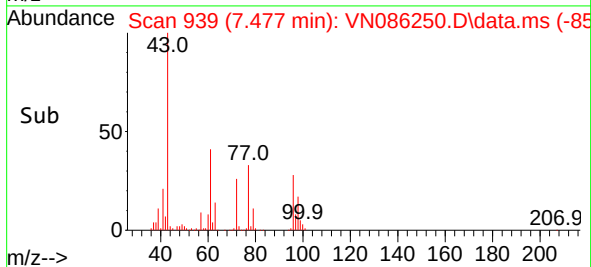
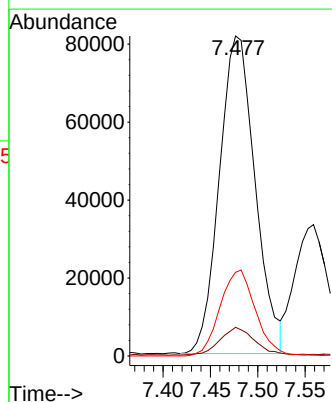
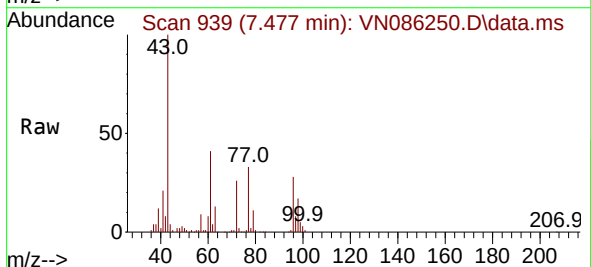
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

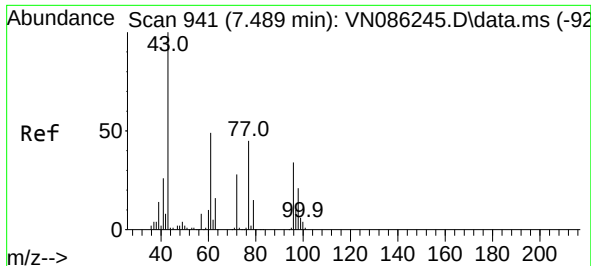
Tgt Ion: 75 Resp: 74865
Ion Ratio Lower Upper
75 100
110 32.9 0.0 68.6
77 31.3 0.0 63.8



#30
2-Butanone
Concen: 106.676 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 43 Resp: 214454
Ion Ratio Lower Upper
43 100
57 8.4 6.4 9.6
72 26.8 21.5 32.3

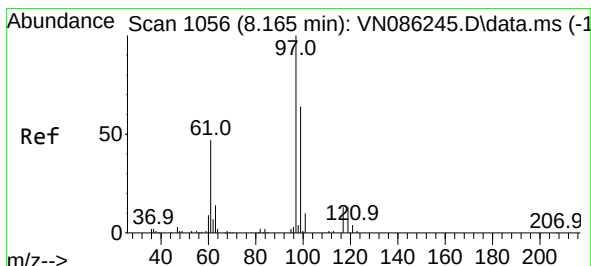
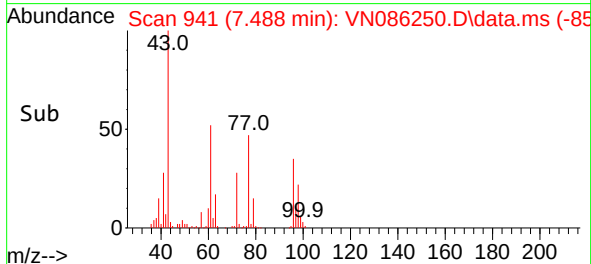
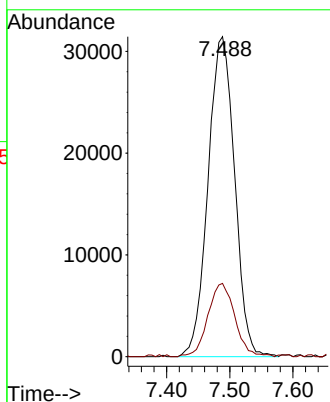
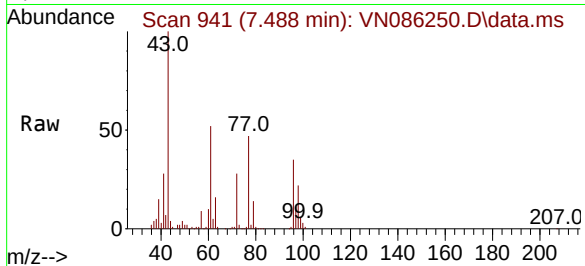




#31
2,2-Dichloropropane
Concen: 20.604 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

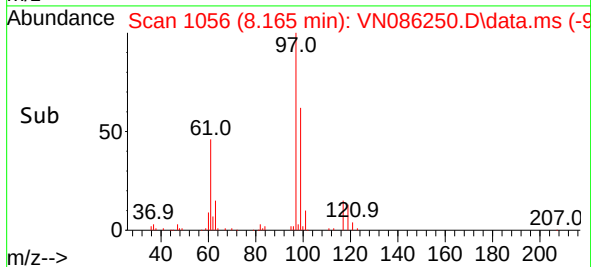
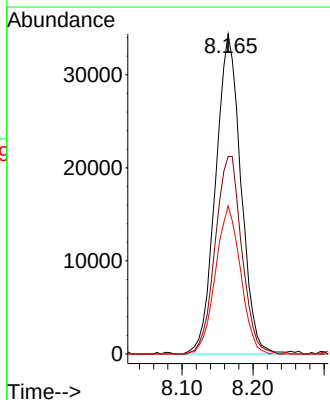
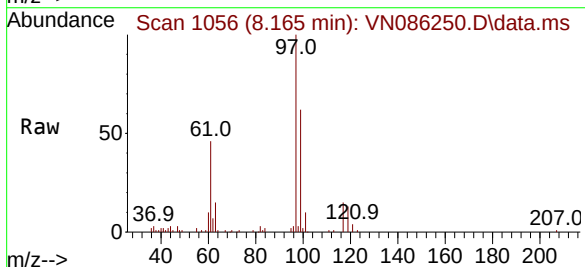
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

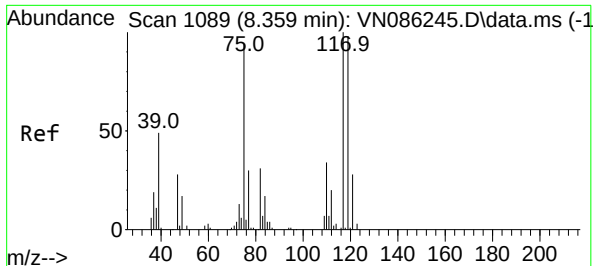
Tgt Ion: 77 Resp: 92014
Ion Ratio Lower Upper
77 100
97 23.0 18.8 28.2



#32
1,1,1-Trichloroethane
Concen: 20.333 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 97 Resp: 84856
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 46.0 37.0 55.6

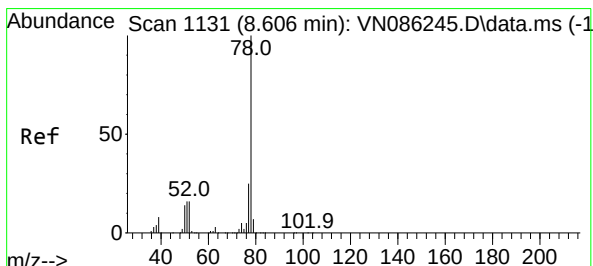
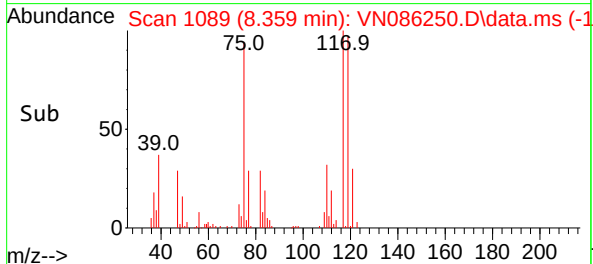
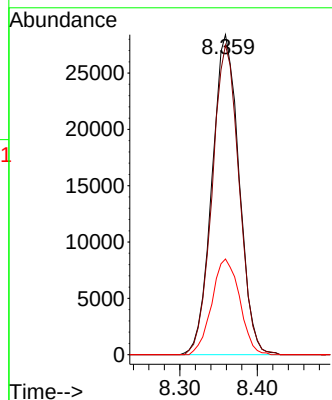
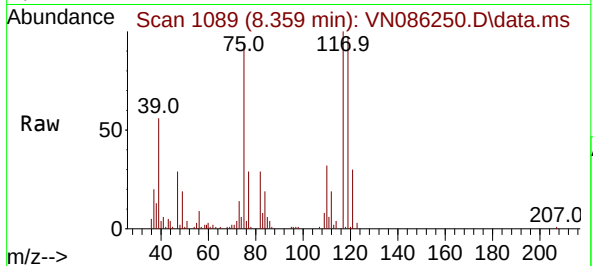




#33
Carbon Tetrachloride
Concen: 20.645 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

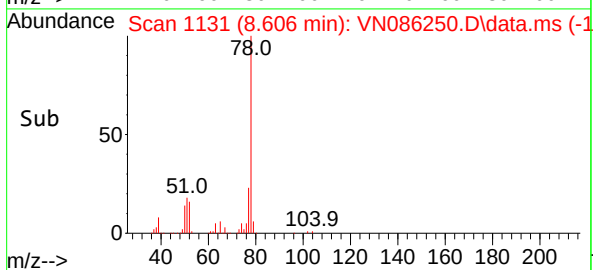
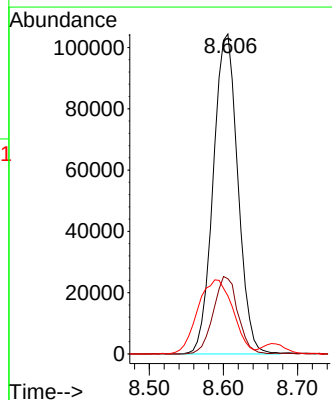
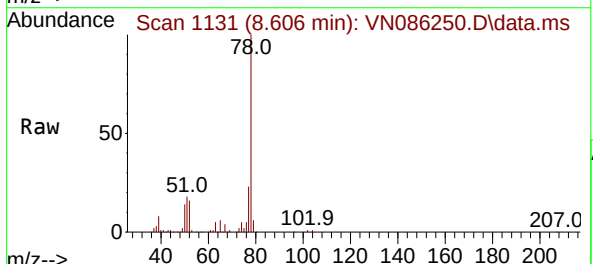
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

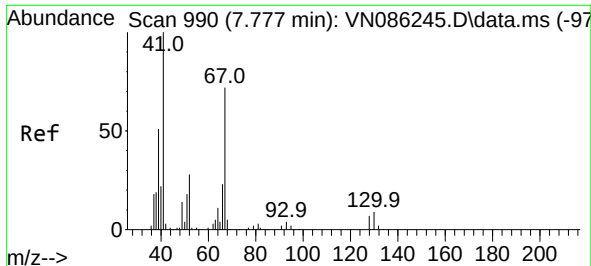
Tgt Ion:117 Resp: 68854
Ion Ratio Lower Upper
117 100
119 96.8 78.3 117.5
121 29.9 22.5 33.7



#34
Benzene
Concen: 20.834 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 78 Resp: 240477
Ion Ratio Lower Upper
78 100
77 23.5 20.0 30.0
51 16.9 12.9 19.3

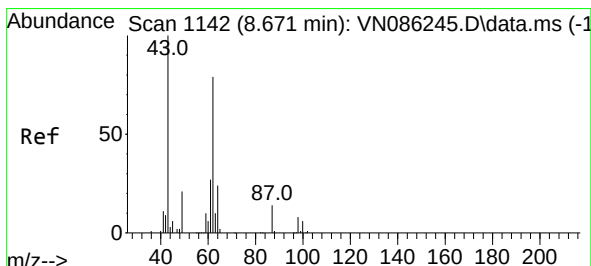
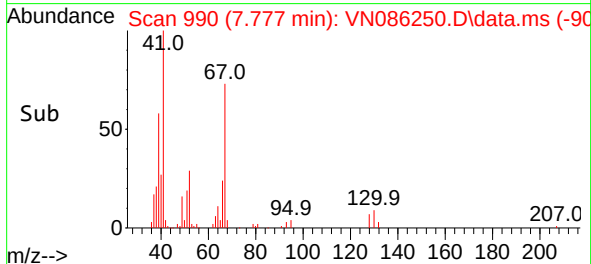
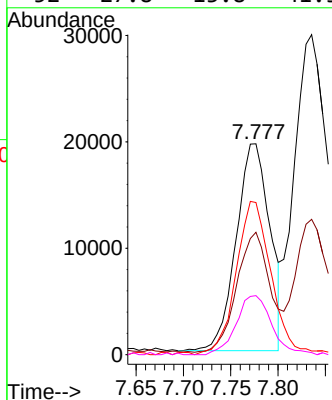
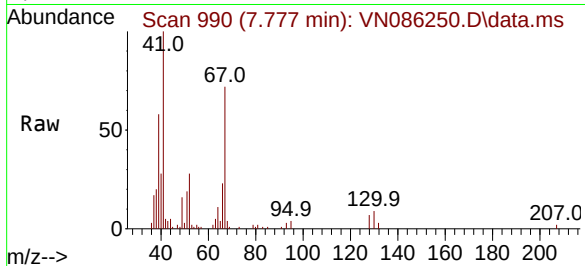




#35
Methacrylonitrile
Concen: 21.230 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

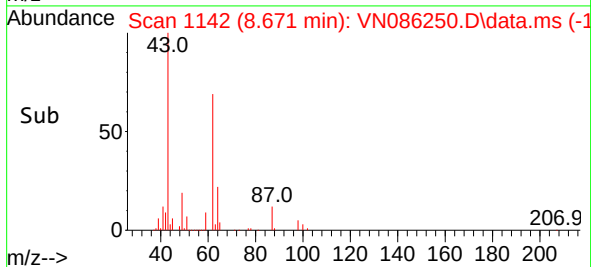
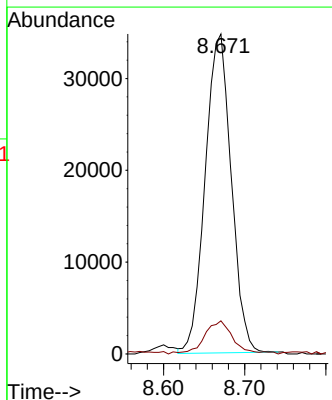
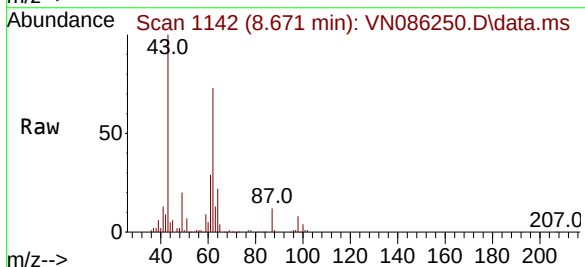
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

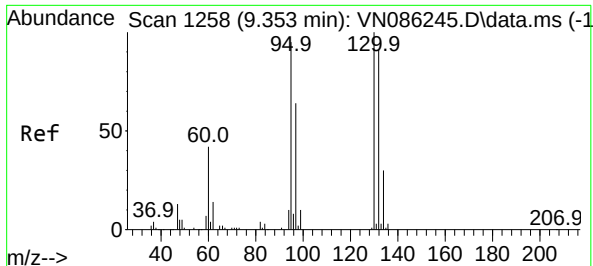
Tgt Ion:	41	Resp:	48115
Ion	Ratio	Lower	Upper
41	100		
39	57.6	25.8	77.3
67	72.6	36.0	108.0
52	27.8	13.8	41.3



#36
1,2-Dichloroethane
Concen: 21.439 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:	62	Resp:	77436
Ion	Ratio	Lower	Upper
62	100		
98	10.1	8.6	12.8

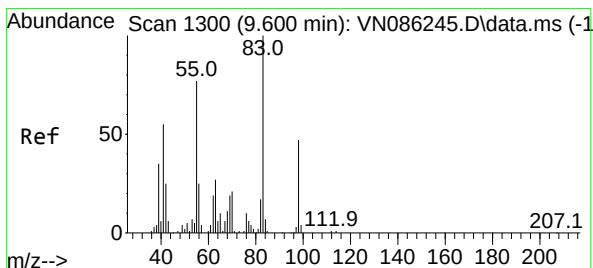
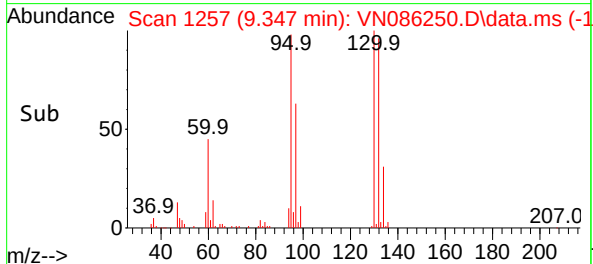
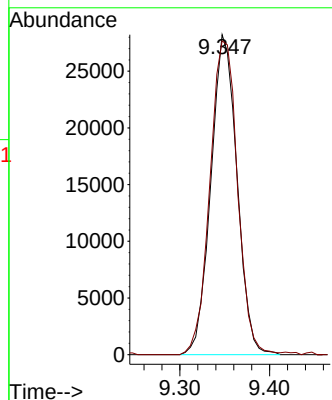
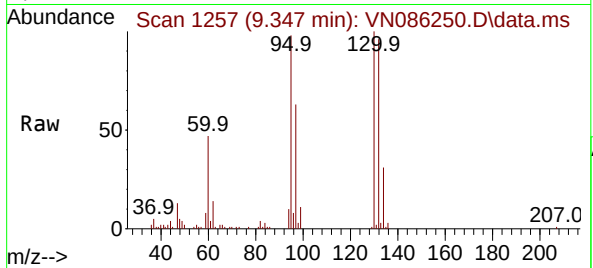




#37
Trichloroethene
Concen: 20.471 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

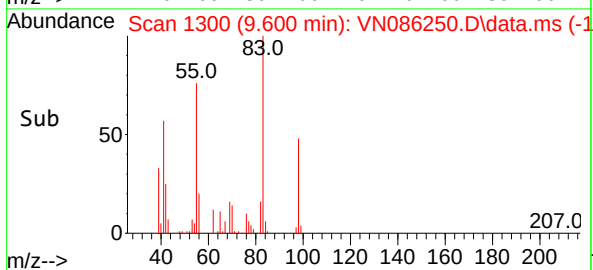
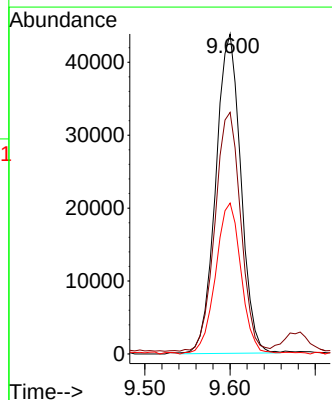
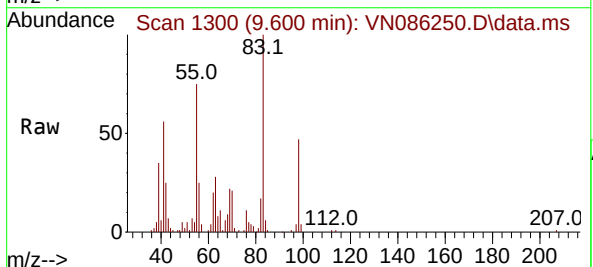
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

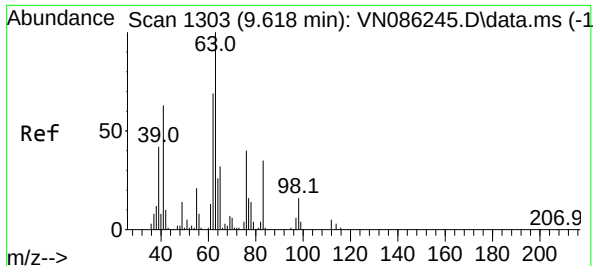
Tgt Ion:130 Resp: 57010
Ion Ratio Lower Upper
130 100
95 98.1 76.4 114.6



#38
Methylcyclohexane
Concen: 20.125 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 83 Resp: 89548
Ion Ratio Lower Upper
83 100
55 76.5 38.5 115.5
98 48.1 24.4 73.2





#39

1,2-Dichloropropane

Concen: 21.392 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

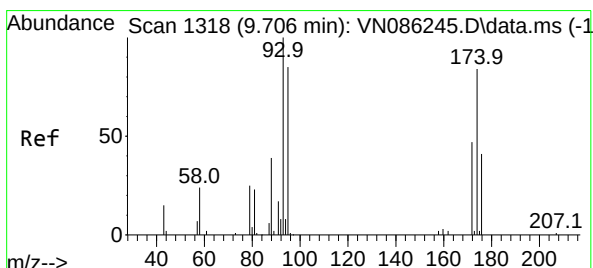
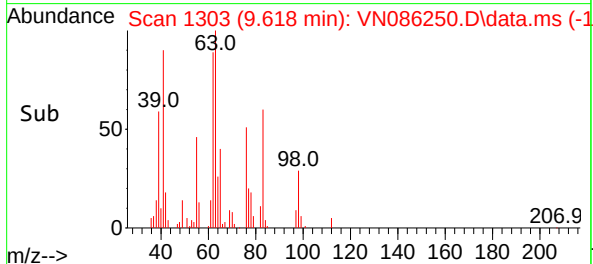
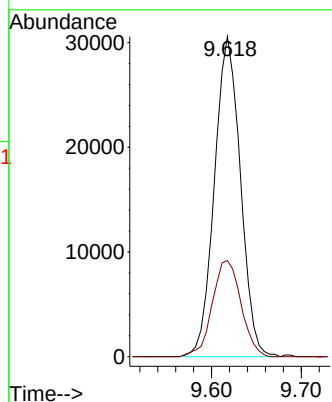
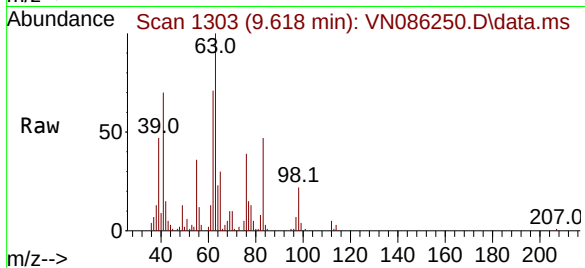
VN0411WBSD01

Tgt Ion: 63 Resp: 61439

Ion Ratio Lower Upper

63 100

65 30.1 26.0 39.0



#40

Dibromomethane

Concen: 21.185 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

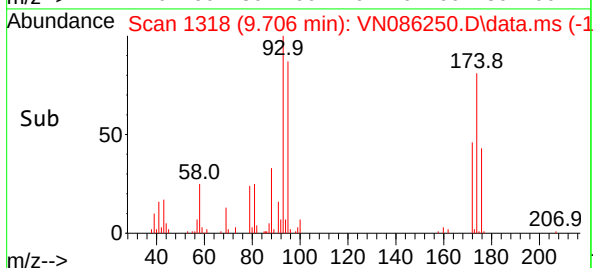
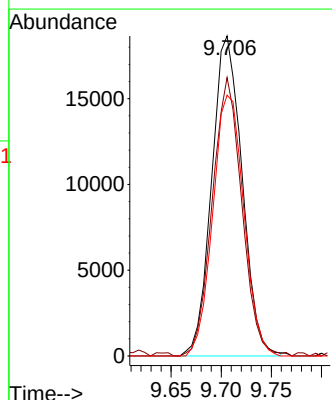
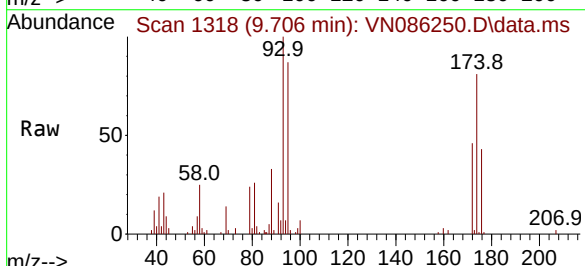
Tgt Ion: 93 Resp: 39298

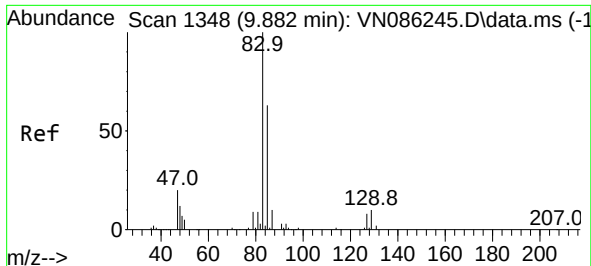
Ion Ratio Lower Upper

93 100

95 84.7 0.0 169.0

174 83.2 0.0 168.0

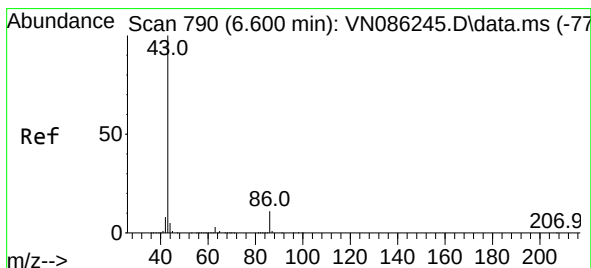
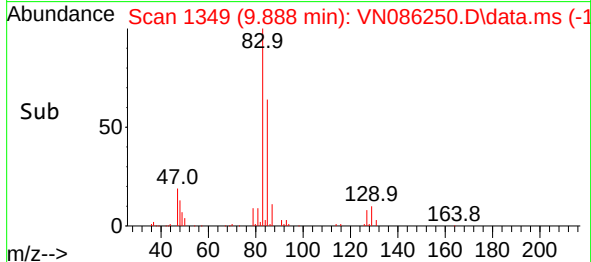
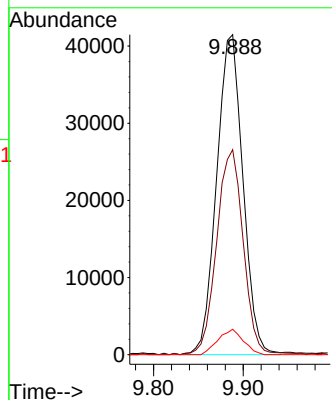
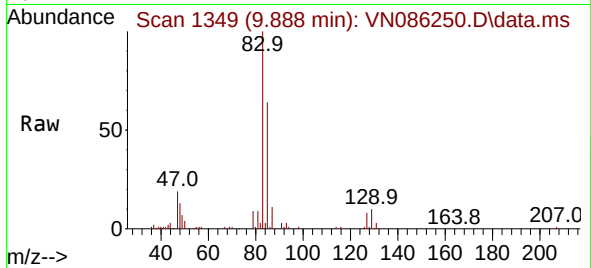




#41
Bromodichloromethane
Concen: 21.197 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

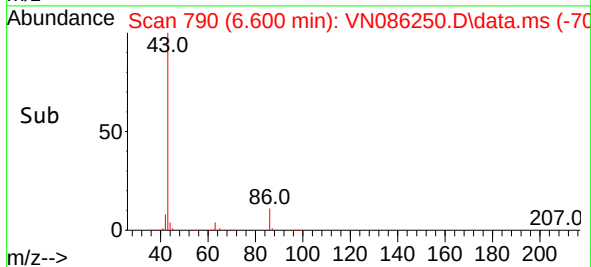
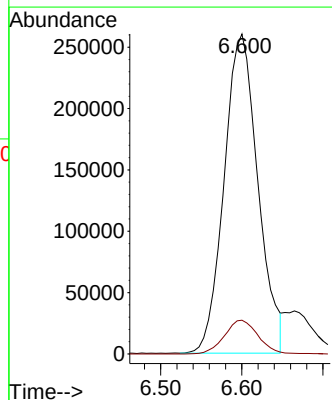
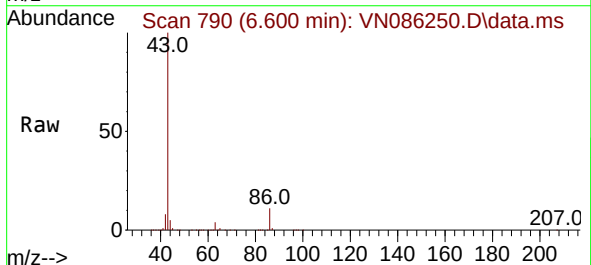
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

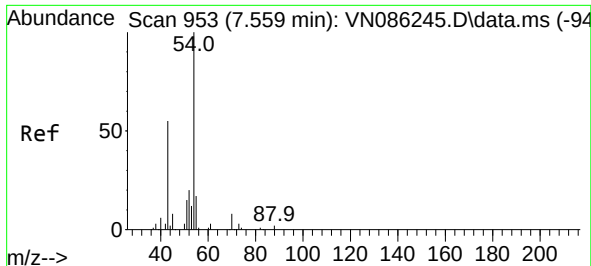
Tgt Ion: 83 Resp: 84468
Ion Ratio Lower Upper
83 100
85 64.0 50.2 75.2
127 8.0 6.2 9.4



#42
Vinyl Acetate
Concen: 110.147 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 43 Resp: 753748
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6

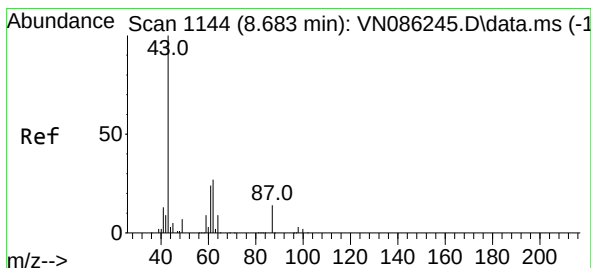
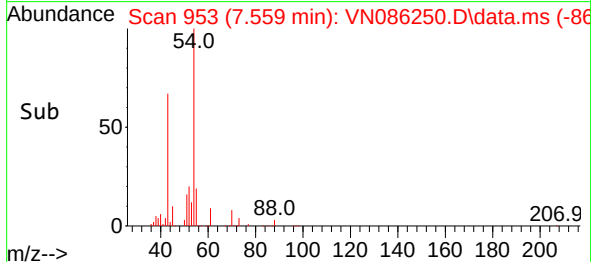
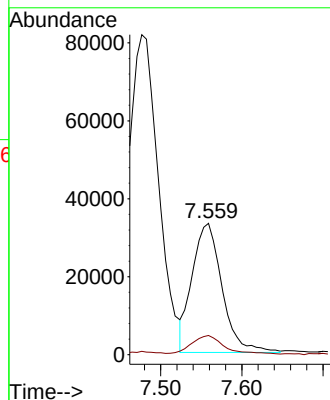
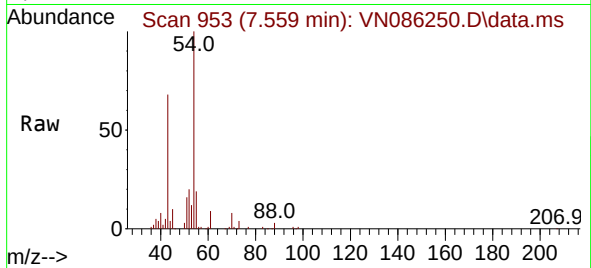




#43
Ethyl Acetate
Concen: 20.939 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

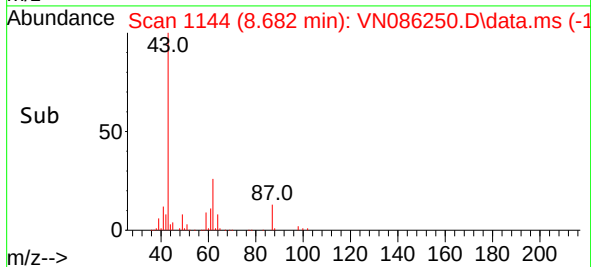
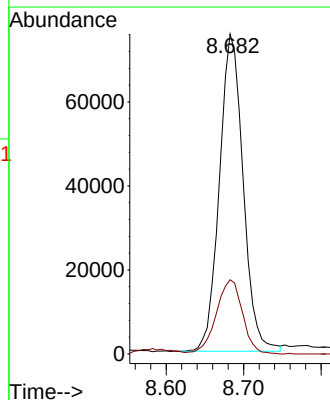
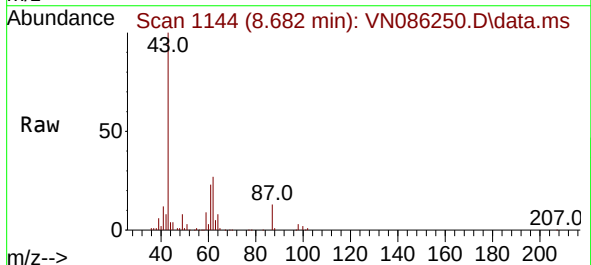
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

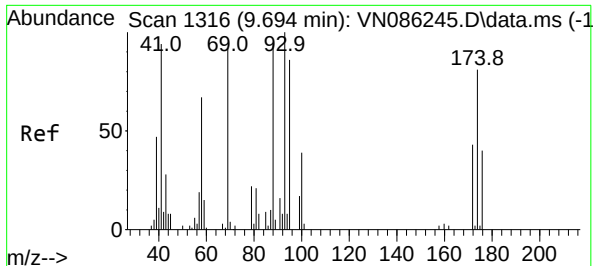
Tgt Ion: 43 Resp: 84905
Ion Ratio Lower Upper
43 100
45 15.9 11.2 16.8



#44
Isopropyl Acetate
Concen: 21.391 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 43 Resp: 160910
Ion Ratio Lower Upper
43 100
61 25.9 20.5 30.7

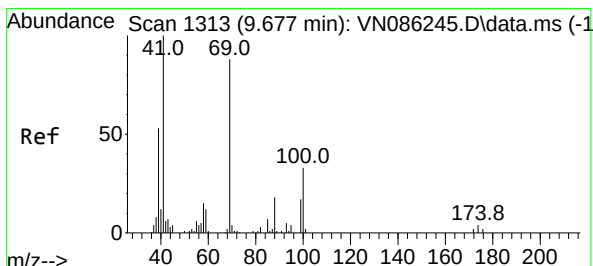
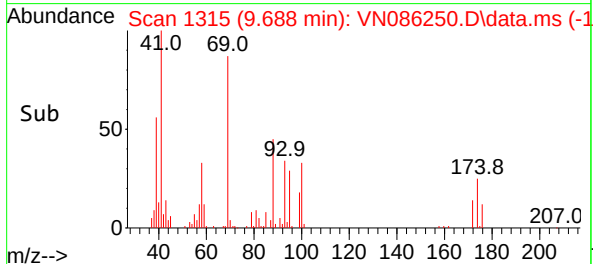
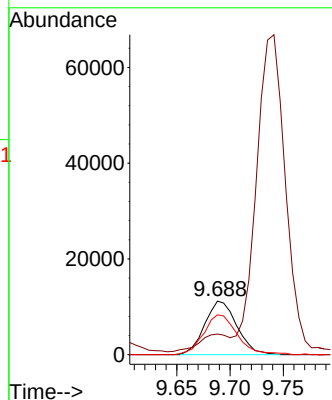
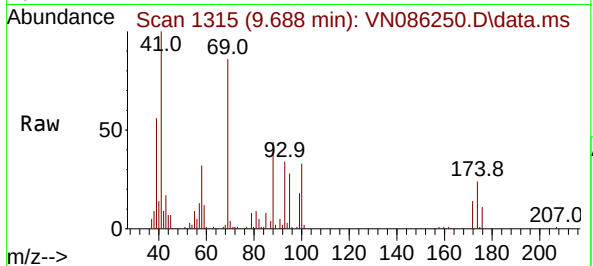




#45
1,4-Dioxane
Concen: 391.526 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

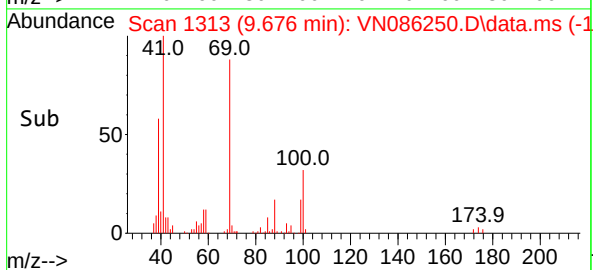
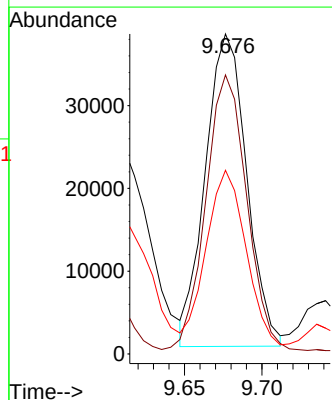
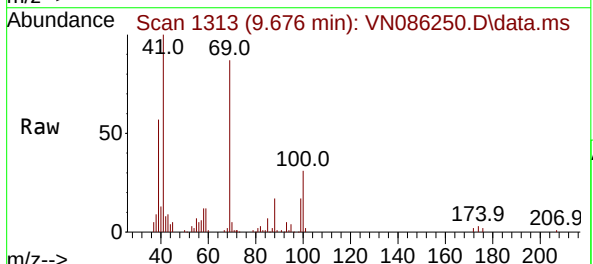
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

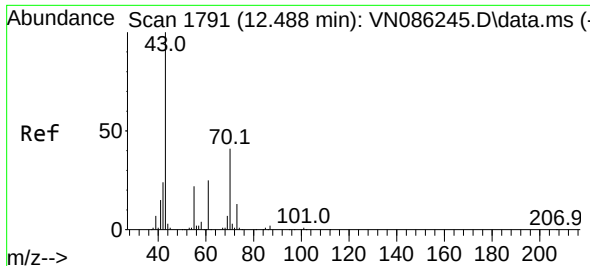
Tgt Ion: 88 Resp: 23420
Ion Ratio Lower Upper
88 100
43 30.8 14.4 21.6#
58 78.0 59.8 89.8



#46
Methyl methacrylate
Concen: 21.088 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 41 Resp: 69895
Ion Ratio Lower Upper
41 100
69 89.0 43.2 129.6
39 57.9 26.4 79.0

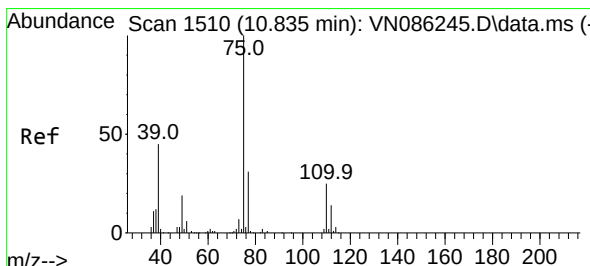
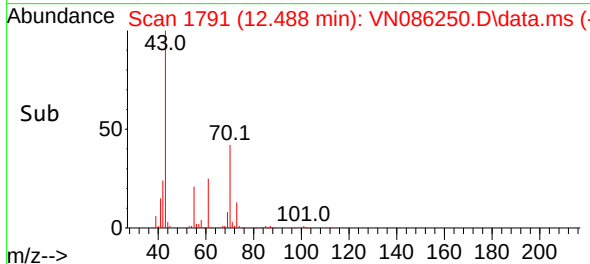
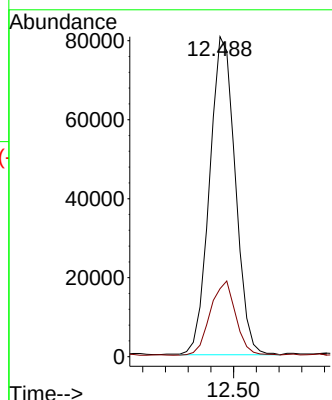
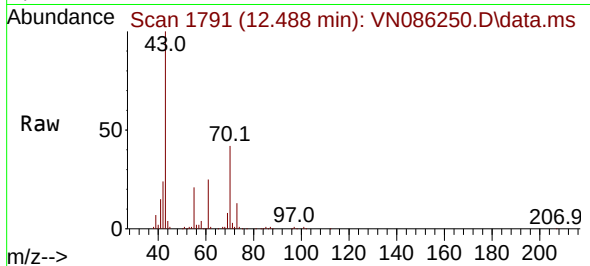




#47
n-amy1 Acetate
Concen: 21.222 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

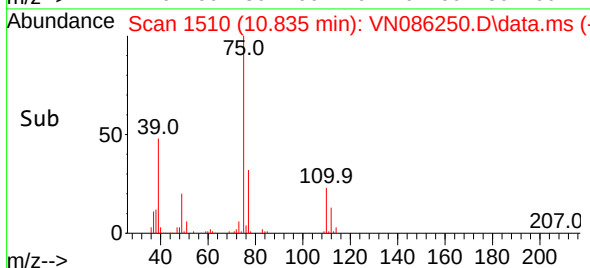
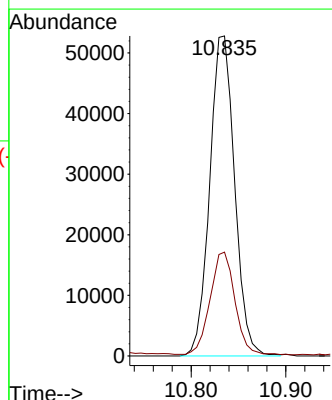
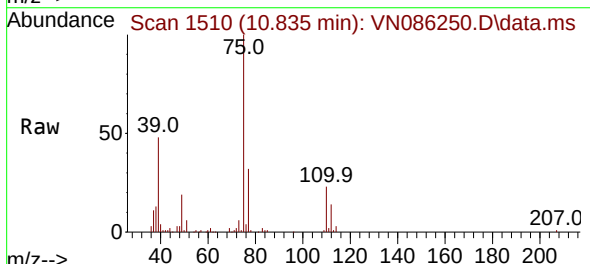
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

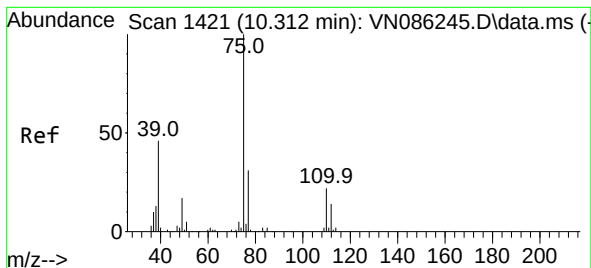
Tgt Ion: 43 Resp: 126575
Ion Ratio Lower Upper
43 100
55 23.1 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 21.411 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 75 Resp: 96458
Ion Ratio Lower Upper
75 100
77 32.0 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 21.406 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

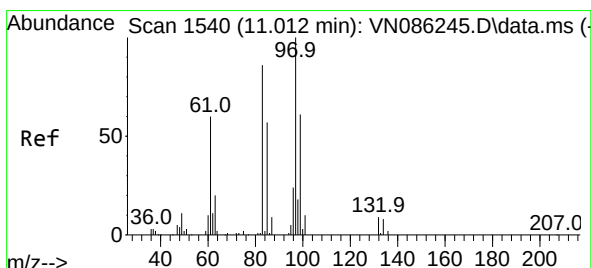
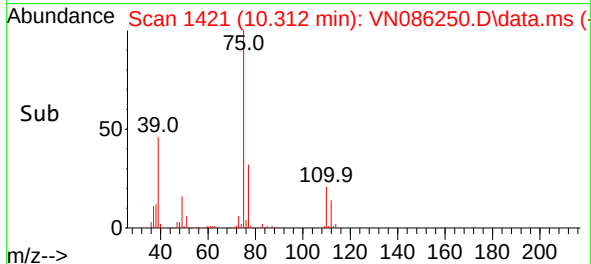
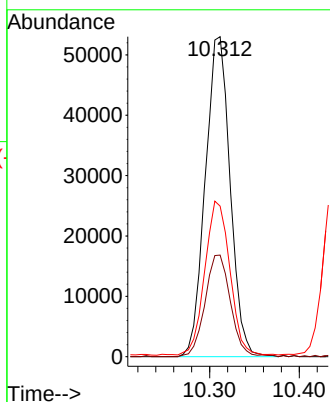
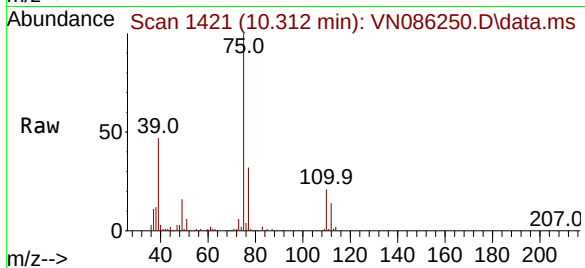
Tgt Ion: 75 Resp: 102066

Ion Ratio Lower Upper

75 100

77 31.8 25.0 37.4

39 46.5 36.7 55.1



#50

1,1,2-Trichloroethane

Concen: 21.561 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Tgt Ion: 97 Resp: 56096

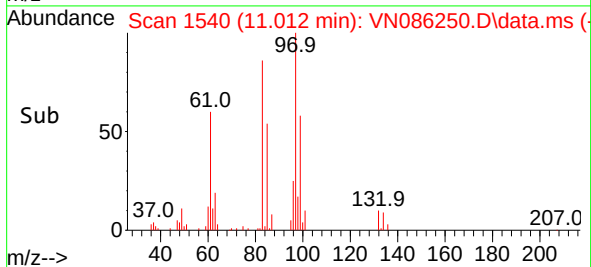
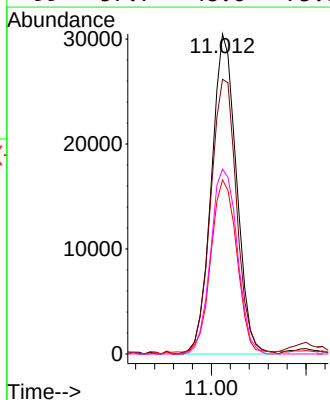
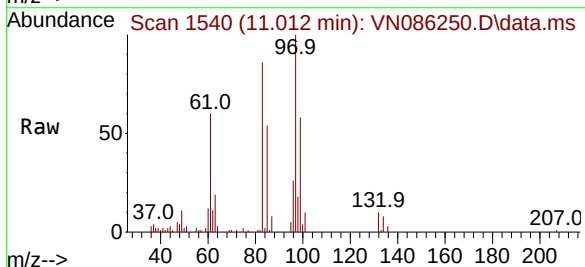
Ion Ratio Lower Upper

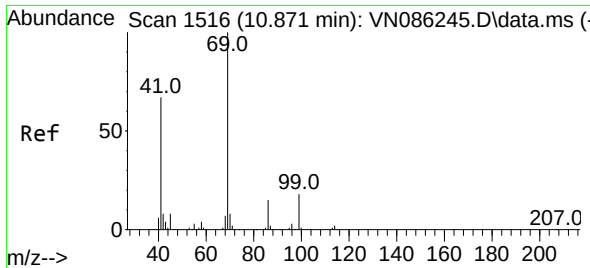
97 100

83 85.9 68.6 103.0

85 53.8 45.9 68.9

99 57.7 48.6 73.0

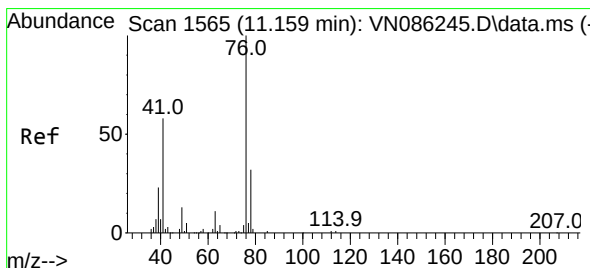
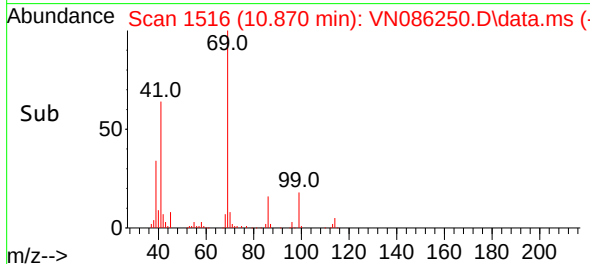
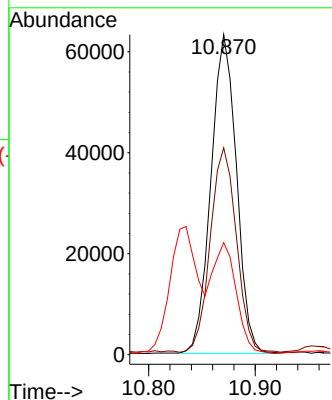
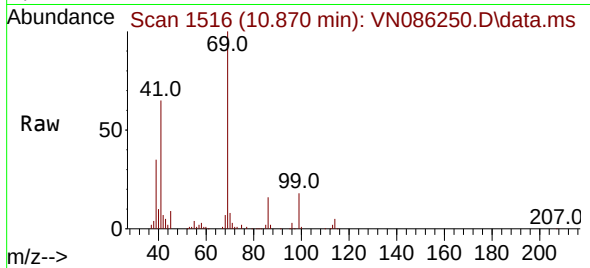




#51
Ethyl methacrylate
Concen: 21.747 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

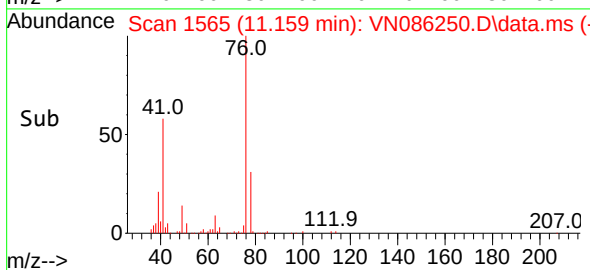
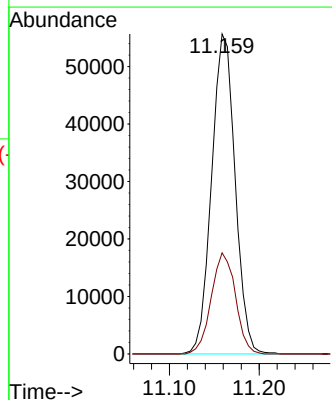
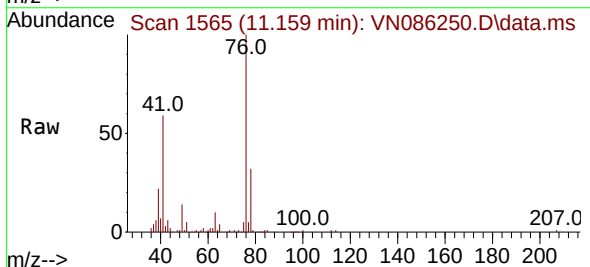
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

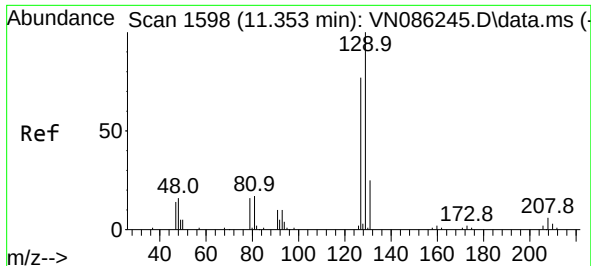
Tgt Ion: 69 Resp: 105140
Ion Ratio Lower Upper
69 100
41 64.2 33.6 100.6
39 34.7 17.8 53.4



#52
1,3-Dichloropropane
Concen: 21.850 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 76 Resp: 101323
Ion Ratio Lower Upper
76 100
78 32.5 0.0 64.6

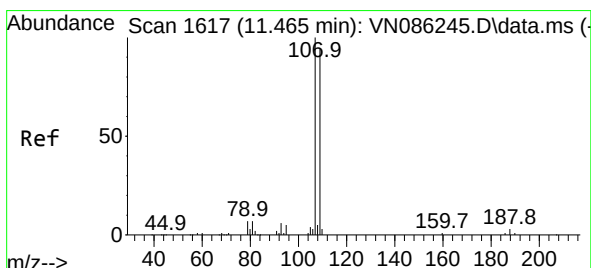
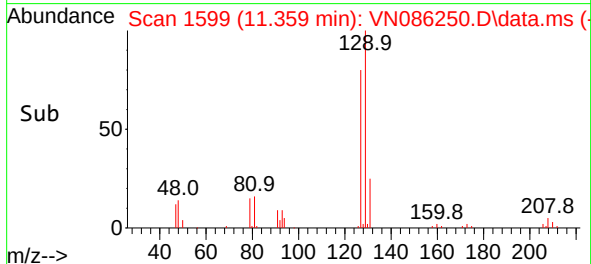
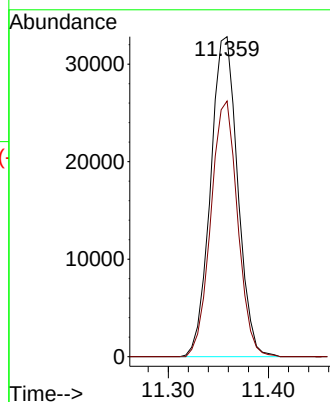
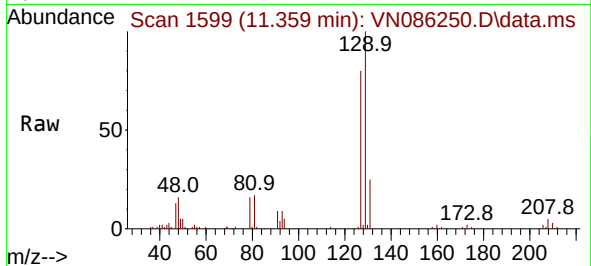




#53
Dibromochloromethane
Concen: 21.706 ug/l
RT: 11.359 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

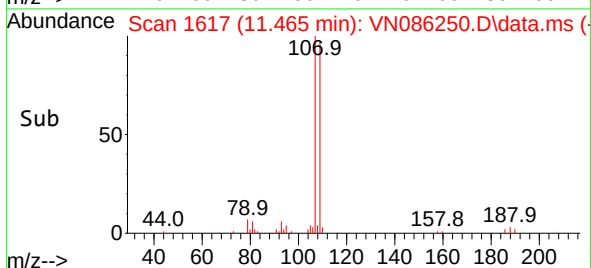
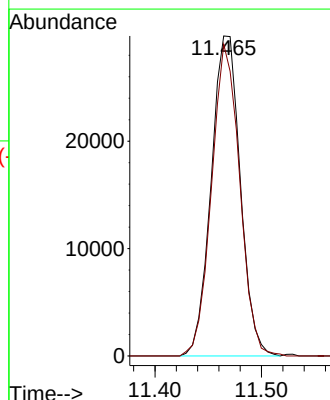
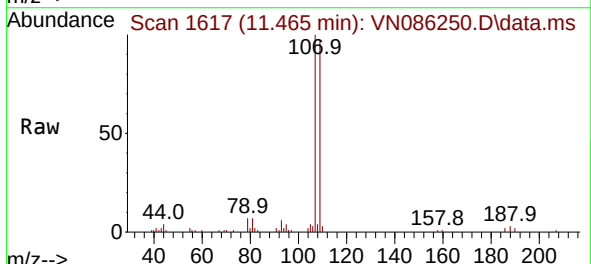
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

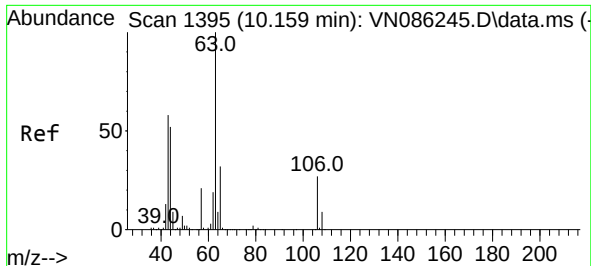
Tgt Ion:129 Resp: 61771
Ion Ratio Lower Upper
129 100
127 78.6 38.5 115.5



#54
1,2-Dibromoethane
Concen: 21.523 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:107 Resp: 56526
Ion Ratio Lower Upper
107 100
109 94.1 75.2 112.8

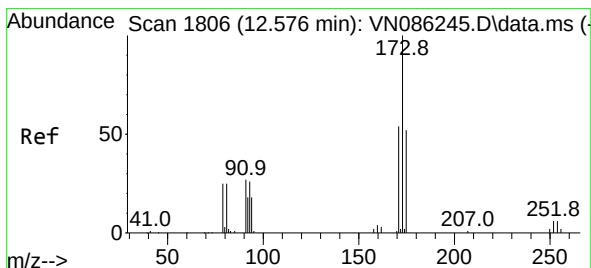
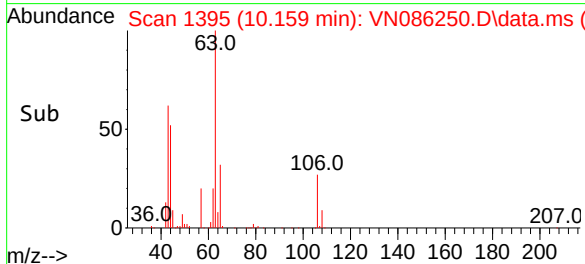
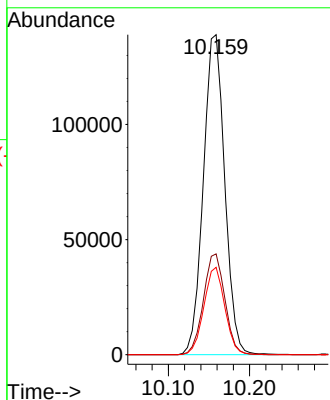
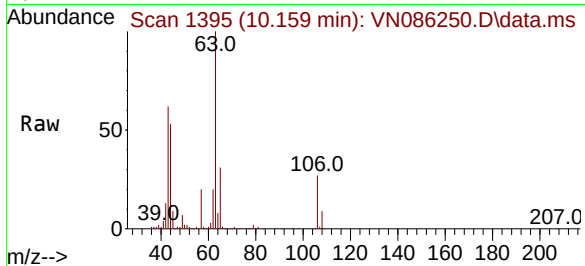




#55
2-Chloroethyl vinyl ether
Concen: 139.276 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

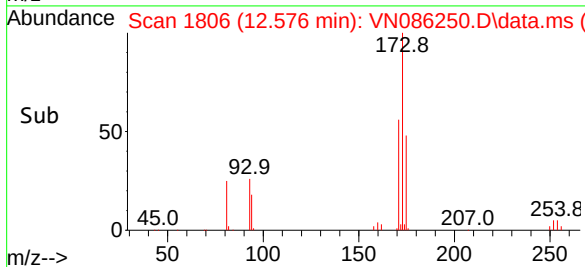
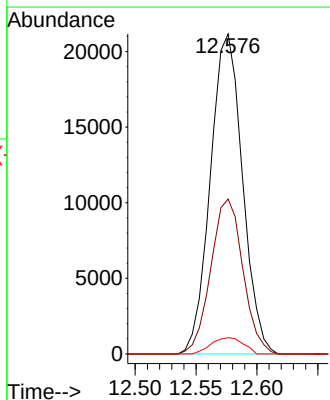
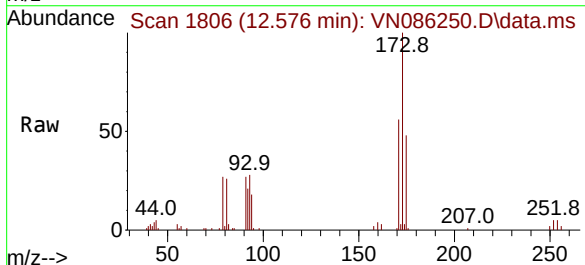
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

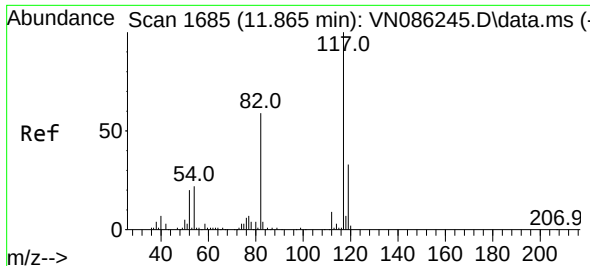
Tgt Ion: 63 Resp: 254446
Ion Ratio Lower Upper
63 100
65 31.6 25.8 38.8
106 26.7 21.8 32.8



#56
Bromoform
Concen: 20.842 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 173 Resp: 38804
Ion Ratio Lower Upper
173 100
175 48.4 38.2 57.4
254 5.1 4.5 6.7

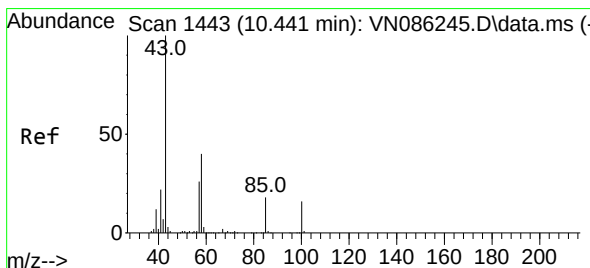
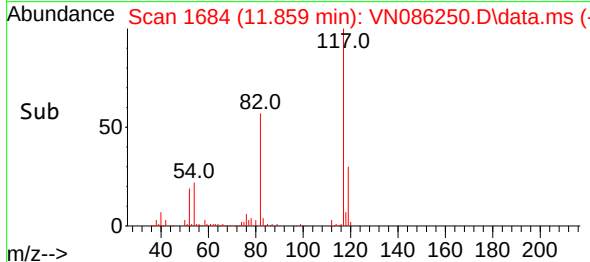
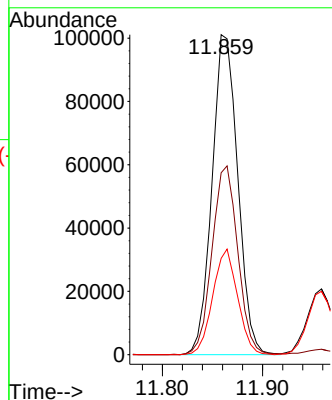
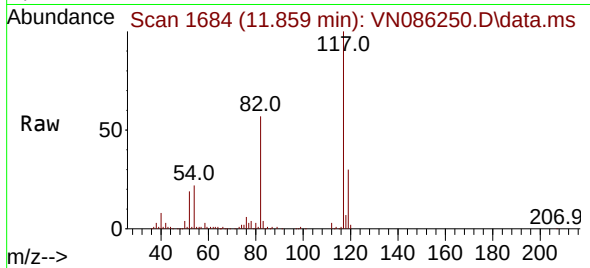




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

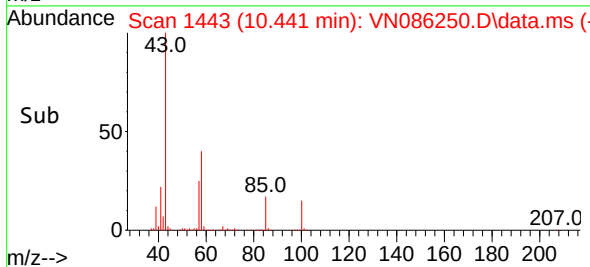
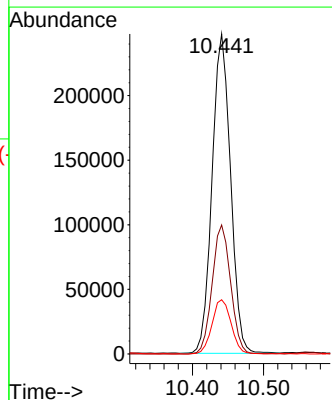
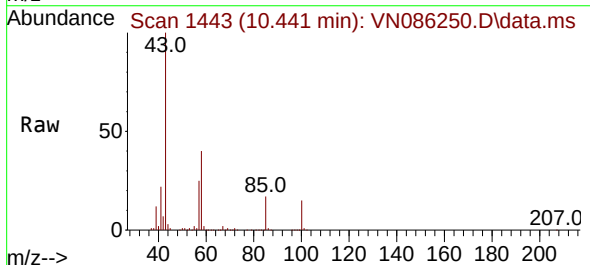
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

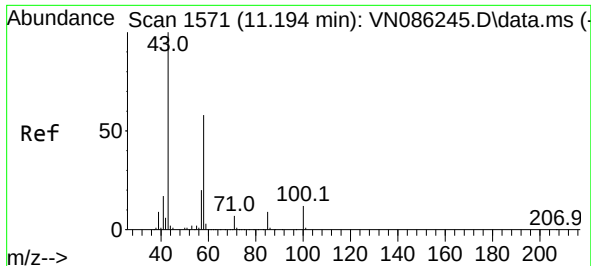
Tgt Ion:117 Resp: 180363
Ion Ratio Lower Upper
117 100
82 59.2 47.3 70.9
119 31.9 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 109.058 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 43 Resp: 446372
Ion Ratio Lower Upper
43 100
58 40.3 32.5 48.7
85 17.6 14.4 21.6

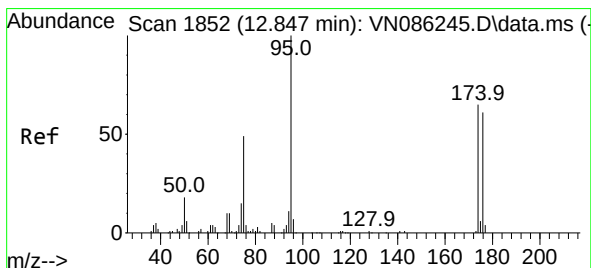
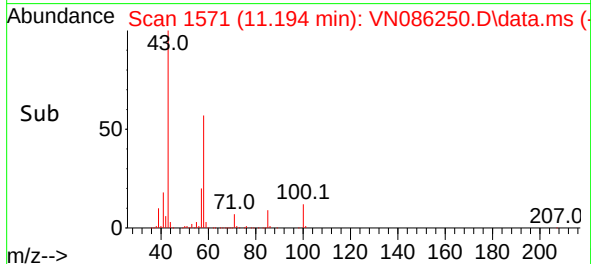
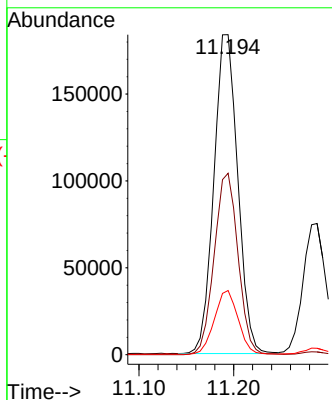
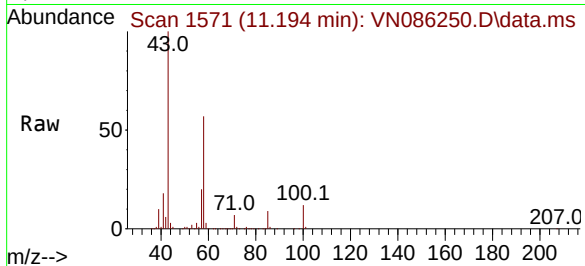




#59
2-Hexanone
Concen: 105.569 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

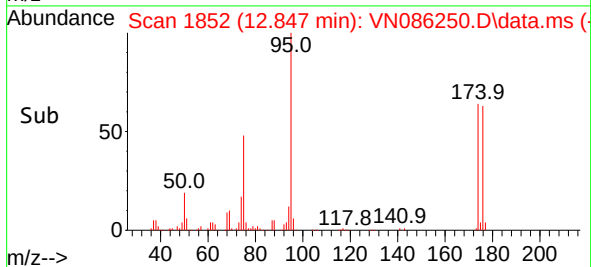
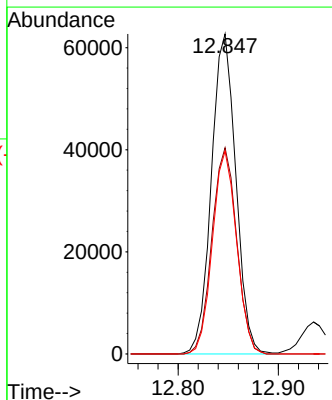
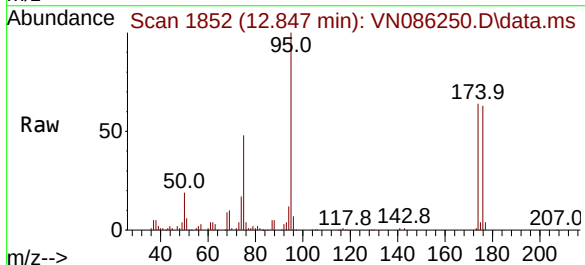
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

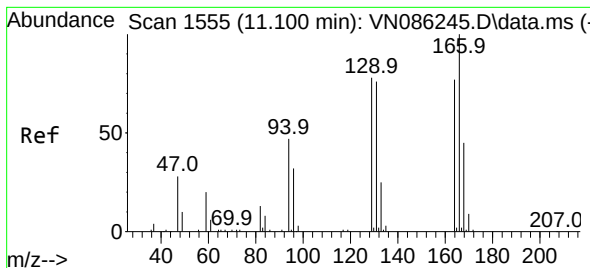
Tgt Ion: 43 Resp: 321747
Ion Ratio Lower Upper
43 100
58 56.7 45.3 67.9
57 19.7 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 29.590 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 95 Resp: 106256
Ion Ratio Lower Upper
95 100
174 65.0 52.7 79.1
176 62.5 49.8 74.8





#61

Tetrachloroethene

Concen: 20.264 ug/l

RT: 11.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086250.D

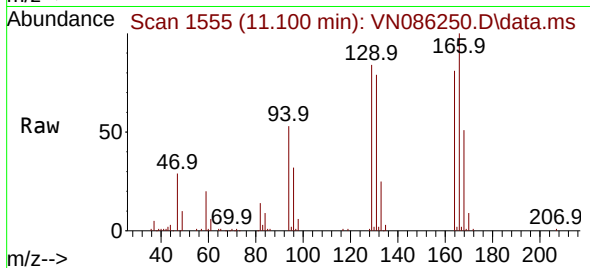
Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01



Tgt Ion:164 Resp: 53974

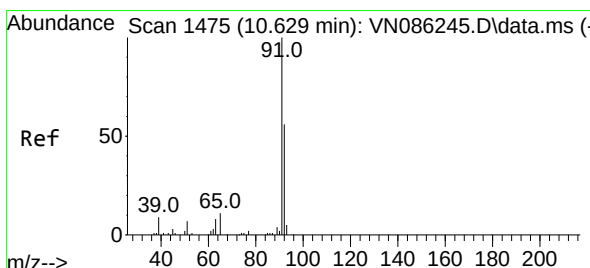
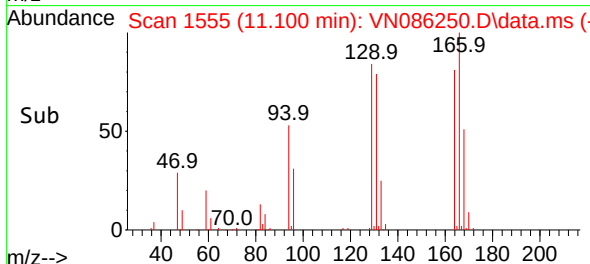
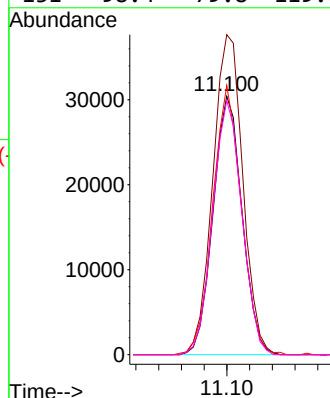
Ion Ratio Lower Upper

164 100

166 123.9 104.5 156.7

129 103.6 81.7 122.5

131 98.4 79.8 119.6



#62

Toluene

Concen: 20.706 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN086250.D

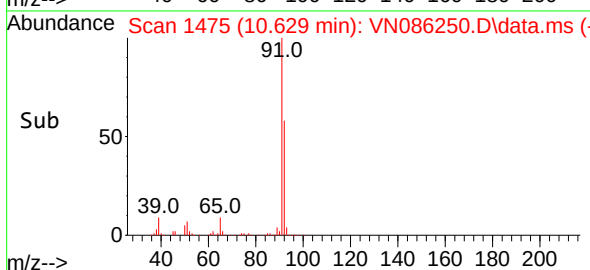
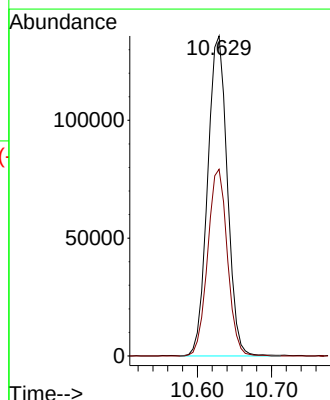
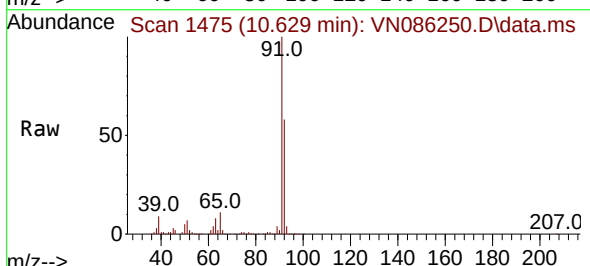
Acq: 11 Apr 2025 15:16

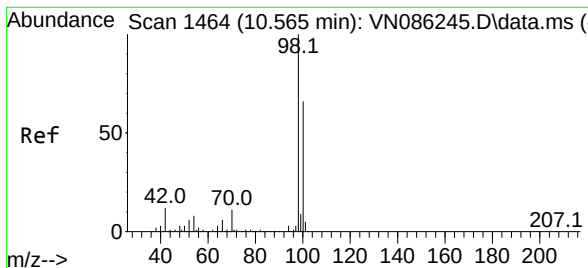
Tgt Ion: 91 Resp: 250492

Ion Ratio Lower Upper

91 100

92 58.4 46.8 70.2

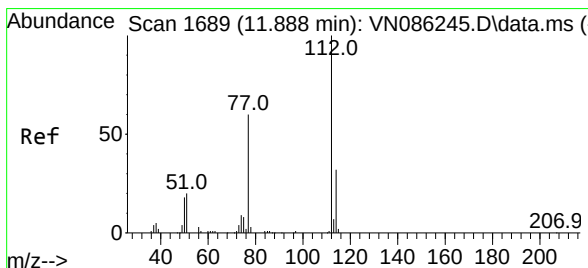
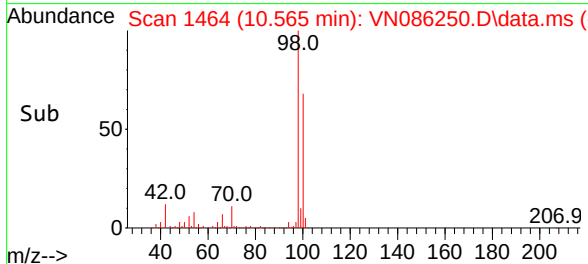
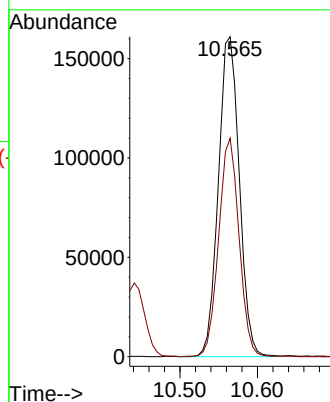
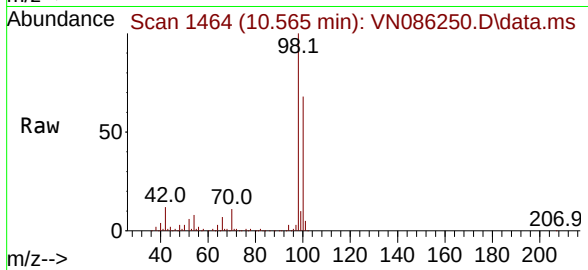




#63
Toluene-d8
Concen: 29.803 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

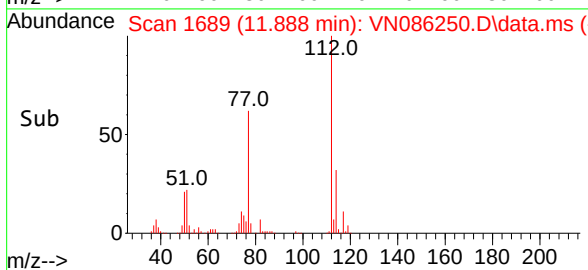
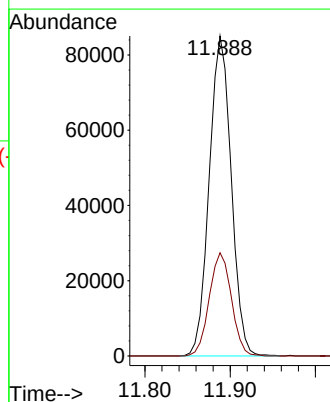
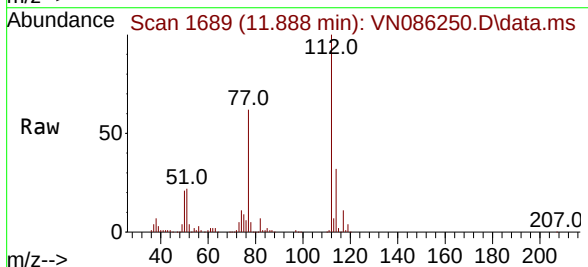
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

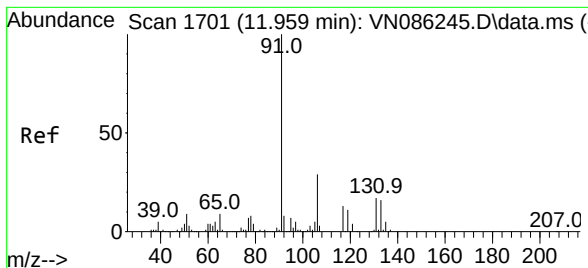
Tgt Ion: 98 Resp: 303469
Ion Ratio Lower Upper
98 100
100 66.4 52.3 78.5



#64
Chlorobenzene
Concen: 20.635 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 112 Resp: 152512
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.6

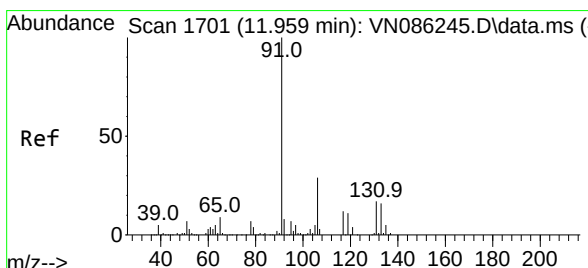
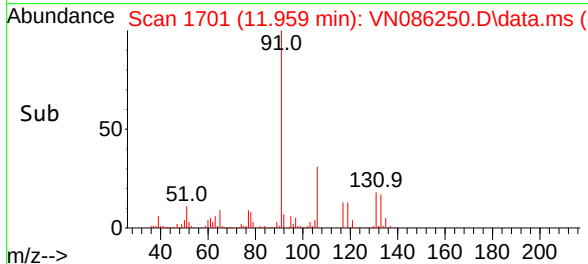
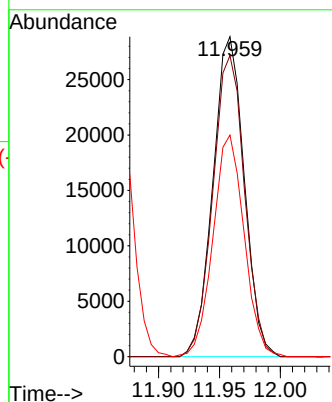
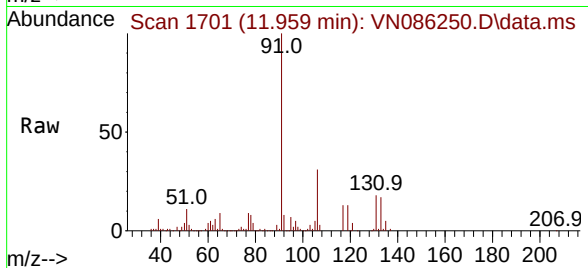




#65
1,1,1,2-Tetrachloroethane
Concen: 21.219 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

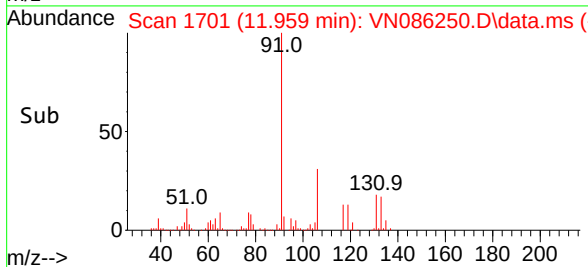
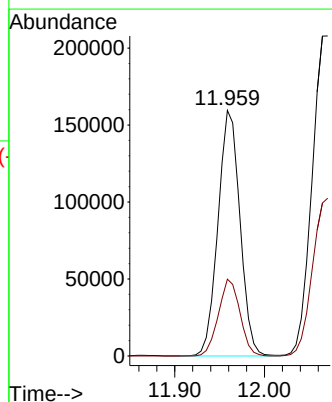
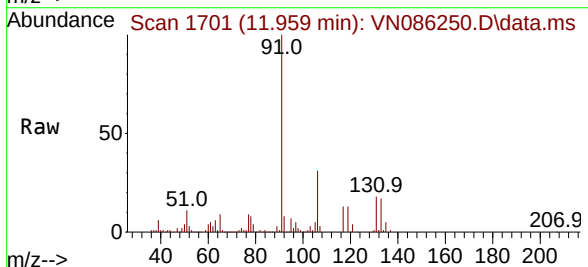
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

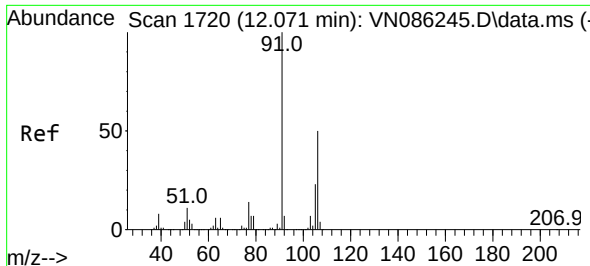
Tgt Ion:131 Resp: 51756
Ion Ratio Lower Upper
131 100
133 95.3 0.0 190.4
119 68.7 0.0 135.6



#66
Ethyl Benzene
Concen: 20.236 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 91 Resp: 271487
Ion Ratio Lower Upper
91 100
106 31.3 23.4 35.0

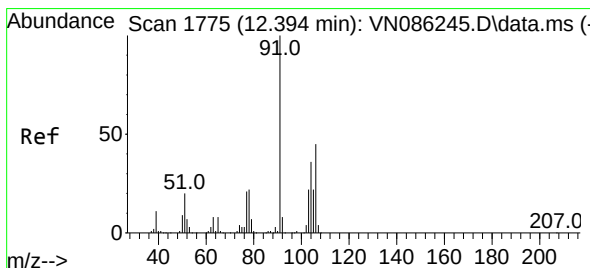
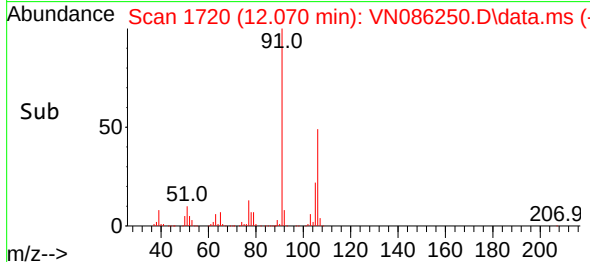
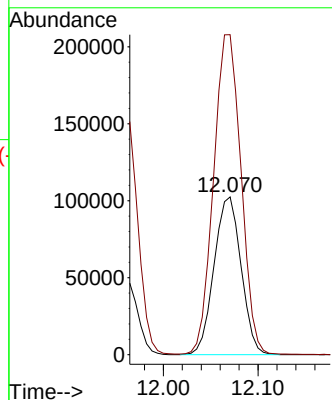
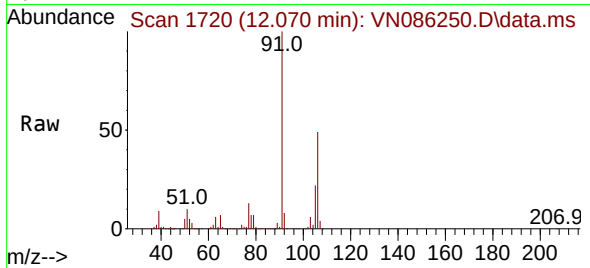




#67
m/p-Xylenes
Concen: 40.720 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

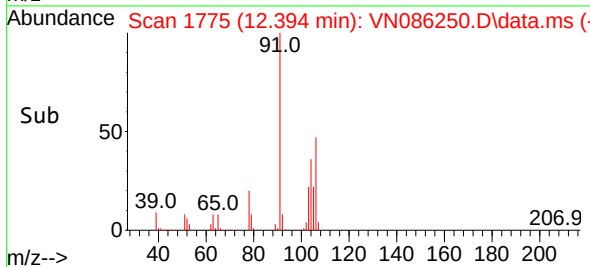
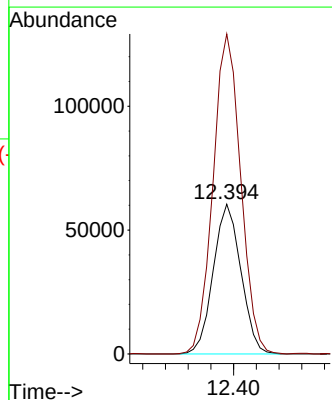
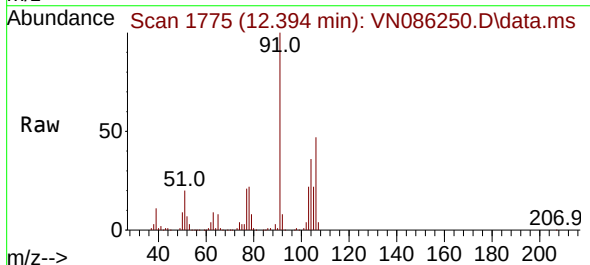
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

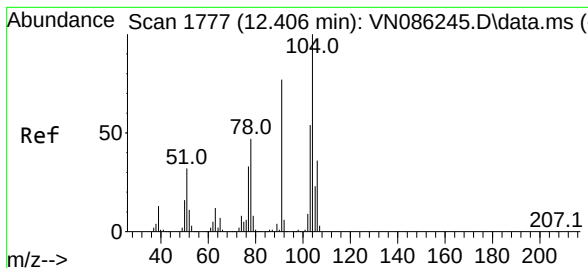
Tgt Ion:106 Resp: 203138
Ion Ratio Lower Upper
106 100
91 205.7 164.5 246.7



#68
o-Xylene
Concen: 20.842 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:106 Resp: 102269
Ion Ratio Lower Upper
106 100
91 214.0 109.8 329.4





#69

Styrene

Concen: 20.872 ug/l

RT: 12.406 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

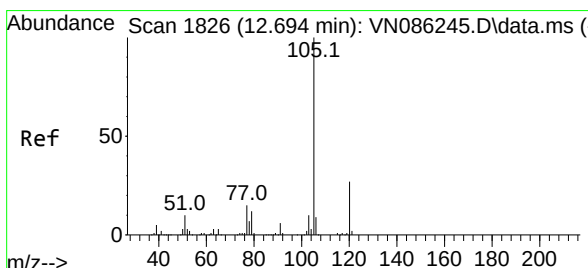
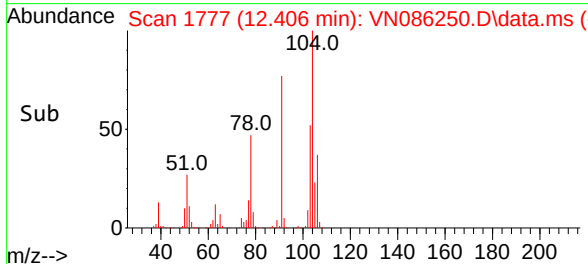
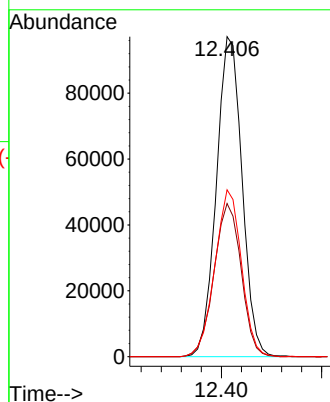
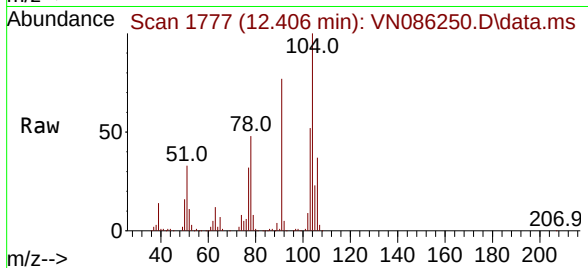
Tgt Ion:104 Resp: 172721

Ion Ratio Lower Upper

104 100

78 50.6 41.4 62.0

103 54.0 44.2 66.4



#70

Isopropylbenzene

Concen: 20.417 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086250.D

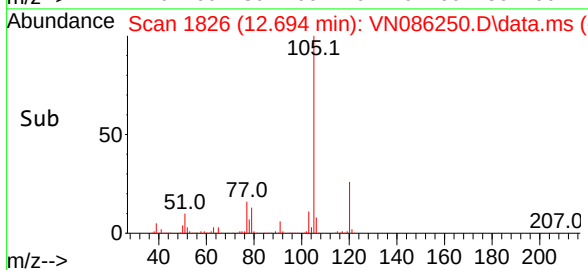
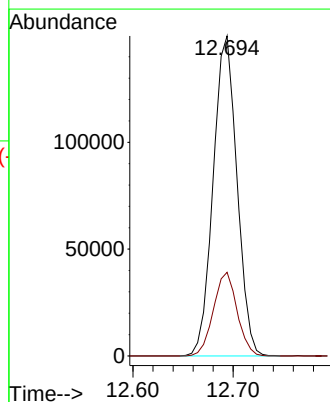
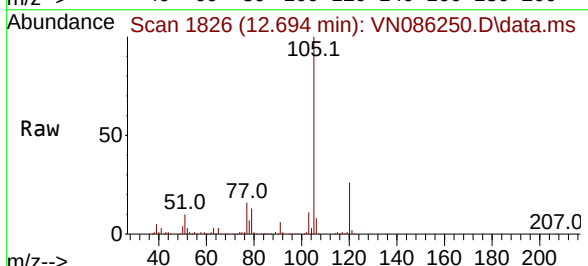
Acq: 11 Apr 2025 15:16

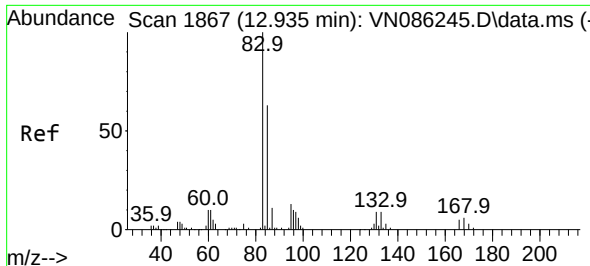
Tgt Ion:105 Resp: 247015

Ion Ratio Lower Upper

105 100

120 25.9 18.3 34.1

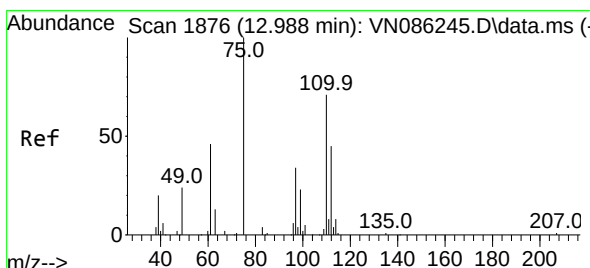
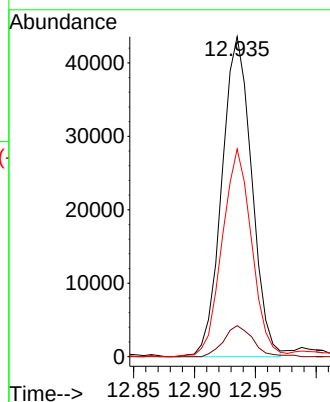
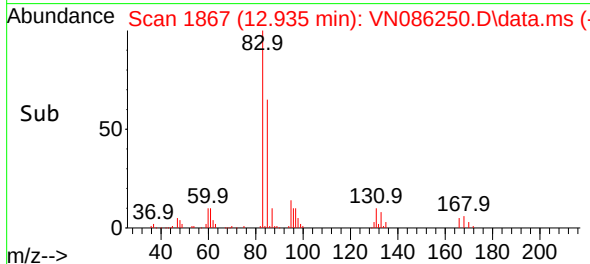
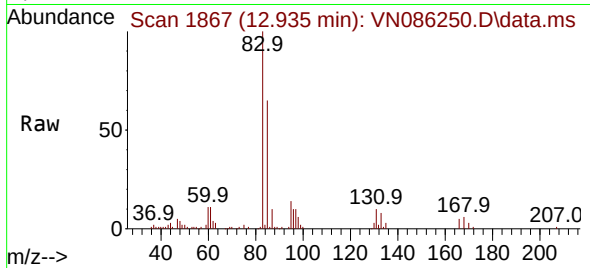




#71
1,1,2-Tetrachloroethane
Concen: 21.612 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

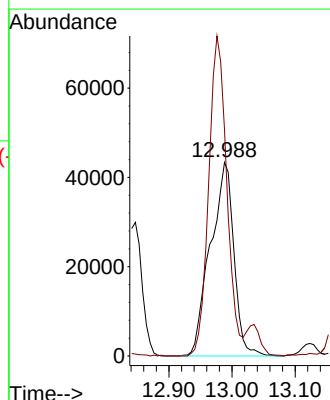
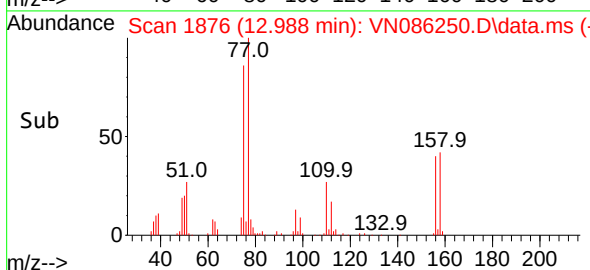
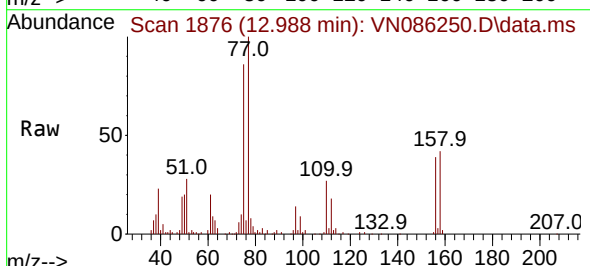
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

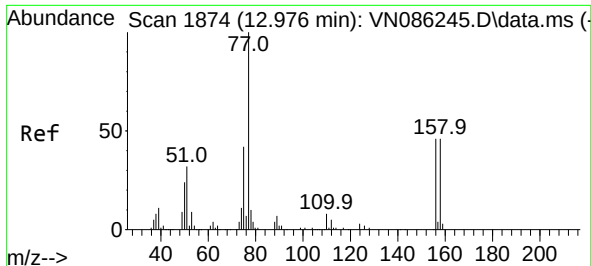
Tgt Ion: 83 Resp: 74426
Ion Ratio Lower Upper
83 100
131 9.4 4.8 14.3
85 63.0 32.3 96.8



#72
1,2,3-Trichloropropane
Concen: 31.263 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 75 Resp: 112068
Ion Ratio Lower Upper
75 100
77 127.9 0.0 380.0

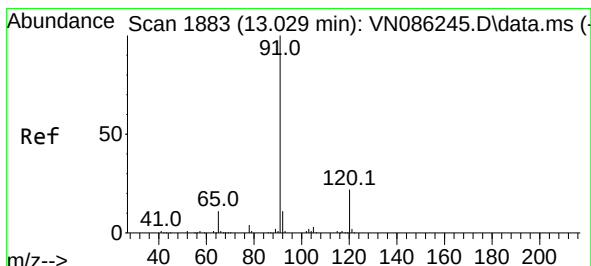
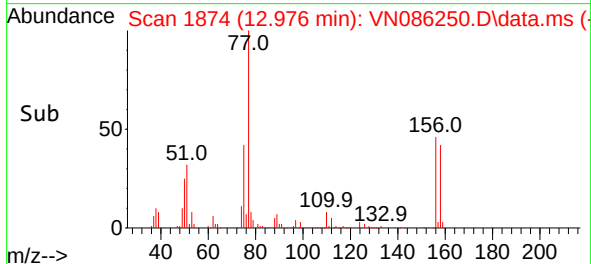
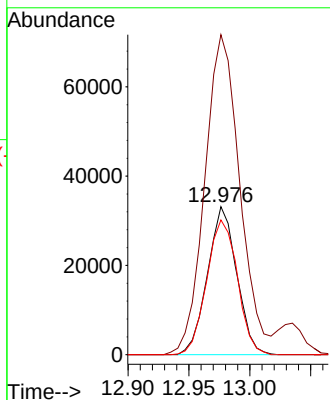
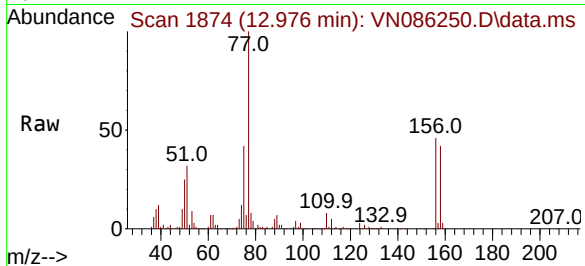




#73
Bromobenzene
Concen: 20.660 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

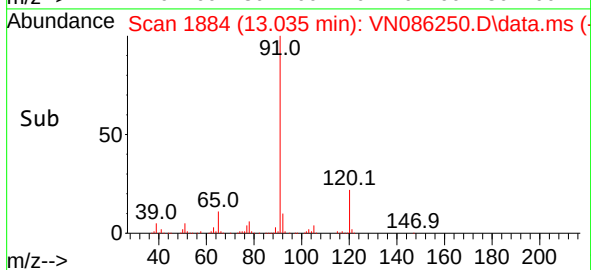
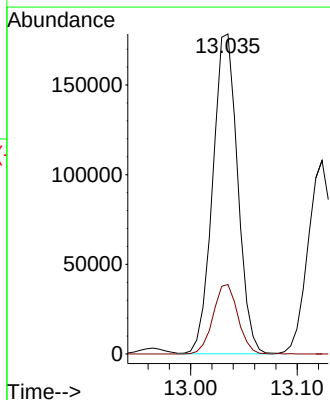
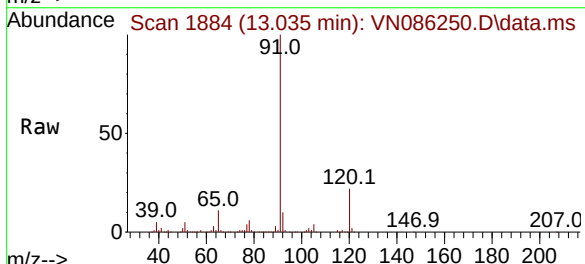
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

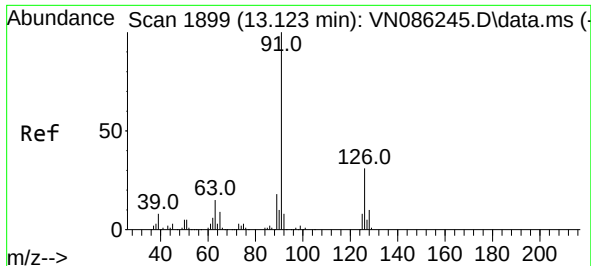
Tgt Ion:156 Resp: 55372
Ion Ratio Lower Upper
156 100
77 258.9 0.0 505.2
158 95.5 0.0 195.0



#74
n-propylbenzene
Concen: 20.330 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 91 Resp: 290430
Ion Ratio Lower Upper
91 100
120 21.5 0.0 44.0

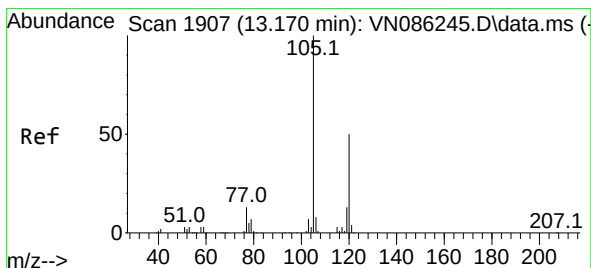
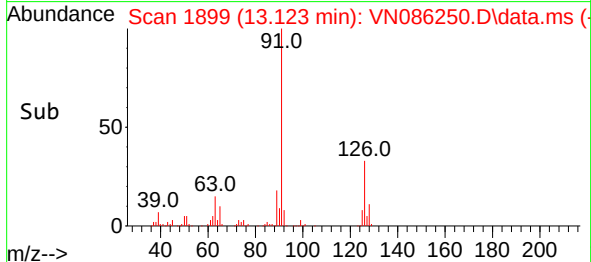
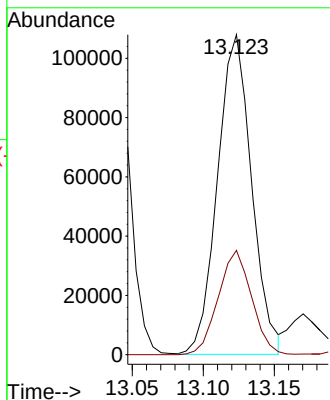
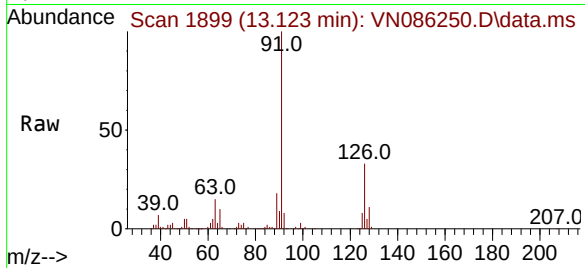




#75
2-Chlorotoluene
Concen: 20.074 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

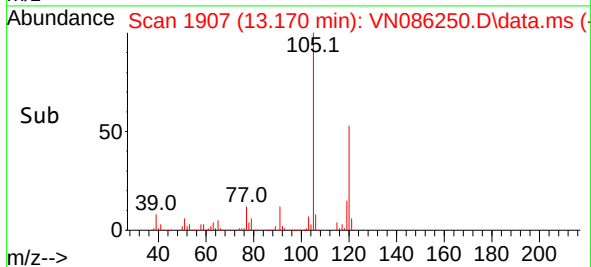
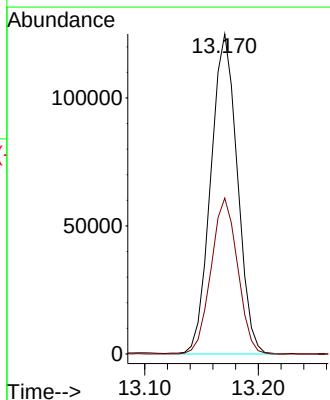
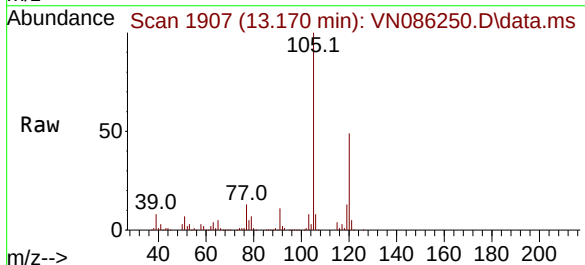
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

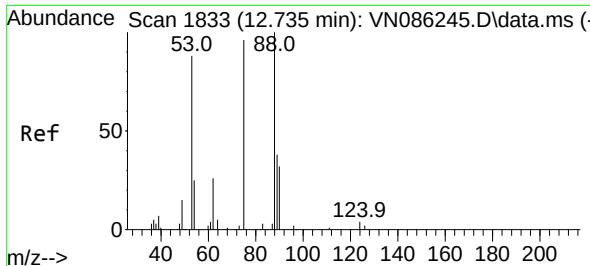
Tgt Ion: 91 Resp: 180253
Ion Ratio Lower Upper
91 100
126 31.8 0.0 63.4



#76
1,3,5-Trimethylbenzene
Concen: 20.450 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 105 Resp: 203242
Ion Ratio Lower Upper
105 100
120 48.5 0.0 98.0

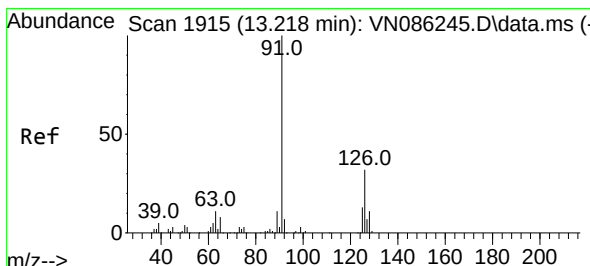
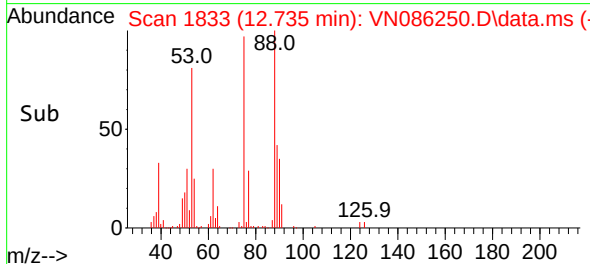
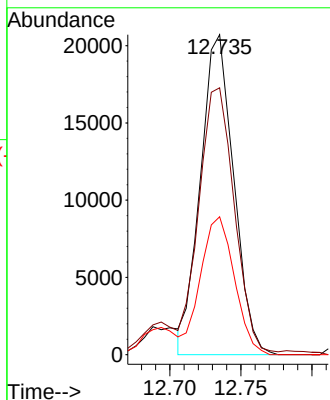
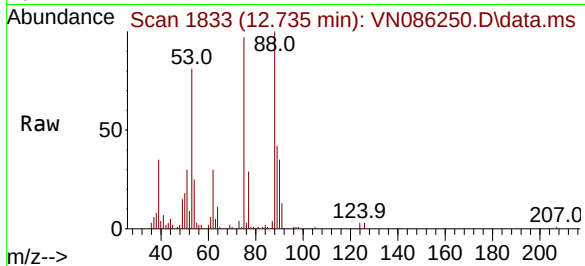




#77
t-1,4-Dichloro-2-butene
Concen: 20.436 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

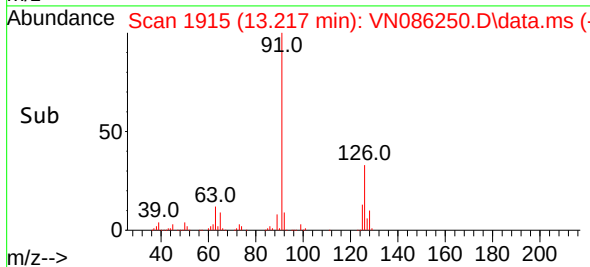
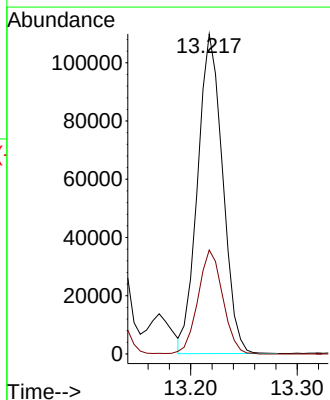
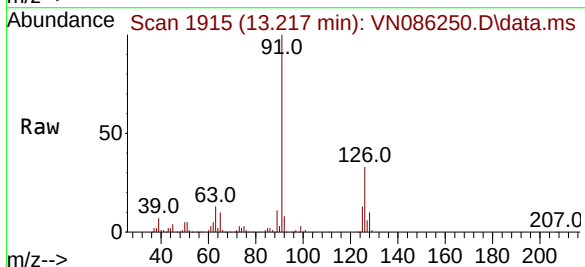
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

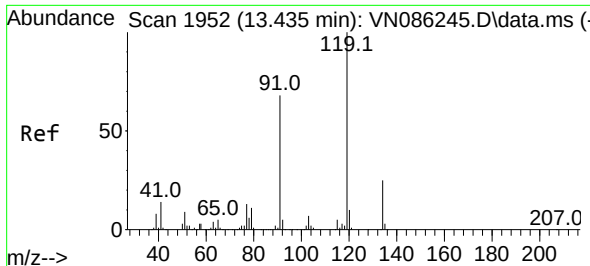
Tgt Ion: 75 Resp: 33778
Ion Ratio Lower Upper
75 100
53 82.5 46.4 139.2
89 43.1 22.5 67.5



#78
4-Chlorotoluene
Concen: 19.997 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 91 Resp: 179336
Ion Ratio Lower Upper
91 100
126 32.1 0.0 63.2

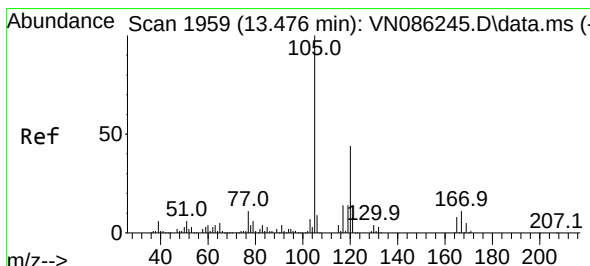
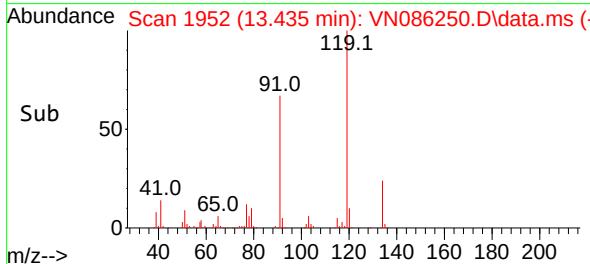
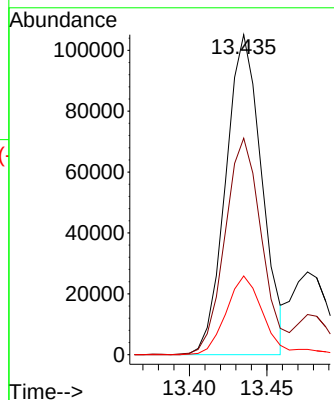
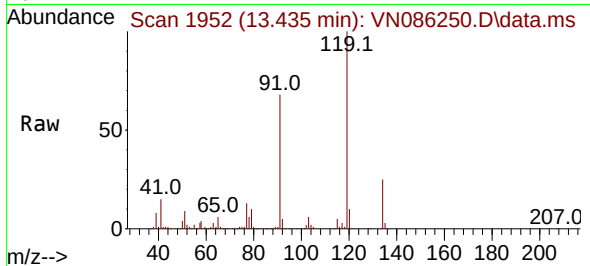




#79
tert-butylbenzene
Concen: 19.806 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

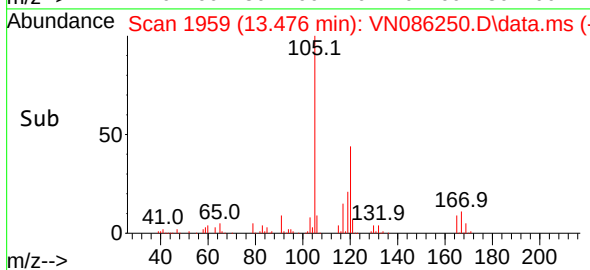
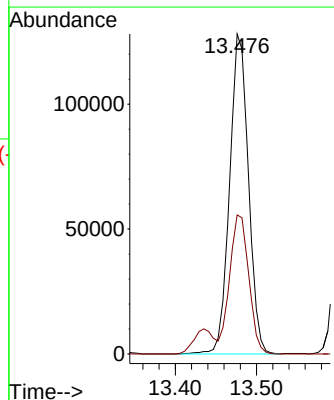
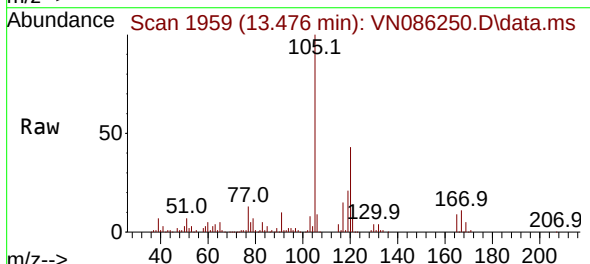
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

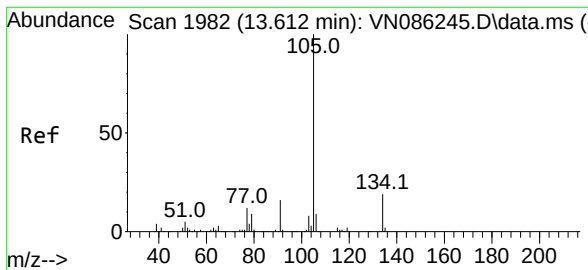
Tgt Ion:119 Resp: 170326
Ion Ratio Lower Upper
119 100
91 69.3 0.0 136.6
134 24.5 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 20.464 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:105 Resp: 206236
Ion Ratio Lower Upper
105 100
120 44.1 0.0 91.0

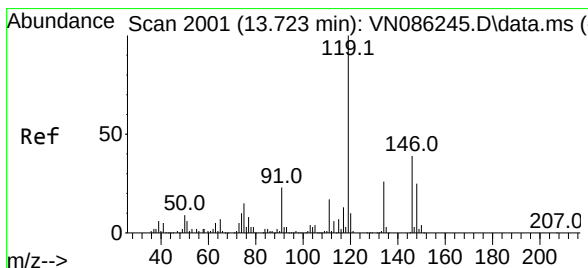
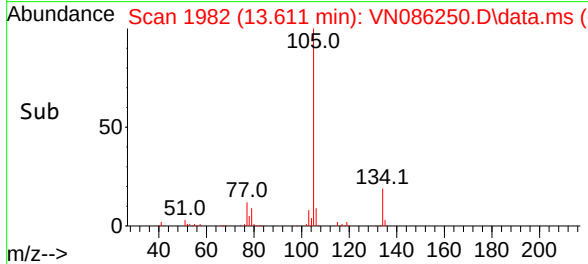
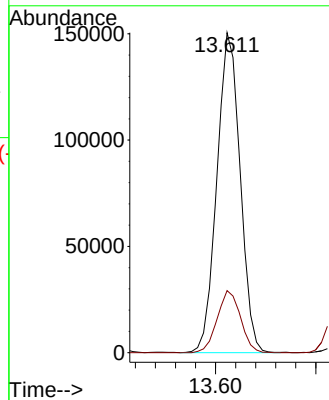
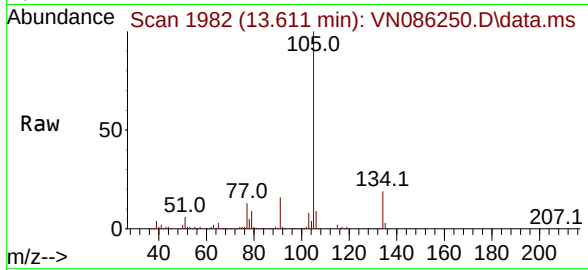




#81
sec-Butylbenzene
Concen: 20.202 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

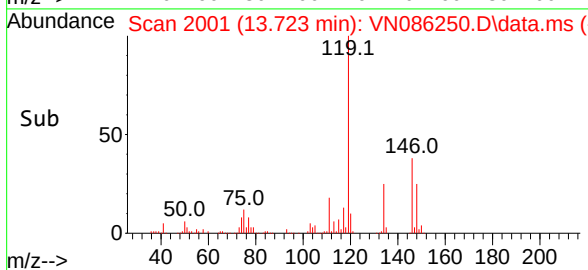
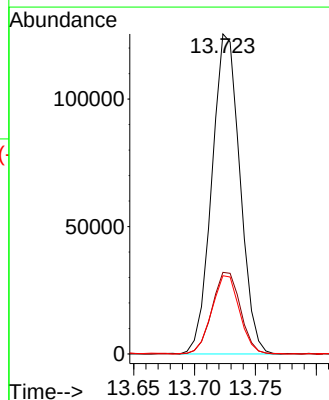
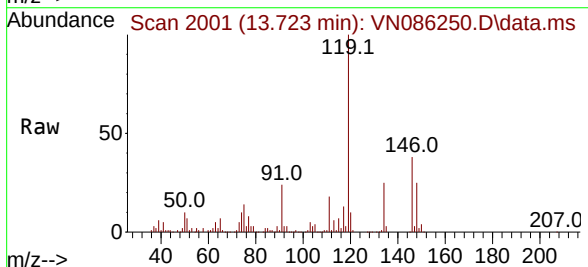
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

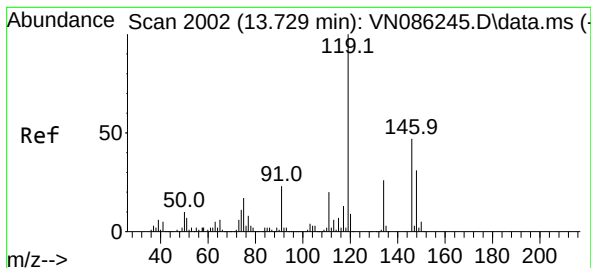
Tgt Ion:105 Resp: 242336
Ion Ratio Lower Upper
105 100
134 19.4 0.0 38.6



#82
p-Isopropyltoluene
Concen: 20.098 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:119 Resp: 201123
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 24.4 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 20.332 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01

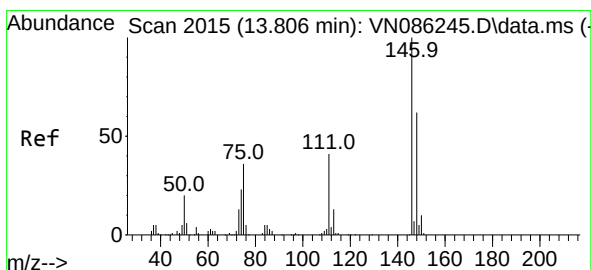
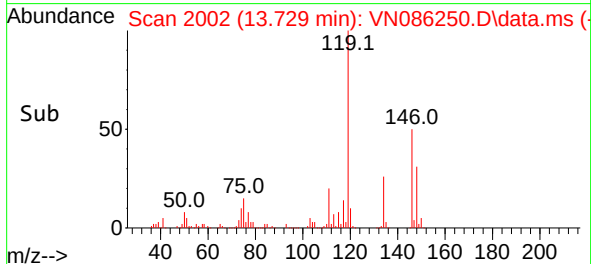
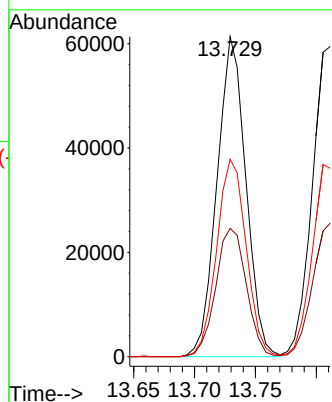
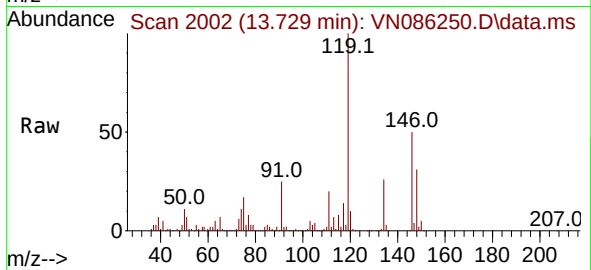
Tgt Ion:146 Resp: 101287

Ion Ratio Lower Upper

146 100

111 42.6 21.7 65.1

148 63.1 32.3 96.8



#84

1,4-Dichlorobenzene

Concen: 20.144 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

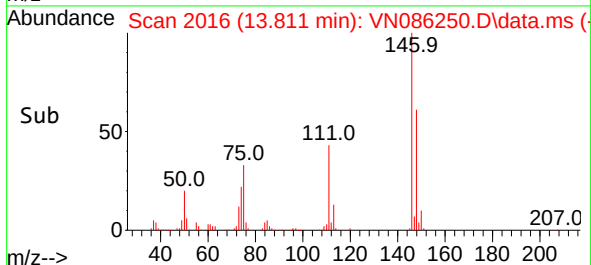
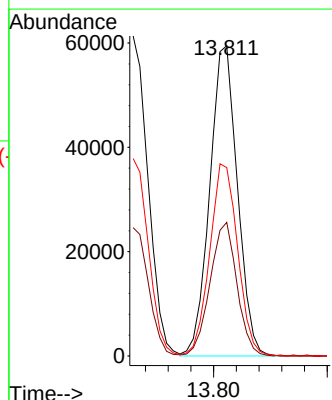
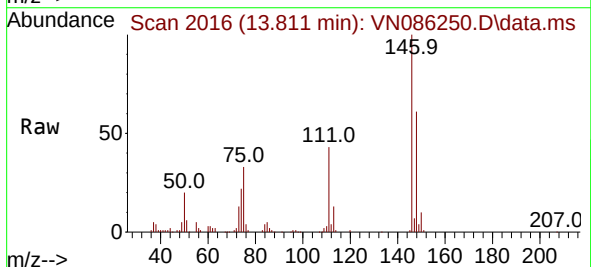
Tgt Ion:146 Resp: 100671

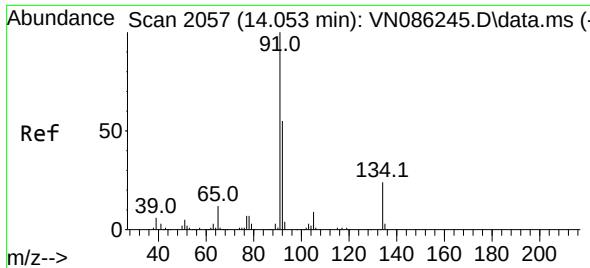
Ion Ratio Lower Upper

146 100

111 41.9 20.8 62.4

148 62.5 31.9 95.5

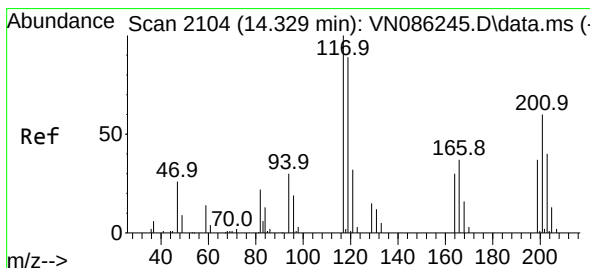
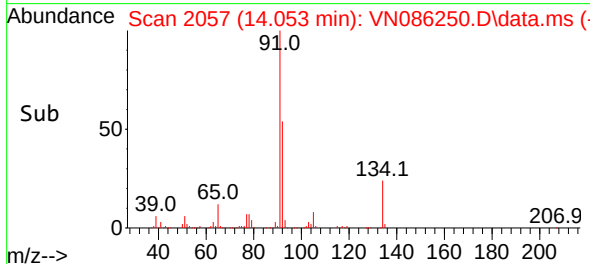
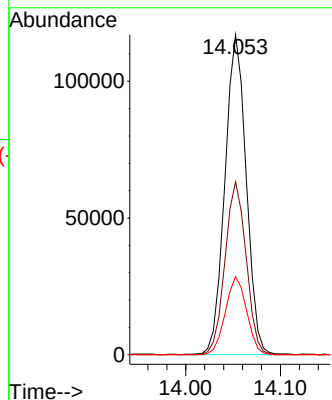
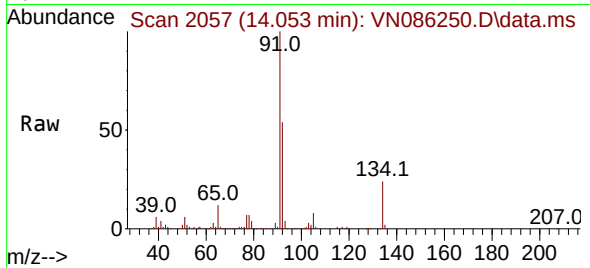




#85
n-Butylbenzene
Concen: 20.279 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

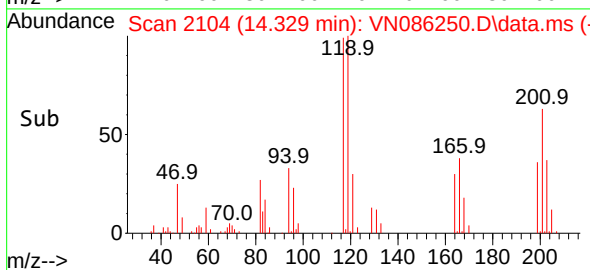
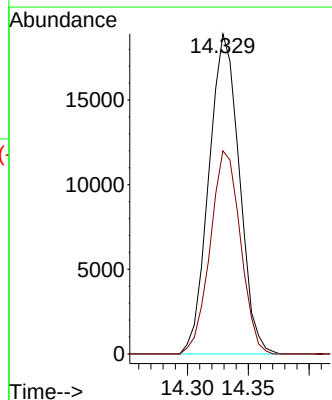
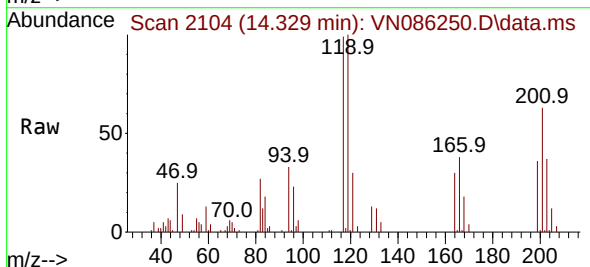
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

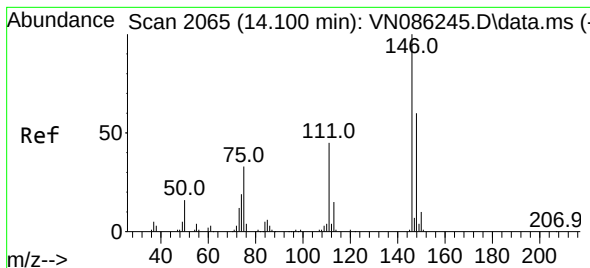
Tgt Ion: 91 Resp: 183068
Ion Ratio Lower Upper
91 100
92 53.4 0.0 109.4
134 24.2 0.0 48.2



#86
Hexachloroethane
Concen: 19.494 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion: 117 Resp: 32907
Ion Ratio Lower Upper
117 100
201 63.0 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 20.514 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN086250.D

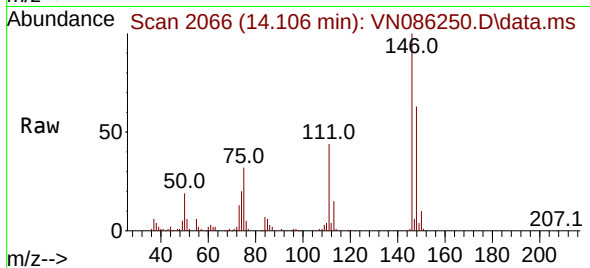
Acq: 11 Apr 2025 15:16

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBSD01



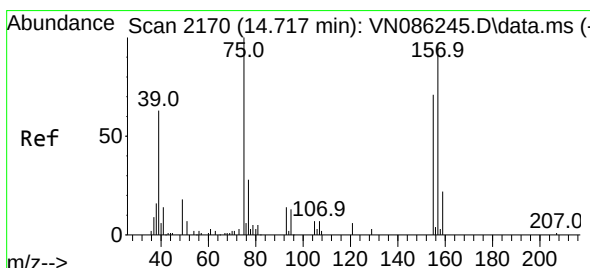
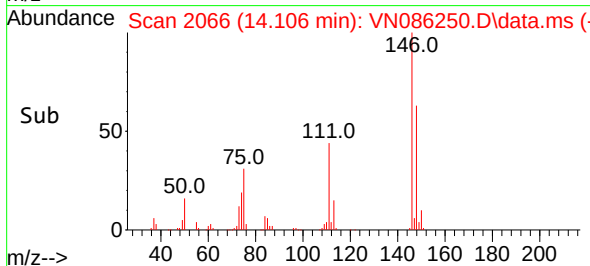
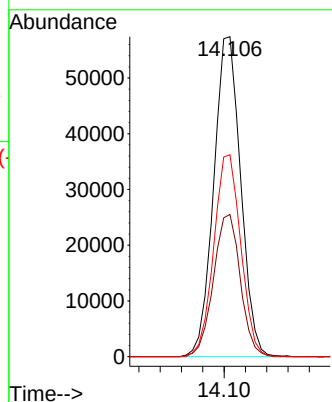
Tgt Ion:146 Resp: 100901

Ion Ratio Lower Upper

146 100

111 44.3 22.7 68.0

148 63.1 31.8 95.3



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.539 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086250.D

Acq: 11 Apr 2025 15:16

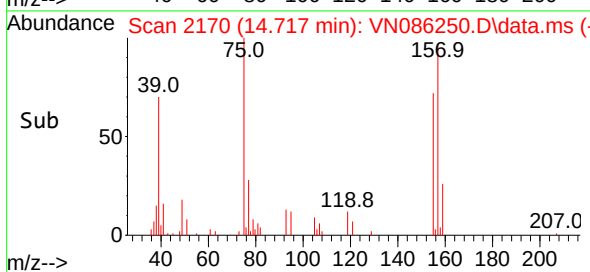
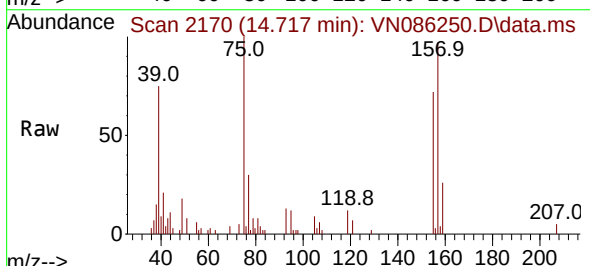
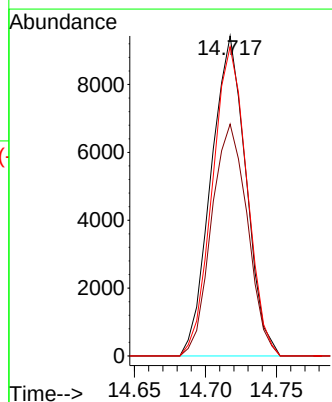
Tgt Ion: 75 Resp: 16110

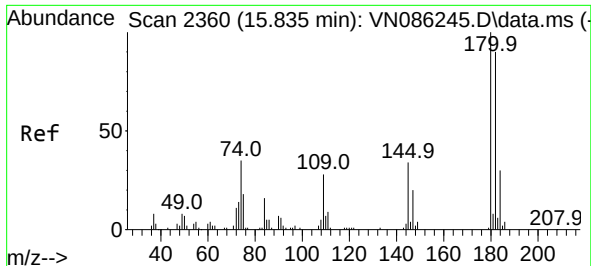
Ion Ratio Lower Upper

75 100

155 74.4 60.3 90.5

157 95.2 79.0 118.4

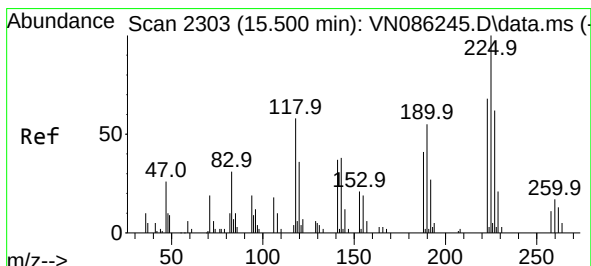
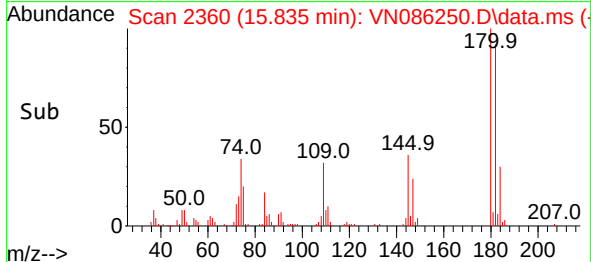
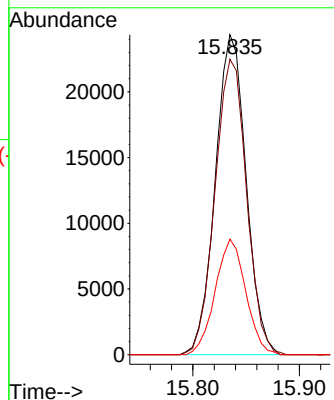
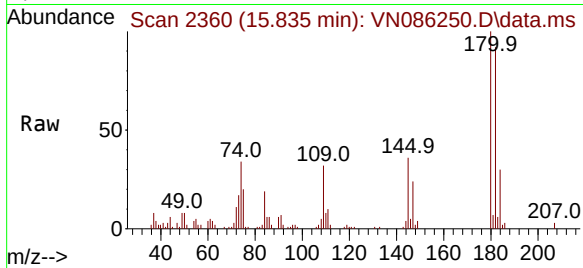




#89
 1,2,4-Trichlorobenzene
 Concen: 20.472 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

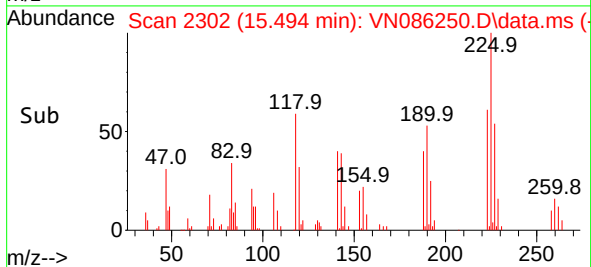
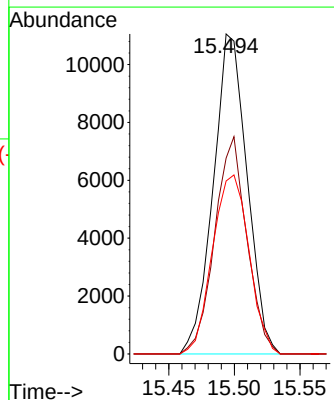
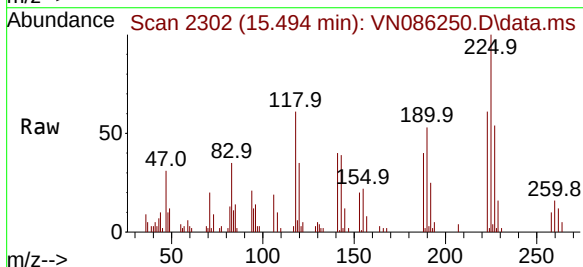
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

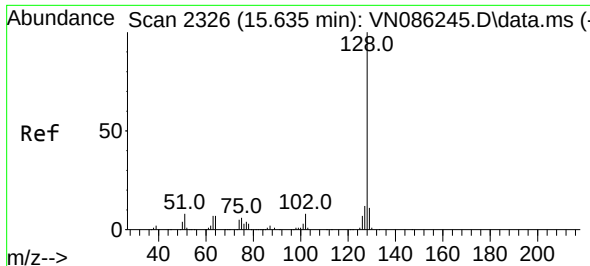
Tgt Ion:180 Resp: 48993
 Ion Ratio Lower Upper
 180 100
 182 94.3 75.1 112.7
 145 35.7 27.1 40.7



#90
 Hexachlorobutadiene
 Concen: 19.213 ug/l
 RT: 15.494 min Scan# 2302
 Delta R.T. -0.006 min
 Lab File: VN086250.D
 Acq: 11 Apr 2025 15:16

Tgt Ion:225 Resp: 19853
 Ion Ratio Lower Upper
 225 100
 223 64.4 0.0 130.0
 227 60.3 0.0 123.2

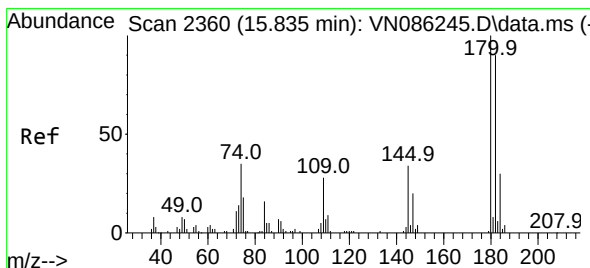
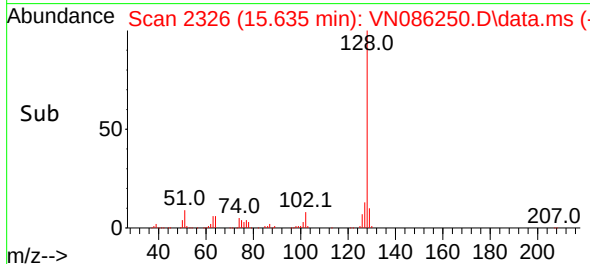
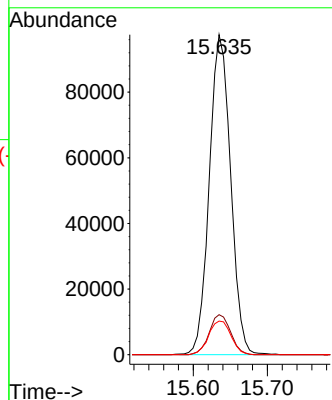
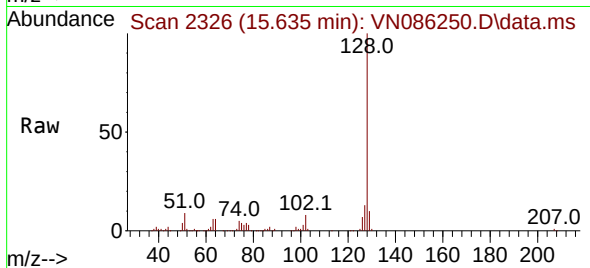




#91
Naphthalene
Concen: 20.655 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

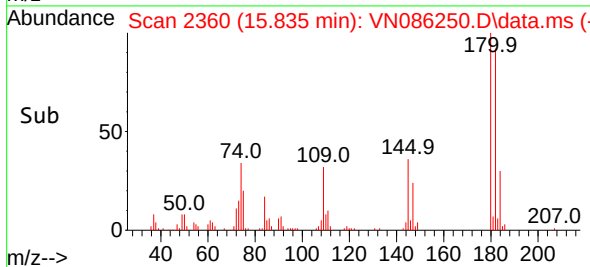
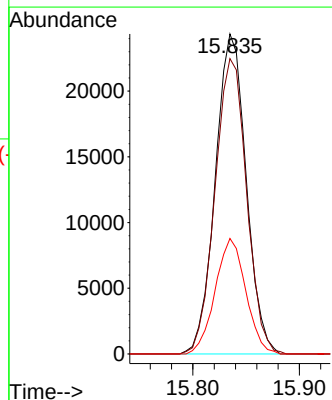
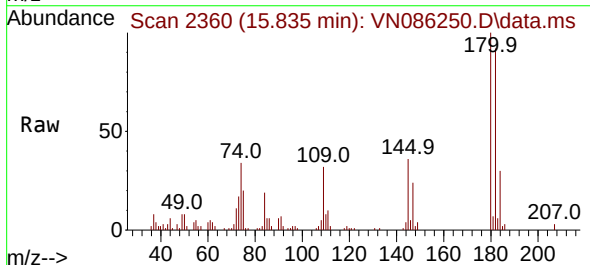
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBSD01

Tgt Ion:128 Resp: 194900
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.2
129 11.1 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 20.472 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086250.D
Acq: 11 Apr 2025 15:16

Tgt Ion:180 Resp: 48993
Ion Ratio Lower Upper
180 100
182 94.3 0.0 187.8
145 35.7 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086253.D
 Acq On : 11 Apr 2025 16:39
 Operator : JC\MD
 Sample : Q1774-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-074-IDWGW-20250409

Quant Time: Apr 12 01:51:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

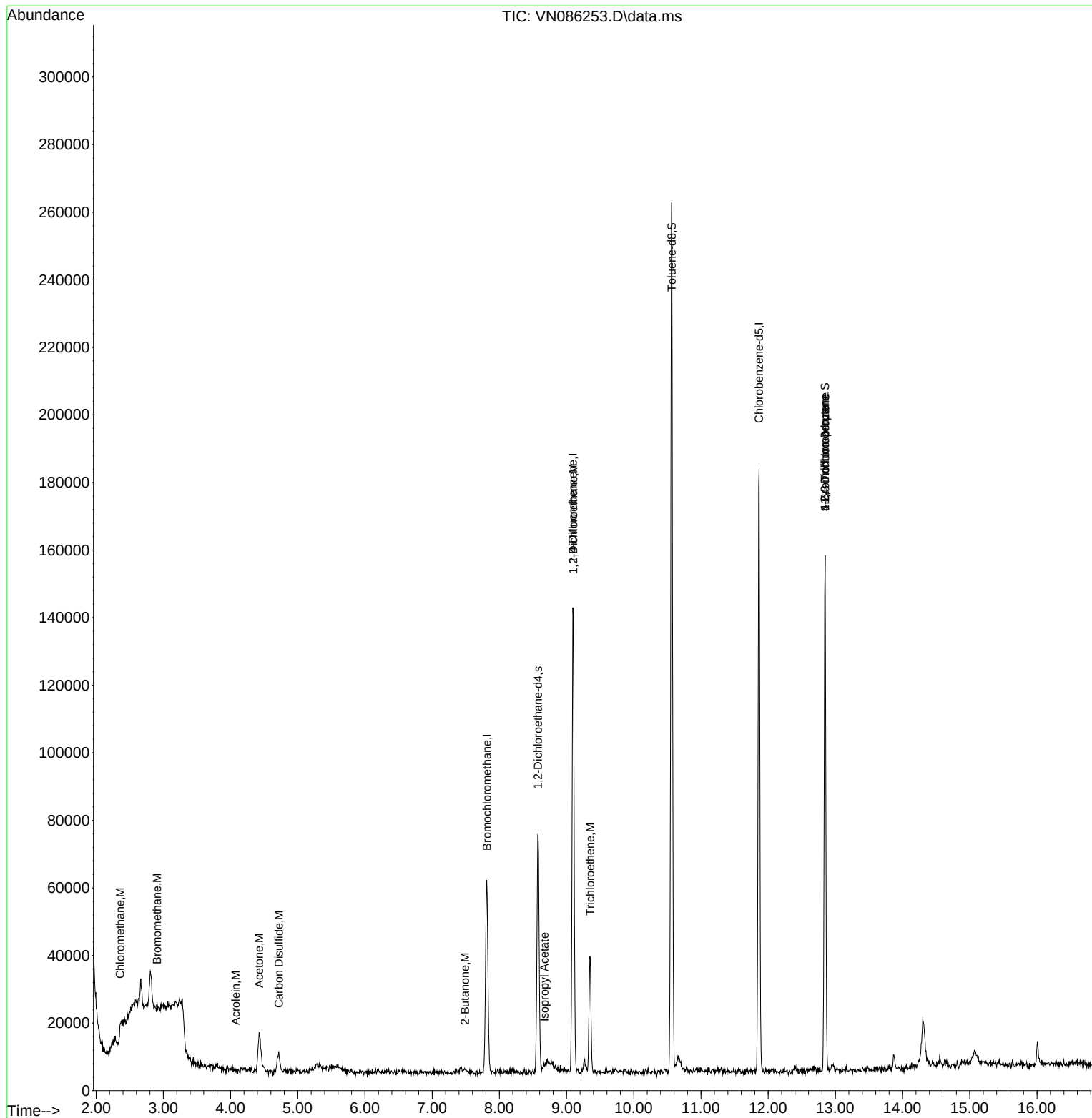
Internal Standards						
1) Bromochloromethane	7.818	128	19774	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	120171	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	102960	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	58937	30.558	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.867%
60) 4-Bromofluorobenzene	12.847	95	58540	28.558	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.200%
63) Toluene-d8	10.565	98	179971	30.962	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.200%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1598	0.730	ug/l #	67
5) Bromomethane	2.906	94	290	0.279	ug/l	90
13) Acrolein	4.077	56	204	0.844	ug/l	99
15) Acetone	4.424	58	3770	16.564	ug/l	87
16) Carbon Disulfide	4.718	76	1595	0.369	ug/l #	74
30) 2-Butanone	7.488	43	387	0.324	ug/l #	38
36) 1,2-Dichloroethane	9.100	62	4260	1.988	ug/l #	76
37) Trichloroethene	9.353	130	12262	7.420	ug/l	96
44) Isopropyl Acetate	8.671	43	1530	0.343	ug/l #	49
72) 1,2,3-Trichloropropane	12.847	75	29485	14.409	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	29485	31.250	ug/l #	12

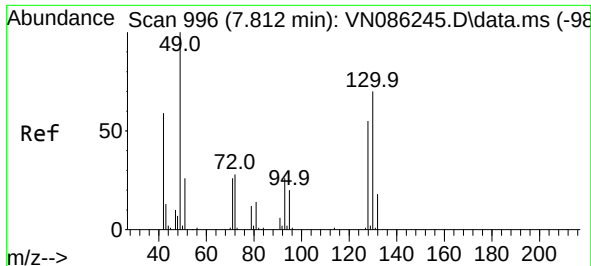
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086253.D
Acq On : 11 Apr 2025 16:39
Operator : JC\MD
Sample : Q1774-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

Quant Time: Apr 12 01:51:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

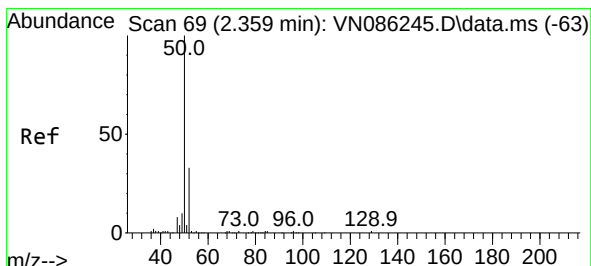
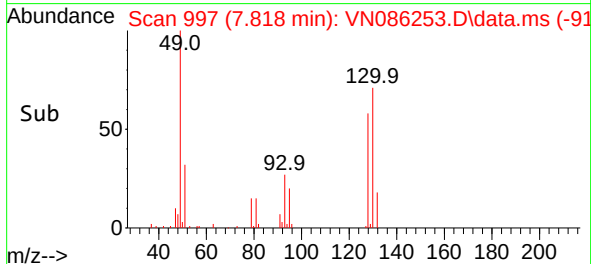
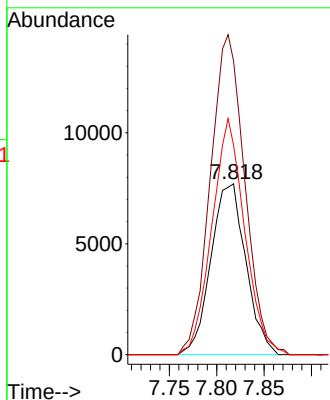
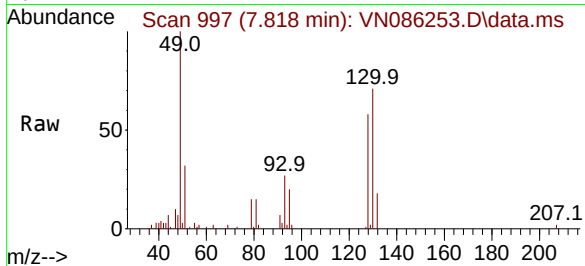




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

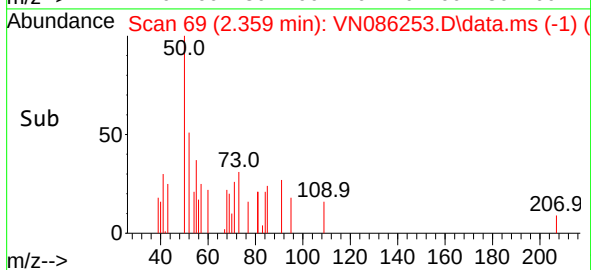
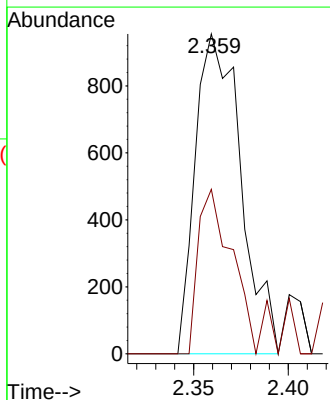
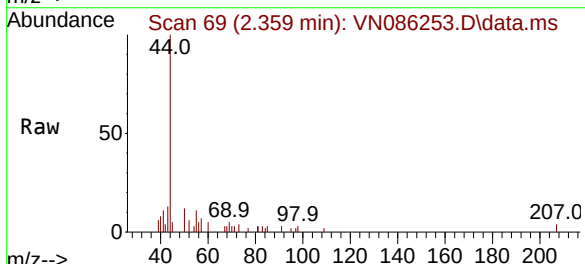
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

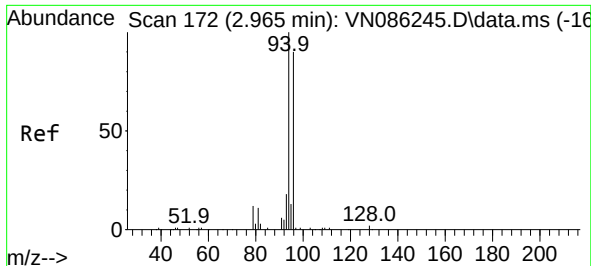
Tgt Ion:128 Resp: 19774
Ion Ratio Lower Upper
128 100
49 184.1 0.0 452.5
130 129.7 0.0 315.0



#3
Chloromethane
Concen: 0.730 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 50 Resp: 1598
Ion Ratio Lower Upper
50 100
52 51.4 26.4 39.6#

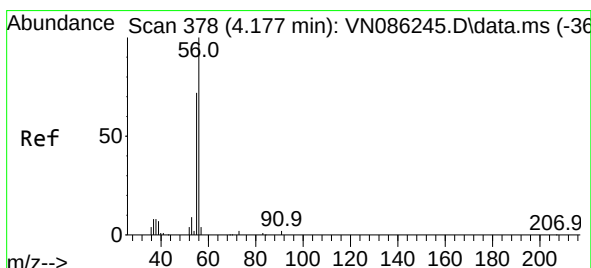
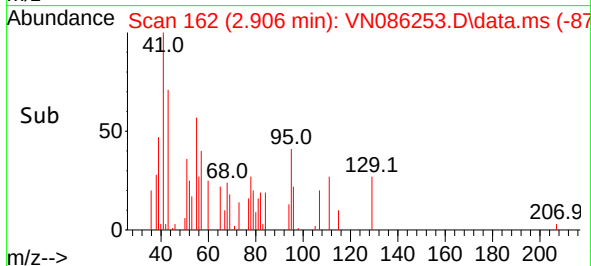
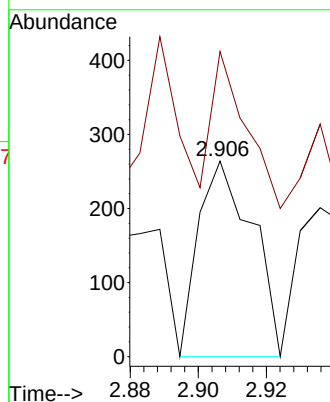
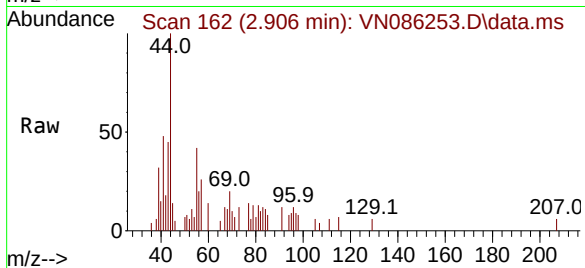




#5
Bromomethane
Concen: 0.279 ug/l
RT: 2.906 min Scan# 1
Delta R.T. -0.059 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

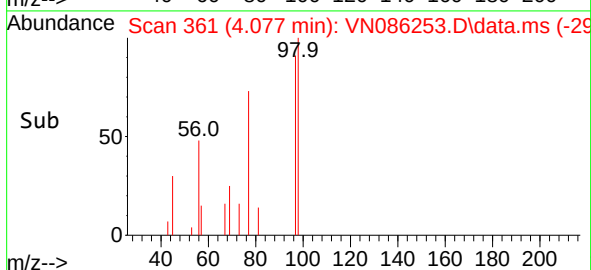
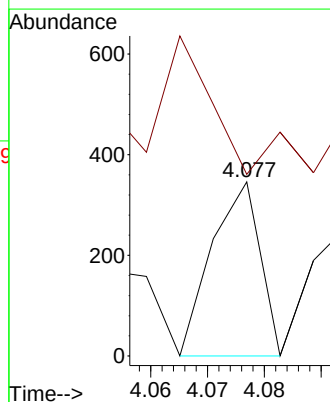
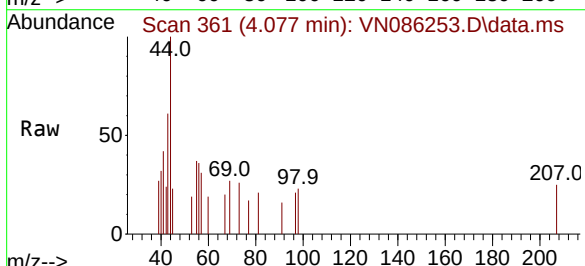
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

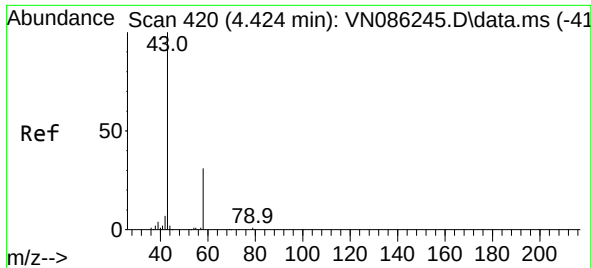
Tgt Ion: 94 Resp: 290
Ion Ratio Lower Upper
94 100
96 80.3 72.2 108.2



#13
Acrolein
Concen: 0.844 ug/l
RT: 4.077 min Scan# 361
Delta R.T. -0.100 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 56 Resp: 204
Ion Ratio Lower Upper
56 100
55 71.6 56.5 84.7





#15

Acetone

Concen: 16.564 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086253.D

Acq: 11 Apr 2025 16:39

Instrument :

MSVOA_N

ClientSampleId :

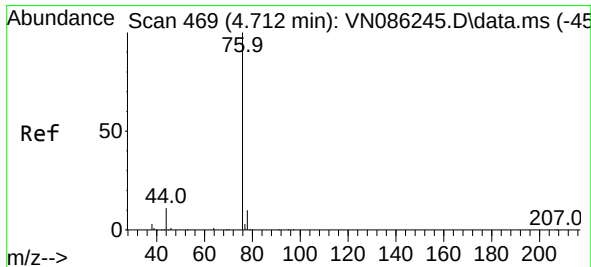
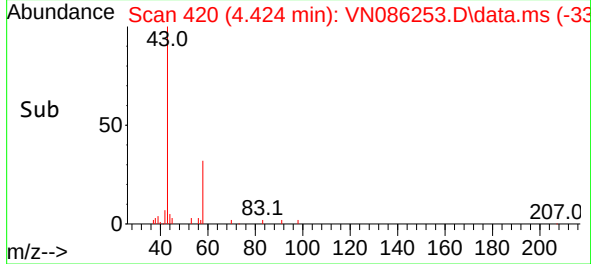
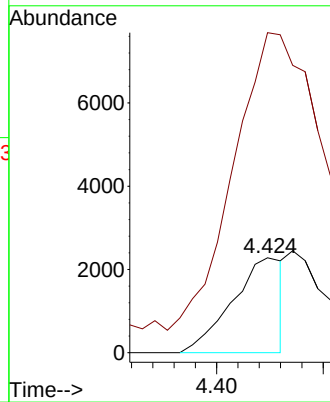
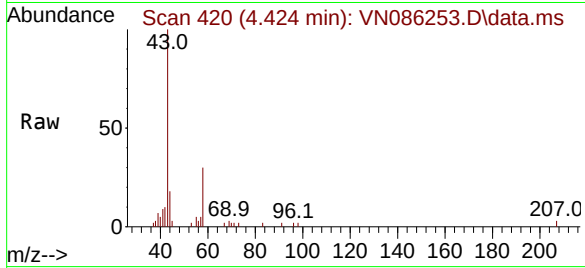
TT-074-IDWGW-20250409

Tgt Ion: 58 Resp: 3770

Ion Ratio Lower Upper

58 100

43 300.8 261.8 392.8



#16

Carbon Disulfide

Concen: 0.369 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN086253.D

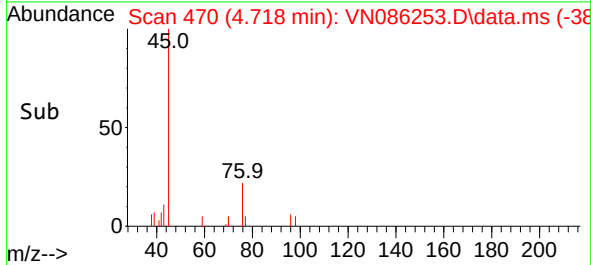
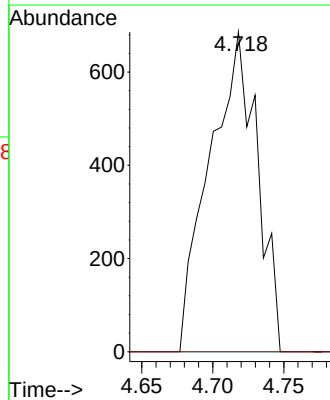
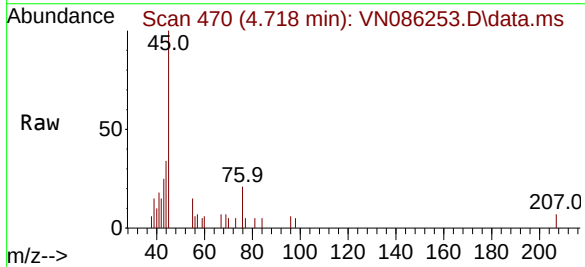
Acq: 11 Apr 2025 16:39

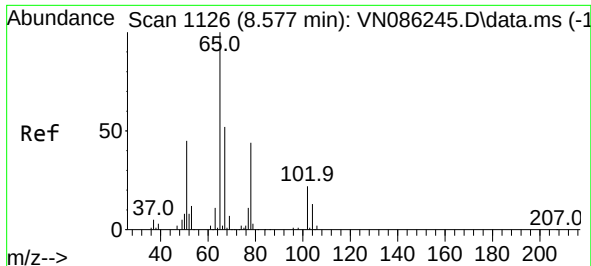
Tgt Ion: 76 Resp: 1595

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#27

1,2-Dichloroethane-d4

Concen: 30.558 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086253.D

Acq: 11 Apr 2025 16:39

Instrument :

MSVOA_N

ClientSampleId :

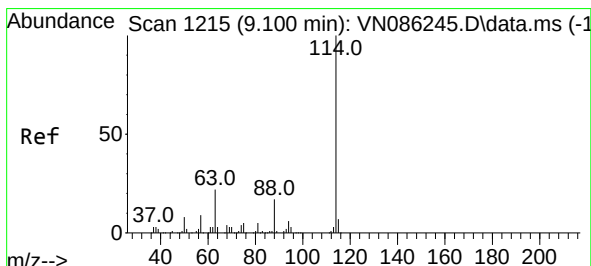
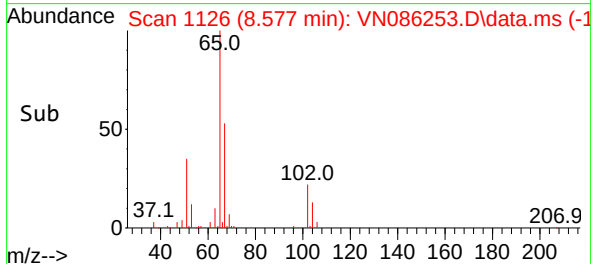
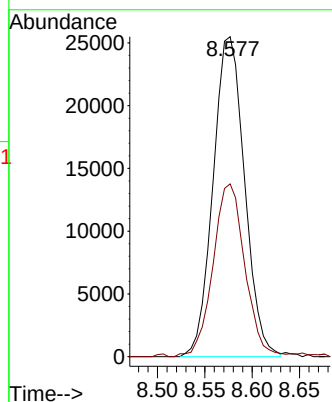
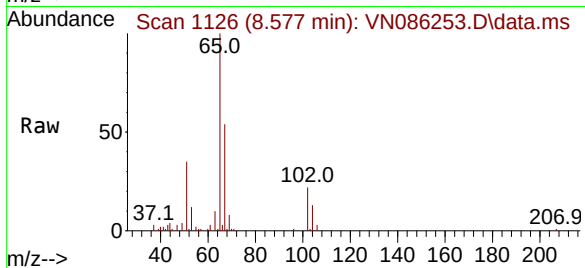
TT-074-IDWGW-20250409

Tgt Ion: 65 Resp: 58937

Ion Ratio Lower Upper

65 100

67 53.6 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN086253.D

Acq: 11 Apr 2025 16:39

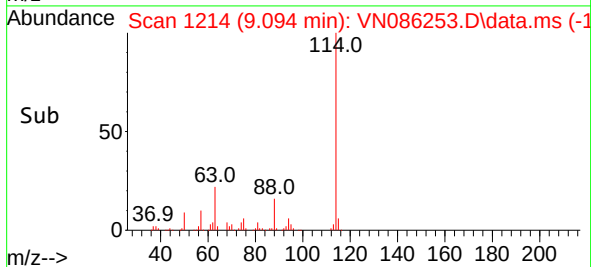
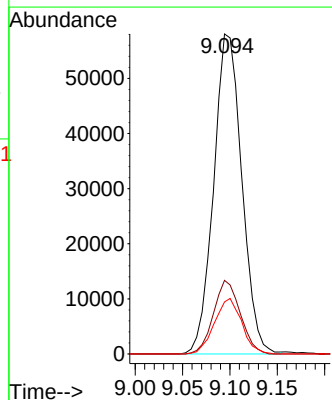
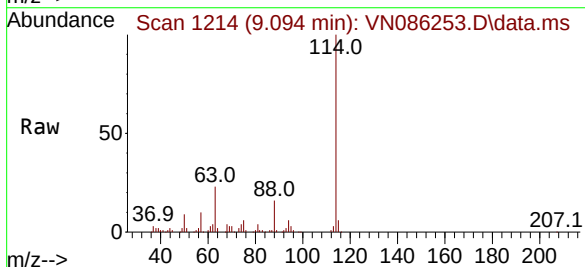
Tgt Ion: 114 Resp: 120171

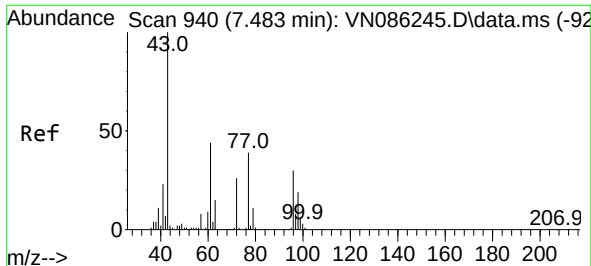
Ion Ratio Lower Upper

114 100

63 21.8 17.8 26.6

88 16.8 13.4 20.2

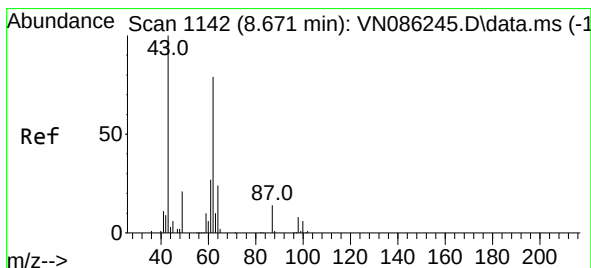
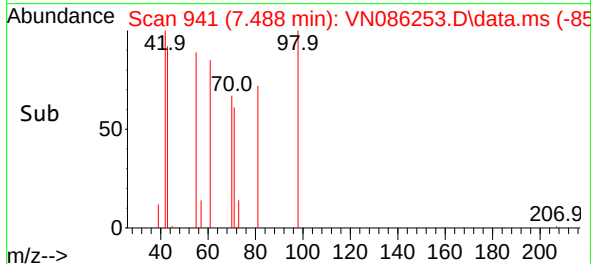
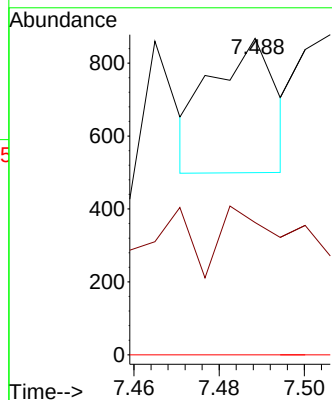
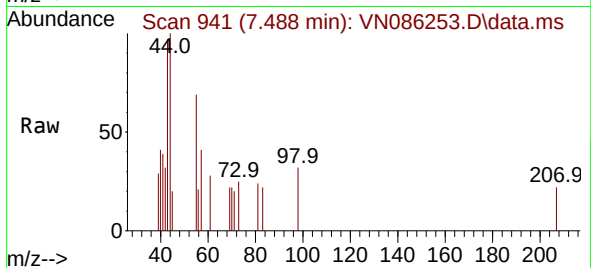




#30
2-Butanone
Concen: 0.324 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

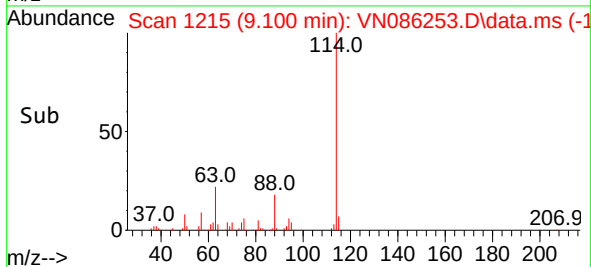
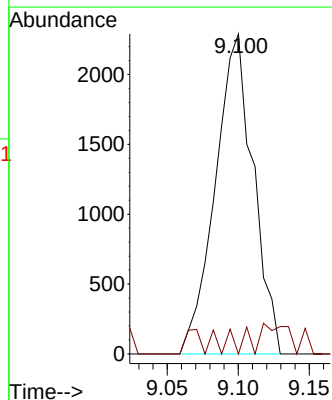
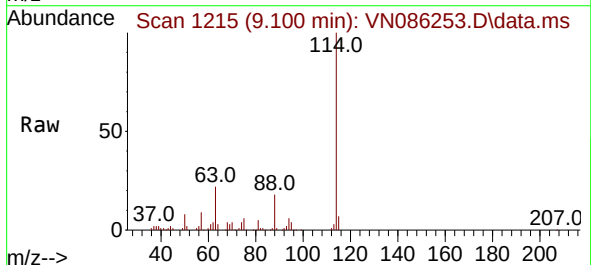
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

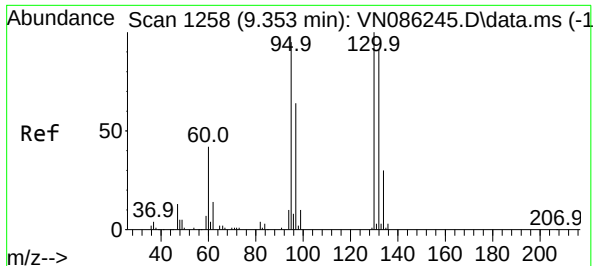
Tgt Ion: 43 Resp: 387
Ion Ratio Lower Upper
43 100
57 41.9 6.4 9.6#
72 0.0 21.5 32.3#



#36
1,2-Dichloroethane
Concen: 1.988 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

Tgt Ion: 62 Resp: 4260
Ion Ratio Lower Upper
62 100
98 1.6 8.6 12.8#





#37

Trichloroethene

Concen: 7.420 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086253.D

Acq: 11 Apr 2025 16:39

Instrument :

MSVOA_N

ClientSampleId :

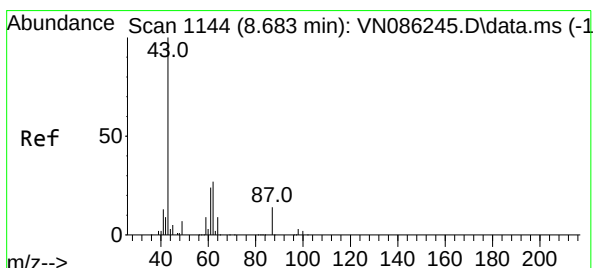
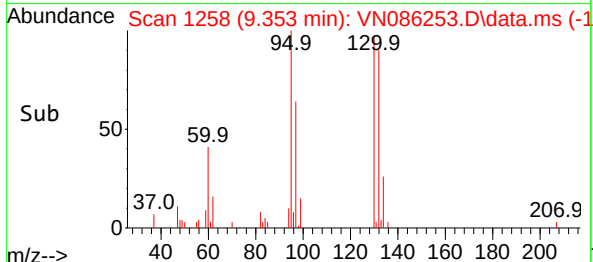
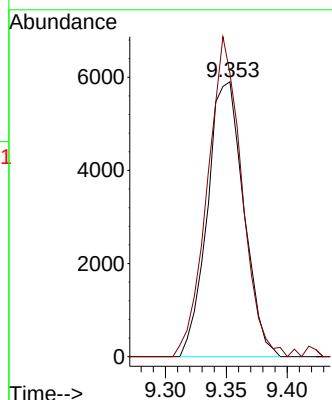
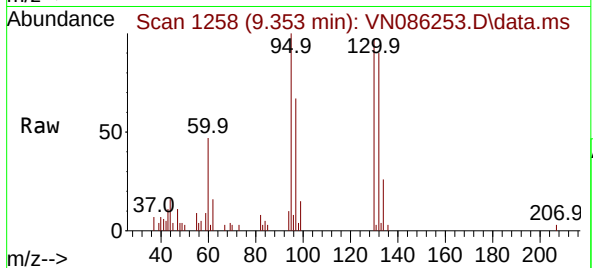
TT-074-IDWGW-20250409

Tgt Ion:130 Resp: 12262

Ion Ratio Lower Upper

130 100

95 99.6 76.4 114.6



#44

Isopropyl Acetate

Concen: 0.343 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.012 min

Lab File: VN086253.D

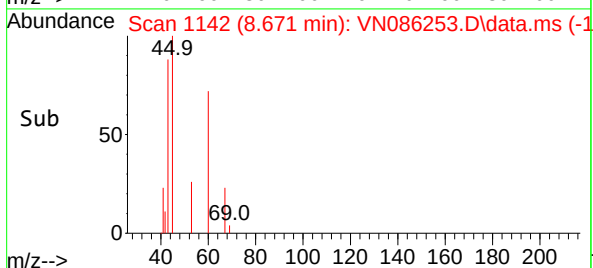
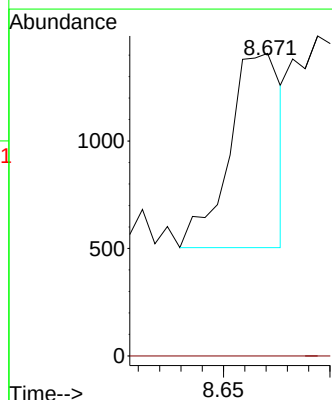
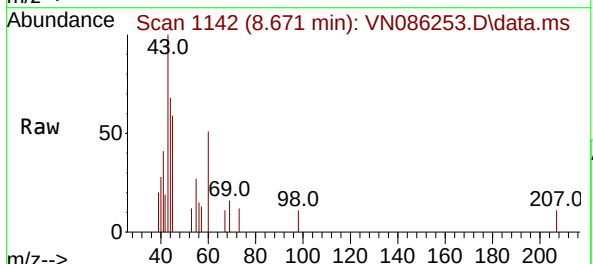
Acq: 11 Apr 2025 16:39

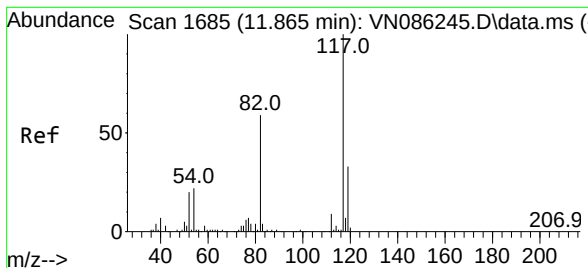
Tgt Ion: 43 Resp: 1530

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086253.D

Acq: 11 Apr 2025 16:39

Instrument :

MSVOA_N

ClientSampleId :

TT-074-IDWGW-20250409

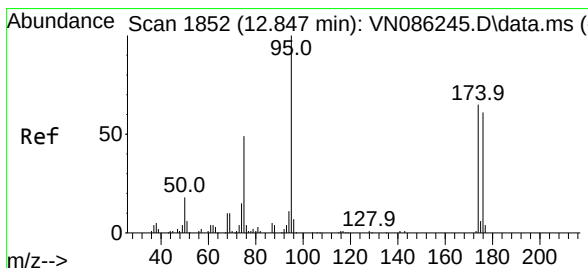
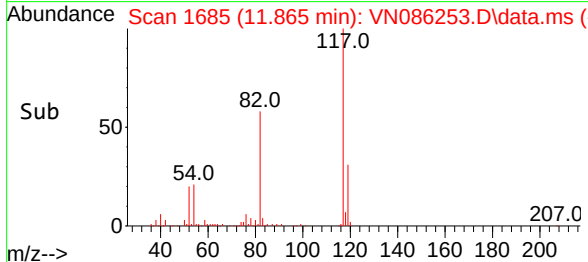
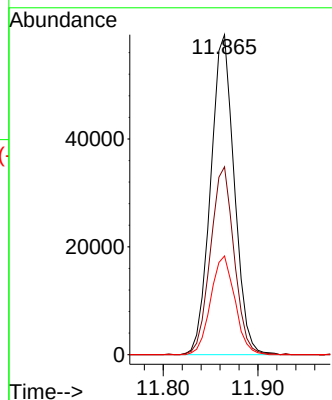
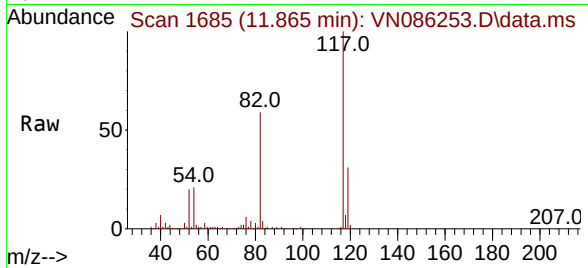
Tgt Ion:117 Resp: 102960

Ion Ratio Lower Upper

117 100

82 59.0 47.3 70.9

119 31.6 25.9 38.9



#60

4-Bromofluorobenzene

Concen: 28.558 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN086253.D

Acq: 11 Apr 2025 16:39

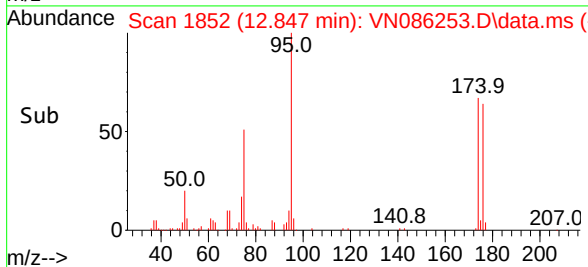
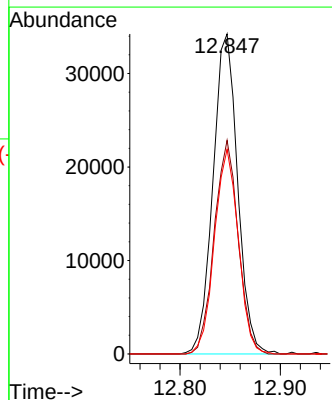
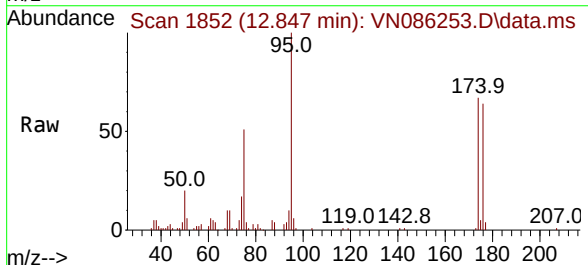
Tgt Ion: 95 Resp: 58540

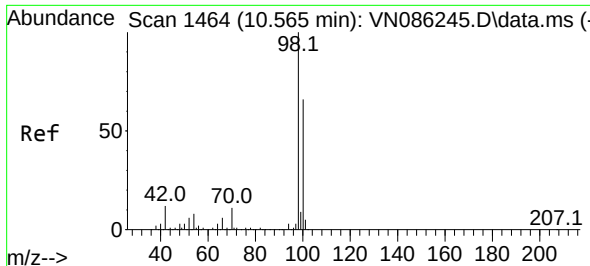
Ion Ratio Lower Upper

95 100

174 64.8 52.7 79.1

176 61.9 49.8 74.8

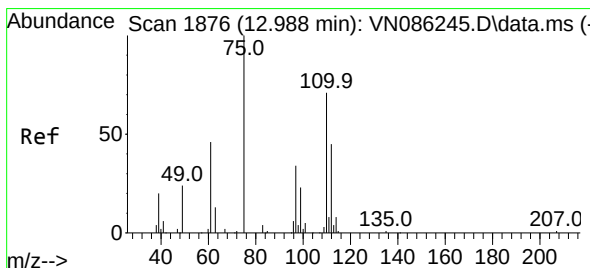
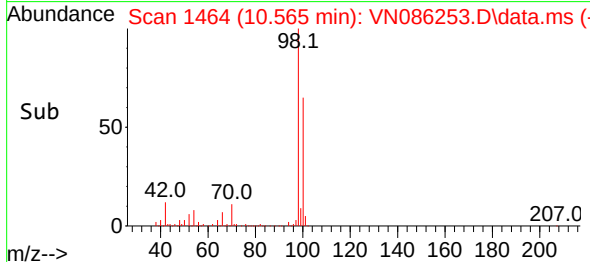
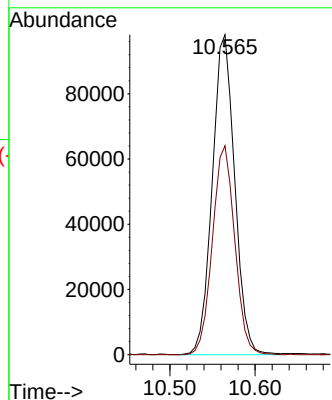
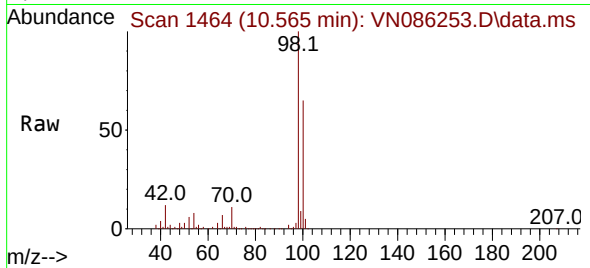




#63
Toluene-d8
Concen: 30.962 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

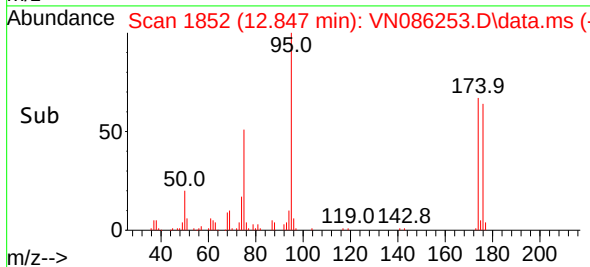
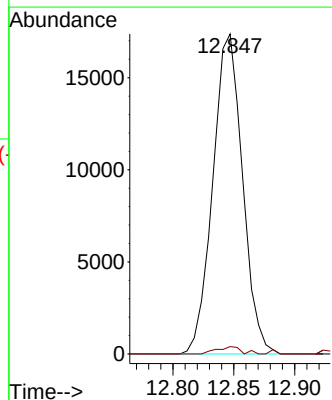
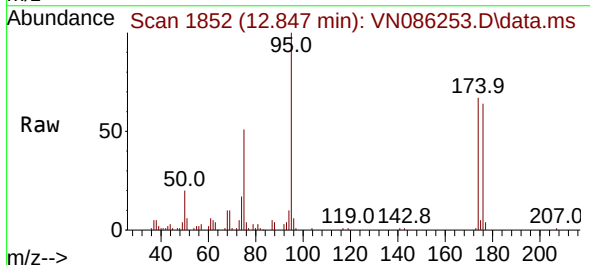
Instrument :
MSVOA_N
ClientSampleId :
TT-074-IDWGW-20250409

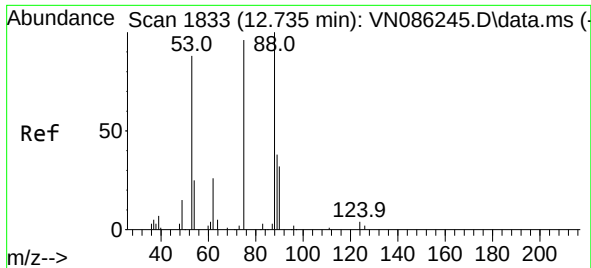
Tgt Ion: 98 Resp: 179971
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5



#72
1,2,3-Trichloropropane
Concen: 14.409 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086253.D
Acq: 11 Apr 2025 16:39

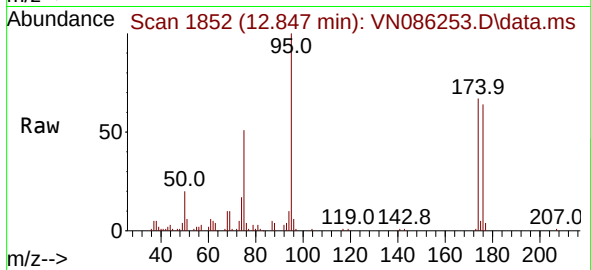
Tgt Ion: 75 Resp: 29485
Ion Ratio Lower Upper
75 100
77 1.7 0.0 380.0



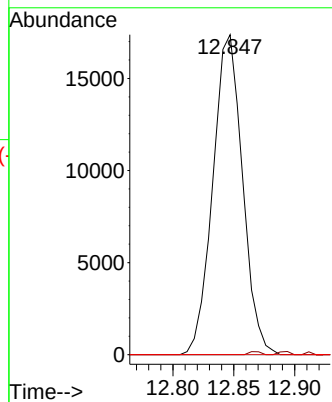
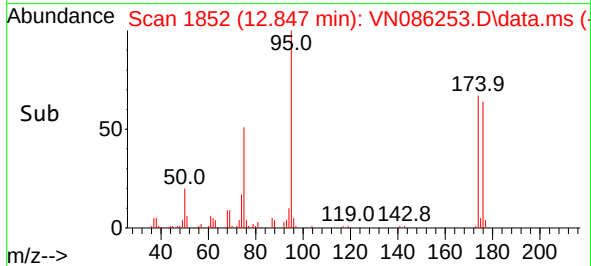


#77
 t-1,4-Dichloro-2-butene
 Concen: 31.250 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086253.D
 Acq: 11 Apr 2025 16:39

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-074-IDWGW-20250409



Tgt Ion: 75 Resp: 29485
 Ion Ratio Lower Upper
 75 100
 53 0.0 46.4 139.2#
 89 0.0 22.5 67.5#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086254.D
 Acq On : 11 Apr 2025 17:03
 Operator : JC\MD
 Sample : Q1774-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-075-IDWGW-20250409

Quant Time: Apr 12 01:51:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

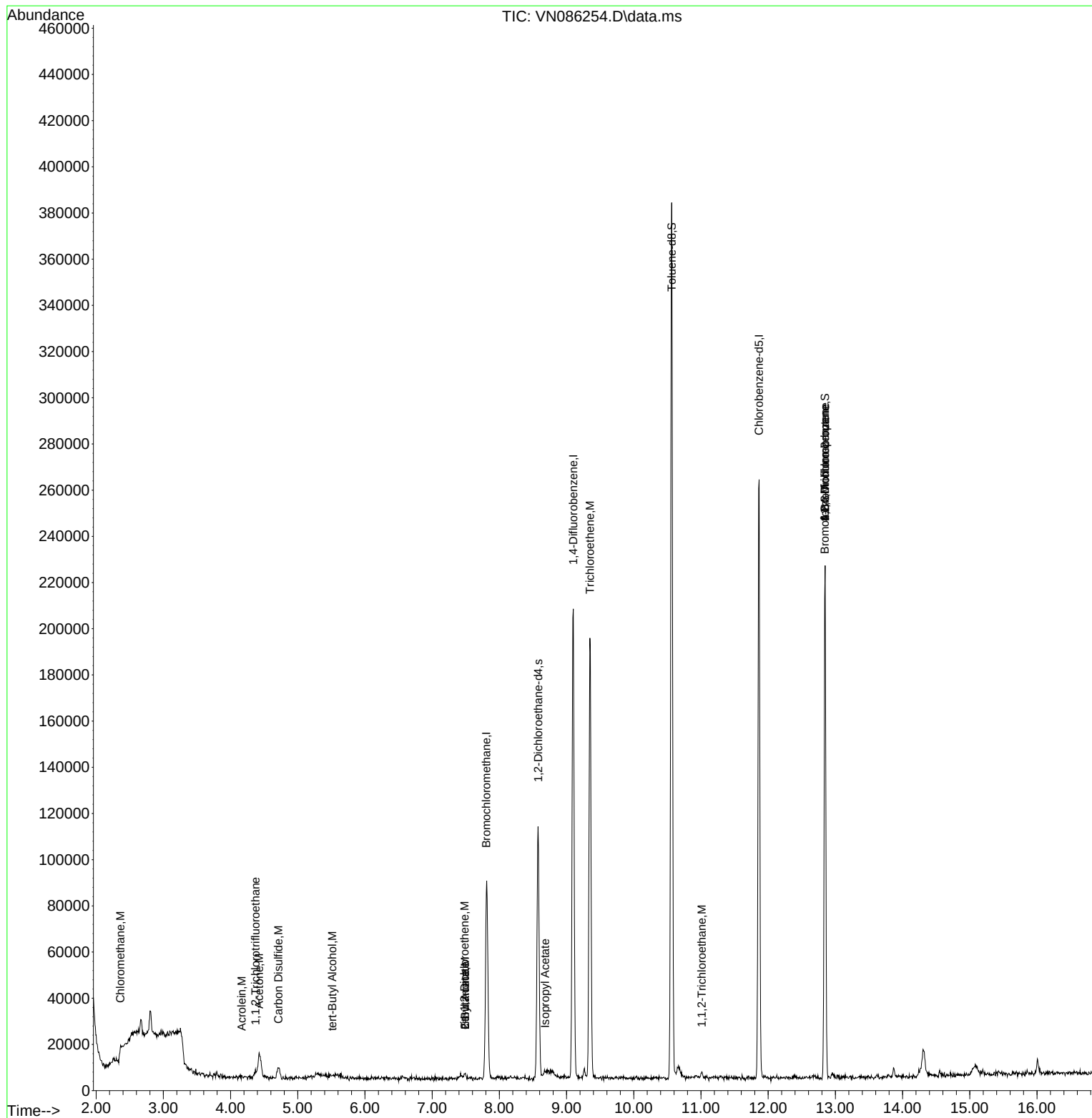
Internal Standards						
1) Bromochloromethane	7.806	128	29637	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	180090	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151244	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	87305	30.202	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.667%	
60) 4-Bromofluorobenzene	12.847	95	86127	28.602	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 95.333%	
63) Toluene-d8	10.565	98	268466	31.442	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.800%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1076	0.328	ug/l #	80
9) 1,1,2-Trichlorotrifluo...	4.371	101	1292	0.618	ug/l #	48
13) Acrolein	4.165	56	240	0.663	ug/l	91
15) Acetone	4.424	58	3507	10.281	ug/l	98
16) Carbon Disulfide	4.712	76	1356	0.210	ug/l #	74
22) cis-1,2-Dichloroethene	7.483	96	1164	0.411	ug/l #	73
23) tert-Butyl Alcohol	5.512	59	120	0.215	ug/l #	100
30) 2-Butanone	7.488	43	1384	0.774	ug/l #	56
37) Trichloroethene	9.347	130	69371	28.013	ug/l	92
43) Ethyl Acetate	7.488	43	1353	0.375	ug/l	94
44) Isopropyl Acetate	8.682	43	2269	0.339	ug/l #	49
50) 1,1,2-Trichloroethane	11.012	97	1273	0.550	ug/l #	83
56) Bromoform	12.841	173	334	0.202	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	42740	14.219	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	42740	30.837	ug/l #	13

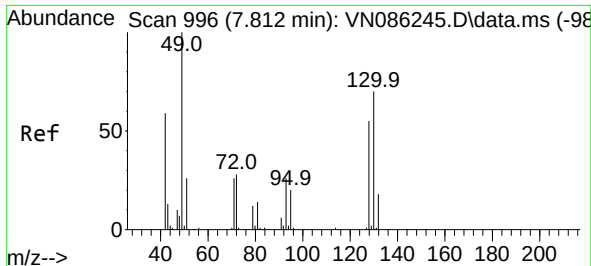
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086254.D
Acq On : 11 Apr 2025 17:03
Operator : JC\MD
Sample : Q1774-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

Quant Time: Apr 12 01:51:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

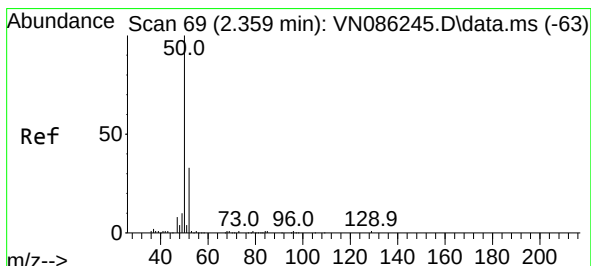
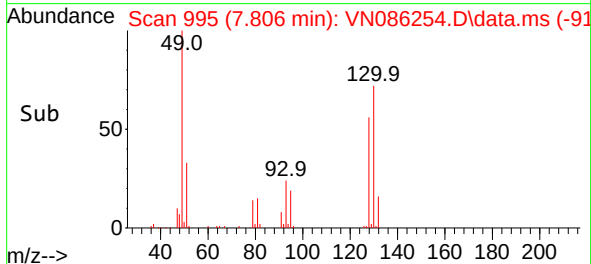
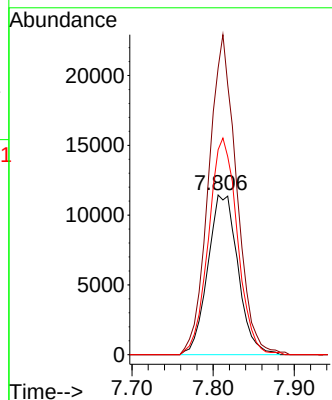
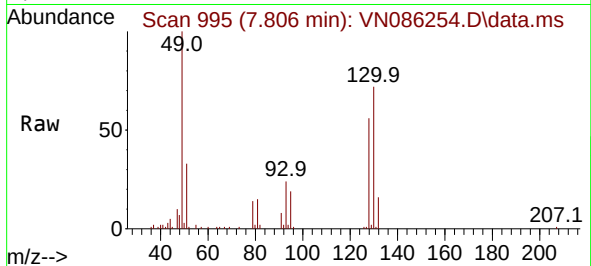




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

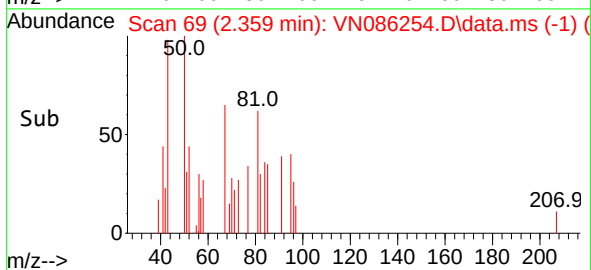
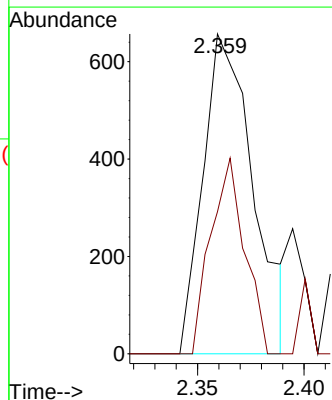
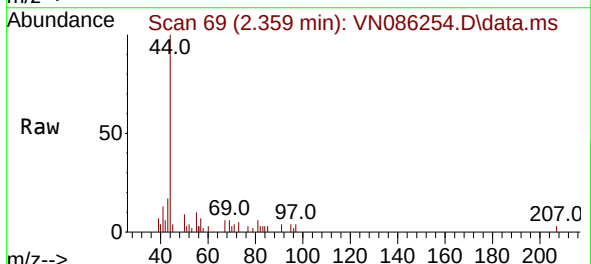
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

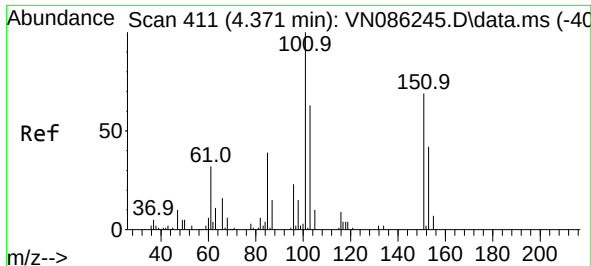
Tgt Ion:128 Resp: 29637
Ion Ratio Lower Upper
128 100
49 185.0 0.0 452.5
130 129.5 0.0 315.0



#3
Chloromethane
Concen: 0.328 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion: 50 Resp: 1076
Ion Ratio Lower Upper
50 100
52 44.4 26.4 39.6#

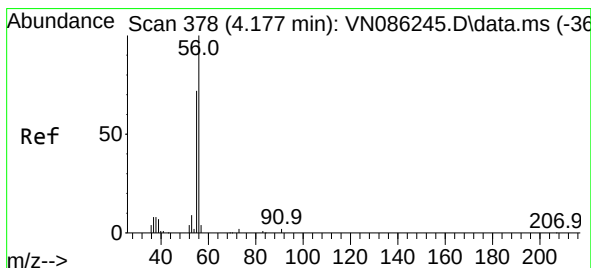
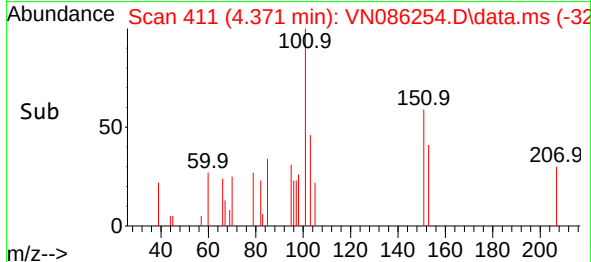
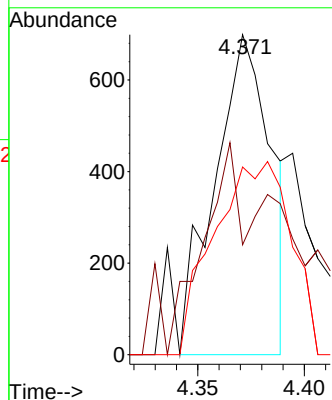
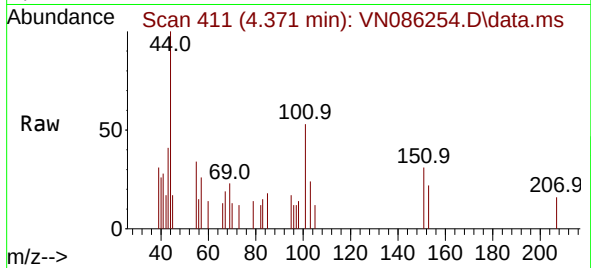




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.618 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

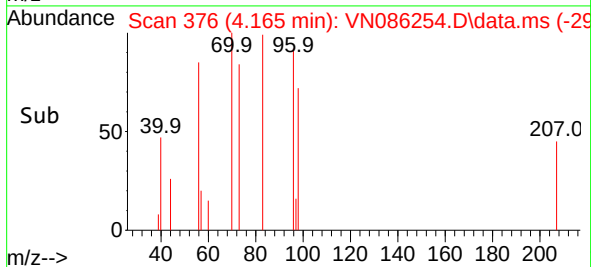
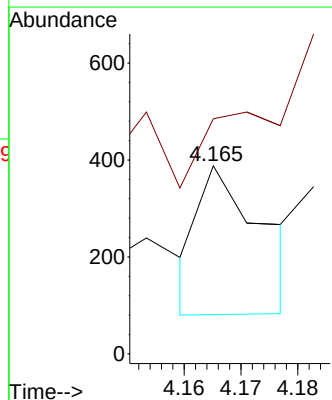
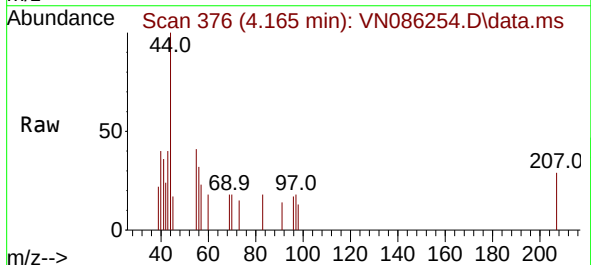
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

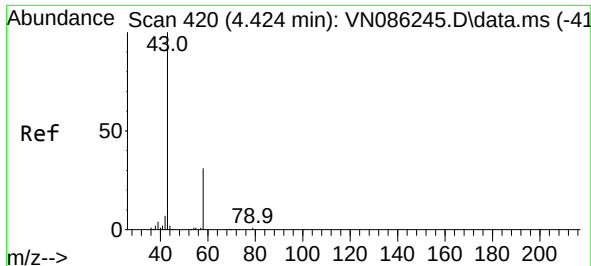
Tgt Ion:101 Resp: 1292
Ion Ratio Lower Upper
101 100
85 44.0 0.0 93.0
151 0.0 0.0 138.6



#13
Acrolein
Concen: 0.663 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 62.9 56.5 84.7





#15

Acetone

Concen: 10.281 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086254.D

Acq: 11 Apr 2025 17:03

Instrument :

MSVOA_N

ClientSampleId :

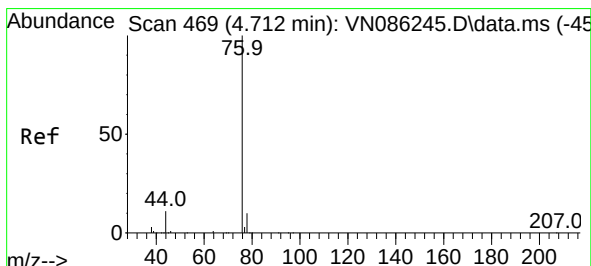
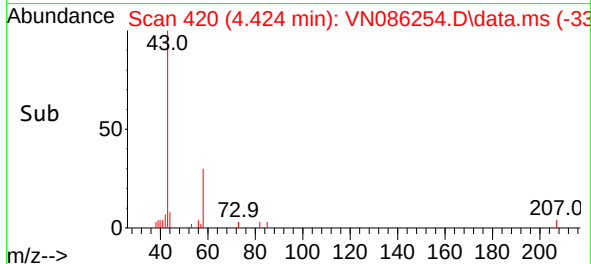
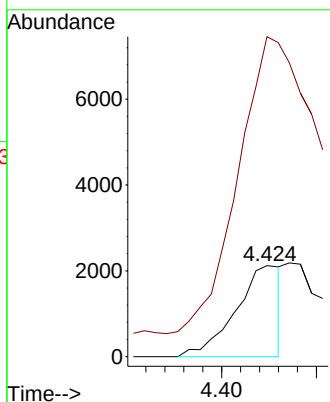
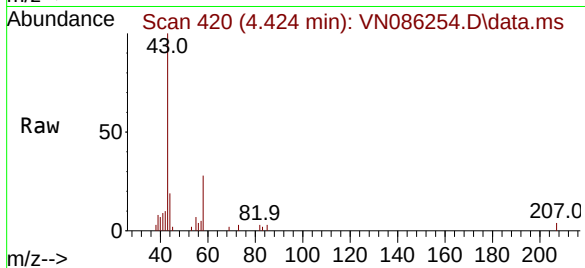
TT-075-IDWGW-20250409

Tgt Ion: 58 Resp: 3507

Ion Ratio Lower Upper

58 100

43 323.7 261.8 392.8



#16

Carbon Disulfide

Concen: 0.210 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086254.D

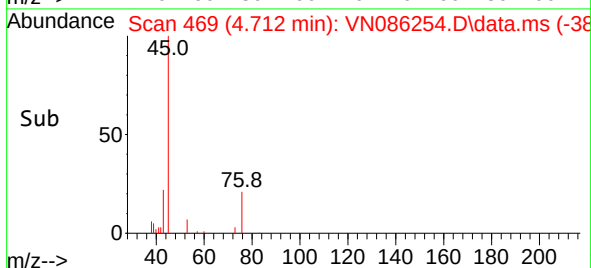
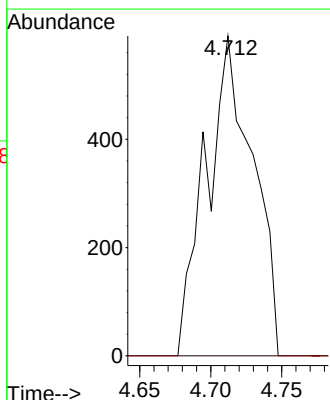
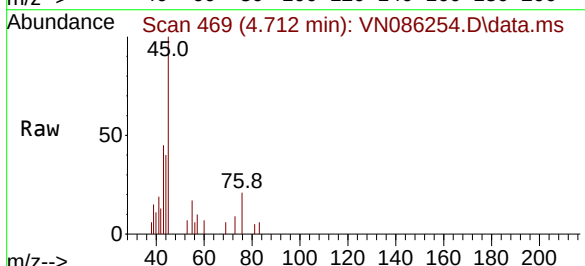
Acq: 11 Apr 2025 17:03

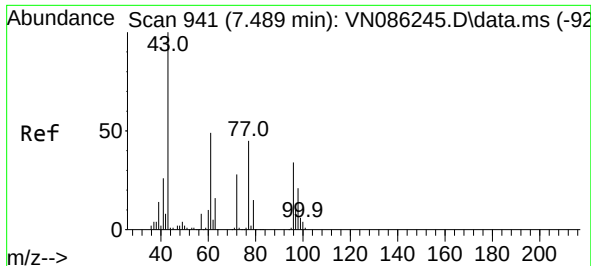
Tgt Ion: 76 Resp: 1356

Ion Ratio Lower Upper

76 100

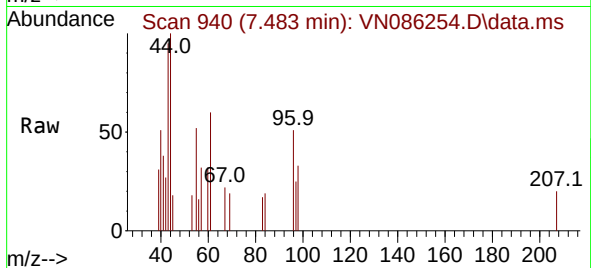
78 0.0 7.7 11.5#



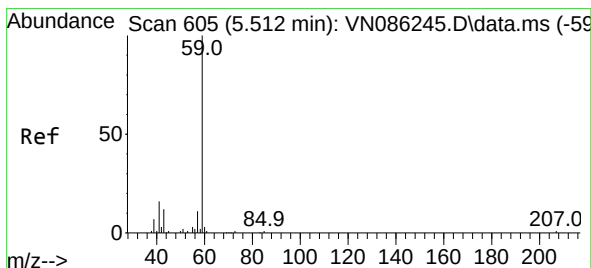
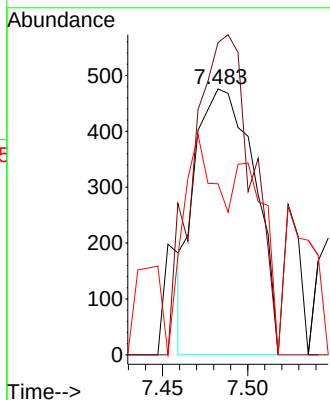
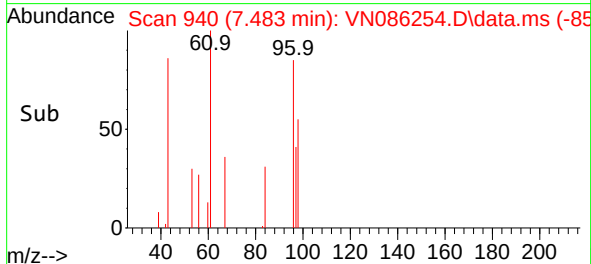


#22
cis-1,2-Dichloroethene
Concen: 0.411 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

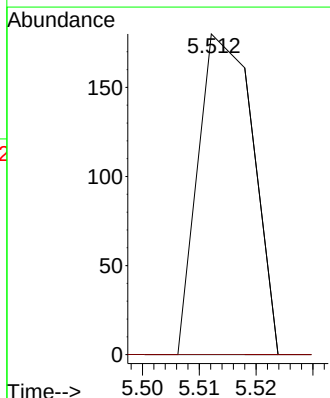
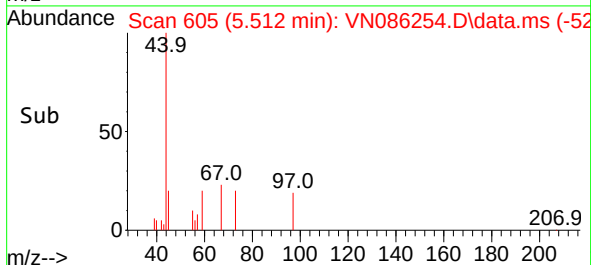
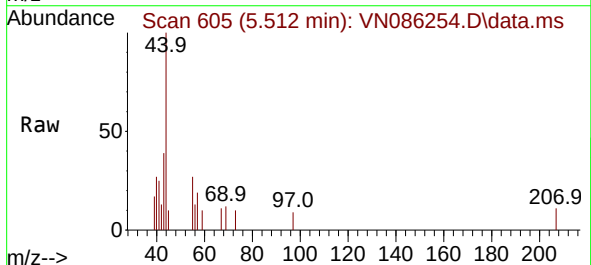


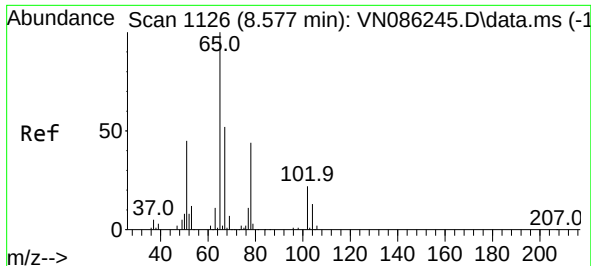
Tgt Ion: 96 Resp: 1164
Ion Ratio Lower Upper
96 100
61 118.6 119.5 179.3#
98 37.1 51.0 76.6#



#23
tert-Butyl Alcohol
Concen: 0.215 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion: 59 Resp: 120
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 30.202 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086254.D

Acq: 11 Apr 2025 17:03

Instrument :

MSVOA_N

ClientSampleId :

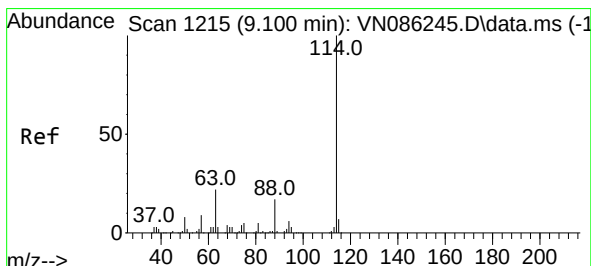
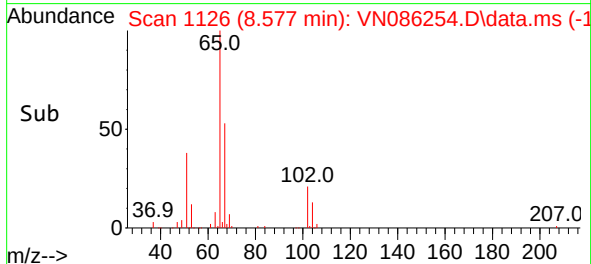
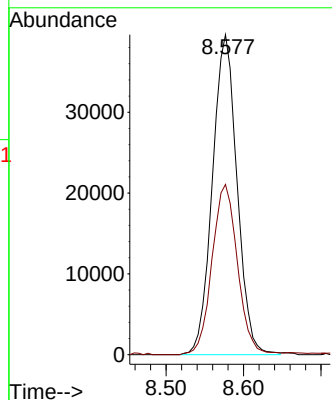
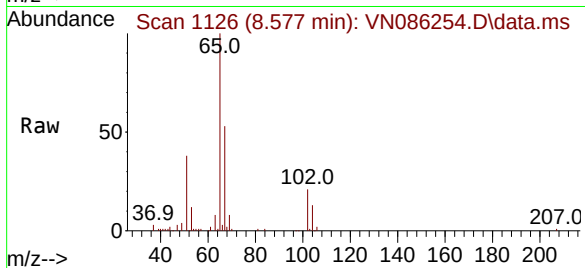
TT-075-IDWGW-20250409

Tgt Ion: 65 Resp: 87305

Ion Ratio Lower Upper

65 100

67 55.2 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086254.D

Acq: 11 Apr 2025 17:03

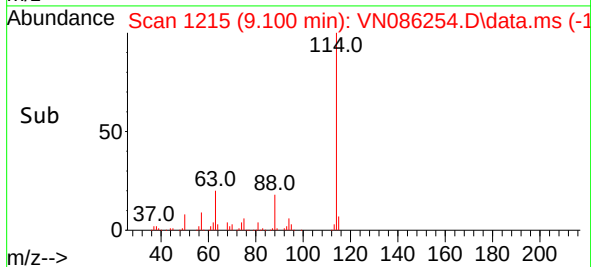
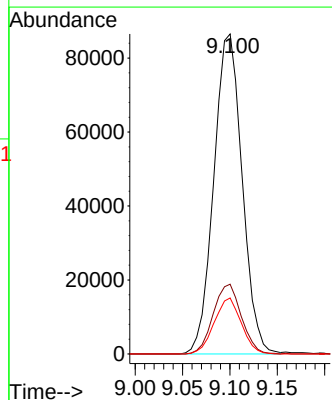
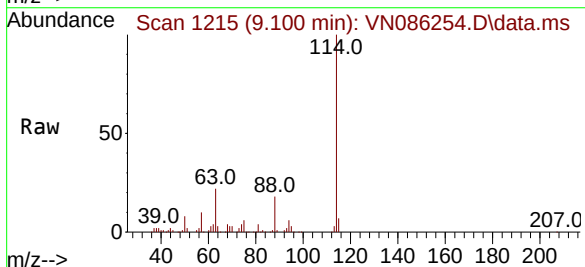
Tgt Ion: 114 Resp: 180090

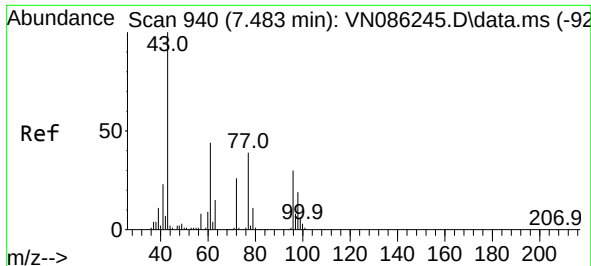
Ion Ratio Lower Upper

114 100

63 21.6 17.8 26.6

88 16.7 13.4 20.2

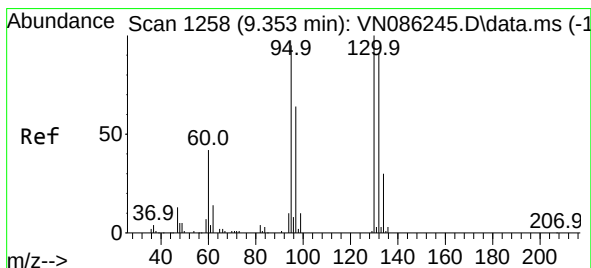
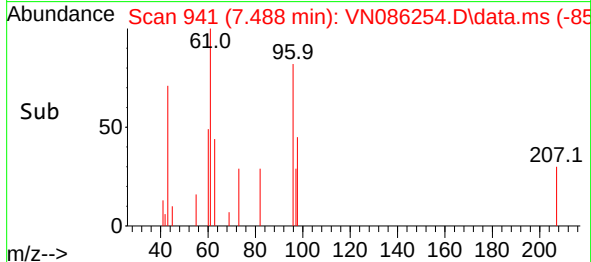
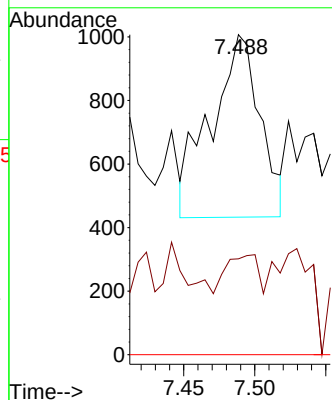
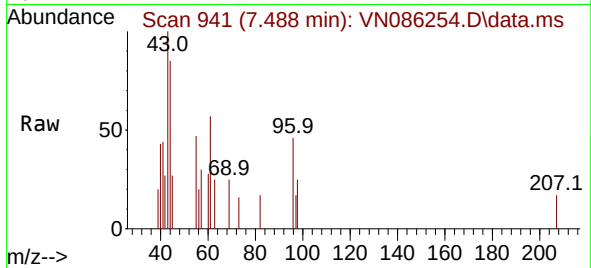




#30
2-Butanone
Concen: 0.774 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

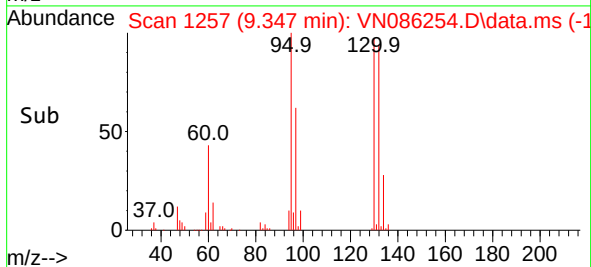
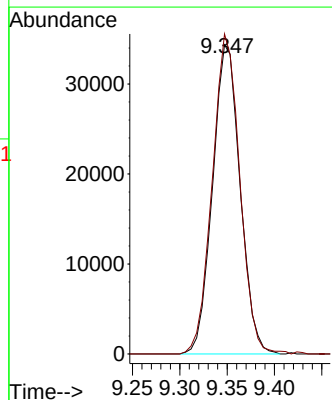
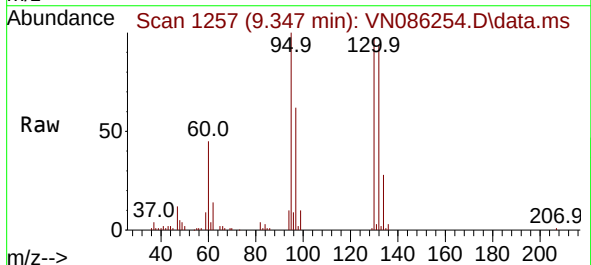
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

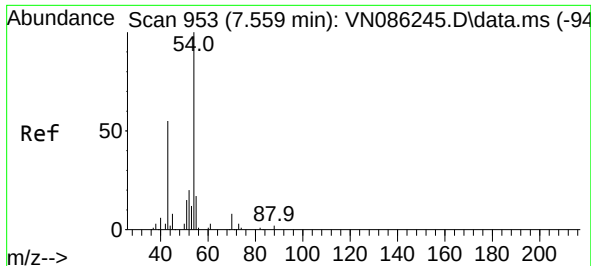
Tgt Ion: 43 Resp: 1384
Ion Ratio Lower Upper
43 100
57 13.3 6.4 9.6#
72 0.0 21.5 32.3#



#37
Trichloroethene
Concen: 28.013 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion:130 Resp: 69371
Ion Ratio Lower Upper
130 100
95 103.5 76.4 114.6

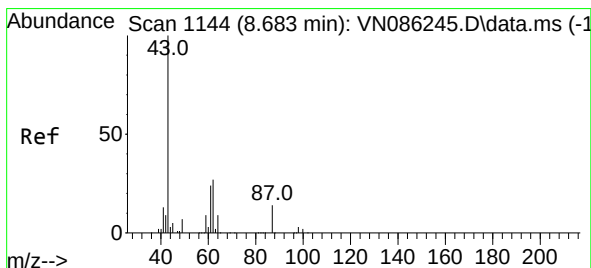
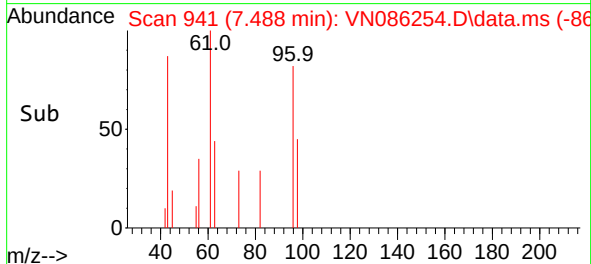
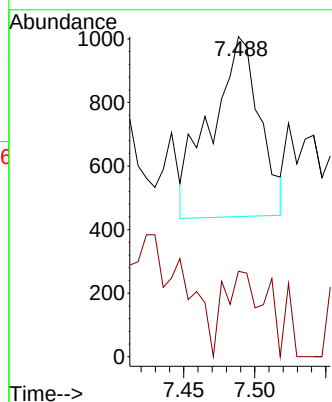
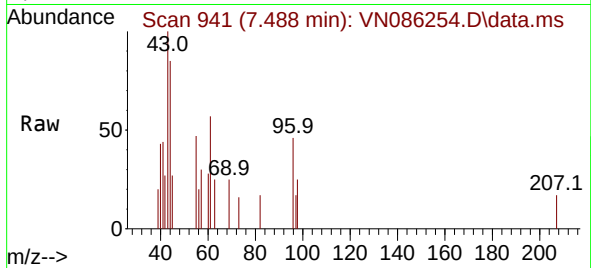




#43
Ethyl Acetate
Concen: 0.375 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.071 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

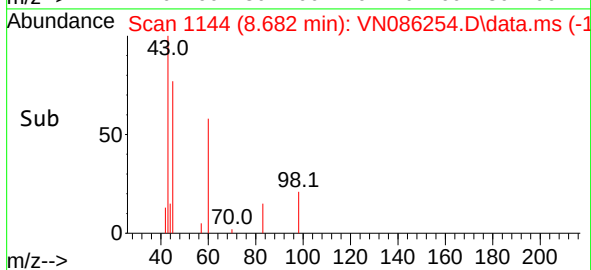
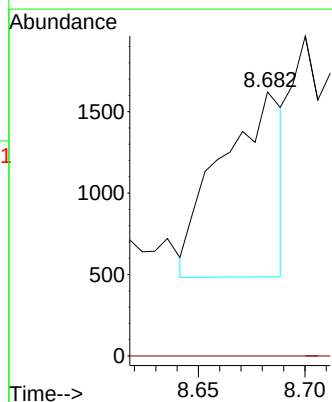
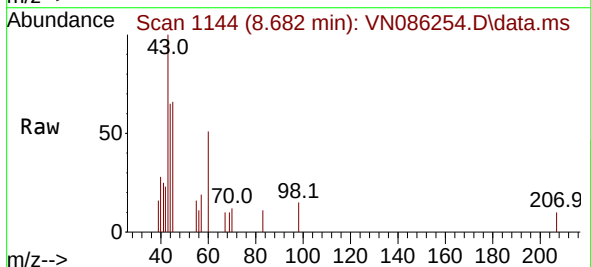
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

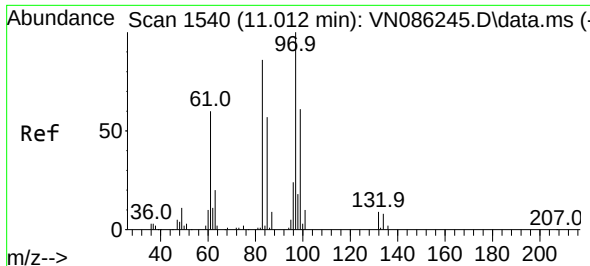
Tgt Ion: 43 Resp: 1353
Ion Ratio Lower Upper
43 100
45 11.7 11.2 16.8



#44
Isopropyl Acetate
Concen: 0.339 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

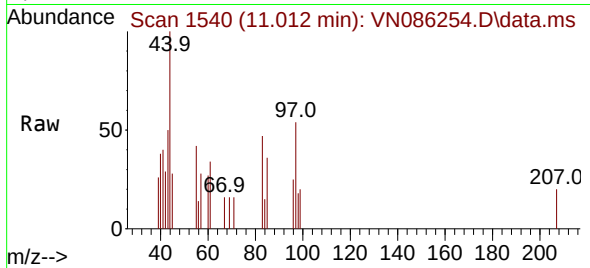
Tgt Ion: 43 Resp: 2269
Ion Ratio Lower Upper
43 100
61 0.0 20.5 30.7#



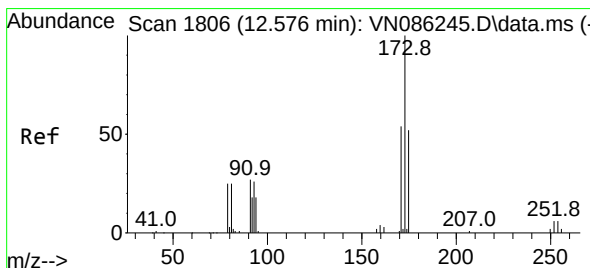
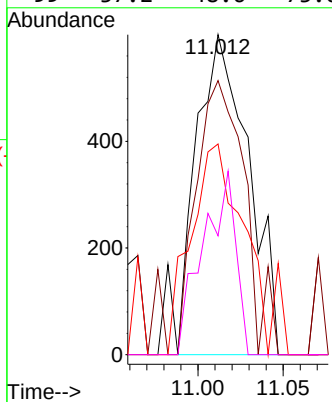
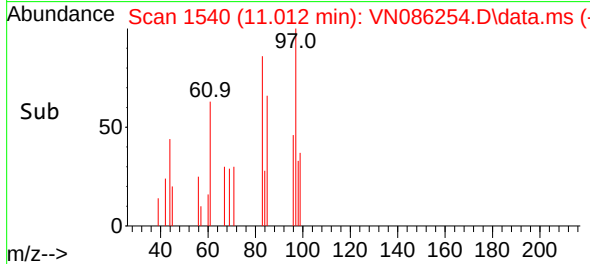


#50
1,1,2-Trichloroethane
Concen: 0.550 ug/l
RT: 11.012 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

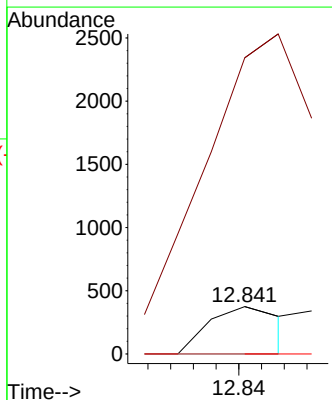
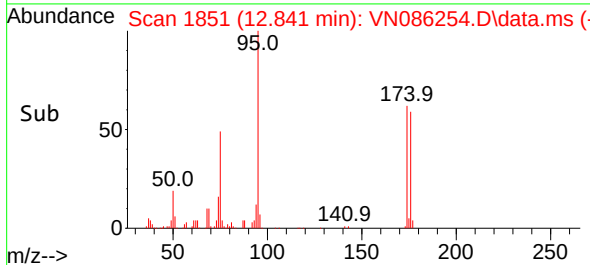
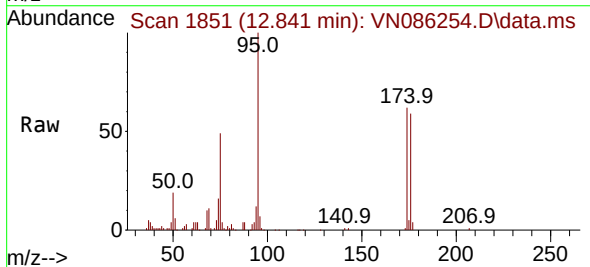


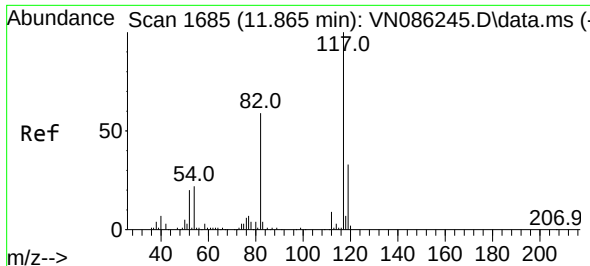
Tgt Ion:	97	Resp:	1273
Ion	Ratio	Lower	Upper
97	100		
83	85.7	68.6	103.0
85	37.3	45.9	68.9#
99	37.2	48.6	73.0#



#56
Bromoform
Concen: 0.202 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion:	173	Resp:	334
Ion	Ratio	Lower	Upper
173	100		
175	1224.3	38.2	57.4#
254	0.0	4.5	6.7#

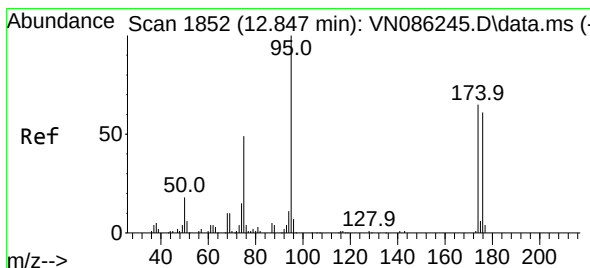
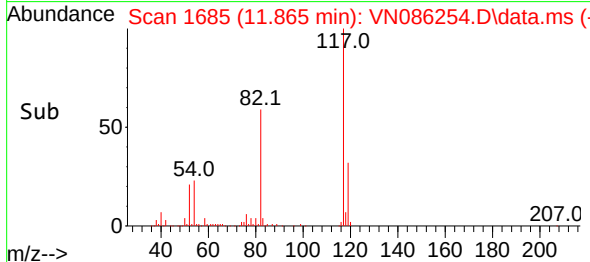
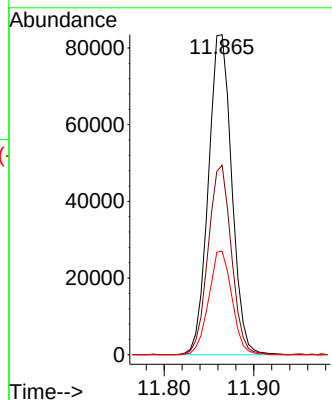
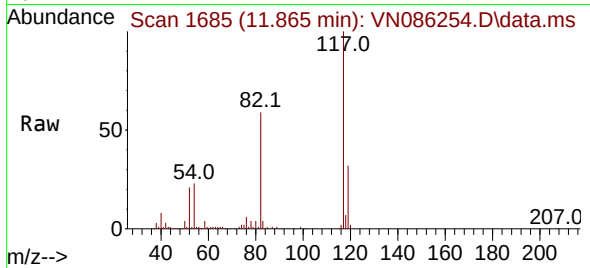




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

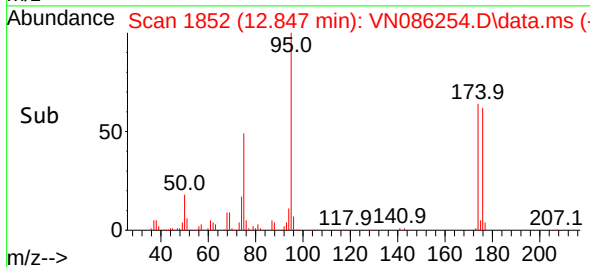
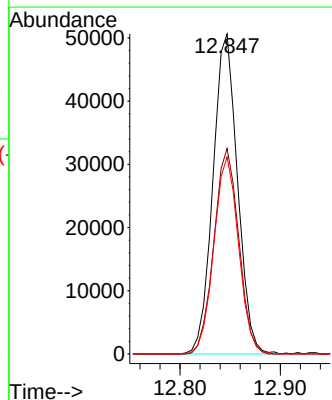
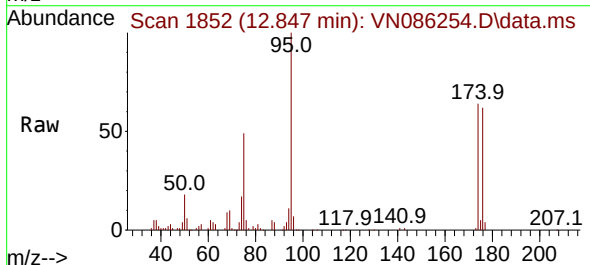
Instrument :
MSVOA_N
ClientSampleId :
TT-075-IDWGW-20250409

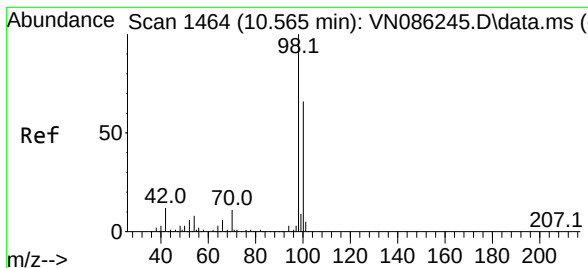
Tgt Ion:117 Resp: 151244
Ion Ratio Lower Upper
117 100
82 59.0 47.3 70.9
119 32.2 25.9 38.9



#60
4-Bromofluorobenzene
Concen: 28.602 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086254.D
Acq: 11 Apr 2025 17:03

Tgt Ion: 95 Resp: 86127
Ion Ratio Lower Upper
95 100
174 64.8 52.7 79.1
176 61.8 49.8 74.8





#63

Toluene-d8

Concen: 31.442 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086254.D

Acq: 11 Apr 2025 17:03

Instrument :

MSVOA_N

ClientSampleId :

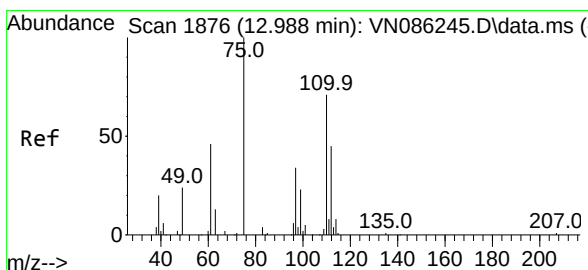
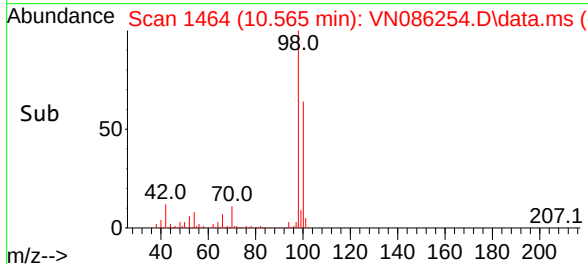
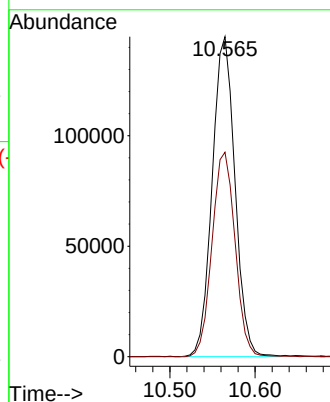
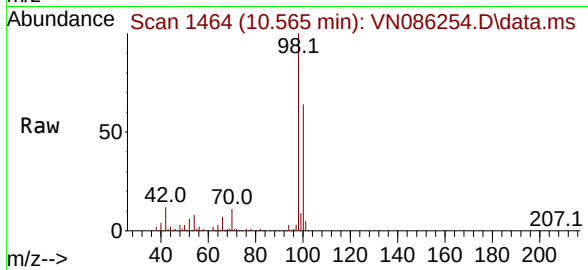
TT-075-IDWGW-20250409

Tgt Ion: 98 Resp: 268466

Ion Ratio Lower Upper

98 100

100 64.7 52.3 78.5



#72

1,2,3-Trichloropropane

Concen: 14.219 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086254.D

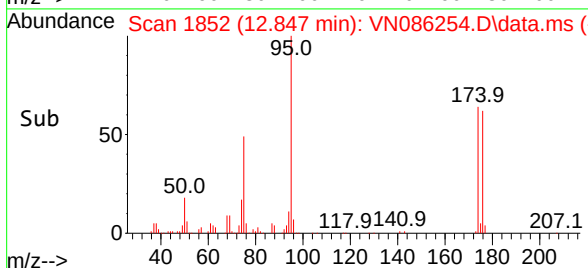
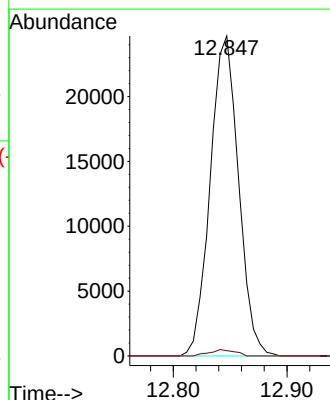
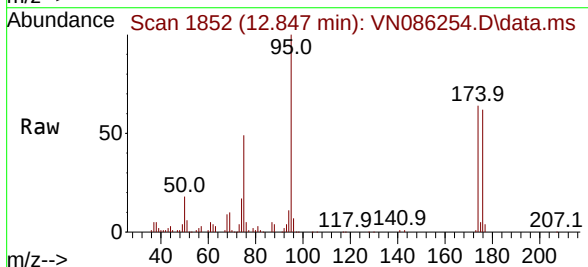
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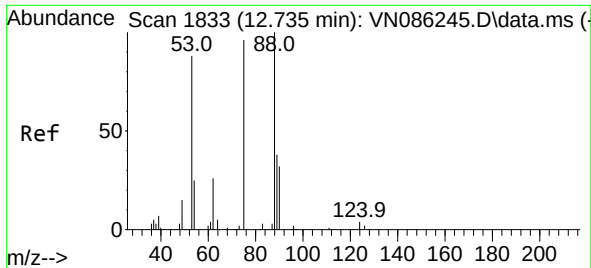
Tgt Ion: 75 Resp: 42740

Ion Ratio Lower Upper

75 100

77 1.8 0.0 380.0





#77

t-1,4-Dichloro-2-butene

Concen: 30.837 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN086254.D

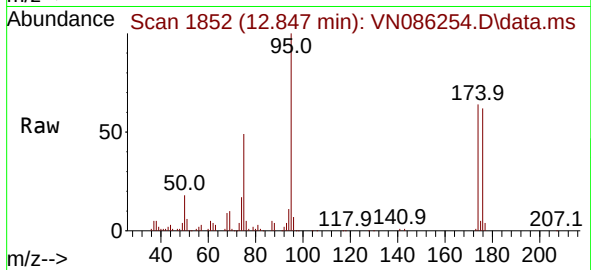
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Instrument :

MSVOA_N

ClientSampleId :

TT-075-IDWGW-20250409



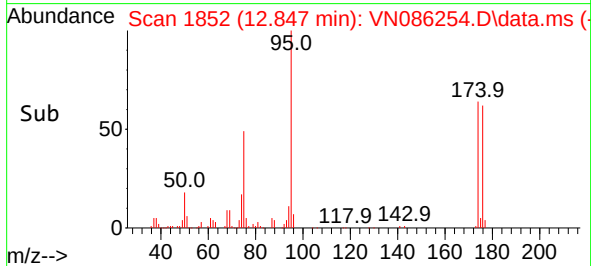
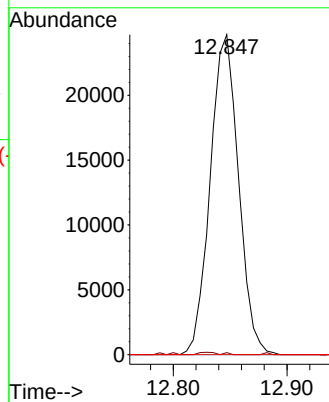
Tgt Ion: 75 Resp: 42740

Ion Ratio Lower Upper

75 100

53 0.6 46.4 139.2#

89 0.0 22.5 67.5#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	18884	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	109876	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	95362	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	53571	29.085	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.933%		
60) 4-Bromofluorobenzene	12.847	95	56553	29.786	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.300%		
63) Toluene-d8	10.565	98	165558	30.752	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.500%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	29320	19.378	ug/l	99
3) Chloromethane	2.359	50	41417	19.805	ug/l	95
4) Vinyl Chloride	2.518	62	38937	19.548	ug/l	99
5) Bromomethane	2.971	94	19187	19.311	ug/l	99
6) Chloroethane	3.130	64	25042	19.909	ug/l	99
7) Trichlorofluoromethane	3.501	101	41794	19.342	ug/l	98
8) Diethyl Ether	3.965	74	18888	18.955	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	24936	18.715	ug/l	96
10) 1,1-Dichloroethene	4.348	96	26966	18.753	ug/l	98
11) Methyl Iodide	4.583	142	31641	19.145	ug/l	94
12) Methyl Acetate	5.030	43	37430	18.433	ug/l	97
13) Acrolein	4.183	56	19090	82.706	ug/l	97
14) Acrylonitrile	5.718	53	80784	94.238	ug/l	99
15) Acetone	4.424	58	19847	91.311	ug/l	90
16) Carbon Disulfide	4.718	76	78952	19.148	ug/l	97
17) Allyl chloride	5.030	41	49113	19.596	ug/l	95
18) Methylene Chloride	5.277	84	31167	19.010	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	28540	18.843	ug/l	99
20) Diisopropyl ether	6.671	45	95774	17.775	ug/l	97
21) 1,1-Dichloroethane	6.571	63	55465	19.295	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	34384	19.057	ug/l	99
23) tert-Butyl Alcohol	5.512	59	31875	89.739	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	97437	18.777	ug/l	98
25) Chloroform	7.965	83	53242	19.423	ug/l	93
26) Cyclohexane	8.253	56	50381	18.733	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	39298	19.965	ug/l	99
30) 2-Butanone	7.477	43	105674	96.889	ug/l	99
31) 2,2-Dichloropropane	7.489	77	46144	19.045	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	44888	19.825	ug/l	99
33) Carbon Tetrachloride	8.359	117	35183	19.444	ug/l	96
34) Benzene	8.600	78	124673	19.909	ug/l	97
35) Methacrylonitrile	7.777	41	25486	20.728	ug/l	98
36) 1,2-Dichloroethane	8.671	62	38614	19.705	ug/l	97
37) Trichloroethene	9.347	130	28562	18.904	ug/l	95
38) Methylcyclohexane	9.594	83	45627	18.901	ug/l	99
39) 1,2-Dichloropropane	9.618	63	30685	19.693	ug/l	94
40) Dibromomethane	9.706	93	20002	19.875	ug/l	100
41) Bromodichloromethane	9.888	83	42242	19.539	ug/l	100
42) Vinyl Acetate	6.600	43	378299	101.896	ug/l	100

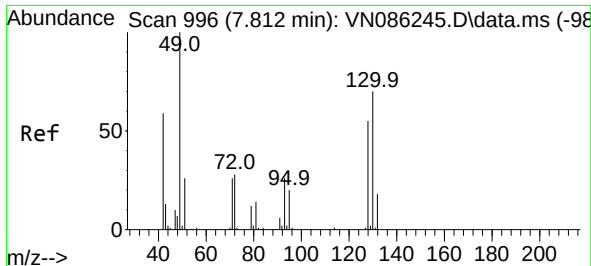
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 Data File : VN086255.D
 Acq On : 11 Apr 2025 17:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Apr 12 01:51:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	37557	17.072	ug/l #	93
44) Isopropyl Acetate	8.683	43	79656	19.518	ug/l	100
45) 1,4-Dioxane	9.694	88	12723	392.047	ug/l #	93
46) Methyl methacrylate	9.677	41	34286	19.067	ug/l	98
47) n-amyl Acetate	12.488	43	57635	17.812	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	46804	19.149	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	51256	19.814	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	27268	19.319	ug/l	97
51) Ethyl methacrylate	10.871	69	49228	18.768	ug/l	95
52) 1,3-Dichloropropane	11.159	76	49662	19.740	ug/l	99
53) Dibromochloromethane	11.353	129	29962	19.406	ug/l	99
54) 1,2-Dibromoethane	11.465	107	27931	19.603	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	98312	99.189	ug/l	99
56) Bromoform	12.576	173	18754	18.566	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	214641	99.184	ug/l	99
59) 2-Hexanone	11.194	43	158086	98.104	ug/l	99
61) Tetrachloroethene	11.100	164	27738	19.697	ug/l	98
62) Toluene	10.624	91	128682	20.118	ug/l	100
64) Chlorobenzene	11.888	112	77123	19.736	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	26021	20.177	ug/l	98
66) Ethyl Benzene	11.959	91	139309	19.639	ug/l	98
67) m/p-Xylenes	12.071	106	101714	38.563	ug/l	98
68) o-Xylene	12.394	106	52037	20.058	ug/l	98
69) Styrene	12.406	104	83949	19.187	ug/l	99
70) Isopropylbenzene	12.694	105	123201	19.260	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	37233	20.449	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	53607	28.285	ug/l	59
73) Bromobenzene	12.976	156	27272	19.245	ug/l	99
74) n-propylbenzene	13.029	91	143093	18.944	ug/l	100
75) 2-Chlorotoluene	13.123	91	92645	19.514	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	99973	19.025	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	16490	18.869	ug/l	92
78) 4-Chlorotoluene	13.218	91	90011	18.983	ug/l	98
79) tert-butylbenzene	13.435	119	86567	19.039	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	100765	18.911	ug/l	100
81) sec-Butylbenzene	13.612	105	119744	18.880	ug/l	99
82) p-Isopropyltoluene	13.729	119	97324	18.394	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	48725	18.499	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	47819	18.098	ug/l	98
85) n-Butylbenzene	14.053	91	84791	17.764	ug/l	98
86) Hexachloroethane	14.329	117	17164	19.231	ug/l	96
87) 1,2-Dichlorobenzene	14.100	146	48868	18.791	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	7385	17.808	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	21063	16.646	ug/l	98
90) Hexachlorobutadiene	15.494	225	8007	14.656	ug/l	96
91) Naphthalene	15.635	128	83203	16.677	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	21063	16.646	ug/l	98

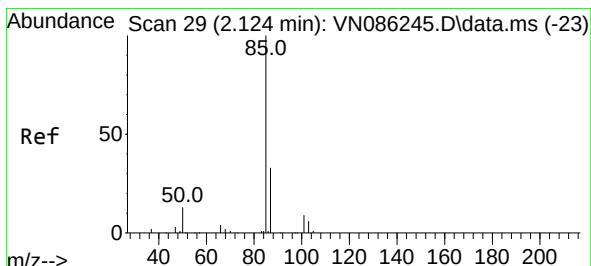
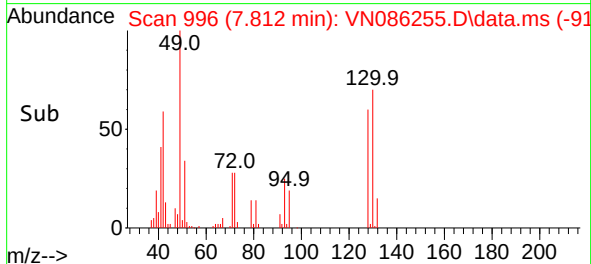
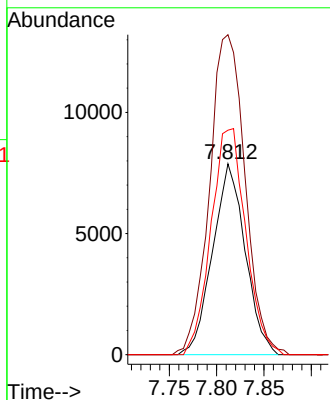
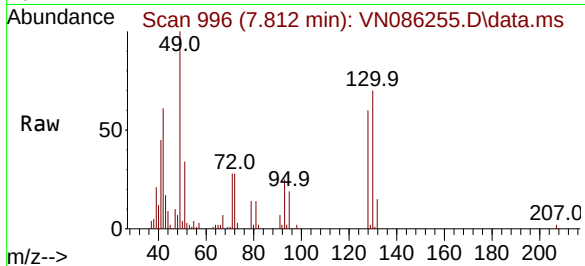
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

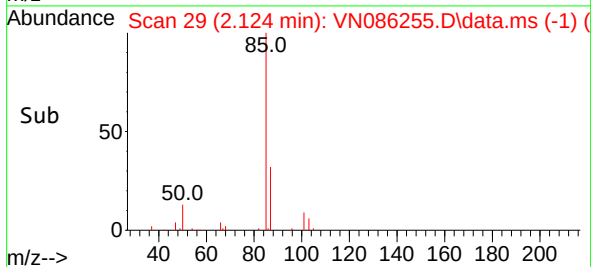
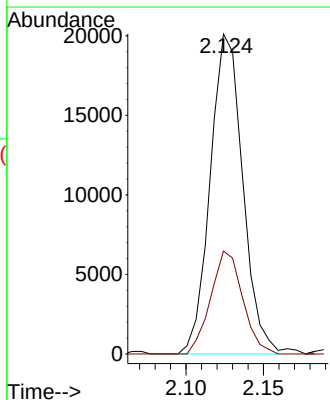
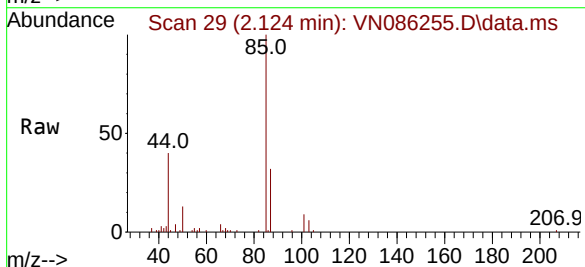
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

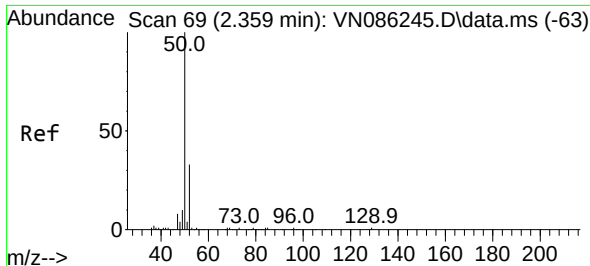
Tgt Ion:128 Resp: 18884
Ion Ratio Lower Upper
128 100
49 182.5 0.0 452.5
130 126.4 0.0 315.0



#2
Dichlorodifluoromethane
Concen: 19.378 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 85 Resp: 29320
Ion Ratio Lower Upper
85 100
87 32.1 16.3 48.9

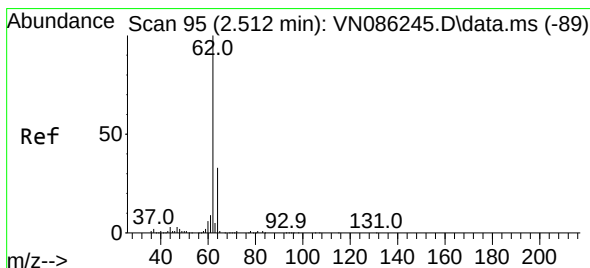
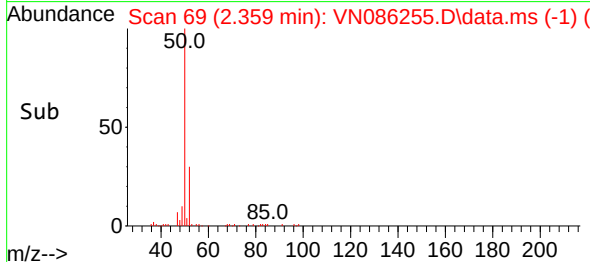
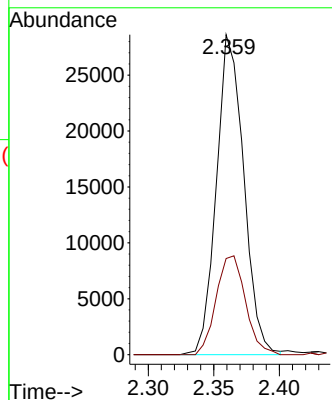
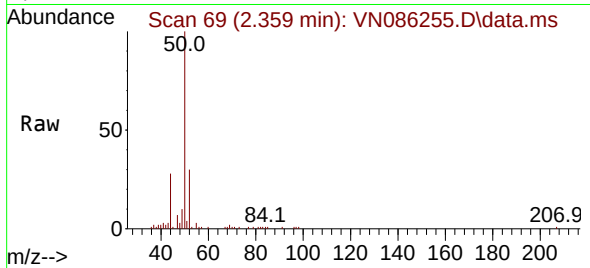




#3
Chloromethane
Concen: 19.805 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

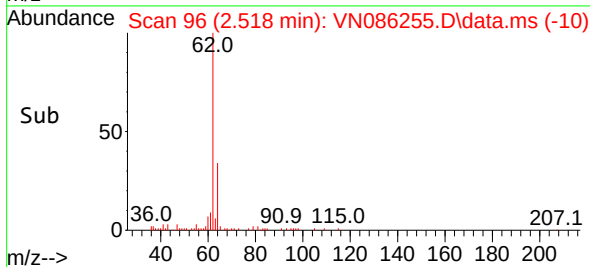
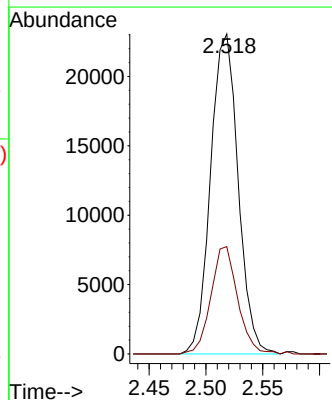
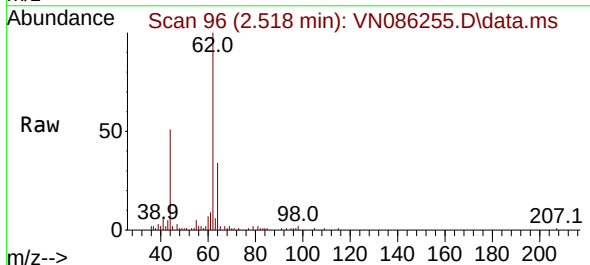
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

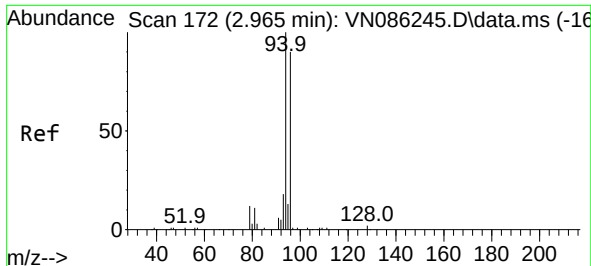
Tgt Ion: 50 Resp: 41417
Ion Ratio Lower Upper
50 100
52 30.1 26.4 39.6



#4
Vinyl Chloride
Concen: 19.548 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 62 Resp: 38937
Ion Ratio Lower Upper
62 100
64 33.6 26.3 39.5

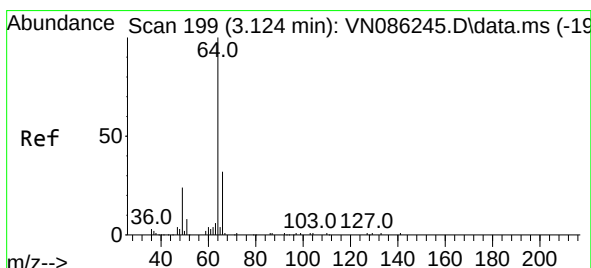
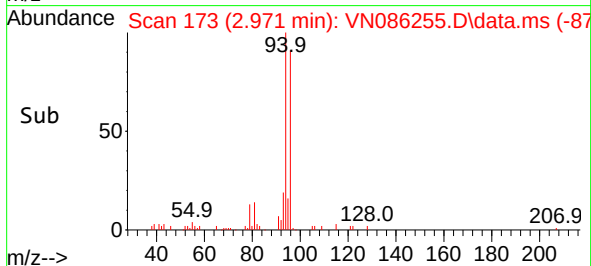
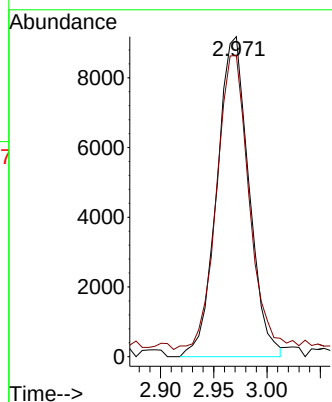
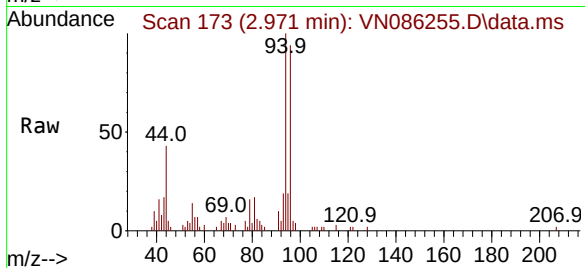




#5
Bromomethane
Concen: 19.311 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

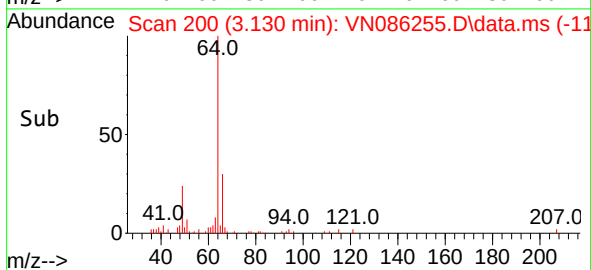
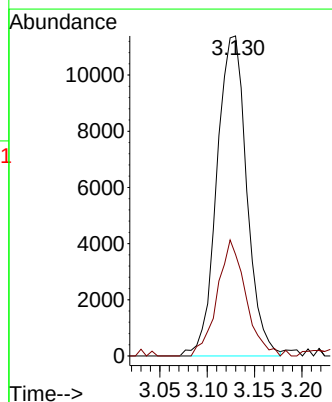
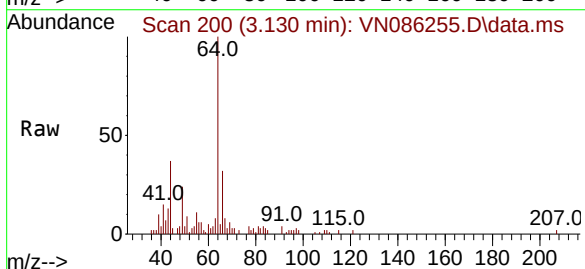
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

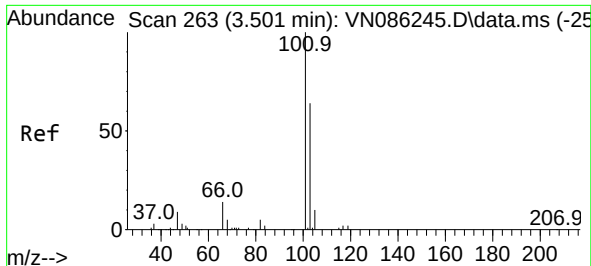
Tgt Ion: 94 Resp: 19187
Ion Ratio Lower Upper
94 100
96 90.8 72.2 108.2



#6
Chloroethane
Concen: 19.909 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 64 Resp: 25042
Ion Ratio Lower Upper
64 100
66 31.7 25.7 38.5

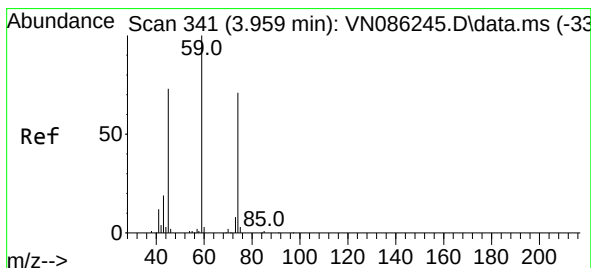
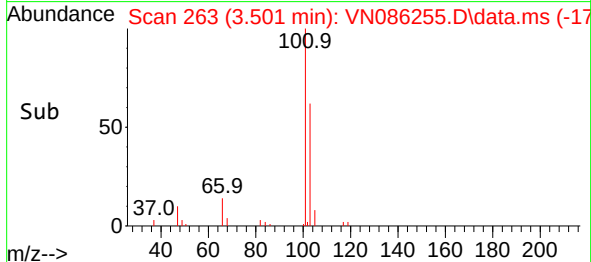
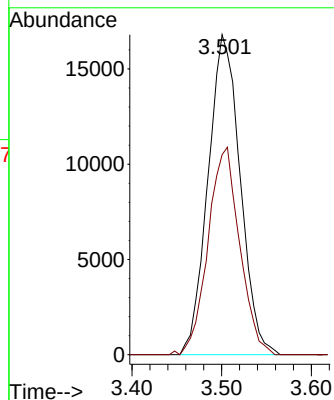
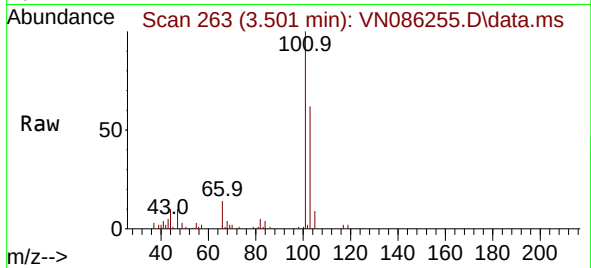




#7
 Trichlorofluoromethane
 Concen: 19.342 ug/l
 RT: 3.501 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

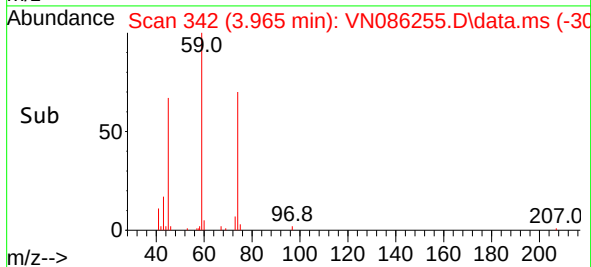
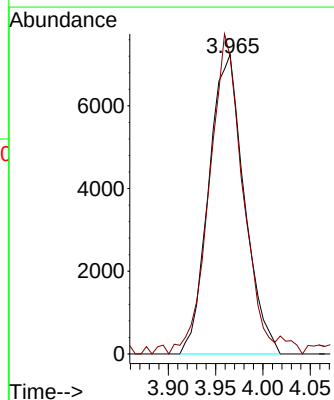
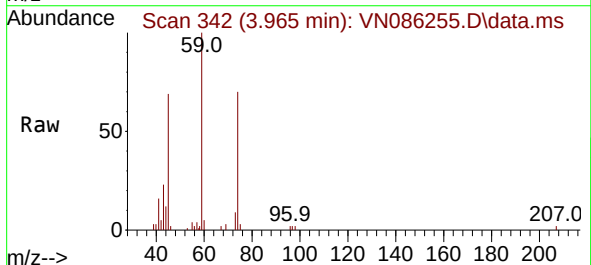
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

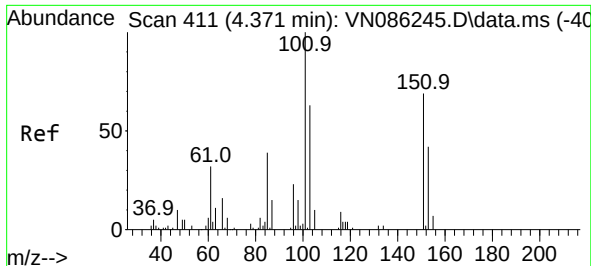
Tgt Ion:101 Resp: 41794
 Ion Ratio Lower Upper
 101 100
 103 62.5 51.2 76.8



#8
 Diethyl Ether
 Concen: 18.955 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.006 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

Tgt Ion: 74 Resp: 18888
 Ion Ratio Lower Upper
 74 100
 45 99.8 19.2 173.2

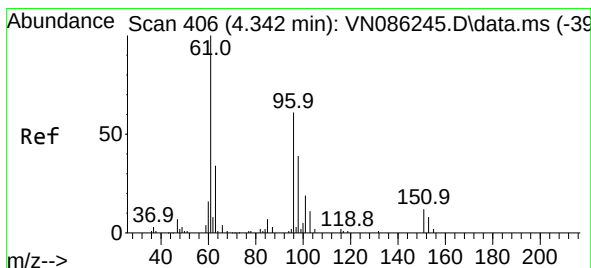
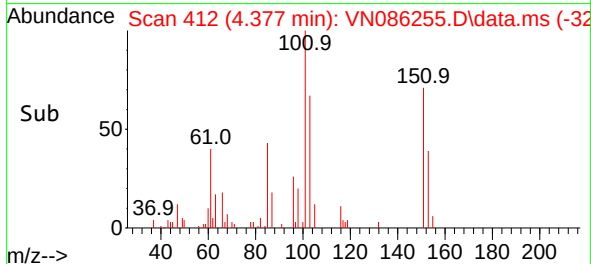
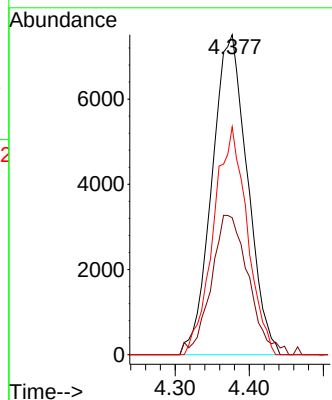
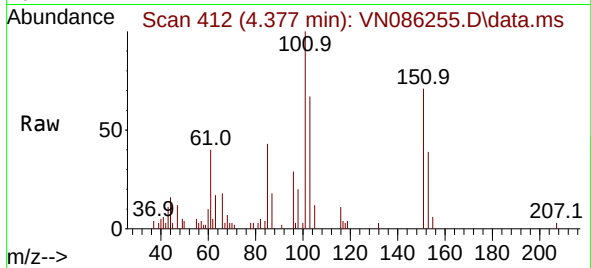




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.715 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

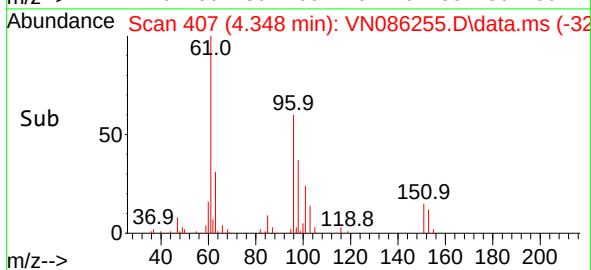
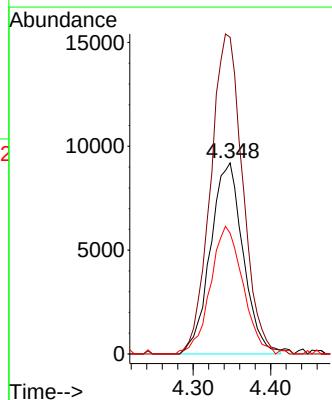
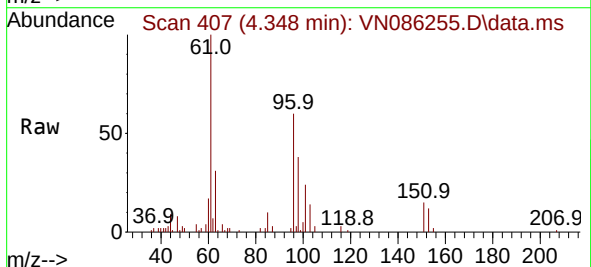
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

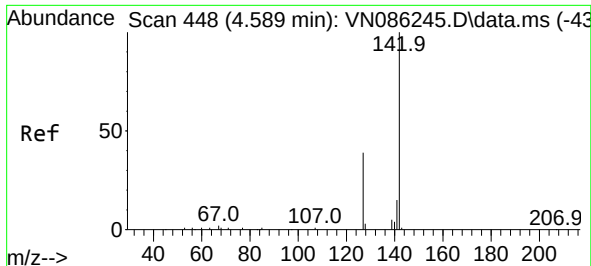
Tgt Ion:101 Resp: 24936
Ion Ratio Lower Upper
101 100
85 41.9 0.0 93.0
151 67.7 0.0 138.6



#10
1,1-Dichloroethene
Concen: 18.753 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 96 Resp: 26966
Ion Ratio Lower Upper
96 100
61 165.8 131.1 196.7
98 61.5 51.6 77.4

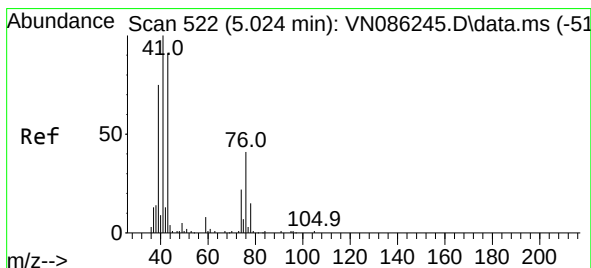
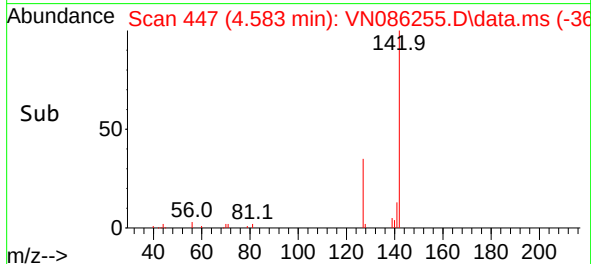
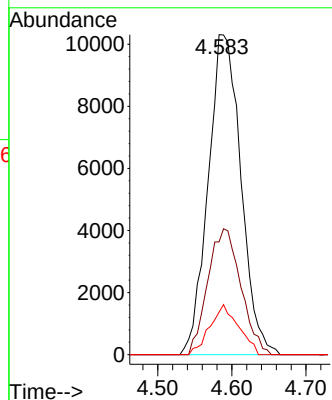
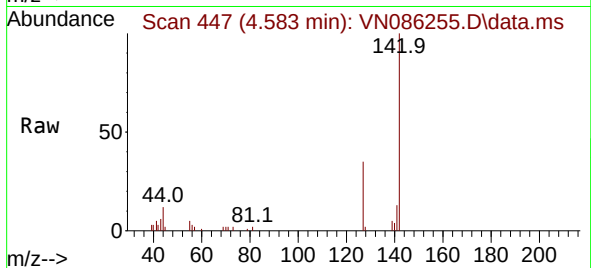




#11
Methyl Iodide
Concen: 19.145 ug/l
RT: 4.583 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

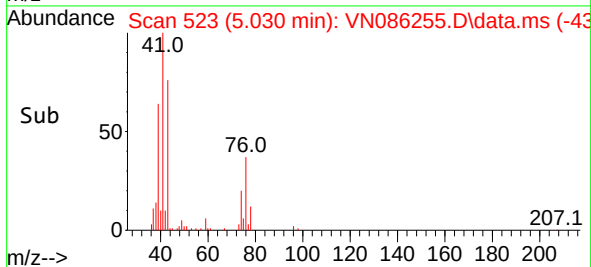
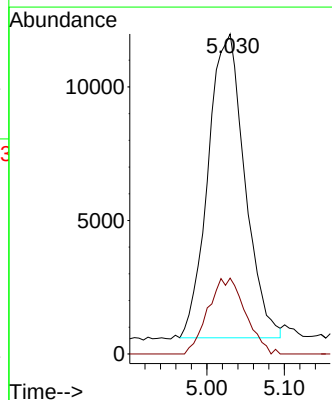
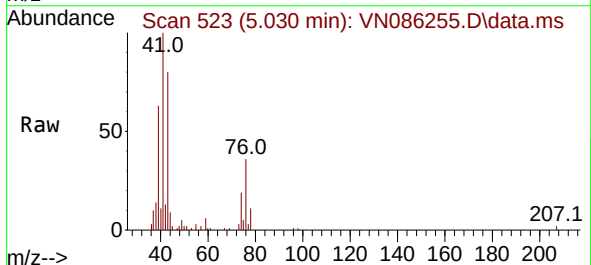
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

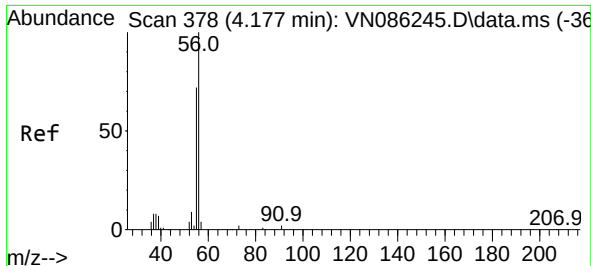
Tgt Ion:142 Resp: 31641
Ion Ratio Lower Upper
142 100
127 35.3 19.6 58.8
141 13.3 7.3 21.9



#12
Methyl Acetate
Concen: 18.433 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 43 Resp: 37430
Ion Ratio Lower Upper
43 100
74 25.4 19.1 28.7





#13

Acrolein

Concen: 82.706 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

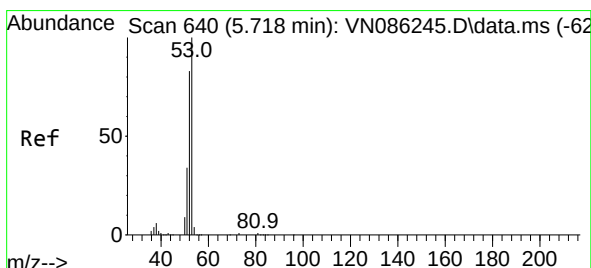
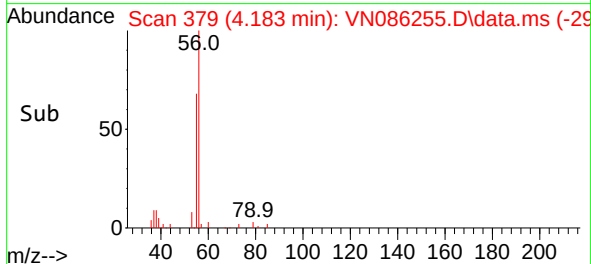
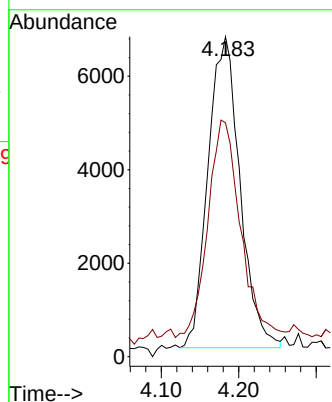
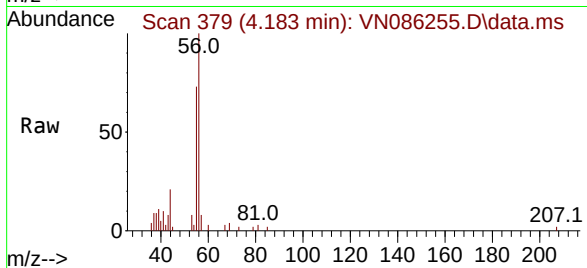
VSTDCCC020EC

Tgt Ion: 56 Resp: 19090

Ion Ratio Lower Upper

56 100

55 73.3 56.5 84.7



#14

Acrylonitrile

Concen: 94.238 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

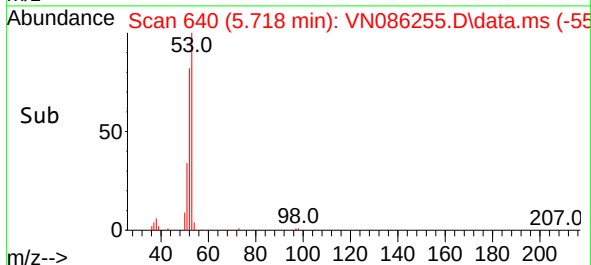
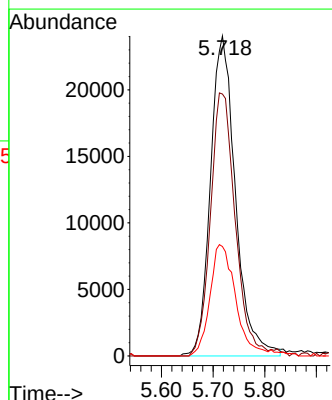
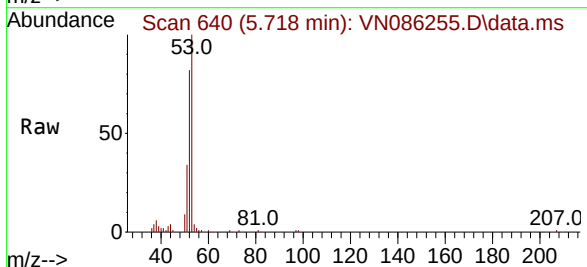
Tgt Ion: 53 Resp: 80784

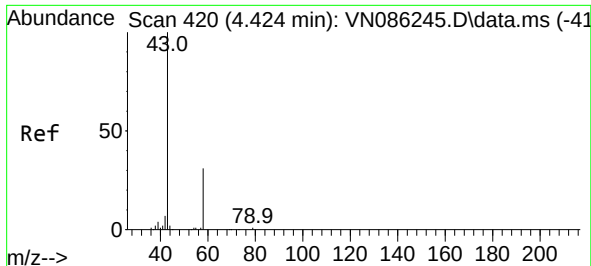
Ion Ratio Lower Upper

53 100

52 81.0 40.2 120.6

51 35.6 17.5 52.6

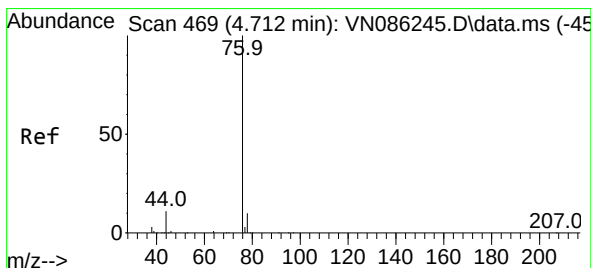
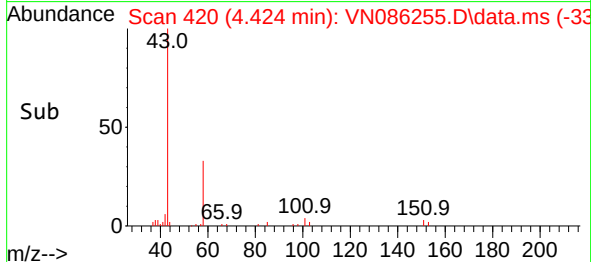
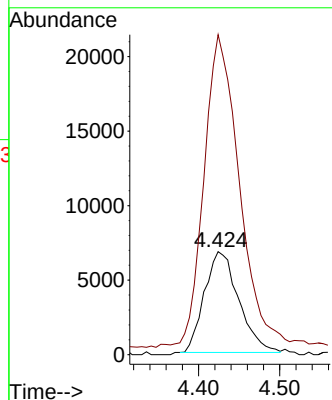
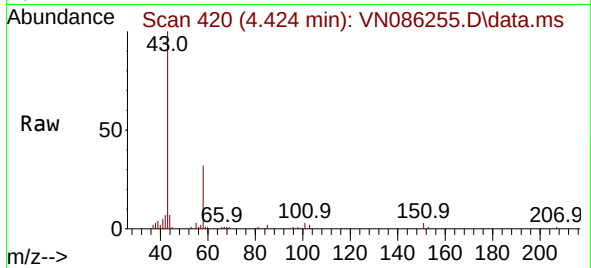




#15
Acetone
Concen: 91.311 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

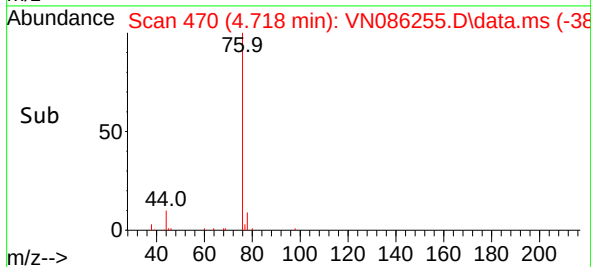
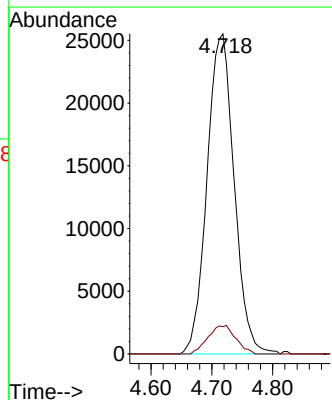
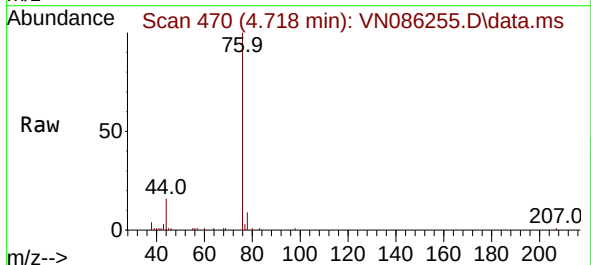
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

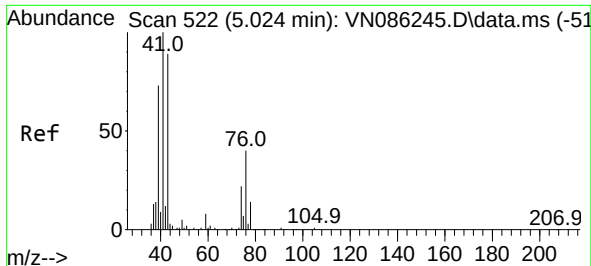
Tgt Ion: 58 Resp: 19847
Ion Ratio Lower Upper
58 100
43 305.8 261.8 392.8



#16
Carbon Disulfide
Concen: 19.148 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 76 Resp: 78952
Ion Ratio Lower Upper
76 100
78 8.6 7.7 11.5





#17

Allyl chloride

Concen: 19.596 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

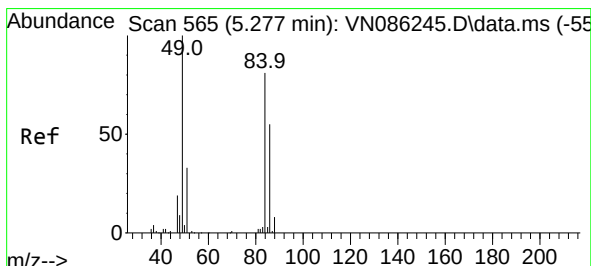
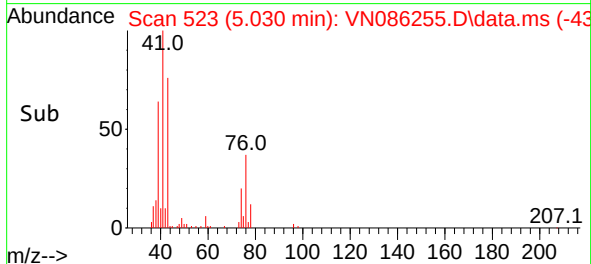
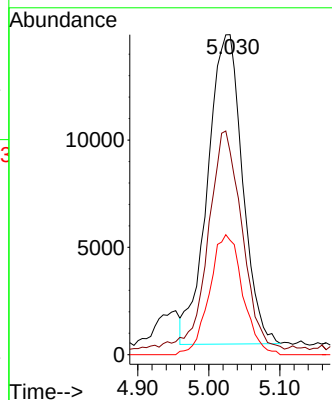
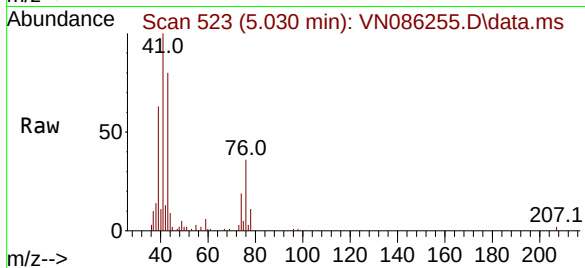
Tgt Ion: 41 Resp: 49113

Ion Ratio Lower Upper

41 100

39 63.0 34.4 103.2

76 37.1 18.8 56.3



#18

Methylene Chloride

Concen: 19.010 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Tgt Ion: 84 Resp: 31167

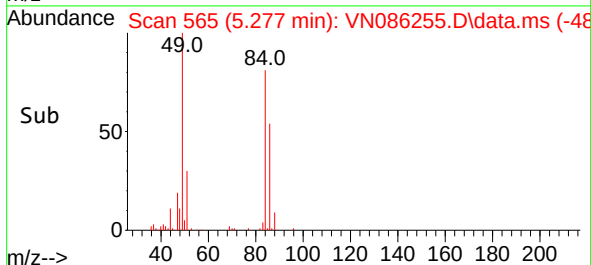
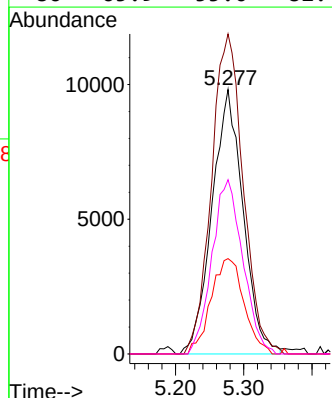
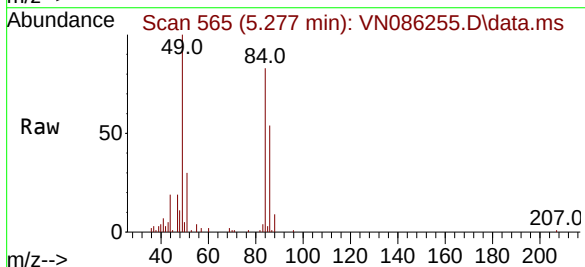
Ion Ratio Lower Upper

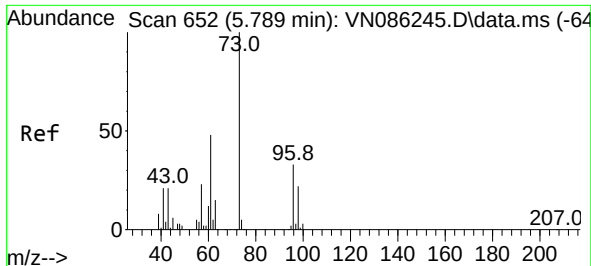
84 100

49 121.0 99.1 148.7

51 36.1 32.3 48.5

86 65.9 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 18.843 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

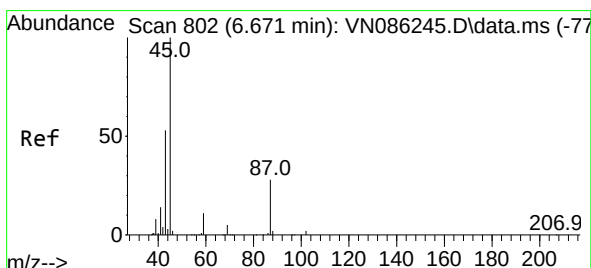
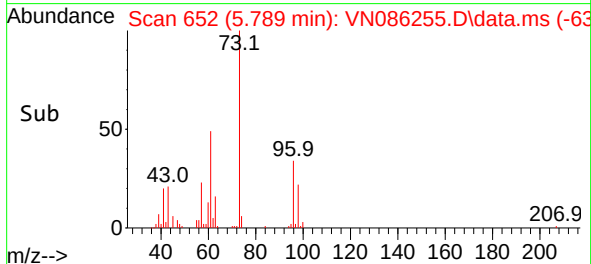
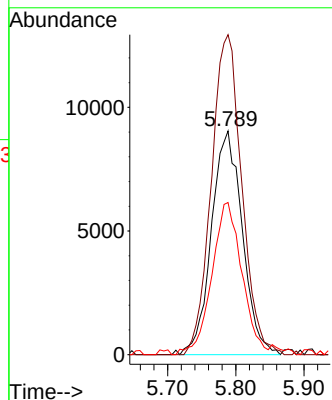
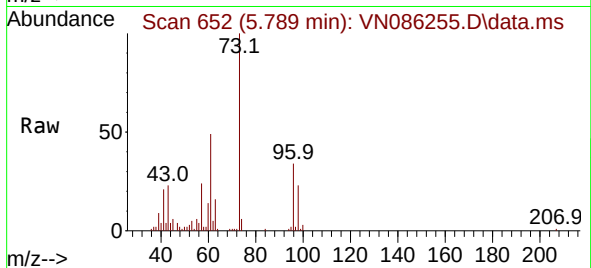
Tgt Ion: 96 Resp: 28540

Ion Ratio Lower Upper

96 100

61 143.1 115.9 173.9

98 65.6 52.1 78.1



#20

Diisopropyl ether

Concen: 17.775 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Tgt Ion: 45 Resp: 95774

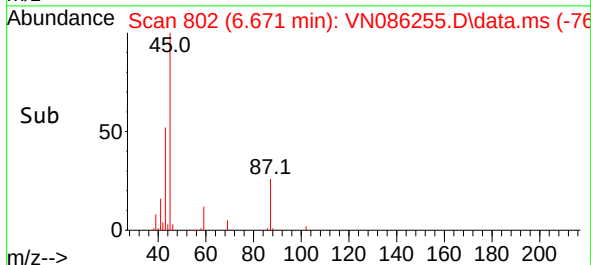
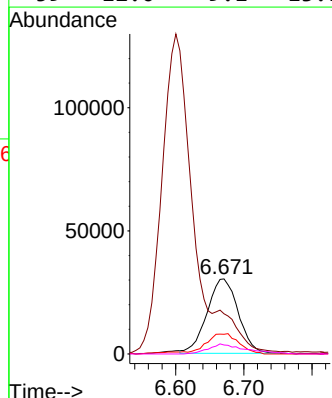
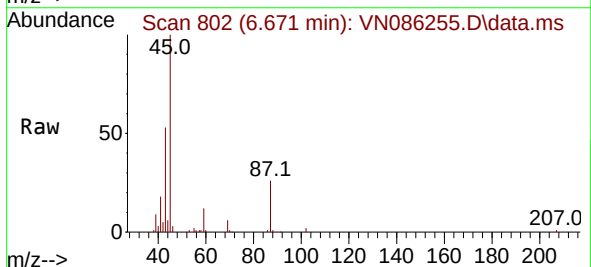
Ion Ratio Lower Upper

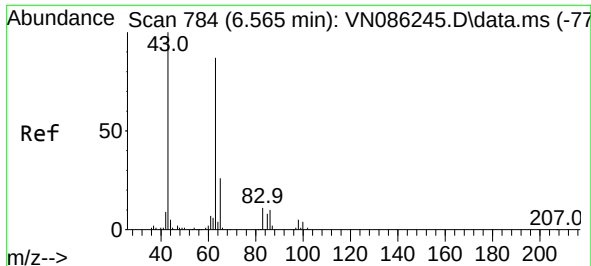
45 100

43 51.0 42.3 63.5

87 26.4 22.2 33.4

59 12.0 9.1 13.7





#21

1,1-Dichloroethane

Concen: 19.295 ug/l

RT: 6.571 min Scan# 784

Delta R.T. 0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

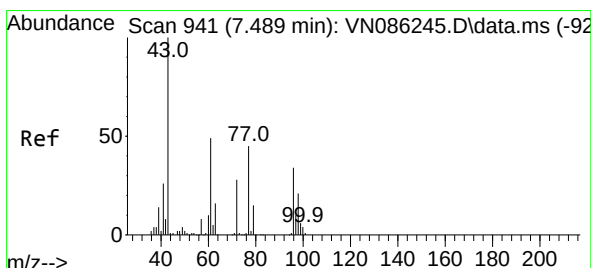
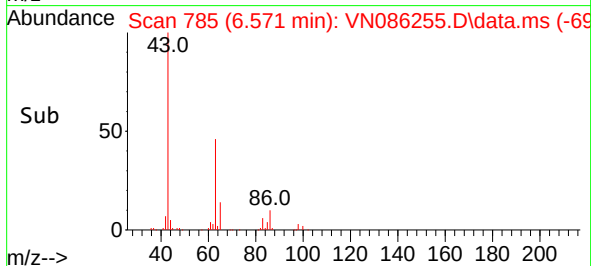
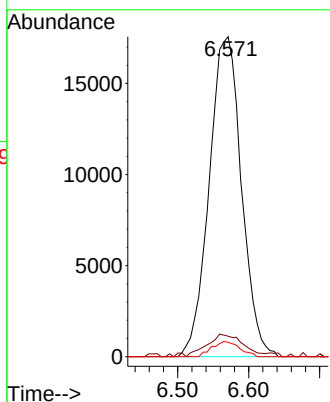
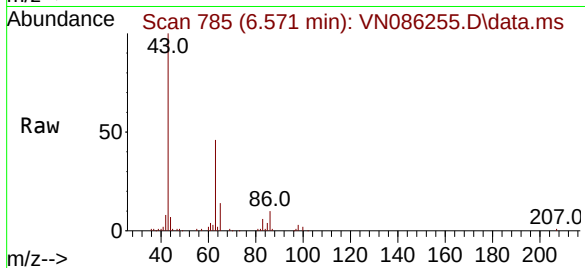
Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:	63	Resp:	55465
Ion Ratio	Lower	Upper	
63	100		
98	5.3	3.1	9.3
100	4.5	2.3	6.9



#22

cis-1,2-Dichloroethene

Concen: 19.057 ug/l

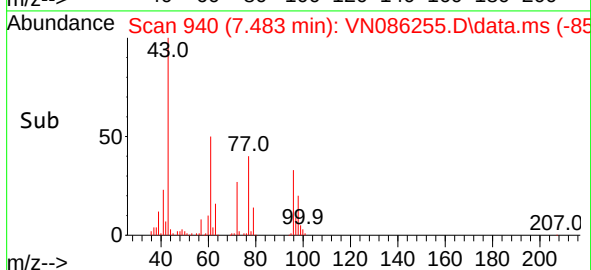
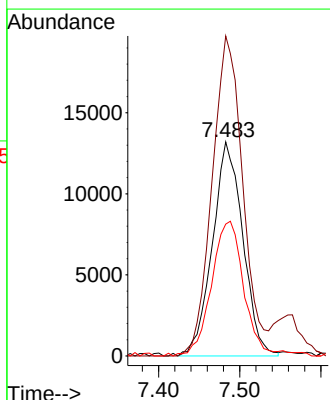
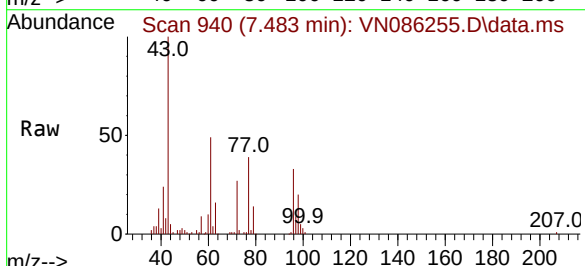
RT: 7.483 min Scan# 940

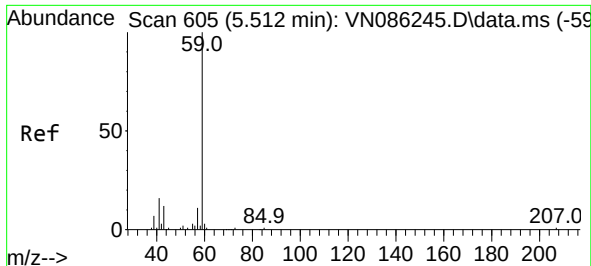
Delta R.T. -0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Tgt Ion:	96	Resp:	34384
Ion Ratio	Lower	Upper	
96	100		
61	150.8	119.5	179.3
98	62.9	51.0	76.6

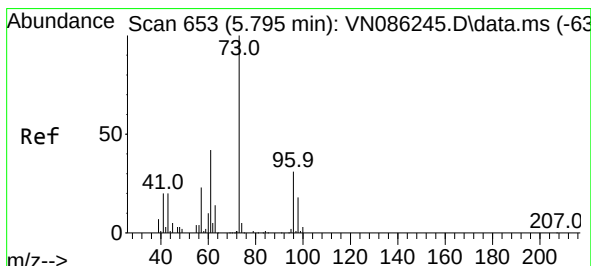
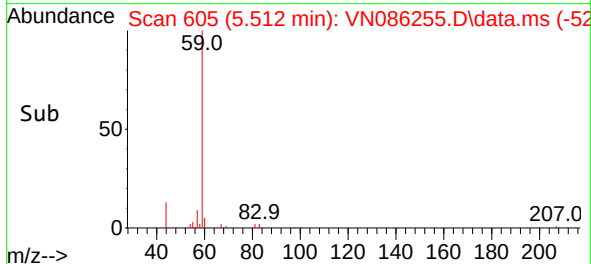
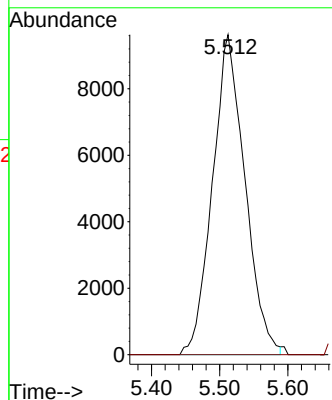
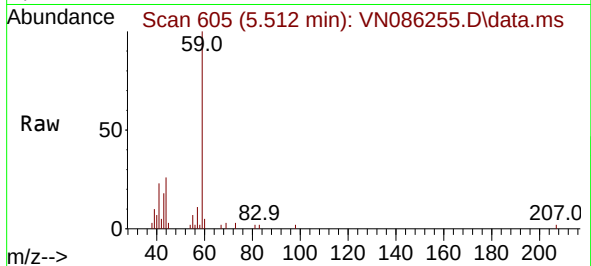




#23
tert-Butyl Alcohol
Concen: 89.739 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

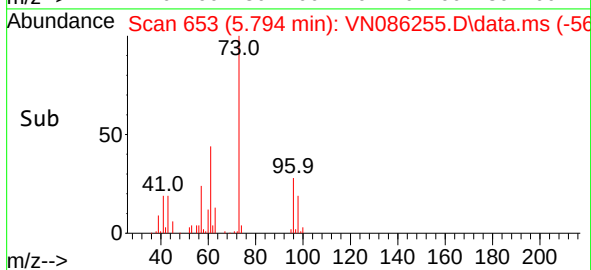
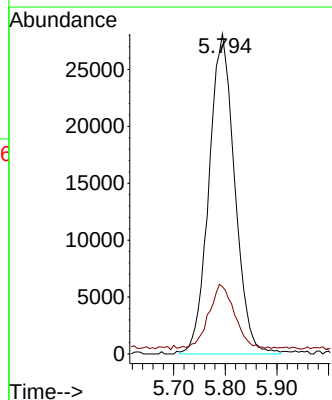
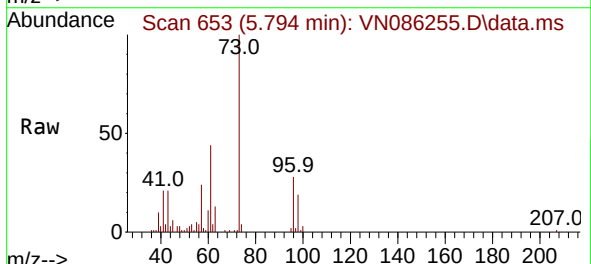
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

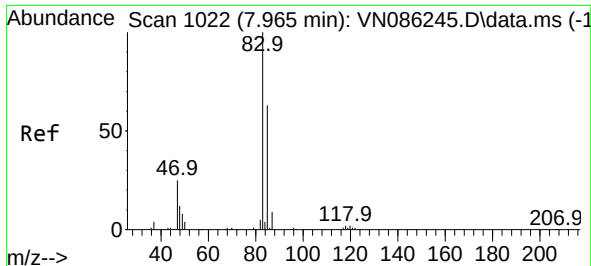
Tgt Ion: 59 Resp: 31875
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#24
Methyl tert-Butyl Ether
Concen: 18.777 ug/l
RT: 5.794 min Scan# 653
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 73 Resp: 97437
Ion Ratio Lower Upper
73 100
43 20.0 16.8 25.2

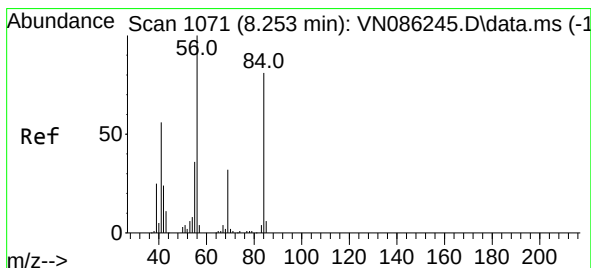
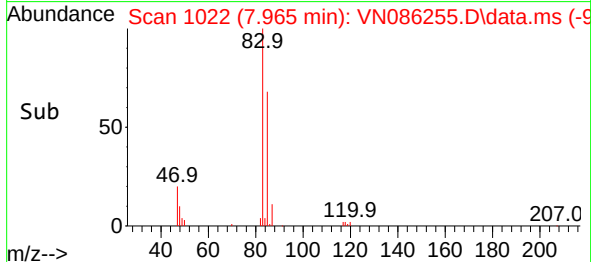
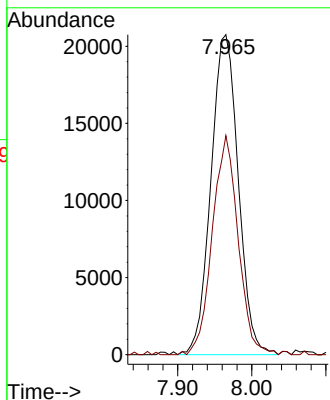
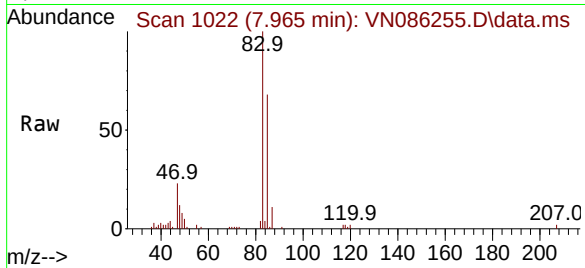




#25
Chloroform
Concen: 19.423 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

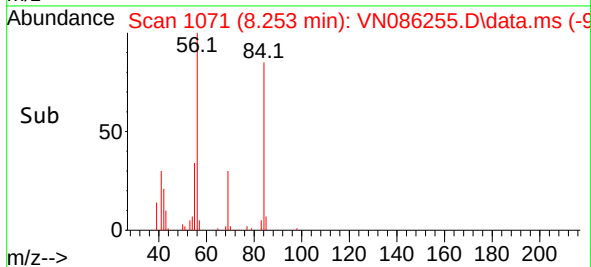
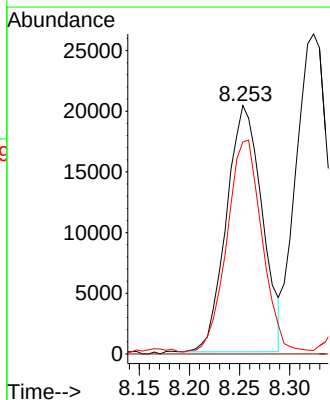
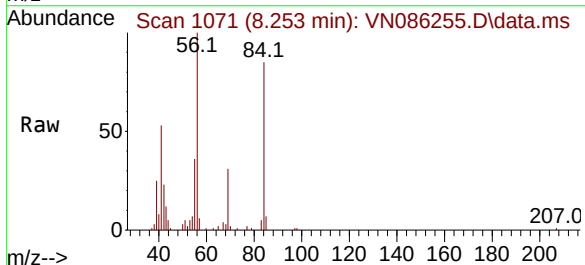
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

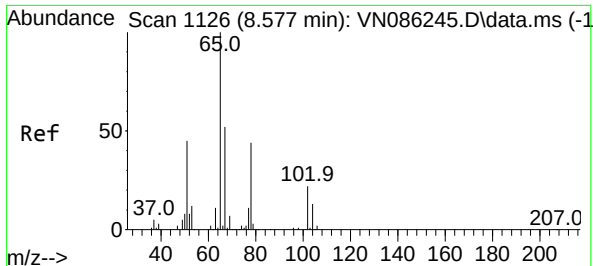
Tgt Ion: 83 Resp: 53242
Ion Ratio Lower Upper
83 100
85 68.5 50.5 75.7



#26
Cyclohexane
Concen: 18.733 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 56 Resp: 50381
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.9 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.085 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

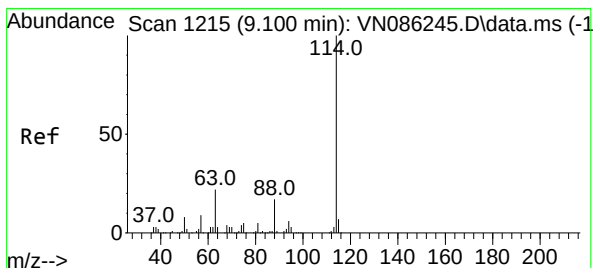
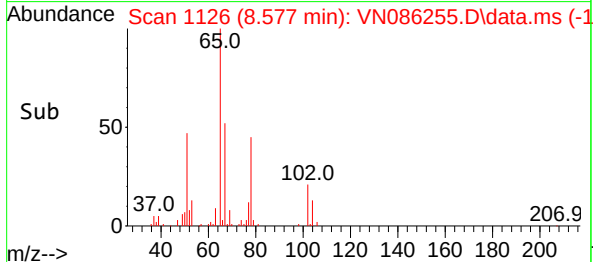
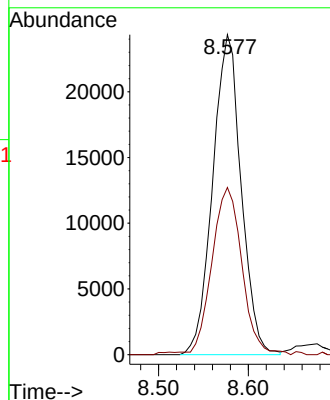
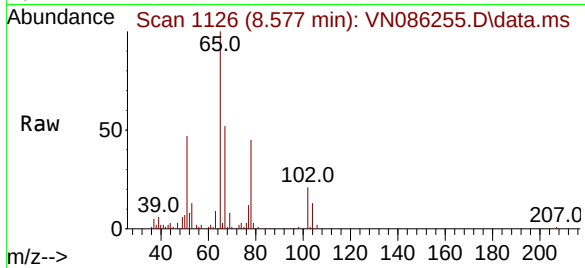
VSTDCCC020EC

Tgt Ion: 65 Resp: 53571

Ion Ratio Lower Upper

65 100

67 54.5 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

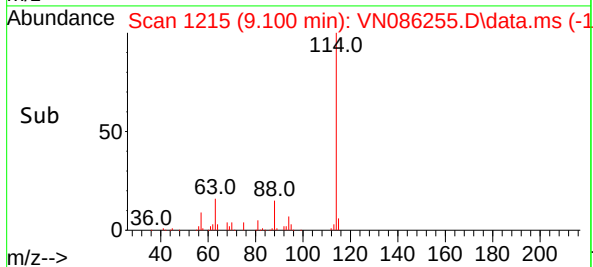
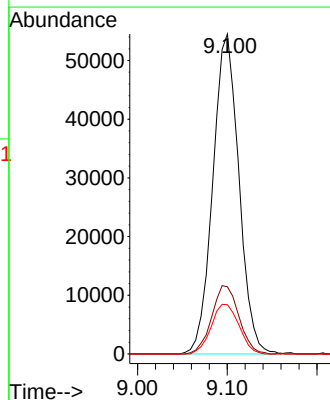
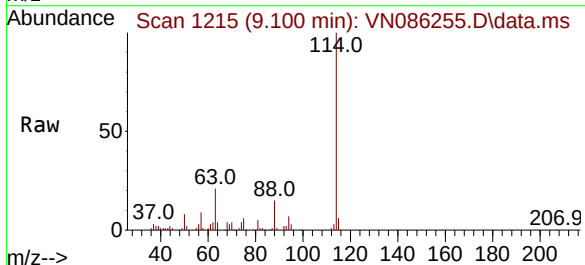
Tgt Ion: 114 Resp: 109876

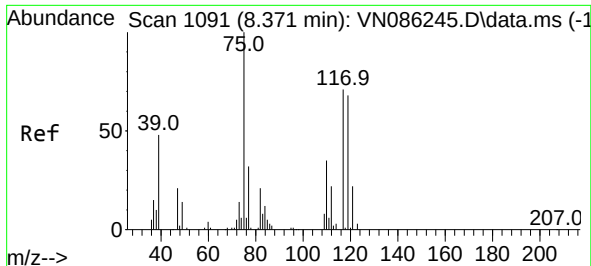
Ion Ratio Lower Upper

114 100

63 22.3 17.8 26.6

88 16.5 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.965 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

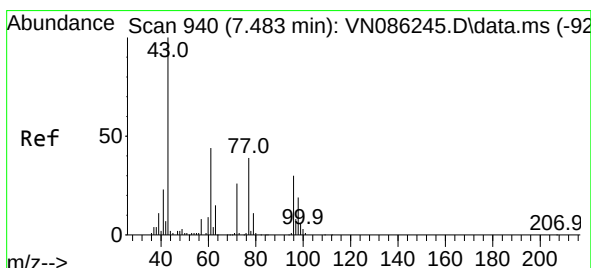
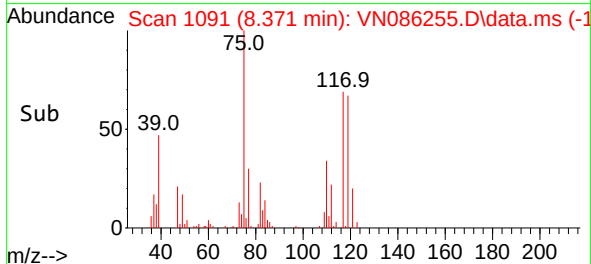
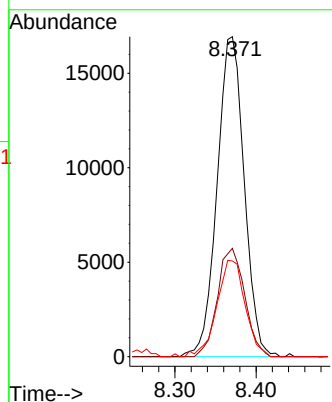
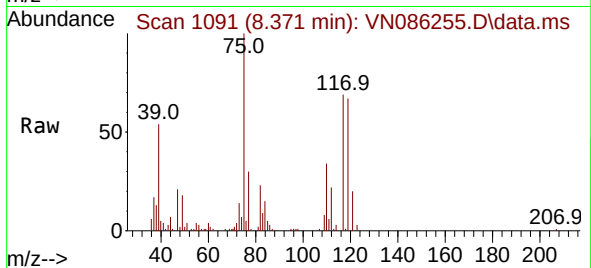
Tgt Ion: 75 Resp: 39298

Ion Ratio Lower Upper

75 100

110 34.1 0.0 68.6

77 31.5 0.0 63.8



#30

2-Butanone

Concen: 96.889 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

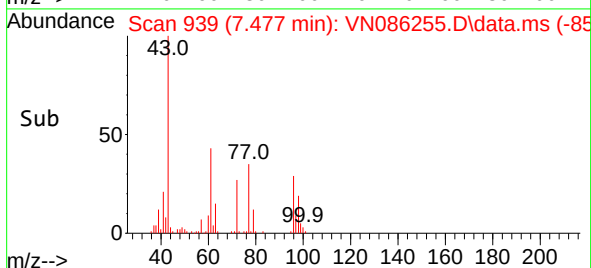
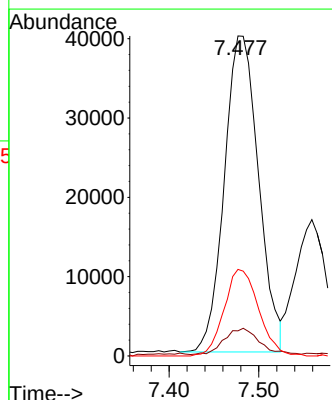
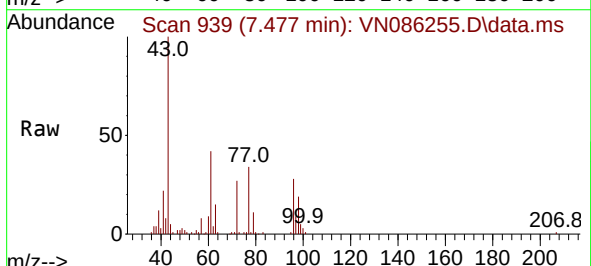
Tgt Ion: 43 Resp: 105674

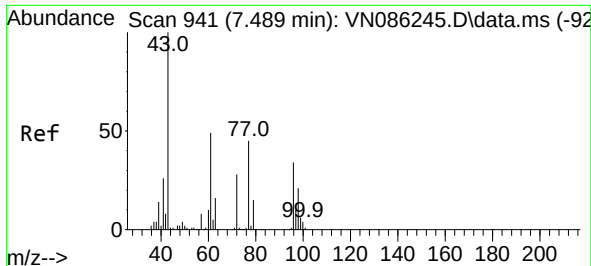
Ion Ratio Lower Upper

43 100

57 8.0 6.4 9.6

72 27.4 21.5 32.3

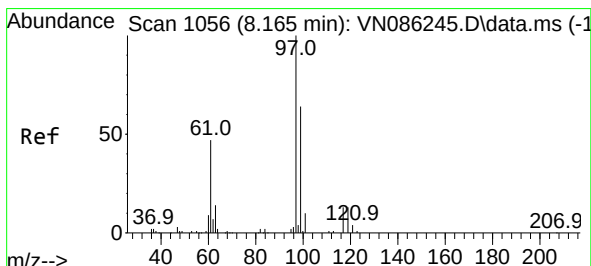
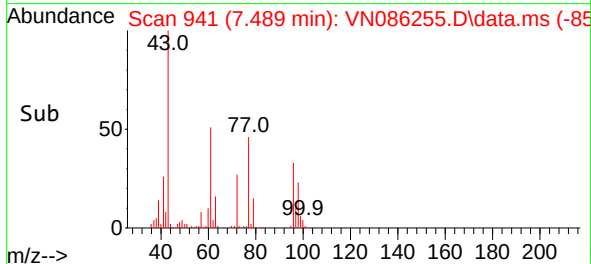
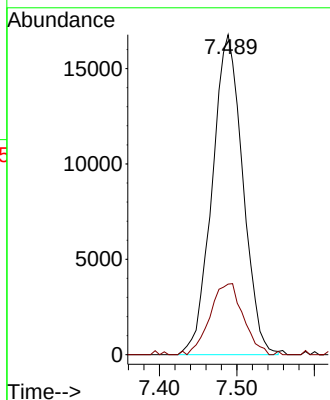
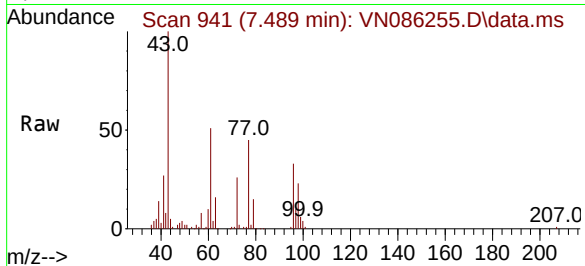




#31
2,2-Dichloropropane
Concen: 19.045 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

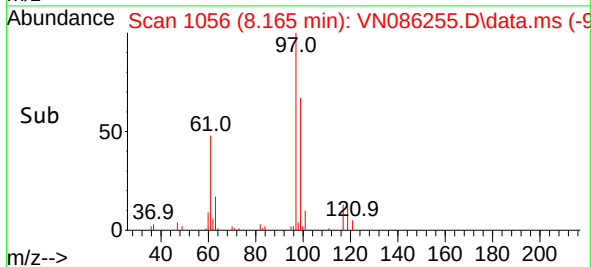
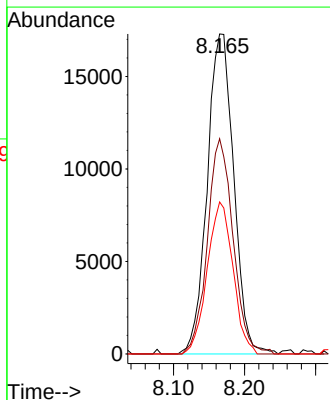
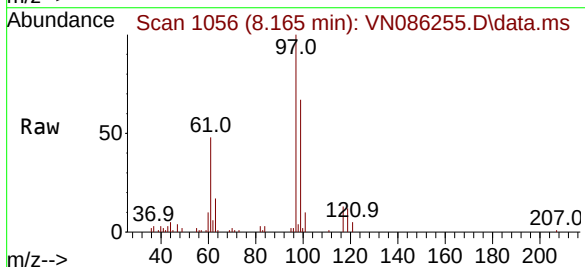
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

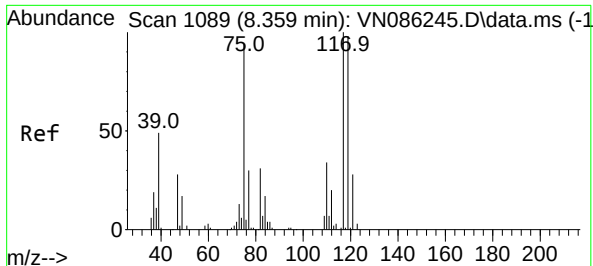
Tgt Ion: 77 Resp: 46144
Ion Ratio Lower Upper
77 100
97 23.9 18.8 28.2



#32
1,1,1-Trichloroethane
Concen: 19.825 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 97 Resp: 44888
Ion Ratio Lower Upper
97 100
99 65.1 51.4 77.2
61 46.0 37.0 55.6

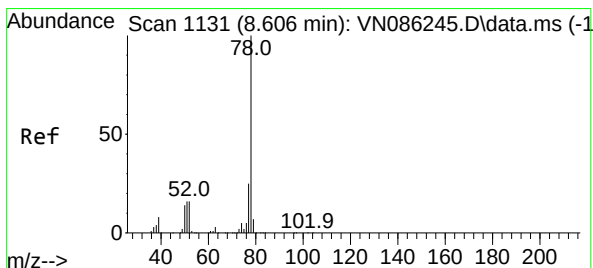
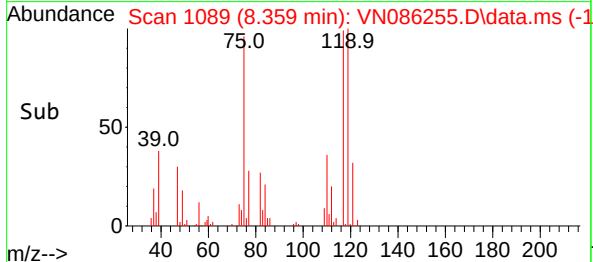
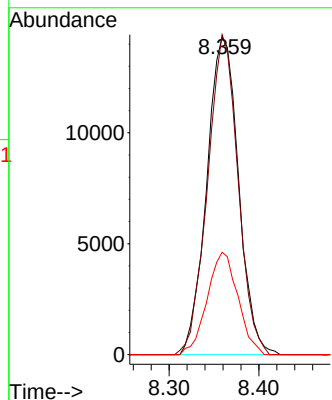
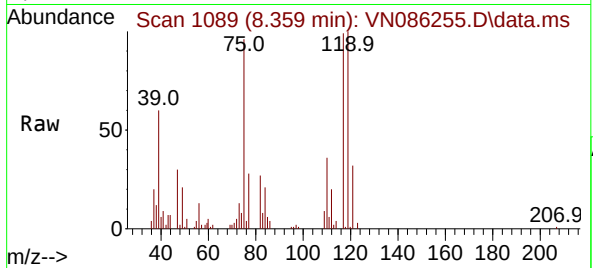




#33
Carbon Tetrachloride
Concen: 19.444 ug/l
RT: 8.359 min Scan# 1108
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

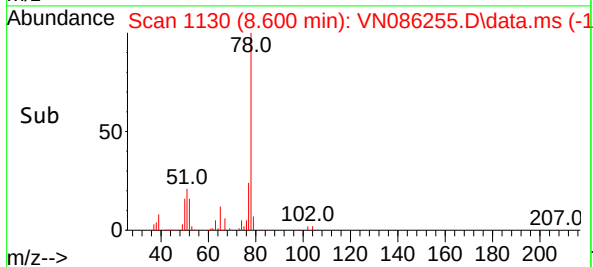
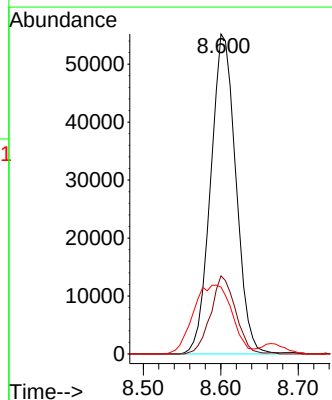
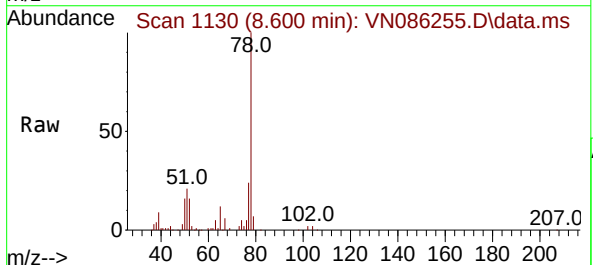
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

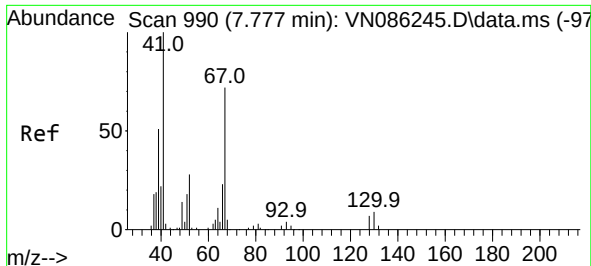
Tgt Ion:117 Resp: 35183
Ion Ratio Lower Upper
117 100
119 100.7 78.3 117.5
121 32.2 22.5 33.7



#34
Benzene
Concen: 19.909 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 78 Resp: 124673
Ion Ratio Lower Upper
78 100
77 24.4 20.0 30.0
51 18.5 12.9 19.3

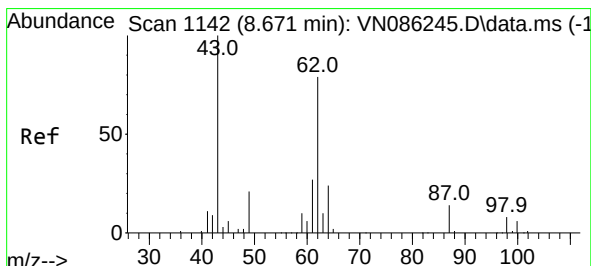
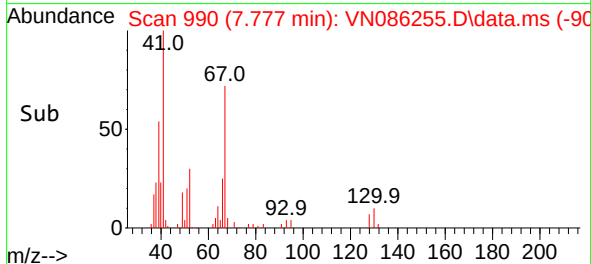
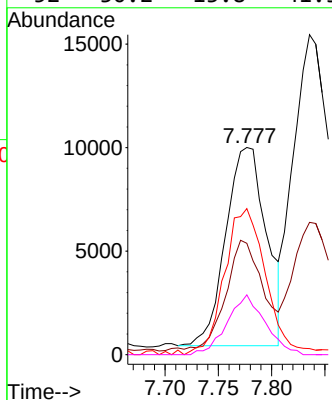
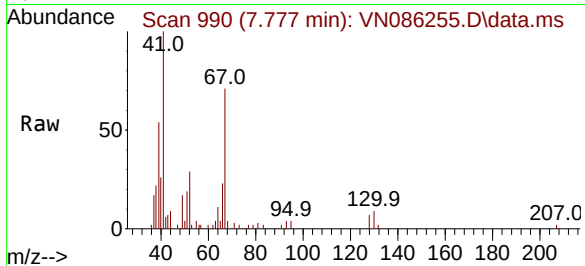




#35
Methacrylonitrile
Concen: 20.728 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

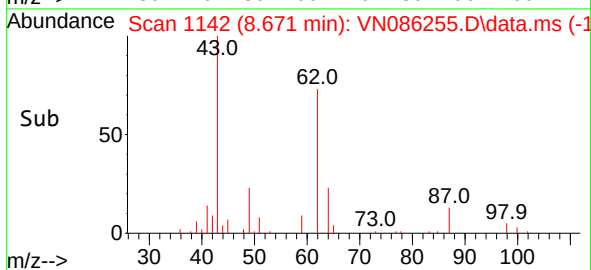
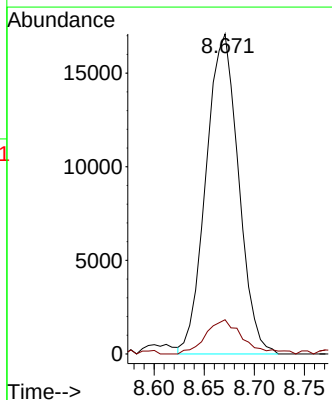
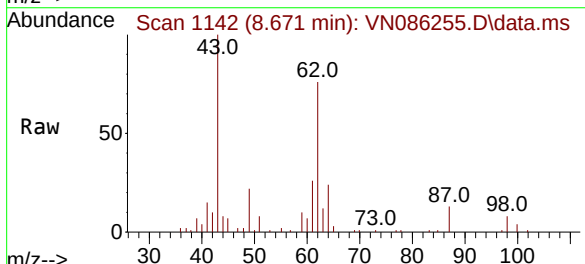
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

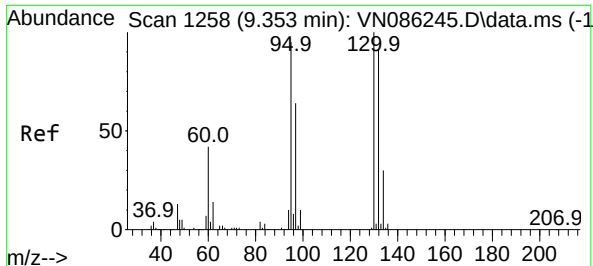
Tgt Ion: 41	Resp: 25486
Ion Ratio	Lower Upper
41 100	
39 52.8	25.8 77.3
67 71.4	36.0 108.0
52 30.2	13.8 41.3



#36
1,2-Dichloroethane
Concen: 19.705 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 62	Resp: 38614
Ion Ratio	Lower Upper
62 100	
98 11.9	8.6 12.8





#37

Trichloroethene

Concen: 18.904 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

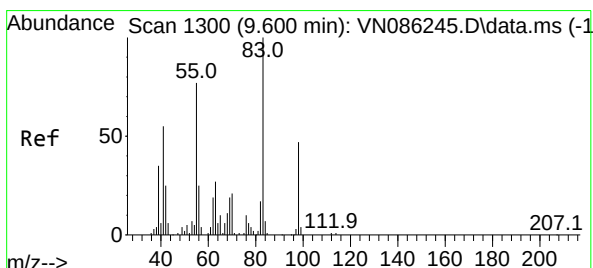
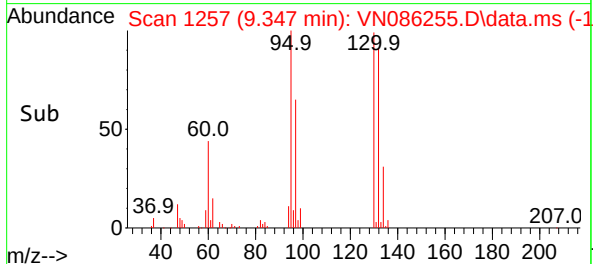
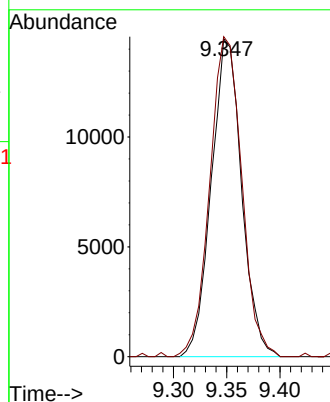
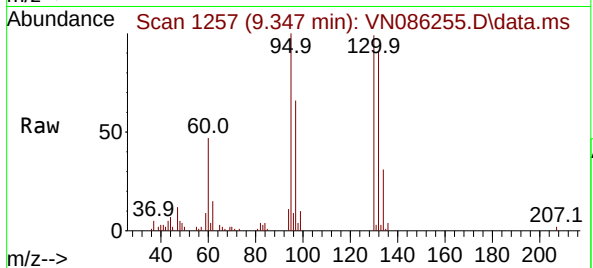
VSTDCCC020EC

Tgt Ion:130 Resp: 28562

Ion Ratio Lower Upper

130 100

95 100.7 76.4 114.6



#38

Methylcyclohexane

Concen: 18.901 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

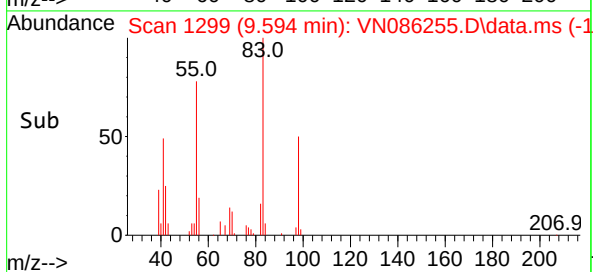
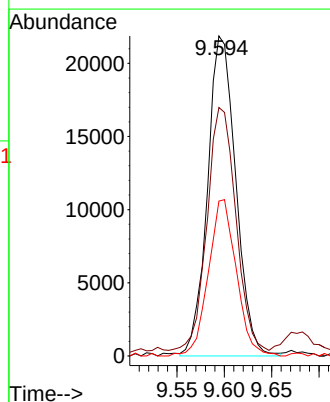
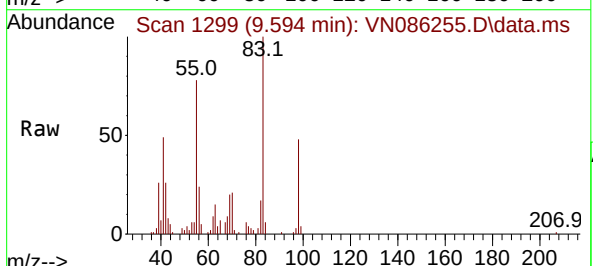
Tgt Ion: 83 Resp: 45627

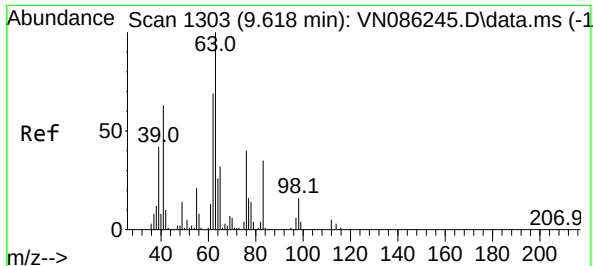
Ion Ratio Lower Upper

83 100

55 77.7 38.5 115.5

98 48.0 24.4 73.2





#39

1,2-Dichloropropane

Concen: 19.693 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

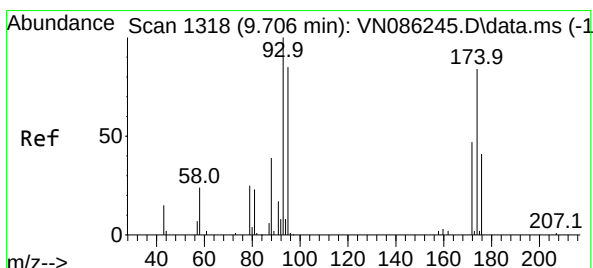
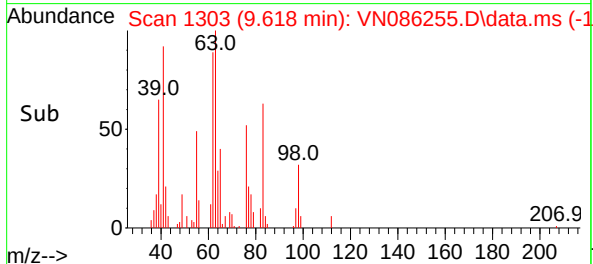
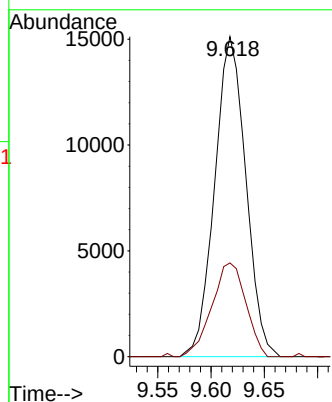
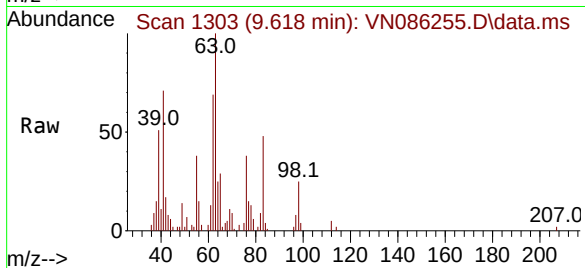
VSTDCCC020EC

Tgt Ion: 63 Resp: 30685

Ion Ratio Lower Upper

63 100

65 29.3 26.0 39.0



#40

Dibromomethane

Concen: 19.875 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

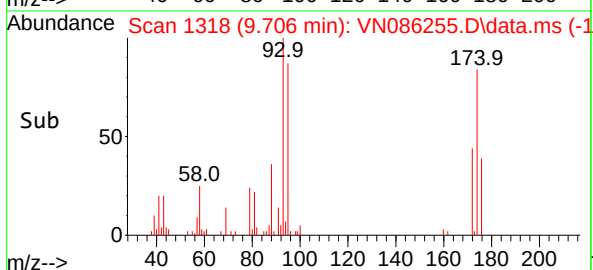
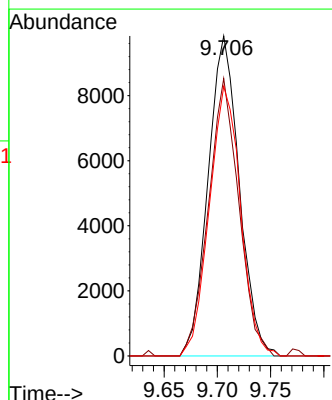
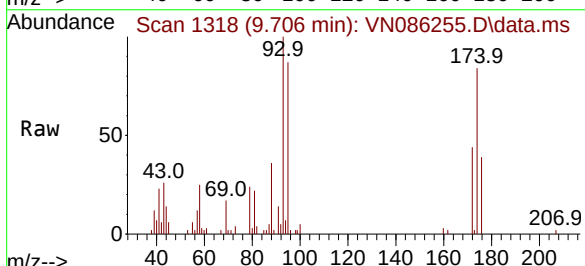
Tgt Ion: 93 Resp: 20002

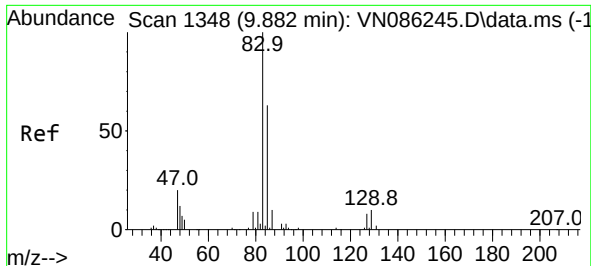
Ion Ratio Lower Upper

93 100

95 84.4 0.0 169.0

174 84.5 0.0 168.0

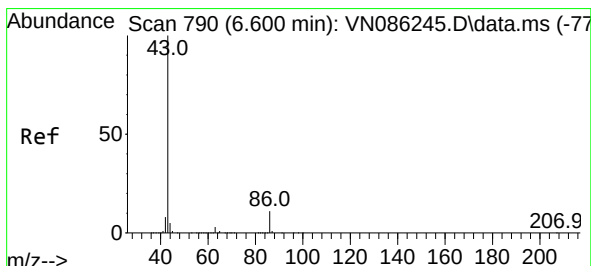
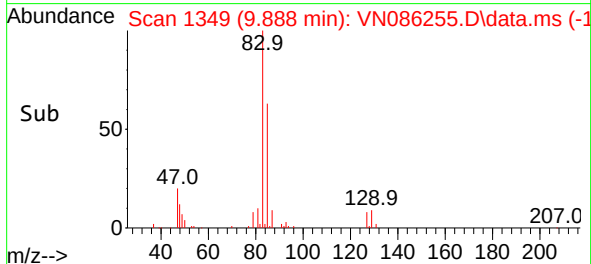
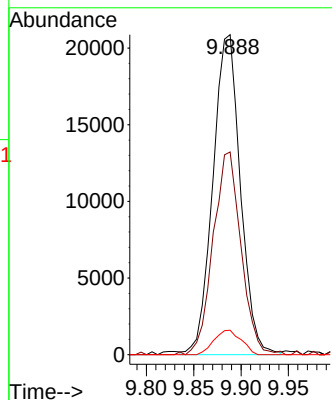
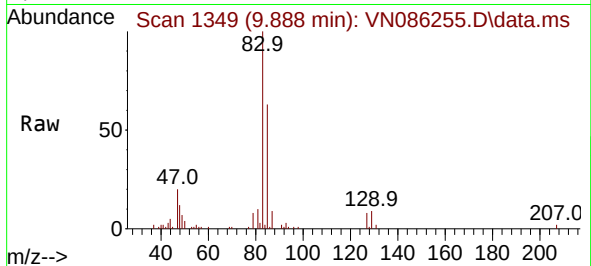




#41
Bromodichloromethane
Concen: 19.539 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

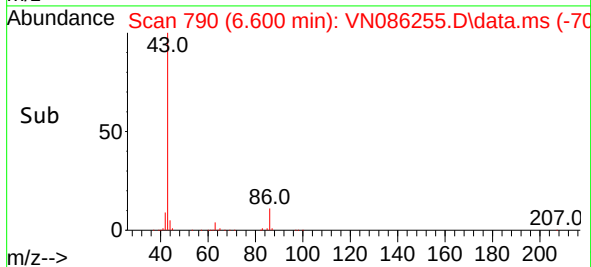
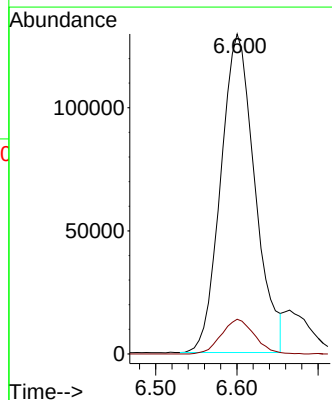
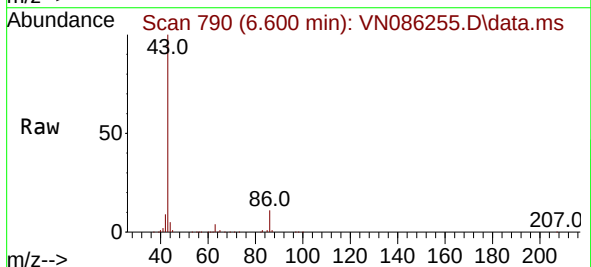
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

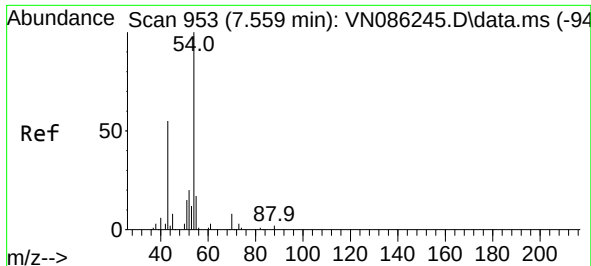
Tgt Ion: 83 Resp: 42242
Ion Ratio Lower Upper
83 100
85 63.0 50.2 75.2
127 7.7 6.2 9.4



#42
Vinyl Acetate
Concen: 101.896 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 43 Resp: 378299
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6

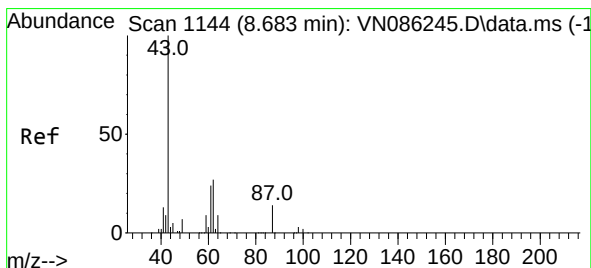
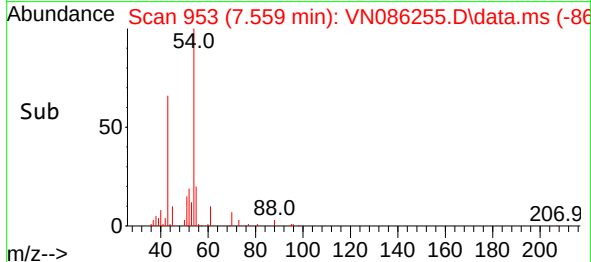
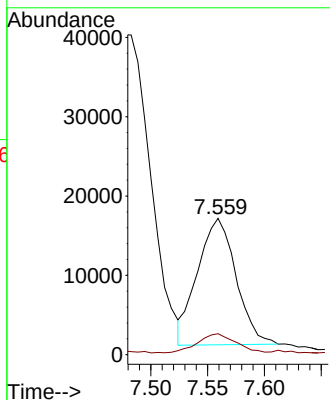
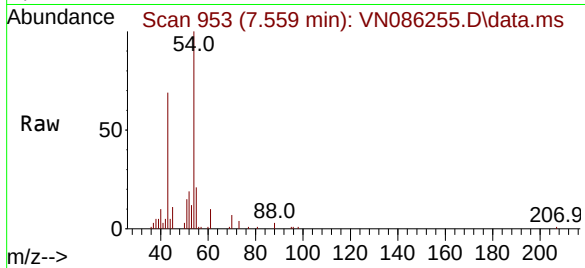




#43
Ethyl Acetate
Concen: 17.072 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

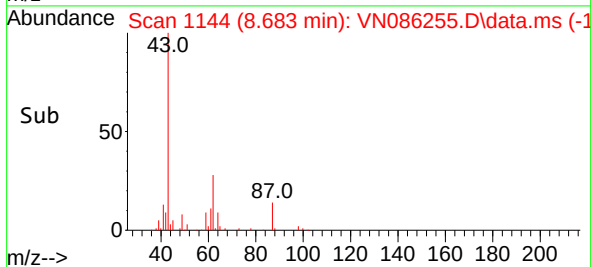
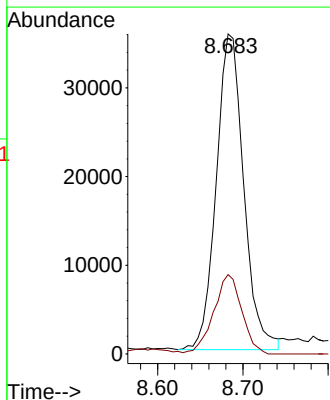
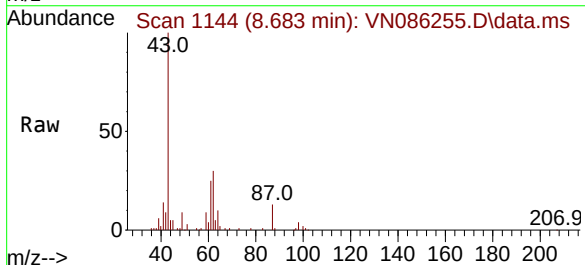
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

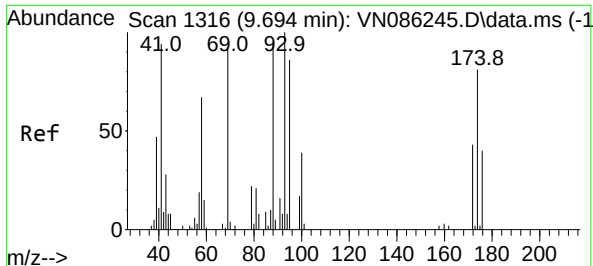
Tgt Ion: 43 Resp: 37557
Ion Ratio Lower Upper
43 100
45 16.9 11.2 16.8#



#44
Isopropyl Acetate
Concen: 19.518 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 43 Resp: 79656
Ion Ratio Lower Upper
43 100
61 25.7 20.5 30.7





#45

1,4-Dioxane

Concen: 392.047 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

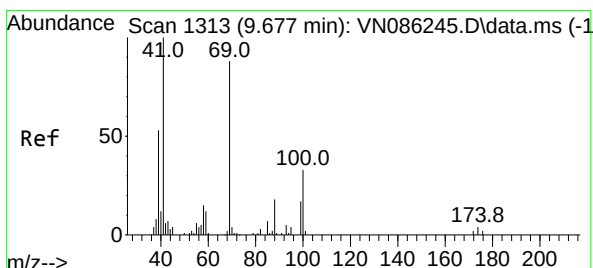
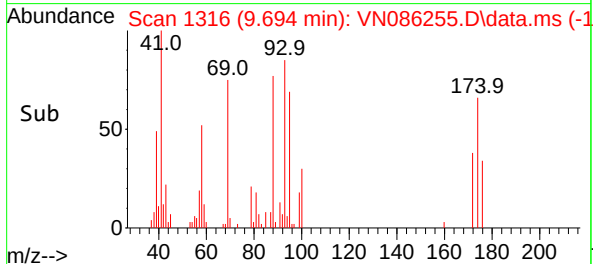
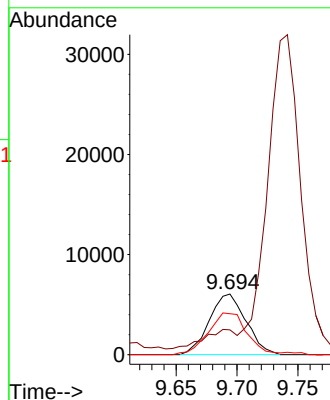
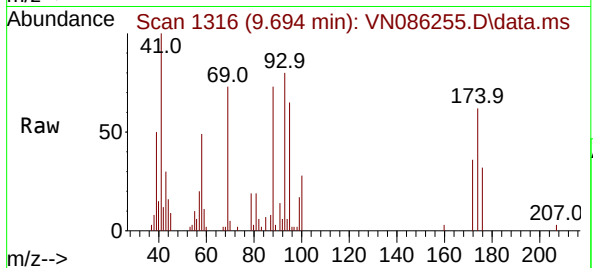
Tgt Ion: 88 Resp: 12723

Ion Ratio Lower Upper

88 100

43 28.1 14.4 21.6#

58 72.3 59.8 89.8



#46

Methyl methacrylate

Concen: 19.067 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

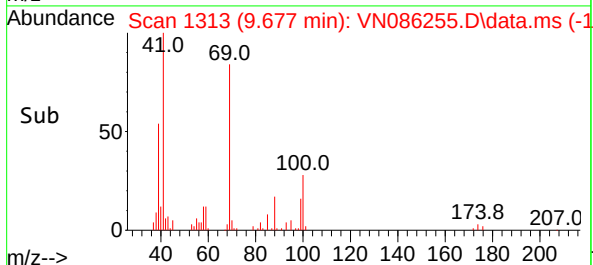
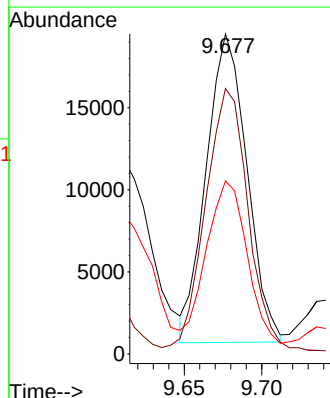
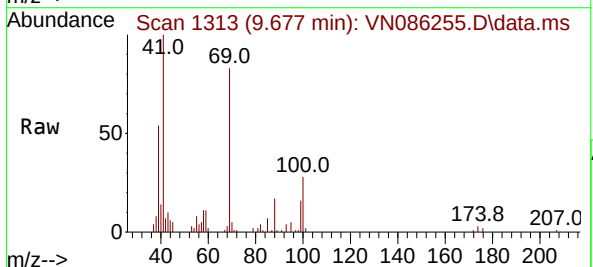
Tgt Ion: 41 Resp: 34286

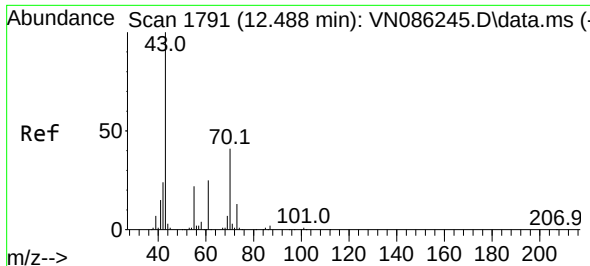
Ion Ratio Lower Upper

41 100

69 84.2 43.2 129.6

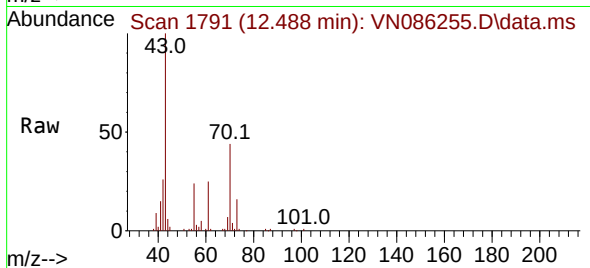
39 54.0 26.4 79.0



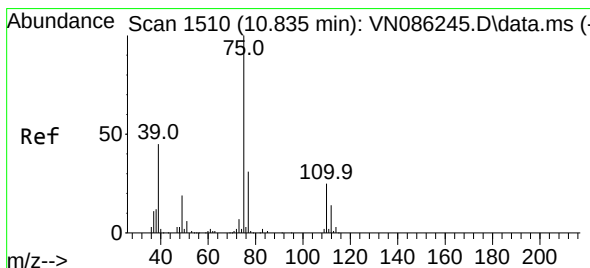
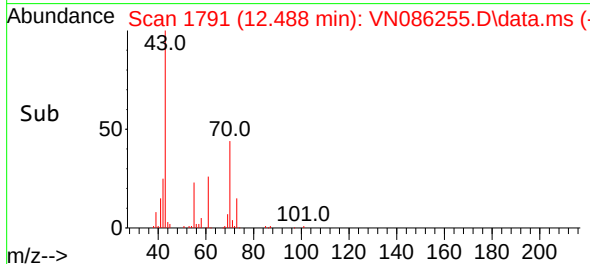
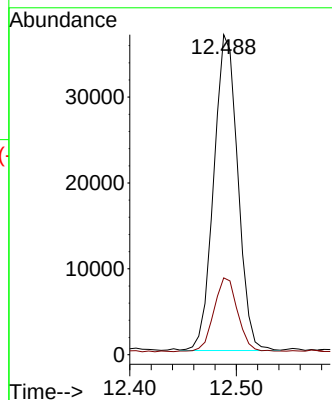


#47
n-amyl acetate
Concen: 17.812 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

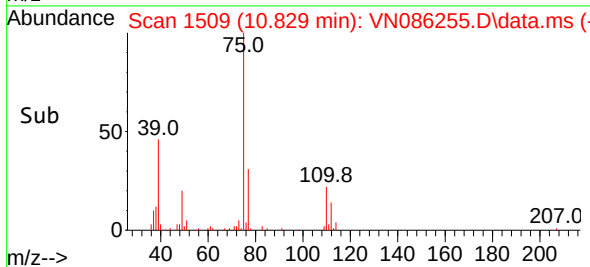
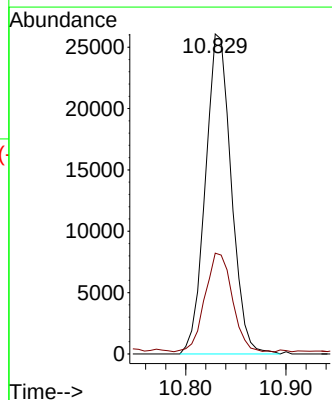
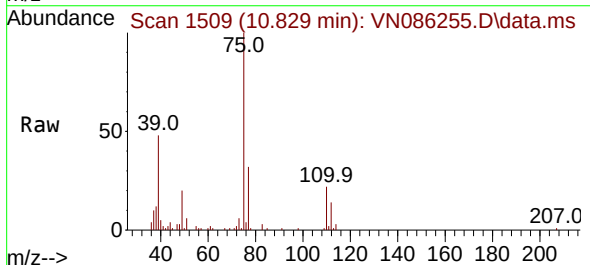


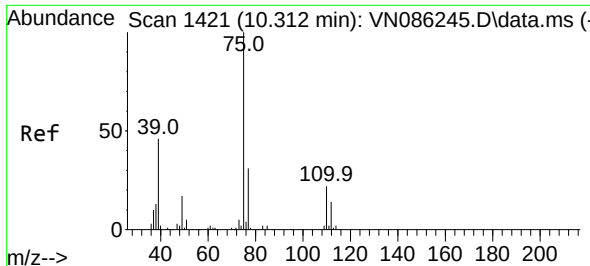
Tgt Ion: 43 Resp: 57635
Ion Ratio Lower Upper
43 100
55 23.2 19.0 28.4



#48
t-1,3-Dichloropropene
Concen: 19.149 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 75 Resp: 46804
Ion Ratio Lower Upper
75 100
77 30.4 25.1 37.7

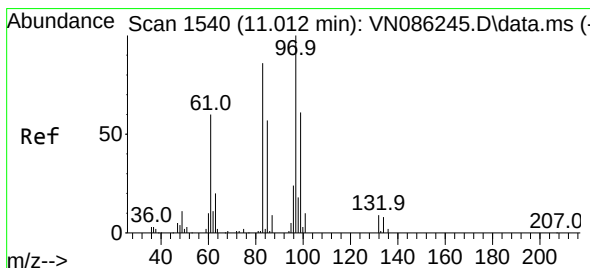
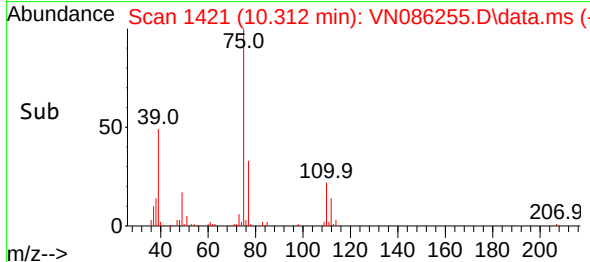
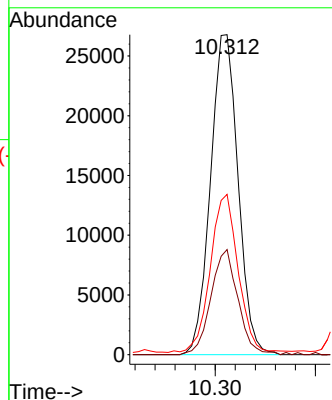
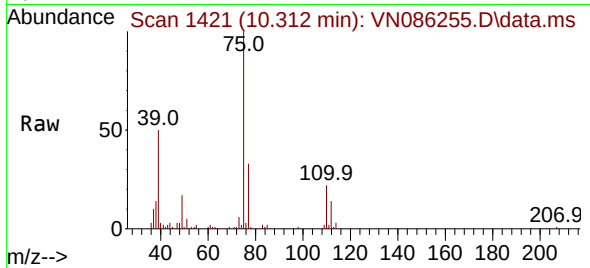




#49
 cis-1,3-Dichloropropene
 Concen: 19.814 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

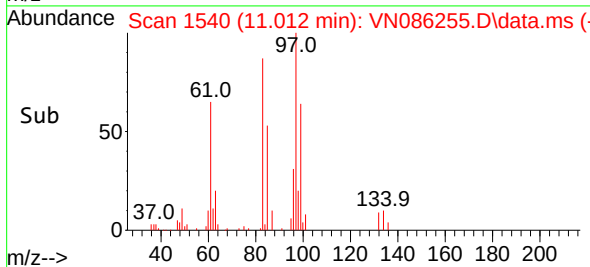
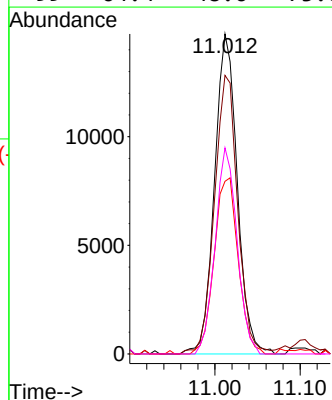
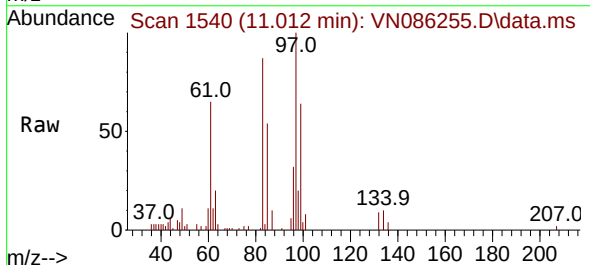
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

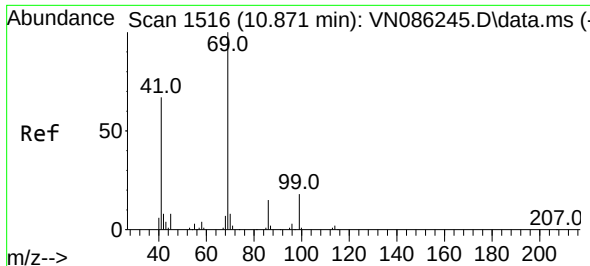
Tgt Ion:	75	Resp:	51256
Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.0	37.4
39	49.2	36.7	55.1



#50
 1,1,2-Trichloroethane
 Concen: 19.319 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. 0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

Tgt Ion:	97	Resp:	27268
Ion	Ratio	Lower	Upper
97	100		
83	87.0	68.6	103.0
85	54.0	45.9	68.9
99	64.4	48.6	73.0

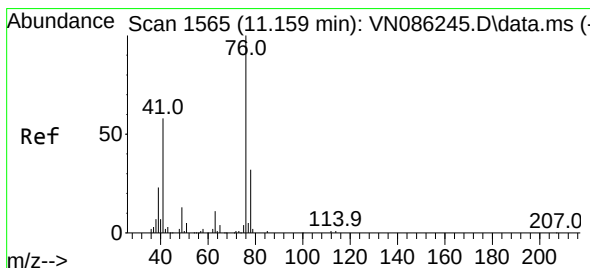
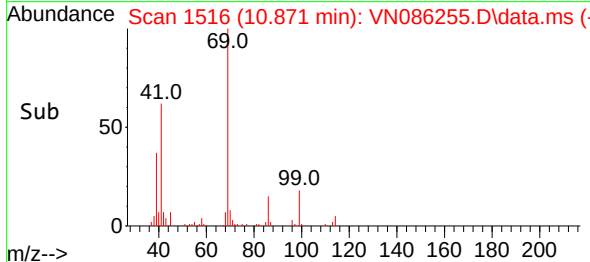
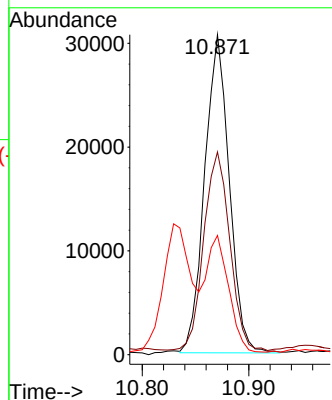
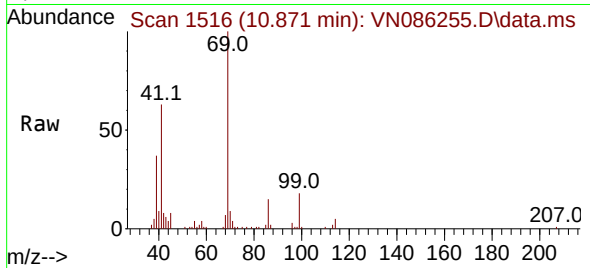




#51
Ethyl methacrylate
Concen: 18.768 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

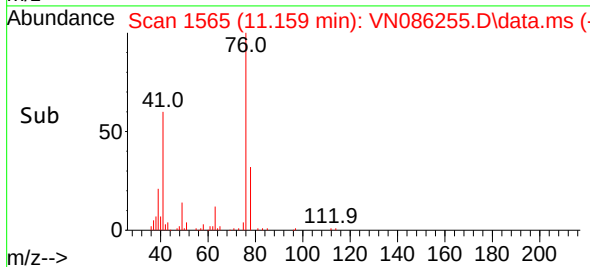
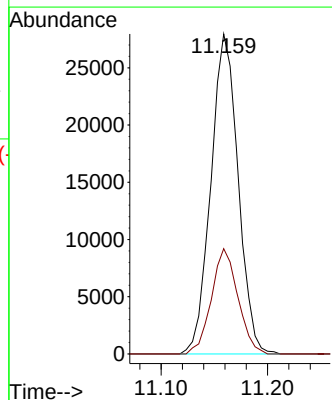
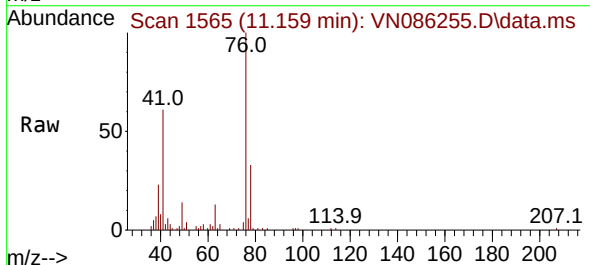
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

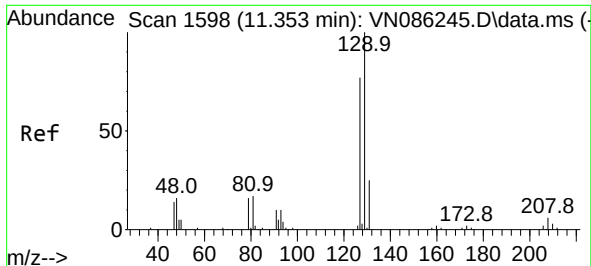
Tgt Ion: 69 Resp: 49228
Ion Ratio Lower Upper
69 100
41 62.0 33.6 100.6
39 36.8 17.8 53.4



#52
1,3-Dichloropropane
Concen: 19.740 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 76 Resp: 49662
Ion Ratio Lower Upper
76 100
78 32.0 0.0 64.6

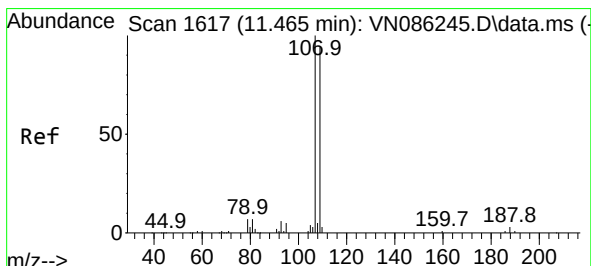
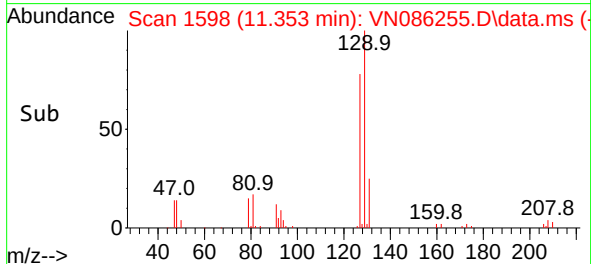
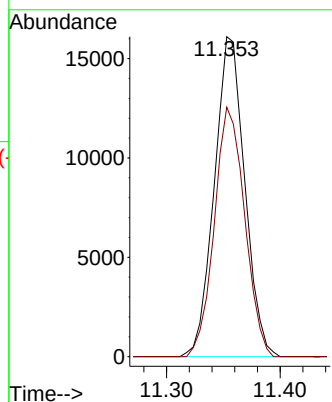
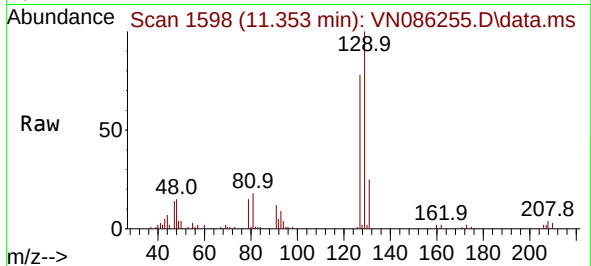




#53
Dibromochloromethane
Concen: 19.406 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

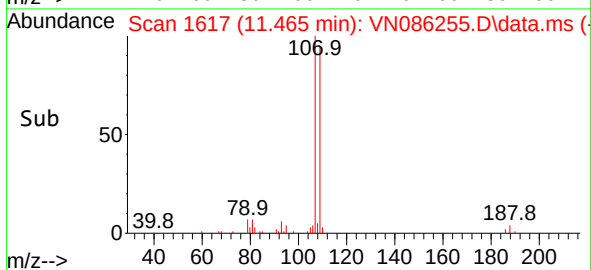
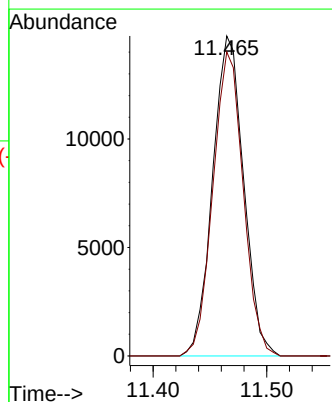
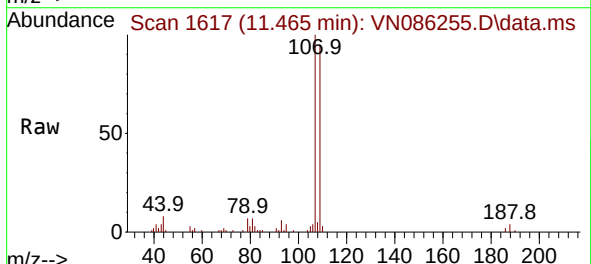
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

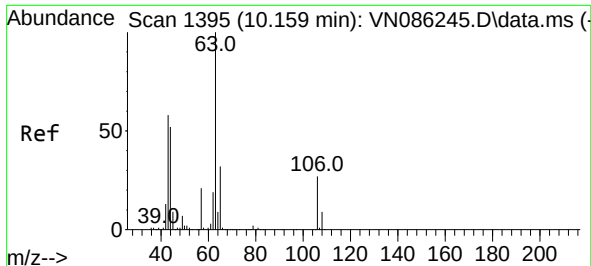
Tgt Ion:129 Resp: 29962
Ion Ratio Lower Upper
129 100
127 77.7 38.5 115.5



#54
1,2-Dibromoethane
Concen: 19.603 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:107 Resp: 27931
Ion Ratio Lower Upper
107 100
109 92.9 75.2 112.8

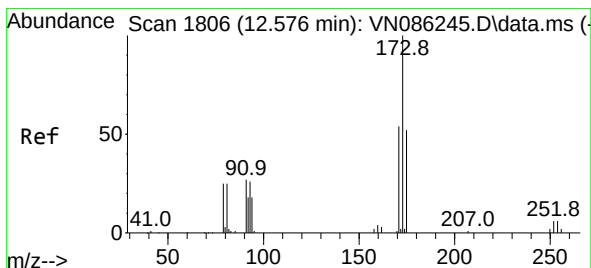
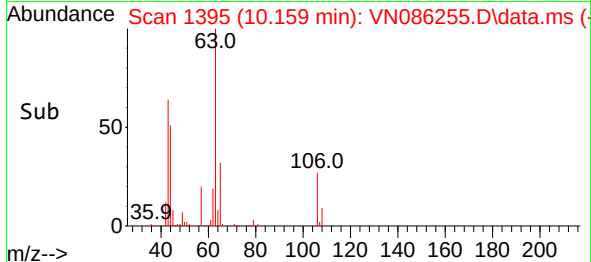
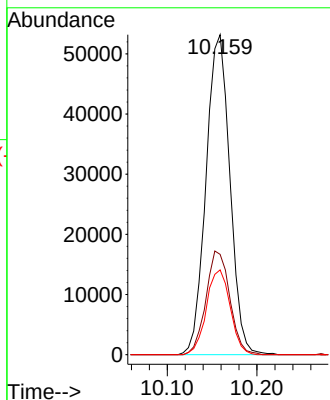
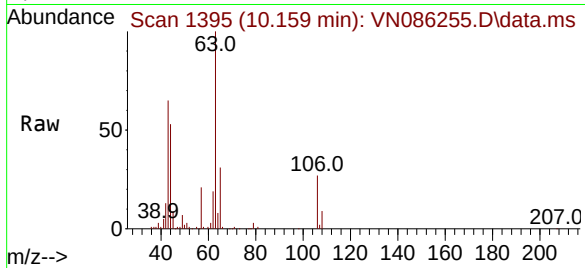




#55
2-Chloroethyl vinyl ether
Concen: 99.189 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

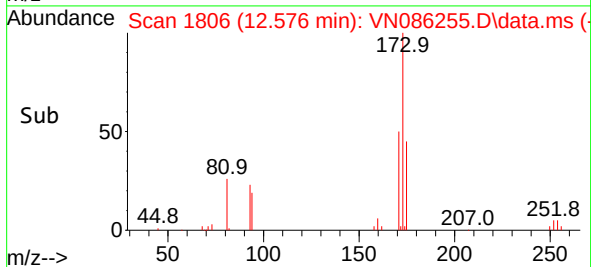
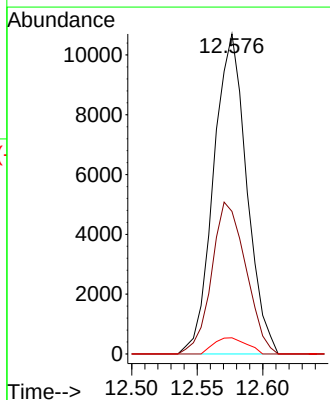
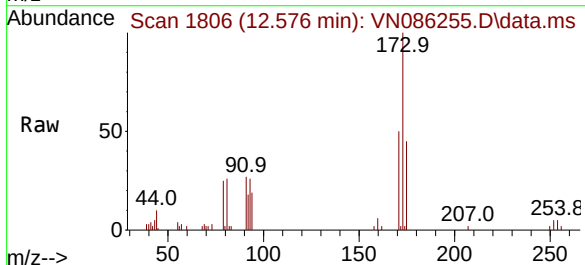
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

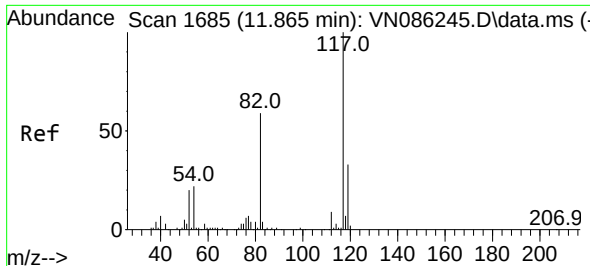
Tgt Ion: 63 Resp: 98312
Ion Ratio Lower Upper
63 100
65 32.4 25.8 38.8
106 26.4 21.8 32.8



#56
Bromoform
Concen: 18.566 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 173 Resp: 18754
Ion Ratio Lower Upper
173 100
175 49.1 38.2 57.4
254 5.0 4.5 6.7

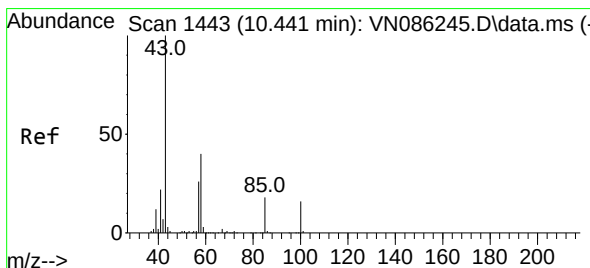
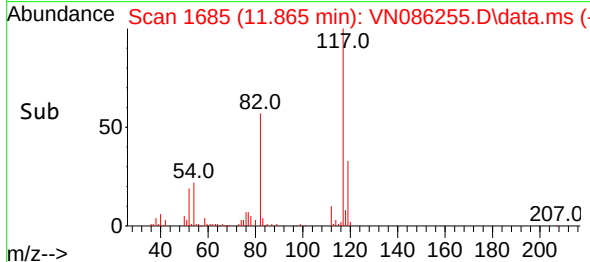
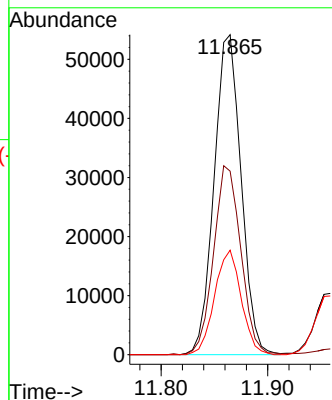
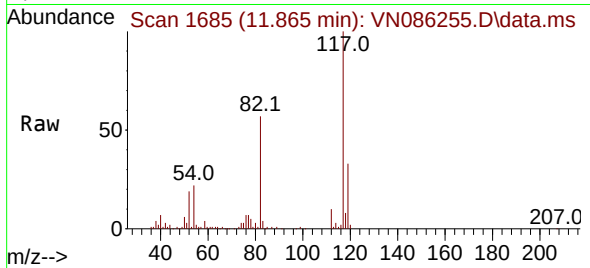




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

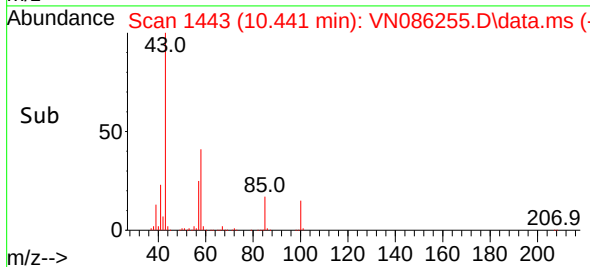
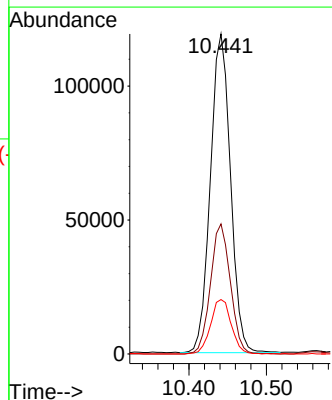
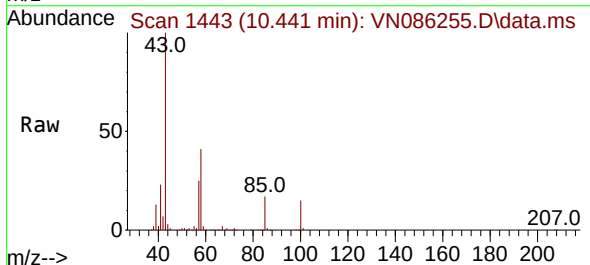
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

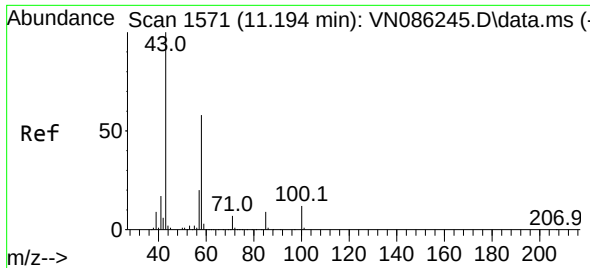
Tgt Ion:117 Resp: 95362
Ion Ratio Lower Upper
117 100
82 59.6 47.3 70.9
119 32.2 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 99.184 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 43 Resp: 214641
Ion Ratio Lower Upper
43 100
58 40.3 32.5 48.7
85 17.5 14.4 21.6

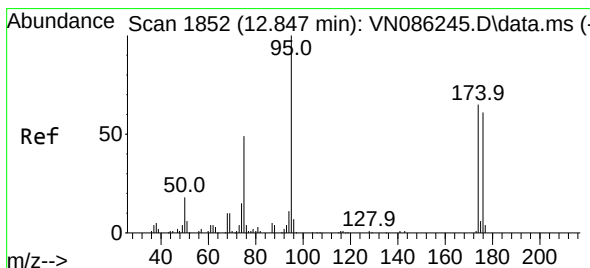
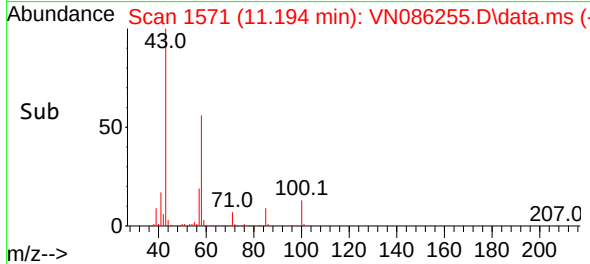
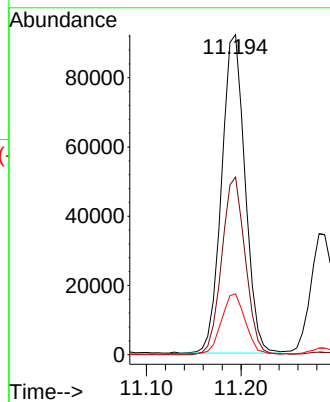
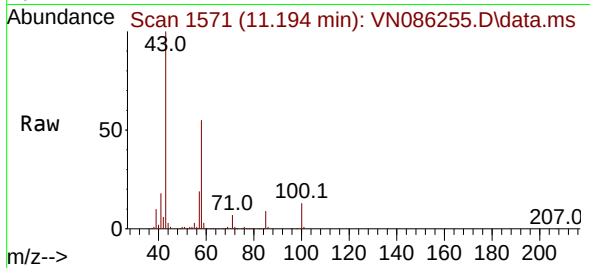




#59
2-Hexanone
Concen: 98.104 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

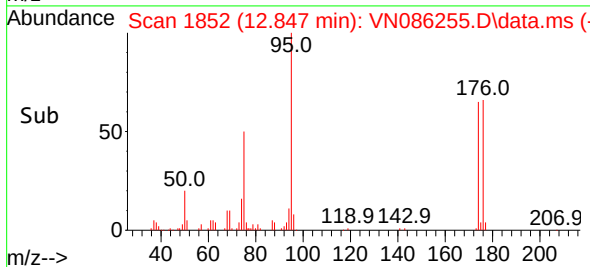
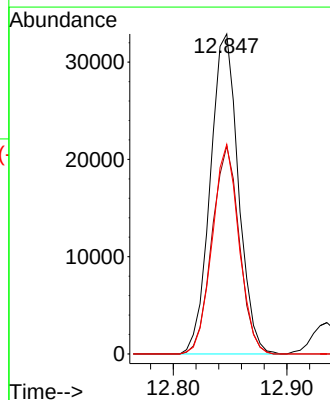
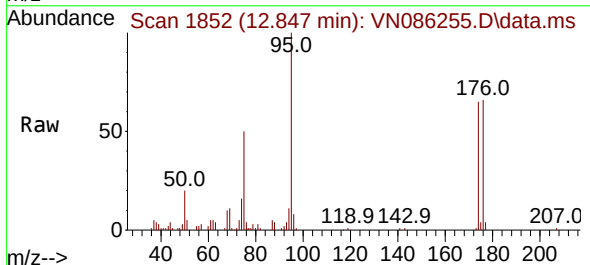
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

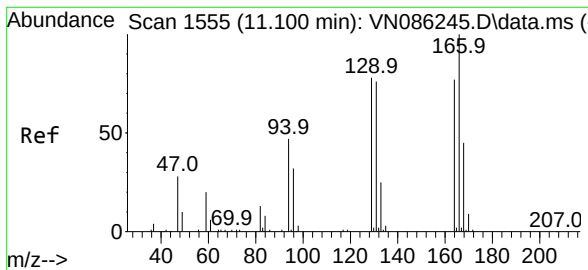
Tgt Ion: 43 Resp: 158086
Ion Ratio Lower Upper
43 100
58 55.9 45.3 67.9
57 19.1 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 29.786 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 95 Resp: 56553
Ion Ratio Lower Upper
95 100
174 63.1 52.7 79.1
176 62.3 49.8 74.8

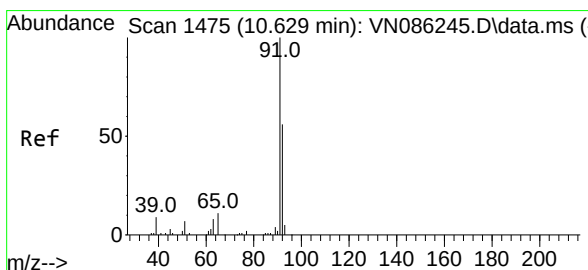
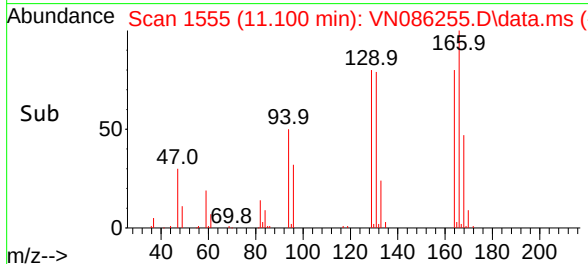
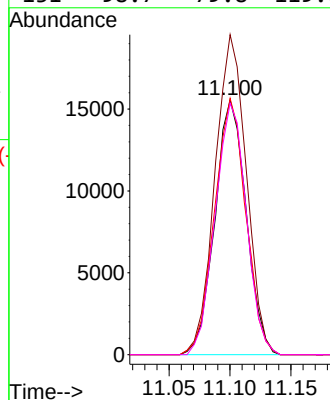
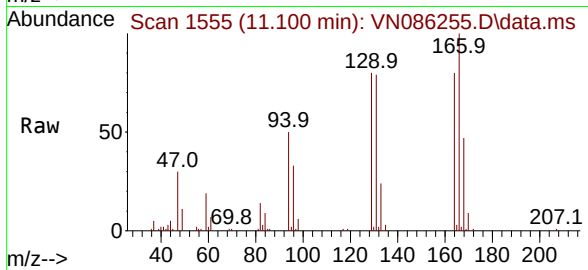




#61
Tetrachloroethene
Concen: 19.697 ug/l
RT: 11.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

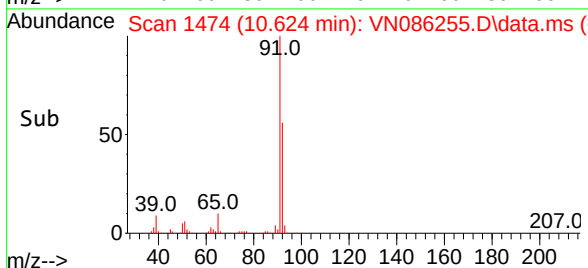
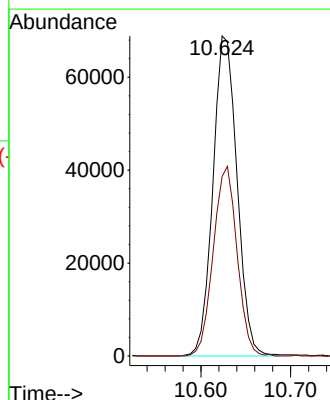
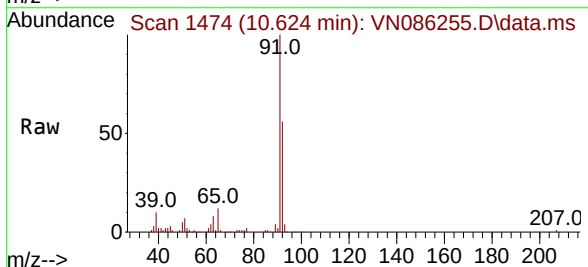
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

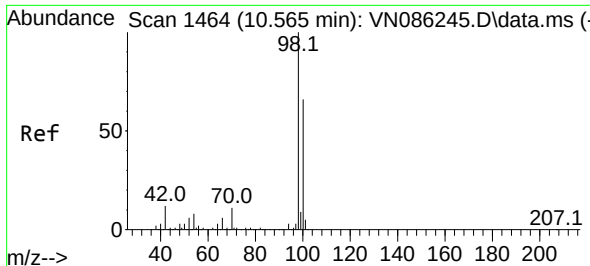
Tgt Ion:164 Resp: 27738
Ion Ratio Lower Upper
164 100
166 125.7 104.5 156.7
129 100.7 81.7 122.5
131 98.7 79.8 119.6



#62
Toluene
Concen: 20.118 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 91 Resp: 128682
Ion Ratio Lower Upper
91 100
92 58.2 46.8 70.2

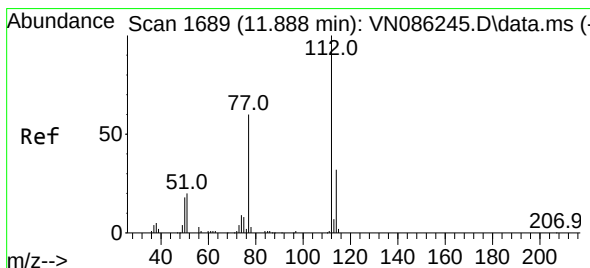
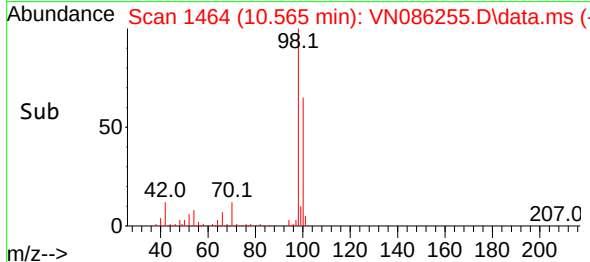
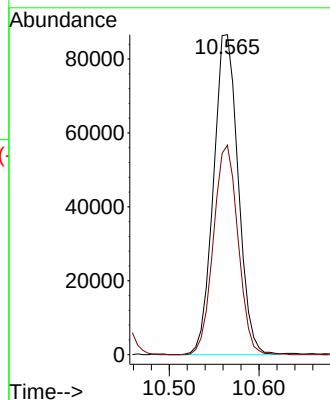
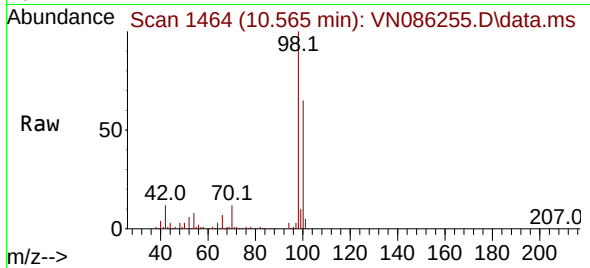




#63
Toluene-d8
Concen: 30.752 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

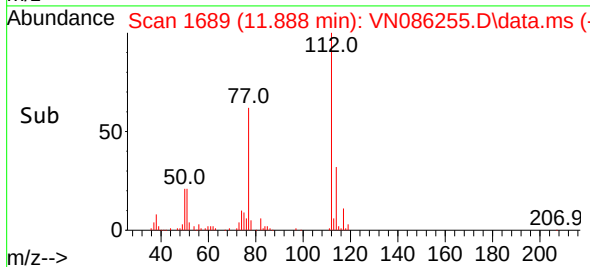
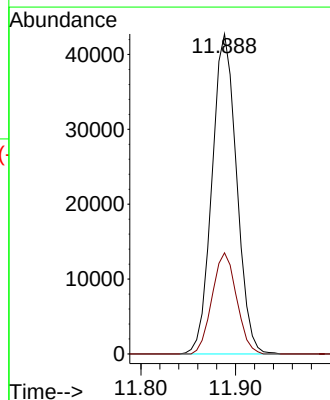
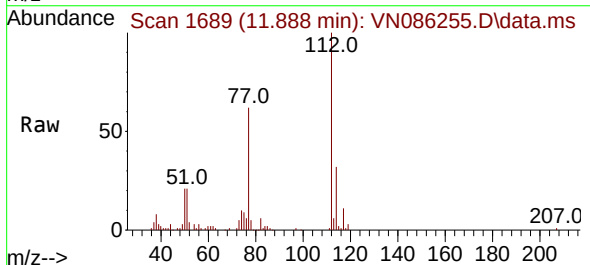
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

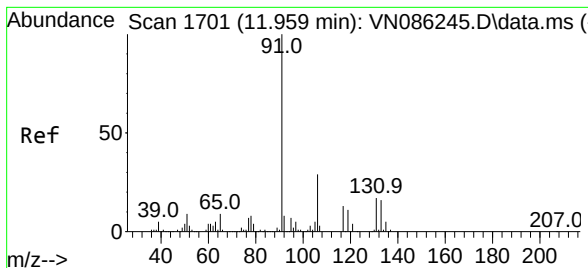
Tgt Ion: 98 Resp: 165558
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5



#64
Chlorobenzene
Concen: 19.736 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 112 Resp: 77123
Ion Ratio Lower Upper
112 100
114 31.6 25.8 38.6





#65

1,1,1,2-Tetrachloroethane

Concen: 20.177 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

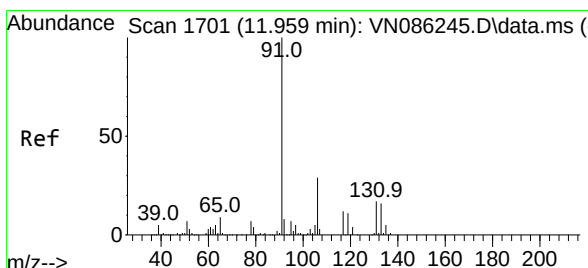
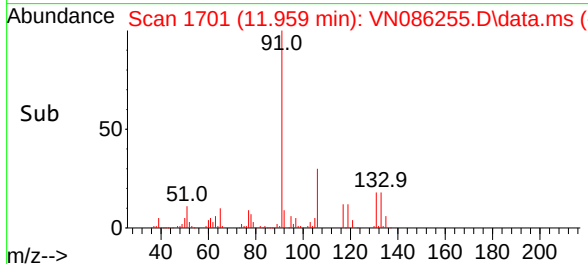
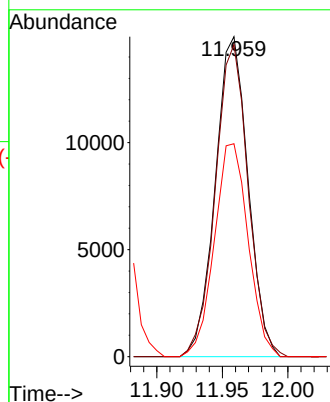
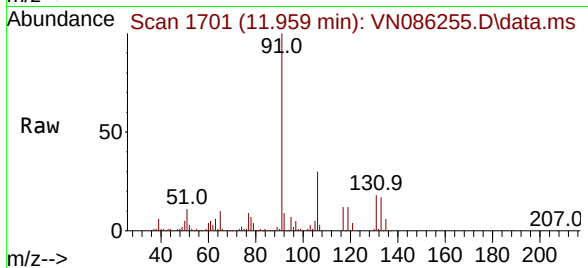
Tgt Ion:131 Resp: 26021

Ion Ratio Lower Upper

131 100

133 97.4 0.0 190.4

119 68.5 0.0 135.6



#66

Ethyl Benzene

Concen: 19.639 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086255.D

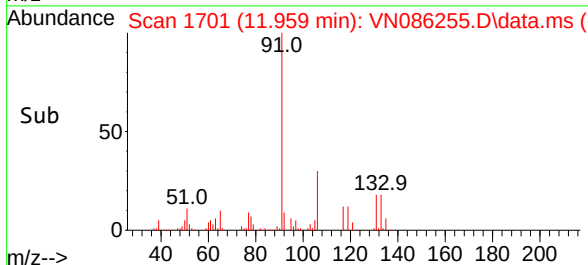
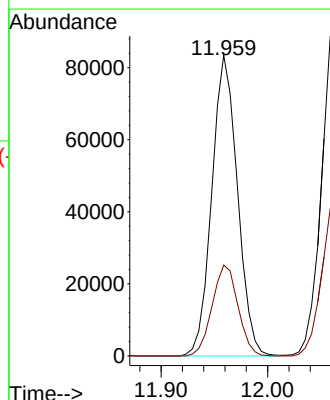
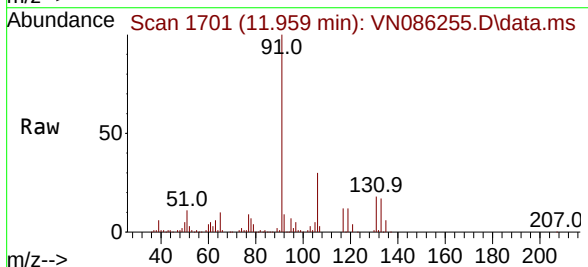
Acq: 11 Apr 2025 17:28

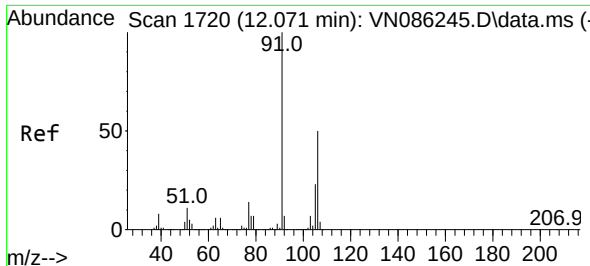
Tgt Ion: 91 Resp: 139309

Ion Ratio Lower Upper

91 100

106 30.2 23.4 35.0

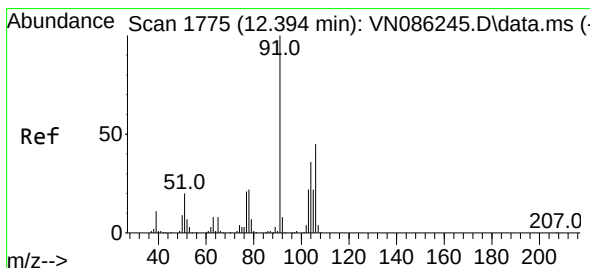
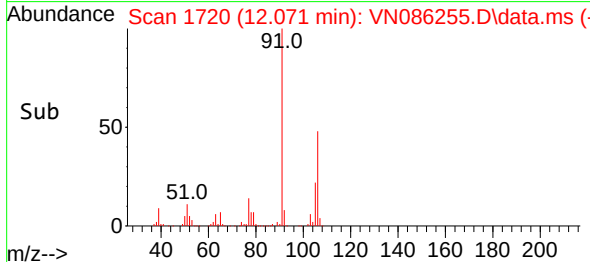
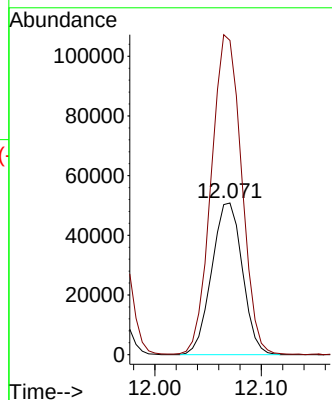
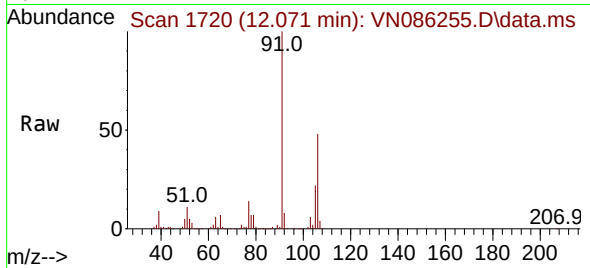




#67
m/p-Xylenes
Concen: 38.563 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

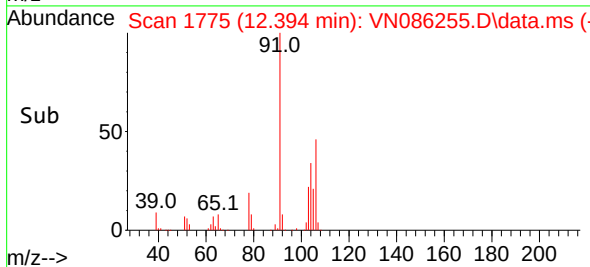
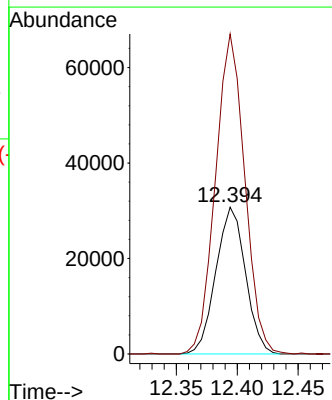
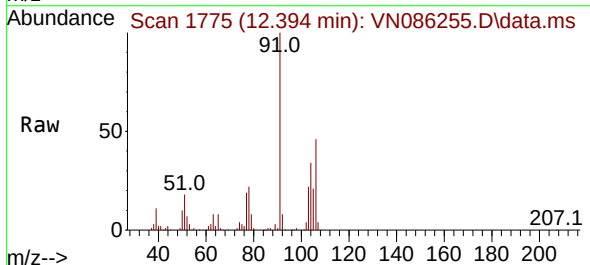
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

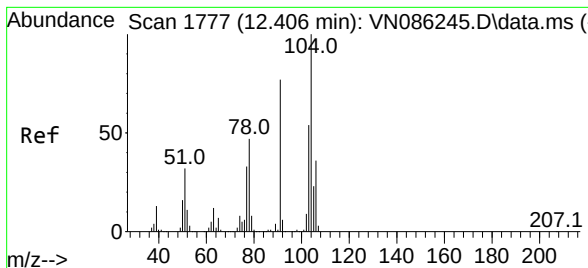
Tgt Ion:106 Resp: 101714
Ion Ratio Lower Upper
106 100
91 208.9 164.5 246.7



#68
o-Xylene
Concen: 20.058 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:106 Resp: 52037
Ion Ratio Lower Upper
106 100
91 215.7 109.8 329.4





#69

Styrene

Concen: 19.187 ug/l

RT: 12.406 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

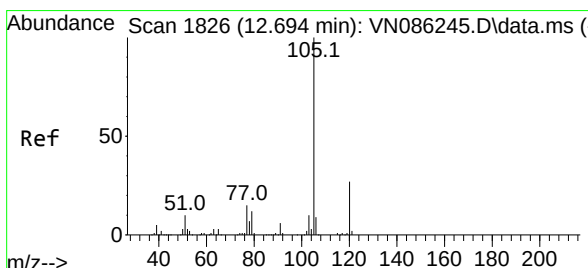
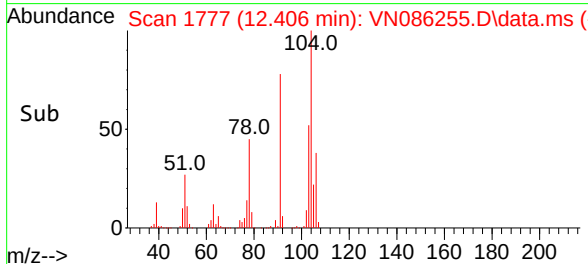
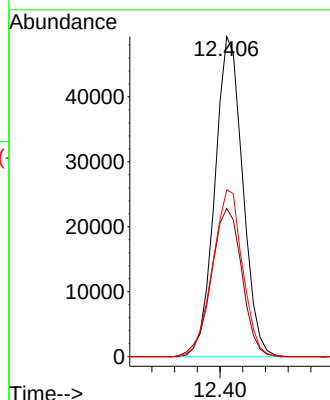
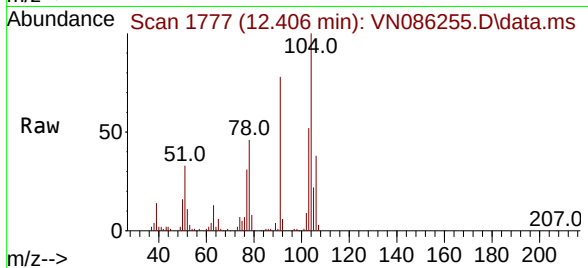
Tgt Ion:104 Resp: 83949

Ion Ratio Lower Upper

104 100

78 50.8 41.4 62.0

103 56.2 44.2 66.4



#70

Isopropylbenzene

Concen: 19.260 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086255.D

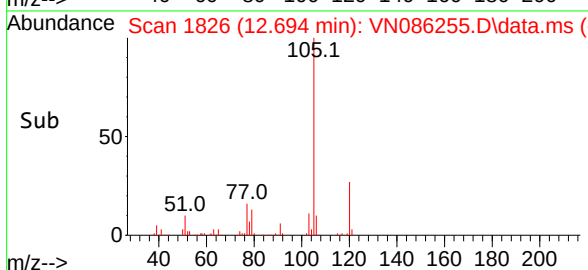
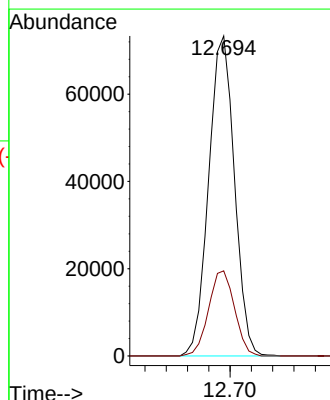
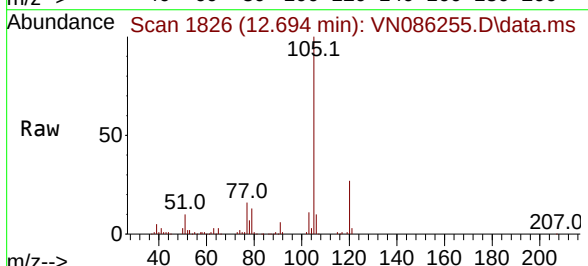
Acq: 11 Apr 2025 17:28

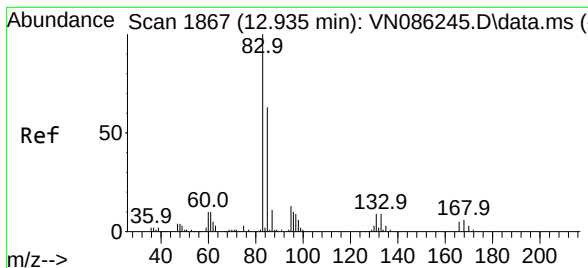
Tgt Ion:105 Resp: 123201

Ion Ratio Lower Upper

105 100

120 26.7 18.3 34.1

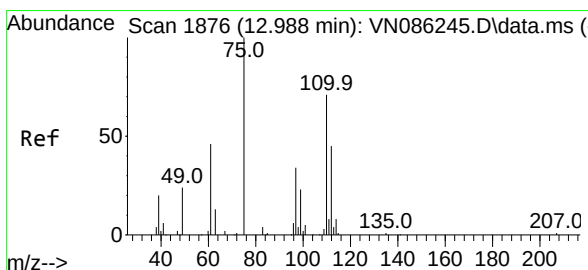
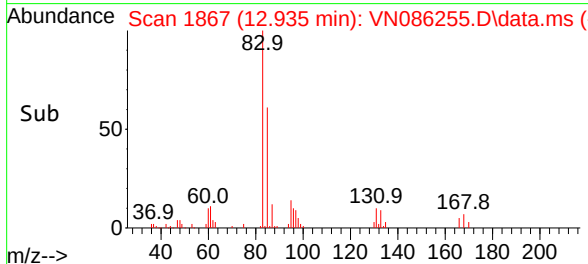
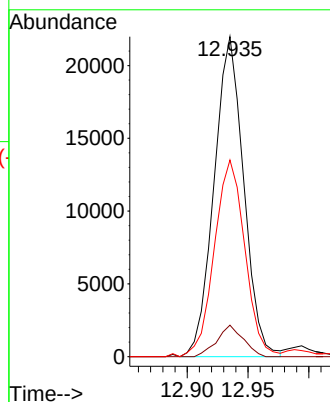
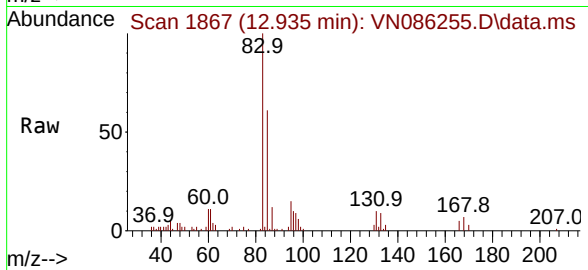




#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.449 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

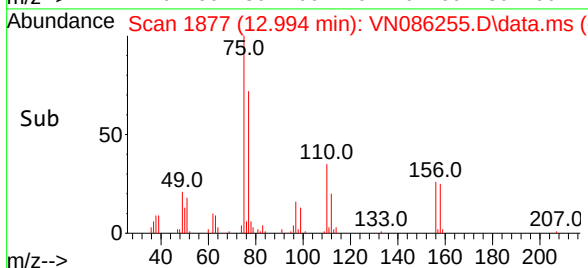
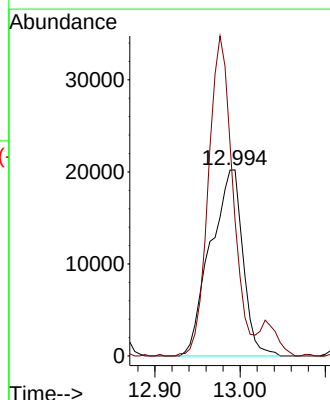
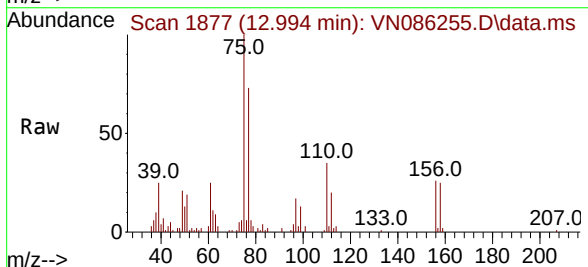
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

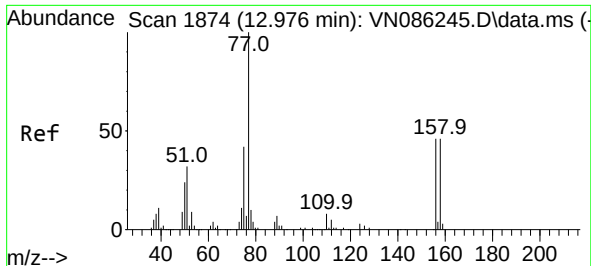
Tgt Ion: 83 Resp: 37233
 Ion Ratio Lower Upper
 83 100
 131 8.7 4.8 14.3
 85 63.2 32.3 96.8



#72
 1,2,3-Trichloropropane
 Concen: 28.285 ug/l
 RT: 12.994 min Scan# 1877
 Delta R.T. 0.006 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

Tgt Ion: 75 Resp: 53607
 Ion Ratio Lower Upper
 75 100
 77 129.8 0.0 380.0

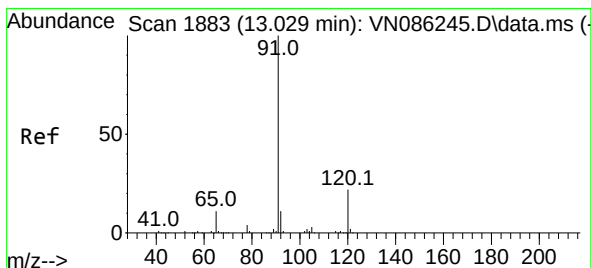
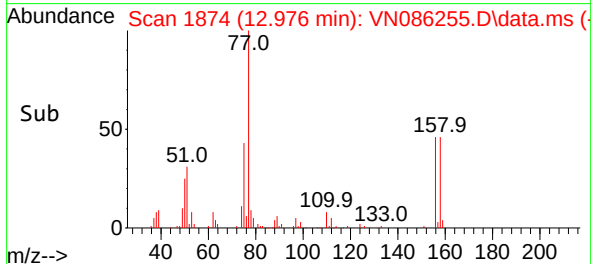
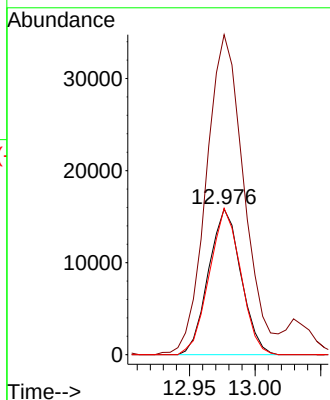
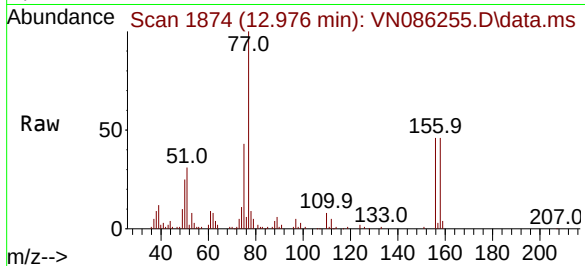




#73
Bromobenzene
Concen: 19.245 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

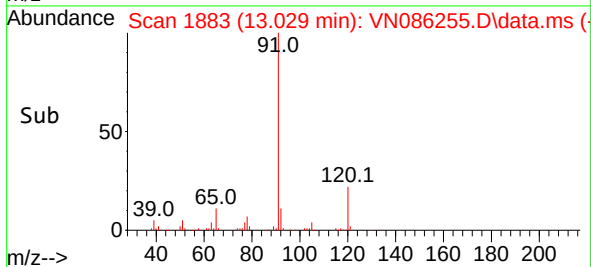
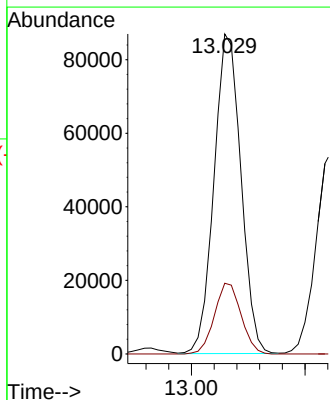
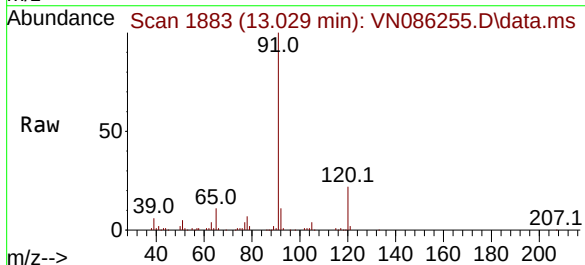
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

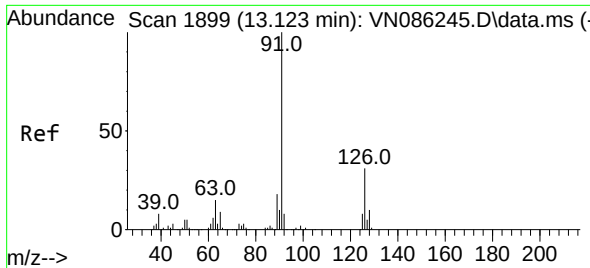
Tgt Ion:156 Resp: 27272
Ion Ratio Lower Upper
156 100
77 255.1 0.0 505.2
158 97.0 0.0 195.0



#74
n-propylbenzene
Concen: 18.944 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 91 Resp: 143093
Ion Ratio Lower Upper
91 100
120 21.9 0.0 44.0

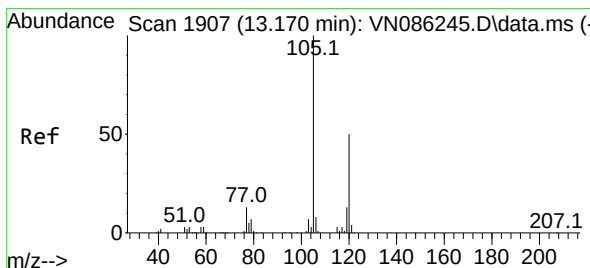
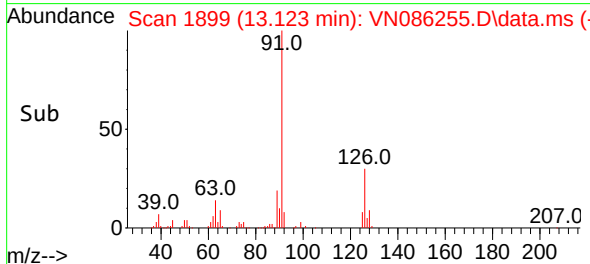
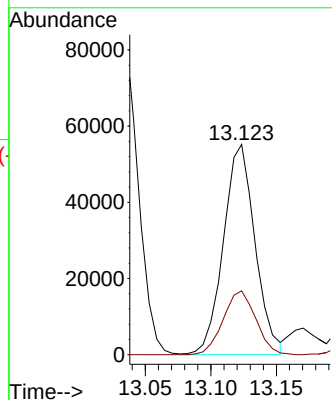
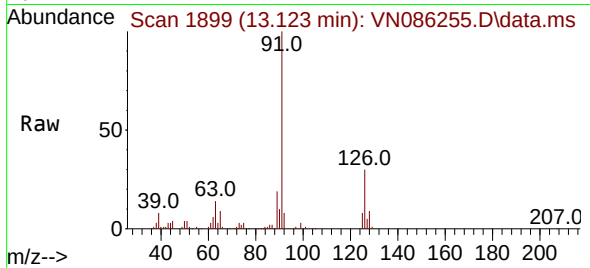




#75
2-Chlorotoluene
Concen: 19.514 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

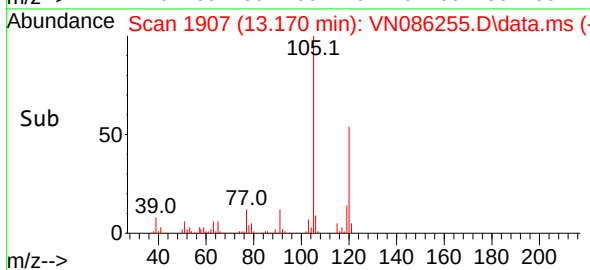
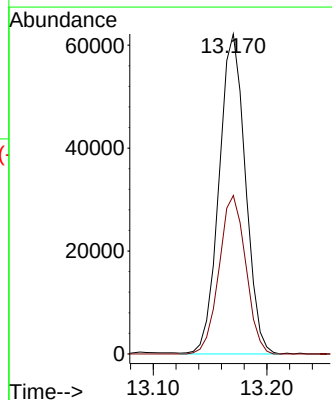
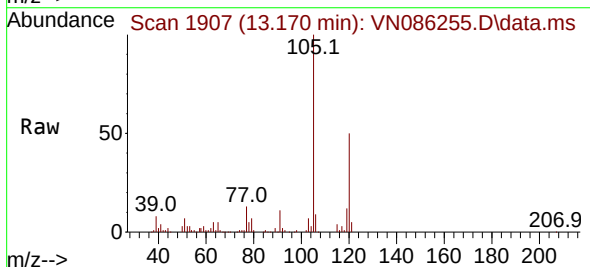
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

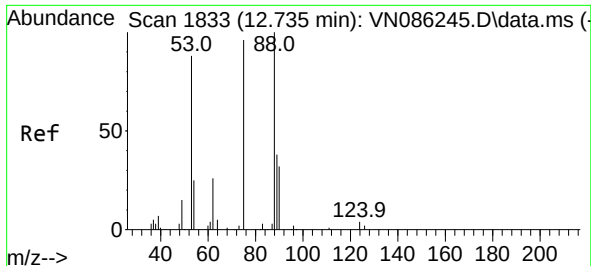
Tgt Ion: 91 Resp: 92645
Ion Ratio Lower Upper
91 100
126 31.3 0.0 63.4



#76
1,3,5-Trimethylbenzene
Concen: 19.025 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 105 Resp: 99973
Ion Ratio Lower Upper
105 100
120 50.0 0.0 98.0

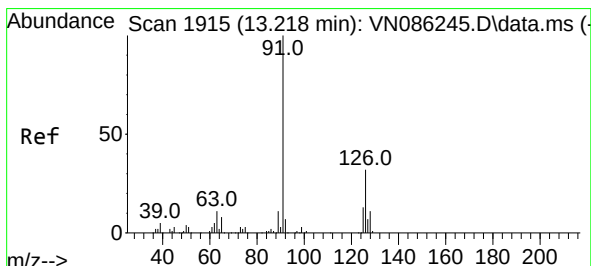
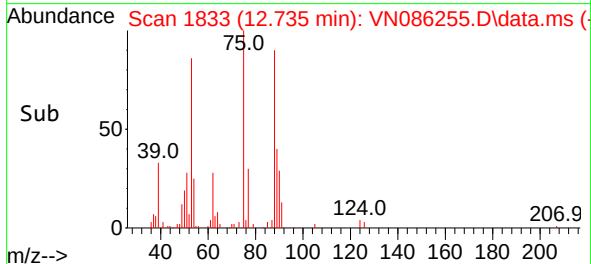
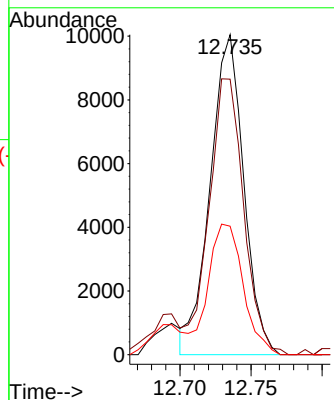
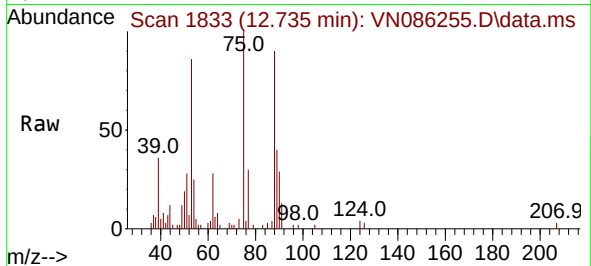




#77
t-1,4-Dichloro-2-butene
Concen: 18.869 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

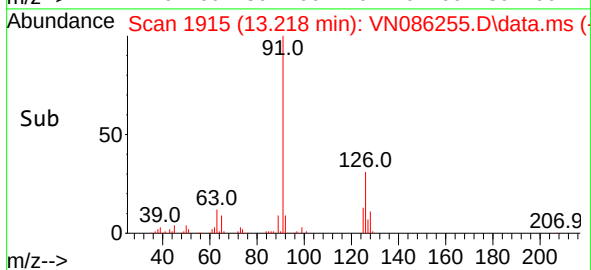
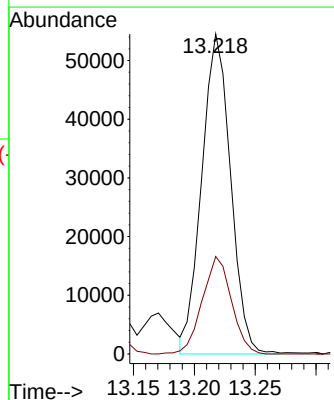
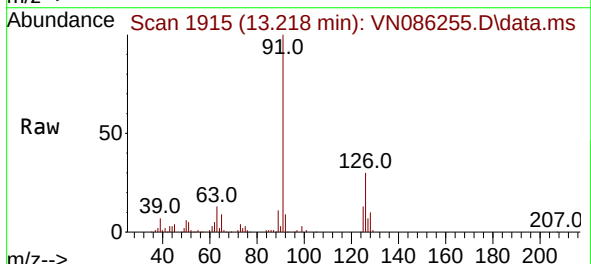
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

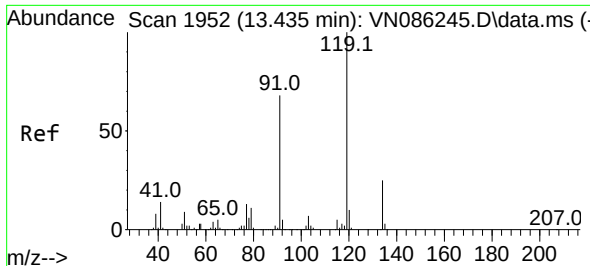
Tgt Ion: 75 Resp: 16490
Ion Ratio Lower Upper
75 100
53 84.4 46.4 139.2
89 40.2 22.5 67.5



#78
4-Chlorotoluene
Concen: 18.983 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 91 Resp: 90011
Ion Ratio Lower Upper
91 100
126 30.7 0.0 63.2

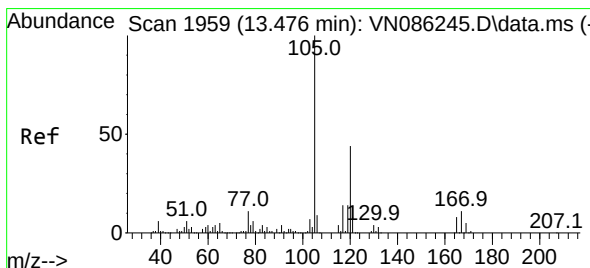
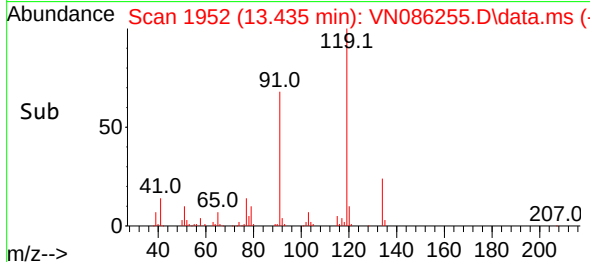
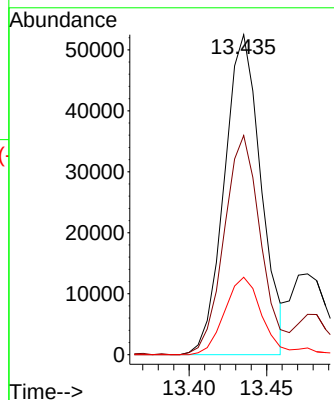
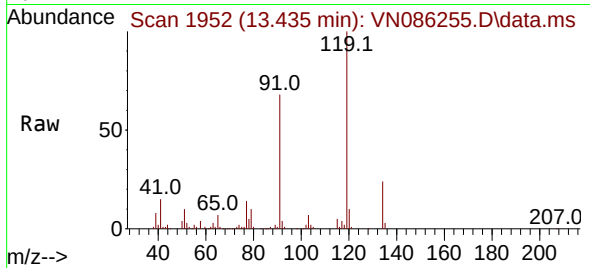




#79
tert-butylbenzene
Concen: 19.039 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

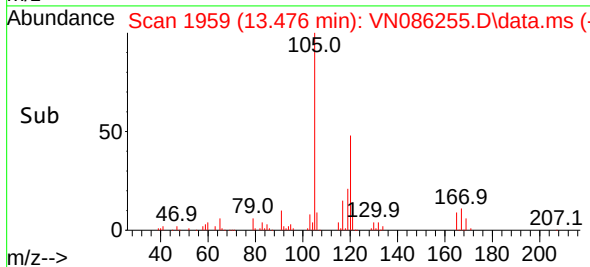
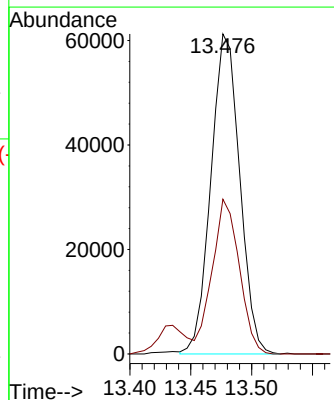
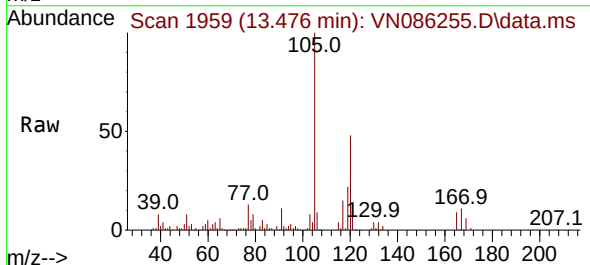
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

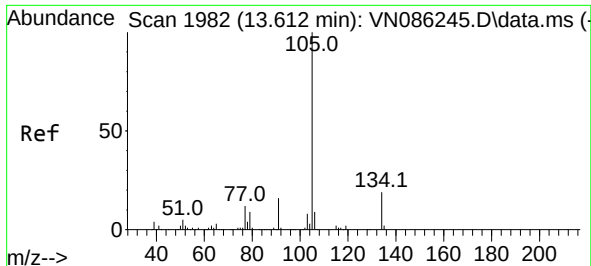
Tgt Ion:119 Resp: 86567
Ion Ratio Lower Upper
119 100
91 68.8 0.0 136.6
134 24.1 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 18.911 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:105 Resp: 100765
Ion Ratio Lower Upper
105 100
120 45.4 0.0 91.0

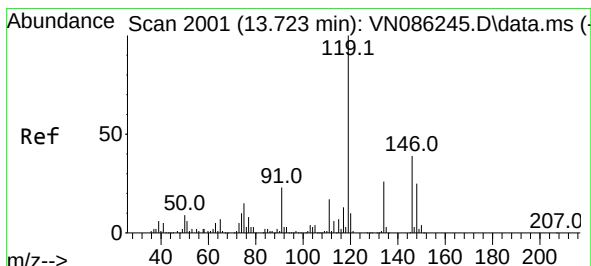
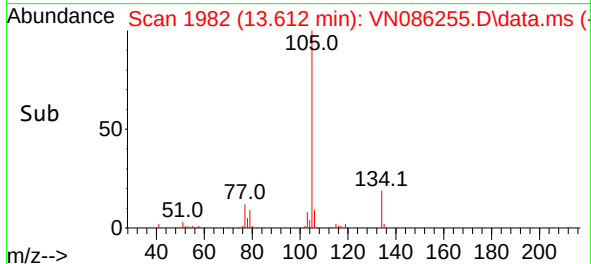
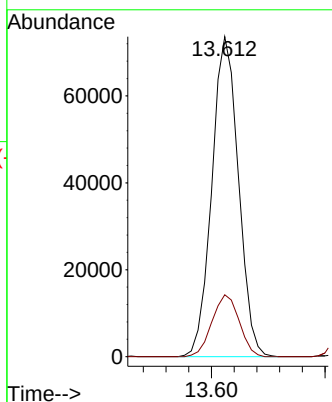
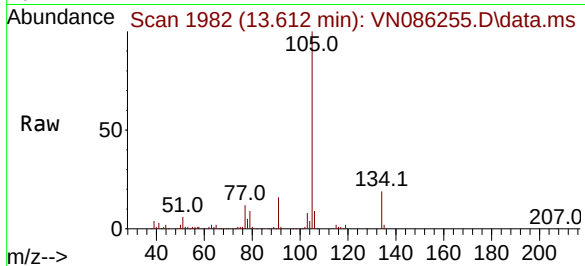




#81
 sec-Butylbenzene
 Concen: 18.880 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

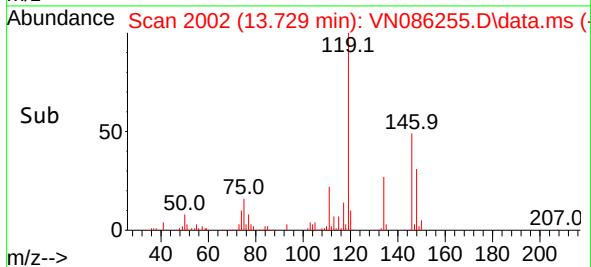
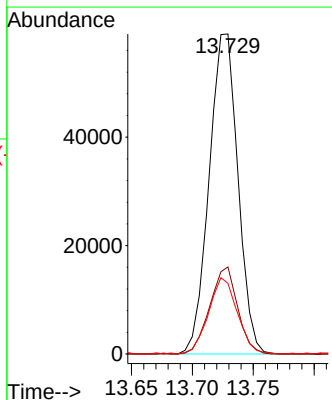
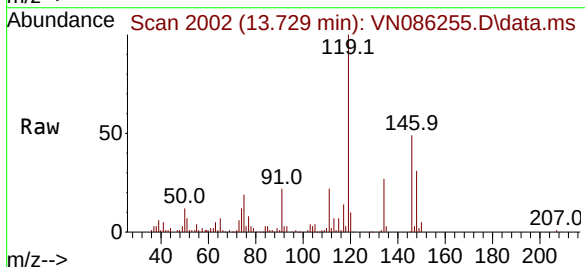
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

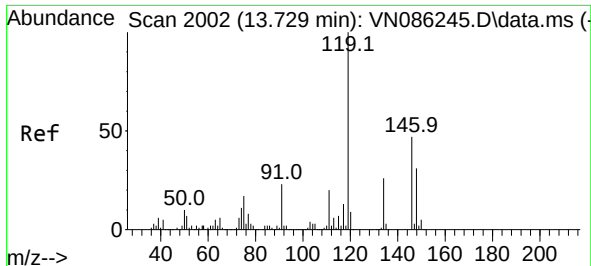
Tgt Ion:105 Resp: 119744
 Ion Ratio Lower Upper
 105 100
 134 19.8 0.0 38.6



#82
 p-Isopropyltoluene
 Concen: 18.394 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN086255.D
 Acq: 11 Apr 2025 17:28

Tgt Ion:119 Resp: 97324
 Ion Ratio Lower Upper
 119 100
 134 26.2 0.0 51.6
 91 23.8 0.0 48.2

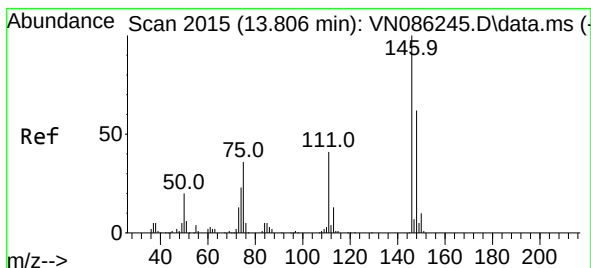
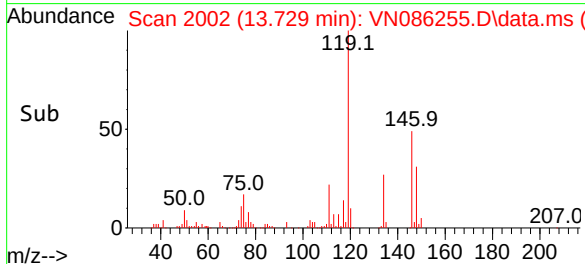
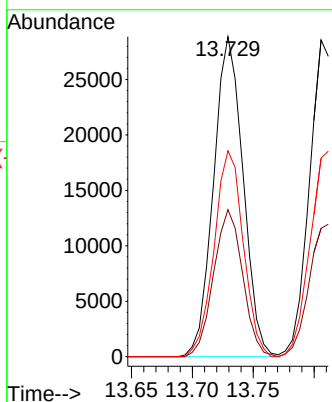
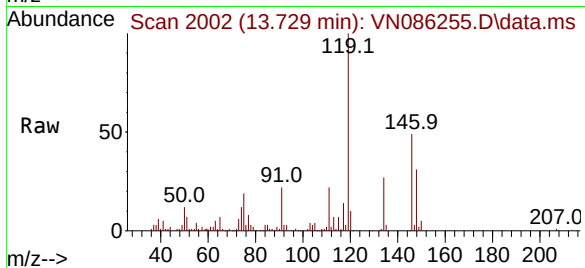




#83
1,3-Dichlorobenzene
Concen: 18.499 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

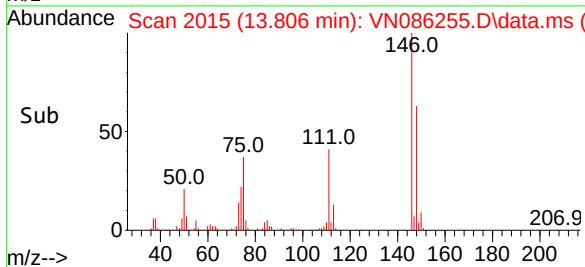
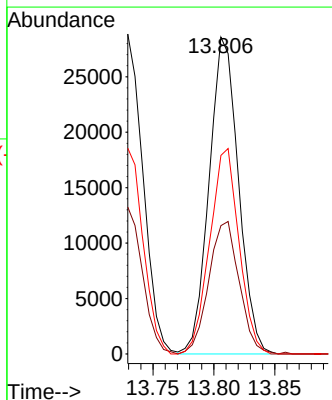
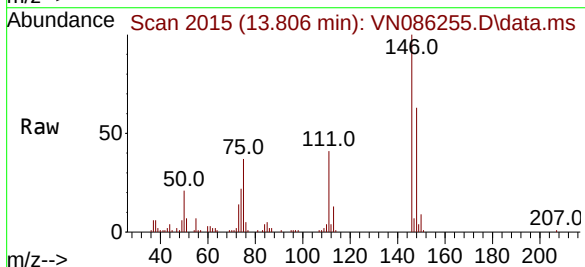
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

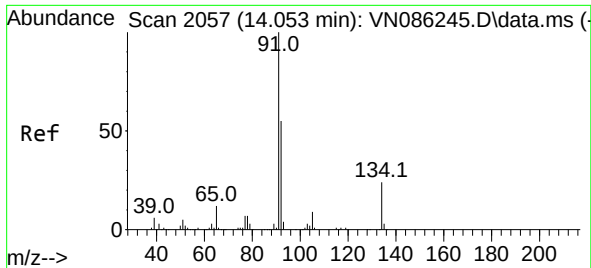
Tgt Ion:146 Resp: 48725
Ion Ratio Lower Upper
146 100
111 45.1 21.7 65.1
148 63.5 32.3 96.8



#84
1,4-Dichlorobenzene
Concen: 18.098 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:146 Resp: 47819
Ion Ratio Lower Upper
146 100
111 43.4 20.8 62.4
148 64.8 31.9 95.5

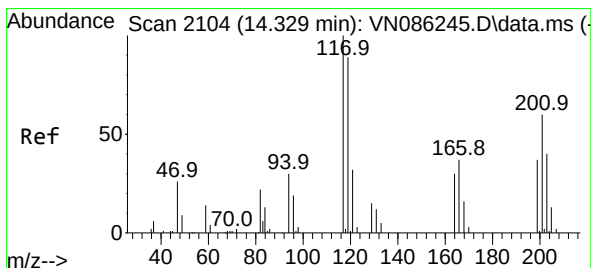
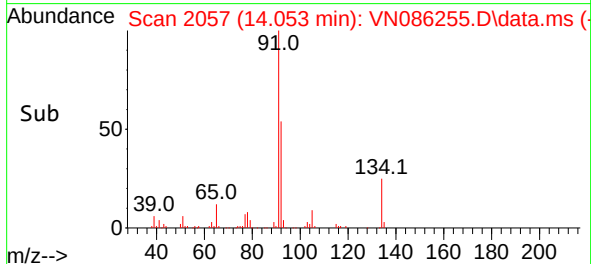
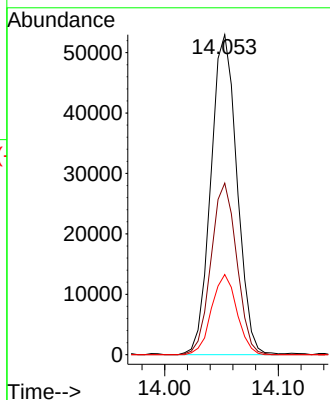
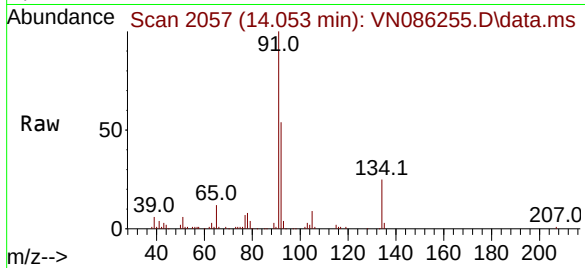




#85
n-Butylbenzene
Concen: 17.764 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

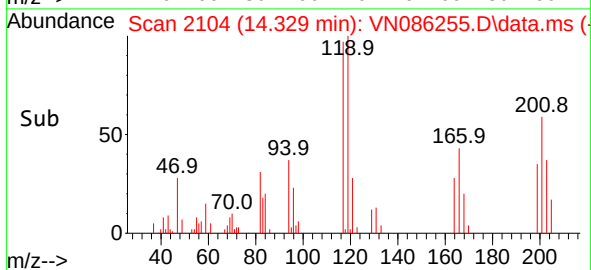
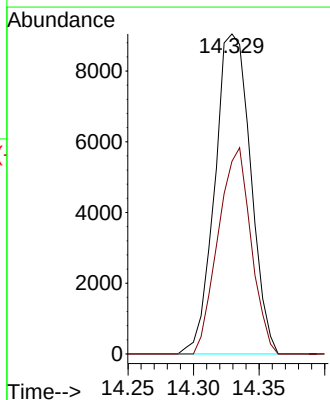
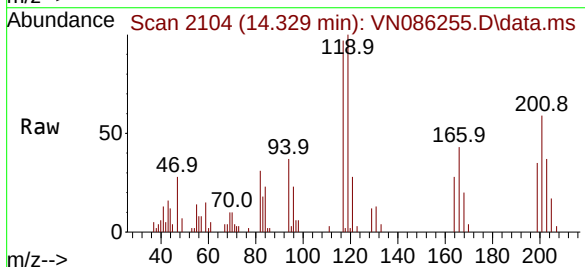
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

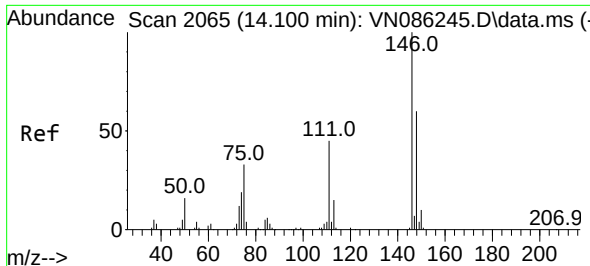
Tgt Ion: 91 Resp: 84791
Ion Ratio Lower Upper
91 100
92 52.7 0.0 109.4
134 24.3 0.0 48.2



#86
Hexachloroethane
Concen: 19.231 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion: 117 Resp: 17164
Ion Ratio Lower Upper
117 100
201 59.2 30.9 92.8

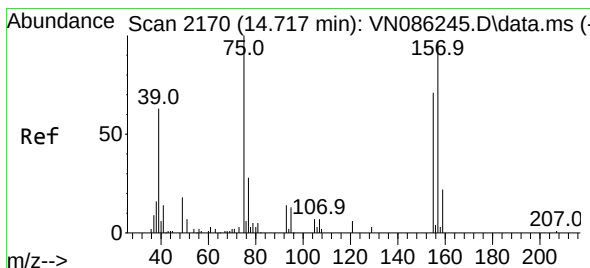
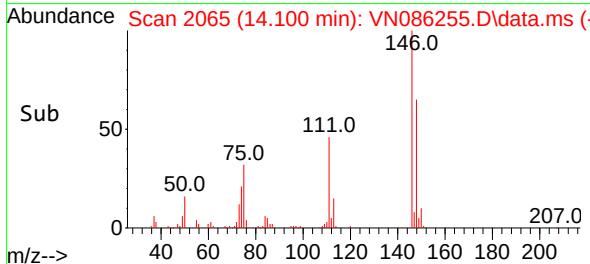
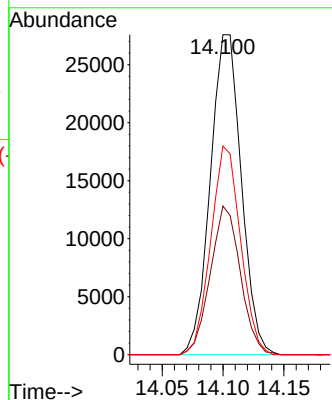
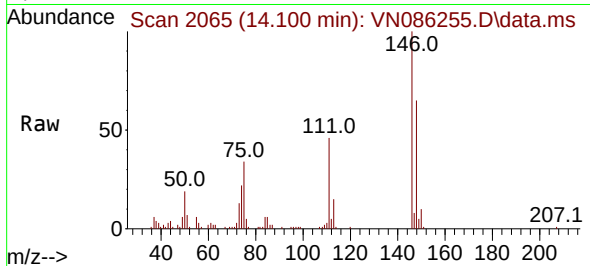




#87
1,2-Dichlorobenzene
Concen: 18.791 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

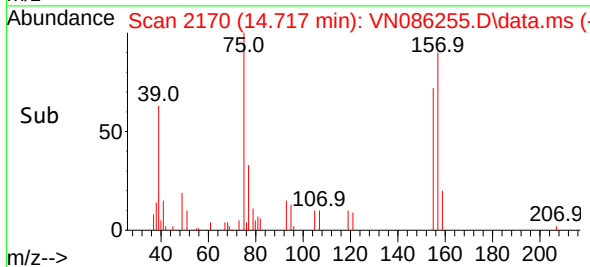
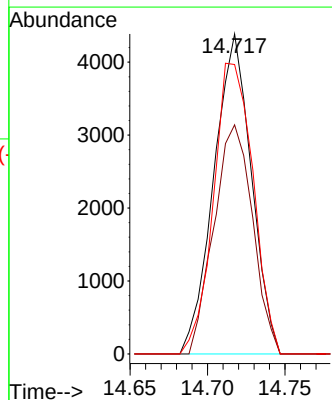
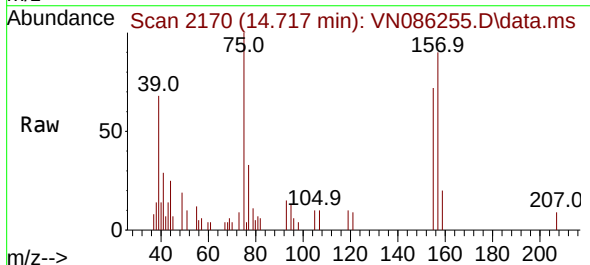
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

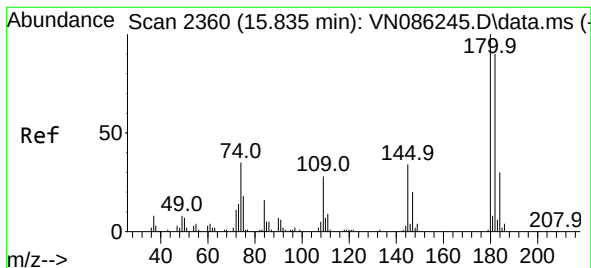
Tgt Ion:	146	Resp:	48868
Ion Ratio	Lower	Upper	
146	100		
111	45.1	22.7	68.0
148	62.7	31.8	95.3



#88
1,2-Dibromo-3-Chloropropane
Concen: 17.808 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:	75	Resp:	7385
Ion Ratio	Lower	Upper	
75	100		
155	73.8	60.3	90.5
157	95.7	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 16.646 ug/l

RT: 15.835 min Scan# 21063

Delta R.T. 0.000 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

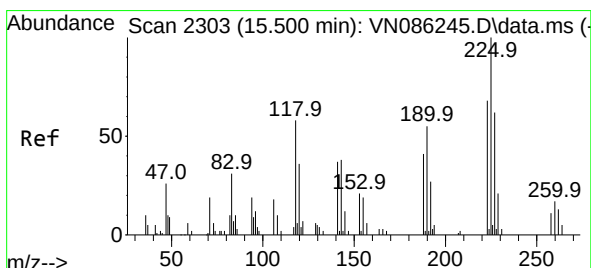
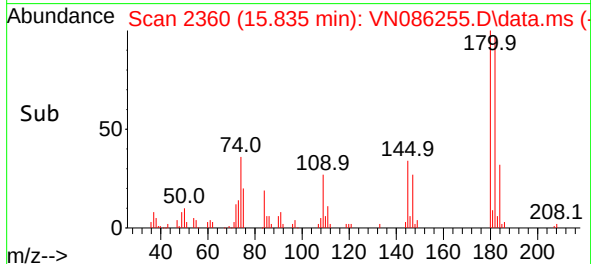
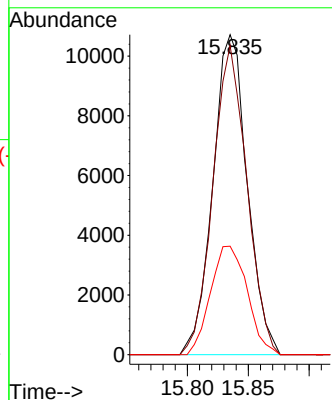
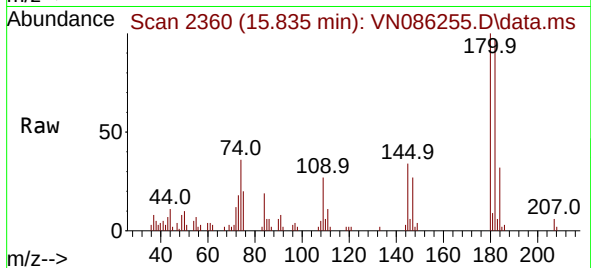
Tgt Ion:180 Resp: 21063

Ion Ratio Lower Upper

180 100

182 95.2 75.1 112.7

145 36.2 27.1 40.7



#90

Hexachlorobutadiene

Concen: 14.656 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086255.D

Acq: 11 Apr 2025 17:28

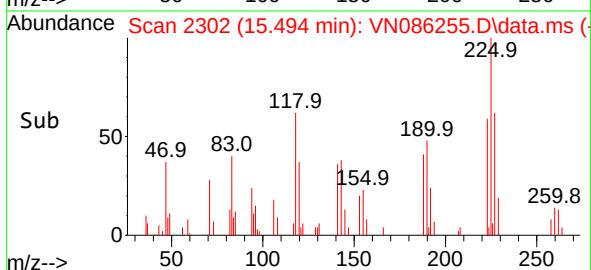
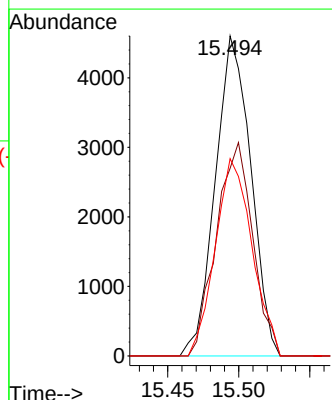
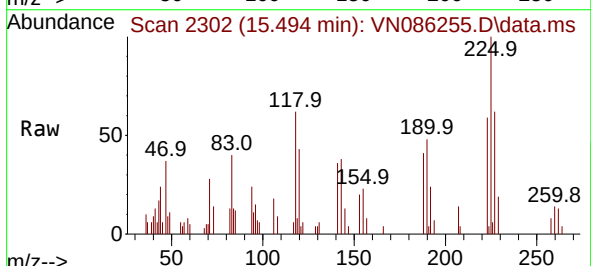
Tgt Ion:225 Resp: 8007

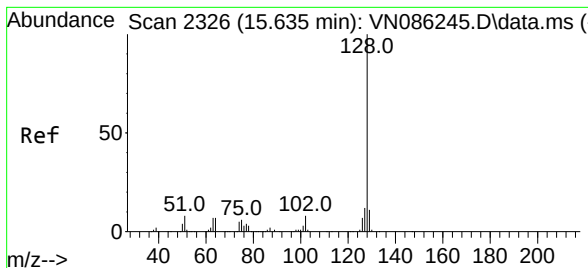
Ion Ratio Lower Upper

225 100

223 68.3 0.0 130.0

227 63.9 0.0 123.2

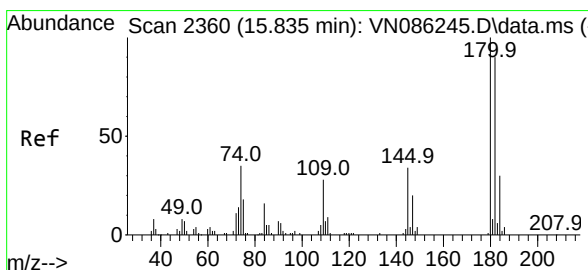
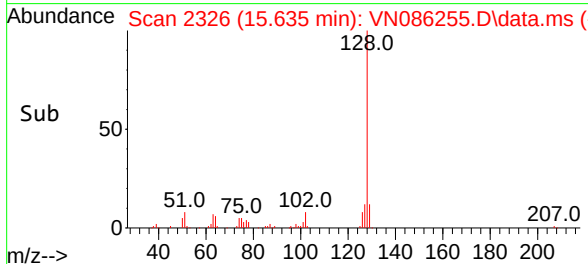
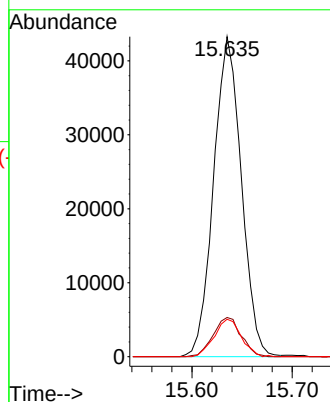
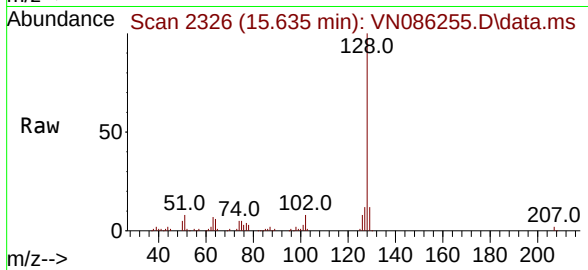




#91
Naphthalene
Concen: 16.677 ug/l
RT: 15.635 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion:128	Resp:	83203
Ion Ratio	Lower	Upper
128	100	
127	12.4	10.2 15.2
129	11.3	8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 16.646 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086255.D
Acq: 11 Apr 2025 17:28

Tgt Ion:180	Resp:	21063
Ion Ratio	Lower	Upper
180	100	
182	95.2	0.0 187.8
145	36.2	0.0 67.8

