

**DATA PACKAGE
VOLATILE ORGANICS**

PROJECT NAME : CTO WE13

**TETRA TECH NUS, INC.
661 Andersen Drive
Suite 200
Pittsburgh, PA - 15220-2745
Phone No: 412-921-7090**

**ORDER ID : Q1249
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1249

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1249-01

Client Sample Number

BP-VPB-192-GW-460-462

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: 2/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project : Ernie Wu

Chemtech Project # Q1249

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

1 Water sample was received on 01/30/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. The analysis of VOCMS Group1 was based on method 8260D.

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 met criteria .

The Blank Spike met requirements for all samples .

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 File ID VN085645.D met the requirements except for Bromomethane, Chloroethane, m/p-Xylenes, Methylcyclohexane, o-Xylene, Styrene, Toluene and Vinyl Chloride failing high but no positive hit in associated sample therefore no corrective action taken.

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)."

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

Trip Blank was not provided with this set of samples.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1249

MATRIX: Water

METHOD: 8260D

		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 File ID VN085645.D met the requirements except for Bromomethane,Chloroethane,m/p-Xylenes,Methylcyclohexane,o- Xylene,Styrene,Toluene and Vinyl Chloride failing high but no positive hit in associated sample therefore no corrective action taken.			✓
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.			✓
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 met requirements for all samples . The Blank Spike Duplicate met requirements for all samples.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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

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

Trip Blank was not provided with this set of samples.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1249

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: 02/11/2025

LAB CHRONICLE

OrderID:	Q1249	OrderDate:	1/31/2025 10:38:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	N51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1249-01	BP-VPB-192-GW-460-462	Water	VOCMS Group1	8260-Low	01/29/25		02/04/25	01/30/25

Hit Summary Sheet
SW-846

SDG No.: Q1249
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-192-GW-460-462								
Q1249-01	BP-VPB-192-GW-4 Water	Acetone		5.50		1.40	3.80	5.00	ug/L
		Total Voc :		5.50					
		Total Concentration:		5.50					



QC SUMMARY

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Surrogate Summary

SDG No.: Q1249

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1249-01	BP-VPB-192-GW-460-462	1,2-Dichloroethane-d4	50	45.2	90	81	118
		Dibromofluoromethane	50	49.2	98	80	119
		Toluene-d8	50	49.4	99	89	112
		4-Bromofluorobenzene	50	45.6	91	85	114
VN0204WBL01	VN0204WBL01	1,2-Dichloroethane-d4	50	49.9	100	81	118
		Dibromofluoromethane	50	50.3	101	80	119
		Toluene-d8	50	49.2	98	89	112
		4-Bromofluorobenzene	50	44.2	88	85	114
VN0204WBS02	VN0204WBS02	1,2-Dichloroethane-d4	50	45.2	90	81	118
		Dibromofluoromethane	50	48.7	97	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
VN0204WBSD0	VN0204WBSD02	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	52.2	104	80	119
		Toluene-d8	50	48.0	96	89	112
		4-Bromofluorobenzene	50	47.9	96	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1249

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085651.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0204WBS02	Chloromethane	20	20.6	ug/L	103			50	139	
	Vinyl chloride	20	25.2	ug/L	126			58	137	
	Bromomethane	20	24.8	ug/L	124			53	141	
	Chloroethane	20	24.7	ug/L	124			60	138	
	Trichlorofluoromethane	20	20.6	ug/L	103			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/L	108			70	136	
	1,1-Dichloroethene	20	21.6	ug/L	108			71	131	
	Acetone	100	93.0	ug/L	93			39	160	
	Carbon disulfide	20	21.6	ug/L	108			64	133	
	Methyl tert-butyl Ether	20	20.3	ug/L	102			71	124	
	Methylene Chloride	20	21.3	ug/L	106			74	124	
	trans-1,2-Dichloroethene	20	21.6	ug/L	108			75	124	
	1,1-Dichloroethane	20	19.8	ug/L	99			77	125	
	2-Butanone	100	99.4	ug/L	99			56	143	
	Carbon Tetrachloride	20	19.1	ug/L	96			72	136	
	cis-1,2-Dichloroethene	20	21.0	ug/L	105			78	123	
	Chloroform	20	20.1	ug/L	101			79	124	
	1,1,1-Trichloroethane	20	20.0	ug/L	100			74	131	
	Methylcyclohexane	20	20.1	ug/L	101			72	132	
	Benzene	20	20.6	ug/L	103			79	120	
	1,2-Dichloroethane	20	18.2	ug/L	91			73	128	
	Trichloroethene	20	19.8	ug/L	99			79	123	
	1,2-Dichloropropane	20	19.7	ug/L	99			78	122	
	Bromodichloromethane	20	19.3	ug/L	97			79	125	
	4-Methyl-2-Pentanone	100	98.0	ug/L	98			67	130	
	Toluene	20	21.7	ug/L	109			80	121	
	t-1,3-Dichloropropene	20	19.6	ug/L	98			73	127	
	cis-1,3-Dichloropropene	20	20.4	ug/L	102			75	124	
	1,1,2-Trichloroethane	20	20.9	ug/L	104			80	119	
	2-Hexanone	100	100	ug/L	100			57	139	
	Dibromochloromethane	20	19.9	ug/L	100			74	126	
	Tetrachloroethene	20	21.2	ug/L	106			74	129	
	Chlorobenzene	20	20.7	ug/L	104			82	118	
	Ethyl Benzene	20	20.6	ug/L	103			79	121	
	m/p-Xylenes	40	43.4	ug/L	109			80	121	
	o-Xylene	20	21.1	ug/L	106			78	122	
	Styrene	20	21.9	ug/L	110			78	123	
	Bromoform	20	21.2	ug/L	106			66	130	
	Isopropylbenzene	20	20.8	ug/L	104			72	131	
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105			71	121	
	1,3-Dichlorobenzene	20	19.9	ug/L	100			80	119	
	1,4-Dichlorobenzene	20	19.4	ug/L	97			79	118	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1249

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN085655.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0204WBSD02	Chloromethane	20	17.2	ug/L	86	18		50	139	20
	Vinyl chloride	20	20.6	ug/L	103	20		58	137	20
	Bromomethane	20	22.4	ug/L	112	10		53	141	20
	Chloroethane	20	21.4	ug/L	107	15		60	138	20
	Trichlorofluoromethane	20	21.0	ug/L	105	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/L	104	4		70	136	20
	1,1-Dichloroethene	20	21.7	ug/L	109	1		71	131	20
	Acetone	100	92.8	ug/L	93	0		39	160	20
	Carbon disulfide	20	20.4	ug/L	102	6		64	133	20
	Methyl tert-butyl Ether	20	21.8	ug/L	109	7		71	124	20
	Methylene Chloride	20	20.5	ug/L	103	3		74	124	20
	trans-1,2-Dichloroethene	20	20.9	ug/L	104	4		75	124	20
	1,1-Dichloroethane	20	19.3	ug/L	97	2		77	125	20
	2-Butanone	100	98.5	ug/L	99	0		56	143	20
	Carbon Tetrachloride	20	21.3	ug/L	106	10		72	136	20
	cis-1,2-Dichloroethene	20	20.8	ug/L	104	1		78	123	20
	Chloroform	20	19.7	ug/L	99	2		79	124	20
	1,1,1-Trichloroethane	20	20.1	ug/L	101	1		74	131	20
	Methylcyclohexane	20	20.7	ug/L	104	3		72	132	20
	Benzene	20	22.2	ug/L	111	7		79	120	20
	1,2-Dichloroethane	20	18.4	ug/L	92	1		73	128	20
	Trichloroethene	20	20.3	ug/L	102	3		79	123	20
	1,2-Dichloropropane	20	18.5	ug/L	93	6		78	122	20
	Bromodichloromethane	20	19.0	ug/L	95	2		79	125	20
	4-Methyl-2-Pentanone	100	96.9	ug/L	97	1		67	130	20
	Toluene	20	21.5	ug/L	108	1		80	121	20
	t-1,3-Dichloropropene	20	20.3	ug/L	102	4		73	127	20
	cis-1,3-Dichloropropene	20	20.3	ug/L	102	0		75	124	20
	1,1,2-Trichloroethane	20	21.0	ug/L	105	1		80	119	20
	2-Hexanone	100	100	ug/L	100	0		57	139	20
	Dibromochloromethane	20	19.8	ug/L	99	1		74	126	20
	Tetrachloroethene	20	20.5	ug/L	103	3		74	129	20
	Chlorobenzene	20	20.7	ug/L	104	0		82	118	20
	Ethyl Benzene	20	21.4	ug/L	107	4		79	121	20
	m/p-Xylenes	40	45.4	ug/L	114	4		80	121	20
	o-Xylene	20	23.0	ug/L	115	8		78	122	20
	Styrene	20	23.1	ug/L	116	5		78	123	20
	Bromoform	20	21.2	ug/L	106	0		66	130	20
	Isopropylbenzene	20	23.4	ug/L	117	12		72	131	20
	1,1,2,2-Tetrachloroethane	20	20.1	ug/L	101	4		71	121	20
	1,3-Dichlorobenzene	20	20.0	ug/L	100	0		80	119	20
	1,4-Dichlorobenzene	20	19.5	ug/L	98	1		79	118	20
	1,2-Dichlorobenzene	20	20.3	ug/L	102	4		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0204WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1249

SAS No.: Q1249 SDG NO.: Q1249

Lab File ID: VN085647.D

Lab Sample ID: VN0204WBL01

Date Analyzed: 02/04/2025

Time Analyzed: 12:31

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
VN0204WBS02	VN0204WBS02	VN085651.D	02/04/2025
VN0204WBSD02	VN0204WBSD02	VN085655.D	02/04/2025
BP-VPB-192-GW-460-462	Q1249-01	VN085661.D	02/04/2025

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.: Q1249 SAS No.: Q1249 SDG NO.: Q1249
Lab File ID: VN085437.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_N BFB Injection Time: 14:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	74.1 (97.4) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 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
VSTDICC100	VSTDICC100	VN085438.D	01/14/2025	14:56
VSTDICCC050	VSTDICCC050	VN085439.D	01/14/2025	15:19
VSTDICC020	VSTDICC020	VN085440.D	01/14/2025	15:43
VSTDICC010	VSTDICC010	VN085441.D	01/14/2025	16:07
VSTDICC005	VSTDICC005	VN085442.D	01/14/2025	16:31
VSTDICC001	VSTDICC001	VN085443.D	01/14/2025	17:19

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG NO.: Q1249
 Lab File ID: VN085644.D BFB Injection Date: 02/04/2025
 Instrument ID: MSVOA_N BFB Injection Time: 09:55
 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	19.4
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	6.3
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	80.1
175	5.0 - 9.0% of mass 174	5.8 (7.2) 1
176	95.0 - 101.0% of mass 174	77.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.4 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085645.D	02/04/2025	11:05
VN0204WBL01	VN0204WBL01	VN085647.D	02/04/2025	12:31
VN0204WBS02	VN0204WBS02	VN085651.D	02/04/2025	14:51
VN0204WBSD02	VN0204WBSD02	VN085655.D	02/04/2025	16:37
BP-VPB-192-GW-460-462	Q1249-01	VN085661.D	02/04/2025	19:02
VSTDCCC050EC	VSTDCCC050	VN085664.D	02/04/2025	20:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG NO.: Q1249
Lab File ID: VN085645.D Date Analyzed: 02/04/2025
Instrument ID: MSVOA_N Time Analyzed: 11:05
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	200704	8.22	345148	9.10	309053	11.87
UPPER LIMIT	401408	8.724	690296	9.6	618106	12.365
LOWER LIMIT	100352	7.724	172574	8.6	154527	11.365
EPA SAMPLE NO.						
BP-VPB-192-GW-460-462	197271	8.22	369746	9.10	324153	11.87
VN0204WBL01	197983	8.22	379434	9.10	328690	11.87
VN0204WBS02	206401	8.22	367320	9.10	317764	11.87
VN0204WBSD02	250474	8.22	394206	9.10	352019	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG NO.: Q1249
Lab File ID: VN085645.D Date Analyzed: 02/04/2025
Instrument ID: MSVOA_N Time Analyzed: 11:05
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	157058	13.788				
UPPER LIMIT	314116	14.288				
LOWER LIMIT	78529	13.288				
EPA SAMPLE NO.						
BP-VPB-192-GW-460-462	131427	13.79				
VN0204WBL01	132287	13.79				
VN0204WBS02	150317	13.79				
VN0204WBSD02	163365	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

1
2
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17

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/29/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-460-462		SDG No.:	Q1249	
Lab Sample ID:	Q1249-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085661.D	1		02/04/25 19:02	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	5.50		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/29/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-460-462		SDG No.:	Q1249	
Lab Sample ID:	Q1249-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085661.D	1		02/04/25 19:02	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.2		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	197000	8.224				
540-36-3	1,4-Difluorobenzene	370000	9.1				
3114-55-4	Chlorobenzene-d5	324000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	01/29/25	
Project:	CTO WE13		Date Received:	01/30/25	
Client Sample ID:	BP-VPB-192-GW-460-462		SDG No.:	Q1249	
Lab Sample ID:	Q1249-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085661.D	1		02/04/25 19:02	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085661.D
Acq On : 04 Feb 2025 19:02
Operator : JC\MD
Sample : Q1249-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

Quant Time: Feb 05 01:10:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

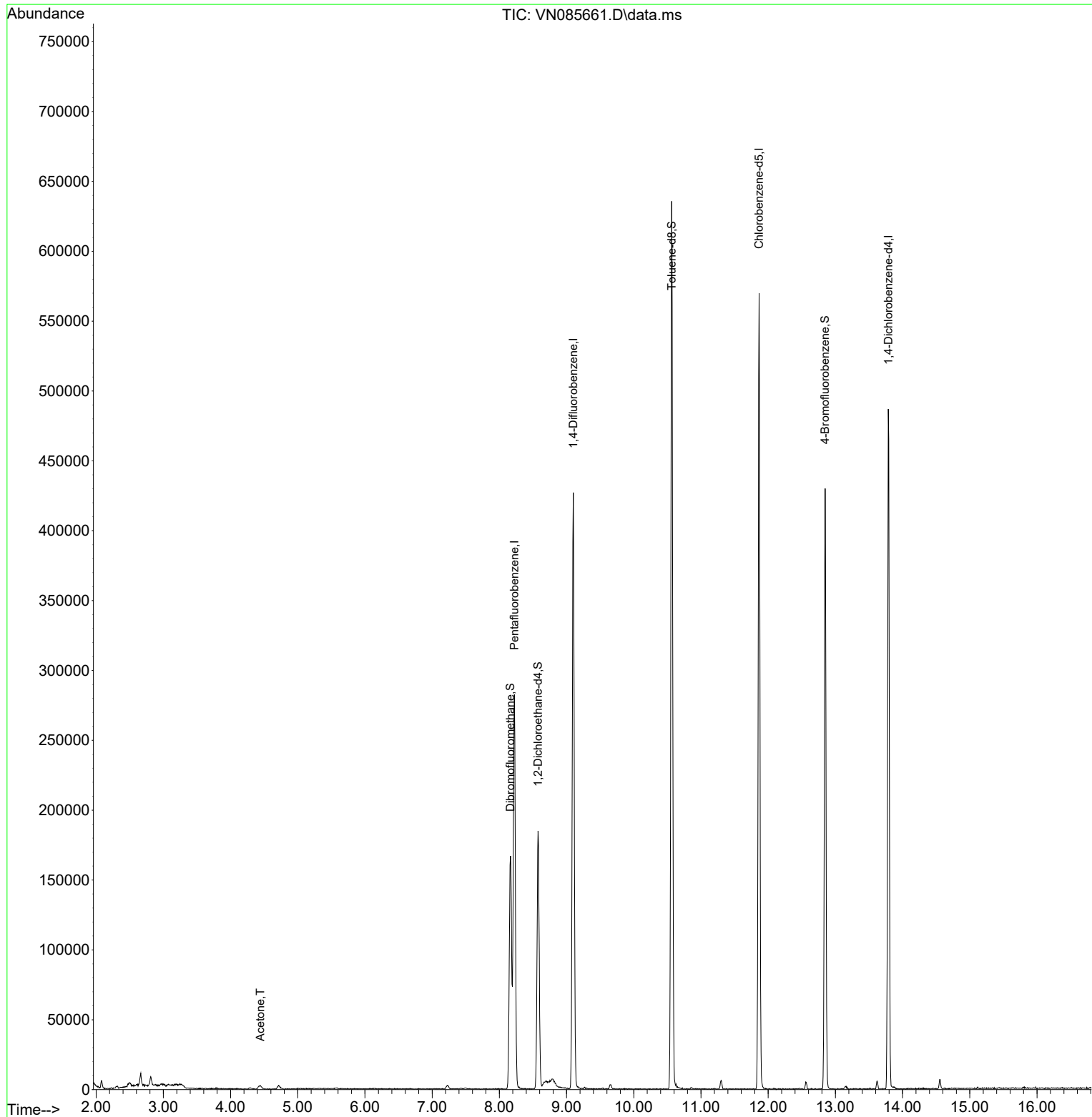
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	197271	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	369746	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	324153	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131427	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	144065	45.241	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	90.480%	
35) Dibromofluoromethane	8.165	113	126291	49.234	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	98.460%	
50) Toluene-d8	10.565	98	450233	49.401	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	98.800%	
62) 4-Bromofluorobenzene	12.847	95	142147	45.595	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	91.180%	
Target Compounds						
16) Acetone	4.442	43	5610	5.452	ug/l	Qvalue # 80

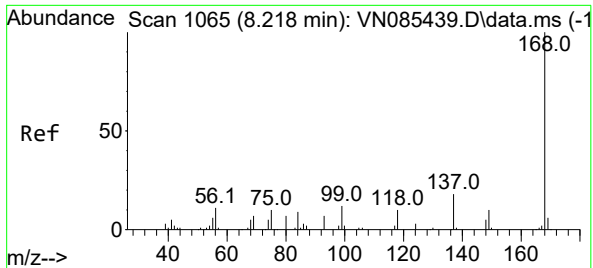
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085661.D
Acq On : 04 Feb 2025 19:02
Operator : JC\MD
Sample : Q1249-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

Quant Time: Feb 05 01:10:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

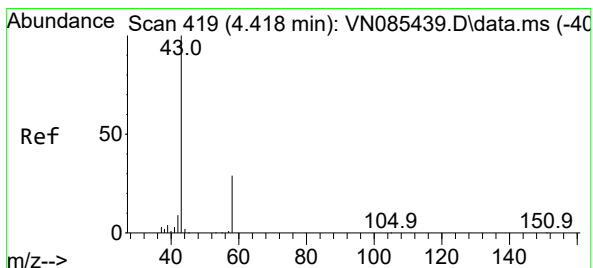
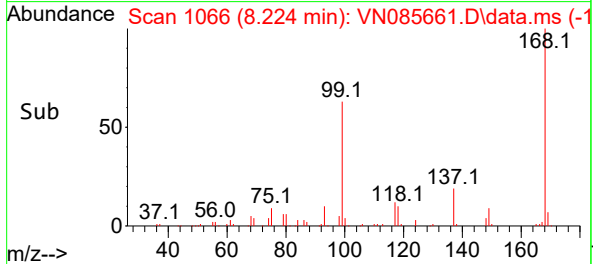
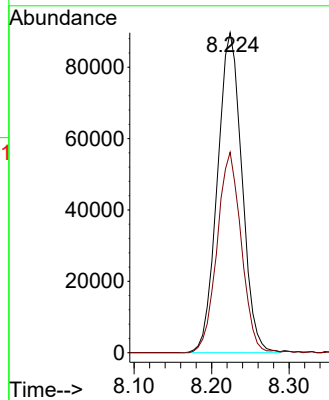
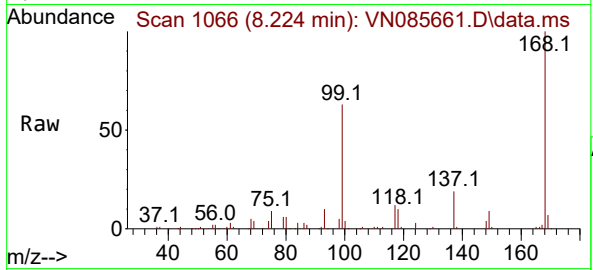




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085661.D
Acq: 04 Feb 2025 19:02

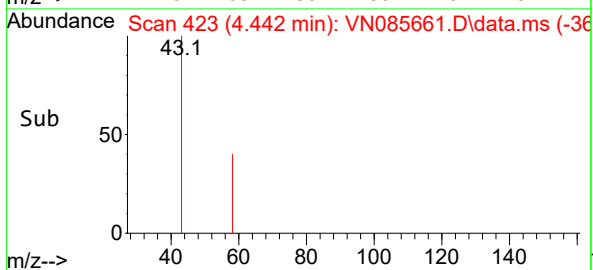
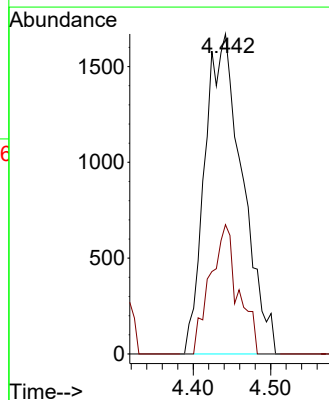
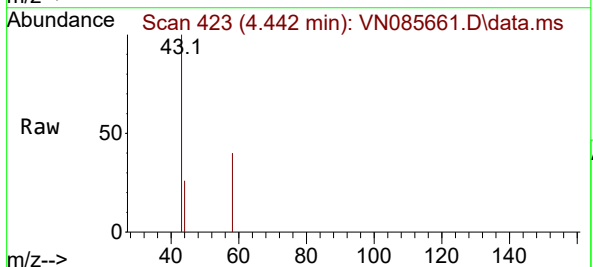
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

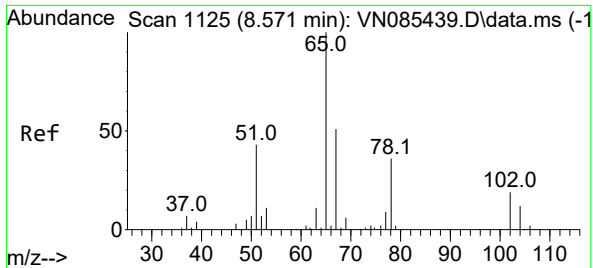
Tgt Ion:168 Resp: 197271
Ion Ratio Lower Upper
168 100
99 62.6 53.6 80.4



#16
Acetone
Concen: 5.452 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.024 min
Lab File: VN085661.D
Acq: 04 Feb 2025 19:02

Tgt Ion: 43 Resp: 5610
Ion Ratio Lower Upper
43 100
58 40.4 23.8 35.6#





#33

1,2-Dichloroethane-d4

Concen: 45.241 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085661.D

Acq: 04 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

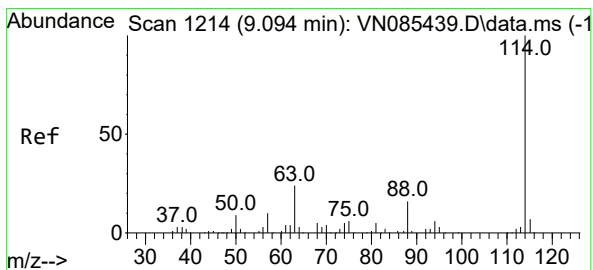
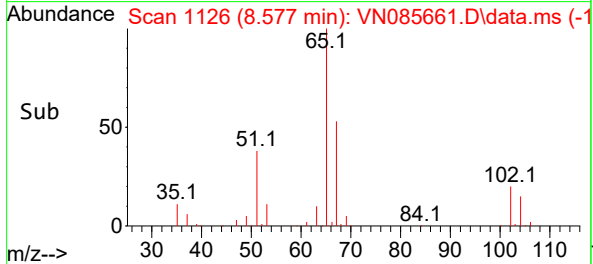
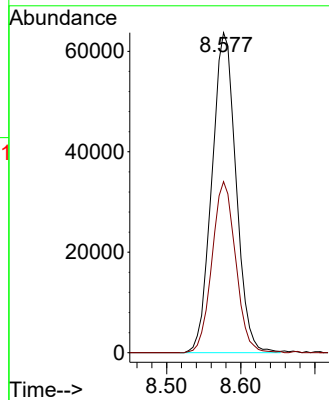
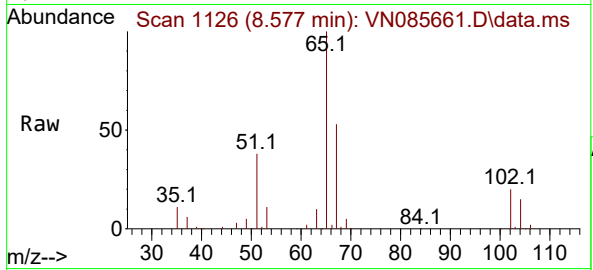
BP-VPB-192-GW-460-462

Tgt Ion: 65 Resp: 144065

Ion Ratio Lower Upper

65 100

67 52.3 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085661.D

Acq: 04 Feb 2025 19:02

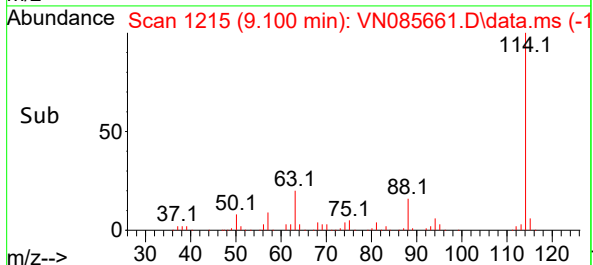
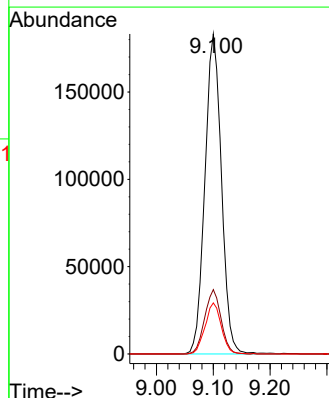
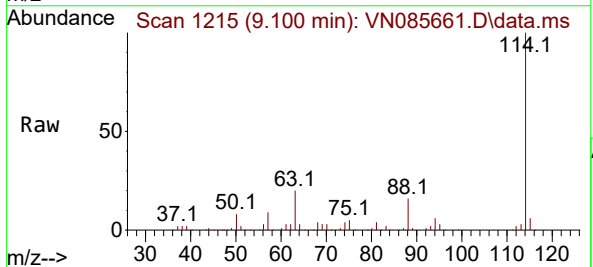
Tgt Ion: 114 Resp: 369746

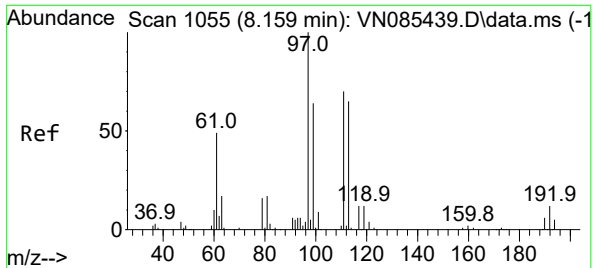
Ion Ratio Lower Upper

114 100

63 20.1 0.0 47.6

88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.234 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085661.D

Acq: 04 Feb 2025 19:02

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-192-GW-460-462

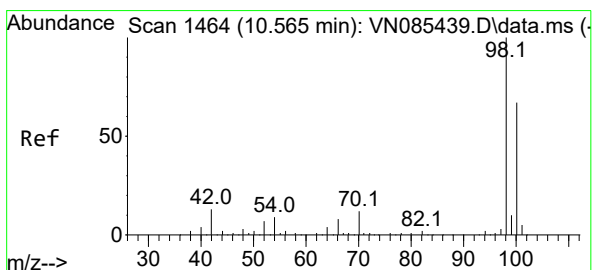
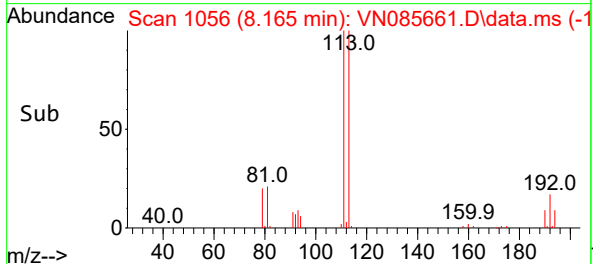
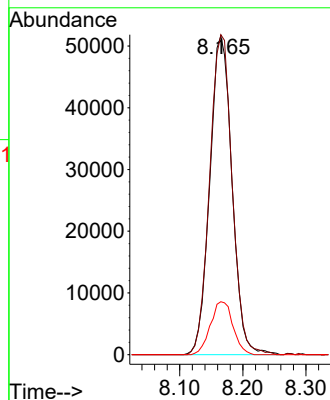
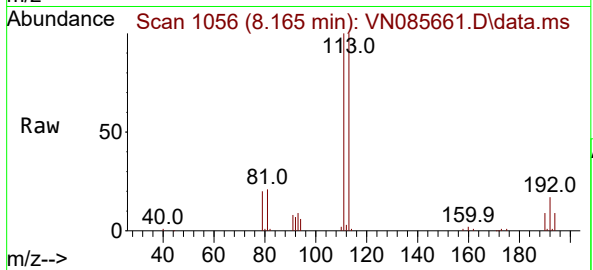
Tgt Ion:113 Resp: 126291

Ion Ratio Lower Upper

113 100

111 101.4 82.7 124.1

192 16.8 14.3 21.5



#50

Toluene-d8

Concen: 49.401 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085661.D

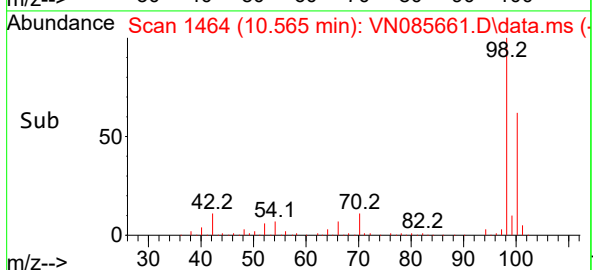
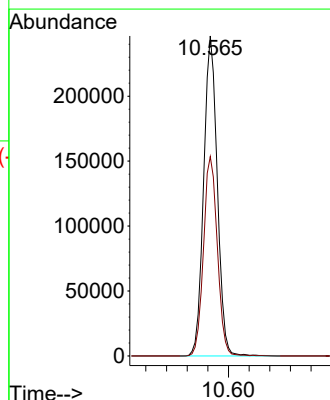
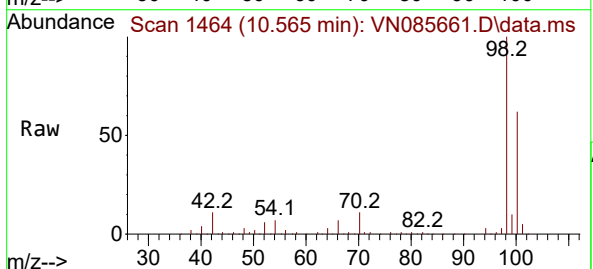
Acq: 04 Feb 2025 19:02

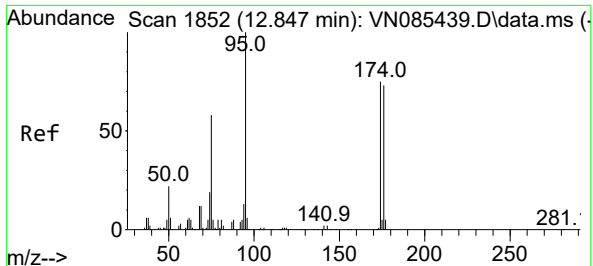
Tgt Ion: 98 Resp: 450233

Ion Ratio Lower Upper

98 100

100 63.2 52.2 78.4

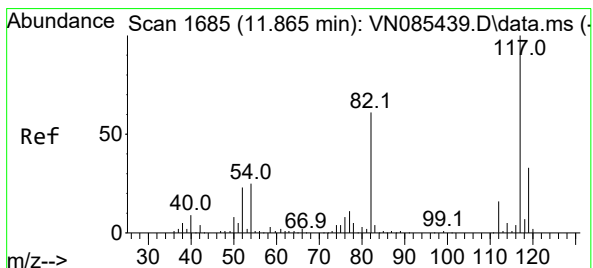
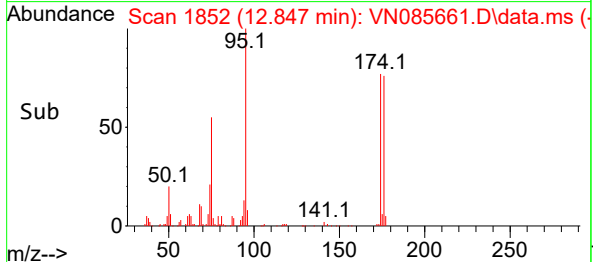
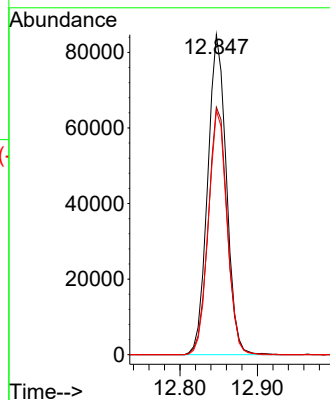
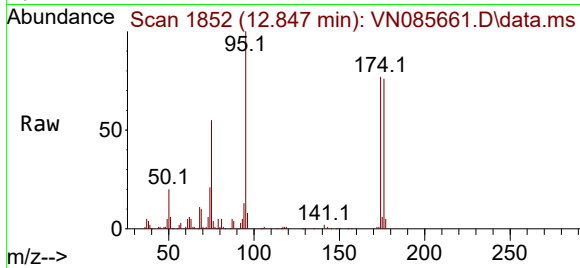




#62
4-Bromofluorobenzene
Concen: 45.595 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085661.D
Acq: 04 Feb 2025 19:02

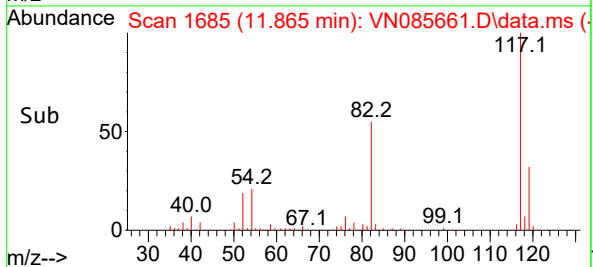
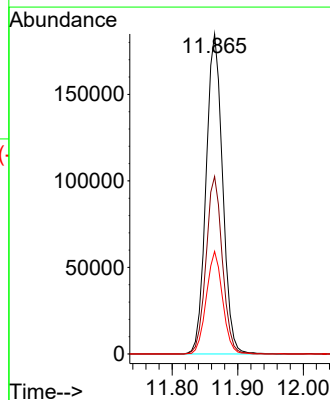
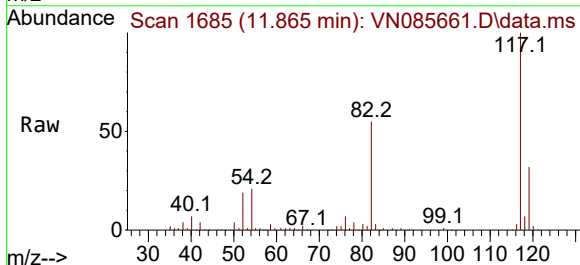
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

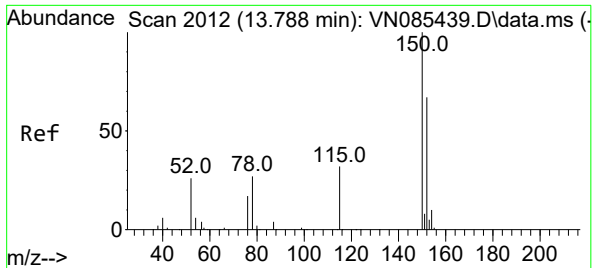
Tgt Ion: 95 Resp: 142147
Ion Ratio Lower Upper
95 100
174 78.0 0.0 145.0
176 76.1 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085661.D
Acq: 04 Feb 2025 19:02

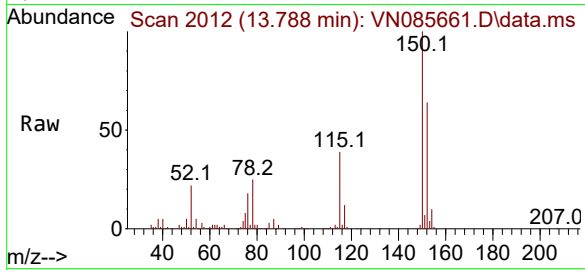
Tgt Ion: 117 Resp: 324153
Ion Ratio Lower Upper
117 100
82 55.5 48.6 72.8
119 32.0 26.6 39.8



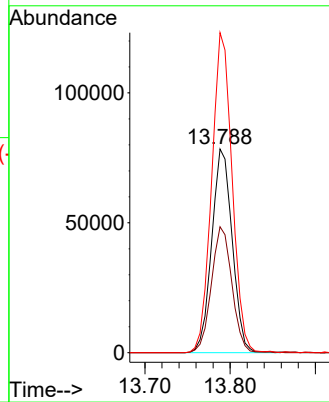
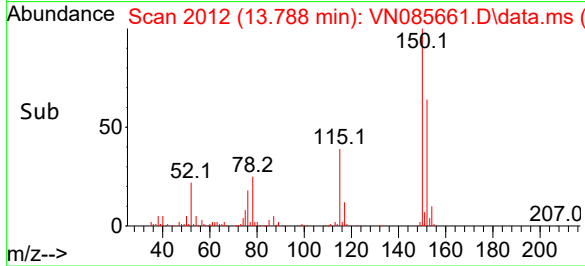


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085661.D
Acq: 04 Feb 2025 19:02

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462



Tgt Ion:152 Resp: 131427
Ion Ratio Lower Upper
152 100
115 61.8 31.1 93.3
150 156.5 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085661.D
Acq On : 04 Feb 2025 19:02
Operator : JC\MD
Sample : Q1249-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085661.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.665	114	121	126	rBV	9093	15500	1.33%	0.257%
2	2.812	139	146	153	rBV4	6810	13868	1.19%	0.230%
3	8.165	1045	1056	1061	rBV	166794	421321	36.24%	6.988%
4	8.224	1061	1066	1077	rVB	281489	599014	51.53%	9.936%
5	8.577	1115	1126	1135	rBV	184762	413483	35.57%	6.858%
6	9.100	1206	1215	1225	rBV	426595	858564	73.85%	14.241%
7	10.565	1455	1464	1474	rBV	635377	1162562	100.00%	19.283%
8	11.865	1677	1685	1696	rBV	569395	992073	85.34%	16.455%
9	12.847	1845	1852	1866	rBV	429732	718595	61.81%	11.919%
10	13.788	2005	2012	2020	rBV	486602	821032	70.62%	13.618%
11	14.559	2135	2143	2149	rBV4	7110	12930	1.11%	0.214%

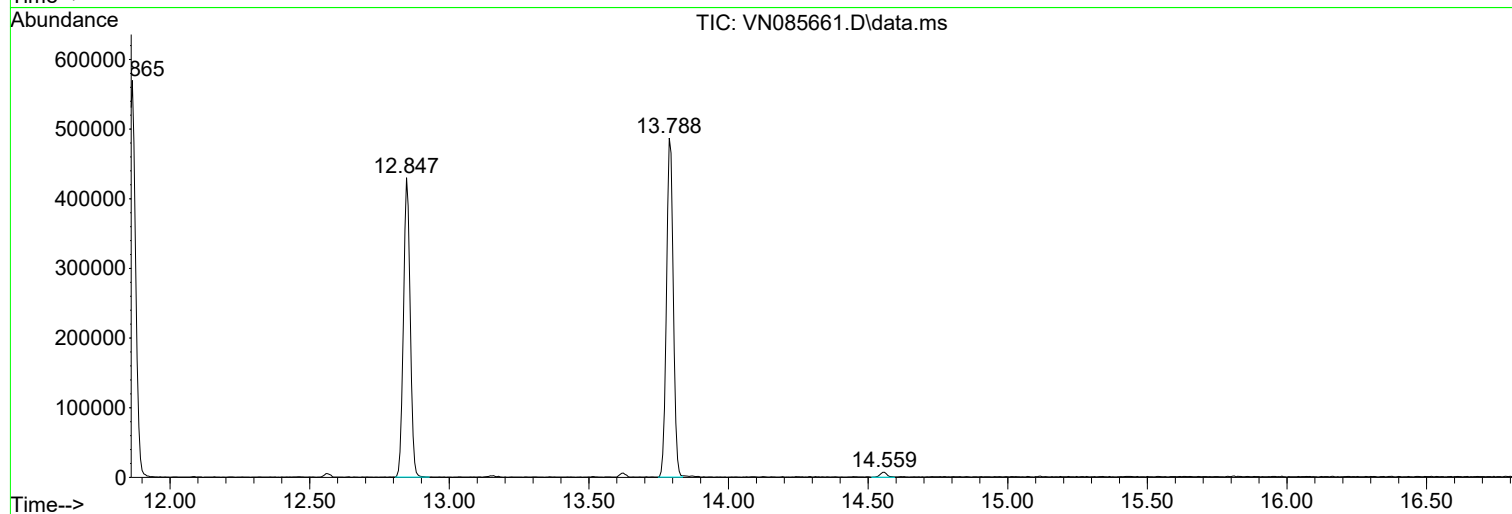
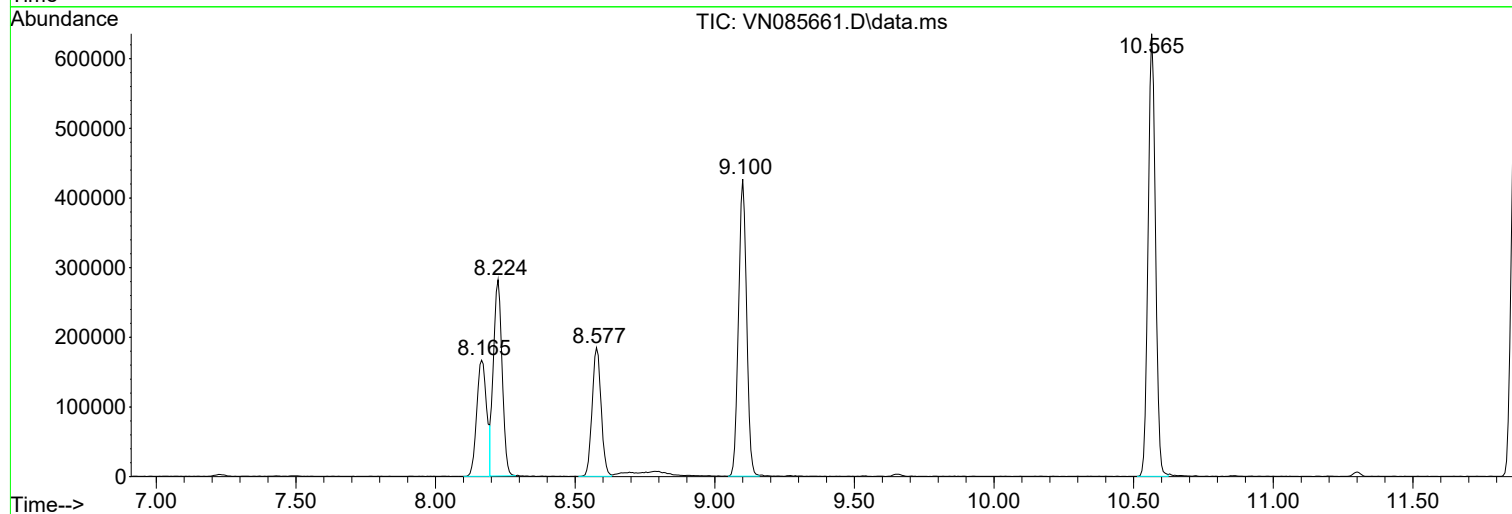
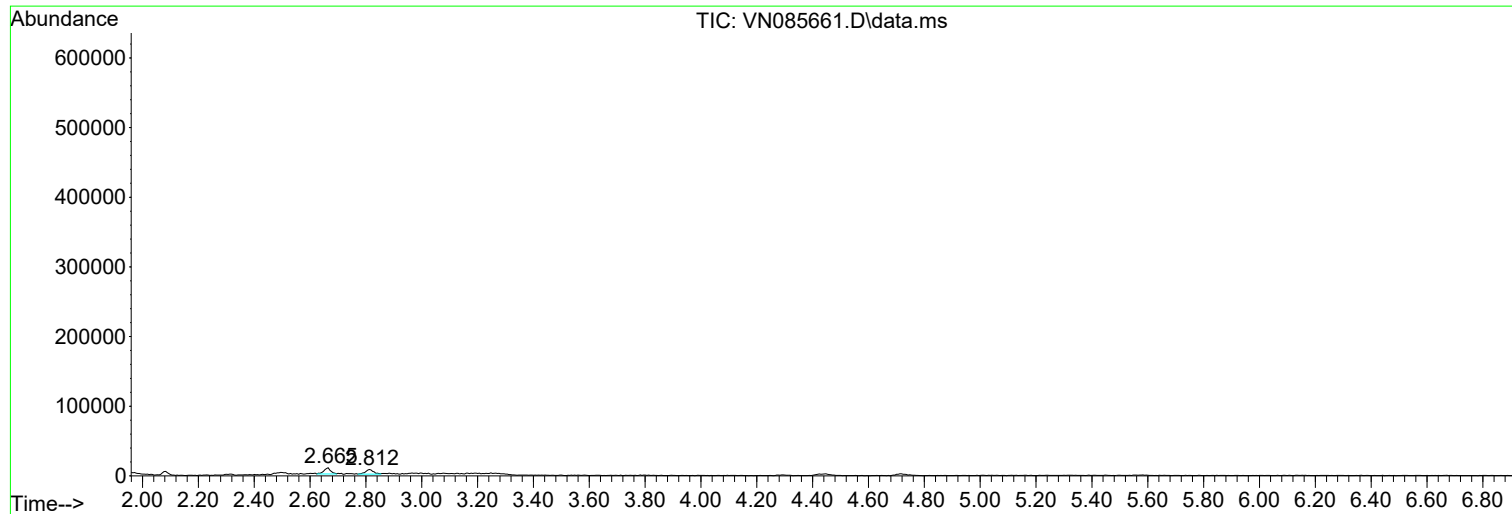
Sum of corrected areas: 6028942

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085661.D
Acq On : 04 Feb 2025 19:02
Operator : JC\MD
Sample : Q1249-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085661.D
Acq On : 04 Feb 2025 19:02
Operator : JC\MD
Sample : Q1249-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085661.D
Acq On : 04 Feb 2025 19:02
Operator : JC\MD
Sample : Q1249-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-192-GW-460-462

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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



CALIBRATION SUMMARY

1
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG No.: Q1249
 Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF100 = VN085438.D			RRF050 = VN085439.D		RRF020 = VN085440.D		
	RRF010 = VN085441.D			RRF005 = VN085442.D		RRF001 = VN085443.D		
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD
Chloromethane	0.680	0.680	0.727	0.693	0.779	0.839	0.733	8.8
Vinyl Chloride	0.697	0.686	0.727	0.711	0.781	0.819	0.737	7.1
Bromomethane	0.392	0.417	0.454	0.437	0.525		0.445	11.3
Chloroethane	0.435	0.424	0.468	0.429	0.505	0.542	0.467	10.3
Trichlorofluoromethane	1.046	0.997	1.097	1.040	1.077	1.157	1.069	5.1
1,1,2-Trichlorotrifluoroethane	0.590	0.542	0.609	0.587	0.639	0.646	0.602	6.4
1,1-Dichloroethene	0.548	0.533	0.556	0.526	0.559	0.497	0.537	4.3
Acetone	0.238	0.252	0.252	0.247	0.269	0.306	0.261	9.3
Carbon Disulfide	1.555	1.477	1.647	1.537	1.719	1.978	1.652	11
Methyl tert-butyl Ether	1.834	1.873	1.853	1.664	1.685	1.545	1.742	7.5
Methylene Chloride	0.629	0.629	0.658	0.606	0.696	0.656	0.646	4.9
trans-1,2-Dichloroethene	0.571	0.555	0.574	0.539	0.569	0.632	0.573	5.5
1,1-Dichloroethane	1.164	1.170	1.206	1.100	1.226	1.204	1.178	3.8
2-Butanone	0.378	0.390	0.398	0.363	0.387	0.386	0.384	3.1
Carbon Tetrachloride	0.574	0.530	0.579	0.529	0.565	0.567	0.557	4
cis-1,2-Dichloroethene	0.691	0.683	0.715	0.639	0.669	0.655	0.675	4
Chloroform	1.197	1.175	1.241	1.169	1.253	1.273	1.218	3.6
1,1,1-Trichloroethane	1.053	1.016	1.091	1.000	1.148	1.102	1.068	5.2
Methylcyclohexane	0.564	0.463	0.477	0.407	0.437	0.397	0.457	13.3
Benzene	1.551	1.449	1.527	1.376	1.474	1.400	1.463	4.7
1,2-Dichloroethane	0.569	0.547	0.575	0.522	0.574	0.517	0.551	4.8
Trichloroethene	0.362	0.324	0.352	0.310	0.343	0.352	0.341	5.8
1,2-Dichloropropane	0.390	0.371	0.388	0.334	0.388	0.371	0.374	5.7
Bromodichloromethane	0.590	0.559	0.579	0.514	0.569	0.484	0.549	7.5
4-Methyl-2-Pentanone	0.499	0.492	0.495	0.432	0.443	0.380	0.457	10.3
Toluene	0.964	0.870	0.919	0.808	0.835	0.690	0.848	11.3
t-1,3-Dichloropropene	0.594	0.551	0.544	0.481	0.527	0.416	0.519	12
cis-1,3-Dichloropropene	0.623	0.588	0.601	0.527	0.538	0.450	0.554	11.4
1,1,2-Trichloroethane	0.348	0.340	0.353	0.309	0.349	0.314	0.335	5.7
2-Hexanone	0.358	0.357	0.353	0.298	0.302	0.261	0.321	12.6

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG No.: Q1249
 Instrument ID: MSVOA_N Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 14:56 17:19
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085438.D		RRF050 = VN085439.D		RRF020 = VN085440.D			
		RRF010 = VN085441.D		RRF005 = VN085442.D		RRF001 = VN085443.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dibromochloromethane	0.430	0.414	0.412	0.368	0.420	0.386	0.405	5.8	
Tetrachloroethene	0.351	0.322	0.365	0.338	0.346	0.323	0.341	4.9	
Chlorobenzene	1.133	1.076	1.154	1.047	1.110	1.051	1.095	4	
Ethyl Benzene	2.072	1.867	1.940	1.685	1.709	1.430	1.784	12.7	
m/p-Xylenes	0.775	0.707	0.750	0.615	0.616	0.492	0.659	16	
o-Xylene	0.738	0.681	0.713	0.584	0.582	0.482	0.630	15.5	
Styrene	1.271	1.173	1.186	0.956	0.929	0.742	1.043	19.2	
Bromoform	0.311	0.311	0.312	0.273	0.284	0.235	0.288	10.6	
Isopropylbenzene	3.922	3.448	3.681	3.272	3.157	2.766	3.375	12.1	
1,1,2,2-Tetrachloroethane	1.121	1.145	1.187	1.157	1.228	1.314	1.192	5.9	
1,3-Dichlorobenzene	1.720	1.565	1.701	1.574	1.656	1.526	1.624	4.9	
1,4-Dichlorobenzene	1.706	1.562	1.713	1.607	1.743	1.767	1.683	4.8	
1,2-Dichlorobenzene	1.611	1.555	1.654	1.532	1.600	1.766	1.620	5.2	
1,2-Dichloroethane-d4	0.774	0.831	0.754	0.762	0.914		0.807	8.3	
Dibromofluoromethane	0.359	0.358	0.335	0.310	0.373		0.347	7.1	
Toluene-d8	1.339	1.267	1.207	1.076	1.274		1.232	8.1	
4-Bromofluorobenzene	0.475	0.449	0.410	0.357	0.417		0.422	10.6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N011425W.M
 Title : SW846 8260
 Last Update : Wed Jan 15 02:16:08 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN085443.D 5 =VN085442.D 10 =VN085441.D 20 =VN085440.D 50 =VN085439.D 100 =VN085438.D

D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.714	0.708	0.667	0.681	0.629	0.664	0.677	4.59
3) P	Chloromethane	0.839	0.779	0.693	0.727	0.680	0.680	0.733	8.77
4) C	Vinyl Chloride	0.819	0.781	0.711	0.727	0.686	0.697	0.737	7.06#
5) T	Bromomethane	0.525	0.437	0.454	0.417	0.392	0.445		11.26
6) T	Chloroethane	0.542	0.505	0.429	0.468	0.424	0.435	0.467	10.27
7) T	Trichlorofluor...	1.157	1.077	1.040	1.097	0.997	1.046	1.069	5.14
8) T	Diethyl Ether	0.457	0.357	0.317	0.363	0.360	0.362	0.369	12.59
9) T	1,1,2-Trichlor...	0.646	0.639	0.587	0.609	0.542	0.590	0.602	6.35
10) T	Methyl Iodide	0.661	0.640	0.704	0.719	0.723	0.690		5.35
11) T	Tert butyl alc...	0.097	0.092	0.095	0.093	0.085	0.092		4.80
12) CM	1,1-Dichloroet...	0.497	0.559	0.526	0.556	0.533	0.548	0.537	4.31#
13) T	Acrolein	0.101	0.131	0.124	0.140	0.136	0.126		12.09
14) T	Allyl chloride	0.952	0.897	0.823	0.843	0.846	0.863	0.871	5.42
15) T	Acrylonitrile	0.298	0.299	0.275	0.303	0.298	0.289	0.294	3.39
16) T	Acetone	0.306	0.269	0.247	0.252	0.252	0.238	0.261	9.28
17) T	Carbon Disulfide	1.978	1.719	1.537	1.647	1.477	1.555	1.652	10.95
18) T	Methyl Acetate	0.871	0.810	0.779	0.758	0.790	0.751	0.793	5.54
19) T	Methyl tert-bu...	1.545	1.685	1.664	1.853	1.873	1.834	1.742	7.53
20) T	Methylene Chlo...	0.656	0.696	0.606	0.658	0.629	0.629	0.646	4.86
21) T	trans-1,2-Dich...	0.632	0.569	0.539	0.574	0.555	0.571	0.573	5.50
22) T	Diisopropyl ether	1.705	1.918	1.834	2.076	2.037	2.026	1.933	7.38
23) T	Vinyl Acetate	1.110	1.270	1.279	1.466	1.495	1.495	1.353	11.67
24) P	1,1-Dichloroet...	1.204	1.226	1.100	1.206	1.170	1.164	1.178	3.81
25) T	2-Butanone	0.386	0.387	0.363	0.398	0.390	0.378	0.384	3.12
26) T	2,2-Dichloropr...	0.930	0.986	0.922	0.985	0.936	0.958	0.953	2.96
27) T	cis-1,2-Dichlo...	0.655	0.669	0.639	0.715	0.683	0.691	0.675	4.02
28) T	Bromochloromet...	0.624	0.595	0.486	0.513	0.542	0.530	0.548	9.44
29) T	Tetrahydrofuran	0.221	0.236	0.233	0.261	0.260	0.248	0.243	6.58
30) C	Chloroform	1.273	1.253	1.169	1.241	1.175	1.197	1.218	3.59#
31) T	Cyclohexane	1.198	1.026	1.033	0.881	0.984	1.024		11.18
32) T	1,1,1-Trichlor...	1.102	1.148	1.000	1.091	1.016	1.053	1.068	5.24
33) S	1,2-Dichloroet...	0.914	0.762	0.754	0.831	0.774	0.807		8.28
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.373	0.310	0.335	0.358	0.359	0.347		7.10
36) T	1,1-Dichloropr...	0.509	0.490	0.441	0.499	0.462	0.521	0.487	6.17
37) T	Ethyl Acetate	0.504	0.520	0.452	0.488	0.488	0.496	0.491	4.66
38) T	Carbon Tetrach...	0.567	0.565	0.529	0.579	0.530	0.574	0.557	3.96
39) T	Methylcyclohexane	0.397	0.437	0.407	0.477	0.463	0.564	0.457	13.29
40) TM	Benzene	1.400	1.474	1.376	1.527	1.449	1.551	1.463	4.70
41) T	Methacrylonitrile	0.241	0.227	0.248	0.268	0.270	0.280	0.256	7.89
42) TM	1,2-Dichloroet...	0.517	0.574	0.522	0.575	0.547	0.569	0.551	4.78
43) T	Isopropyl Acetate	0.793	0.764	0.719	0.801	0.813	0.835	0.787	5.20
44) TM	Trichloroethene	0.352	0.343	0.310	0.352	0.324	0.362	0.341	5.79
45) C	1,2-Dichloropr...	0.371	0.388	0.334	0.388	0.371	0.390	0.374	5.69#
46) T	Dibromomethane	0.292	0.254	0.254	0.277	0.267	0.275	0.270	5.50
47) T	Bromodichlorom...	0.484	0.569	0.514	0.579	0.559	0.590	0.549	7.48
48) T	Methyl methacr...	0.311	0.326	0.321	0.369	0.392	0.406	0.354	11.37
49) T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006	0.006	6.72
50) S	Toluene-d8	1.274	1.076	1.207	1.267	1.339	1.232		8.07
51) T	4-Methyl-2-Pen...	0.380	0.443	0.432	0.495	0.492	0.499	0.457	10.33
52) CM	Toluene	0.690	0.835	0.808	0.919	0.870	0.964	0.848	11.27#
53) T	t-1,3-Dichloro...	0.416	0.527	0.481	0.544	0.551	0.594	0.519	11.98
54) T	cis-1,3-Dichlo...	0.450	0.538	0.527	0.601	0.588	0.623	0.554	11.40
55) T	1,1,2-Trichlor...	0.314	0.349	0.309	0.353	0.340	0.348	0.335	5.67

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\										
Method File : 82N011425W.M										
56)	T	Ethyl methacry...	0.317	0.434	0.418	0.521	0.544	0.582	0.469	20.85
57)	T	1,3-Dichloropr...	0.514	0.584	0.555	0.618	0.602	0.627	0.583	7.31
58)	T	2-Chloroethyl ...	0.163	0.205	0.185	0.226	0.241	0.258	0.213	16.67
59)	T	2-Hexanone	0.261	0.302	0.298	0.353	0.357	0.358	0.321	12.60
60)	T	Dibromochlorom...	0.386	0.420	0.368	0.412	0.414	0.430	0.405	5.79
61)	T	1,2-Dibromoethane	0.334	0.321	0.309	0.356	0.334	0.349	0.334	5.16
62)	S	4-Bromofluorob...		0.417	0.357	0.410	0.449	0.475	0.422	10.57
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.323	0.346	0.338	0.365	0.322	0.351	0.341	4.87
65)	PM	Chlorobenzene	1.051	1.110	1.047	1.154	1.076	1.133	1.095	4.03
66)	T	1,1,1,2-Tetrac...	0.425	0.412	0.371	0.408	0.392	0.404	0.402	4.65
67)	C	Ethyl Benzene	1.430	1.709	1.685	1.940	1.867	2.072	1.784	12.67#
68)	T	m/p-Xylenes	0.492	0.616	0.615	0.750	0.707	0.775	0.659	16.01
69)	T	o-Xylene	0.482	0.582	0.584	0.713	0.681	0.738	0.630	15.47
70)	T	Styrene	0.742	0.929	0.956	1.186	1.173	1.271	1.043	19.21
71)	P	Bromoform	0.235	0.284	0.273	0.312	0.311	0.311	0.288	10.61
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	2.766	3.157	3.272	3.681	3.448	3.922	3.375	12.06
74)	T	N-amyl acetate	1.364	1.394	1.405	1.642	1.622	1.673	1.517	9.43
75)	P	1,1,2,2-Tetrac...	1.314	1.228	1.157	1.187	1.145	1.121	1.192	5.89
76)	T	1,2,3-Trichlor...	1.104	0.965	0.957	1.118	0.893	1.061	1.016	8.96
77)	T	Bromobenzene	0.871	0.880	0.857	0.906	0.858	0.919	0.882	2.90
78)	T	n-propylbenzene	3.227	3.605	3.846	4.400	4.154	4.738	3.995	13.74
79)	T	2-Chlorotoluene	2.252	2.533	2.571	2.761	2.585	2.812	2.586	7.67
80)	T	1,3,5-Trimethy...	2.160	2.529	2.695	3.140	2.940	3.260	2.787	14.69
81)	T	trans-1,4-Dich...		0.335	0.347	0.386	0.390	0.419	0.376	9.04
82)	T	4-Chlorotoluene	2.144	2.536	2.512	2.820	2.588	2.847	2.574	9.91
83)	T	tert-Butylbenzene	1.885	2.189	2.236	2.570	2.439	2.726	2.341	12.85
84)	T	1,2,4-Trimethy...	1.888	2.542	2.710	3.190	3.016	3.323	2.778	18.89
85)	T	sec-Butylbenzene	2.318	3.026	3.147	3.643	3.421	3.912	3.244	17.17
86)	T	p-Isopropyltol...	1.777	2.368	2.541	2.942	2.872	3.286	2.631	20.04
87)	T	1,3-Dichlorobe...	1.526	1.656	1.574	1.701	1.565	1.720	1.624	4.91
88)	T	1,4-Dichlorobe...	1.767	1.743	1.607	1.713	1.562	1.706	1.683	4.78
89)	T	n-Butylbenzene	1.772	2.176	2.168	2.485	2.483	2.881	2.327	16.22
90)	T	Hexachloroethane	0.681	0.616	0.574	0.613	0.577	0.645	0.618	6.59
91)	T	1,2-Dichlorobe...	1.766	1.600	1.532	1.654	1.555	1.611	1.620	5.15
92)	T	1,2-Dibromo-3-...	0.202	0.228	0.212	0.224	0.222	0.218	0.218	4.31
93)	T	1,2,4-Trichlor...	0.658	0.717	0.704	0.799	0.781	0.858	0.753	9.69
94)	T	Hexachlorobuta...	0.413	0.441	0.395	0.396	0.367	0.386	0.400	6.31
95)	T	Naphthalene	2.115	1.987	1.958	2.348	2.482	2.588	2.246	11.79
96)	T	1,2,3-Trichlor...	0.750	0.693	0.732	0.792	0.786	0.817	0.762	5.96

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Jan 15 01:41:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	202613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	329363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298938	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	313645	95.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 191.800%#			
35) Dibromofluoromethane	8.159	113	236159	103.353	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 206.700%#			
50) Toluene-d8	10.565	98	881956	108.636	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 217.280%#			
62) 4-Bromofluorobenzene	12.847	95	313161	112.765	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 225.520%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	269023	98.065	ug/l	99
3) Chloromethane	2.359	50	275415	92.724	ug/l	98
4) Vinyl Chloride	2.512	62	282361	94.576	ug/l	99
5) Bromomethane	2.942	94	158888	88.105	ug/l	98
6) Chloroethane	3.112	64	176111	93.043	ug/l	99
7) Trichlorofluoromethane	3.494	101	423967	97.870	ug/l	100
8) Diethyl Ether	3.953	74	146889	98.154	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	239104	97.997	ug/l	99
10) Methyl Iodide	4.589	142	292983	104.856	ug/l	95
11) Tert butyl alcohol	5.512	59	173044	462.061	ug/l	99
12) 1,1-Dichloroethene	4.336	96	222117	102.146	ug/l	99
13) Acrolein	4.171	56	275350	538.600	ug/l	99
14) Allyl chloride	5.018	41	349717	99.111	ug/l	98
15) Acrylonitrile	5.712	53	585370	492.095	ug/l	99
16) Acetone	4.418	43	483221	457.268	ug/l	96
17) Carbon Disulfide	4.712	76	630294	94.140	ug/l	100
18) Methyl Acetate	5.012	43	304226	94.674	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	743008	105.230	ug/l	100
20) Methylene Chloride	5.271	84	254912	97.440	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	231503	99.618	ug/l	97
22) Diisopropyl ether	6.665	45	820871	104.812	ug/l	99
23) Vinyl Acetate	6.594	43	3029568	550.850	ug/l	99
24) 1,1-Dichloroethane	6.565	63	471831	98.803	ug/l	99
25) 2-Butanone	7.477	43	764979	491.912	ug/l	98
26) 2,2-Dichloropropane	7.482	77	388140	100.530	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	280197	102.367	ug/l	99
28) Bromochloromethane	7.806	49	214796	96.679	ug/l	100
29) Tetrahydrofuran	7.830	42	503459	510.635	ug/l	99
30) Chloroform	7.959	83	484941	98.253	ug/l	100
31) Cyclohexane	8.253	56	398641	96.041	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	426782	98.578	ug/l	98
36) 1,1-Dichloropropene	8.365	75	342961	106.945	ug/l	100
37) Ethyl Acetate	7.553	43	326802	100.961	ug/l	97
38) Carbon Tetrachloride	8.359	117	378390	103.065	ug/l	97
39) Methylcyclohexane	9.594	83	371734	123.354	ug/l	99
40) Benzene	8.600	78	1021393	106.001	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 01:28:51 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	184326	109.454	ug/l	96
42) 1,2-Dichloroethane	8.665	62	374938	103.314	ug/l	100
43) Isopropyl Acetate	8.682	43	549969	106.035	ug/l	100
44) Trichloroethene	9.347	130	238296	106.242	ug/l	96
45) 1,2-Dichloropropane	9.618	63	256964	104.405	ug/l	97
46) Dibromomethane	9.706	93	180990	101.913	ug/l	99
47) Bromodichloromethane	9.882	83	388499	107.377	ug/l	98
48) Methyl methacrylate	9.676	41	267689	114.685	ug/l	99
49) 1,4-Dioxane	9.688	88	83879	2133.992	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	1643800	546.159	ug/l	100
52) Toluene	10.623	92	634743	113.689	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	391238	114.424	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	410403	112.369	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	229522	103.879	ug/l	98
56) Ethyl methacrylate	10.870	69	383663	101.029	ug/l	99
57) 1,3-Dichloropropane	11.159	76	412886	107.469	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	848636	605.243	ug/l	100
59) 2-Hexanone	11.194	43	1178831	556.643	ug/l	99
60) Dibromochloromethane	11.353	129	283361	106.227	ug/l	99
61) 1,2-Dibromoethane	11.465	107	230104	104.623	ug/l	98
64) Tetrachloroethene	11.100	164	209870	102.980	ug/l	98
65) Chlorobenzene	11.888	112	677679	103.482	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	241593	100.517	ug/l	99
67) Ethyl Benzene	11.959	91	1239080	116.169	ug/l	99
68) m/p-Xylenes	12.070	106	927244	235.219	ug/l	99
69) o-Xylene	12.394	106	441279	117.135	ug/l	100
70) Styrene	12.406	104	760136	121.919	ug/l	99
71) Bromoform	12.576	173	186124	108.227	ug/l #	99
73) Isopropylbenzene	12.694	105	1146752	116.221	ug/l	100
74) N-amyl acetate	12.488	43	489217	110.308	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	327767	94.039	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	310115m	104.530	ug/l	
77) Bromobenzene	12.976	156	268616	104.200	ug/l	97
78) n-propylbenzene	13.029	91	1385353	118.600	ug/l	100
79) 2-Chlorotoluene	13.123	91	822258	108.767	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	953066	116.938	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	122508	111.544	ug/l	87
82) 4-Chlorotoluene	13.217	91	832317	110.574	ug/l	99
83) tert-Butylbenzene	13.435	119	797069	116.457	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	971729	119.625	ug/l	100
85) sec-Butylbenzene	13.611	105	1143885	120.587	ug/l	100
86) p-Isopropyltoluene	13.723	119	960747	100.111	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	502960	105.943	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	498709	101.341	ug/l	97
89) n-Butylbenzene	14.053	91	842368	123.781	ug/l	98
90) Hexachloroethane	14.329	117	188541	104.405	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	470919	99.445	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	63846	100.313	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	250787	113.946	ug/l	99
94) Hexachlorobutadiene	15.500	225	112899	96.619	ug/l	99
95) Naphthalene	15.635	128	756816	115.234	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	238860	107.256	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

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

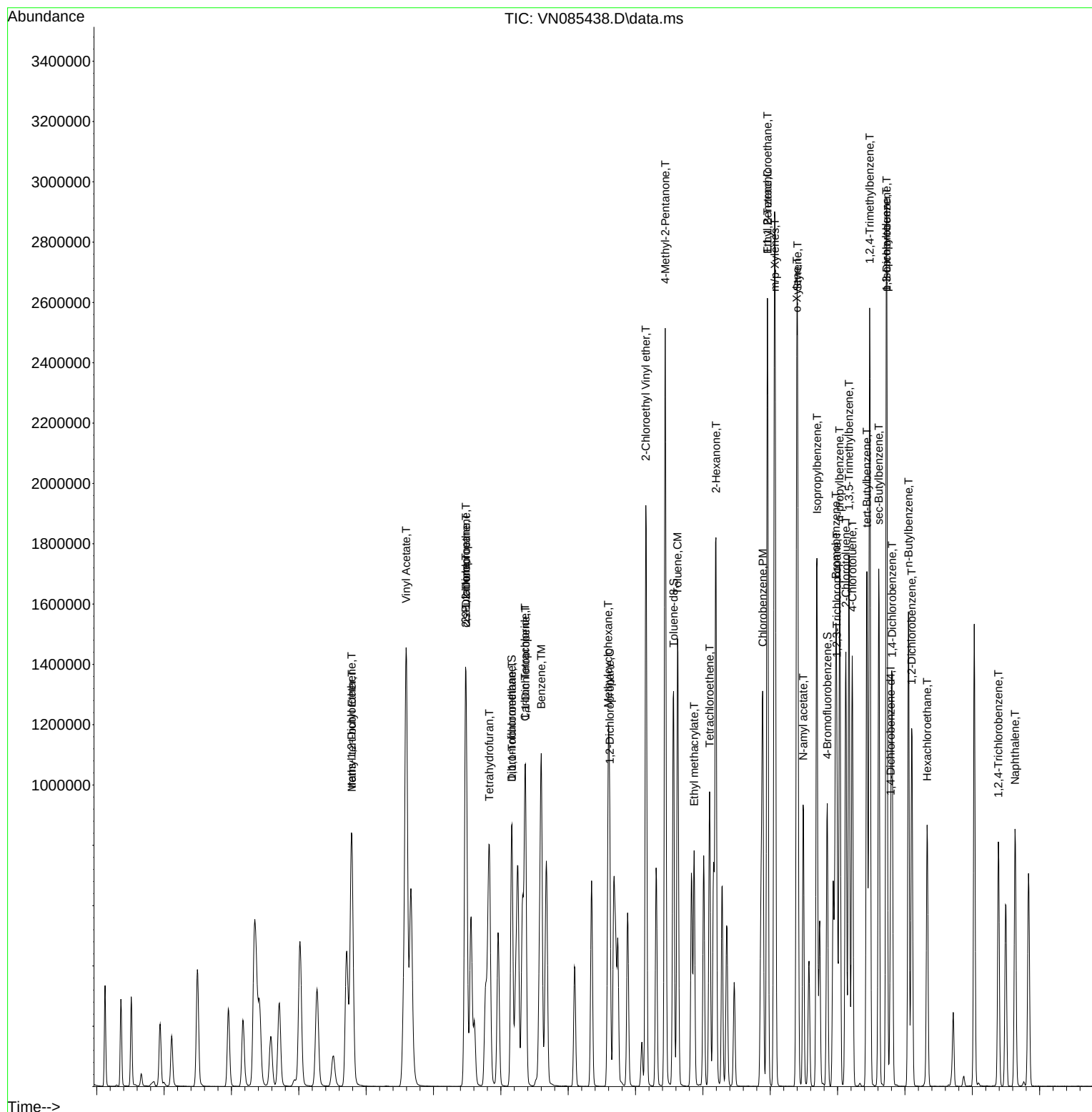

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\  
Data File : VN085438.D  
Acq On    : 14 Jan 2025   14:56  
Operator  : JC\MD  
Sample    : VSTDICC100  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 4   Sample Multiplier: 1
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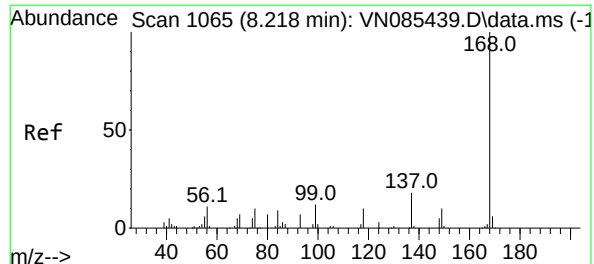
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





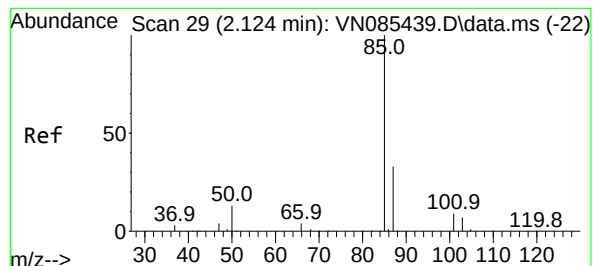
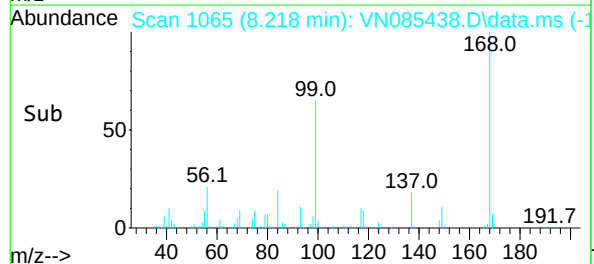
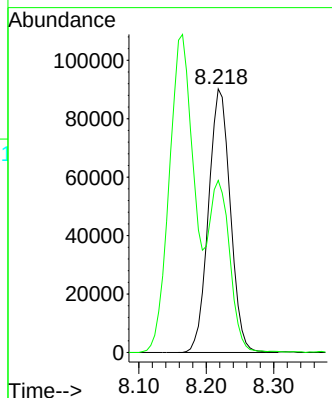
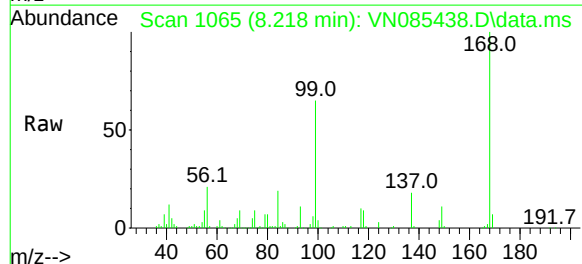
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 168 Resp: 202613
Ion Ratio Lower Upper
168 100
99 64.9 53.6 80.4

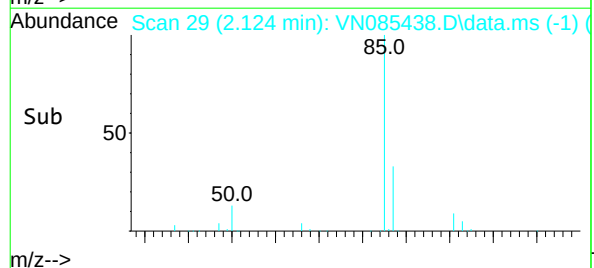
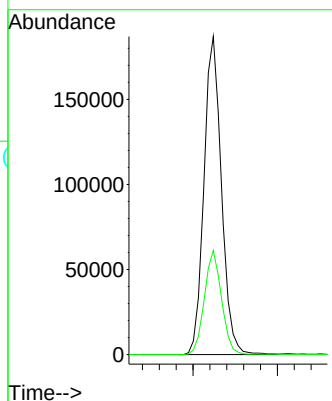
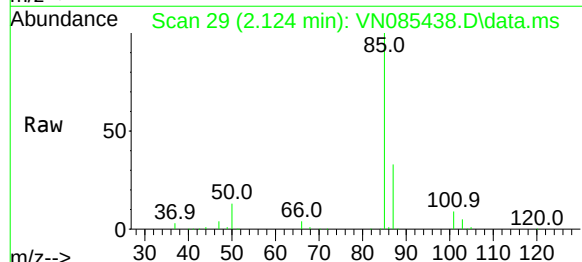
Manual Integrations
APPROVED

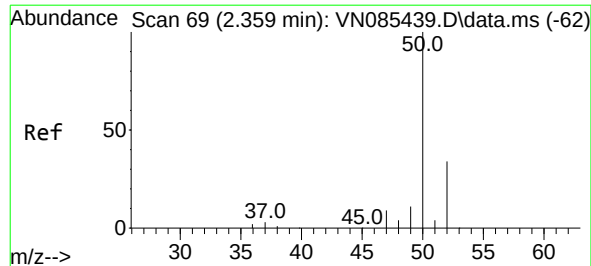
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 98.065 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 85 Resp: 269023
Ion Ratio Lower Upper
85 100
87 32.7 16.7 50.1





#3

Chloromethane

Concen: 92.724 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 275415

Ion Ratio Lower Upper

50 100

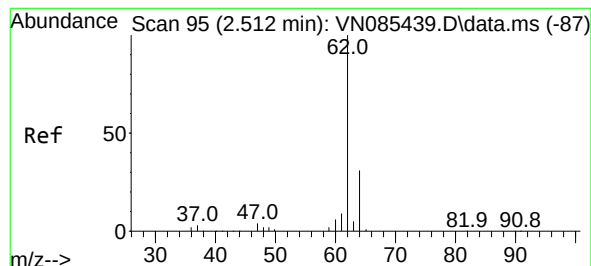
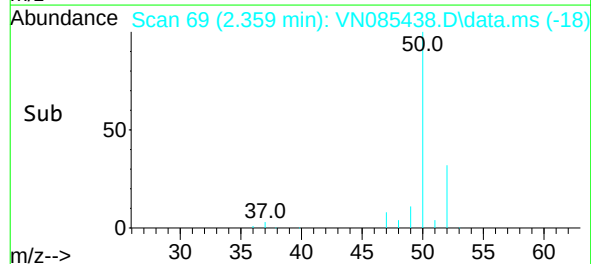
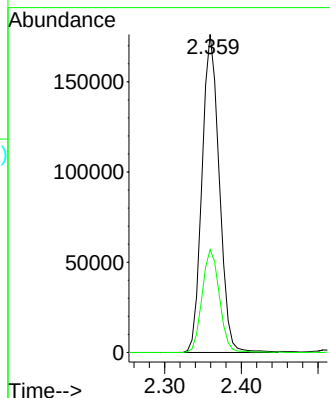
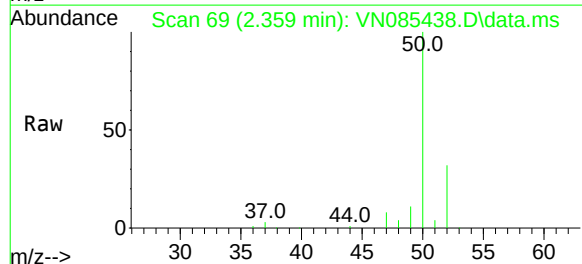
52 32.4 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 94.576 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085438.D

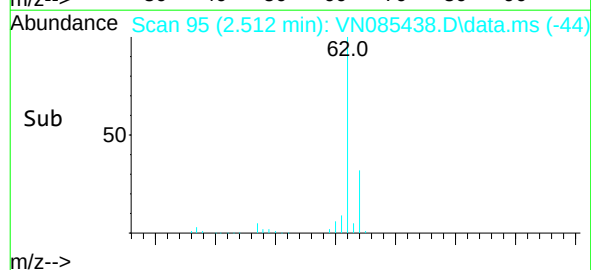
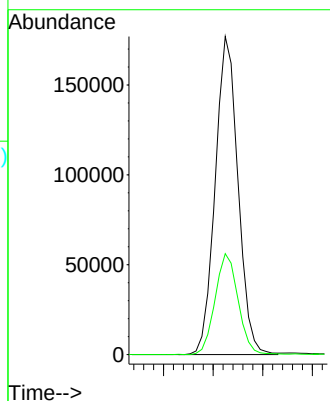
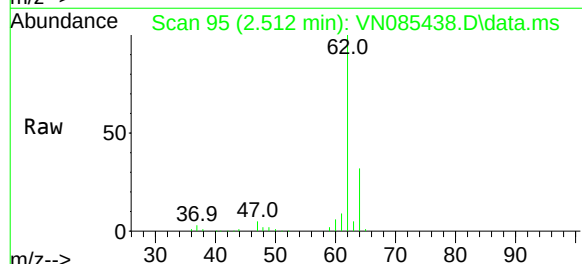
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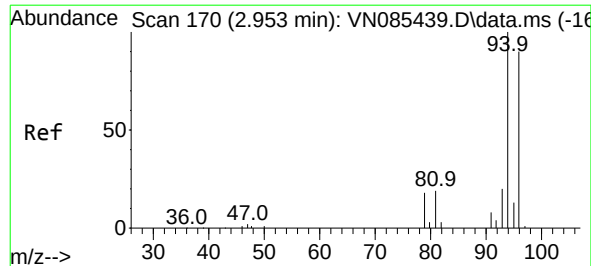
Tgt Ion: 62 Resp: 282361

Ion Ratio Lower Upper

62 100

64 31.6 24.8 37.2





#5

Bromomethane

Concen: 88.105 ug/l

RT: 2.942 min Scan# 16

Delta R.T. -0.012 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 94 Resp: 158888

Ion Ratio Lower Upper

94 100

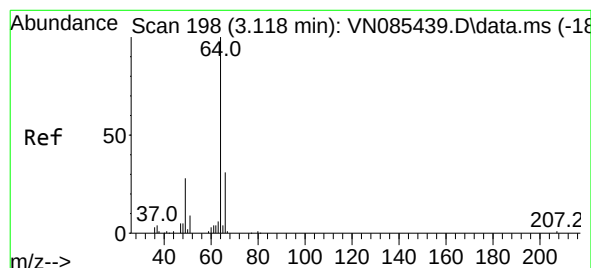
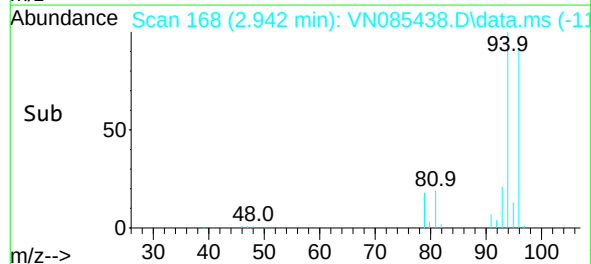
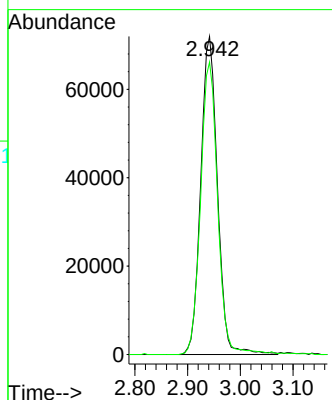
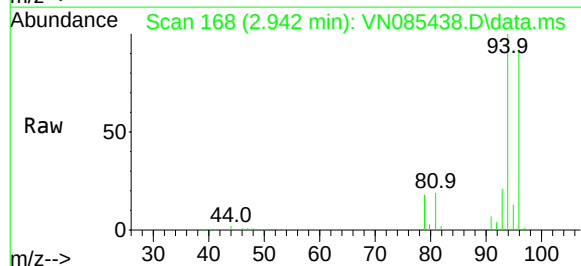
96 91.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 93.043 ug/l

RT: 3.112 min Scan# 197

Delta R.T. -0.006 min

Lab File: VN085438.D

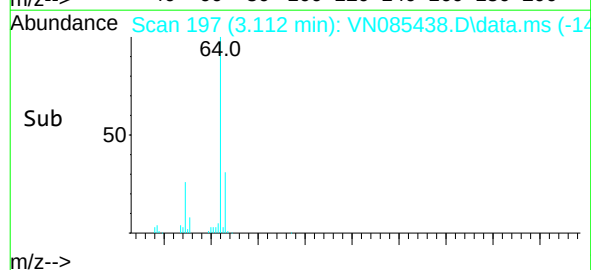
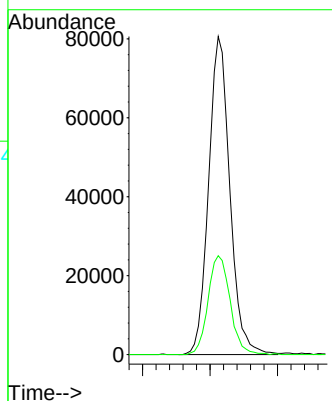
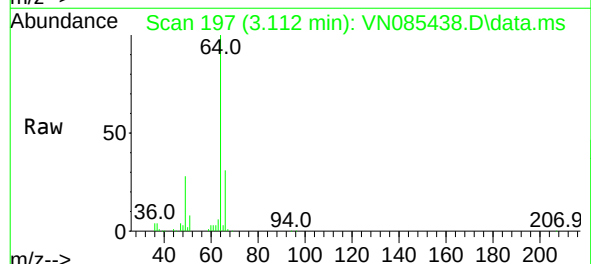
Acq: 14 Jan 2025 14:56

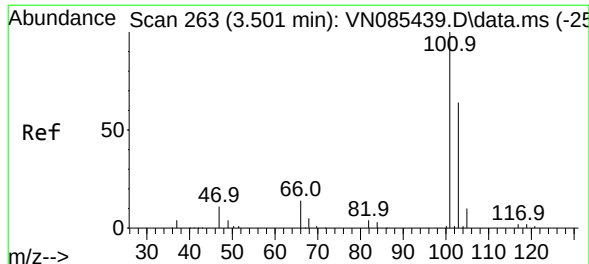
Tgt Ion: 64 Resp: 176111

Ion Ratio Lower Upper

64 100

66 31.1 24.6 36.8





#7

Trichlorofluoromethane

Concen: 97.870 ug/l

RT: 3.494 min Scan# 26

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 423967

Ion Ratio Lower Upper

101 100

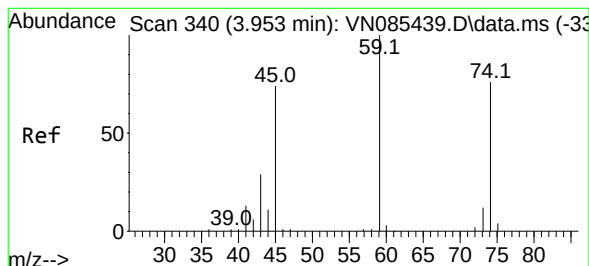
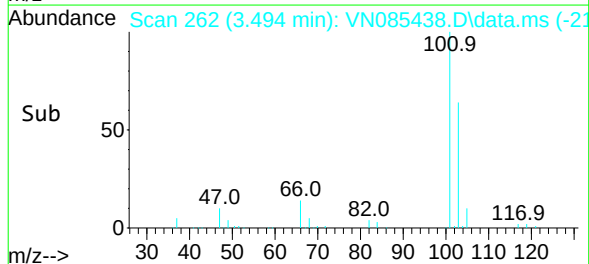
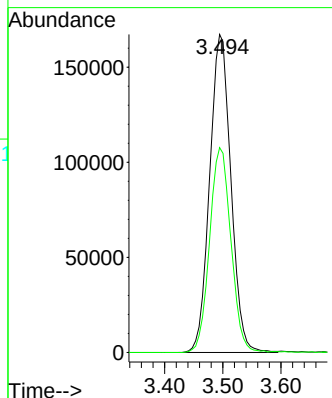
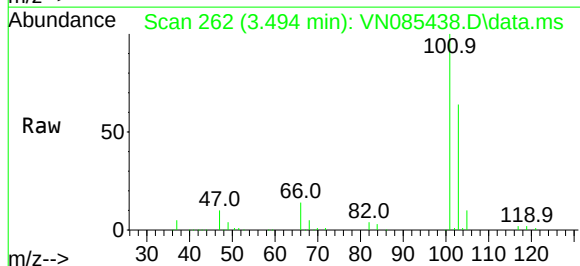
103 64.4 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 98.154 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.000 min

Lab File: VN085438.D

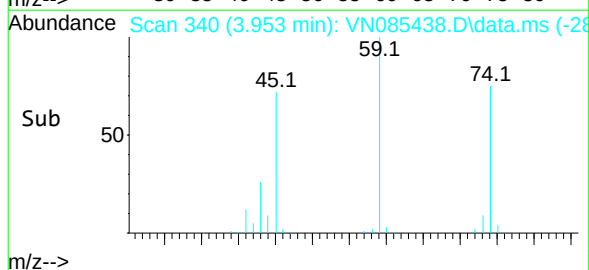
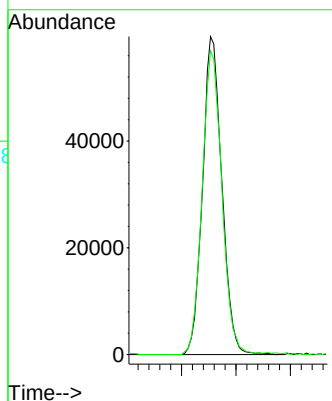
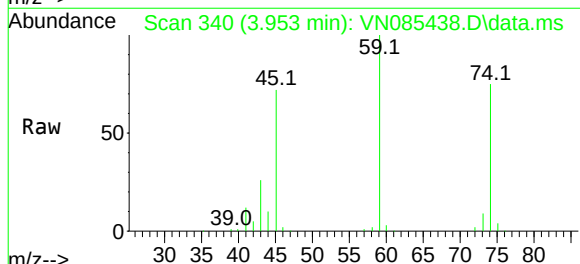
Acq: 14 Jan 2025 14:56

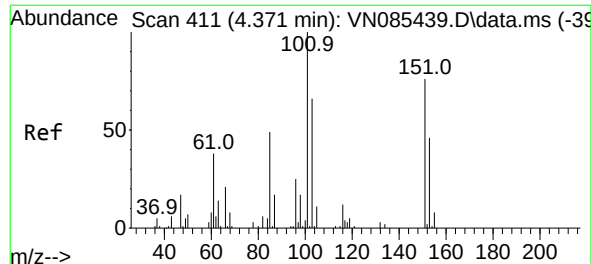
Tgt Ion: 74 Resp: 146889

Ion Ratio Lower Upper

74 100

45 97.4 49.7 149.1





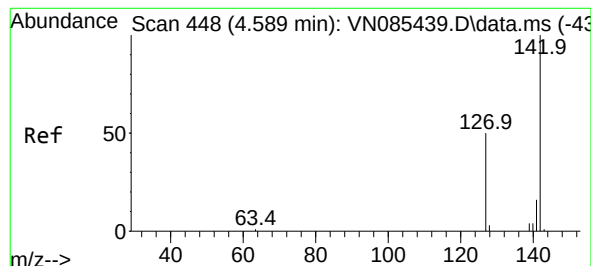
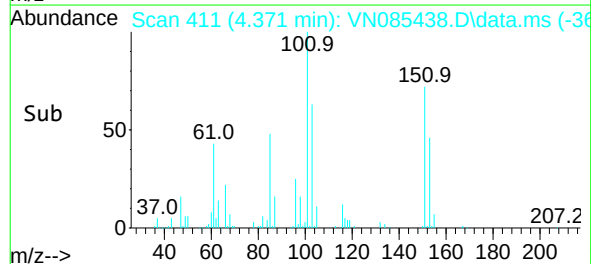
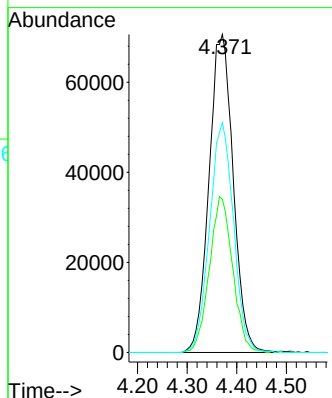
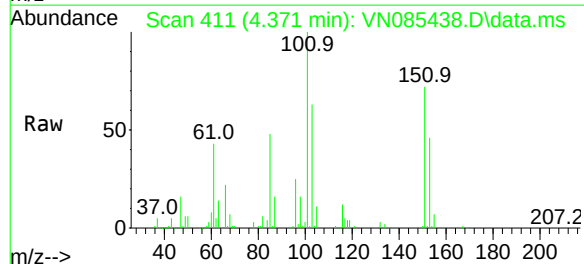
#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.997 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 239104
Ion Ratio Lower Upper
101 100
85 47.1 37.8 56.8
151 71.8 58.8 88.2

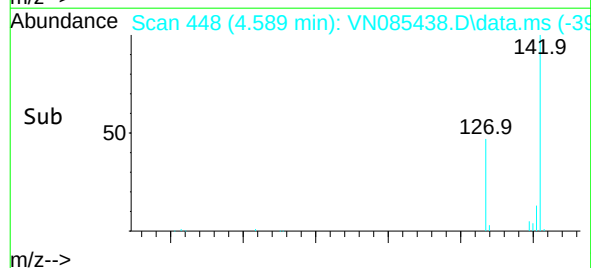
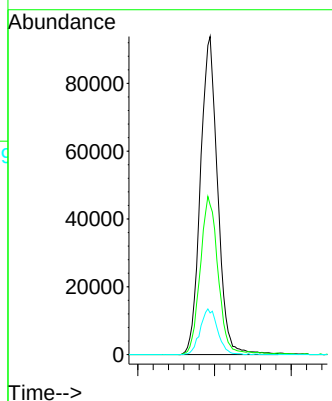
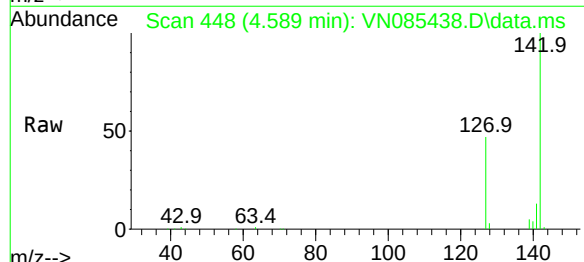
Manual Integrations
APPROVED

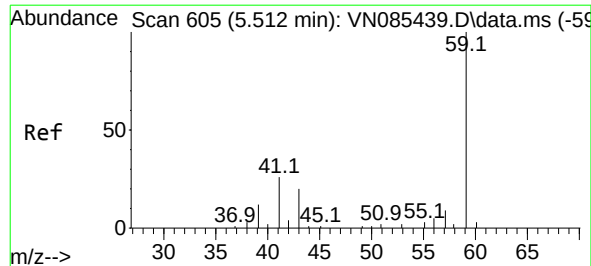
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 104.856 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:142 Resp: 292983
Ion Ratio Lower Upper
142 100
127 47.1 40.3 60.5
141 13.1 12.8 19.2





#11

Tert butyl alcohol

Concen: 462.061 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 173044

Ion Ratio Lower Upper

59 100

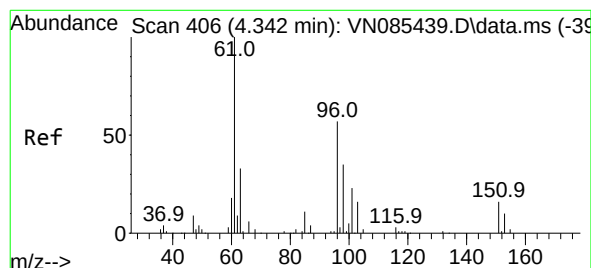
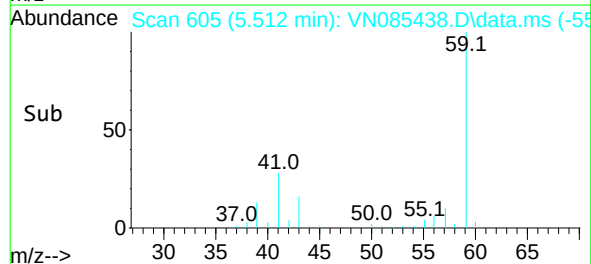
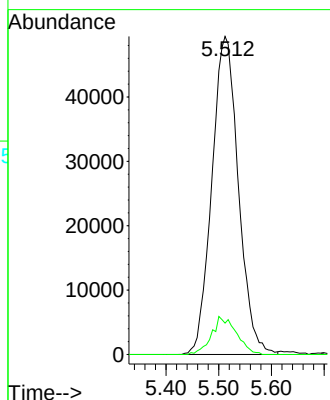
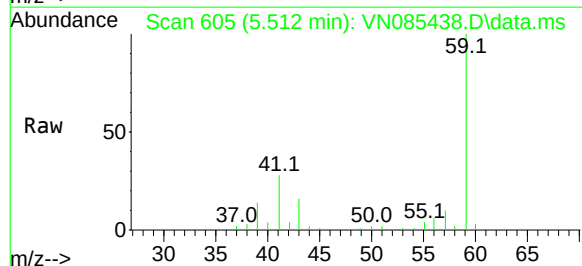
57 11.1 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 102.146 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

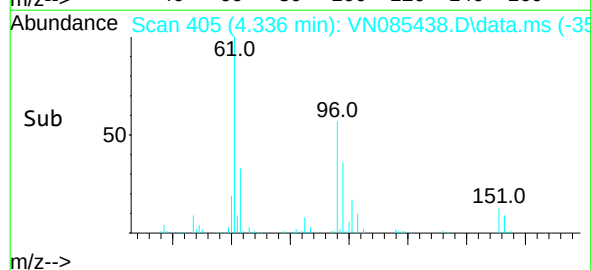
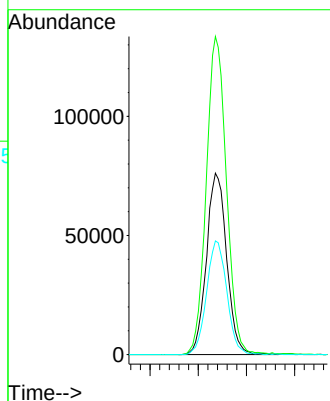
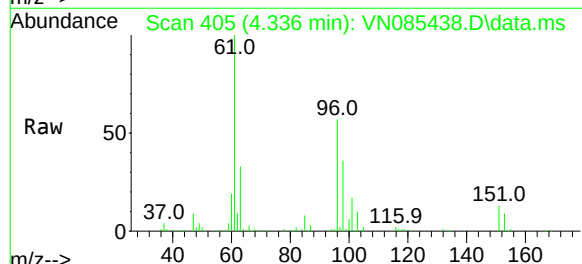
Tgt Ion: 96 Resp: 222117

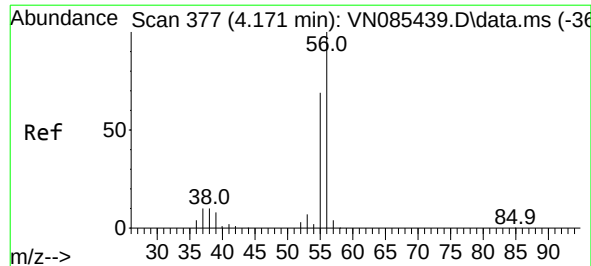
Ion Ratio Lower Upper

96 100

61 175.3 141.0 211.4

98 62.7 49.0 73.6





#13

Acrolein

Concen: 538.600 ug/l

RT: 4.171 min Scan# 377

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 275350

Ion Ratio Lower Upper

56 100

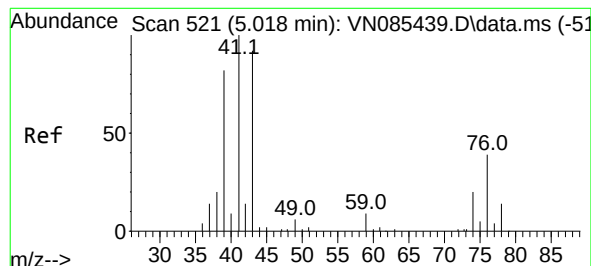
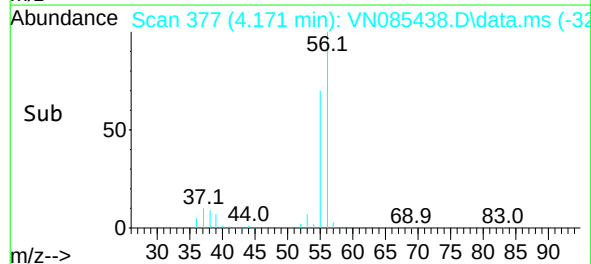
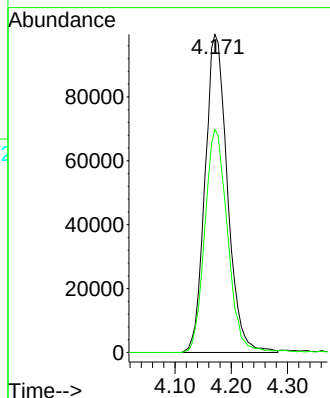
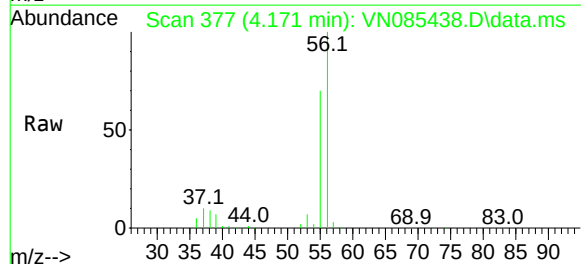
55 71.1 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 99.111 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

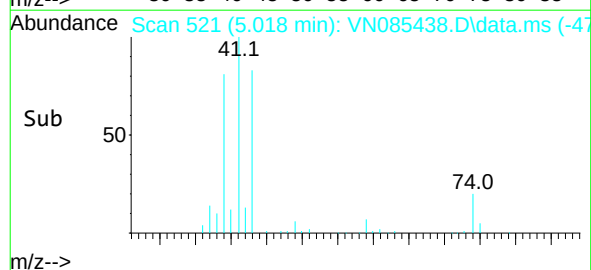
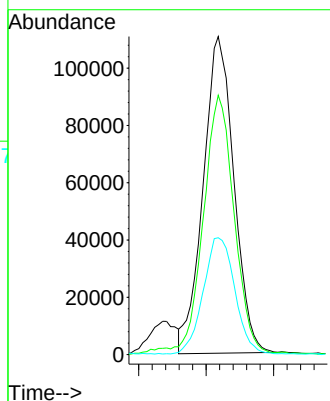
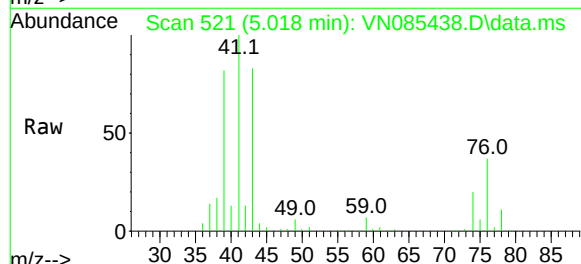
Tgt Ion: 41 Resp: 349717

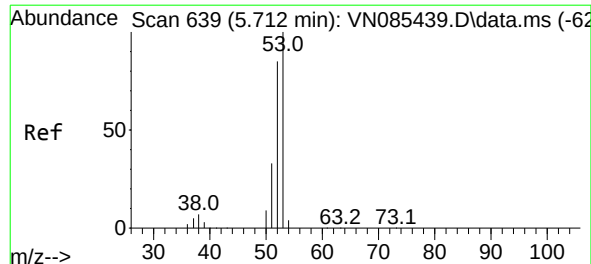
Ion Ratio Lower Upper

41 100

39 83.3 64.4 96.6

76 37.9 30.5 45.7





#15

Acrylonitrile

Concen: 492.095 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

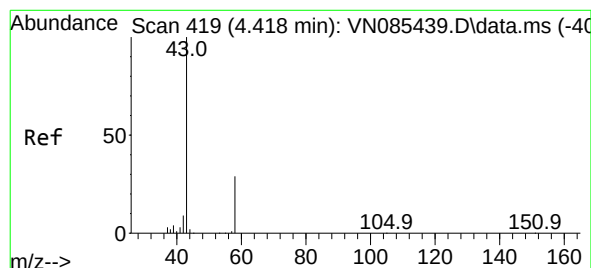
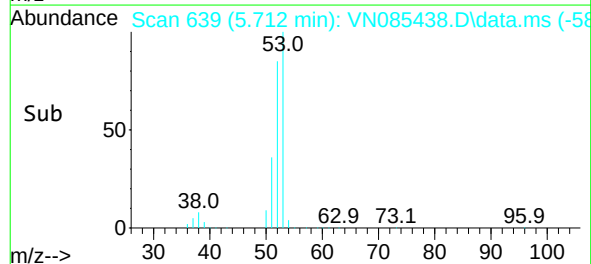
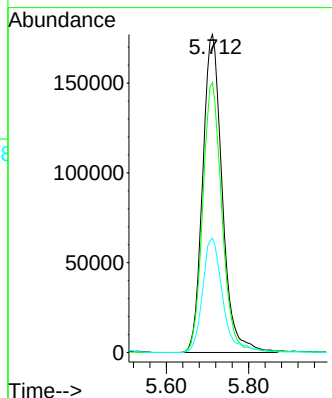
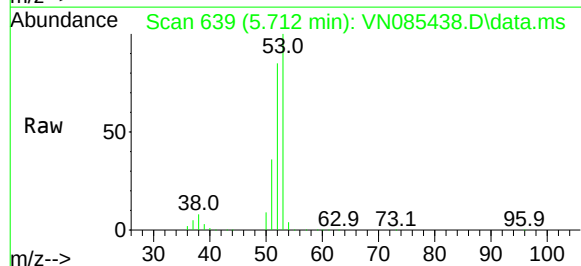
ClientSampleId :

VSTDICC100

Tgt Ion:	53	Resp:	585370
Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.5	98.3
51	37.1	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 457.268 ug/l

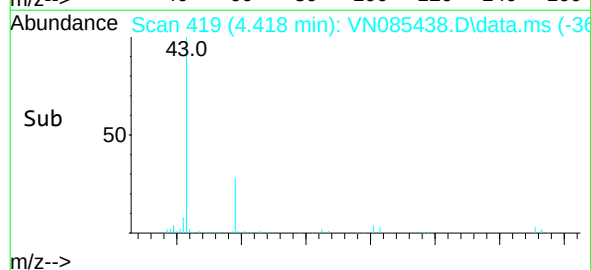
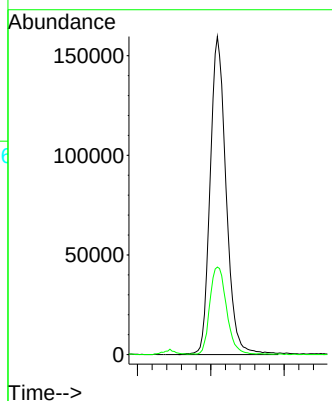
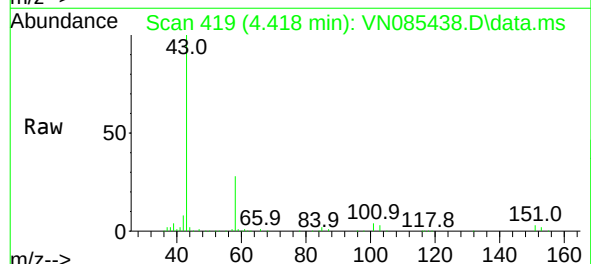
RT: 4.418 min Scan# 419

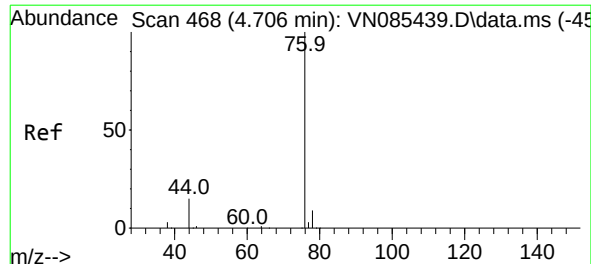
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	43	Resp:	483221
Ion	Ratio	Lower	Upper
43	100		
58	27.3	23.8	35.6





#17

Carbon Disulfide

Concen: 94.140 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 630294

Ion Ratio Lower Upper

76 100

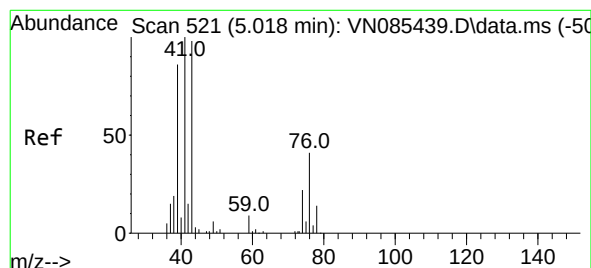
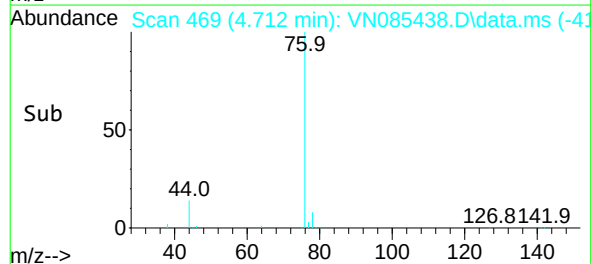
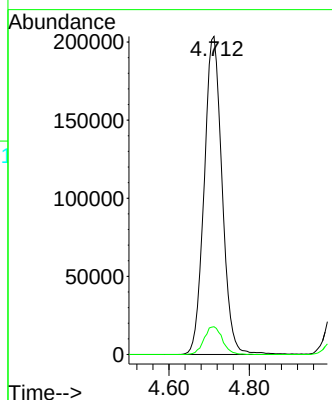
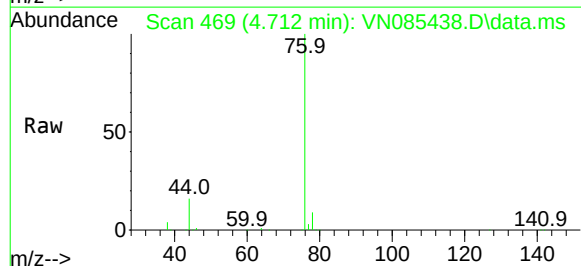
78 8.7 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 94.674 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN085438.D

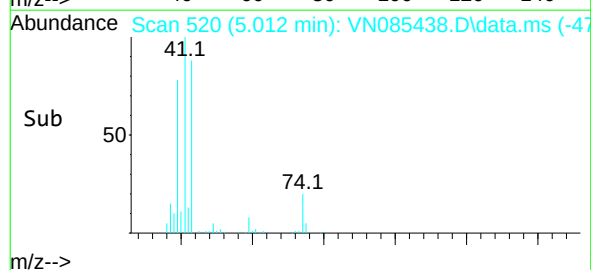
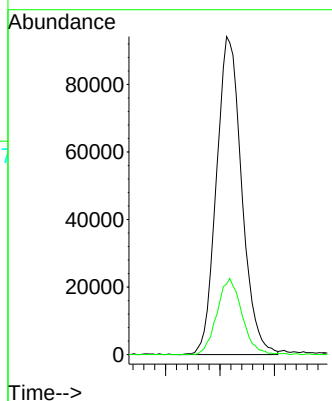
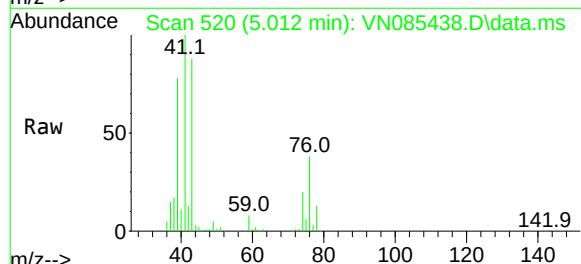
Acq: 14 Jan 2025 14:56

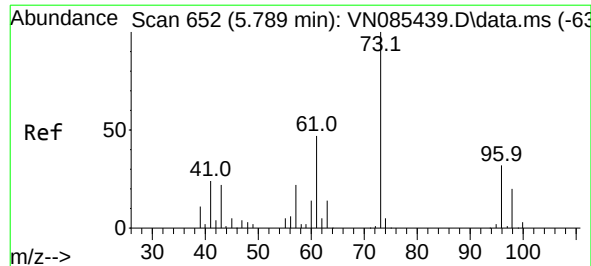
Tgt Ion: 43 Resp: 304226

Ion Ratio Lower Upper

43 100

74 23.6 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 105.230 ug/l

RT: 5.788 min Scan# 65

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 743008

Ion Ratio Lower Upper

73 100

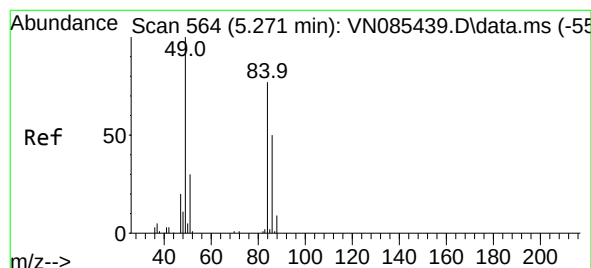
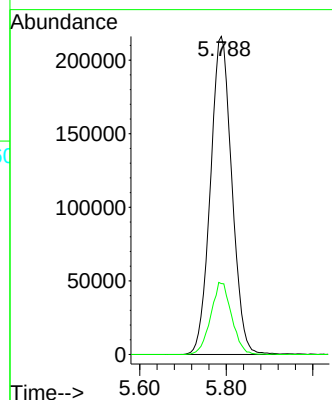
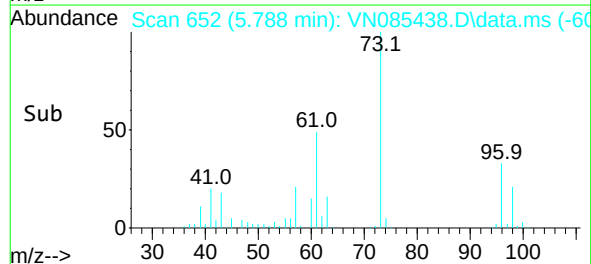
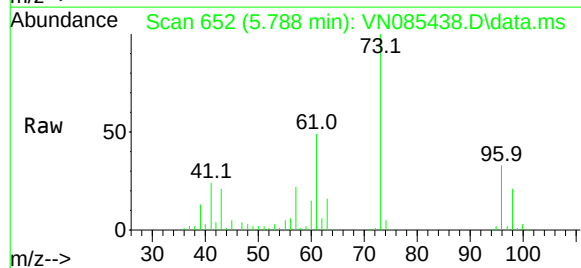
57 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 97.440 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 84 Resp: 254912

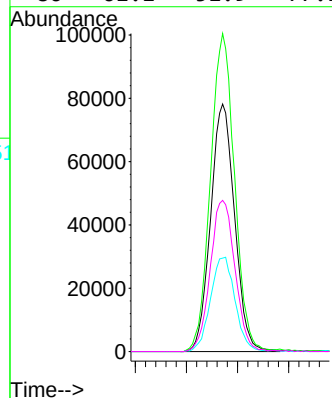
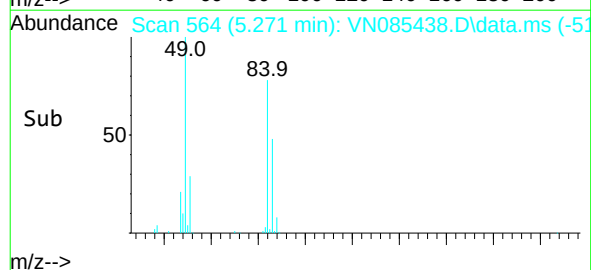
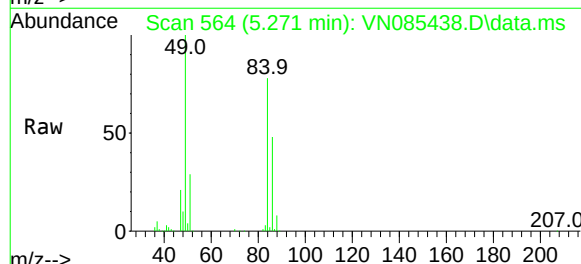
Ion Ratio Lower Upper

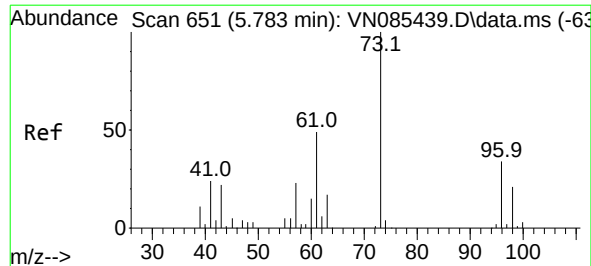
84 100

49 128.5 104.1 156.1

51 37.8 31.0 46.4

86 61.1 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 99.618 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.000 min

Lab File: VN085438.D

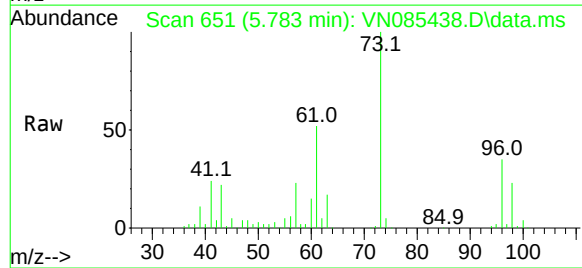
Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

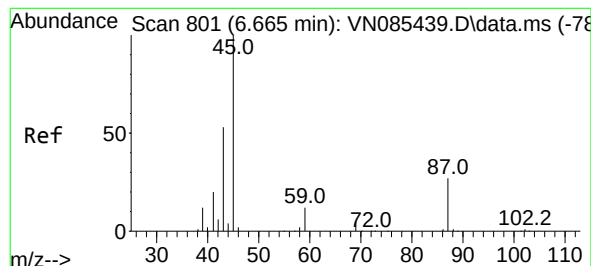
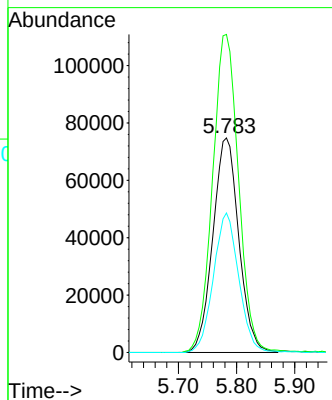
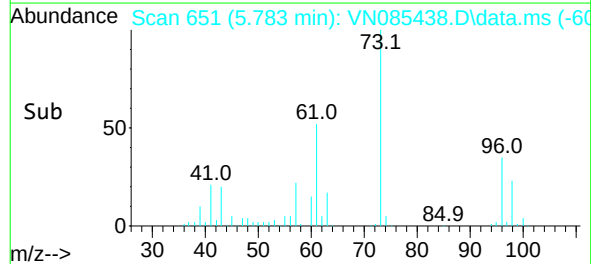
VSTDICC100



Tgt Ion:	96	Resp:	231503
Ion	Ratio	Lower	Upper
96	100		
61	148.3	115.7	173.5
98	65.0	49.8	74.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

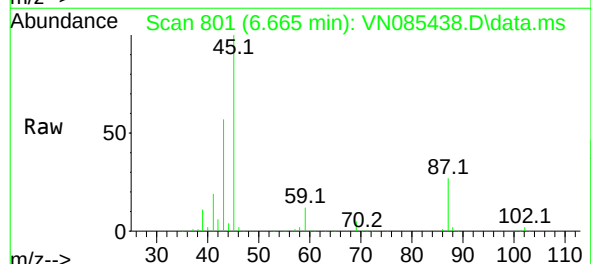
Concen: 104.812 ug/l

RT: 6.665 min Scan# 801

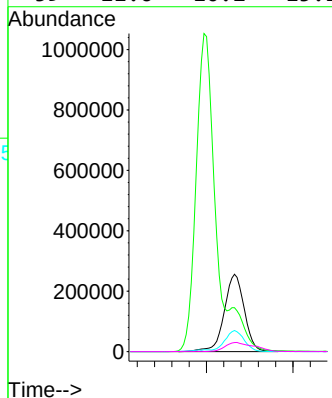
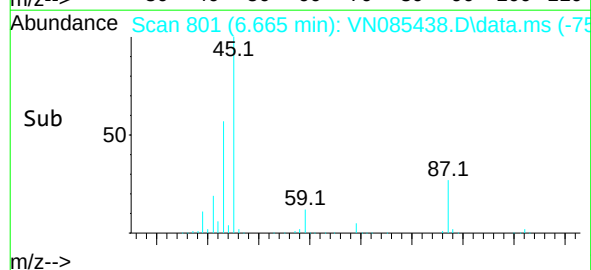
Delta R.T. -0.000 min

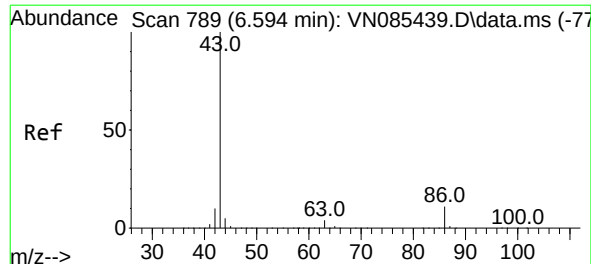
Lab File: VN085438.D

Acq: 14 Jan 2025 14:56



Tgt Ion:	45	Resp:	820871
Ion	Ratio	Lower	Upper
45	100		
43	55.7	45.0	67.6
87	27.2	21.8	32.8
59	11.6	10.2	15.2





#23

Vinyl Acetate

Concen: 550.850 ug/l

RT: 6.594 min Scan# 789

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 3029568

Ion Ratio Lower Upper

43 100

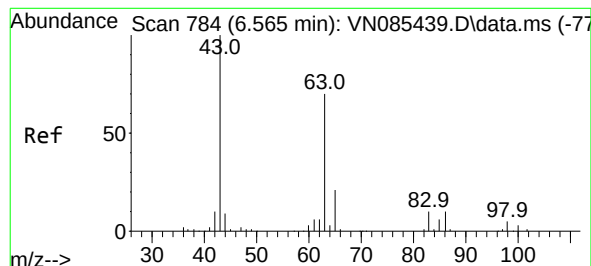
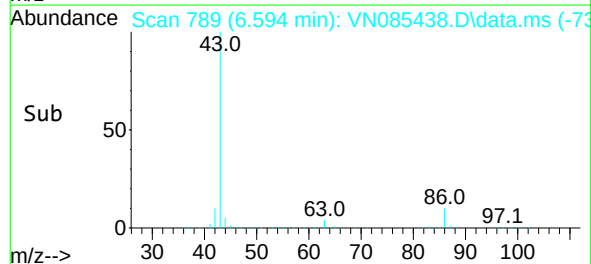
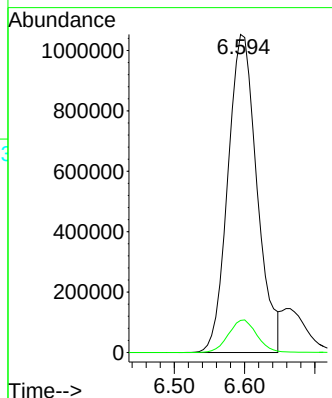
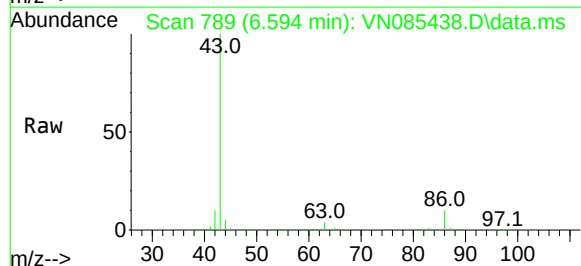
86 10.1 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 98.803 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

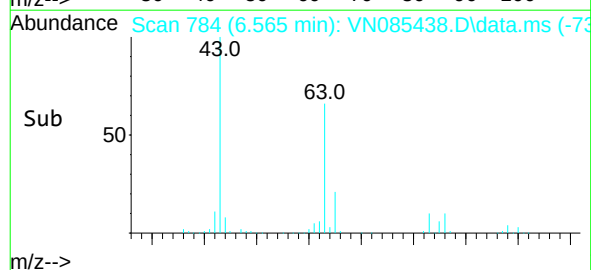
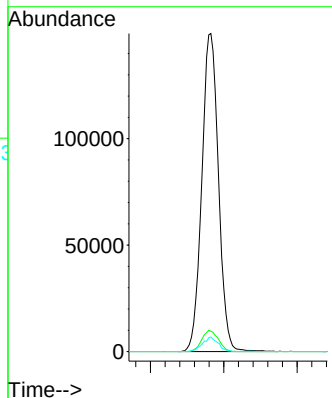
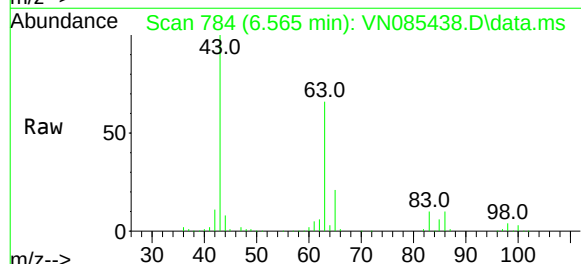
Tgt Ion: 63 Resp: 471831

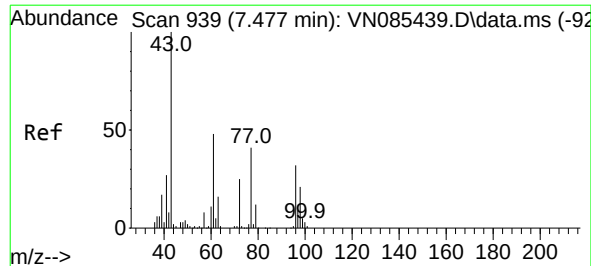
Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.8

100 4.6 2.0 6.0





#25

2-Butanone

Concen: 491.912 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 764979

Ion Ratio Lower Upper

43 100

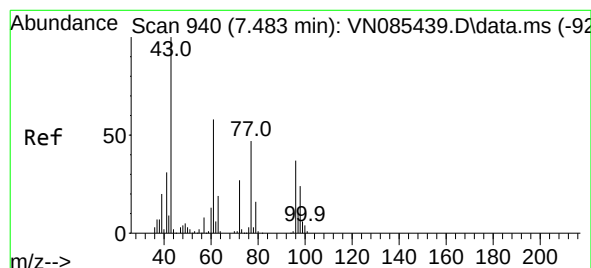
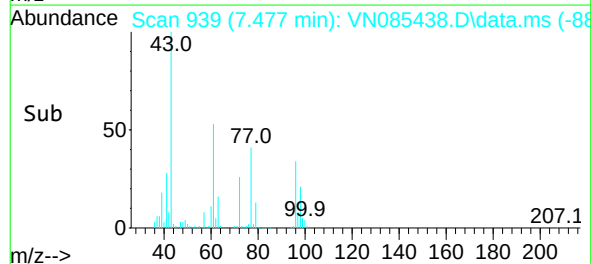
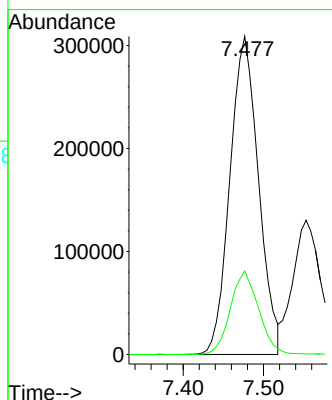
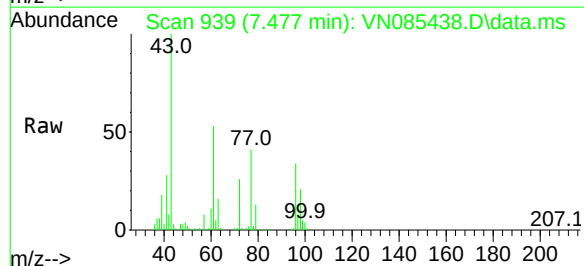
72 26.3 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 100.530 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085438.D

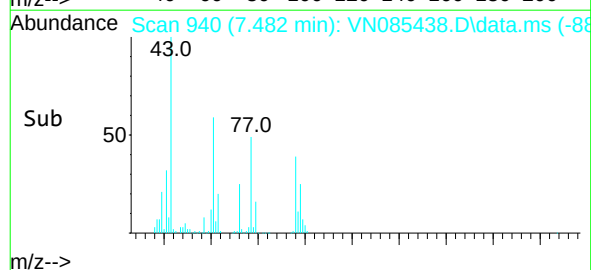
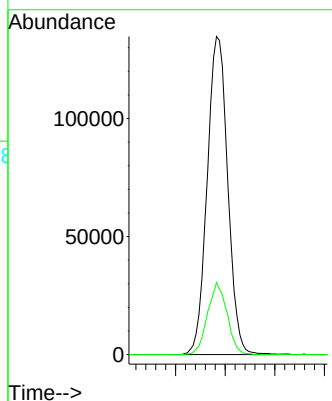
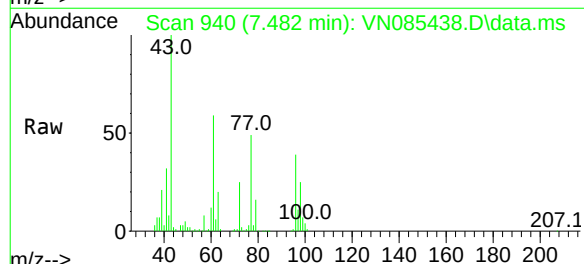
Acq: 14 Jan 2025 14:56

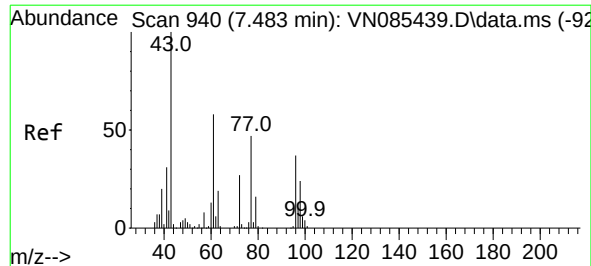
Tgt Ion: 77 Resp: 388140

Ion Ratio Lower Upper

77 100

97 21.4 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 102.367 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

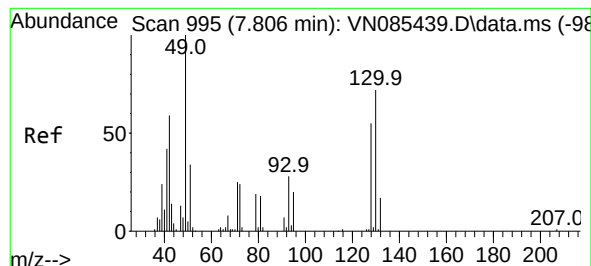
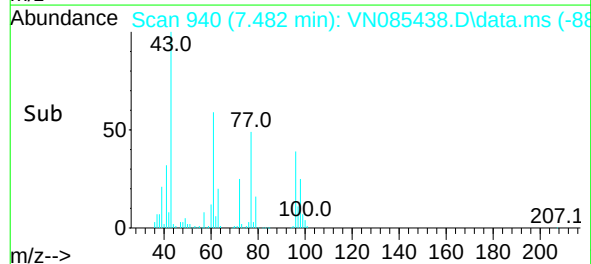
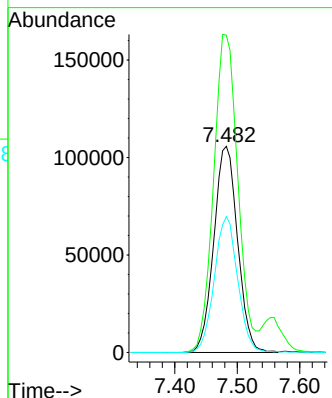
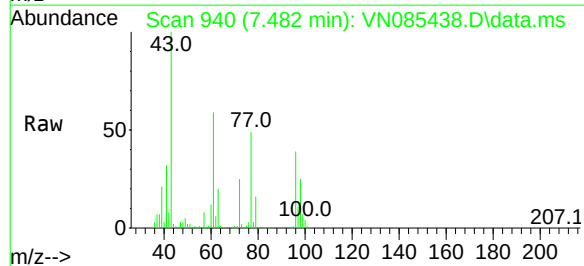
ClientSampleId :

VSTDICC100

Tgt Ion:	96	Resp:	280197
Ion	Ratio	Lower	Upper
96	100		
61	156.8	0.0	311.8
98	65.0	0.0	126.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28

Bromochloromethane

Concen: 96.679 ug/l

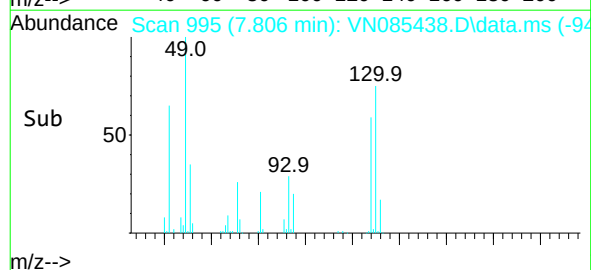
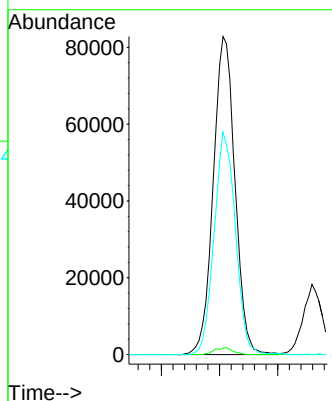
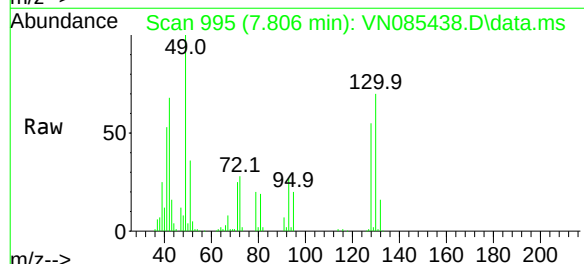
RT: 7.806 min Scan# 995

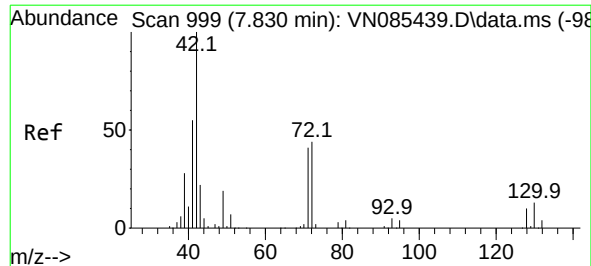
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	49	Resp:	214796
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.4
130	68.4	55.0	82.4





#29

Tetrahydrofuran

Concen: 510.635 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 503459

Ion Ratio Lower Upper

42 100

72 43.1 34.2 51.2

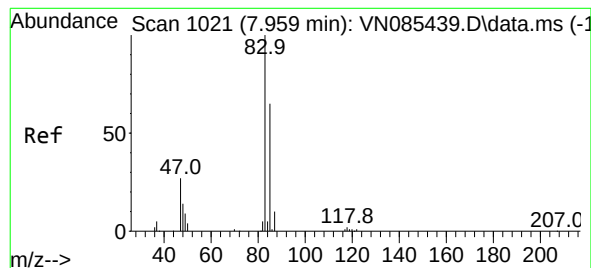
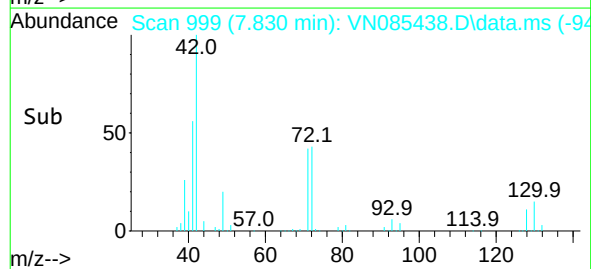
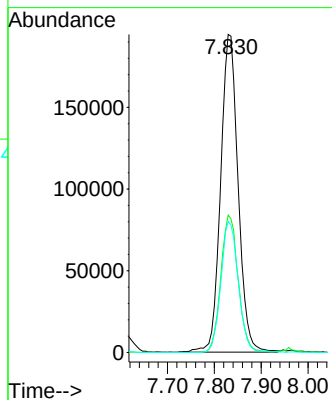
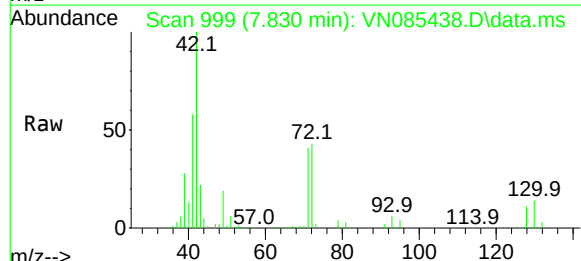
71 40.9 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 98.253 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085438.D

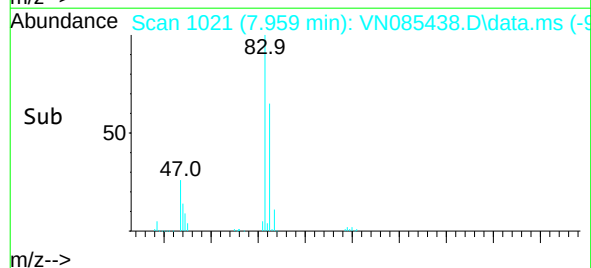
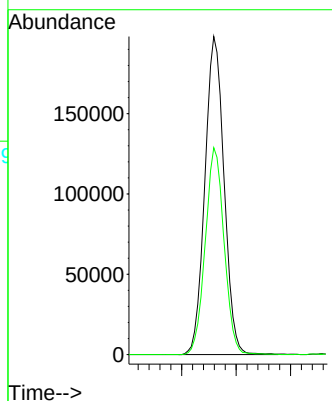
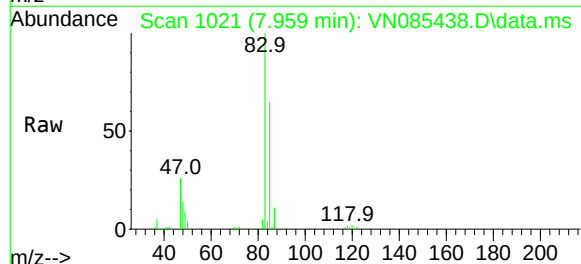
Acq: 14 Jan 2025 14:56

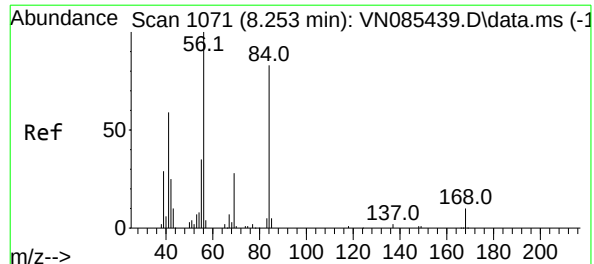
Tgt Ion: 83 Resp: 484941

Ion Ratio Lower Upper

83 100

85 65.0 51.8 77.6





#31

Cyclohexane

Concen: 96.041 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 398641

Ion Ratio Lower Upper

56 100

69 29.2 22.2 33.4

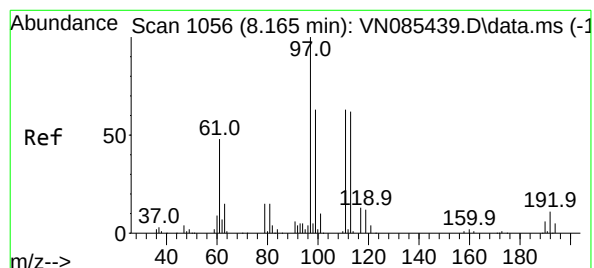
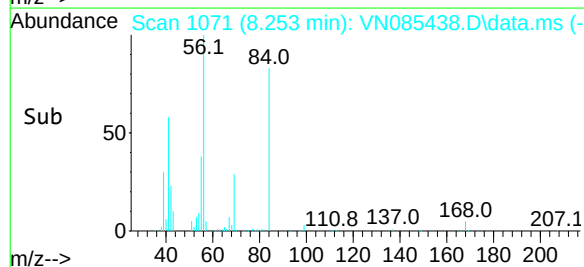
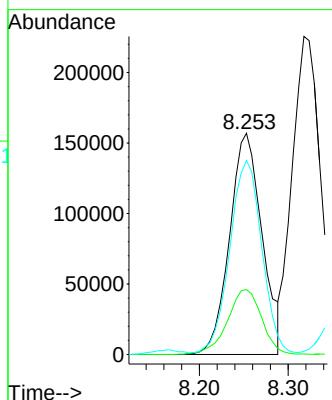
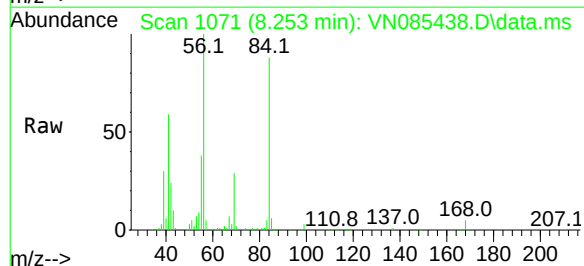
84 86.4 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 98.578 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

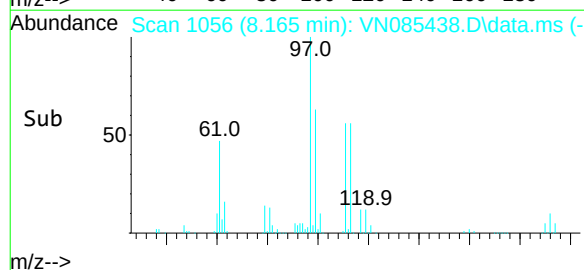
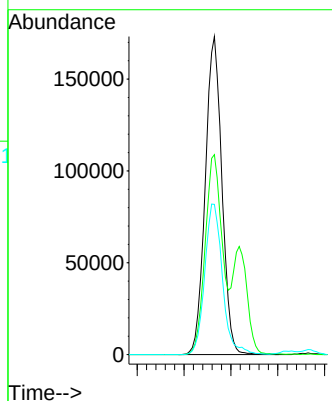
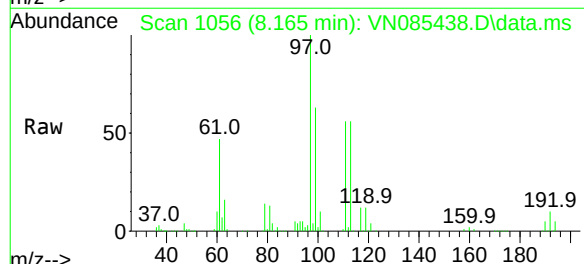
Tgt Ion: 97 Resp: 426782

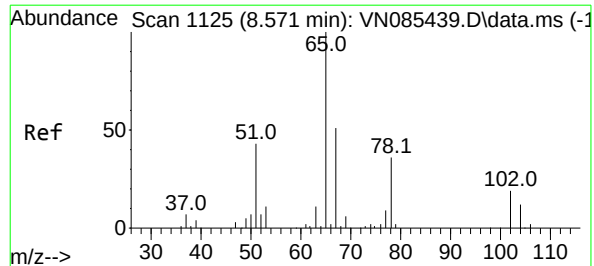
Ion Ratio Lower Upper

97 100

99 64.2 49.8 74.6

61 50.6 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 95.899 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 313645

Ion Ratio Lower Upper

65 100

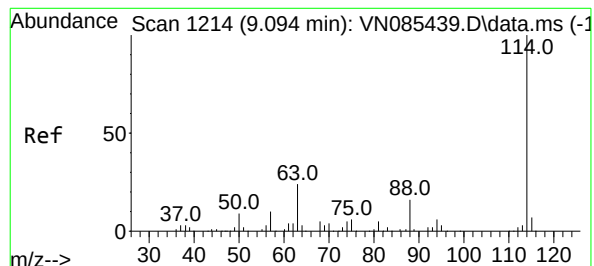
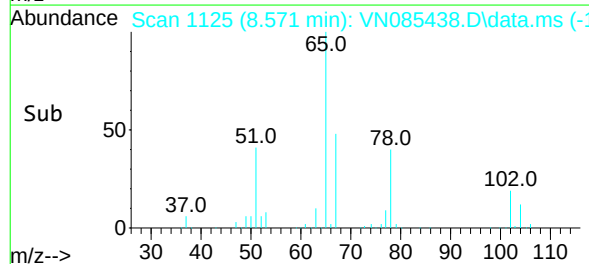
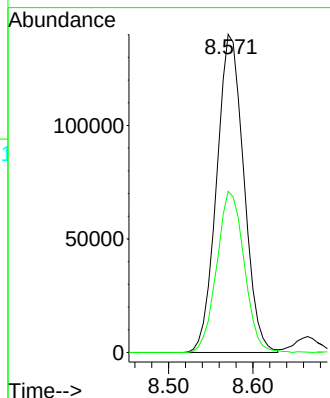
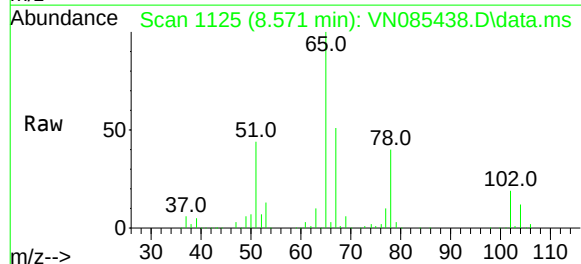
67 51.1 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

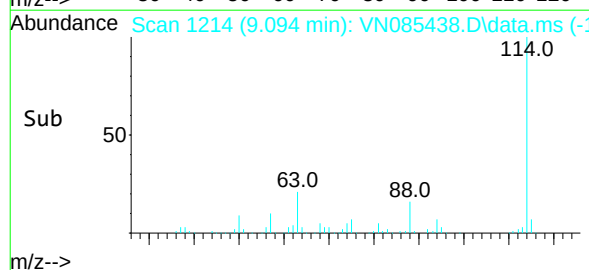
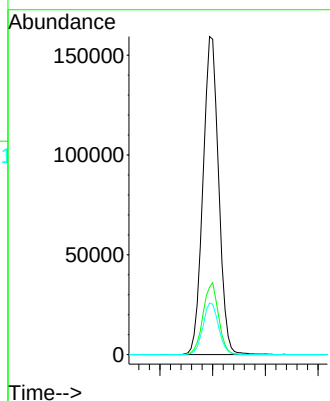
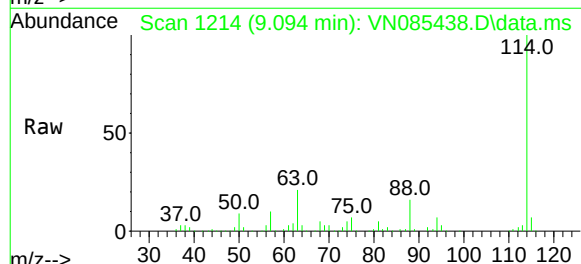
Tgt Ion:114 Resp: 329363

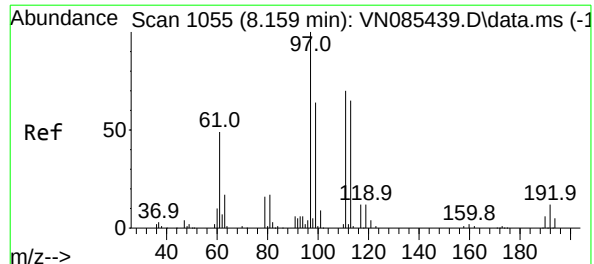
Ion Ratio Lower Upper

114 100

63 21.2 0.0 47.6

88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 103.353 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 236159

Ion Ratio Lower Upper

113 100

111 102.3 82.7 124.1

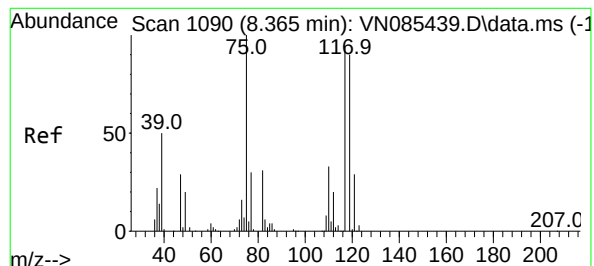
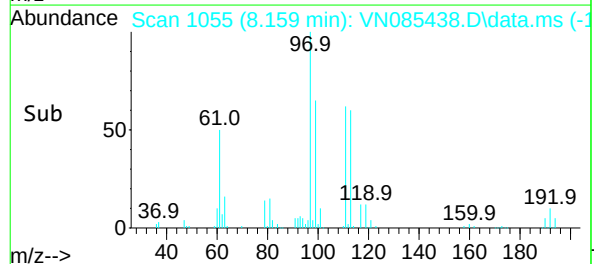
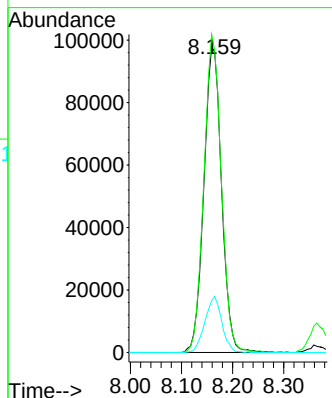
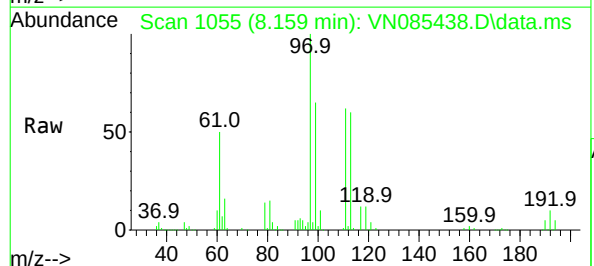
192 17.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 106.945 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

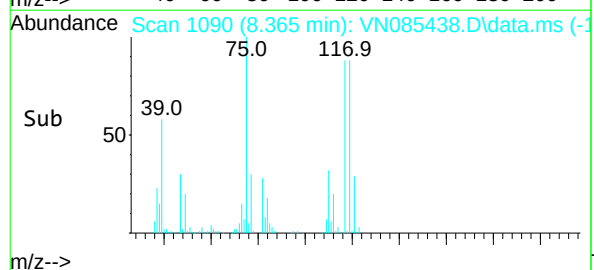
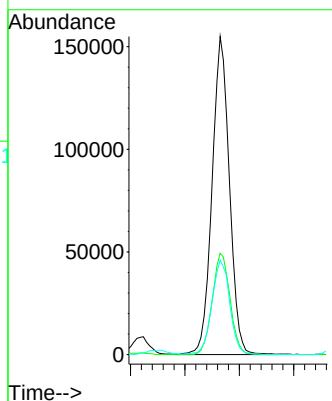
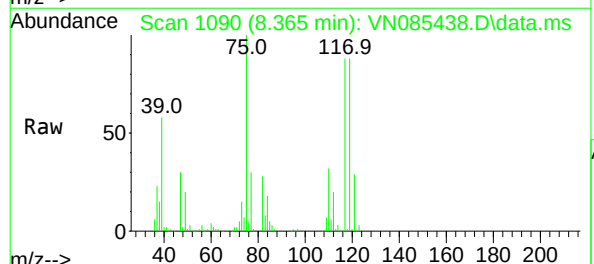
Tgt Ion: 75 Resp: 342961

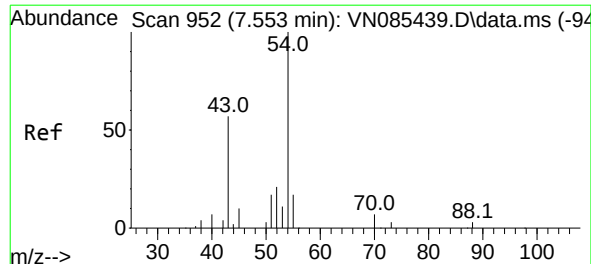
Ion Ratio Lower Upper

75 100

110 32.6 16.5 49.5

77 30.6 24.4 36.6





#37

Ethyl Acetate

Concen: 100.961 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

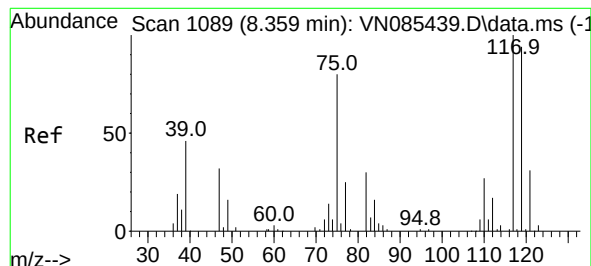
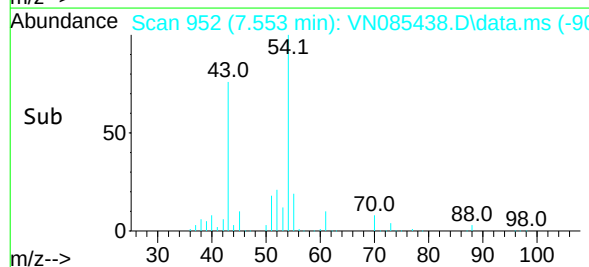
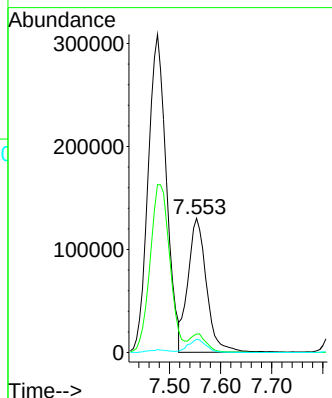
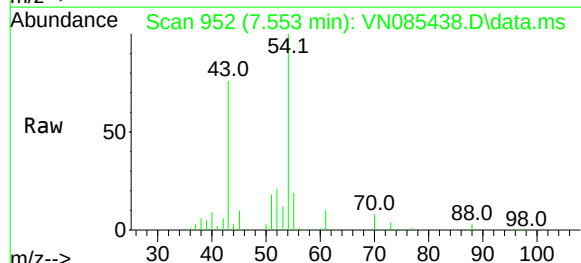
VSTDICC100

Tgt Ion:	43	Resp:	326802
Ion	Ratio	Lower	Upper
43	100		
61	12.0	10.9	16.3
70	9.6	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 103.065 ug/l

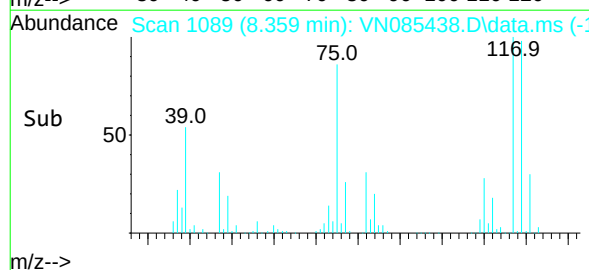
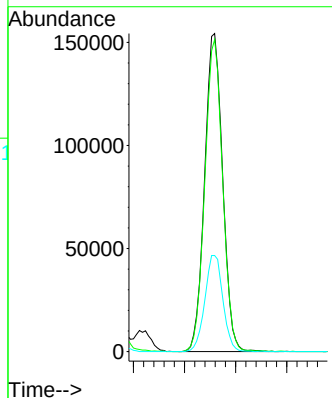
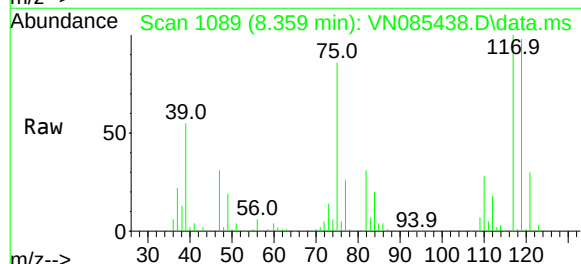
RT: 8.359 min Scan# 1089

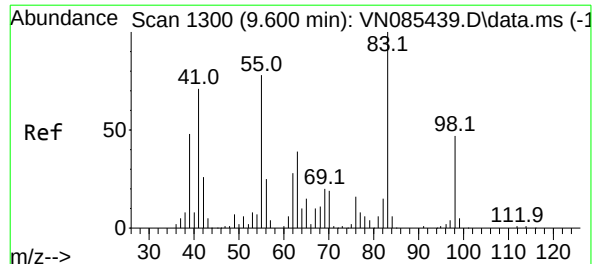
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	117	Resp:	378390
Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.4	113.2
121	30.2	24.6	37.0





#39

Methylcyclohexane

Concen: 123.354 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

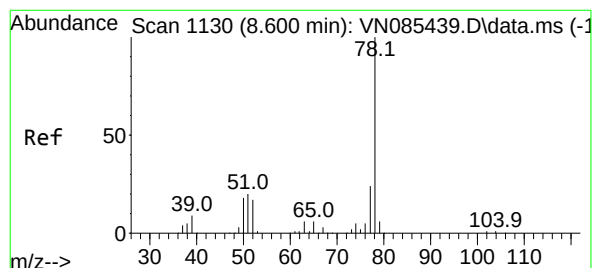
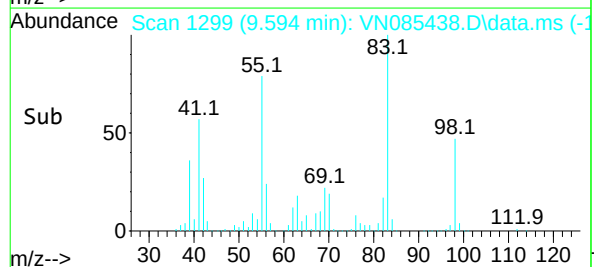
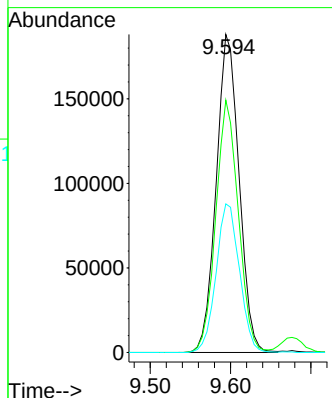
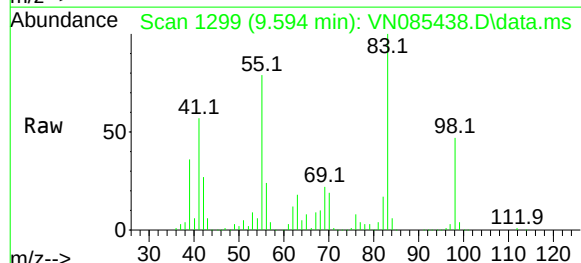
ClientSampleId :

VSTDICC100

Tgt Ion:	83	Resp:	371734
Ion	Ratio	Lower	Upper
83	100		
55	79.3	62.6	94.0
98	46.7	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 106.001 ug/l

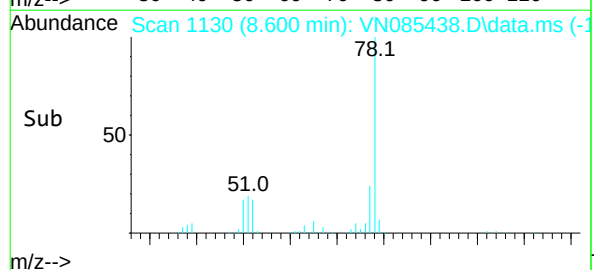
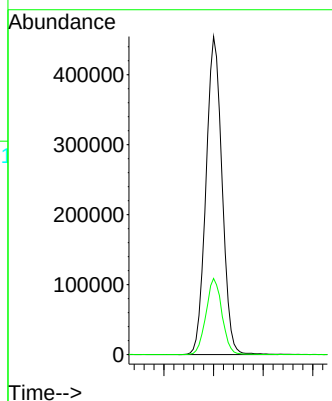
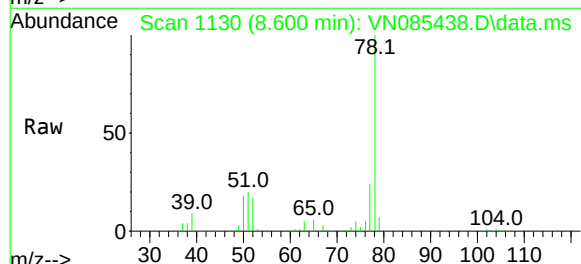
RT: 8.600 min Scan# 1130

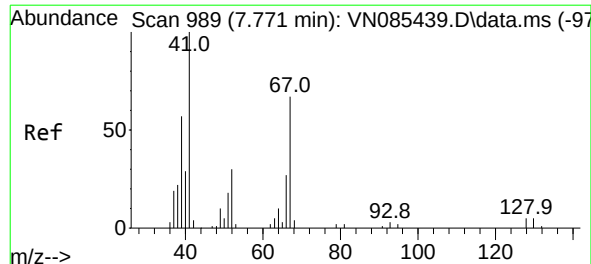
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	78	Resp:	1021393
Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6





#41

Methacrylonitrile

Concen: 109.454 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 184326

Ion Ratio Lower Upper

41 100

39 52.8 46.0 69.0

67 68.8 57.4 86.2

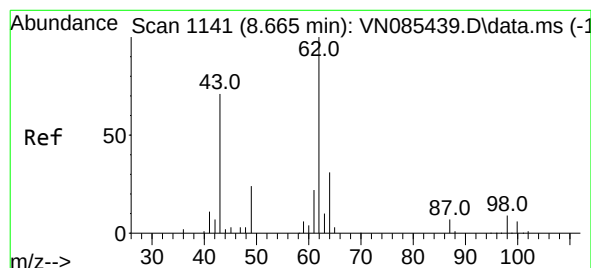
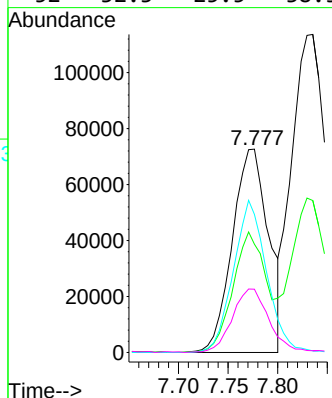
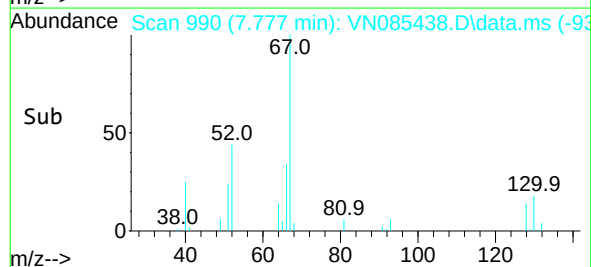
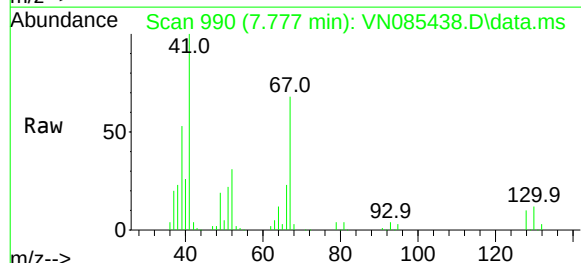
52 32.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 103.314 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085438.D

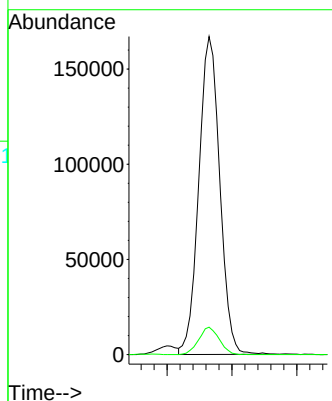
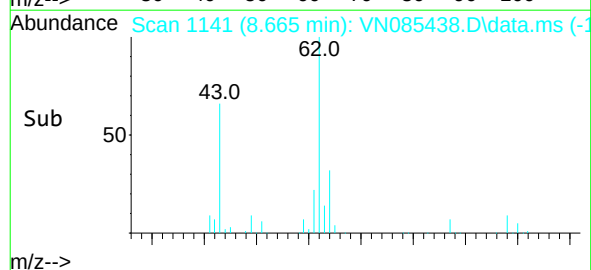
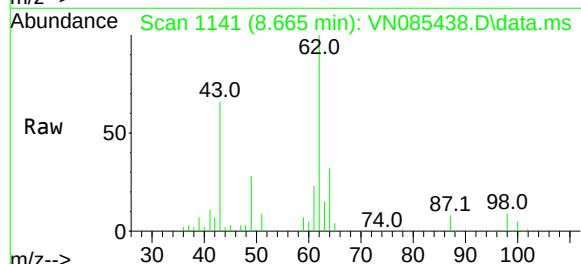
Acq: 14 Jan 2025 14:56

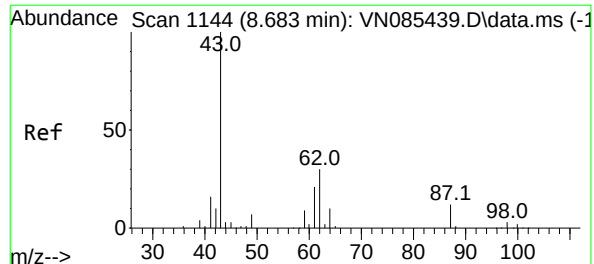
Tgt Ion: 62 Resp: 374938

Ion Ratio Lower Upper

62 100

98 8.4 0.0 17.0





#43

Isopropyl Acetate

Concen: 106.035 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

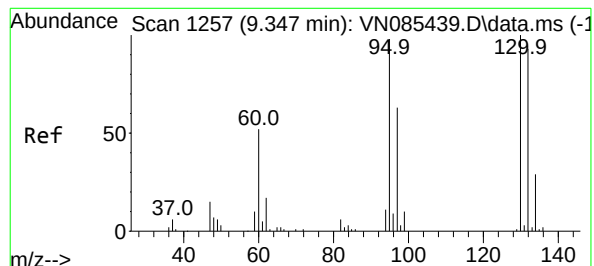
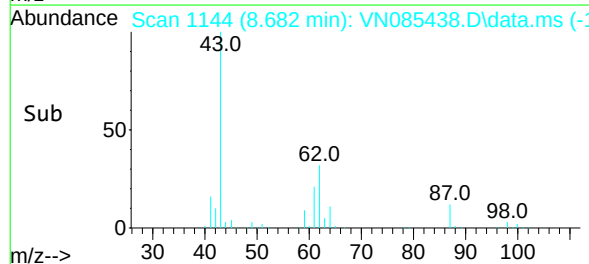
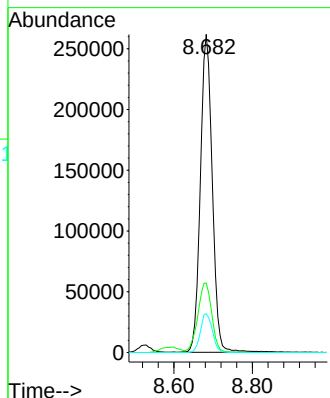
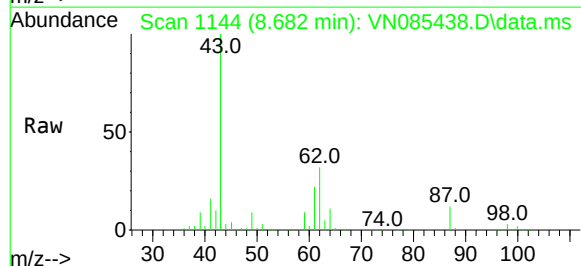
VSTDICC100

Tgt Ion:	43	Resp:	549969
Ion	Ratio	Lower	Upper
43	100		
61	25.7	20.7	31.1
87	12.2	9.8	14.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 106.242 ug/l

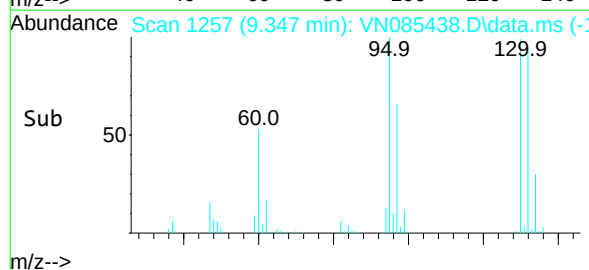
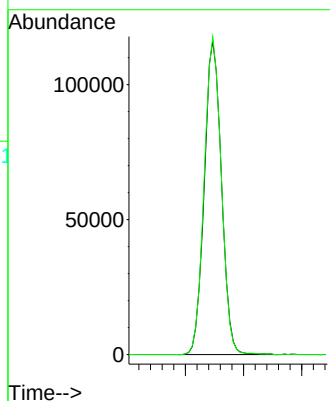
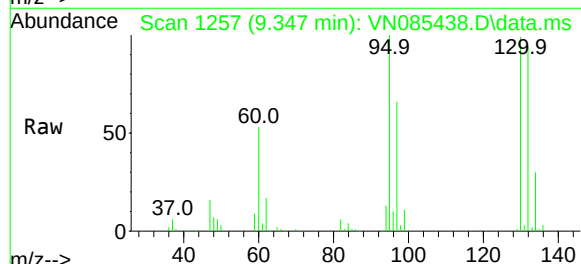
RT: 9.347 min Scan# 1257

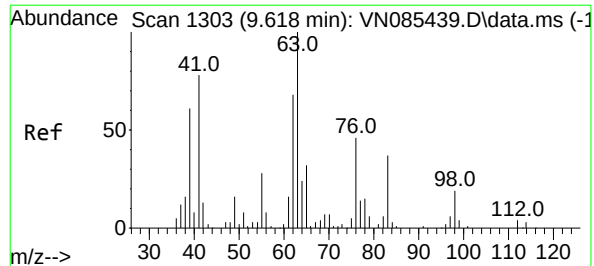
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	130	Resp:	238296
Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	195.8





#45

1,2-Dichloropropane

Concen: 104.405 ug/l

RT: 9.618 min Scan# 13

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 256964

Ion Ratio Lower Upper

63 100

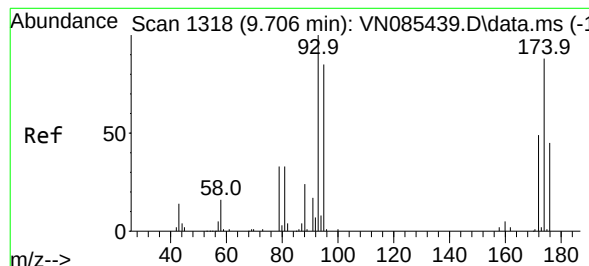
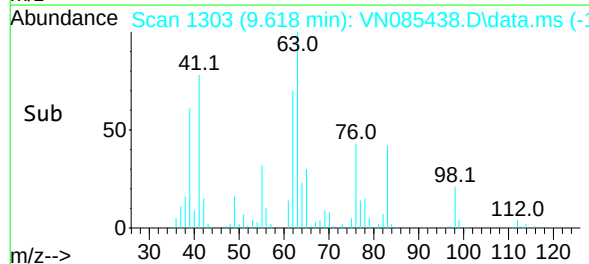
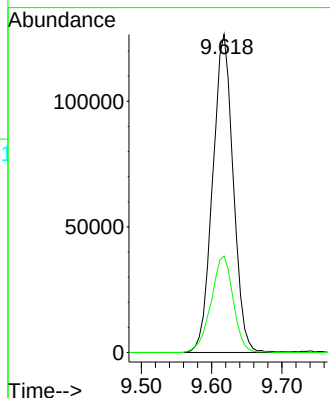
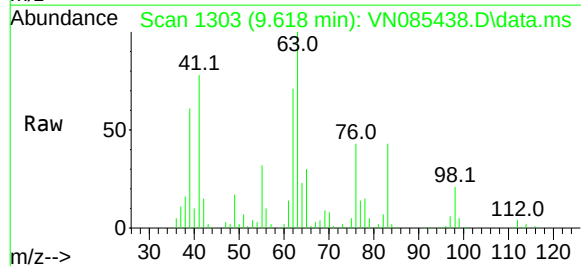
65 30.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 101.913 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

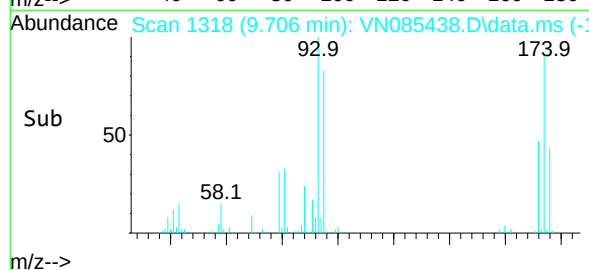
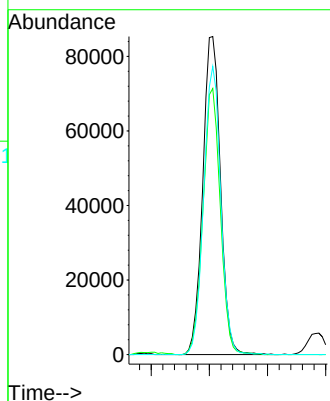
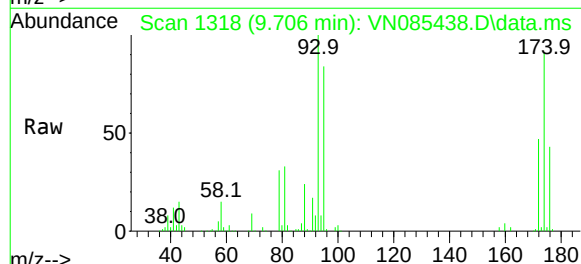
Tgt Ion: 93 Resp: 180990

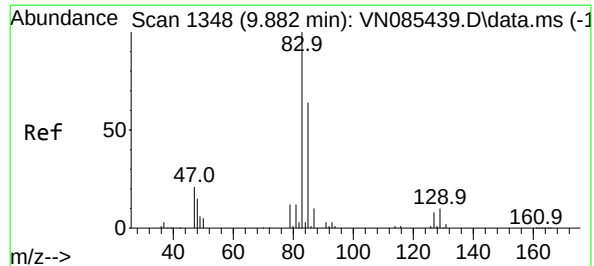
Ion Ratio Lower Upper

93 100

95 81.6 64.7 97.1

174 87.5 69.0 103.4





#47

Bromodichloromethane

Concen: 107.377 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

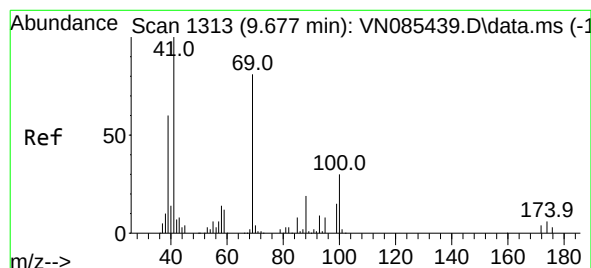
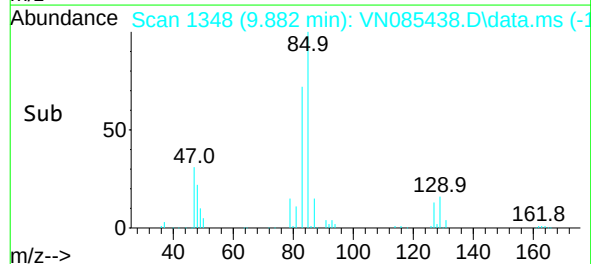
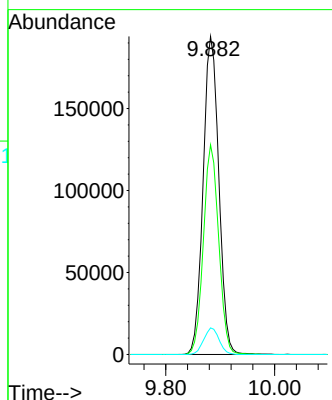
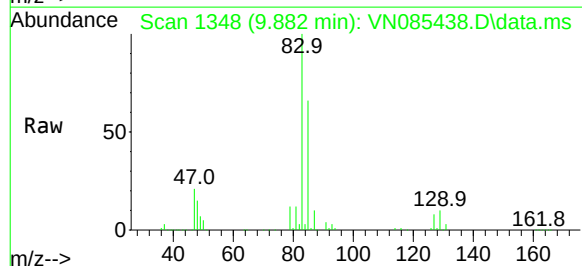
ClientSampleId :

VSTDICC100

Tgt Ion:	83	Resp:	388499
Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.2	76.8
127	8.4	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 114.685 ug/l

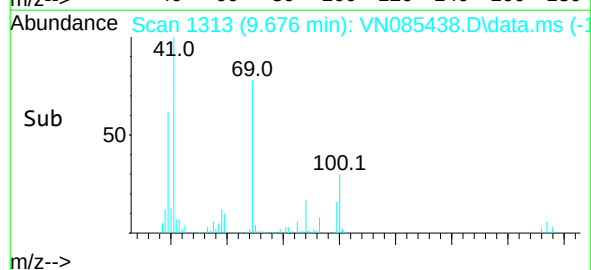
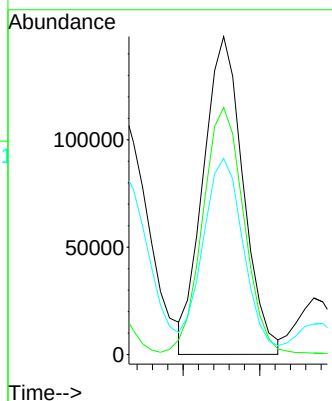
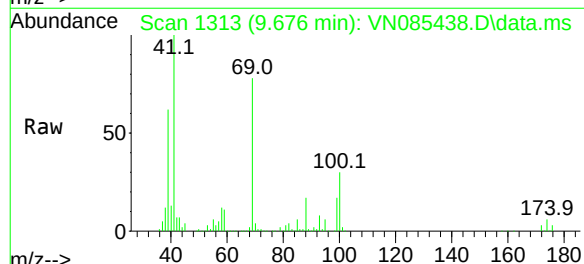
RT: 9.676 min Scan# 1313

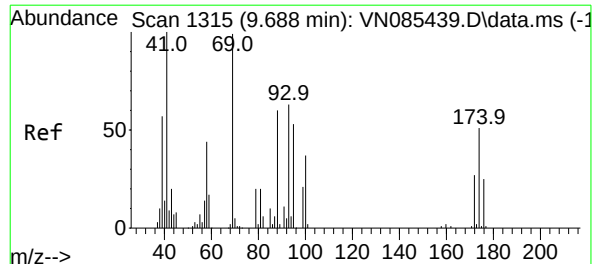
Delta R.T. -0.001 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	41	Resp:	267689
Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	63.1	49.0	73.6





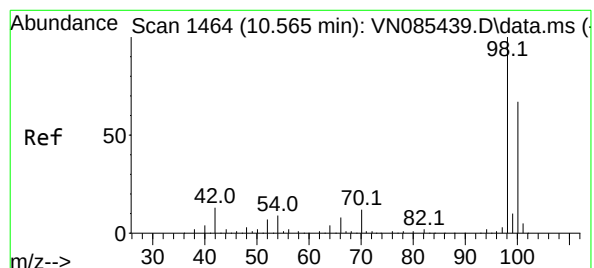
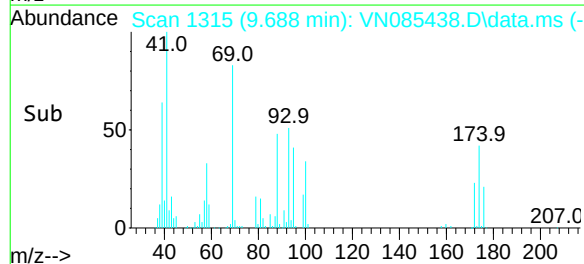
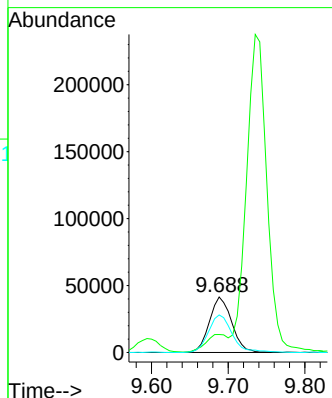
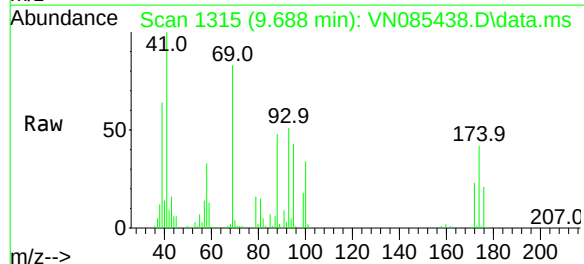
#49
1,4-Dioxane
Concen: 2133.992 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 83879
Ion Ratio Lower Upper
88 100
43 31.3 26.6 39.8
58 72.1 59.5 89.3

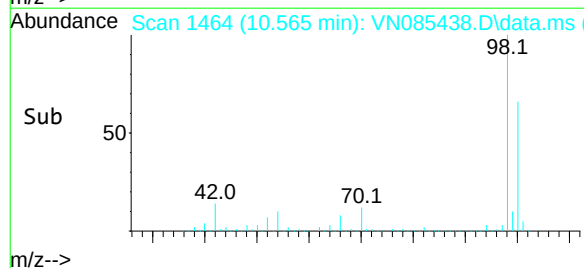
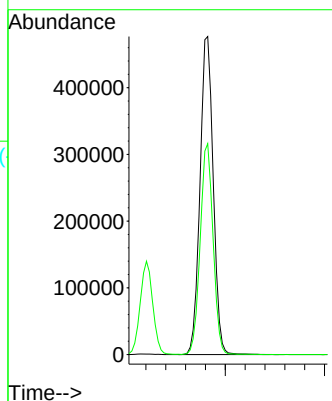
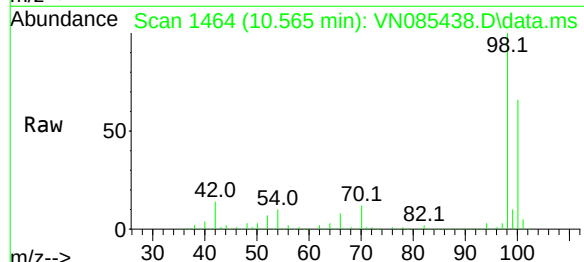
Manual Integrations
APPROVED

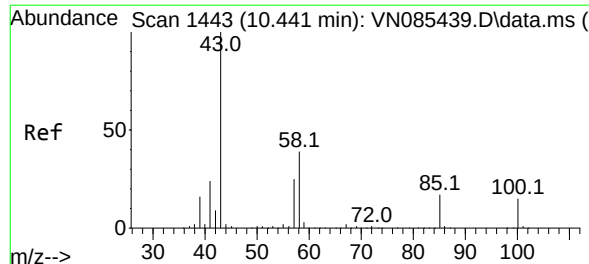
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#50
Toluene-d8
Concen: 108.636 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 98 Resp: 881956
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.4





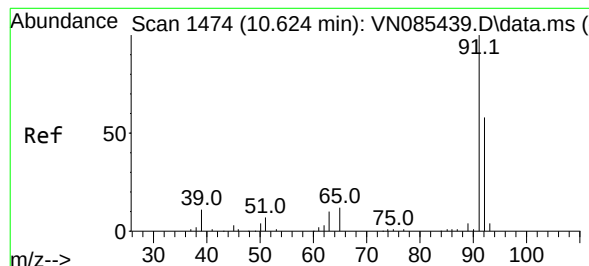
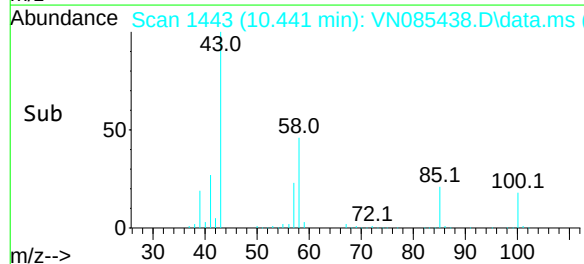
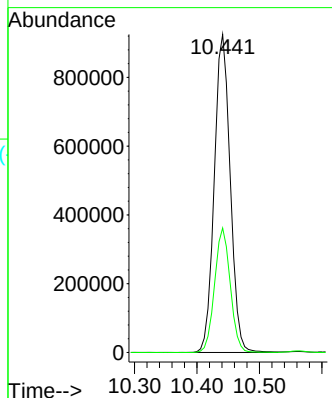
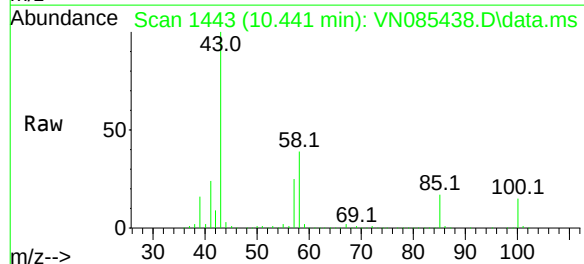
#51
4-Methyl-2-Pentanone
Concen: 546.159 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1643800
Ion Ratio Lower Upper
43 100
58 38.4 30.5 45.7

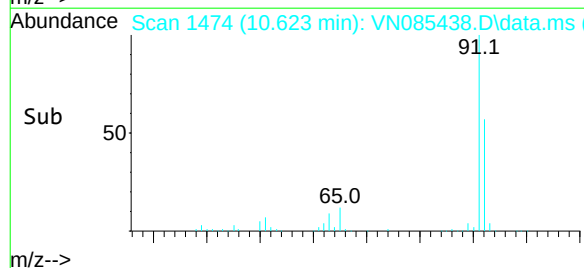
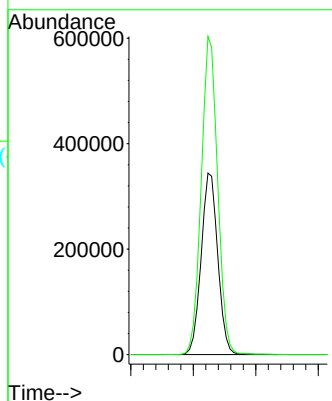
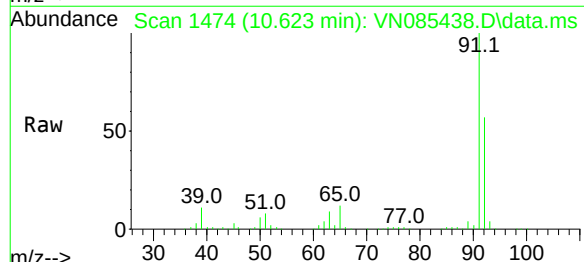
Manual Integrations
APPROVED

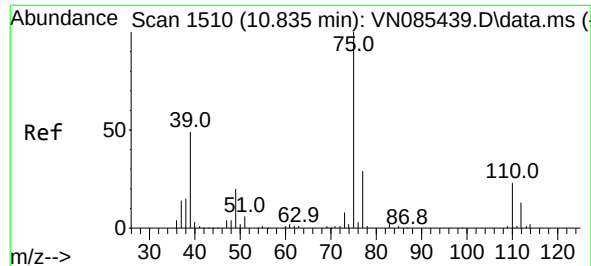
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 113.689 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 92 Resp: 634743
Ion Ratio Lower Upper
92 100
91 173.1 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 114.424 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 391238

Ion Ratio Lower Upper

75 100

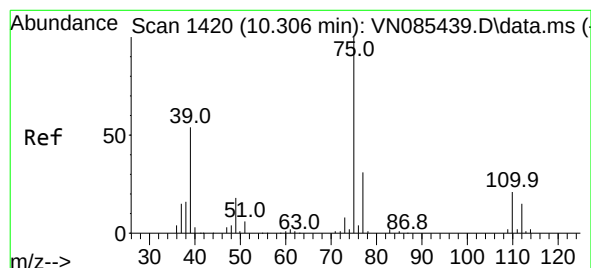
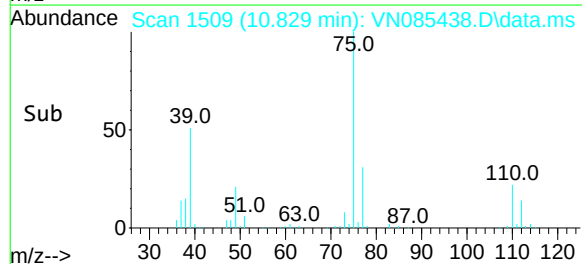
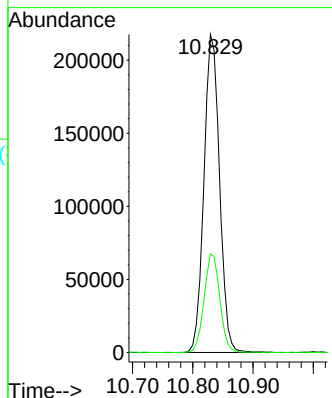
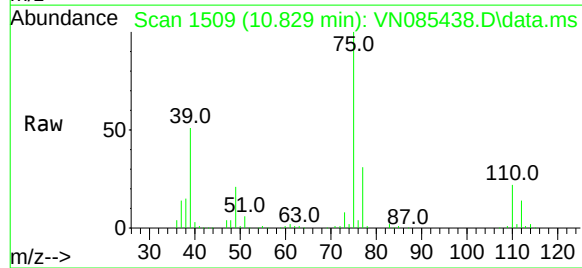
77 31.0 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 112.369 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

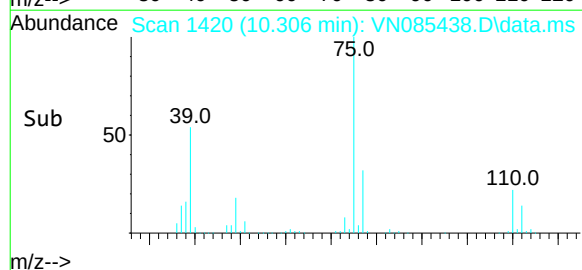
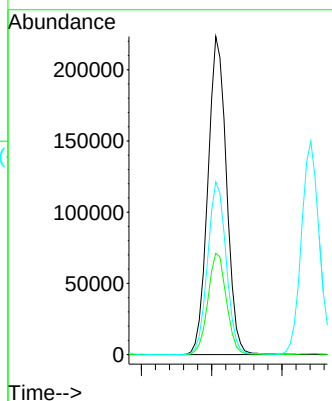
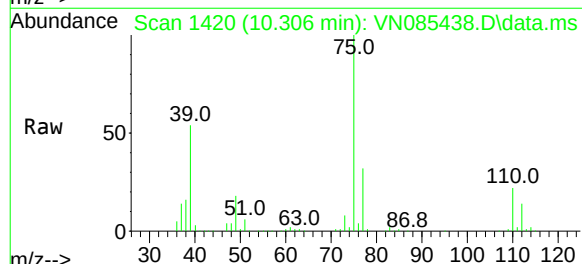
Tgt Ion: 75 Resp: 410403

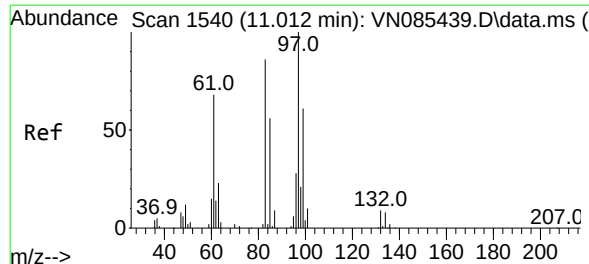
Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4

39 54.3 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 103.879 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 229522

Ion Ratio Lower Upper

97 100

83 88.4 69.0 103.6

85 56.3 44.6 66.8

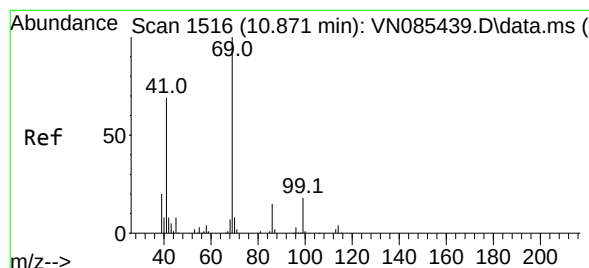
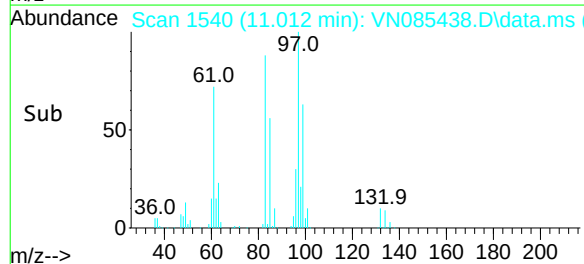
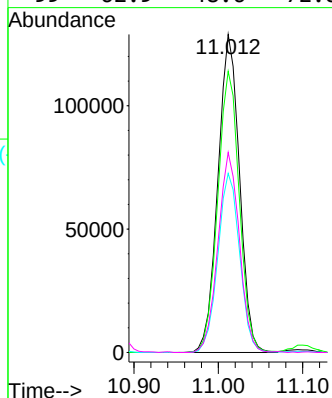
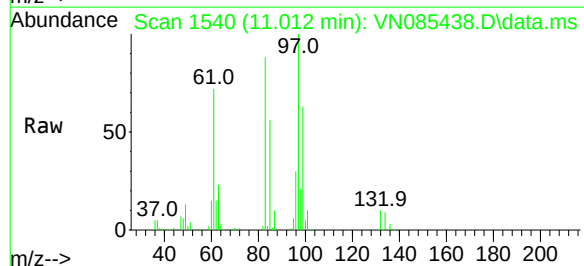
99 62.9 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 101.029 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.001 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

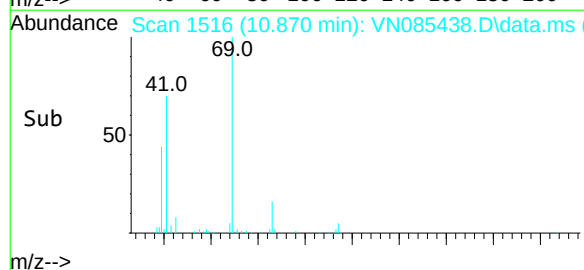
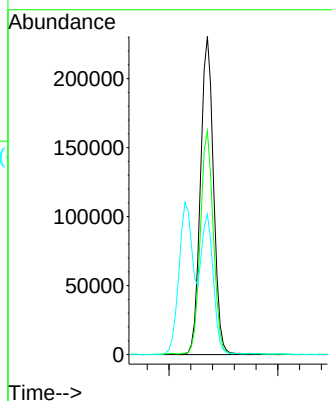
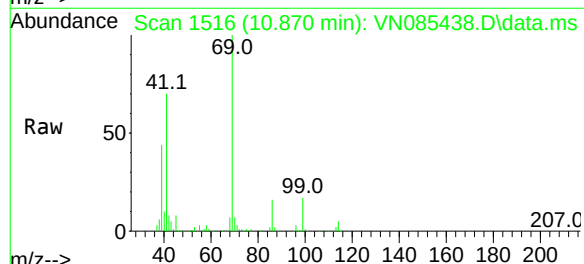
Tgt Ion: 69 Resp: 383663

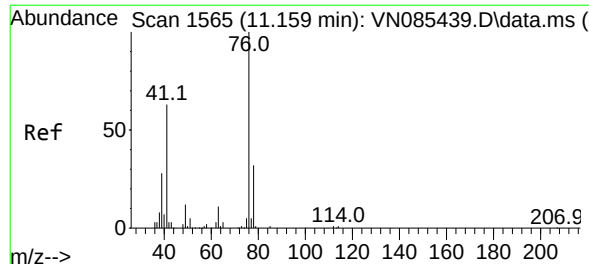
Ion Ratio Lower Upper

69 100

41 69.1 54.6 82.0

39 40.1 32.4 48.6





#57

1,3-Dichloropropane

Concen: 107.469 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 76 Resp: 412886

Ion Ratio Lower Upper

76 100

78 32.2 25.6 38.4

Instrument :

MSVOA_N

ClientSampleId :

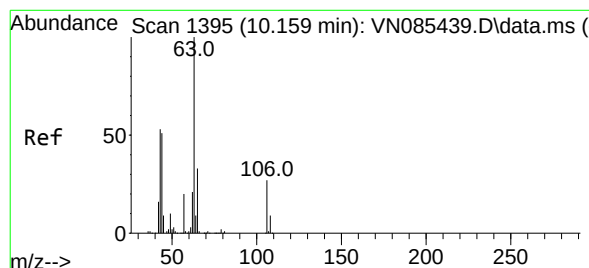
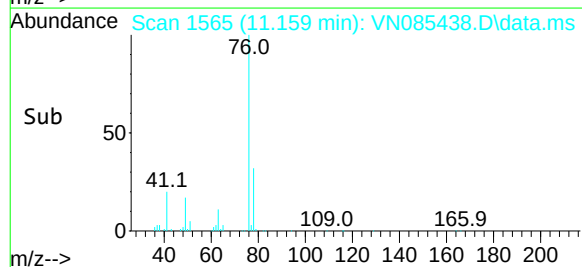
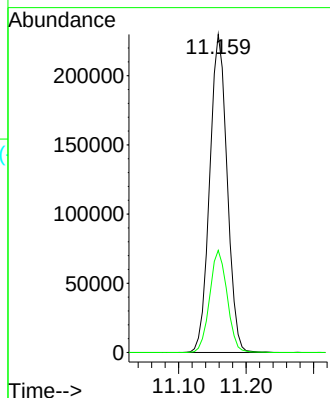
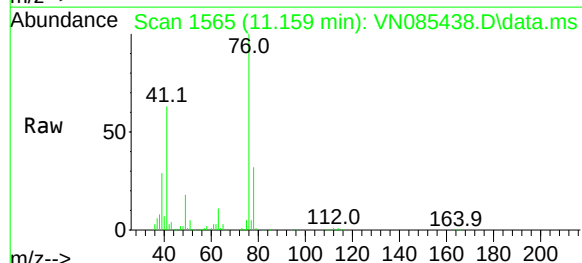
VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 605.243 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085438.D

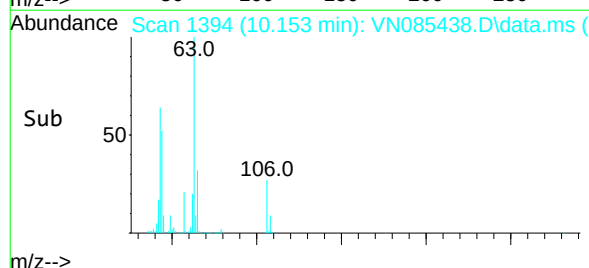
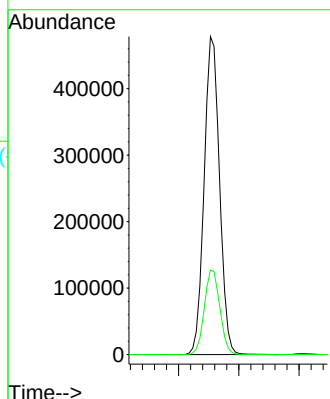
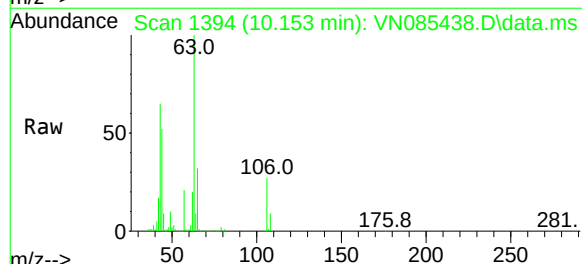
Acq: 14 Jan 2025 14:56

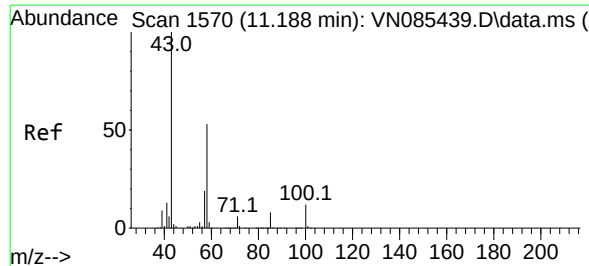
Tgt Ion: 63 Resp: 848636

Ion Ratio Lower Upper

63 100

106 26.8 21.6 32.4





#59

2-Hexanone

Concen: 556.643 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 1178831

Ion Ratio Lower Upper

43 100

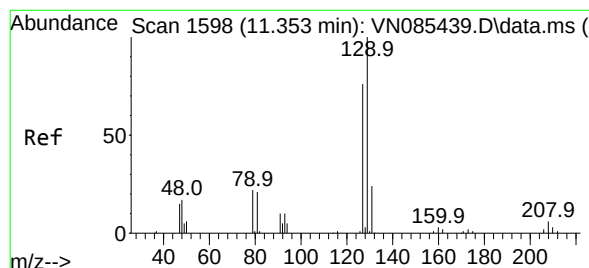
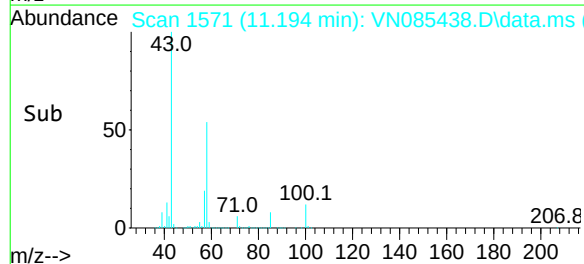
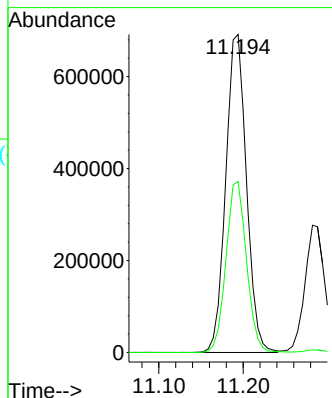
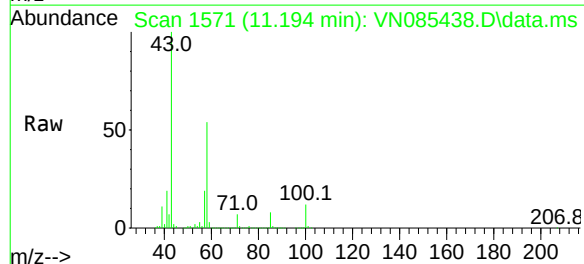
58 53.2 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 106.227 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085438.D

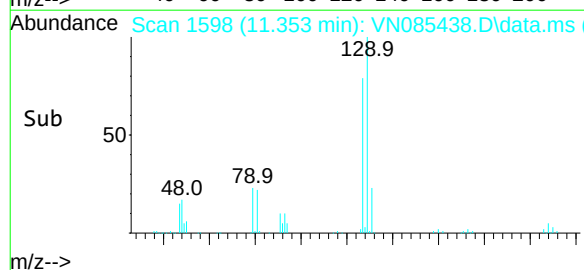
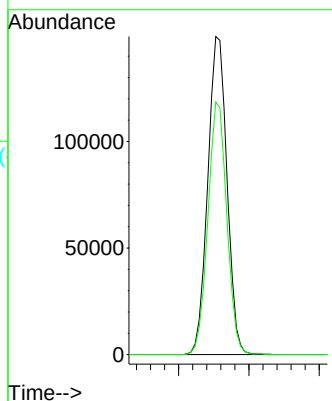
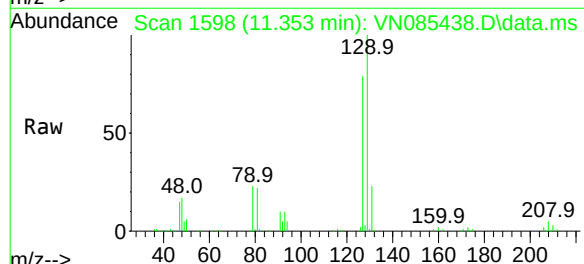
Acq: 14 Jan 2025 14:56

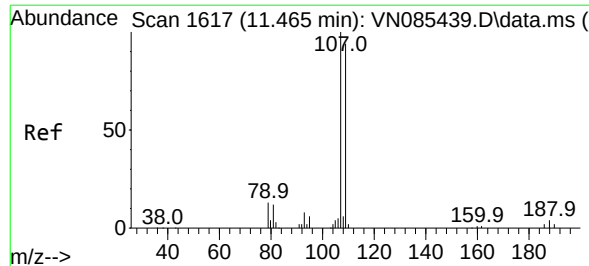
Tgt Ion:129 Resp: 283361

Ion Ratio Lower Upper

129 100

127 78.1 38.6 115.8





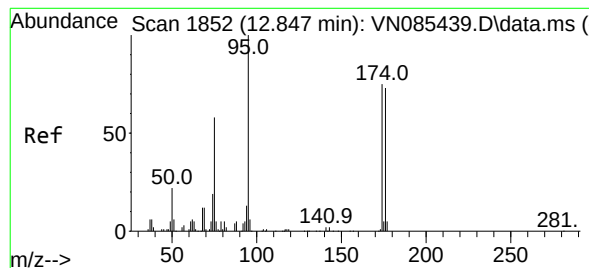
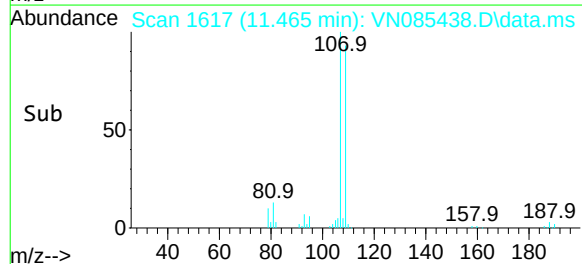
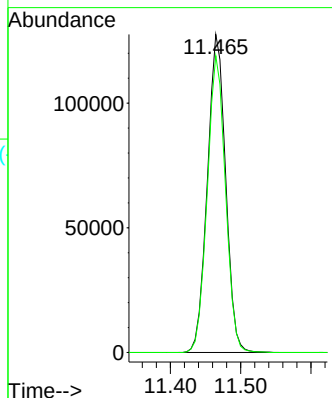
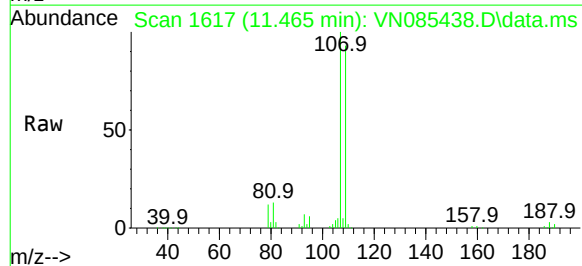
#61
1,2-Dibromoethane
Concen: 104.623 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 107 Resp: 230104
Ion Ratio Lower Upper
107 100
109 93.1 75.9 113.9

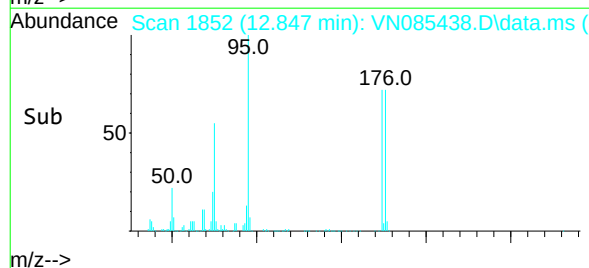
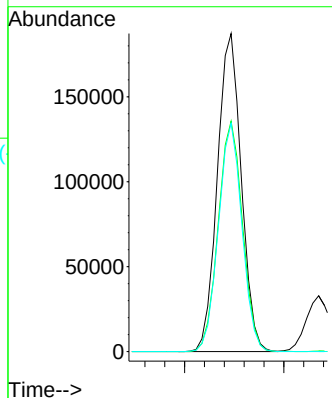
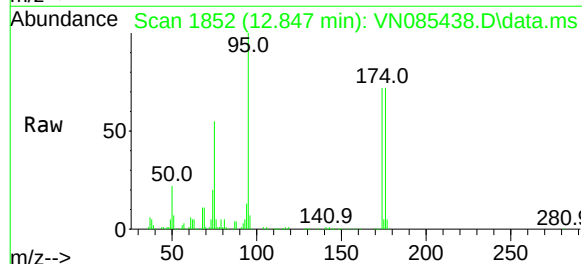
Manual Integrations
APPROVED

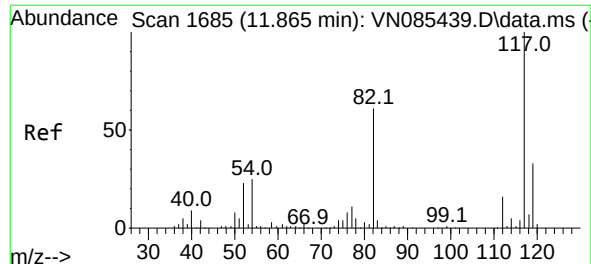
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 112.765 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 95 Resp: 313161
Ion Ratio Lower Upper
95 100
174 73.4 0.0 145.0
176 70.5 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:117 Resp: 298938

Ion Ratio Lower Upper

117 100

82 59.3 48.6 72.8

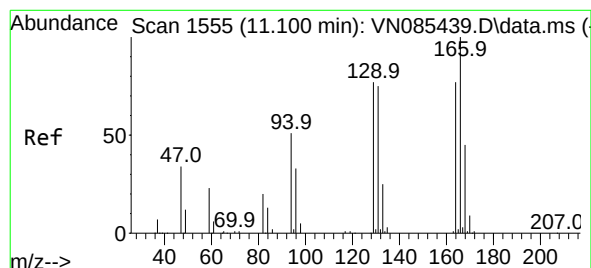
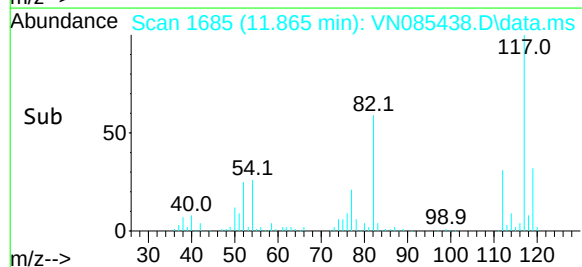
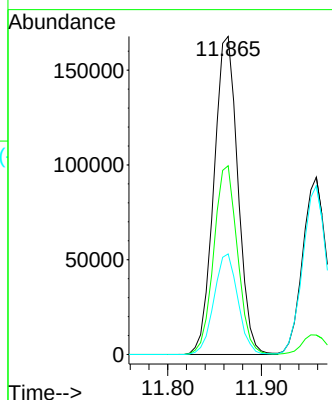
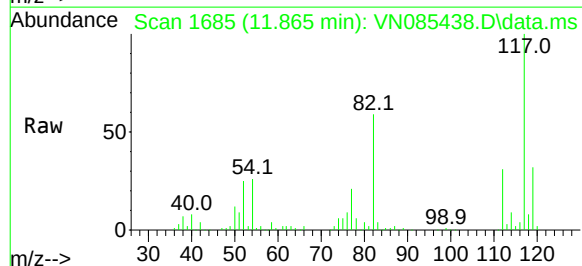
119 31.6 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 102.980 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:164 Resp: 209870

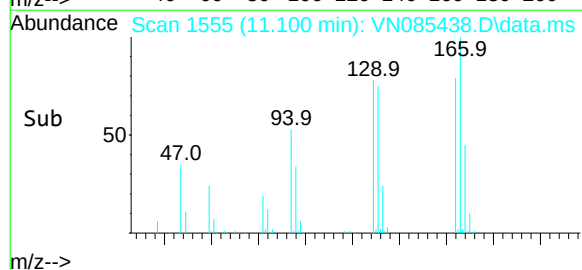
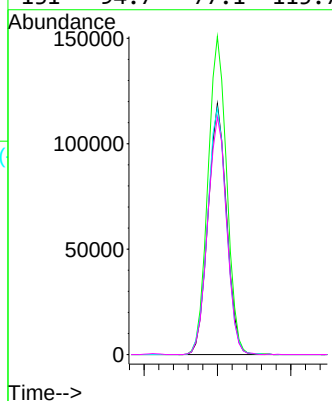
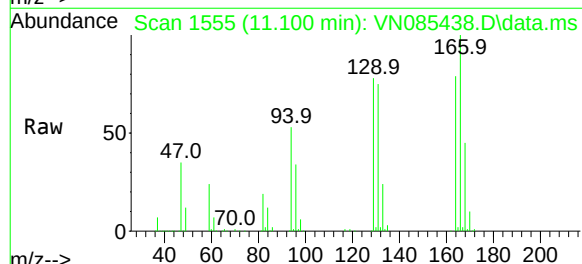
Ion Ratio Lower Upper

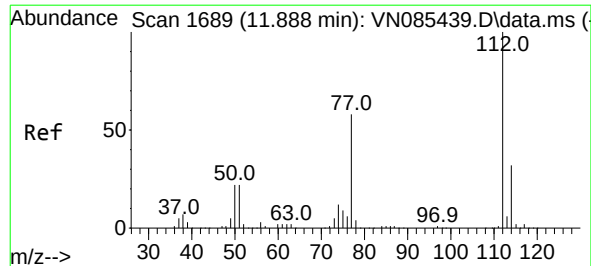
164 100

166 126.8 103.4 155.2

129 98.3 79.2 118.8

131 94.7 77.1 115.7





#65

Chlorobenzene

Concen: 103.482 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 677679

Ion Ratio Lower Upper

112 100

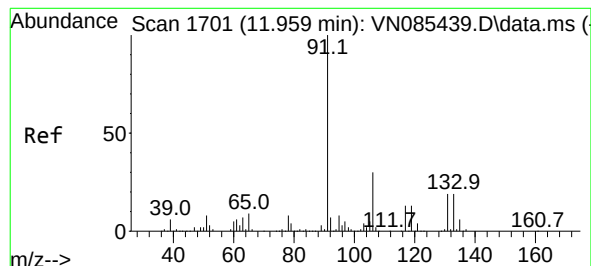
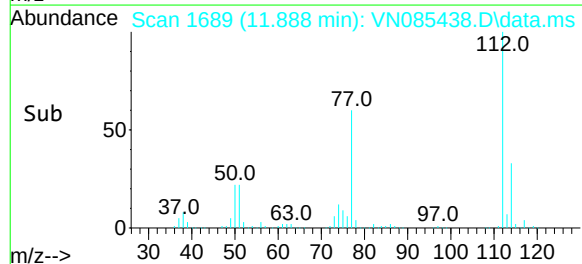
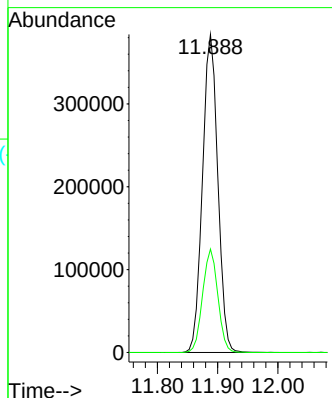
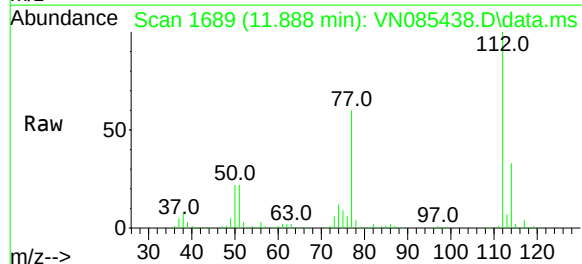
114 32.5 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 100.517 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

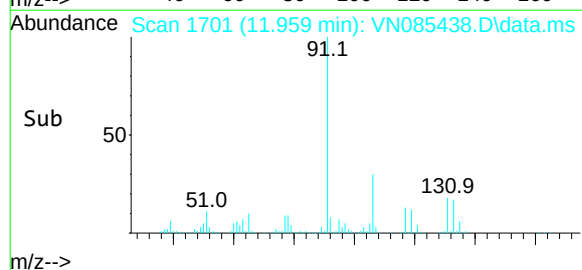
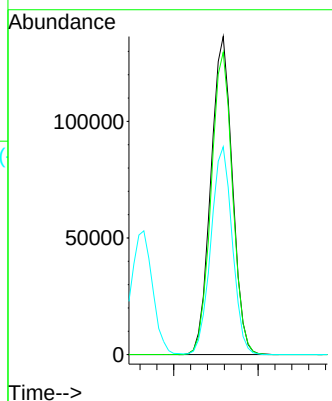
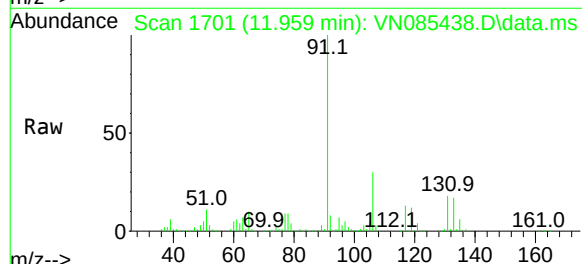
Tgt Ion:131 Resp: 241593

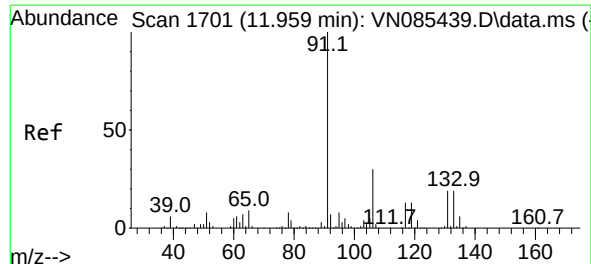
Ion Ratio Lower Upper

131 100

133 94.3 47.4 142.3

119 64.9 33.1 99.5





#67

Ethyl Benzene

Concen: 116.169 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 1239080

Ion Ratio Lower Upper

91 100

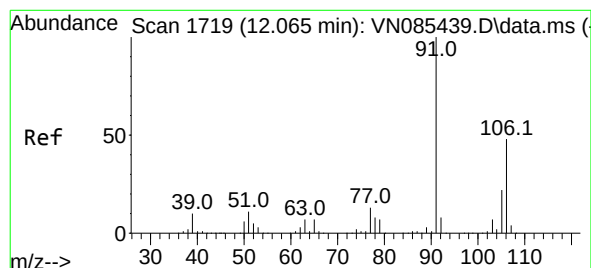
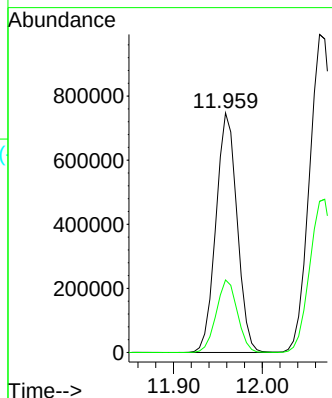
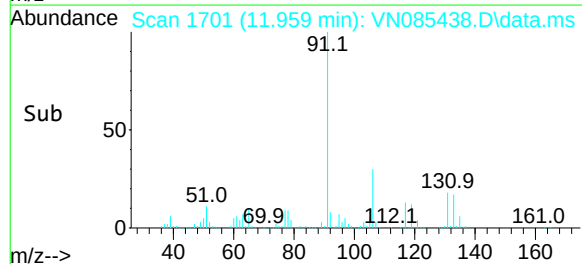
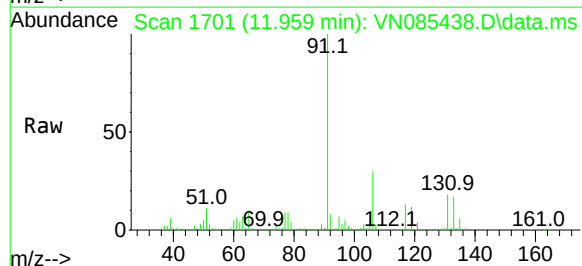
106 30.3 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 235.219 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085438.D

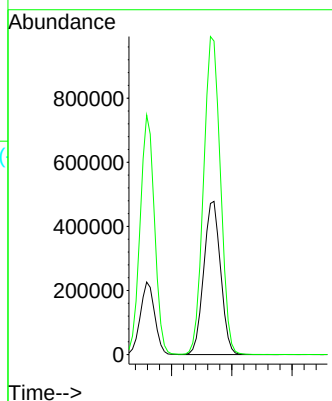
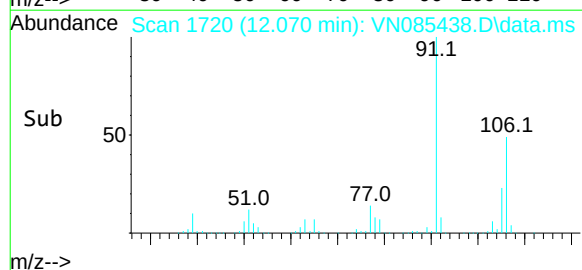
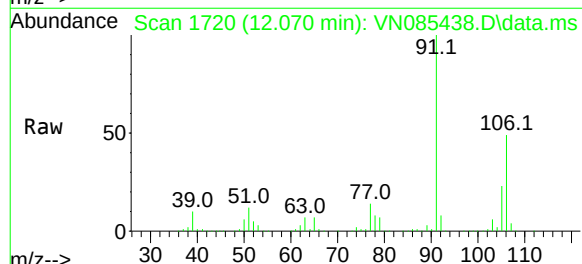
Acq: 14 Jan 2025 14:56

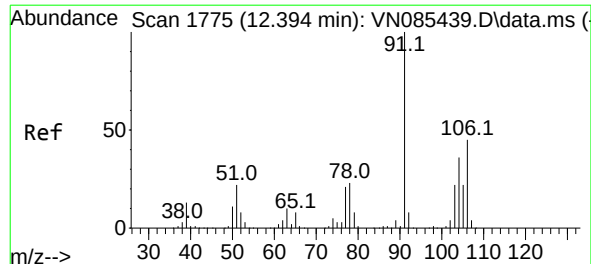
Tgt Ion:106 Resp: 927244

Ion Ratio Lower Upper

106 100

91 208.0 167.7 251.5





#69

o-Xylene

Concen: 117.135 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 441279

Ion Ratio Lower Upper

106 100

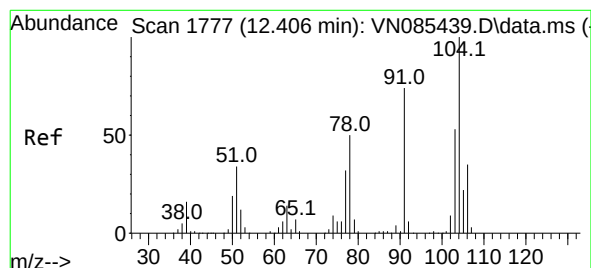
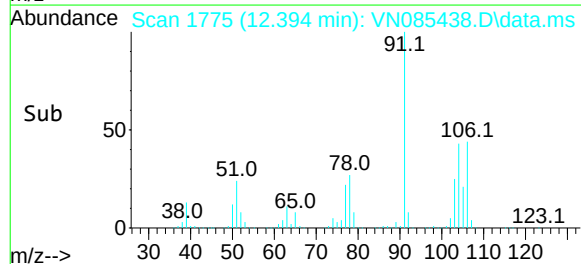
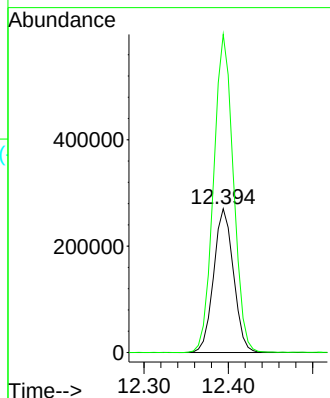
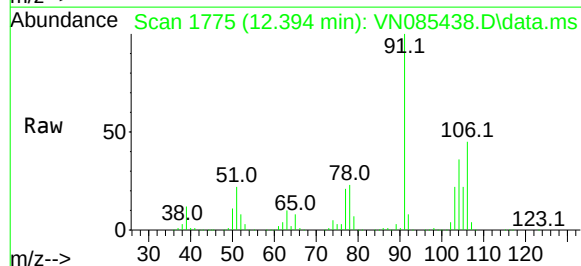
91 221.3 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 121.919 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

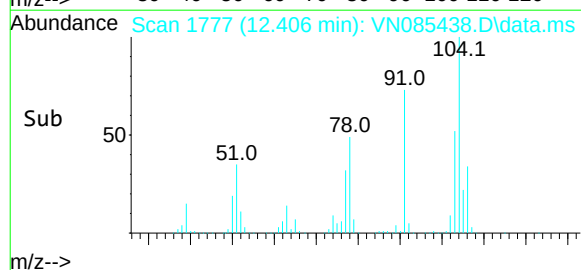
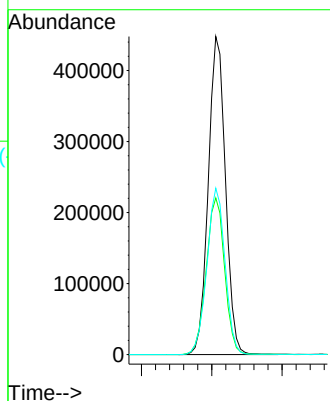
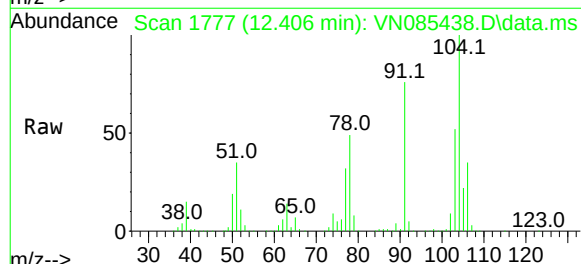
Tgt Ion:104 Resp: 760136

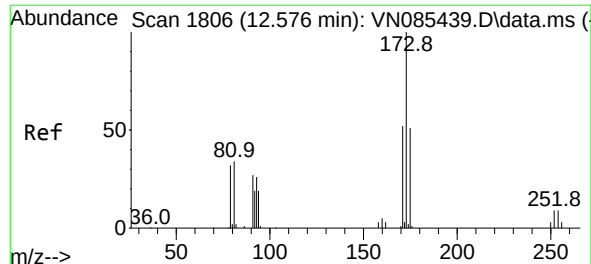
Ion Ratio Lower Upper

104 100

78 52.8 42.5 63.7

103 55.3 43.8 65.8





#71

Bromoform

Concen: 108.227 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

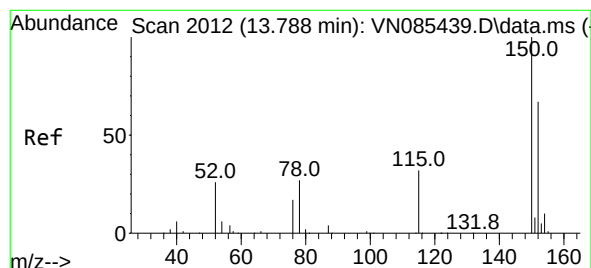
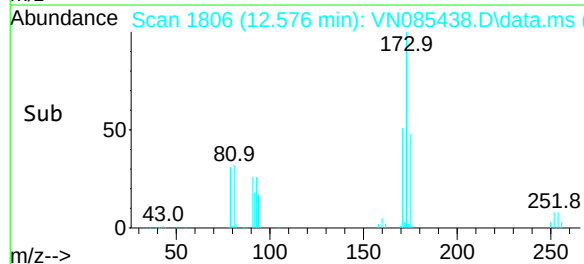
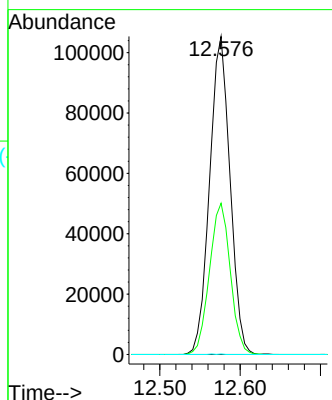
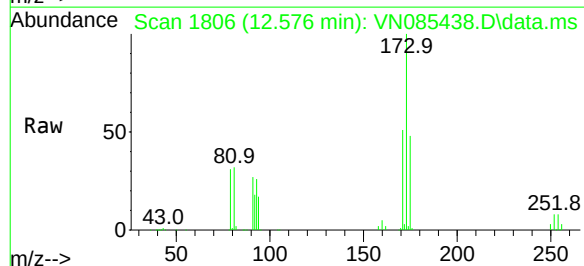
ClientSampleId :

VSTDICC100

Tgt Ion:	173	Resp:	186124
Ion Ratio	Lower	Upper	
173	100		
175	48.4	24.4	73.2
254	0.1	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

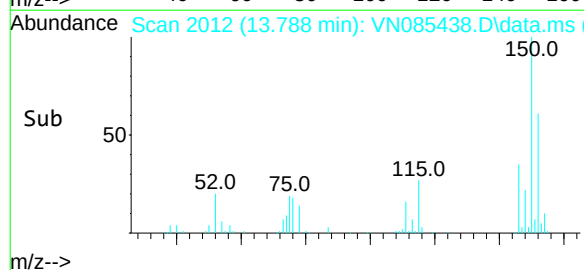
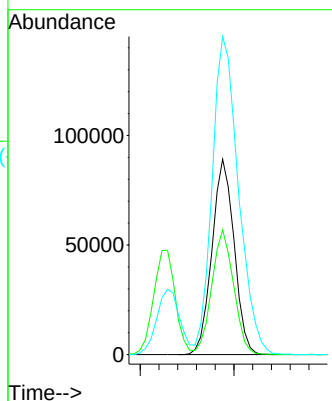
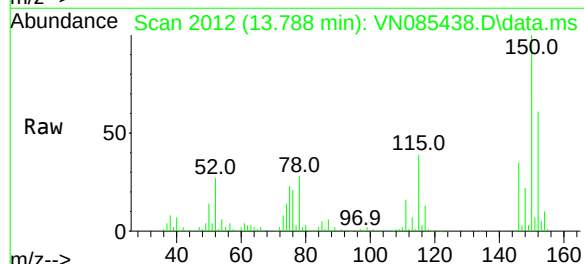
RT: 13.788 min Scan# 2012

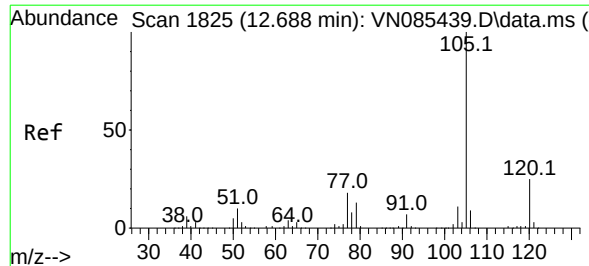
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	152	Resp:	146196
Ion Ratio	Lower	Upper	
152	100		
115	62.7	31.1	93.3
150	193.1	0.0	343.6





#73

Isopropylbenzene

Concen: 116.221 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 1146752

Ion Ratio Lower Upper

105 100

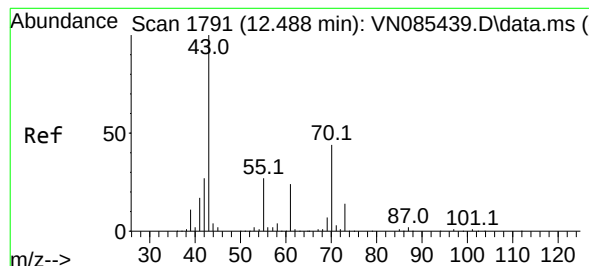
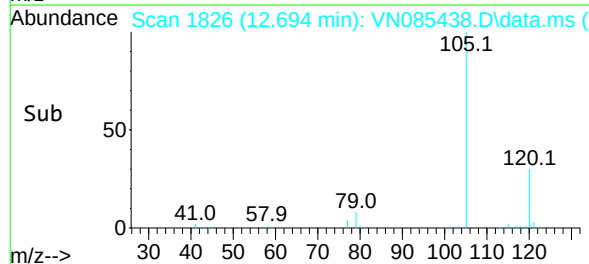
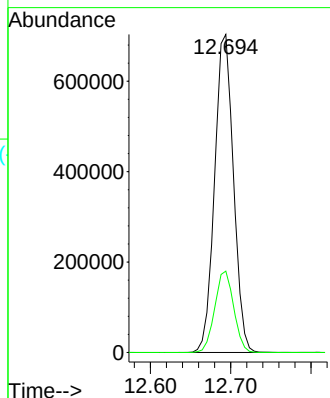
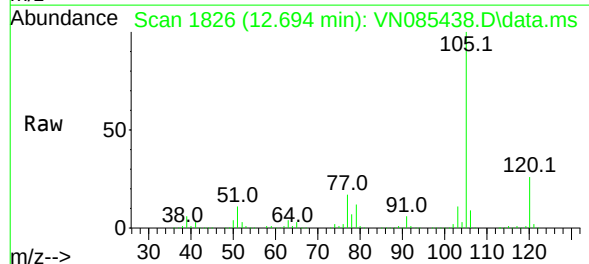
120 25.7 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 110.308 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 489217

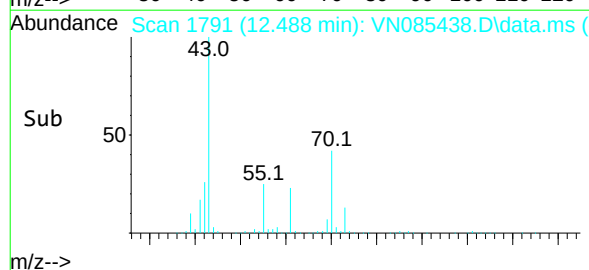
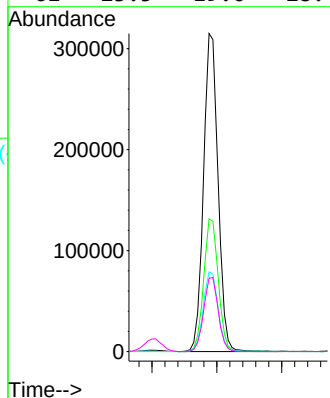
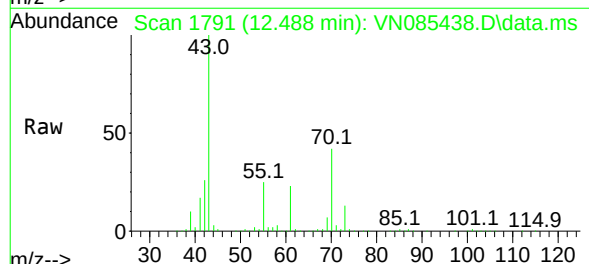
Ion Ratio Lower Upper

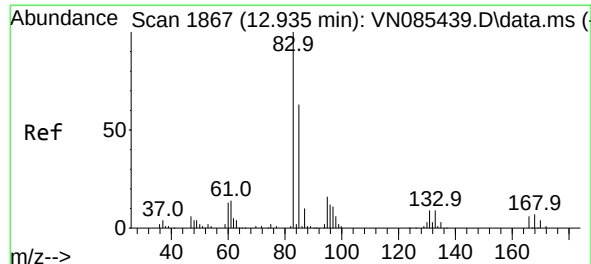
43 100

70 41.9 34.0 51.0

55 25.7 21.4 32.2

61 23.5 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 94.039 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

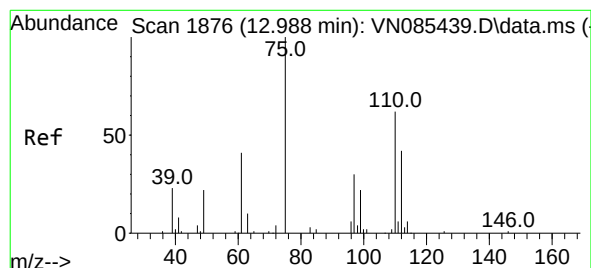
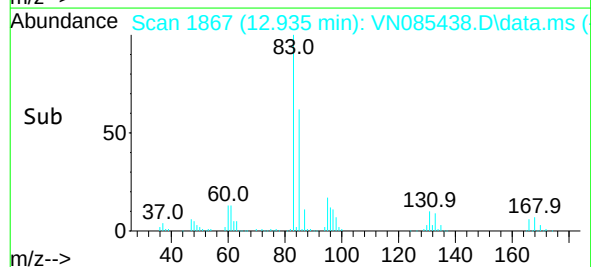
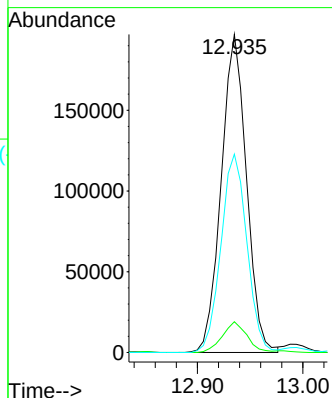
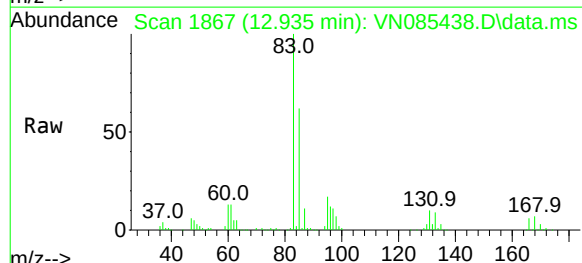
ClientSampleId :

VSTDIC100

Tgt Ion:	83	Resp:	327767
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	64.1	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 104.530 ug/l m

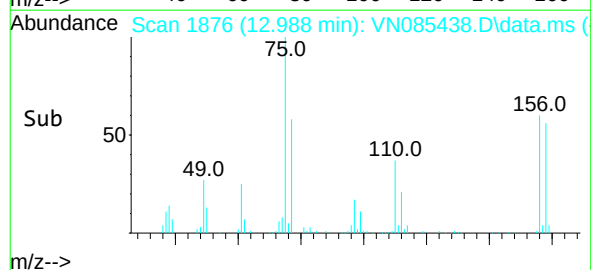
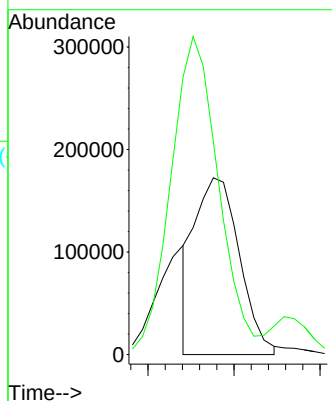
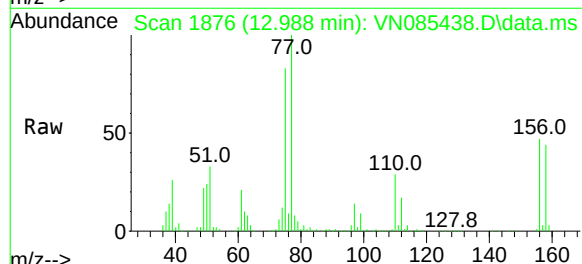
RT: 12.988 min Scan# 1876

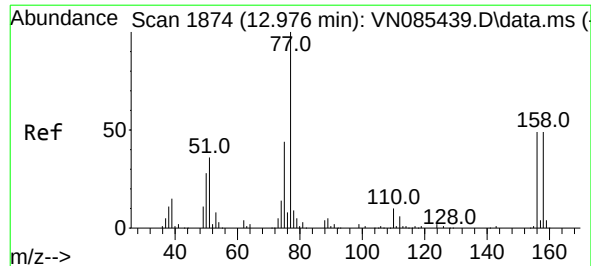
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	75	Resp:	310115
Ion	Ratio	Lower	Upper
75	100		
77	192.6	109.7	329.2





#77

Bromobenzene

Concen: 104.200 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:156 Resp: 268616

Ion Ratio Lower Upper

156 100

77 222.4 114.1 342.4

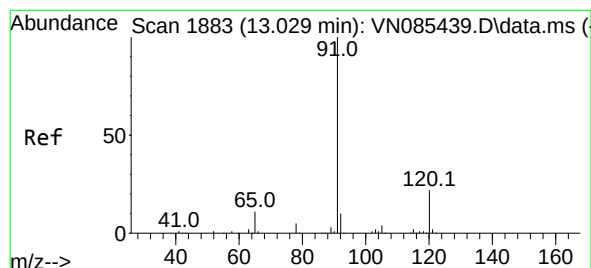
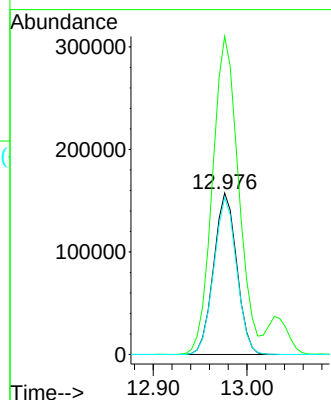
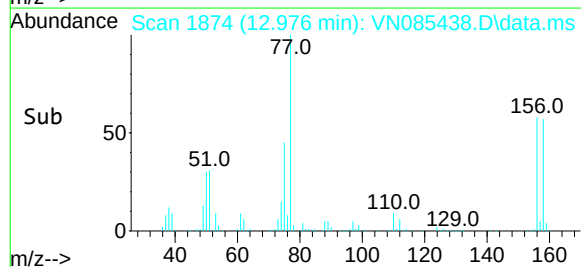
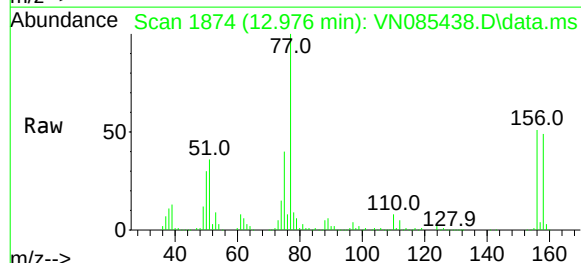
158 96.3 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 118.600 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.000 min

Lab File: VN085438.D

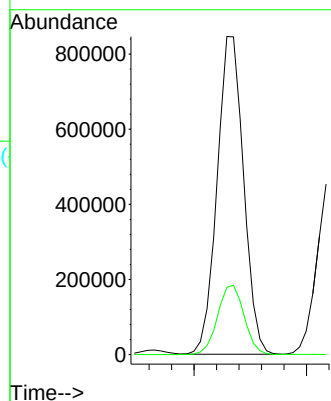
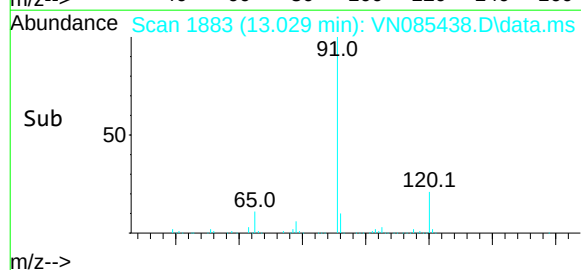
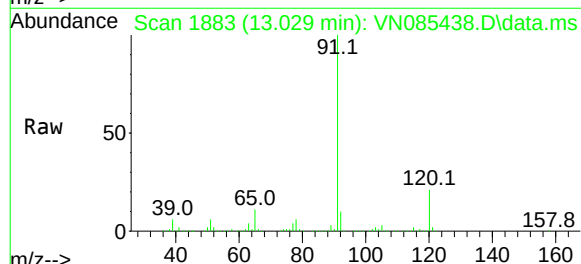
Acq: 14 Jan 2025 14:56

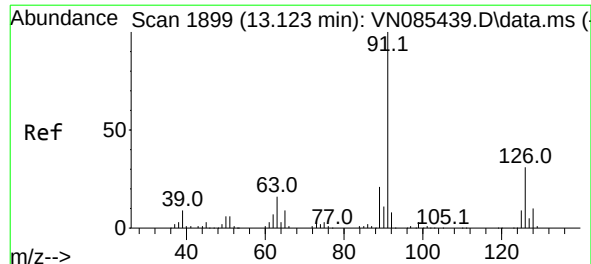
Tgt Ion: 91 Resp: 1385353

Ion Ratio Lower Upper

91 100

120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 108.767 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 822258

Ion Ratio Lower Upper

91 100

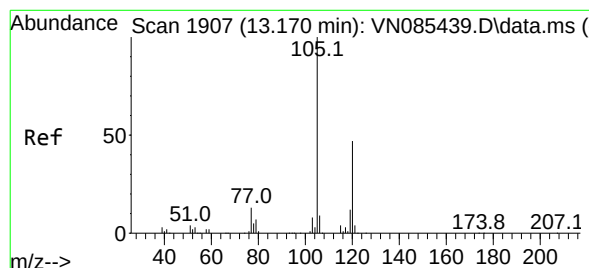
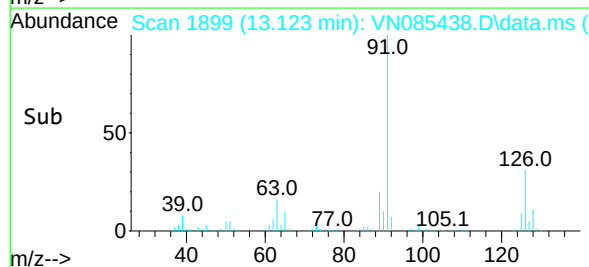
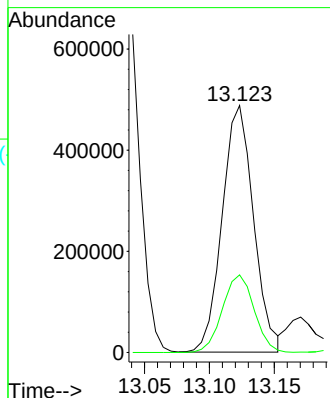
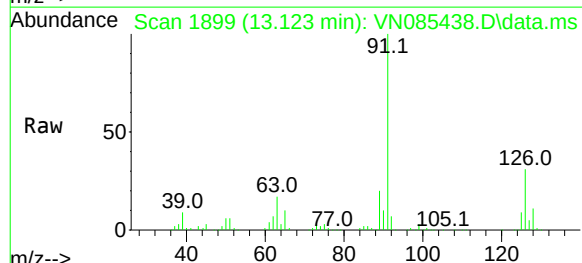
126 31.8 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 116.938 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085438.D

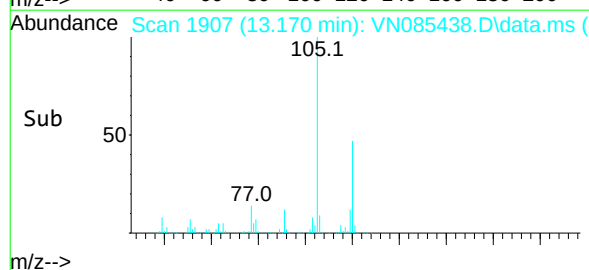
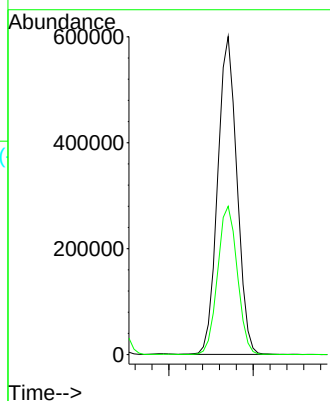
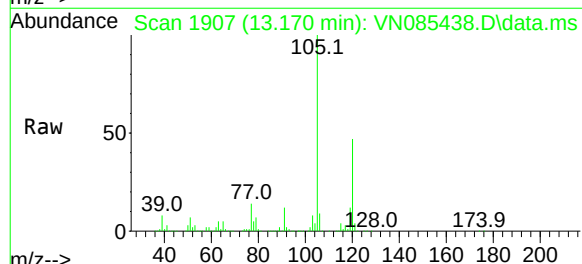
Acq: 14 Jan 2025 14:56

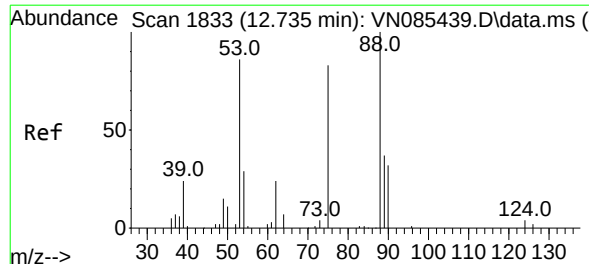
Tgt Ion:105 Resp: 953066

Ion Ratio Lower Upper

105 100

120 47.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 111.544 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 122508

Ion Ratio Lower Upper

75 100

53 100.9 95.6 143.4

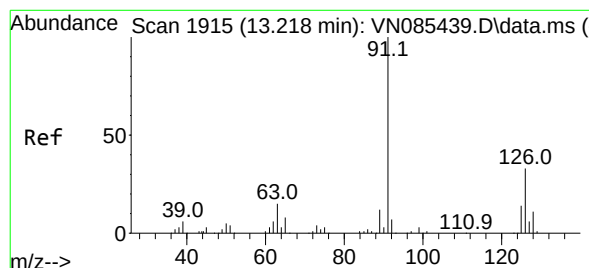
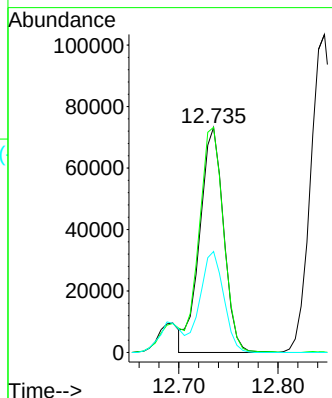
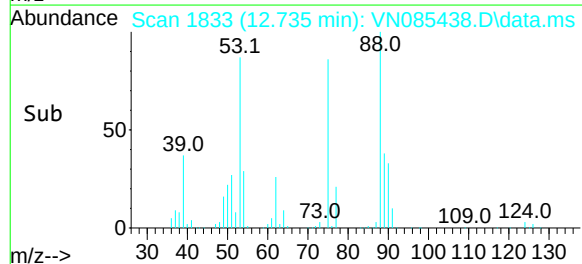
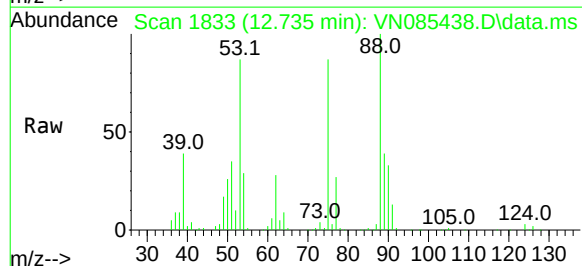
89 44.4 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 110.574 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085438.D

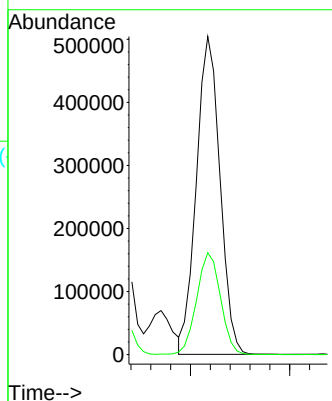
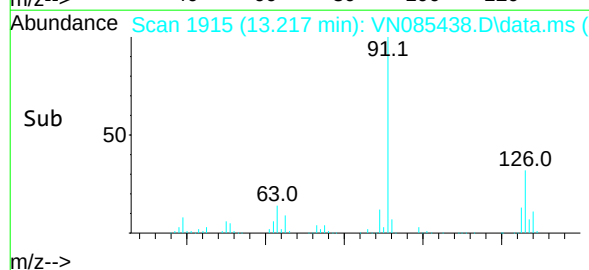
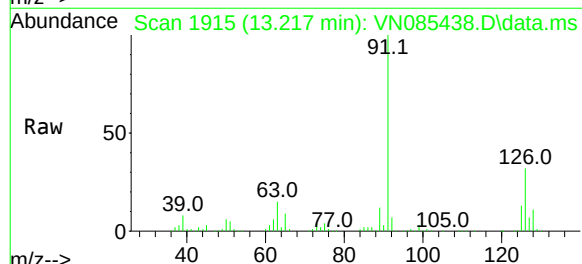
Acq: 14 Jan 2025 14:56

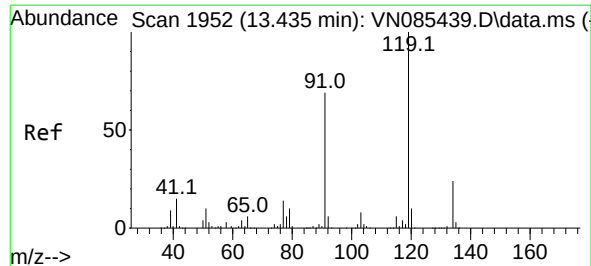
Tgt Ion: 91 Resp: 832317

Ion Ratio Lower Upper

91 100

126 32.5 15.9 47.7





#83

tert-Butylbenzene

Concen: 116.457 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 797069

Ion Ratio Lower Upper

119 100

91 70.7 35.1 105.3

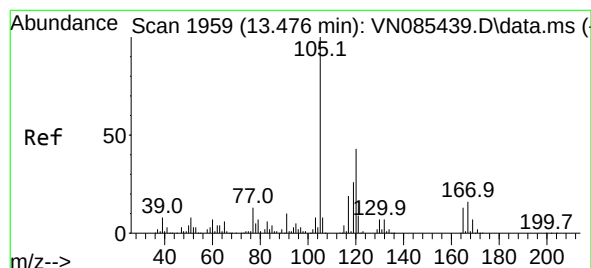
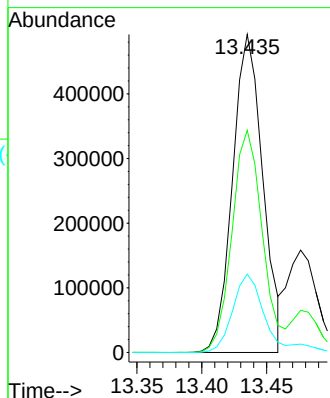
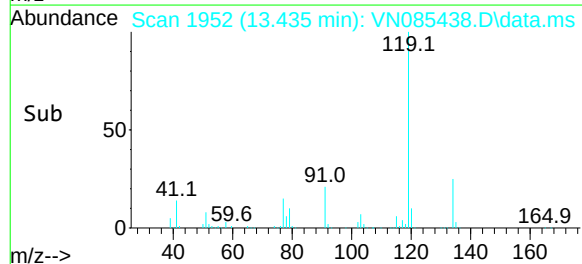
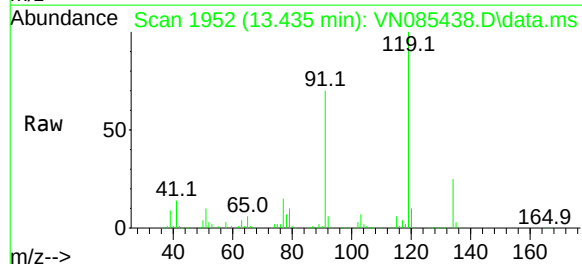
134 26.6 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 119.625 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085438.D

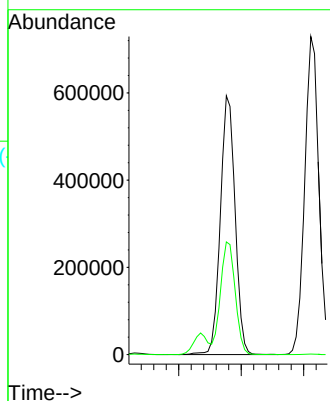
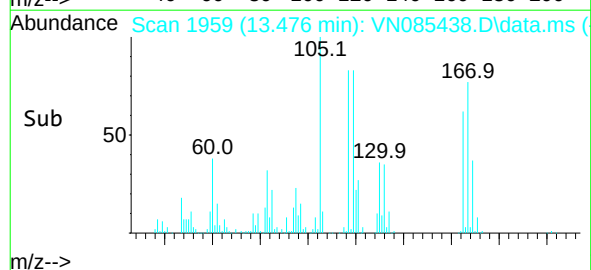
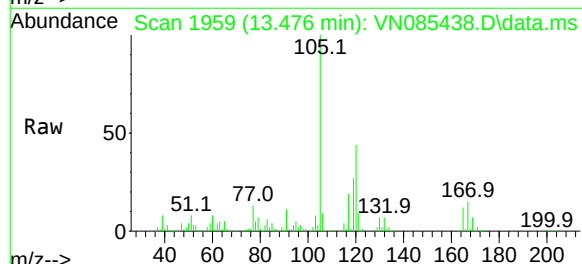
Acq: 14 Jan 2025 14:56

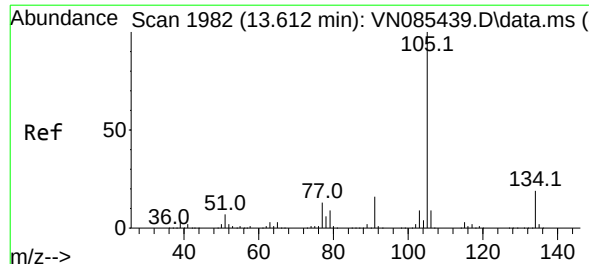
Tgt Ion:105 Resp: 971729

Ion Ratio Lower Upper

105 100

120 43.4 21.6 65.0





#85

sec-Butylbenzene

Concen: 120.587 ug/l

RT: 13.611 min Scan# 19

Delta R.T. -0.001 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 1143885

Ion Ratio Lower Upper

105 100

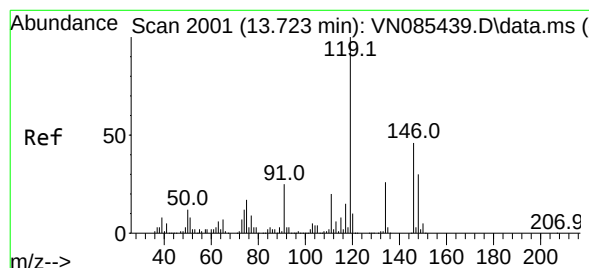
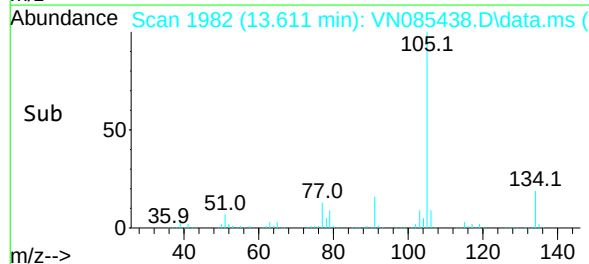
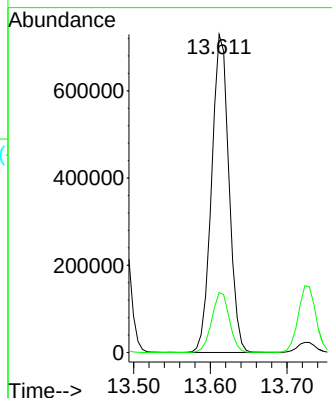
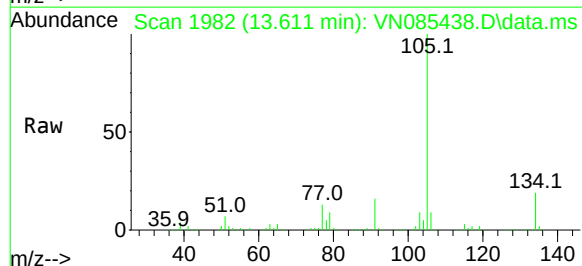
134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 100.111 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

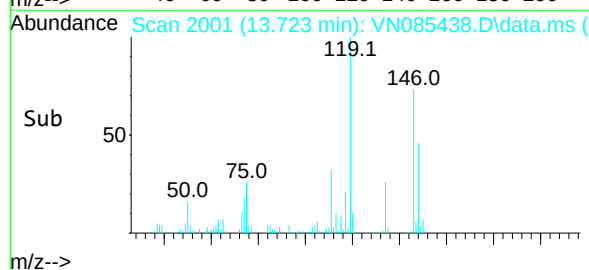
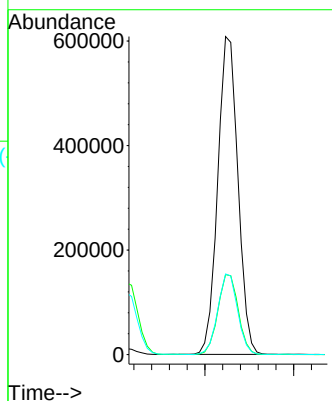
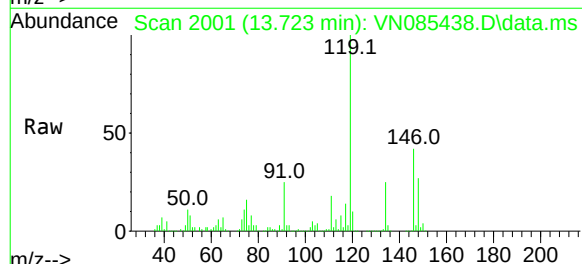
Tgt Ion:119 Resp: 960747

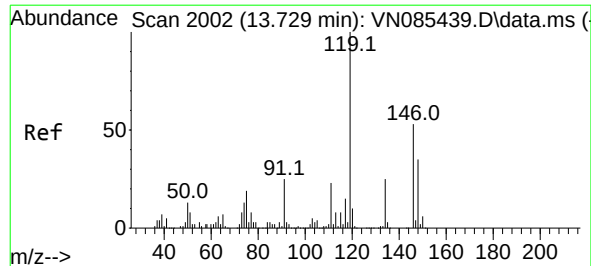
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 105.943 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 502960

Ion Ratio Lower Upper

146 100

111 42.8 21.4 64.3

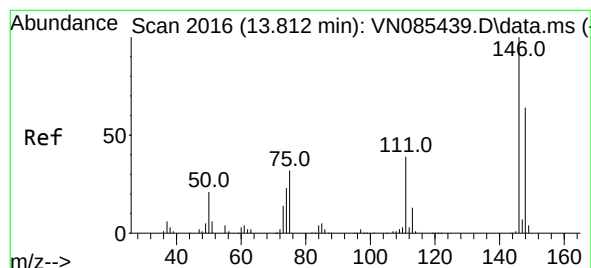
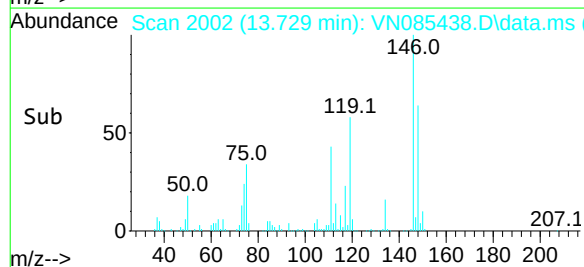
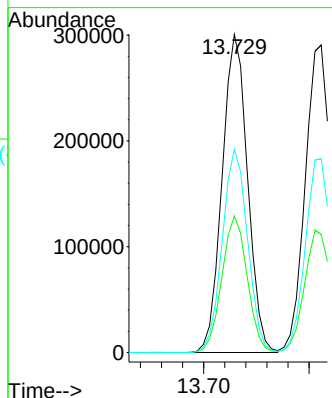
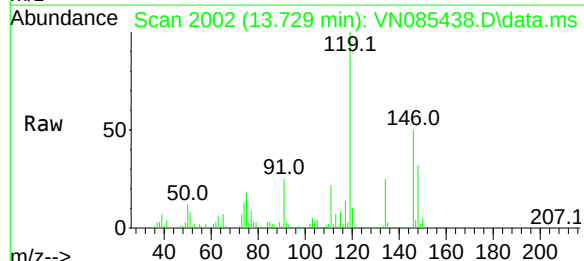
148 63.6 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 101.341 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

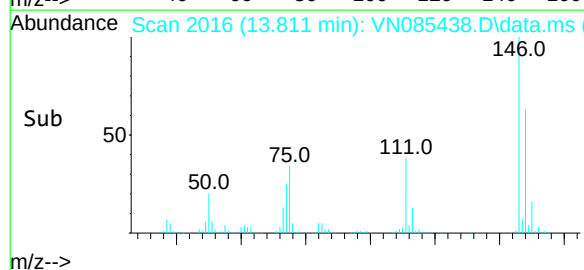
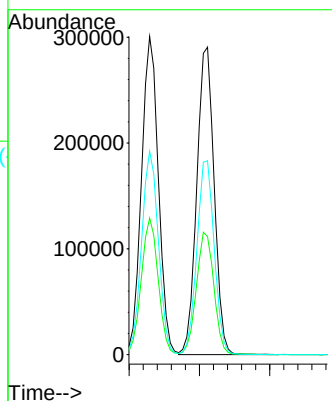
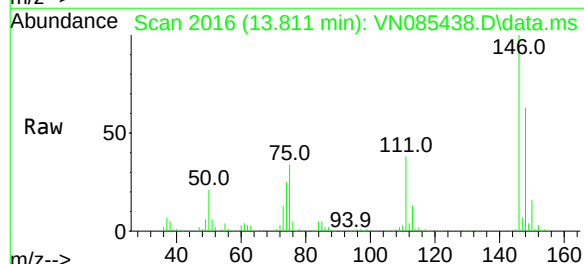
Tgt Ion:146 Resp: 498709

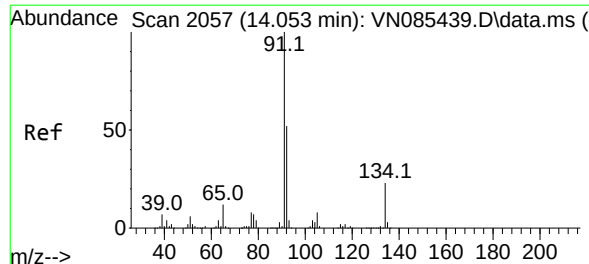
Ion Ratio Lower Upper

146 100

111 40.1 21.3 63.7

148 63.1 32.4 97.0





#89

n-Butylbenzene

Concen: 123.781 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 842368

Ion Ratio Lower Upper

91 100

92 52.8 25.8 77.3

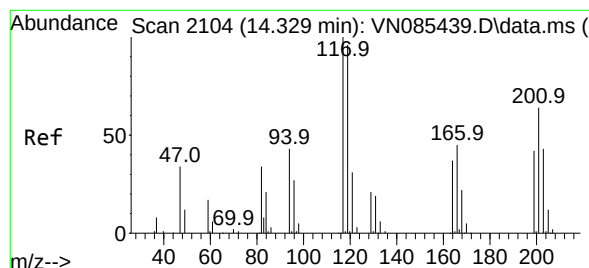
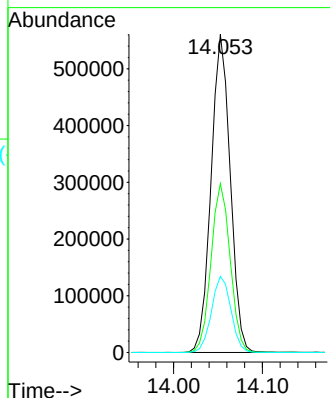
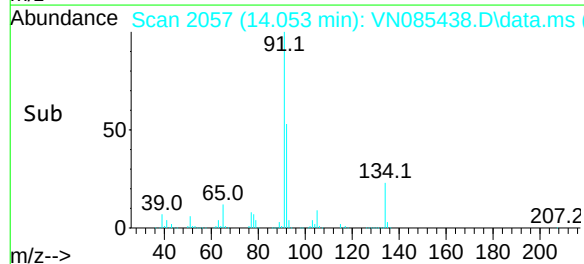
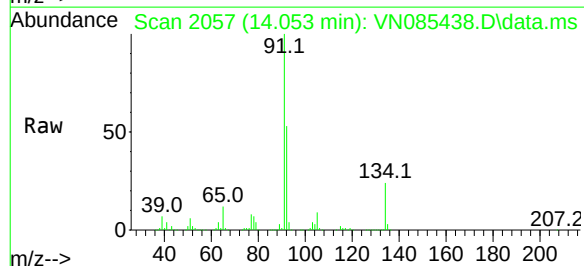
134 24.3 11.7 35.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 104.405 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN085438.D

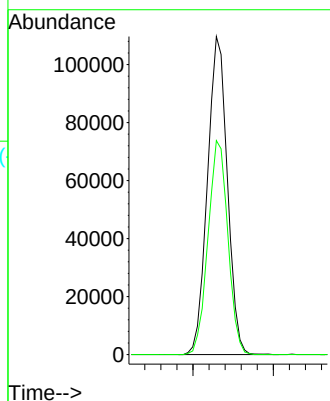
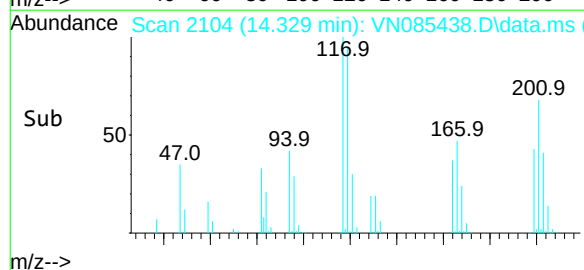
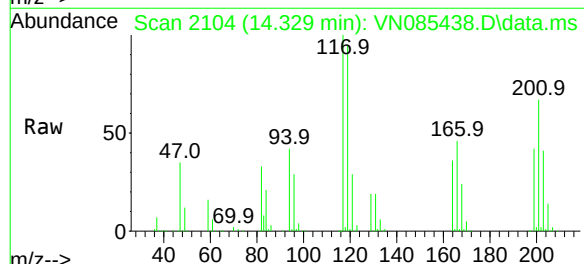
Acq: 14 Jan 2025 14:56

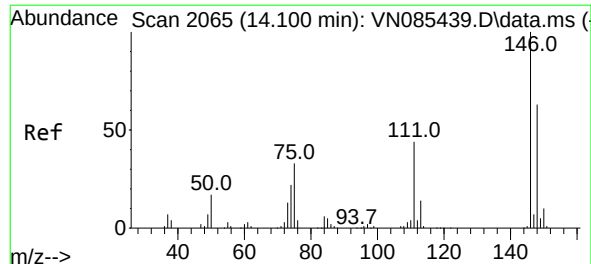
Tgt Ion:117 Resp: 188541

Ion Ratio Lower Upper

117 100

201 67.2 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 99.445 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 470919

Ion Ratio Lower Upper

146 100

111 43.9 21.7 65.1

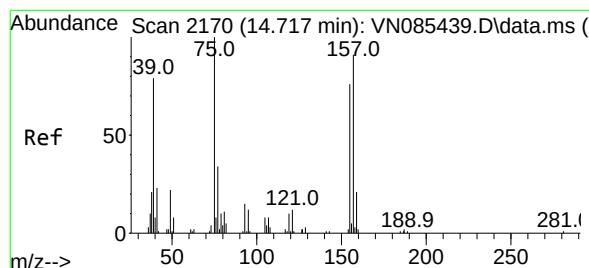
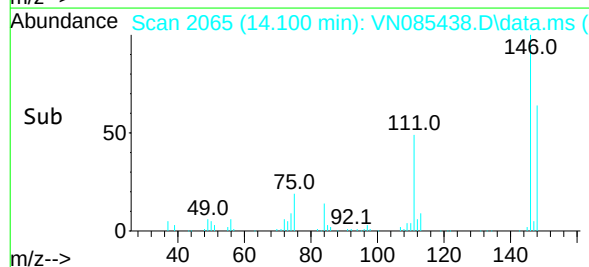
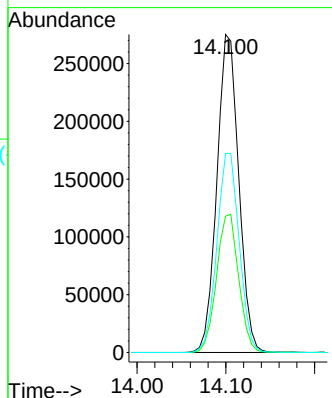
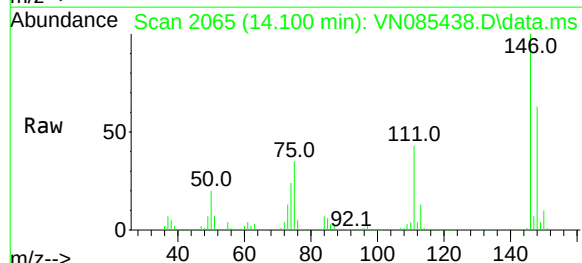
148 64.0 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 100.313 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

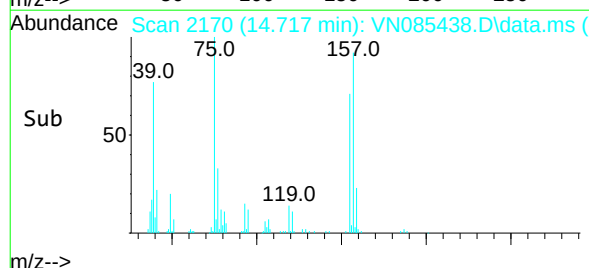
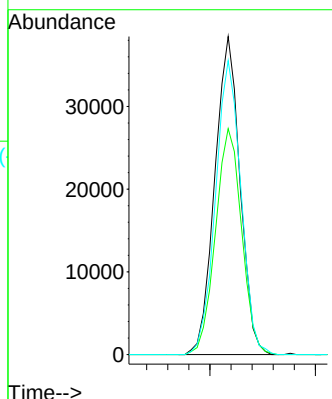
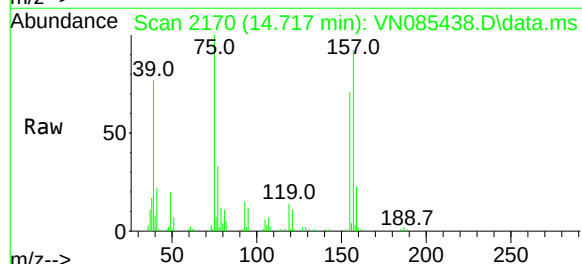
Tgt Ion: 75 Resp: 63846

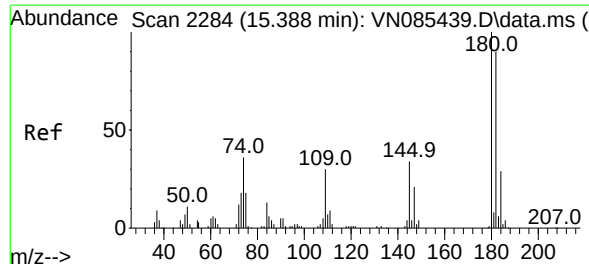
Ion Ratio Lower Upper

75 100

155 73.5 36.4 109.2

157 93.0 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 113.946 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

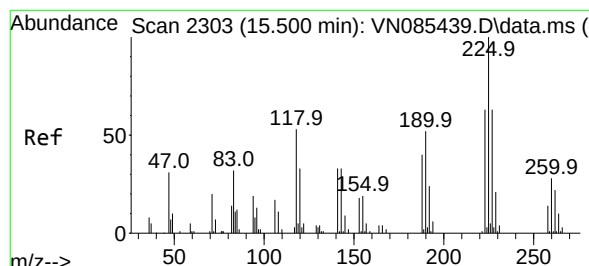
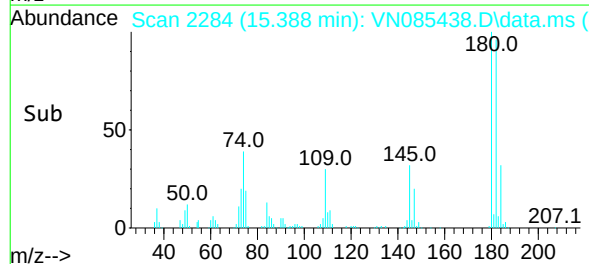
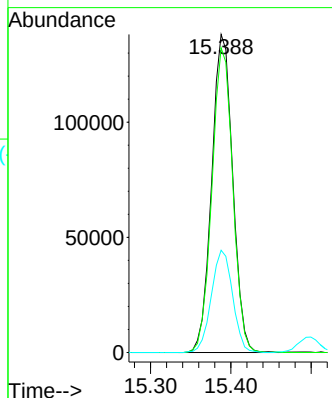
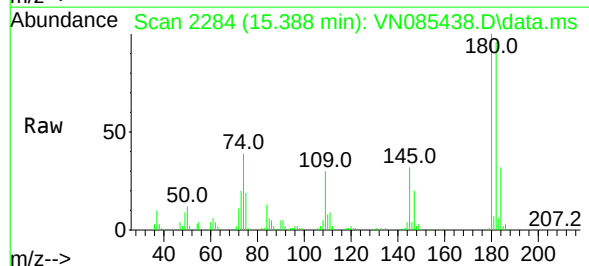
ClientSampleId :

VSTDICC100

Tgt Ion:	180	Resp:	250787
Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.8	140.3
145	32.6	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 96.619 ug/l

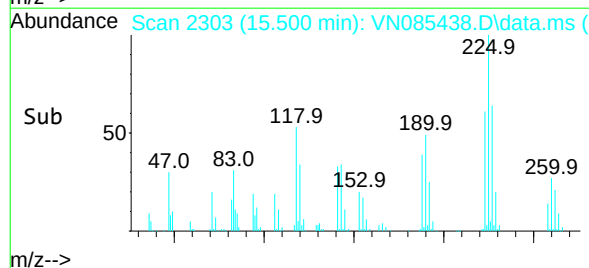
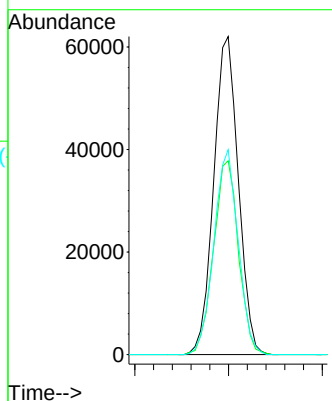
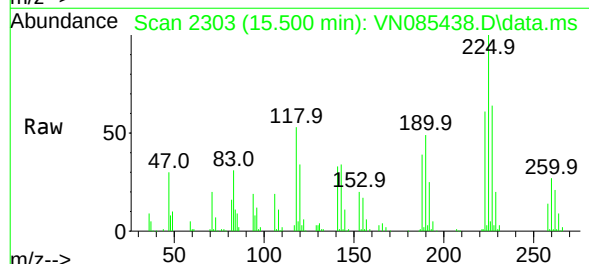
RT: 15.500 min Scan# 2303

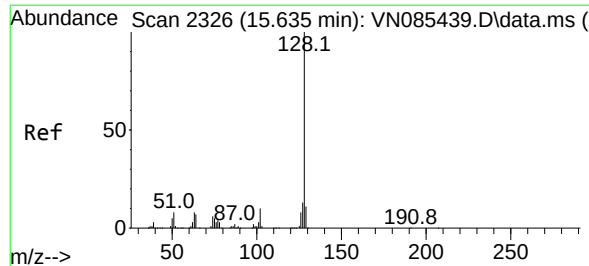
Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:	225	Resp:	112899
Ion	Ratio	Lower	Upper
225	100		
223	61.8	30.7	92.1
227	63.6	30.9	92.5





#95

Naphthalene

Concen: 115.234 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 756816

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

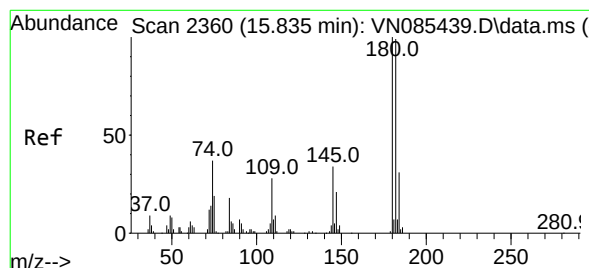
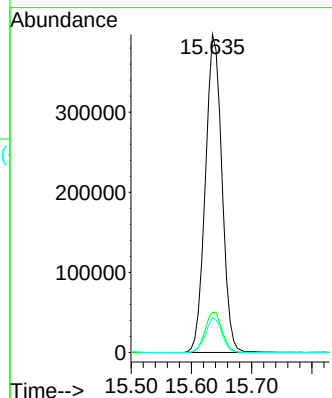
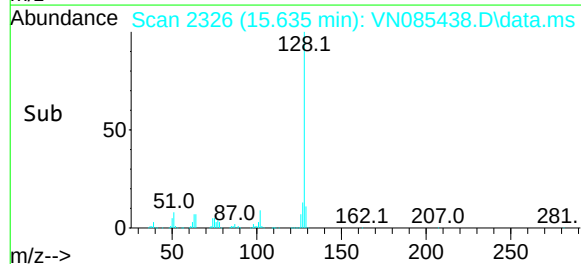
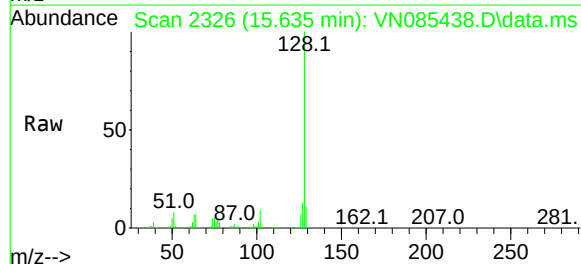
129 10.8 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 107.256 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

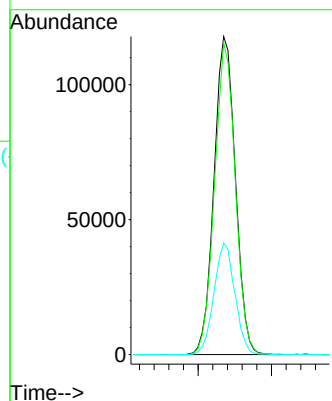
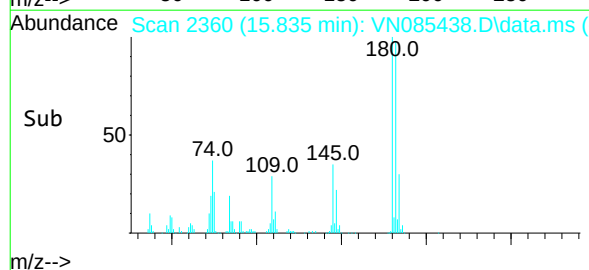
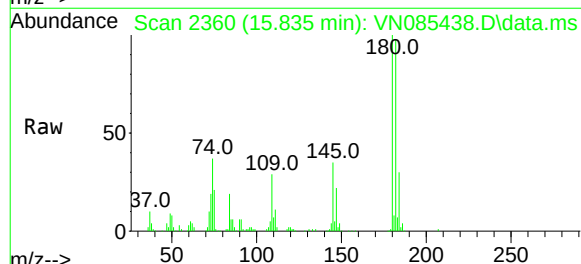
Tgt Ion:180 Resp: 238860

Ion Ratio Lower Upper

180 100

182 95.0 47.4 142.2

145 34.3 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085439.D
 Acq On : 14 Jan 2025 15:19
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	199403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	339872	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146624	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	165768	51.500	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	103.000%
35) Dibromofluoromethane	8.159	113	121554	51.552	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.100%
50) Toluene-d8	10.565	98	430698	51.411	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.820%
62) 4-Bromofluorobenzene	12.847	95	152568	53.239	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.480%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	125504	46.486	ug/l	100
3) Chloromethane	2.359	50	135631	46.398	ug/l	100
4) Vinyl Chloride	2.512	62	136831	46.569	ug/l	100
5) Bromomethane	2.953	94	83199	46.877	ug/l	100
6) Chloroethane	3.118	64	84517	45.371	ug/l	100
7) Trichlorofluoromethane	3.501	101	198726	46.613	ug/l	100
8) Diethyl Ether	3.953	74	71764	48.726	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	108081	45.010	ug/l	100
10) Methyl Iodide	4.589	142	143383	52.142	ug/l	100
11) Tert butyl alcohol	5.512	59	92841	251.894	ug/l	100
12) 1,1-Dichloroethene	4.342	96	106247	49.647	ug/l	100
13) Acrolein	4.171	56	139234	276.734	ug/l	100
14) Allyl chloride	5.018	41	168654	48.567	ug/l	100
15) Acrylonitrile	5.712	53	296781	253.507	ug/l	100
16) Acetone	4.418	43	251271	241.603	ug/l	100
17) Carbon Disulfide	4.706	76	294604	44.710	ug/l	100
18) Methyl Acetate	5.018	43	157485	49.798	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	373561	53.758	ug/l	100
20) Methylene Chloride	5.271	84	125508	48.748	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	110684	48.395	ug/l	100
22) Diisopropyl ether	6.665	45	406253	52.707	ug/l	100
23) Vinyl Acetate	6.594	43	1491031	275.471	ug/l	100
24) 1,1-Dichloroethane	6.565	63	233336	49.648	ug/l	100
25) 2-Butanone	7.477	43	388457	253.815	ug/l	100
26) 2,2-Dichloropropane	7.483	77	186591	49.106	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	136229	50.571	ug/l	100
28) Bromochloromethane	7.806	49	108148	49.461	ug/l	100
29) Tetrahydrofuran	7.830	42	259683	267.624	ug/l	100
30) Chloroform	7.959	83	234271	48.229	ug/l	100
31) Cyclohexane	8.253	56	175588	42.984	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	202590	47.547	ug/l	100
36) 1,1-Dichloropropene	8.365	75	157031	47.453	ug/l	100
37) Ethyl Acetate	7.553	43	165866	49.658	ug/l	100
38) Carbon Tetrachloride	8.359	117	180199	47.564	ug/l	100
39) Methylcyclohexane	9.600	83	157234	50.562	ug/l	100
40) Benzene	8.600	78	492606	49.542	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085439.D
 Acq On : 14 Jan 2025 15:19
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	91711	52.775	ug/l	100
42) 1,2-Dichloroethane	8.665	62	186065	49.685	ug/l	100
43) Isopropyl Acetate	8.683	43	276228	51.611	ug/l	100
44) Trichloroethene	9.347	130	109953	47.506	ug/l	100
45) 1,2-Dichloropropane	9.618	63	126084	49.644	ug/l	100
46) Dibromomethane	9.706	93	90670	49.476	ug/l	100
47) Bromodichloromethane	9.882	83	189915	50.867	ug/l	100
48) Methyl methacrylate	9.677	41	133399	55.385	ug/l	100
49) 1,4-Dioxane	9.688	88	43048	1061.334	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	836707	269.403	ug/l	100
52) Toluene	10.624	92	295792	51.341	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	187439	53.125	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	199771	53.006	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	115462	50.641	ug/l	100
56) Ethyl methacrylate	10.871	69	184775	48.182	ug/l	100
57) 1,3-Dichloropropane	11.159	76	204590	51.606	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	409594	283.088	ug/l	100
59) 2-Hexanone	11.188	43	606740	277.643	ug/l	100
60) Dibromochloromethane	11.353	129	140704	51.116	ug/l	100
61) 1,2-Dibromoethane	11.465	107	113541	50.028	ug/l	100
64) Tetrachloroethene	11.100	164	95879	47.295	ug/l	100
65) Chlorobenzene	11.888	112	319992	49.121	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116488	48.722	ug/l	100
67) Ethyl Benzene	11.959	91	555322	52.339	ug/l	100
68) m/p-Xylenes	12.065	106	420702	107.286	ug/l	100
69) o-Xylene	12.394	106	202597	54.062	ug/l	100
70) Styrene	12.406	104	348720	56.227	ug/l	100
71) Bromoform	12.576	173	92366	53.993	ug/l #	100
73) Isopropylbenzene	12.688	105	505619	51.094	ug/l	100
74) N-ethyl acetate	12.488	43	237870	53.478	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	167856	48.019	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	130866m	43.982	ug/l	
77) Bromobenzene	12.976	156	125800	48.657	ug/l	100
78) n-propylbenzene	13.029	91	609022	51.986	ug/l	100
79) 2-Chlorotoluene	13.123	91	378981	49.985	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	431021	52.730	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57184	51.914	ug/l	100
82) 4-Chlorotoluene	13.218	91	379524	50.273	ug/l	100
83) tert-Butylbenzene	13.435	119	357563	52.090	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	442175	54.275	ug/l	100
85) sec-Butylbenzene	13.612	105	501561	52.719	ug/l	100
86) p-Isopropyltoluene	13.723	119	421052	49.240	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	229518	48.204	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	229084	46.416	ug/l	100
89) n-Butylbenzene	14.053	91	364111	53.348	ug/l	100
90) Hexachloroethane	14.329	117	84602	46.712	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	228024	48.012	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32536	50.971	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	114468	51.857	ug/l	100
94) Hexachlorobutadiene	15.500	225	53846	45.947	ug/l	100
95) Naphthalene	15.635	128	363882	55.243	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	115251	51.601	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

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

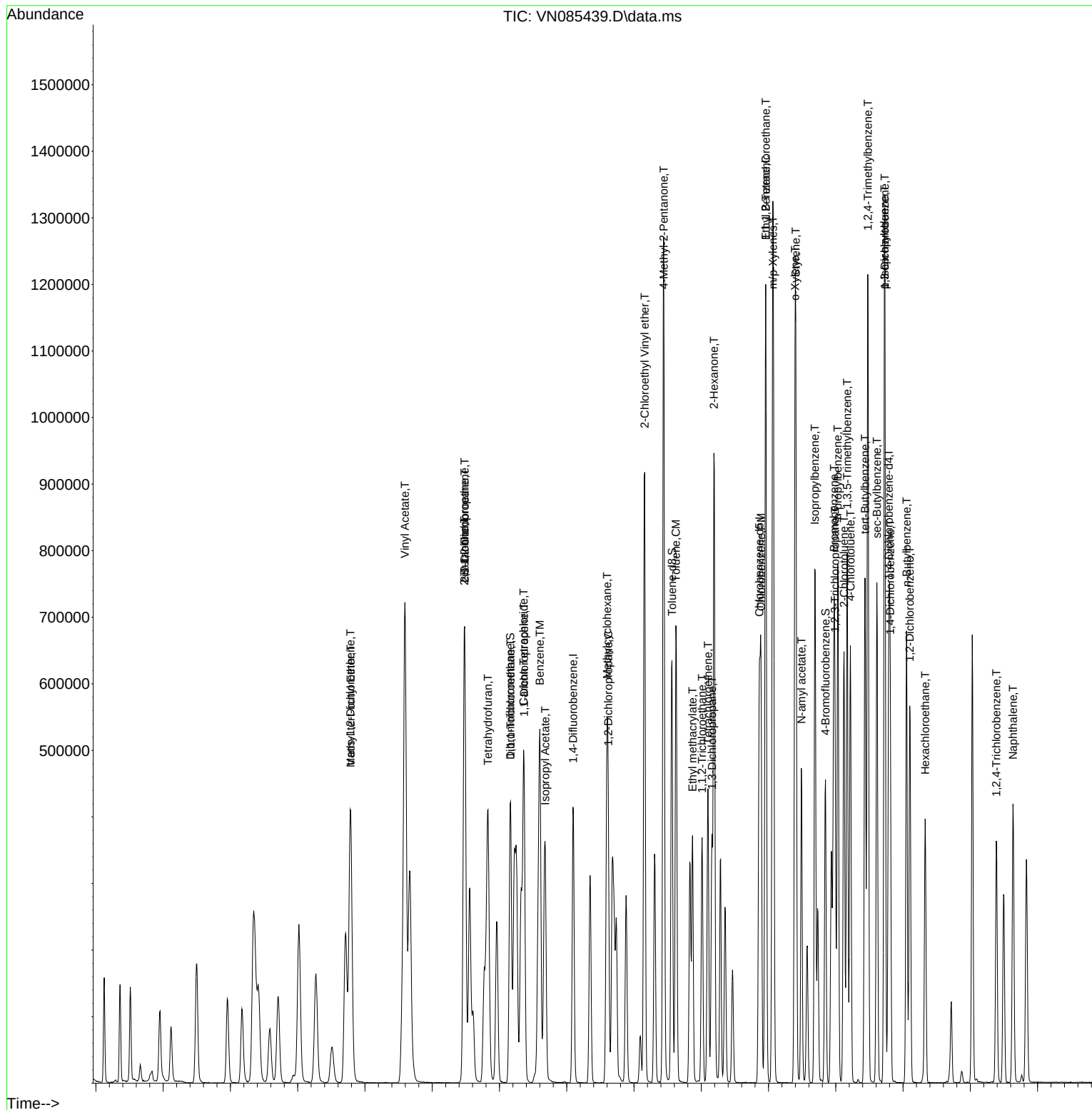
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Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

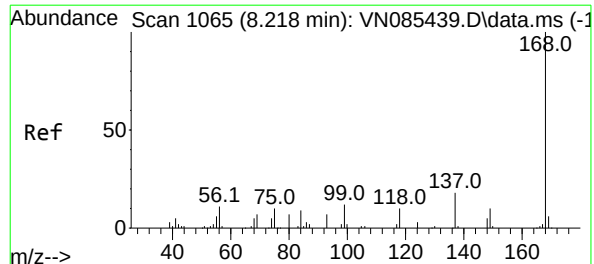
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





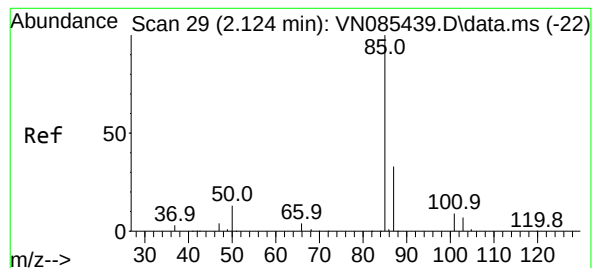
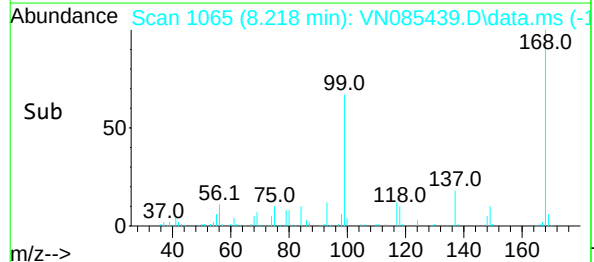
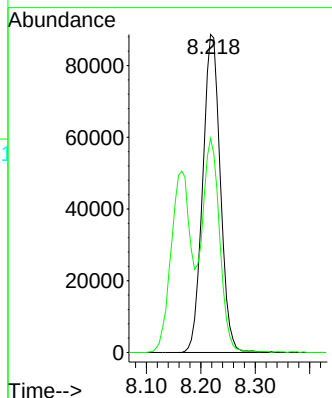
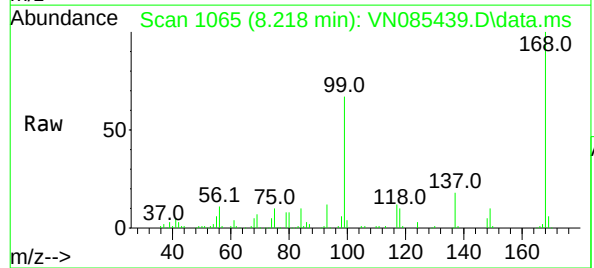
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 168 Resp: 199403
Ion Ratio Lower Upper
168 100
99 67.0 53.6 80.4

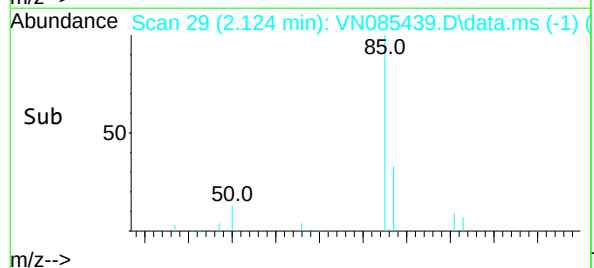
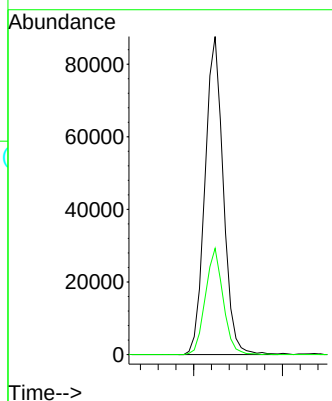
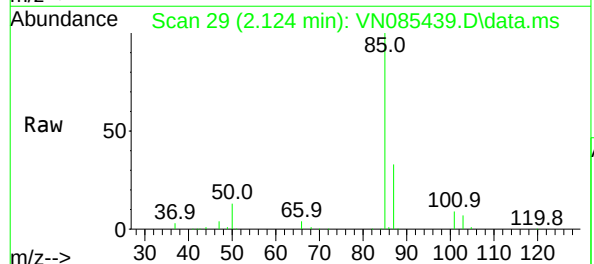
Manual Integrations
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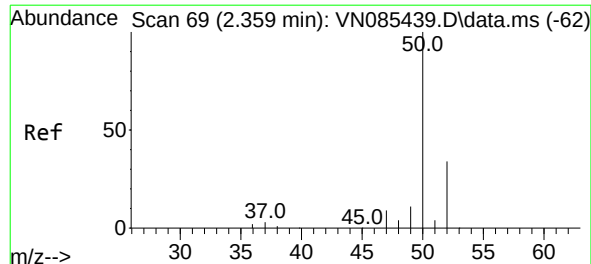
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 46.486 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 85 Resp: 125504
Ion Ratio Lower Upper
85 100
87 33.4 16.7 50.1





#3

Chloromethane

Concen: 46.398 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 135631

Ion Ratio Lower Upper

50 100

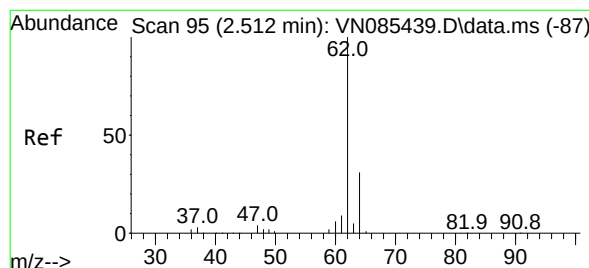
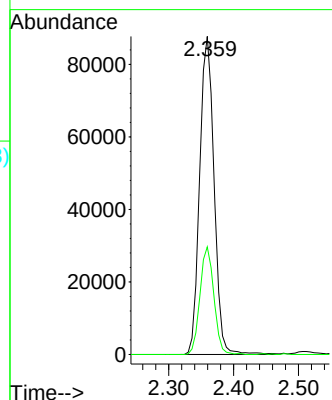
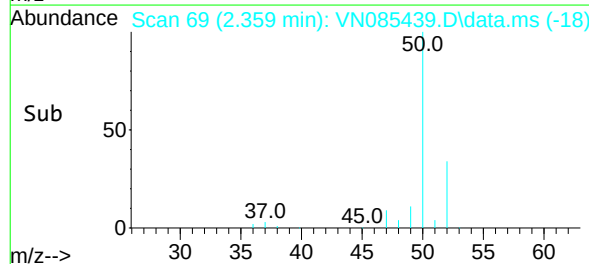
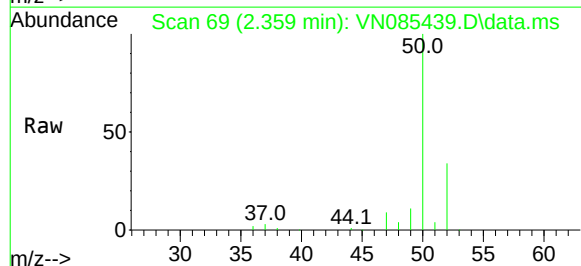
52 33.8 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 46.569 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085439.D

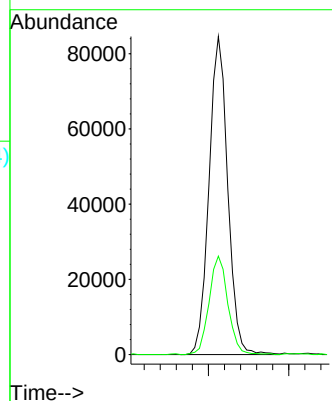
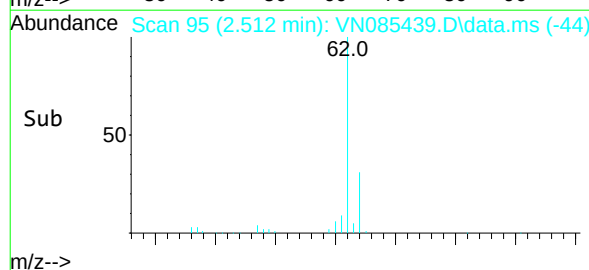
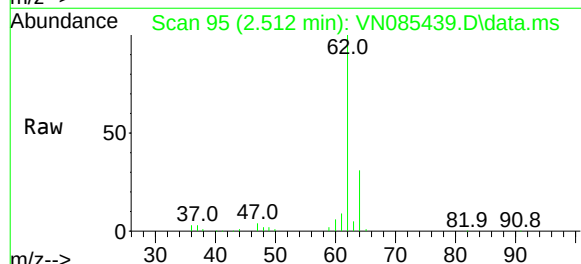
Acq: 14 Jan 2025 15:19

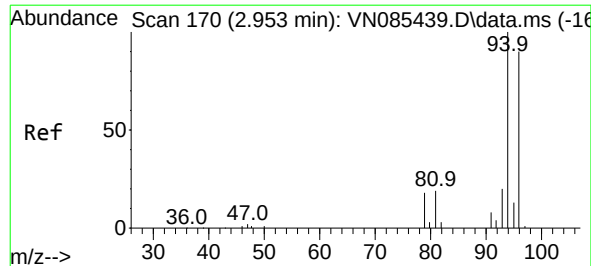
Tgt Ion: 62 Resp: 136831

Ion Ratio Lower Upper

62 100

64 31.0 24.8 37.2





#5

Bromomethane

Concen: 46.877 ug/l

RT: 2.953 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 83199

Ion Ratio Lower Upper

94 100

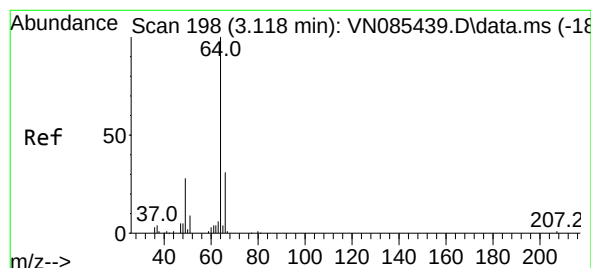
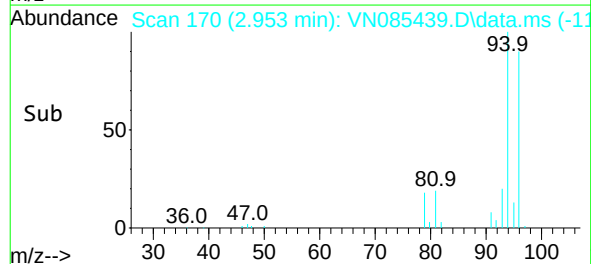
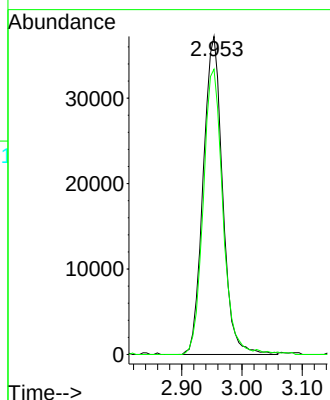
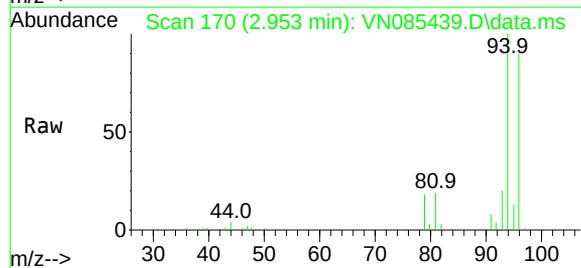
96 89.7 71.8 107.6

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 45.371 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN085439.D

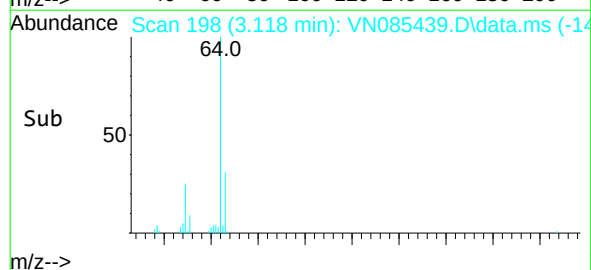
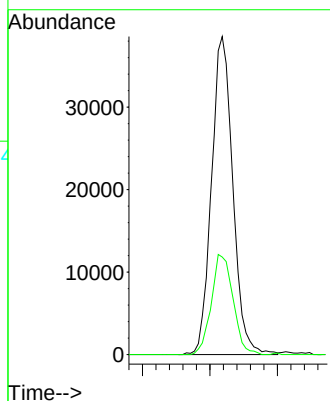
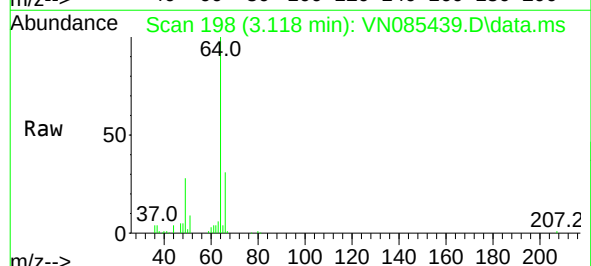
Acq: 14 Jan 2025 15:19

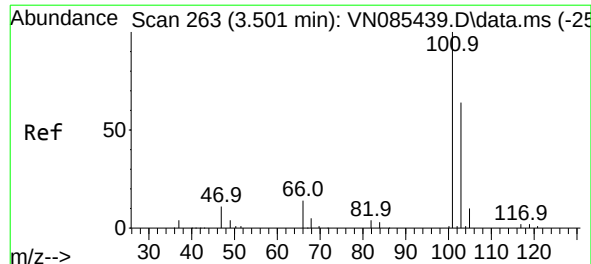
Tgt Ion: 64 Resp: 84517

Ion Ratio Lower Upper

64 100

66 30.7 24.6 36.8





#7

Trichlorofluoromethane

Concen: 46.613 ug/l

RT: 3.501 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 101 Resp: 198726

Ion Ratio Lower Upper

101 100

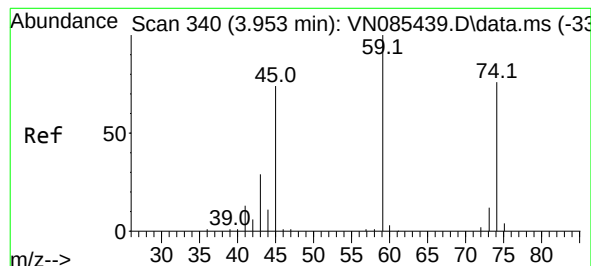
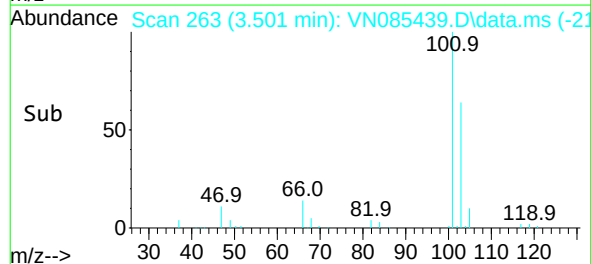
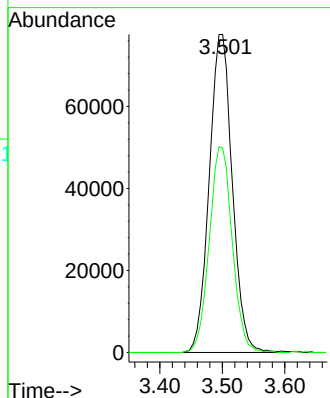
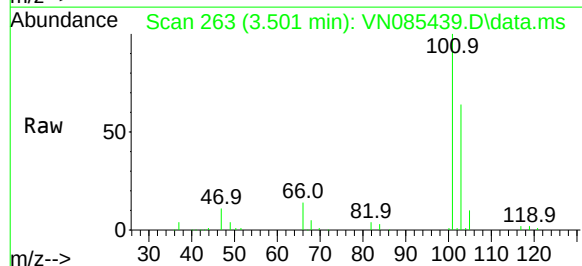
103 64.3 51.4 77.2

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 48.726 ug/l

RT: 3.953 min Scan# 340

Delta R.T. 0.000 min

Lab File: VN085439.D

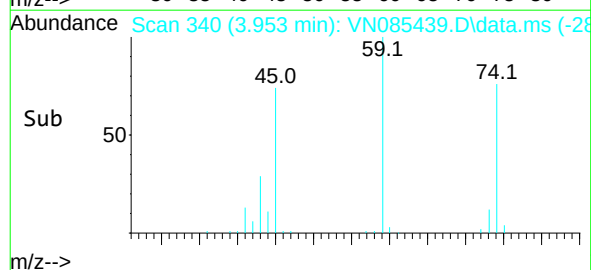
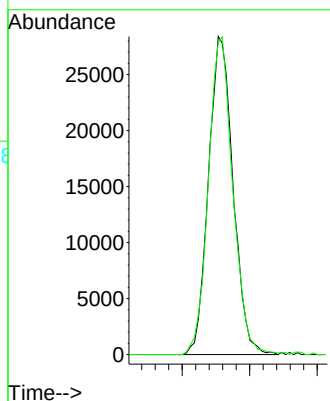
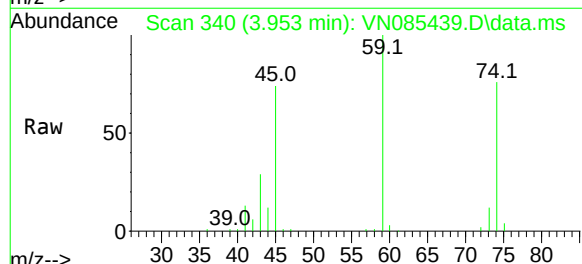
Acq: 14 Jan 2025 15:19

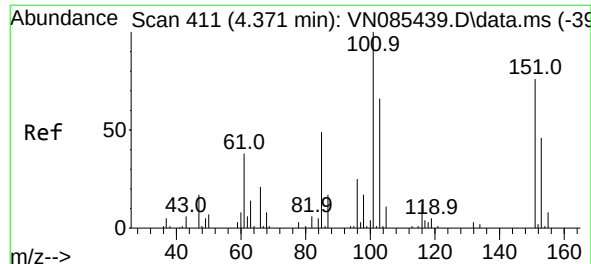
Tgt Ion: 74 Resp: 71764

Ion Ratio Lower Upper

74 100

45 99.4 49.7 149.1





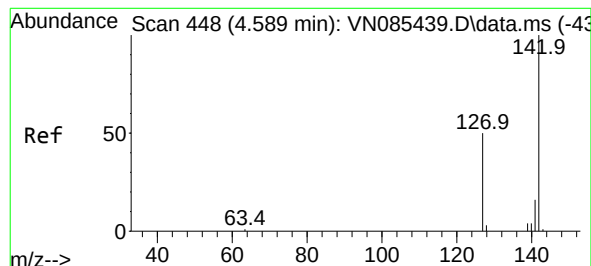
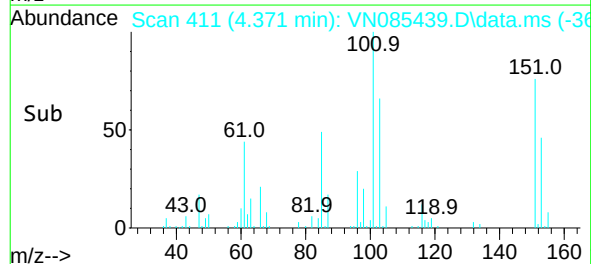
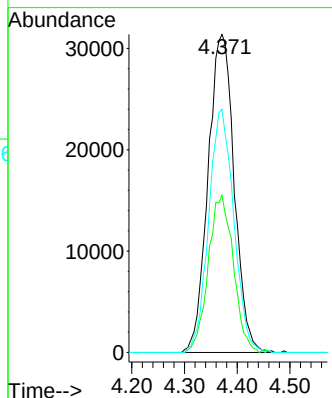
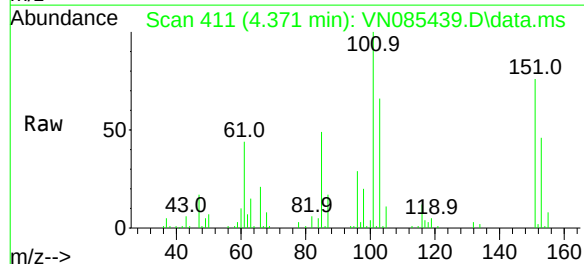
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.010 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 108081
Ion Ratio Lower Upper
101 100
85 47.3 37.8 56.8
151 73.5 58.8 88.2

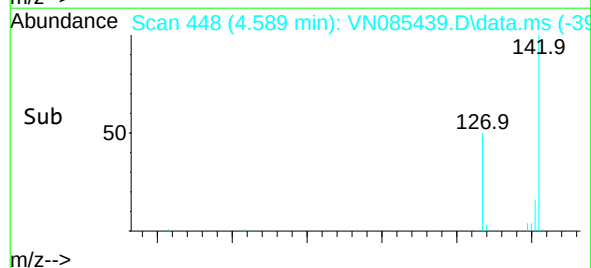
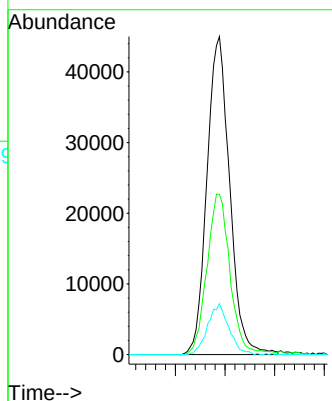
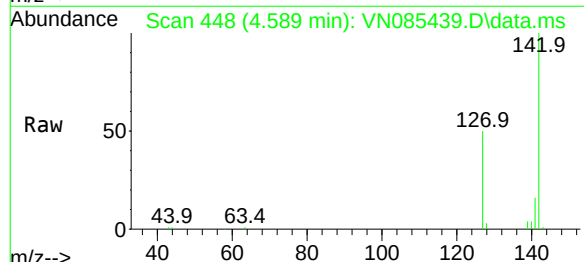
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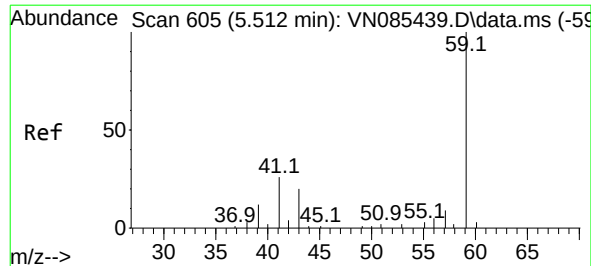
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 52.142 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:142 Resp: 143383
Ion Ratio Lower Upper
142 100
127 50.4 40.3 60.5
141 16.0 12.8 19.2





#11

Tert butyl alcohol

Concen: 251.894 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 92841

Ion Ratio Lower Upper

59 100

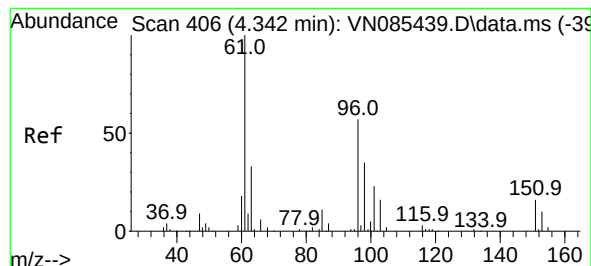
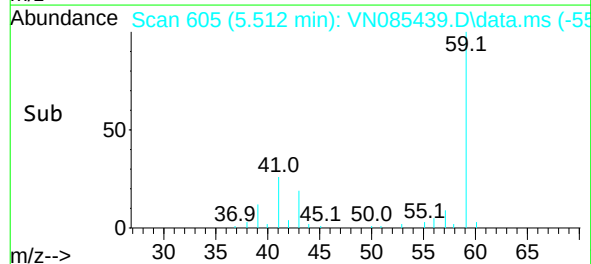
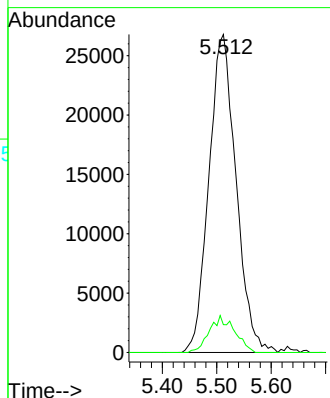
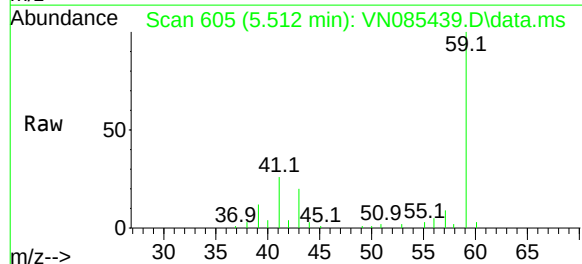
57 10.8 8.6 13.0

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 49.647 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

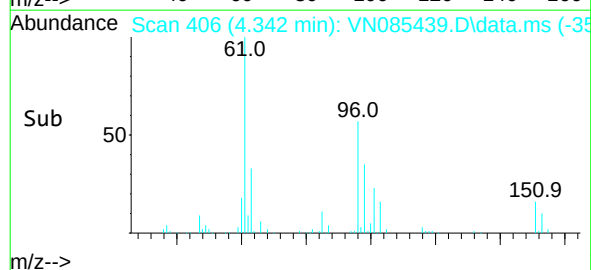
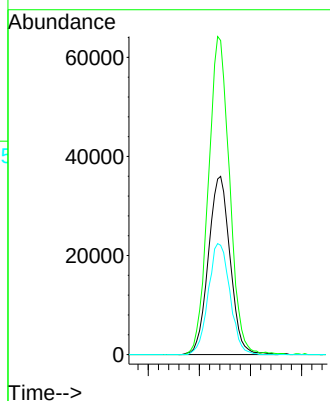
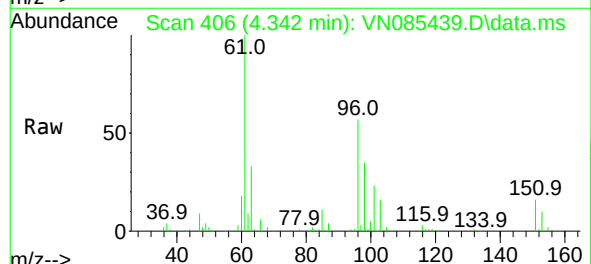
Tgt Ion: 96 Resp: 106247

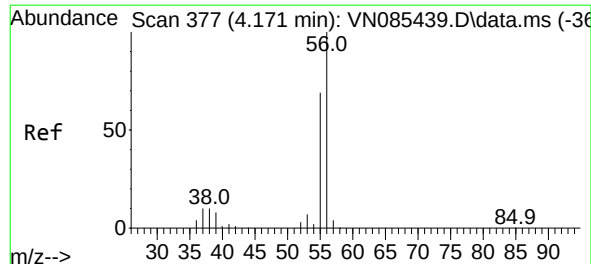
Ion Ratio Lower Upper

96 100

61 176.2 141.0 211.4

98 61.3 49.0 73.6





#13

Acrolein

Concen: 276.734 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 139234

Ion Ratio Lower Upper

56 100

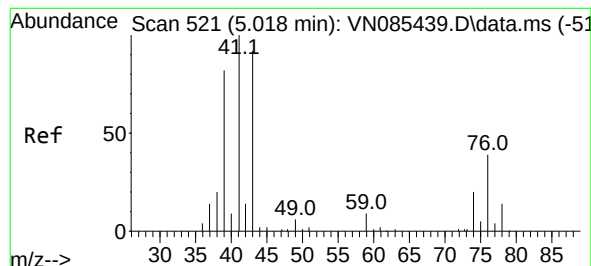
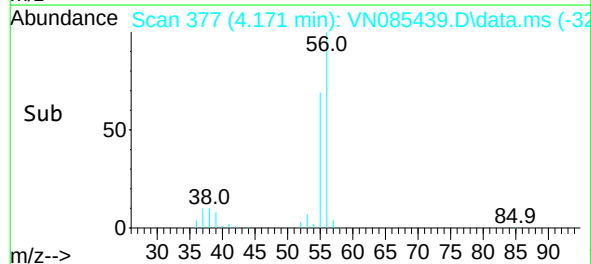
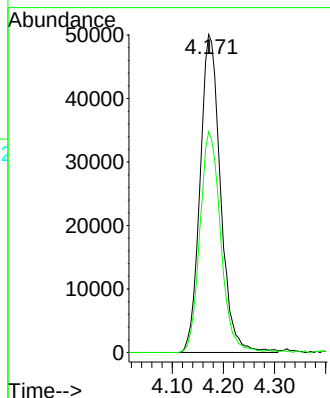
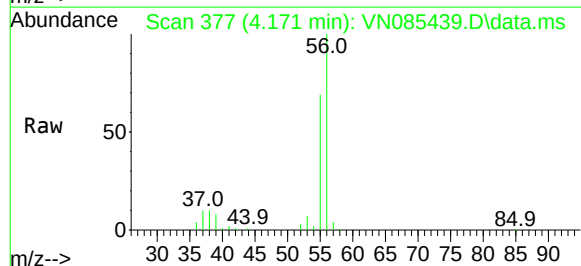
55 70.4 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 48.567 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

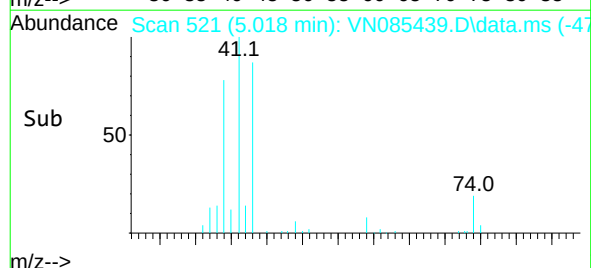
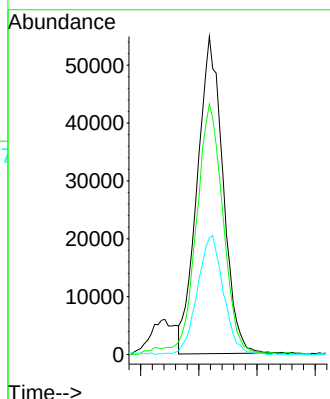
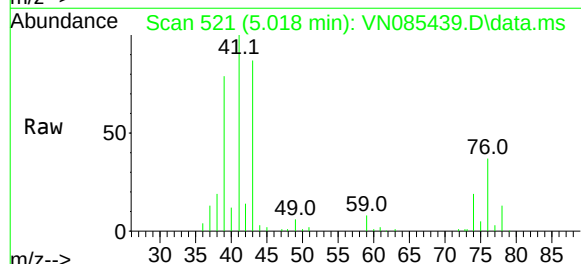
Tgt Ion: 41 Resp: 168654

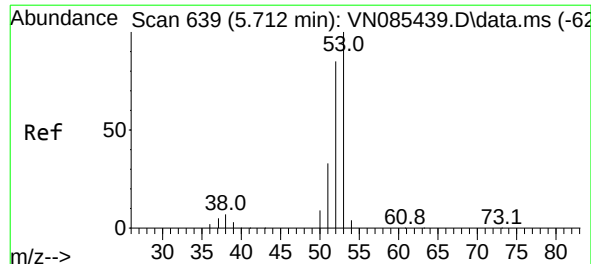
Ion Ratio Lower Upper

41 100

39 80.5 64.4 96.6

76 38.1 30.5 45.7





#15

Acrylonitrile

Concen: 253.507 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

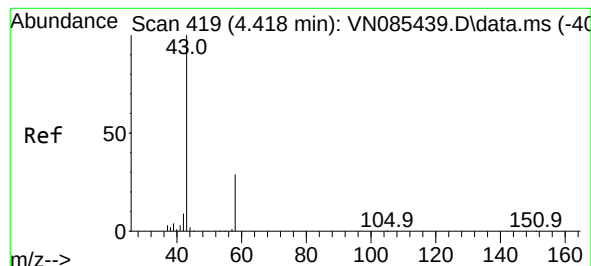
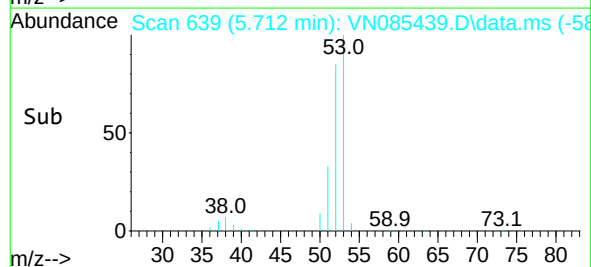
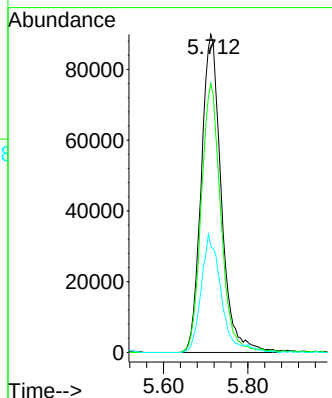
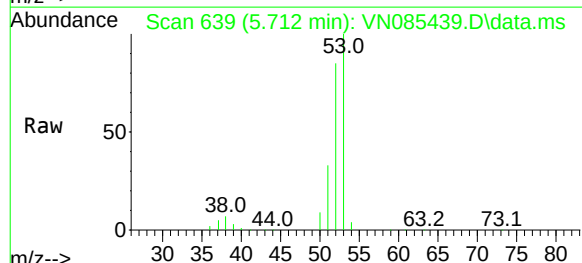
ClientSampleId :

VSTDICCC050

Tgt Ion:	53	Resp:	296781
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.5	98.3
51	37.3	29.8	44.8

Manual Integrations
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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 241.603 ug/l

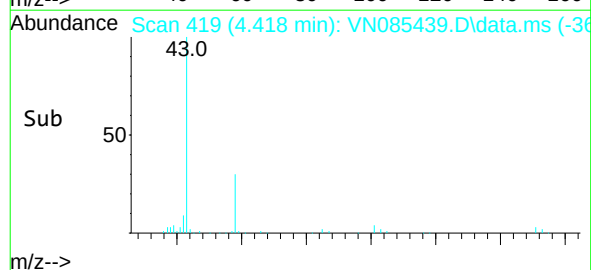
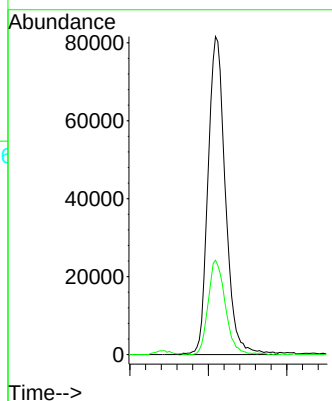
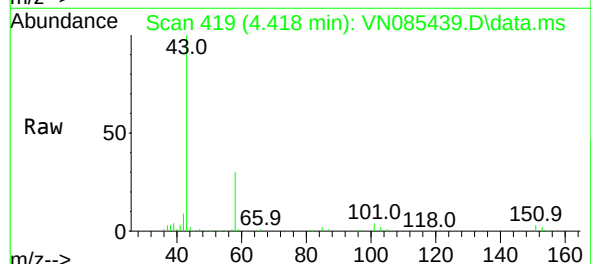
RT: 4.418 min Scan# 419

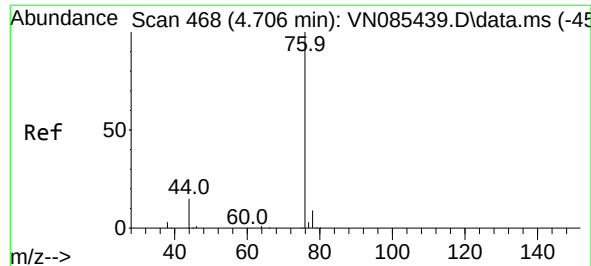
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	43	Resp:	251271
Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.8	35.6





#17

Carbon Disulfide

Concen: 44.710 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 294604

Ion Ratio Lower Upper

76 100

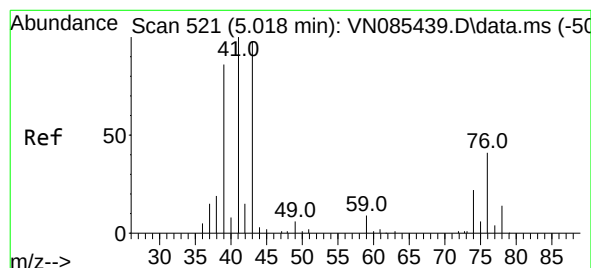
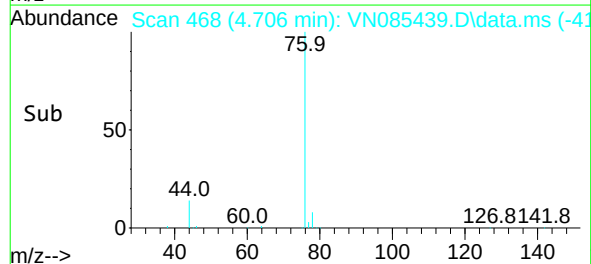
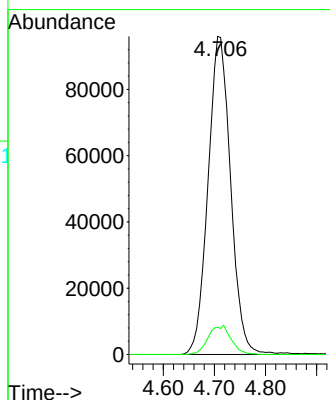
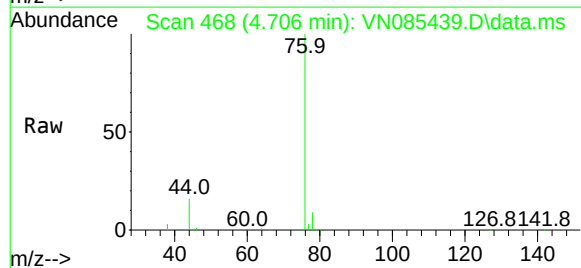
78 8.6 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 49.798 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085439.D

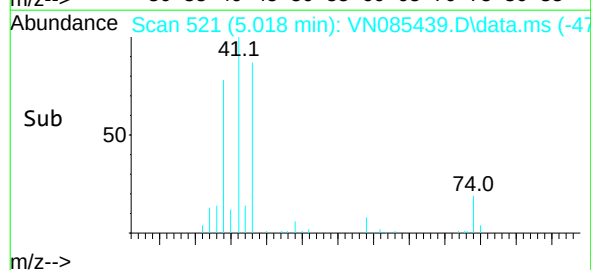
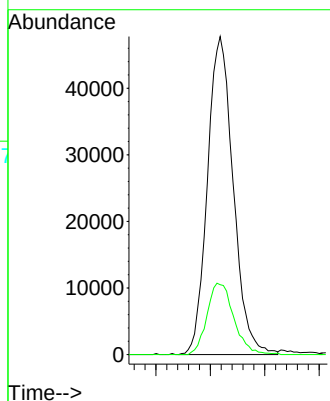
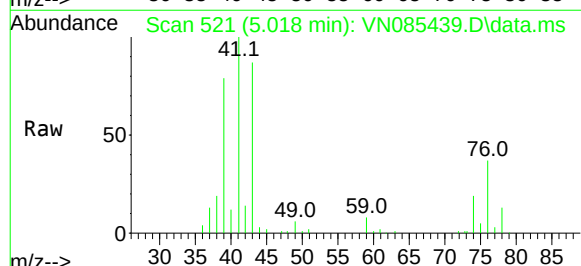
Acq: 14 Jan 2025 15:19

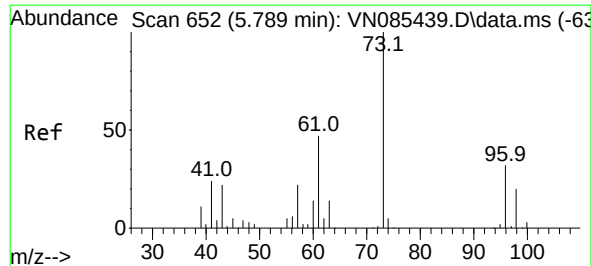
Tgt Ion: 43 Resp: 157485

Ion Ratio Lower Upper

43 100

74 23.3 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 53.758 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 373561

Ion Ratio Lower Upper

73 100

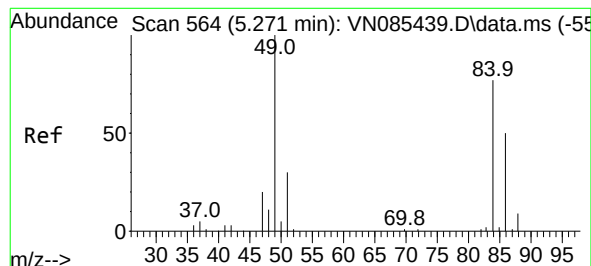
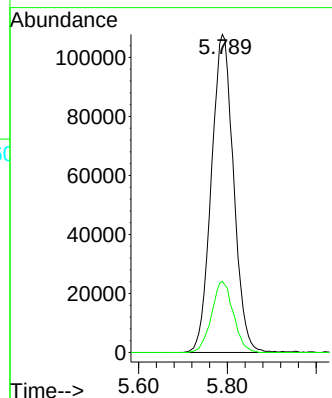
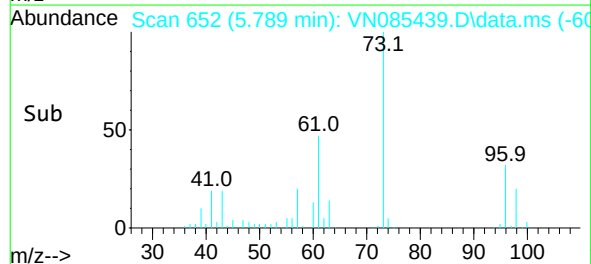
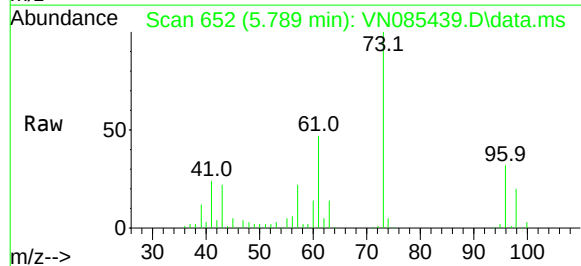
57 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 48.748 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion: 84 Resp: 125508

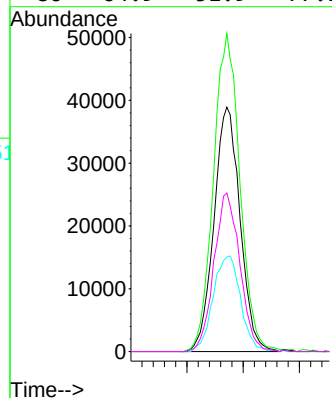
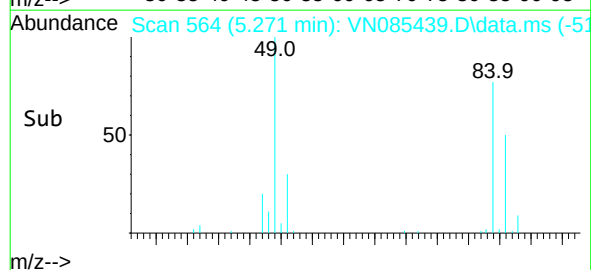
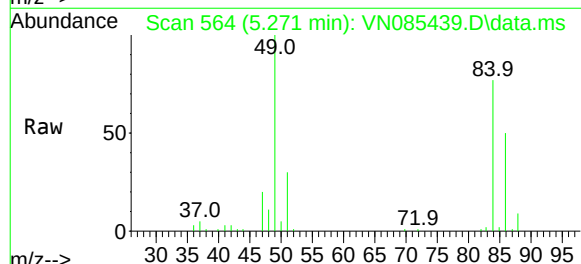
Ion Ratio Lower Upper

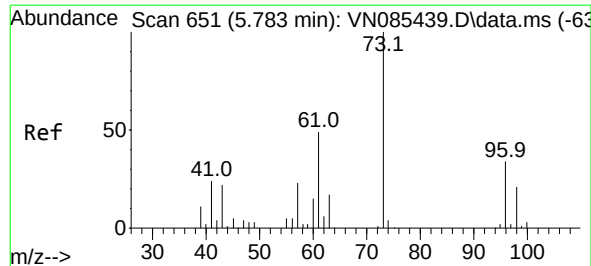
84 100

49 130.1 104.1 156.1

51 38.7 31.0 46.4

86 64.9 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 48.395 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 110684

Ion Ratio Lower Upper

96 100

61 144.6 115.7 173.5

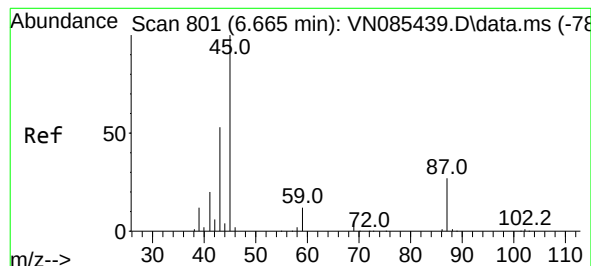
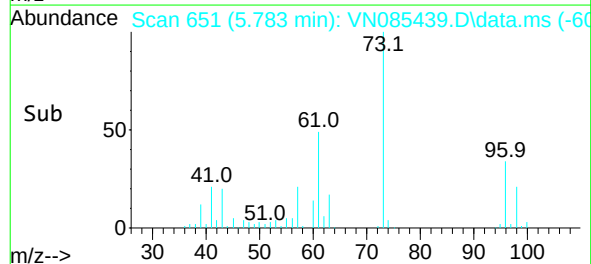
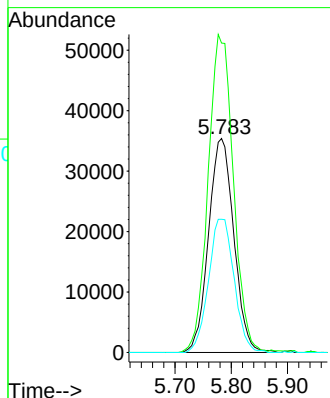
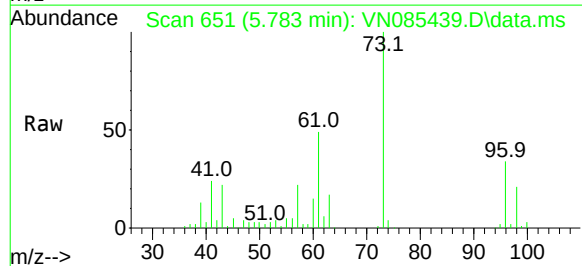
98 62.3 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 52.707 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion: 45 Resp: 406253

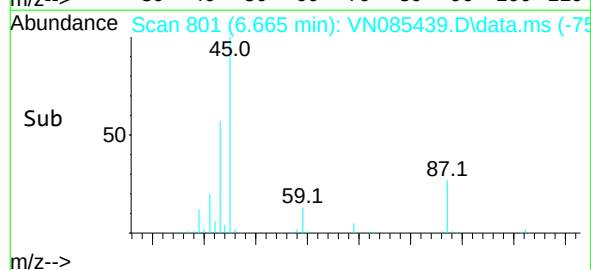
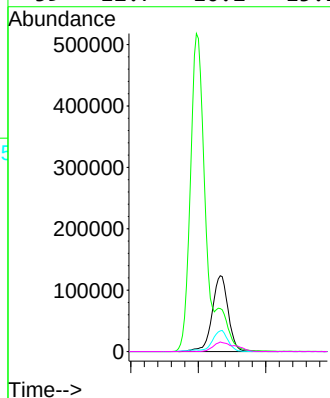
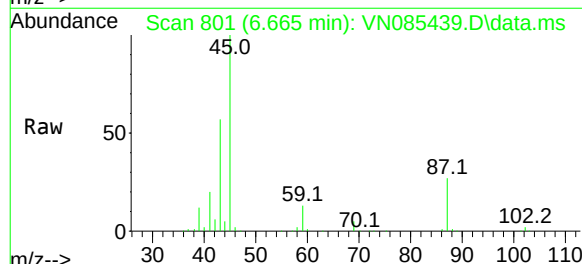
Ion Ratio Lower Upper

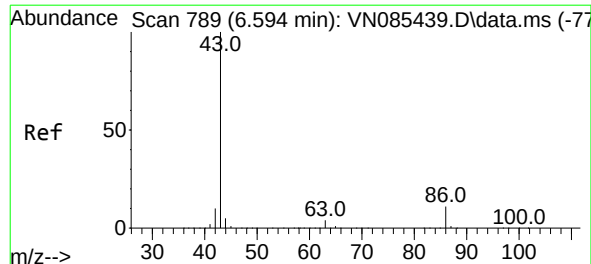
45 100

43 56.3 45.0 67.6

87 27.3 21.8 32.8

59 12.7 10.2 15.2





#23

Vinyl Acetate

Concen: 275.471 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1491031

Ion Ratio Lower Upper

43 100

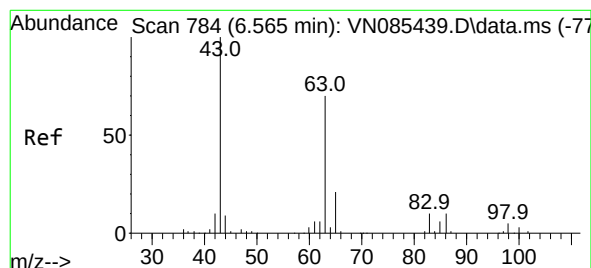
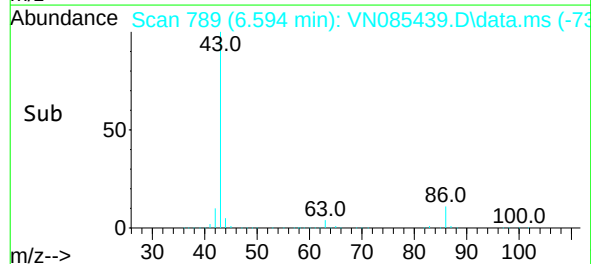
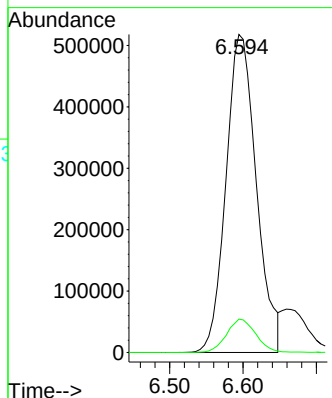
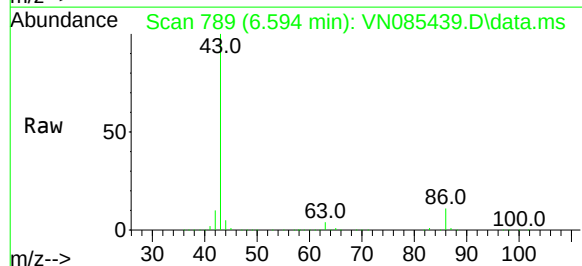
86 10.5 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 49.648 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

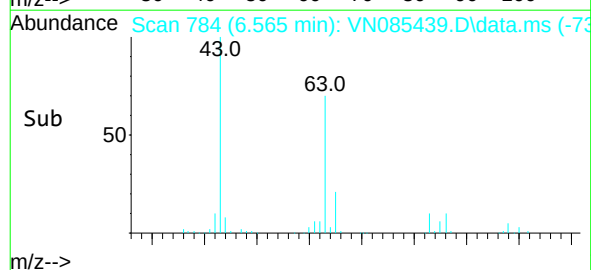
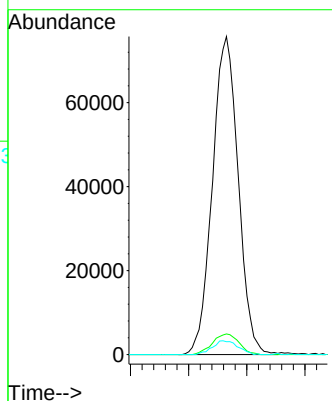
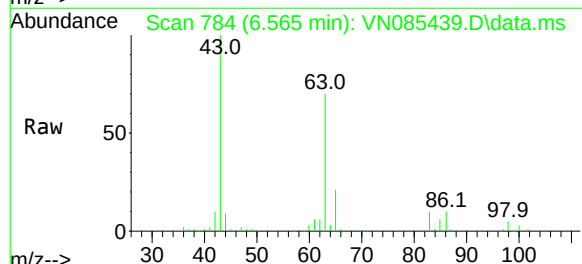
Tgt Ion: 63 Resp: 233336

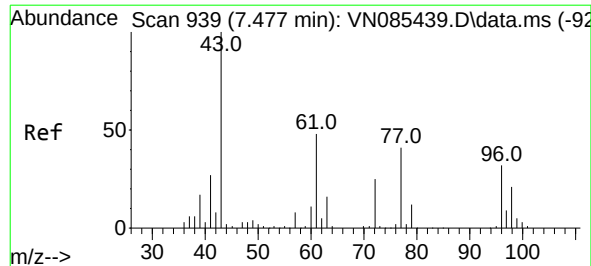
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 253.815 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 388457

Ion Ratio Lower Upper

43 100

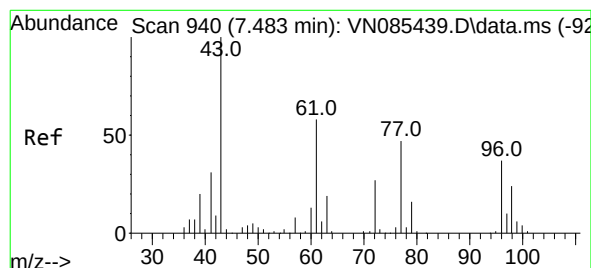
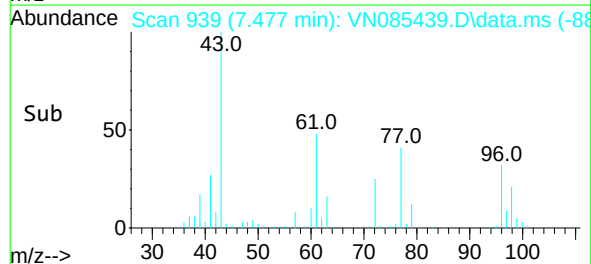
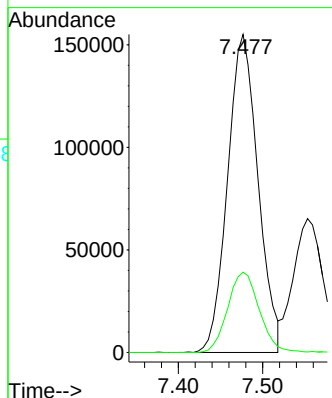
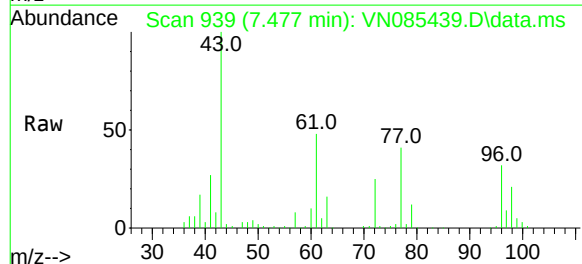
72 25.3 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 49.106 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085439.D

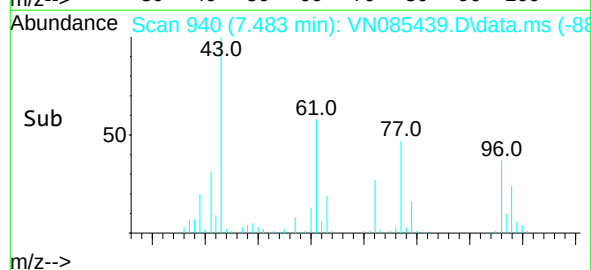
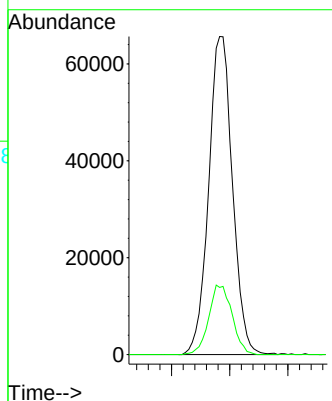
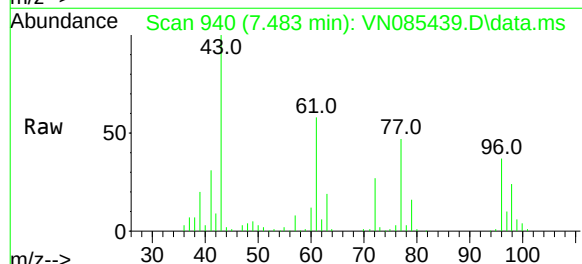
Acq: 14 Jan 2025 15:19

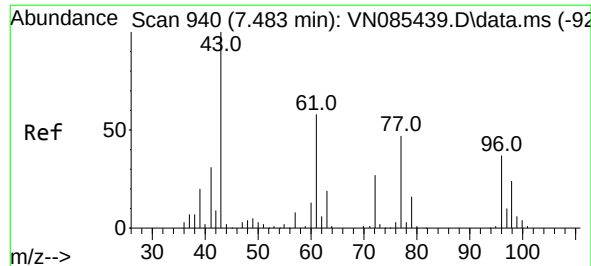
Tgt Ion: 77 Resp: 186591

Ion Ratio Lower Upper

77 100

97 21.4 10.7 32.1





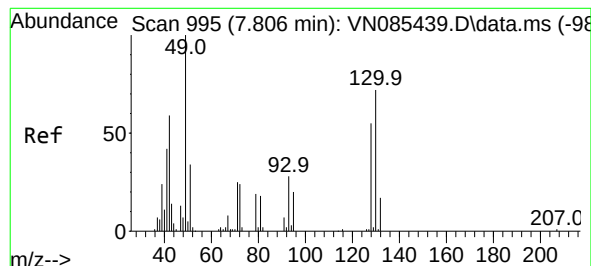
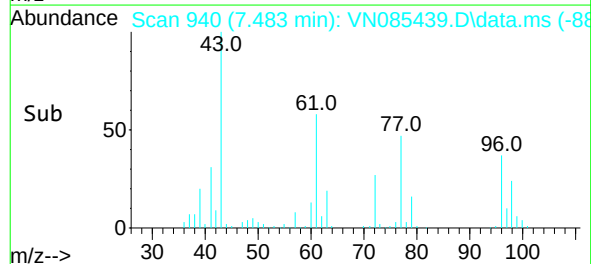
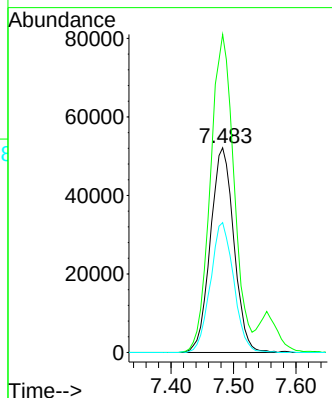
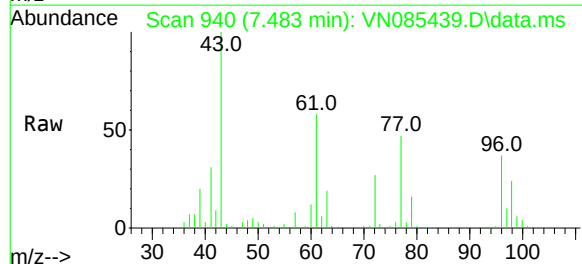
#27
cis-1,2-Dichloroethene
Concen: 50.571 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 136229
Ion Ratio Lower Upper
96 100
61 155.9 0.0 311.8
98 63.0 0.0 126.0

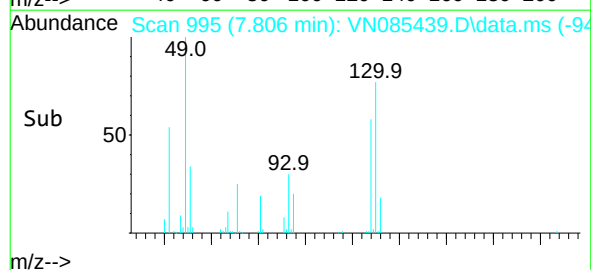
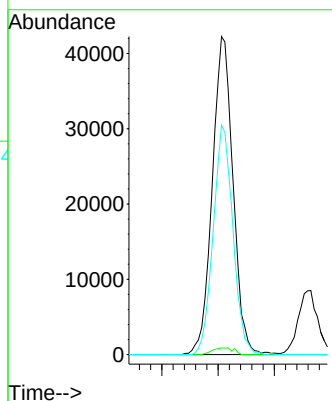
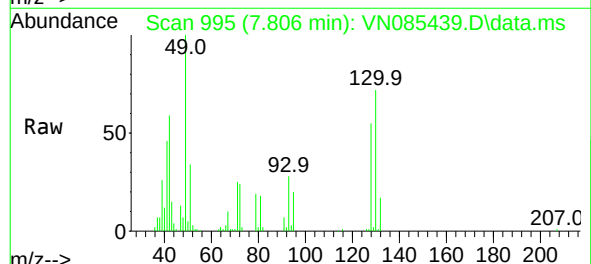
Manual Integrations
APPROVED

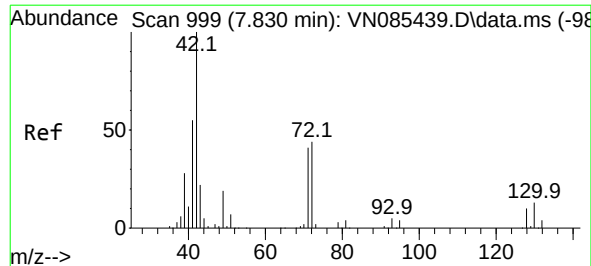
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 49.461 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 49 Resp: 108148
Ion Ratio Lower Upper
49 100
129 2.2 0.0 4.4
130 68.7 55.0 82.4





#29

Tetrahydrofuran

Concen: 267.624 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

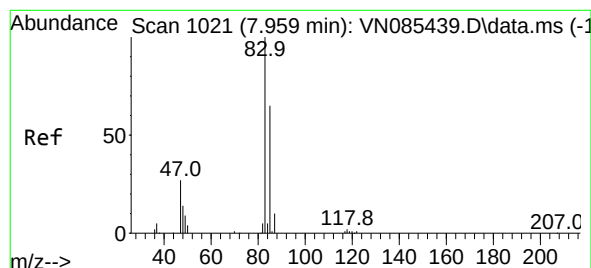
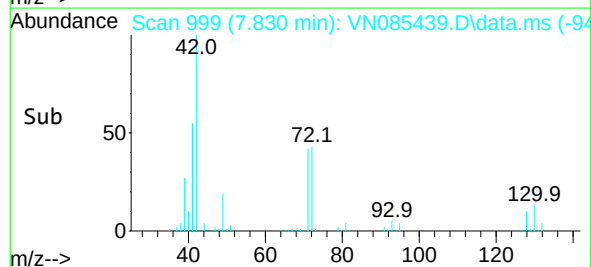
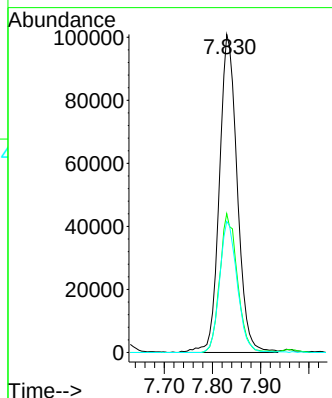
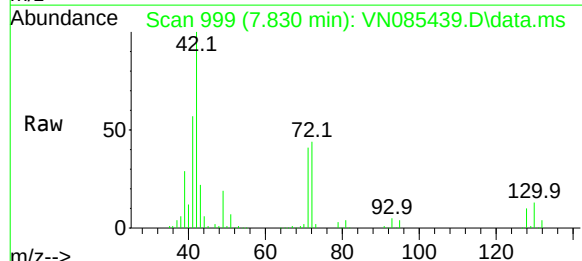
ClientSampleId :

VSTDICCC050

Tgt Ion:	42	Resp:	259683
Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	40.6	32.5	48.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 48.229 ug/l

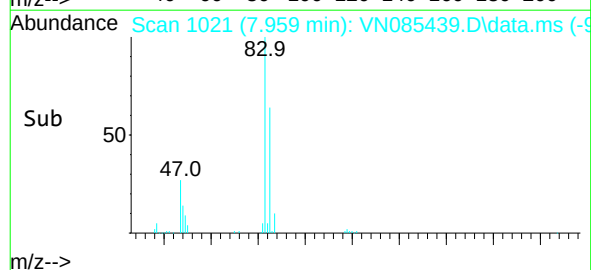
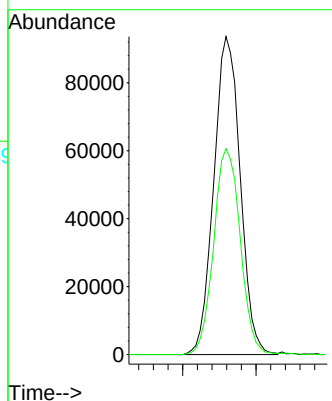
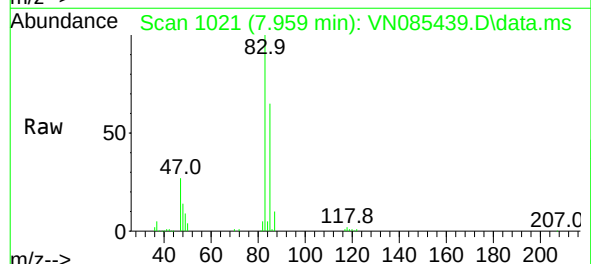
RT: 7.959 min Scan# 1021

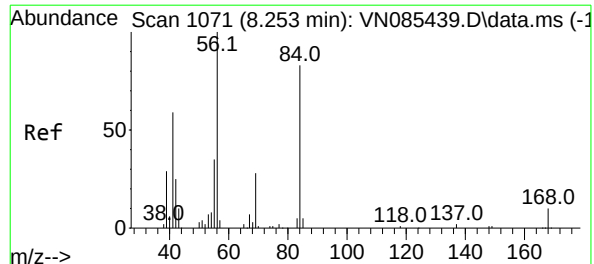
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	83	Resp:	234271
Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6





#31

Cyclohexane

Concen: 42.984 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 175588

Ion Ratio Lower Upper

56 100

69 27.8 22.2 33.4

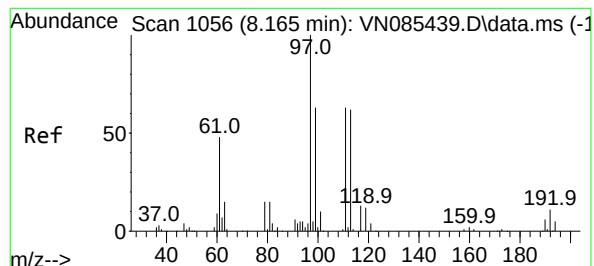
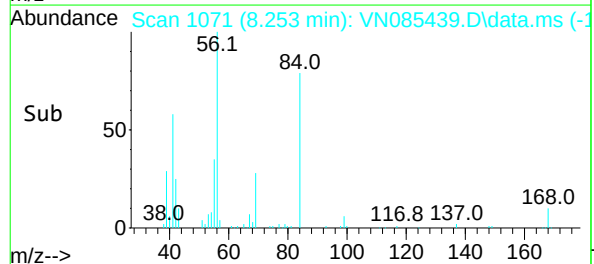
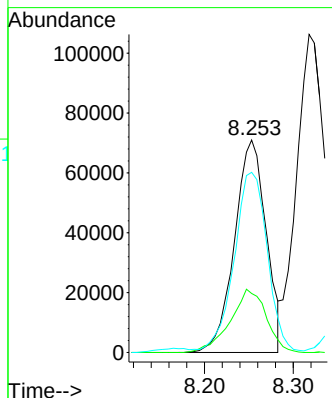
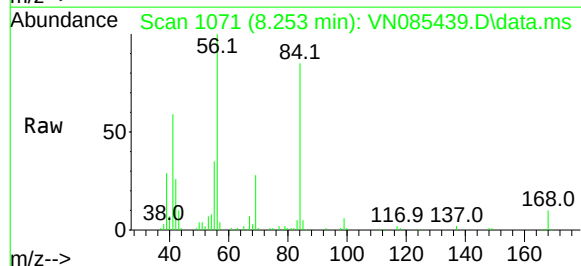
84 83.0 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 47.547 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

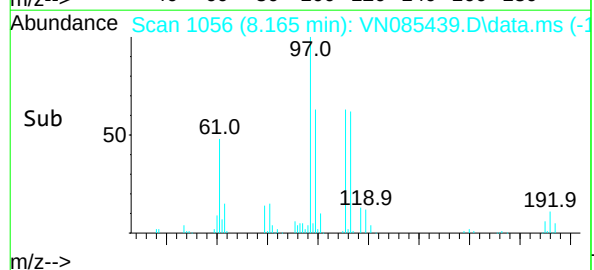
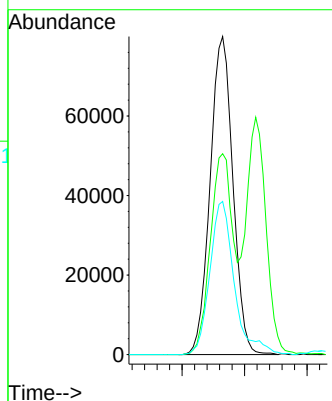
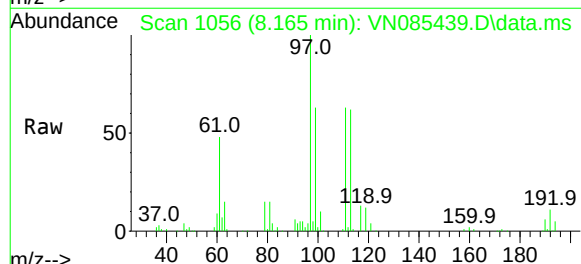
Tgt Ion: 97 Resp: 202590

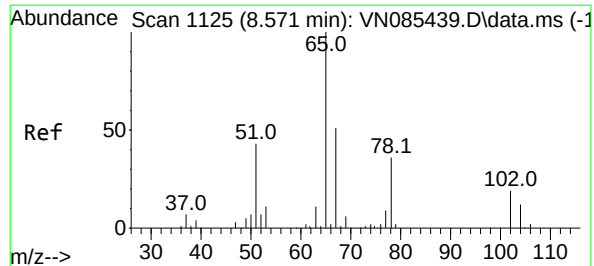
Ion Ratio Lower Upper

97 100

99 62.2 49.8 74.6

61 51.8 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 51.500 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 165768

Ion Ratio Lower Upper

65 100

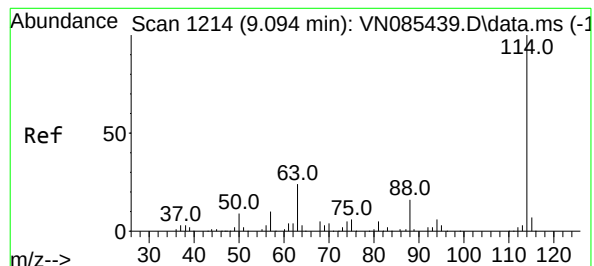
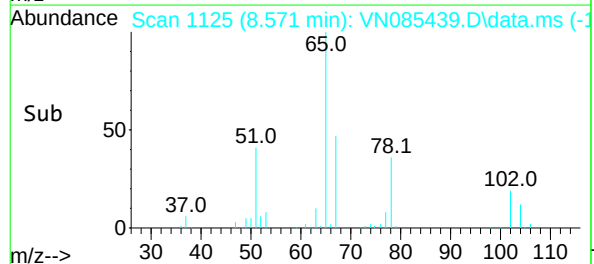
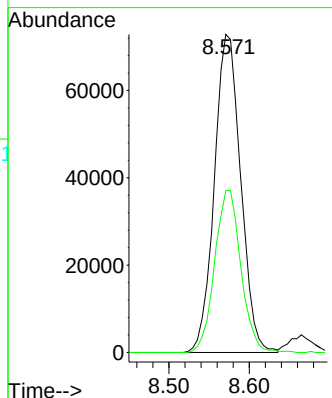
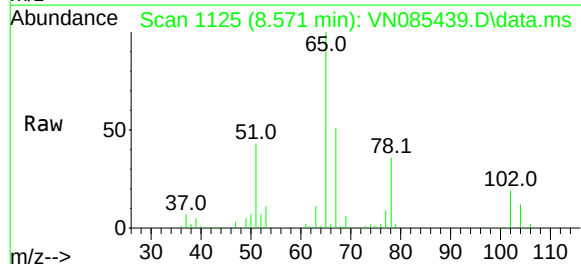
67 50.8 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

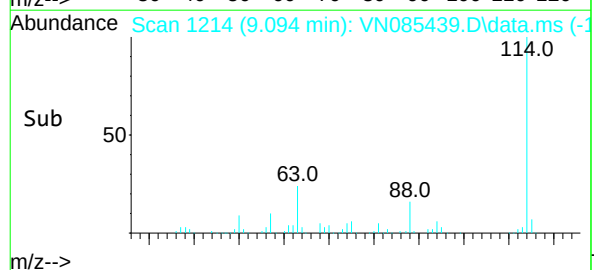
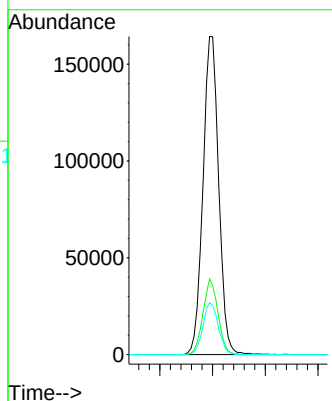
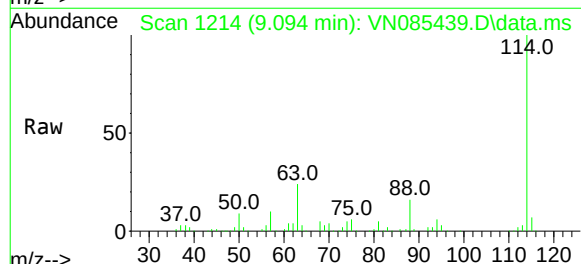
Tgt Ion:114 Resp: 339872

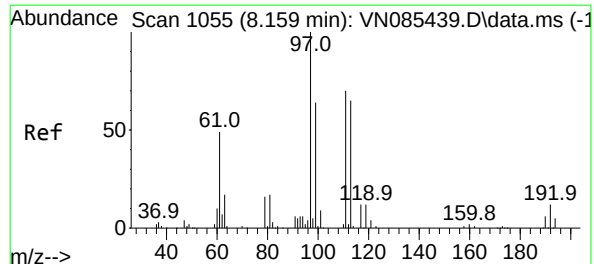
Ion Ratio Lower Upper

114 100

63 23.8 0.0 47.6

88 16.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.552 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 113 Resp: 121554

Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

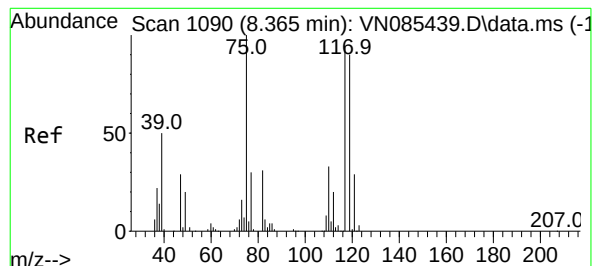
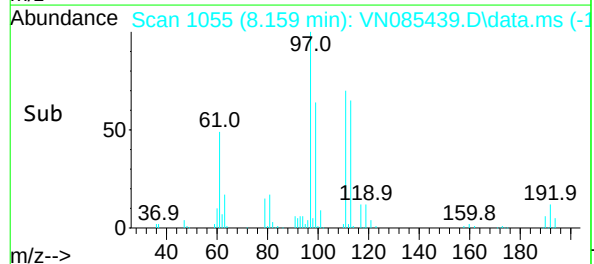
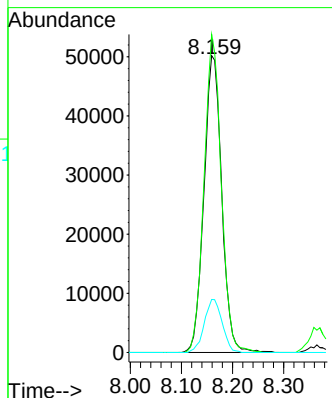
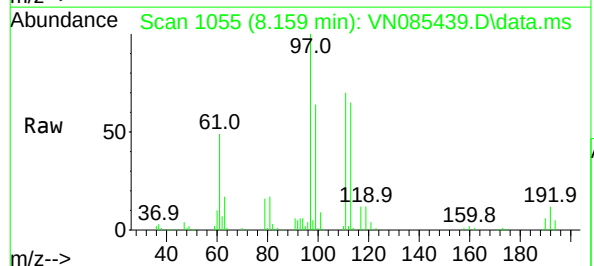
192 17.9 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 47.453 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

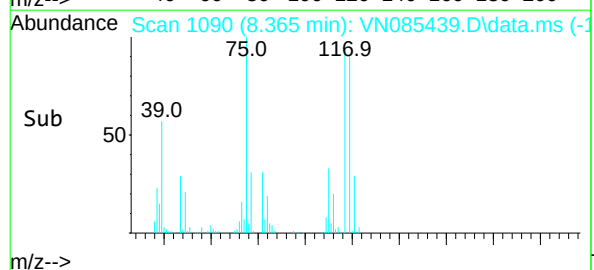
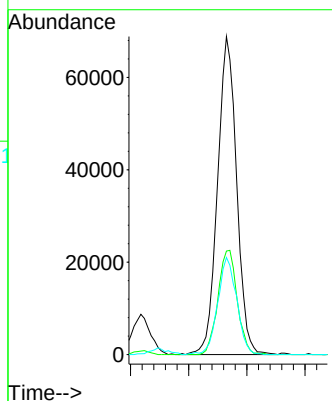
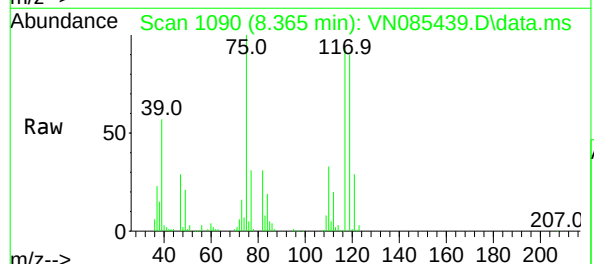
Tgt Ion: 75 Resp: 157031

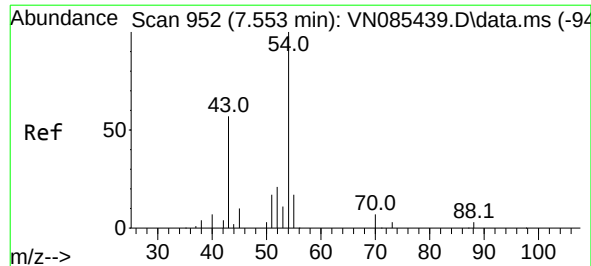
Ion Ratio Lower Upper

75 100

110 33.0 16.5 49.5

77 30.5 24.4 36.6





#37

Ethyl Acetate

Concen: 49.658 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 165866

Ion Ratio Lower Upper

43 100

61 13.6 10.9 16.3

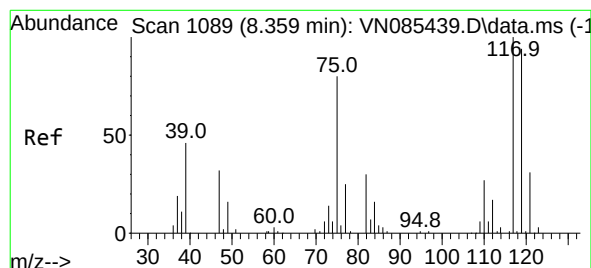
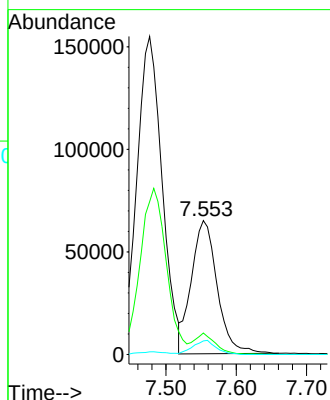
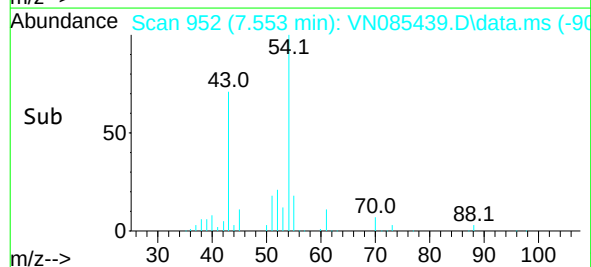
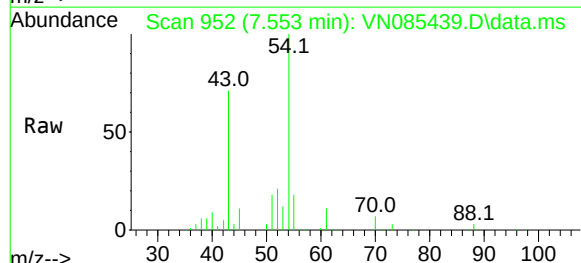
70 9.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 47.564 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

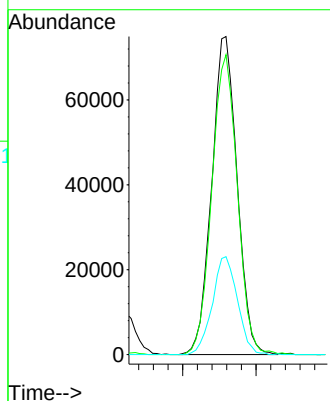
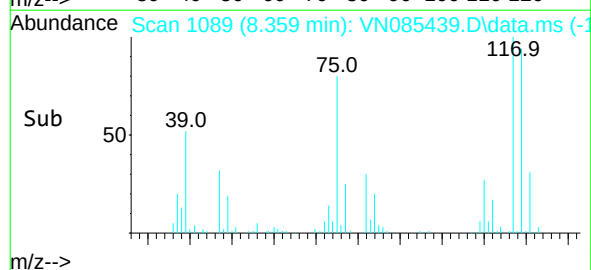
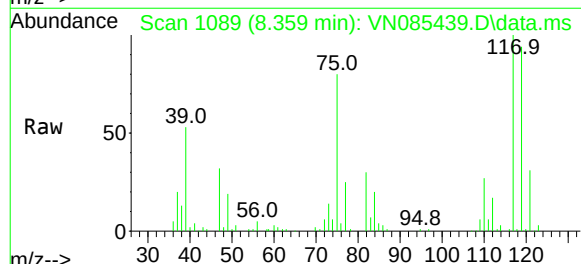
Tgt Ion:117 Resp: 180199

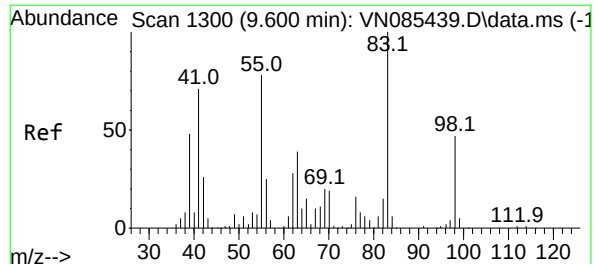
Ion Ratio Lower Upper

117 100

119 94.3 75.4 113.2

121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 50.562 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

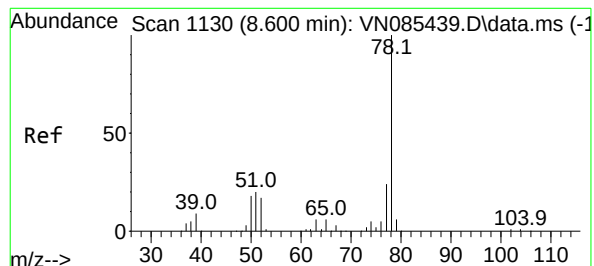
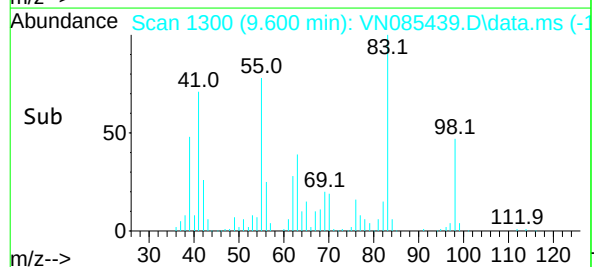
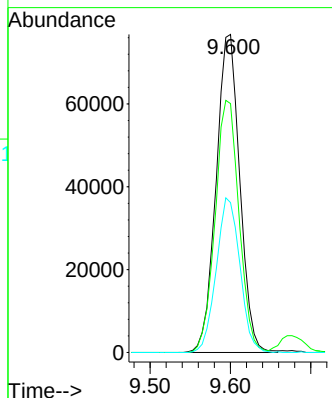
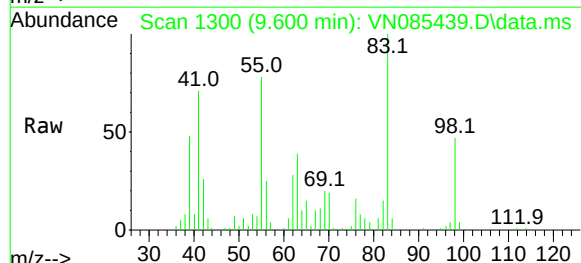
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	157234
Ion	Ratio	Lower	Upper
83	100		
55	78.3	62.6	94.0
98	47.1	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 49.542 ug/l

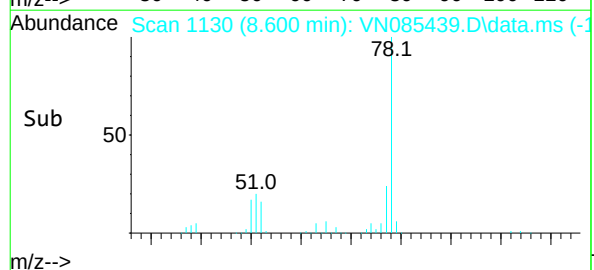
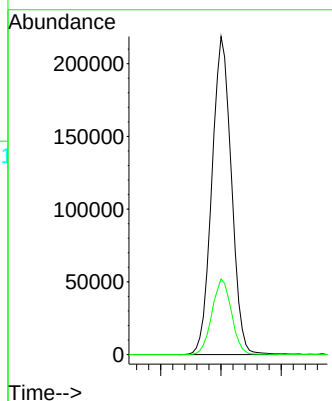
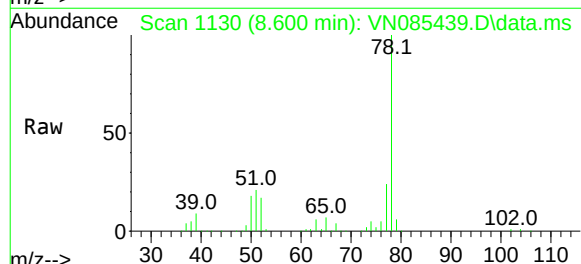
RT: 8.600 min Scan# 1130

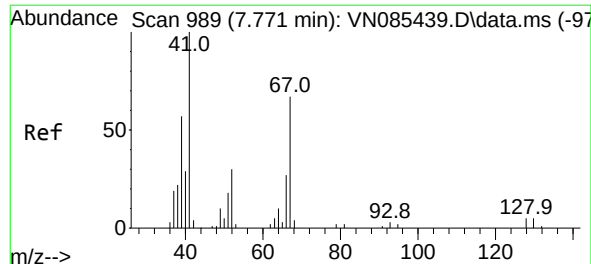
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	78	Resp:	492606
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





#41

Methacrylonitrile

Concen: 52.775 ug/l

RT: 7.771 min Scan# 989

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 91711

Ion Ratio Lower Upper

41 100

39 57.5 46.0 69.0

67 71.8 57.4 86.2

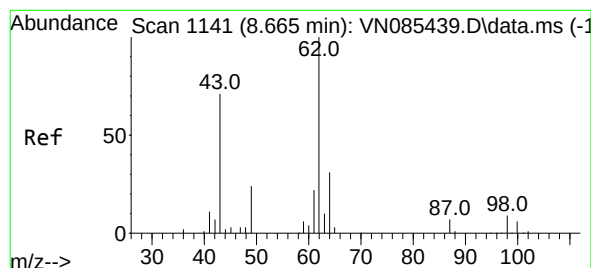
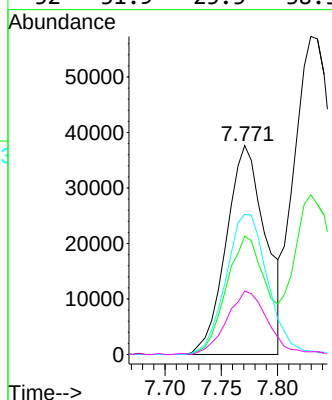
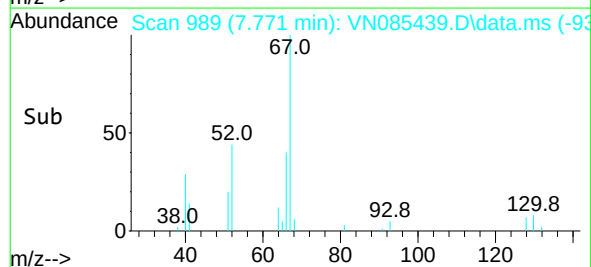
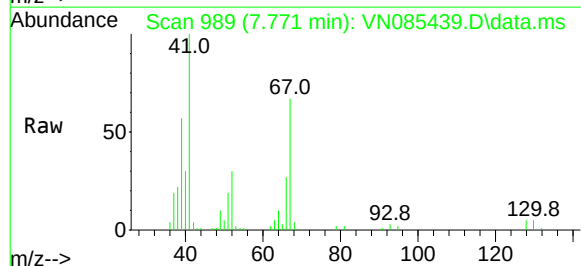
52 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 49.685 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085439.D

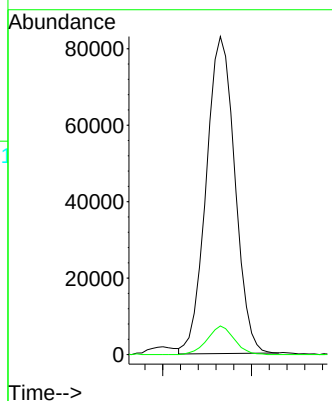
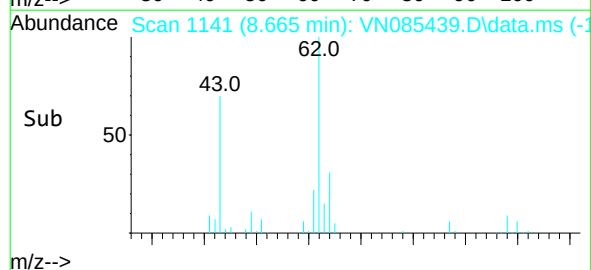
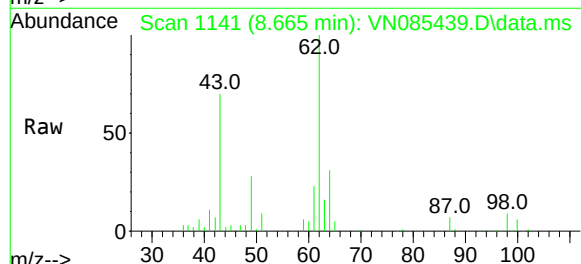
Acq: 14 Jan 2025 15:19

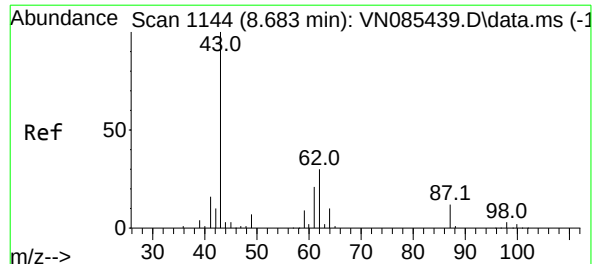
Tgt Ion: 62 Resp: 186065

Ion Ratio Lower Upper

62 100

98 8.5 0.0 17.0





#43

Isopropyl Acetate

Concen: 51.611 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

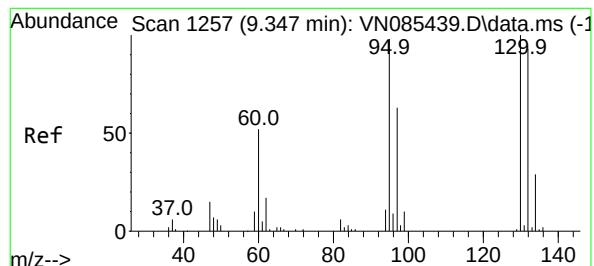
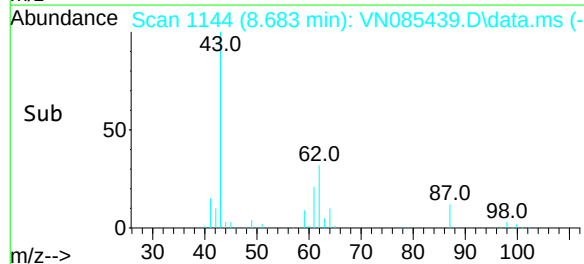
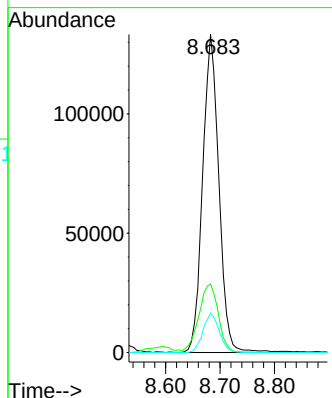
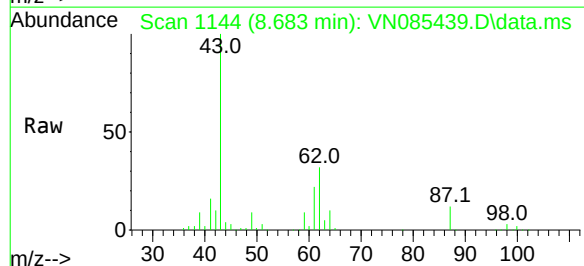
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	276228
Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.7	31.1
87	12.3	9.8	14.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 47.506 ug/l

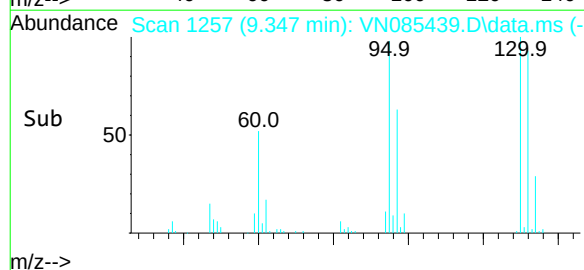
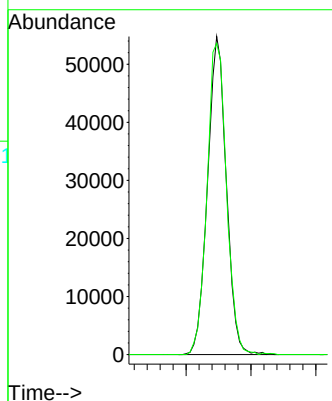
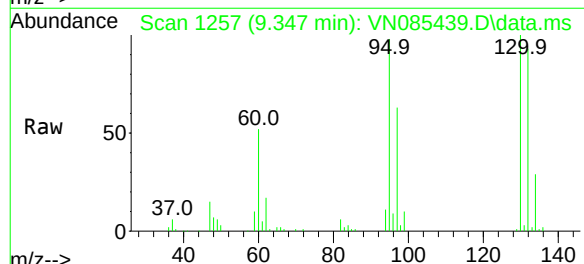
RT: 9.347 min Scan# 1257

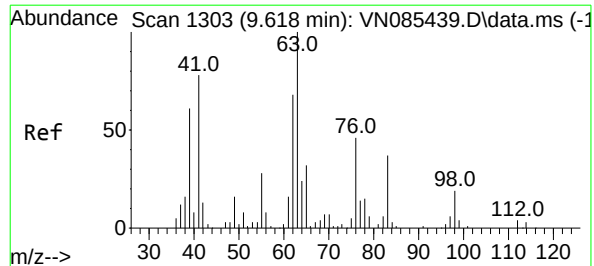
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	130	Resp:	109953
Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	195.8





#45

1,2-Dichloropropane

Concen: 49.644 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 126084

Ion Ratio Lower Upper

63 100

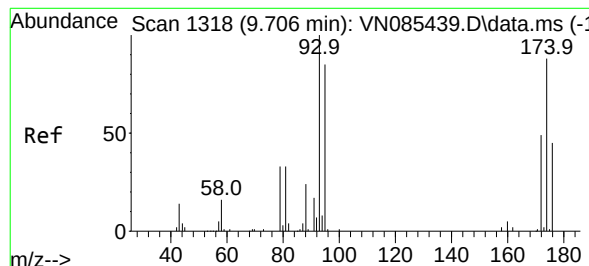
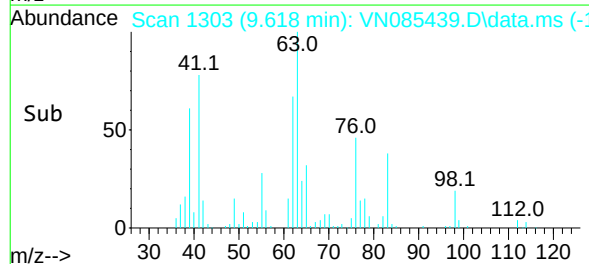
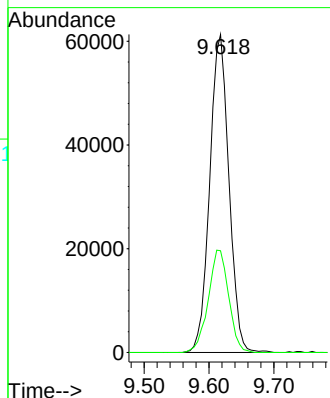
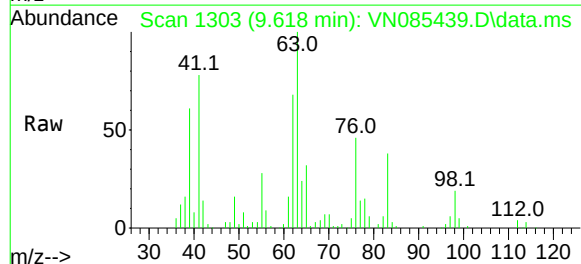
65 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 49.476 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

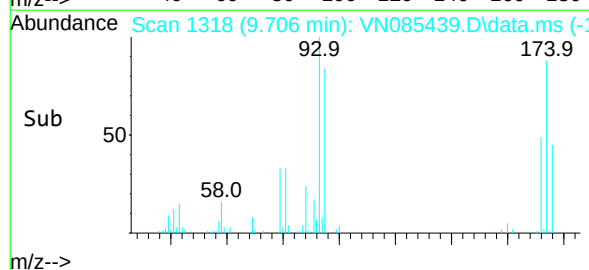
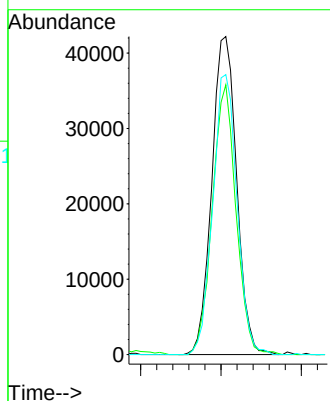
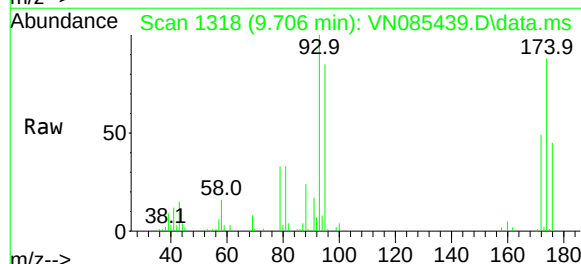
Tgt Ion: 93 Resp: 90670

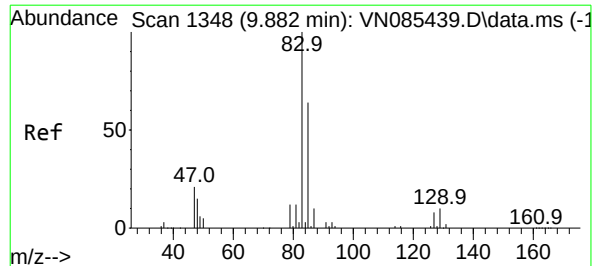
Ion Ratio Lower Upper

93 100

95 80.9 64.7 97.1

174 86.2 69.0 103.4





#47

Bromodichloromethane

Concen: 50.867 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

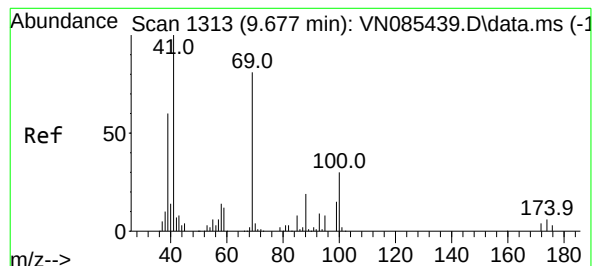
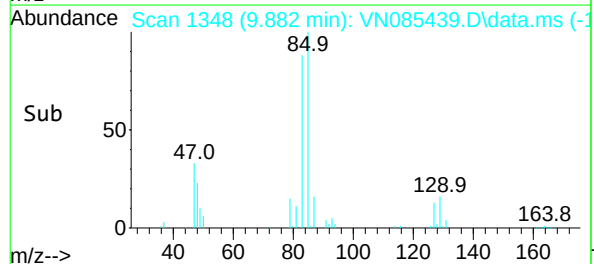
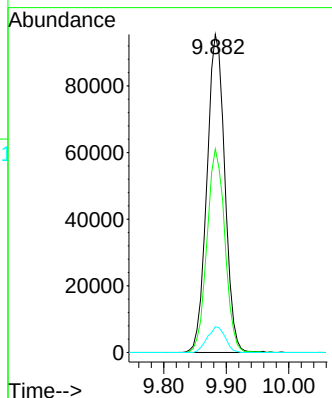
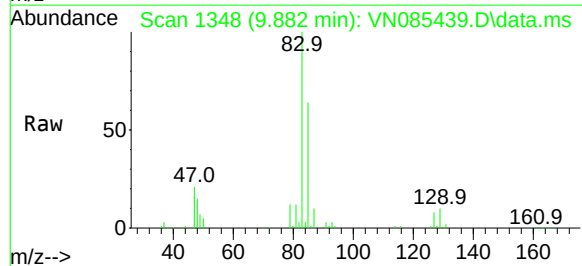
VSTDICCC050

Tgt Ion:	83	Resp:	189915
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8
127	8.1	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 55.385 ug/l

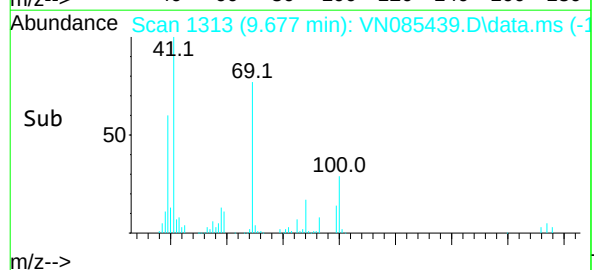
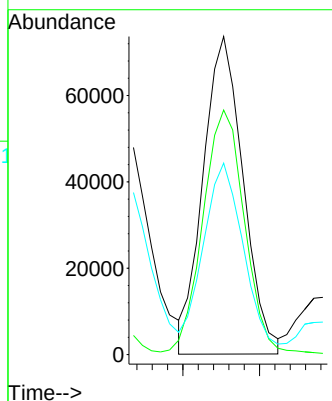
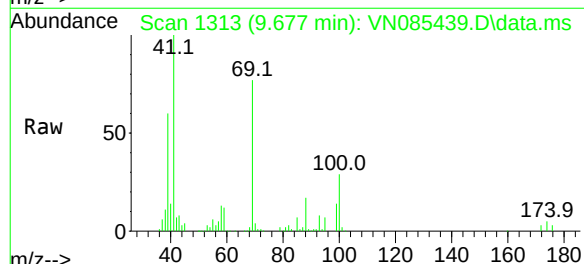
RT: 9.677 min Scan# 1313

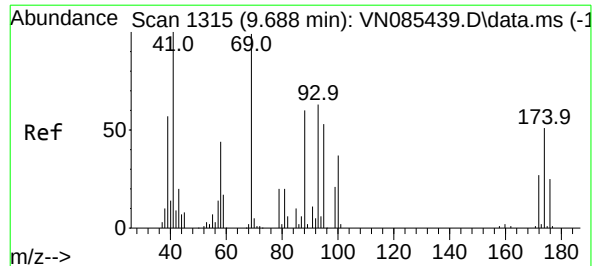
Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	41	Resp:	133399
Ion	Ratio	Lower	Upper
41	100		
69	80.9	64.7	97.1
39	61.3	49.0	73.6





#49

1,4-Dioxane

Concen: 1061.334 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 43048

Ion Ratio Lower Upper

88 100

43 33.2 26.6 39.8

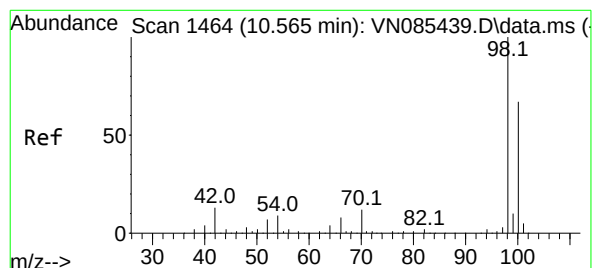
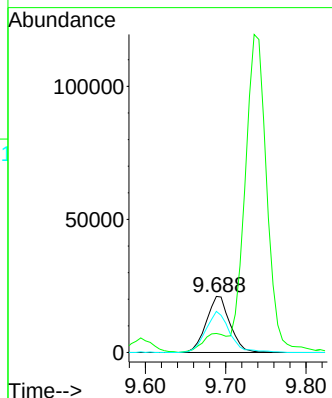
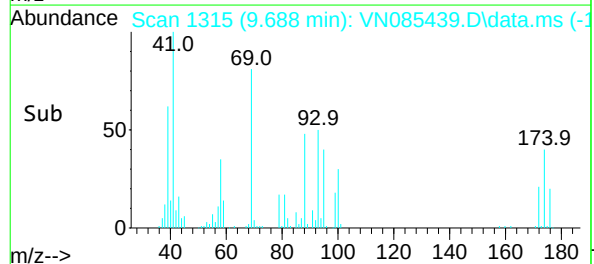
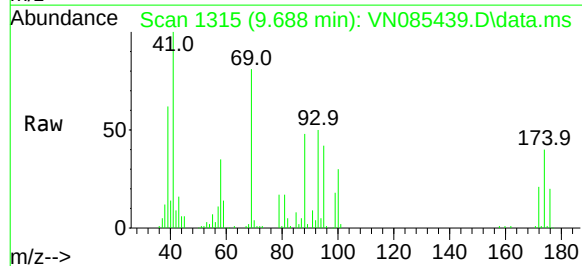
58 74.4 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 51.411 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085439.D

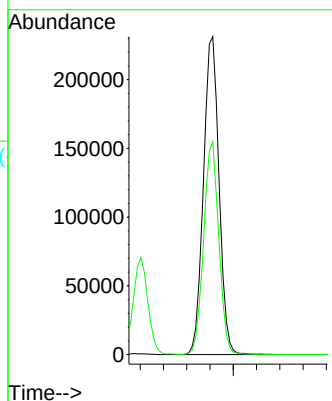
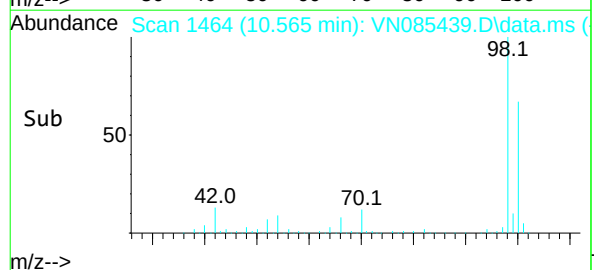
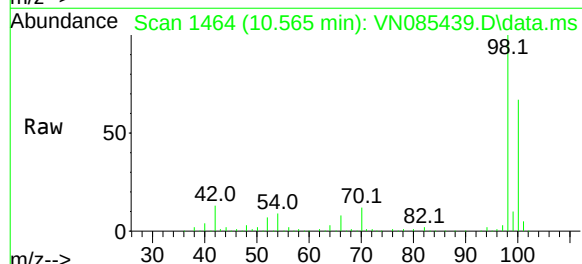
Acq: 14 Jan 2025 15:19

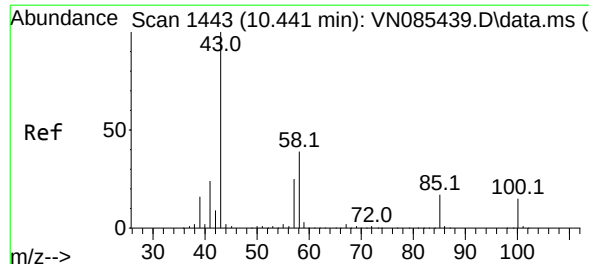
Tgt Ion: 98 Resp: 430698

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 269.403 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 836707

Ion Ratio Lower Upper

43 100

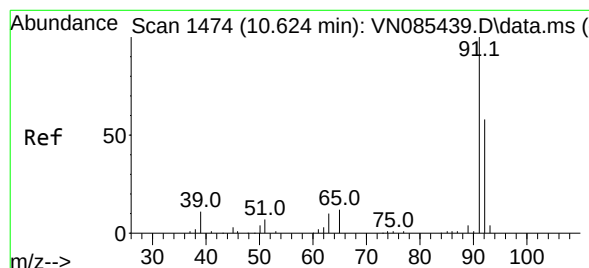
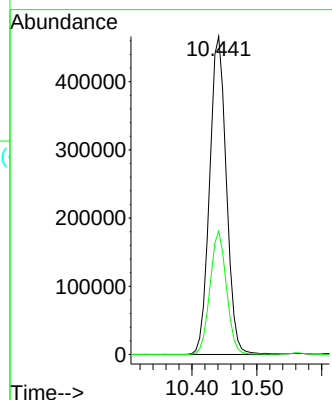
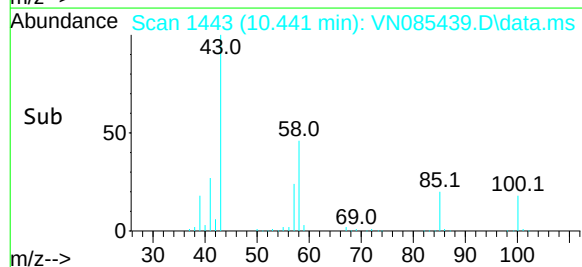
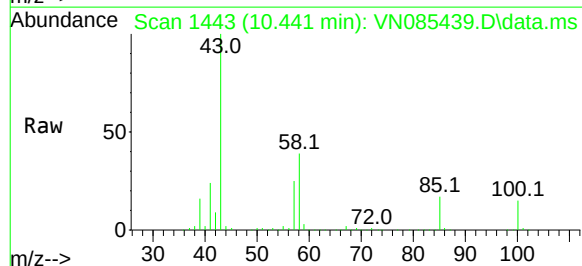
58 38.1 30.5 45.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#52

Toluene

Concen: 51.341 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. -0.000 min

Lab File: VN085439.D

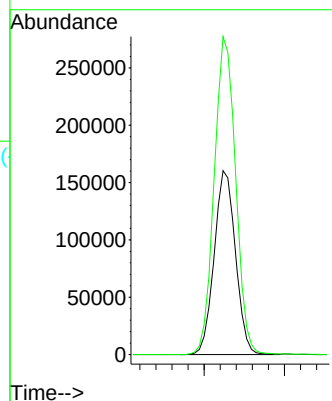
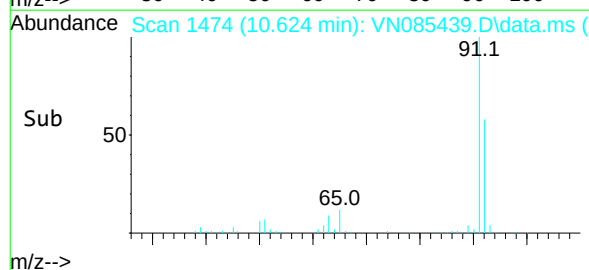
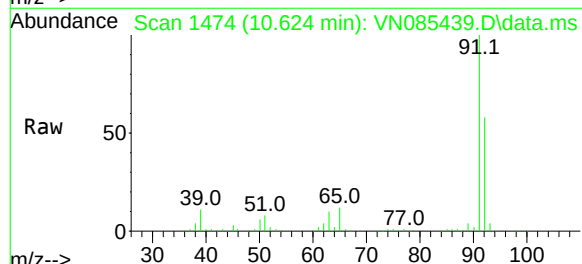
Acq: 14 Jan 2025 15:19

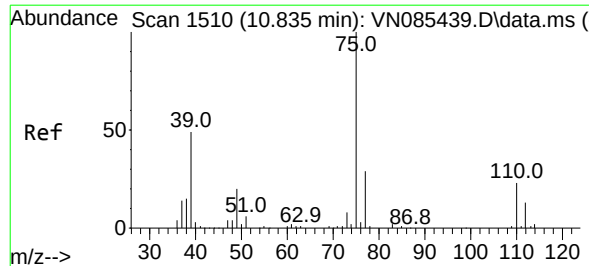
Tgt Ion: 92 Resp: 295792

Ion Ratio Lower Upper

92 100

91 174.0 139.2 208.8





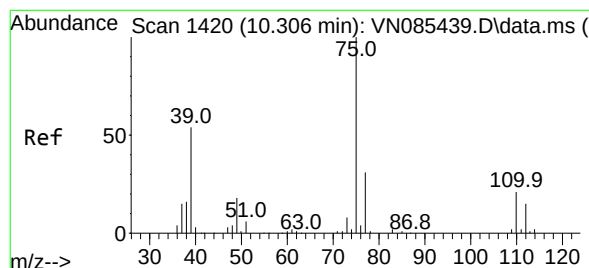
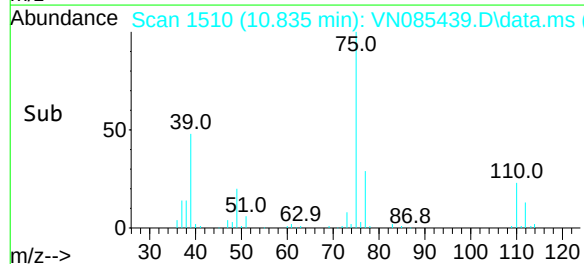
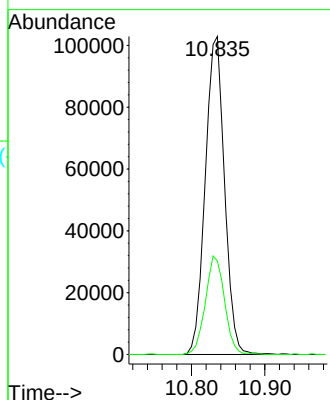
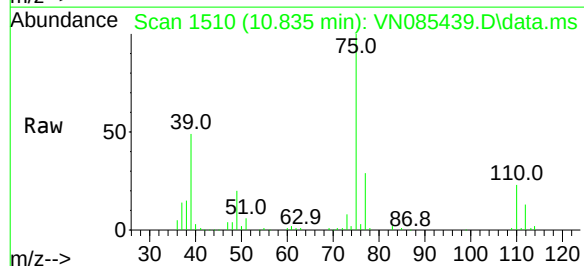
#53
t-1,3-Dichloropropene
Concen: 53.125 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 187439
Ion Ratio Lower Upper
75 100
77 29.4 23.5 35.3

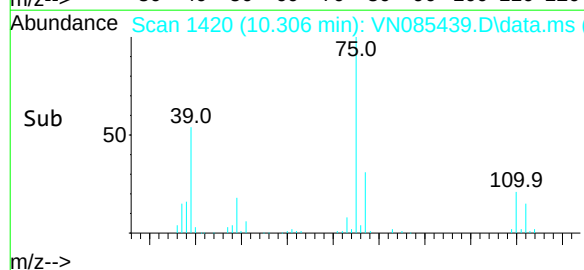
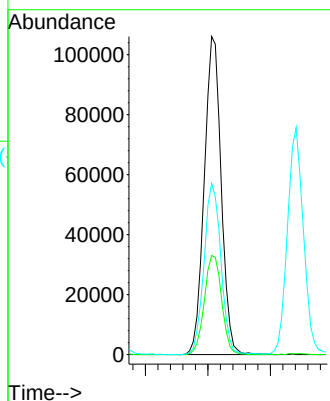
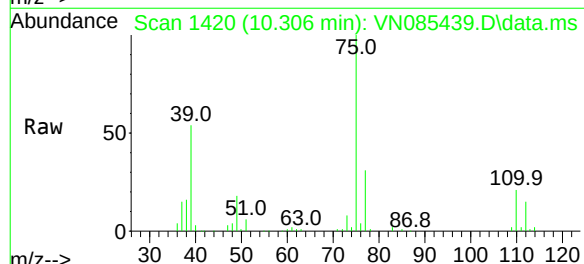
Manual Integrations
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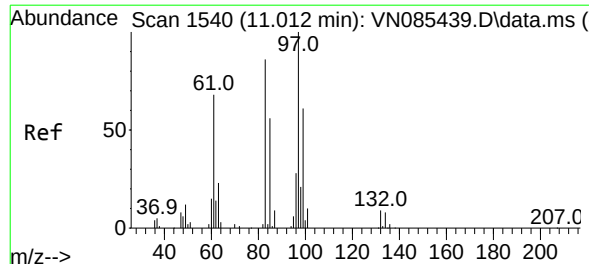
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#54
cis-1,3-Dichloropropene
Concen: 53.006 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 199771
Ion Ratio Lower Upper
75 100
77 31.2 25.0 37.4
39 53.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 50.641 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 115462

Ion Ratio Lower Upper

97 100

83 86.3 69.0 103.6

85 55.7 44.6 66.8

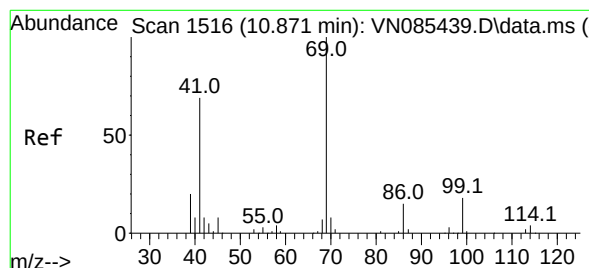
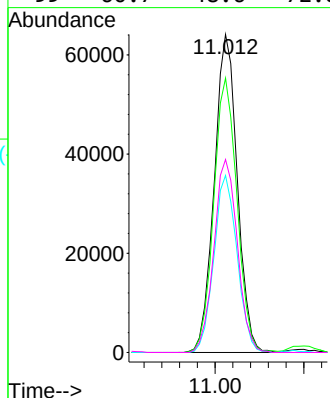
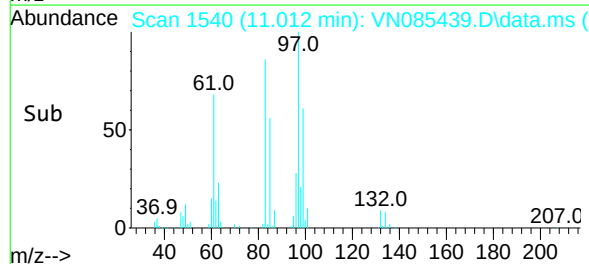
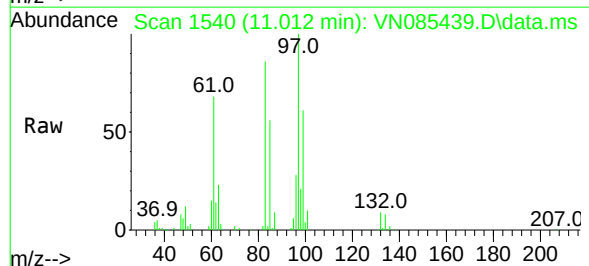
99 60.7 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 48.182 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

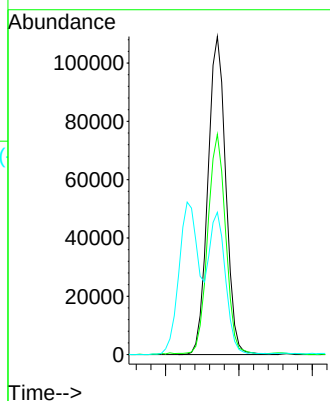
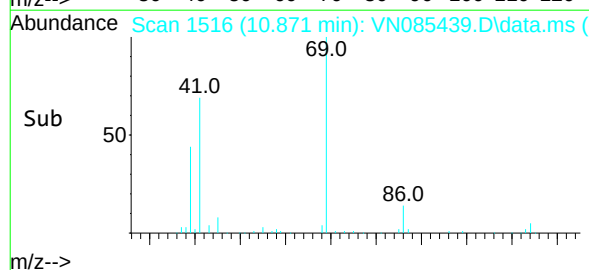
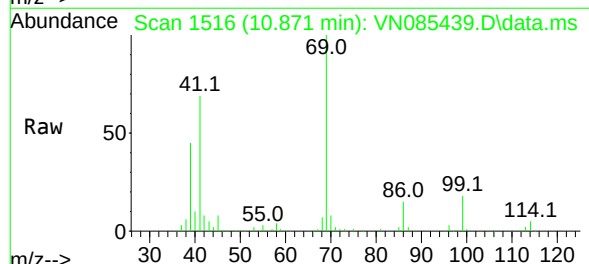
Tgt Ion: 69 Resp: 184775

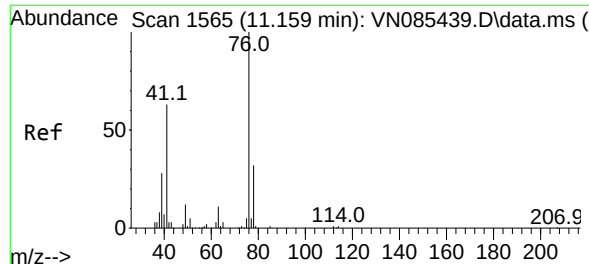
Ion Ratio Lower Upper

69 100

41 68.3 54.6 82.0

39 40.5 32.4 48.6





#57

1,3-Dichloropropane

Concen: 51.606 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 204596

Ion Ratio Lower Upper

76 100

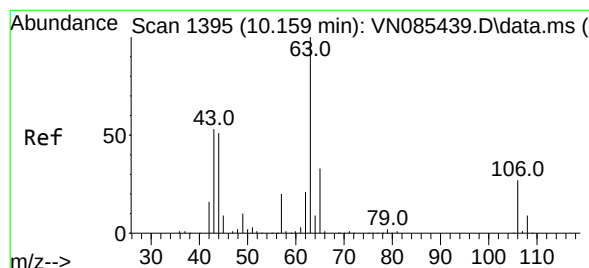
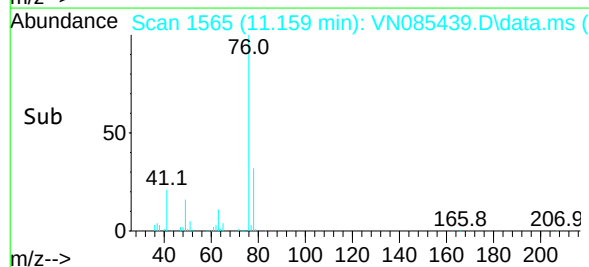
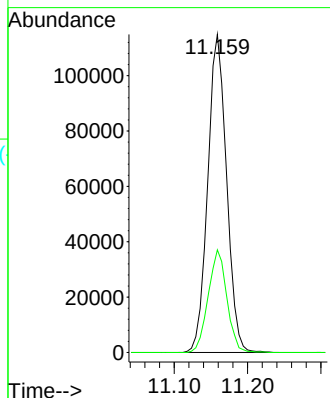
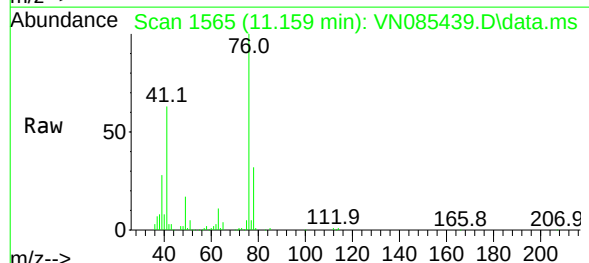
78 32.0 25.6 38.4

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 283.088 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085439.D

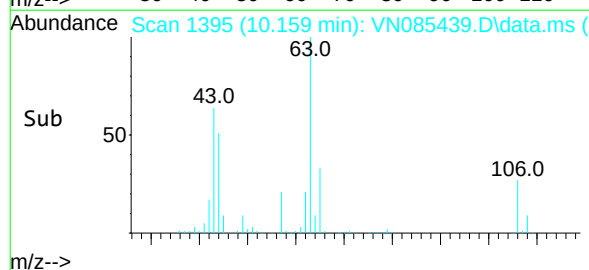
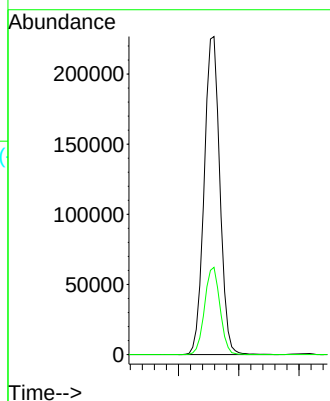
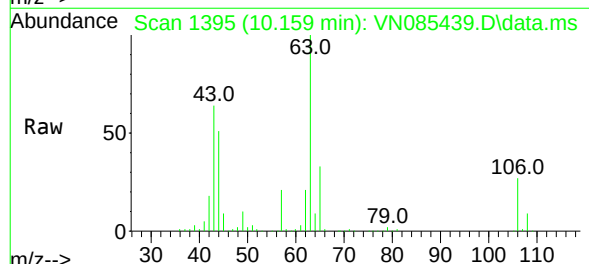
Acq: 14 Jan 2025 15:19

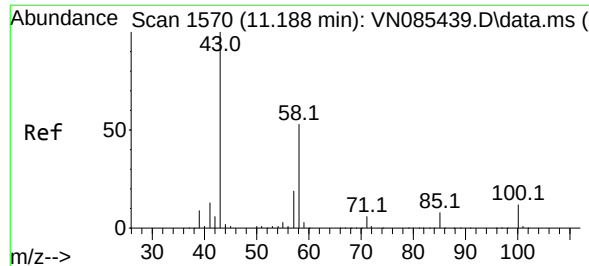
Tgt Ion: 63 Resp: 409594

Ion Ratio Lower Upper

63 100

106 27.0 21.6 32.4





#59

2-Hexanone

Concen: 277.643 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 606740

Ion Ratio Lower Upper

43 100

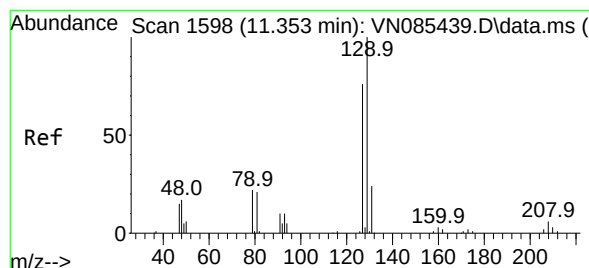
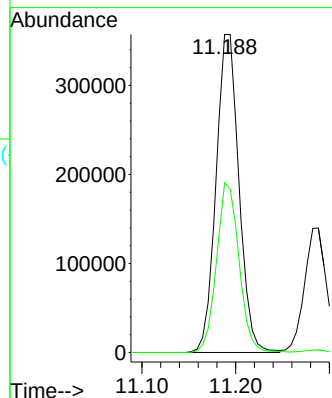
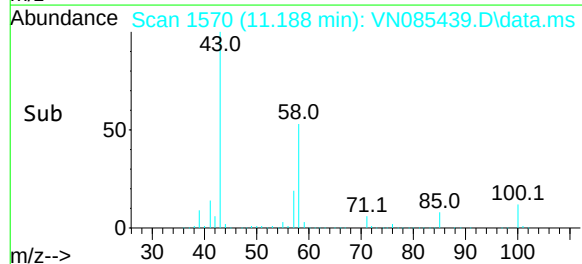
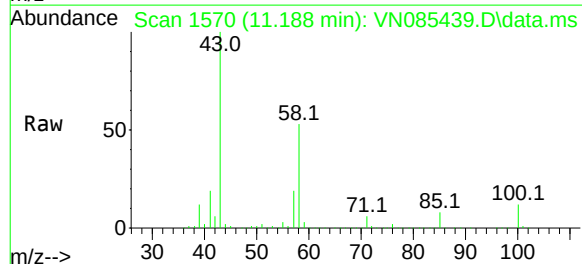
58 52.4 26.2 78.6

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 51.116 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085439.D

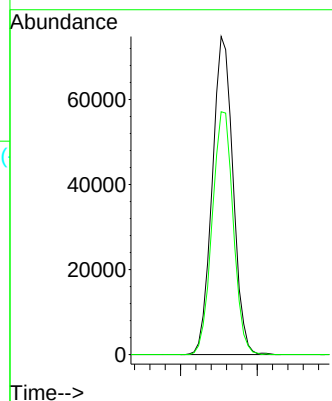
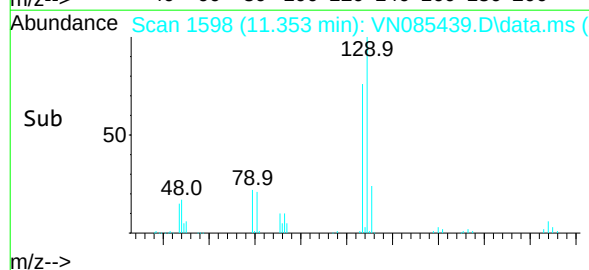
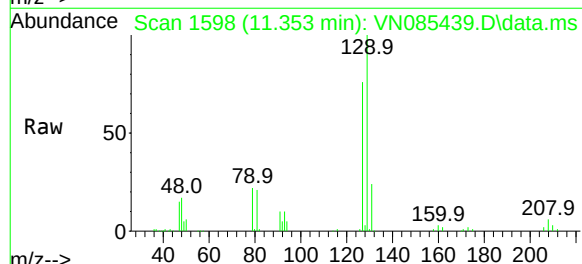
Acq: 14 Jan 2025 15:19

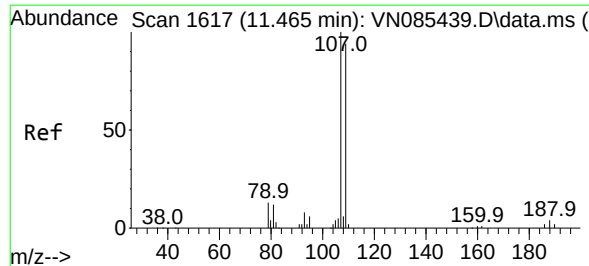
Tgt Ion:129 Resp: 140704

Ion Ratio Lower Upper

129 100

127 77.2 38.6 115.8





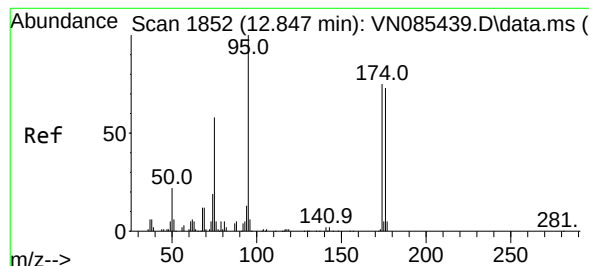
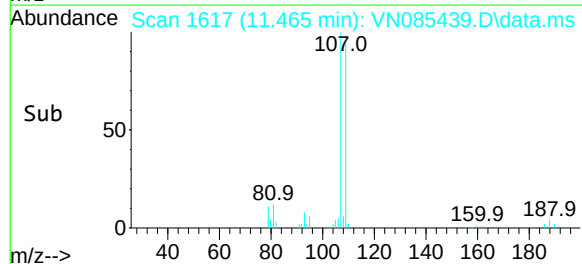
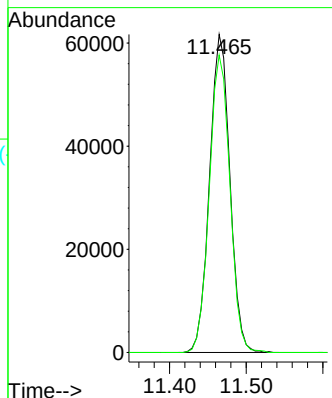
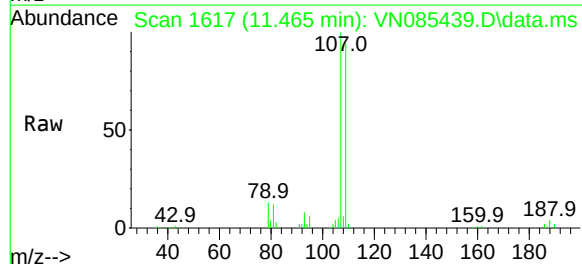
#61
1,2-Dibromoethane
Concen: 50.028 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 113541
Ion Ratio Lower Upper
107 100
109 94.9 75.9 113.9

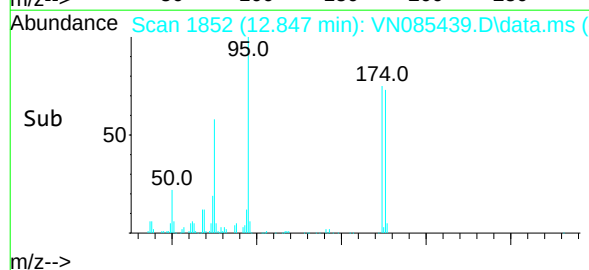
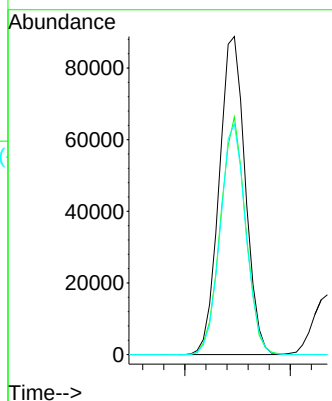
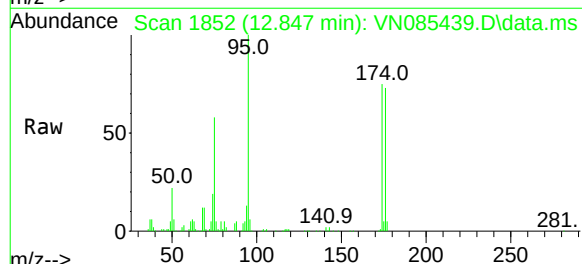
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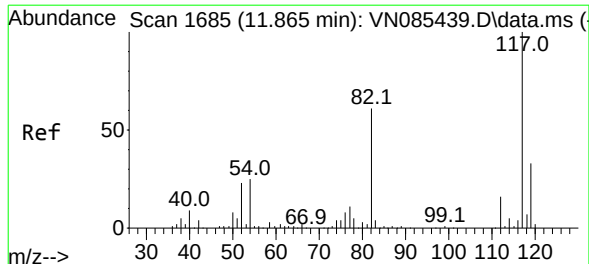
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 53.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 95 Resp: 152568
Ion Ratio Lower Upper
95 100
174 72.5 0.0 145.0
176 71.2 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 297366

Ion Ratio Lower Upper

117 100

82 60.7 48.6 72.8

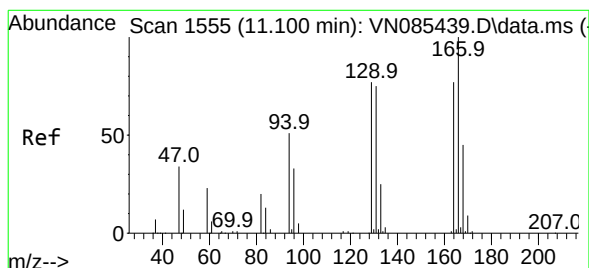
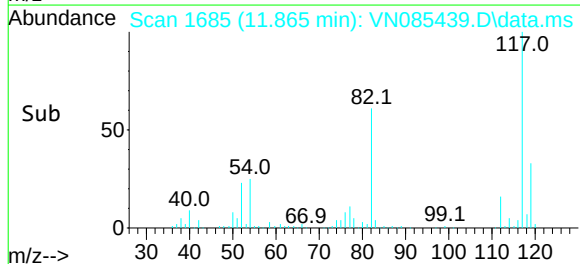
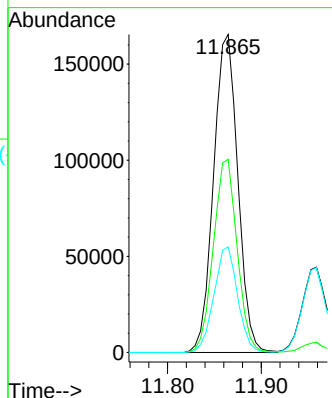
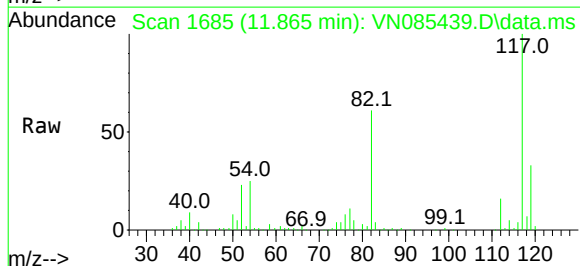
119 33.2 26.6 39.8

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 47.295 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:164 Resp: 95879

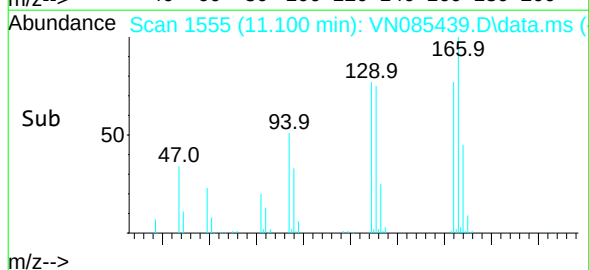
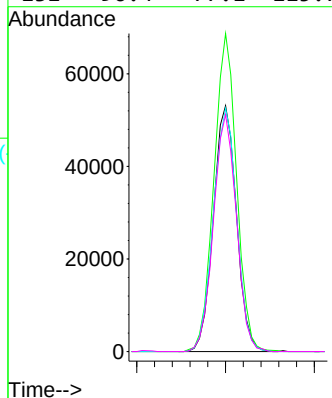
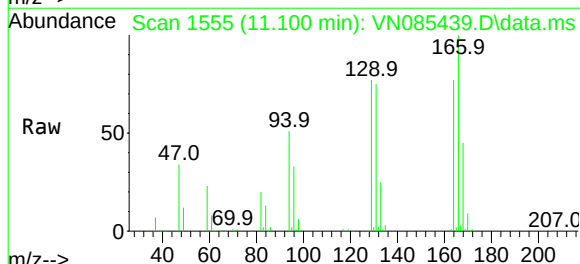
Ion Ratio Lower Upper

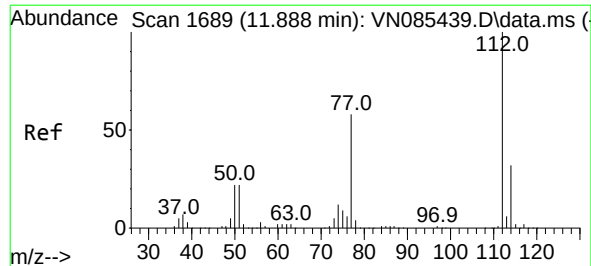
164 100

166 129.3 103.4 155.2

129 99.0 79.2 118.8

131 96.4 77.1 115.7





#65

Chlorobenzene

Concen: 49.121 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 319992

Ion Ratio Lower Upper

112 100

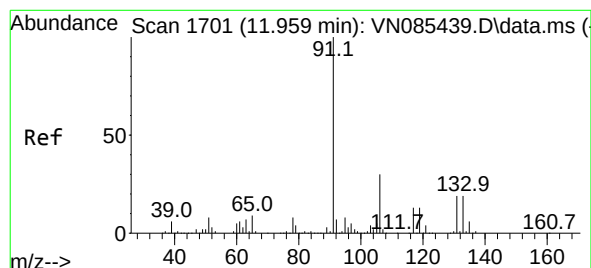
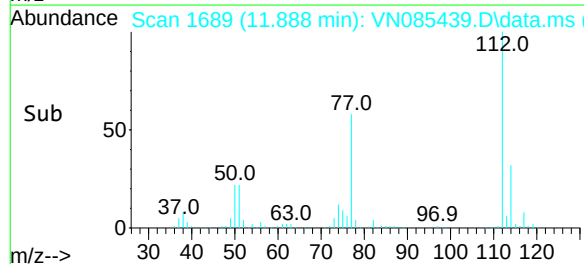
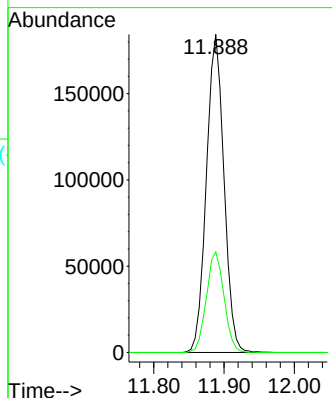
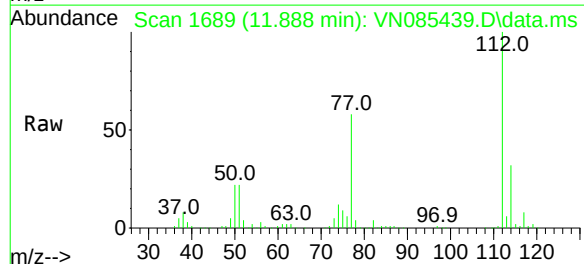
114 31.6 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 48.722 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

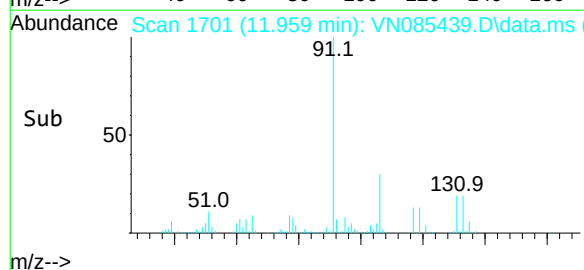
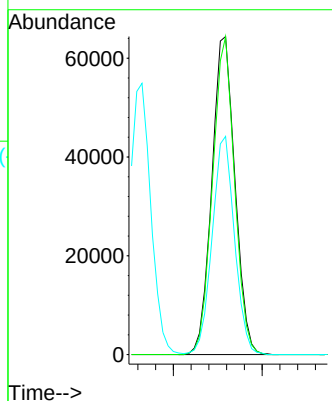
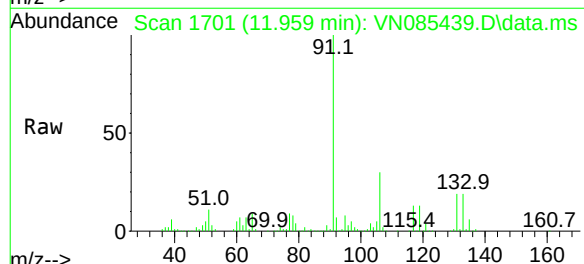
Tgt Ion:131 Resp: 116488

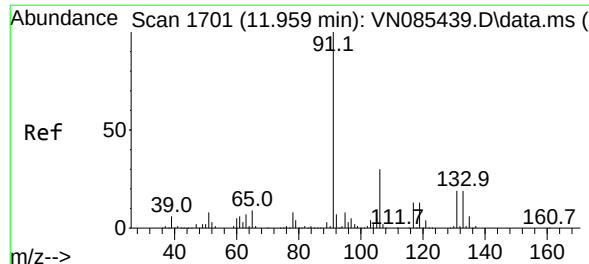
Ion Ratio Lower Upper

131 100

133 94.9 47.4 142.3

119 66.3 33.1 99.5





#67

Ethyl Benzene

Concen: 52.339 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 555322

Ion Ratio Lower Upper

91 100

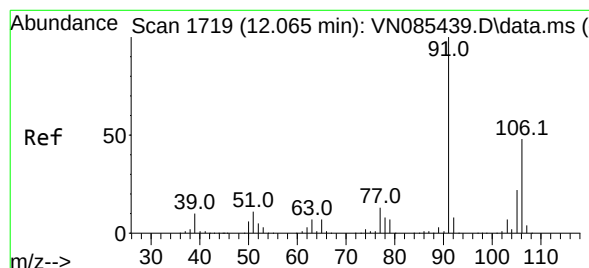
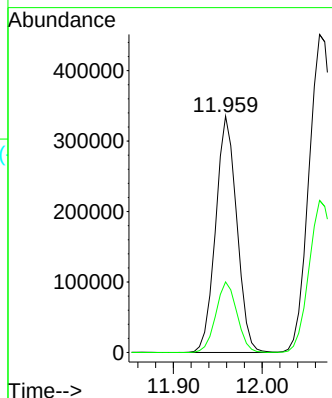
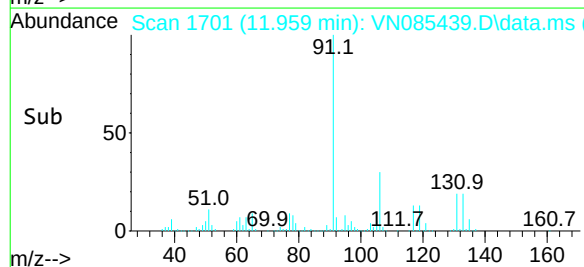
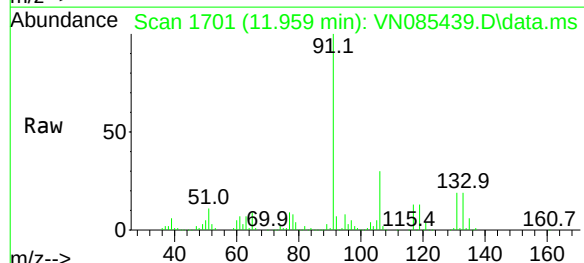
106 29.8 23.8 35.8

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 107.286 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085439.D

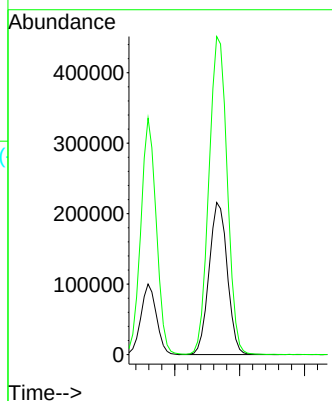
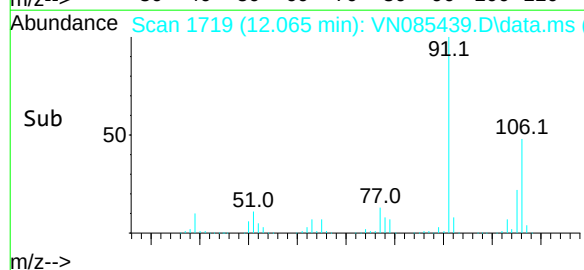
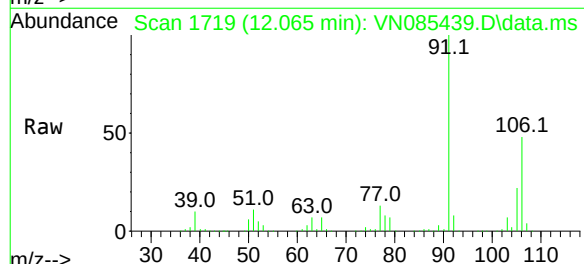
Acq: 14 Jan 2025 15:19

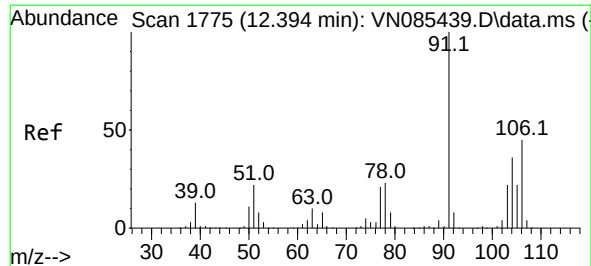
Tgt Ion:106 Resp: 420702

Ion Ratio Lower Upper

106 100

91 209.6 167.7 251.5





#69

o-Xylene

Concen: 54.062 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 202597

Ion Ratio Lower Upper

106 100

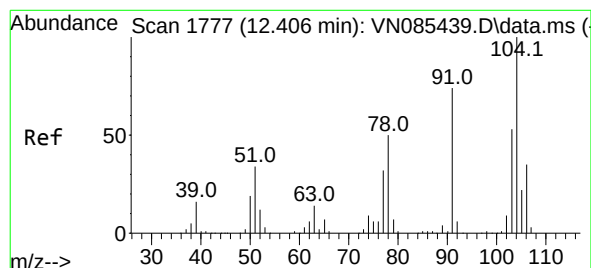
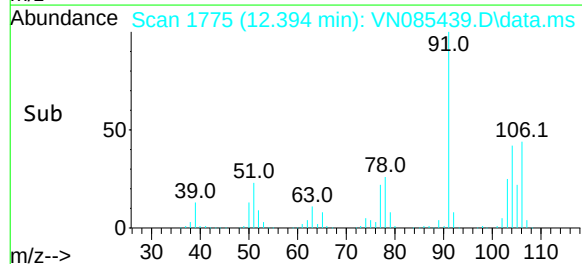
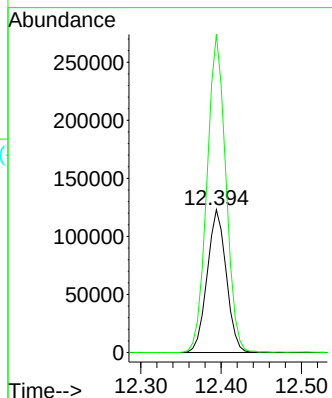
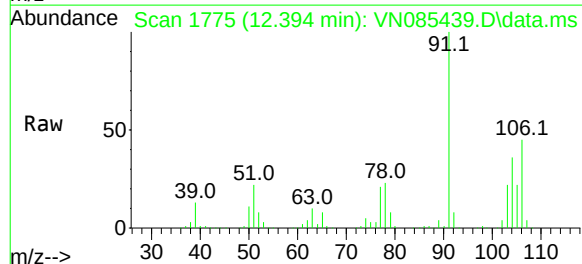
91 220.8 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 56.227 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

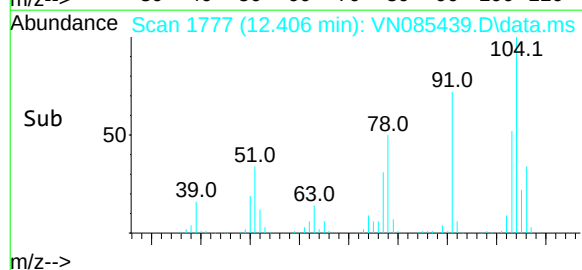
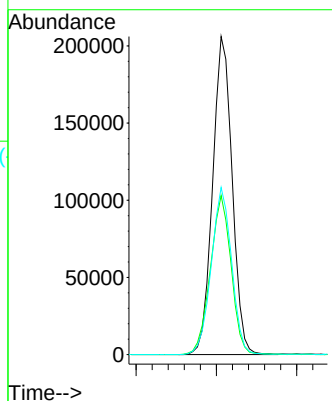
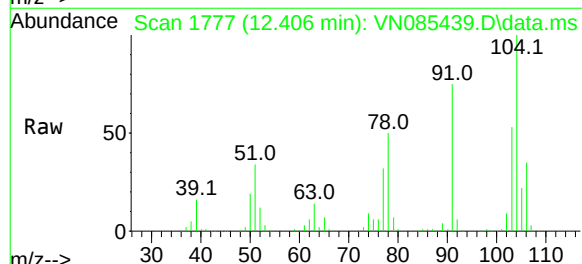
Tgt Ion:104 Resp: 348720

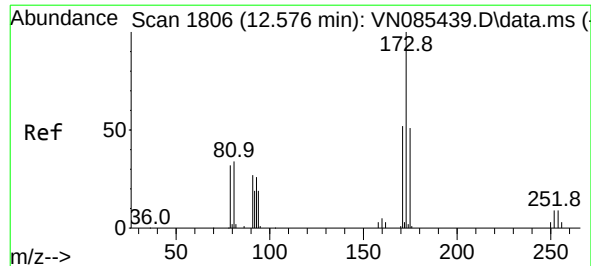
Ion Ratio Lower Upper

104 100

78 53.1 42.5 63.7

103 54.8 43.8 65.8





#71

Bromoform

Concen: 53.993 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

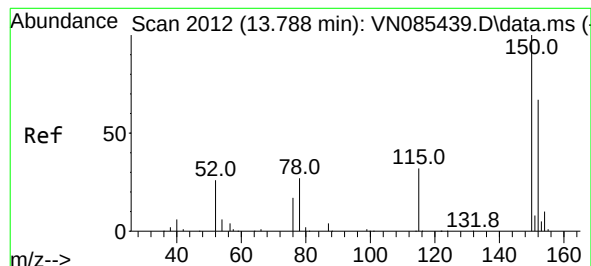
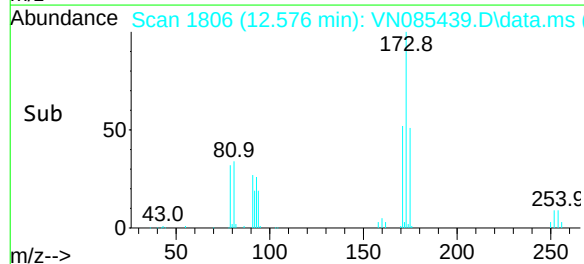
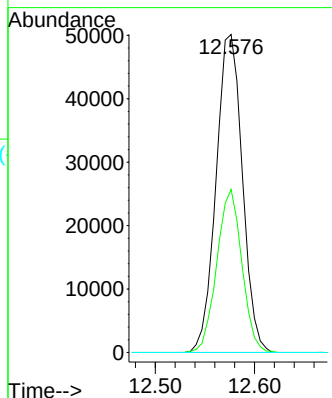
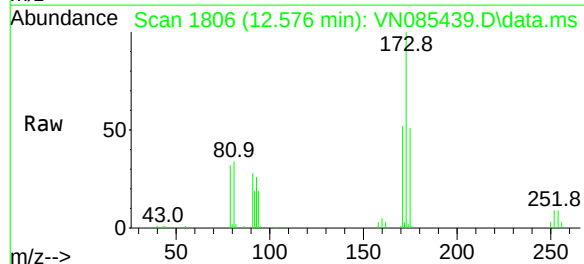
ClientSampleId :

VSTDICCC050

Tgt Ion:	173	Resp:	92366
Ion Ratio	Lower	Upper	
173	100		
175	48.8	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

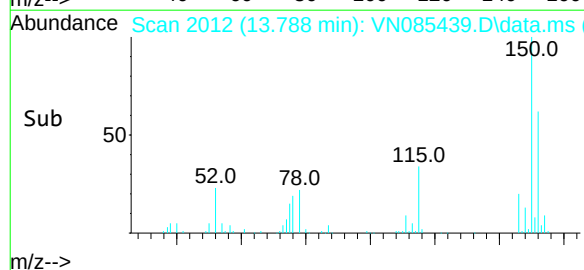
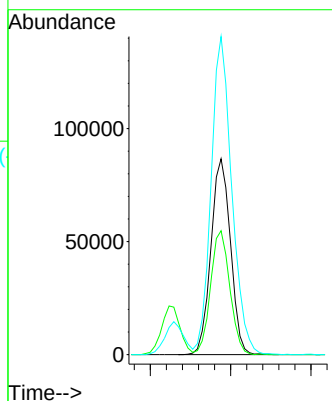
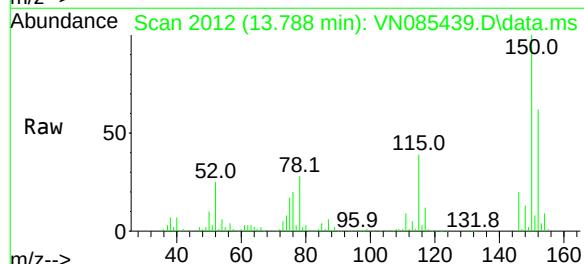
RT: 13.788 min Scan# 2012

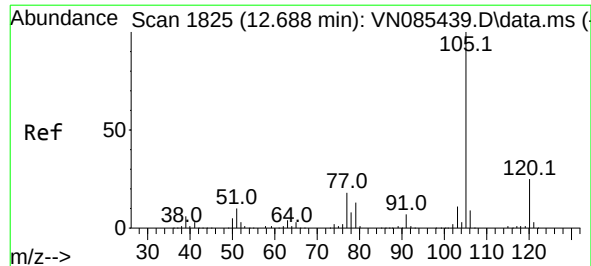
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	152	Resp:	146624
Ion Ratio	Lower	Upper	
152	100		
115	62.2	31.1	93.3
150	171.8	0.0	343.6





#73

Isopropylbenzene

Concen: 51.094 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 505619

Ion Ratio Lower Upper

105 100

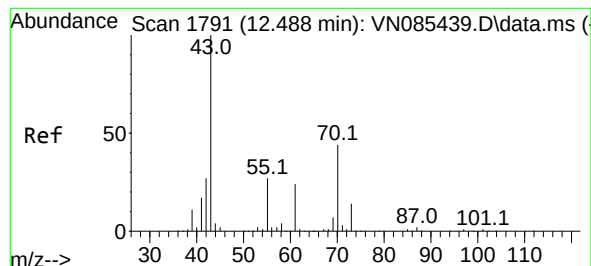
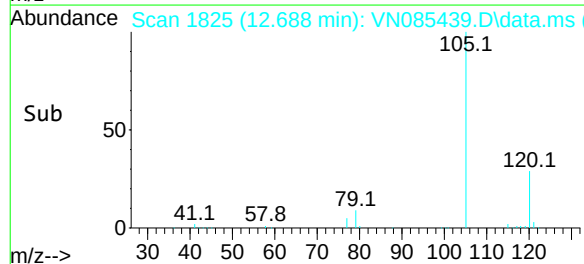
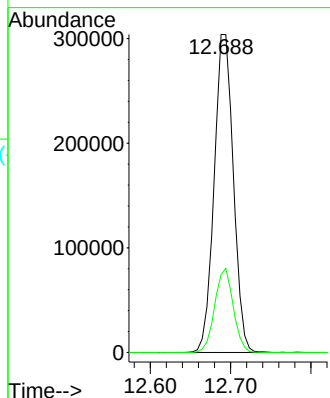
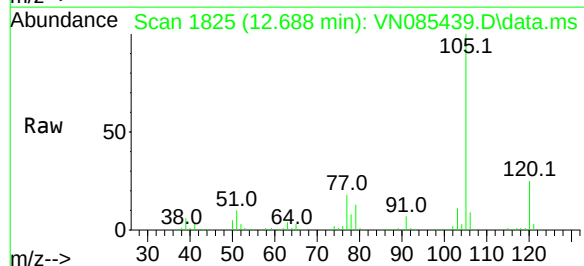
120 25.5 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 53.478 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 237870

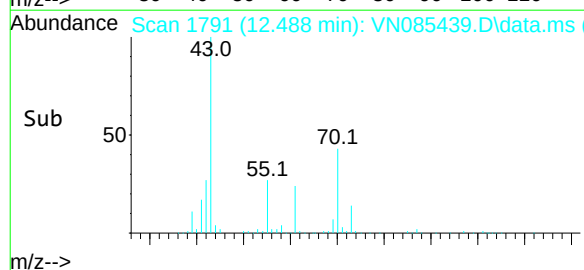
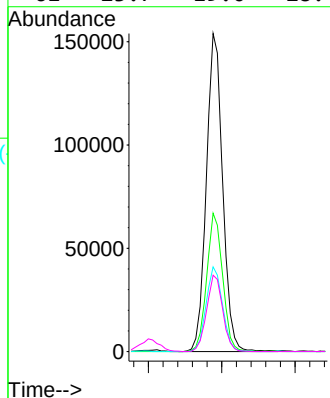
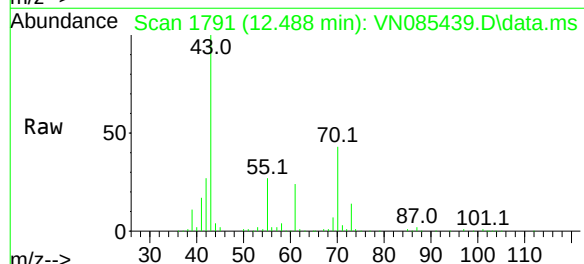
Ion Ratio Lower Upper

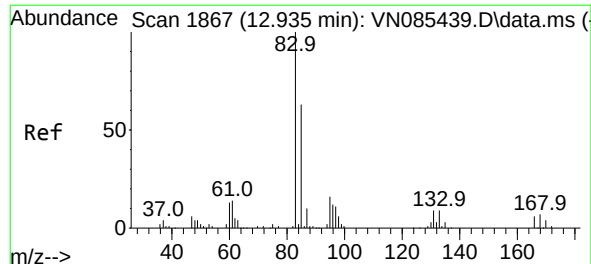
43 100

70 42.5 34.0 51.0

55 26.8 21.4 32.2

61 23.7 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 48.019 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

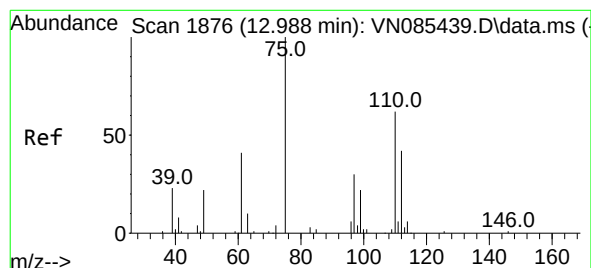
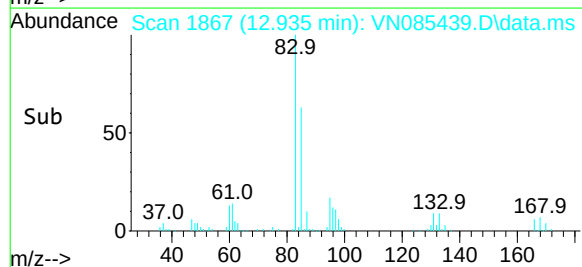
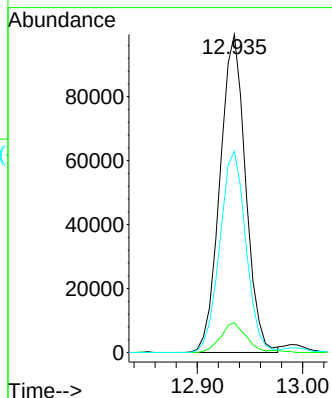
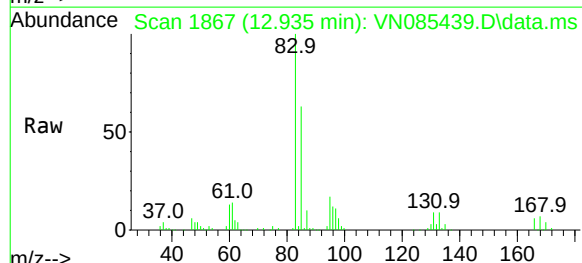
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	167856
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.8	14.4
85	64.4	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 43.982 ug/l m

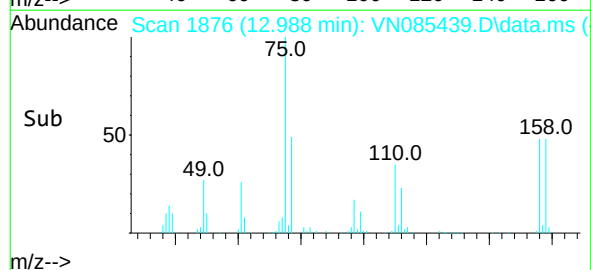
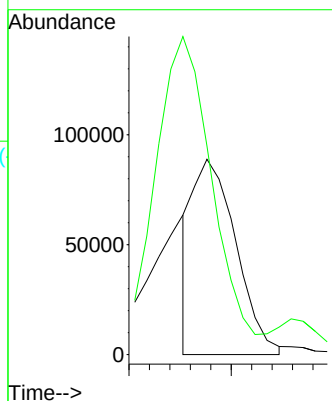
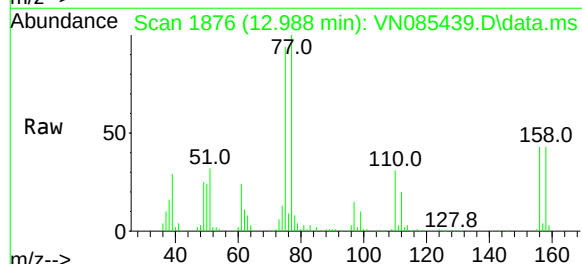
RT: 12.988 min Scan# 1876

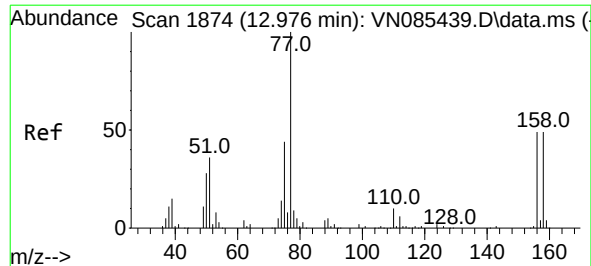
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	75	Resp:	130866
Ion Ratio	Lower	Upper	
75	100		
77	219.5	109.7	329.2





#77

Bromobenzene

Concen: 48.657 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

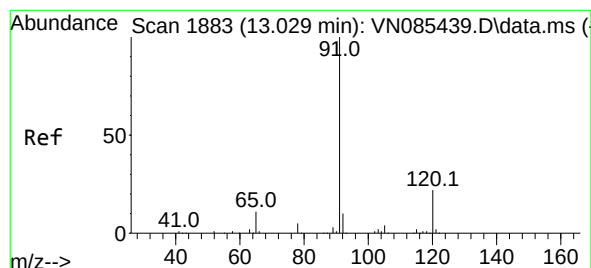
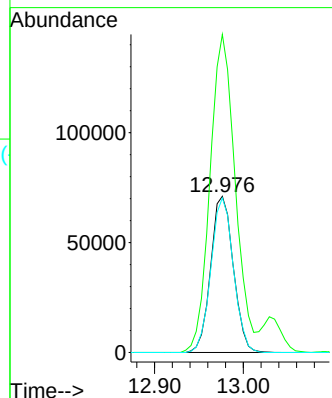
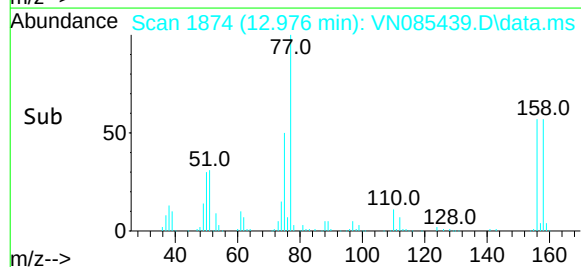
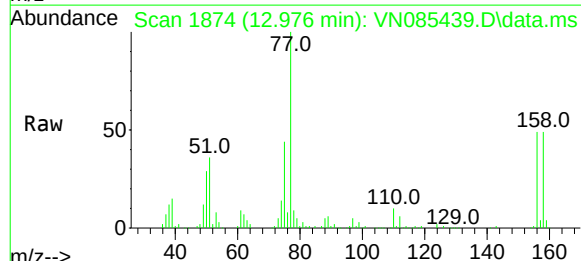
ClientSampleId :

VSTDICCC050

Tgt Ion:	156	Resp:	125800
Ion Ratio	Lower	Upper	
156	100		
77	228.3	114.1	342.4
158	97.9	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 51.986 ug/l

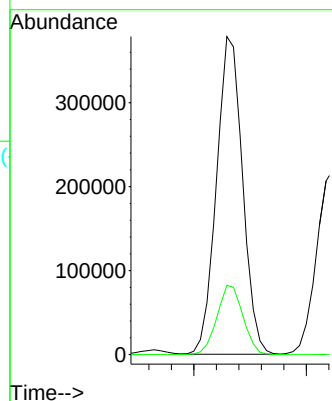
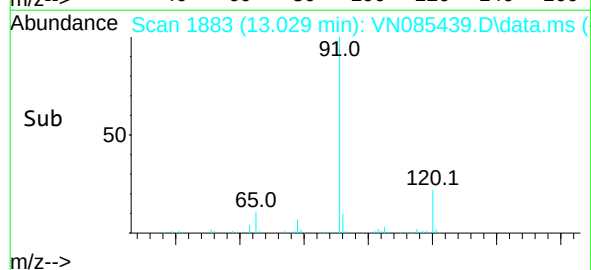
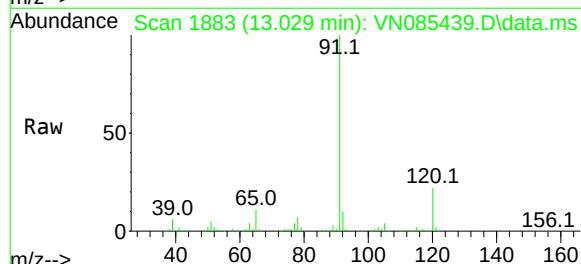
RT: 13.029 min Scan# 1883

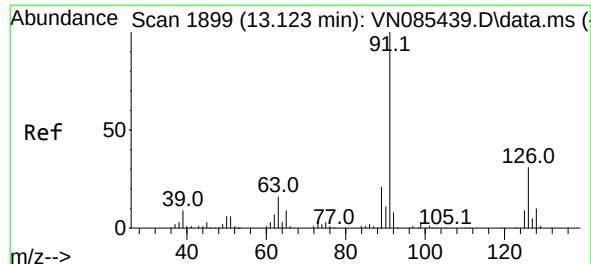
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	91	Resp:	609022
Ion Ratio	Lower	Upper	
91	100		
120	21.7	10.9	32.6





#79

2-Chlorotoluene

Concen: 49.985 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 378981

Ion Ratio Lower Upper

91 100

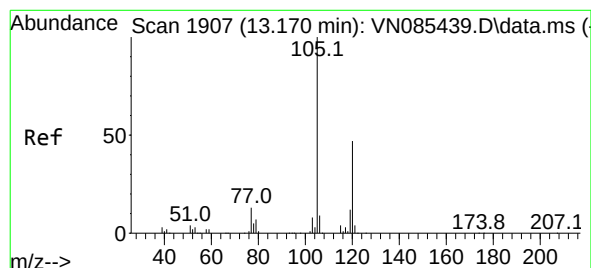
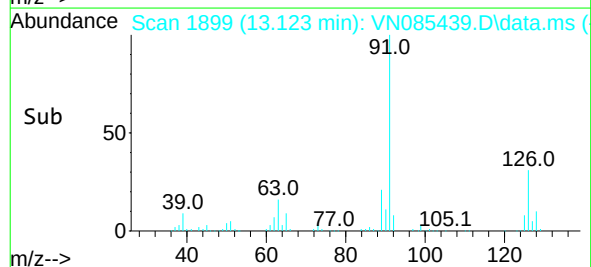
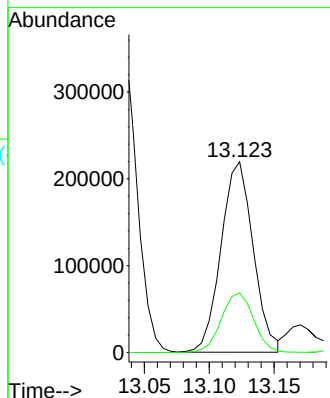
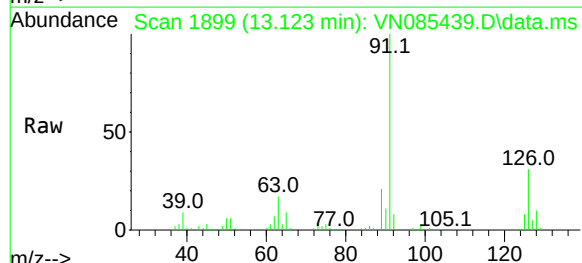
126 31.4 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 52.730 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085439.D

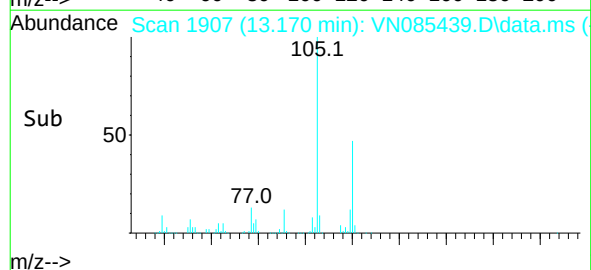
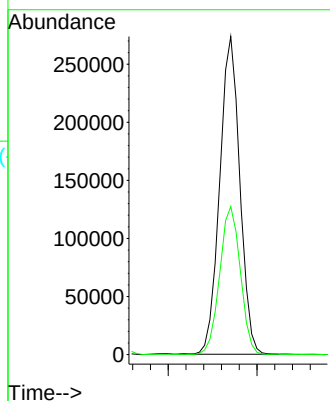
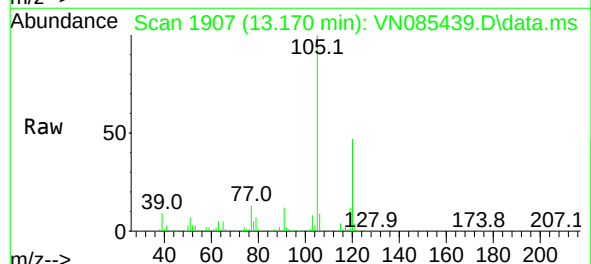
Acq: 14 Jan 2025 15:19

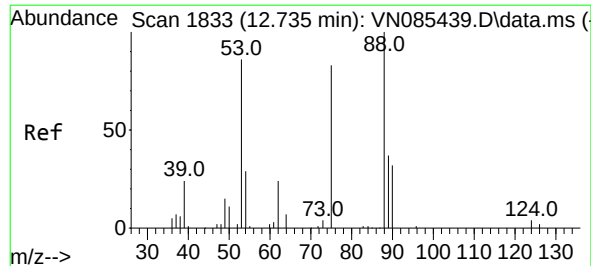
Tgt Ion:105 Resp: 431021

Ion Ratio Lower Upper

105 100

120 47.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 51.914 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

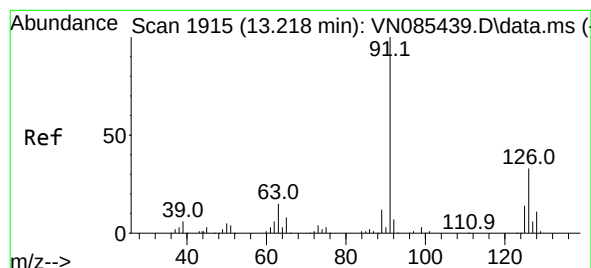
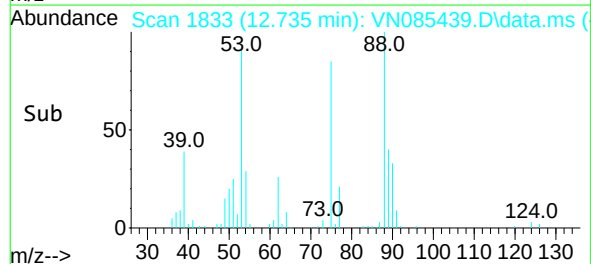
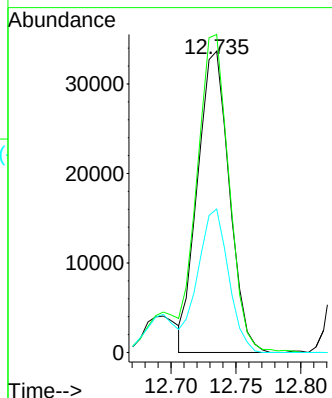
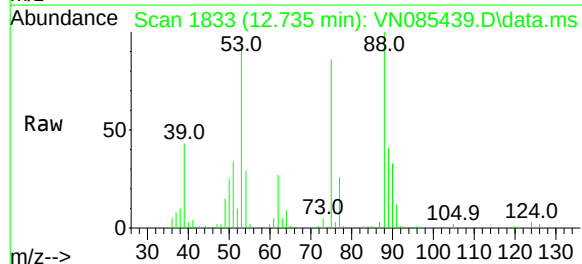
ClientSampleId :

VSTDICCC050

Tgt Ion:	75	Resp:	57184
Ion	Ratio	Lower	Upper
75	100		
53	119.5	95.6	143.4
89	46.3	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 50.273 ug/l

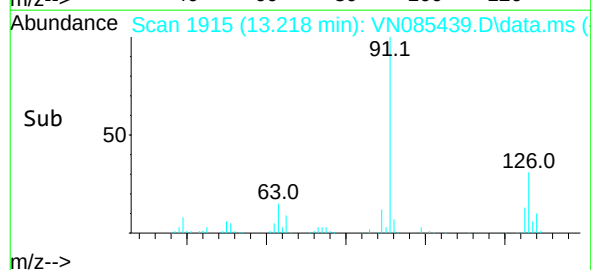
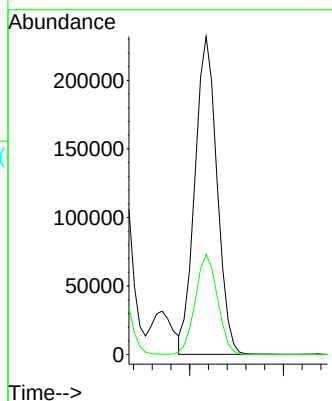
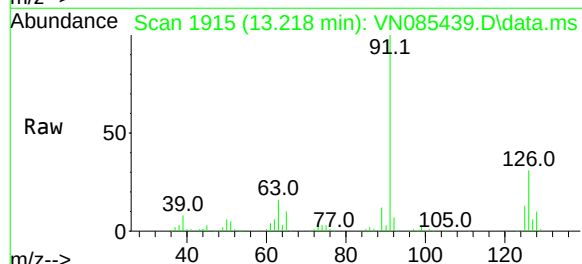
RT: 13.218 min Scan# 1915

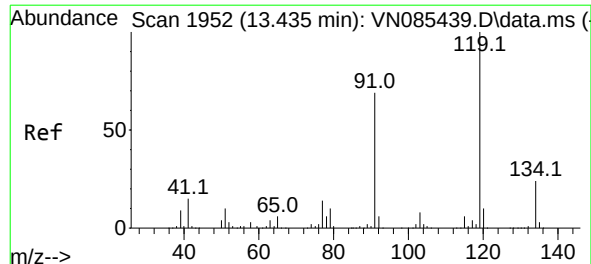
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	91	Resp:	379524
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7





#83

tert-Butylbenzene

Concen: 52.090 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 357563

Ion Ratio Lower Upper

119 100

91 70.2 35.1 105.3

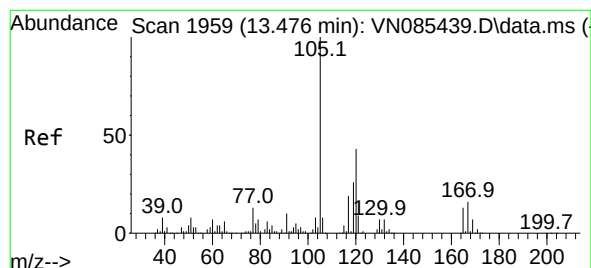
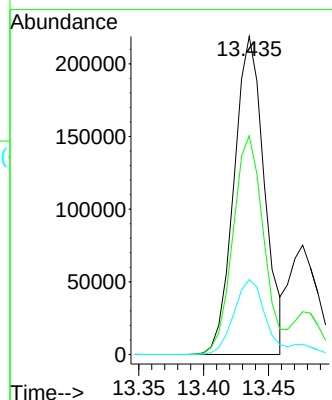
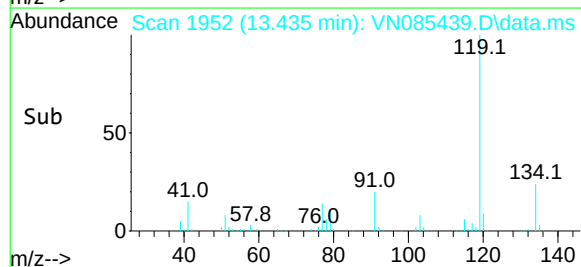
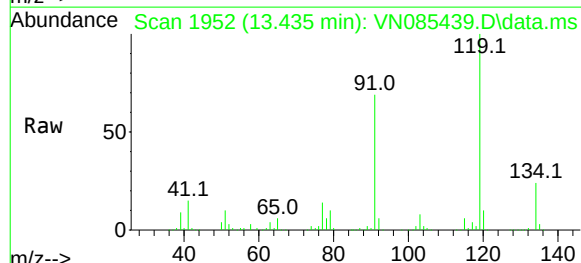
134 24.1 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 54.275 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085439.D

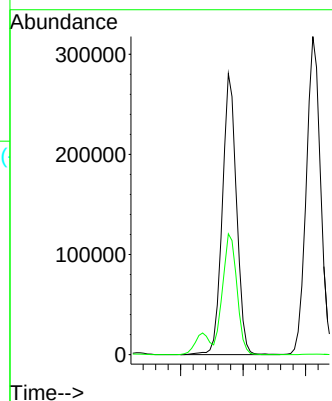
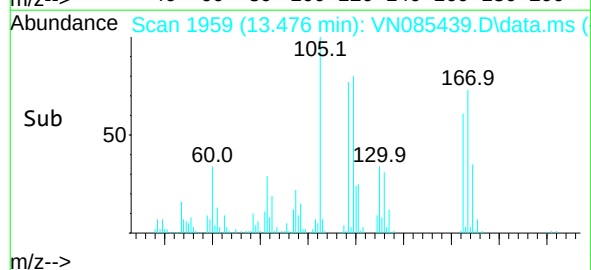
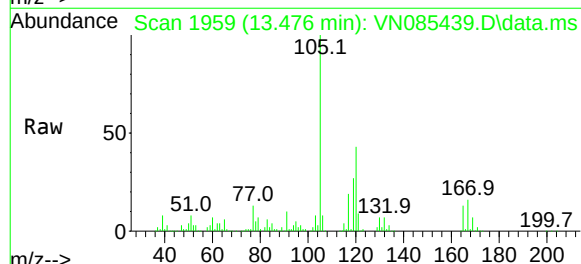
Acq: 14 Jan 2025 15:19

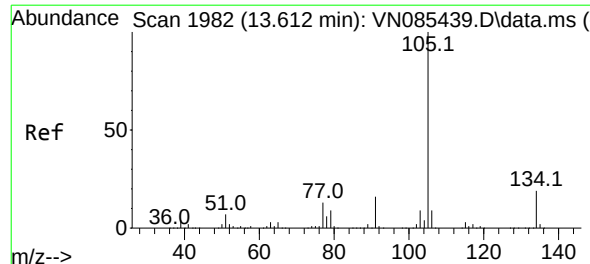
Tgt Ion:105 Resp: 442175

Ion Ratio Lower Upper

105 100

120 43.3 21.6 65.0





#85

sec-Butylbenzene

Concen: 52.719 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 501561

Ion Ratio Lower Upper

105 100

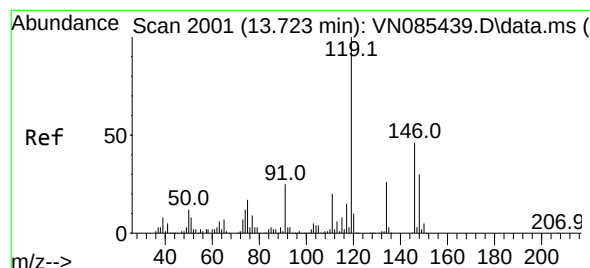
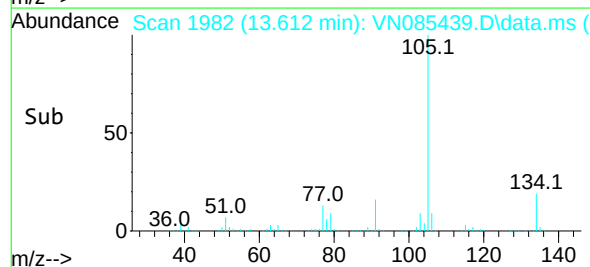
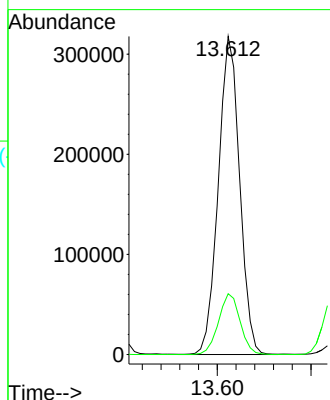
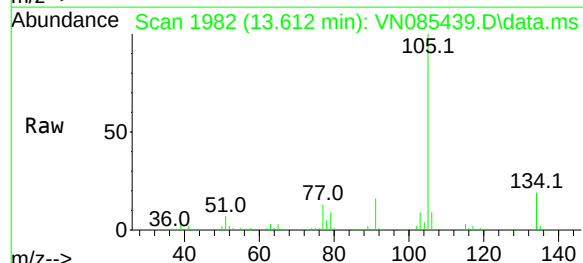
134 19.3 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 49.240 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

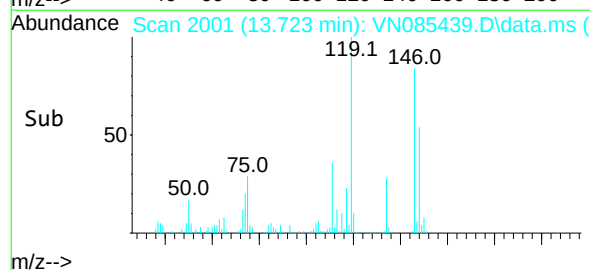
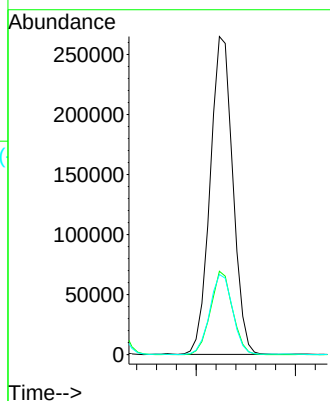
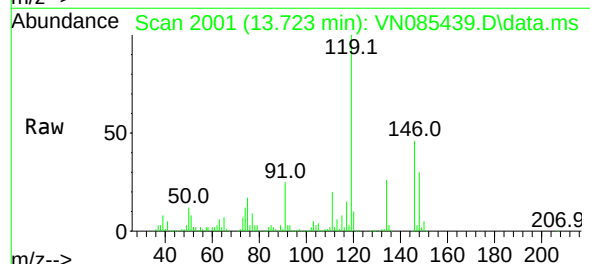
Tgt Ion:119 Resp: 421052

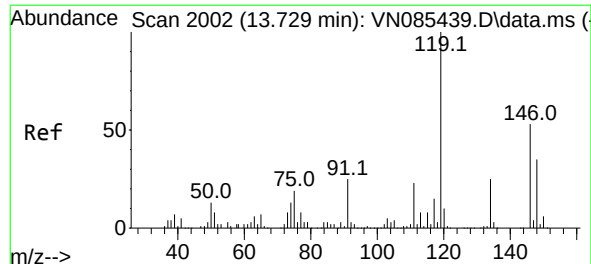
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 25.4 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 48.204 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

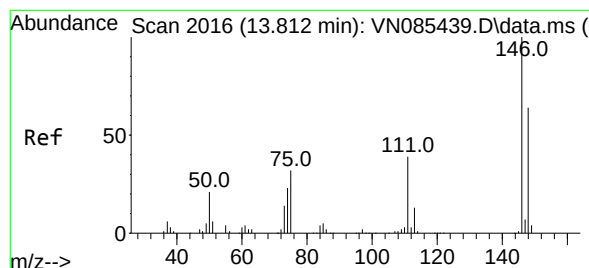
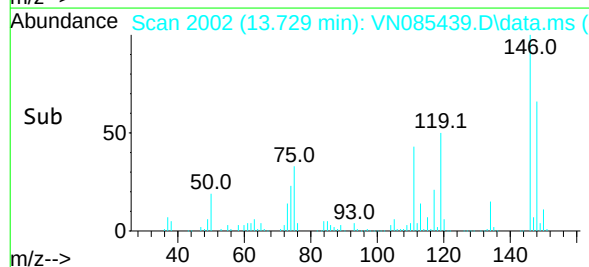
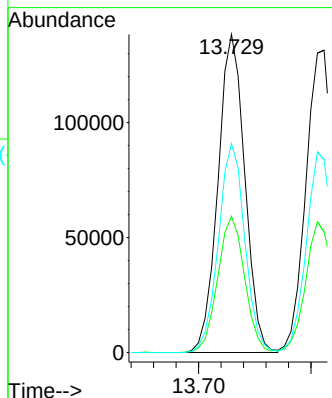
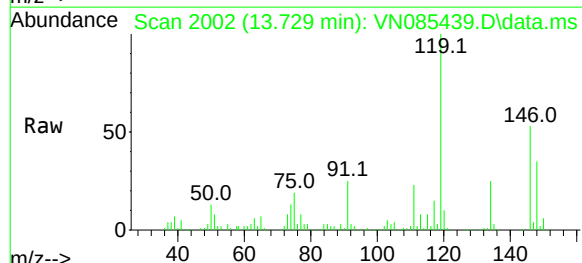
VSTDICCC050

Tgt Ion:	146	Resp:	229518
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.6	32.3	96.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 46.416 ug/l

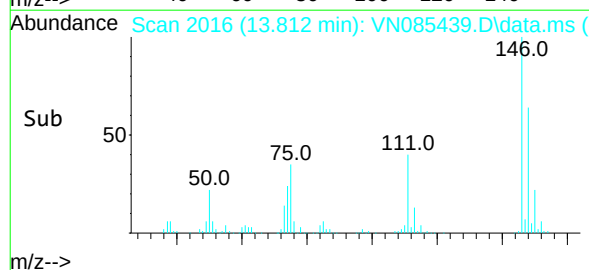
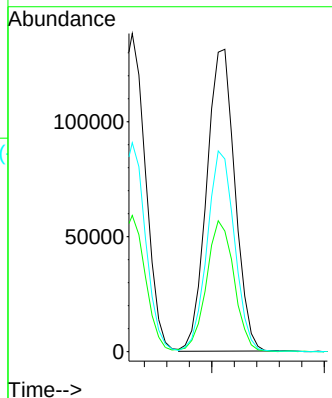
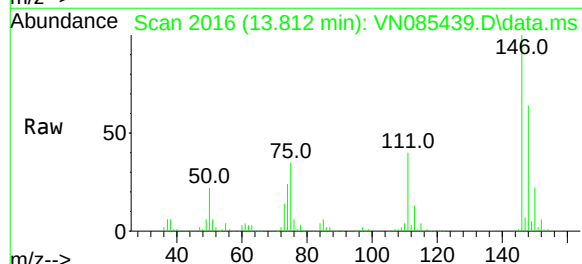
RT: 13.812 min Scan# 2016

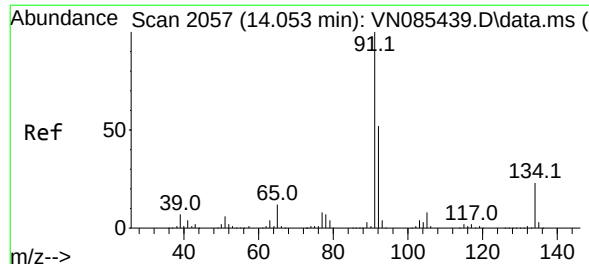
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	146	Resp:	229084
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.3	63.7
148	64.7	32.4	97.0





#89

n-Butylbenzene

Concen: 53.348 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

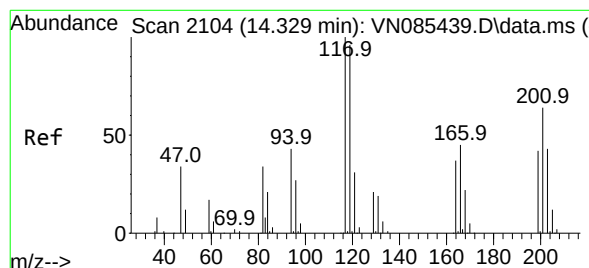
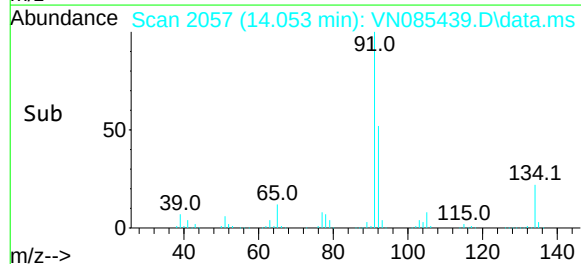
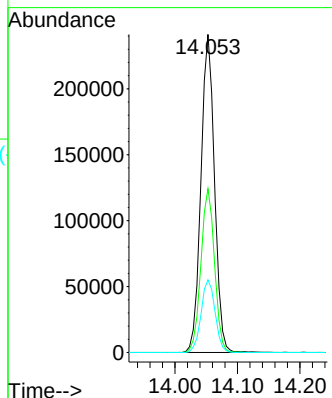
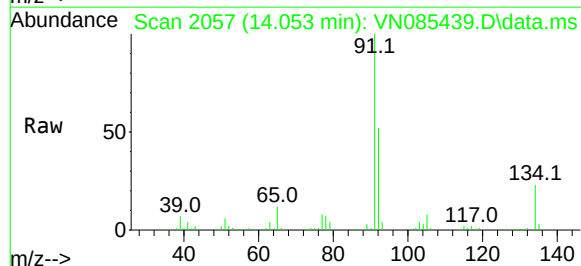
ClientSampleId :

VSTDICCC050

Tgt Ion:	91	Resp:	364111
Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.8	77.3
134	23.4	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 46.712 ug/l

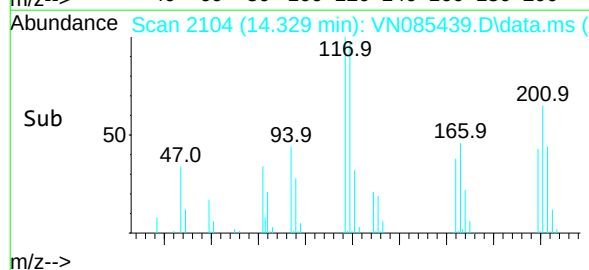
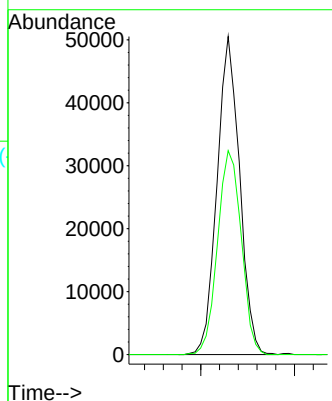
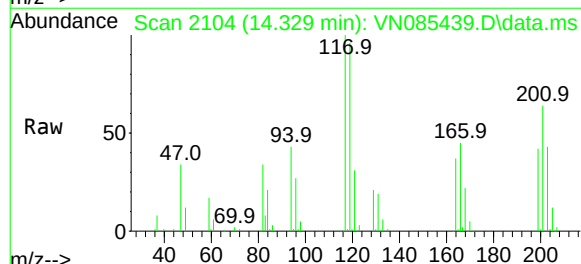
RT: 14.329 min Scan# 2104

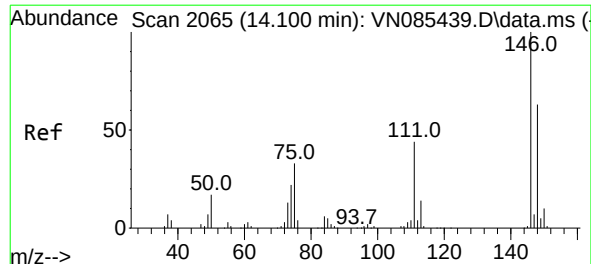
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	117	Resp:	84602
Ion	Ratio	Lower	Upper
117	100		
201	67.3	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 48.012 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

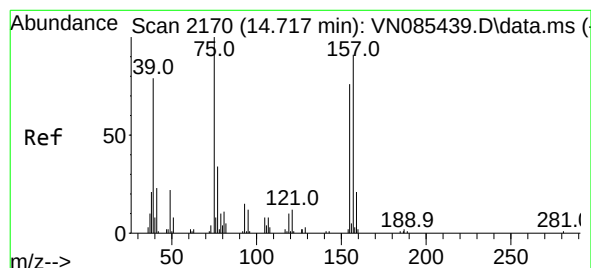
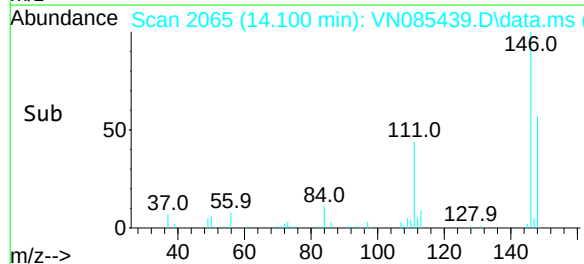
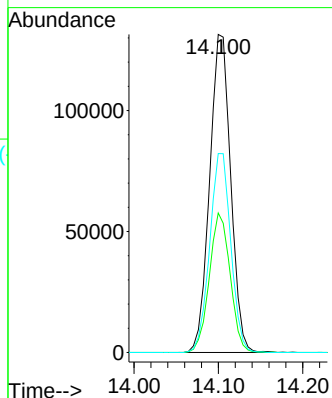
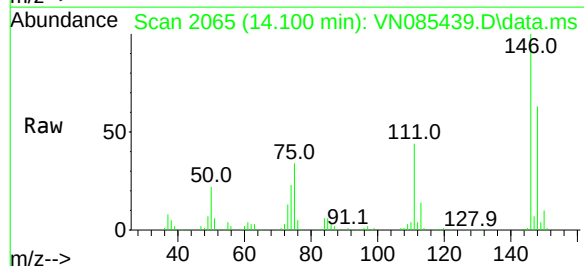
Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:	146	Resp:	228024
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	62.8	31.4	94.2

Manual Integrations
APPROVEDReviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

#92

1,2-Dibromo-3-Chloropropane

Concen: 50.971 ug/l

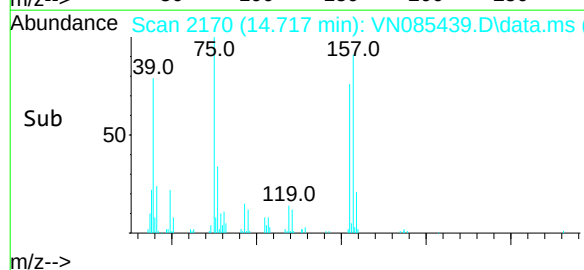
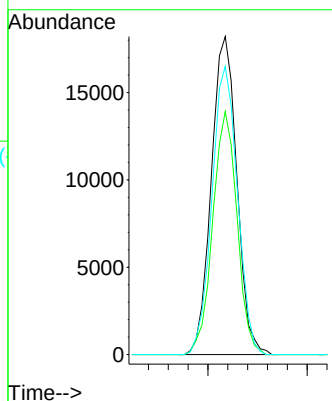
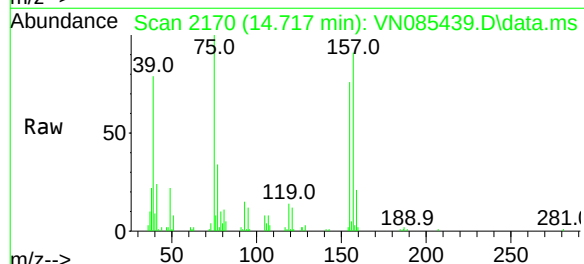
RT: 14.717 min Scan# 2170

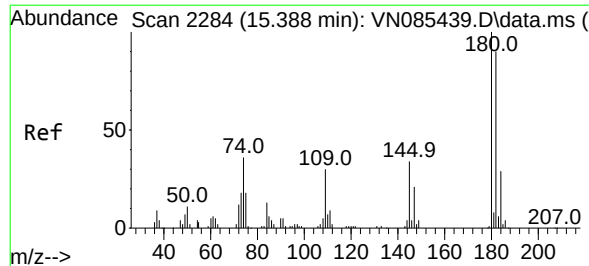
Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	75	Resp:	32536
Ion	Ratio	Lower	Upper
75	100		
155	72.8	36.4	109.2
157	90.7	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 51.857 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 114468

Ion Ratio Lower Upper

180 100

182 93.5 46.8 140.3

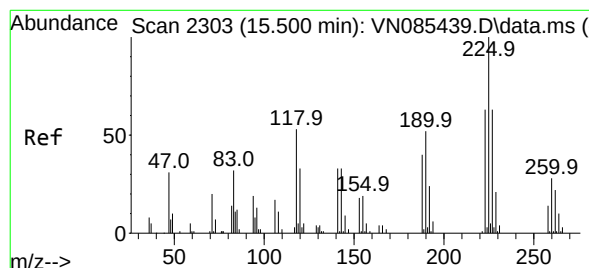
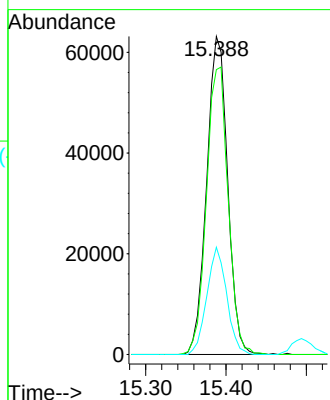
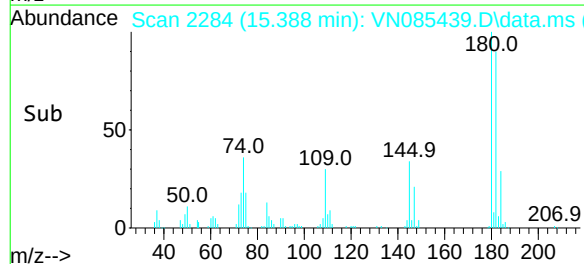
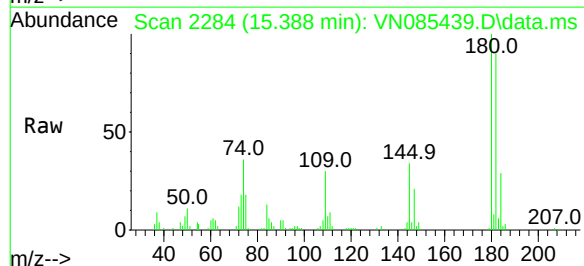
145 32.0 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 45.947 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

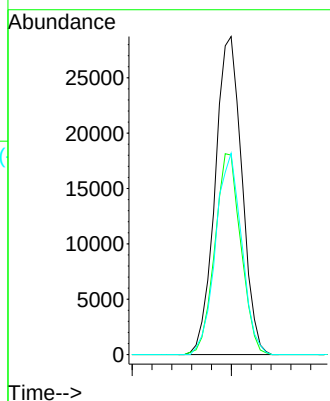
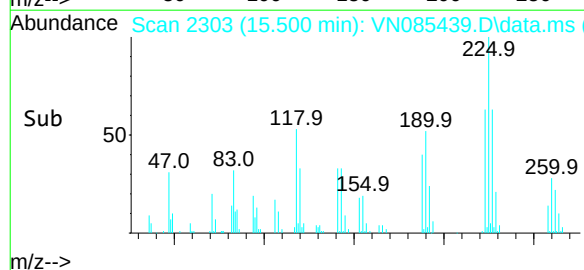
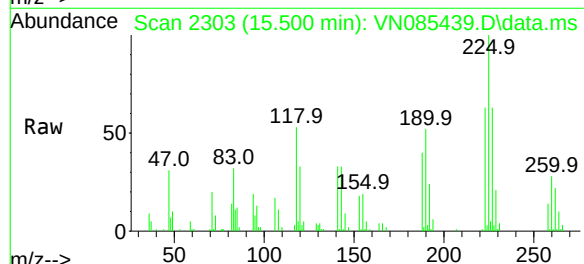
Tgt Ion:225 Resp: 53846

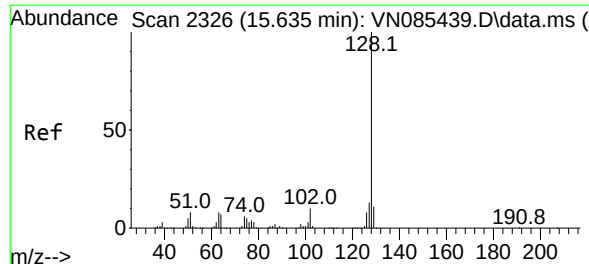
Ion Ratio Lower Upper

225 100

223 61.4 30.7 92.1

227 61.7 30.9 92.5





#95

Naphthalene

Concen: 55.243 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

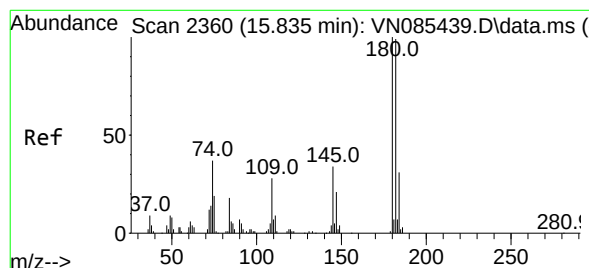
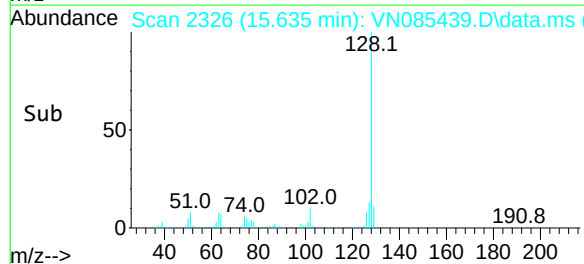
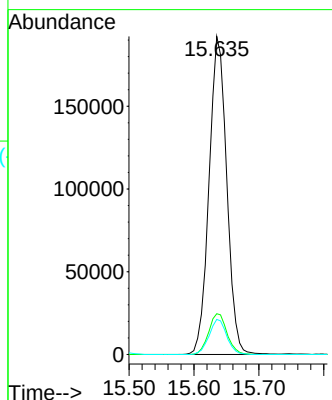
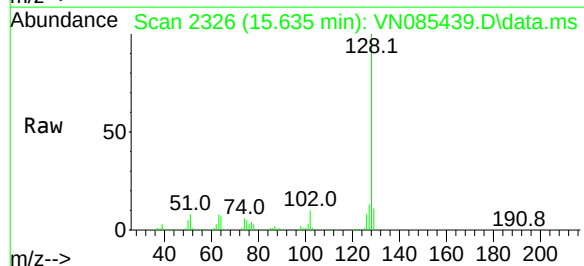
ClientSampleId :

VSTDICCC050

Tgt Ion:	128	Resp:	363882
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	11.0	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 51.601 ug/l

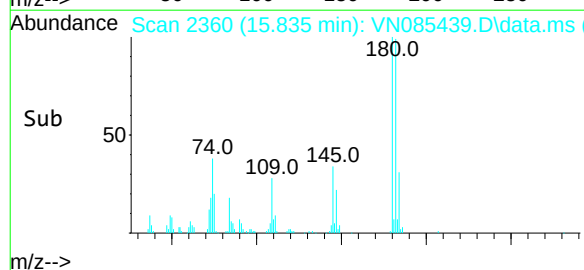
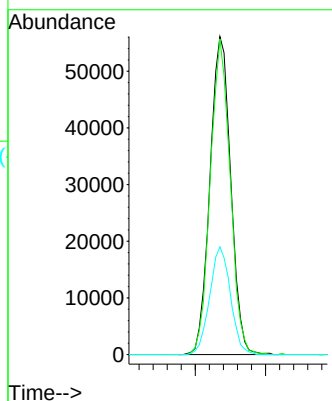
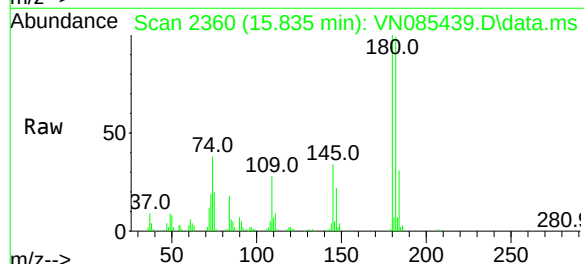
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:	180	Resp:	115251
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.4	142.2
145	33.8	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085440.D
 Acq On : 14 Jan 2025 15:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Jan 15 01:43:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	200796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143526	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	60593	18.694	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	37.380%#
35) Dibromofluoromethane	8.165	113	45655	19.322	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	38.640%#
50) Toluene-d8	10.559	98	164391	19.581	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	39.160%#
62) 4-Bromofluorobenzene	12.847	95	55798	19.430	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.860%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	54666	20.107	ug/l	98
3) Chloromethane	2.359	50	58426	19.848	ug/l	100
4) Vinyl Chloride	2.512	62	58403	19.739	ug/l	99
5) Bromomethane	2.954	94	36440	20.389	ug/l	94
6) Chloroethane	3.118	64	37594	20.041	ug/l	93
7) Trichlorofluoromethane	3.501	101	88121	20.526	ug/l	99
8) Diethyl Ether	3.965	74	29138	19.647	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48933	20.237	ug/l	99
10) Methyl Iodide	4.589	142	56567	20.428	ug/l	93
11) Tert butyl alcohol	5.506	59	37984	102.342	ug/l	100
12) 1,1-Dichloroethene	4.342	96	44670	20.728	ug/l	95
13) Acrolein	4.171	56	49649	97.995	ug/l	99
14) Allyl chloride	5.024	41	67705	19.362	ug/l	96
15) Acrylonitrile	5.712	53	121626	103.171	ug/l	99
16) Acetone	4.424	43	101065	96.502	ug/l	96
17) Carbon Disulfide	4.712	76	132300	19.939	ug/l	98
18) Methyl Acetate	5.018	43	60873	19.115	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	148847	21.272	ug/l	100
20) Methylene Chloride	5.271	84	52813	20.370	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	46115	20.023	ug/l	98
22) Diisopropyl ether	6.671	45	166719	21.480	ug/l	97
23) Vinyl Acetate	6.594	43	588567m	107.984	ug/l	
24) 1,1-Dichloroethane	6.565	63	96875	20.469	ug/l #	96
25) 2-Butanone	7.477	43	159952	103.786	ug/l	98
26) 2,2-Dichloropropane	7.483	77	79145	20.684	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	57454	21.180	ug/l	98
28) Bromochloromethane	7.812	49	41181	18.703	ug/l	99
29) Tetrahydrofuran	7.836	42	104792	107.247	ug/l	99
30) Chloroform	7.959	83	99655	20.374	ug/l	99
31) Cyclohexane	8.253	56	82980	20.173	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	87659	20.431	ug/l	98
36) 1,1-Dichloropropene	8.371	75	67949	20.490	ug/l	98
37) Ethyl Acetate	7.553	43	66443	19.850	ug/l	96
38) Carbon Tetrachloride	8.359	117	78842	20.767	ug/l	96
39) Methylcyclohexane	9.594	83	65012	20.862	ug/l	96
40) Benzene	8.600	78	207985	20.873	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085440.D
 Acq On : 14 Jan 2025 15:43
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 01:28:51 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	36578	21.004	ug/l	99
42) 1,2-Dichloroethane	8.665	62	78402	20.891	ug/l	99
43) Isopropyl Acetate	8.683	43	109131	20.347	ug/l	98
44) Trichloroethene	9.347	130	48009	20.699	ug/l	96
45) 1,2-Dichloropropane	9.618	63	52833	20.758	ug/l	93
46) Dibromomethane	9.700	93	37721	20.540	ug/l	98
47) Bromodichloromethane	9.882	83	78918	21.093	ug/l	96
48) Methyl methacrylate	9.677	41	50224	20.808	ug/l	96
49) 1,4-Dioxane	9.688	88	17140	421.686	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	336911	108.249	ug/l	100
52) Toluene	10.630	92	125172	21.680	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	74129	20.965	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	81897	21.684	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	48039	21.025	ug/l	97
56) Ethyl methacrylate	10.871	69	70934	19.649	ug/l	99
57) 1,3-Dichloropropane	11.159	76	84210	21.196	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	153681	105.991	ug/l	100
59) 2-Hexanone	11.194	43	240595	109.863	ug/l	98
60) Dibromochloromethane	11.353	129	56069	20.326	ug/l	96
61) 1,2-Dibromoethane	11.465	107	48465	21.309	ug/l	96
64) Tetrachloroethene	11.100	164	43243	21.408	ug/l	96
65) Chlorobenzene	11.888	112	136809	21.077	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	48370	20.304	ug/l	98
67) Ethyl Benzene	11.959	91	229978	21.753	ug/l	98
68) m/p-Xylenes	12.071	106	177755	45.494	ug/l	100
69) o-Xylene	12.394	106	84548	22.643	ug/l	98
70) Styrene	12.412	104	140581	22.749	ug/l	99
71) Bromoform	12.576	173	36961	21.683	ug/l #	96
73) Isopropylbenzene	12.694	105	211354	21.819	ug/l	100
74) N-amyl acetate	12.494	43	94292	21.656	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68151	19.917	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	64180m	22.036	ug/l	
77) Bromobenzene	12.976	156	52022	20.556	ug/l	99
78) n-propylbenzene	13.035	91	252610	22.028	ug/l	100
79) 2-Chlorotoluene	13.123	91	158511	21.358	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	180294	22.533	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	22178m	20.569	ug/l	
82) 4-Chlorotoluene	13.218	91	161880	21.906	ug/l	100
83) tert-Butylbenzene	13.435	119	147541	21.958	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	183144	22.965	ug/l	99
85) sec-Butylbenzene	13.612	105	209133	22.457	ug/l	100
86) p-Isopropyltoluene	13.729	119	168888	21.661	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	97652	20.952	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	98321	20.351	ug/l	99
89) n-Butylbenzene	14.053	91	142673	21.355	ug/l	99
90) Hexachloroethane	14.329	117	35205	19.858	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	94954	20.425	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12859	20.580	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	45878	21.233	ug/l	99
94) Hexachlorobutadiene	15.500	225	22719	19.805	ug/l	95
95) Naphthalene	15.635	128	134793	20.906	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	45468	20.797	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

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

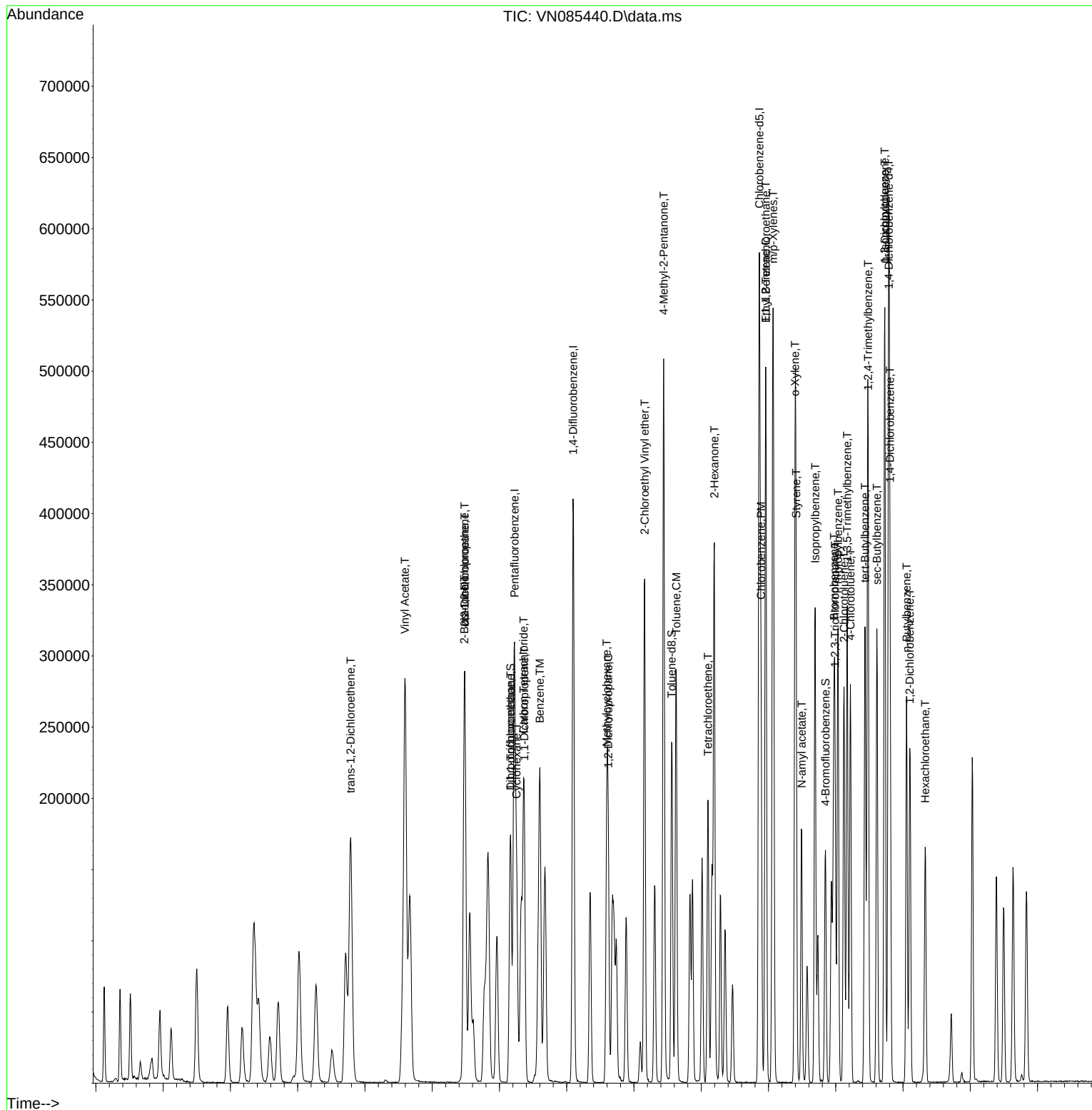

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\  
Data File : VN085440.D  
Acq On    : 14 Jan 2025   15:43  
Operator  : JC\MD  
Sample    : VSTDICC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6   Sample Multiplier: 1
```

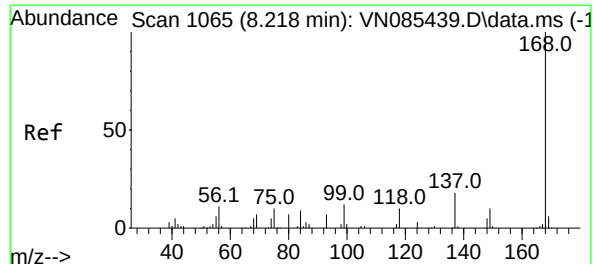
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\M\$VOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





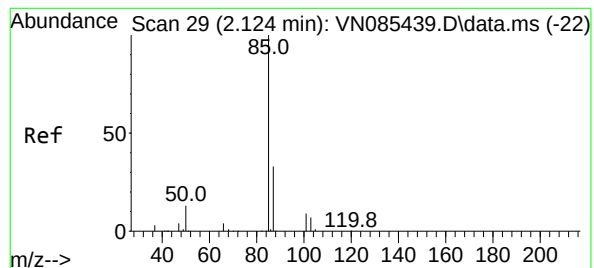
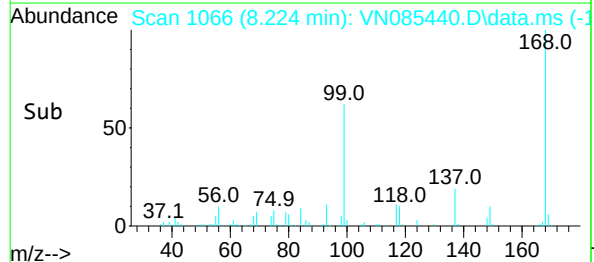
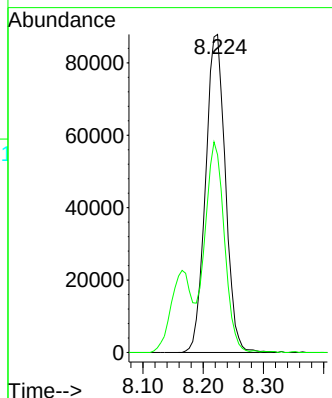
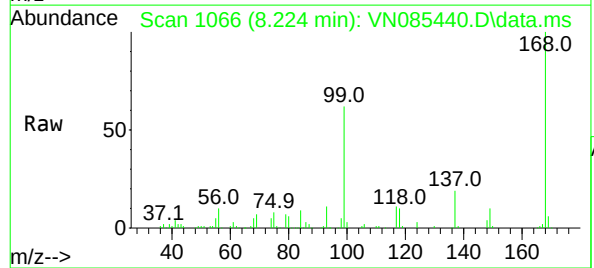
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 168 Resp: 200796
Ion Ratio Lower Upper
168 100
99 62.2 53.6 80.4

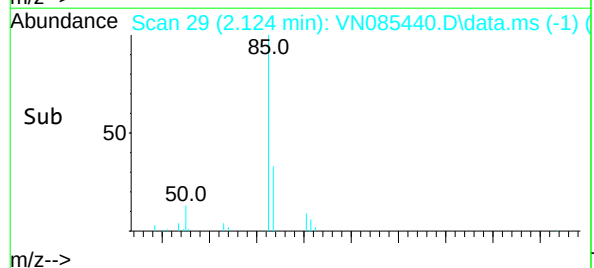
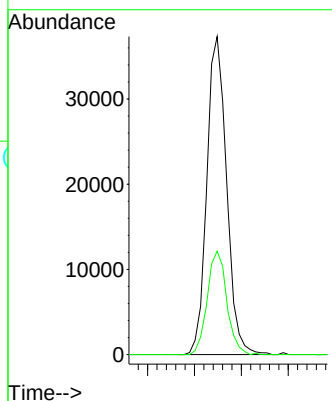
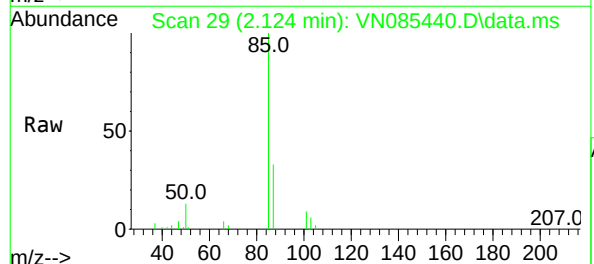
Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

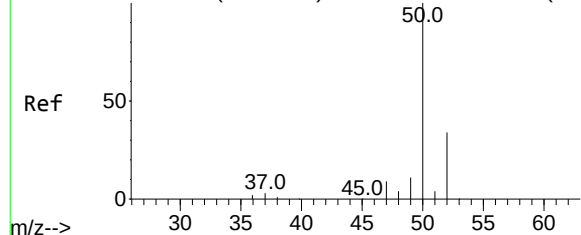


#2
Dichlorodifluoromethane
Concen: 20.107 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 85 Resp: 54666
Ion Ratio Lower Upper
85 100
87 32.5 16.7 50.1



Abundance Scan 69 (2.359 min): VN085439.D\data.ms (-62)



#3

Chloromethane

Concen: 19.848 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 58426

Ion Ratio Lower Upper

50 100

52 34.0 27.0 40.6

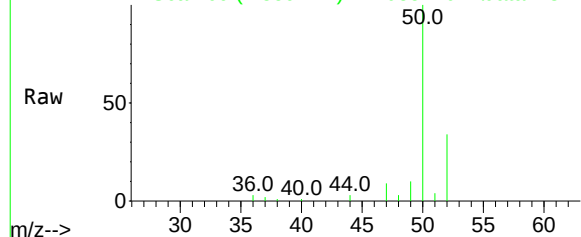
Manual Integrations

APPROVED

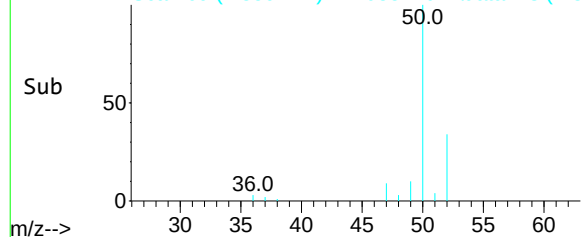
Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

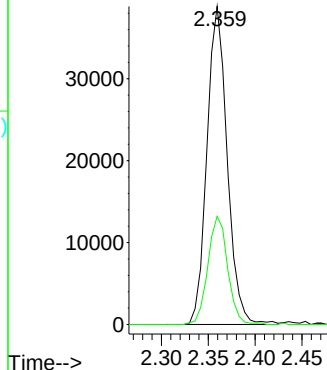
Abundance Scan 69 (2.359 min): VN085440.D\data.ms



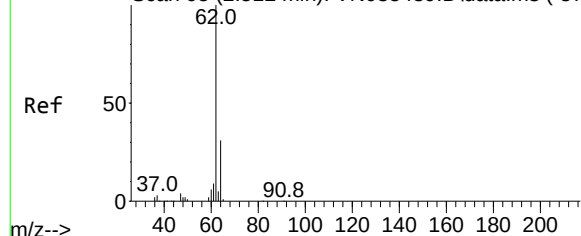
Abundance Scan 69 (2.359 min): VN085440.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085439.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 19.739 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

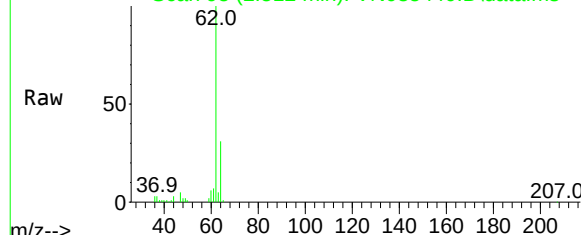
Tgt Ion: 62 Resp: 58403

Ion Ratio Lower Upper

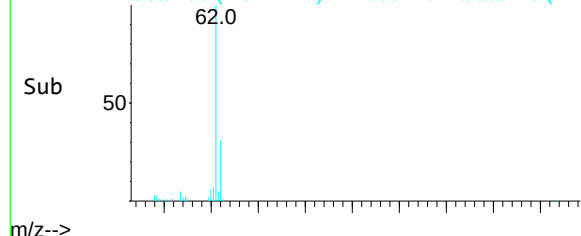
62 100

64 30.7 24.8 37.2

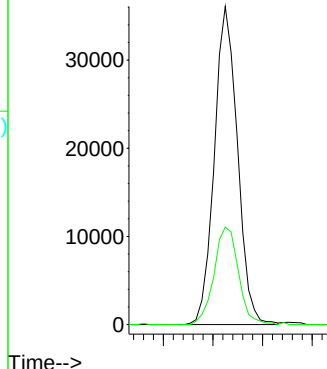
Abundance Scan 95 (2.512 min): VN085440.D\data.ms

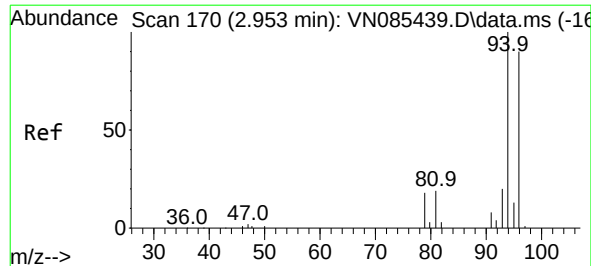


Abundance Scan 95 (2.512 min): VN085440.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 20.389 ug/l

RT: 2.954 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 94 Resp: 36440

Ion Ratio Lower Upper

94 100

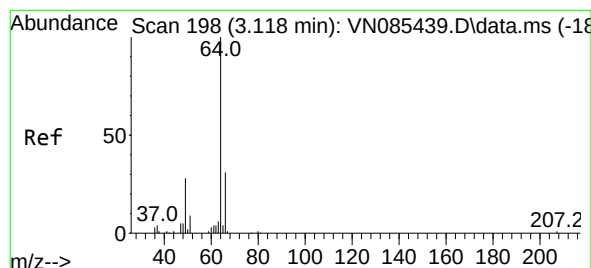
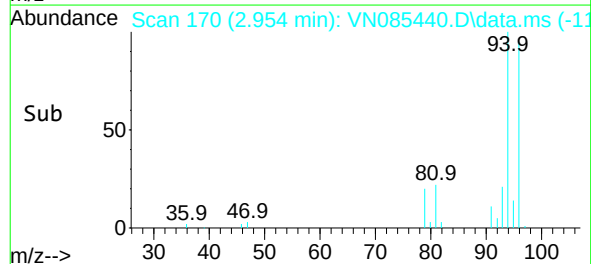
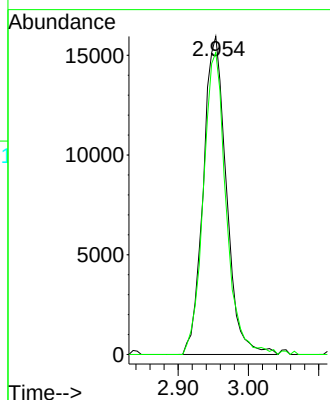
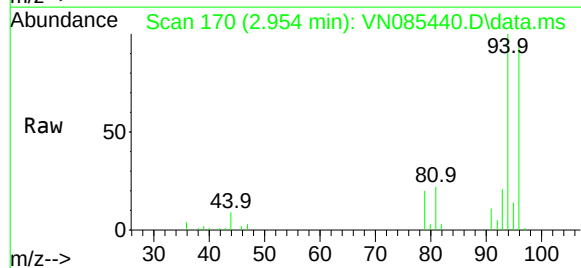
96 94.9 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 20.041 ug/l

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN085440.D

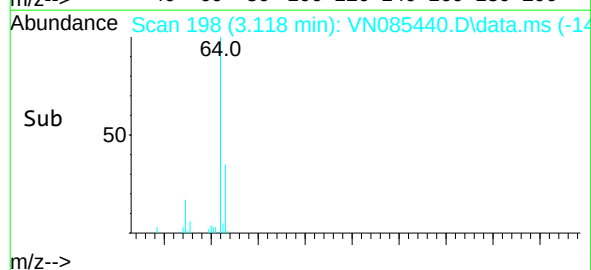
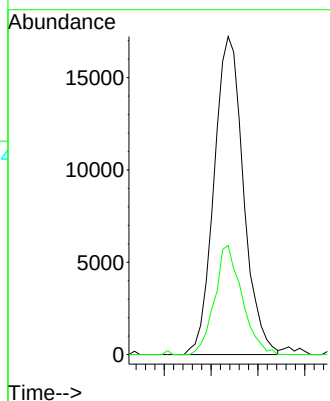
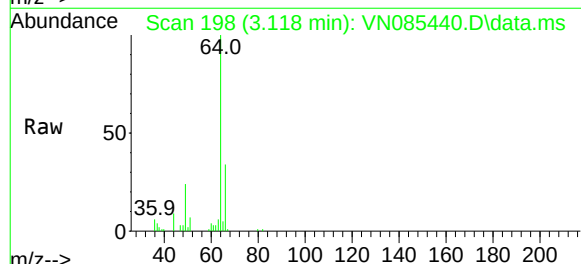
Acq: 14 Jan 2025 15:43

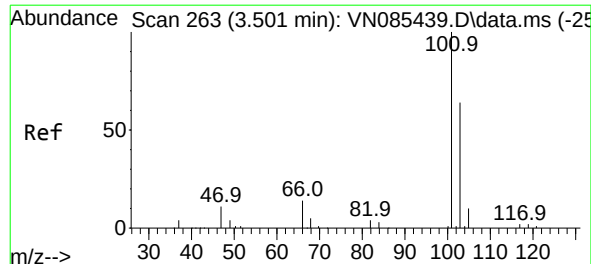
Tgt Ion: 64 Resp: 37594

Ion Ratio Lower Upper

64 100

66 34.3 24.6 36.8





#7

Trichlorofluoromethane

Concen: 20.526 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:101 Resp: 88121

Ion Ratio Lower Upper

101 100

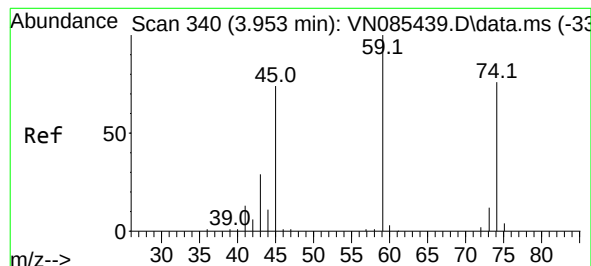
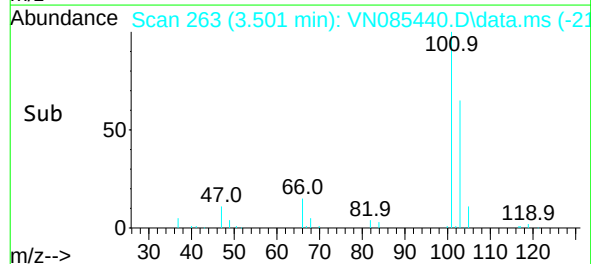
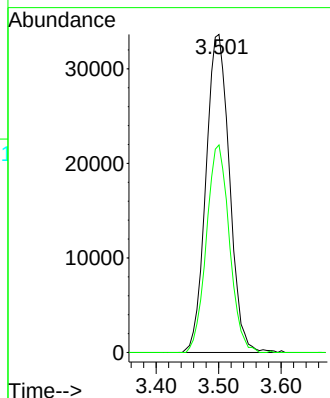
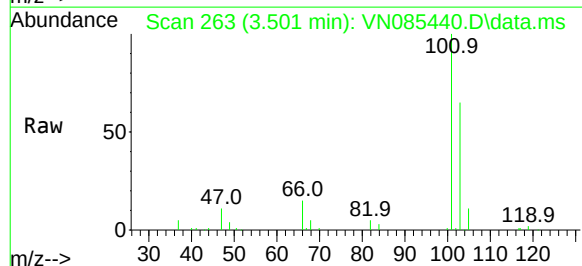
103 65.3 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 19.647 ug/l

RT: 3.965 min Scan# 342

Delta R.T. 0.012 min

Lab File: VN085440.D

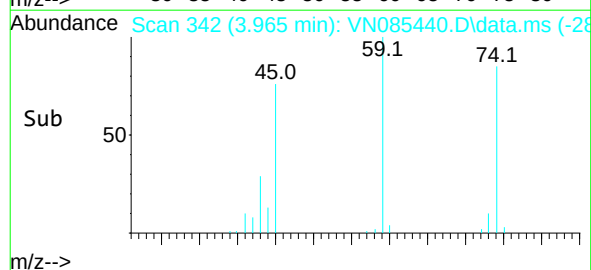
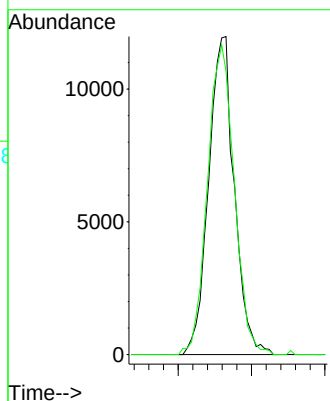
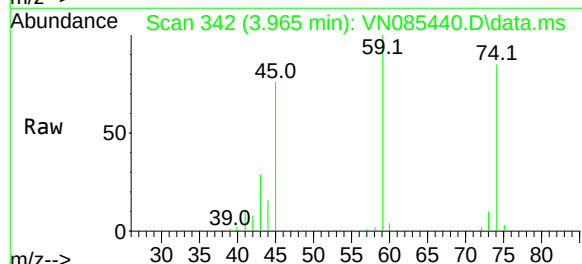
Acq: 14 Jan 2025 15:43

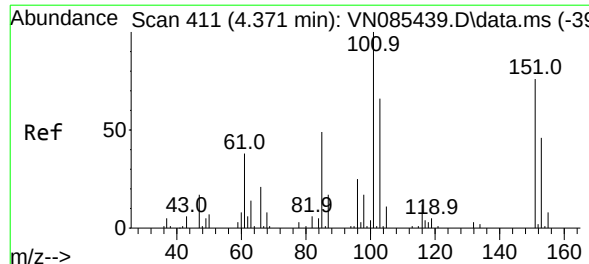
Tgt Ion: 74 Resp: 29138

Ion Ratio Lower Upper

74 100

45 101.8 49.7 149.1





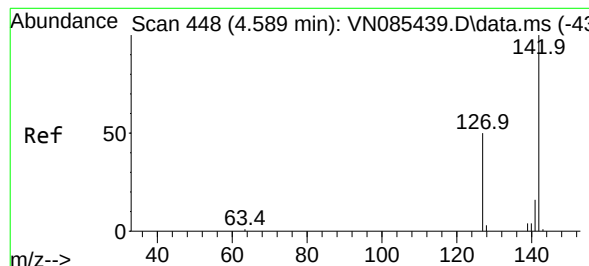
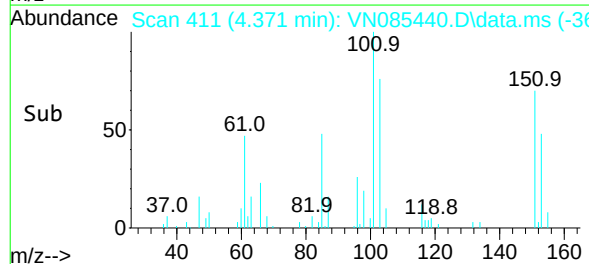
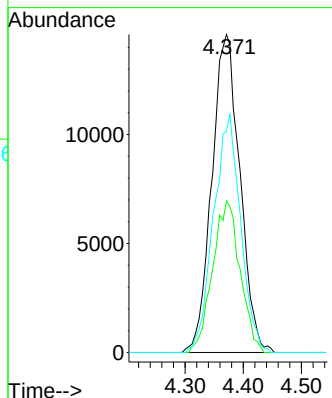
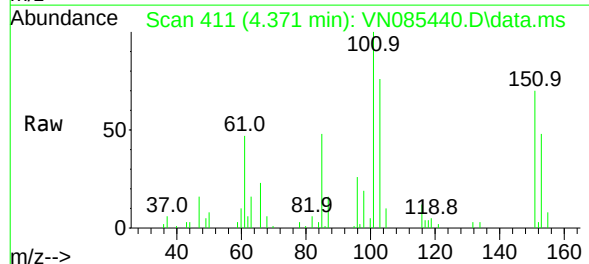
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.237 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 48933
Ion Ratio Lower Upper
101 100
85 46.6 37.8 56.8
151 72.1 58.8 88.2

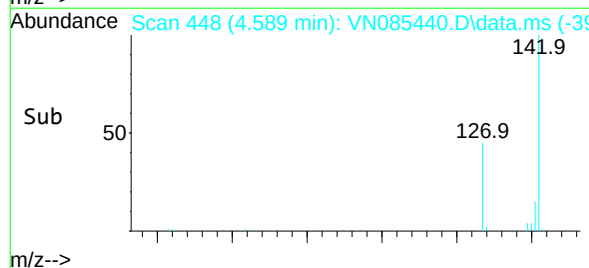
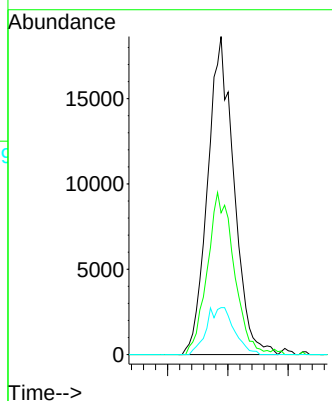
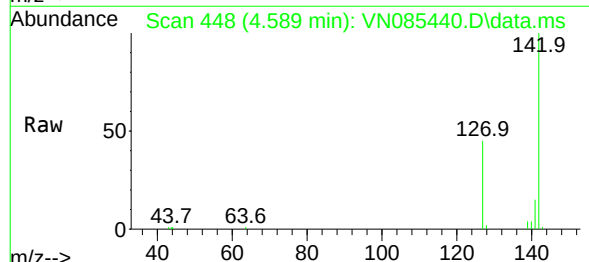
Manual Integrations
APPROVED

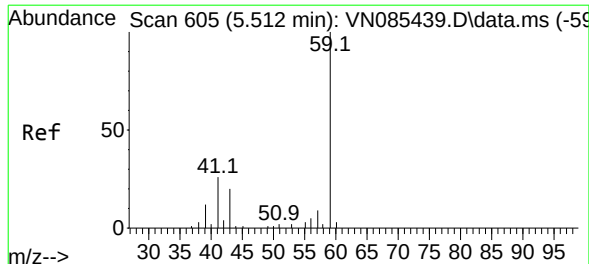
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 20.428 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:142 Resp: 56567
Ion Ratio Lower Upper
142 100
127 44.6 40.3 60.5
141 14.8 12.8 19.2





#11

Tert butyl alcohol

Concen: 102.342 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 37984

Ion Ratio Lower Upper

59 100

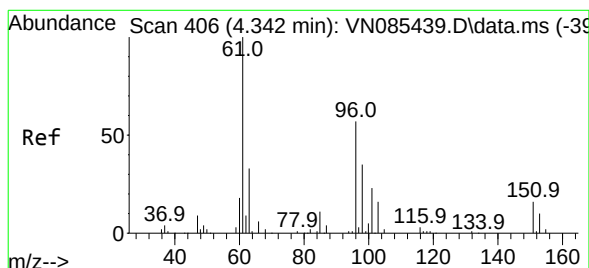
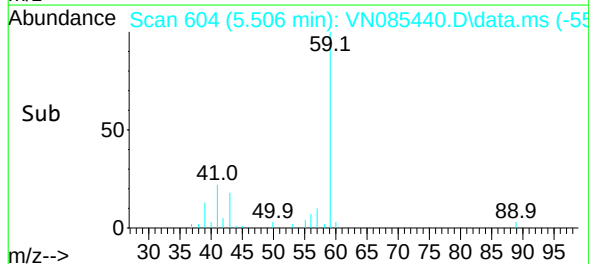
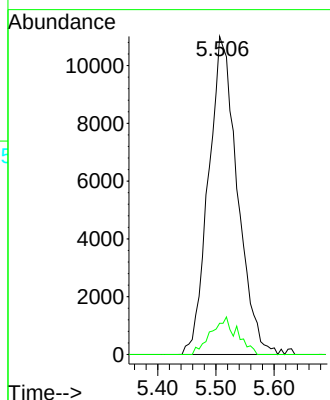
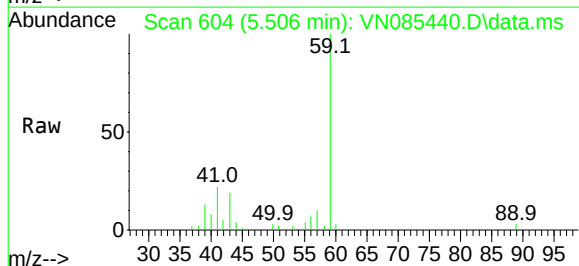
57 10.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 20.728 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

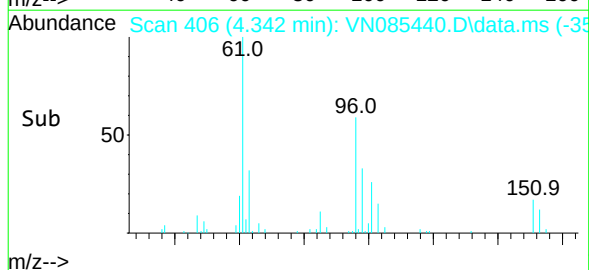
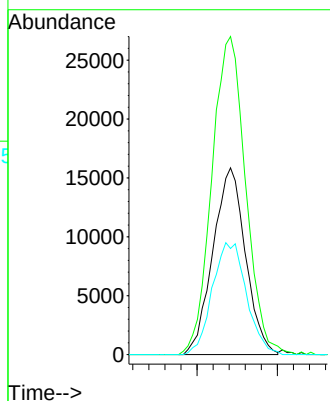
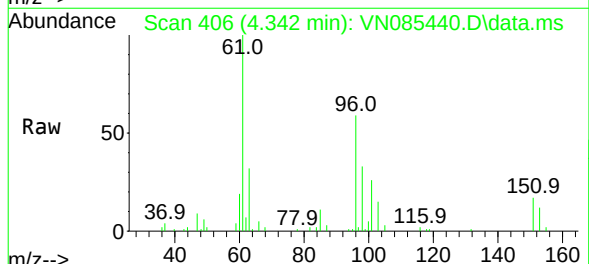
Tgt Ion: 96 Resp: 44670

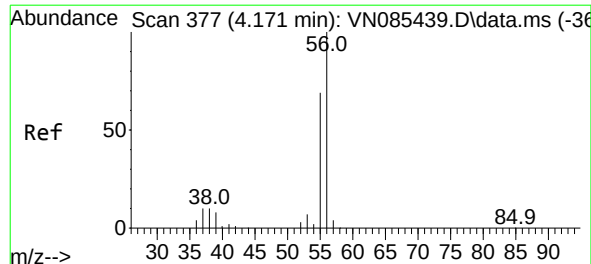
Ion Ratio Lower Upper

96 100

61 170.3 141.0 211.4

98 56.8 49.0 73.6





#13

Acrolein

Concen: 97.995 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 49649

Ion Ratio Lower Upper

56 100

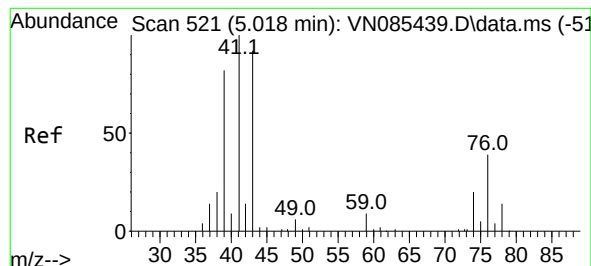
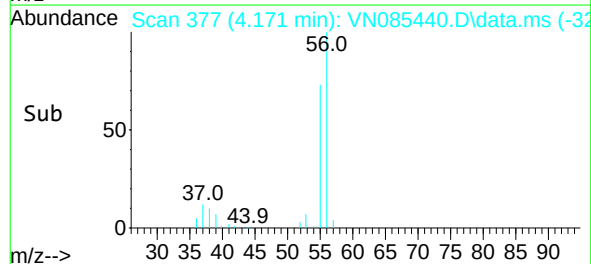
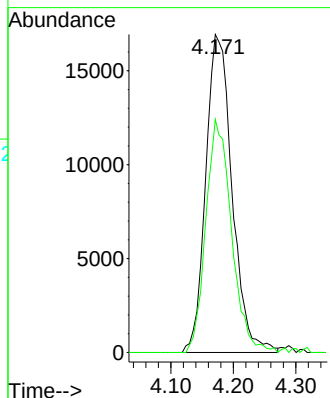
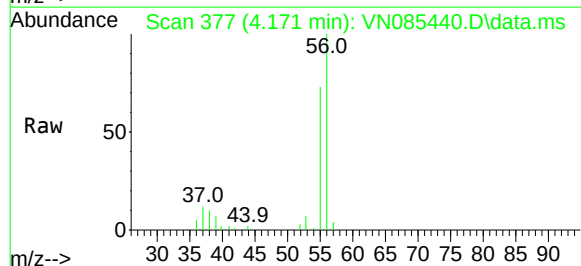
55 71.4 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 19.362 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

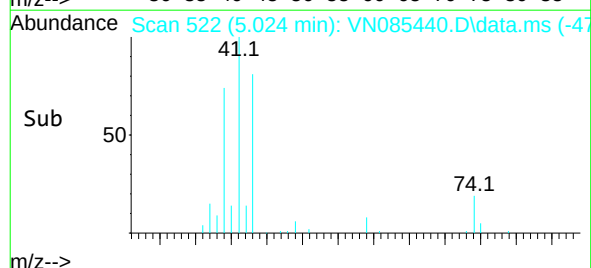
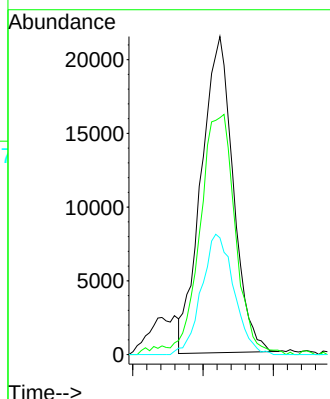
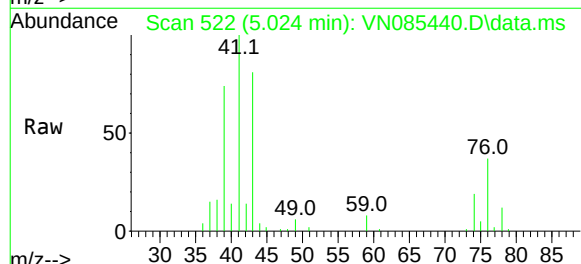
Tgt Ion: 41 Resp: 67705

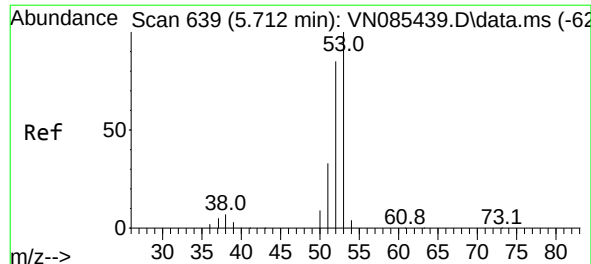
Ion Ratio Lower Upper

41 100

39 85.0 64.4 96.6

76 38.6 30.5 45.7





#15

Acrylonitrile

Concen: 103.171 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

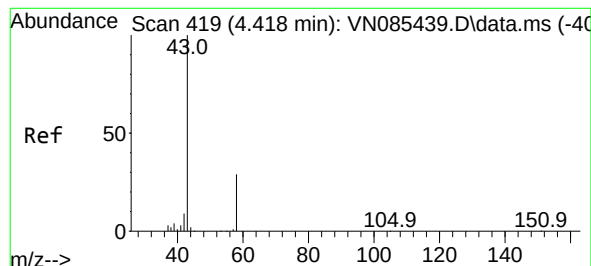
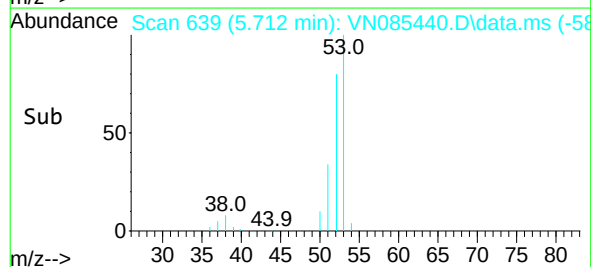
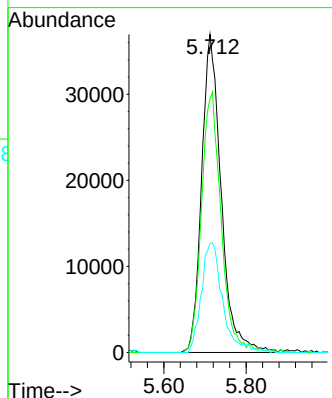
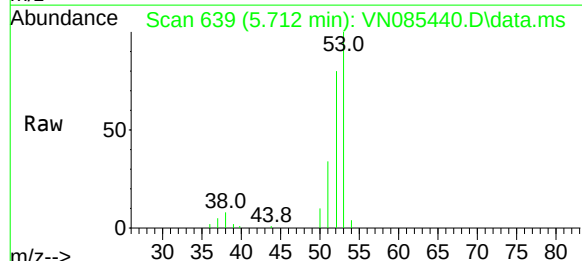
ClientSampleId :

VSTDICC020

Tgt Ion:	53	Resp:	121626
Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.5	98.3
51	36.1	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 96.502 ug/l

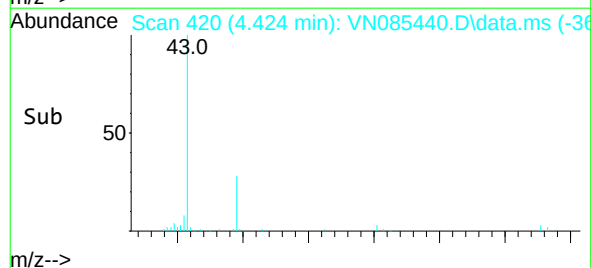
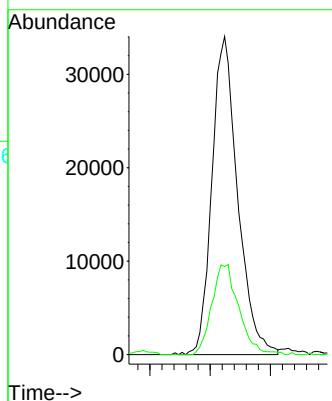
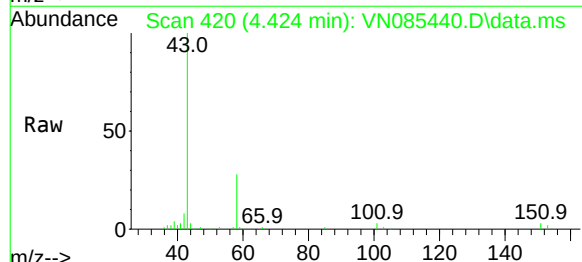
RT: 4.424 min Scan# 420

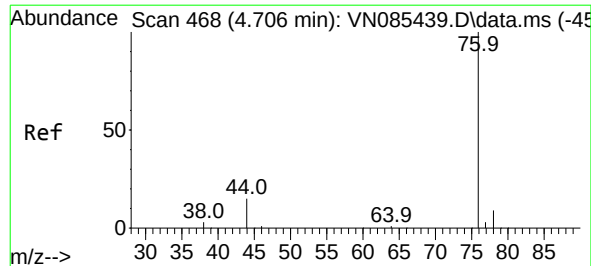
Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	43	Resp:	101065
Ion	Ratio	Lower	Upper
43	100		
58	27.7	23.8	35.6





#17

Carbon Disulfide

Concen: 19.939 ug/l

RT: 4.712 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 132300

Ion Ratio Lower Upper

76 100

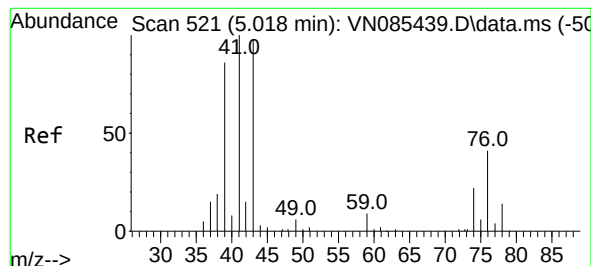
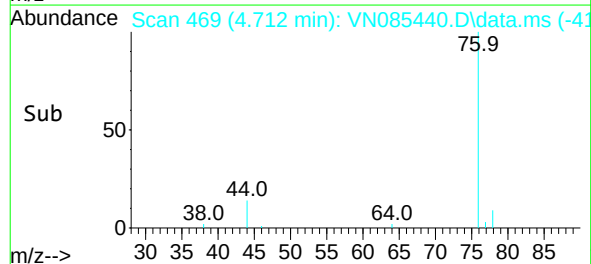
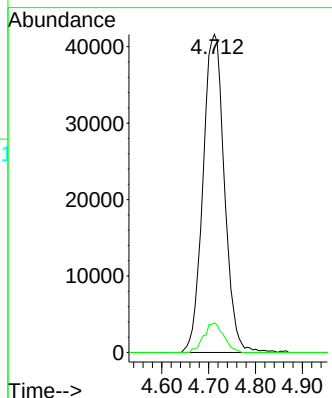
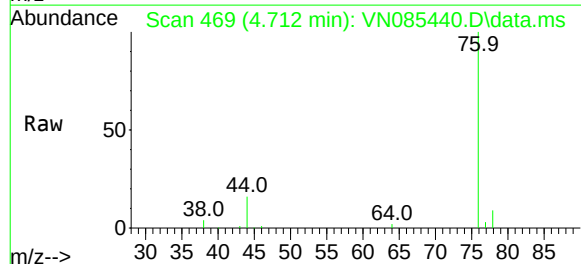
78 9.3 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 19.115 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085440.D

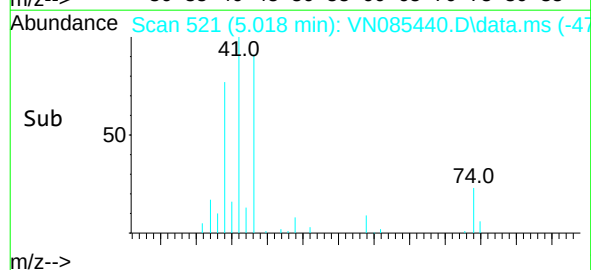
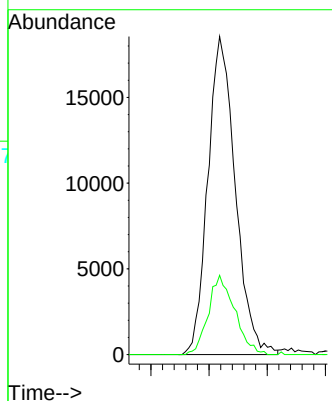
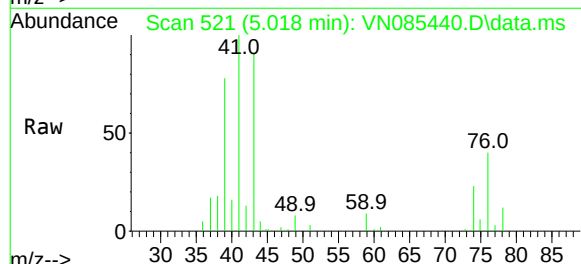
Acq: 14 Jan 2025 15:43

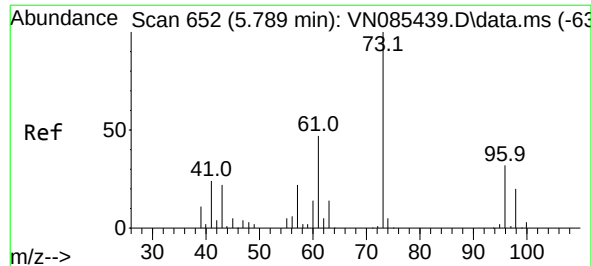
Tgt Ion: 43 Resp: 60873

Ion Ratio Lower Upper

43 100

74 24.0 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 21.272 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 148847

Ion Ratio Lower Upper

73 100

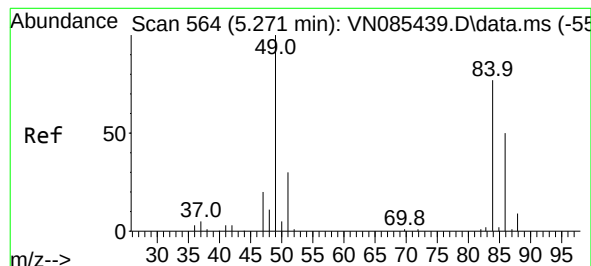
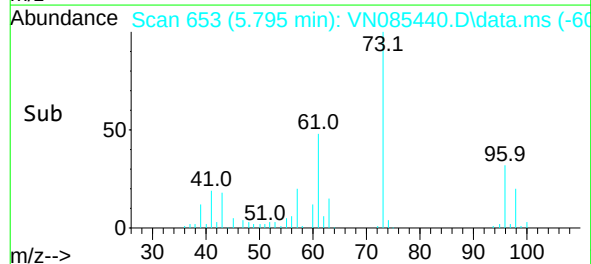
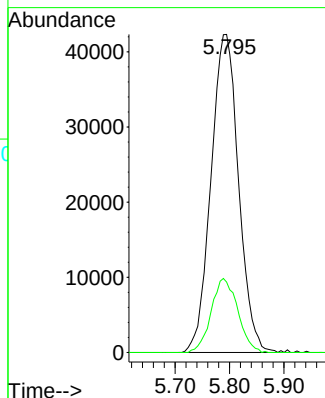
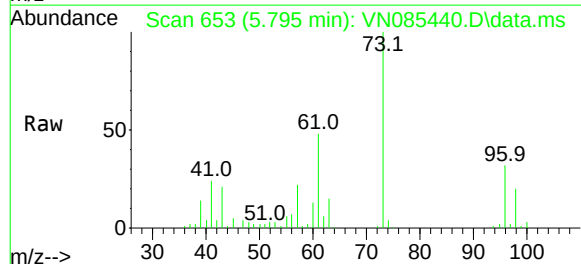
57 22.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 20.370 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 84 Resp: 52813

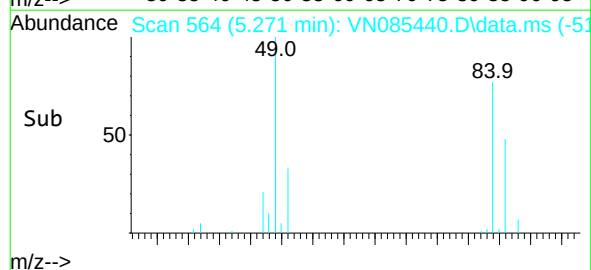
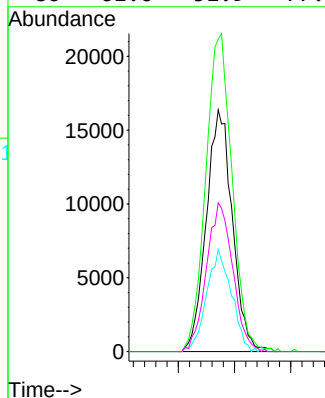
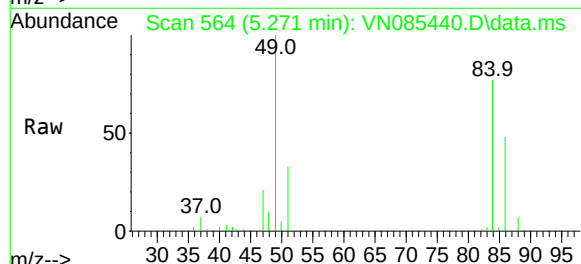
Ion Ratio Lower Upper

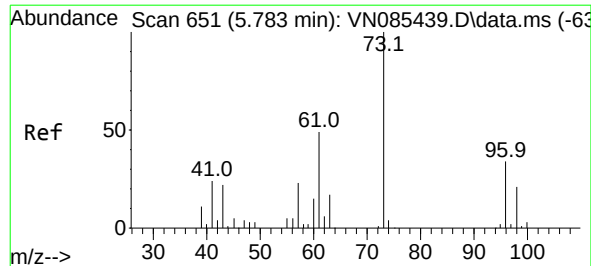
84 100

49 129.2 104.1 156.1

51 42.2 31.0 46.4

86 61.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 20.023 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085440.D

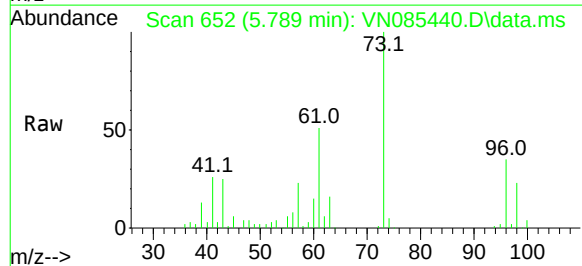
Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

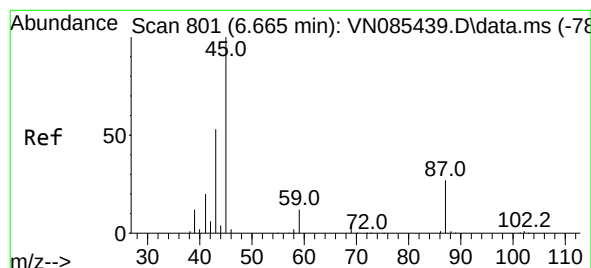
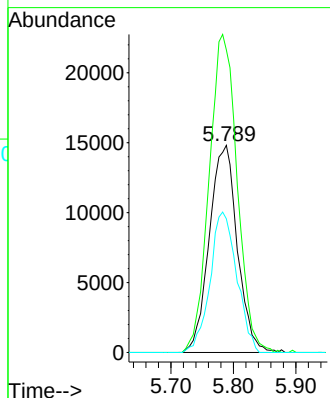
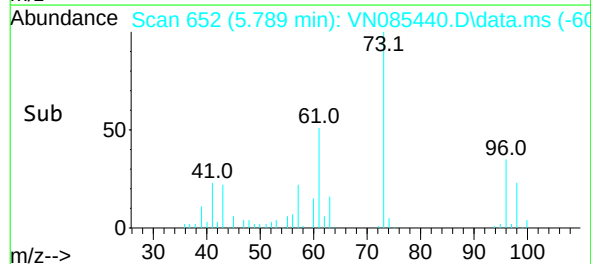
VSTDIC020



Tgt Ion:	96	Resp:	46115
Ion	Ratio	Lower	Upper
96	100		
61	146.1	115.7	173.5
98	64.5	49.8	74.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

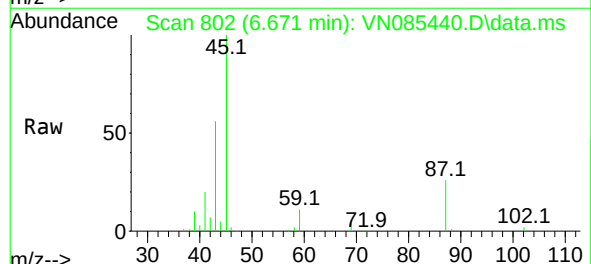
Concen: 21.480 ug/l

RT: 6.671 min Scan# 802

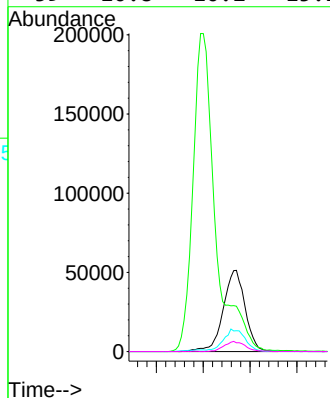
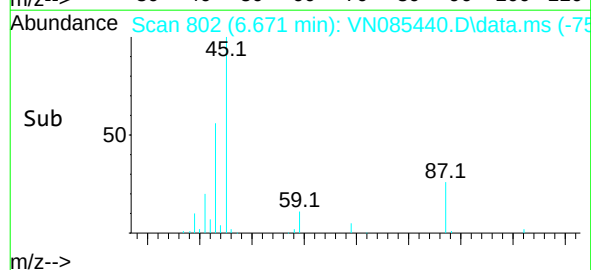
Delta R.T. 0.006 min

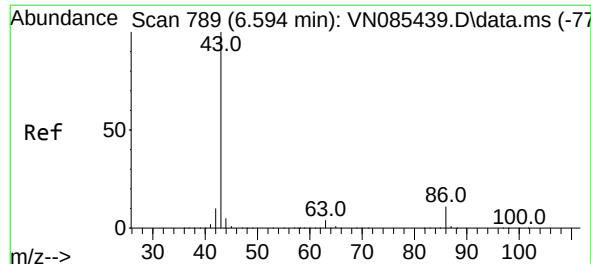
Lab File: VN085440.D

Acq: 14 Jan 2025 15:43



Tgt Ion:	45	Resp:	166719
Ion	Ratio	Lower	Upper
45	100		
43	54.3	45.0	67.6
87	25.3	21.8	32.8
59	10.8	10.2	15.2





#23

Vinyl Acetate

Concen: 107.984 ug/l m

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 588567

Ion Ratio Lower Upper

43 100

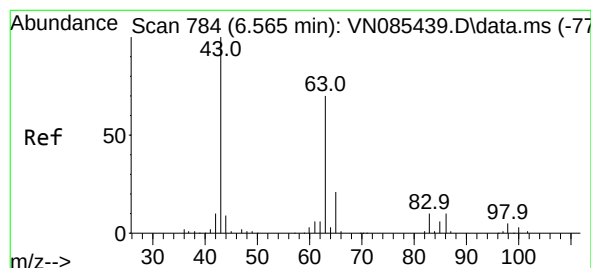
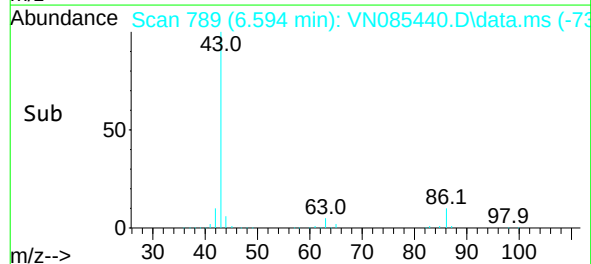
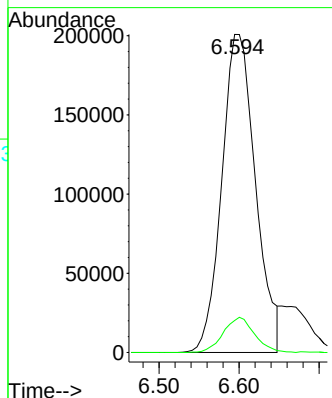
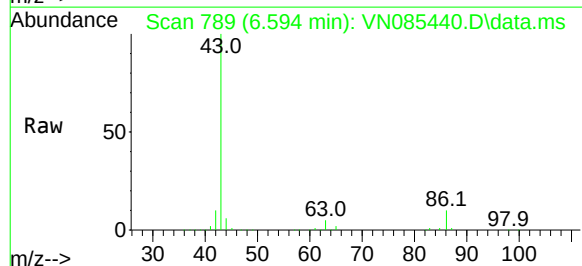
86 10.1 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 20.469 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

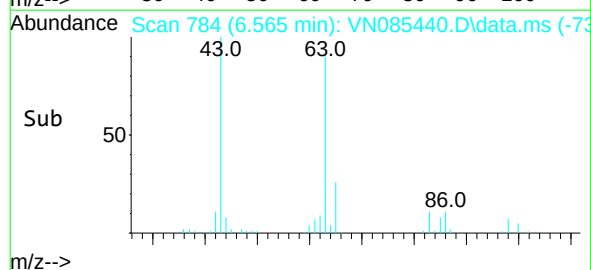
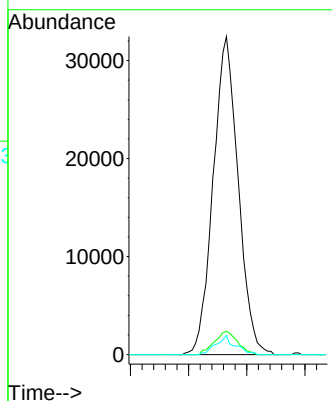
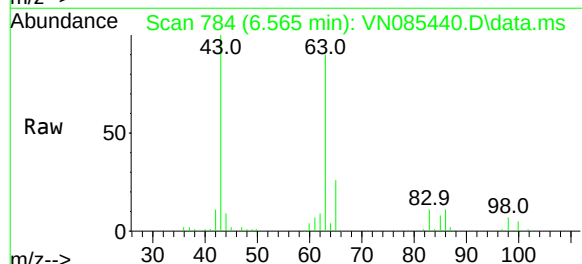
Tgt Ion: 63 Resp: 96875

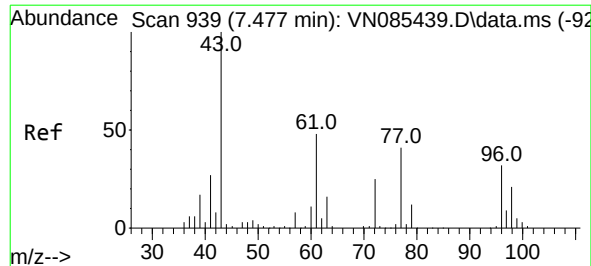
Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.8

100 6.0 2.0 6.0#





#25

2-Butanone

Concen: 103.786 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 159952

Ion Ratio Lower Upper

43 100

72 24.1 20.2 30.4

Instrument :

MSVOA_N

ClientSampleId :

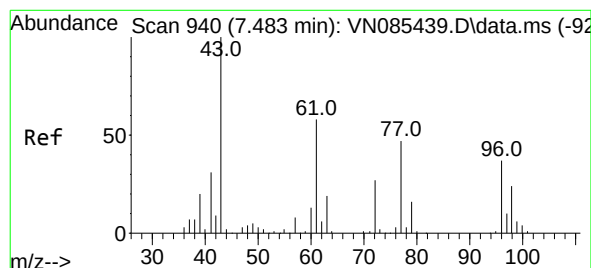
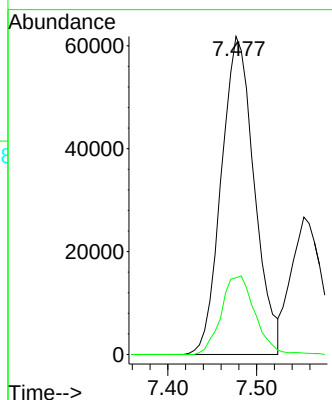
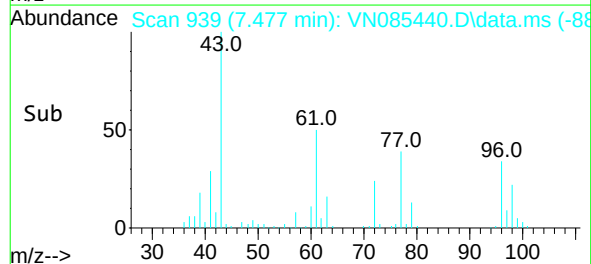
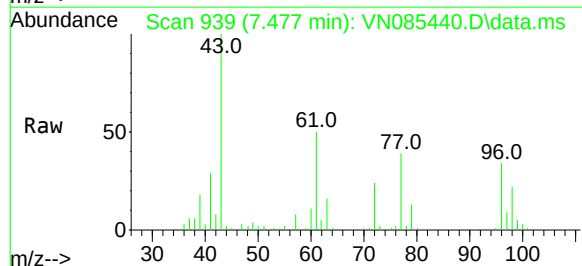
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 20.684 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085440.D

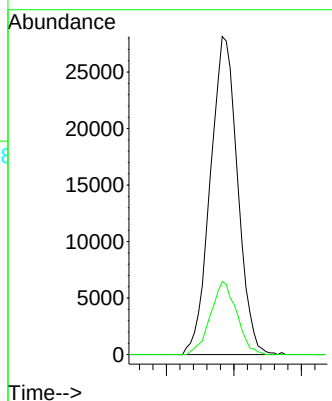
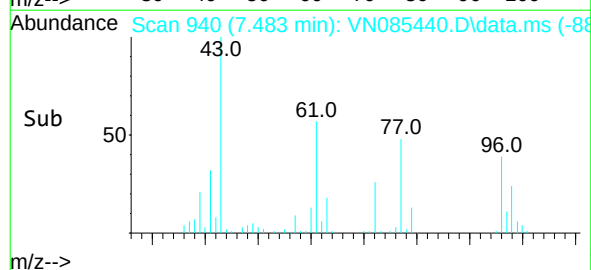
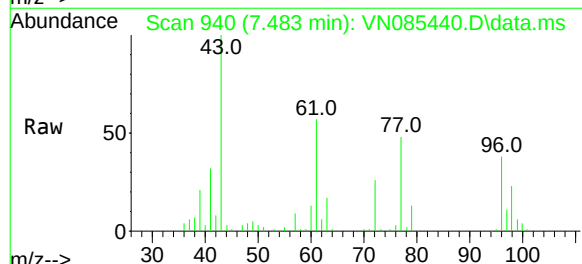
Acq: 14 Jan 2025 15:43

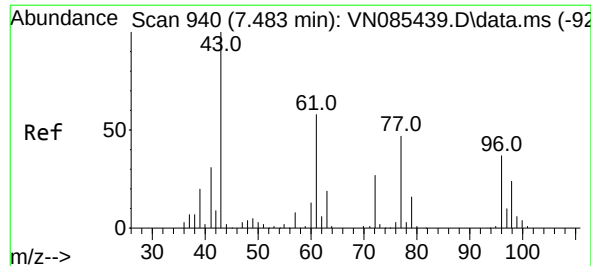
Tgt Ion: 77 Resp: 79145

Ion Ratio Lower Upper

77 100

97 22.0 10.7 32.1





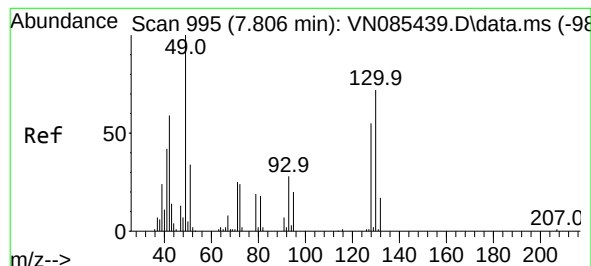
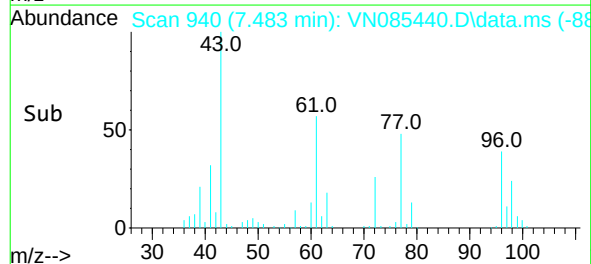
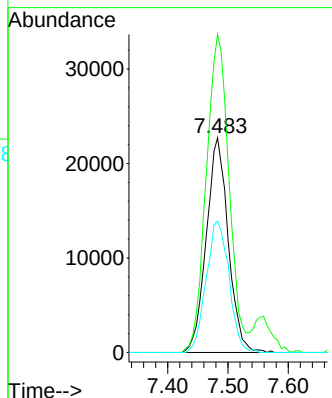
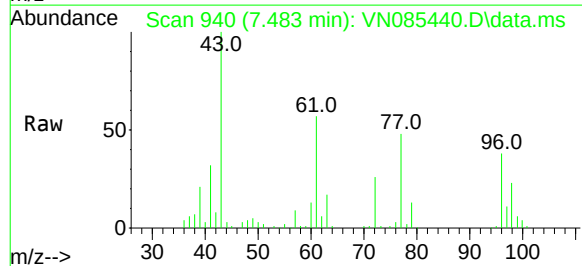
#27
cis-1,2-Dichloroethene
Concen: 21.180 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 57454
Ion Ratio Lower Upper
96 100
61 153.0 0.0 311.8
98 63.7 0.0 126.0

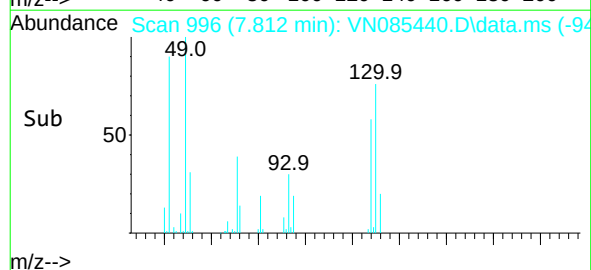
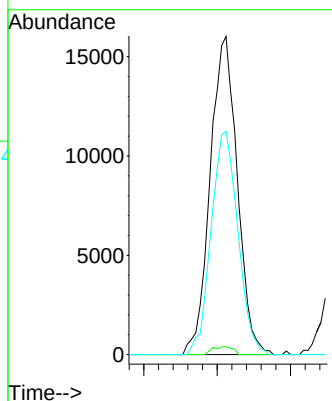
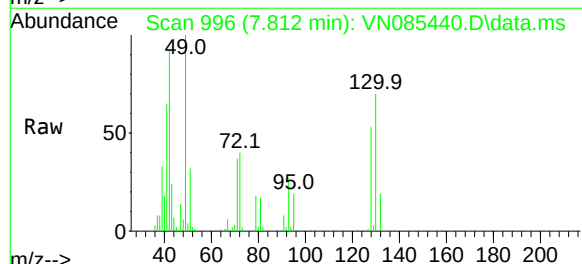
Manual Integrations
APPROVED

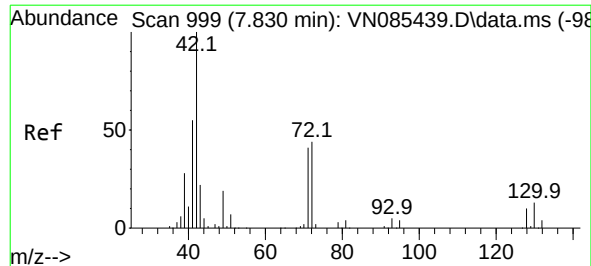
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 18.703 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 49 Resp: 41181
Ion Ratio Lower Upper
49 100
129 1.9 0.0 4.4
130 69.3 55.0 82.4





#29

Tetrahydrofuran

Concen: 107.247 ug/l

RT: 7.836 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 42 Resp: 104792

Ion Ratio Lower Upper

42 100

72 42.6 34.2 51.2

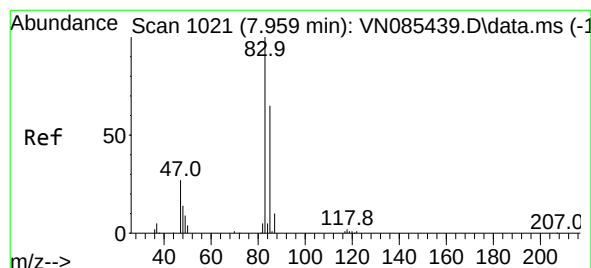
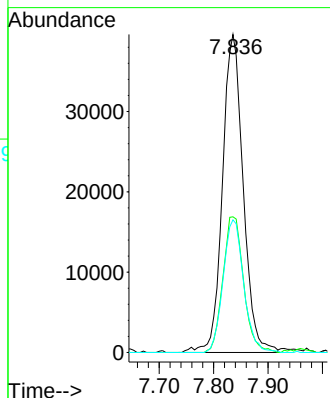
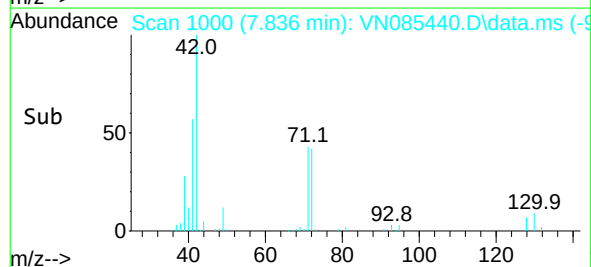
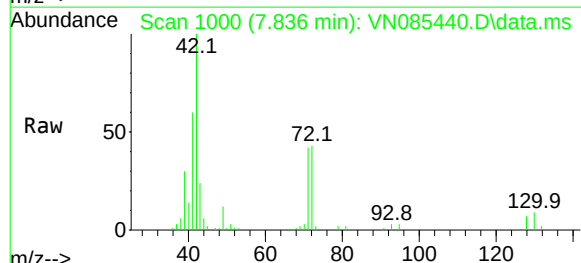
71 41.4 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 20.374 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085440.D

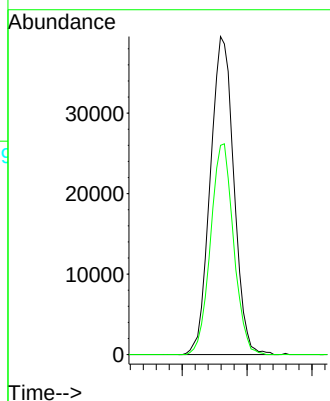
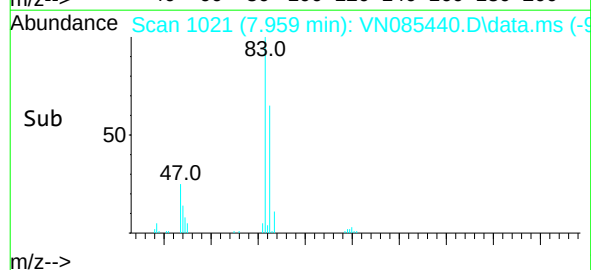
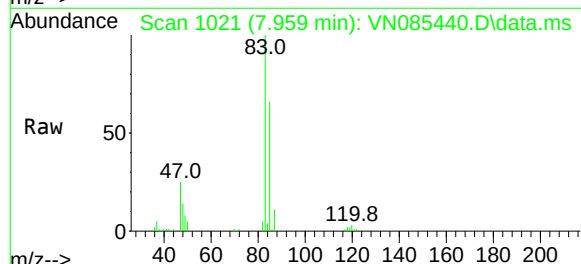
Acq: 14 Jan 2025 15:43

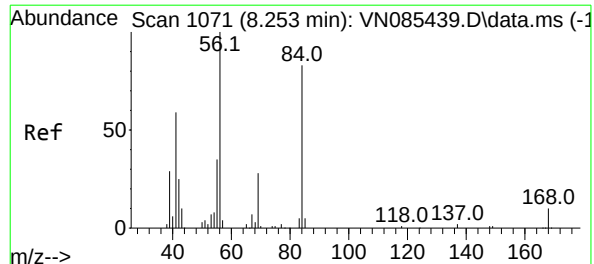
Tgt Ion: 83 Resp: 99655

Ion Ratio Lower Upper

83 100

85 65.8 51.8 77.6





#31

Cyclohexane

Concen: 20.173 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 82980

Ion Ratio Lower Upper

56 100

69 31.2 22.2 33.4

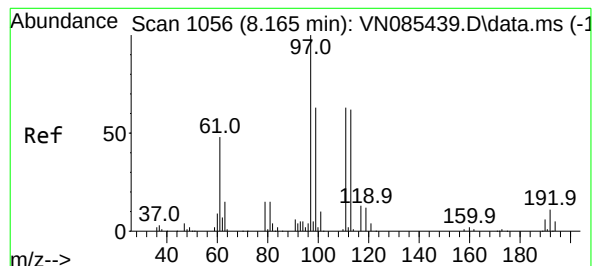
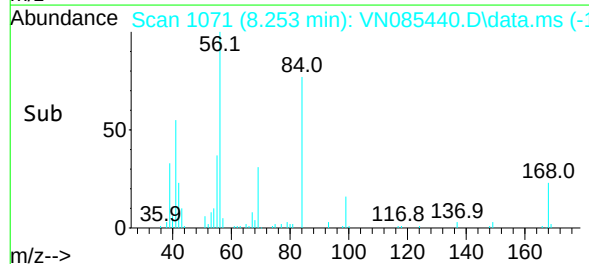
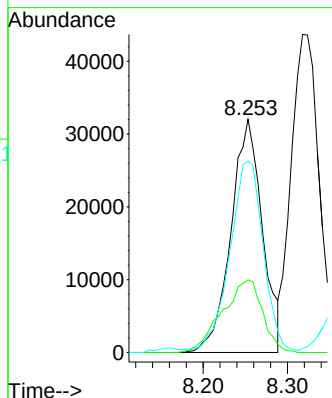
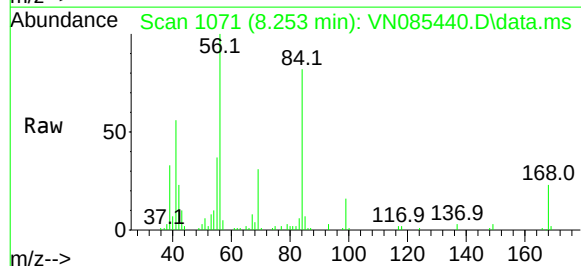
84 80.8 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 20.431 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

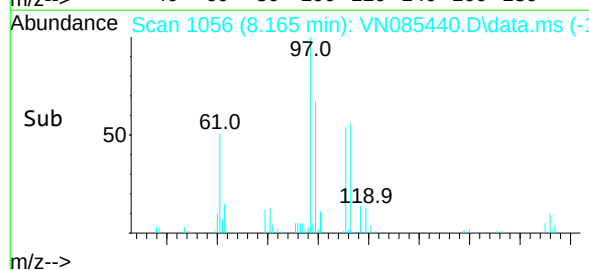
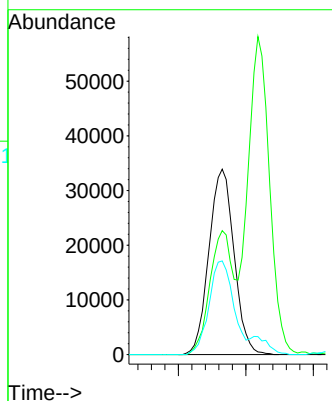
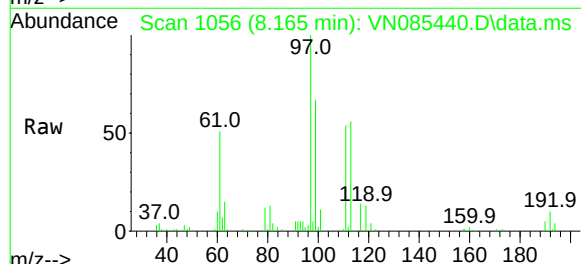
Tgt Ion: 97 Resp: 87659

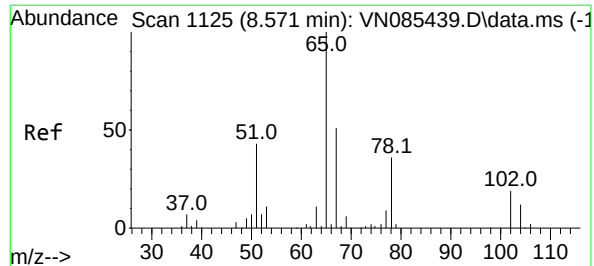
Ion Ratio Lower Upper

97 100

99 64.2 49.8 74.6

61 50.3 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 18.694 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 60593

Ion Ratio Lower Upper

65 100

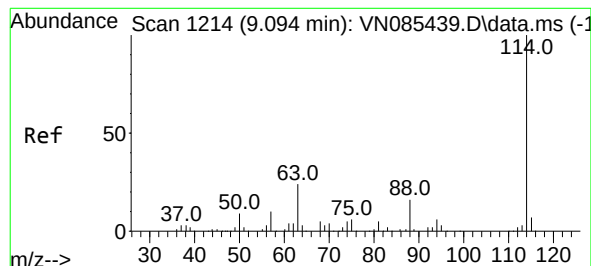
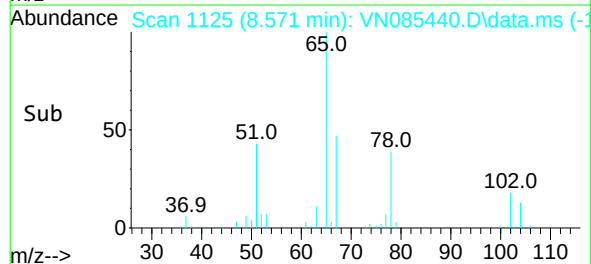
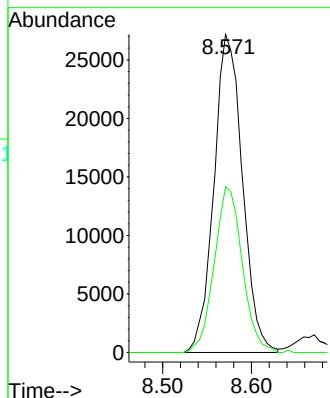
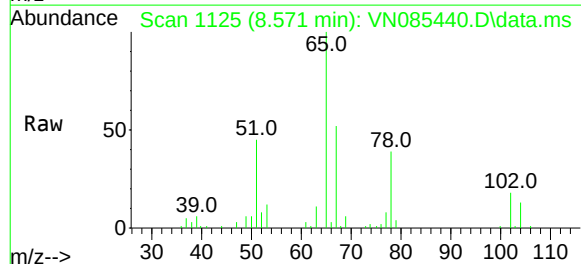
67 51.2 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

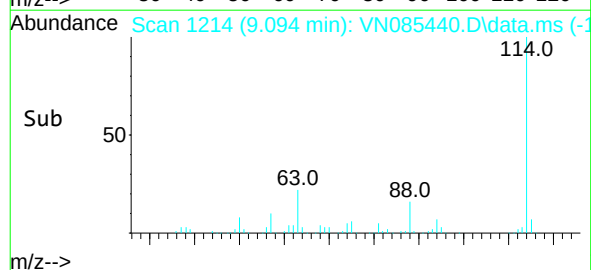
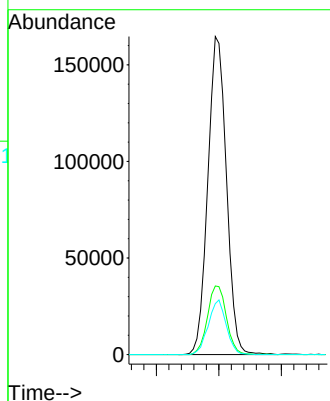
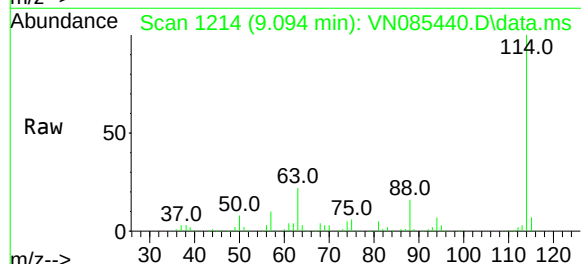
Tgt Ion:114 Resp: 340593

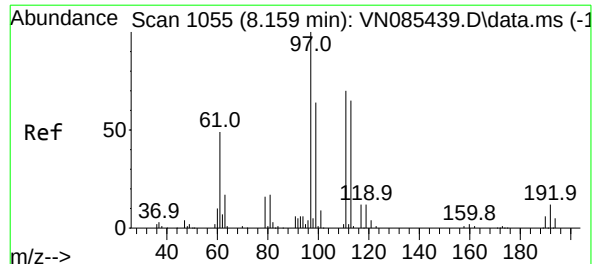
Ion Ratio Lower Upper

114 100

63 21.6 0.0 47.6

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 19.322 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 113 Resp: 45655

Ion Ratio Lower Upper

113 100

111 100.6 82.7 124.1

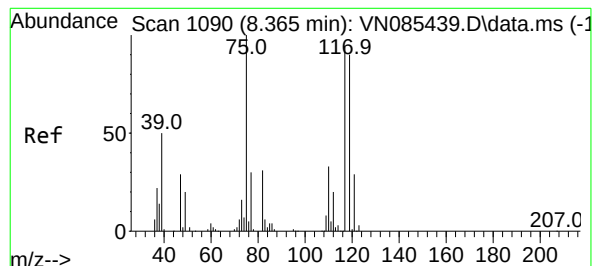
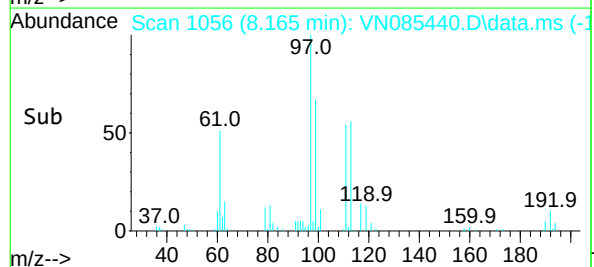
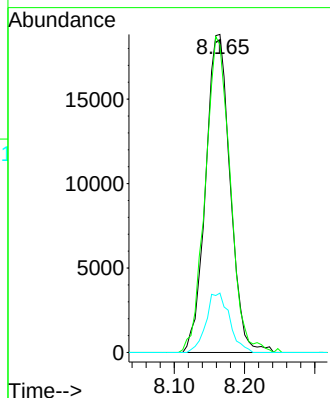
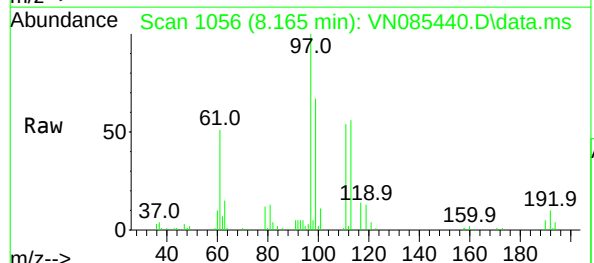
192 17.9 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 20.490 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

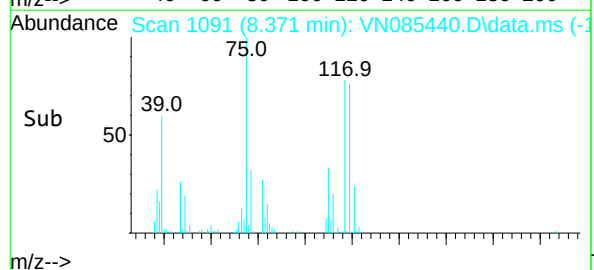
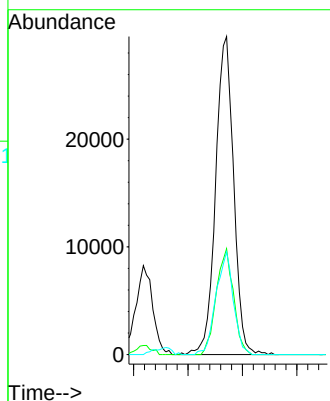
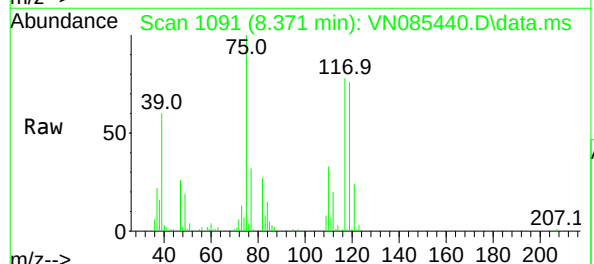
Tgt Ion: 75 Resp: 67949

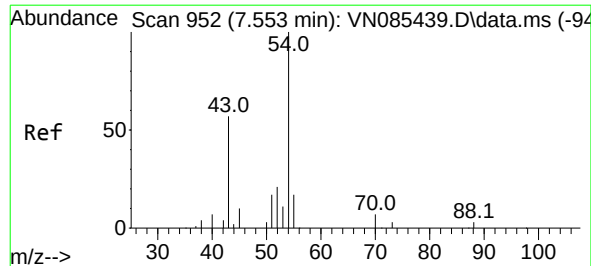
Ion Ratio Lower Upper

75 100

110 31.8 16.5 49.5

77 31.1 24.4 36.6





#37

Ethyl Acetate

Concen: 19.850 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

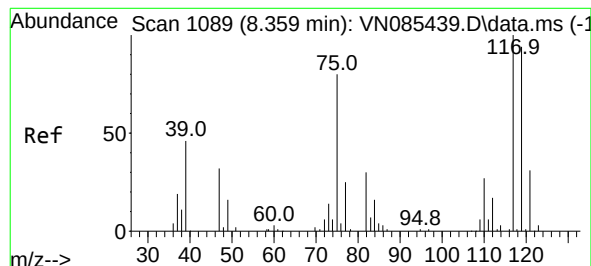
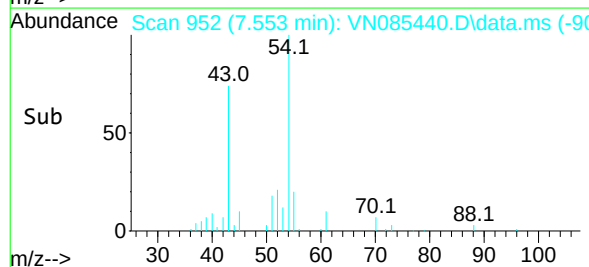
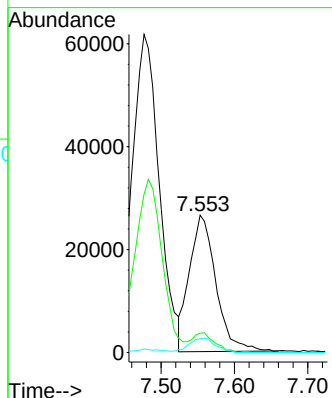
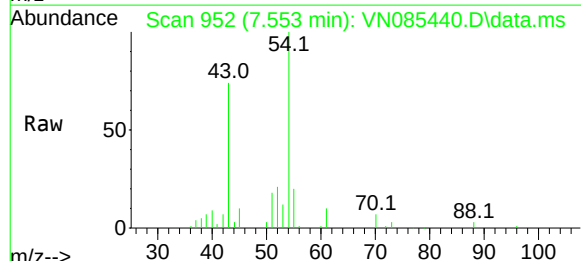
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	66443
Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.6	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 20.767 ug/l

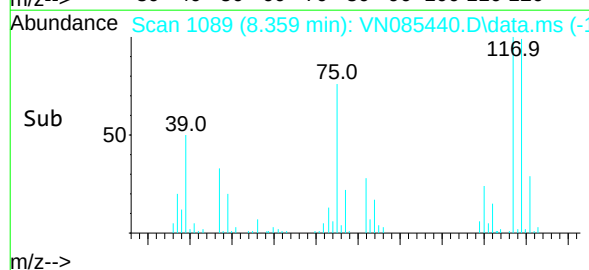
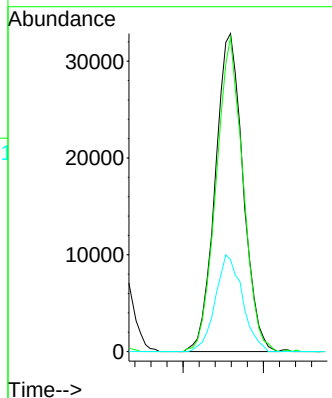
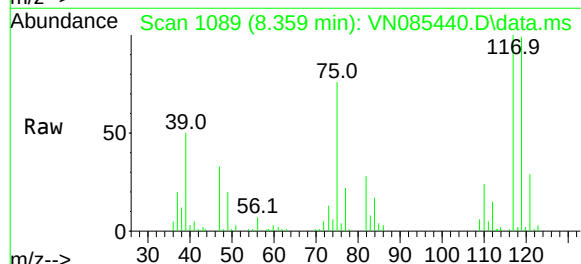
RT: 8.359 min Scan# 1089

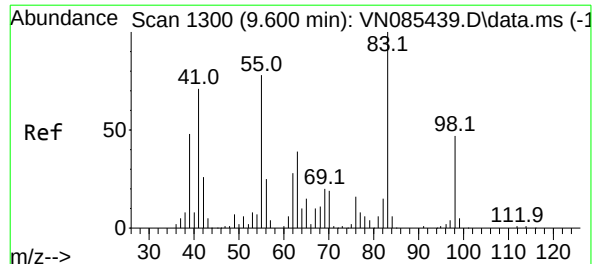
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	117	Resp:	78842
Ion	Ratio	Lower	Upper
117	100		
119	98.9	75.4	113.2
121	28.9	24.6	37.0





#39

Methylcyclohexane

Concen: 20.862 ug/l

RT: 9.594 min Scan# 12

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

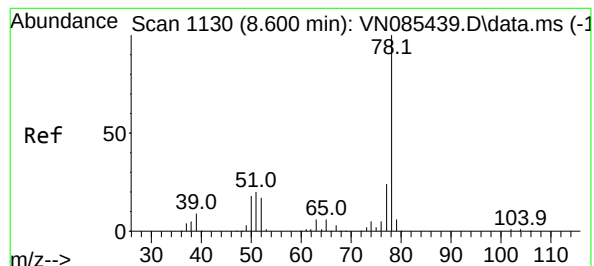
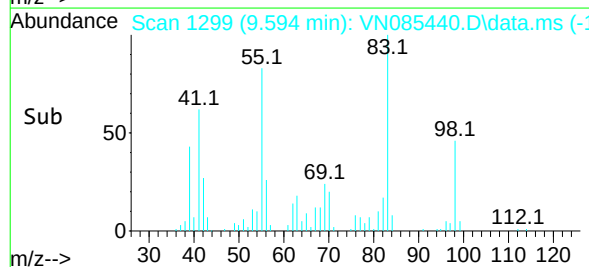
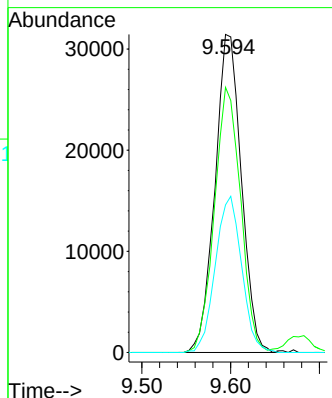
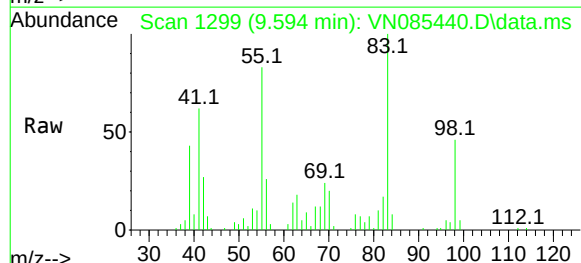
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	65012
Ion	Ratio	Lower	Upper
83	100		
55	83.4	62.6	94.0
98	46.4	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 20.873 ug/l

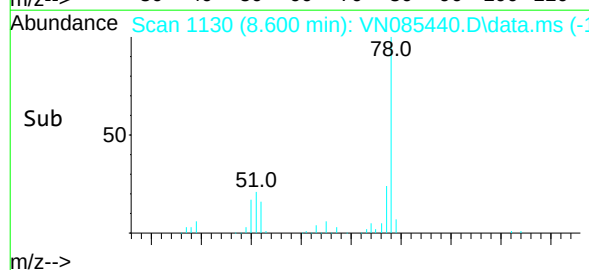
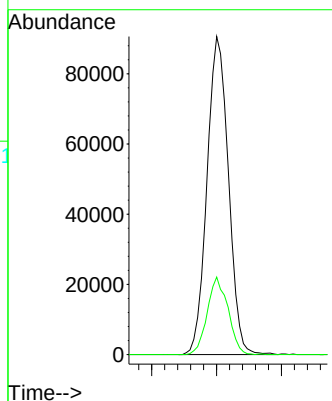
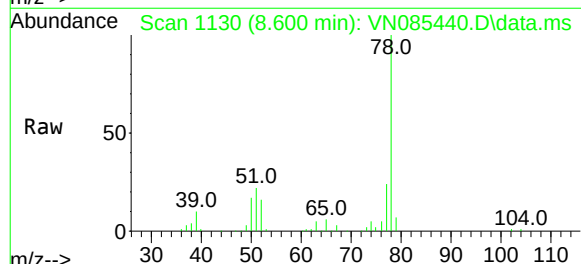
RT: 8.600 min Scan# 1130

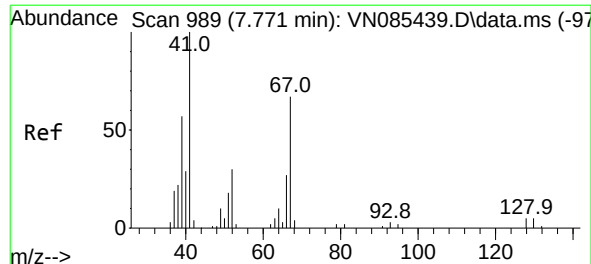
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	78	Resp:	207985
Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6





#41

Methacrylonitrile

Concen: 21.004 ug/l

RT: 7.771 min Scan# 989

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 41 Resp: 36578

Ion Ratio Lower Upper

41 100

39 56.6 46.0 69.0

67 70.3 57.4 86.2

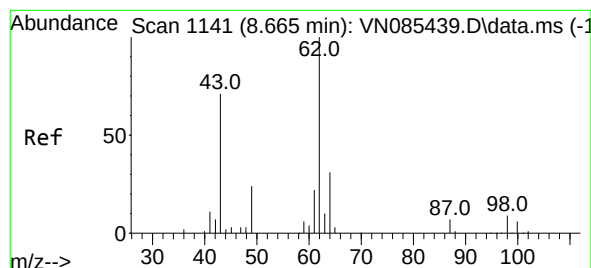
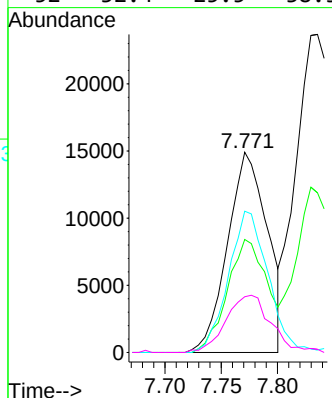
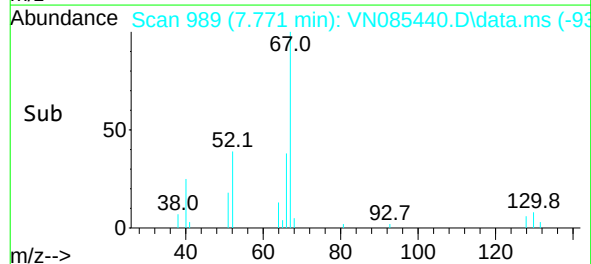
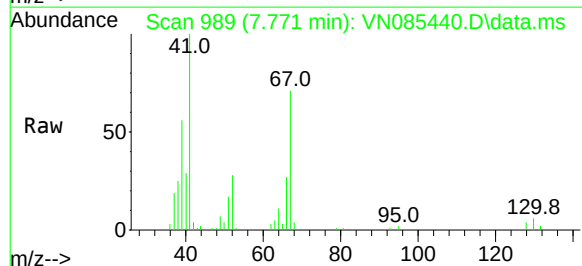
52 32.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 20.891 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085440.D

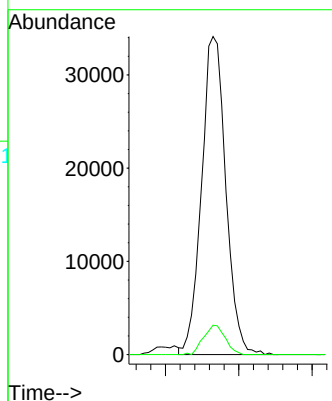
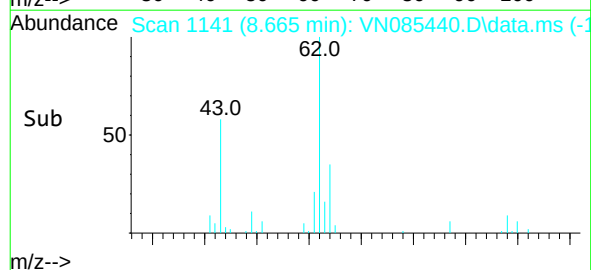
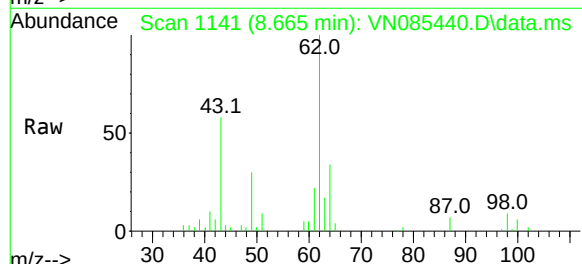
Acq: 14 Jan 2025 15:43

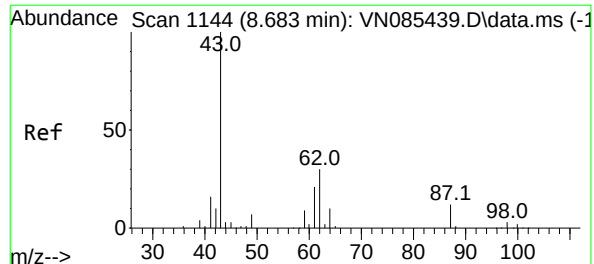
Tgt Ion: 62 Resp: 78402

Ion Ratio Lower Upper

62 100

98 8.3 0.0 17.0





#43

Isopropyl Acetate

Concen: 20.347 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

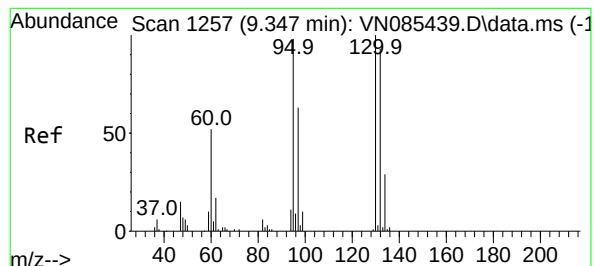
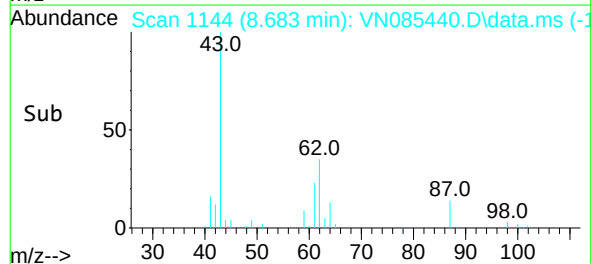
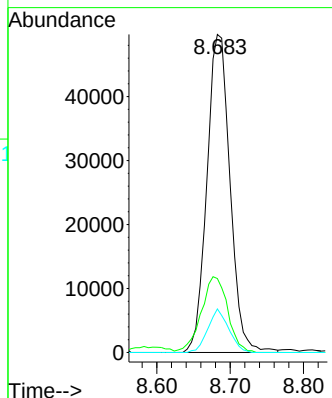
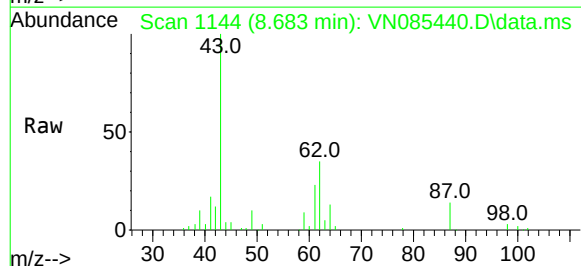
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	109131
Ion	Ratio	Lower	Upper
43	100		
61	27.2	20.7	31.1
87	12.3	9.8	14.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 20.699 ug/l

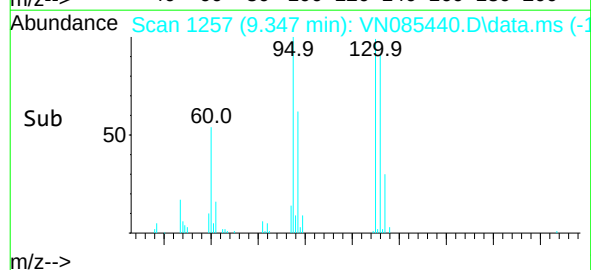
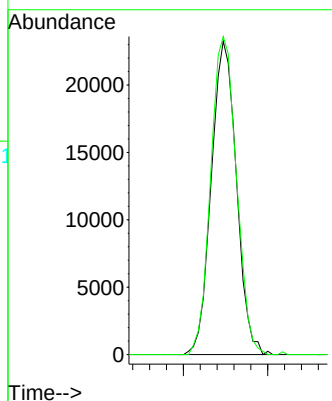
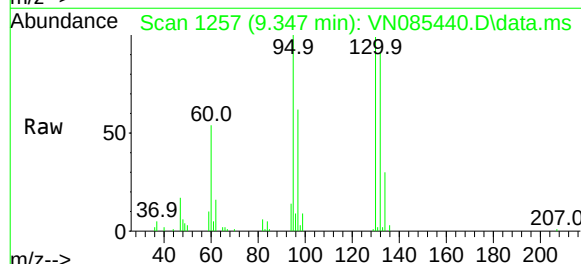
RT: 9.347 min Scan# 1257

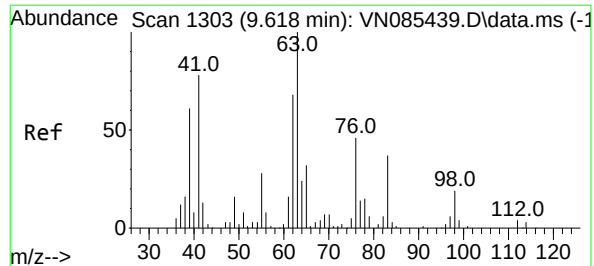
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	130	Resp:	48009
Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	195.8





#45

1,2-Dichloropropane

Concen: 20.758 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 63 Resp: 52833

Ion Ratio Lower Upper

63 100

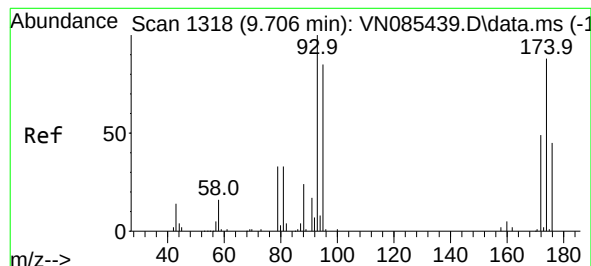
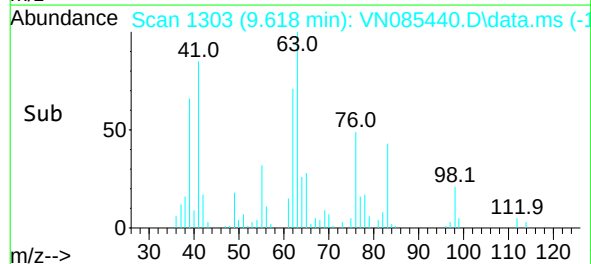
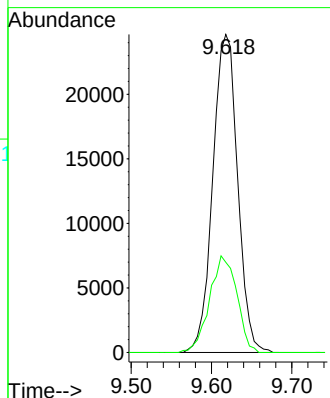
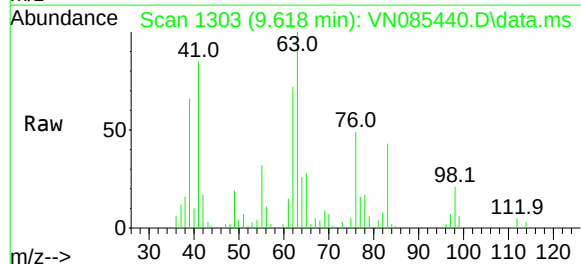
65 28.3 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 20.540 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

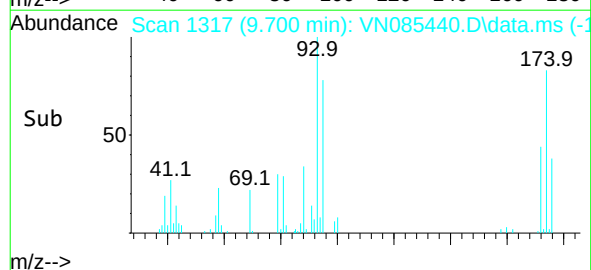
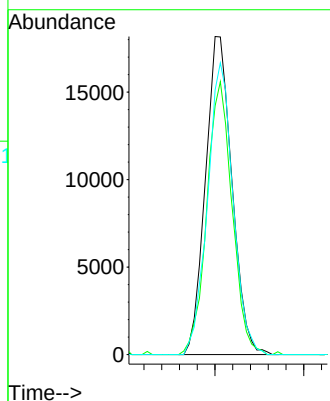
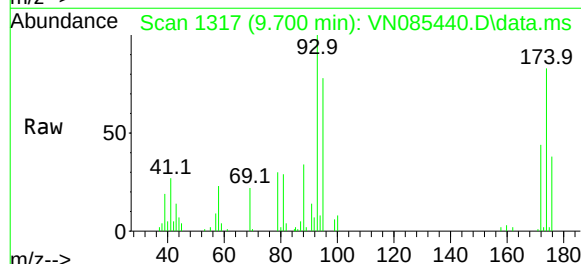
Tgt Ion: 93 Resp: 37721

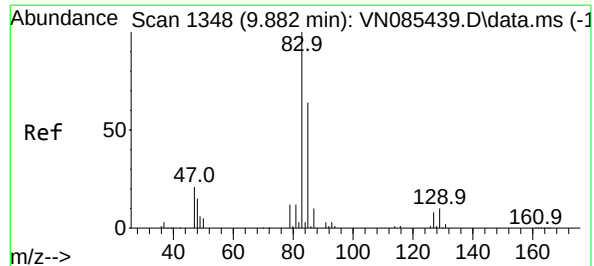
Ion Ratio Lower Upper

93 100

95 82.0 64.7 97.1

174 88.4 69.0 103.4





#47

Bromodichloromethane

Concen: 21.093 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

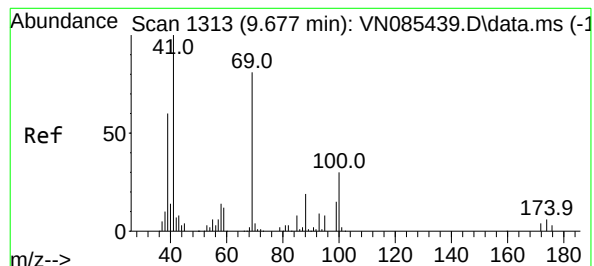
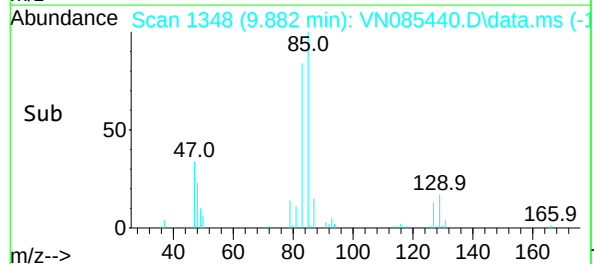
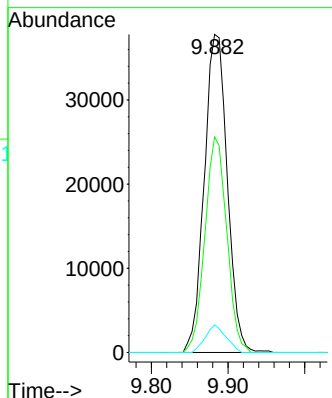
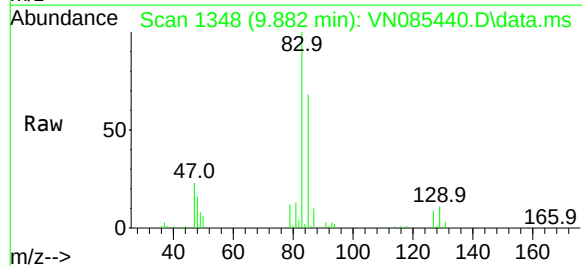
ClientSampleId :

VSTDICC020

Tgt Ion:	83	Resp:	78918
Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.2	76.8
127	8.6	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 20.808 ug/l

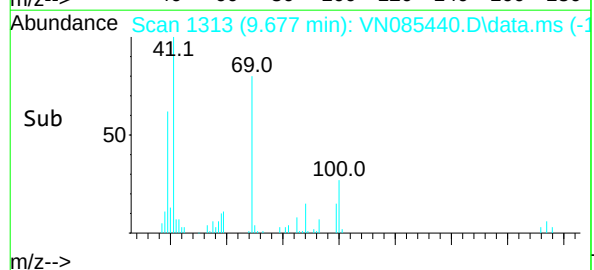
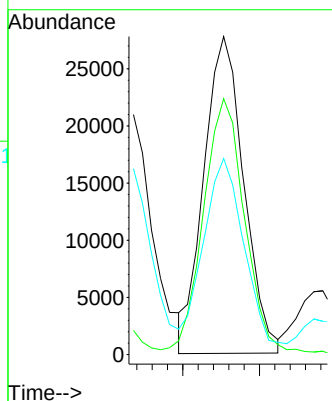
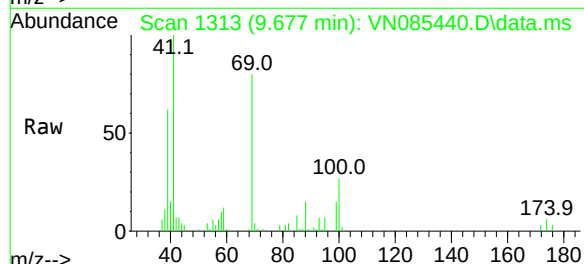
RT: 9.677 min Scan# 1313

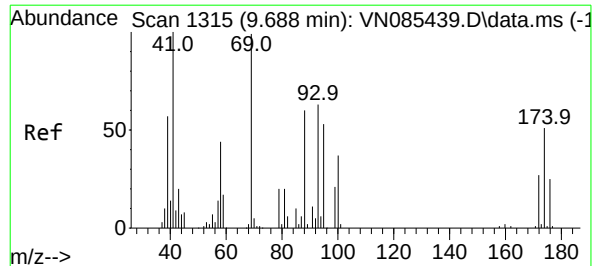
Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	41	Resp:	50224
Ion	Ratio	Lower	Upper
41	100		
69	84.3	64.7	97.1
39	64.2	49.0	73.6





#49

1,4-Dioxane

Concen: 421.686 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 17140

Ion Ratio Lower Upper

88 100

43 34.9 26.6 39.8

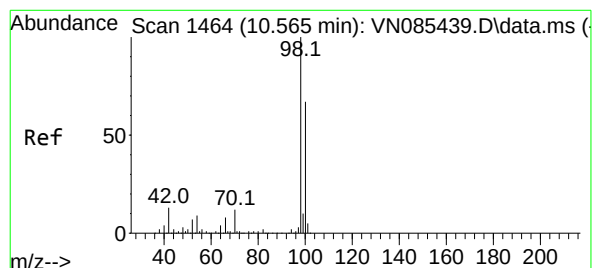
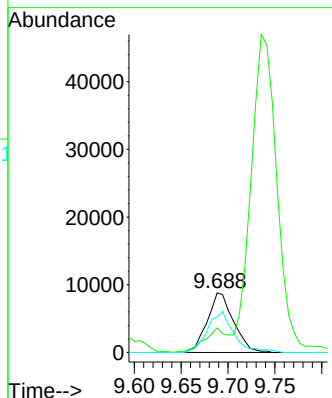
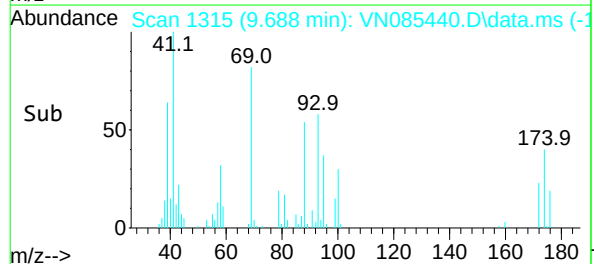
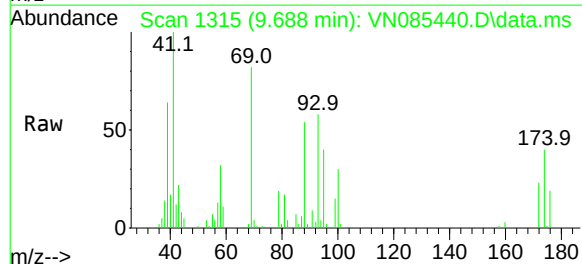
58 69.0 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 19.581 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085440.D

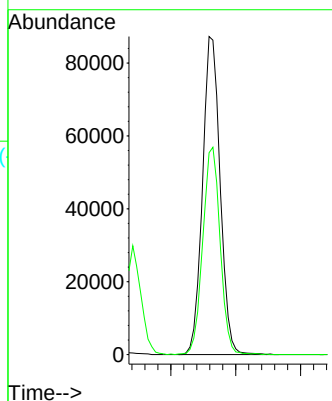
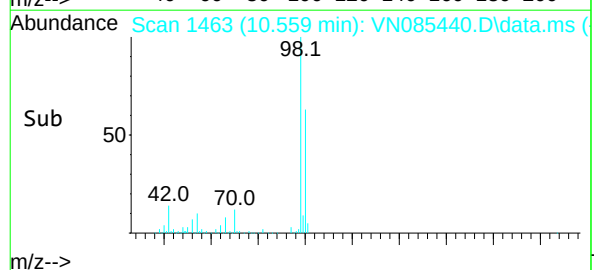
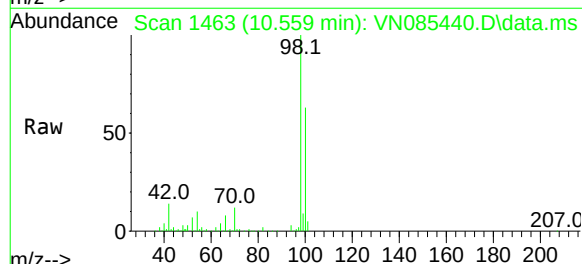
Acq: 14 Jan 2025 15:43

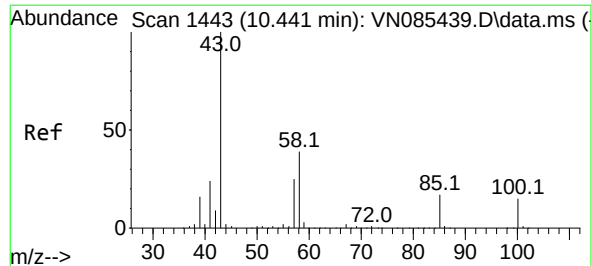
Tgt Ion: 98 Resp: 164391

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.4





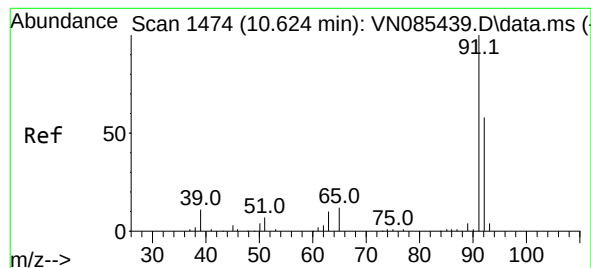
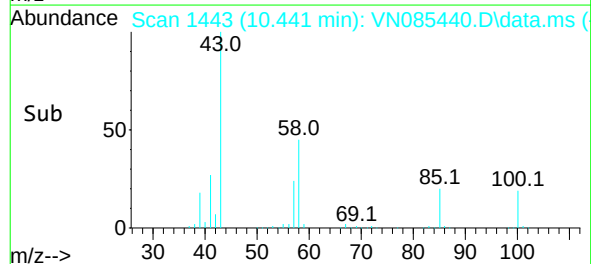
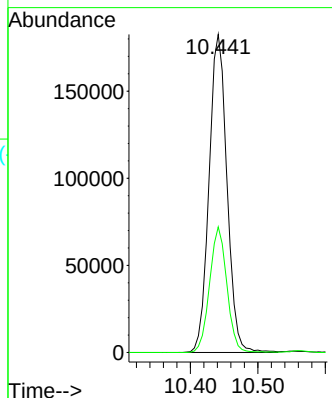
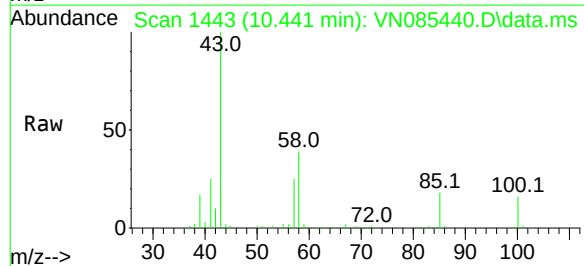
#51
4-Methyl-2-Pentanone
Concen: 108.249 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 336911
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7

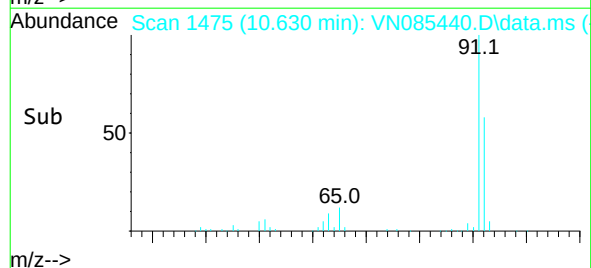
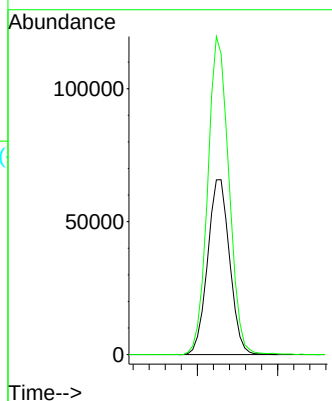
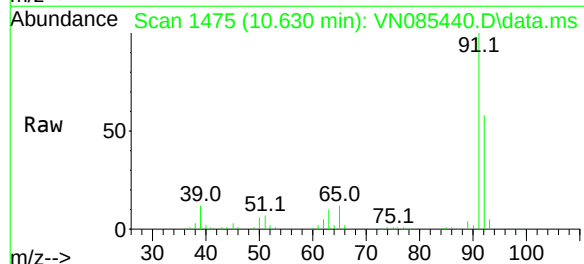
Manual Integrations
APPROVED

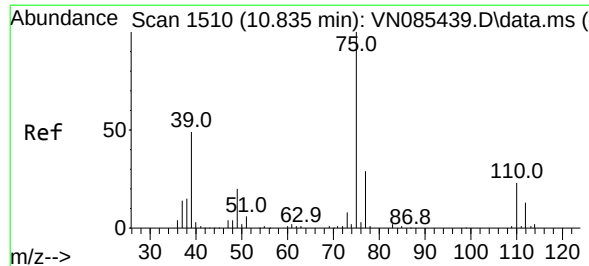
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 21.680 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 92 Resp: 125172
Ion Ratio Lower Upper
92 100
91 175.1 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 20.965 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 74129

Ion Ratio Lower Upper

75 100

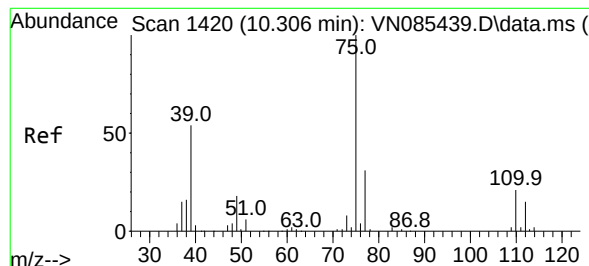
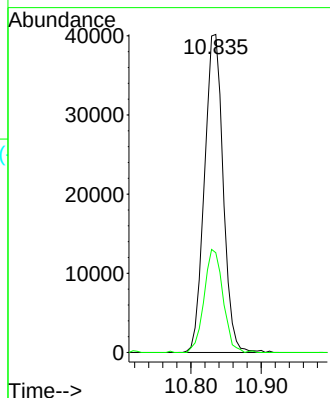
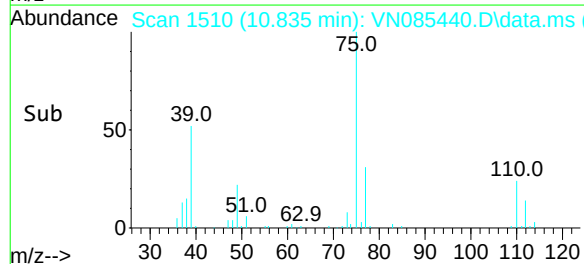
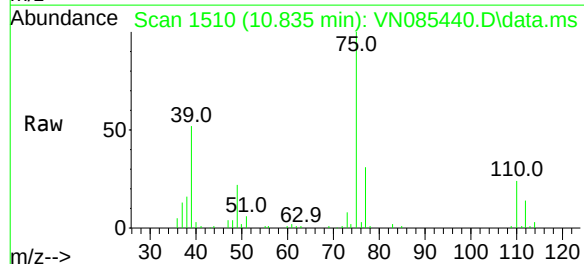
77 31.4 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 21.684 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

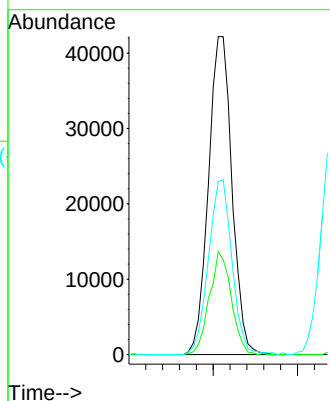
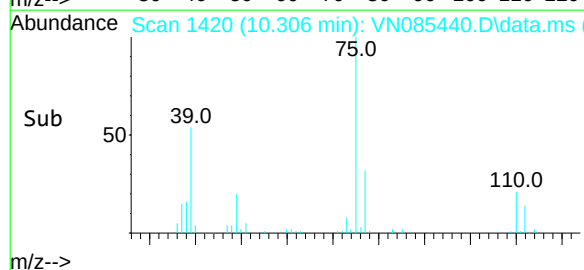
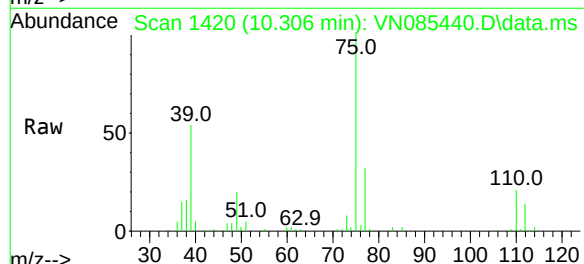
Tgt Ion: 75 Resp: 81897

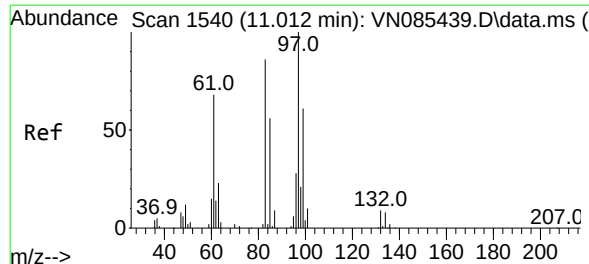
Ion Ratio Lower Upper

75 100

77 32.4 25.0 37.4

39 54.4 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 21.025 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 48039

Ion Ratio Lower Upper

97 100

83 84.1 69.0 103.6

85 54.6 44.6 66.8

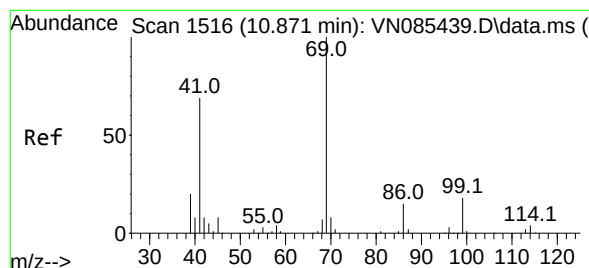
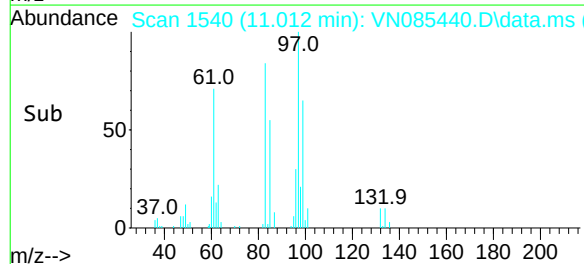
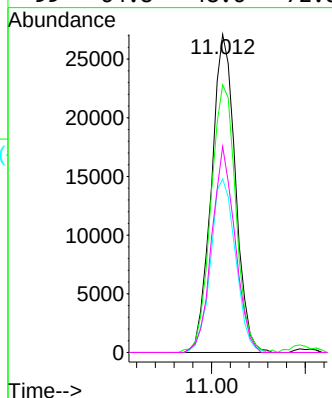
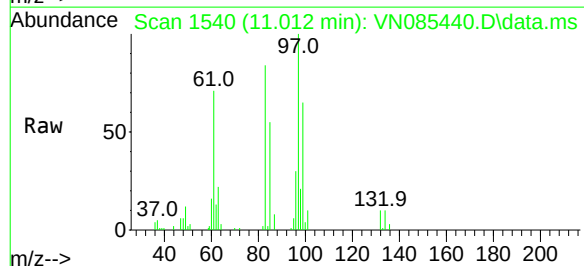
99 64.8 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 19.649 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

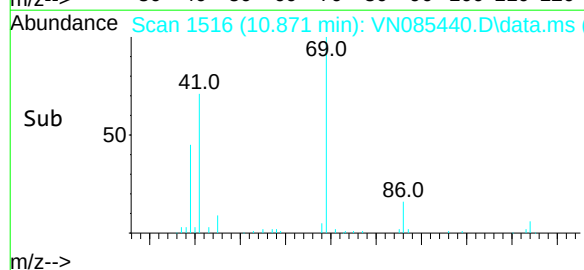
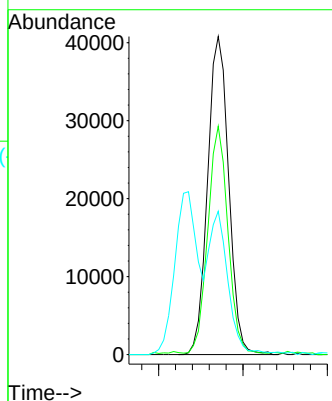
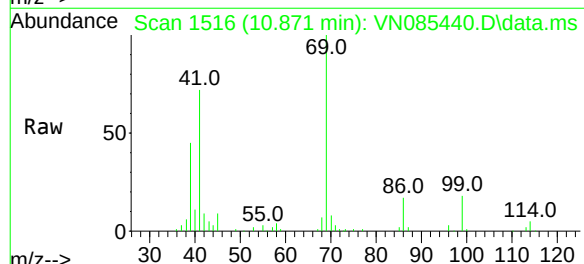
Tgt Ion: 69 Resp: 70934

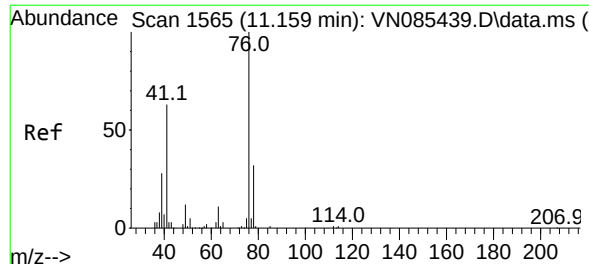
Ion Ratio Lower Upper

69 100

41 67.6 54.6 82.0

39 41.7 32.4 48.6





#57

1,3-Dichloropropane

Concen: 21.196 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 84210

Ion Ratio Lower Upper

76 100

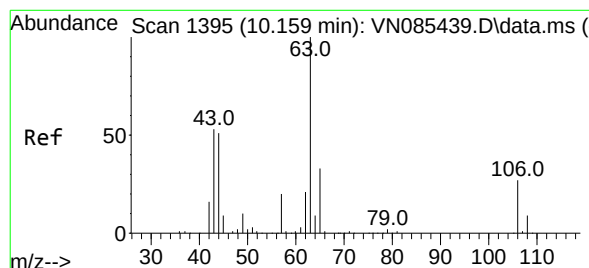
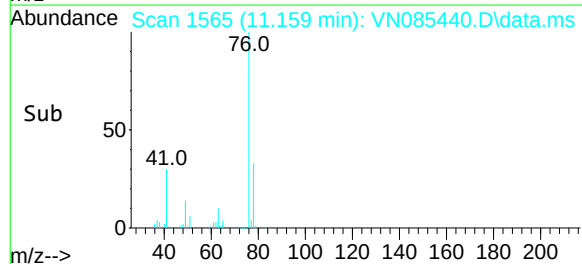
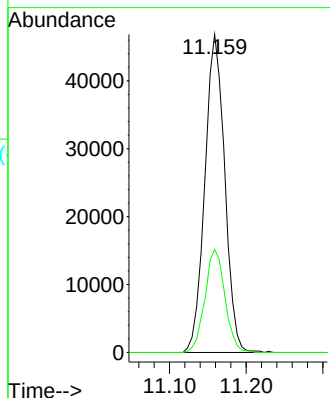
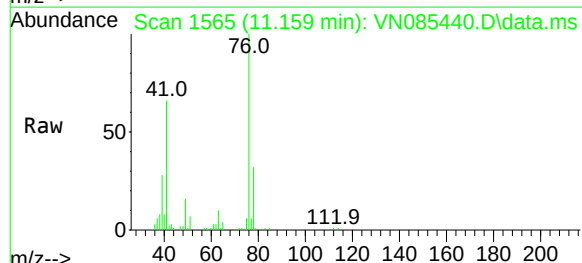
78 32.7 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 105.991 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085440.D

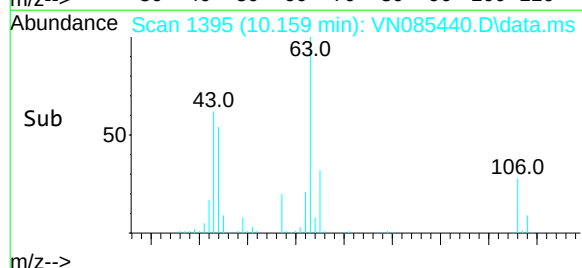
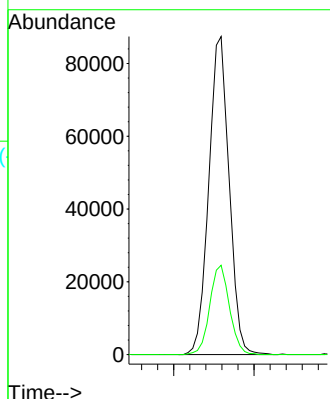
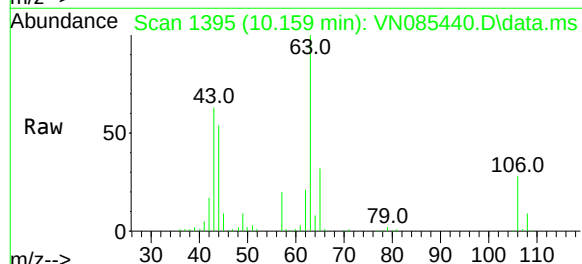
Acq: 14 Jan 2025 15:43

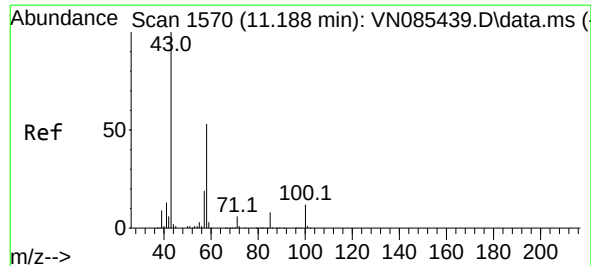
Tgt Ion: 63 Resp: 153681

Ion Ratio Lower Upper

63 100

106 27.2 21.6 32.4





#59

2-Hexanone

Concen: 109.863 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 240595

Ion Ratio Lower Upper

43 100

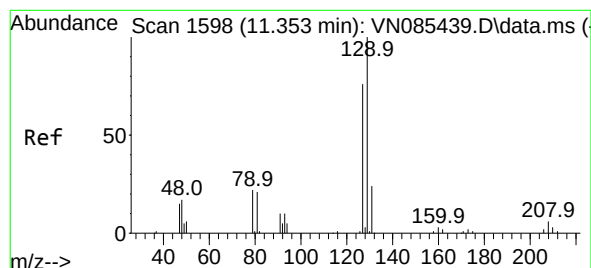
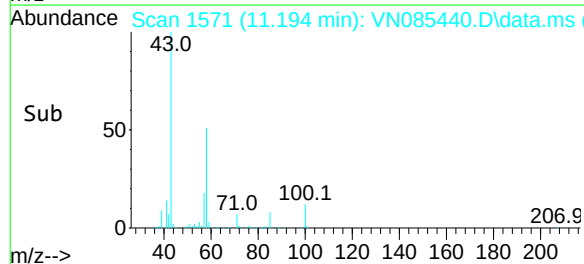
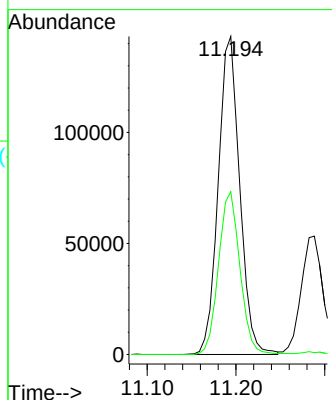
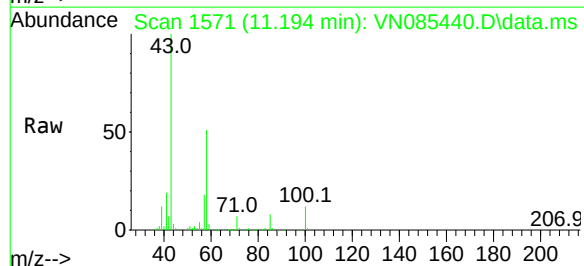
58 51.1 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 20.326 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085440.D

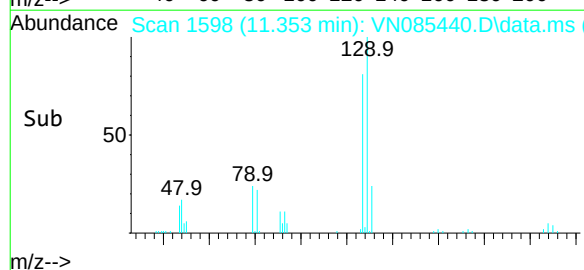
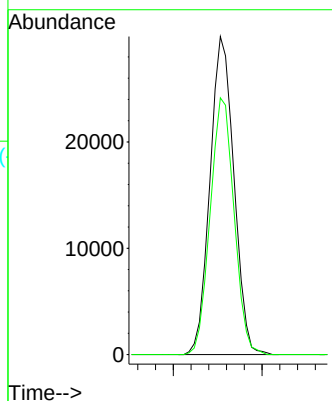
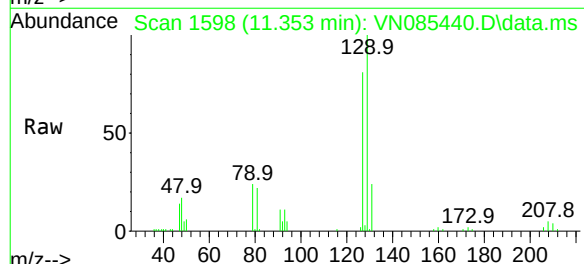
Acq: 14 Jan 2025 15:43

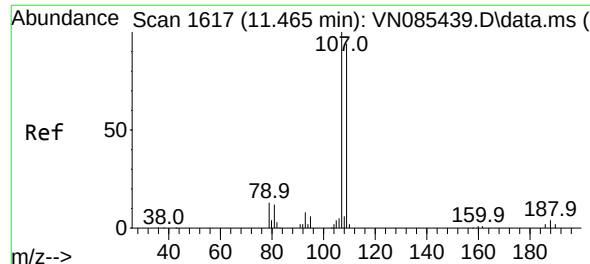
Tgt Ion:129 Resp: 56069

Ion Ratio Lower Upper

129 100

127 80.4 38.6 115.8





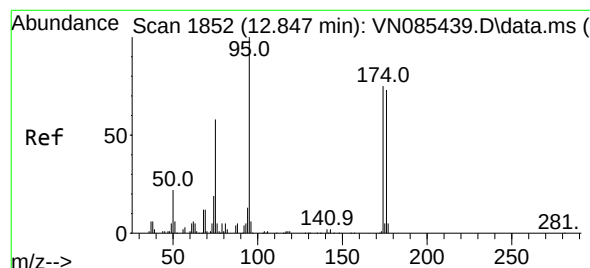
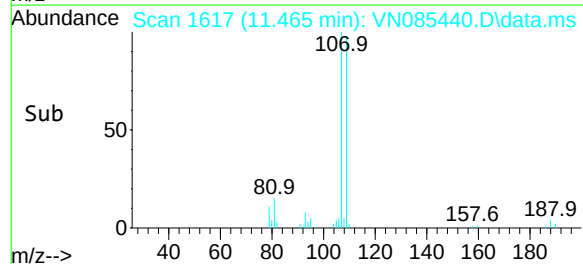
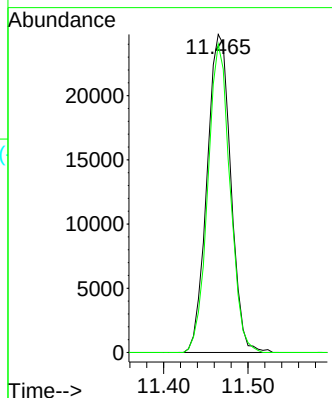
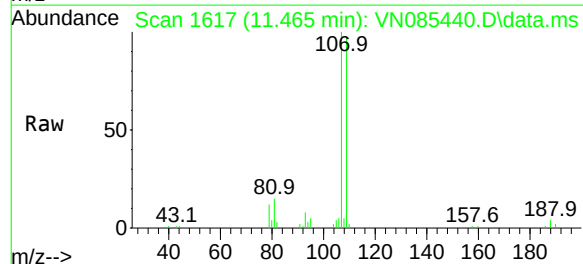
#61
1,2-Dibromoethane
Concen: 21.309 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 107 Resp: 48465
Ion Ratio Lower Upper
107 100
109 90.6 75.9 113.9

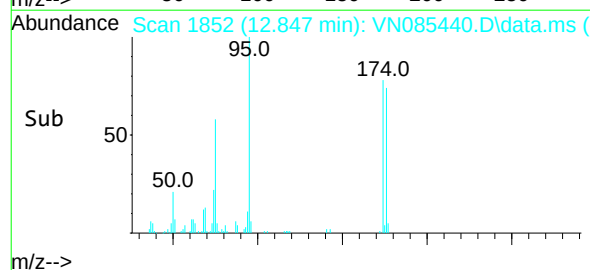
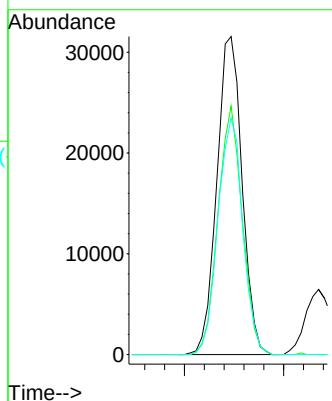
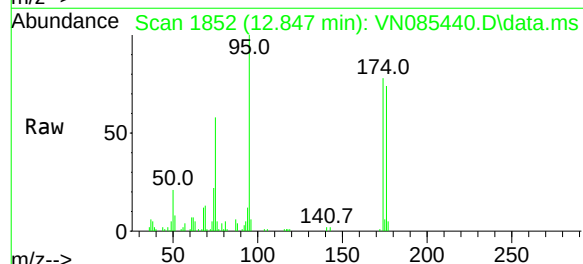
Manual Integrations
APPROVED

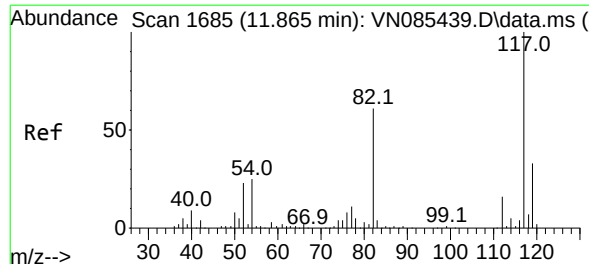
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 19.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 95 Resp: 55798
Ion Ratio Lower Upper
95 100
174 75.2 0.0 145.0
176 73.2 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:117 Resp: 296298

Ion Ratio Lower Upper

117 100

82 59.3 48.6 72.8

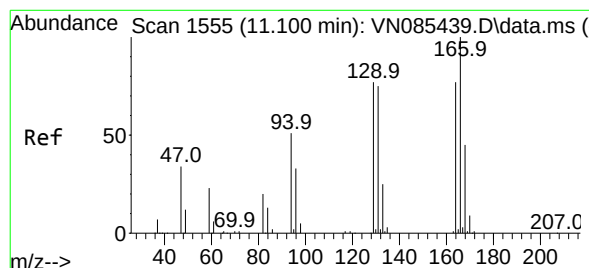
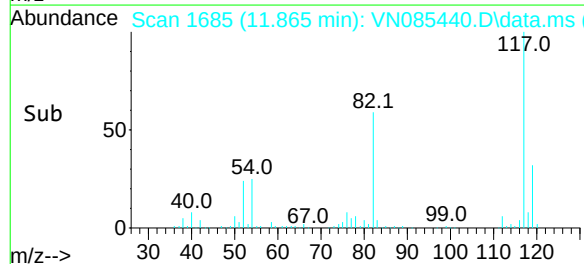
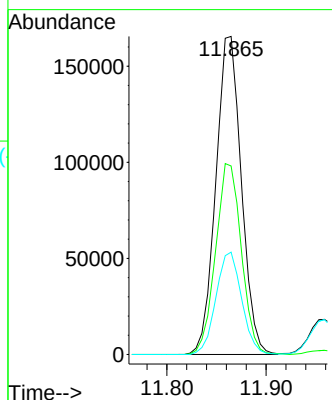
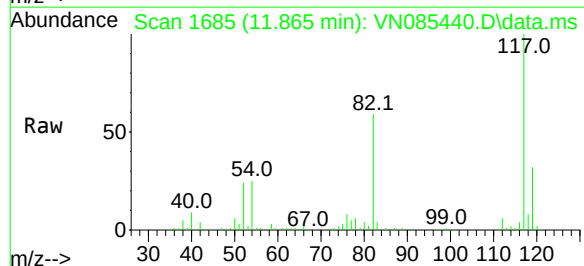
119 32.2 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 21.408 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:164 Resp: 43243

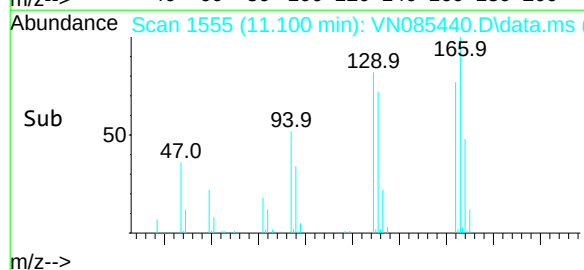
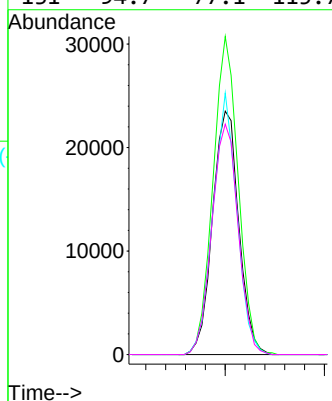
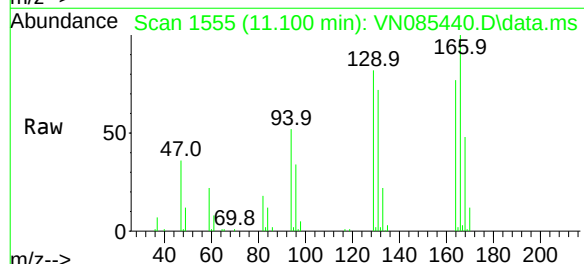
Ion Ratio Lower Upper

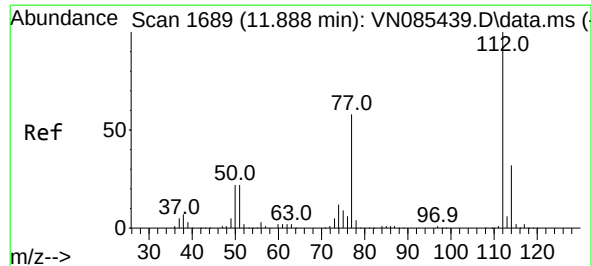
164 100

166 130.6 103.4 155.2

129 107.4 79.2 118.8

131 94.7 77.1 115.7





#65

Chlorobenzene

Concen: 21.077 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 136809

Ion Ratio Lower Upper

112 100

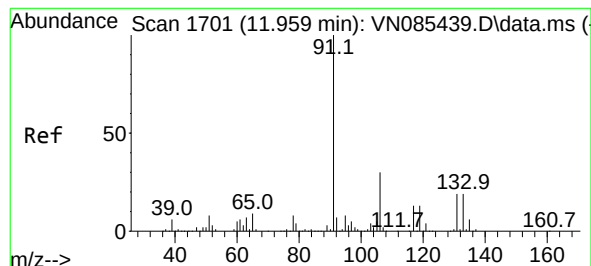
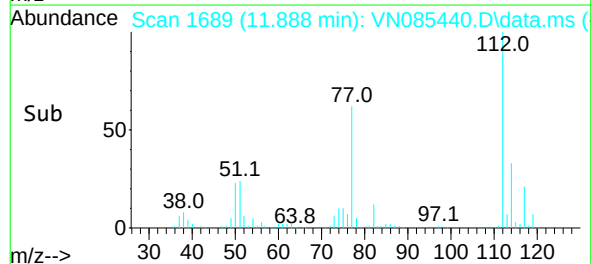
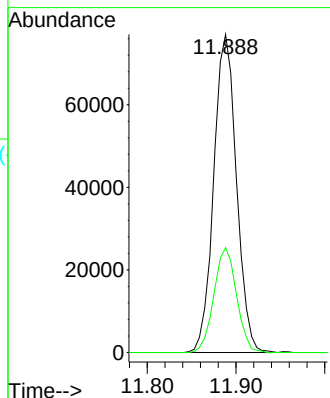
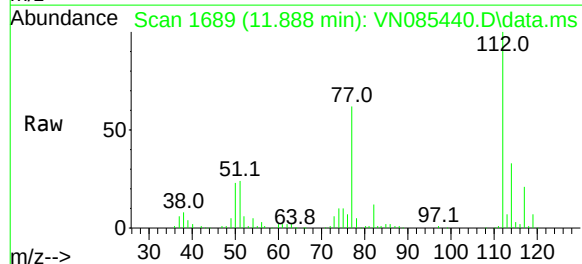
114 32.9 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.304 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

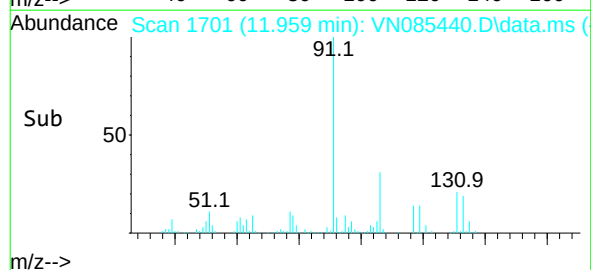
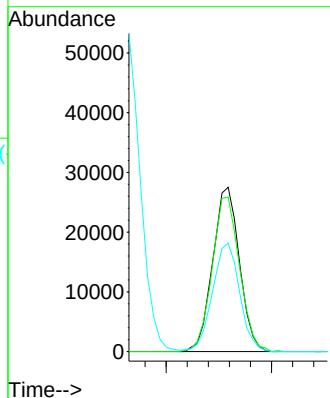
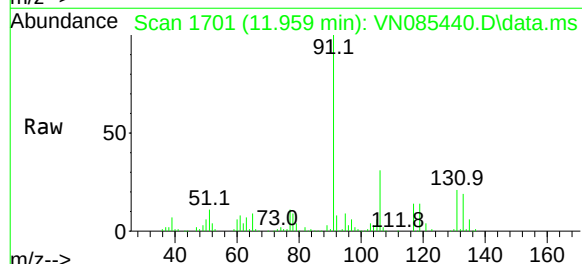
Tgt Ion:131 Resp: 48370

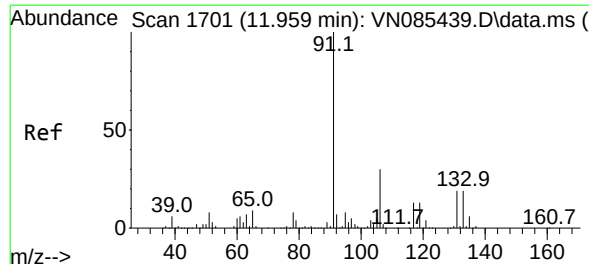
Ion Ratio Lower Upper

131 100

133 96.9 47.4 142.3

119 67.2 33.1 99.5





#67

Ethyl Benzene

Concen: 21.753 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 229978

Ion Ratio Lower Upper

91 100

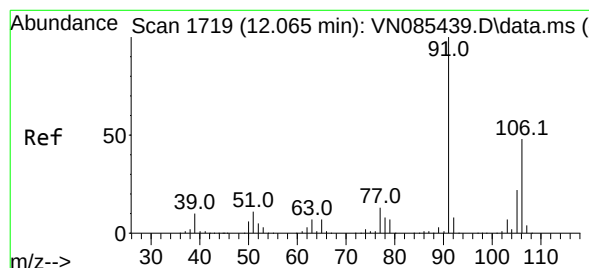
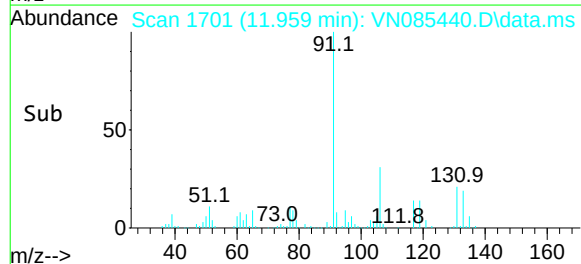
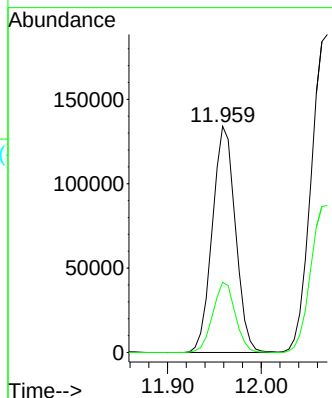
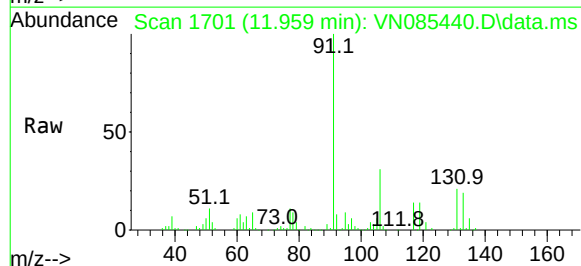
106 31.1 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 45.494 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085440.D

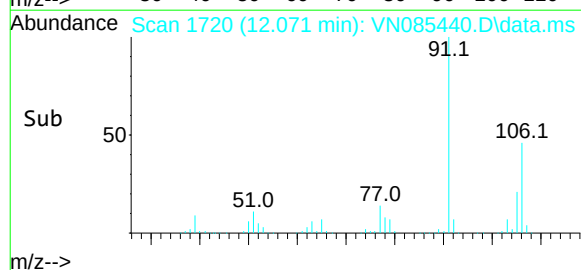
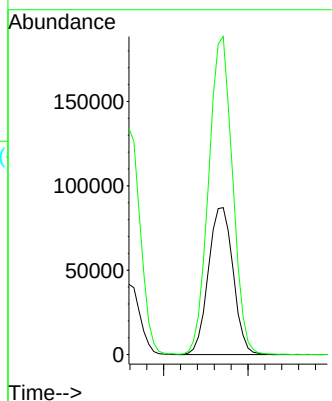
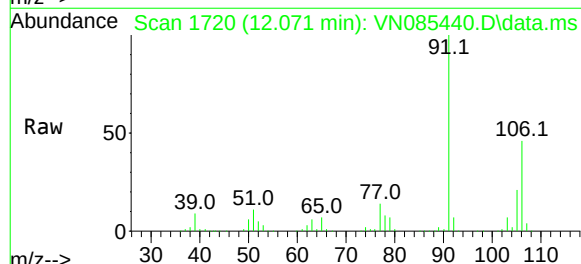
Acq: 14 Jan 2025 15:43

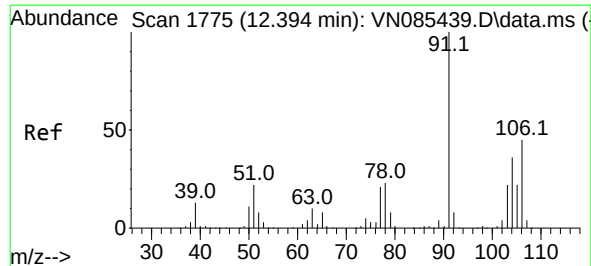
Tgt Ion:106 Resp: 177755

Ion Ratio Lower Upper

106 100

91 209.3 167.7 251.5





#69

o-Xylene

Concen: 22.643 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:106 Resp: 84548

Ion Ratio Lower Upper

106 100

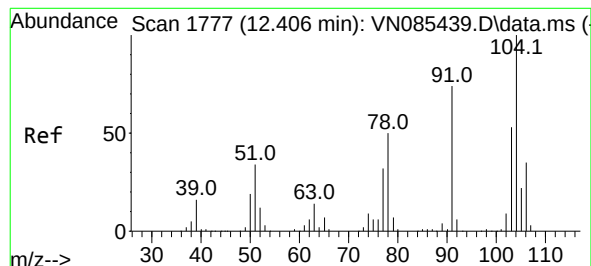
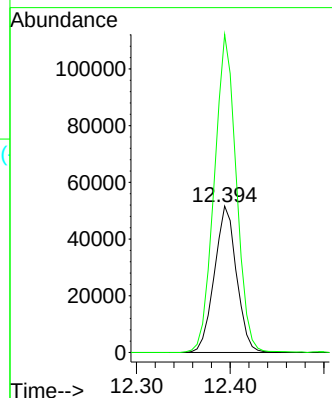
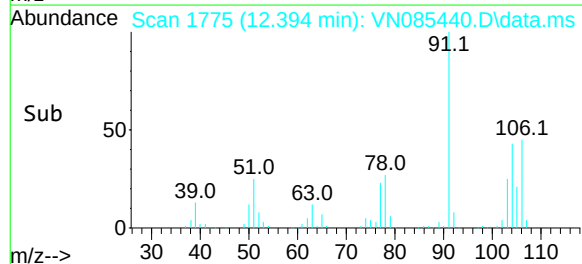
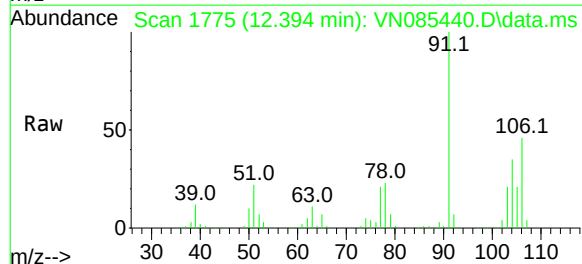
91 217.0 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 22.749 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

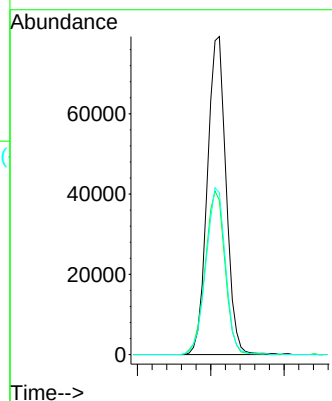
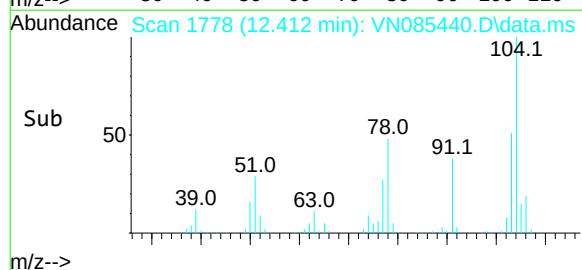
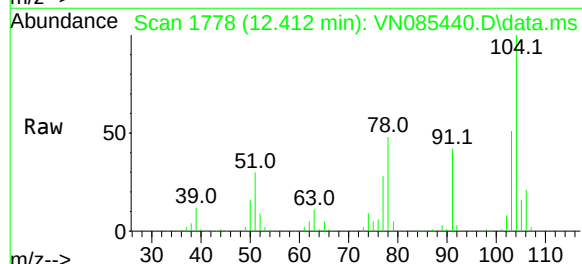
Tgt Ion:104 Resp: 140581

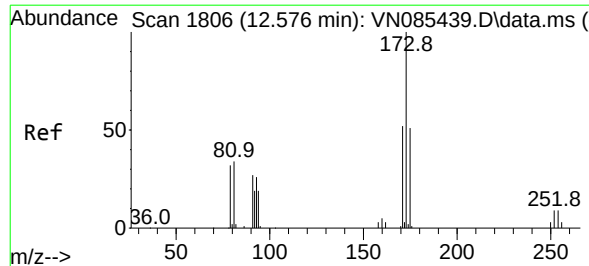
Ion Ratio Lower Upper

104 100

78 54.4 42.5 63.7

103 54.8 43.8 65.8





#71

Bromoform

Concen: 21.683 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

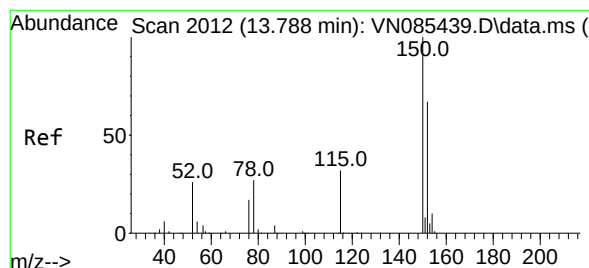
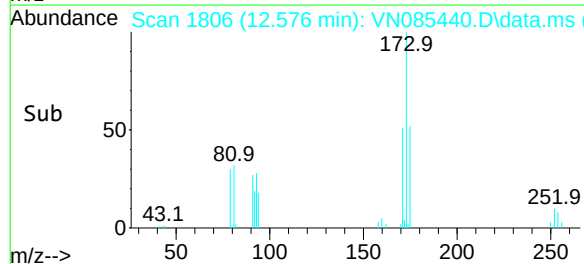
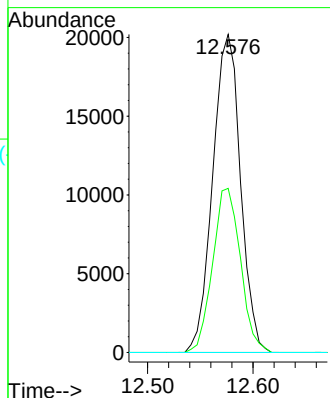
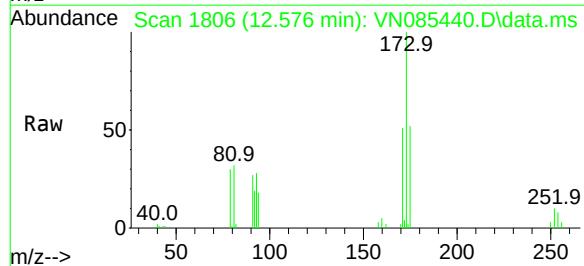
ClientSampleId :

VSTDICC020

Tgt	Ion:173	Resp:	36961
Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

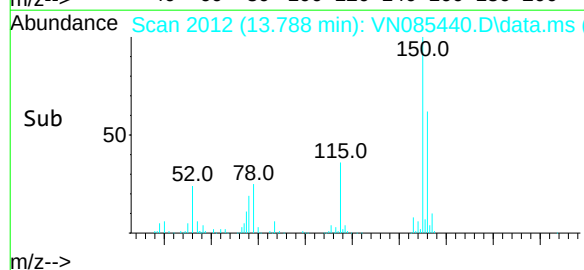
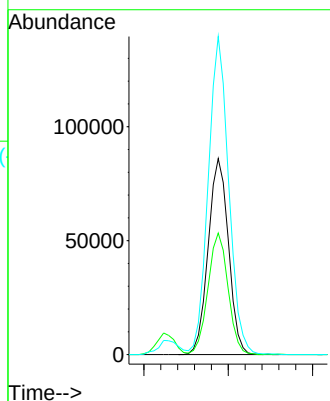
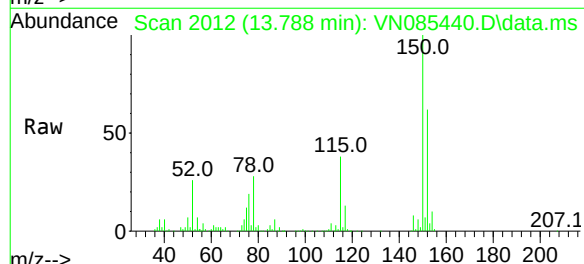
RT: 13.788 min Scan# 2012

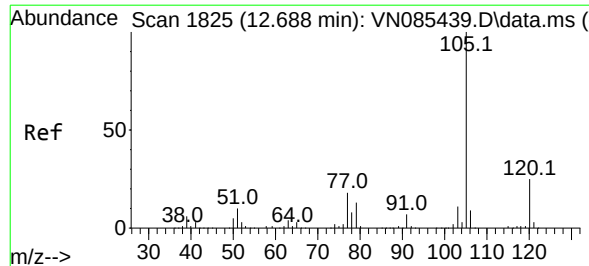
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt	Ion:152	Resp:	143526
Ion	Ratio	Lower	Upper
152	100		
115	61.4	31.1	93.3
150	163.9	0.0	343.6





#73

Isopropylbenzene

Concen: 21.819 ug/l

RT: 12.694 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 211354

Ion Ratio Lower Upper

105 100

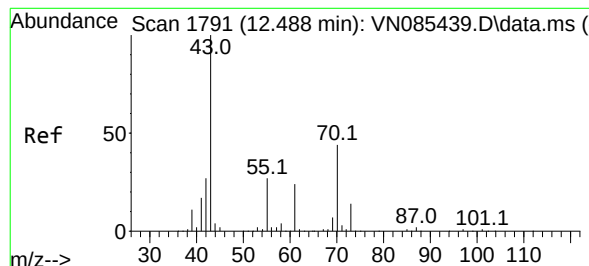
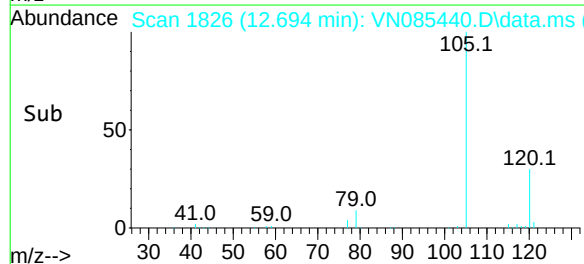
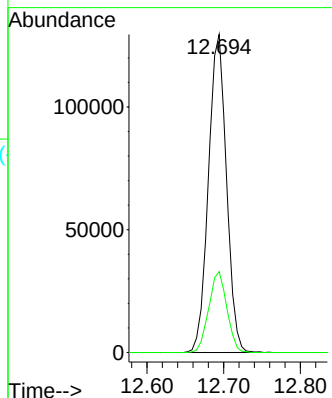
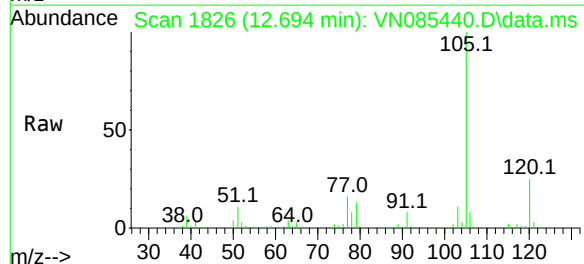
120 25.5 12.8 38.3

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 21.656 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 94292

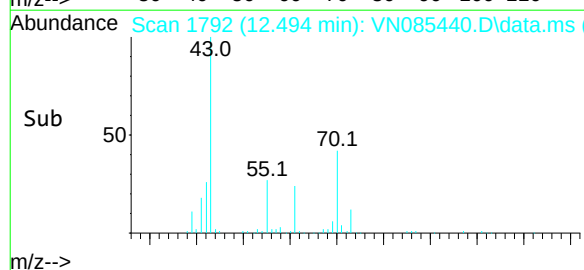
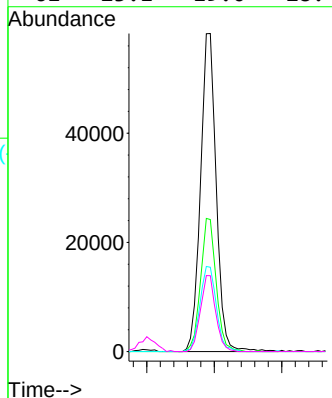
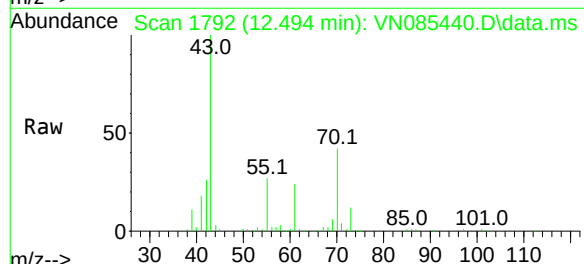
Ion Ratio Lower Upper

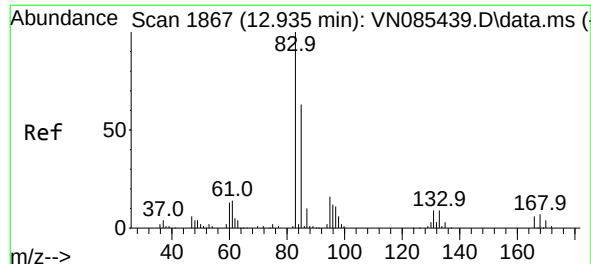
43 100

70 41.4 34.0 51.0

55 27.9 21.4 32.2

61 23.1 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.917 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

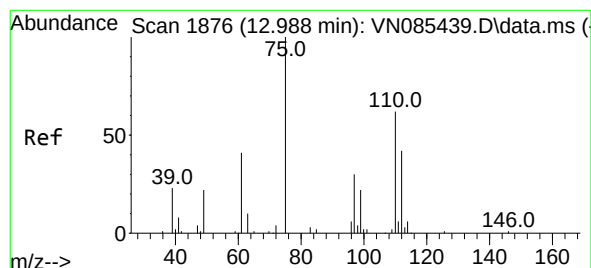
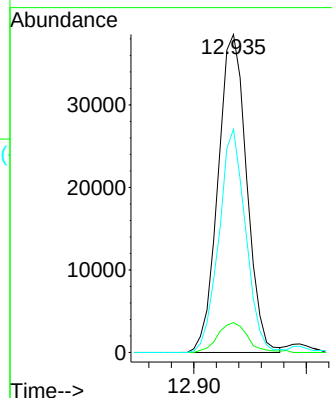
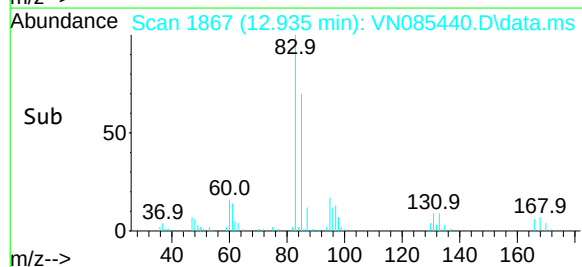
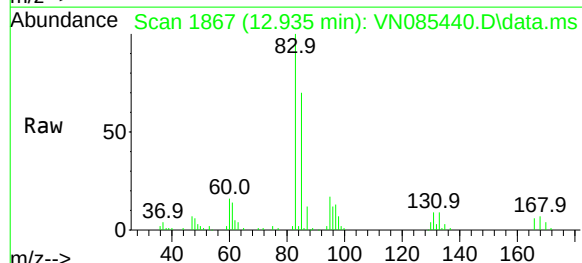
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	68151
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.5	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 22.036 ug/l m

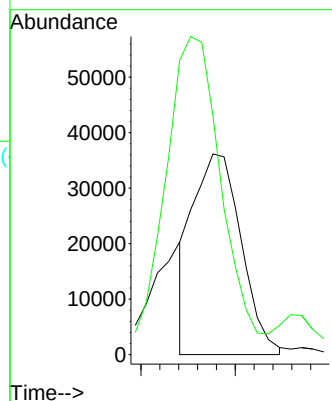
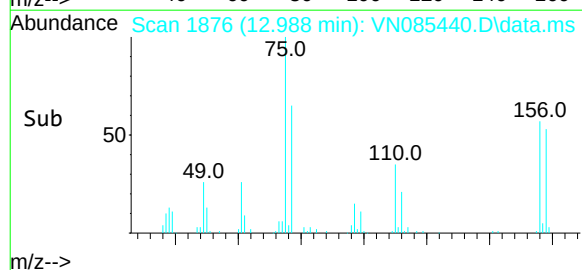
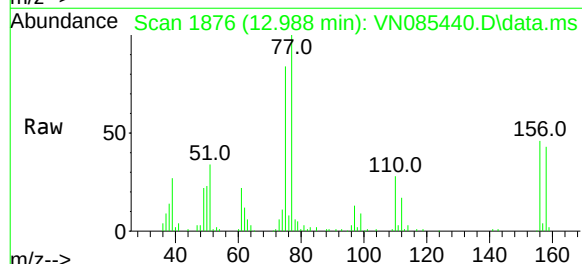
RT: 12.988 min Scan# 1876

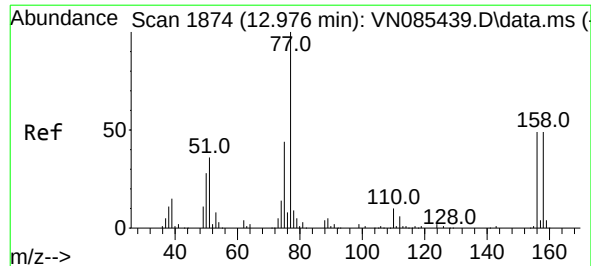
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	75	Resp:	64180
Ion	Ratio	Lower	Upper
75	100		
77	186.8	109.7	329.2





#77

Bromobenzene

Concen: 20.556 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:156 Resp: 52022

Ion Ratio Lower Upper

156 100

77 230.4 114.1 342.4

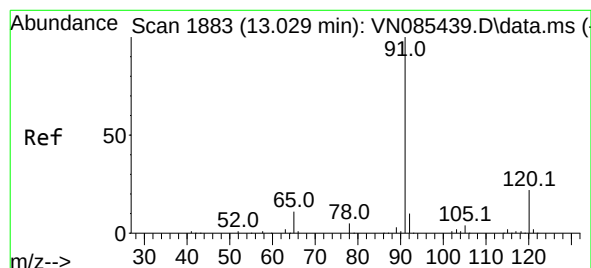
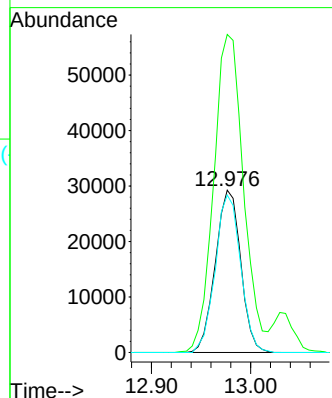
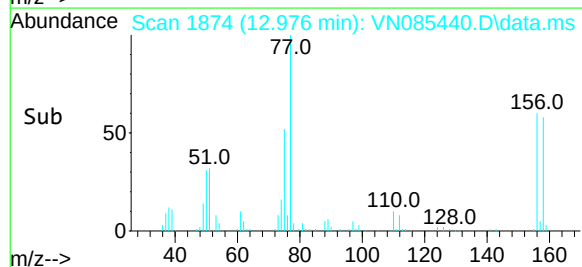
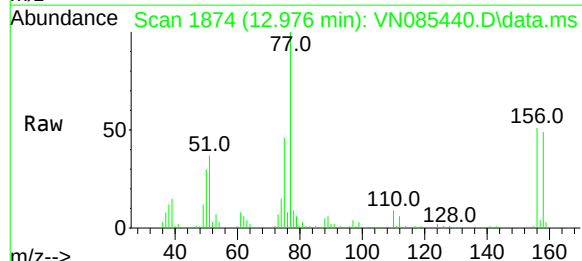
158 97.0 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 22.028 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085440.D

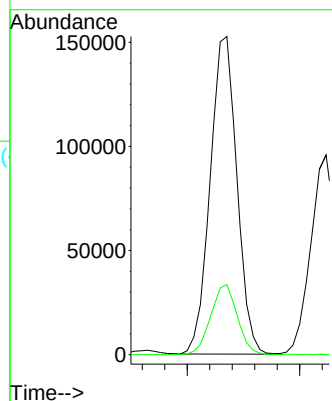
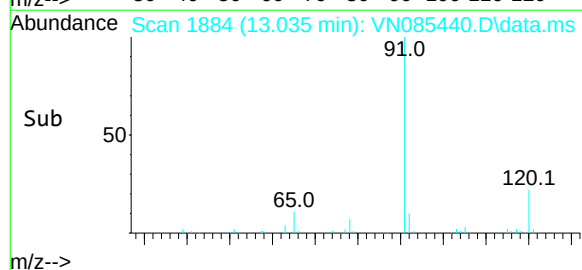
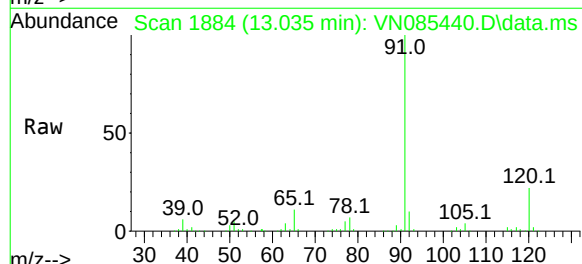
Acq: 14 Jan 2025 15:43

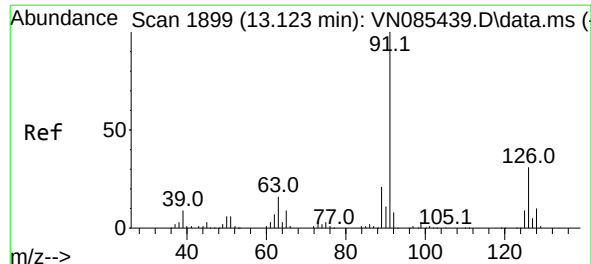
Tgt Ion: 91 Resp: 252610

Ion Ratio Lower Upper

91 100

120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 21.358 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 158511

Ion Ratio Lower Upper

91 100

126 31.5 15.7 47.1

Instrument :

MSVOA_N

ClientSampleId :

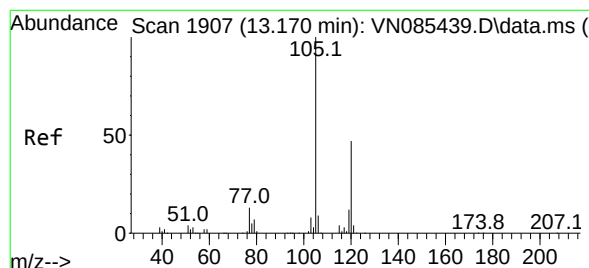
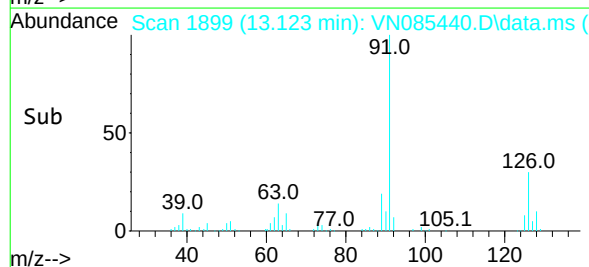
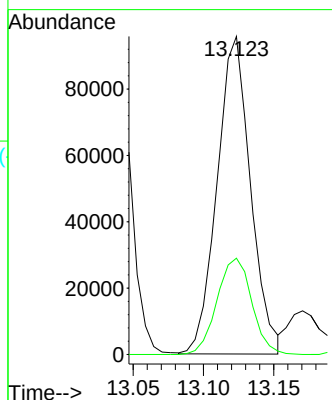
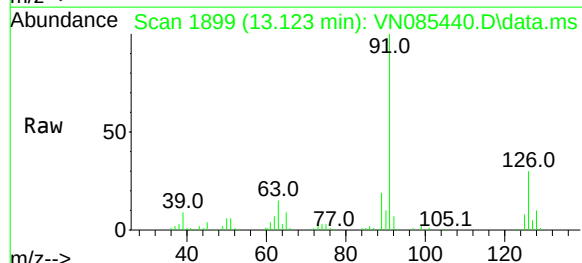
VSTDIC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 22.533 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085440.D

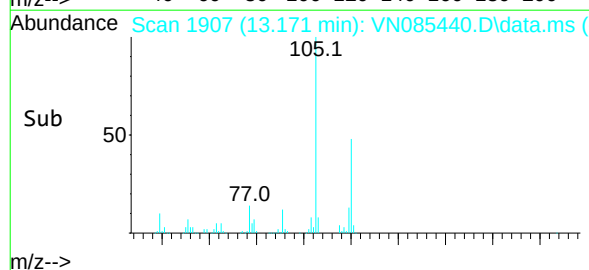
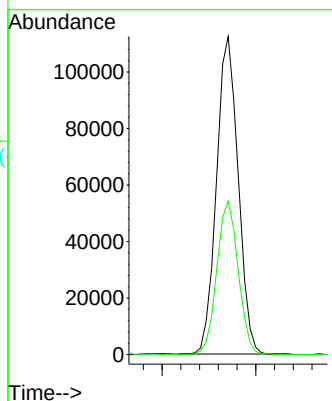
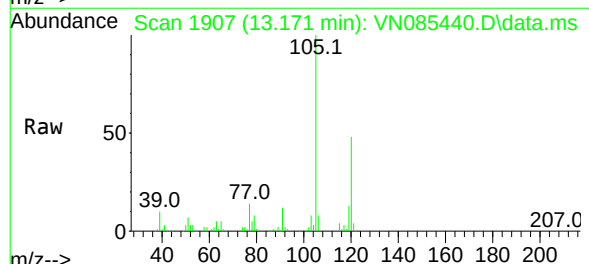
Acq: 14 Jan 2025 15:43

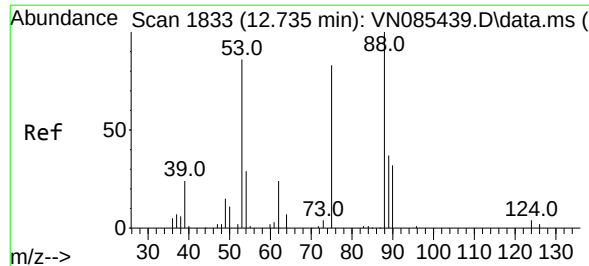
Tgt Ion:105 Resp: 180294

Ion Ratio Lower Upper

105 100

120 47.9 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 20.569 ug/l m

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 22178

Ion Ratio Lower Upper

75 100

53 107.2 95.6 143.4

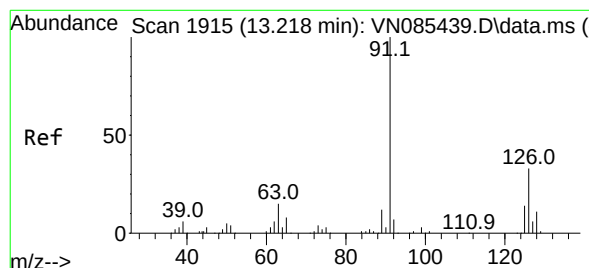
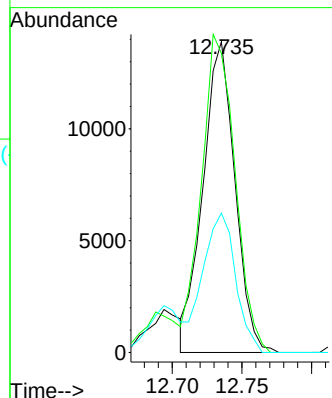
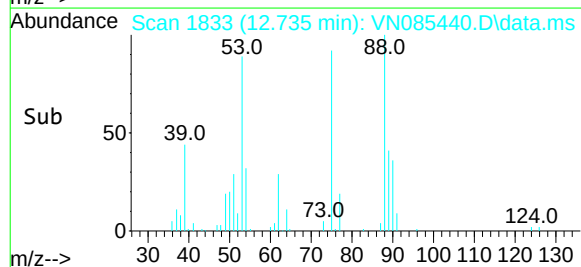
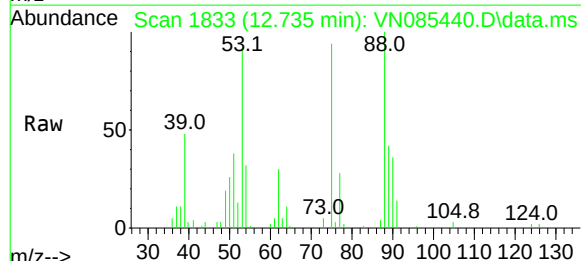
89 46.9 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 21.906 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN085440.D

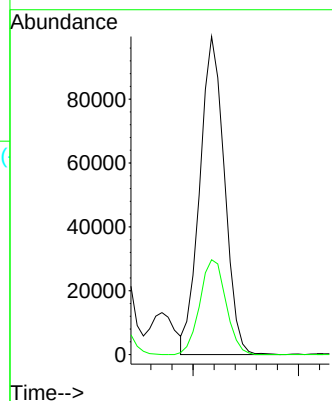
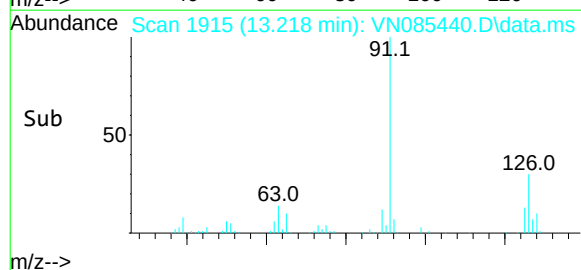
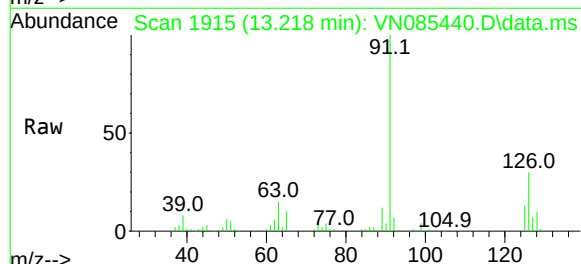
Acq: 14 Jan 2025 15:43

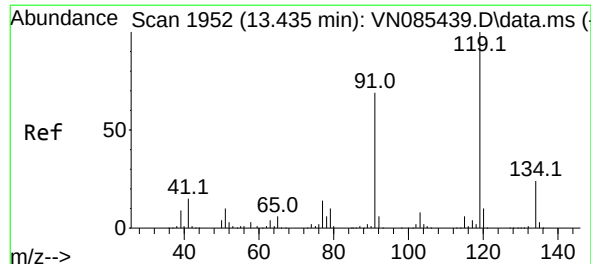
Tgt Ion: 91 Resp: 161880

Ion Ratio Lower Upper

91 100

126 31.6 15.9 47.7





#83

tert-Butylbenzene

Concen: 21.958 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:119 Resp: 147541

Ion Ratio Lower Upper

119 100

91 69.5 35.1 105.3

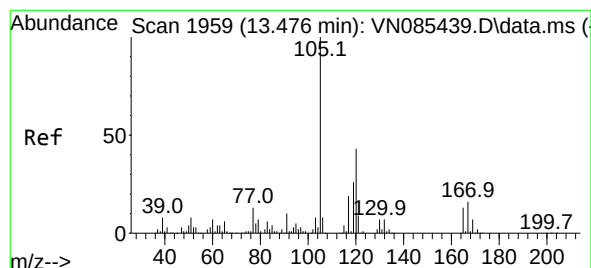
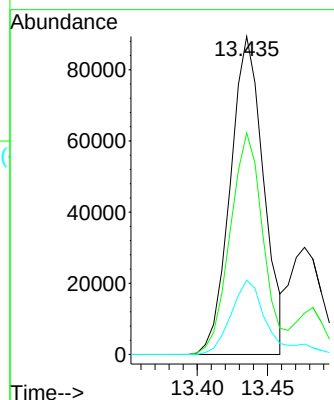
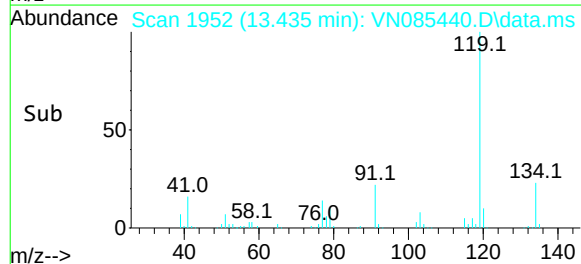
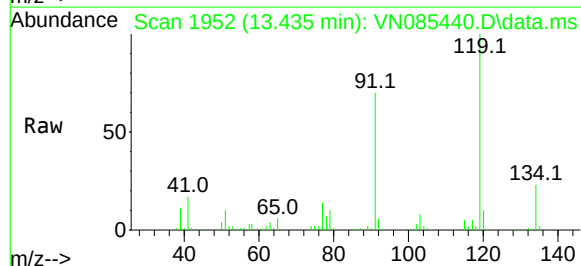
134 25.5 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 22.965 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085440.D

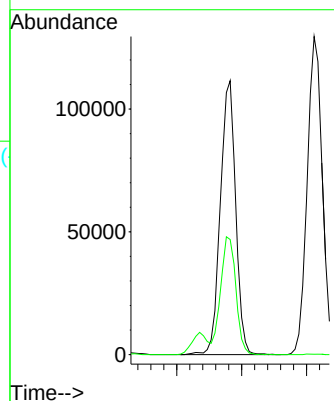
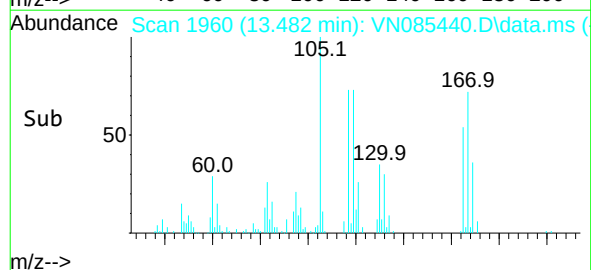
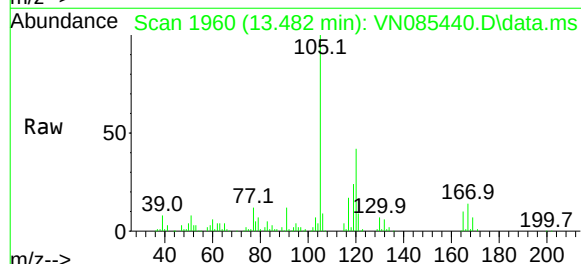
Acq: 14 Jan 2025 15:43

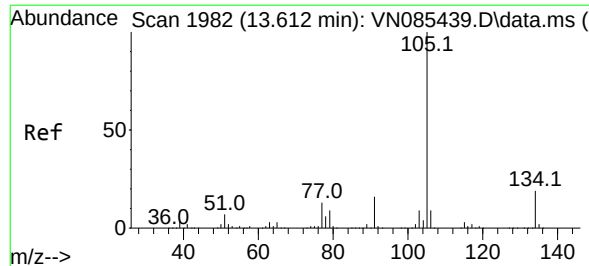
Tgt Ion:105 Resp: 183144

Ion Ratio Lower Upper

105 100

120 42.8 21.6 65.0





#85

sec-Butylbenzene

Concen: 22.457 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 209133

Ion Ratio Lower Upper

105 100

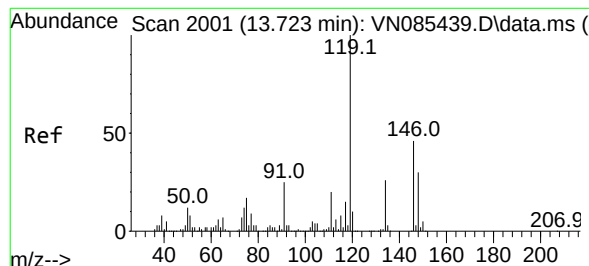
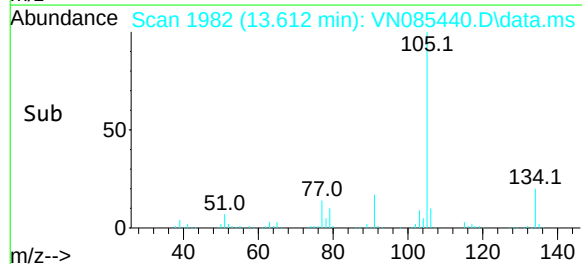
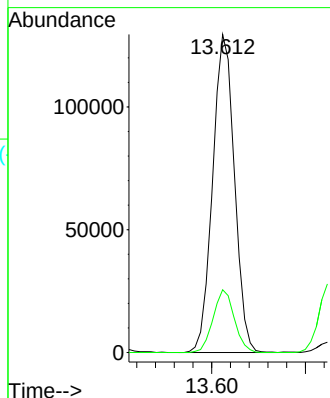
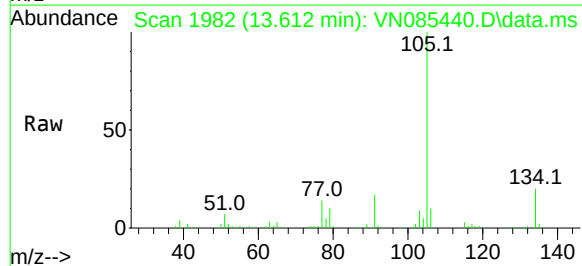
134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 21.661 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

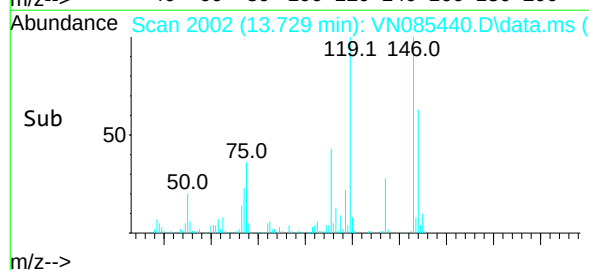
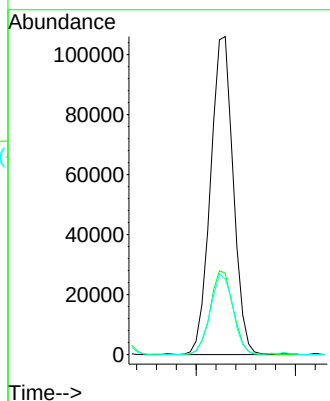
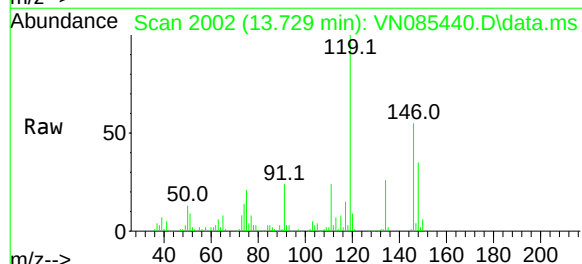
Tgt Ion:119 Resp: 168888

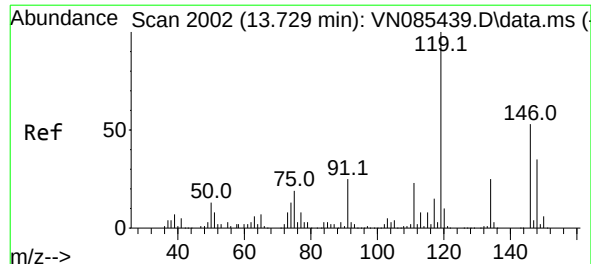
Ion Ratio Lower Upper

119 100

134 26.4 12.7 38.0

91 25.5 12.7 38.1





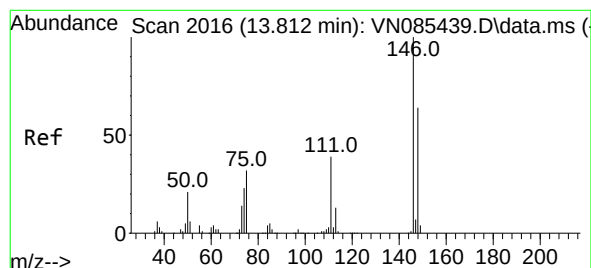
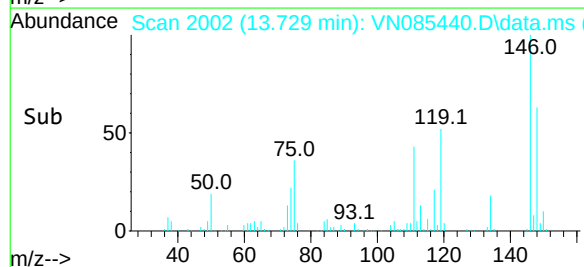
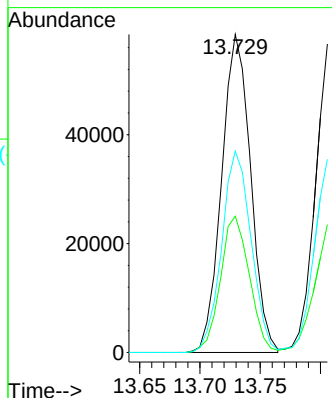
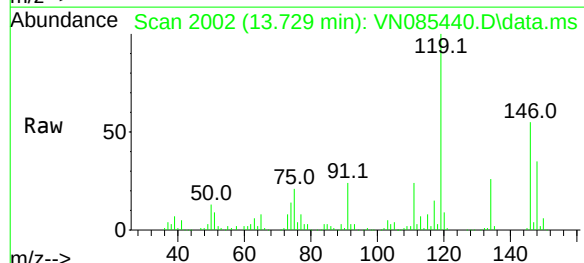
1,3-Dichlorobenzene
Concen: 20.952 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:	146	Resp:	97652
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.4	64.3
148	64.3	32.3	96.9

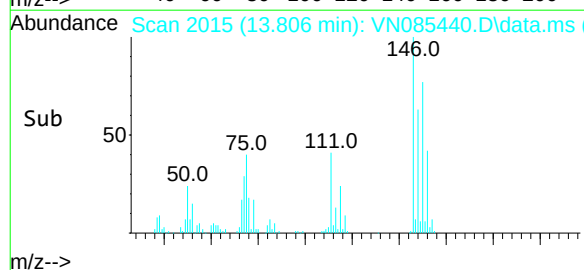
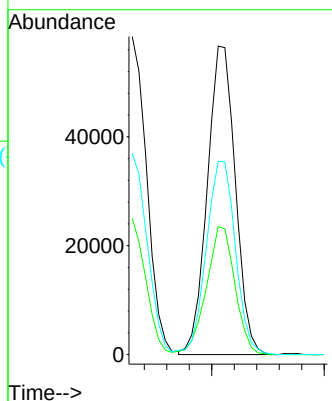
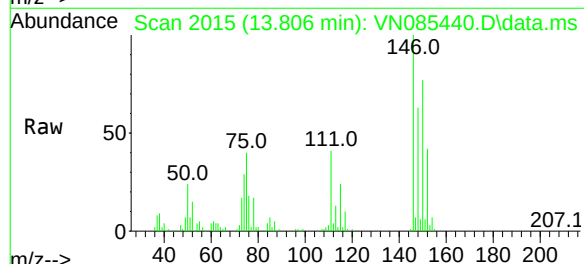
Manual Integrations
APPROVED

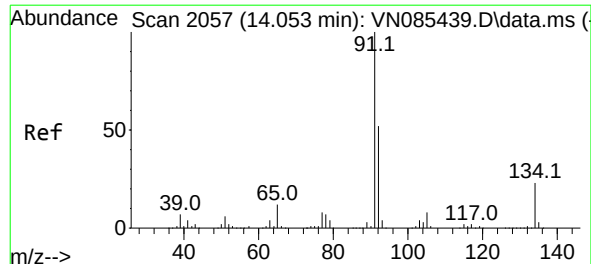
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



1,4-Dichlorobenzene
Concen: 20.351 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:	146	Resp:	98321
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.3	63.7
148	65.1	32.4	97.0





#89

n-Butylbenzene

Concen: 21.355 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 142673

Ion Ratio Lower Upper

91 100

92 51.0 25.8 77.3

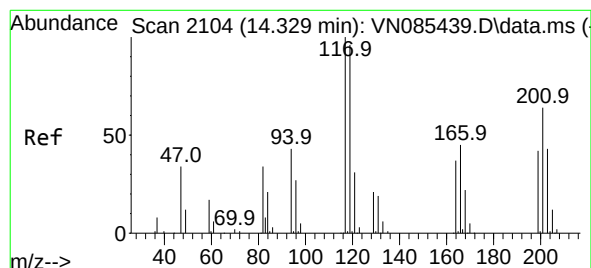
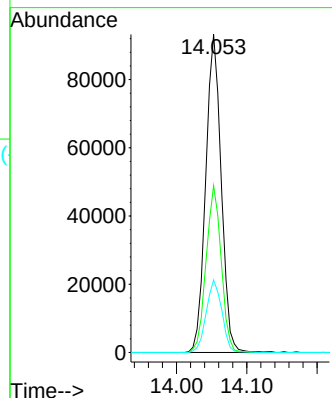
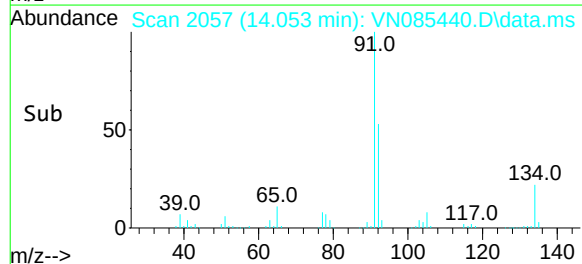
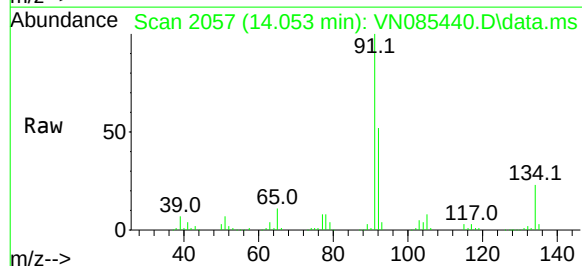
134 23.0 11.7 35.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 19.858 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085440.D

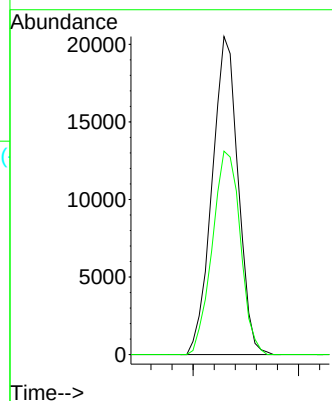
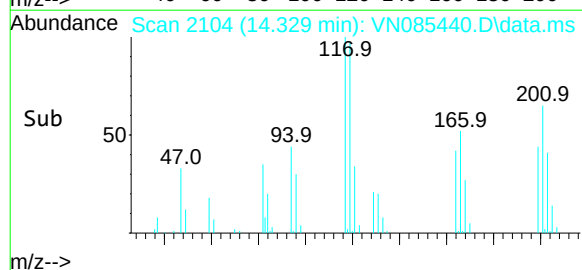
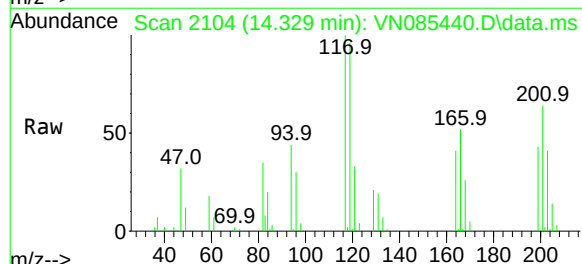
Acq: 14 Jan 2025 15:43

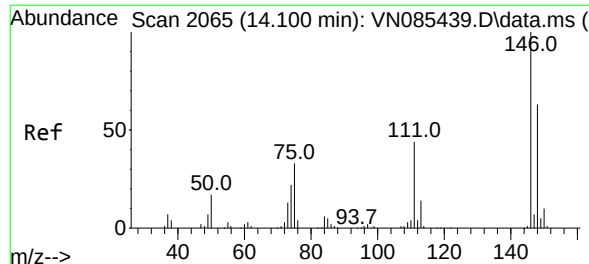
Tgt Ion:117 Resp: 35205

Ion Ratio Lower Upper

117 100

201 68.8 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 20.425 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

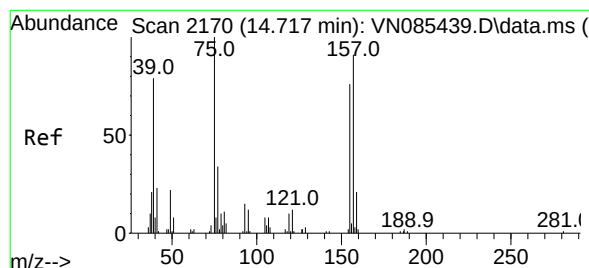
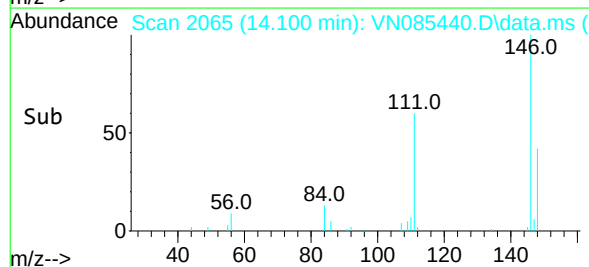
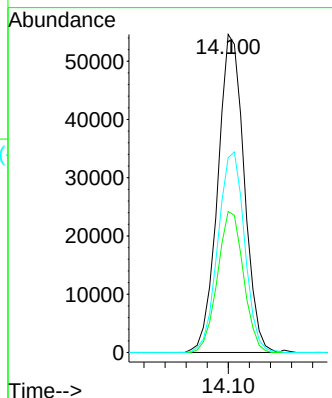
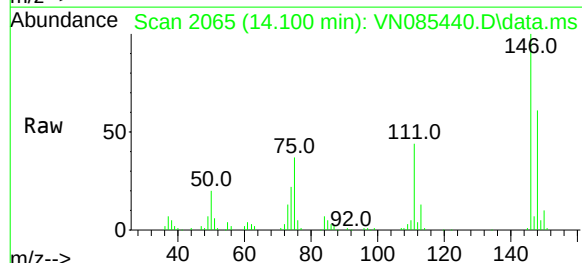
ClientSampleId :

VSTDIC020

Tgt Ion:	146	Resp:	94954
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	63.5	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.580 ug/l

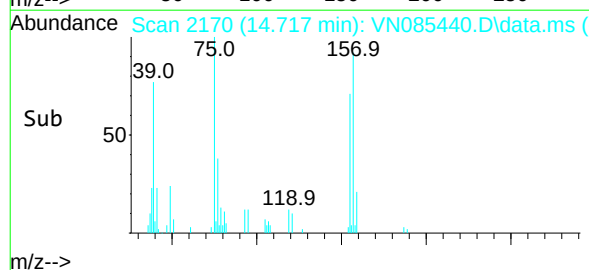
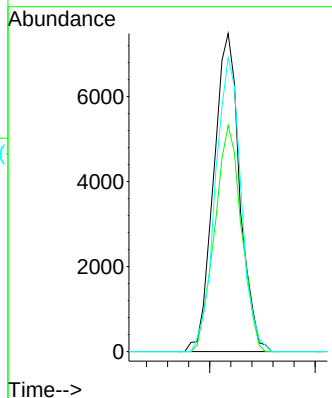
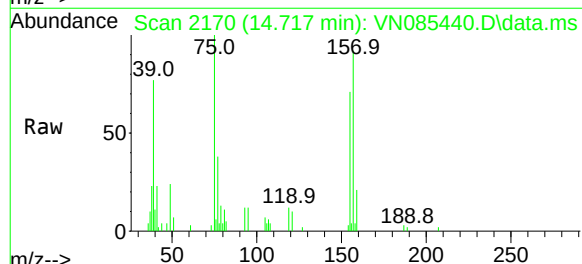
RT: 14.717 min Scan# 2170

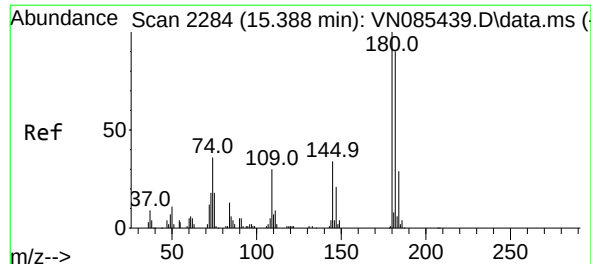
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	75	Resp:	12859
Ion	Ratio	Lower	Upper
75	100		
155	72.7	36.4	109.2
157	90.9	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 21.233 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

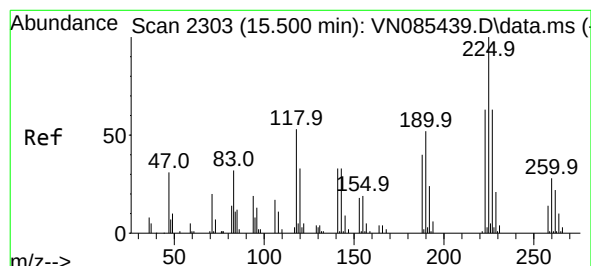
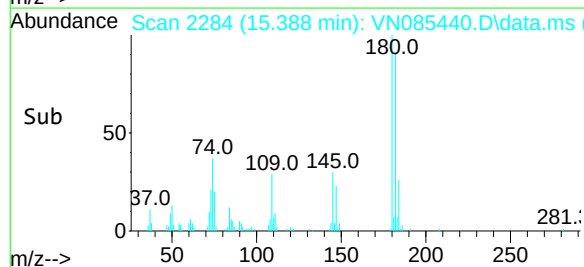
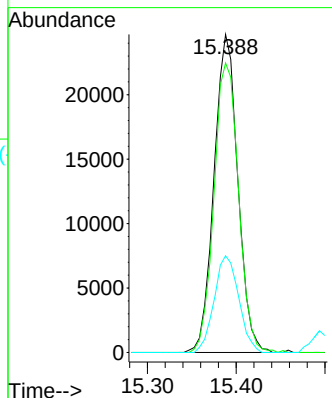
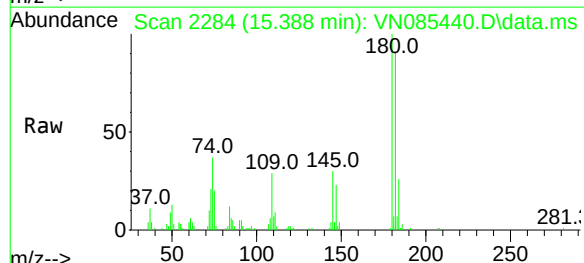
ClientSampleId :

VSTDICC020

Tgt Ion:	180	Resp:	45878
Ion Ratio	Lower	Upper	
180	100		
182	94.2	46.8	140.3
145	31.4	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 19.805 ug/l

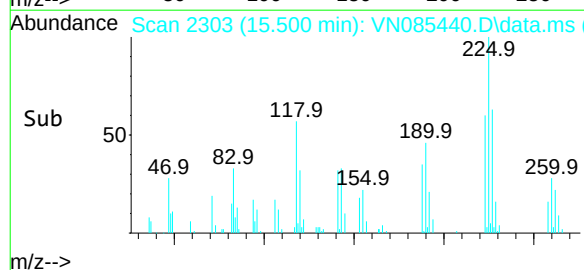
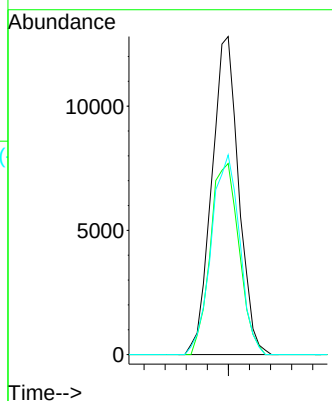
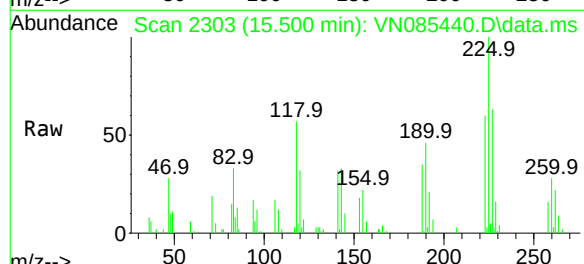
RT: 15.500 min Scan# 2303

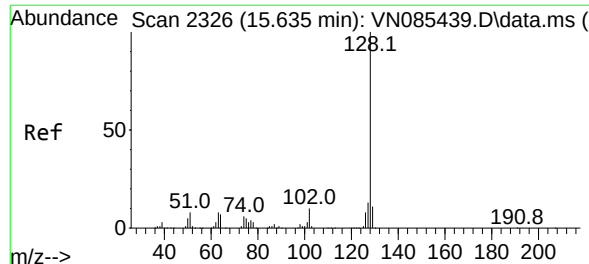
Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	225	Resp:	22719
Ion Ratio	Lower	Upper	
225	100		
223	64.3	30.7	92.1
227	66.3	30.9	92.5





#95

Naphthalene

Concen: 20.906 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

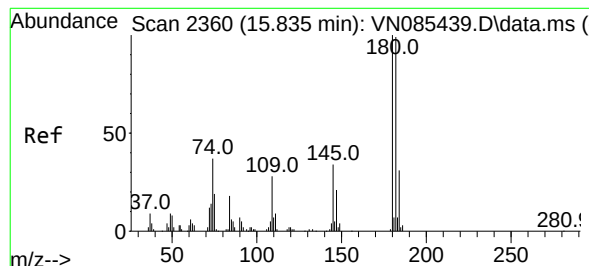
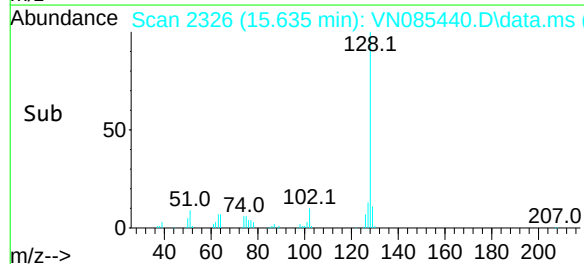
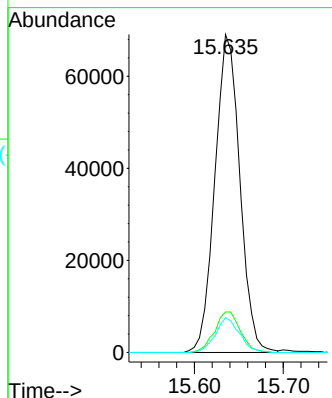
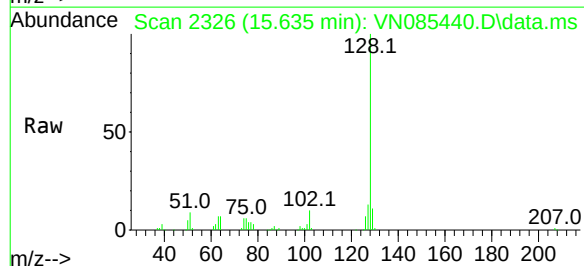
ClientSampleId :

VSTDICC020

Tgt Ion:	128	Resp:	134793
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.6	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.797 ug/l

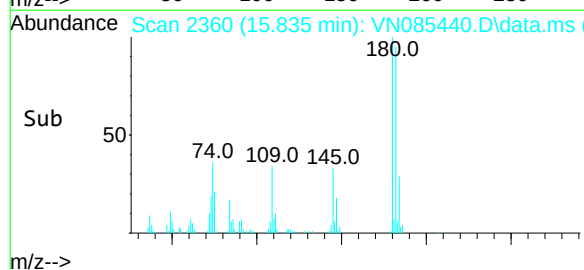
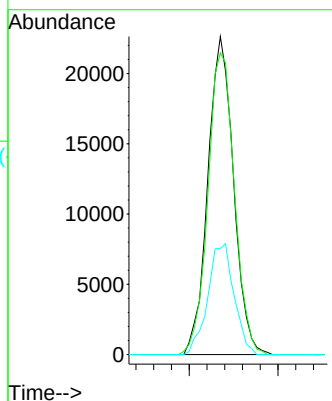
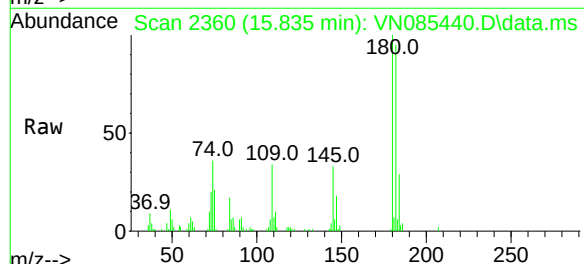
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Tgt Ion:	180	Resp:	45468
Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.4	142.2
145	35.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085441.D
 Acq On : 14 Jan 2025 16:07
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Jan 15 01:44:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	195889	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	340403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132934	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	29856	9.442	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	18.880%#
35) Dibromofluoromethane	8.165	113	21110	8.939	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	17.880%#
50) Toluene-d8	10.565	98	73223	8.727	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	17.460%#
62) 4-Bromofluorobenzene	12.847	95	24327	8.476	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	16.960%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	26124	9.850	ug/l	96
3) Chloromethane	2.359	50	27143	9.452	ug/l	99
4) Vinyl Chloride	2.512	62	27862	9.653	ug/l	100
5) Bromomethane	2.965	94	17139	9.830	ug/l	87
6) Chloroethane	3.130	64	16791	9.175	ug/l	96
7) Trichlorofluoromethane	3.501	101	40755	9.731	ug/l	98
8) Diethyl Ether	3.953	74	12415	8.581	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	22982	9.742	ug/l	98
10) Methyl Iodide	4.589	142	25085	9.286	ug/l	99
11) Tert butyl alcohol	5.512	59	17962	49.608	ug/l	97
12) 1,1-Dichloroethene	4.342	96	20615	9.806	ug/l	99
13) Acrolein	4.177	56	25568	51.729	ug/l	99
14) Allyl chloride	5.018	41	32240	9.451	ug/l	97
15) Acrylonitrile	5.712	53	53959	46.918	ug/l	98
16) Acetone	4.424	43	48475	47.446	ug/l	98
17) Carbon Disulfide	4.712	76	60201	9.300	ug/l #	94
18) Methyl Acetate	5.030	43	30500	9.817	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	65207	9.552	ug/l	91
20) Methylene Chloride	5.277	84	23723	9.379	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	21127	9.403	ug/l	97
22) Diisopropyl ether	6.671	45	71857	9.490	ug/l	97
23) Vinyl Acetate	6.600	43	250575	47.125	ug/l	98
24) 1,1-Dichloroethane	6.565	63	43099	9.335	ug/l	95
25) 2-Butanone	7.477	43	71191	47.350	ug/l	99
26) 2,2-Dichloropropane	7.483	77	36105	9.672	ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	25049	9.466	ug/l	97
28) Bromochloromethane	7.806	49	19037	8.863	ug/l	97
29) Tetrahydrofuran	7.836	42	45641	47.881	ug/l	98
30) Chloroform	7.965	83	45792	9.596	ug/l	100
31) Cyclohexane	8.253	56	40211	10.020	ug/l #	93
32) 1,1,1-Trichloroethane	8.165	97	39170	9.358	ug/l	99
36) 1,1-Dichloropropene	8.371	75	30015	9.056	ug/l	97
37) Ethyl Acetate	7.559	43	30760	9.195	ug/l	97
38) Carbon Tetrachloride	8.359	117	36015	9.492	ug/l	94
39) Methylcyclohexane	9.594	83	27721	8.900	ug/l	95
40) Benzene	8.600	78	93680	9.407	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085441.D
 Acq On : 14 Jan 2025 16:07
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Quant Time: Jan 15 01:44:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	16859	9.686	ug/l	96
42) 1,2-Dichloroethane	8.665	62	35569	9.483	ug/l	99
43) Isopropyl Acetate	8.683	43	48926	9.127	ug/l	99
44) Trichloroethene	9.347	130	21113	9.108	ug/l	95
45) 1,2-Dichloropropane	9.618	63	22747	8.942	ug/l	97
46) Dibromomethane	9.706	93	17260	9.404	ug/l	99
47) Bromodichloromethane	9.883	83	35020	9.365	ug/l	98
48) Methyl methacrylate	9.677	41	21873	9.067	ug/l	97
49) 1,4-Dioxane	9.694	88	7734	190.382	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	146990	47.254	ug/l	98
52) Toluene	10.630	92	54976	9.527	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	32780	9.276	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	35904	9.512	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	21060	9.222	ug/l	98
56) Ethyl methacrylate	10.871	69	28454	9.042	ug/l	95
57) 1,3-Dichloropropane	11.159	76	37768	9.512	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	63110	43.550	ug/l	98
59) 2-Hexanone	11.194	43	101318	46.291	ug/l	98
60) Dibromochloromethane	11.353	129	25029	9.079	ug/l	98
61) 1,2-Dibromoethane	11.465	107	21055	9.263	ug/l	100
64) Tetrachloroethene	11.100	164	19934	9.928	ug/l	97
65) Chlorobenzene	11.888	112	61680	9.560	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	21853	9.229	ug/l	98
67) Ethyl Benzene	11.959	91	99248	9.445	ug/l	97
68) m/p-Xylenes	12.065	106	72431	18.650	ug/l	99
69) o-Xylene	12.394	106	34382	9.264	ug/l	99
70) Styrene	12.406	104	56285	9.163	ug/l	98
71) Bromoform	12.576	173	16071	9.485	ug/l #	98
73) Isopropylbenzene	12.694	105	87003	9.697	ug/l	99
74) N-ethyl acetate	12.494	43	37343	9.260	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30770	9.709	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	25443m	9.432	ug/l	
77) Bromobenzene	12.976	156	22784	9.720	ug/l	97
78) n-propylbenzene	13.035	91	102262	9.628	ug/l	98
79) 2-Chlorotoluene	13.123	91	68346	9.943	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	71656	9.669	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	9236	9.248	ug/l	100
82) 4-Chlorotoluene	13.218	91	66773	9.756	ug/l	97
83) tert-Butylbenzene	13.435	119	59455	9.553	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	72046	9.754	ug/l	99
85) sec-Butylbenzene	13.612	105	83662	9.699	ug/l	99
86) p-Isopropyltoluene	13.729	119	67556	9.674	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	41843	9.693	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	42728	9.549	ug/l	99
89) n-Butylbenzene	14.053	91	57632	9.314	ug/l	97
90) Hexachloroethane	14.329	117	15261	9.294	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	40726	9.458	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5639	9.744	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	18720	9.354	ug/l	99
94) Hexachlorobutadiene	15.500	225	10491	9.874	ug/l	98
95) Naphthalene	15.635	128	52054	8.717	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	19450	9.605	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:44:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

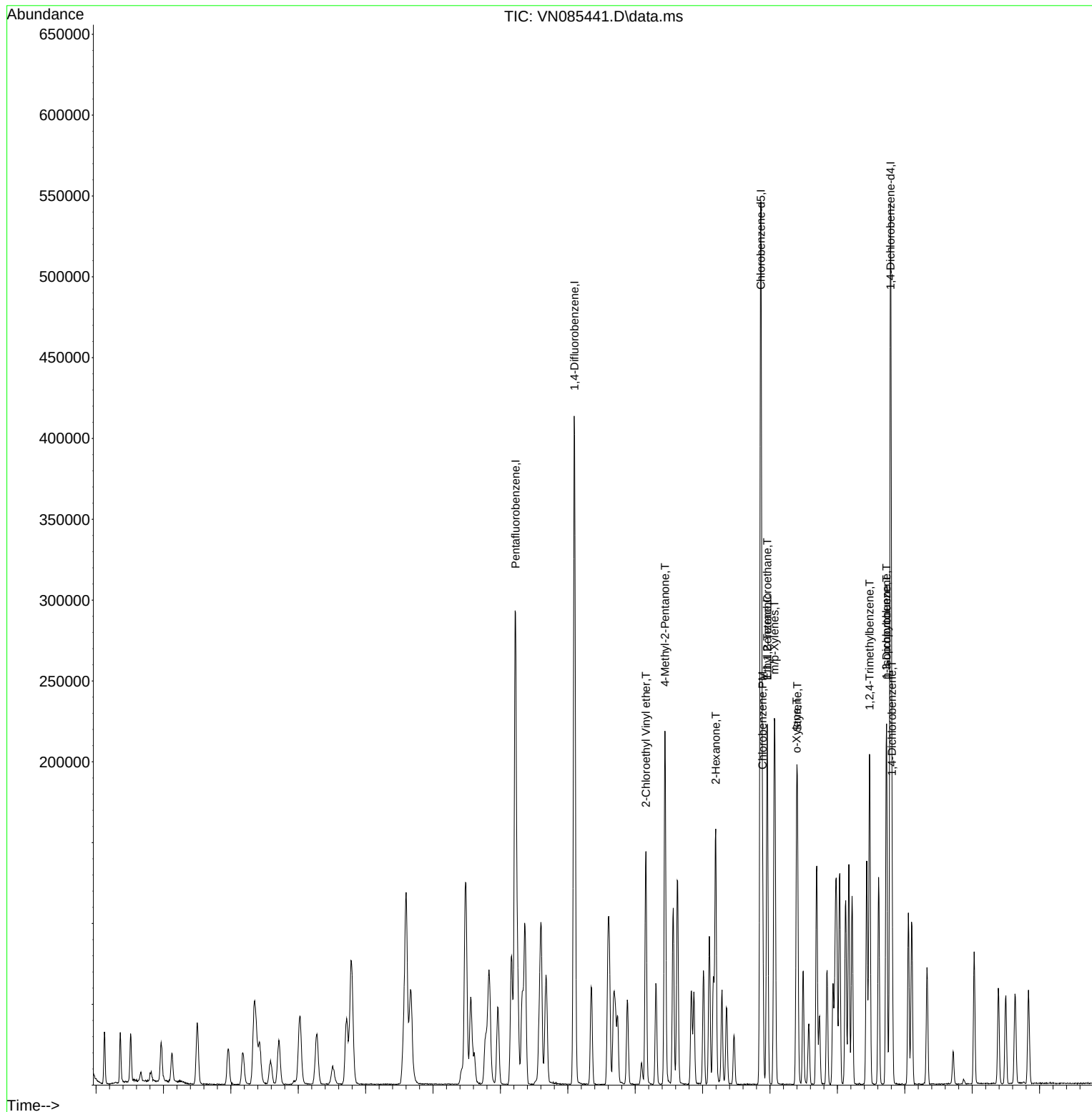
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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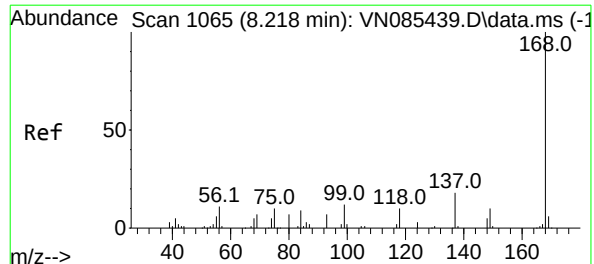
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025





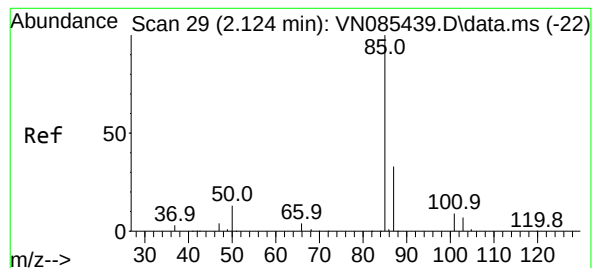
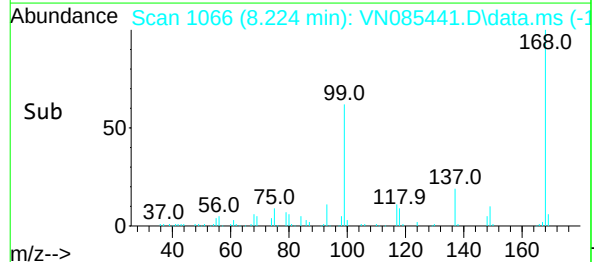
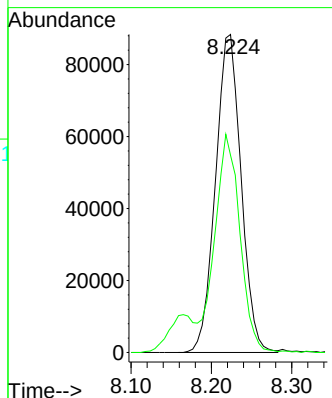
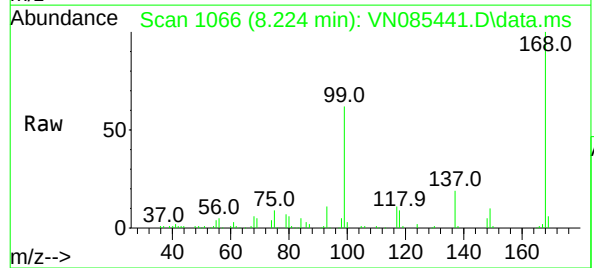
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 168 Resp: 195889
Ion Ratio Lower Upper
168 100
99 61.7 53.6 80.4

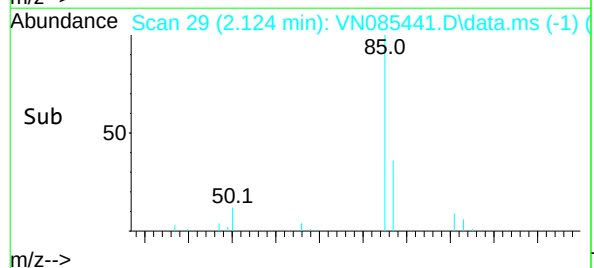
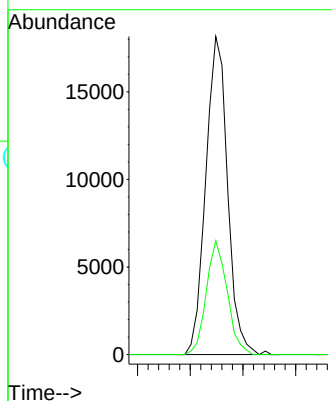
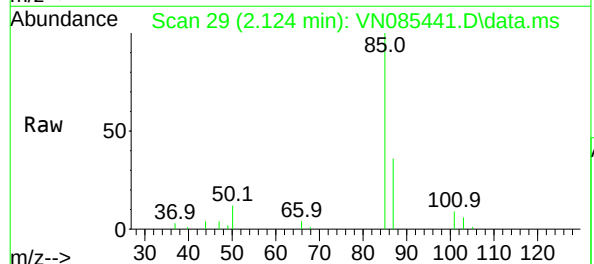
Manual Integrations
APPROVED

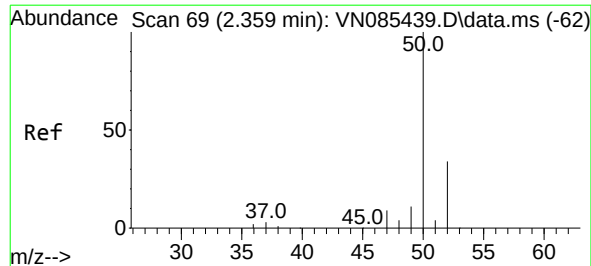
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 9.850 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 85 Resp: 26124
Ion Ratio Lower Upper
85 100
87 35.8 16.7 50.1





#3

Chloromethane

Concen: 9.452 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 50 Resp: 27143

Ion Ratio Lower Upper

50 100

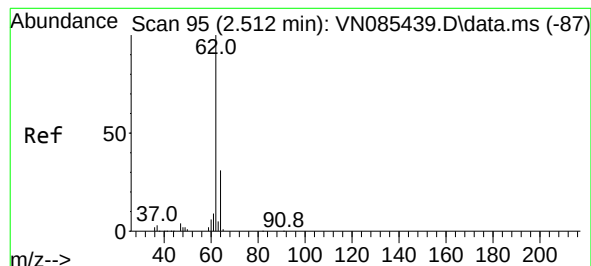
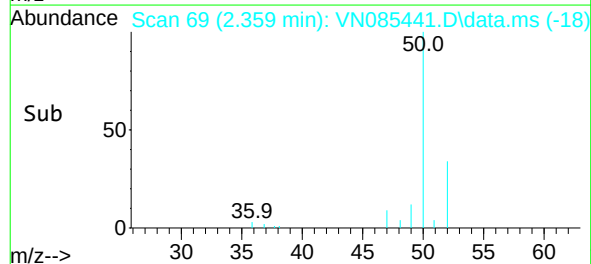
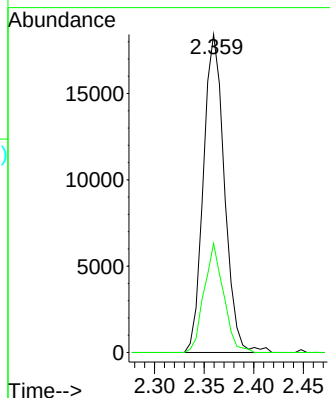
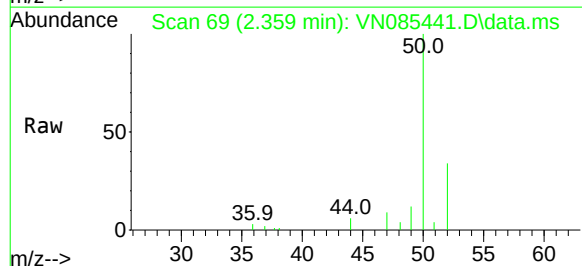
52 34.3 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 9.653 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085441.D

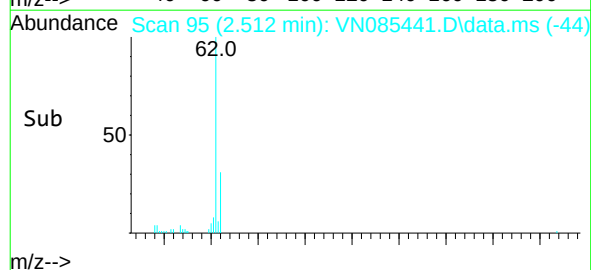
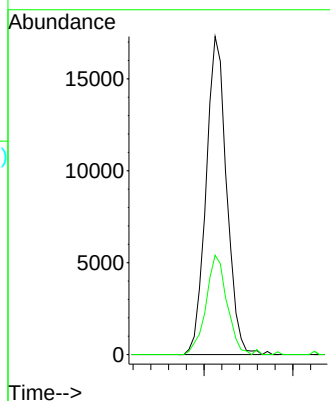
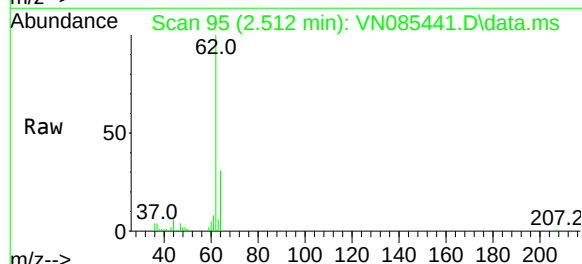
Acq: 14 Jan 2025 16:07

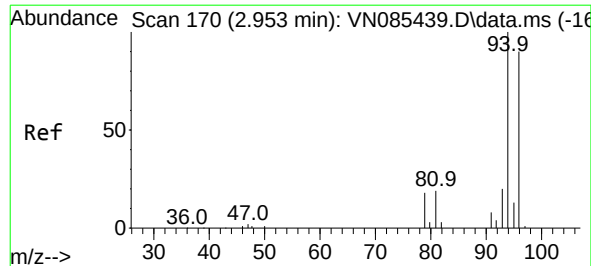
Tgt Ion: 62 Resp: 27862

Ion Ratio Lower Upper

62 100

64 31.2 24.8 37.2





#5

Bromomethane

Concen: 9.830 ug/l

RT: 2.965 min Scan# 171

Delta R.T. 0.012 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 94 Resp: 17139

Ion Ratio Lower Upper

94 100

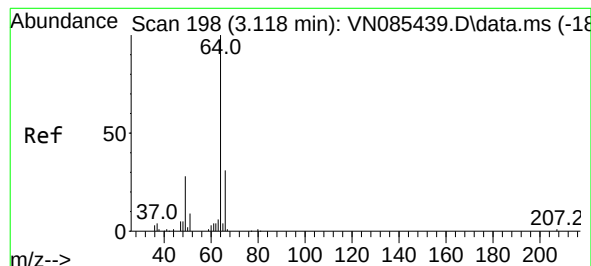
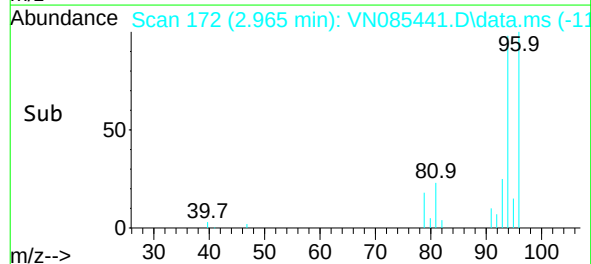
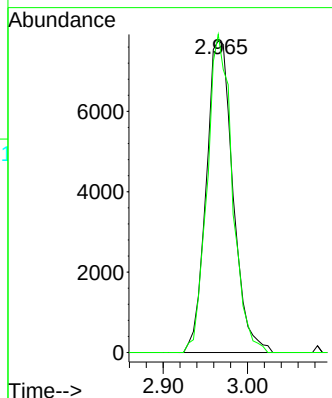
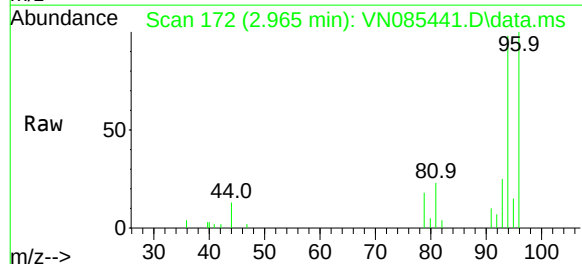
96 102.1 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 9.175 ug/l

RT: 3.130 min Scan# 200

Delta R.T. 0.012 min

Lab File: VN085441.D

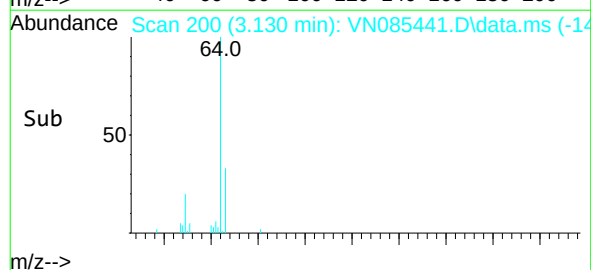
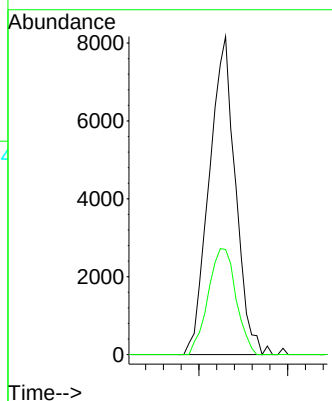
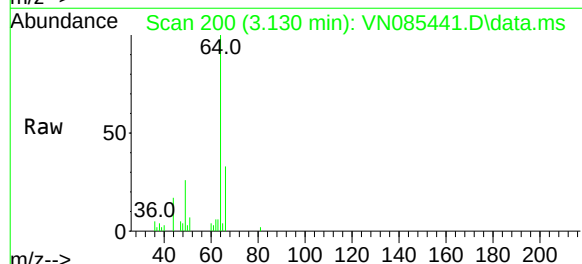
Acq: 14 Jan 2025 16:07

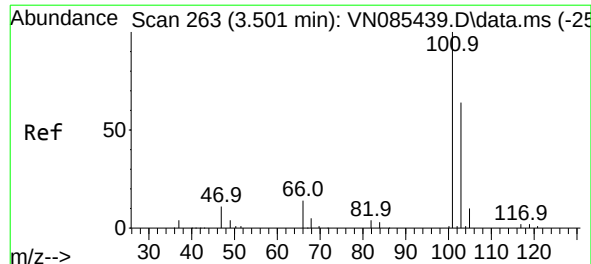
Tgt Ion: 64 Resp: 16791

Ion Ratio Lower Upper

64 100

66 33.1 24.6 36.8





#7

Trichlorofluoromethane

Concen: 9.731 ug/l

RT: 3.501 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:101 Resp: 40755

Ion Ratio Lower Upper

101 100

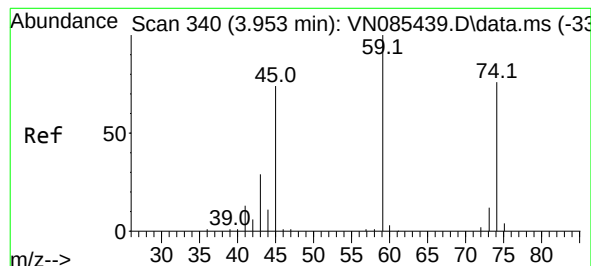
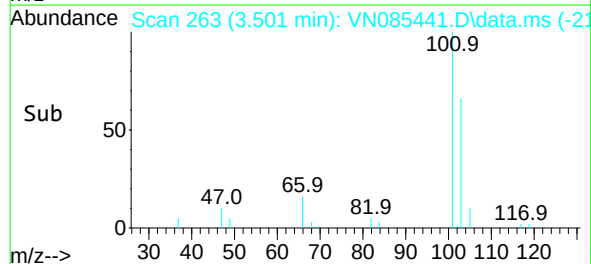
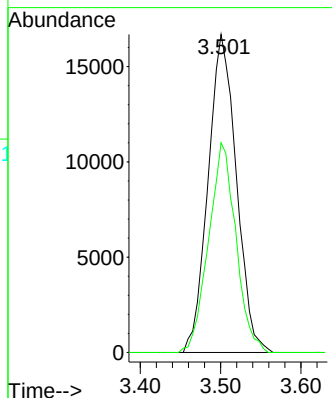
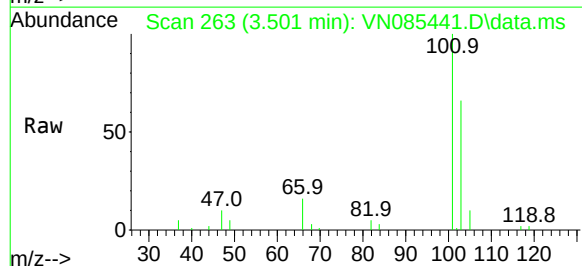
103 65.9 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 8.581 ug/l

RT: 3.953 min Scan# 340

Delta R.T. 0.000 min

Lab File: VN085441.D

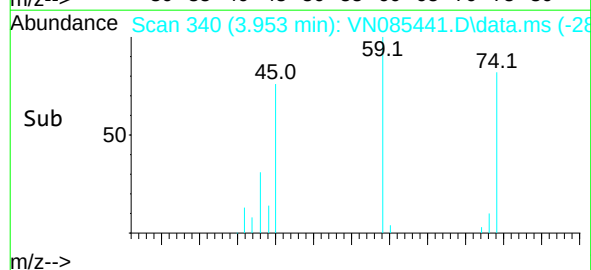
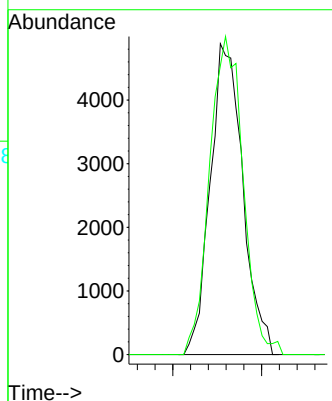
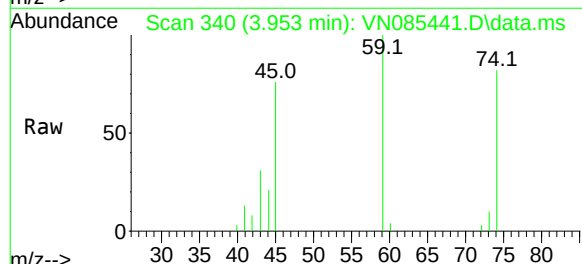
Acq: 14 Jan 2025 16:07

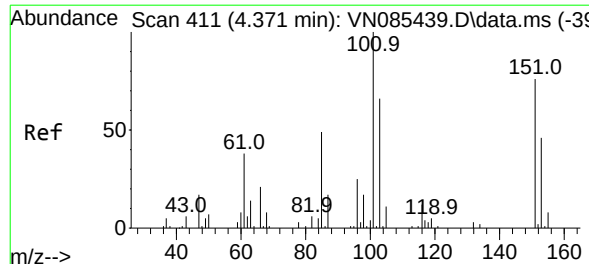
Tgt Ion: 74 Resp: 12415

Ion Ratio Lower Upper

74 100

45 105.3 49.7 149.1





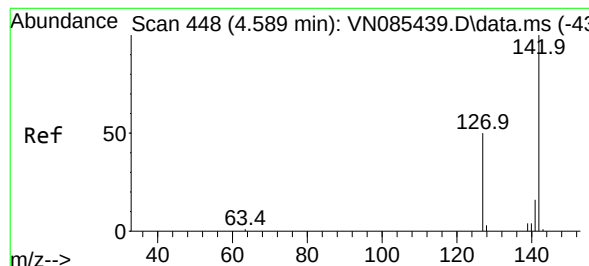
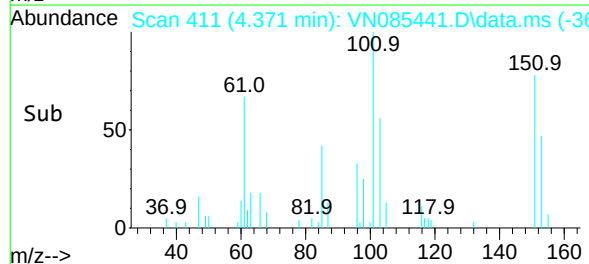
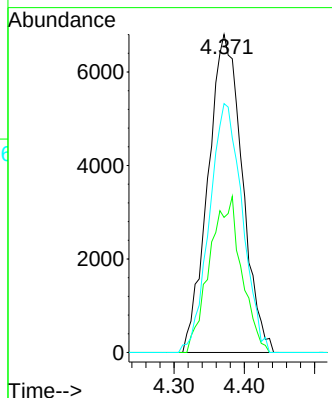
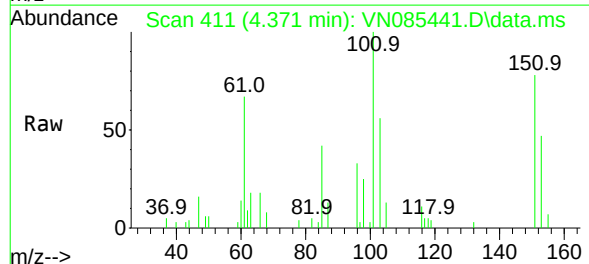
#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.742 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:101 Resp: 22982
Ion Ratio Lower Upper
101 100
85 45.8 37.8 56.8
151 75.2 58.8 88.2

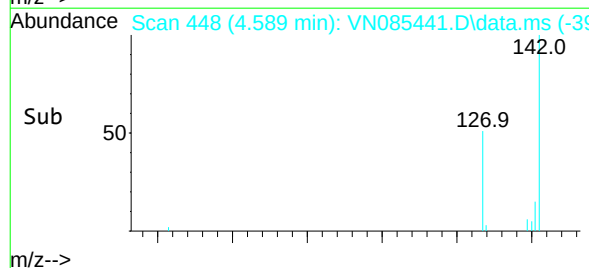
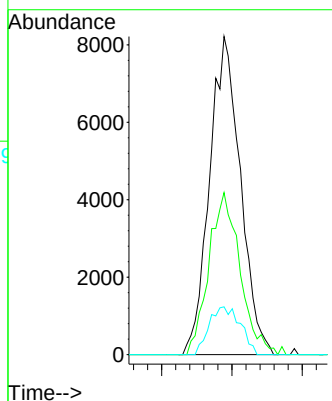
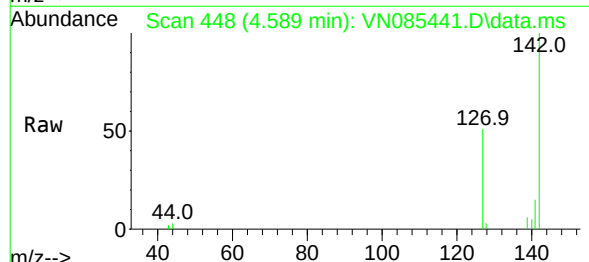
Manual Integrations
APPROVED

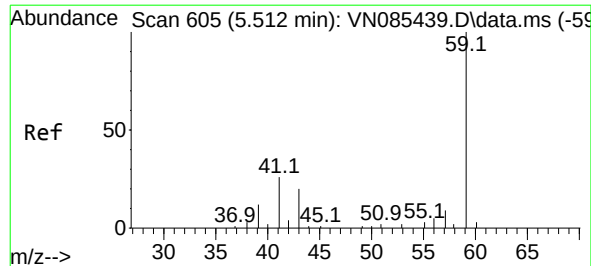
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 9.286 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:142 Resp: 25085
Ion Ratio Lower Upper
142 100
127 50.9 40.3 60.5
141 15.0 12.8 19.2





#11

Tert butyl alcohol

Concen: 49.608 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 17962

Ion Ratio Lower Upper

59 100

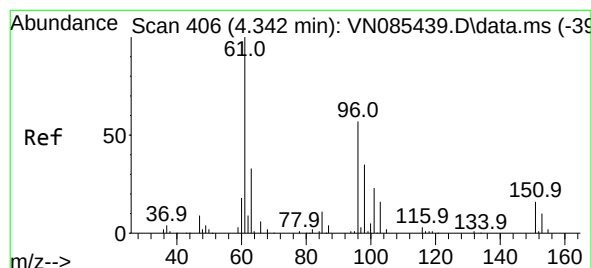
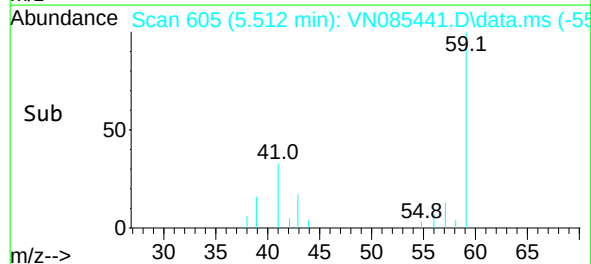
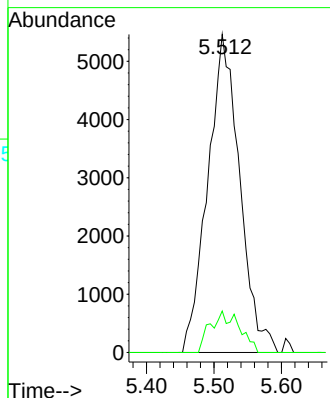
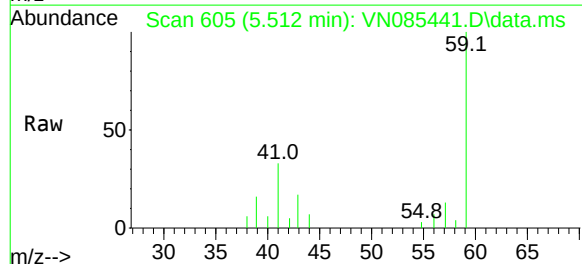
57 11.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 9.806 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

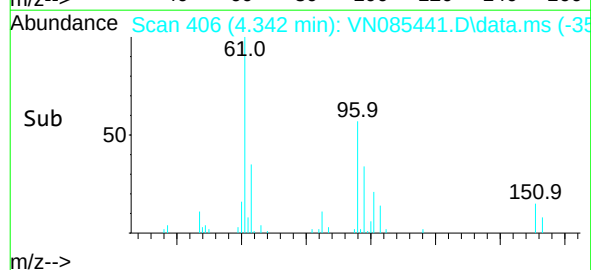
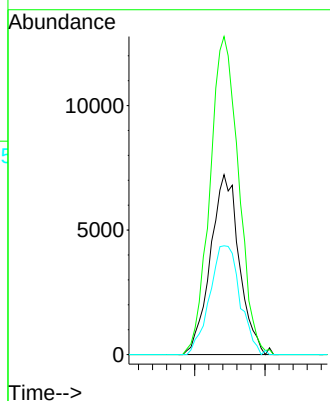
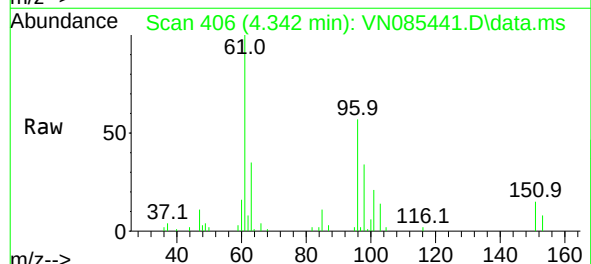
Tgt Ion: 96 Resp: 20615

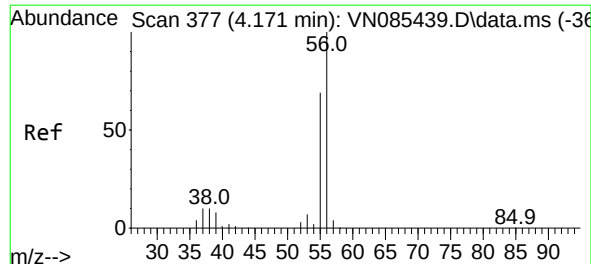
Ion Ratio Lower Upper

96 100

61 176.8 141.0 211.4

98 60.5 49.0 73.6





#13

Acrolein

Concen: 51.729 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 25568

Ion Ratio Lower Upper

56 100

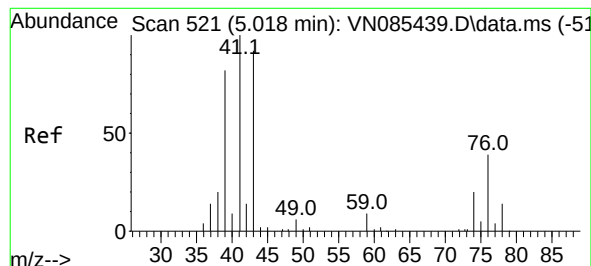
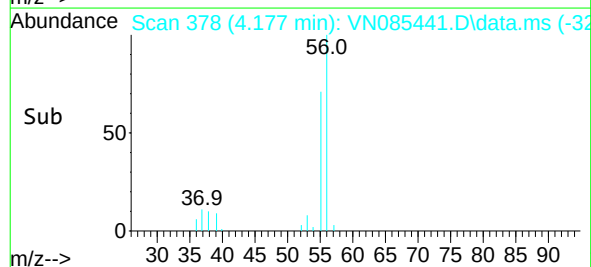
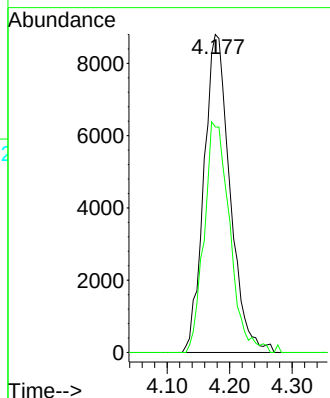
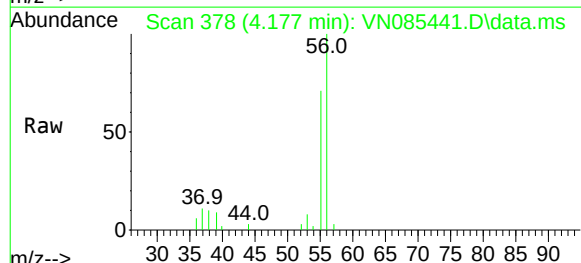
55 70.9 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 9.451 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

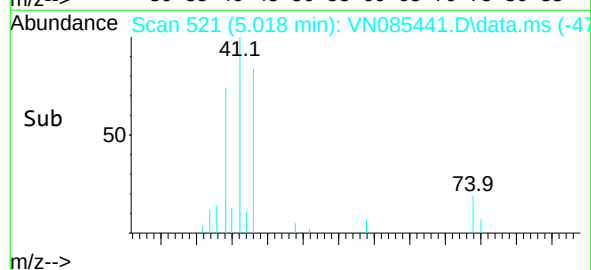
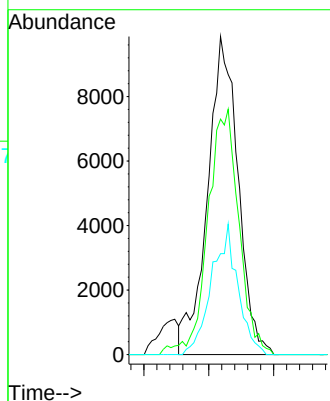
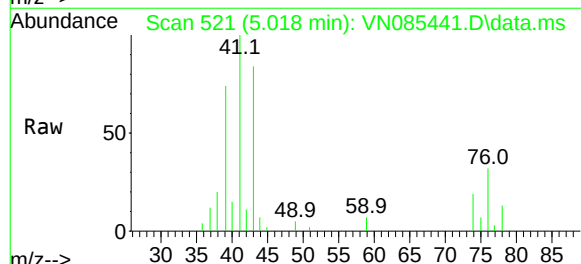
Tgt Ion: 41 Resp: 32240

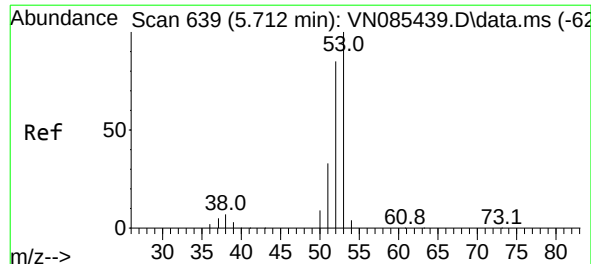
Ion Ratio Lower Upper

41 100

39 78.3 64.4 96.6

76 35.1 30.5 45.7





#15

Acrylonitrile

Concen: 46.918 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

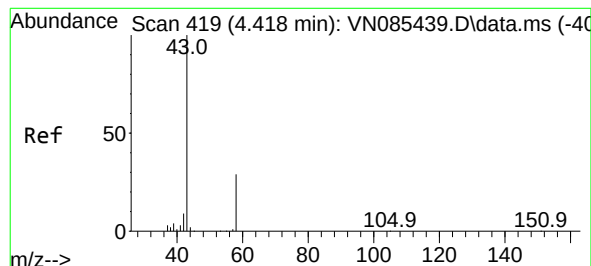
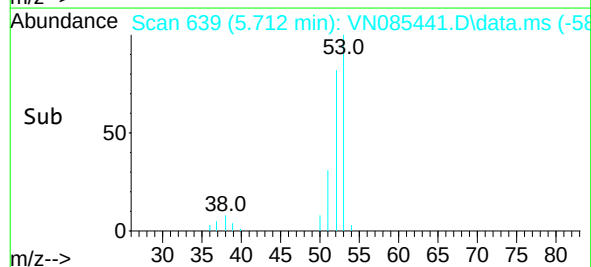
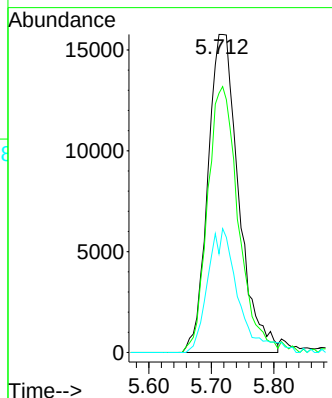
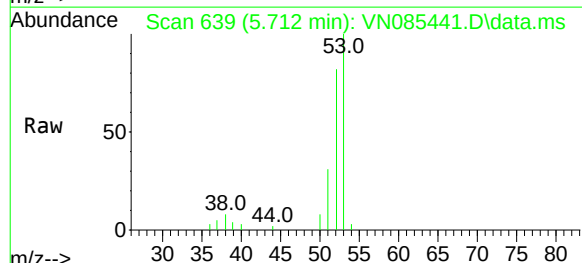
ClientSampleId :

VSTDIC010

Tgt Ion:	53	Resp:	53959
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.5	98.3
51	38.8	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 47.446 ug/l

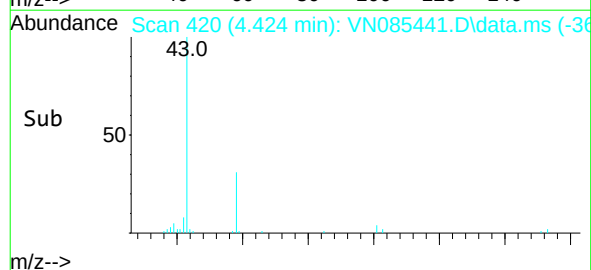
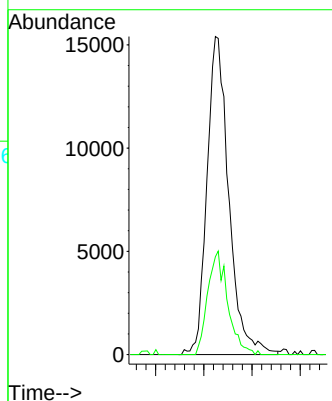
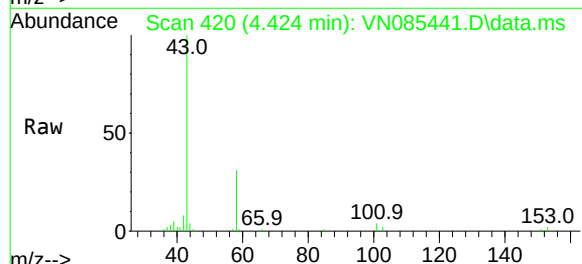
RT: 4.424 min Scan# 420

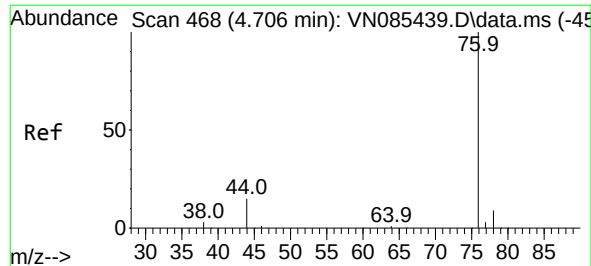
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	43	Resp:	48475
Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.8	35.6





#17

Carbon Disulfide

Concen: 9.300 ug/l

RT: 4.712 min Scan# 46

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 76 Resp: 60201

Ion Ratio Lower Upper

76 100

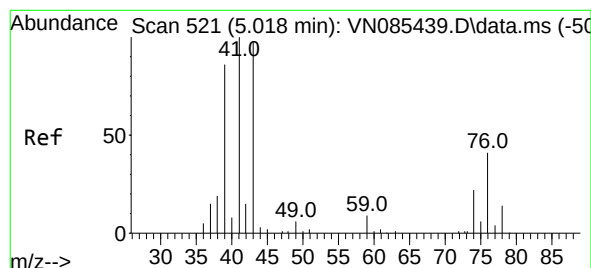
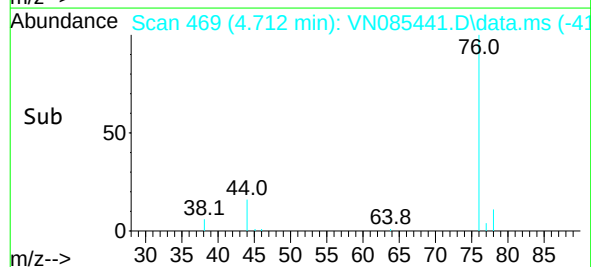
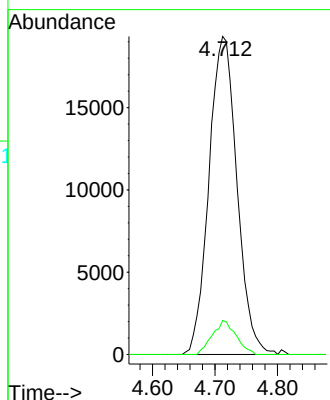
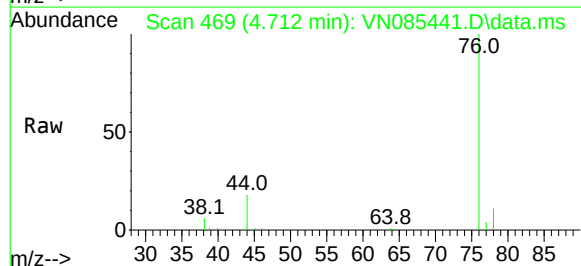
78 10.7 6.9 10.3#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 9.817 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085441.D

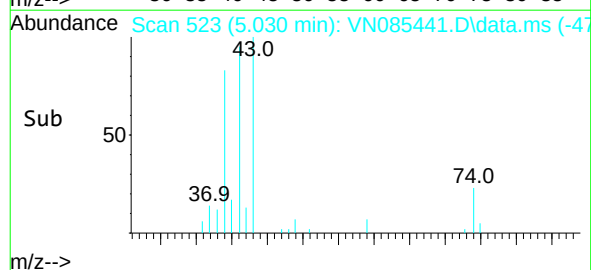
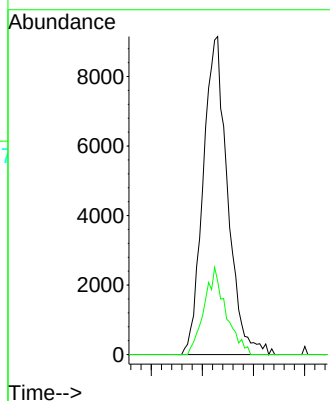
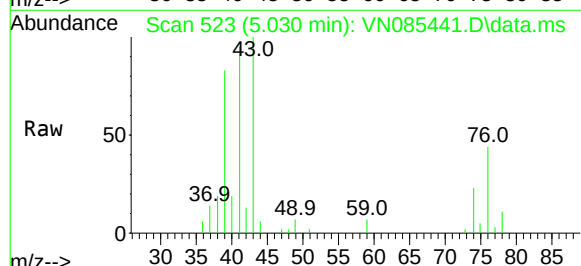
Acq: 14 Jan 2025 16:07

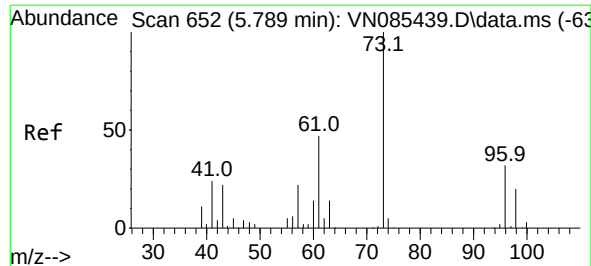
Tgt Ion: 43 Resp: 30500

Ion Ratio Lower Upper

43 100

74 24.3 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 9.552 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 73 Resp: 65207

Ion Ratio Lower Upper

73 100

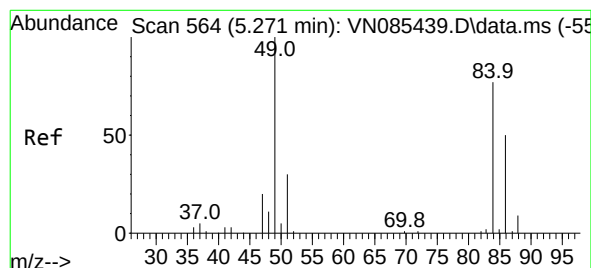
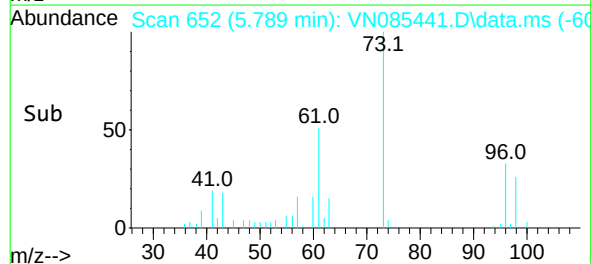
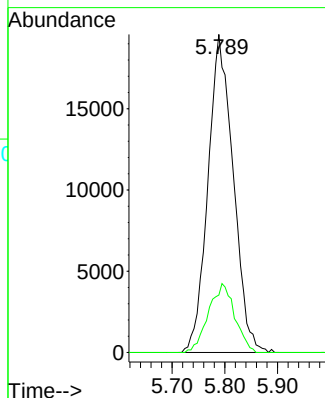
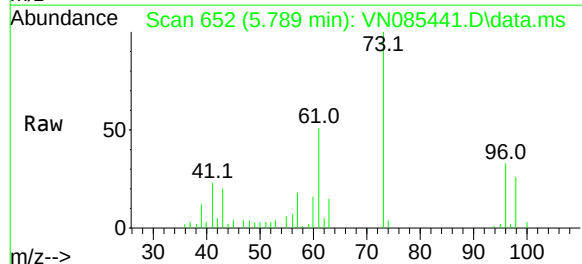
57 18.1 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 9.379 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion: 84 Resp: 23723

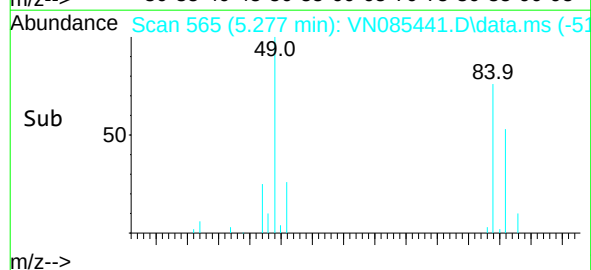
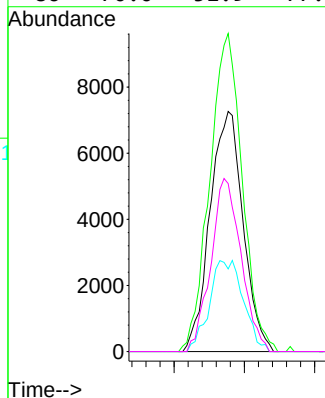
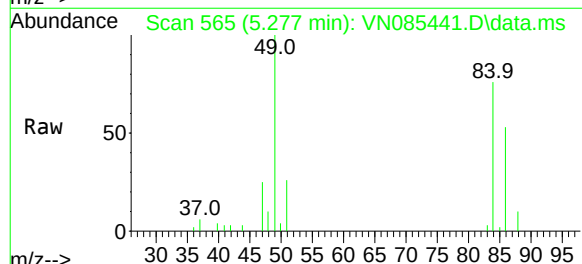
Ion Ratio Lower Upper

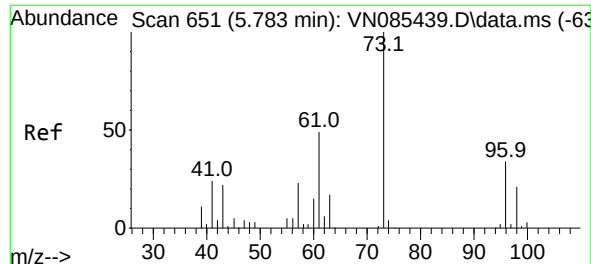
84 100

49 132.4 104.1 156.1

51 34.4 31.0 46.4

86 70.0 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 9.403 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085441.D

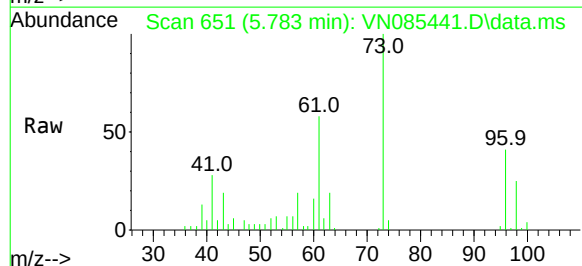
Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

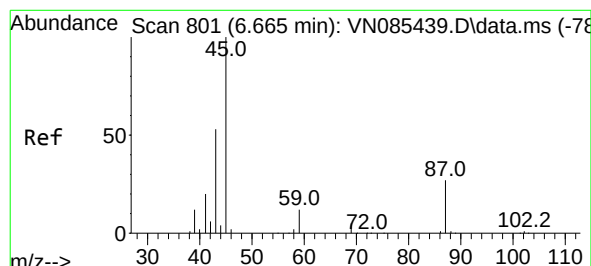
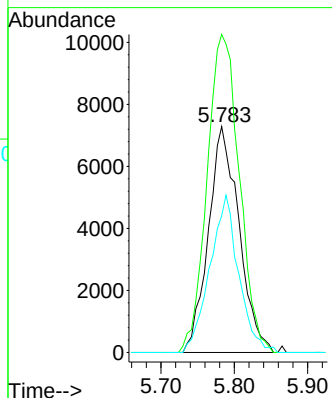
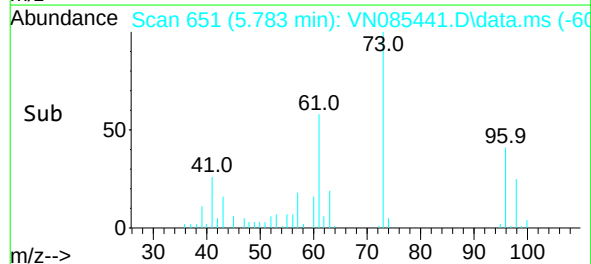
VSTDIC010



Tgt Ion:	96	Resp:	21127
Ion	Ratio	Lower	Upper
96	100		
61	140.8	115.7	173.5
98	60.5	49.8	74.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

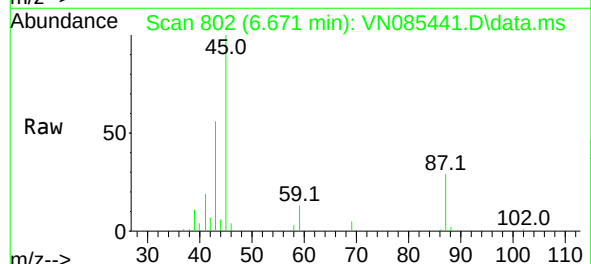
Concen: 9.490 ug/l

RT: 6.671 min Scan# 802

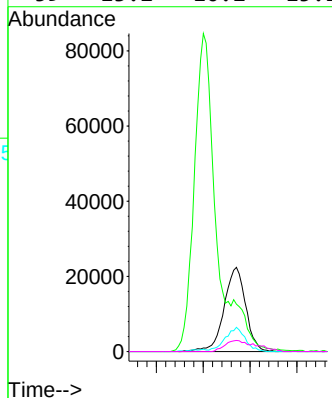
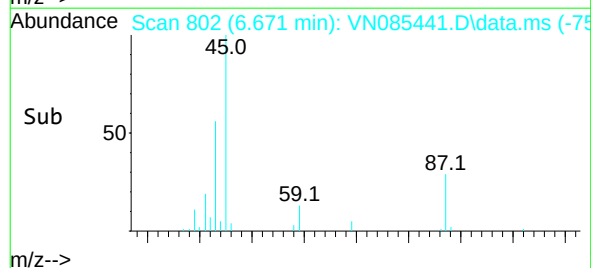
Delta R.T. 0.006 min

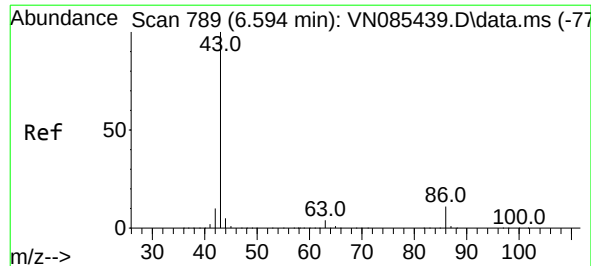
Lab File: VN085441.D

Acq: 14 Jan 2025 16:07



Tgt Ion:	45	Resp:	71857
Ion	Ratio	Lower	Upper
45	100		
43	53.2	45.0	67.6
87	28.8	21.8	32.8
59	13.2	10.2	15.2





#23

Vinyl Acetate

Concen: 47.125 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 250575

Ion Ratio Lower Upper

43 100

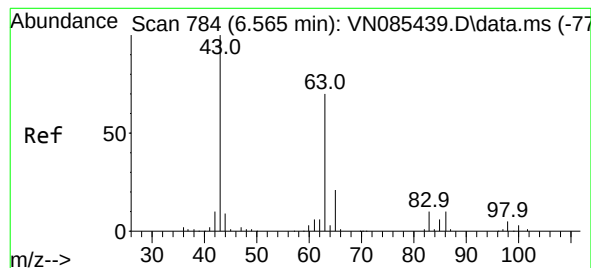
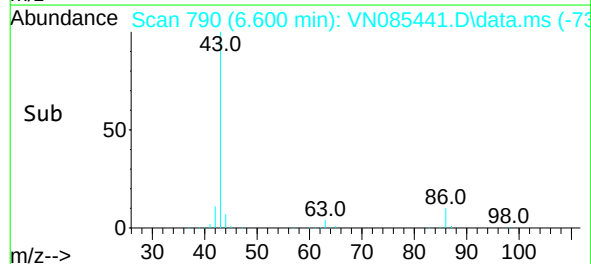
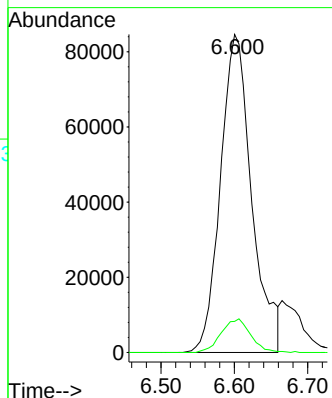
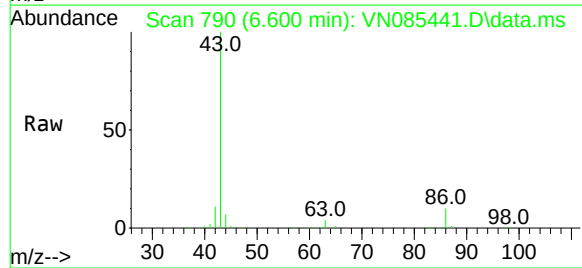
86 9.8 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 9.335 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

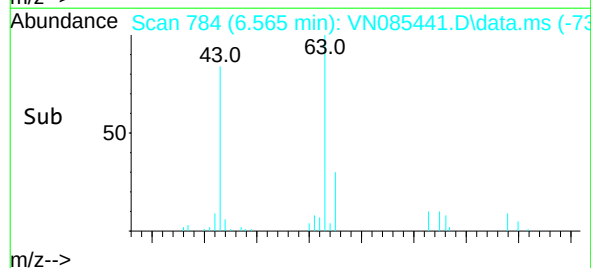
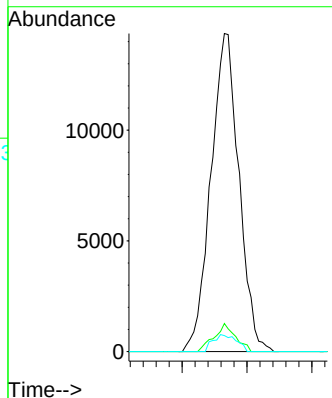
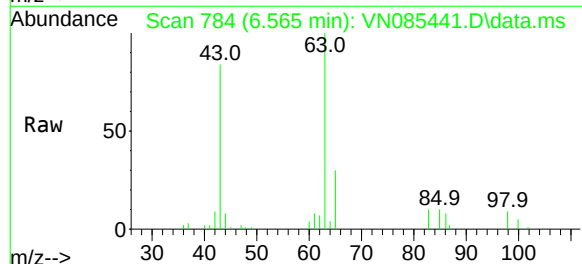
Tgt Ion: 63 Resp: 43099

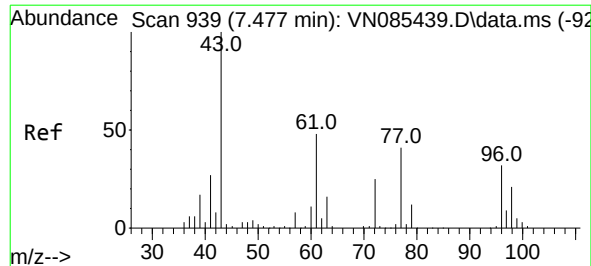
Ion Ratio Lower Upper

63 100

98 8.8 3.3 9.8

100 5.0 2.0 6.0





#25

2-Butanone

Concen: 47.350 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 71191

Ion Ratio Lower Upper

43 100

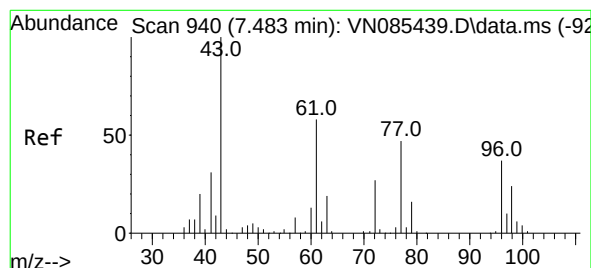
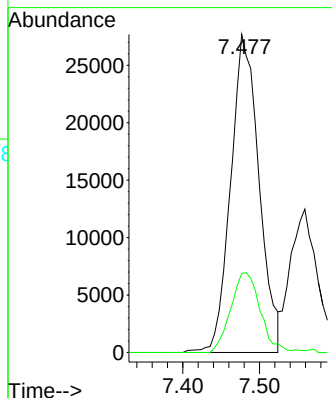
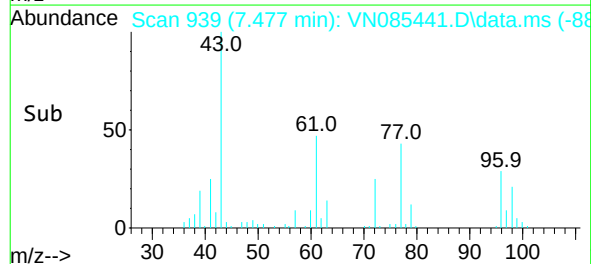
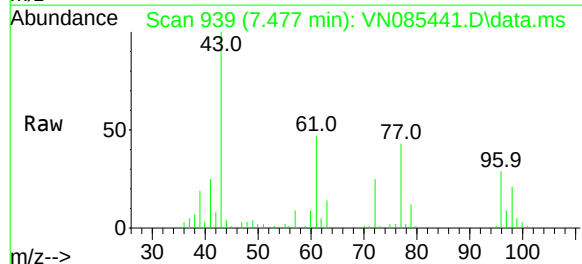
72 24.8 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 9.672 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085441.D

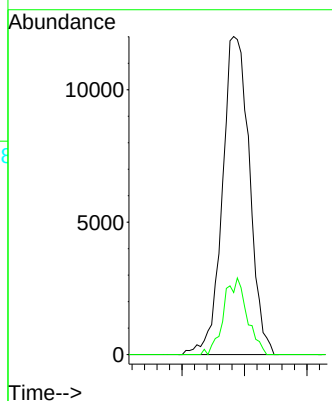
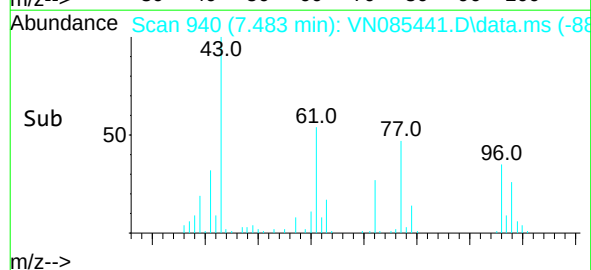
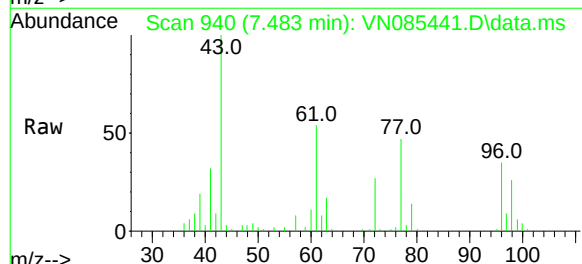
Acq: 14 Jan 2025 16:07

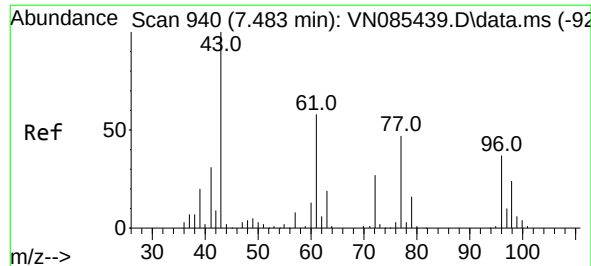
Tgt Ion: 77 Resp: 36105

Ion Ratio Lower Upper

77 100

97 20.8 10.7 32.1





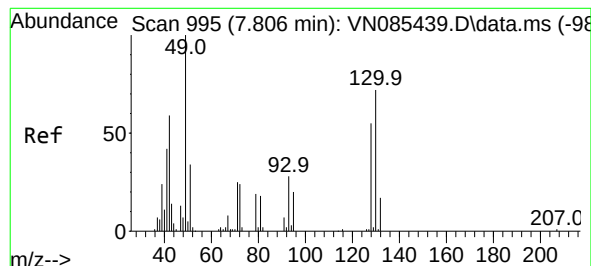
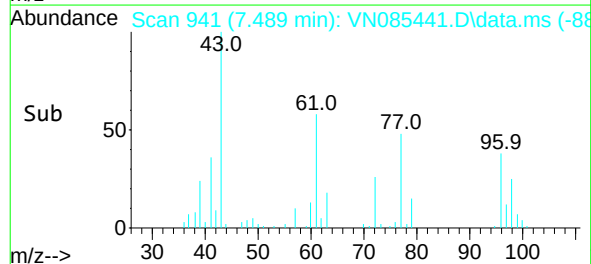
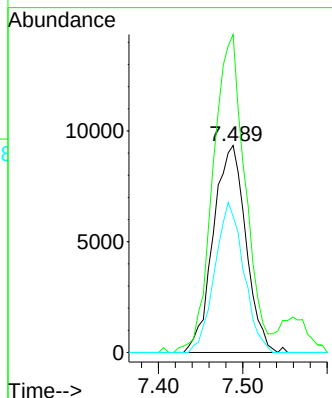
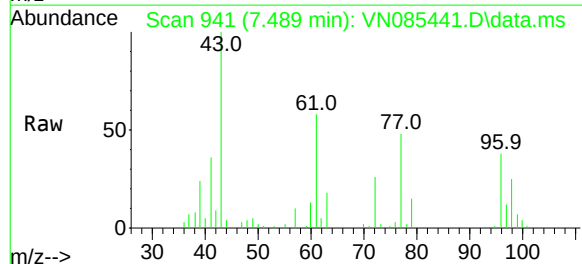
#27
cis-1,2-Dichloroethene
Concen: 9.466 ug/l
RT: 7.489 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.8	0.0	311.8
98	64.7	0.0	126.0

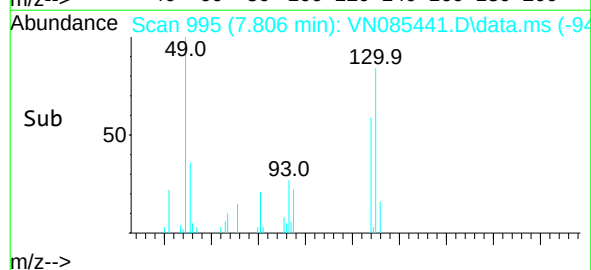
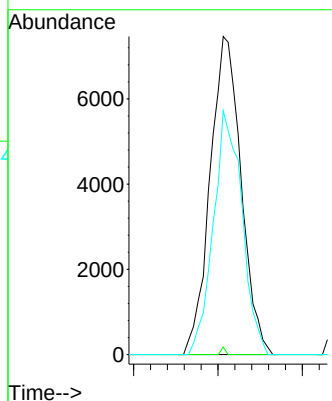
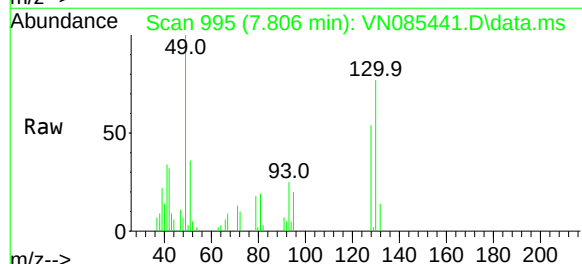
Manual Integrations
APPROVED

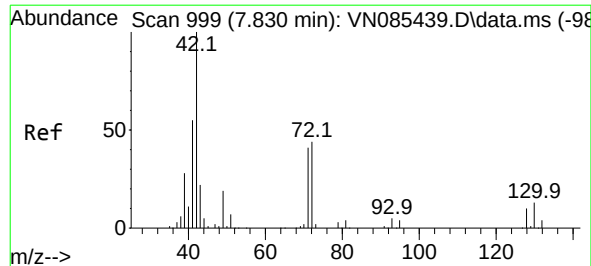
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 8.863 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.3	0.0	4.4
130	70.8	55.0	82.4





#29

Tetrahydrofuran

Concen: 47.881 ug/l

RT: 7.836 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

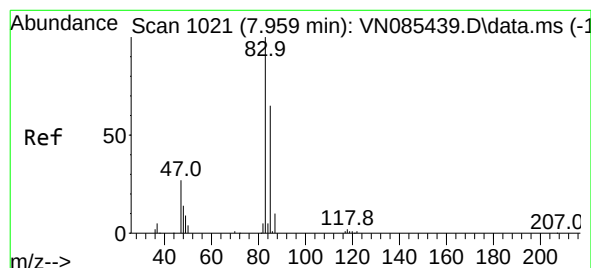
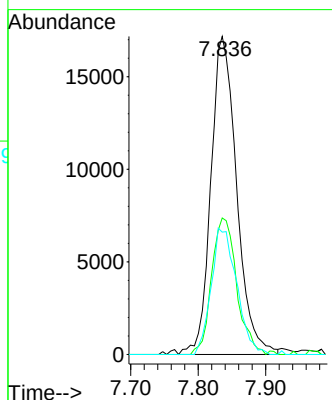
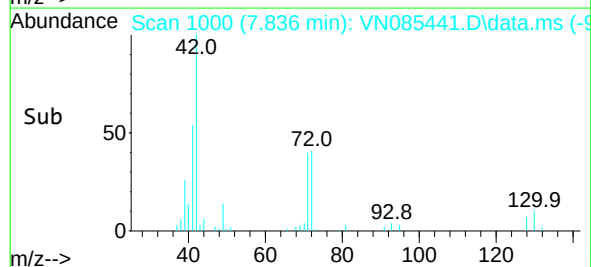
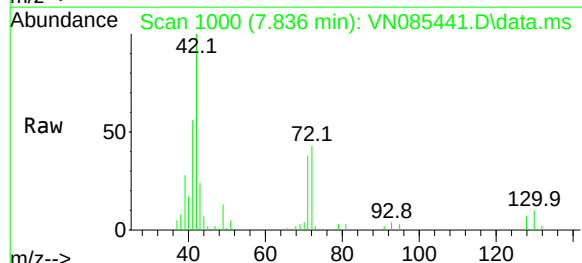
ClientSampleId :

VSTDICC010

Tgt Ion:	42	Resp:	45641
Ion	Ratio	Lower	Upper
42	100		
72	41.6	34.2	51.2
71	39.2	32.5	48.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 9.596 ug/l

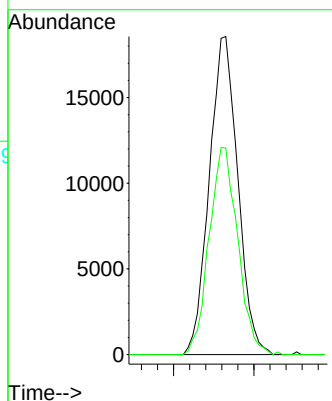
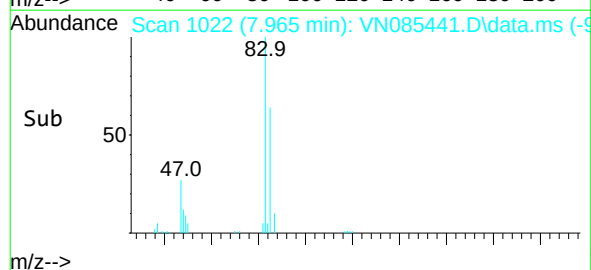
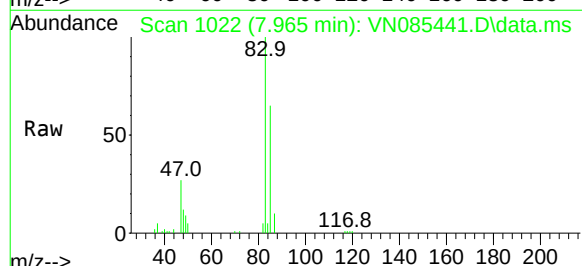
RT: 7.965 min Scan# 1022

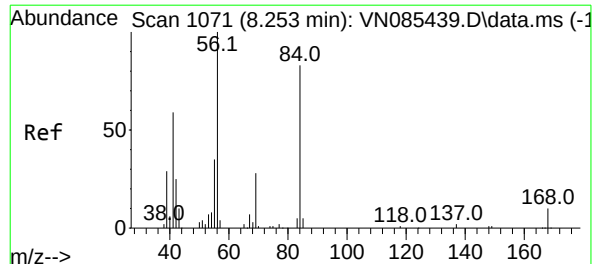
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	83	Resp:	45792
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.8	77.6





#31

Cyclohexane

Concen: 10.020 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 40211

Ion Ratio Lower Upper

56 100

69 34.2 22.2 33.4

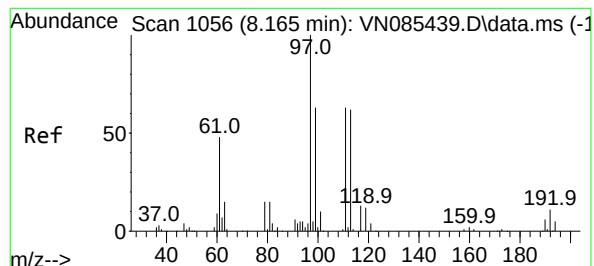
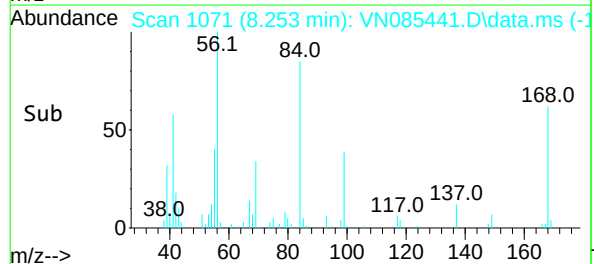
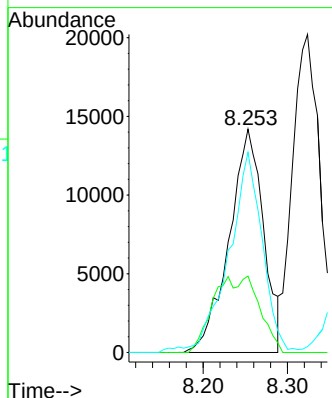
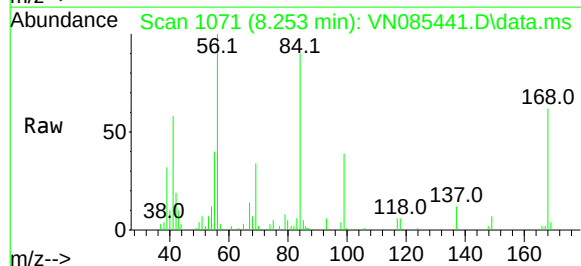
84 87.2 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 9.358 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

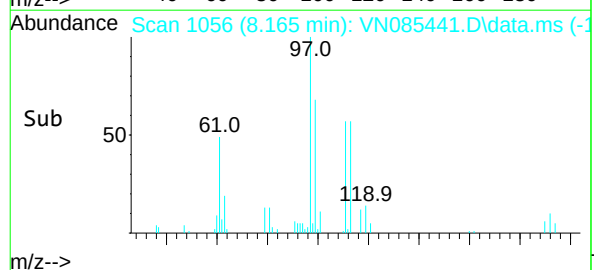
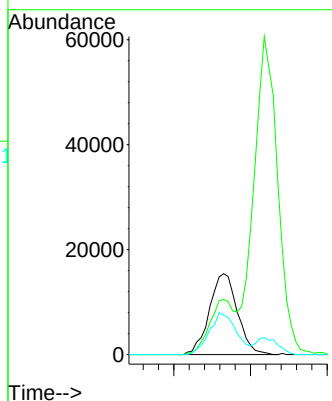
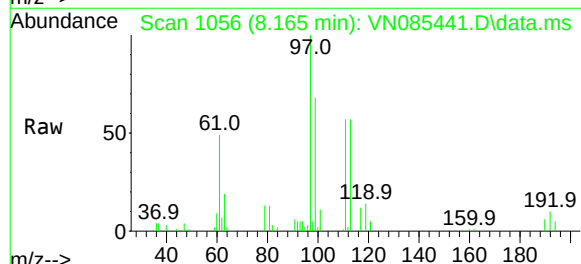
Tgt Ion: 97 Resp: 39170

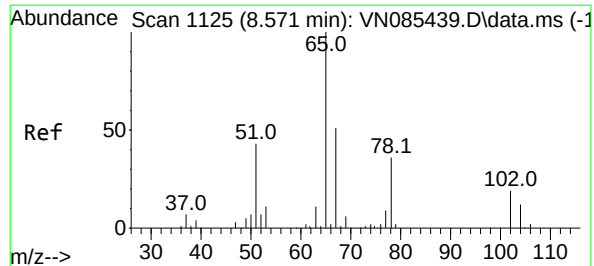
Ion Ratio Lower Upper

97 100

99 62.6 49.8 74.6

61 50.2 41.4 62.2





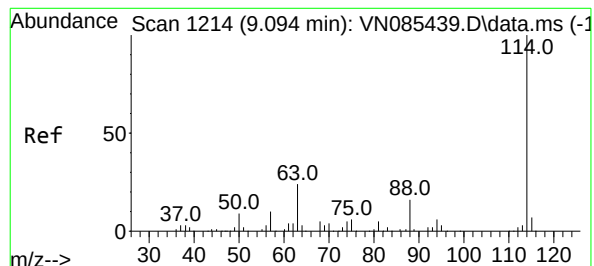
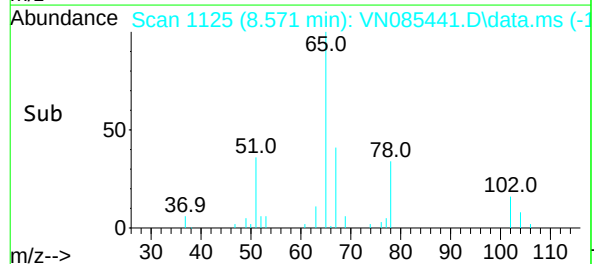
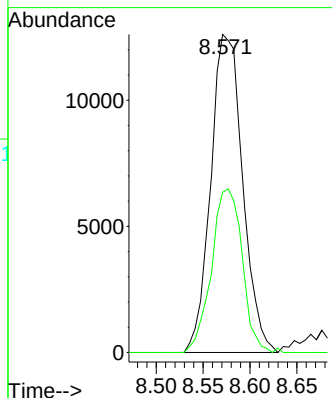
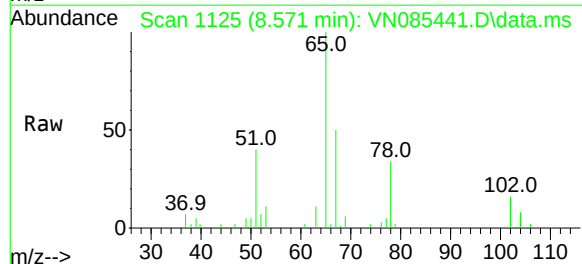
#33
1,2-Dichloroethane-d4
Concen: 9.442 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 29856
Ion Ratio Lower Upper
65 100
67 49.5 0.0 101.6

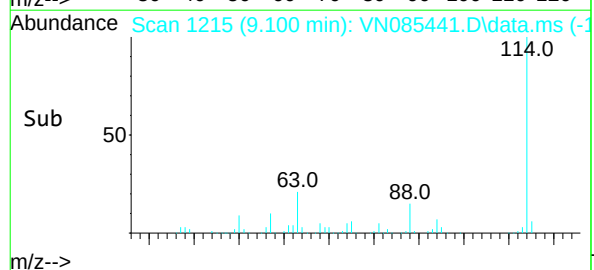
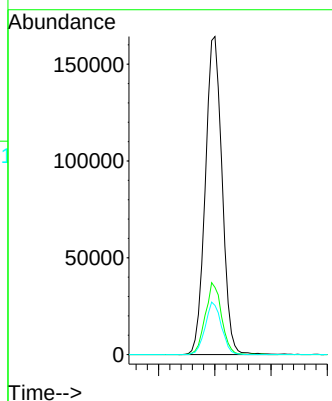
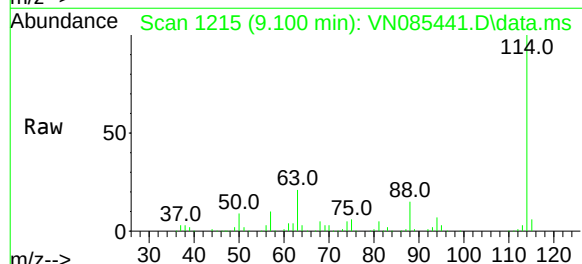
Manual Integrations
APPROVED

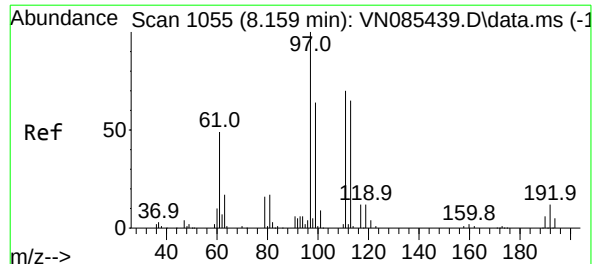
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:114 Resp: 340403
Ion Ratio Lower Upper
114 100
63 21.1 0.0 47.6
88 15.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 8.939 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 113 Resp: 21110

Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

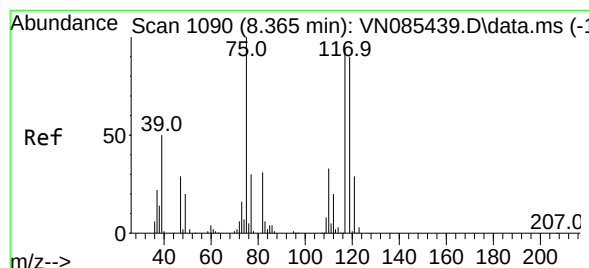
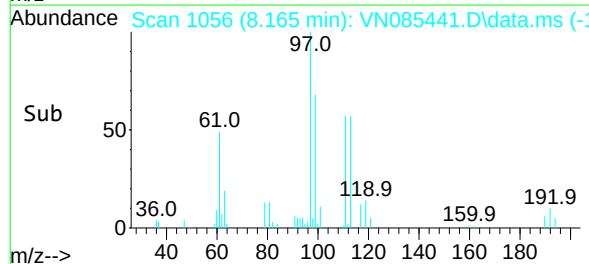
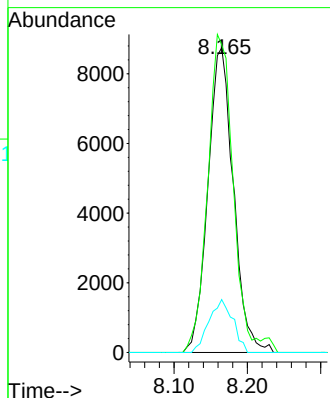
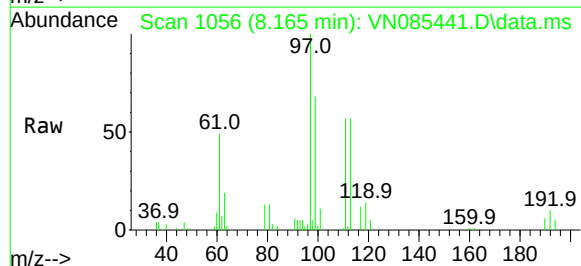
192 16.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 9.056 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

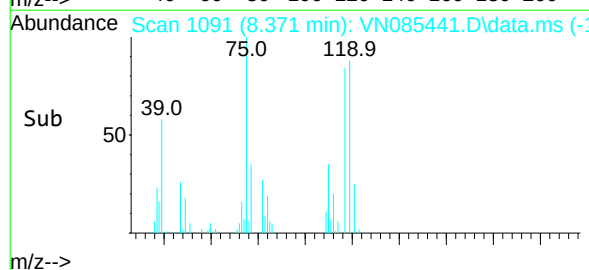
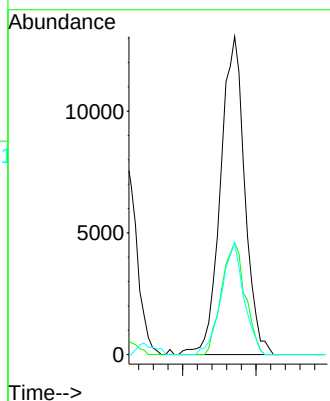
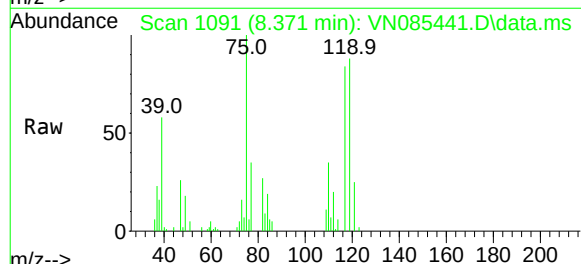
Tgt Ion: 75 Resp: 30015

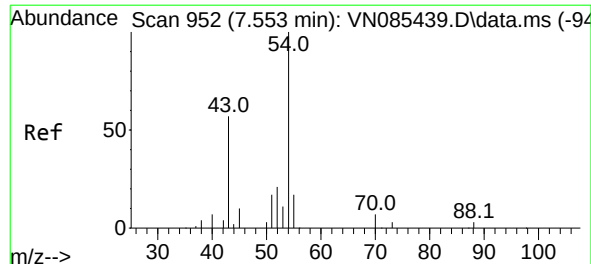
Ion Ratio Lower Upper

75 100

110 34.3 16.5 49.5

77 32.9 24.4 36.6





#37

Ethyl Acetate

Concen: 9.195 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

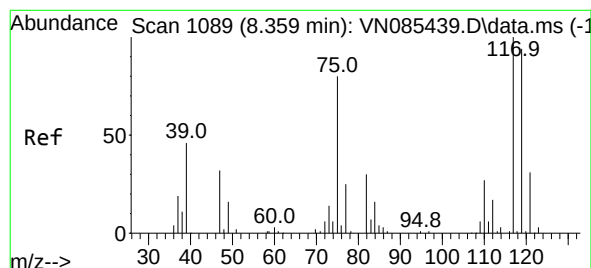
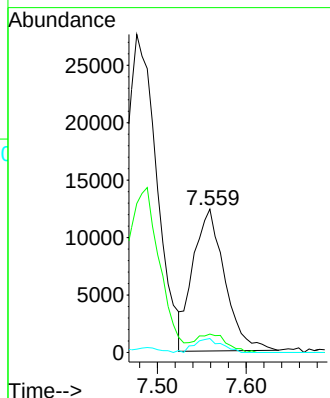
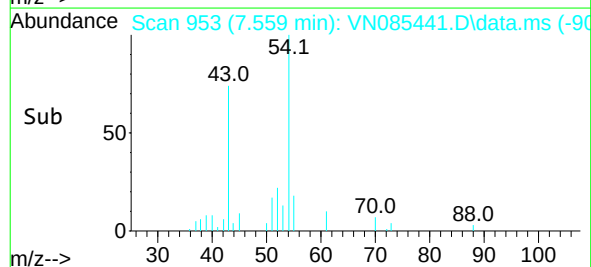
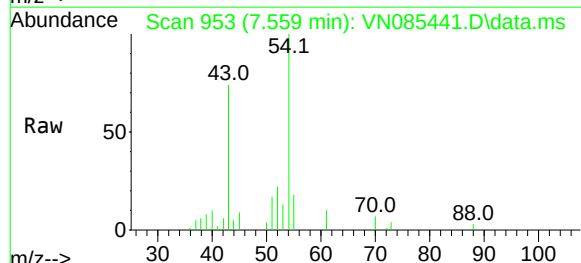
ClientSampleId :

VSTDIC010

Tgt Ion:	43	Resp:	30760
Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.9	16.3
70	8.4	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 9.492 ug/l

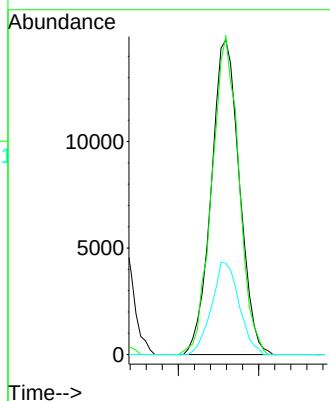
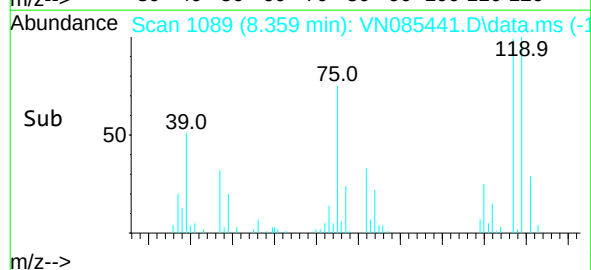
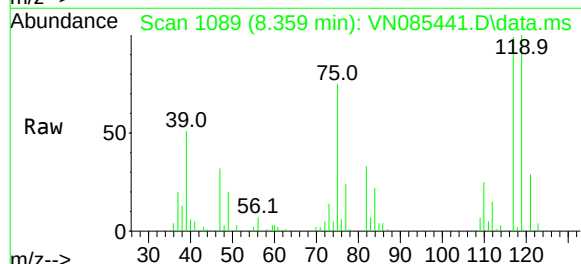
RT: 8.359 min Scan# 1089

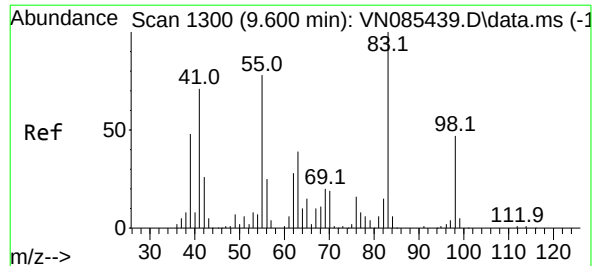
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	117	Resp:	36015
Ion	Ratio	Lower	Upper
117	100		
119	101.2	75.4	113.2
121	29.1	24.6	37.0





#39

Methylcyclohexane

Concen: 8.900 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 83 Resp: 27721

Ion Ratio Lower Upper

83 100

55 83.8 62.6 94.0

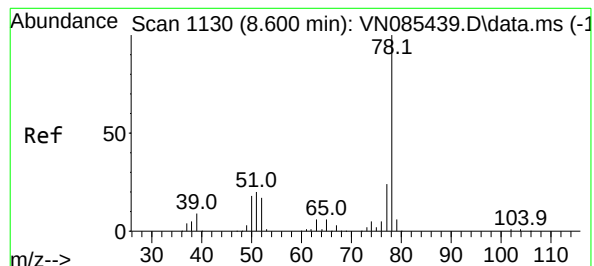
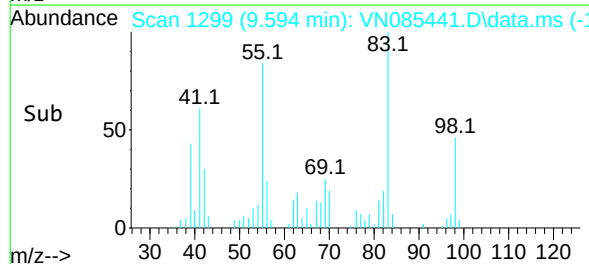
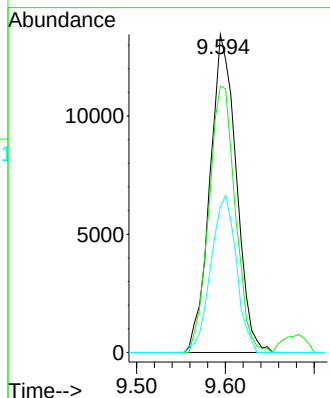
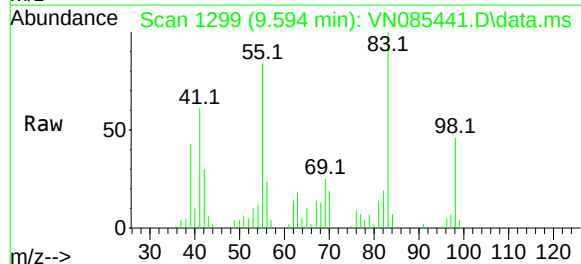
98 45.8 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 9.407 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085441.D

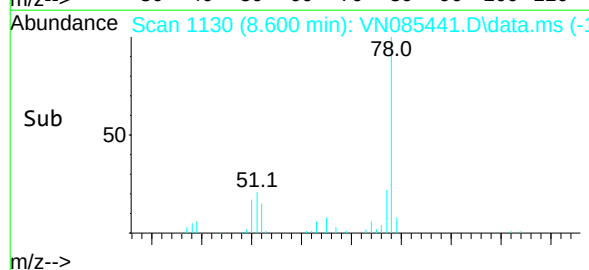
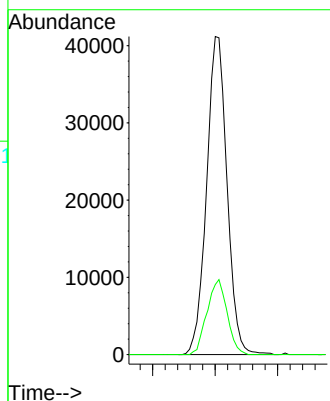
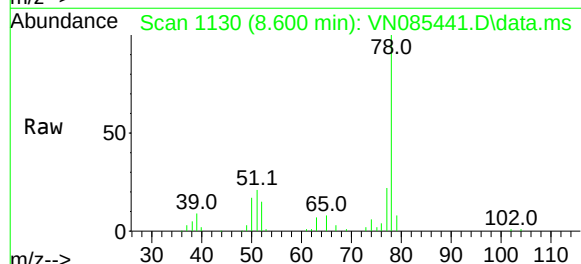
Acq: 14 Jan 2025 16:07

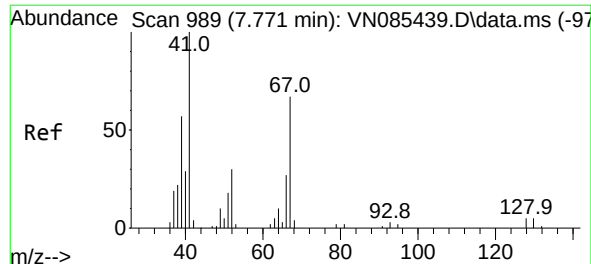
Tgt Ion: 78 Resp: 93680

Ion Ratio Lower Upper

78 100

77 22.0 19.0 28.6





#41

Methacrylonitrile

Concen: 9.686 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

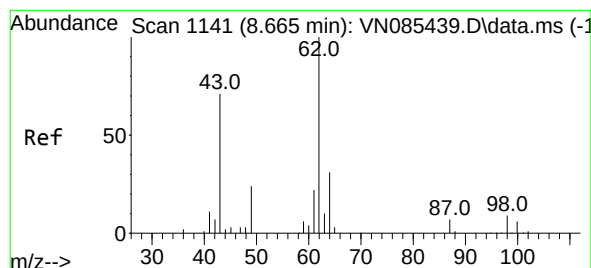
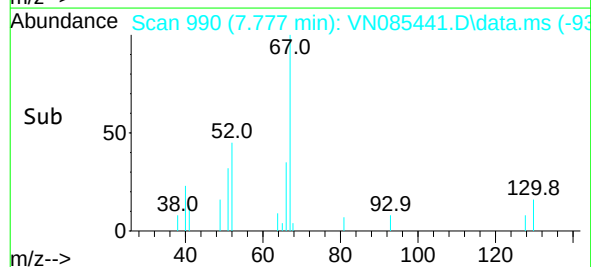
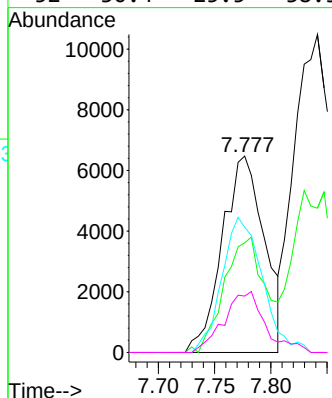
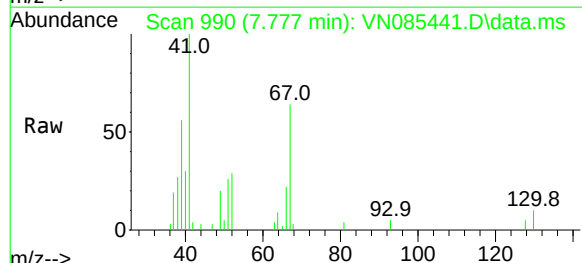
ClientSampleId :

VSTDICC010

Tgt Ion:	41	Resp:	16859
Ion	Ratio	Lower	Upper
41	100		
39	57.3	46.0	69.0
67	66.2	57.4	86.2
52	30.4	25.5	38.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 9.483 ug/l

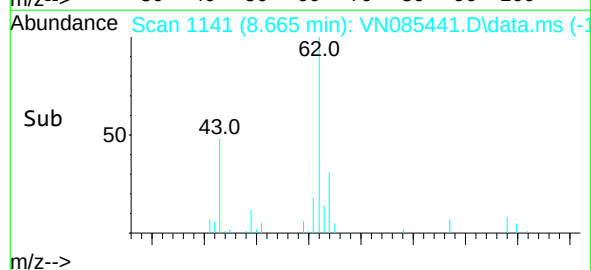
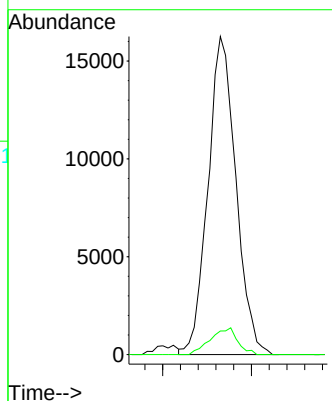
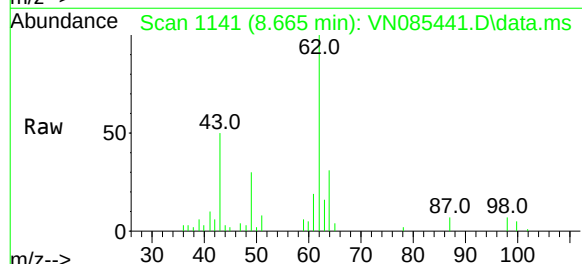
RT: 8.665 min Scan# 1141

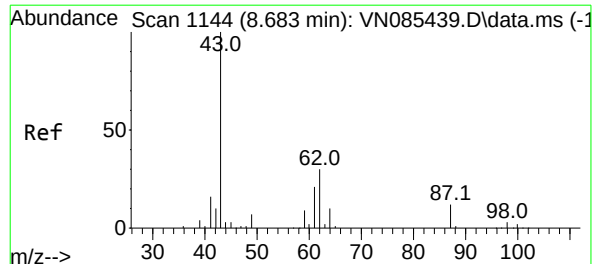
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	62	Resp:	35569
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0





#43

Isopropyl Acetate

Concen: 9.127 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 48926

Ion Ratio Lower Upper

43 100

61 26.2 20.7 31.1

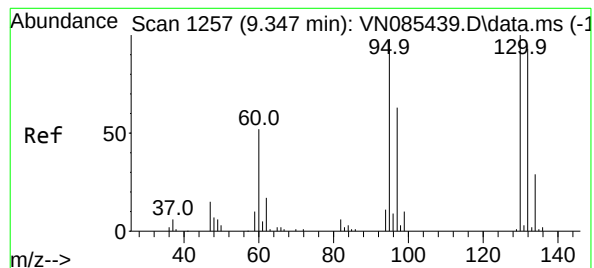
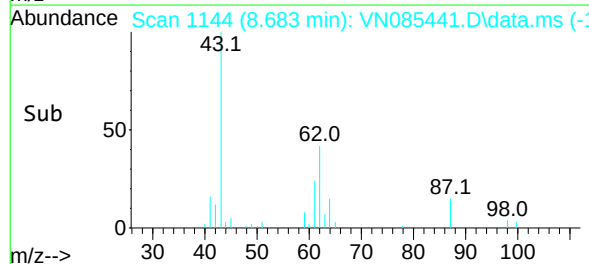
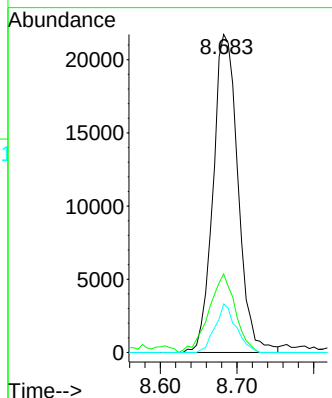
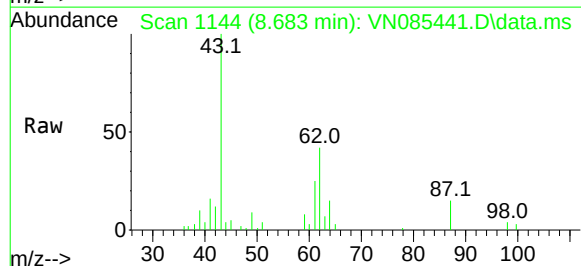
87 12.8 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 9.108 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085441.D

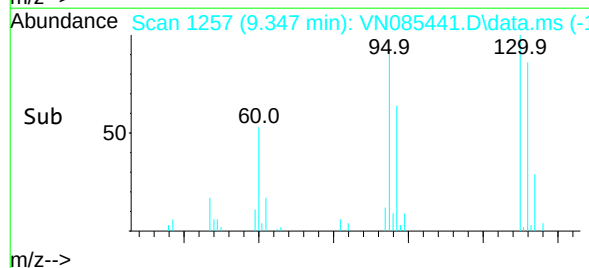
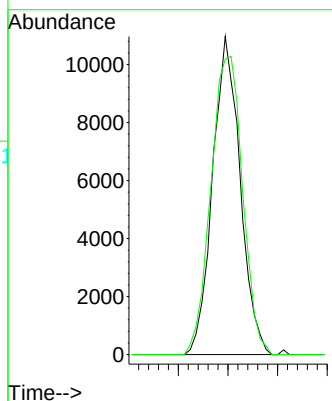
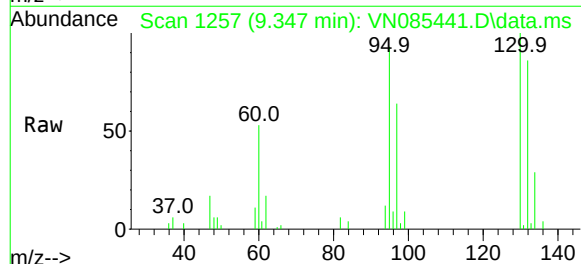
Acq: 14 Jan 2025 16:07

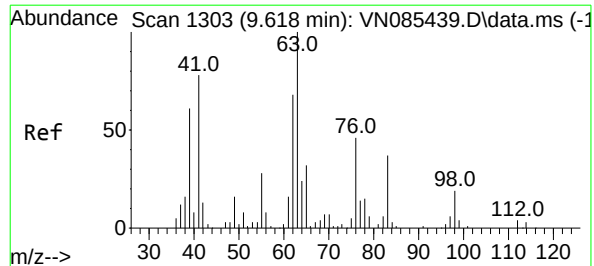
Tgt Ion:130 Resp: 21113

Ion Ratio Lower Upper

130 100

95 92.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 8.942 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 63 Resp: 22747

Ion Ratio Lower Upper

63 100

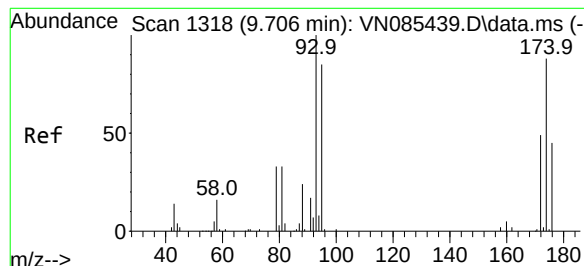
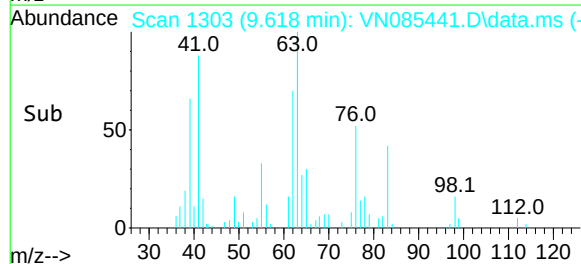
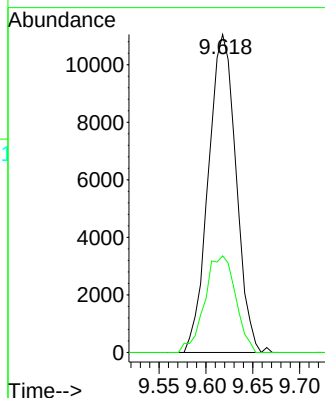
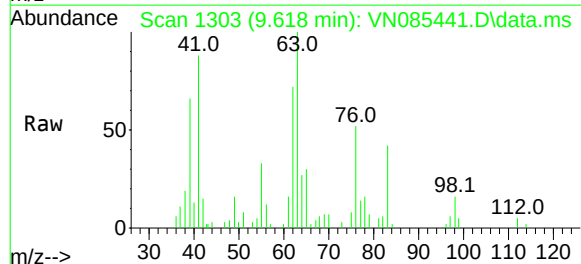
65 30.4 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 9.404 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

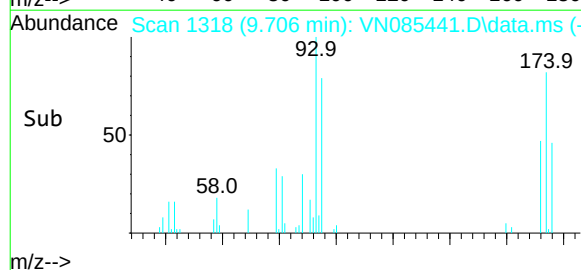
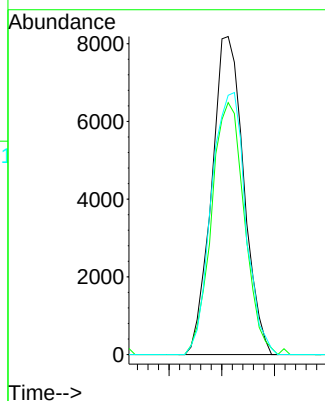
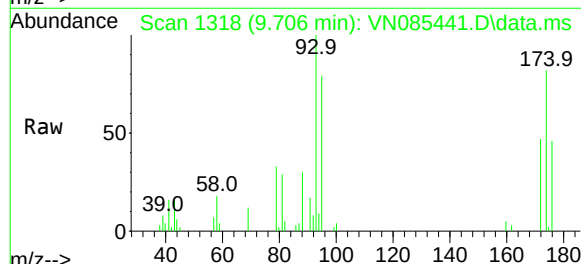
Tgt Ion: 93 Resp: 17260

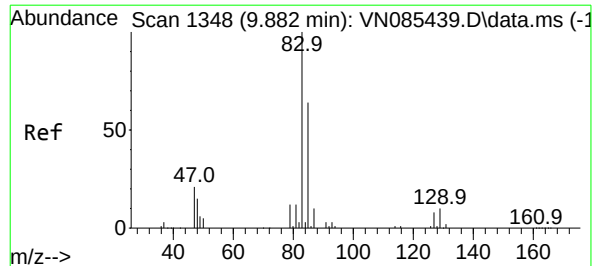
Ion Ratio Lower Upper

93 100

95 81.5 64.7 97.1

174 87.8 69.0 103.4





#47

Bromodichloromethane

Concen: 9.365 ug/l

RT: 9.883 min Scan# 1313

Delta R.T. 0.001 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

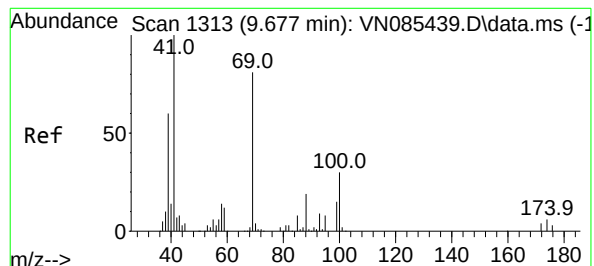
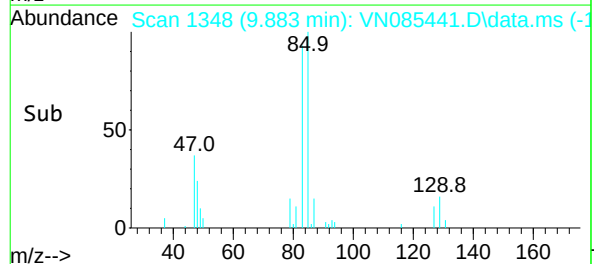
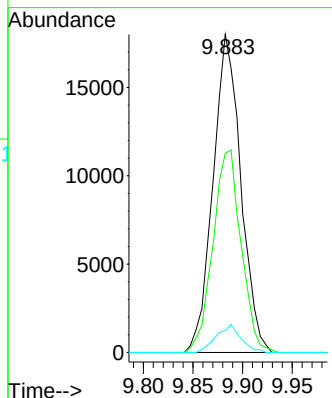
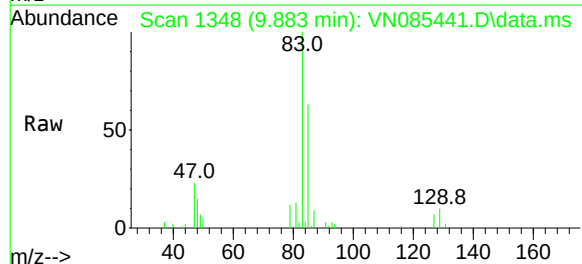
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	35020
Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.2	76.8
127	6.9	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 9.067 ug/l

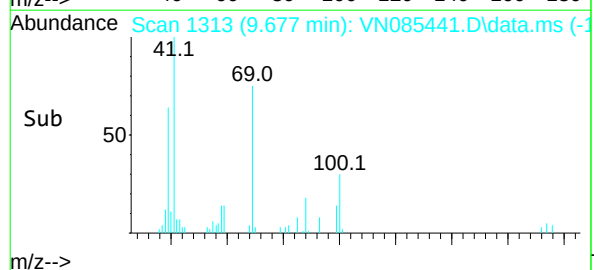
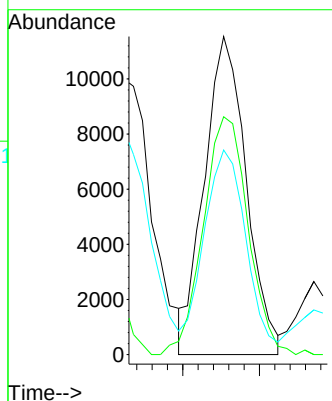
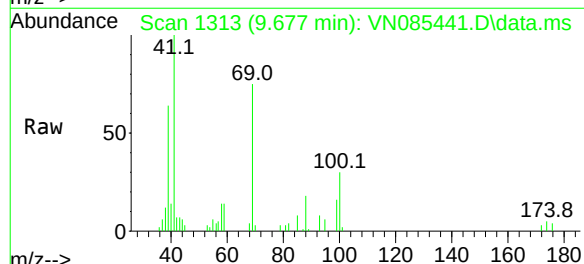
RT: 9.677 min Scan# 1313

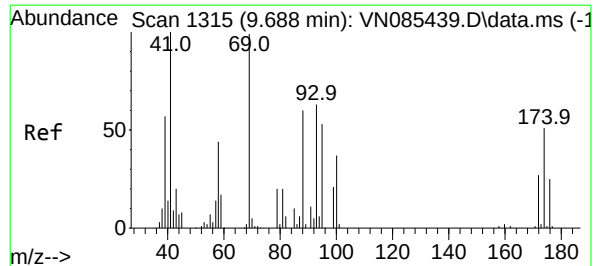
Delta R.T. -0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	41	Resp:	21873
Ion	Ratio	Lower	Upper
41	100		
69	80.0	64.7	97.1
39	65.2	49.0	73.6





#49

1,4-Dioxane

Concen: 190.382 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 88 Resp: 7734

Ion Ratio Lower Upper

88 100

43 35.2 26.6 39.8

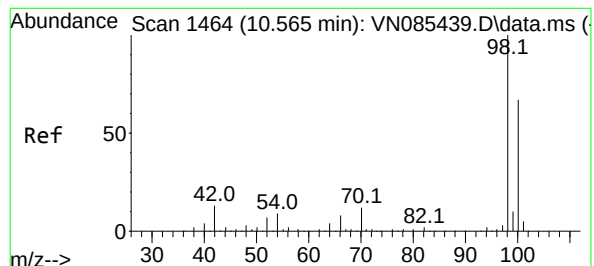
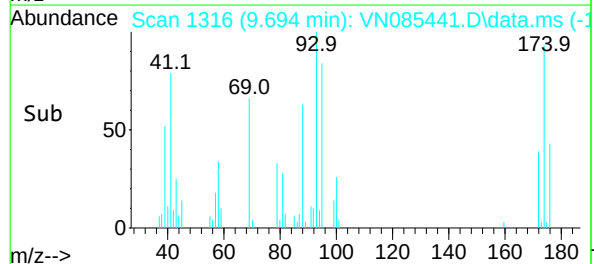
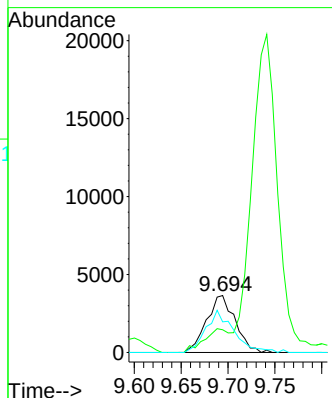
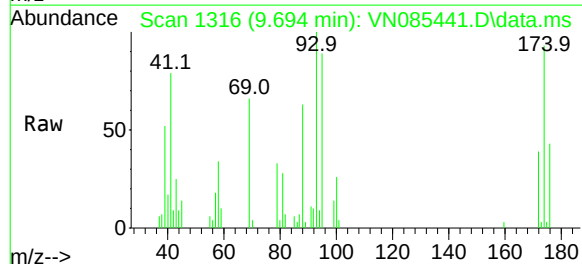
58 73.3 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 8.727 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085441.D

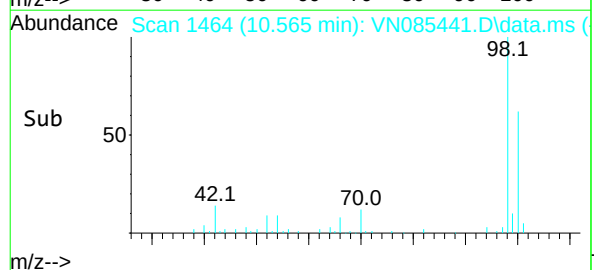
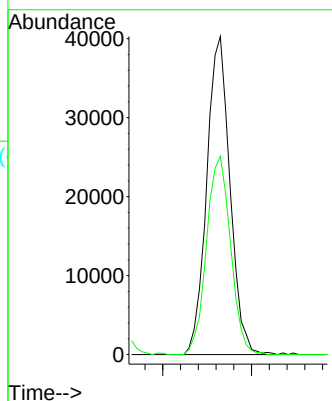
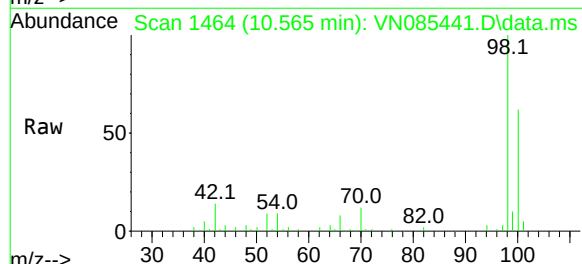
Acq: 14 Jan 2025 16:07

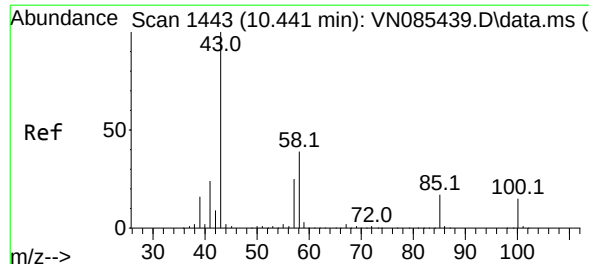
Tgt Ion: 98 Resp: 73223

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 47.254 ug/l

RT: 10.441 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 146990

Ion Ratio Lower Upper

43 100

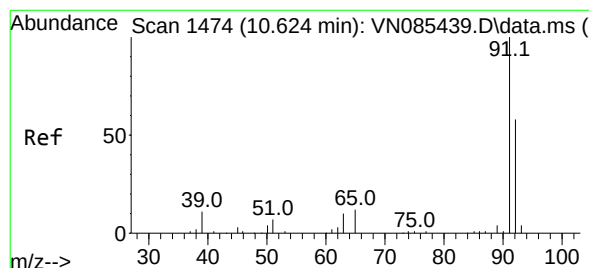
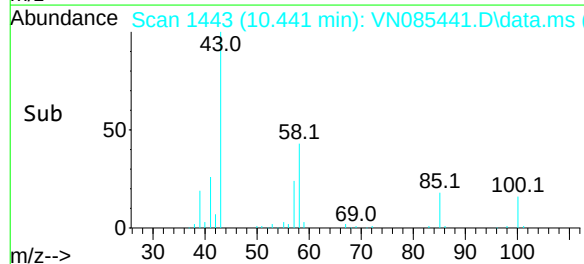
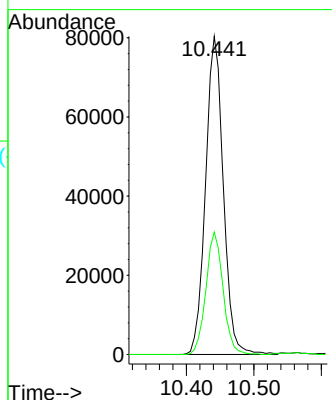
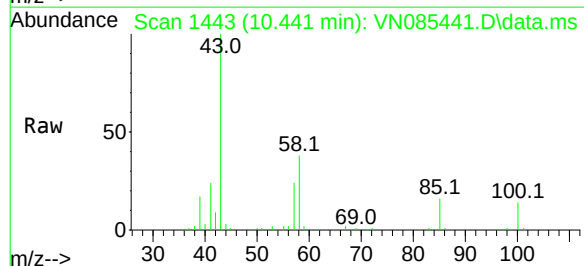
58 37.1 30.5 45.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#52

Toluene

Concen: 9.527 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN085441.D

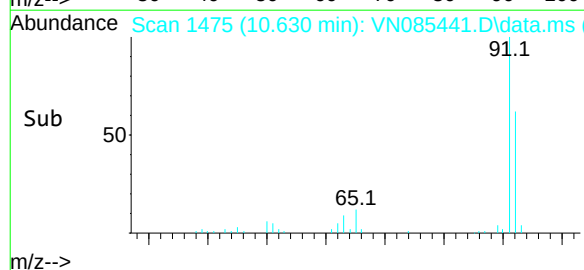
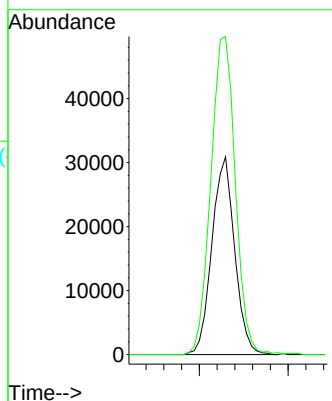
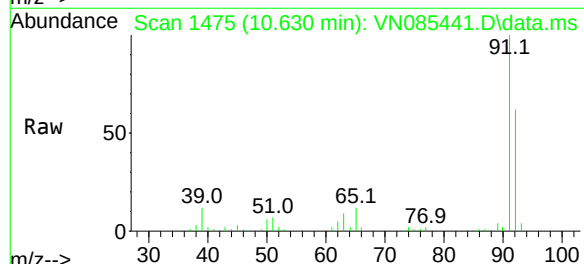
Acq: 14 Jan 2025 16:07

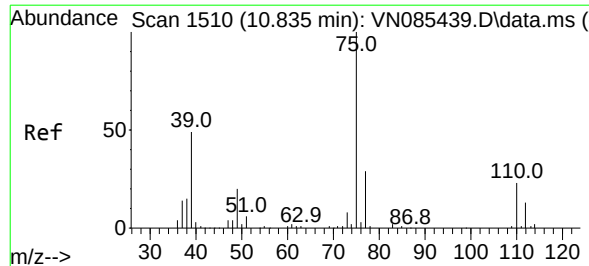
Tgt Ion: 92 Resp: 54976

Ion Ratio Lower Upper

92 100

91 173.7 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 9.276 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 75 Resp: 32780

Ion Ratio Lower Upper

75 100

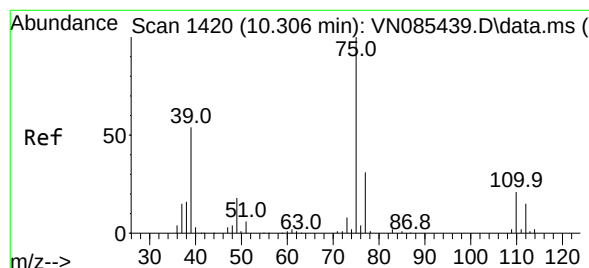
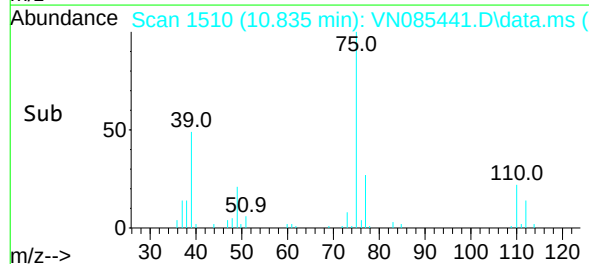
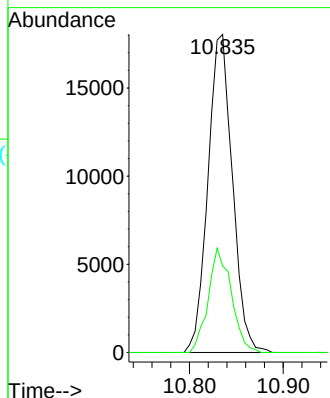
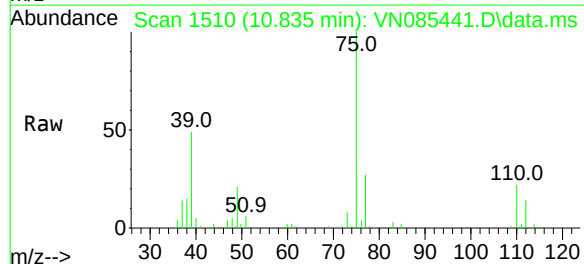
77 27.2 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 9.512 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

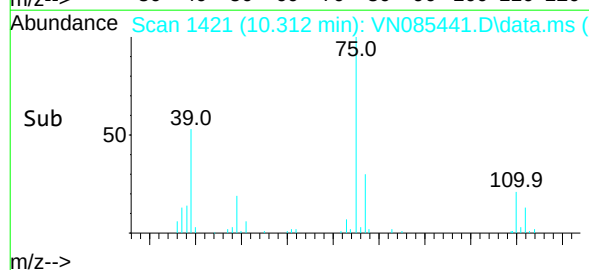
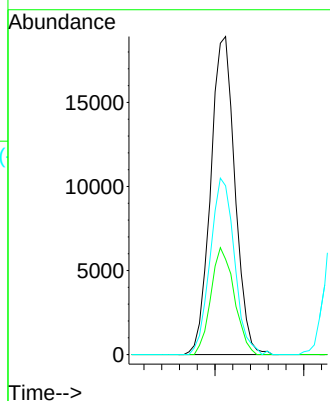
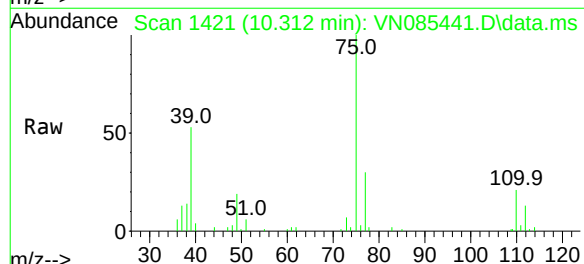
Tgt Ion: 75 Resp: 35904

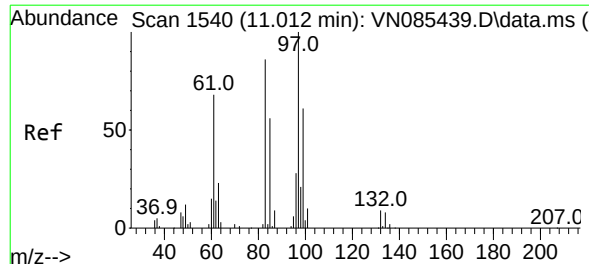
Ion Ratio Lower Upper

75 100

77 30.0 25.0 37.4

39 53.1 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 9.222 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 21060

Ion Ratio Lower Upper

97 100

83 88.3 69.0 103.6

85 57.3 44.6 66.8

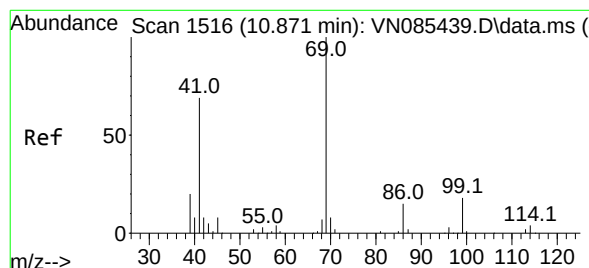
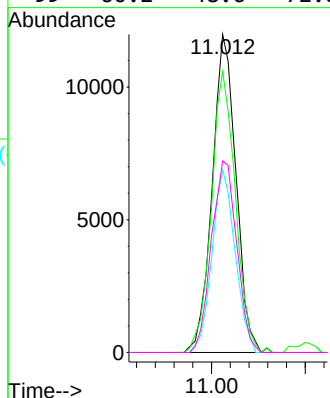
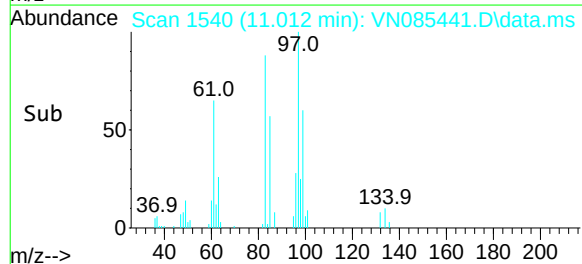
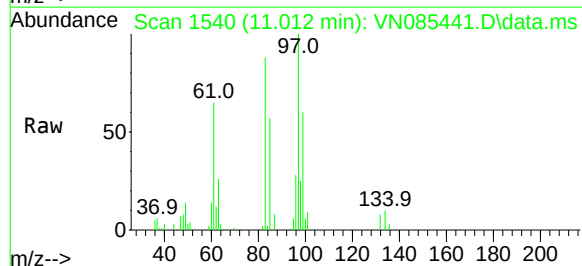
99 60.2 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 9.042 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

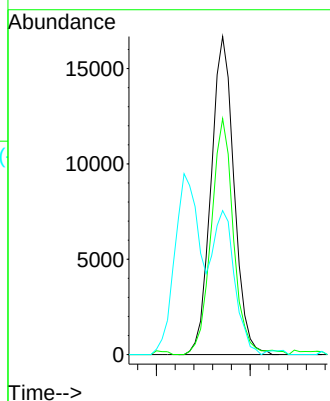
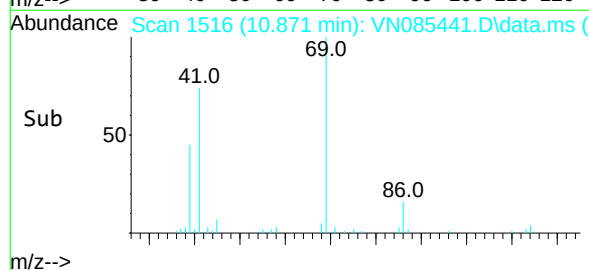
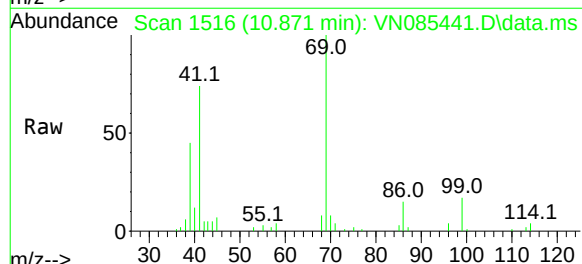
Tgt Ion: 69 Resp: 28454

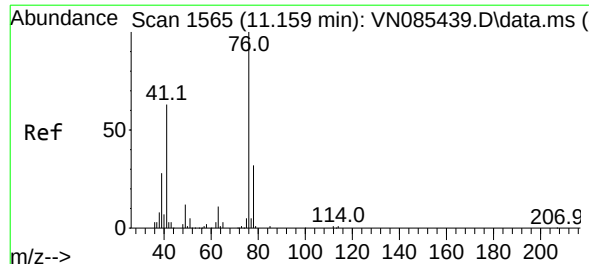
Ion Ratio Lower Upper

69 100

41 72.1 54.6 82.0

39 43.4 32.4 48.6





#57

1,3-Dichloropropane

Concen: 9.512 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 37768

Ion Ratio Lower Upper

76 100

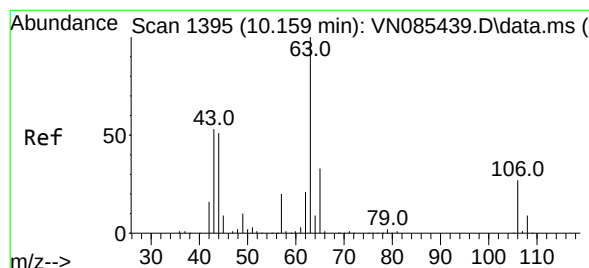
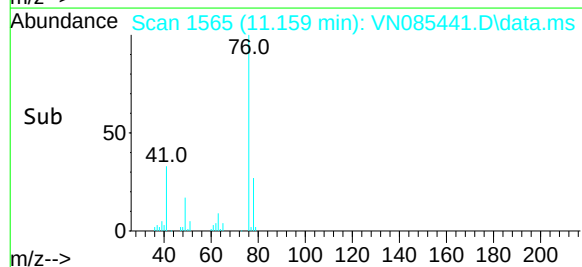
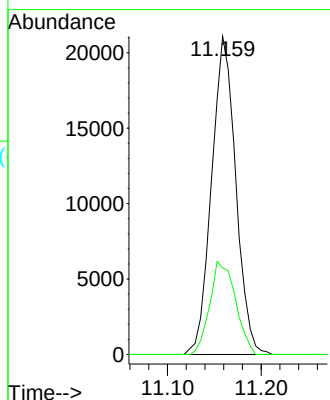
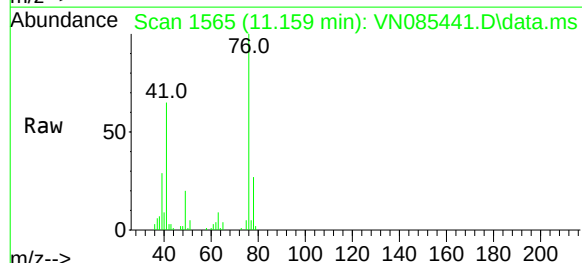
78 31.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 43.550 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085441.D

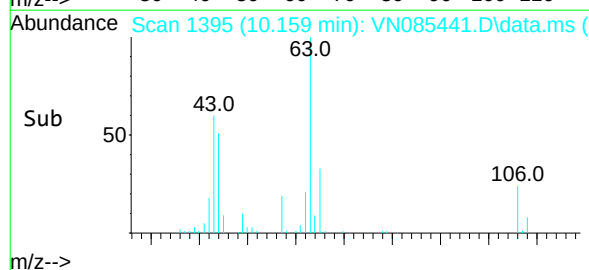
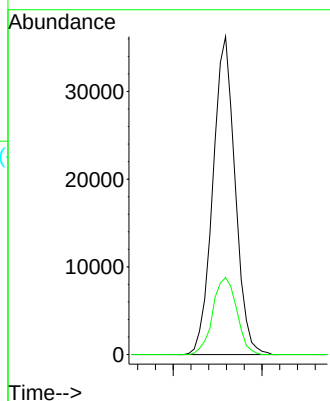
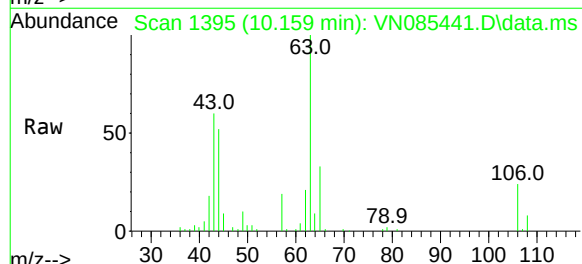
Acq: 14 Jan 2025 16:07

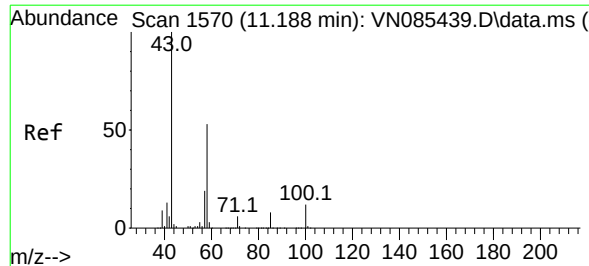
Tgt Ion: 63 Resp: 63110

Ion Ratio Lower Upper

63 100

106 26.1 21.6 32.4





#59

2-Hexanone

Concen: 46.291 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 101318

Ion Ratio Lower Upper

43 100

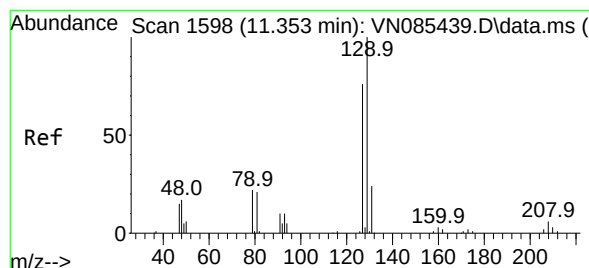
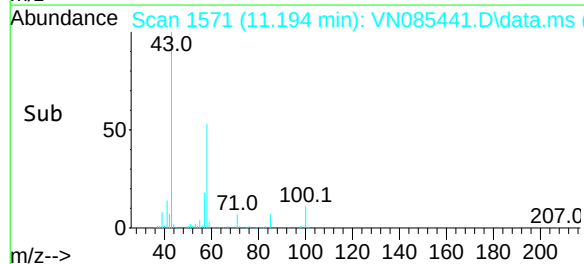
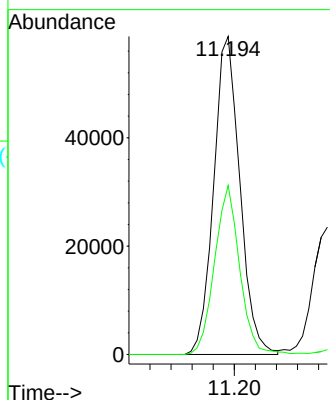
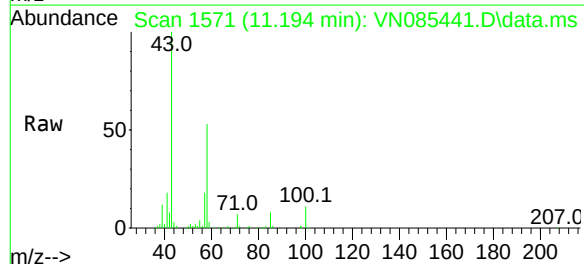
58 50.9 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 9.079 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085441.D

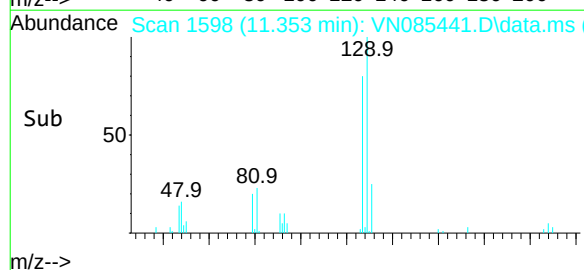
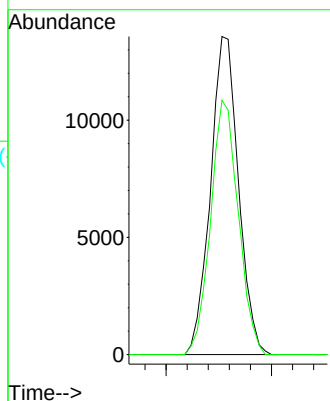
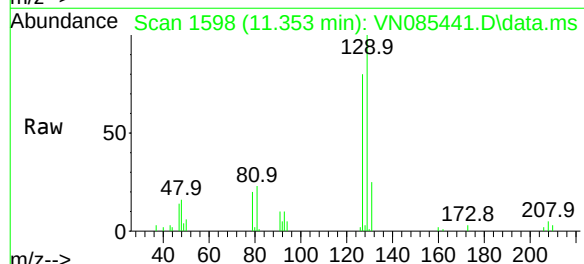
Acq: 14 Jan 2025 16:07

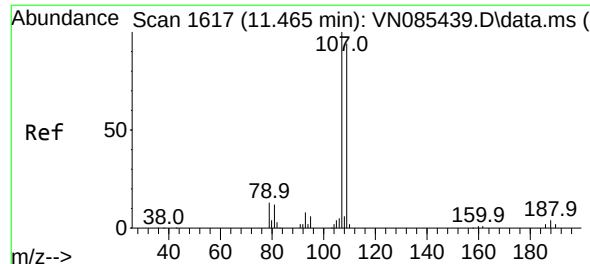
Tgt Ion:129 Resp: 25029

Ion Ratio Lower Upper

129 100

127 79.1 38.6 115.8





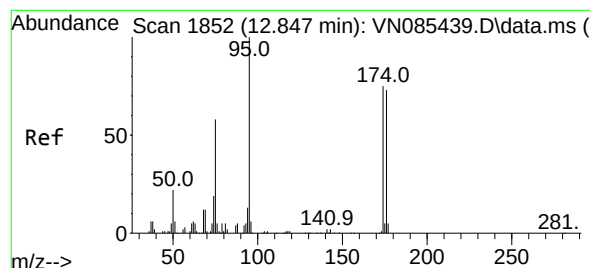
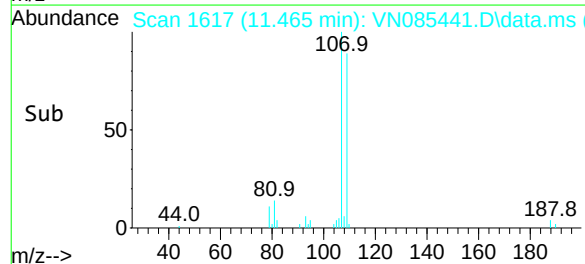
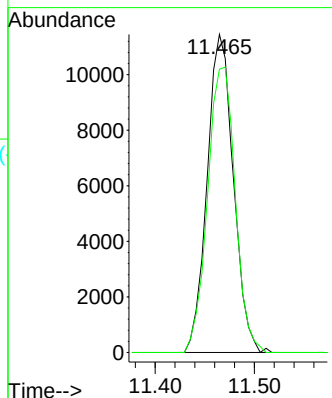
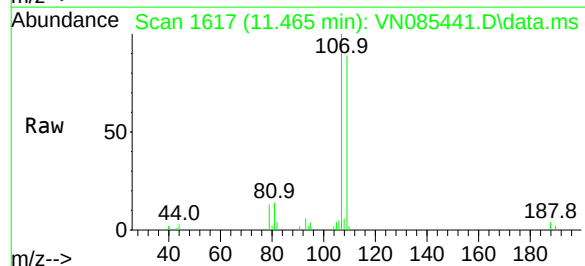
#61
1,2-Dibromoethane
Concen: 9.263 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 107 Resp: 21055
Ion Ratio Lower Upper
107 100
109 94.6 75.9 113.9

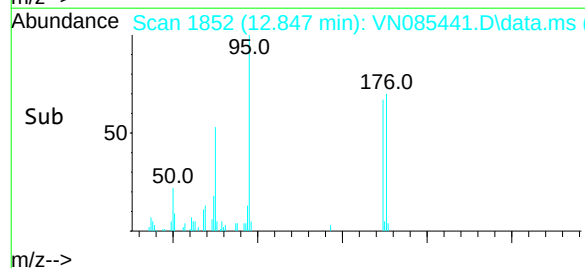
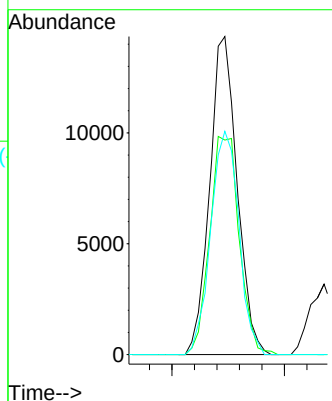
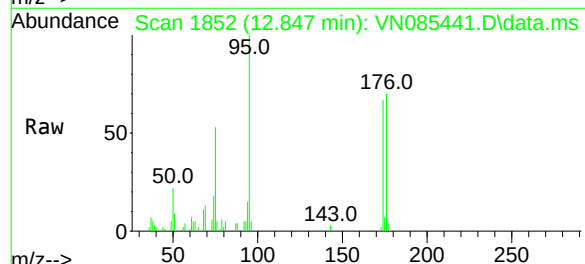
Manual Integrations
APPROVED

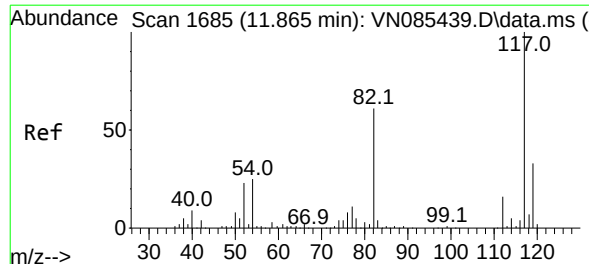
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 8.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 95 Resp: 24327
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.0
176 72.1 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:117 Resp: 294508

Ion Ratio Lower Upper

117 100

82 58.7 48.6 72.8

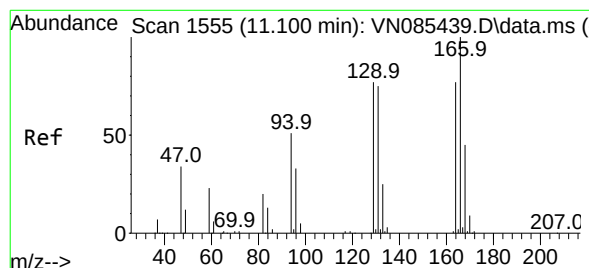
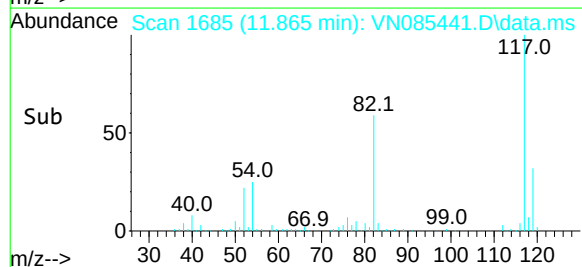
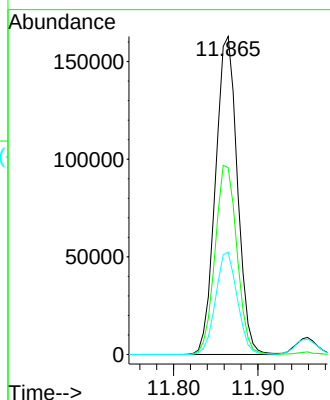
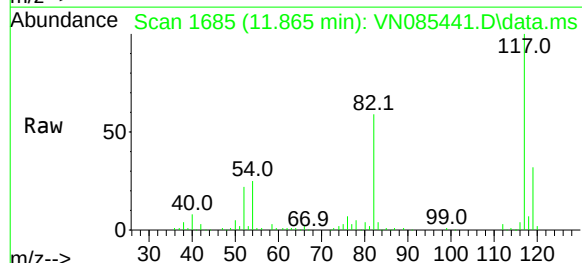
119 32.2 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 9.928 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:164 Resp: 19934

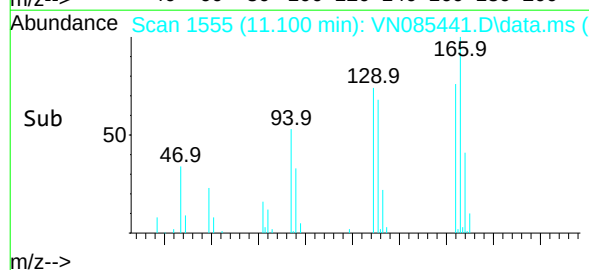
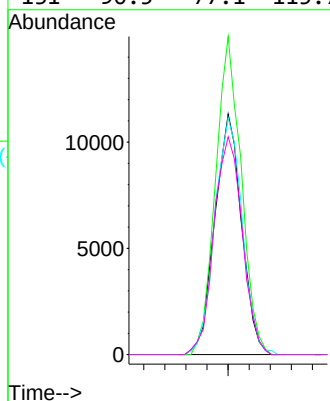
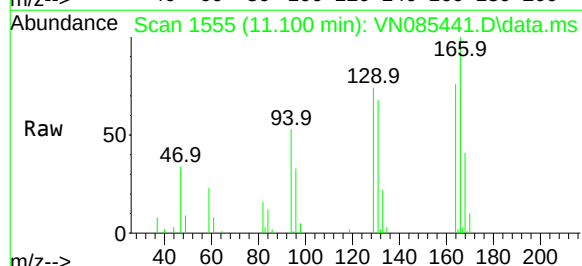
Ion Ratio Lower Upper

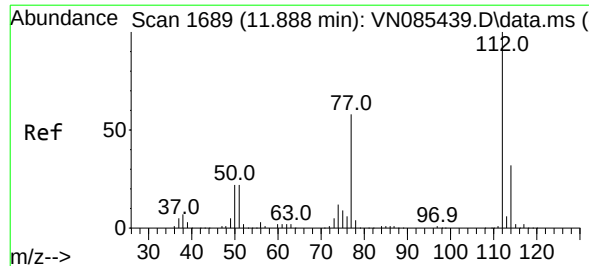
164 100

166 132.2 103.4 155.2

129 98.3 79.2 118.8

131 90.5 77.1 115.7





#65

Chlorobenzene

Concen: 9.560 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:112 Resp: 61680

Ion Ratio Lower Upper

112 100

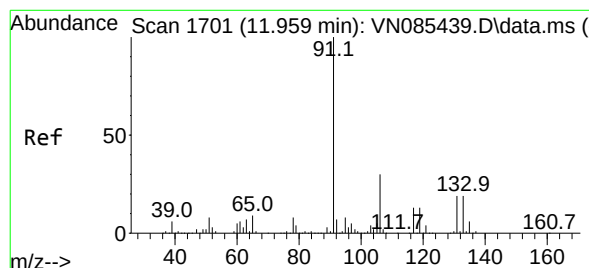
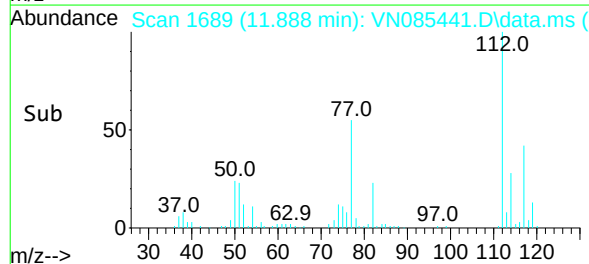
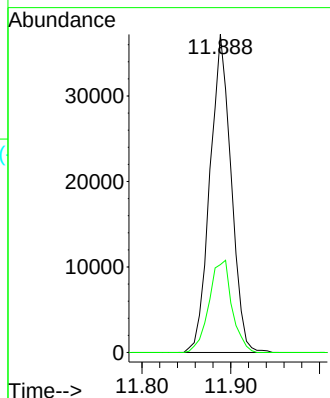
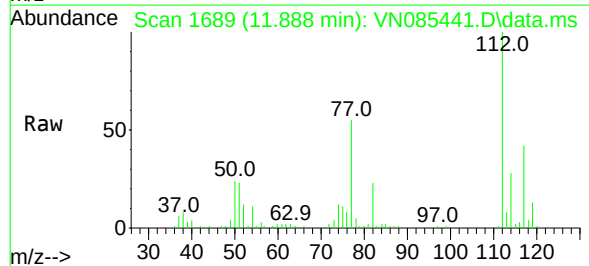
114 27.6 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 9.229 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

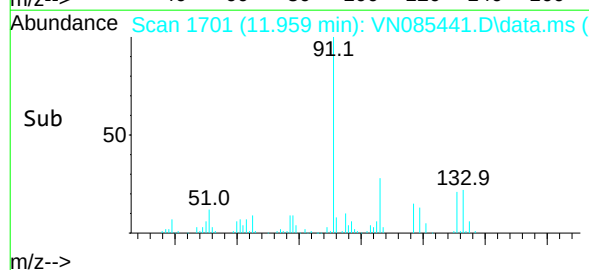
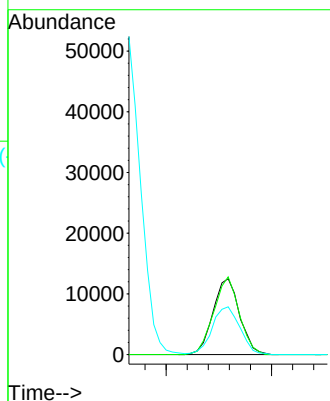
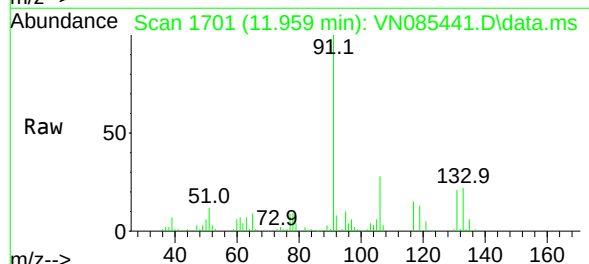
Tgt Ion:131 Resp: 21853

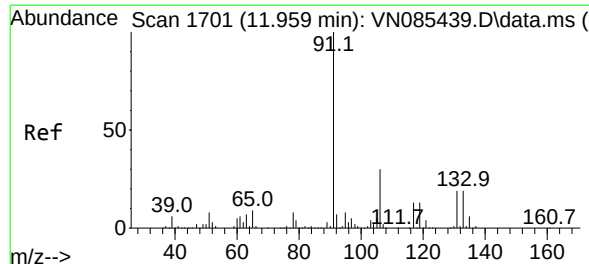
Ion Ratio Lower Upper

131 100

133 98.5 47.4 142.3

119 66.0 33.1 99.5





#67

Ethyl Benzene

Concen: 9.445 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 99248

Ion Ratio Lower Upper

91 100

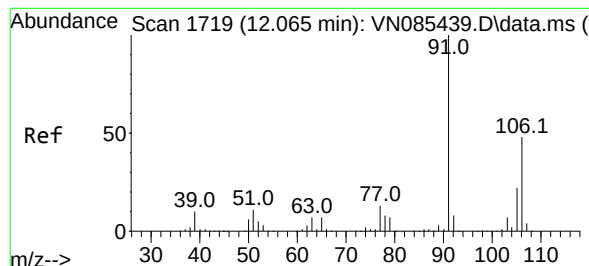
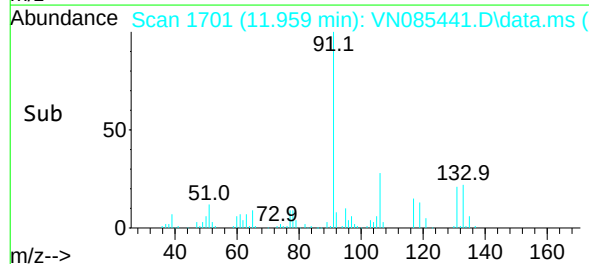
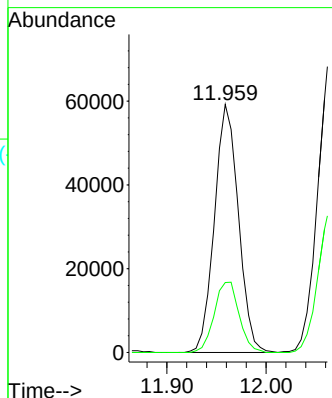
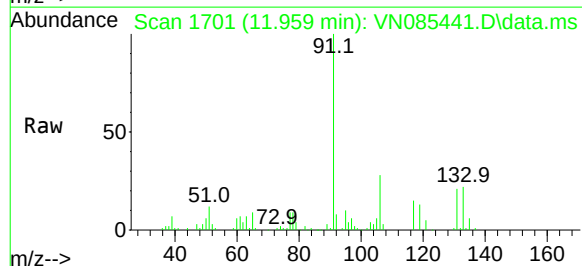
106 28.2 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 18.650 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085441.D

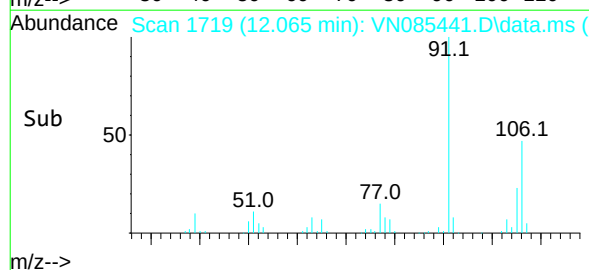
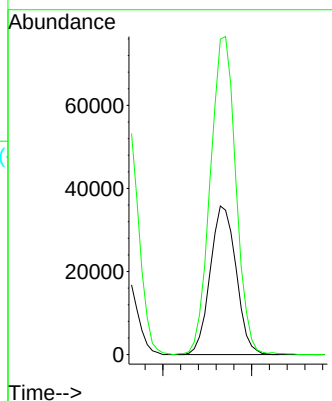
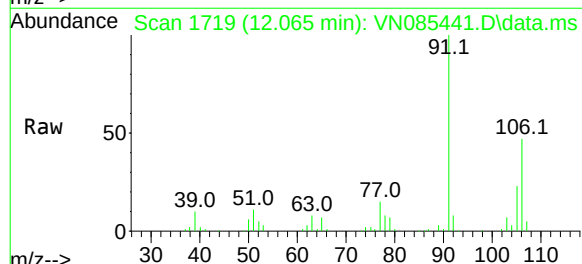
Acq: 14 Jan 2025 16:07

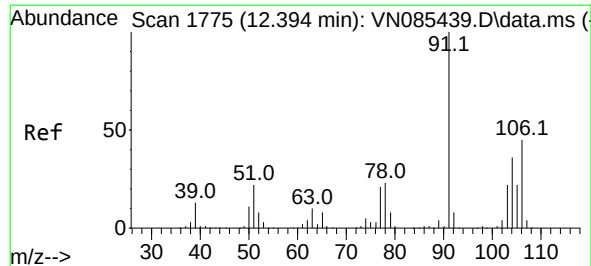
Tgt Ion:106 Resp: 72431

Ion Ratio Lower Upper

106 100

91 211.7 167.7 251.5





#69

o-Xylene

Concen: 9.264 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:106 Resp: 34382

Ion Ratio Lower Upper

106 100

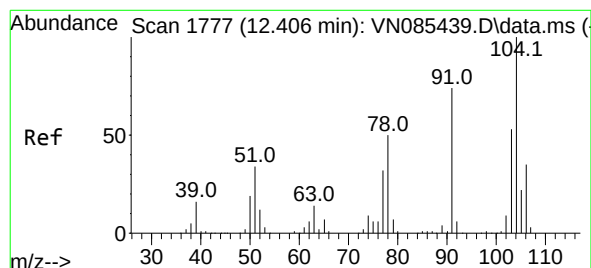
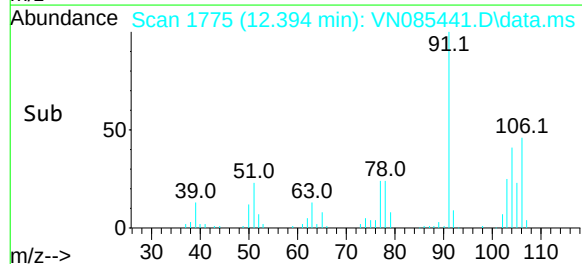
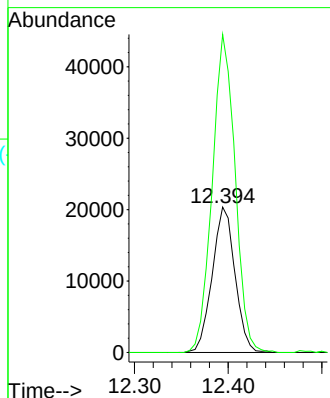
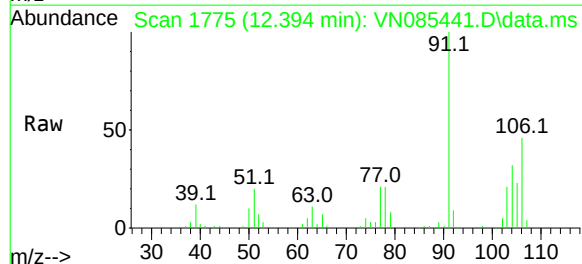
91 219.5 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 9.163 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

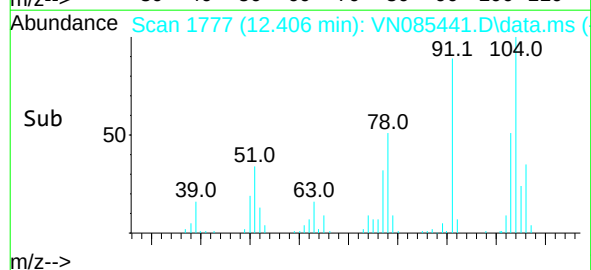
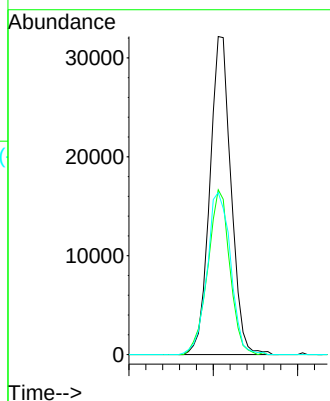
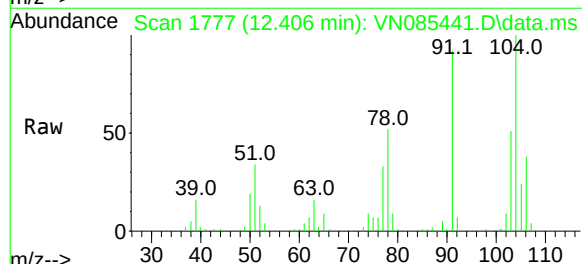
Tgt Ion:104 Resp: 56285

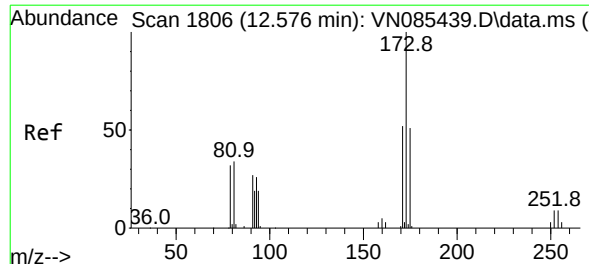
Ion Ratio Lower Upper

104 100

78 53.8 42.5 63.7

103 56.8 43.8 65.8





#71

Bromoform

Concen: 9.485 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

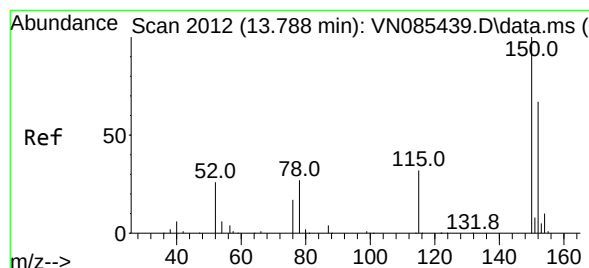
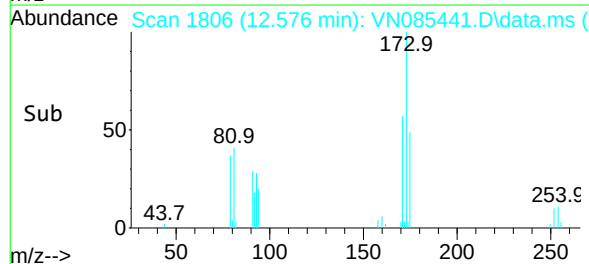
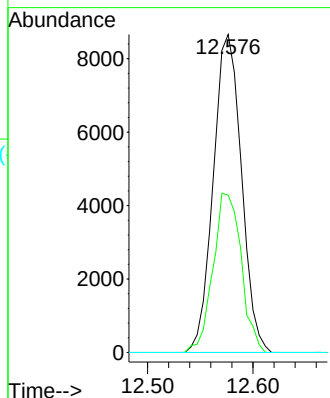
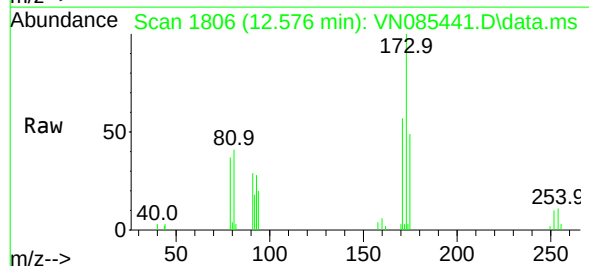
ClientSampleId :

VSTDICC010

Tgt	Ion:173	Resp:	16071
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

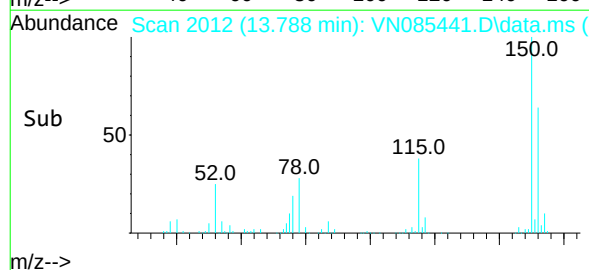
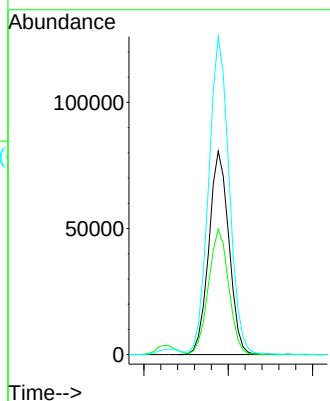
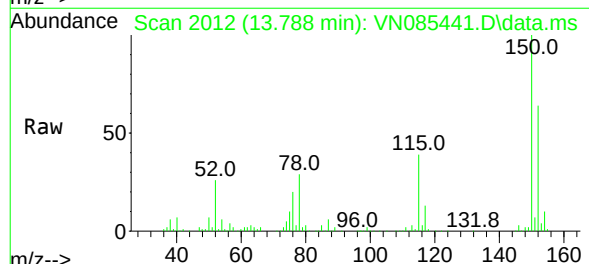
RT: 13.788 min Scan# 2012

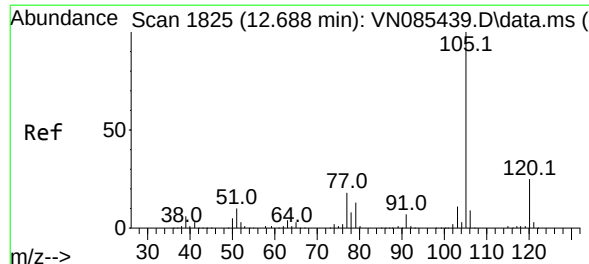
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt	Ion:152	Resp:	132934
Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.1	93.3
150	159.8	0.0	343.6





#73

Isopropylbenzene

Concen: 9.697 ug/l

RT: 12.694 min Scan# 18

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 105 Resp: 87003

Ion Ratio Lower Upper

105 100

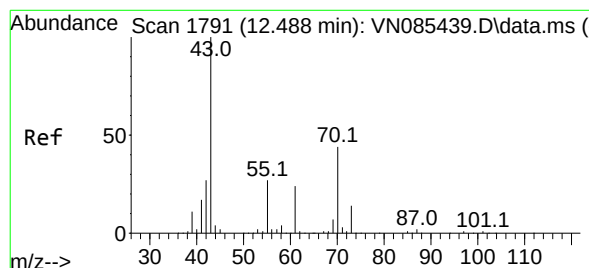
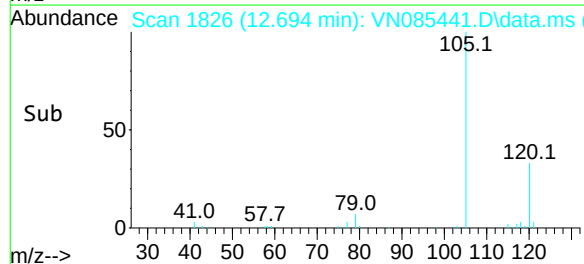
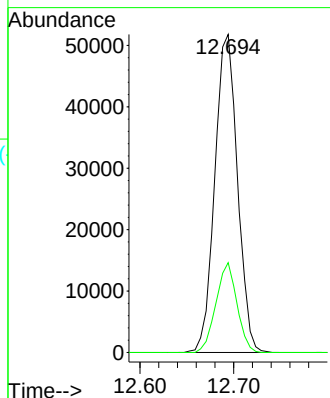
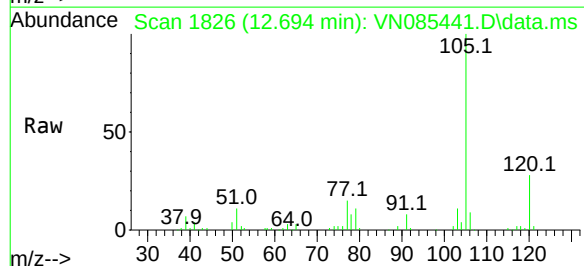
120 26.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 9.260 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 37343

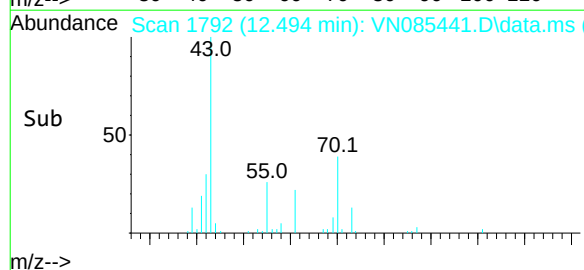
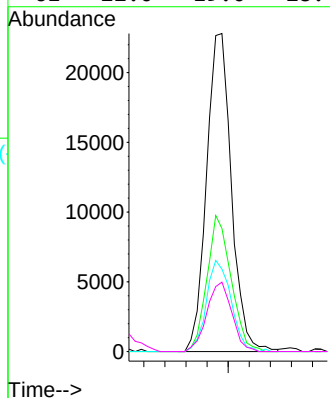
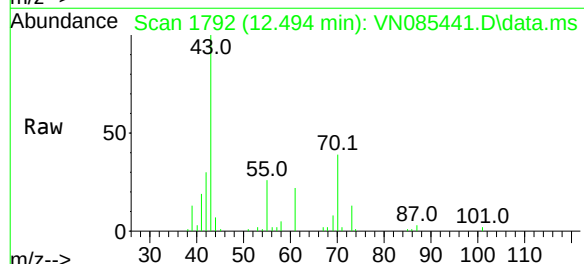
Ion Ratio Lower Upper

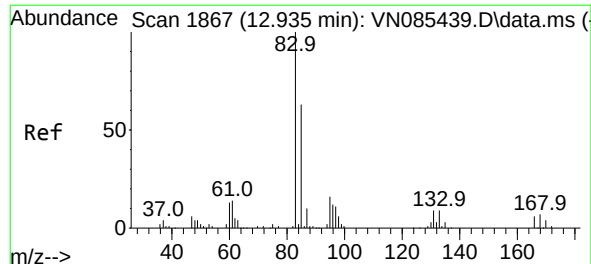
43 100

70 41.4 34.0 51.0

55 28.5 21.4 32.2

61 22.0 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 9.709 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

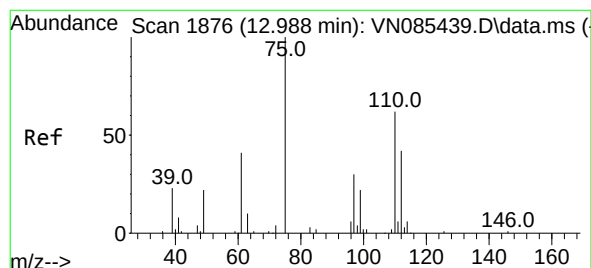
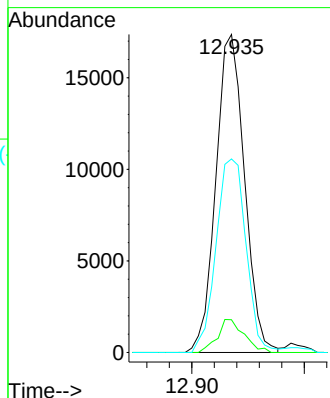
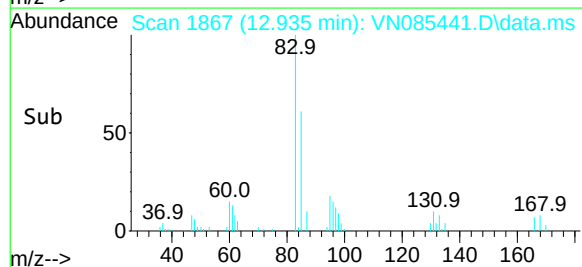
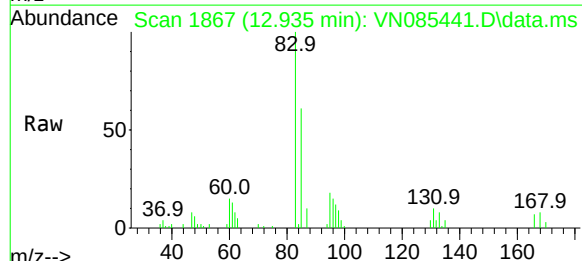
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	30770
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.6	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 9.432 ug/l m

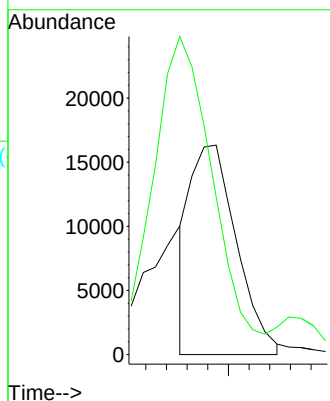
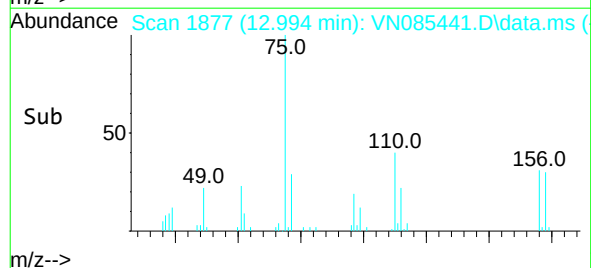
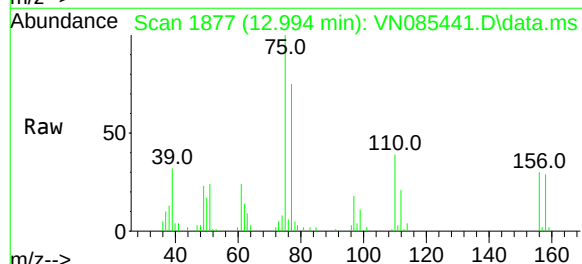
RT: 12.994 min Scan# 1877

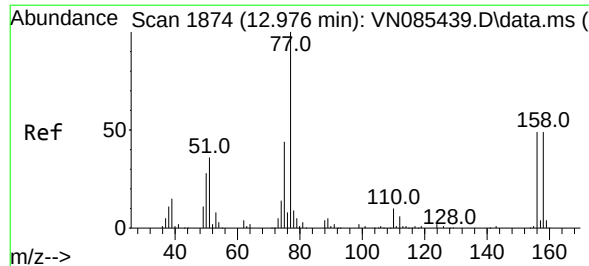
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	75	Resp:	25443
Ion	Ratio	Lower	Upper
75	100		
77	198.5	109.7	329.2





#77

Bromobenzene

Concen: 9.720 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

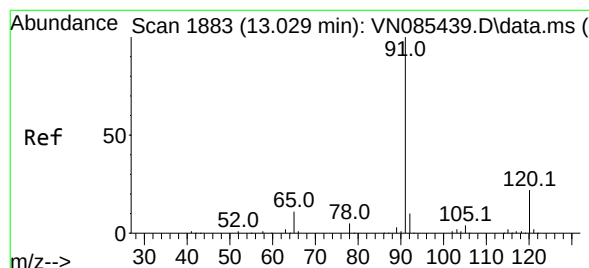
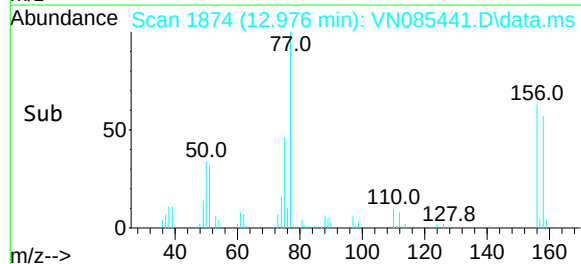
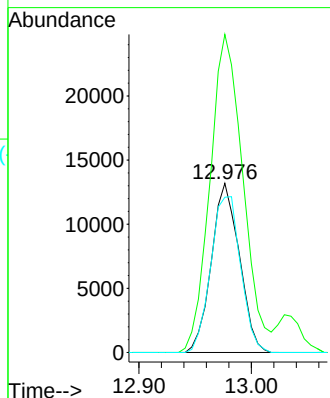
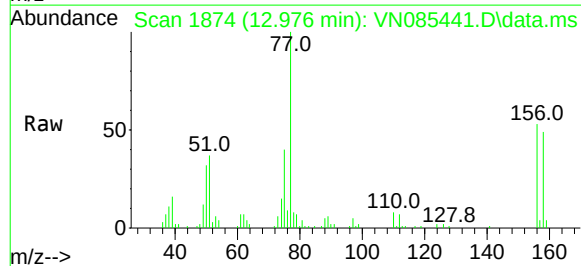
ClientSampleId :

VSTDICC010

Tgt Ion:	156	Resp:	22784
Ion	Ratio	Lower	Upper
156	100		
77	221.6	114.1	342.4
158	98.7	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 9.628 ug/l

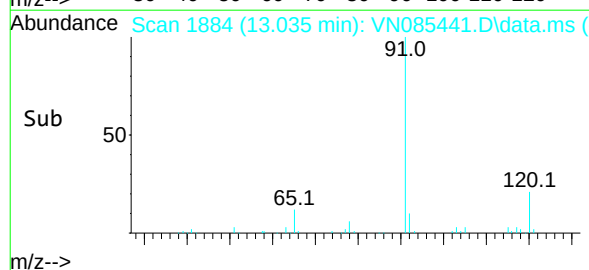
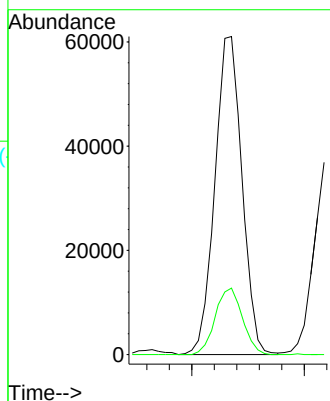
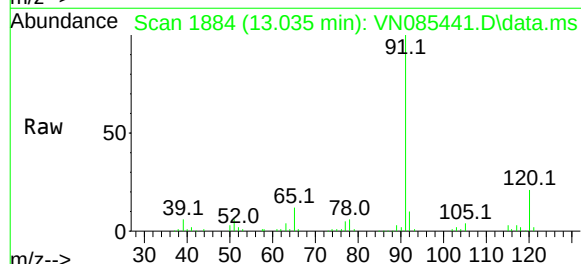
RT: 13.035 min Scan# 1884

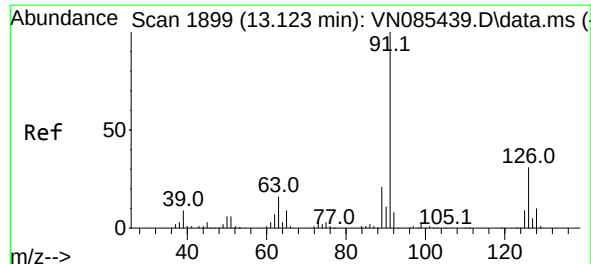
Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	91	Resp:	102262
Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.9	32.6





#79

2-Chlorotoluene

Concen: 9.943 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 68346

Ion Ratio Lower Upper

91 100

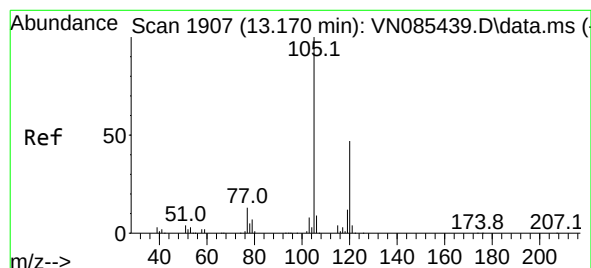
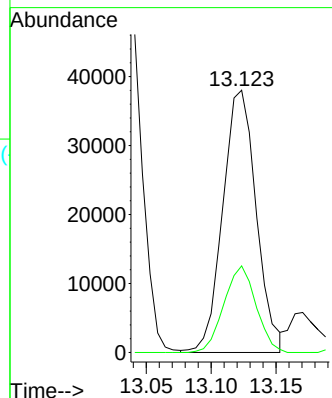
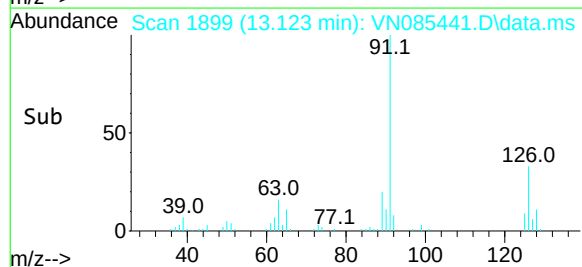
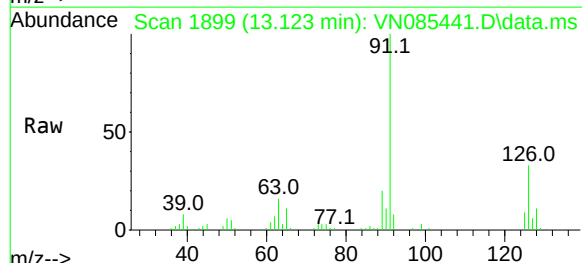
126 31.5 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 9.669 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085441.D

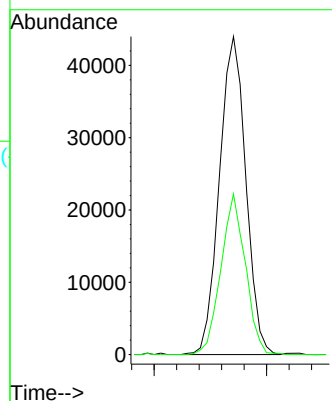
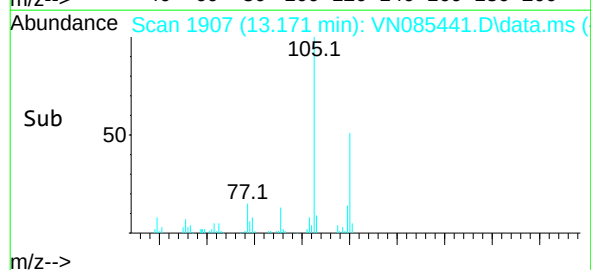
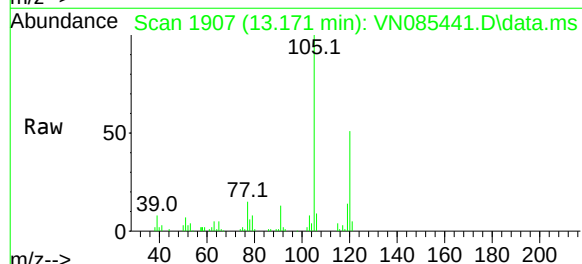
Acq: 14 Jan 2025 16:07

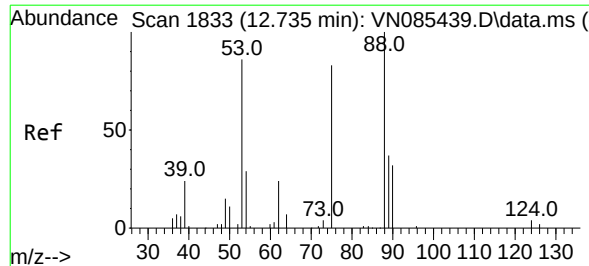
Tgt Ion:105 Resp: 71656

Ion Ratio Lower Upper

105 100

120 46.8 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 9.248 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

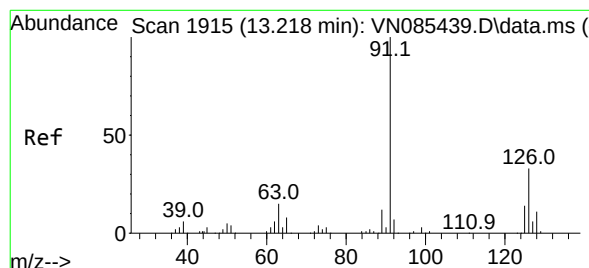
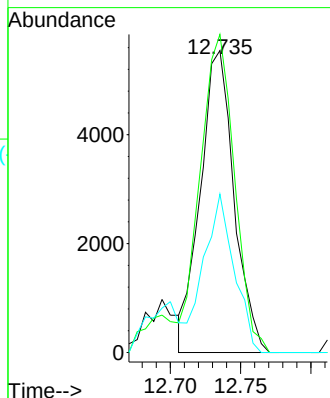
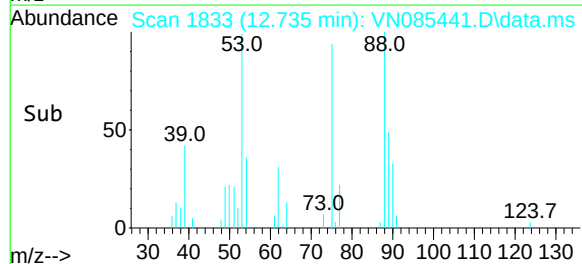
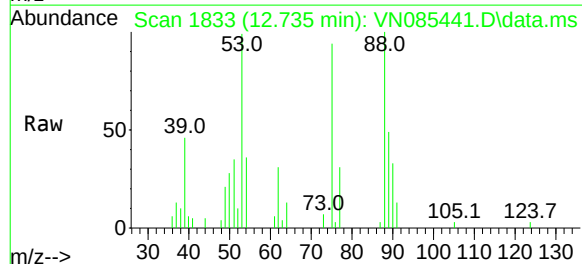
ClientSampleId :

VSTDIC010

Tgt Ion:	75	Resp:	9236
Ion	Ratio	Lower	Upper
75	100		
53	119.6	95.6	143.4
89	46.6	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 9.756 ug/l

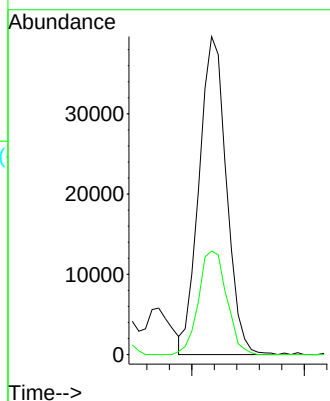
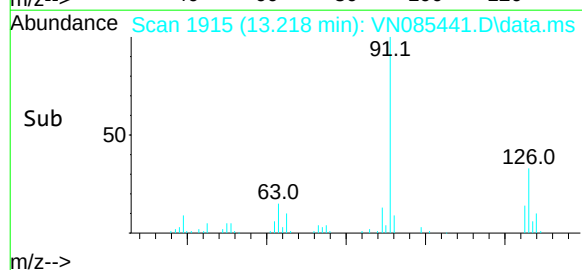
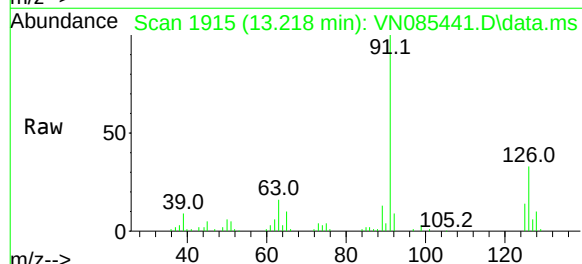
RT: 13.218 min Scan# 1915

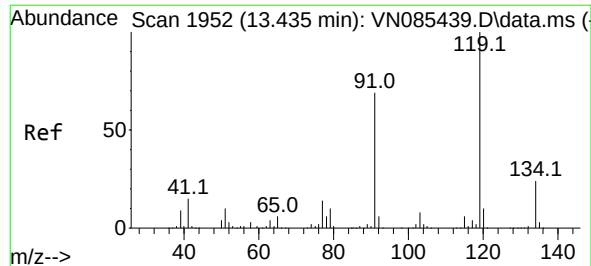
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	91	Resp:	66773
Ion	Ratio	Lower	Upper
91	100		
126	33.6	15.9	47.7





#83

tert-Butylbenzene

Concen: 9.553 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

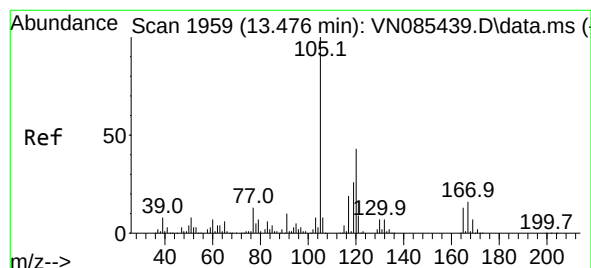
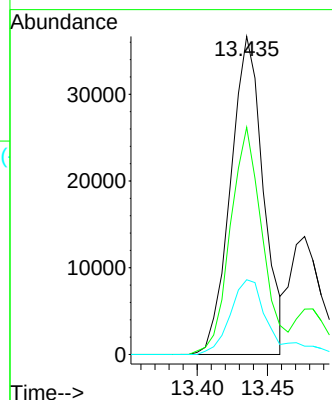
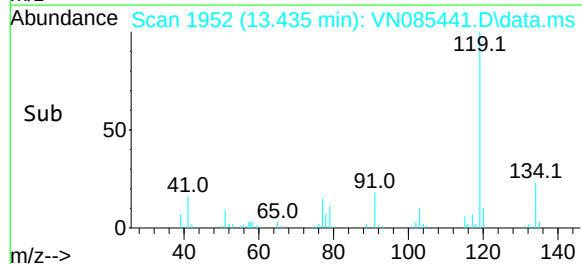
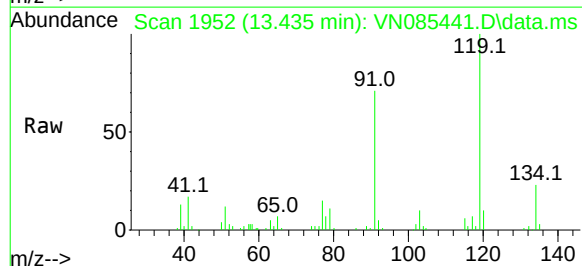
ClientSampleId :

VSTDIC010

Tgt Ion:	119	Resp:	59455
Ion Ratio	Lower	Upper	
119	100		
91	70.0	35.1	105.3
134	27.8	12.0	36.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 9.754 ug/l

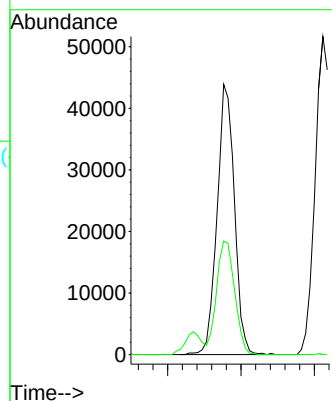
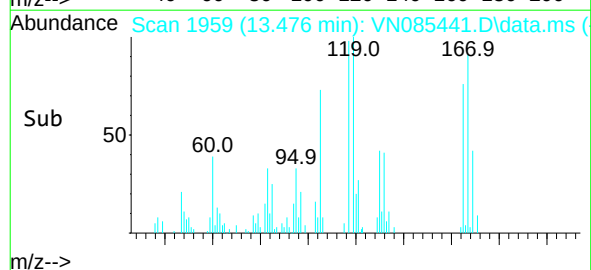
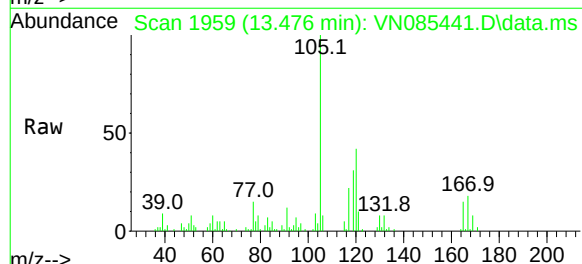
RT: 13.476 min Scan# 1959

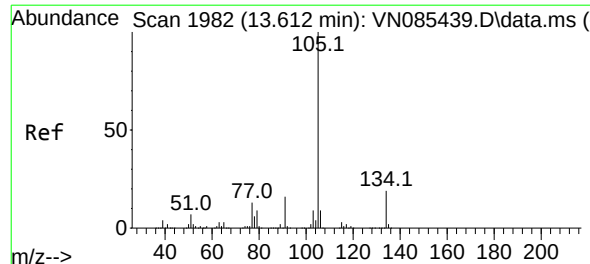
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	105	Resp:	72046
Ion Ratio	Lower	Upper	
105	100		
120	43.8	21.6	65.0





#85

sec-Butylbenzene

Concen: 9.699 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 83662

Ion Ratio Lower Upper

105 100

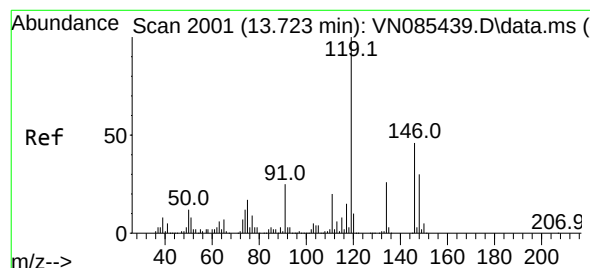
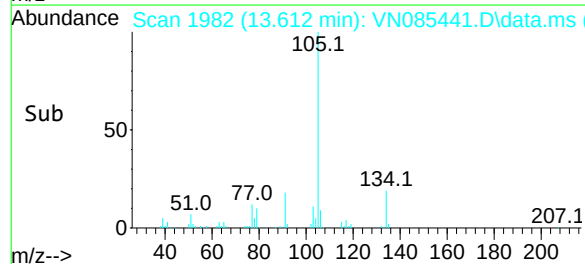
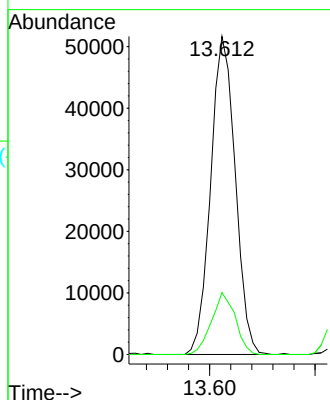
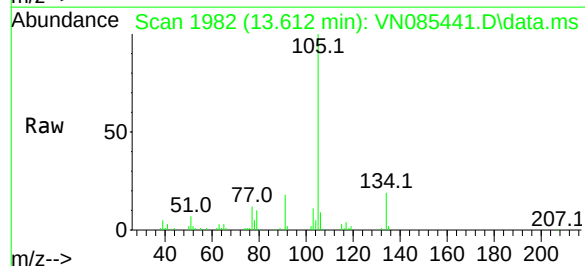
134 18.9 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 9.674 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

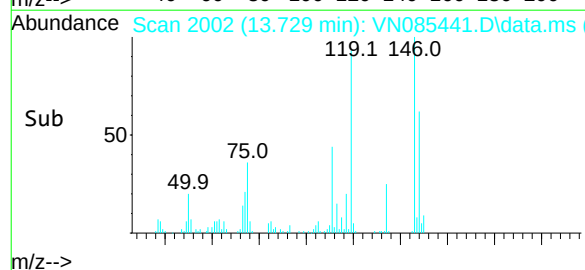
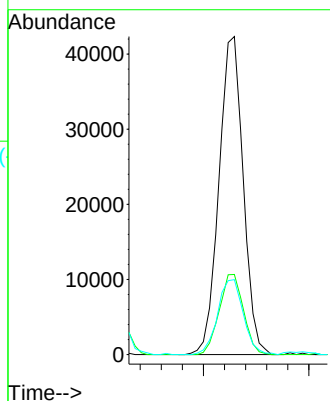
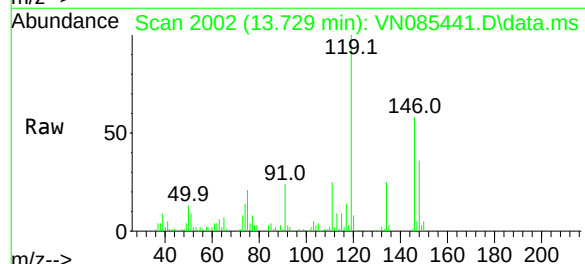
Tgt Ion:119 Resp: 67556

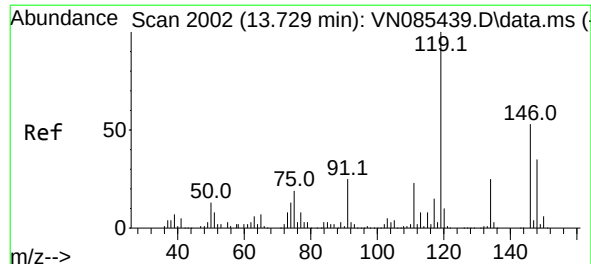
Ion Ratio Lower Upper

119 100

134 25.2 12.7 38.0

91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 9.693 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

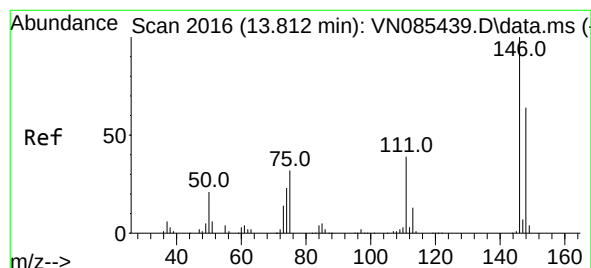
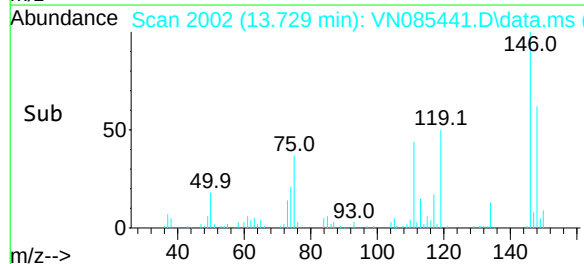
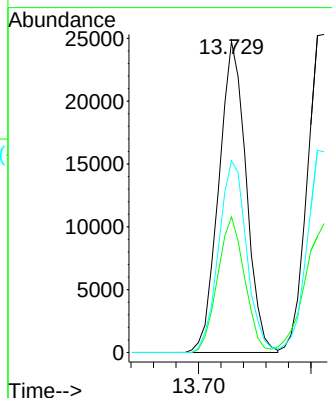
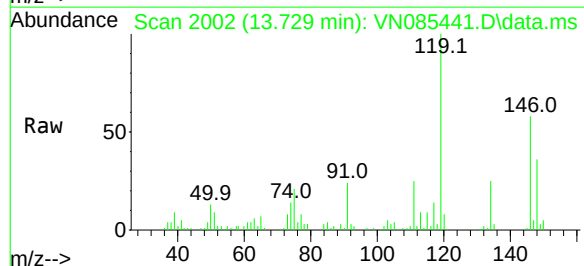
VSTDIC010

Tgt Ion:	146	Resp:	41843
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.4	64.3
148	63.0	32.3	96.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 9.549 ug/l

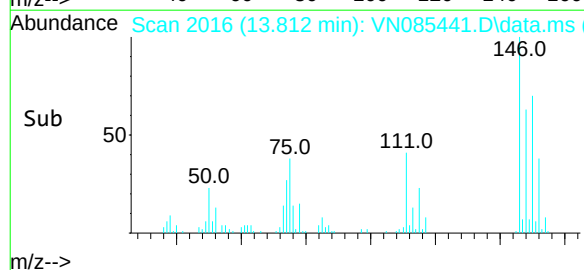
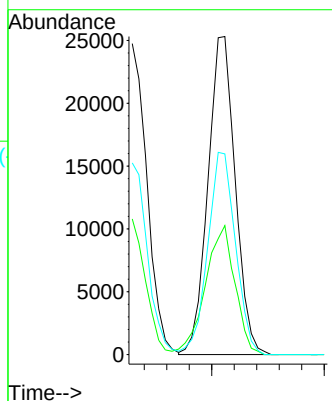
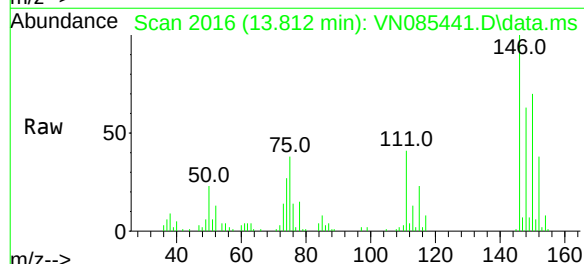
RT: 13.812 min Scan# 2016

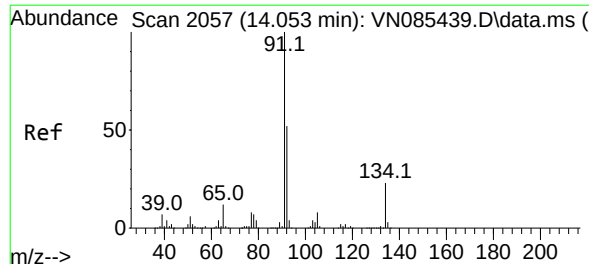
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	146	Resp:	42728
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.7
148	64.6	32.4	97.0





#89

n-Butylbenzene

Concen: 9.314 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

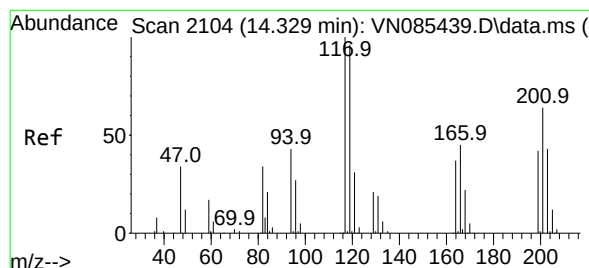
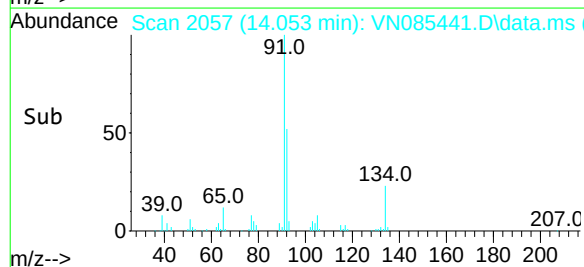
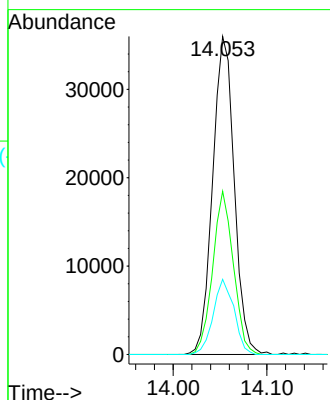
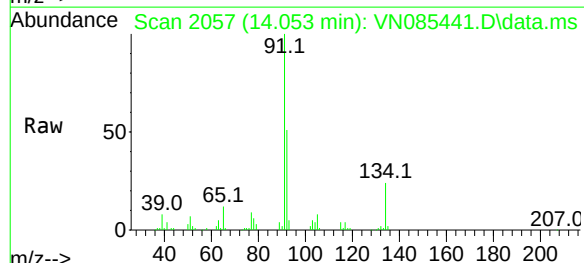
ClientSampleId :

VSTDICC010

Tgt Ion:	91	Resp:	57632
Ion	Ratio	Lower	Upper
91	100		
92	49.2	25.8	77.3
134	22.8	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 9.294 ug/l

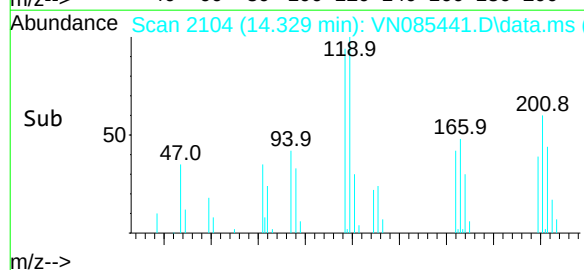
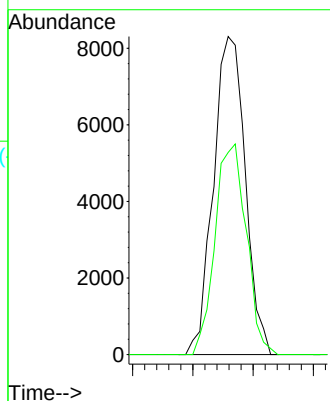
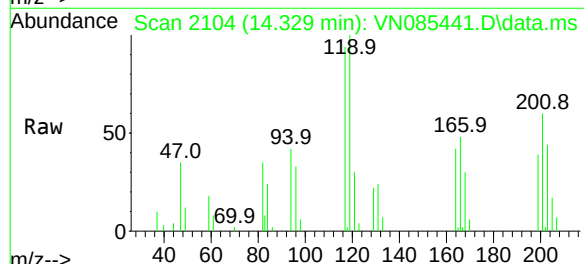
RT: 14.329 min Scan# 2104

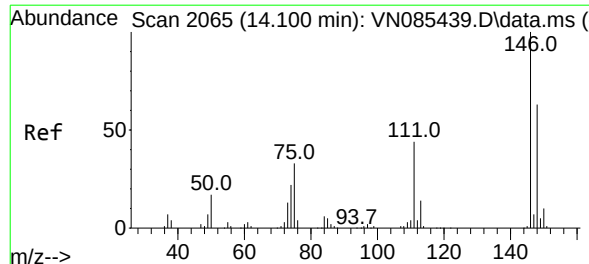
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	117	Resp:	15261
Ion	Ratio	Lower	Upper
117	100		
201	65.0	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 9.458 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:146 Resp: 40726

Ion Ratio Lower Upper

146 100

111 42.9 21.7 65.1

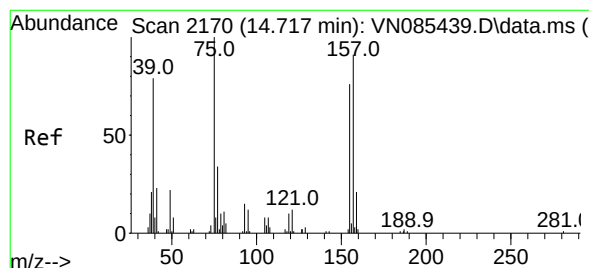
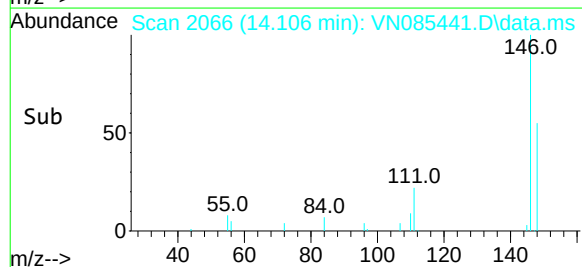
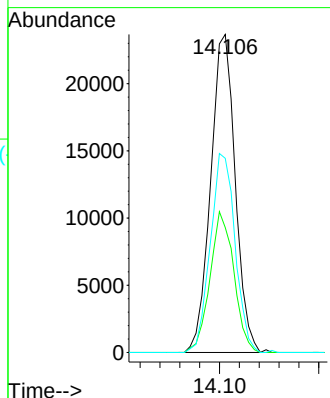
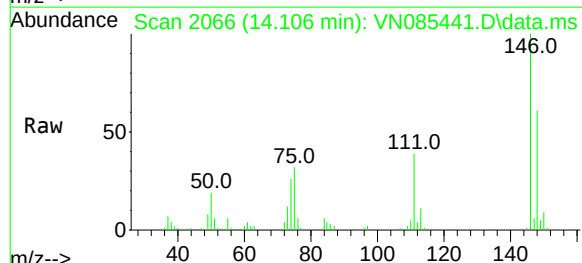
148 62.9 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.744 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

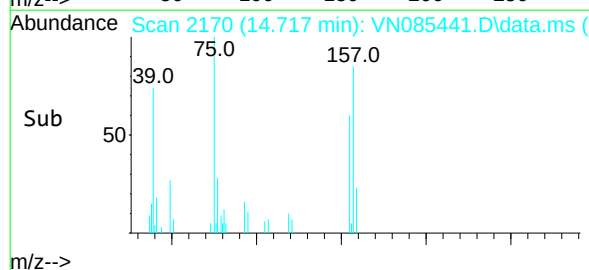
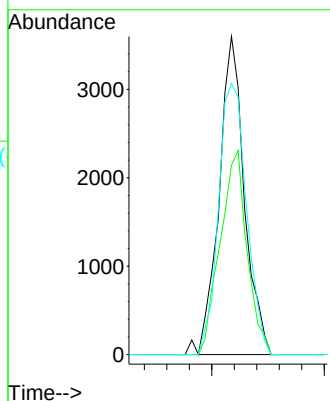
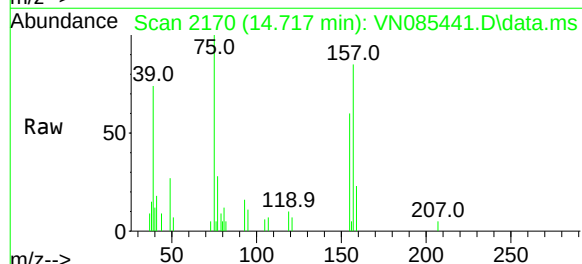
Tgt Ion: 75 Resp: 5639

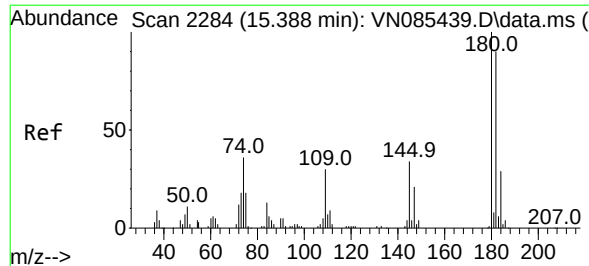
Ion Ratio Lower Upper

75 100

155 67.9 36.4 109.2

157 94.1 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 9.354 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

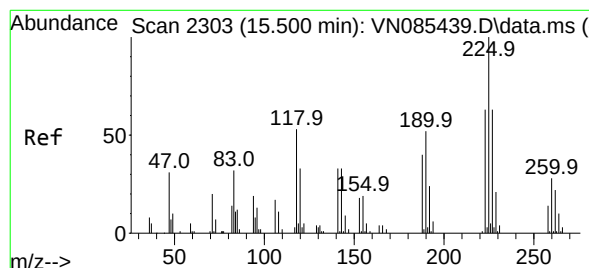
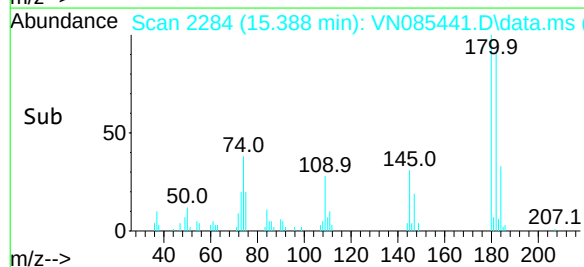
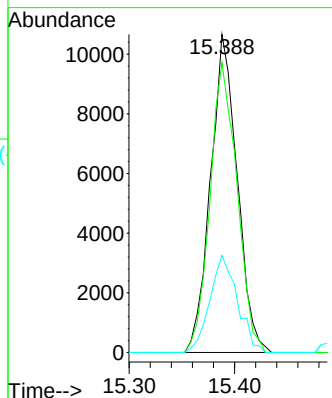
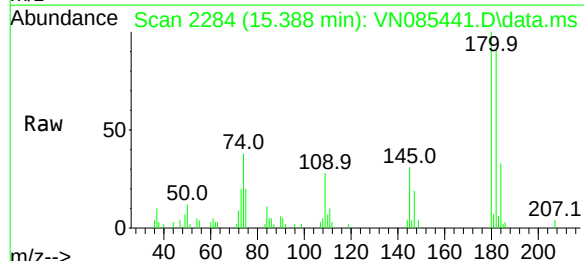
ClientSampleId :

VSTDICC010

Tgt Ion:	180	Resp:	18720
Ion Ratio	Lower	Upper	
180	100		
182	92.4	46.8	140.3
145	31.7	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 9.874 ug/l

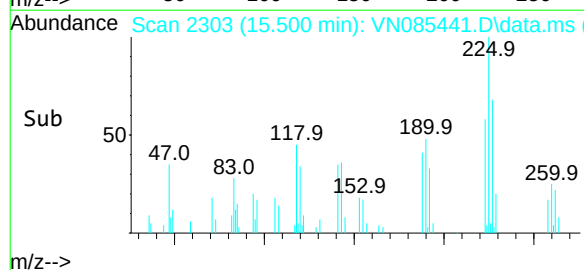
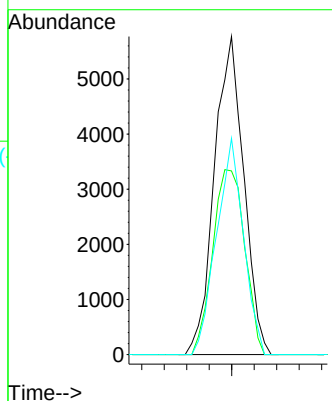
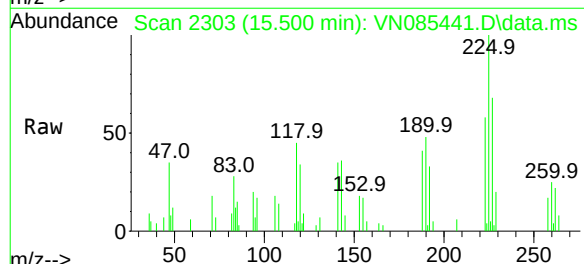
RT: 15.500 min Scan# 2303

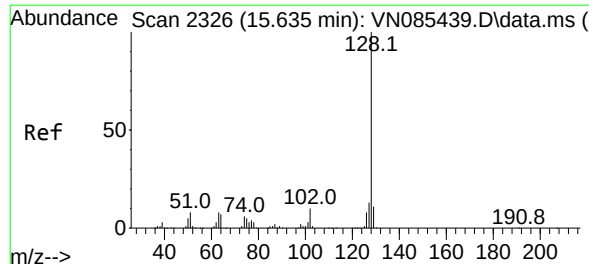
Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	225	Resp:	10491
Ion Ratio	Lower	Upper	
225	100		
223	63.3	30.7	92.1
227	62.1	30.9	92.5





#95

Naphthalene

Concen: 8.717 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

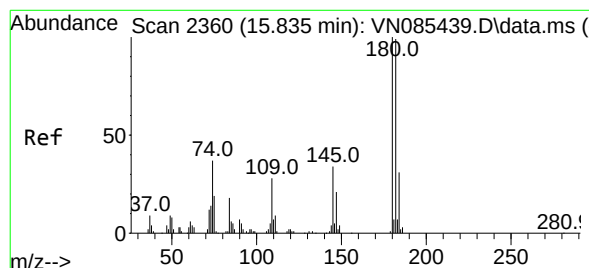
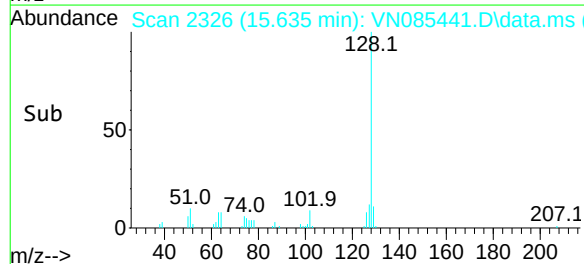
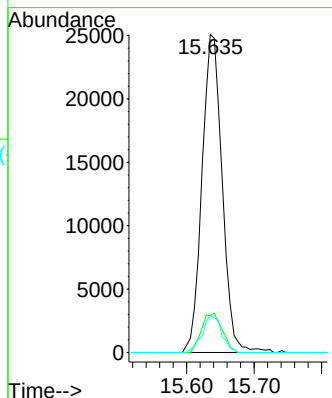
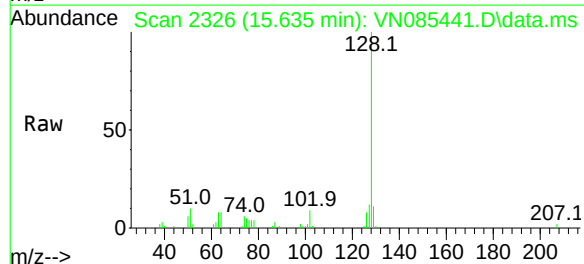
ClientSampleId :

VSTDICC010

Tgt Ion:	128	Resp:	52054
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.6	16.0
129	11.2	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 9.605 ug/l

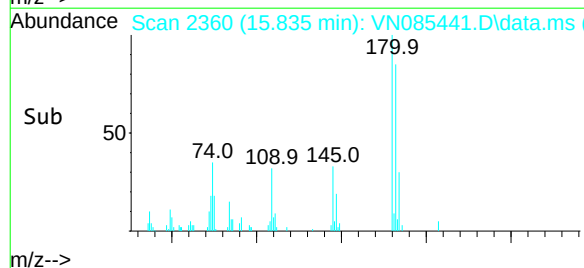
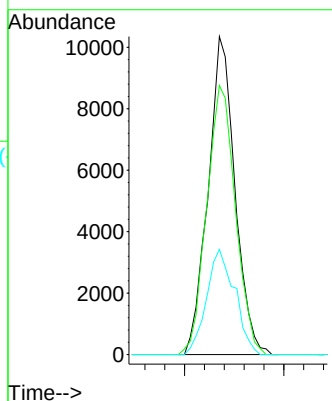
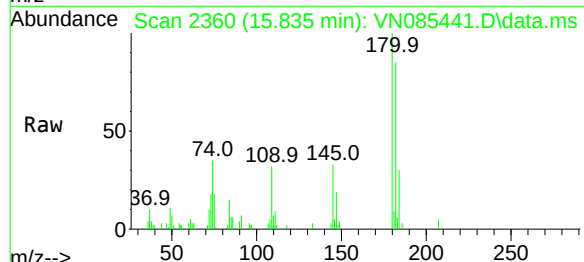
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Tgt Ion:	180	Resp:	19450
Ion Ratio	Lower	Upper	
180	100		
182	90.3	47.4	142.2
145	34.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085442.D
 Acq On : 14 Jan 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Jan 15 01:45:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	186556	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126086	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	17046	5.660	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	11.320%#
35) Dibromofluoromethane	8.165	113	12102	5.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.760%#
50) Toluene-d8	10.565	98	41328	5.168	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.340%#
62) 4-Bromofluorobenzene	12.847	95	13520	4.943	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	9.880%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	13199	5.225	ug/l	97
3) Chloromethane	2.359	50	14526	5.311	ug/l	96
4) Vinyl Chloride	2.512	62	14564	5.298	ug/l	98
5) Bromomethane	2.953	94	9788	5.895	ug/l	98
6) Chloroethane	3.124	64	9430	5.411	ug/l	99
7) Trichlorofluoromethane	3.501	101	20098	5.039	ug/l	92
8) Diethyl Ether	3.959	74	6652	4.828	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	11917	5.305	ug/l	97
10) Methyl Iodide	4.583	142	12331	4.793	ug/l	99
11) Tert butyl alcohol	5.518	59	9075	26.318	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	10429	5.209	ug/l	96
13) Acrolein	4.171	56	9430	20.033	ug/l	97
14) Allyl chloride	5.030	41	16741	5.153	ug/l	97
15) Acrylonitrile	5.718	53	27869	25.445	ug/l	97
16) Acetone	4.430	43	25122	25.819	ug/l	97
17) Carbon Disulfide	4.706	76	32068	5.202	ug/l	96
18) Methyl Acetate	5.024	43	15106	5.106	ug/l	97
19) Methyl tert-butyl Ether	5.800	73	31439	4.836	ug/l	94
20) Methylene Chloride	5.271	84	12981	5.389	ug/l #	83
21) trans-1,2-Dichloroethene	5.783	96	10614	4.960	ug/l #	78
22) Diisopropyl ether	6.665	45	35785	4.962	ug/l #	96
23) Vinyl Acetate	6.600	43	118439m	23.389	ug/l	
24) 1,1-Dichloroethane	6.565	63	22865	5.200	ug/l	99
25) 2-Butanone	7.483	43	36127	25.231	ug/l	99
26) 2,2-Dichloropropane	7.488	77	18398	5.175	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	12477	4.951	ug/l	99
28) Bromochloromethane	7.806	49	11096	5.424	ug/l	99
29) Tetrahydrofuran	7.841	42	21983	24.215	ug/l	99
30) Chloroform	7.959	83	23384	5.146	ug/l	98
31) Cyclohexane	8.247	56	22343	5.846	ug/l #	92
32) 1,1,1-Trichloroethane	8.159	97	21416	5.372	ug/l	91
36) 1,1-Dichloropropene	8.371	75	15886	5.029	ug/l	96
37) Ethyl Acetate	7.553	43	16879m	5.294	ug/l	
38) Carbon Tetrachloride	8.359	117	18317	5.065	ug/l	96
39) Methylcyclohexane	9.600	83	14175	4.776	ug/l	98
40) Benzene	8.600	78	47833	5.040	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085442.D
 Acq On : 14 Jan 2025 16:31
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 01:28:51 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	7380	4.449	ug/l	96
42) 1,2-Dichloroethane	8.671	62	18628	5.211	ug/l	98
43) Isopropyl Acetate	8.688	43	24792	4.853	ug/l	98
44) Trichloroethene	9.347	130	11133	5.039	ug/l	86
45) 1,2-Dichloropropane	9.618	63	12591	5.194	ug/l	92
46) Dibromomethane	9.700	93	8230	4.705	ug/l	91
47) Bromodichloromethane	9.888	83	18456	5.179	ug/l #	96
48) Methyl methacrylate	9.677	41	10574	4.599	ug/l	95
49) 1,4-Dioxane	9.694	88	3619	93.477	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	71889	24.250	ug/l	98
52) Toluene	10.629	92	27098	4.928	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	17099	5.077	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	17440	4.848	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	11311	5.197	ug/l	96
56) Ethyl methacrylate	10.871	69	14094	5.627	ug/l	94
57) 1,3-Dichloropropane	11.159	76	18945	5.006	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	33210	24.047	ug/l	97
59) 2-Hexanone	11.194	43	49021	23.501	ug/l	94
60) Dibromochloromethane	11.353	129	13635	5.190	ug/l	96
61) 1,2-Dibromoethane	11.471	107	10419	4.810	ug/l	98
64) Tetrachloroethene	11.100	164	9756	5.071	ug/l	91
65) Chlorobenzene	11.888	112	31312	5.065	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	11620	5.121	ug/l	98
67) Ethyl Benzene	11.965	91	48216	4.789	ug/l	98
68) m/p-Xylenes	12.065	106	34771	9.344	ug/l	99
69) o-Xylene	12.394	106	16419	4.617	ug/l	98
70) Styrene	12.412	104	26218	4.454	ug/l	99
71) Bromoform	12.576	173	8017	4.938	ug/l #	99
73) Isopropylbenzene	12.694	105	39811	4.678	ug/l	99
74) N-amyl acetate	12.488	43	17577	4.595	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	15483	5.151	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	12173m	4.758	ug/l	
77) Bromobenzene	12.982	156	11091	4.989	ug/l	99
78) n-propylbenzene	13.035	91	45450	4.512	ug/l	99
79) 2-Chlorotoluene	13.123	91	31932	4.898	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	31891	4.537	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	4229	4.465	ug/l	90
82) 4-Chlorotoluene	13.218	91	31976	4.926	ug/l	100
83) tert-Butylbenzene	13.435	119	27597	4.675	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	32054	4.575	ug/l	98
85) sec-Butylbenzene	13.612	105	38148	4.663	ug/l	98
86) p-Isopropyltoluene	13.723	119	29856	4.584	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	20876	5.099	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21982	5.179	ug/l	97
89) n-Butylbenzene	14.053	91	27437	4.675	ug/l	96
90) Hexachloroethane	14.329	117	7767	4.987	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	20177	4.940	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.729	75	2872	5.232	ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	9037	4.761	ug/l	94
94) Hexachlorobutadiene	15.500	225	5563	5.520	ug/l	98
95) Naphthalene	15.641	128	25047	4.422	ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	8737	4.549	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

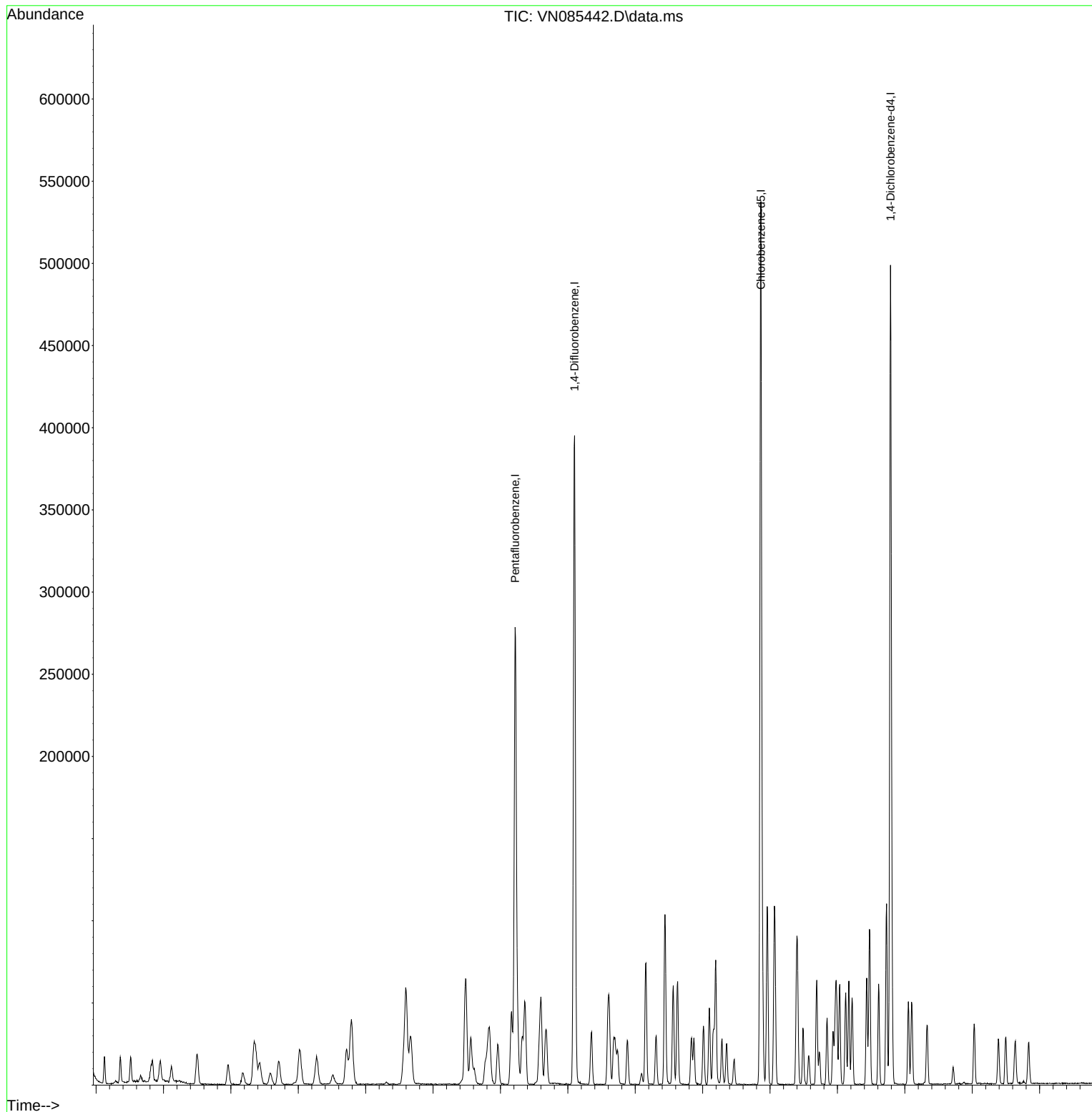
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Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

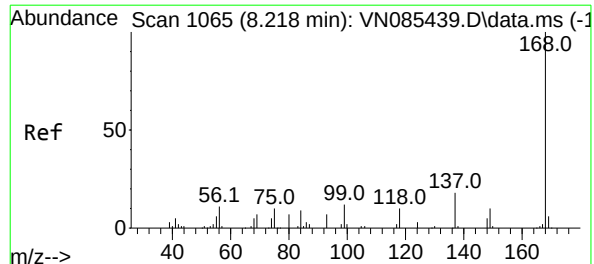
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:45:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





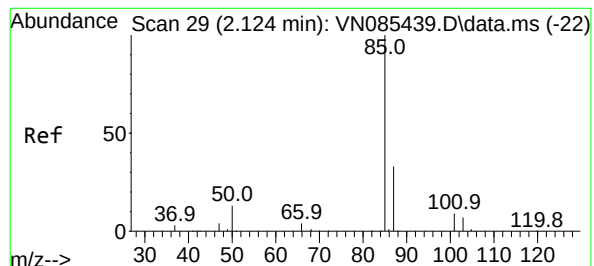
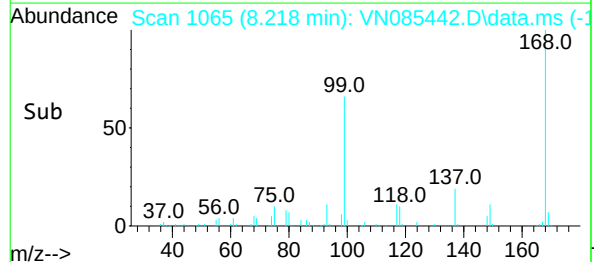
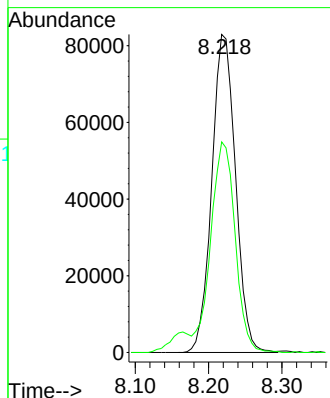
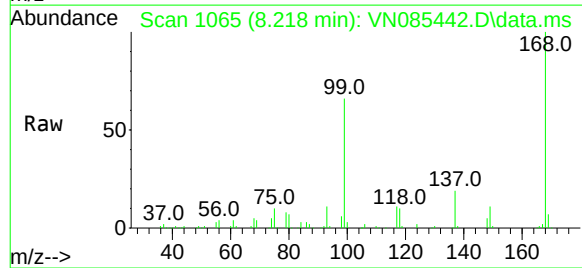
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 168 Resp: 186556
Ion Ratio Lower Upper
168 100
99 65.9 53.6 80.4

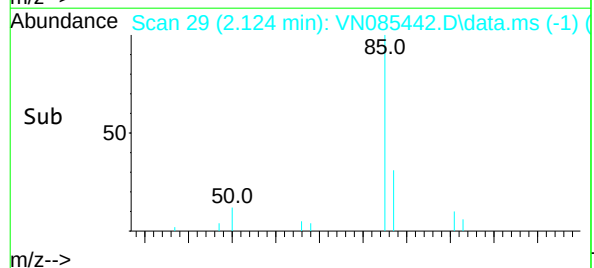
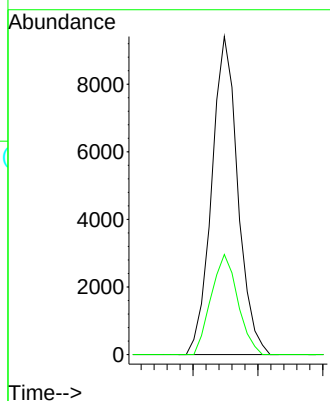
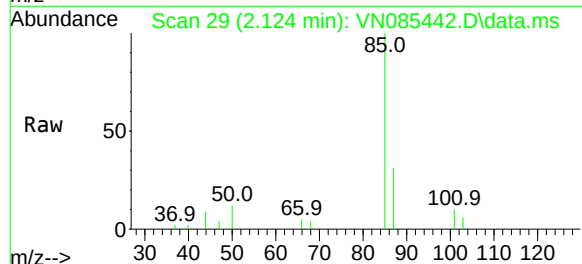
Manual Integrations
APPROVED

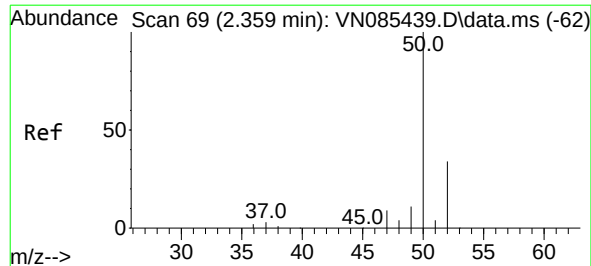
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 5.225 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 85 Resp: 13199
Ion Ratio Lower Upper
85 100
87 31.5 16.7 50.1





#3

Chloromethane

Concen: 5.311 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 50 Resp: 14526

Ion Ratio Lower Upper

50 100

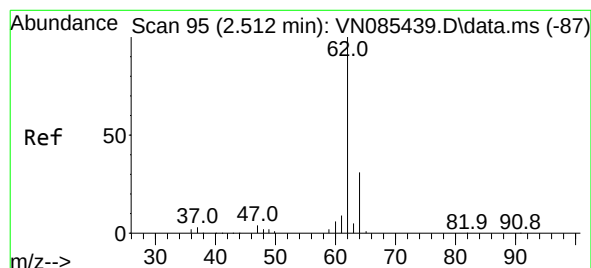
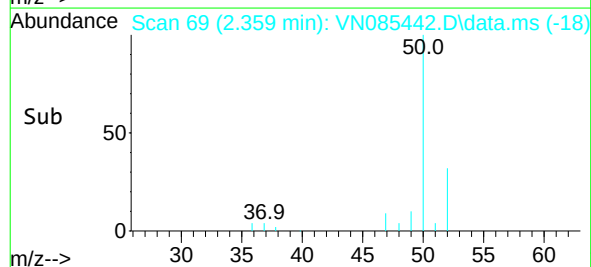
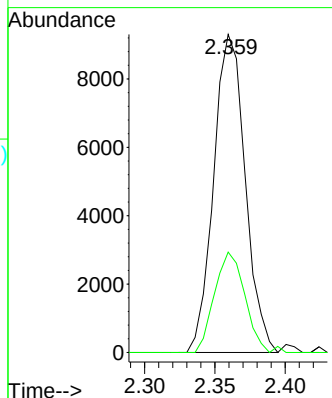
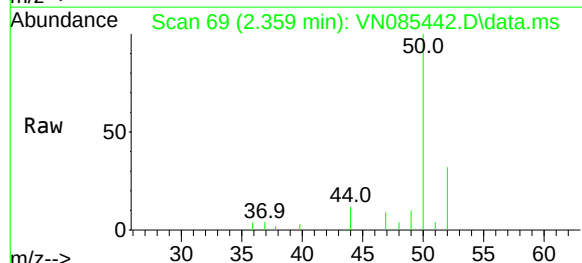
52 31.6 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#4

Vinyl Chloride

Concen: 5.298 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085442.D

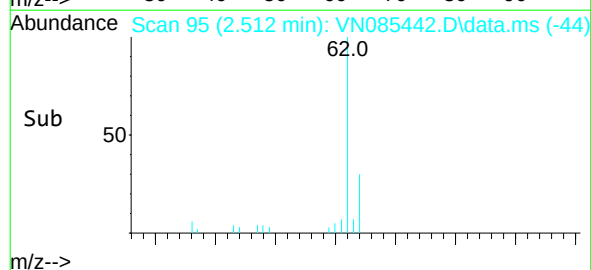
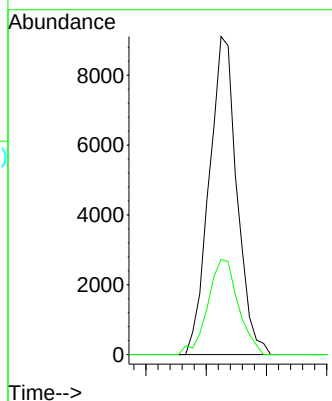
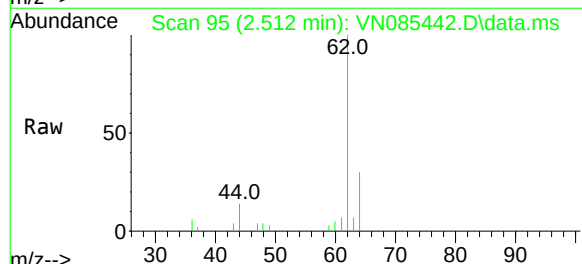
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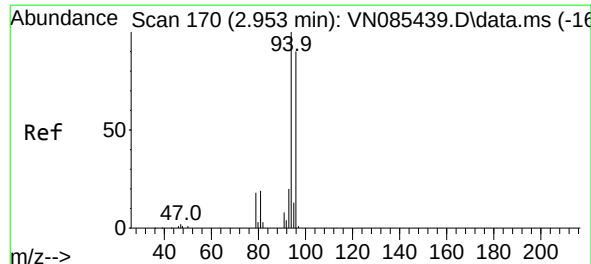
Tgt Ion: 62 Resp: 14564

Ion Ratio Lower Upper

62 100

64 29.9 24.8 37.2





#5

Bromomethane

Concen: 5.895 ug/l

RT: 2.953 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 9788

Ion Ratio Lower Upper

94 100

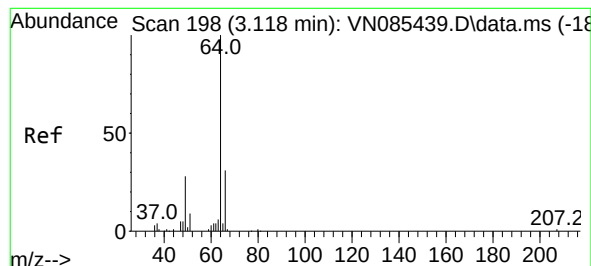
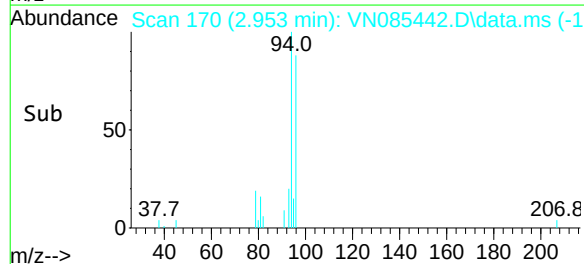
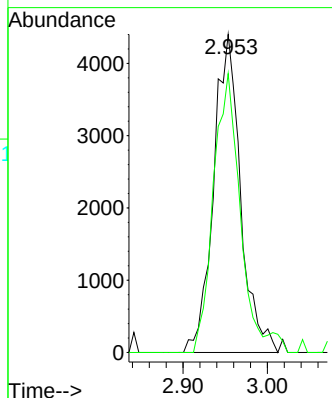
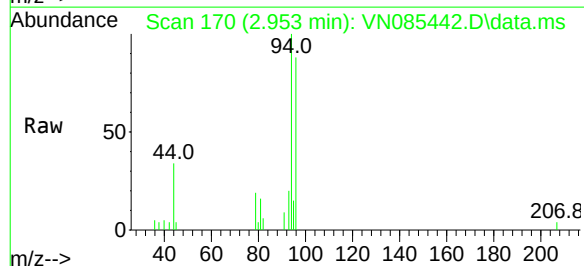
96 87.7 71.8 107.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 5.411 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.006 min

Lab File: VN085442.D

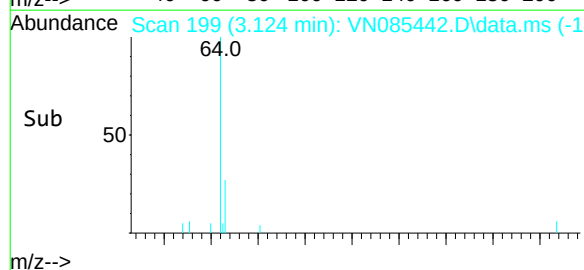
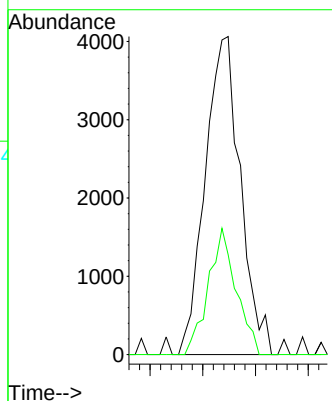
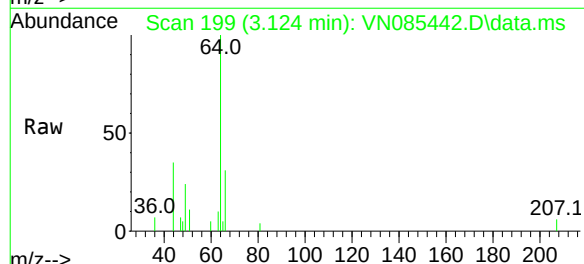
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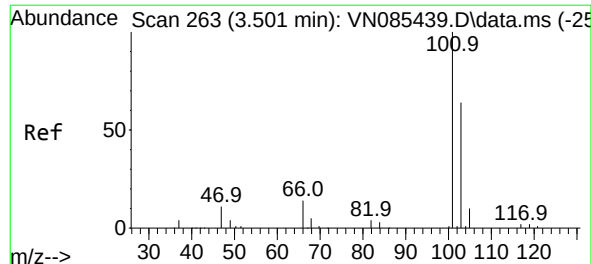
Tgt Ion: 64 Resp: 9430

Ion Ratio Lower Upper

64 100

66 31.4 24.6 36.8





#7

Trichlorofluoromethane

Concen: 5.039 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:101 Resp: 20098

Ion Ratio Lower Upper

101 100

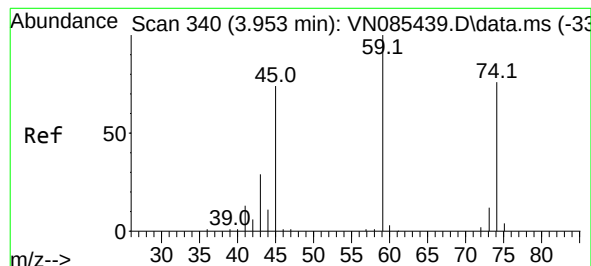
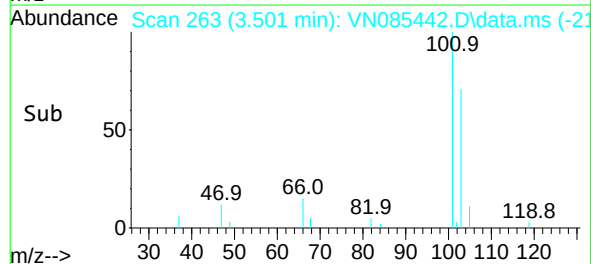
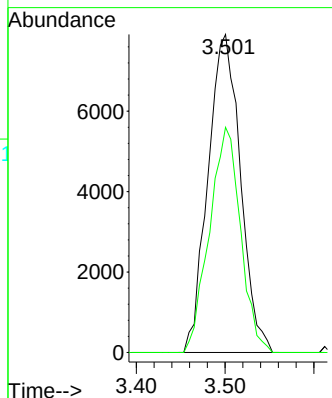
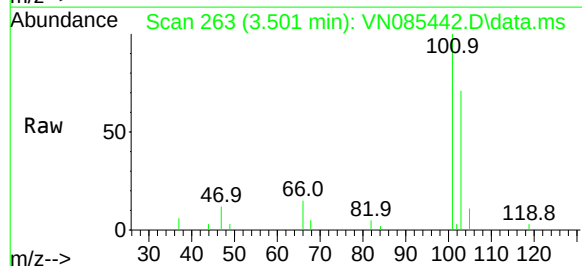
103 70.8 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 4.828 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085442.D

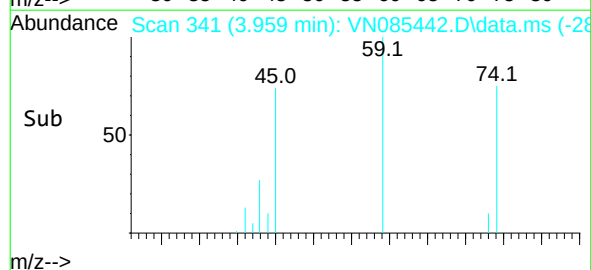
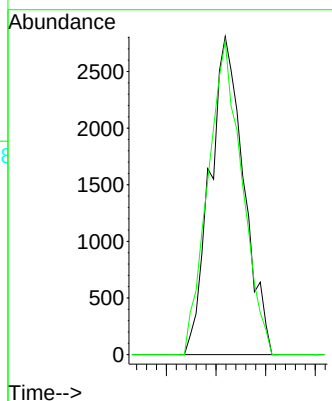
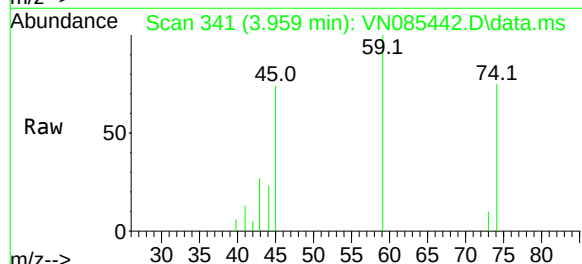
Acq: 14 Jan 2025 16:31

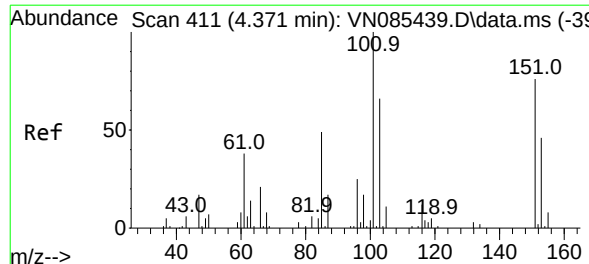
Tgt Ion: 74 Resp: 6652

Ion Ratio Lower Upper

74 100

45 99.5 49.7 149.1





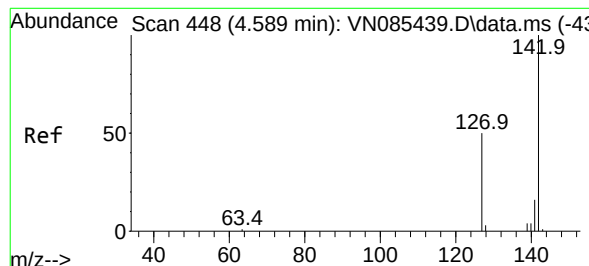
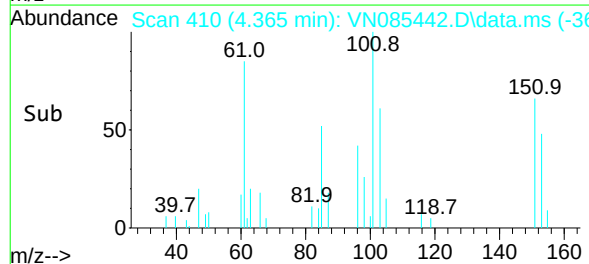
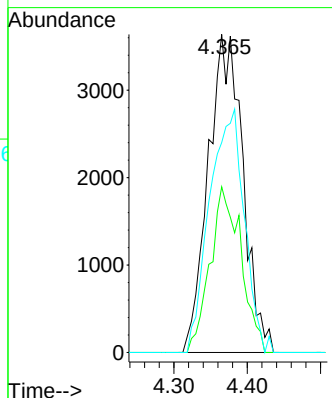
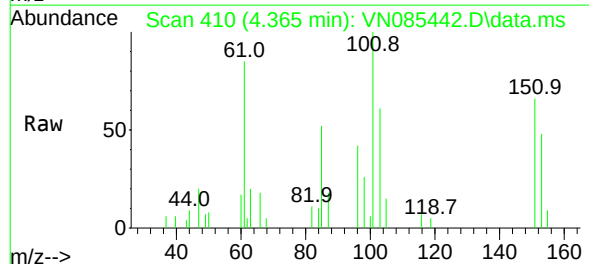
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.305 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion	101	Resp	11917
Ion Ratio	Lower	Upper	
101	100		
85	46.5	37.8	56.8
151	76.7	58.8	88.2

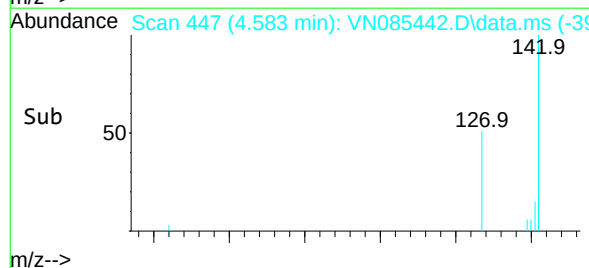
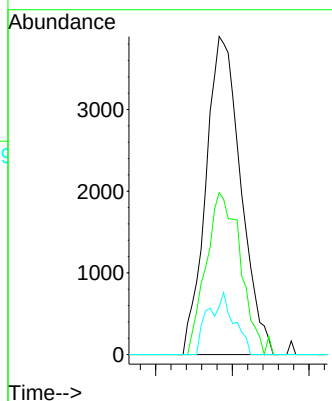
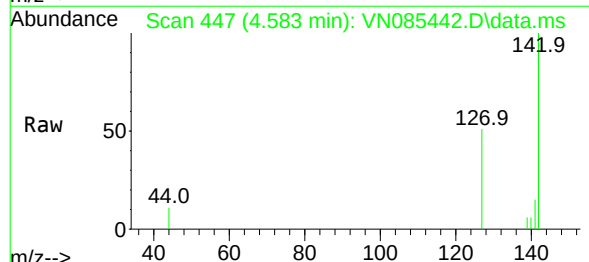
Manual Integrations
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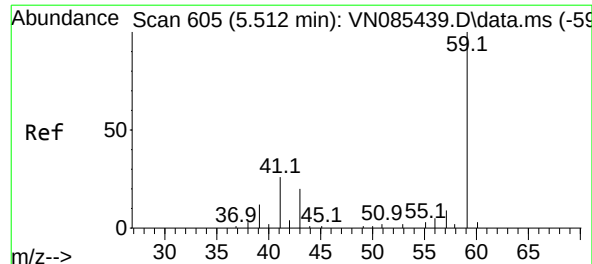
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 4.793 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion	142	Resp	12331
Ion Ratio	Lower	Upper	
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2





#11

Tert butyl alcohol

Concen: 26.318 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 9075

Ion Ratio Lower Upper

59 100

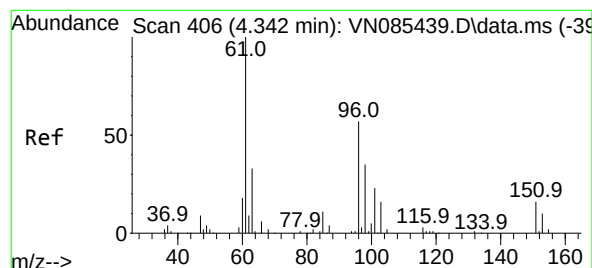
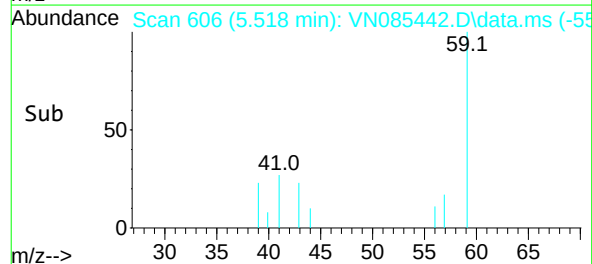
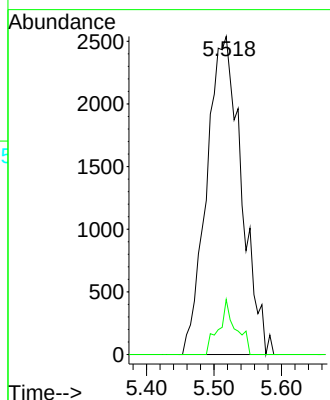
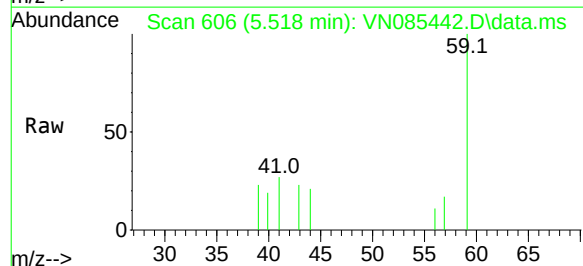
57 8.5 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 5.209 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

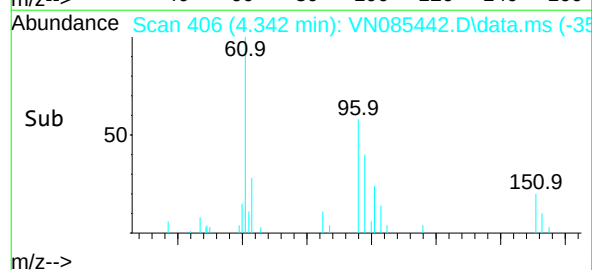
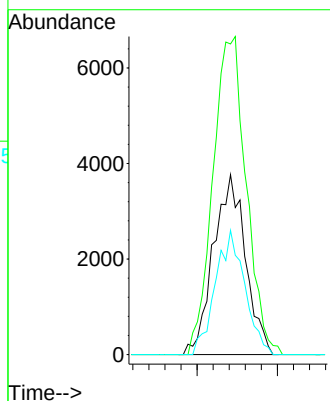
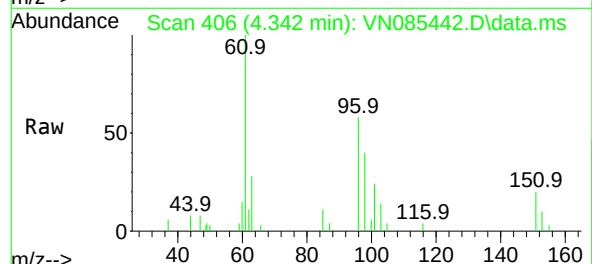
Tgt Ion: 96 Resp: 10429

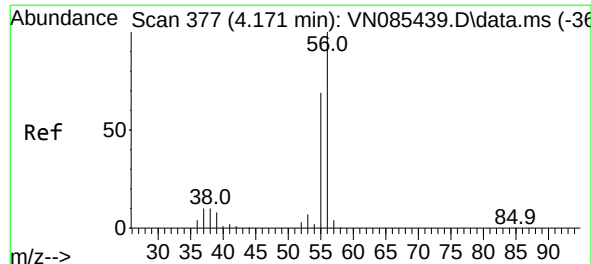
Ion Ratio Lower Upper

96 100

61 172.7 141.0 211.4

98 69.0 49.0 73.6





#13

Acrolein

Concen: 20.033 ug/l

RT: 4.171 min Scan# 377

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 9430

Ion Ratio Lower Upper

56 100

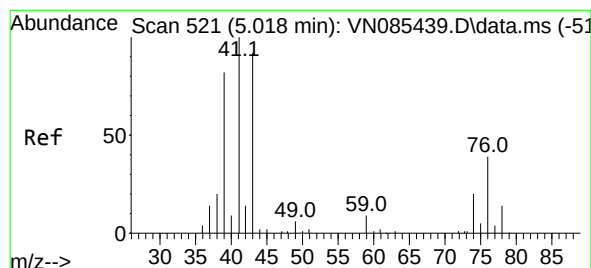
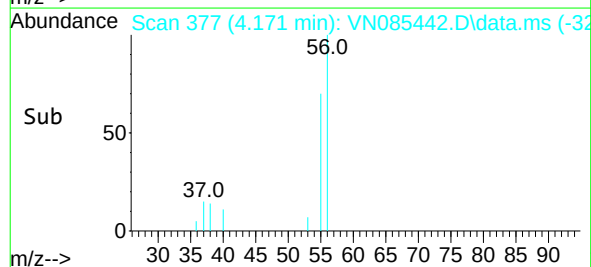
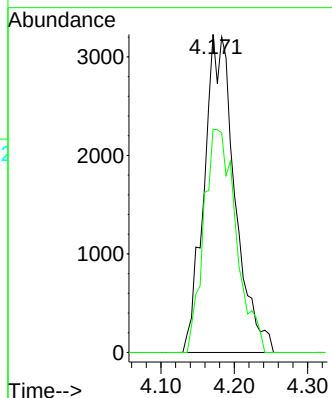
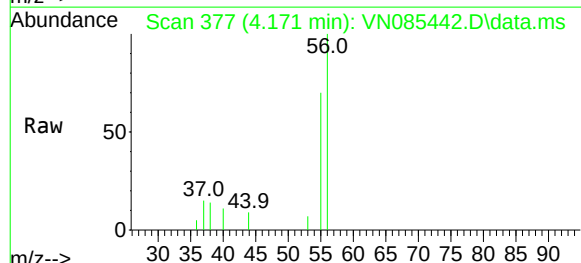
55 73.2 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 5.153 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

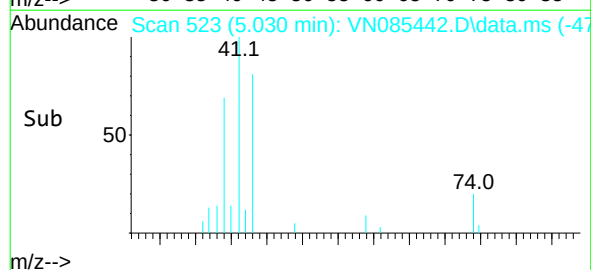
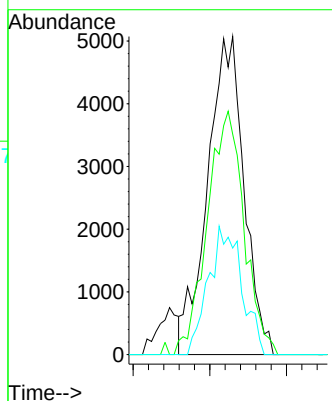
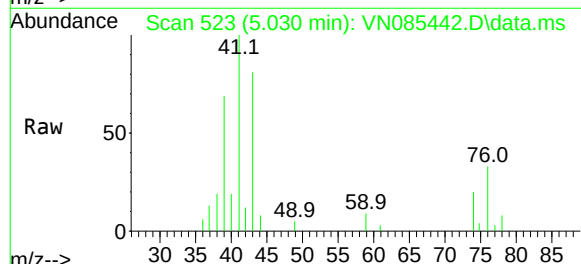
Tgt Ion: 41 Resp: 16741

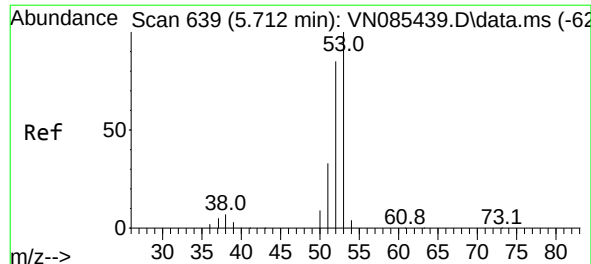
Ion Ratio Lower Upper

41 100

39 77.4 64.4 96.6

76 36.6 30.5 45.7





#15

Acrylonitrile

Concen: 25.445 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

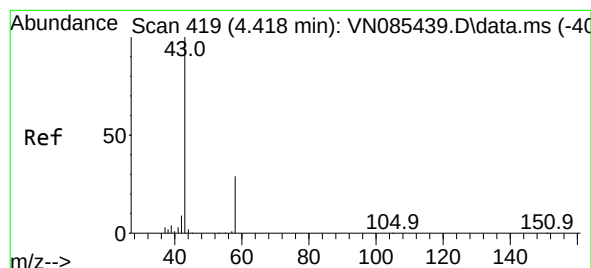
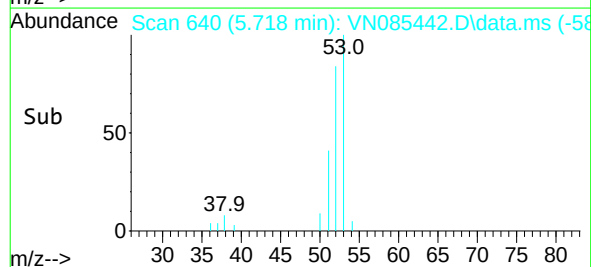
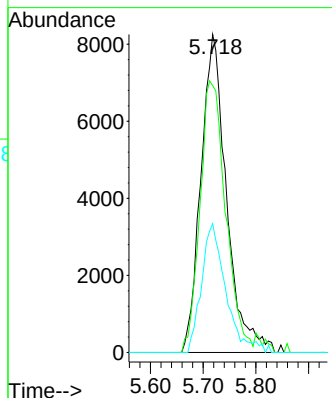
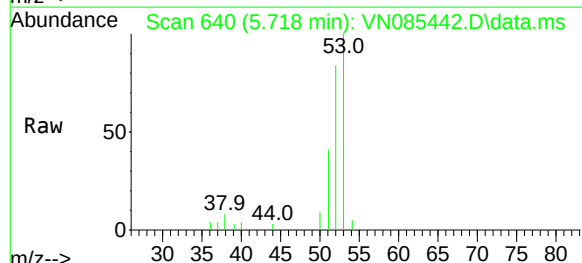
ClientSampleId :

VSTDICC005

Tgt Ion:	53	Resp:	27869
Ion	Ratio	Lower	Upper
53	100		
52	85.5	65.5	98.3
51	38.5	29.8	44.8

Manual Integrations
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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 25.819 ug/l

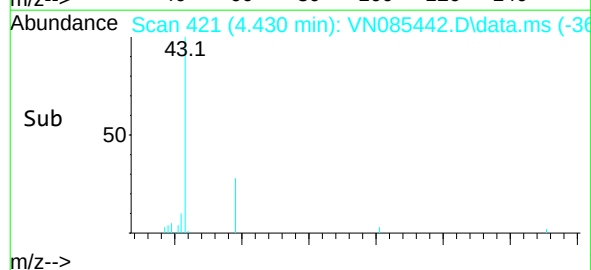
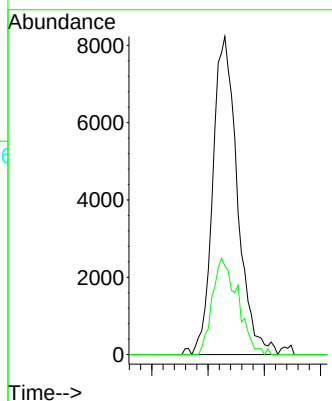
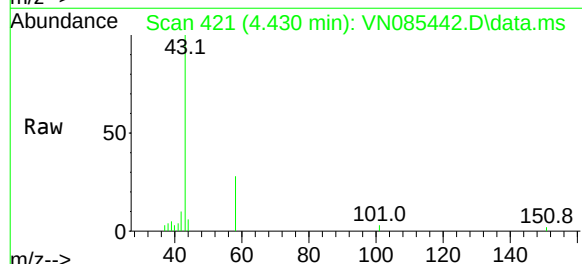
RT: 4.430 min Scan# 421

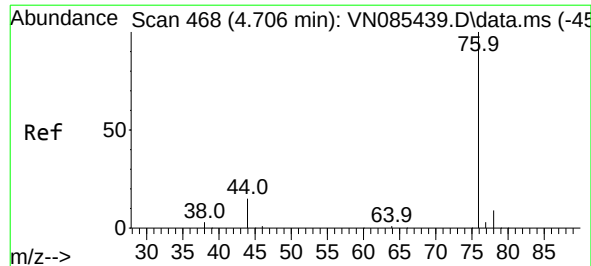
Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	43	Resp:	25122
Ion	Ratio	Lower	Upper
43	100		
58	27.9	23.8	35.6





#17

Carbon Disulfide

Concen: 5.202 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 32068

Ion Ratio Lower Upper

76 100

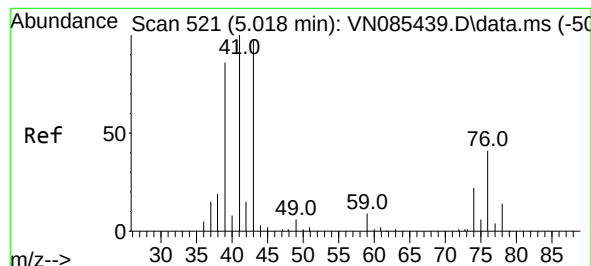
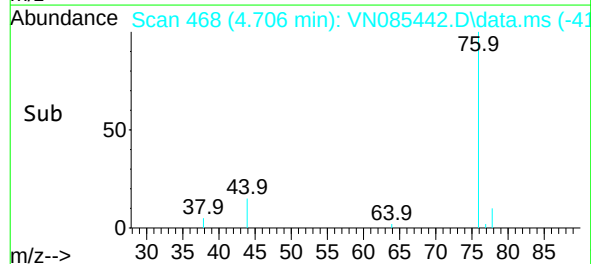
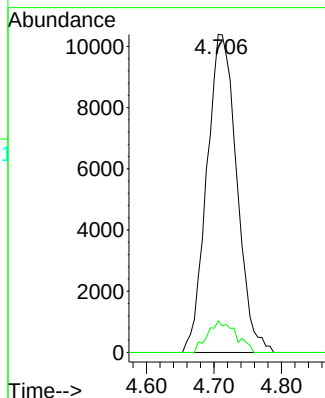
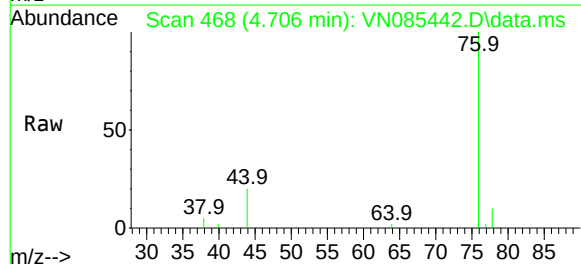
78 9.9 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 5.106 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085442.D

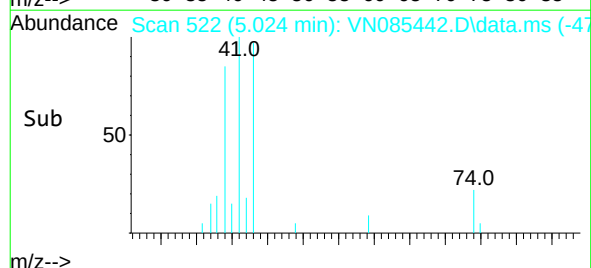
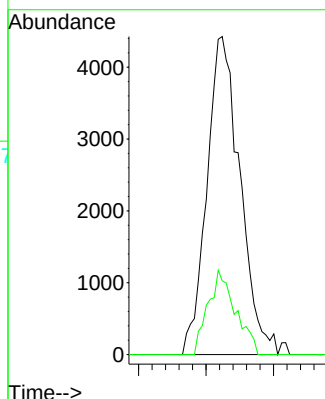
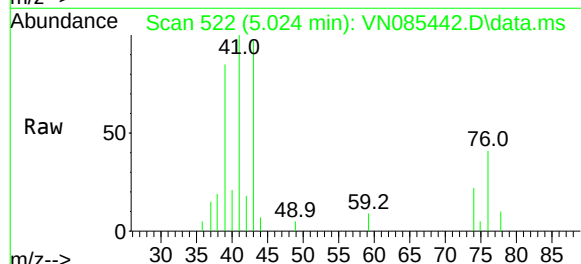
Acq: 14 Jan 2025 16:31

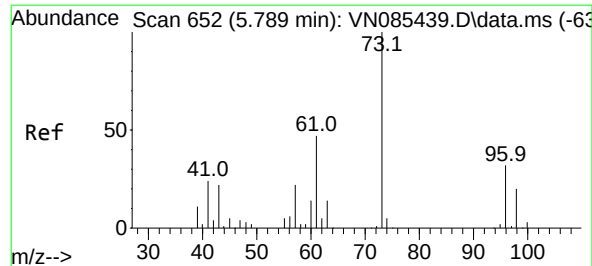
Tgt Ion: 43 Resp: 15106

Ion Ratio Lower Upper

43 100

74 22.0 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 4.836 ug/l

RT: 5.800 min Scan# 65

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 31439

Ion Ratio Lower Upper

73 100

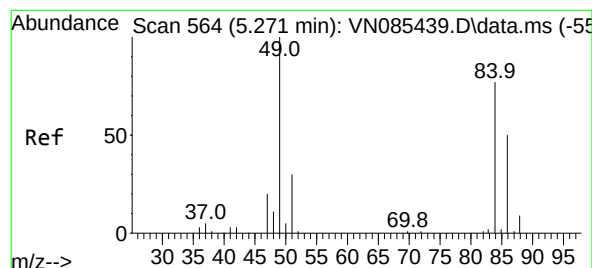
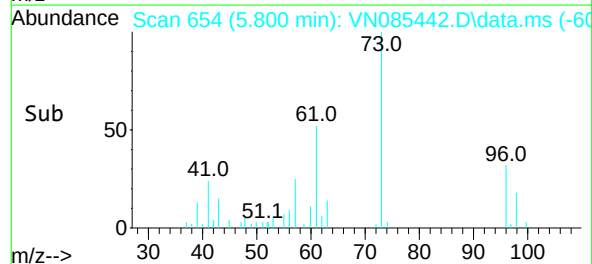
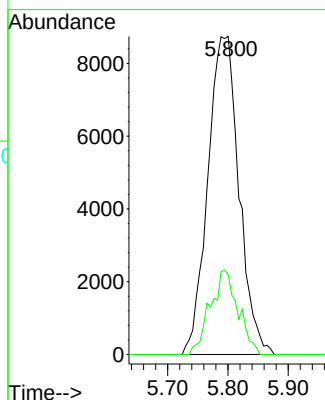
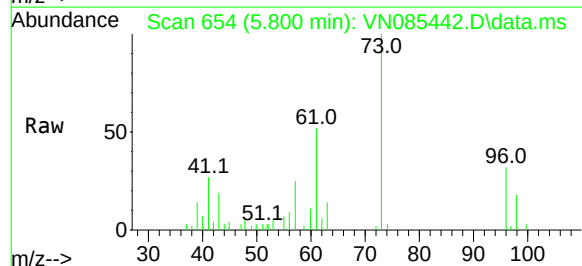
57 25.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 5.389 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 84 Resp: 12981

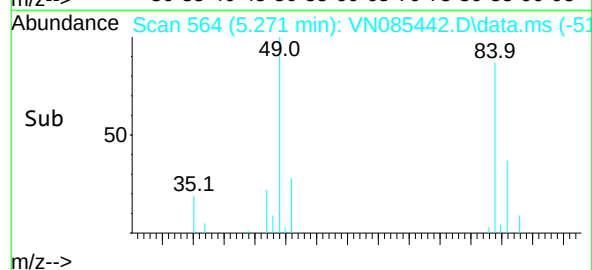
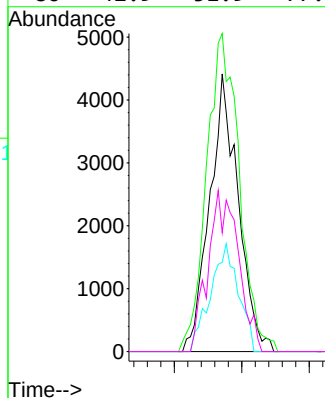
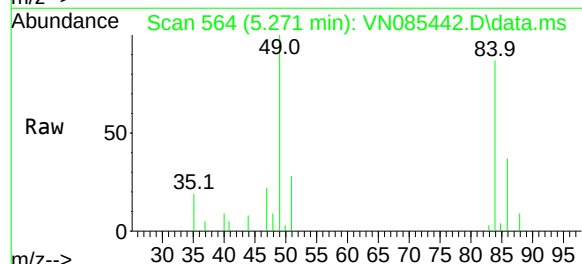
Ion Ratio Lower Upper

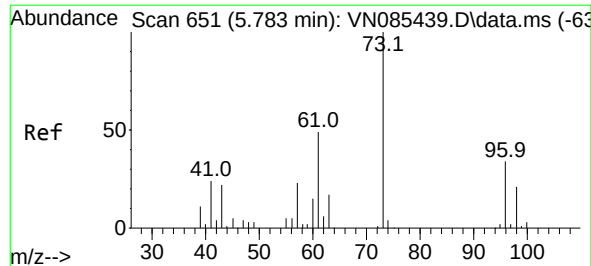
84 100

49 114.5 104.1 156.1

51 32.1 31.0 46.4

86 42.9 51.9 77.9#





#21

trans-1,2-Dichloroethene

Concen: 4.960 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085442.D

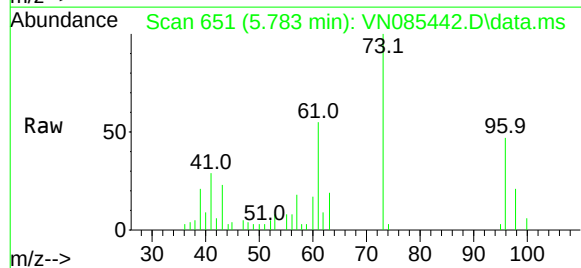
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 96 Resp: 10614

Ion Ratio Lower Upper

96 100

61 118.1 115.7 173.5

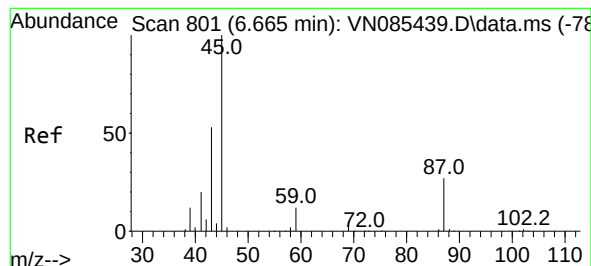
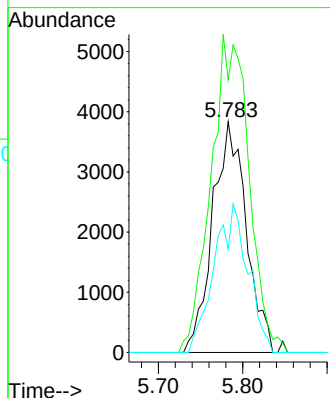
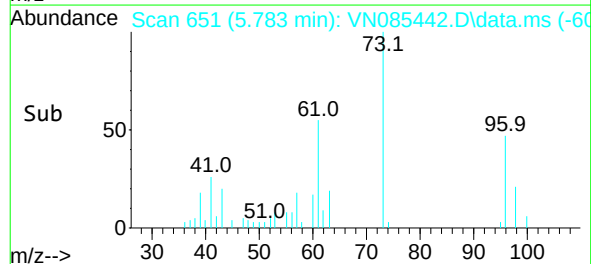
98 44.7 49.8 74.8#

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

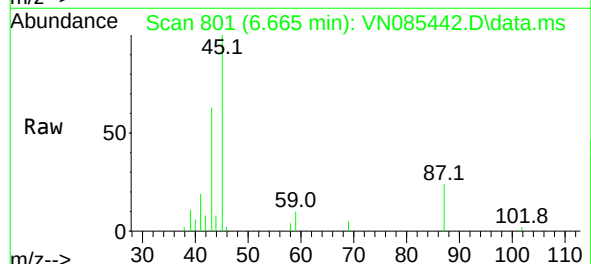
Concen: 4.962 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31



Tgt Ion: 45 Resp: 35785

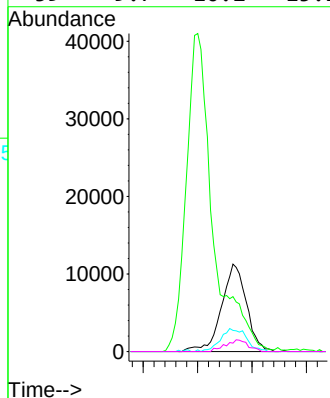
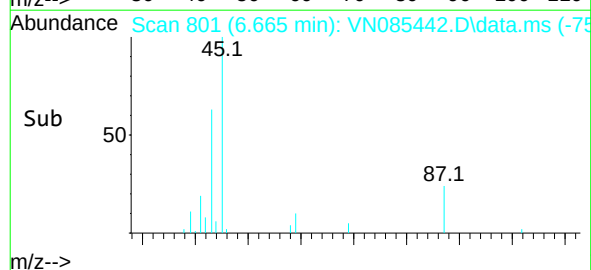
Ion Ratio Lower Upper

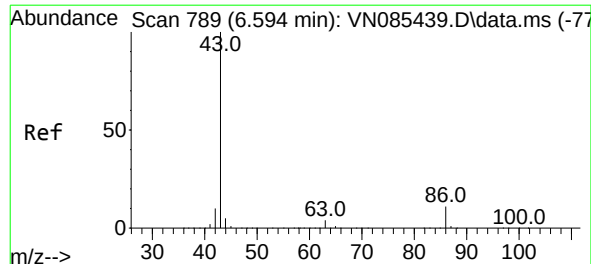
45 100

43 58.3 45.0 67.6

87 24.2 21.8 32.8

59 9.7 10.2 15.2#





#23

Vinyl Acetate

Concen: 23.389 ug/l m

RT: 6.600 min Scan# 79

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 118439

Ion Ratio Lower Upper

43 100

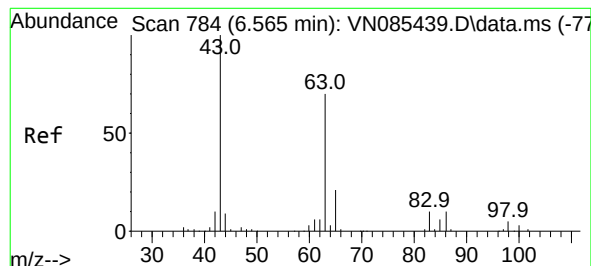
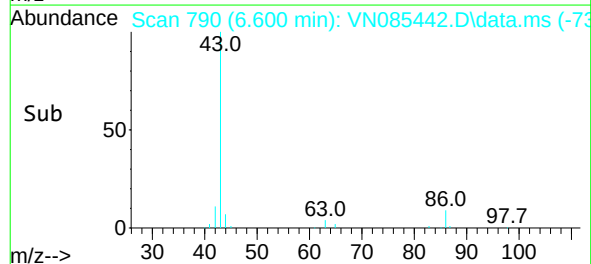
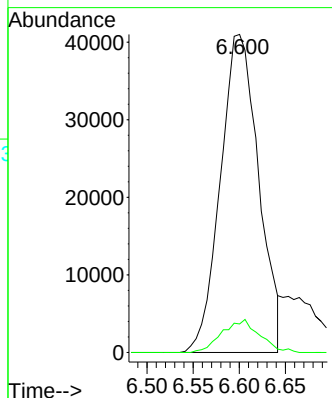
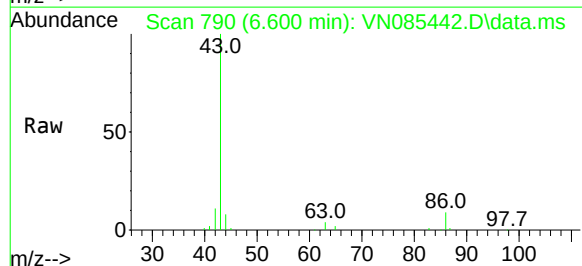
86 9.0 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 5.200 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

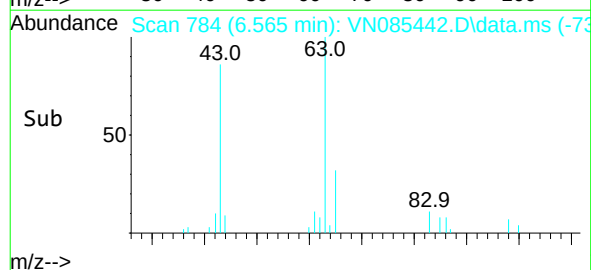
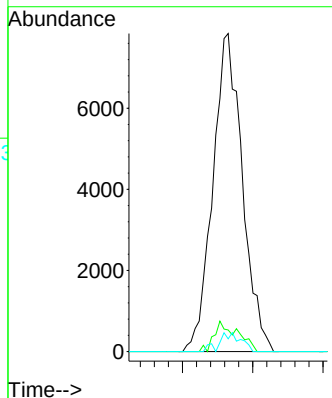
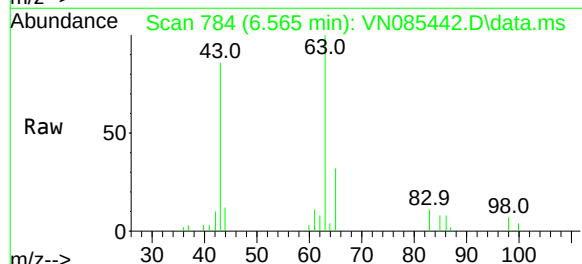
Tgt Ion: 63 Resp: 22865

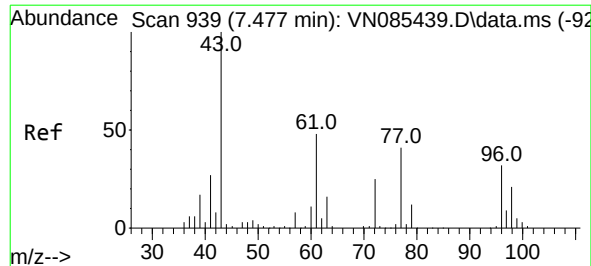
Ion Ratio Lower Upper

63 100

98 6.8 3.3 9.8

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 25.231 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 36127

Ion Ratio Lower Upper

43 100

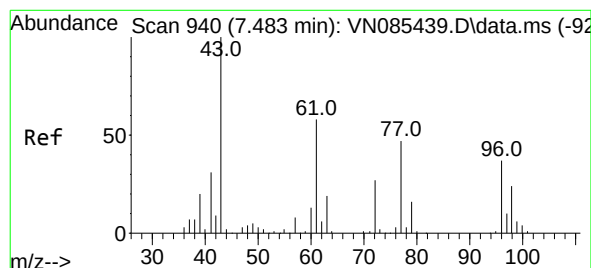
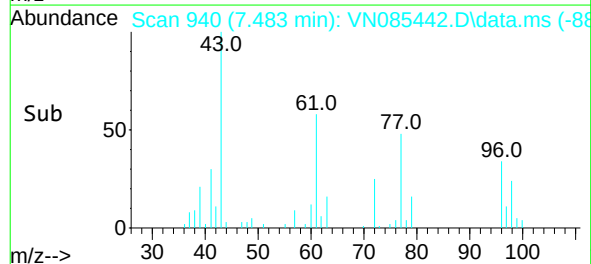
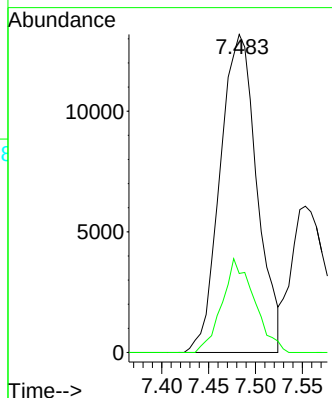
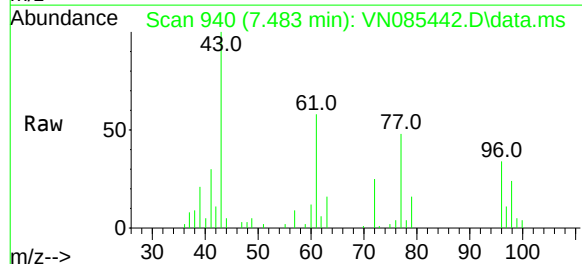
72 24.9 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 5.175 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085442.D

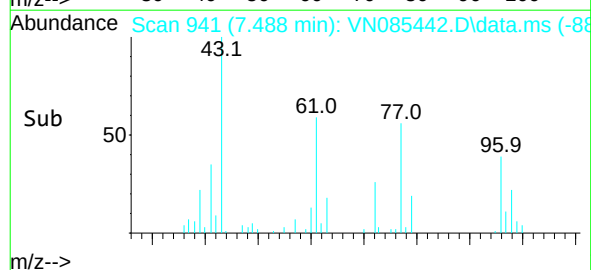
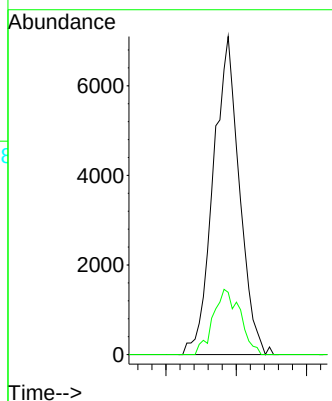
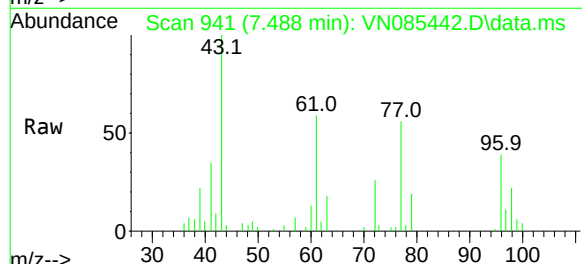
Acq: 14 Jan 2025 16:31

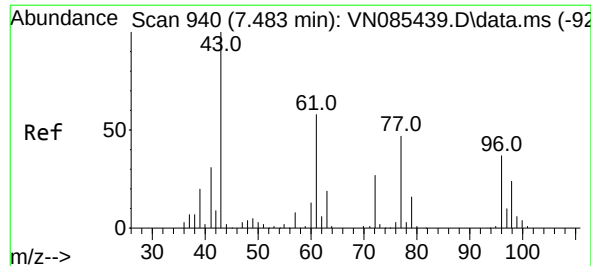
Tgt Ion: 77 Resp: 18398

Ion Ratio Lower Upper

77 100

97 21.2 10.7 32.1





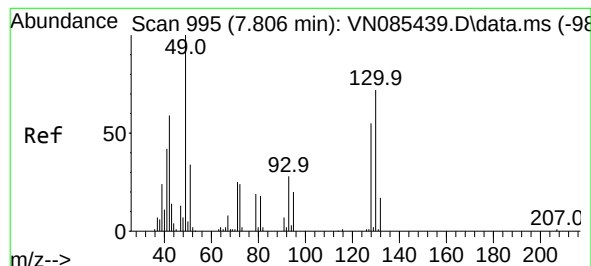
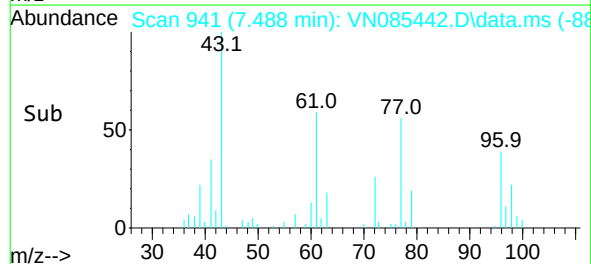
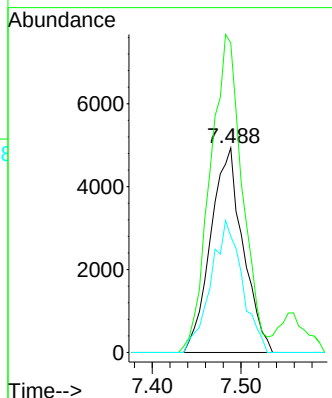
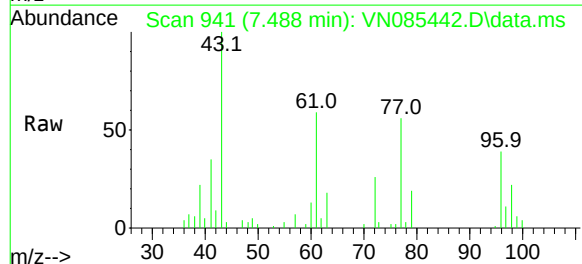
#27
cis-1,2-Dichloroethene
Concen: 4.951 ug/l
RT: 7.488 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 96 Resp: 12477
Ion Ratio Lower Upper
96 100
61 154.5 0.0 311.8
98 62.8 0.0 126.0

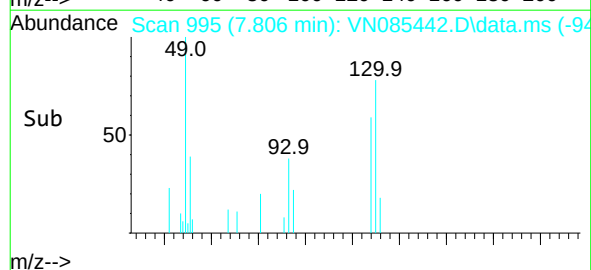
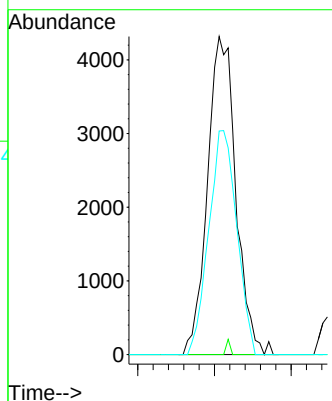
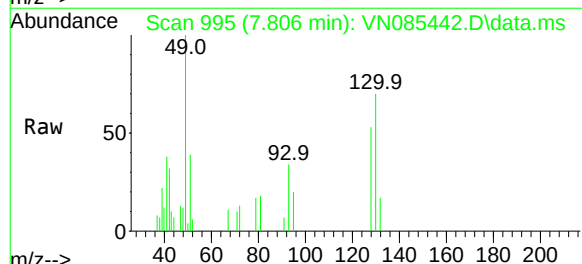
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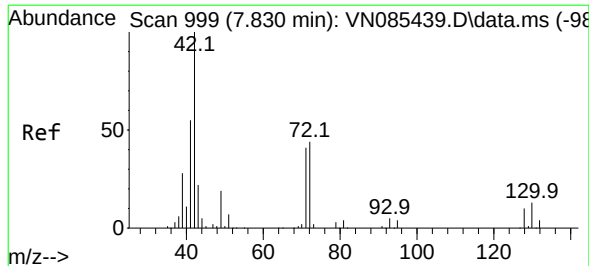
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 5.424 ug/l
RT: 7.806 min Scan# 995
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 49 Resp: 11096
Ion Ratio Lower Upper
49 100
129 0.7 0.0 4.4
130 69.5 55.0 82.4





#29

Tetrahydrofuran

Concen: 24.215 ug/l

RT: 7.841 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 42 Resp: 21983

Ion Ratio Lower Upper

42 100

72 41.5 34.2 51.2

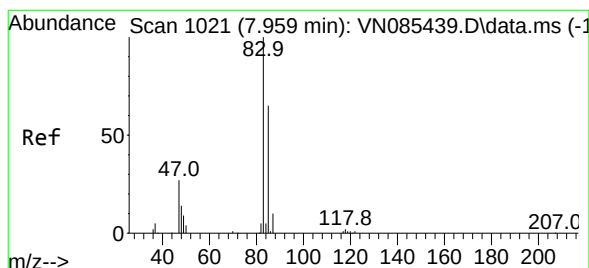
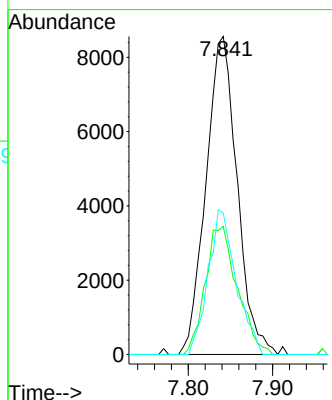
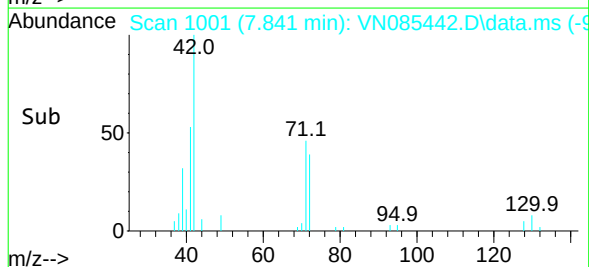
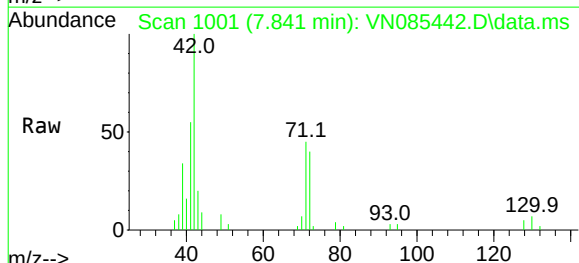
71 41.0 32.5 48.7

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 5.146 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085442.D

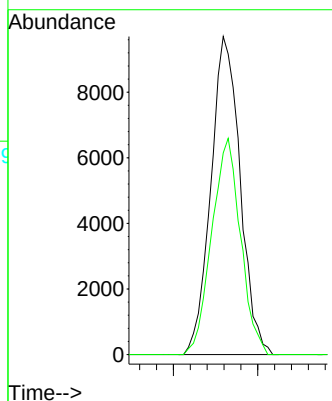
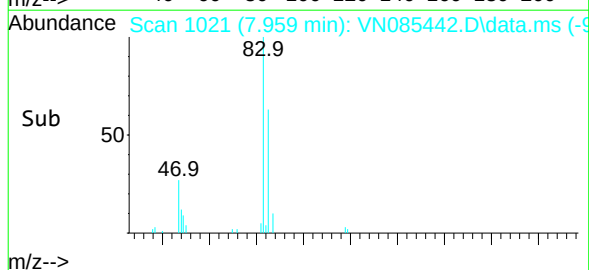
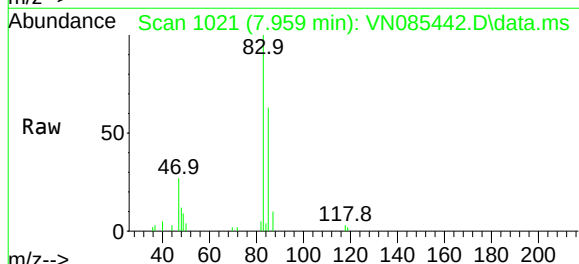
Acq: 14 Jan 2025 16:31

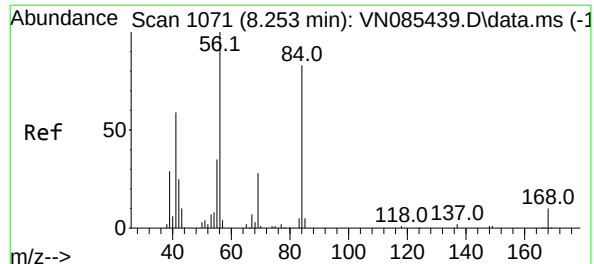
Tgt Ion: 83 Resp: 23384

Ion Ratio Lower Upper

83 100

85 63.4 51.8 77.6





#31

Cyclohexane

Concen: 5.846 ug/l

RT: 8.247 min Scan# 1071

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 22343

Ion Ratio Lower Upper

56 100

69 42.3 22.2 33.4

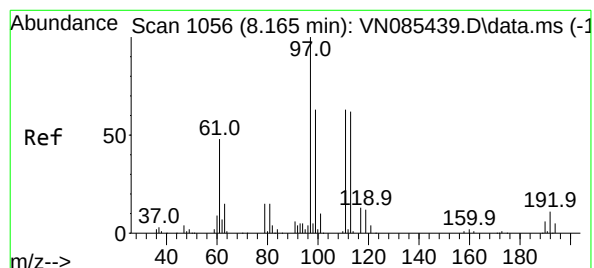
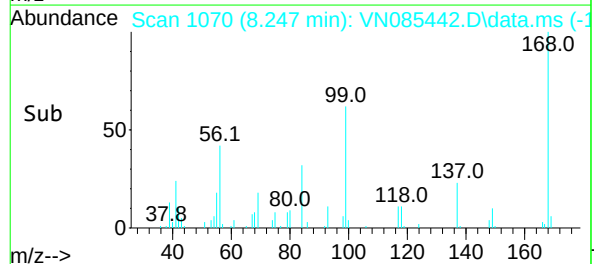
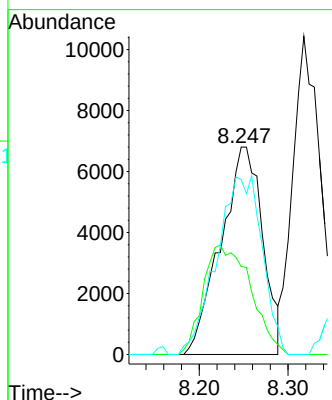
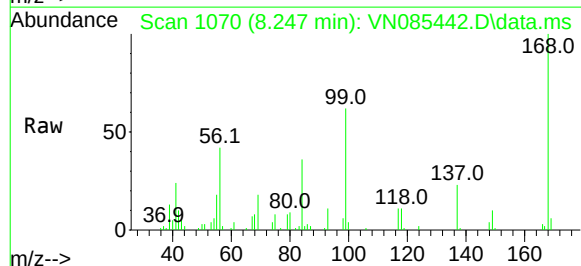
84 84.3 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 5.372 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

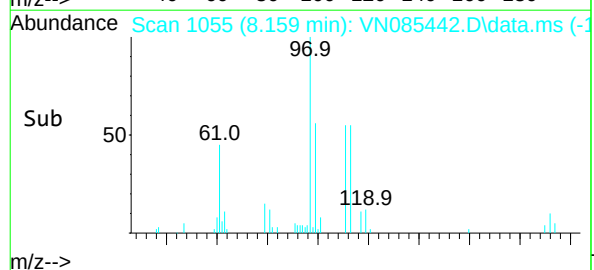
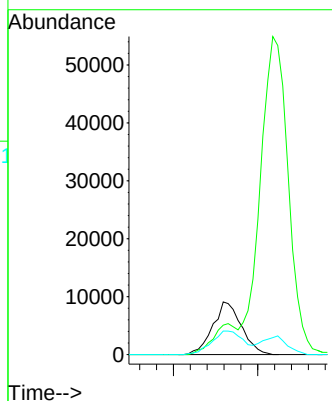
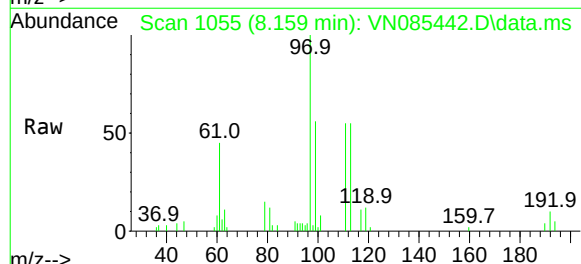
Tgt Ion: 97 Resp: 21416

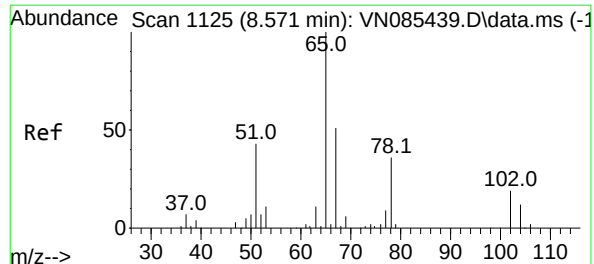
Ion Ratio Lower Upper

97 100

99 50.5 49.8 74.6

61 50.1 41.4 62.2





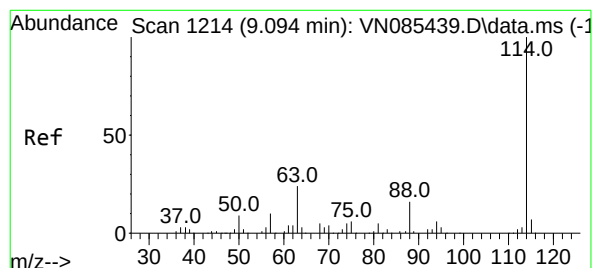
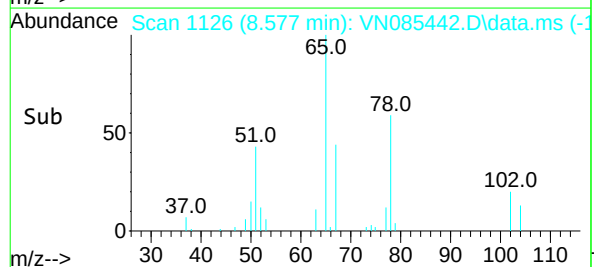
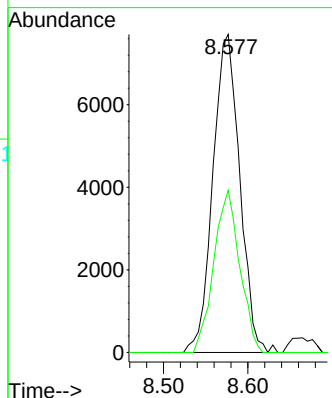
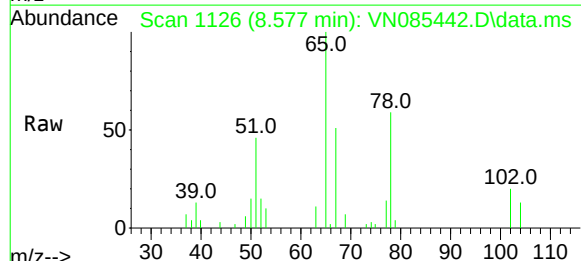
#33
1,2-Dichloroethane-d4
Concen: 5.660 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 17046
Ion Ratio Lower Upper
65 100
67 49.2 0.0 101.6

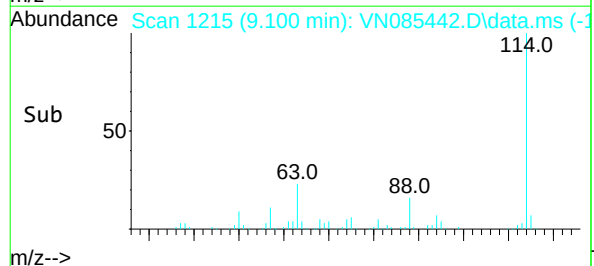
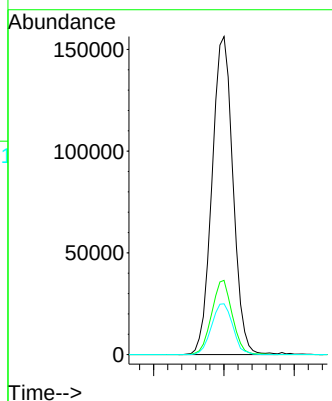
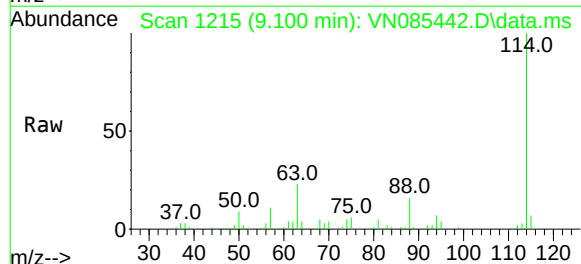
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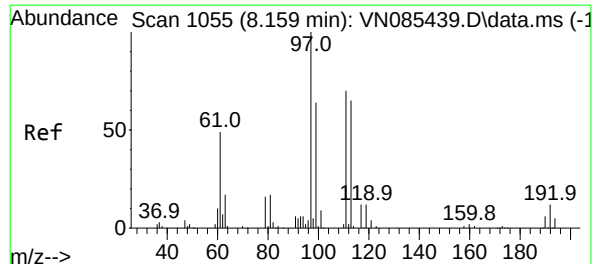
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:114 Resp: 324413
Ion Ratio Lower Upper
114 100
63 23.3 0.0 47.6
88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 5.377 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 113 Resp: 12102

Ion Ratio Lower Upper

113 100

111 107.4 82.7 124.1

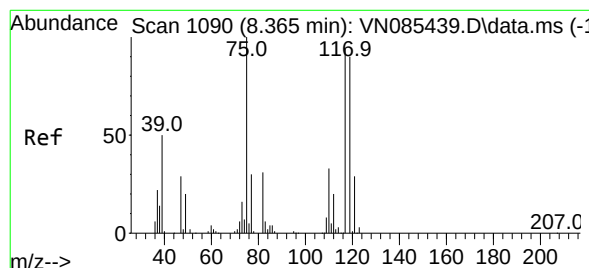
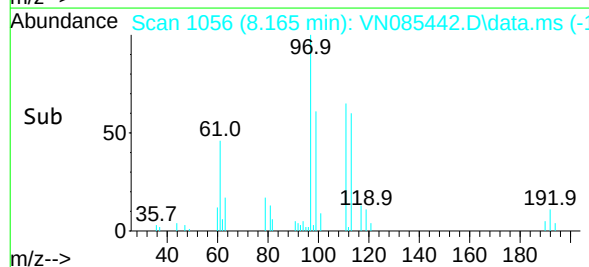
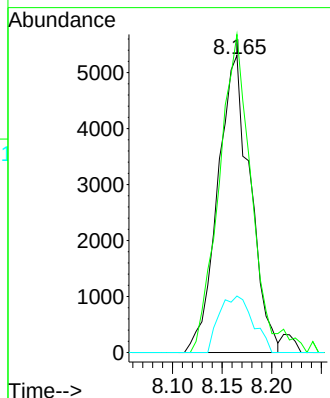
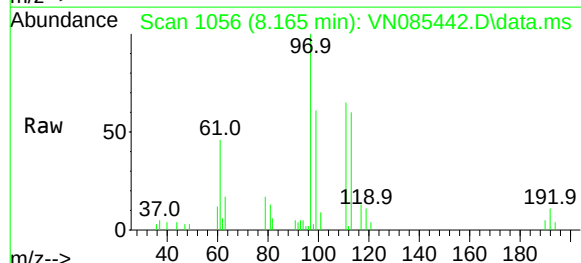
192 19.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By : John Carlone 01/15/2025

Supervised By : Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 5.029 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

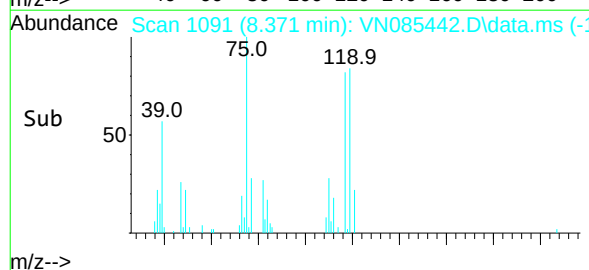
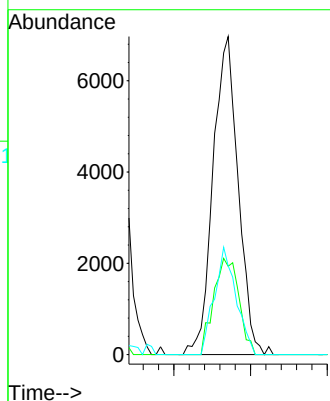
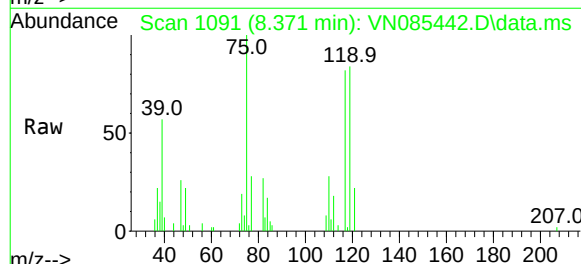
Tgt Ion: 75 Resp: 15886

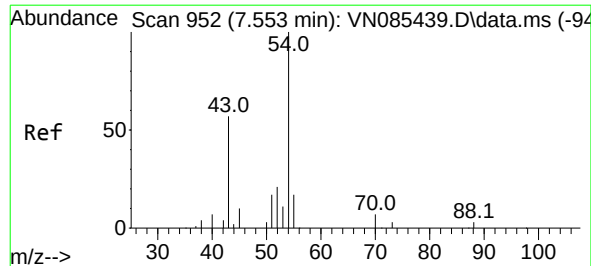
Ion Ratio Lower Upper

75 100

110 30.3 16.5 49.5

77 29.2 24.4 36.6





#37

Ethyl Acetate

Concen: 5.294 ug/l m

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

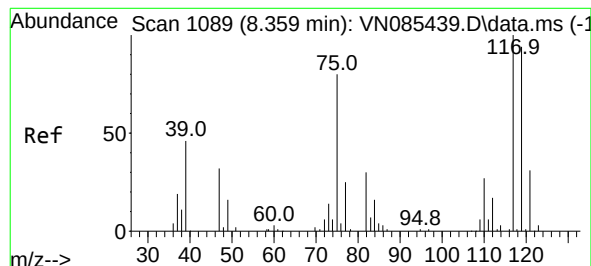
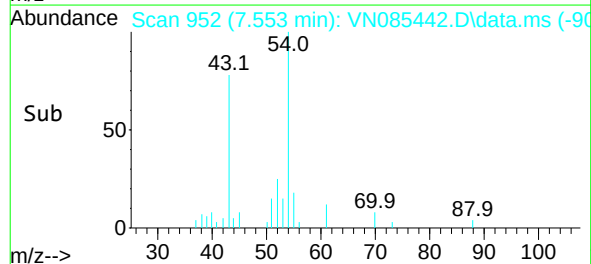
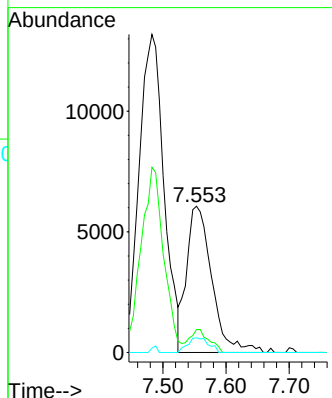
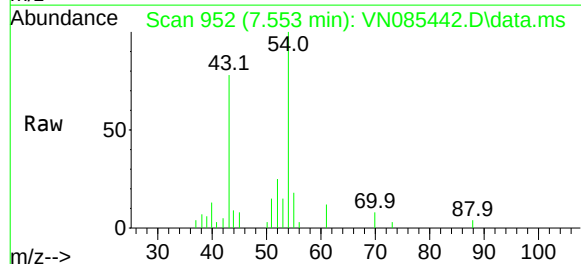
ClientSampleId :

VSTDIC005

Tgt Ion:	43	Resp:	16879
Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.9	16.3
70	8.4	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 5.065 ug/l

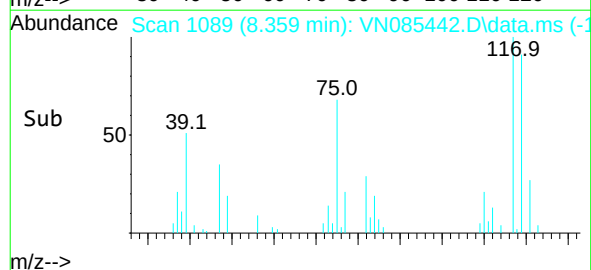
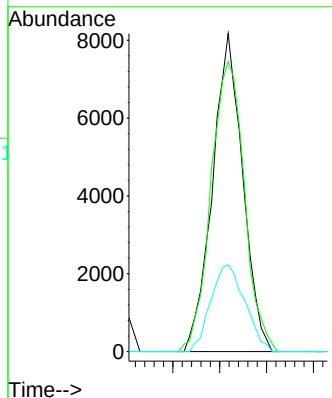
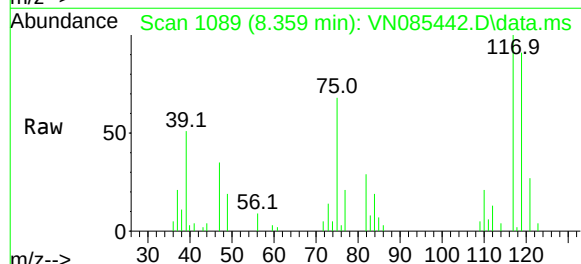
RT: 8.359 min Scan# 1089

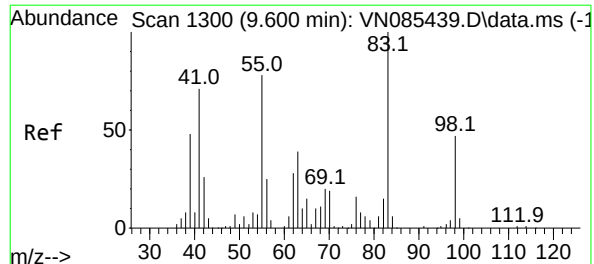
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	117	Resp:	18317
Ion	Ratio	Lower	Upper
117	100		
119	91.1	75.4	113.2
121	27.3	24.6	37.0





#39

Methylcyclohexane

Concen: 4.776 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

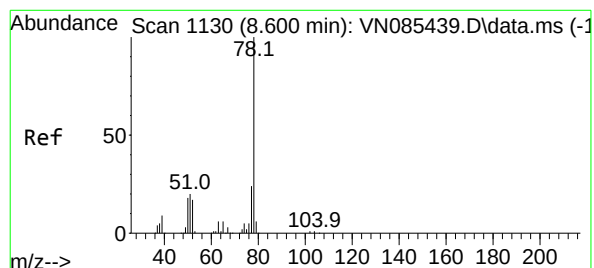
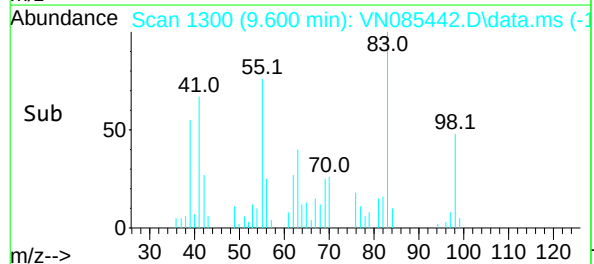
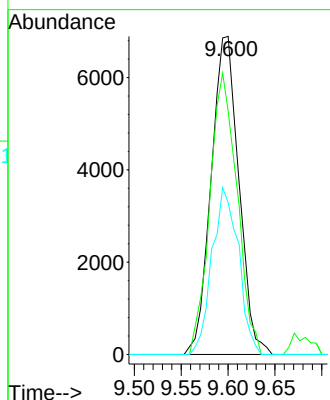
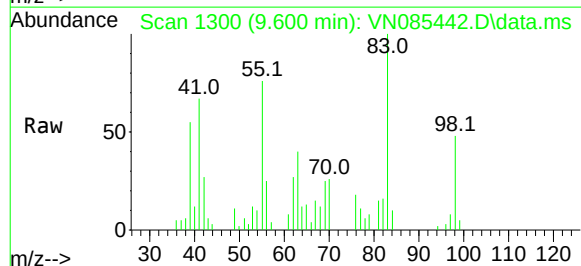
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	14175
Ion	Ratio	Lower	Upper
83	100		
55	76.5	62.6	94.0
98	47.7	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 5.040 ug/l

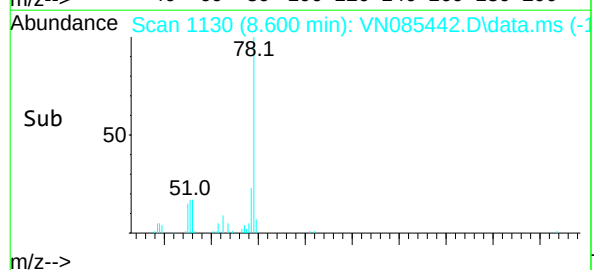
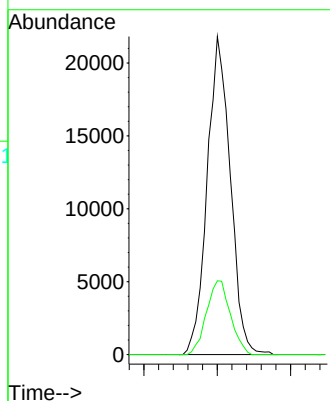
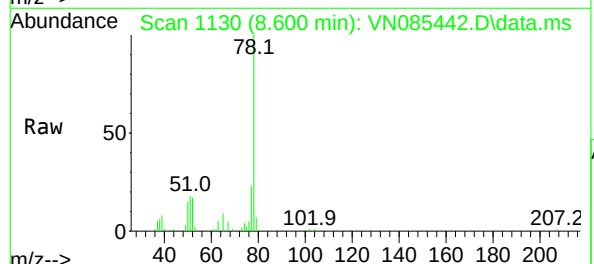
RT: 8.600 min Scan# 1130

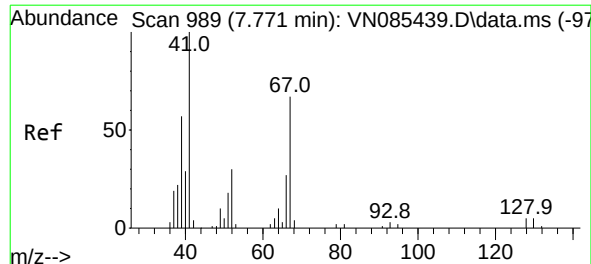
Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	78	Resp:	47833
Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.6





#41

Methacrylonitrile

Concen: 4.449 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 41 Resp: 7380

Ion Ratio Lower Upper

41 100

39 60.5 46.0 69.0

67 74.6 57.4 86.2

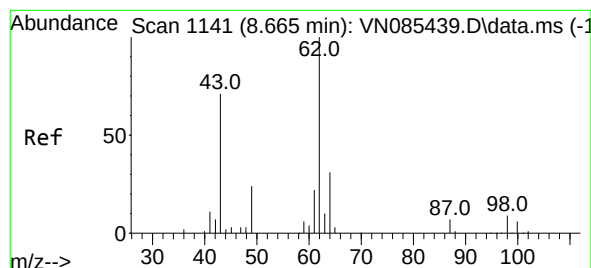
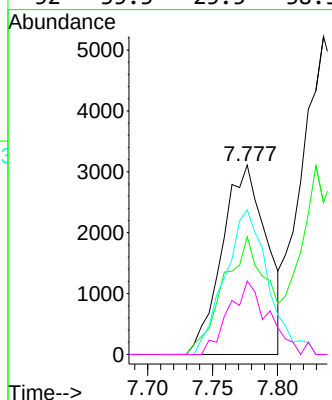
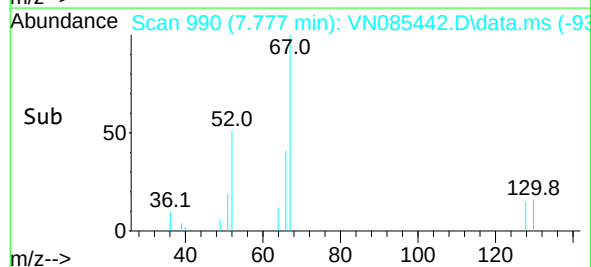
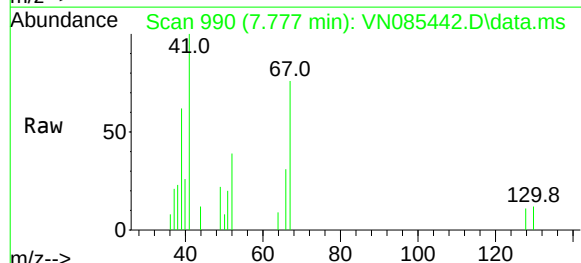
52 35.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 5.211 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085442.D

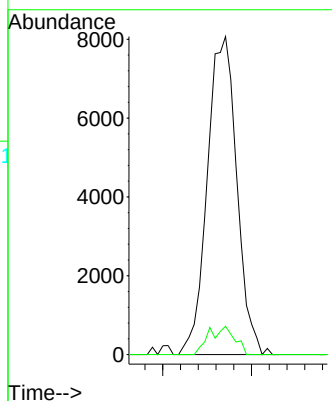
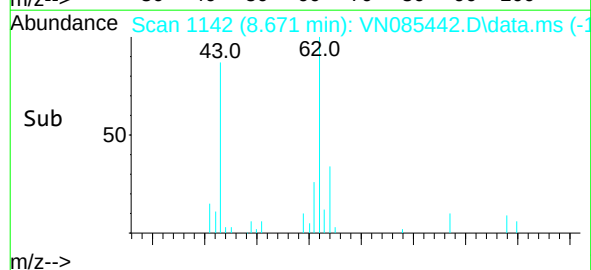
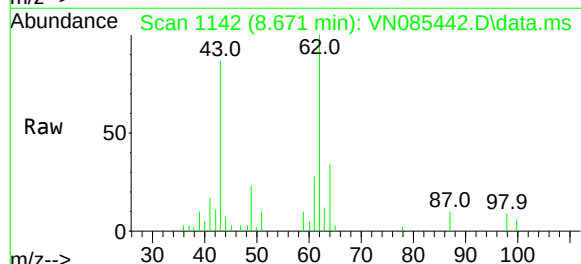
Acq: 14 Jan 2025 16:31

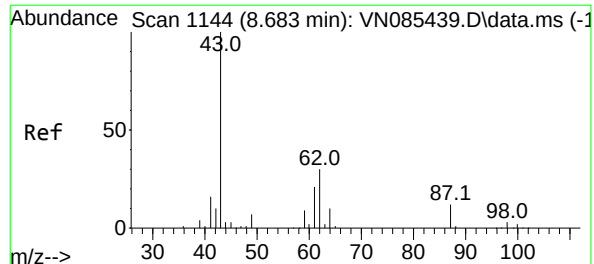
Tgt Ion: 62 Resp: 18628

Ion Ratio Lower Upper

62 100

98 7.8 0.0 17.0





#43

Isopropyl Acetate

Concen: 4.853 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

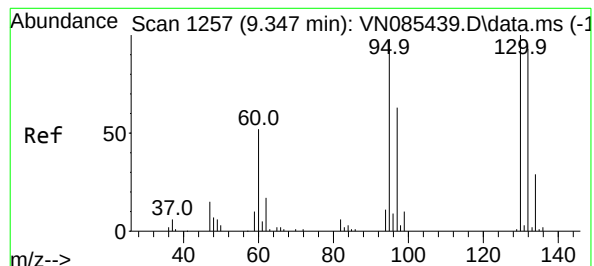
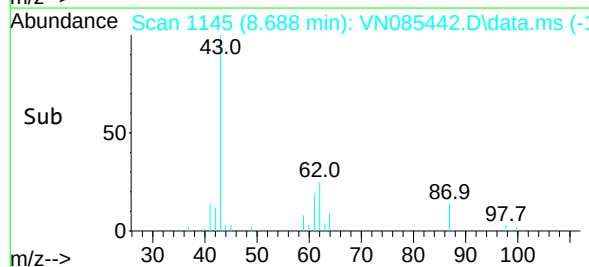
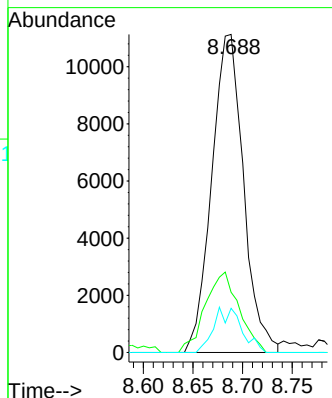
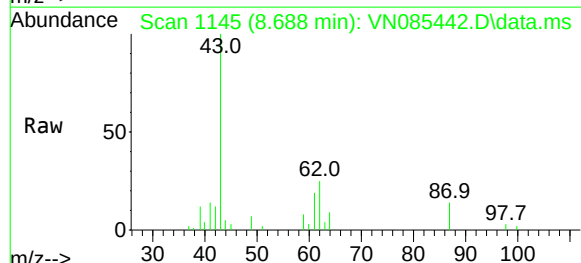
VSTDIC005

Tgt Ion:	43	Resp:	24792
Ion	Ratio	Lower	Upper
43	100		
61	27.0	20.7	31.1
87	12.3	9.8	14.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 5.039 ug/l

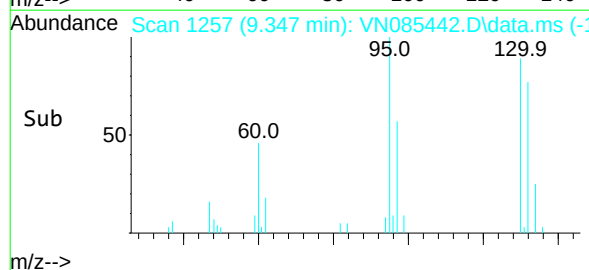
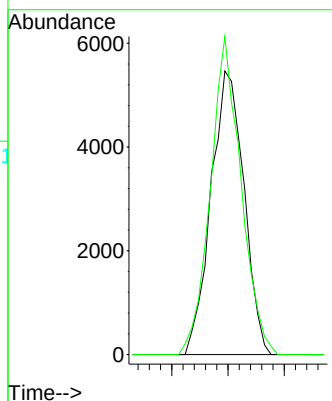
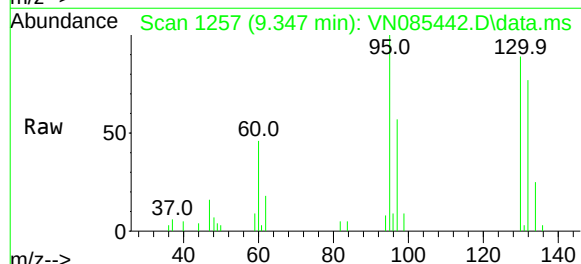
RT: 9.347 min Scan# 1257

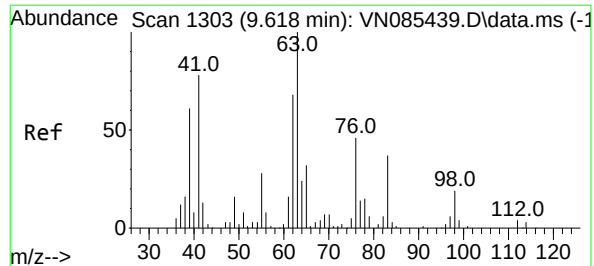
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	130	Resp:	11133
Ion	Ratio	Lower	Upper
130	100		
95	112.2	0.0	195.8





#45

1,2-Dichloropropane

Concen: 5.194 ug/l

RT: 9.618 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 12591

Ion Ratio Lower Upper

63 100

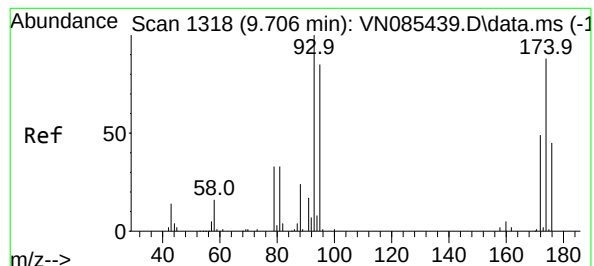
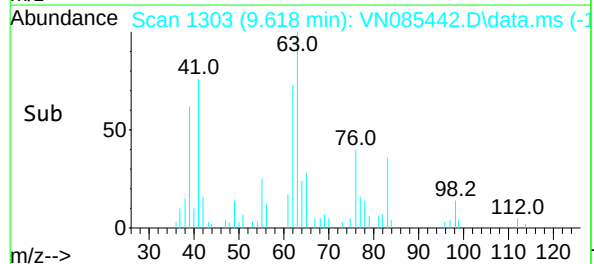
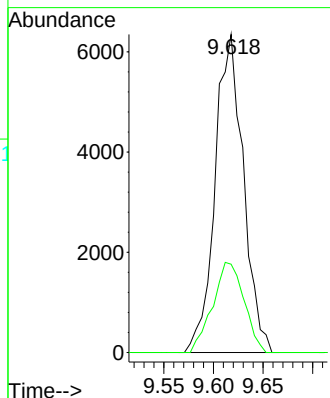
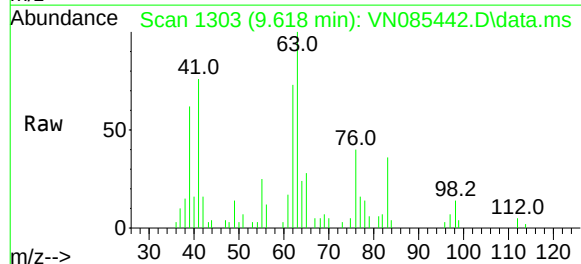
65 27.8 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#46

Dibromomethane

Concen: 4.705 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

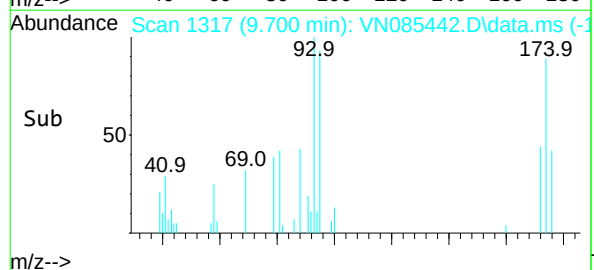
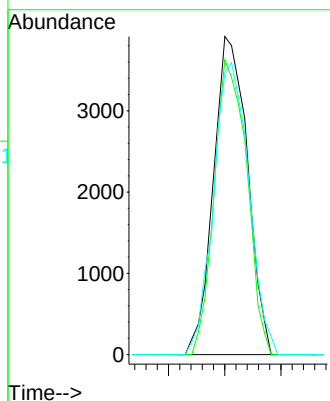
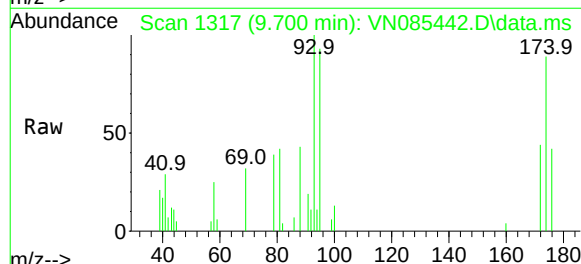
Tgt Ion: 93 Resp: 8230

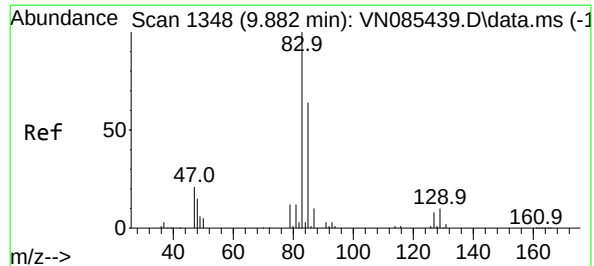
Ion Ratio Lower Upper

93 100

95 88.7 64.7 97.1

174 95.0 69.0 103.4





#47

Bromodichloromethane

Concen: 5.179 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

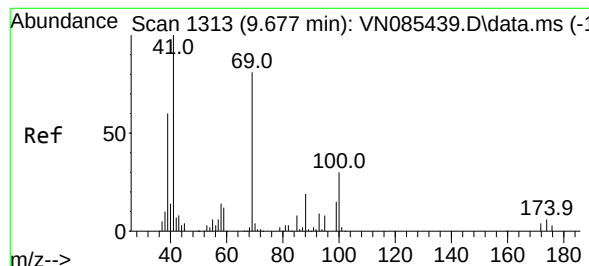
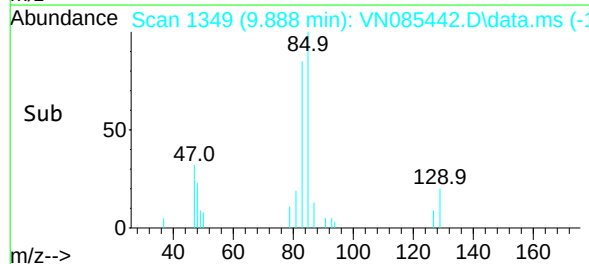
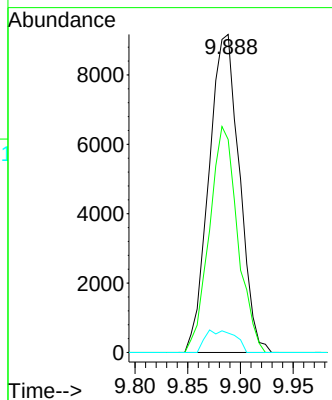
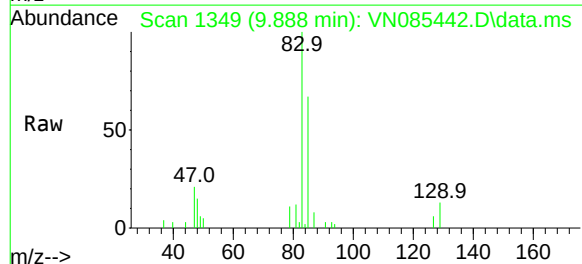
VSTDIC005

Tgt Ion:	83	Resp:	18456
Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.2	76.8
127	6.1	6.5	9.7#

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 4.599 ug/l

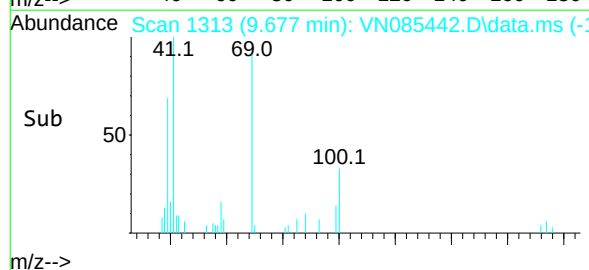
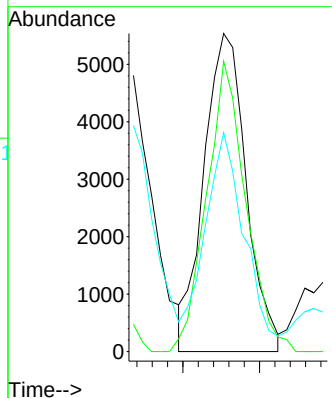
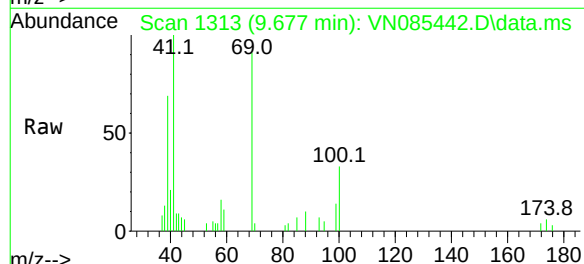
RT: 9.677 min Scan# 1313

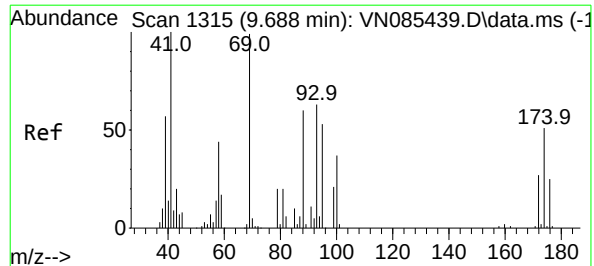
Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	41	Resp:	10574
Ion	Ratio	Lower	Upper
41	100		
69	84.9	64.7	97.1
39	65.3	49.0	73.6





#49

1,4-Dioxane

Concen: 93.477 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 88 Resp: 3619

Ion Ratio Lower Upper

88 100

43 32.3 26.6 39.8

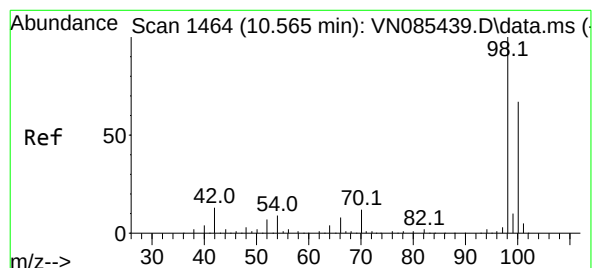
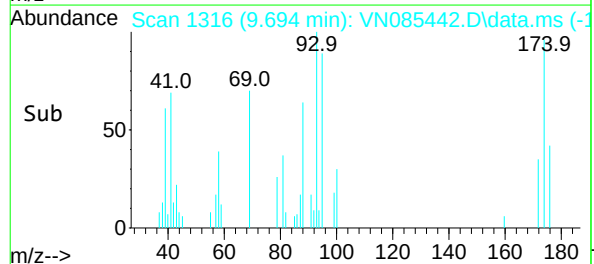
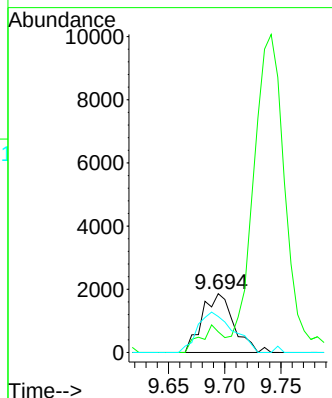
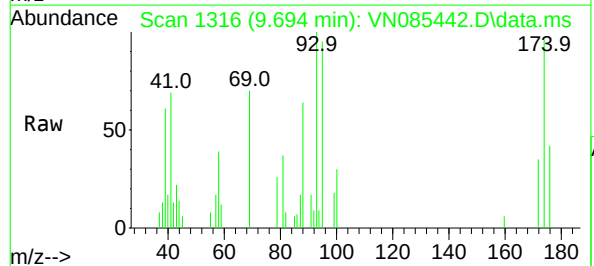
58 77.9 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 5.168 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085442.D

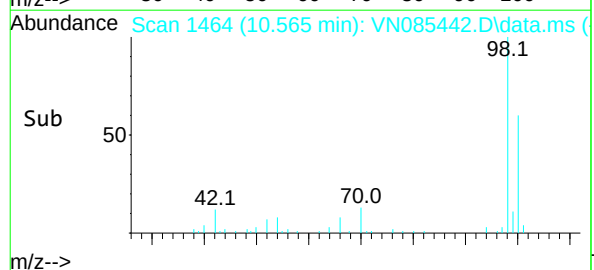
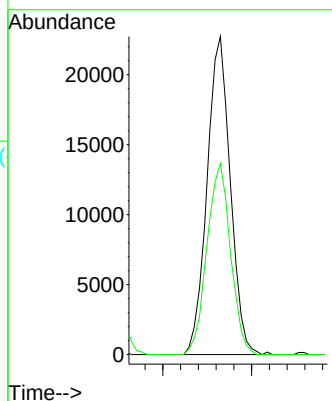
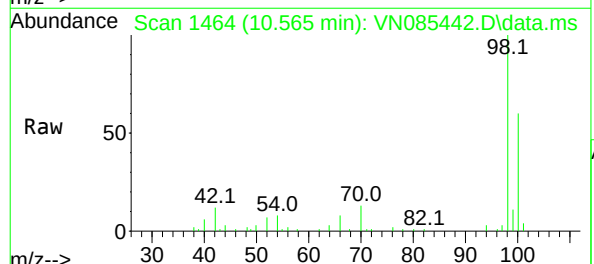
Acq: 14 Jan 2025 16:31

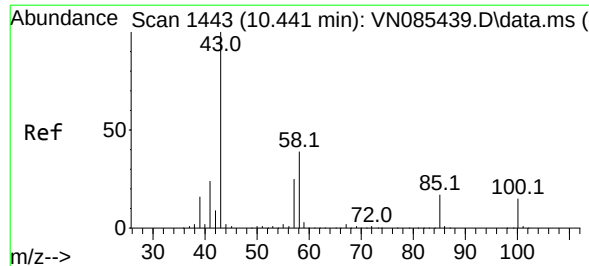
Tgt Ion: 98 Resp: 41328

Ion Ratio Lower Upper

98 100

100 60.9 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 24.250 ug/l

RT: 10.441 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 71889

Ion Ratio Lower Upper

43 100

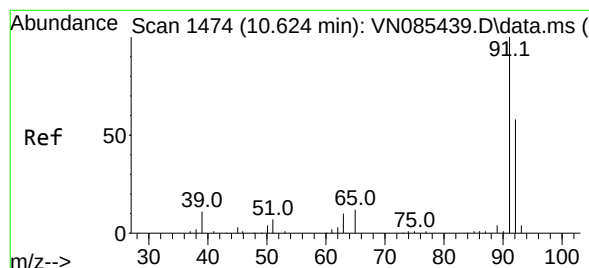
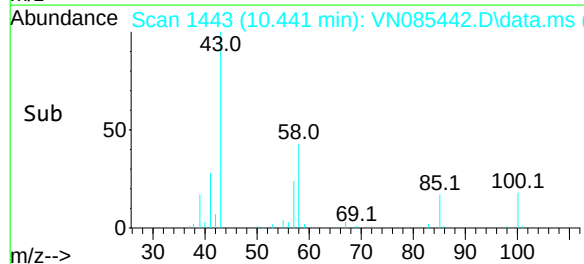
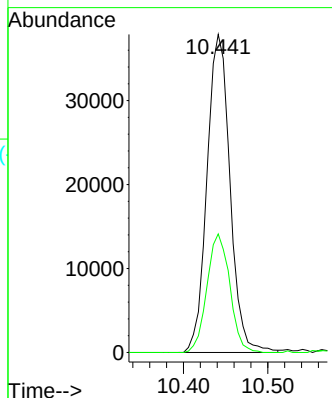
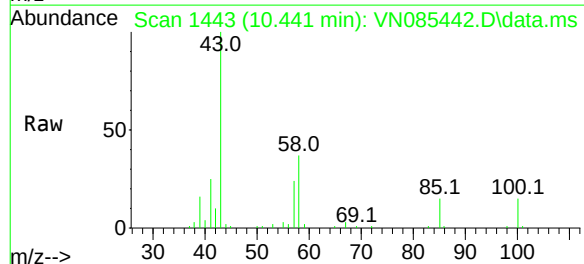
58 36.9 30.5 45.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#52

Toluene

Concen: 4.928 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.005 min

Lab File: VN085442.D

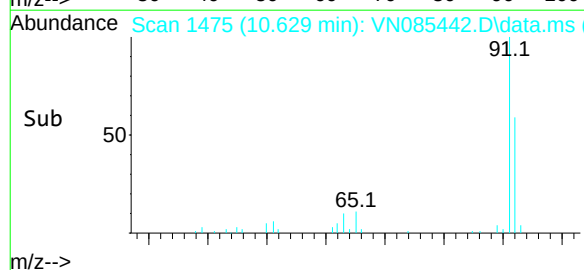
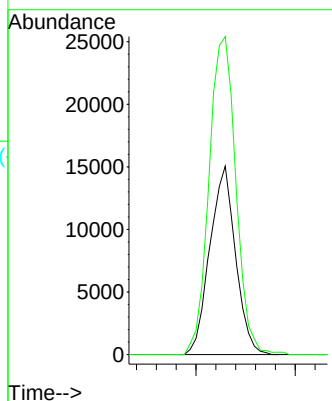
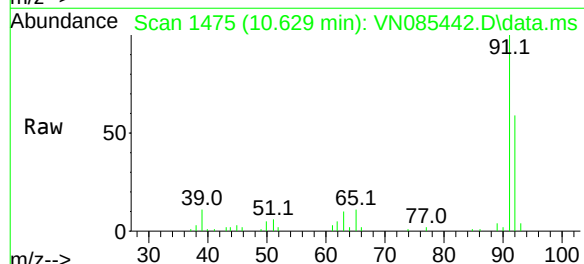
Acq: 14 Jan 2025 16:31

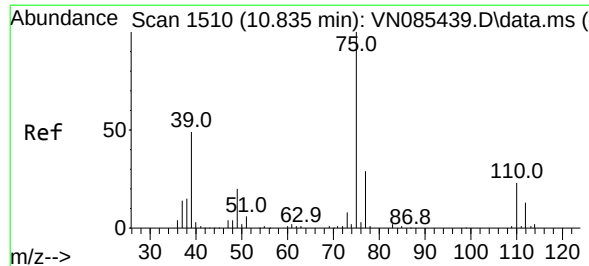
Tgt Ion: 92 Resp: 27098

Ion Ratio Lower Upper

92 100

91 176.4 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 5.077 ug/l

RT: 10.829 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 17099

Ion Ratio Lower Upper

75 100

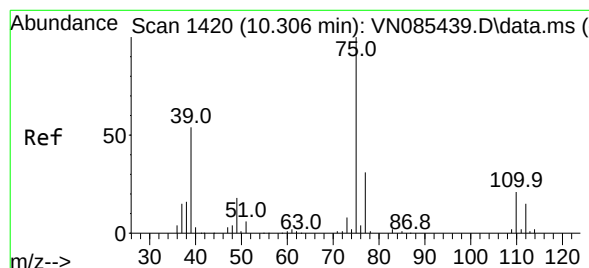
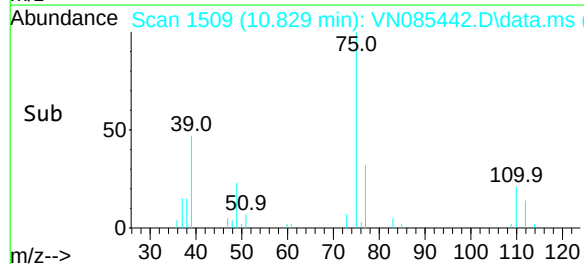
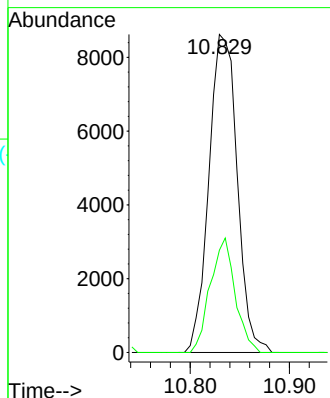
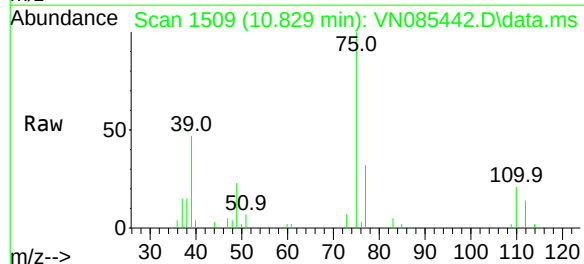
77 32.2 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 4.848 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

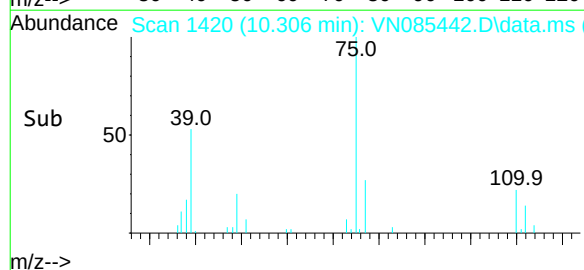
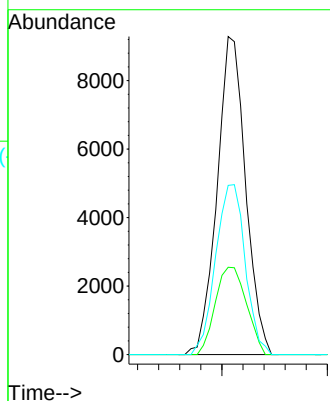
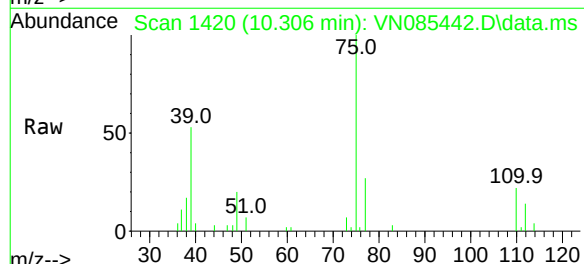
Tgt Ion: 75 Resp: 17440

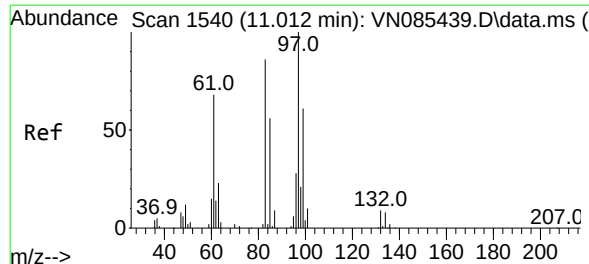
Ion Ratio Lower Upper

75 100

77 27.5 25.0 37.4

39 53.2 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 5.197 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 11311

Ion Ratio Lower Upper

97 100

83 82.7 69.0 103.6

85 51.3 44.6 66.8

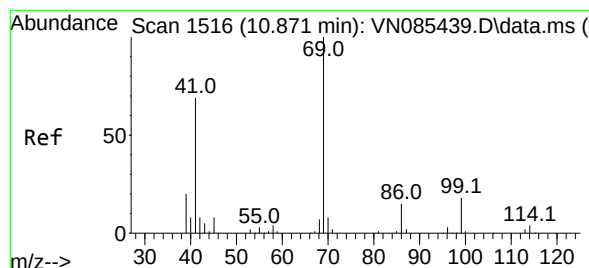
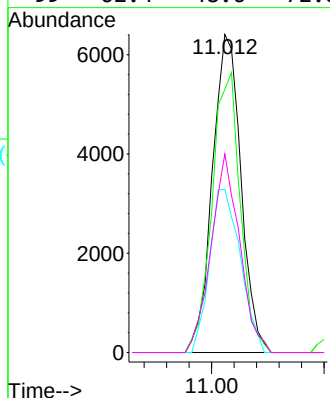
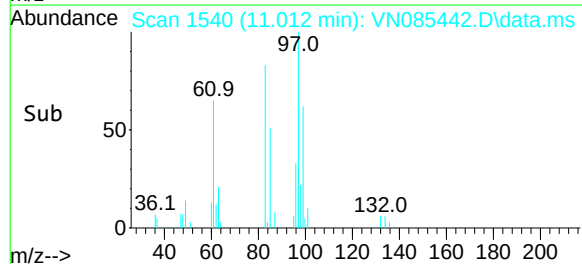
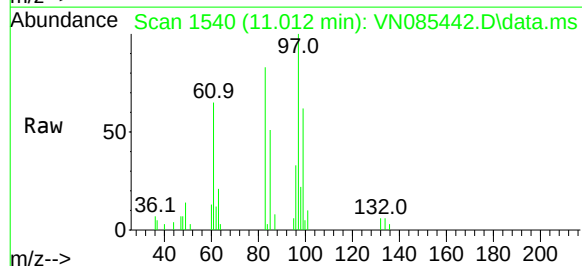
99 62.4 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 5.627 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

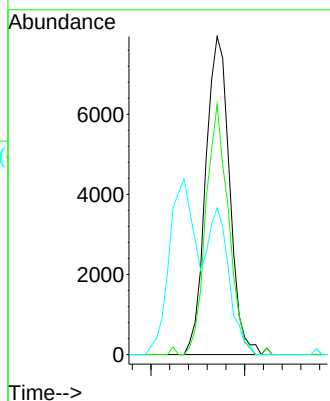
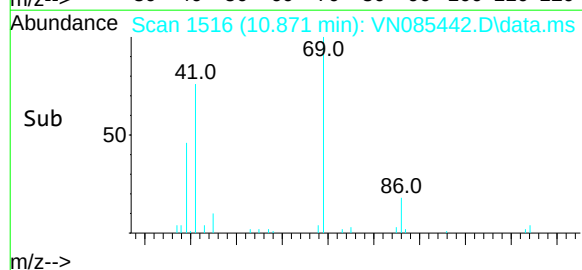
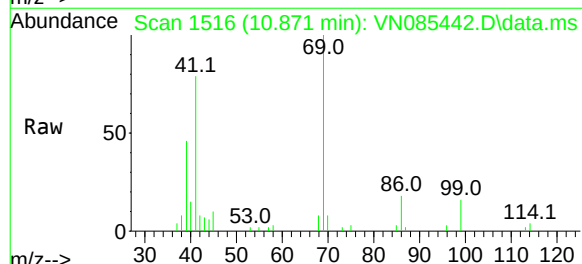
Tgt Ion: 69 Resp: 14094

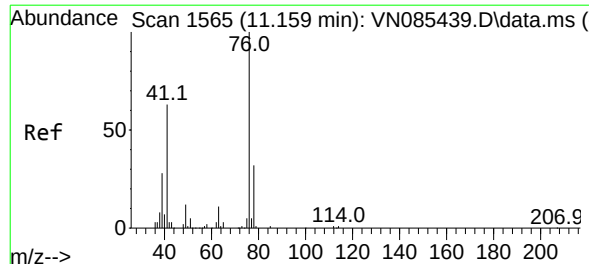
Ion Ratio Lower Upper

69 100

41 73.8 54.6 82.0

39 42.6 32.4 48.6





#57

1,3-Dichloropropane

Concen: 5.006 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 18945

Ion Ratio Lower Upper

76 100

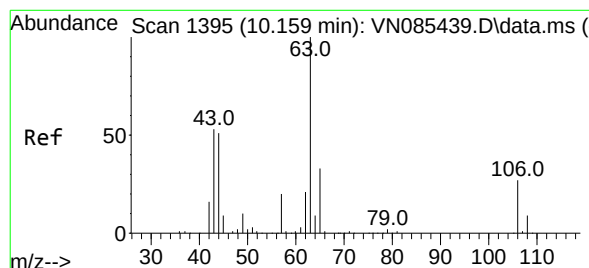
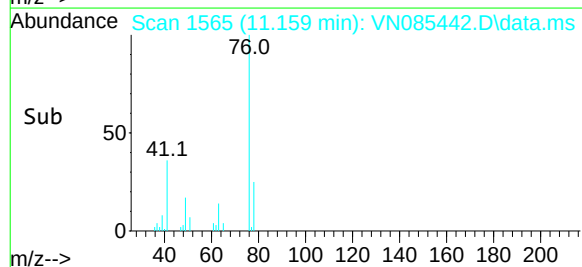
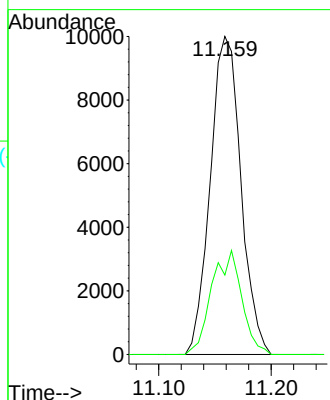
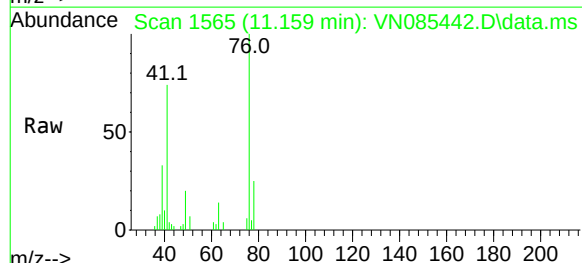
78 32.2 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 24.047 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085442.D

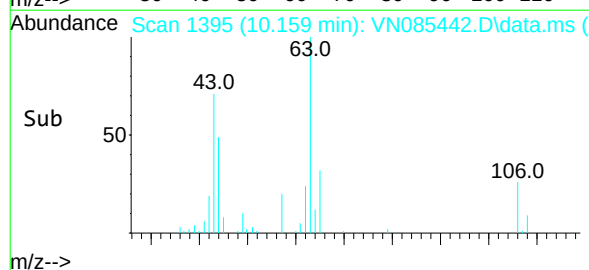
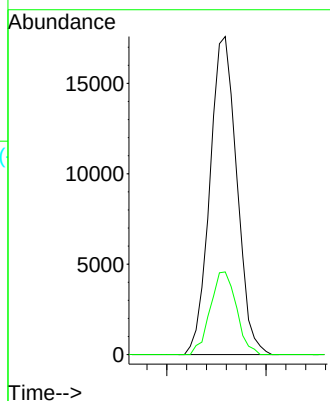
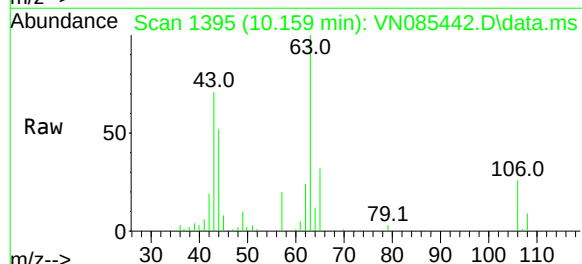
Acq: 14 Jan 2025 16:31

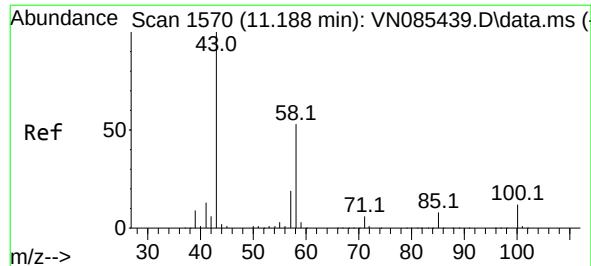
Tgt Ion: 63 Resp: 33210

Ion Ratio Lower Upper

63 100

106 25.2 21.6 32.4





#59

2-Hexanone

Concen: 23.501 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 49021

Ion Ratio Lower Upper

43 100

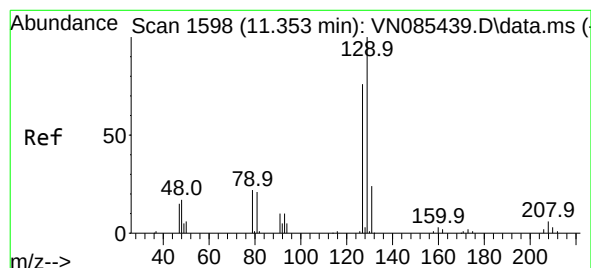
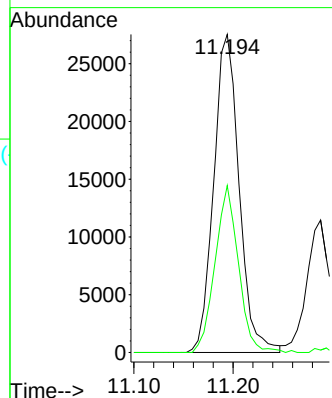
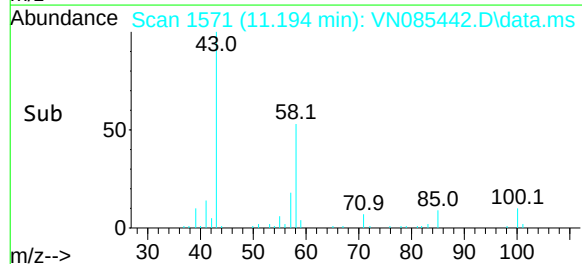
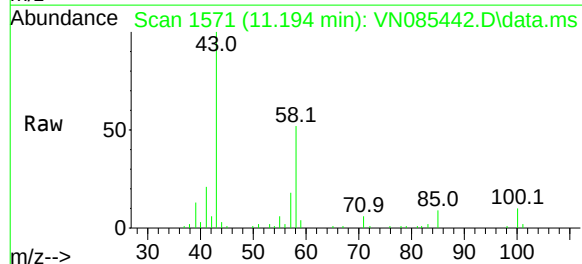
58 48.3 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 5.190 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085442.D

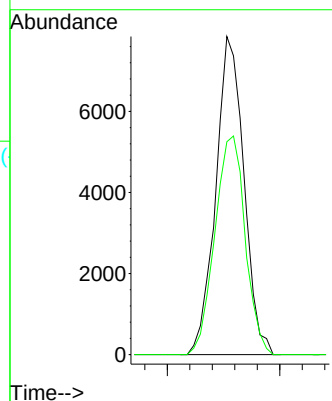
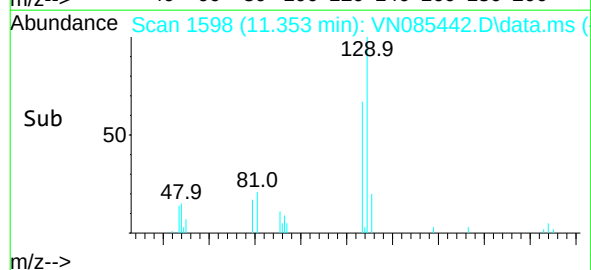
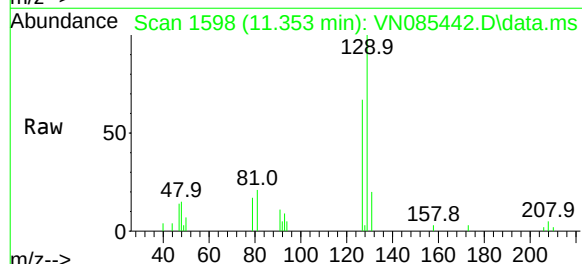
Acq: 14 Jan 2025 16:31

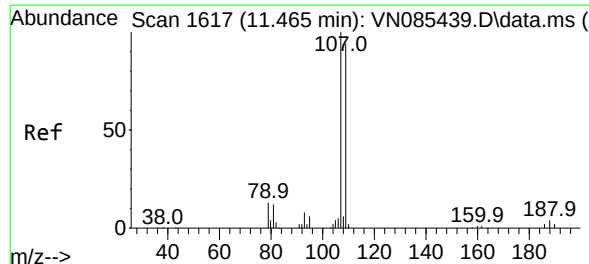
Tgt Ion:129 Resp: 13635

Ion Ratio Lower Upper

129 100

127 73.9 38.6 115.8





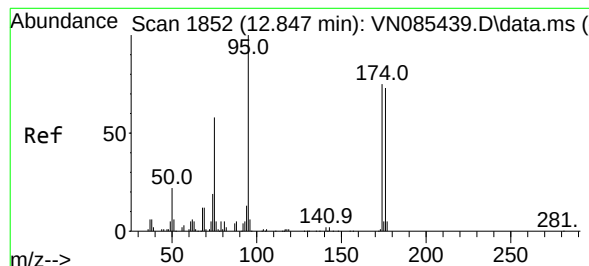
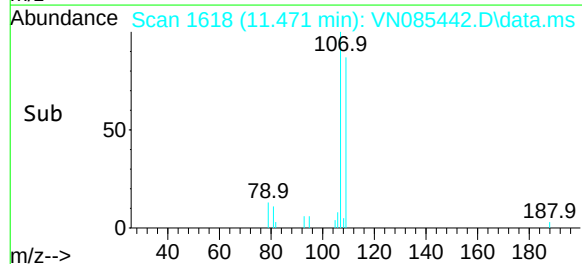
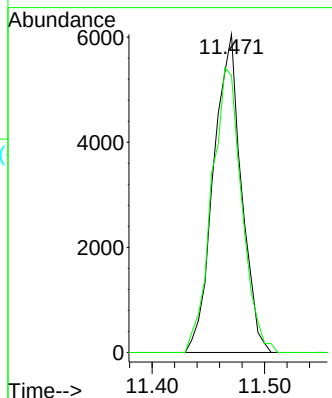
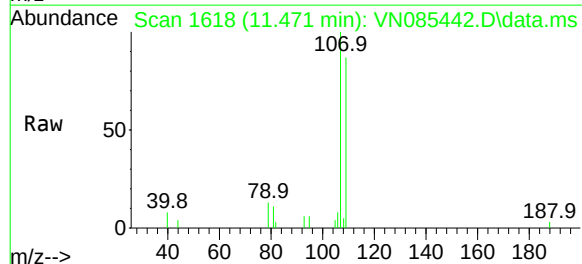
#61
1,2-Dibromoethane
Concen: 4.810 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 107 Resp: 10419
Ion Ratio Lower Upper
107 100
109 96.8 75.9 113.9

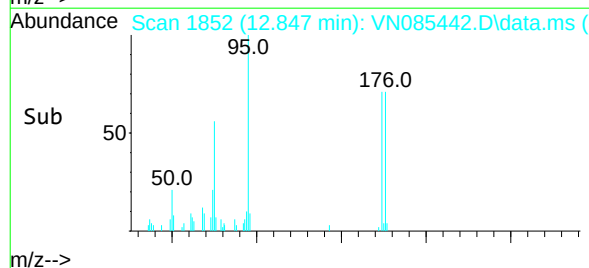
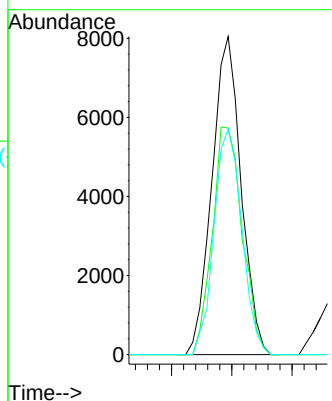
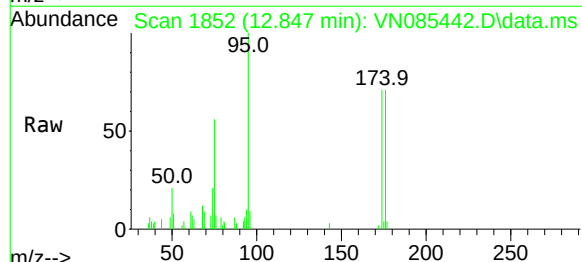
Manual Integrations
APPROVED

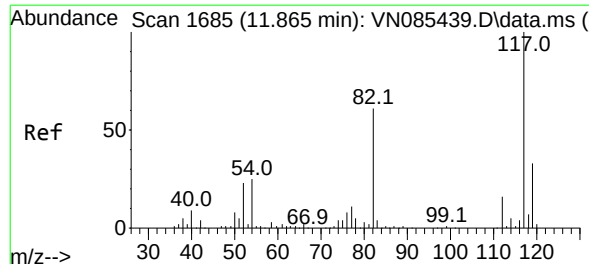
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 4.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 95 Resp: 13520
Ion Ratio Lower Upper
95 100
174 73.2 0.0 145.0
176 68.0 0.0 142.4





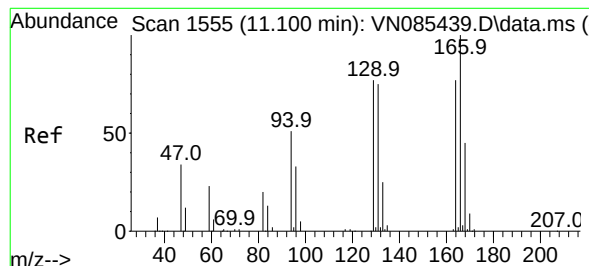
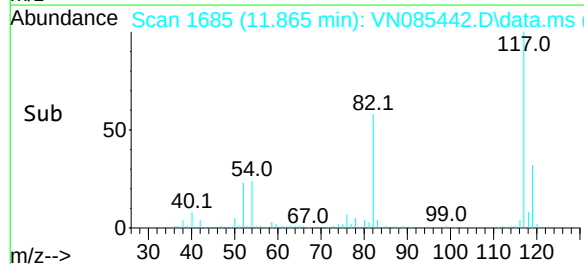
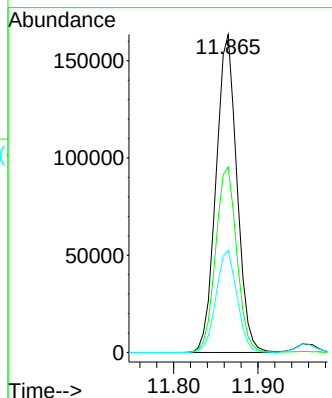
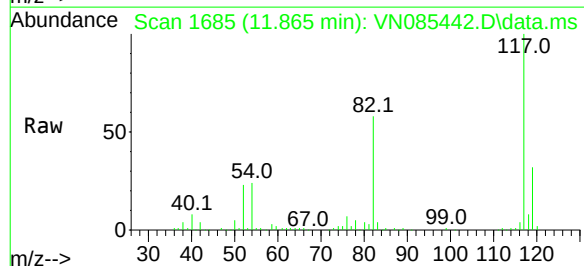
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:117 Resp: 282203
Ion Ratio Lower Upper
117 100
82 58.3 48.6 72.8
119 32.1 26.6 39.8

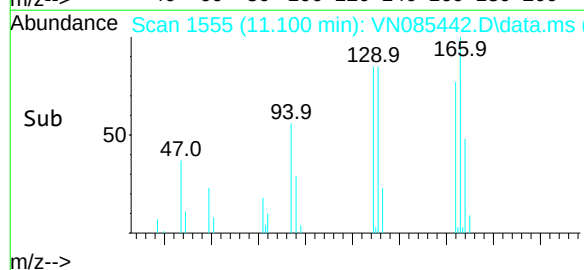
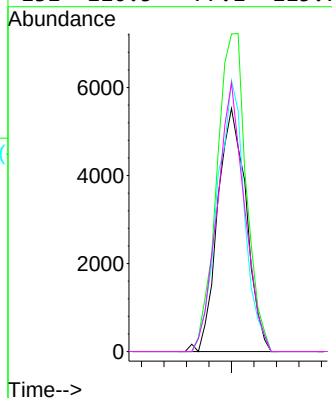
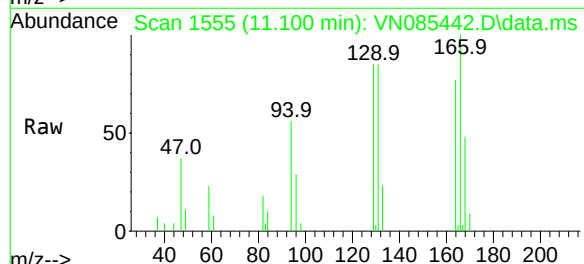
Manual Integrations
APPROVED

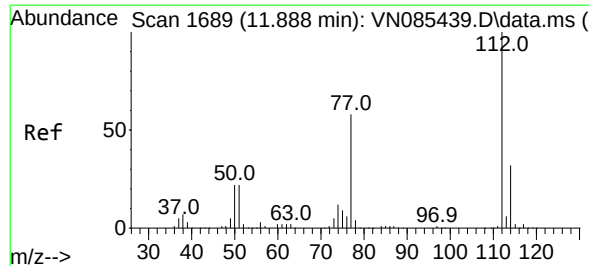
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#64
Tetrachloroethene
Concen: 5.071 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:164 Resp: 9756
Ion Ratio Lower Upper
164 100
166 130.6 103.4 155.2
129 111.5 79.2 118.8
131 110.5 77.1 115.7





#65

Chlorobenzene

Concen: 5.065 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 31312

Ion Ratio Lower Upper

112 100

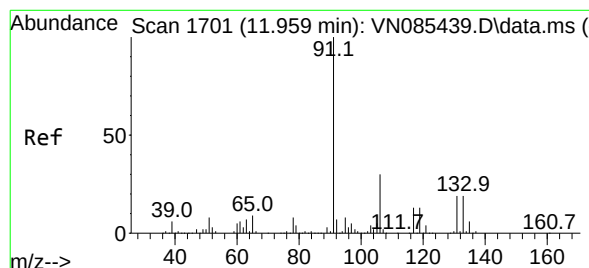
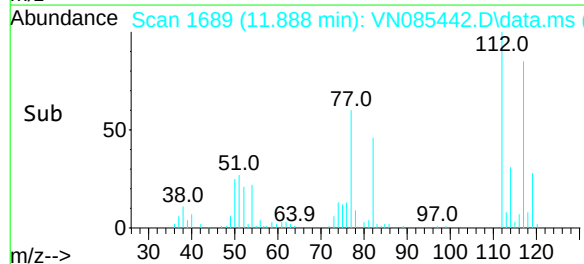
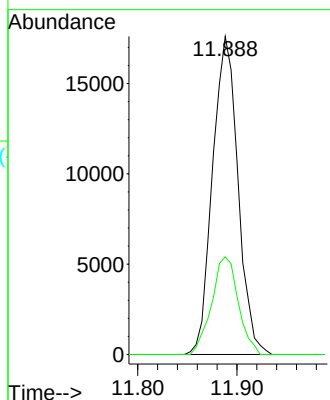
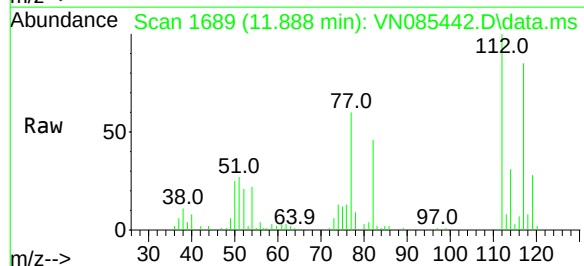
114 30.7 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 5.121 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

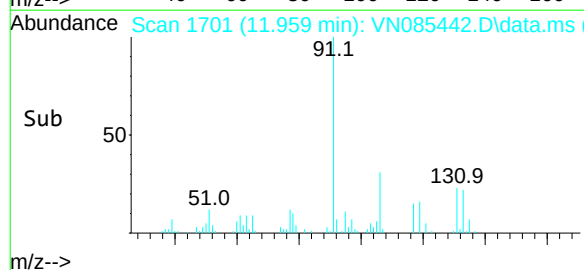
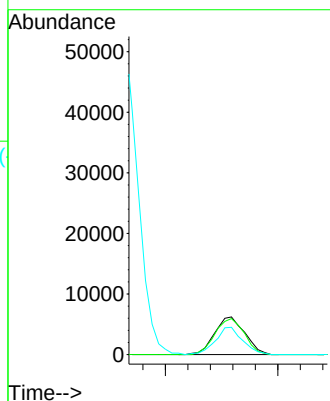
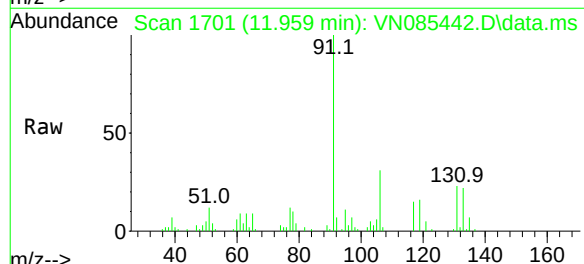
Tgt Ion:131 Resp: 11620

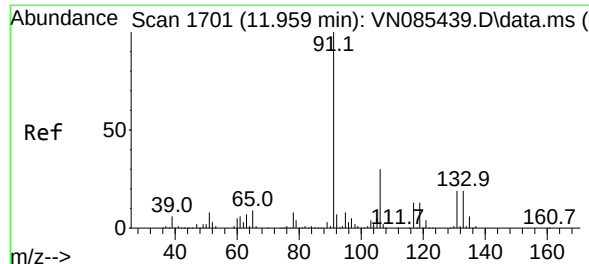
Ion Ratio Lower Upper

131 100

133 92.7 47.4 142.3

119 65.0 33.1 99.5





#67

Ethyl Benzene

Concen: 4.789 ug/l

RT: 11.965 min Scan# 17

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 48216

Ion Ratio Lower Upper

91 100

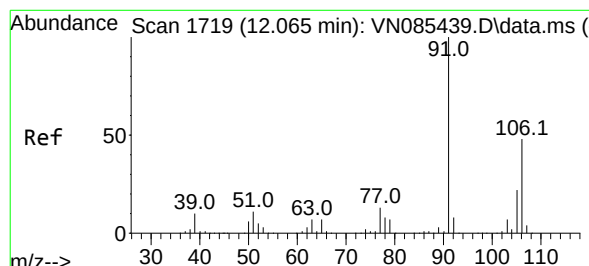
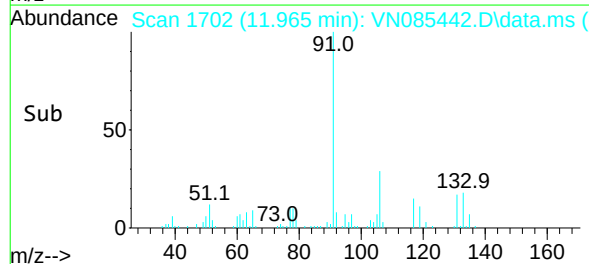
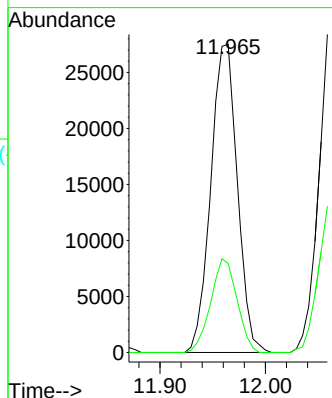
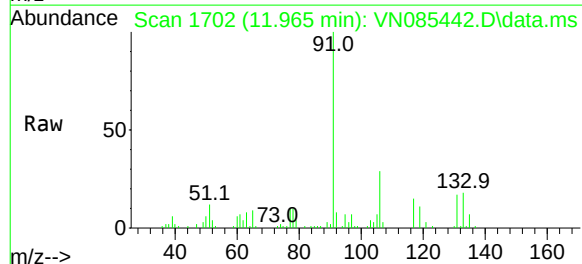
106 28.9 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 9.344 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085442.D

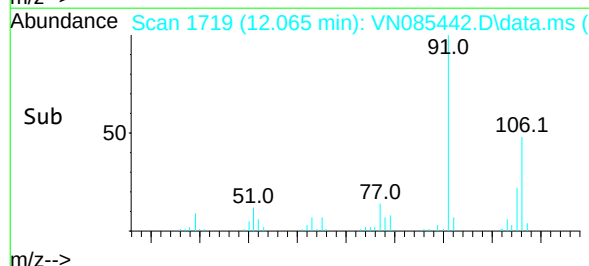
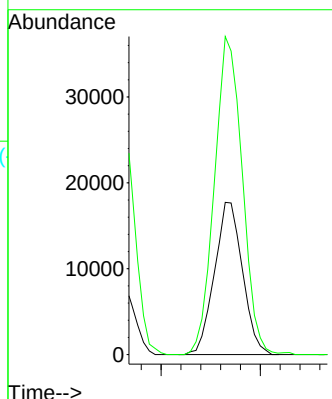
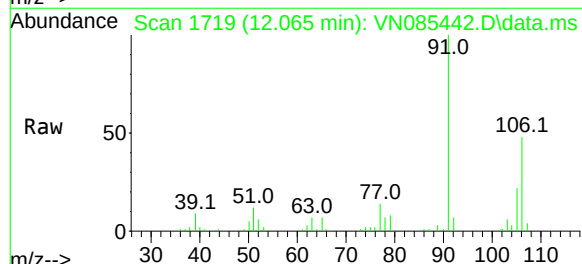
Acq: 14 Jan 2025 16:31

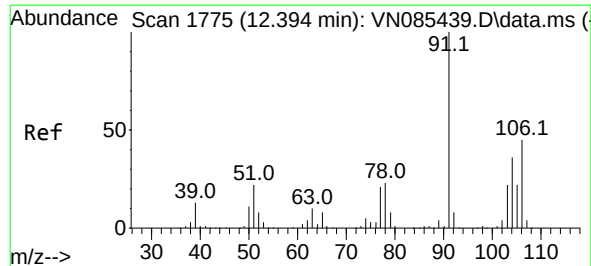
Tgt Ion:106 Resp: 34771

Ion Ratio Lower Upper

106 100

91 207.9 167.7 251.5





#69

o-Xylene

Concen: 4.617 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:106 Resp: 16419

Ion Ratio Lower Upper

106 100

91 224.0 110.4 331.2

Instrument :

MSVOA_N

ClientSampleId :

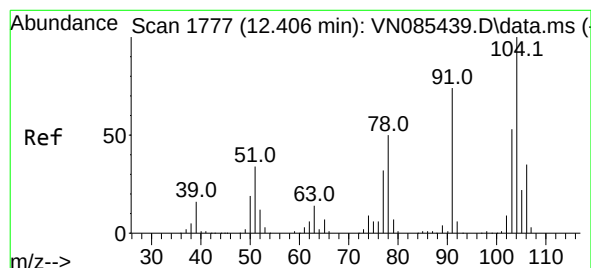
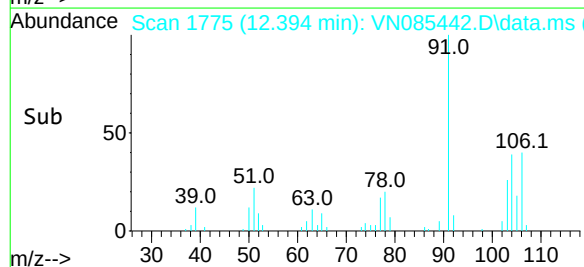
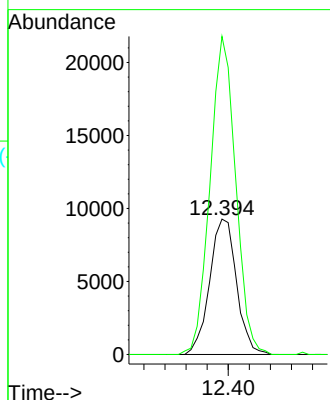
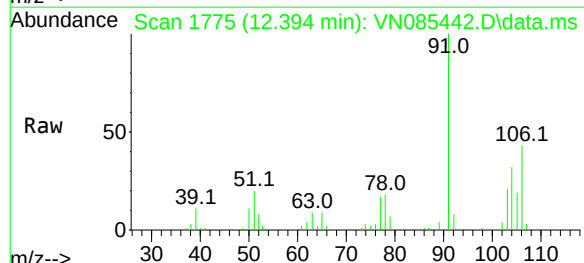
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 4.454 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

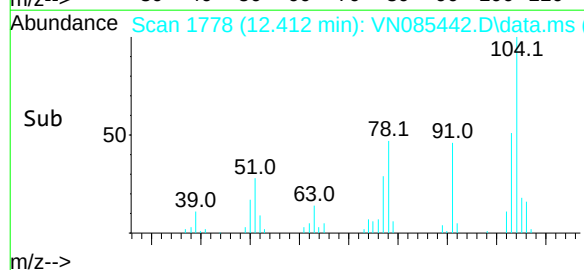
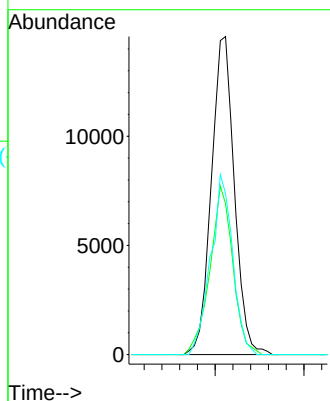
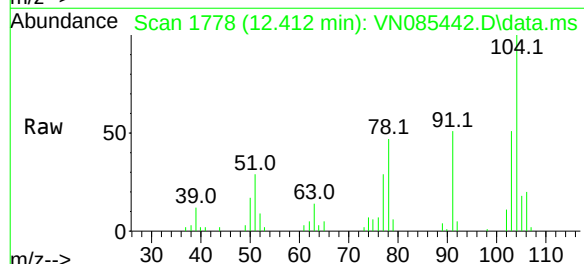
Tgt Ion:104 Resp: 26218

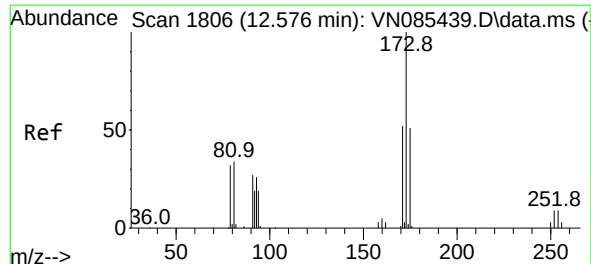
Ion Ratio Lower Upper

104 100

78 52.6 42.5 63.7

103 54.2 43.8 65.8





#71

Bromoform

Concen: 4.938 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

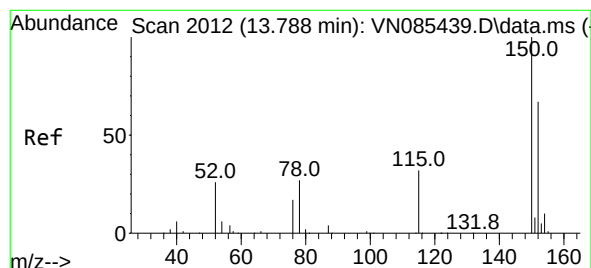
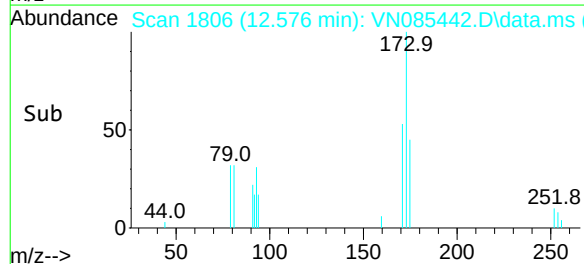
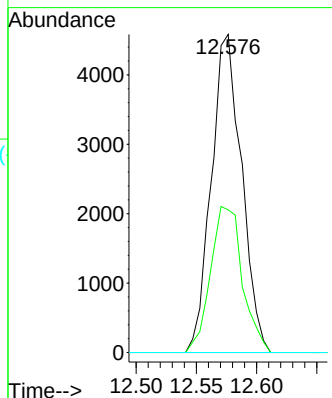
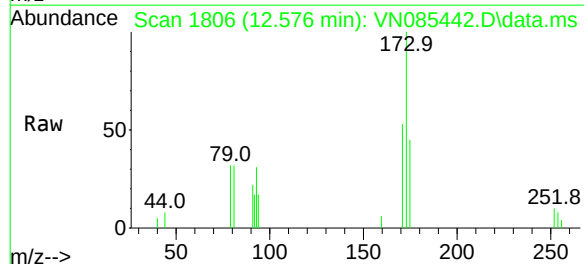
ClientSampleId :

VSTDIC005

Tgt Ion:	173	Resp:	8017
Ion Ratio	Lower	Upper	
173	100		
175	48.3	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

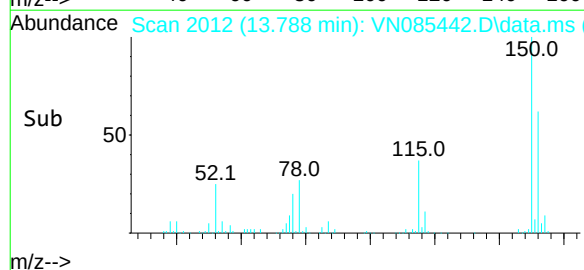
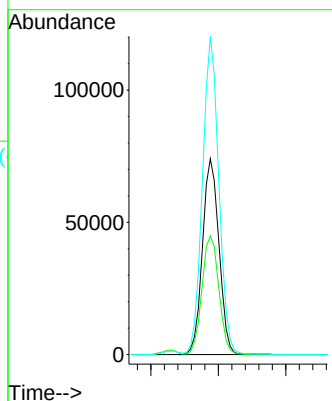
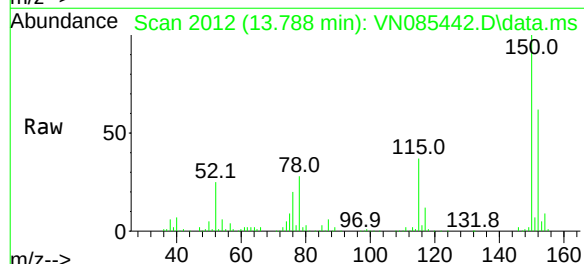
RT: 13.788 min Scan# 2012

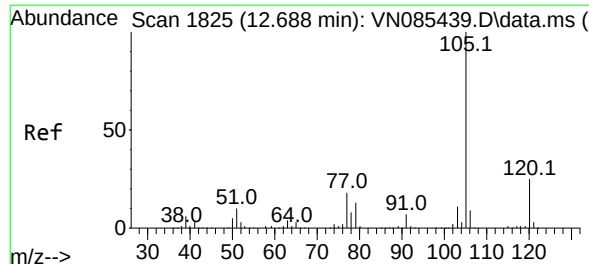
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	152	Resp:	126086
Ion Ratio	Lower	Upper	
152	100		
115	62.0	31.1	93.3
150	160.7	0.0	343.6





#73

Isopropylbenzene

Concen: 4.678 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 105 Resp: 39811

Ion Ratio Lower Upper

105 100

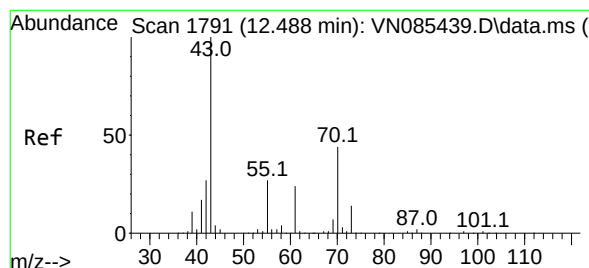
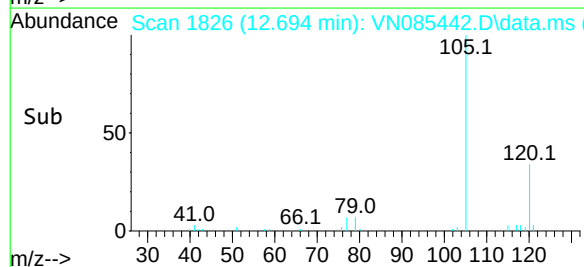
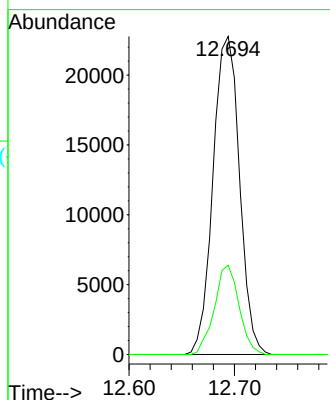
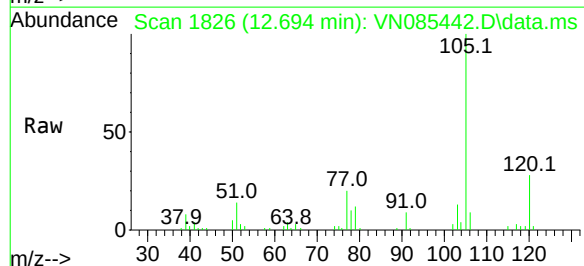
120 26.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 4.595 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 17577

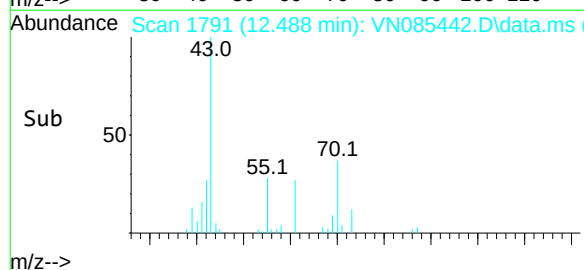
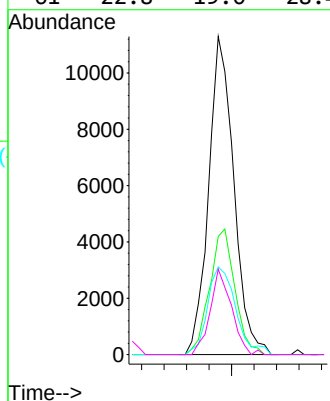
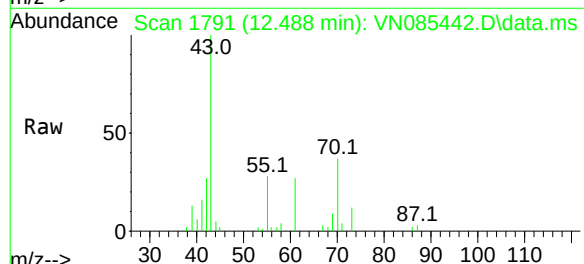
Ion Ratio Lower Upper

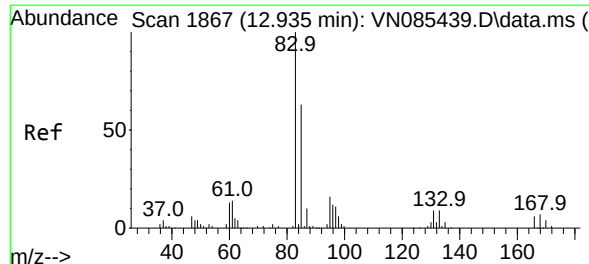
43 100

70 39.5 34.0 51.0

55 30.8 21.4 32.2

61 22.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 5.151 ug/l

RT: 12.935 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

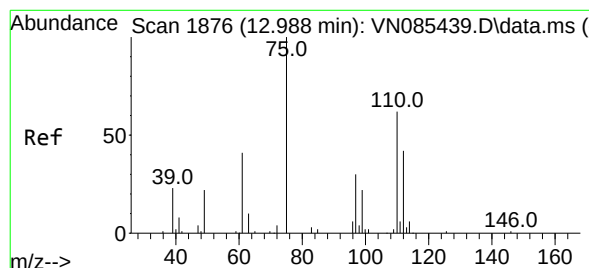
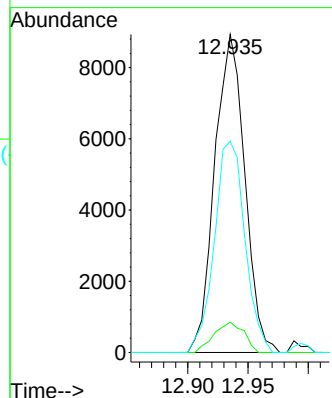
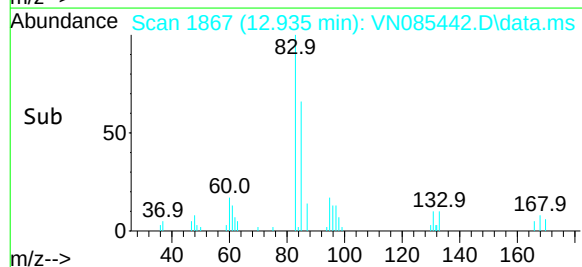
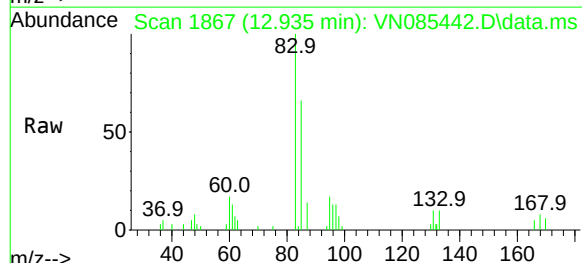
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	15483
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.8	14.4
85	67.5	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 4.758 ug/l m

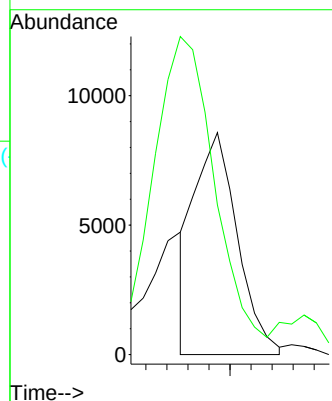
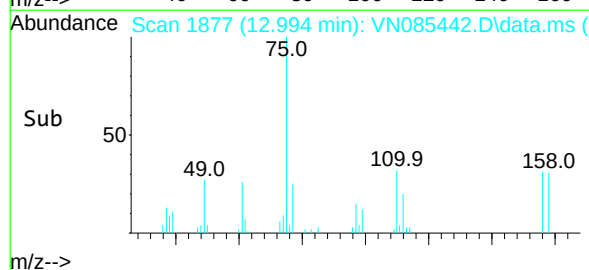
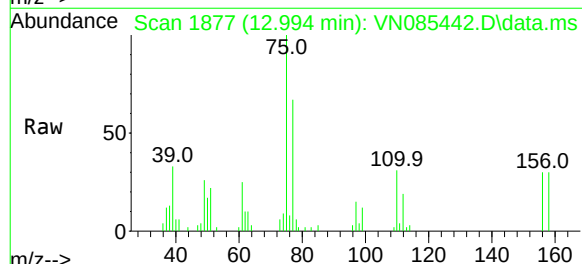
RT: 12.994 min Scan# 1877

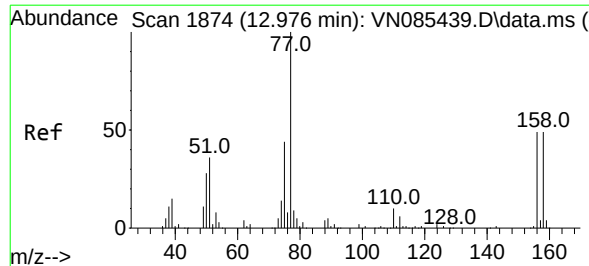
Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	75	Resp:	12173
Ion Ratio	Lower	Upper	
75	100		
77	209.1	109.7	329.2





#77

Bromobenzene

Concen: 4.989 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 156 Resp: 11091

Ion Ratio Lower Upper

156 100

77 229.5 114.1 342.4

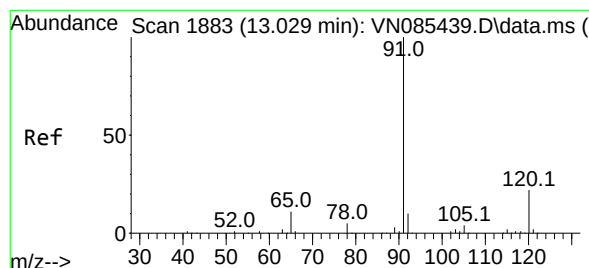
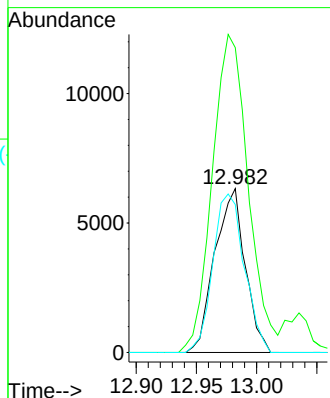
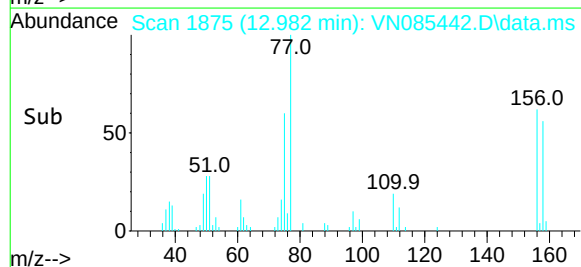
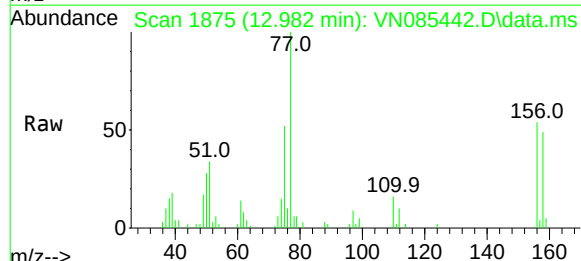
158 100.8 48.9 146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 4.512 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085442.D

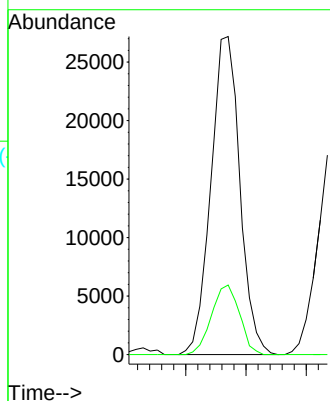
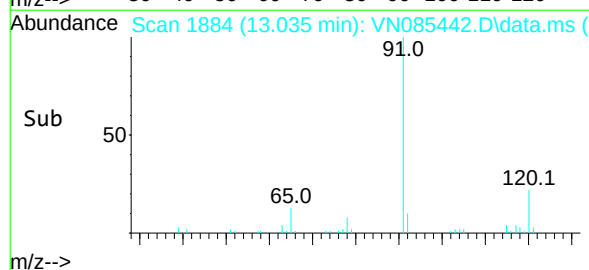
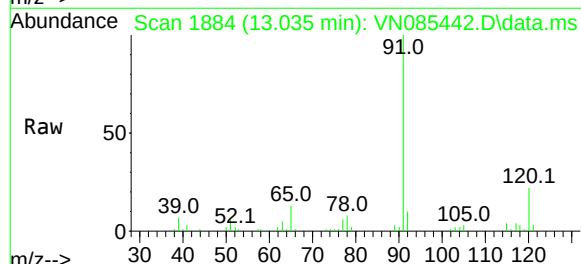
Acq: 14 Jan 2025 16:31

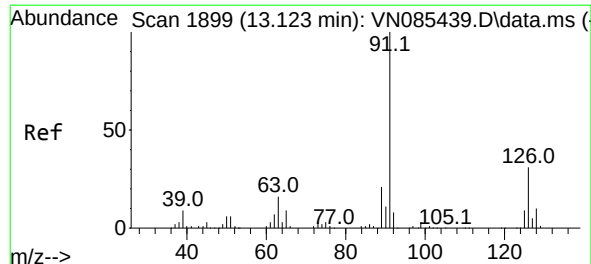
Tgt Ion: 91 Resp: 45450

Ion Ratio Lower Upper

91 100

120 21.1 10.9 32.6





#79

2-Chlorotoluene

Concen: 4.898 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31932

Ion Ratio Lower Upper

91 100

126 32.6 15.7 47.1

Instrument :

MSVOA_N

ClientSampleId :

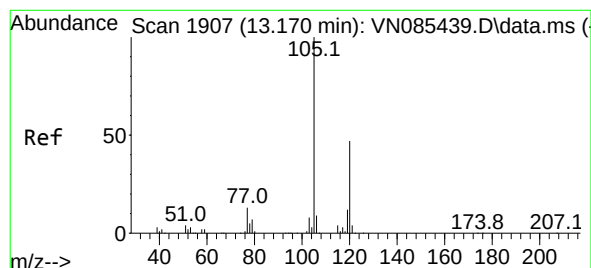
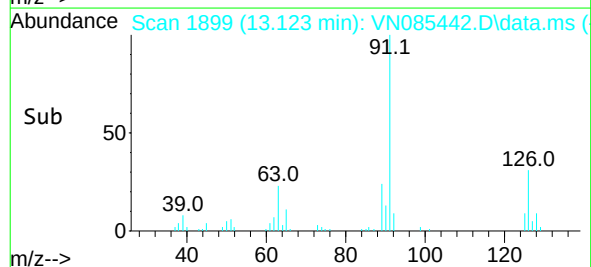
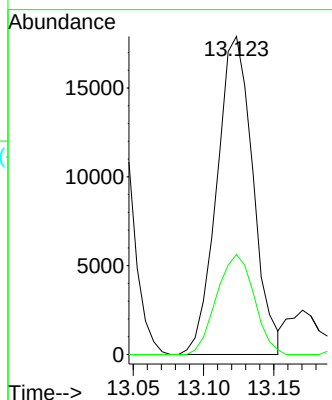
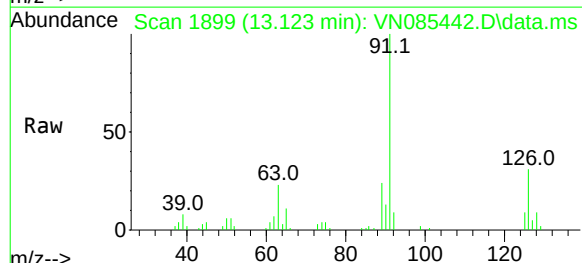
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.537 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085442.D

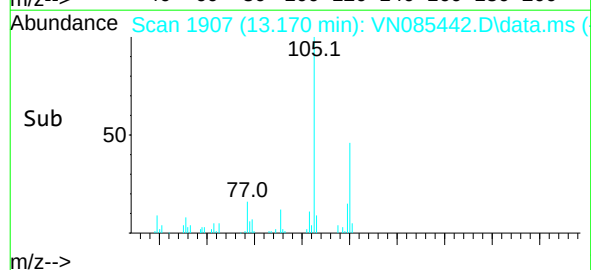
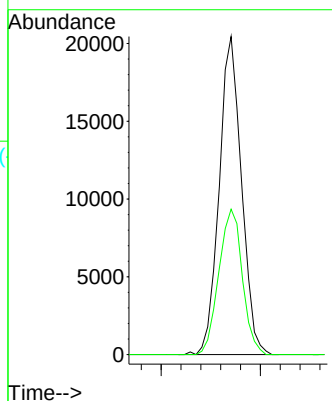
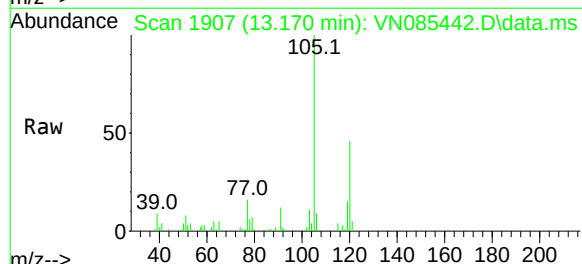
Acq: 14 Jan 2025 16:31

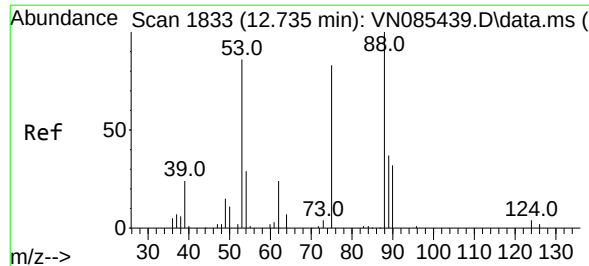
Tgt Ion:105 Resp: 31891

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 4.465 ug/l

RT: 12.729 min Scan# 18

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

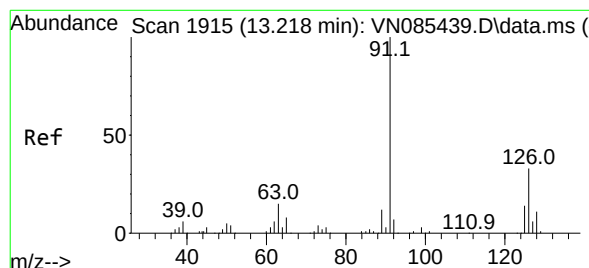
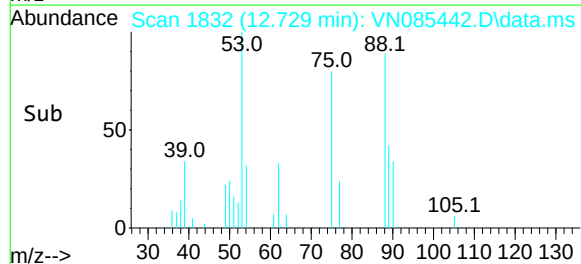
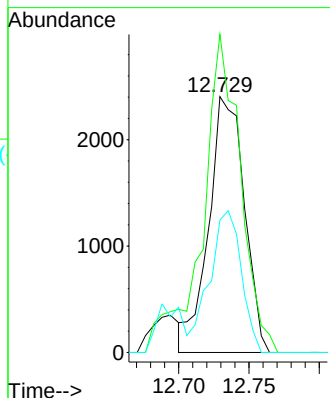
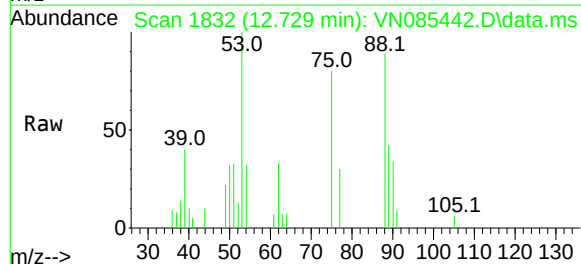
ClientSampleId :

VSTDIC005

Tgt Ion:	75	Resp:	4229
Ion	Ratio	Lower	Upper
75	100		
53	132.6	95.6	143.4
89	49.7	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 4.926 ug/l

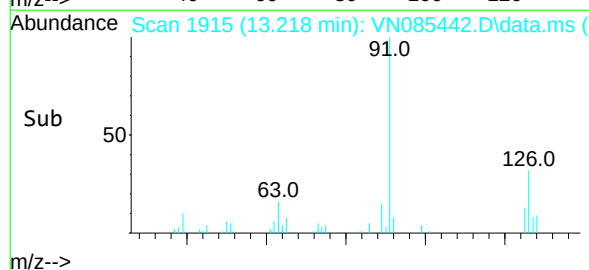
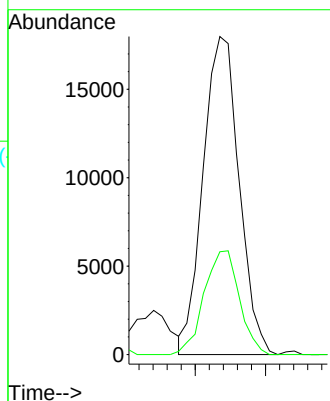
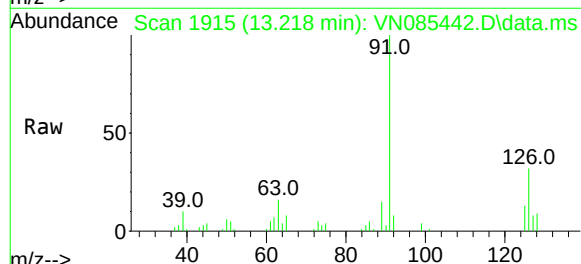
RT: 13.218 min Scan# 1915

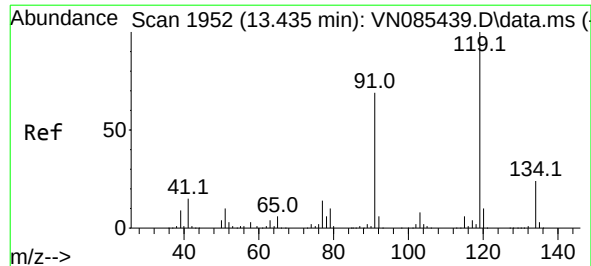
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	91	Resp:	31976
Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.9	47.7





#83

tert-Butylbenzene

Concen: 4.675 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

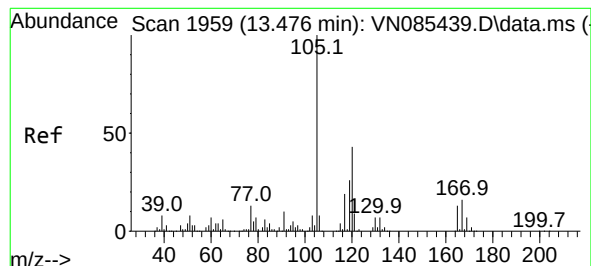
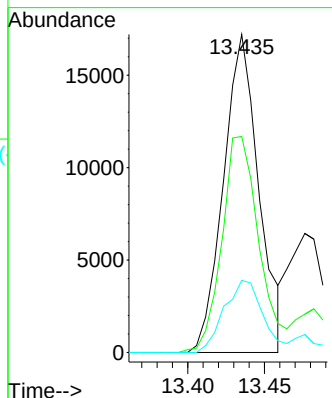
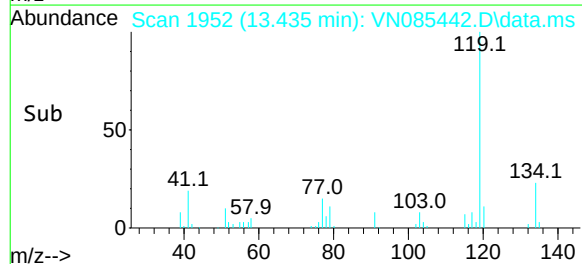
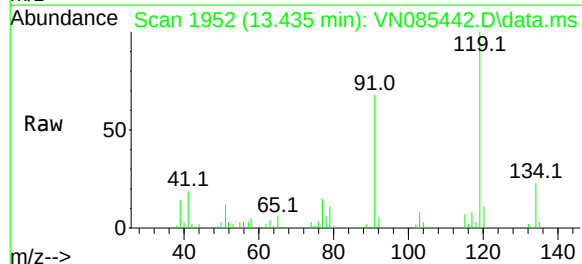
ClientSampleId :

VSTDIC005

Tgt Ion:	119	Resp:	27597
Ion	Ratio	Lower	Upper
119	100		
91	71.1	35.1	105.3
134	24.8	12.0	36.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.575 ug/l

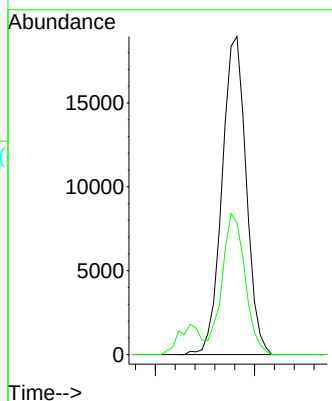
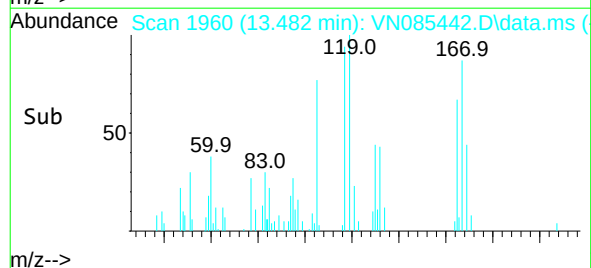
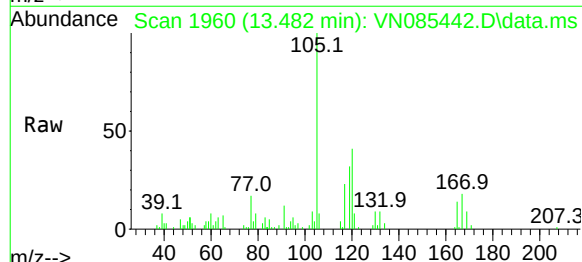
RT: 13.482 min Scan# 1960

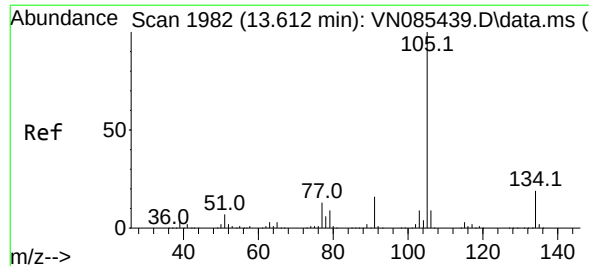
Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	105	Resp:	32054
Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.6	65.0





#85

sec-Butylbenzene

Concen: 4.663 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 38148

Ion Ratio Lower Upper

105 100

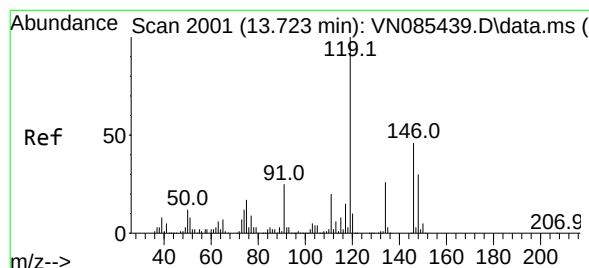
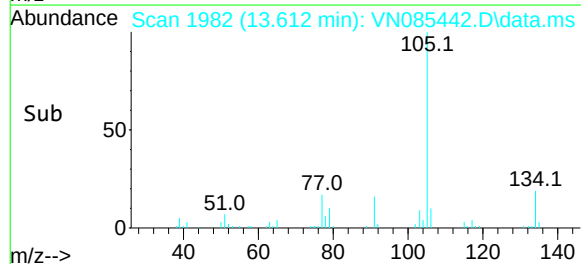
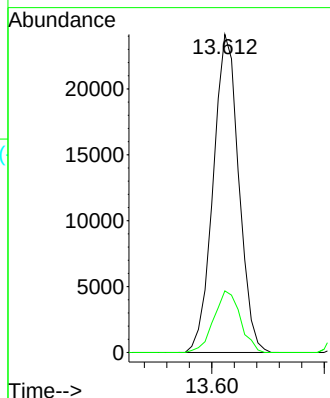
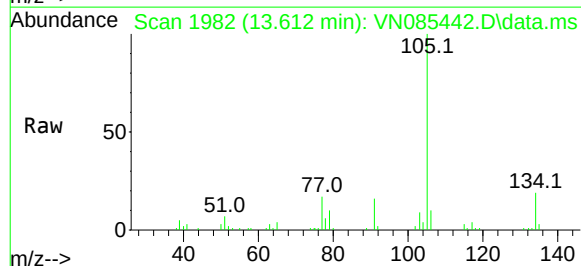
134 20.1 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 4.584 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

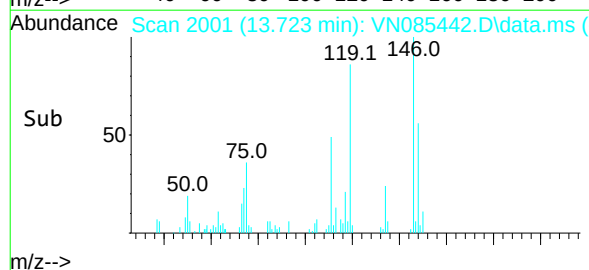
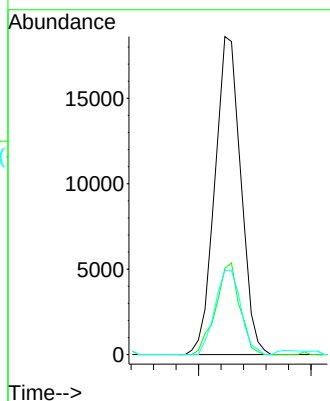
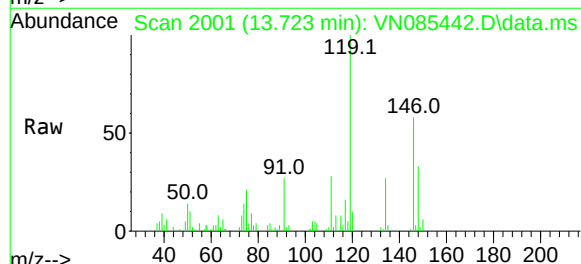
Tgt Ion:119 Resp: 29856

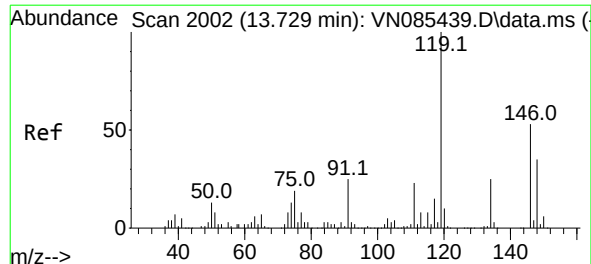
Ion Ratio Lower Upper

119 100

134 26.5 12.7 38.0

91 26.5 12.7 38.1





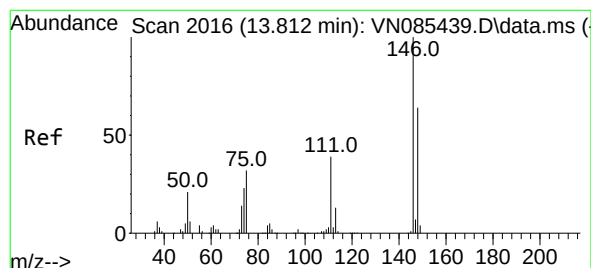
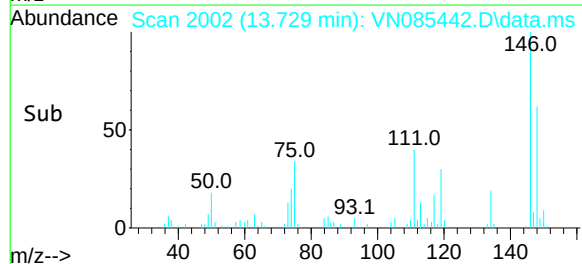
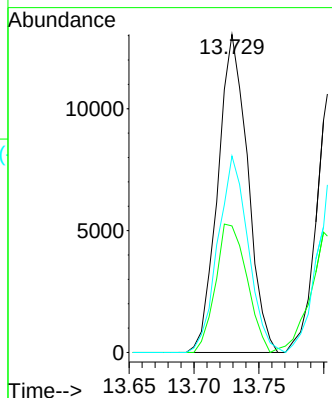
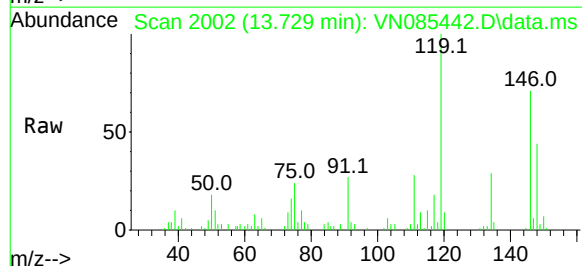
1,3-Dichlorobenzene
Concen: 5.099 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:	146	Resp:	20876
Ion Ratio	Lower	Upper	
146	100		
111	42.3	21.4	64.3
148	62.7	32.3	96.9

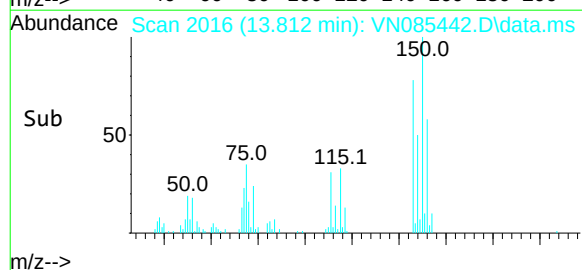
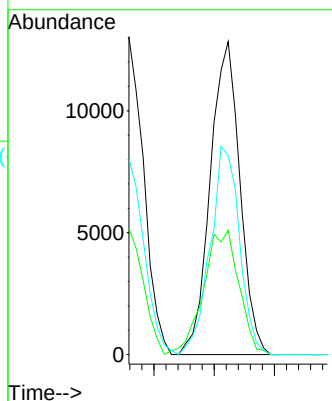
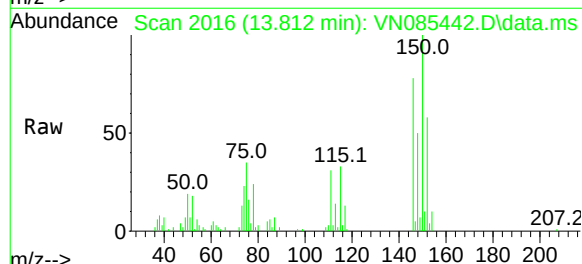
Manual Integrations
APPROVED

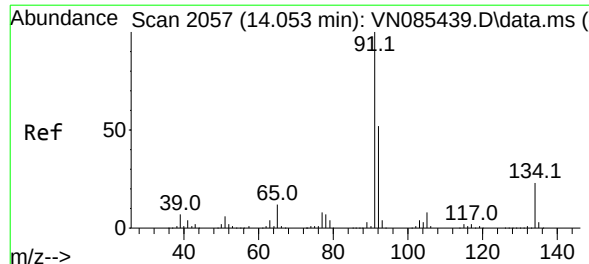
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



1,4-Dichlorobenzene
Concen: 5.179 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:	146	Resp:	21982
Ion Ratio	Lower	Upper	
146	100		
111	47.1	21.3	63.7
148	65.5	32.4	97.0





#89

n-Butylbenzene

Concen: 4.675 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

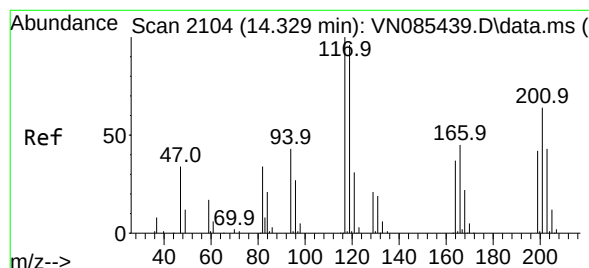
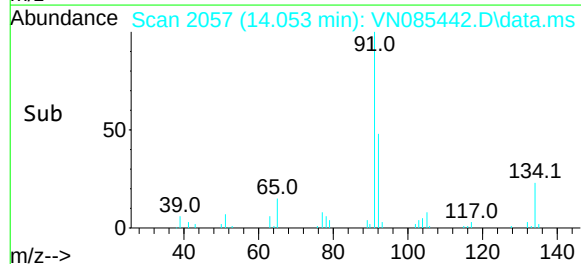
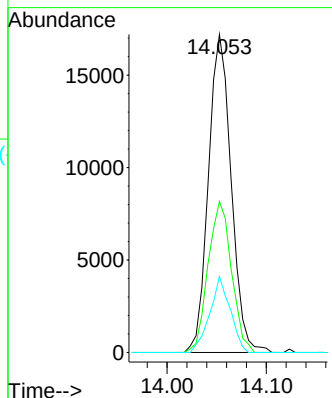
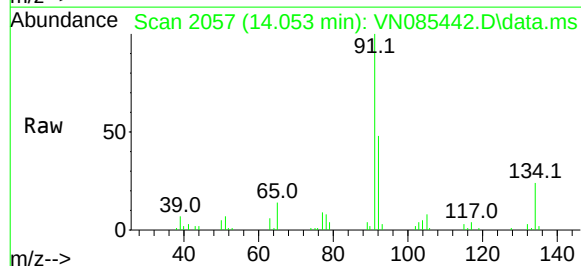
ClientSampleId :

VSTDIC005

Tgt Ion:	91	Resp:	27437
Ion Ratio	Lower	Upper	
91	100		
92	48.7	25.8	77.3
134	21.4	11.7	35.1

Manual Integrations
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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 4.987 ug/l

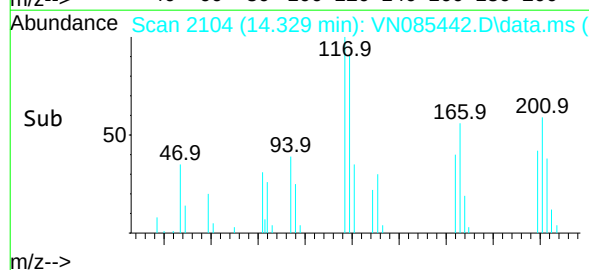
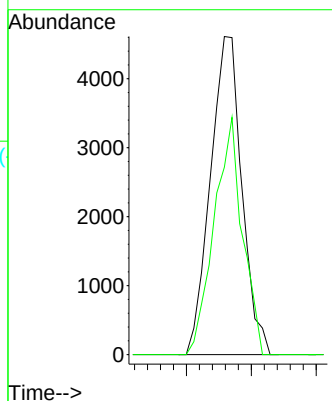
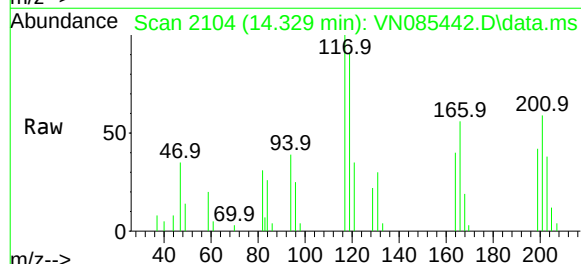
RT: 14.329 min Scan# 2104

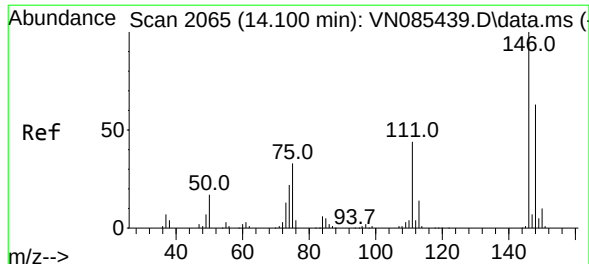
Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	117	Resp:	7767
Ion Ratio	Lower	Upper	
117	100		
201	66.9	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 4.940 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085442.D

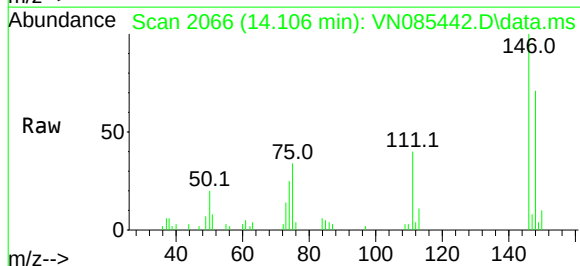
Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

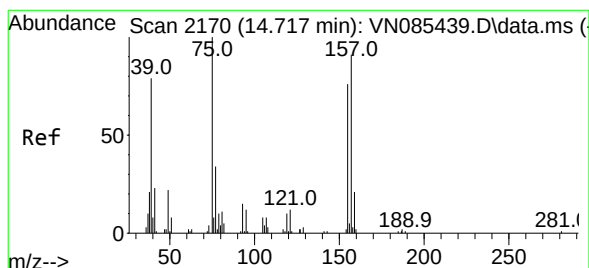
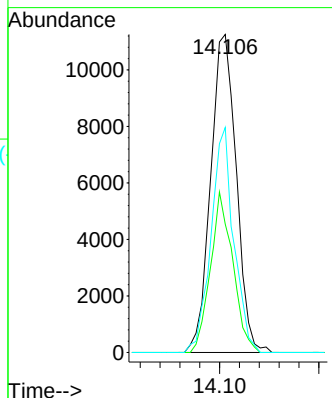
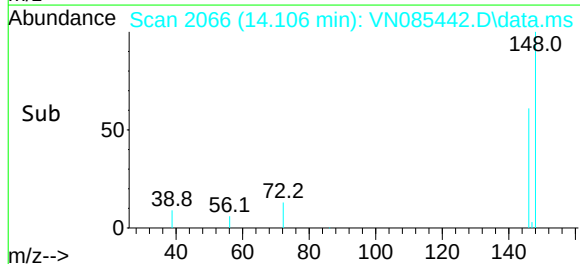
VSTDIC005



Tgt Ion:	146	Resp:	20177
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	62.8	31.4	94.2

Manual Integrations
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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

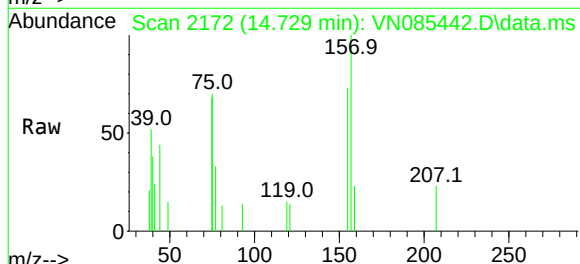
Concen: 5.232 ug/l

RT: 14.729 min Scan# 2172

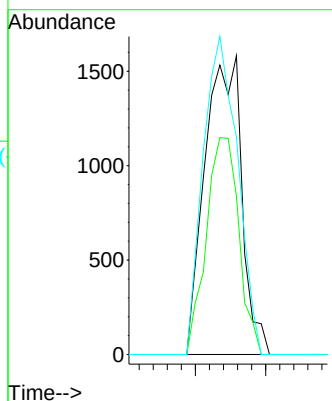
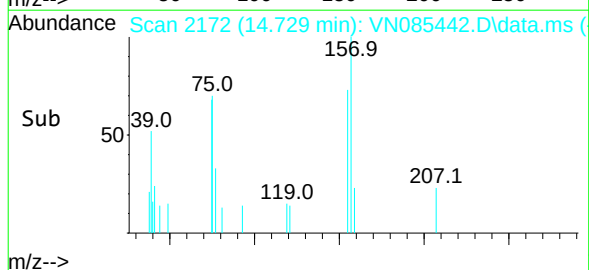
Delta R.T. 0.012 min

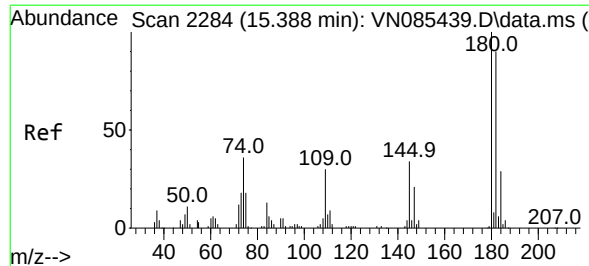
Lab File: VN085442.D

Acq: 14 Jan 2025 16:31



Tgt Ion:	75	Resp:	2872
Ion	Ratio	Lower	Upper
75	100		
155	64.2	36.4	109.2
157	99.8	45.4	136.1





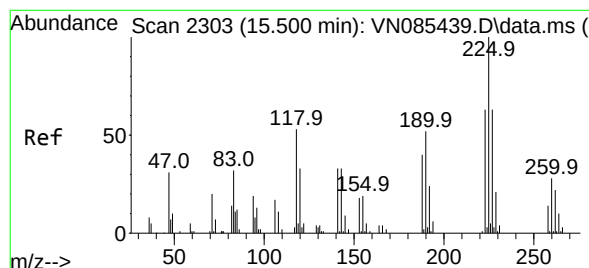
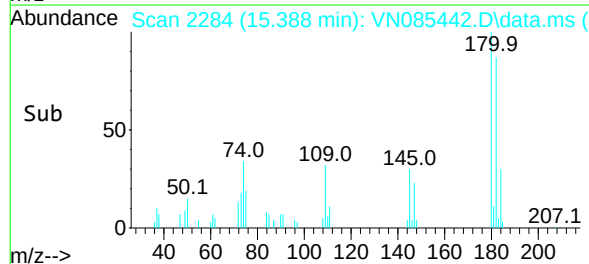
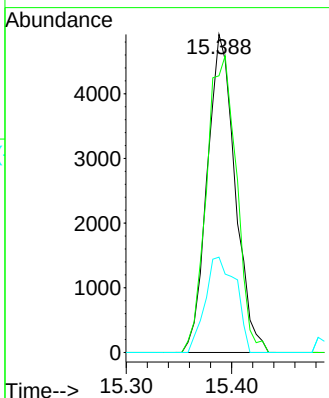
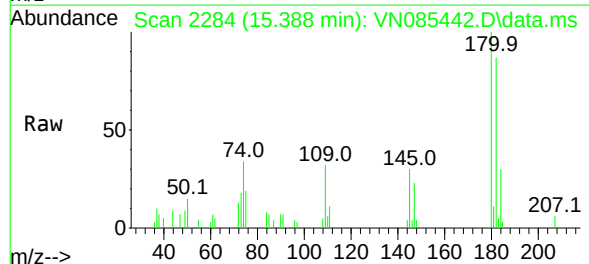
1,2,4-Trichlorobenzene
Concen: 4.761 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	180	Resp:	9037
Ion Ratio	Lower	Upper	
180	100		
182	100.5	46.8	140.3
145	33.0	16.0	48.0

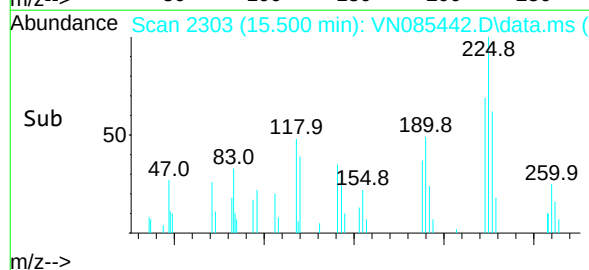
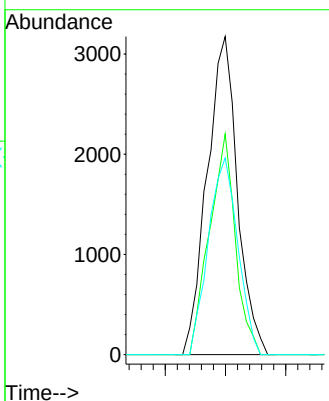
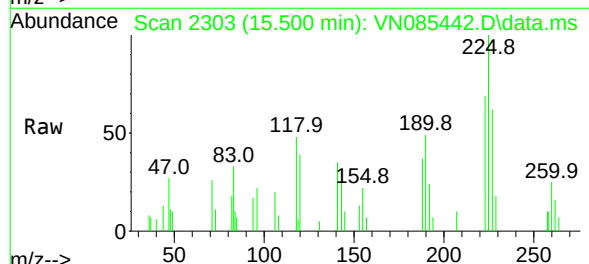
Manual Integrations
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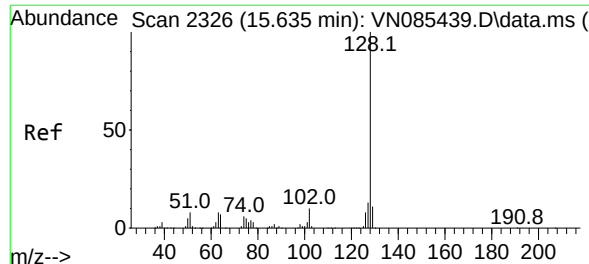
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Hexachlorobutadiene
Concen: 5.520 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:	225	Resp:	5563
Ion Ratio	Lower	Upper	
225	100		
223	59.2	30.7	92.1
227	60.1	30.9	92.5





#95

Naphthalene

Concen: 4.422 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

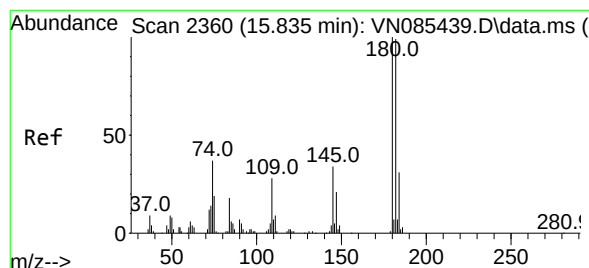
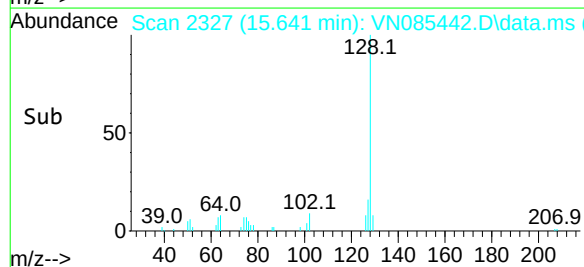
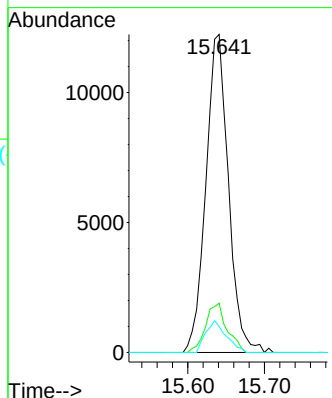
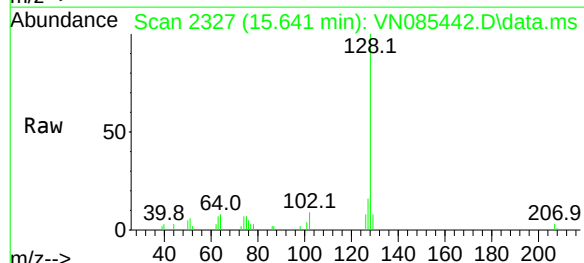
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	25047
Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	16.0
129	9.1	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.549 ug/l

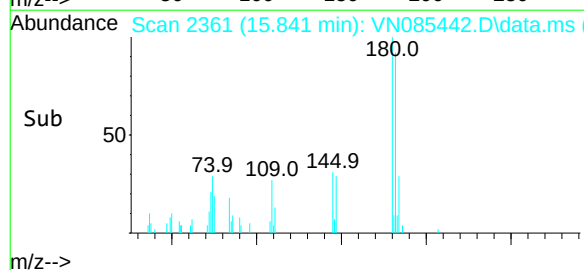
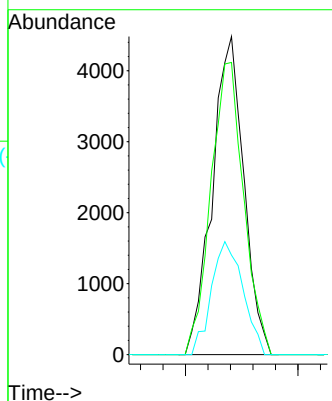
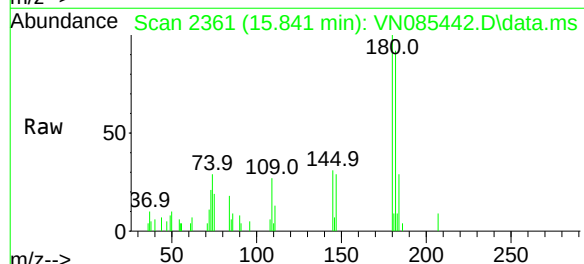
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:	180	Resp:	8737
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	35.5	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085443.D
 Acq On : 14 Jan 2025 17:19
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Quant Time: Jan 15 01:46:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	166880	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	302938	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99539	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	2382	1.054	ug/l	91
3) Chloromethane	2.359	50	2801	1.145	ug/l	93
4) Vinyl Chloride	2.512	62	2732	1.111	ug/l #	81
6) Chloroethane	3.124	64	1809	1.160	ug/l	94
7) Trichlorofluoromethane	3.512	101	3860	1.082	ug/l	88
8) Diethyl Ether	3.953	74	1526	1.238	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.359	101	2156m	1.073	ug/l	
12) 1,1-Dichloroethene	4.330	96	1660	0.927	ug/l #	67
14) Allyl chloride	5.024	41	3179	1.094	ug/l #	85
15) Acrylonitrile	5.718	53	4967	5.070	ug/l #	70
16) Acetone	4.436	43	5102	5.862	ug/l	92
17) Carbon Disulfide	4.706	76	6601	1.197	ug/l #	87
18) Methyl Acetate	5.030	43	2908	1.099	ug/l #	80
19) Methyl tert-butyl Ether	5.789	73	5156	0.887	ug/l #	87
20) Methylene Chloride	5.265	84	2190	1.016	ug/l #	87
21) trans-1,2-Dichloroethene	5.794	96	2110	1.102	ug/l #	66
22) Diisopropyl ether	6.677	45	5691	0.882	ug/l #	88
23) Vinyl Acetate	6.606	43	18526m	4.090	ug/l	
24) 1,1-Dichloroethane	6.583	63	4020m	1.022	ug/l	
25) 2-Butanone	7.483	43	6448m	5.034	ug/l	
26) 2,2-Dichloropropane	7.488	77	3104	0.976	ug/l	92
27) cis-1,2-Dichloroethene	7.477	96	2185	0.969	ug/l	92
28) Bromochloromethane	7.812	49	2082	1.138	ug/l #	89
29) Tetrahydrofuran	7.835	42	3693	4.548	ug/l	98
30) Chloroform	7.965	83	4250	1.045	ug/l #	80
32) 1,1,1-Trichloroethane	8.165	97	3678	1.031	ug/l #	56
36) 1,1-Dichloropropene	8.371	75	3084	1.046	ug/l #	84
37) Ethyl Acetate	7.577	43	3056m	1.026	ug/l	
38) Carbon Tetrachloride	8.359	117	3436	1.018	ug/l	90
39) Methylcyclohexane	9.600	83	2403	0.867	ug/l #	87
40) Benzene	8.606	78	8480	0.957	ug/l	91
41) Methacrylonitrile	7.771	41	1458	0.941	ug/l #	76
42) 1,2-Dichloroethane	8.665	62	3131	0.938	ug/l	91
43) Isopropyl Acetate	8.682	43	4803	1.007	ug/l #	87
44) Trichloroethene	9.347	130	2133	1.034	ug/l	71
45) 1,2-Dichloropropane	9.618	63	2246	0.992	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085443.D
 Acq On : 14 Jan 2025 17:19
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:46:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	1769	1.083	ug/l	92
47) Bromodichloromethane	9.882	83	2935	0.882	ug/l	90
48) Methyl methacrylate	9.677	41	1886	0.878	ug/l	96
49) 1,4-Dioxane	9.688	88	673	18.616	ug/l #	47
51) 4-Methyl-2-Pentanone	10.441	43	11523	4.163	ug/l	93
52) Toluene	10.618	92	4180	0.814	ug/l	93
53) t-1,3-Dichloropropene	10.835	75	2522	0.802	ug/l	92
54) cis-1,3-Dichloropropene	10.312	75	2725	0.811	ug/l #	83
55) 1,1,2-Trichloroethane	11.018	97	1901	0.935	ug/l	91
56) Ethyl methacrylate	10.871	69	1923	2.471	ug/l #	88
57) 1,3-Dichloropropane	11.165	76	3113	0.881	ug/l	95
58) 2-Chloroethyl Vinyl ether	10.153	63	4929	3.822	ug/l	91
59) 2-Hexanone	11.194	43	7905	4.058	ug/l	87
60) Dibromochloromethane	11.359	129	2339	0.953	ug/l	98
61) 1,2-Dibromoethane	11.465	107	2022	1.000	ug/l	90
64) Tetrachloroethene	11.106	164	1658	0.947	ug/l #	83
65) Chlorobenzene	11.888	112	5401	0.960	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	2185	1.058	ug/l #	64
67) Ethyl Benzene	11.959	91	7347	0.802	ug/l	94
68) m/p-Xylenes	12.070	106	5059	1.494	ug/l	100
69) o-Xylene	12.394	106	2478	0.766	ug/l	97
70) Styrene	12.406	104	3812	0.712	ug/l	99
71) Bromoform	12.582	173	1208	0.818	ug/l #	88
73) Isopropylbenzene	12.688	105	5506	0.820	ug/l	98
74) N-amyl acetate	12.494	43	2716	0.899	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.935	83	2616	1.102	ug/l #	96
76) 1,2,3-Trichloropropane	12.982	75	2198m	1.088	ug/l	
77) Bromobenzene	12.976	156	1733	0.987	ug/l	97
78) n-propylbenzene	13.029	91	6424	0.808	ug/l	93
79) 2-Chlorotoluene	13.117	91	4483	0.871	ug/l	97
80) 1,3,5-Trimethylbenzene	13.165	105	4301	0.775	ug/l	90
82) 4-Chlorotoluene	13.223	91	4268	0.833	ug/l	99
83) tert-Butylbenzene	13.435	119	3753	0.805	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	3758	0.679	ug/l	93
85) sec-Butylbenzene	13.612	105	4614	0.714	ug/l	99
86) p-Isopropyltoluene	13.723	119	3538	0.716	ug/l	98
87) 1,3-Dichlorobenzene	13.723	146	3038	0.940	ug/l	95
88) 1,4-Dichlorobenzene	13.806	146	3517m	1.050	ug/l	
89) n-Butylbenzene	14.053	91	3527	0.761	ug/l	93
90) Hexachloroethane	14.341	117	1355	1.102	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	3515	1.090	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	402	0.928	ug/l	74
93) 1,2,4-Trichlorobenzene	15.394	180	1310	0.874	ug/l #	80
94) Hexachlorobutadiene	15.500	225	822	1.033	ug/l	89
95) Naphthalene	15.641	128	4210	0.941	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.835	180	1494	0.985	ug/l #	86

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

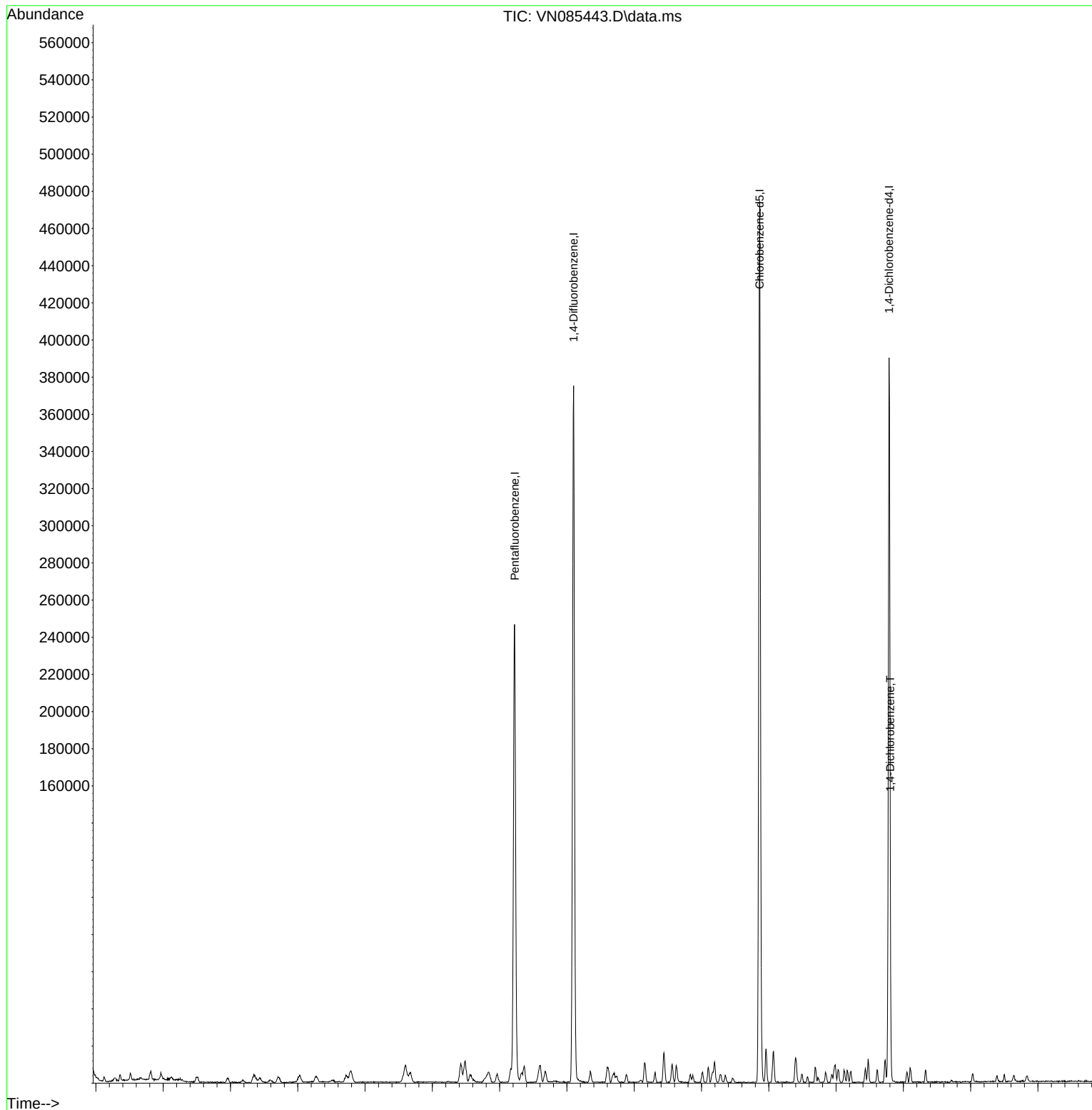
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Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

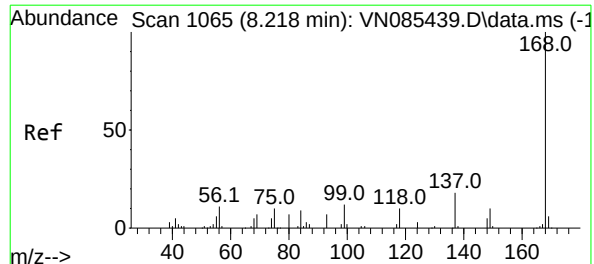
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration





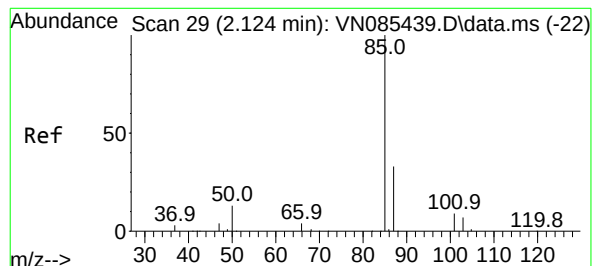
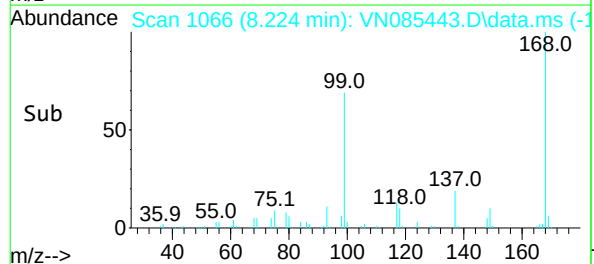
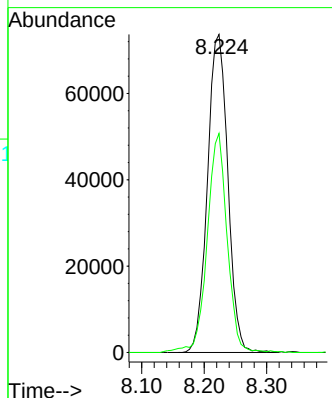
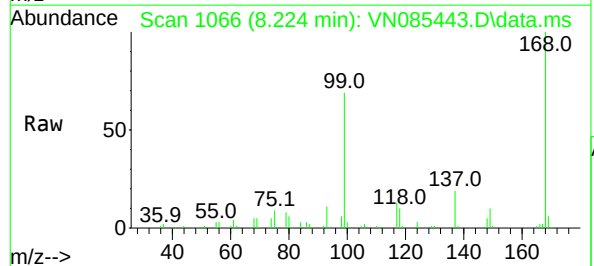
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 168 Resp: 166880
Ion Ratio Lower Upper
168 100
99 68.6 53.6 80.4

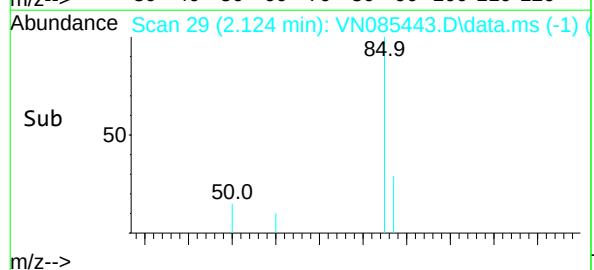
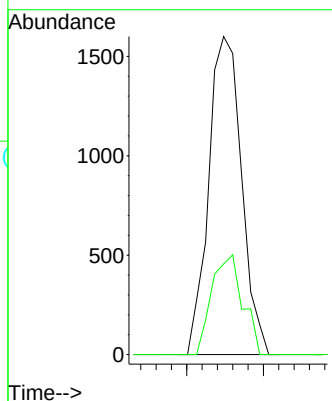
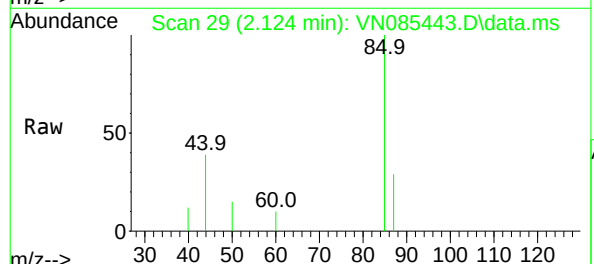
Manual Integrations
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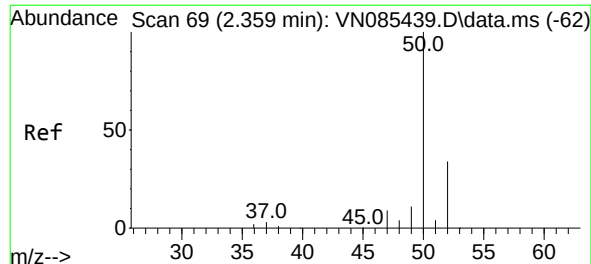
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 1.054 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 85 Resp: 2382
Ion Ratio Lower Upper
85 100
87 28.5 16.7 50.1





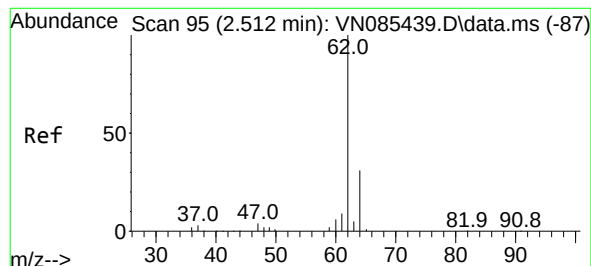
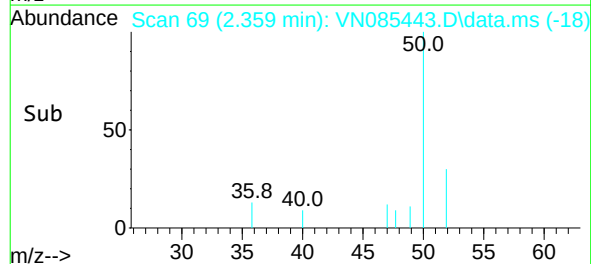
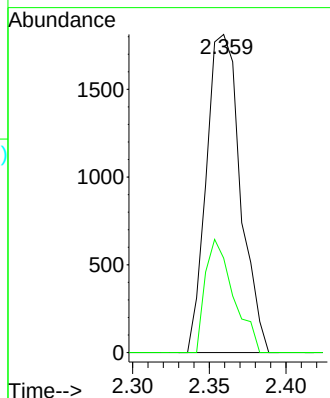
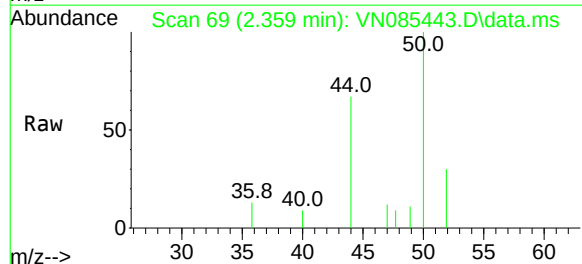
#3
Chloromethane
Concen: 1.145 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 2801
Ion Ratio Lower Upper
50 100
52 29.7 27.0 40.6

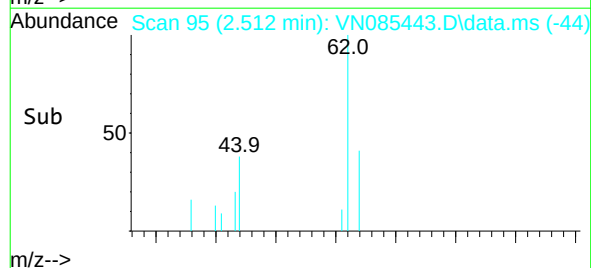
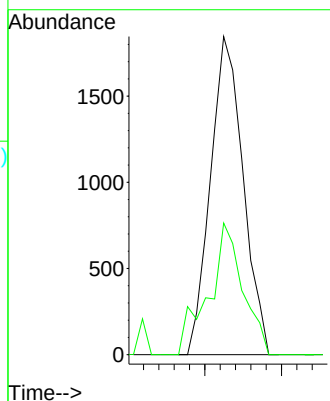
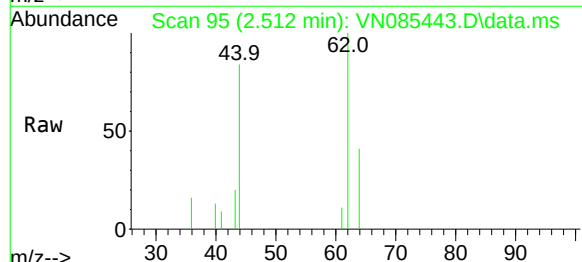
Manual Integrations
APPROVED

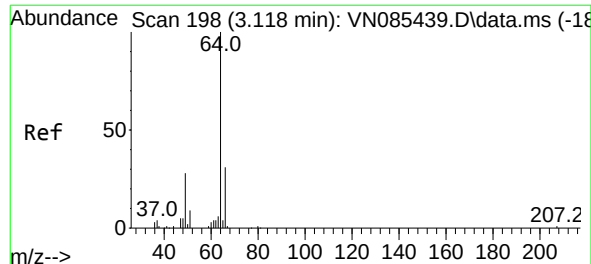
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#4
Vinyl Chloride
Concen: 1.111 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 2732
Ion Ratio Lower Upper
62 100
64 41.4 24.8 37.2#





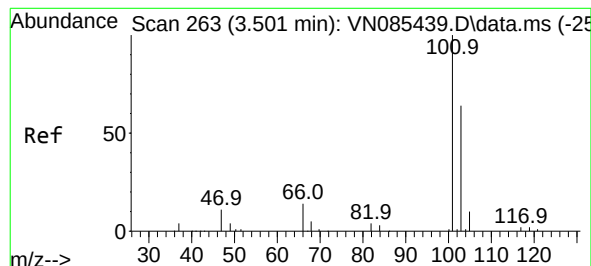
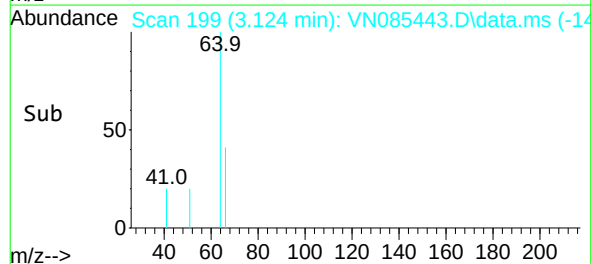
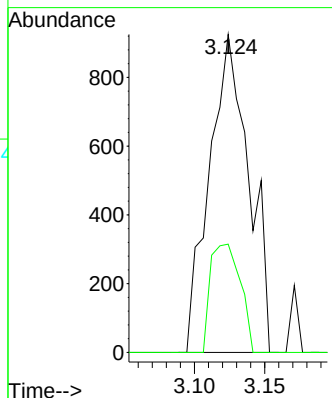
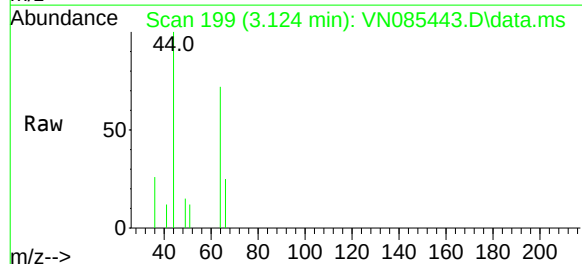
#6
Chloroethane
Concen: 1.160 ug/l
RT: 3.124 min Scan# 198
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 1809
Ion Ratio Lower Upper
64 100
66 34.1 24.6 36.8

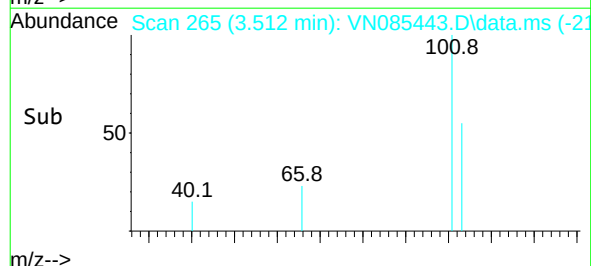
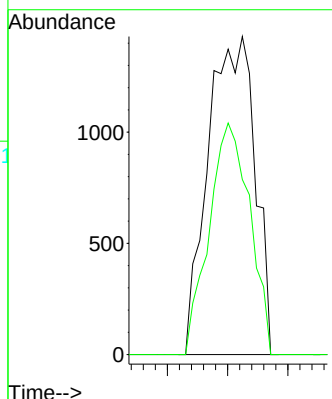
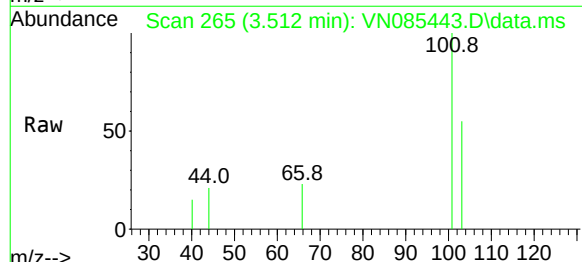
Manual Integrations
APPROVED

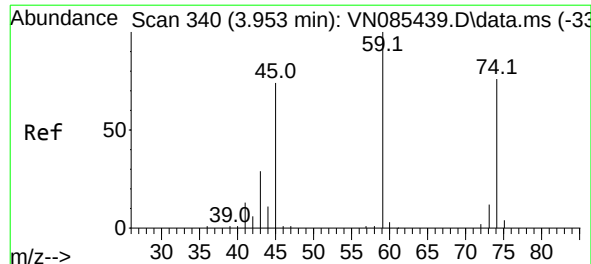
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 3.512 min Scan# 265
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 3860
Ion Ratio Lower Upper
101 100
103 55.0 51.4 77.2





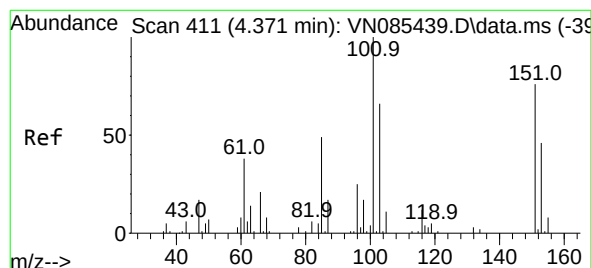
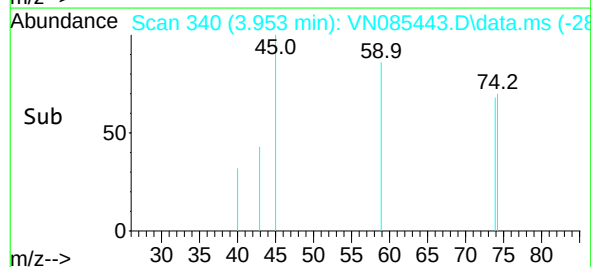
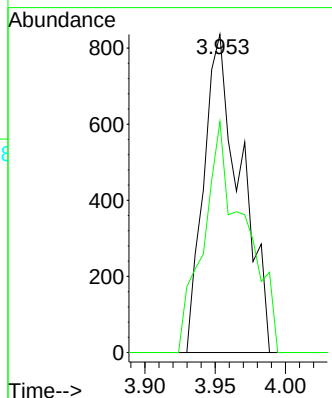
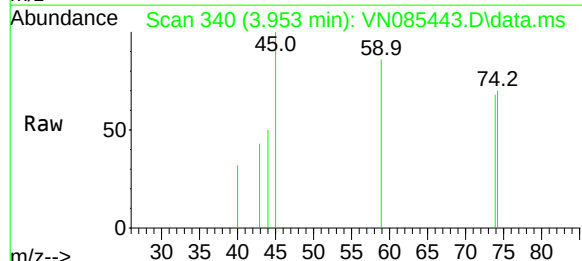
#8
Diethyl Ether
Concen: 1.238 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 74 Resp: 1526
Ion Ratio Lower Upper
74 100
45 80.9 49.7 149.1

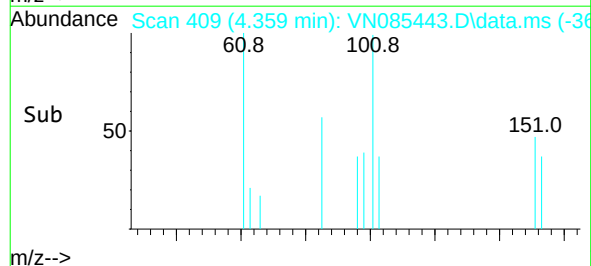
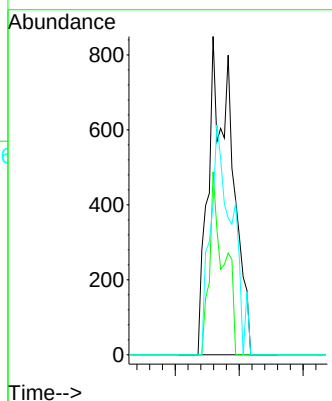
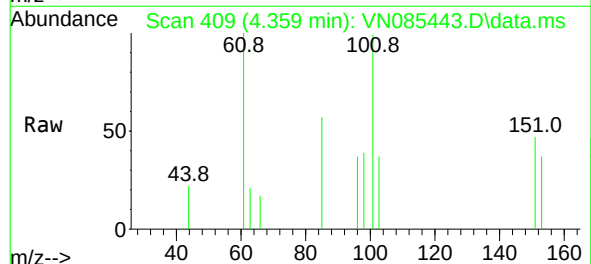
Manual Integrations
APPROVED

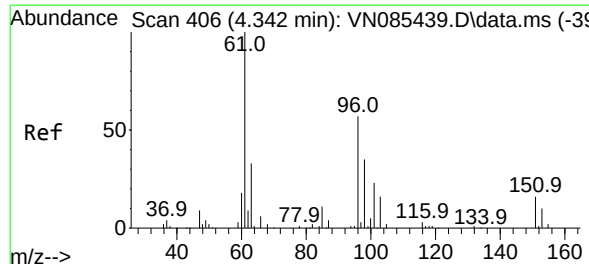
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.073 ug/l m
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:101 Resp: 2156
Ion Ratio Lower Upper
101 100
85 35.3 37.8 56.8#
151 66.4 58.8 88.2





#12

1,1-Dichloroethene

Concen: 0.927 ug/l

RT: 4.330 min Scan# 406

Delta R.T. -0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 1660

Ion Ratio Lower Upper

96 100

61 122.1 141.0 211.4#

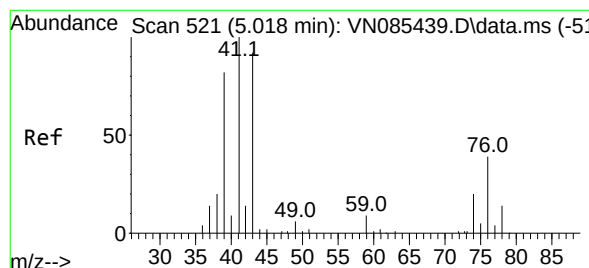
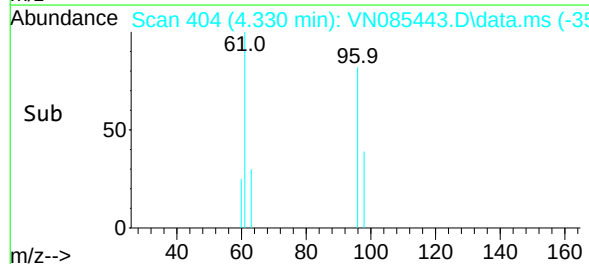
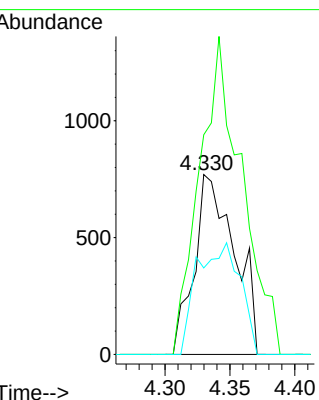
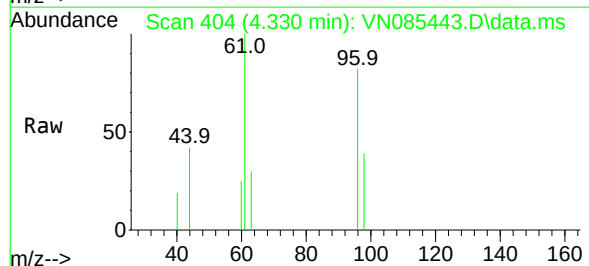
98 48.1 49.0 73.6#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 1.094 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

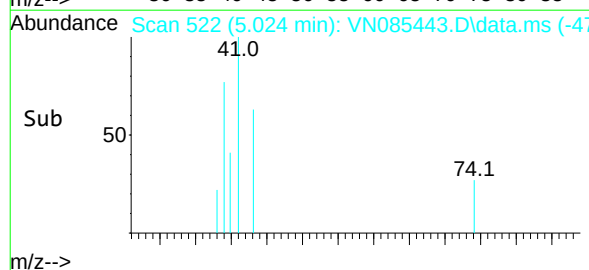
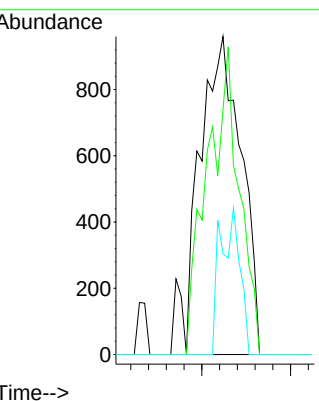
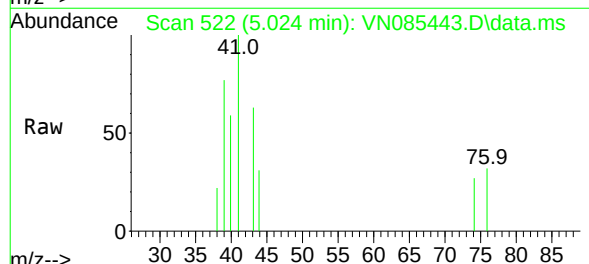
Tgt Ion: 41 Resp: 3179

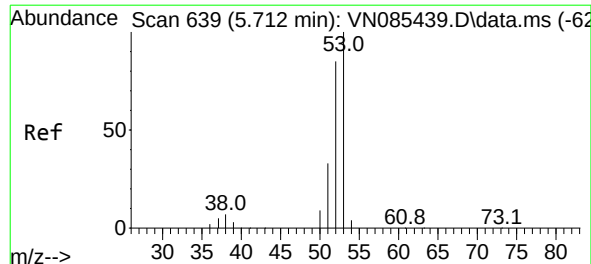
Ion Ratio Lower Upper

41 100

39 73.1 64.4 96.6

76 21.4 30.5 45.7#





#15

Acrylonitrile

Concen: 5.070 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

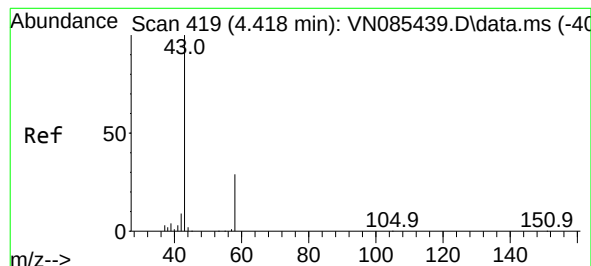
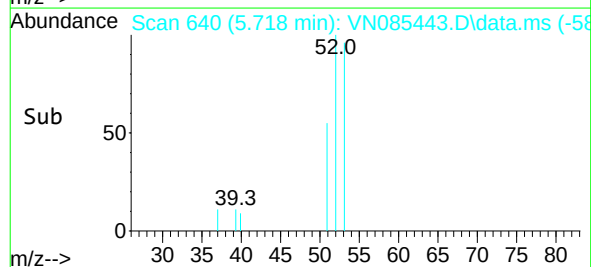
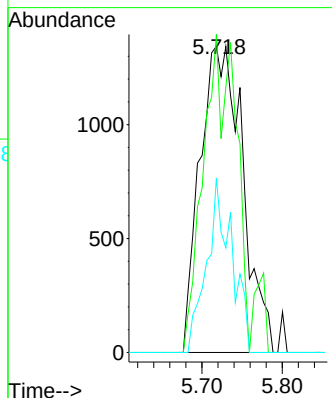
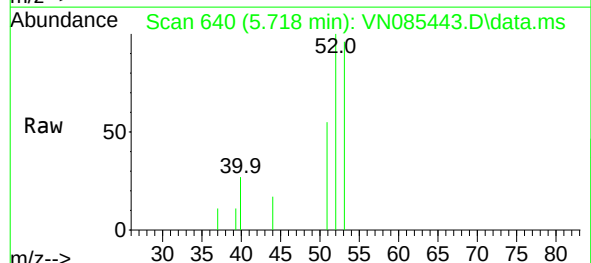
ClientSampleId :

VSTDICC001

Tgt Ion:	53	Resp:	4967
Ion	Ratio	Lower	Upper
53	100		
52	45.1	65.5	98.3
51	33.3	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 5.862 ug/l

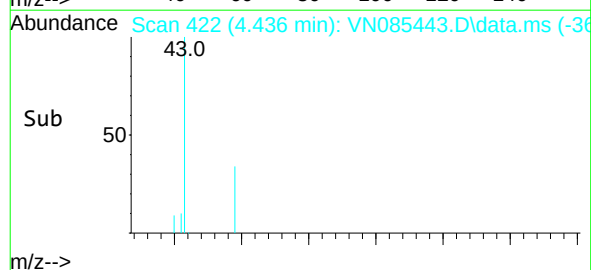
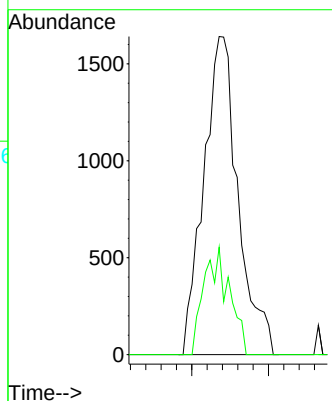
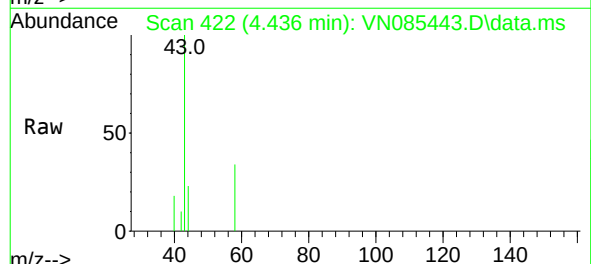
RT: 4.436 min Scan# 422

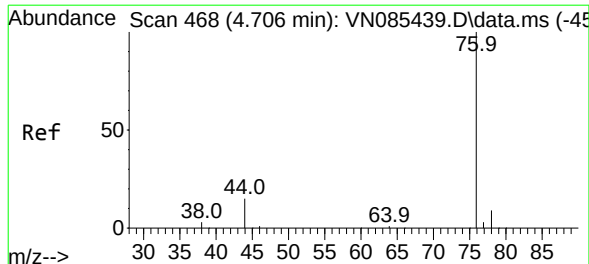
Delta R.T. 0.018 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

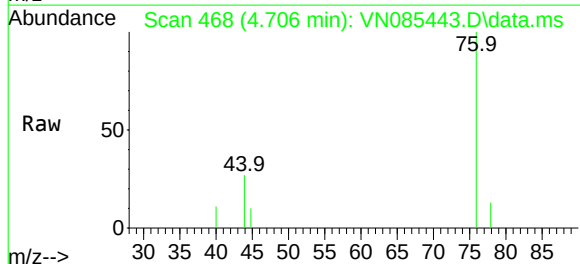
Tgt Ion:	43	Resp:	5102
Ion	Ratio	Lower	Upper
43	100		
58	33.8	23.8	35.6





#17
Carbon Disulfide
Concen: 1.197 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

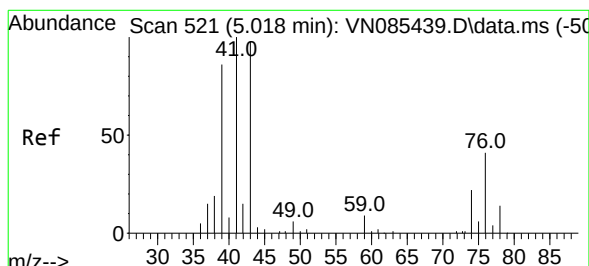
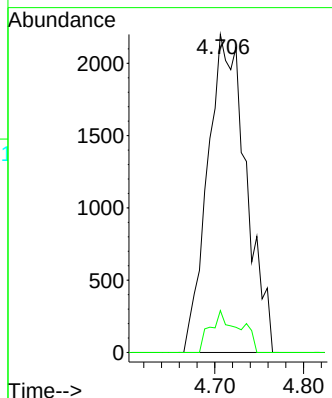
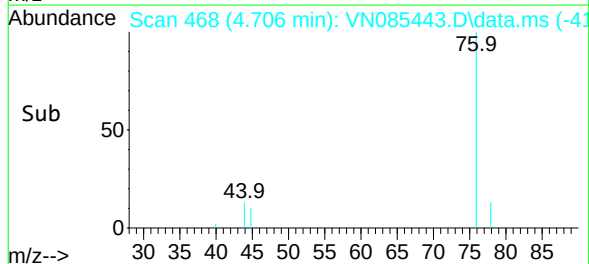
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



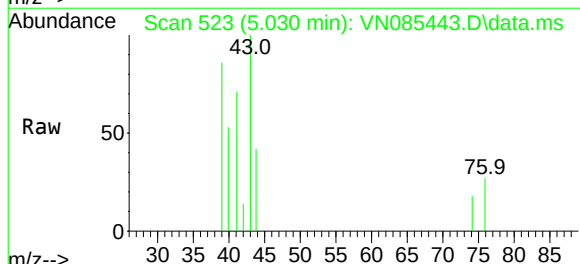
Tgt Ion: 76 Resp: 6601
Ion Ratio Lower Upper
76 100
78 13.2 6.9 10.3#

Manual Integrations
APPROVED

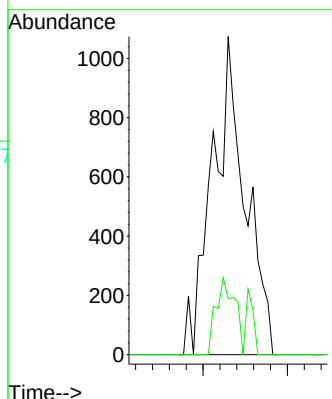
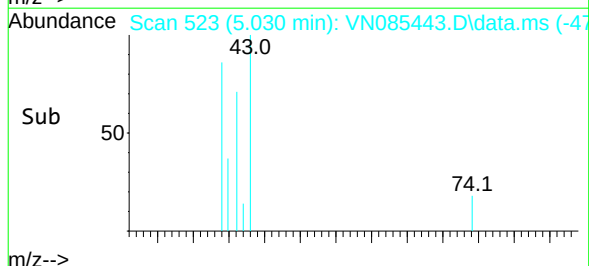
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

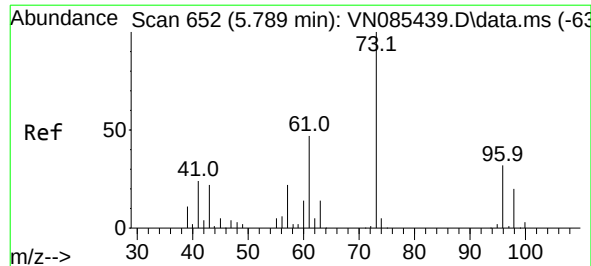


#18
Methyl Acetate
Concen: 1.099 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19



Tgt Ion: 43 Resp: 2908
Ion Ratio Lower Upper
43 100
74 13.8 18.6 28.0#





#19

Methyl tert-butyl Ether

Concen: 0.887 ug/l

RT: 5.789 min Scan# 651

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 5156

Ion Ratio Lower Upper

73 100

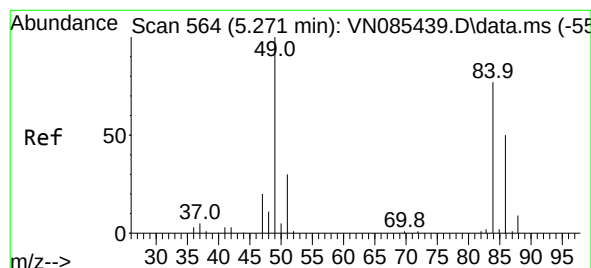
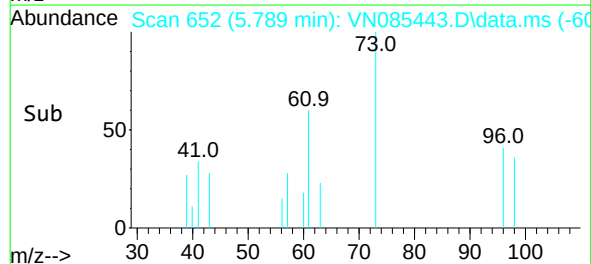
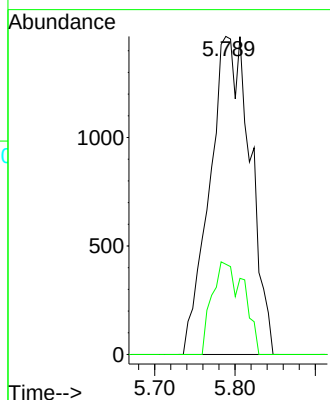
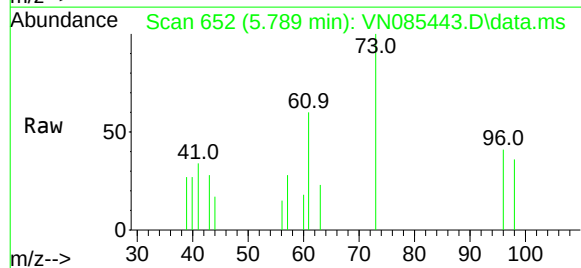
57 28.4 17.8 26.8#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 1.016 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 84 Resp: 2190

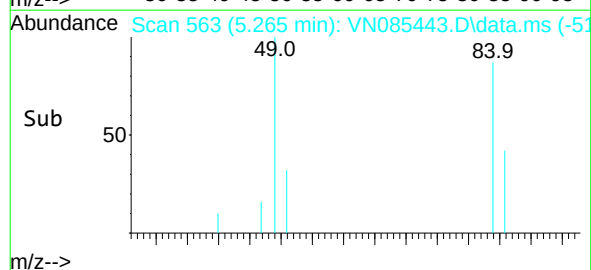
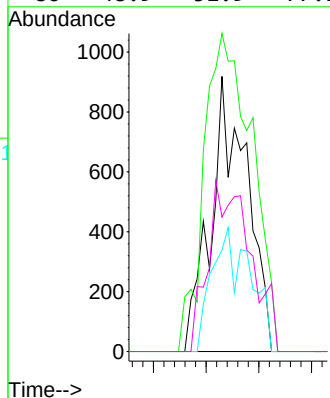
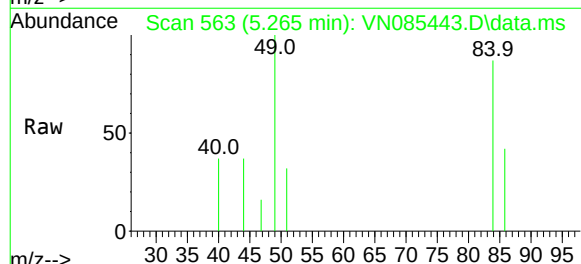
Ion Ratio Lower Upper

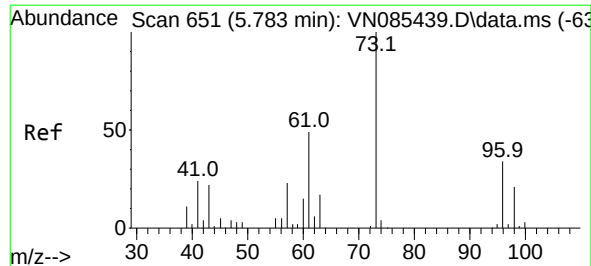
84 100

49 115.6 104.1 156.1

51 36.9 31.0 46.4

86 48.9 51.9 77.9#





#21

trans-1,2-Dichloroethene

Concen: 1.102 ug/l

RT: 5.794 min Scan# 651

Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 2110

Ion Ratio Lower Upper

96 100

61 98.7 115.7 173.5#

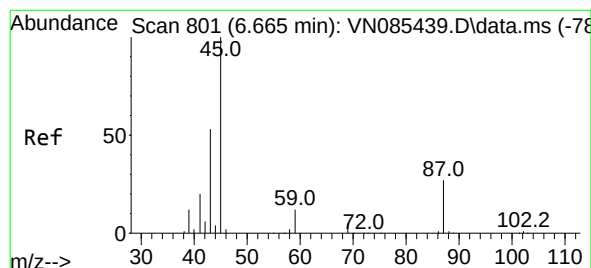
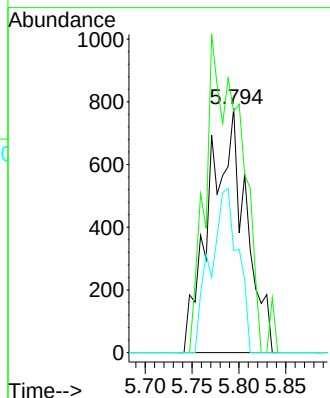
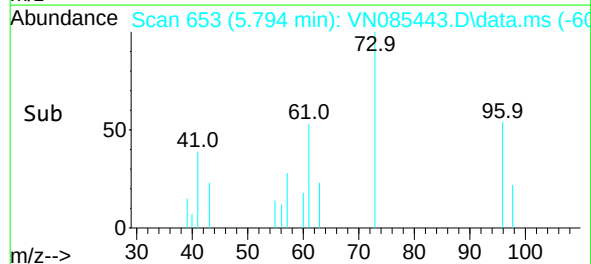
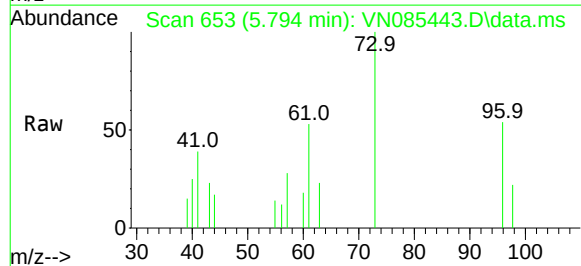
98 41.8 49.8 74.8#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

Concen: 0.882 ug/l

RT: 6.677 min Scan# 803

Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 45 Resp: 5691

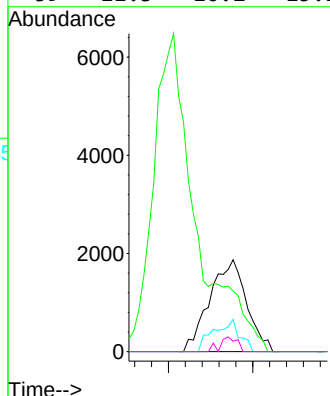
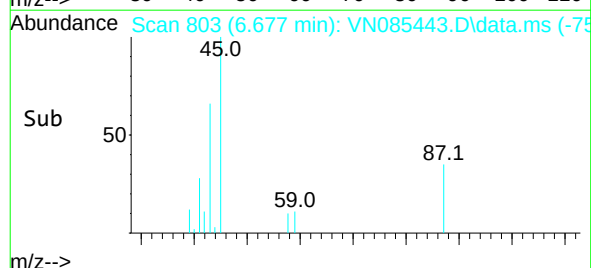
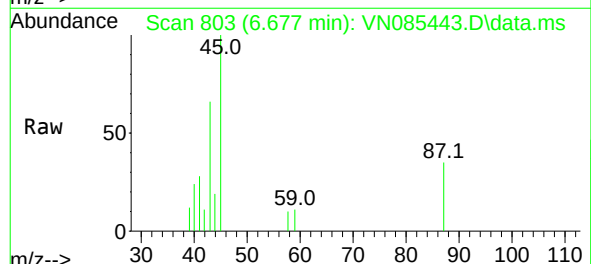
Ion Ratio Lower Upper

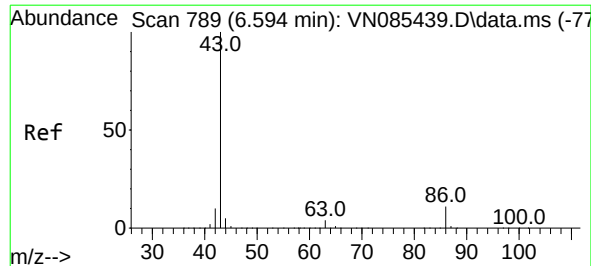
45 100

43 65.9 45.0 67.6

87 35.0 21.8 32.8#

59 11.3 10.2 15.2





#23

Vinyl Acetate

Concen: 4.090 ug/l m

RT: 6.606 min Scan# 791

Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 18526

Ion Ratio Lower Upper

43 100

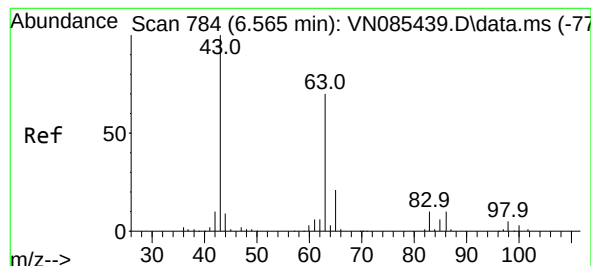
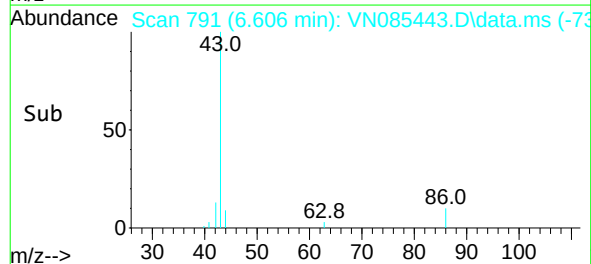
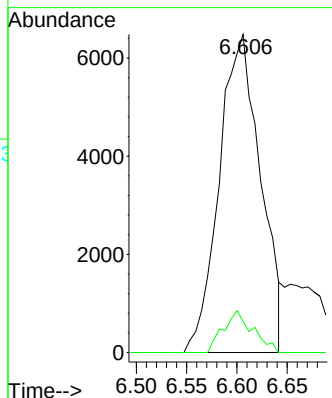
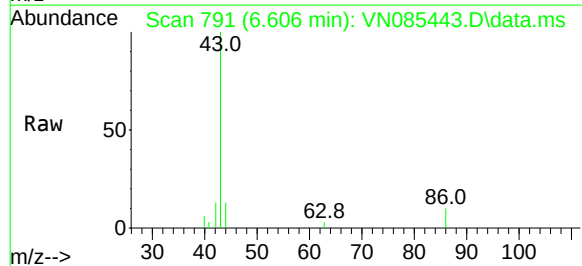
86 9.8 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 1.022 ug/l m

RT: 6.583 min Scan# 787

Delta R.T. 0.018 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

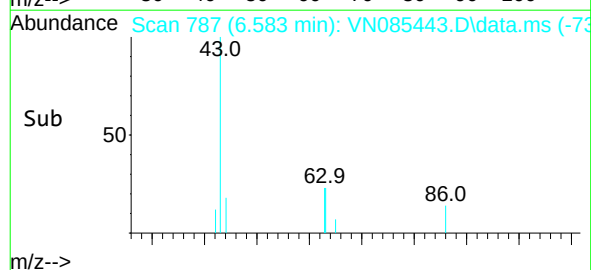
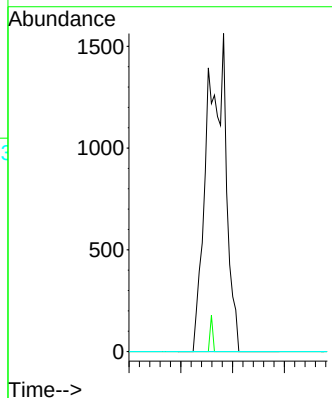
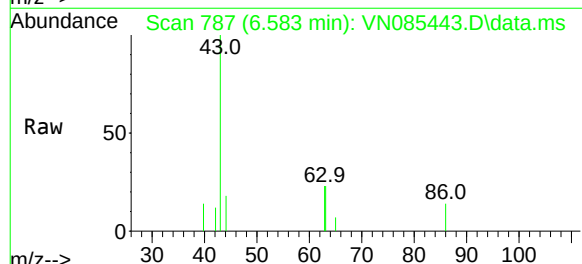
Tgt Ion: 63 Resp: 4020

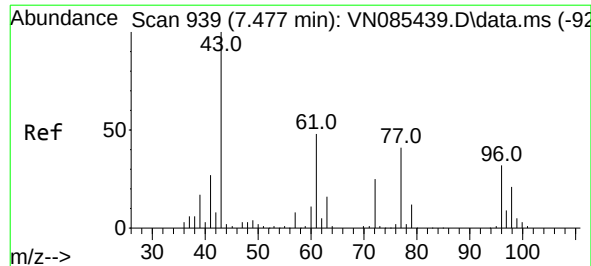
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 5.034 ug/l m

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 6448

Ion Ratio Lower Upper

43 100

72 18.0 20.2 30.4#

Instrument :

MSVOA_N

ClientSampleId :

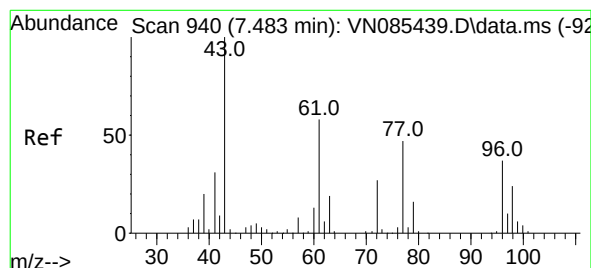
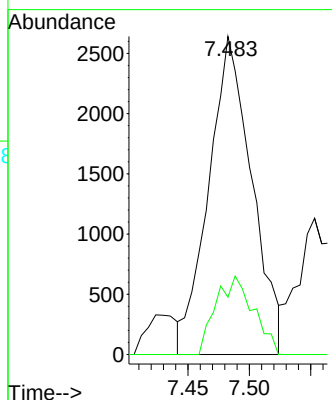
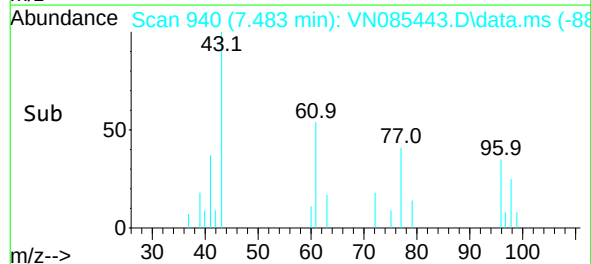
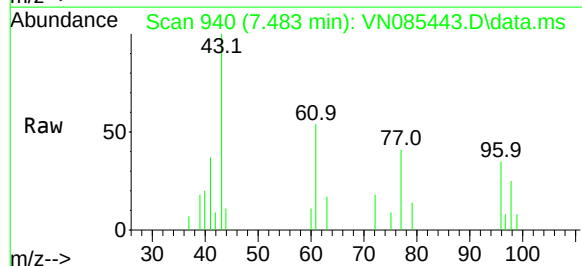
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 0.976 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085443.D

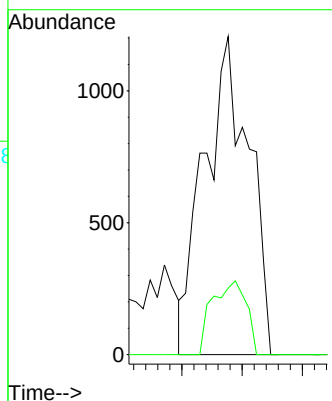
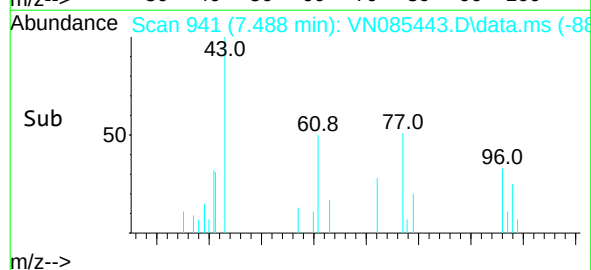
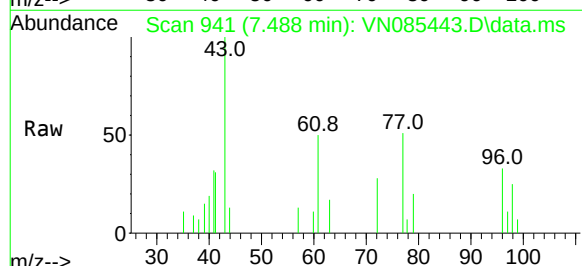
Acq: 14 Jan 2025 17:19

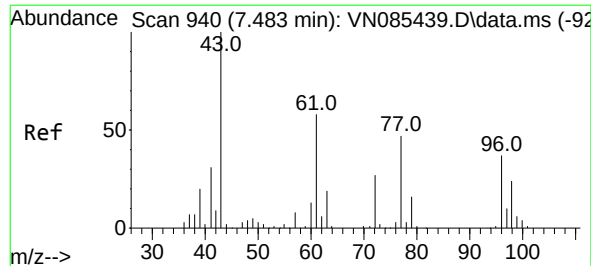
Tgt Ion: 77 Resp: 3104

Ion Ratio Lower Upper

77 100

97 17.7 10.7 32.1





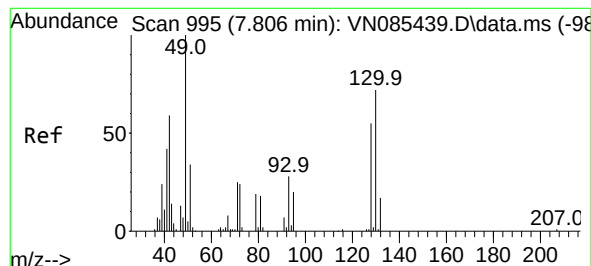
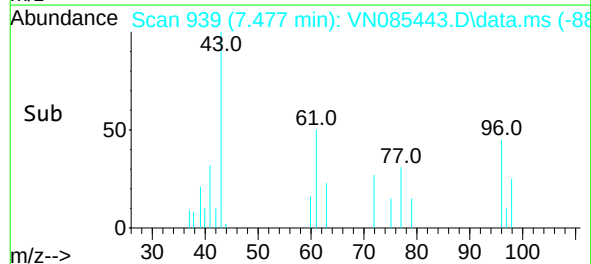
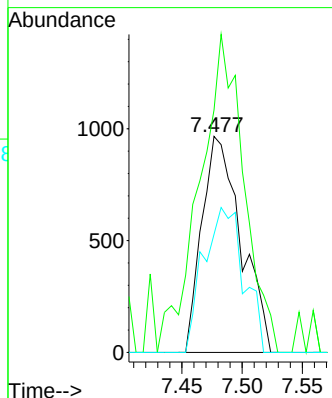
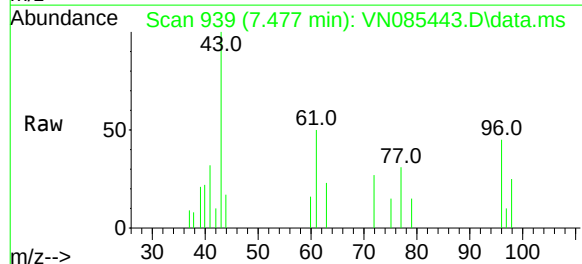
#27
cis-1,2-Dichloroethene
Concen: 0.969 ug/l
RT: 7.477 min Scan# 93
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2185
Ion Ratio Lower Upper
96 100
61 166.1 0.0 311.8
98 68.7 0.0 126.0

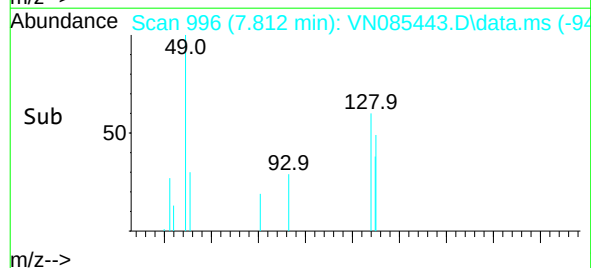
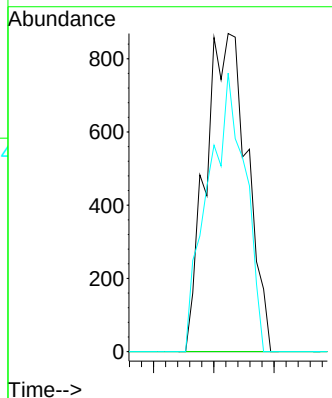
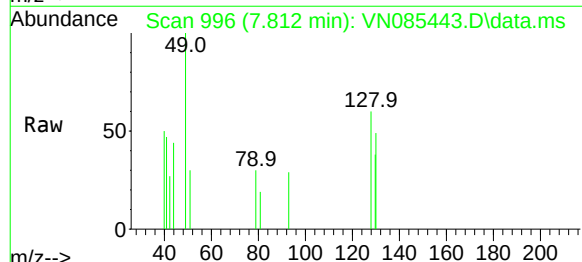
Manual Integrations
APPROVED

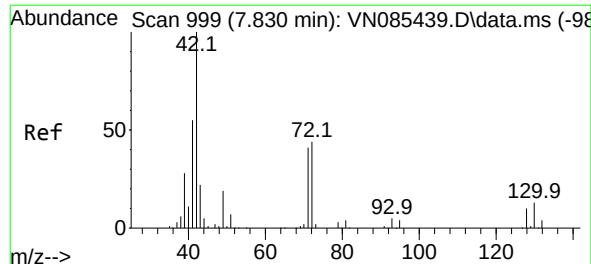
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 1.138 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 49 Resp: 2082
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.4
130 78.0 55.0 82.4





#29

Tetrahydrofuran

Concen: 4.548 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

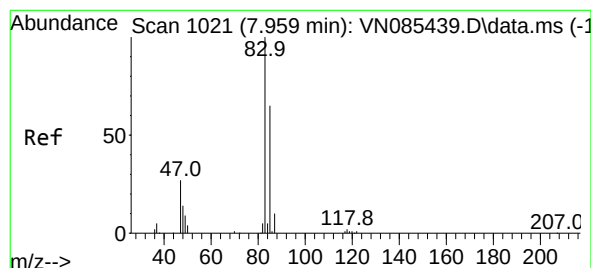
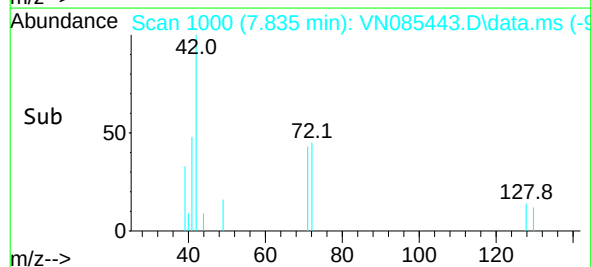
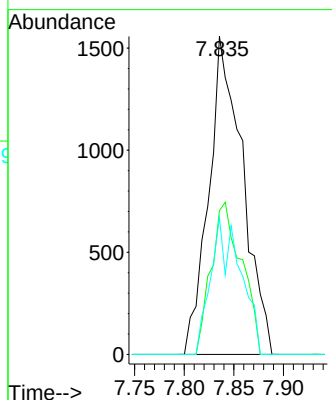
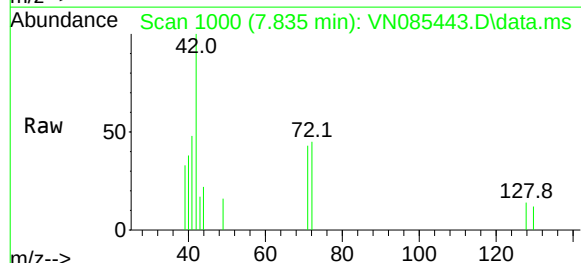
ClientSampleId :

VSTDICC001

Tgt Ion:	42	Resp:	3693
Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	37.9	32.5	48.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30

Chloroform

Concen: 1.045 ug/l

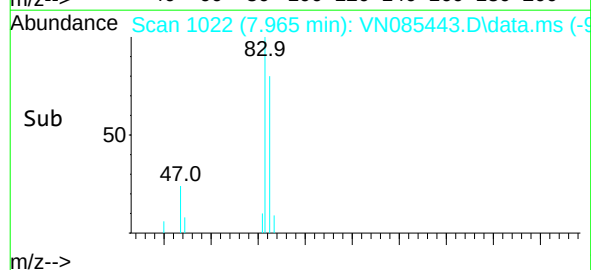
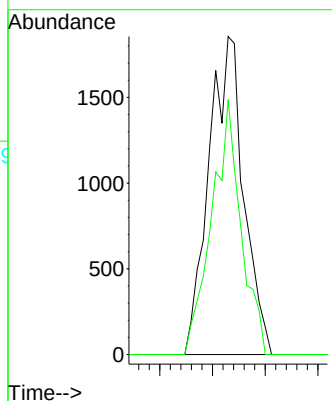
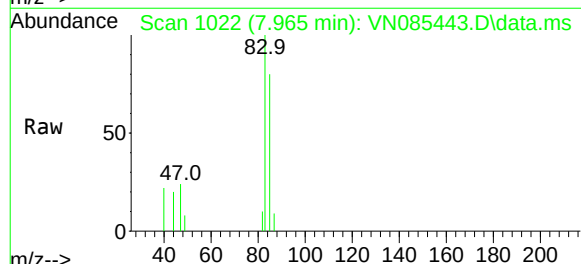
RT: 7.965 min Scan# 1022

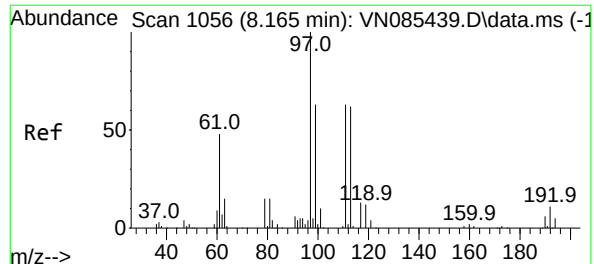
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	83	Resp:	4250
Ion	Ratio	Lower	Upper
83	100		
85	80.2	51.8	77.6





#32

1,1,1-Trichloroethane

Concen: 1.031 ug/l

RT: 8.165 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 3678

Ion Ratio Lower Upper

97 100

99 0.0 49.8 74.6

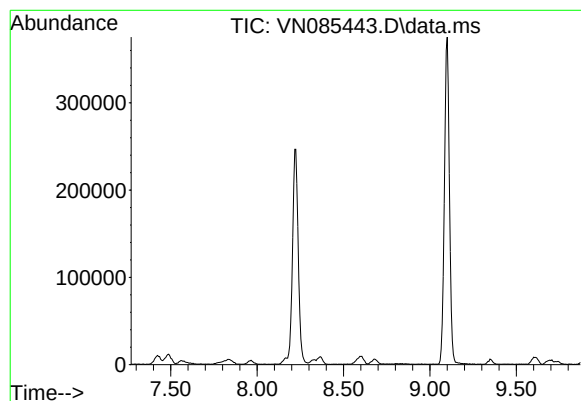
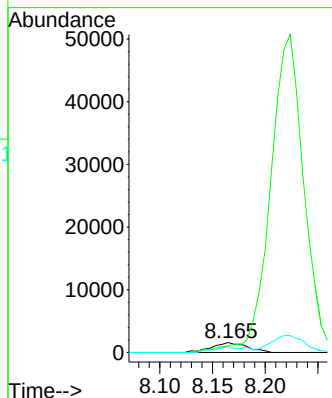
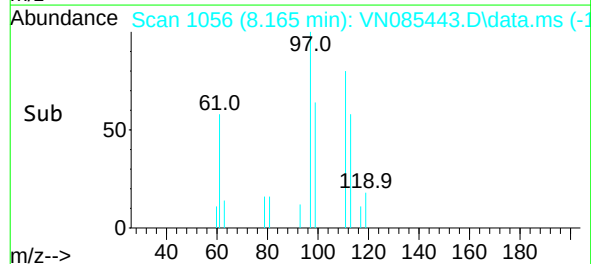
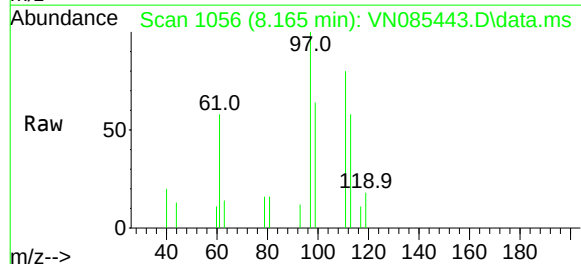
61 52.2 41.4 62.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.57 min

Lab File: VN085443.D

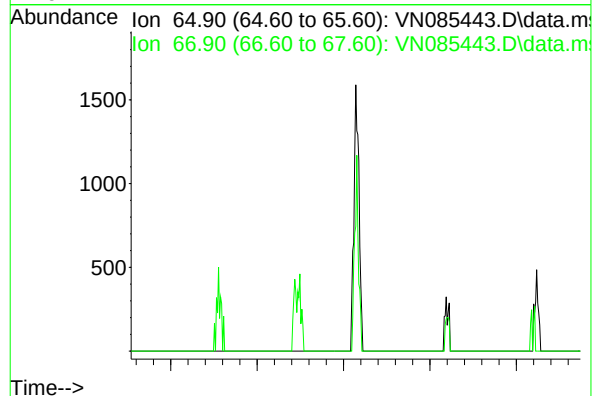
Acq: 14 Jan 2025 17:19

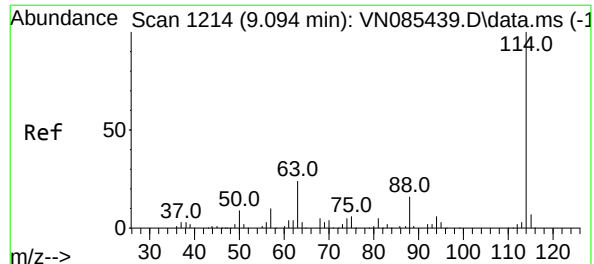
Tgt Ion: 65

Sig Exp Ratio

65 100

67 50.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 302938

Ion Ratio Lower Upper

114 100

63 22.3 0.0 47.6

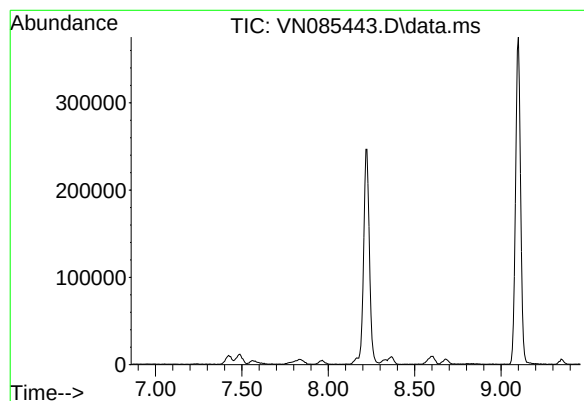
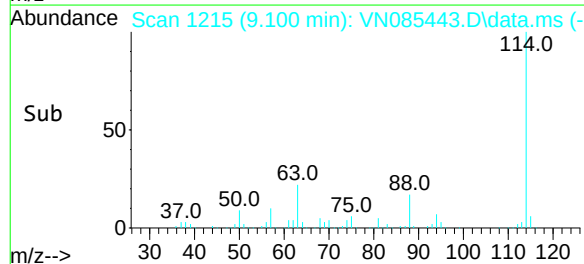
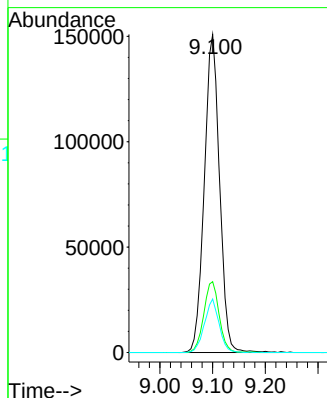
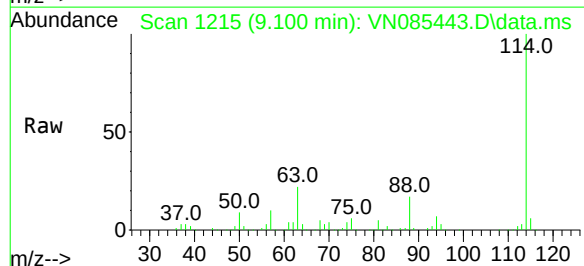
88 16.8 0.0 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

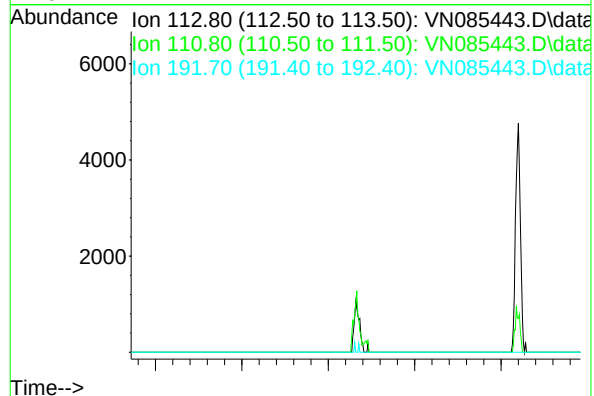
Tgt Ion: 113

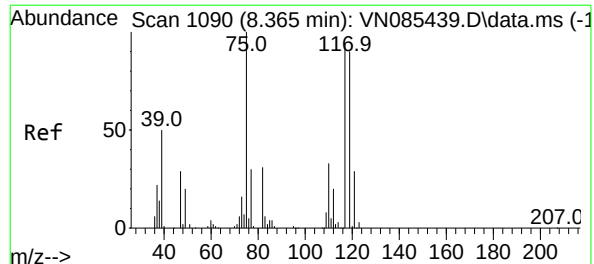
Sig Exp Ratio

113 100

111 103.4

192 17.9





#36

1,1-Dichloropropene

Concen: 1.046 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 3084

Ion Ratio Lower Upper

75 100

110 30.1 16.5 49.5

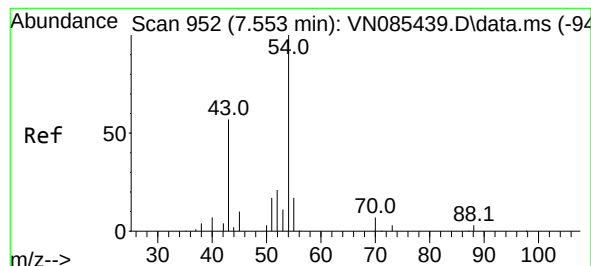
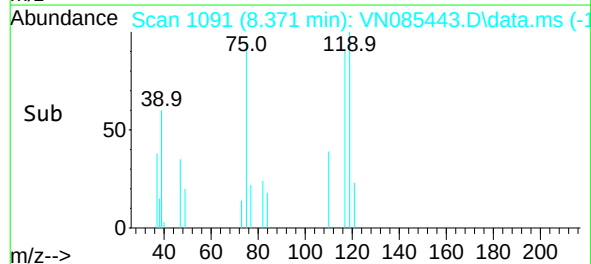
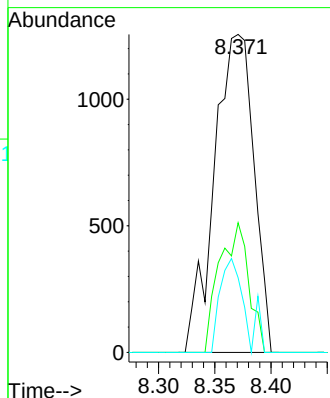
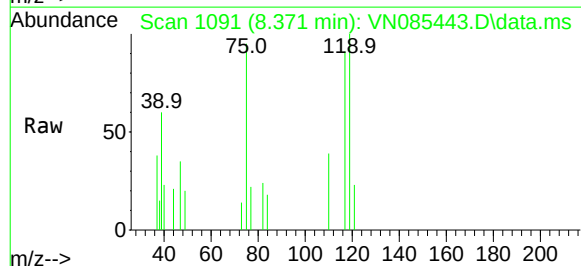
77 15.9 24.4 36.6#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#37

Ethyl Acetate

Concen: 1.026 ug/l m

RT: 7.577 min Scan# 956

Delta R.T. 0.023 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

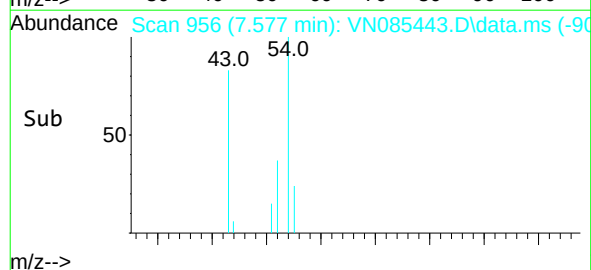
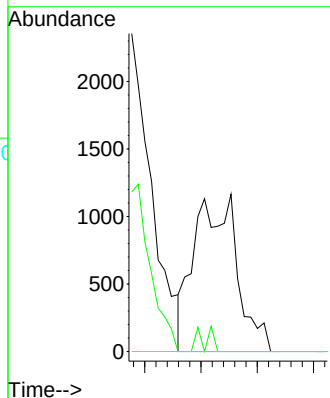
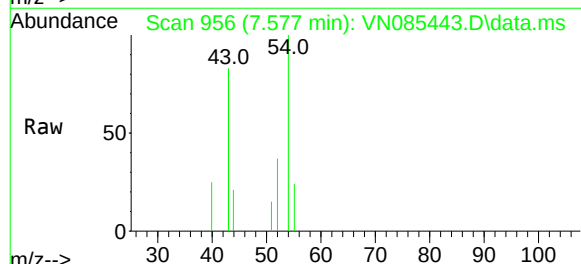
Tgt Ion: 43 Resp: 3056

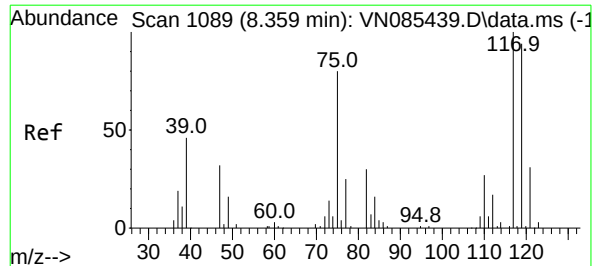
Ion Ratio Lower Upper

43 100

61 4.3 10.9 16.3#

70 0.0 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 1.018 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 117 Resp: 3436

Ion Ratio Lower Upper

117 100

119 106.6 75.4 113.2

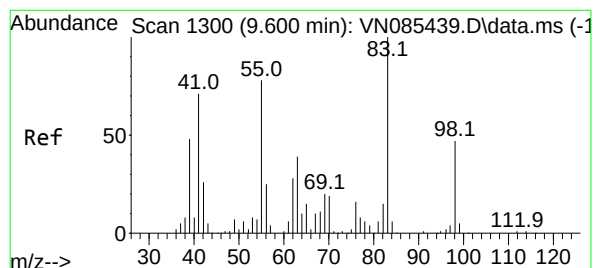
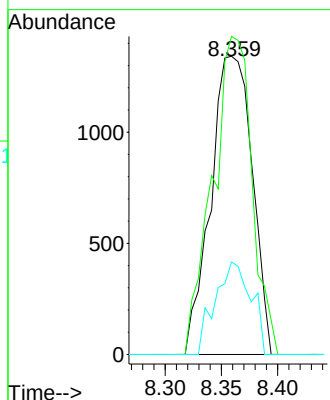
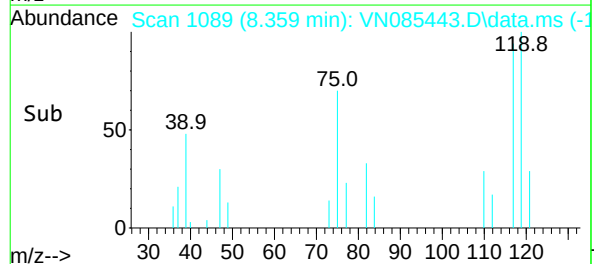
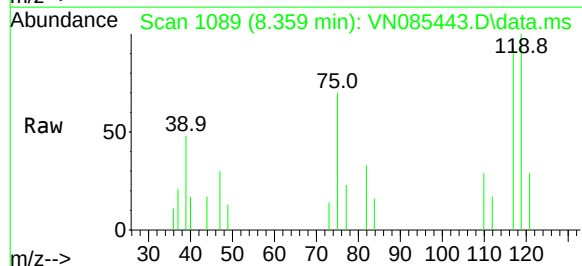
121 31.0 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#39

Methylcyclohexane

Concen: 0.867 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

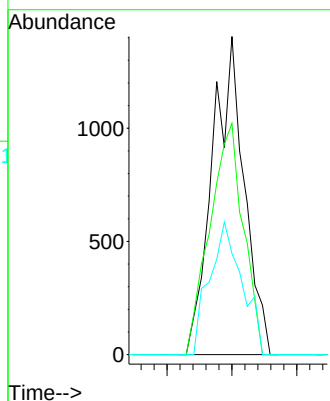
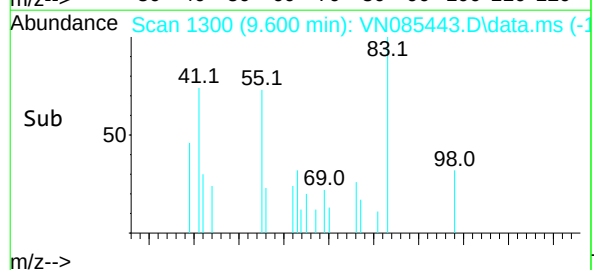
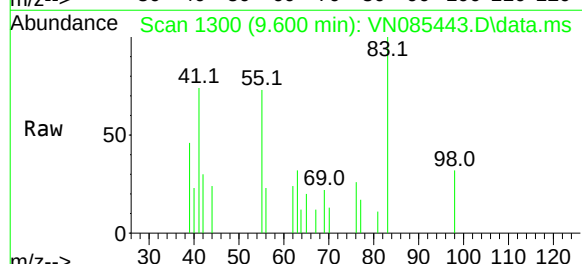
Tgt Ion: 83 Resp: 2403

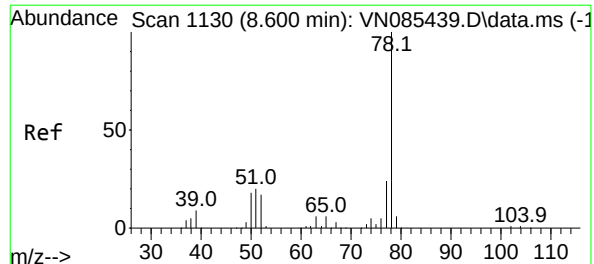
Ion Ratio Lower Upper

83 100

55 72.7 62.6 94.0

98 31.8 37.7 56.5#





#40

Benzene

Concen: 0.957 ug/l

RT: 8.606 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 8480

Ion Ratio Lower Upper

78 100

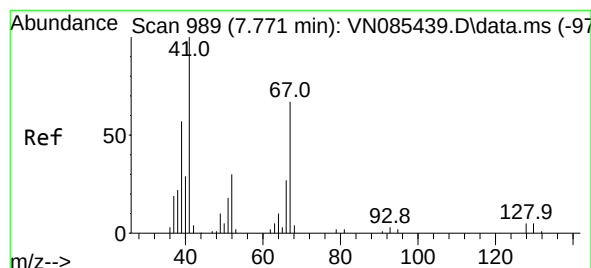
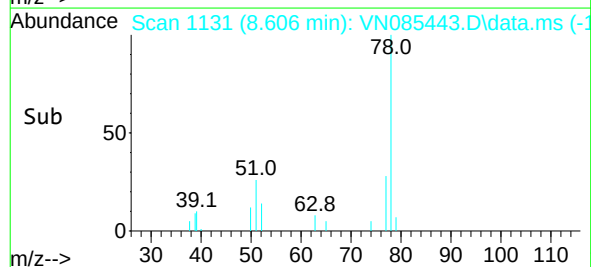
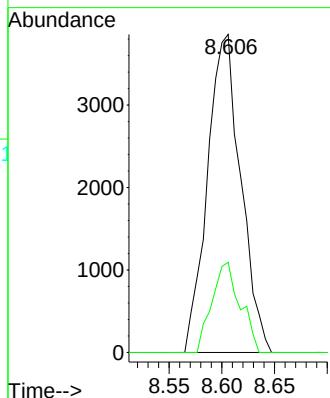
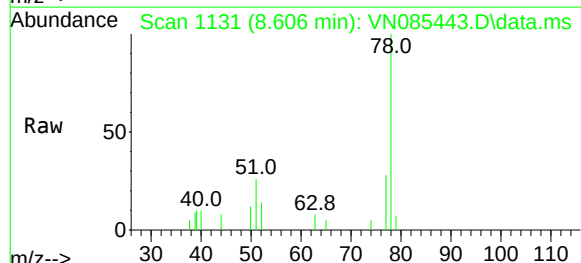
77 28.3 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#41

Methacrylonitrile

Concen: 0.941 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 41 Resp: 1458

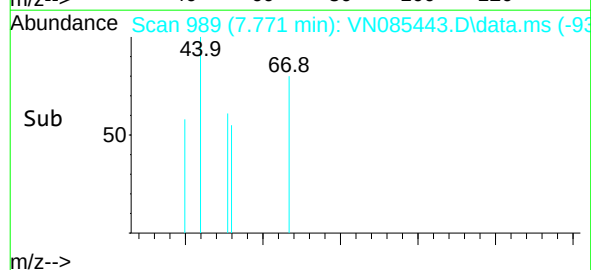
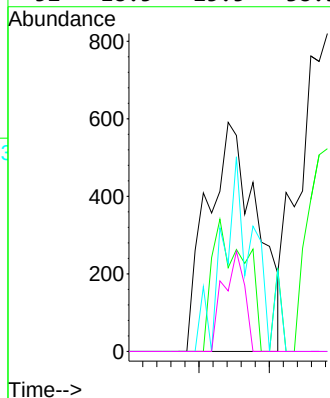
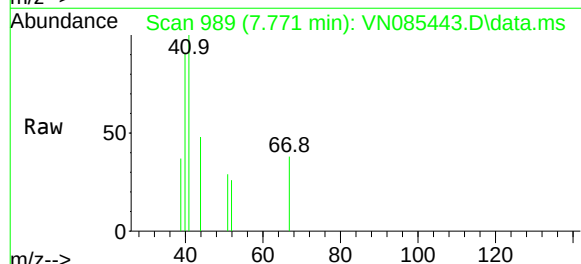
Ion Ratio Lower Upper

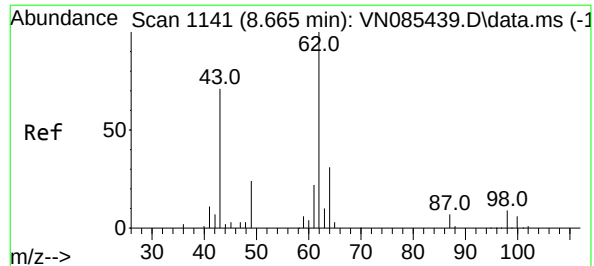
41 100

39 37.6 46.0 69.0#

67 53.8 57.4 86.2#

52 18.5 25.5 38.3#





#42

1,2-Dichloroethane

Concen: 0.938 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 3131

Ion Ratio Lower Upper

62 100

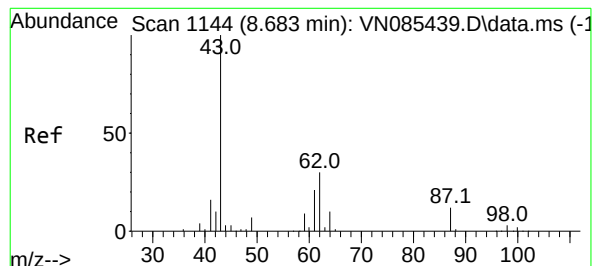
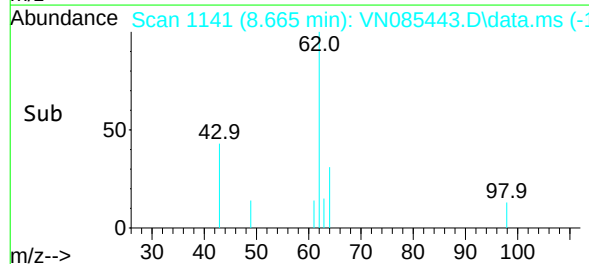
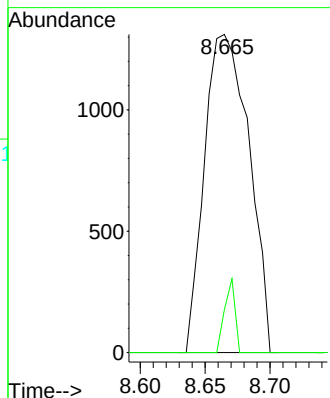
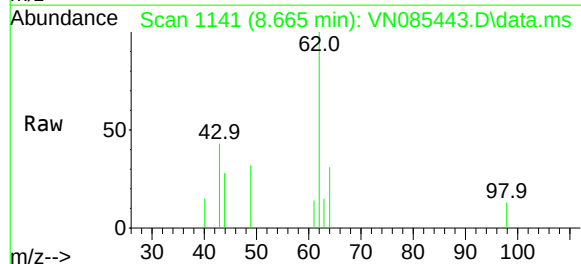
98 5.4 0.0 17.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#43

Isopropyl Acetate

Concen: 1.007 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

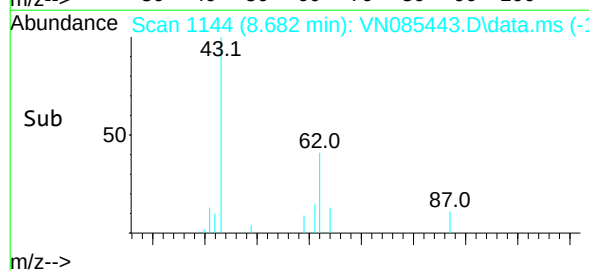
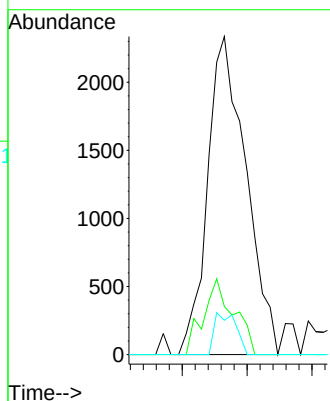
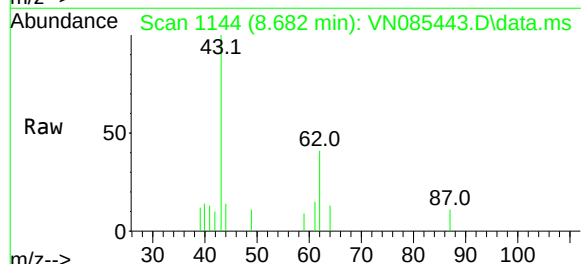
Tgt Ion: 43 Resp: 4803

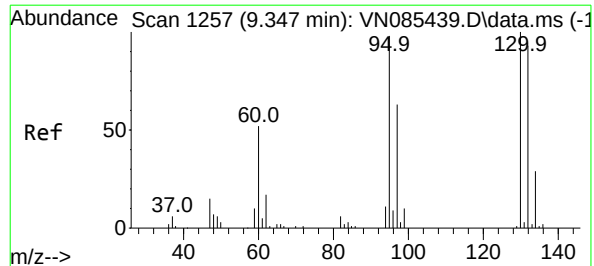
Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

87 7.3 9.8 14.8#





#44

Trichloroethene

Concen: 1.034 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 2133

Ion Ratio Lower Upper

130 100

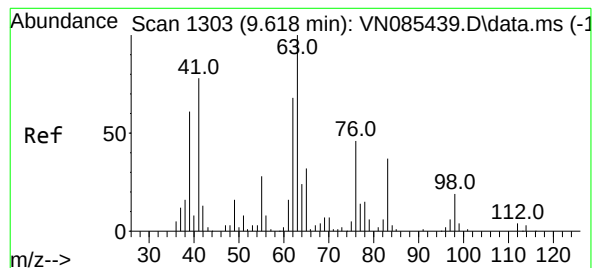
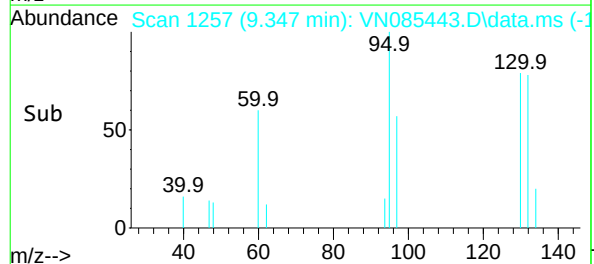
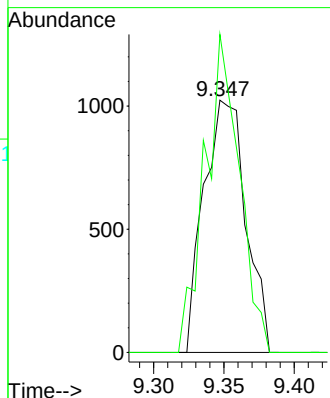
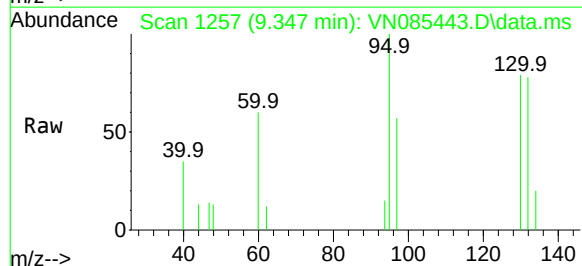
95 126.1 0.0 195.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#45

1,2-Dichloropropane

Concen: 0.992 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085443.D

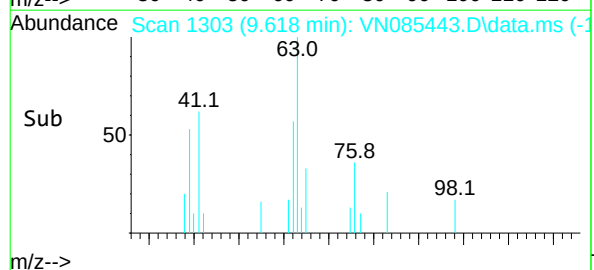
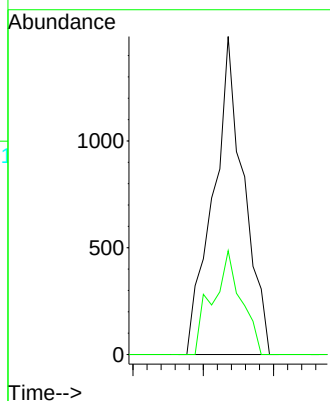
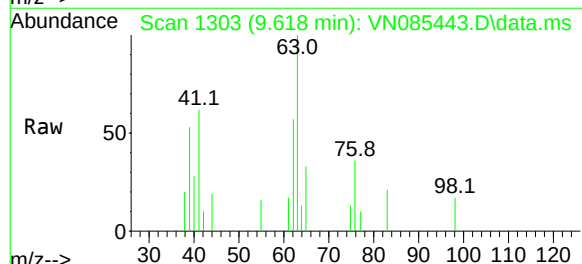
Acq: 14 Jan 2025 17:19

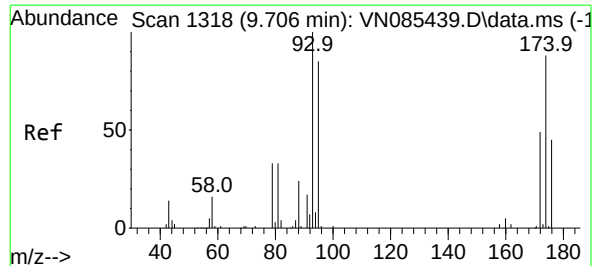
Tgt Ion: 63 Resp: 2246

Ion Ratio Lower Upper

63 100

65 32.6 25.6 38.4





#46

Dibromomethane

Concen: 1.083 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085443.D

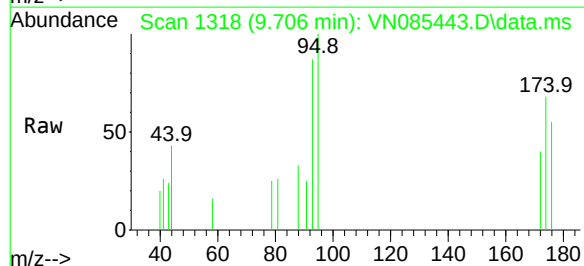
Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

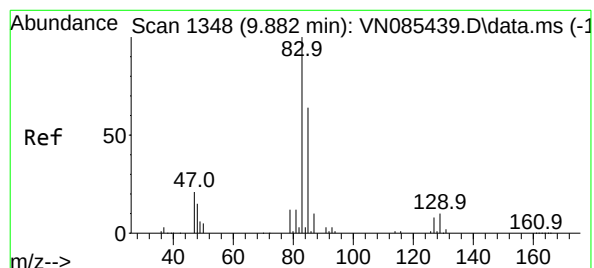
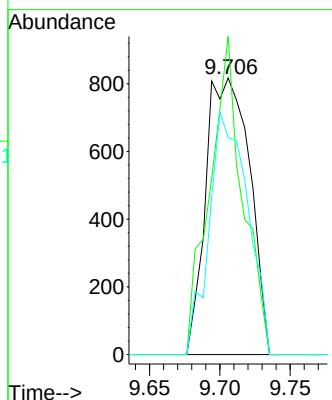
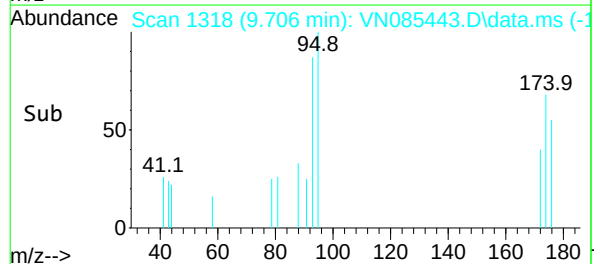
VSTDICC001



Tgt Ion:	93	Resp:	1769
Ion	Ratio	Lower	Upper
93	100		
95	86.5	64.7	97.1
174	77.4	69.0	103.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#47

Bromodichloromethane

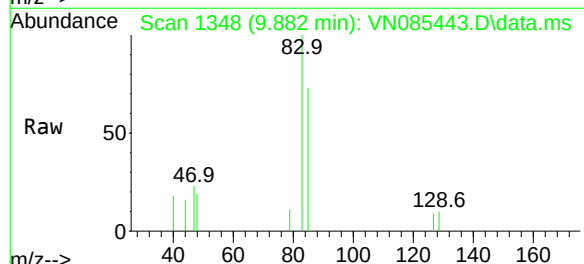
Concen: 0.882 ug/l

RT: 9.882 min Scan# 1348

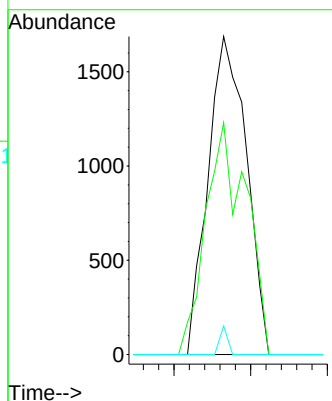
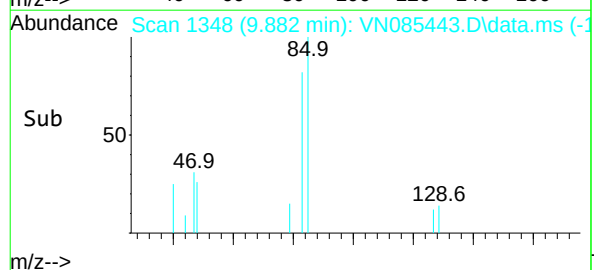
Delta R.T. 0.000 min

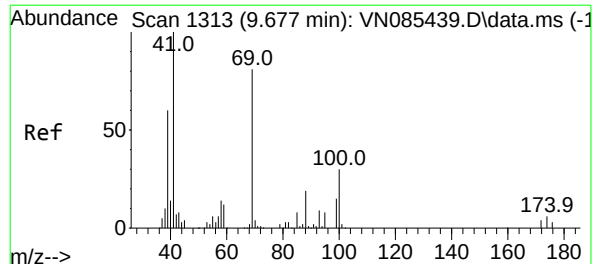
Lab File: VN085443.D

Acq: 14 Jan 2025 17:19



Tgt Ion:	83	Resp:	2935
Ion	Ratio	Lower	Upper
83	100		
85	72.9	51.2	76.8
127	9.0	6.5	9.7





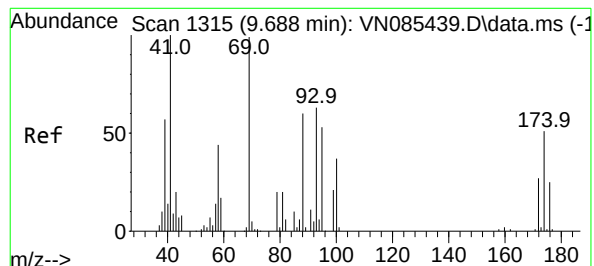
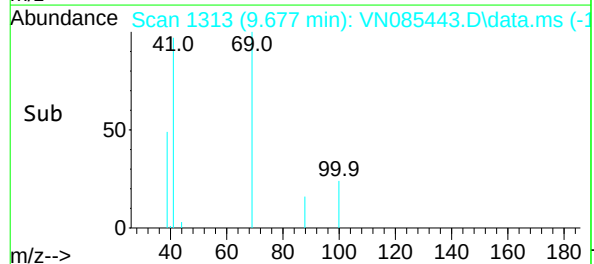
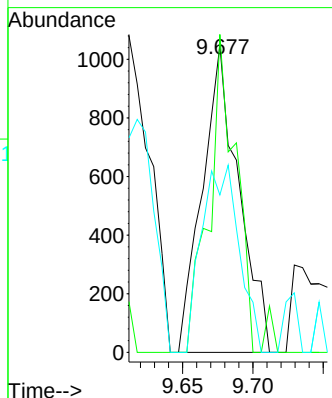
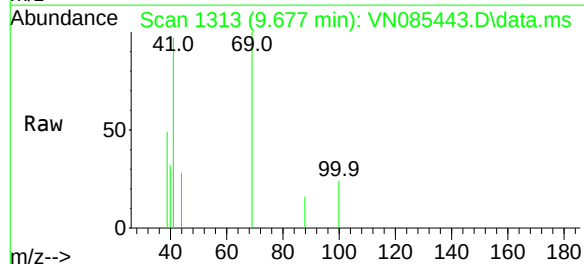
#48
Methyl methacrylate
Concen: 0.878 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 1886
Ion Ratio Lower Upper
41 100
69 76.2 64.7 97.1
39 62.8 49.0 73.6

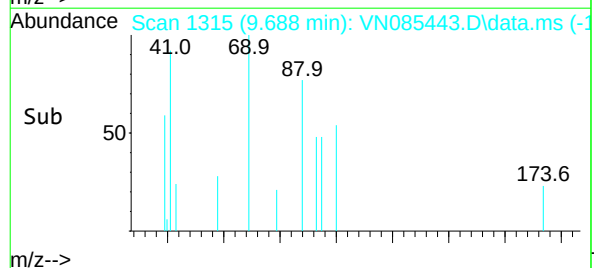
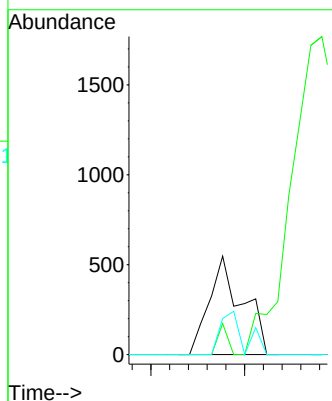
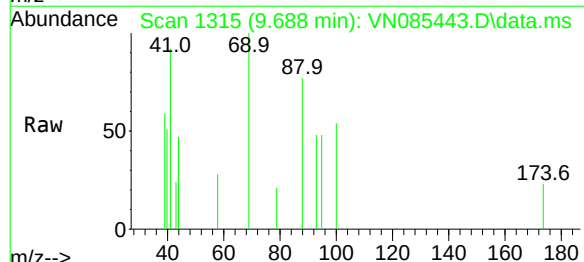
Manual Integrations
APPROVED

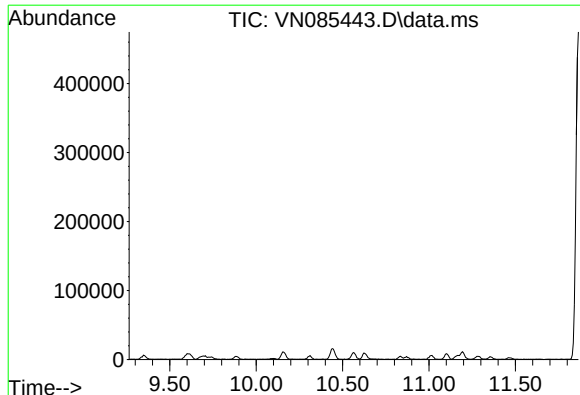
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#49
1,4-Dioxane
Concen: 18.616 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 88 Resp: 673
Ion Ratio Lower Upper
88 100
43 0.0 26.6 39.8#
58 31.1 59.5 89.3#





#50

Toluene-d8

Concen: 0.000 ug/l

Expected RT: 10.56 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 98

Sig Exp Ratio

98 100

100 65.3

Instrument :

MSVOA_N

ClientSampleId :

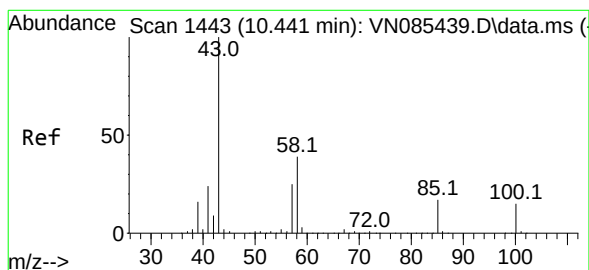
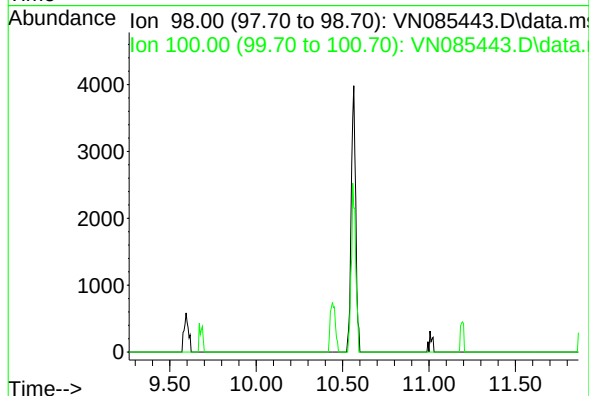
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#51

4-Methyl-2-Pentanone

Concen: 4.163 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN085443.D

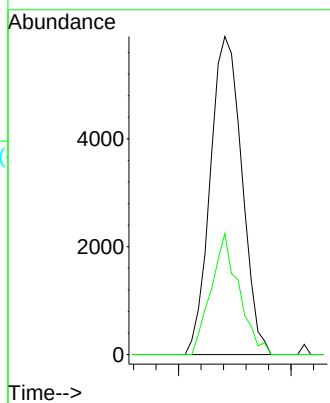
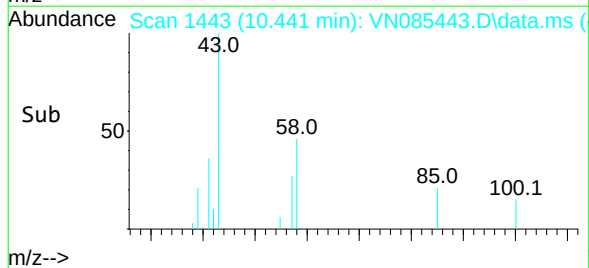
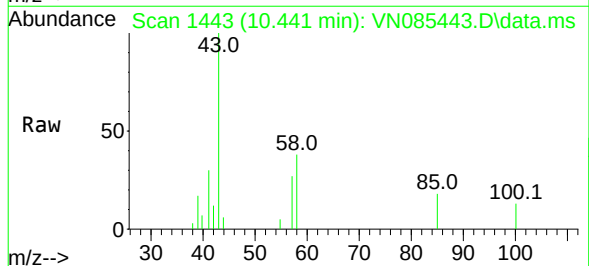
Acq: 14 Jan 2025 17:19

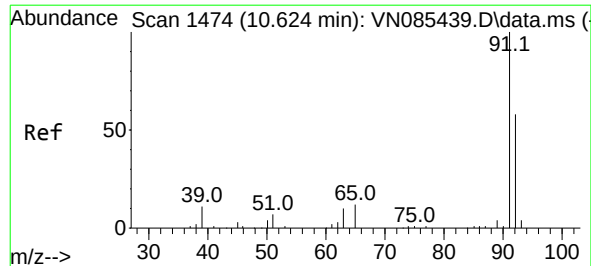
Tgt Ion: 43 Resp: 11523

Ion Ratio Lower Upper

43 100

58 33.6 30.5 45.7





#52

Toluene

Concen: 0.814 ug/l

RT: 10.618 min Scan# 1473

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 4180

Ion Ratio Lower Upper

92 100

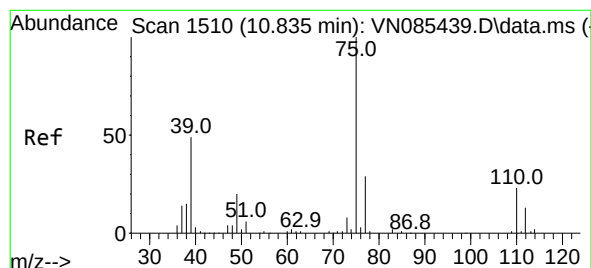
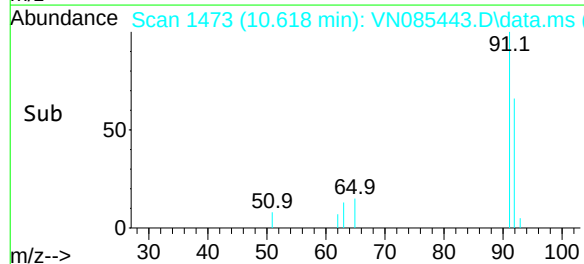
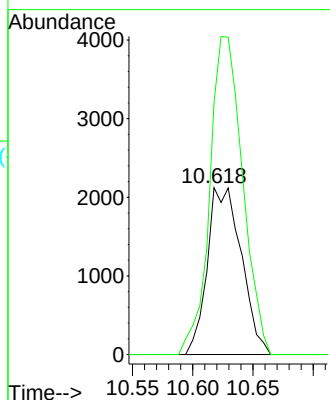
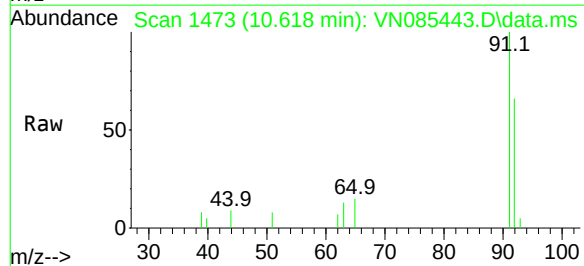
91 183.9 139.2 208.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#53

t-1,3-Dichloropropene

Concen: 0.802 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN085443.D

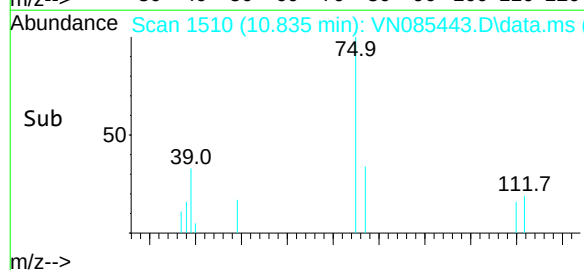
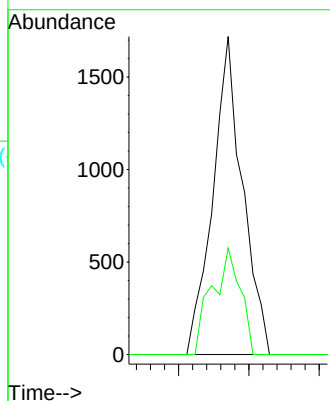
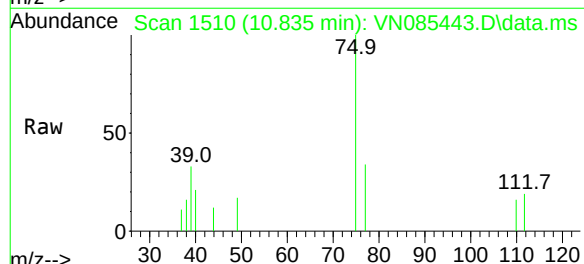
Acq: 14 Jan 2025 17:19

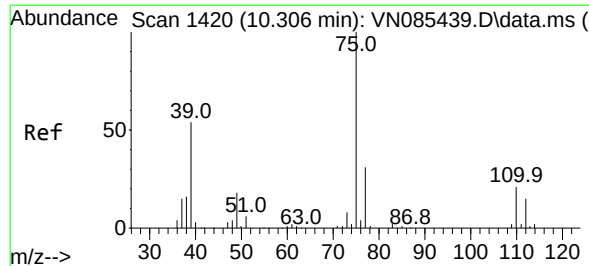
Tgt Ion: 75 Resp: 2522

Ion Ratio Lower Upper

75 100

77 33.5 23.5 35.3





#54

cis-1,3-Dichloropropene

Concen: 0.811 ug/l

RT: 10.312 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2725

Ion Ratio Lower Upper

75 100

77 39.0 25.0 37.4

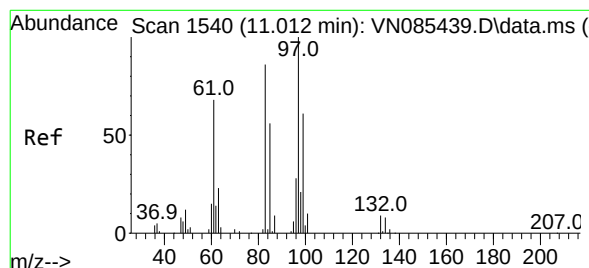
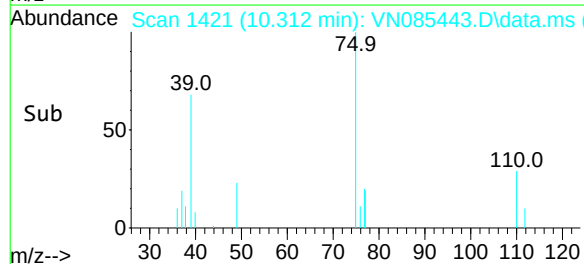
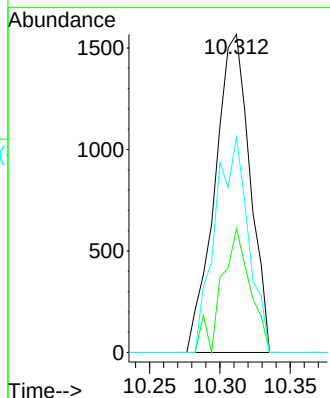
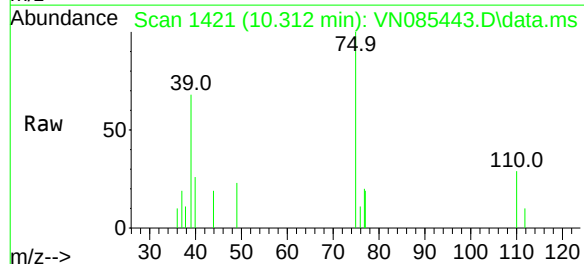
39 67.6 43.1 64.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#55

1,1,2-Trichloroethane

Concen: 0.935 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 97 Resp: 1901

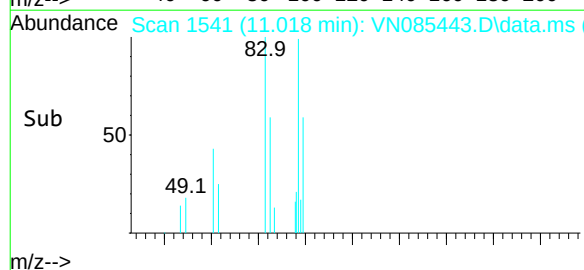
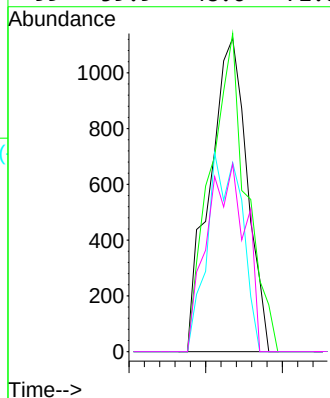
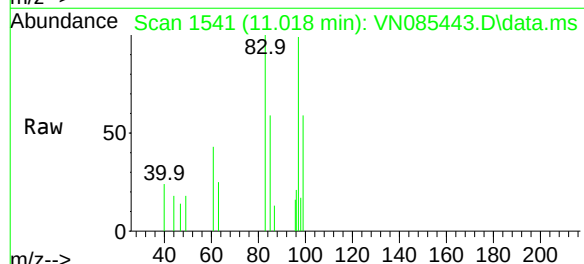
Ion Ratio Lower Upper

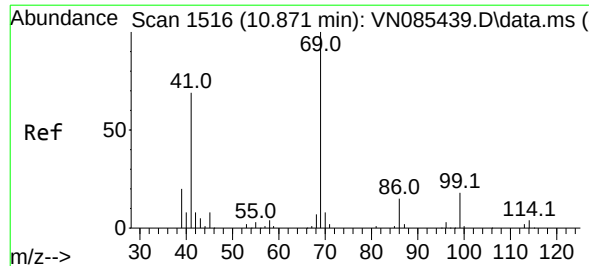
97 100

83 101.5 69.0 103.6

85 60.3 44.6 66.8

99 59.9 48.6 72.8





#56

Ethyl methacrylate

Concen: 2.471 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 69 Resp: 1923

Ion Ratio Lower Upper

69 100

41 74.4 54.6 82.0

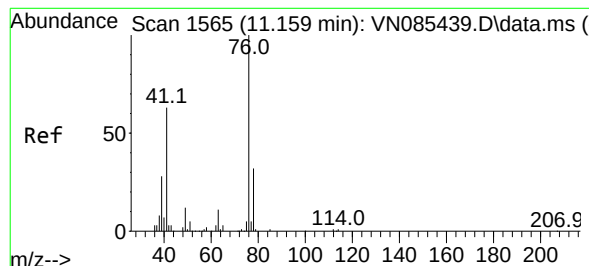
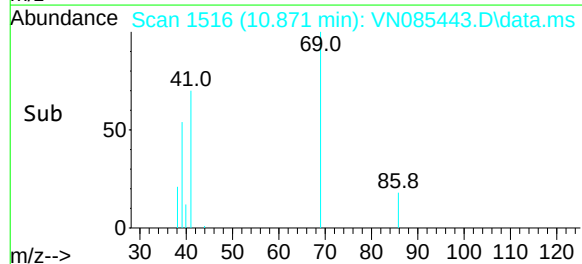
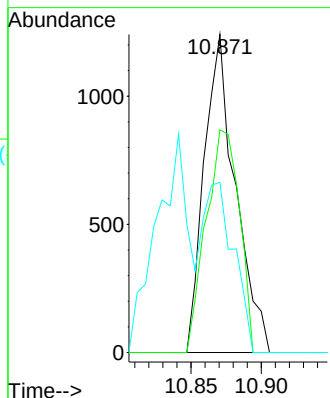
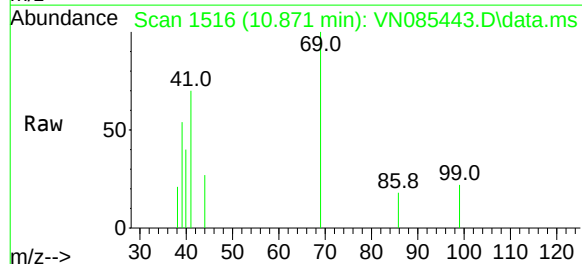
39 52.4 32.4 48.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#57

1,3-Dichloropropane

Concen: 0.881 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.006 min

Lab File: VN085443.D

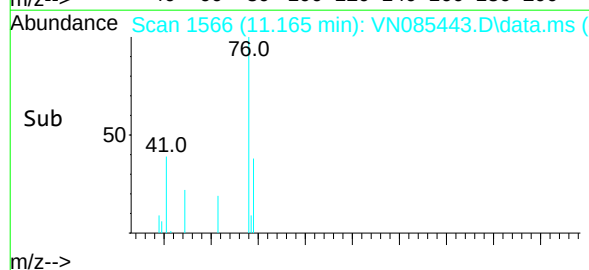
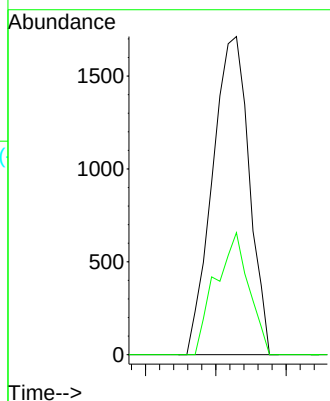
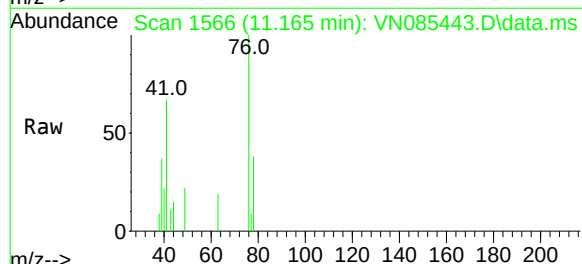
Acq: 14 Jan 2025 17:19

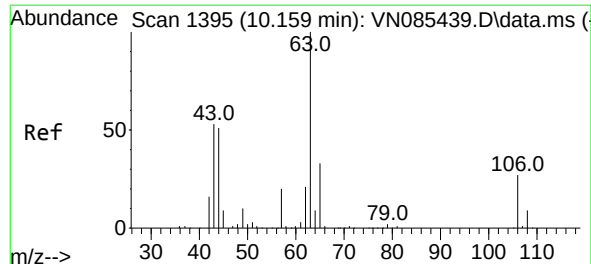
Tgt Ion: 76 Resp: 3113

Ion Ratio Lower Upper

76 100

78 34.9 25.6 38.4





#58

2-Chloroethyl Vinyl ether

Concen: 3.822 ug/l

RT: 10.153 min Scan# 1395

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

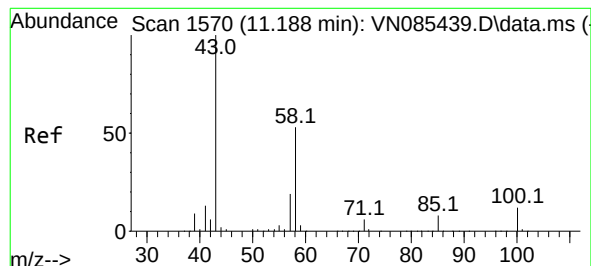
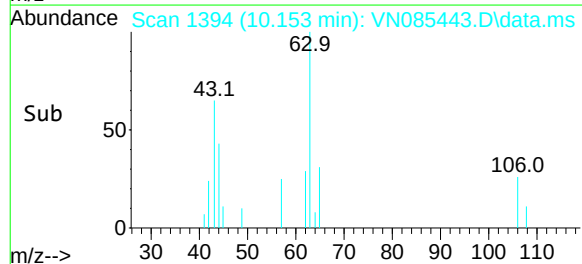
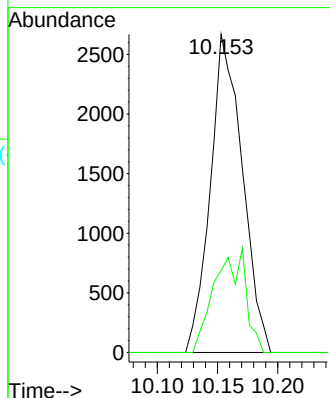
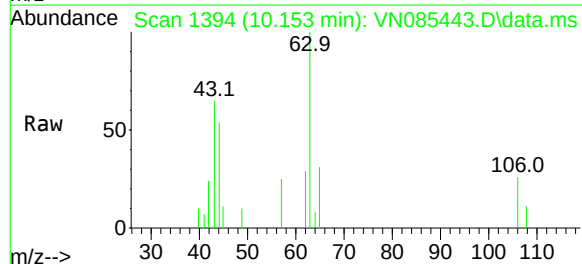
ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 4929
Ion Ratio Lower Upper
63 100
106 31.7 21.6 32.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#59

2-Hexanone

Concen: 4.058 ug/l

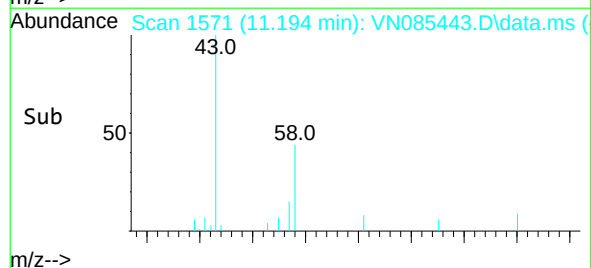
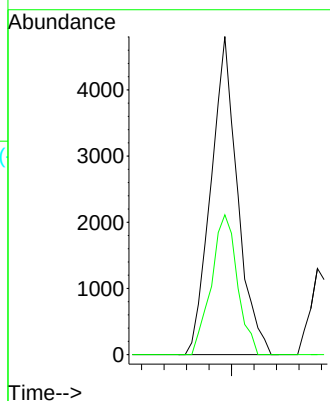
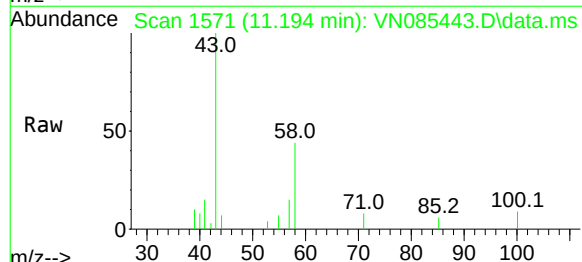
RT: 11.194 min Scan# 1571

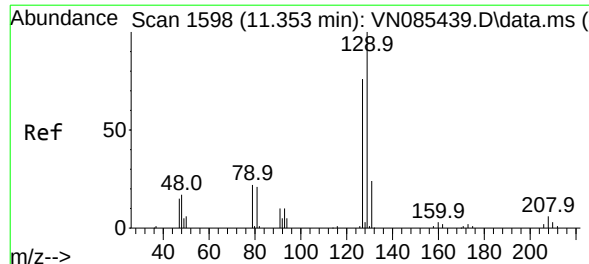
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 7905
Ion Ratio Lower Upper
43 100
58 42.9 26.2 78.6





#60

Dibromochloromethane

Concen: 0.953 ug/l

RT: 11.359 min Scan# 1598

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:129 Resp: 2339

Ion Ratio Lower Upper

129 100

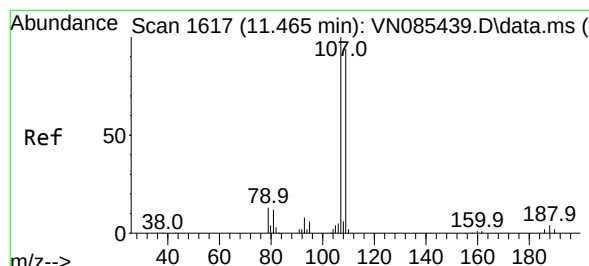
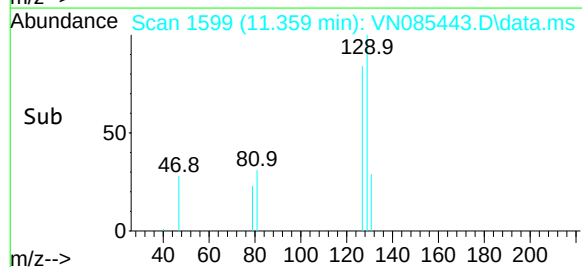
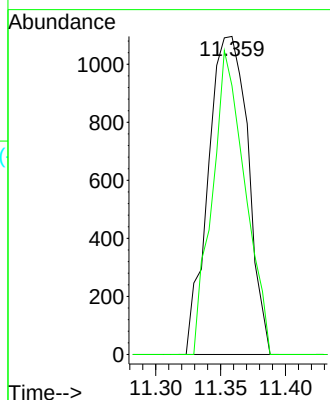
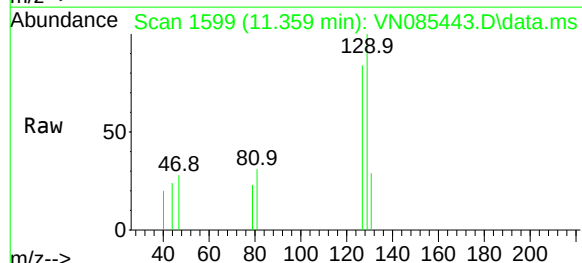
127 78.9 38.6 115.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#61

1,2-Dibromoethane

Concen: 1.000 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN085443.D

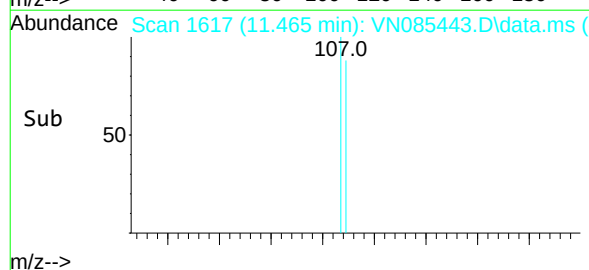
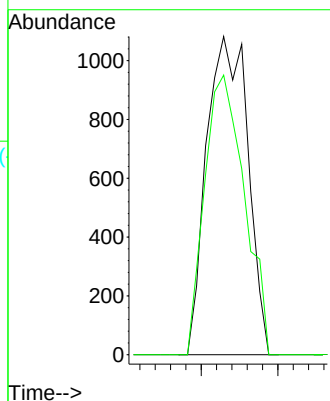
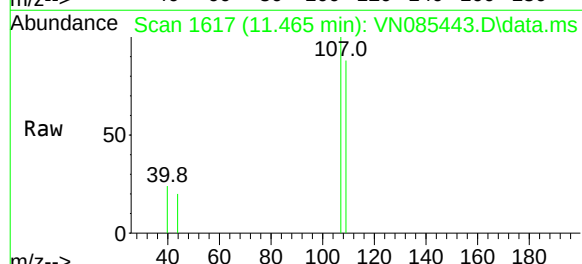
Acq: 14 Jan 2025 17:19

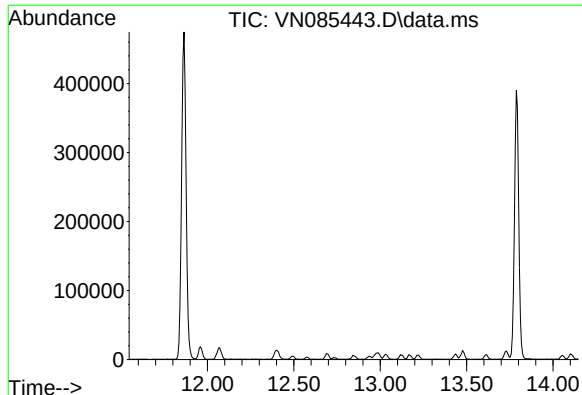
Tgt Ion:107 Resp: 2022

Ion Ratio Lower Upper

107 100

109 84.8 75.9 113.9





#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.85 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion: 95

Sig Exp Ratio

95 100

174 72.5

176 71.2

Instrument :

MSVOA_N

ClientSampleId :

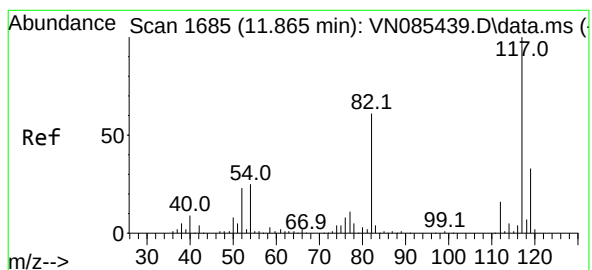
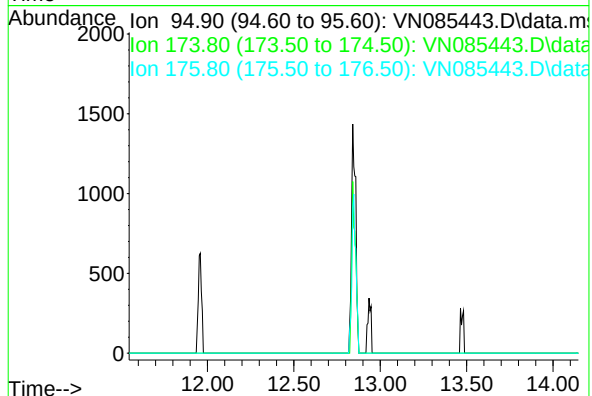
VSTDIC001

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

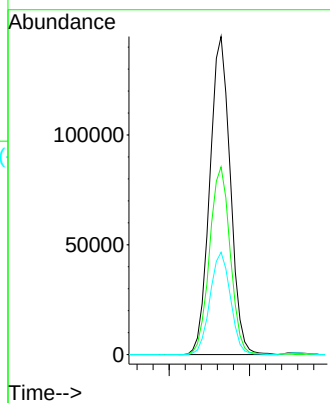
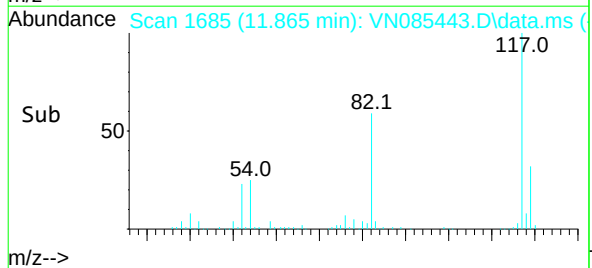
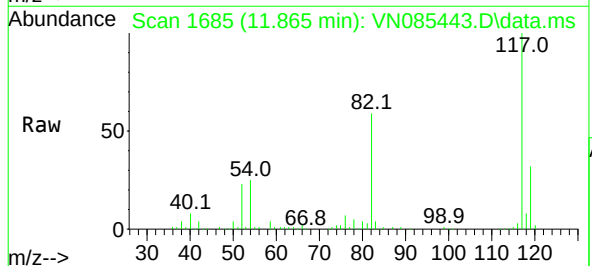
Tgt Ion:117 Resp: 256851

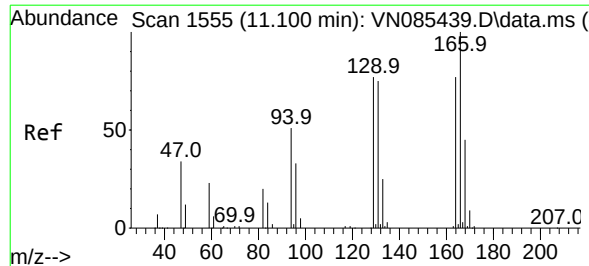
Ion Ratio Lower Upper

117 100

82 59.0 48.6 72.8

119 32.2 26.6 39.8





#64

Tetrachloroethene

Concen: 0.947 ug/l

RT: 11.106 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1658

Ion Ratio Lower Upper

164 100

166 152.1 103.4 155.2

129 128.3 79.2 118.8#

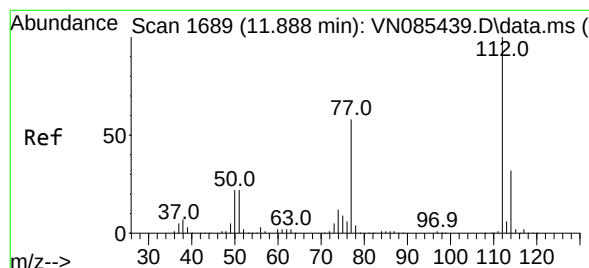
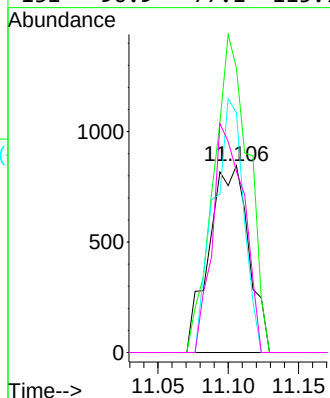
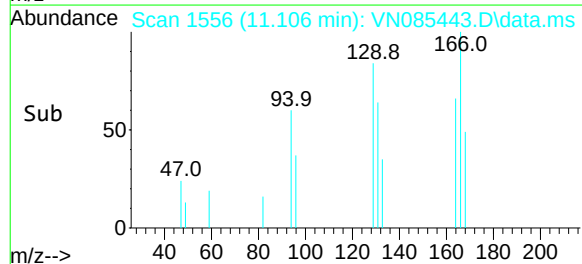
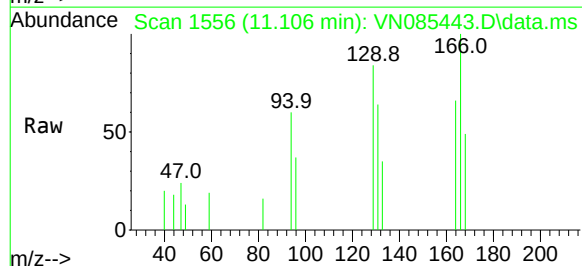
131 96.9 77.1 115.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#65

Chlorobenzene

Concen: 0.960 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085443.D

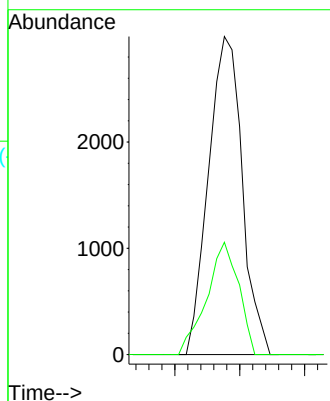
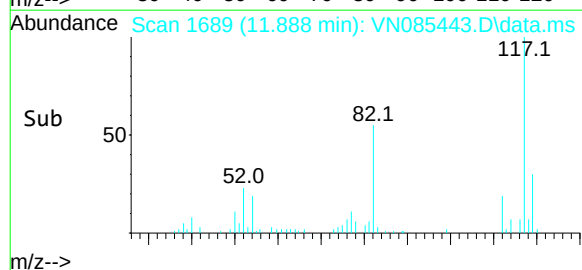
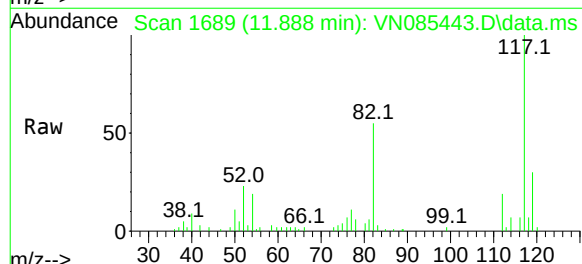
Acq: 14 Jan 2025 17:19

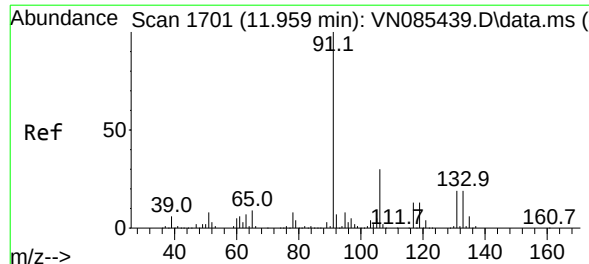
Tgt Ion:112 Resp: 5401

Ion Ratio Lower Upper

112 100

114 35.3 25.3 37.9





#66

1,1,1,2-Tetrachloroethane

Concen: 1.058 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

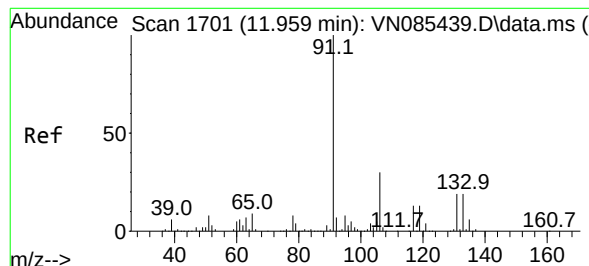
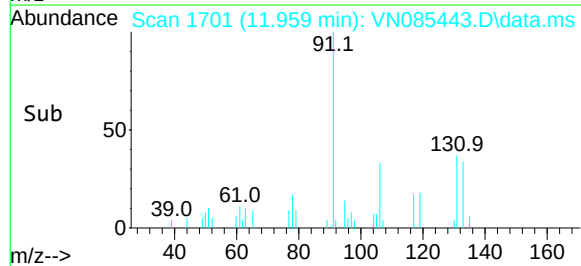
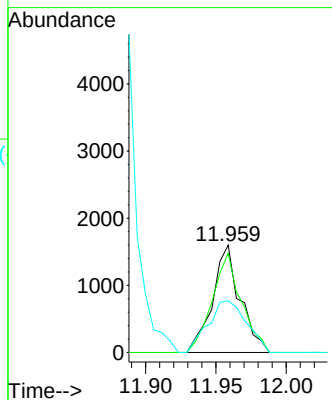
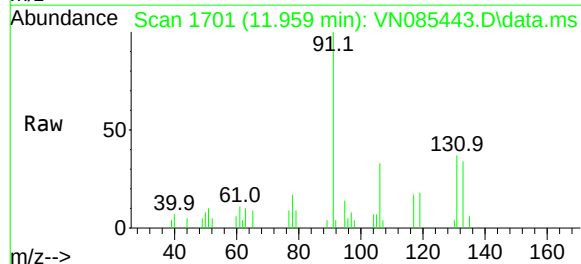
ClientSampleId :

VSTDIC001

Tgt Ion:	131	Resp:	2185
Ion Ratio	Lower	Upper	
131	100		
133	97.7	47.4	142.3
119	0.0	33.1	99.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#67

Ethyl Benzene

Concen: 0.802 ug/l

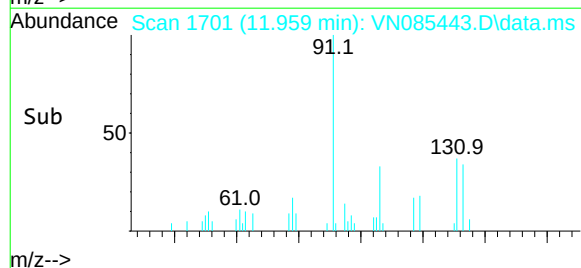
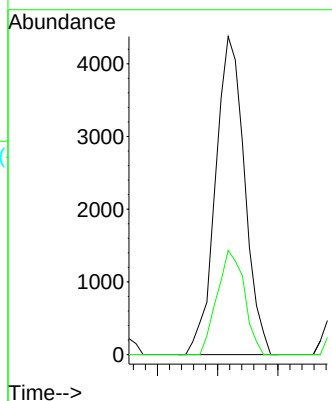
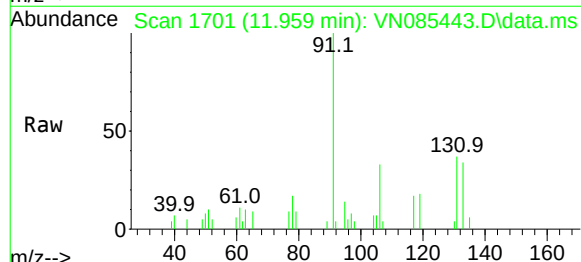
RT: 11.959 min Scan# 1701

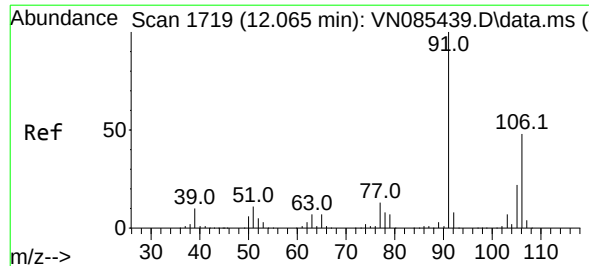
Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	91	Resp:	7347
Ion Ratio	Lower	Upper	
91	100		
106	32.8	23.8	35.8





#68

m/p-Xylenes

Concen: 1.494 ug/l

RT: 12.070 min Scan# 1719

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:106 Resp: 5059

Ion Ratio Lower Upper

106 100

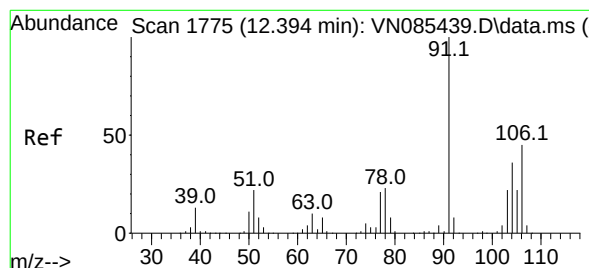
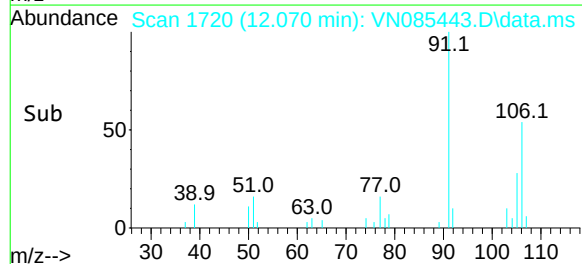
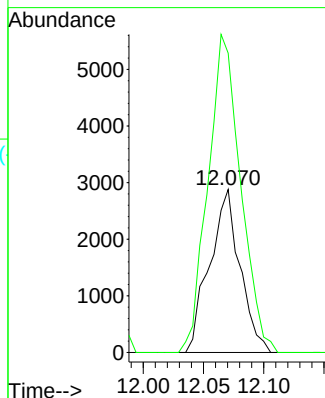
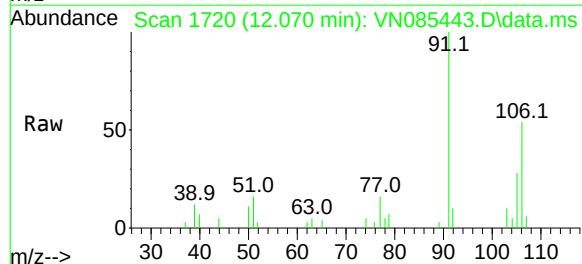
91 209.3 167.7 251.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#69

o-Xylene

Concen: 0.766 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085443.D

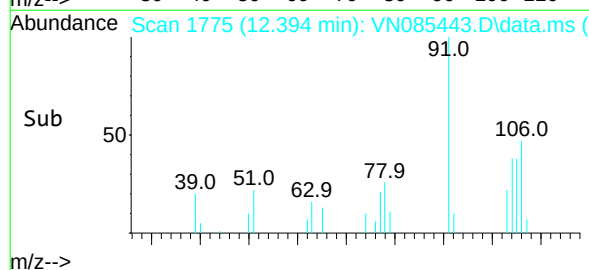
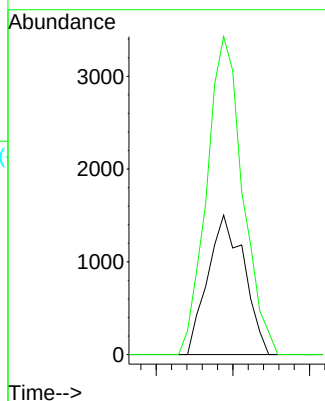
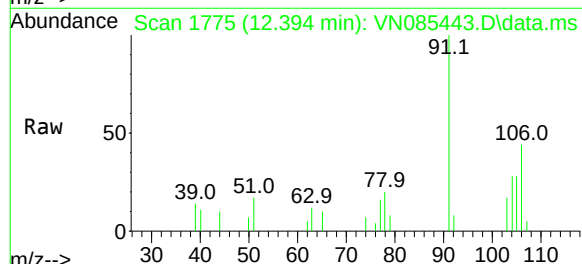
Acq: 14 Jan 2025 17:19

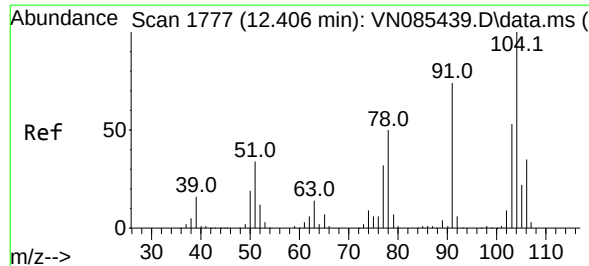
Tgt Ion:106 Resp: 2478

Ion Ratio Lower Upper

106 100

91 225.4 110.4 331.2





#70

Styrene

Concen: 0.712 ug/l

RT: 12.406 min Scan# 17

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

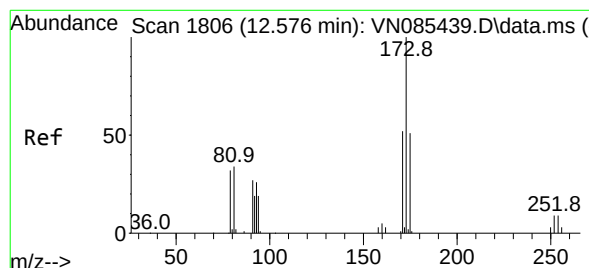
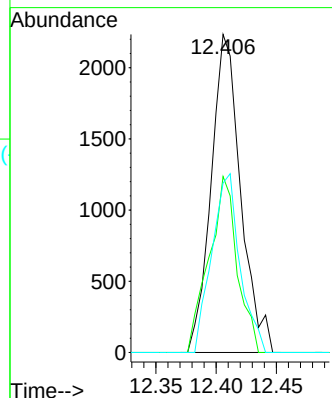
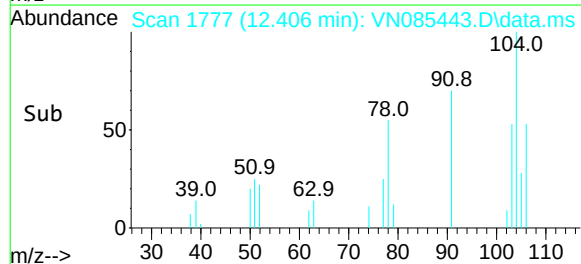
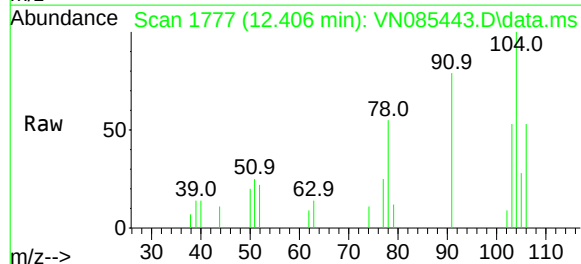
ClientSampleId :

VSTDICC001

Tgt Ion:	104	Resp:	3812
Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.5	63.7
103	53.7	43.8	65.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#71

Bromoform

Concen: 0.818 ug/l

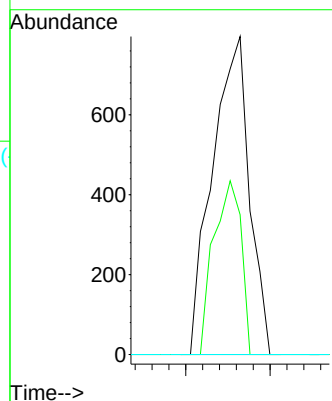
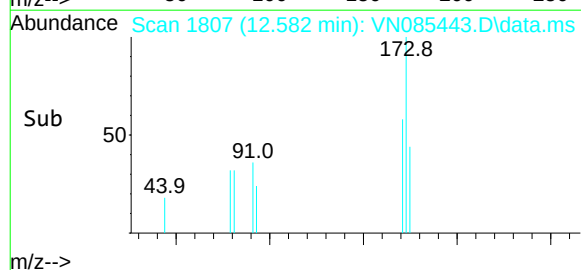
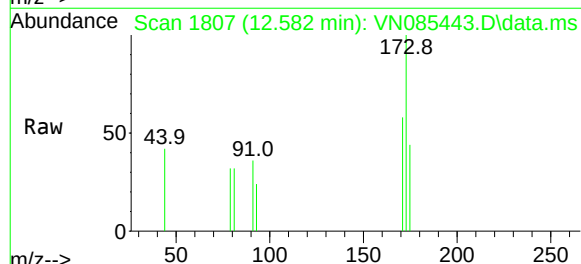
RT: 12.582 min Scan# 1807

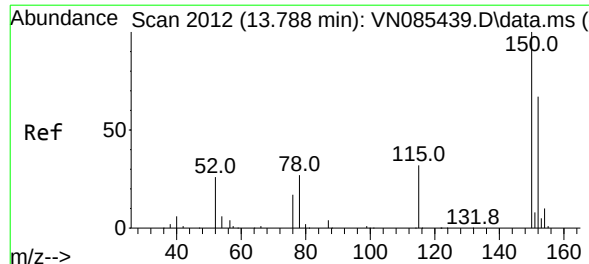
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	173	Resp:	1208
Ion	Ratio	Lower	Upper
173	100		
175	40.7	24.4	73.2
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:152 Resp: 99539

Ion Ratio Lower Upper

152 100

115 63.8 31.1 93.3

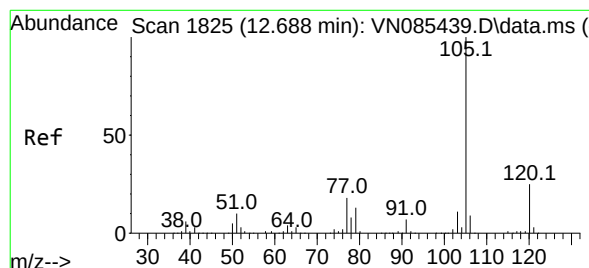
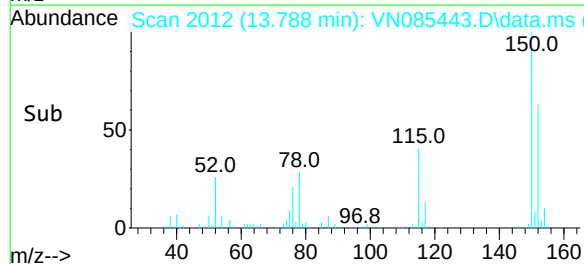
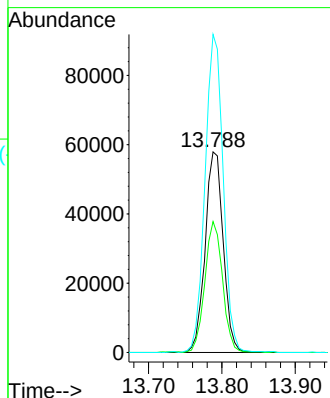
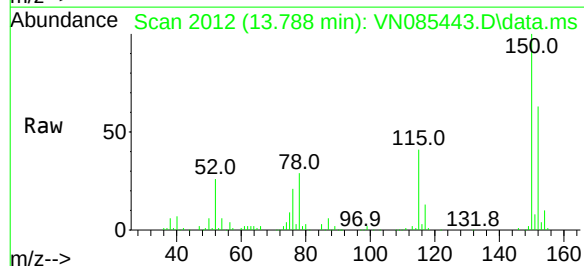
150 158.5 0.0 343.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#73

Isopropylbenzene

Concen: 0.820 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. -0.000 min

Lab File: VN085443.D

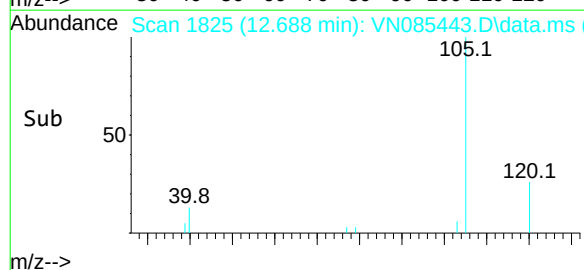
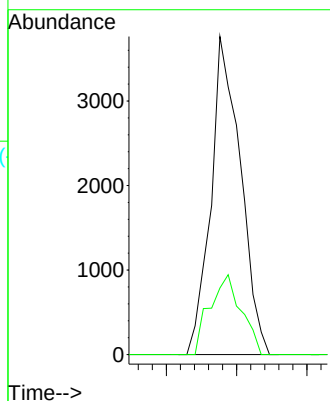
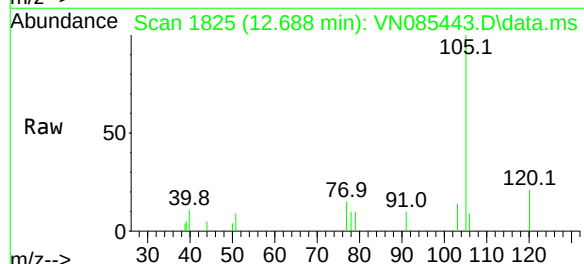
Acq: 14 Jan 2025 17:19

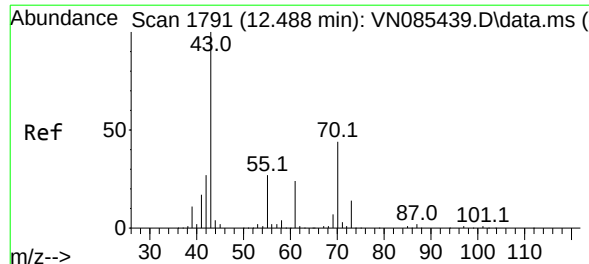
Tgt Ion:105 Resp: 5506

Ion Ratio Lower Upper

105 100

120 26.7 12.8 38.3





#74

N-ethyl acetate

Concen: 0.899 ug/l

RT: 12.494 min Scan# 1791

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

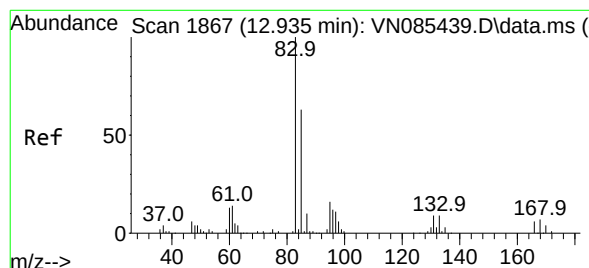
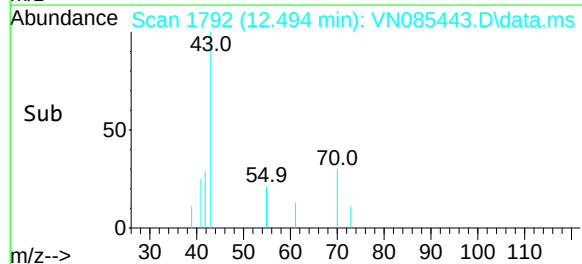
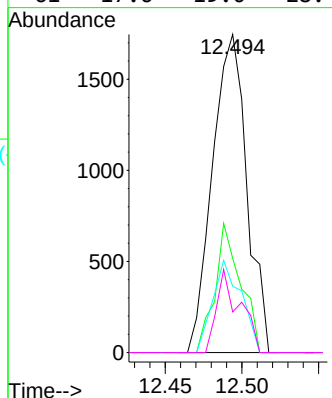
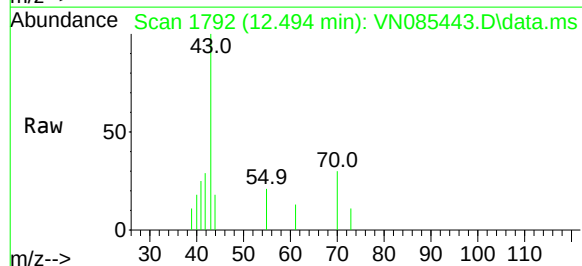
ClientSampleId :

VSTDIC001

Tgt Ion:	43	Resp:	2716
Ion	Ratio	Lower	Upper
43	100		
70	30.4	34.0	51.0#
55	24.2	21.4	32.2
61	17.6	19.0	28.4#

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#75

1,1,2,2-Tetrachloroethane

Concen: 1.102 ug/l

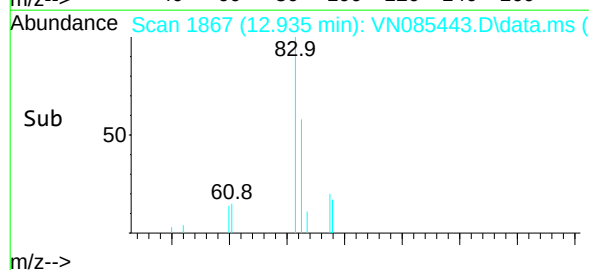
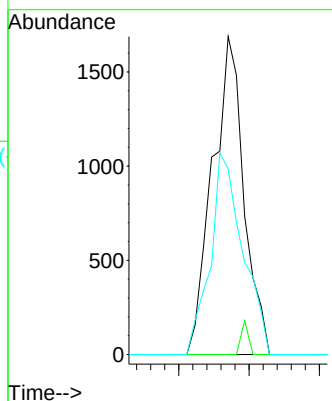
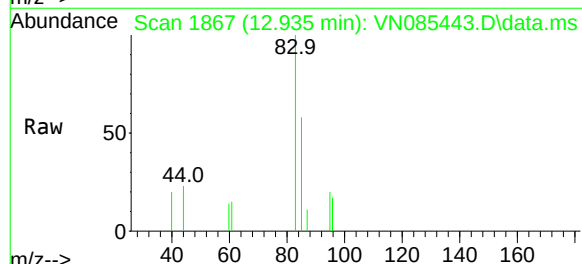
RT: 12.935 min Scan# 1867

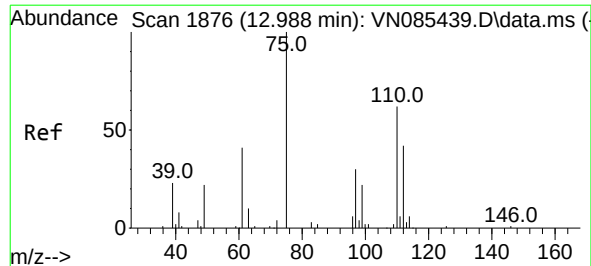
Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	83	Resp:	2616
Ion	Ratio	Lower	Upper
83	100		
131	2.4	4.8	14.4#
85	65.7	32.2	96.6





#76

1,2,3-Trichloropropane

Concen: 1.088 ug/l m

RT: 12.982 min Scan# 1876

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2198

Ion Ratio Lower Upper

75 100

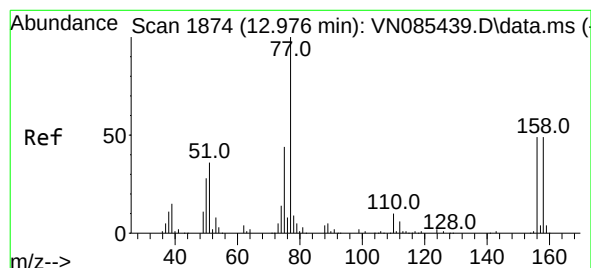
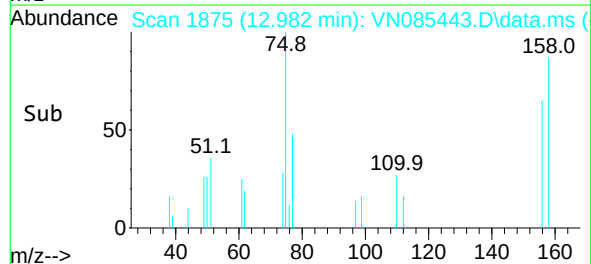
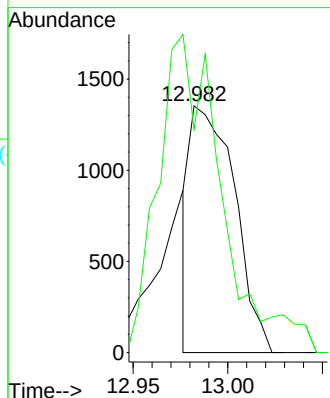
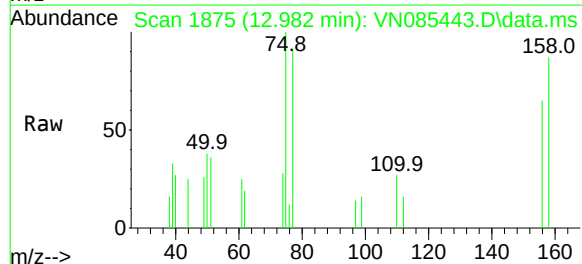
77 184.2 109.7 329.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#77

Bromobenzene

Concen: 0.987 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

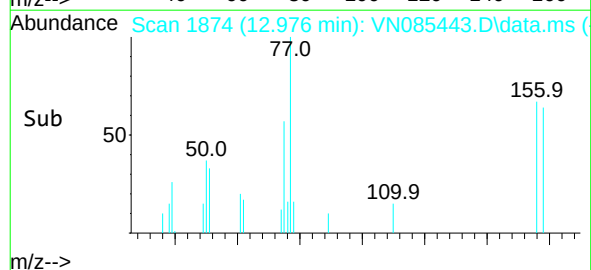
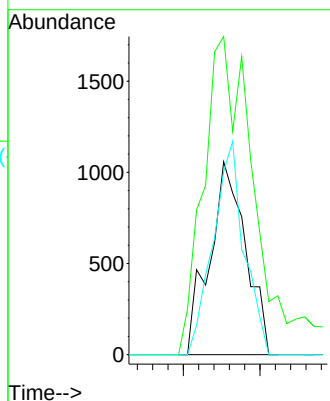
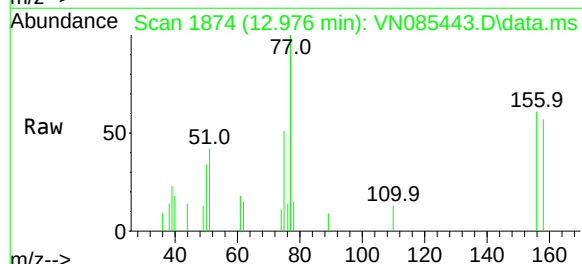
Tgt Ion:156 Resp: 1733

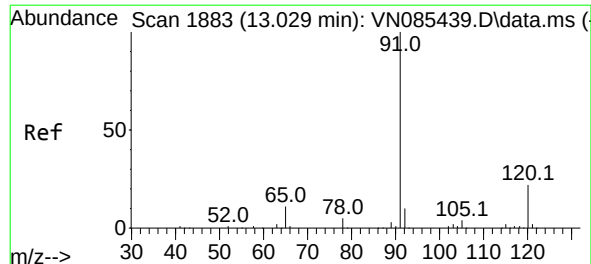
Ion Ratio Lower Upper

156 100

77 233.6 114.1 342.4

158 94.9 48.9 146.8





#78

n-propylbenzene

Concen: 0.808 ug/l

RT: 13.029 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 6424

Ion Ratio Lower Upper

91 100

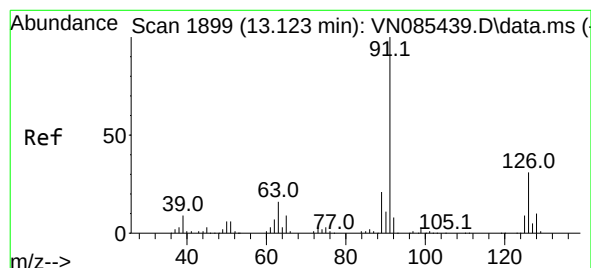
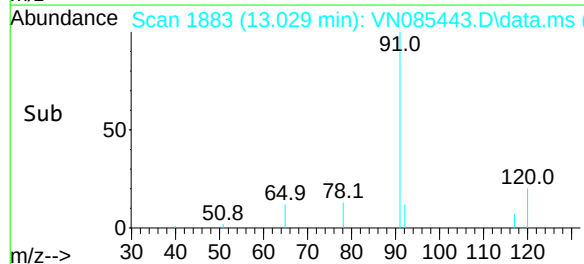
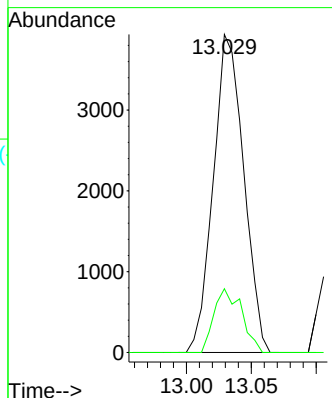
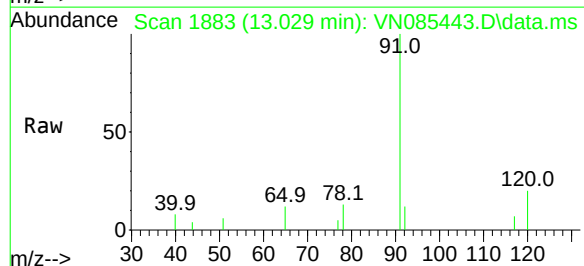
120 18.2 10.9 32.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#79

2-Chlorotoluene

Concen: 0.871 ug/l

RT: 13.117 min Scan# 1898

Delta R.T. -0.006 min

Lab File: VN085443.D

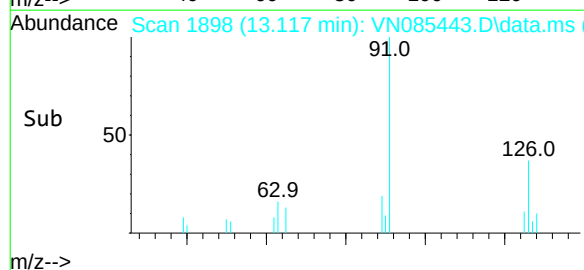
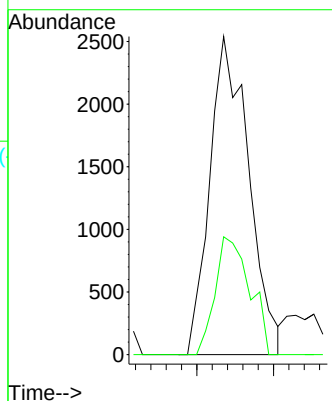
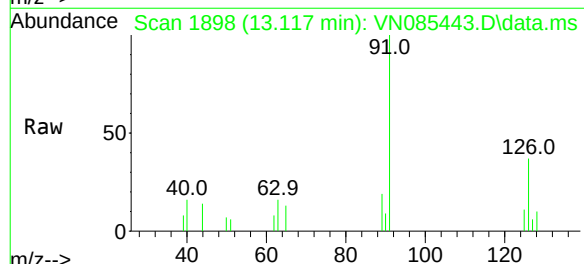
Acq: 14 Jan 2025 17:19

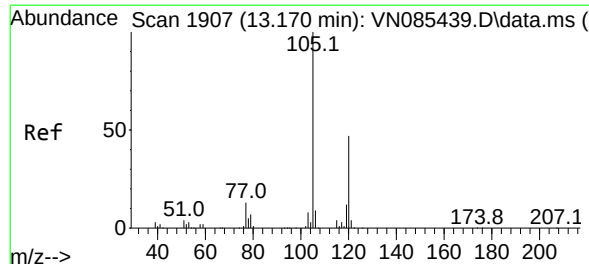
Tgt Ion: 91 Resp: 4483

Ion Ratio Lower Upper

91 100

126 32.9 15.7 47.1





#80

1,3,5-Trimethylbenzene

Concen: 0.775 ug/l

RT: 13.165 min Scan# 19

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 105 Resp: 4301

Ion Ratio Lower Upper

105 100

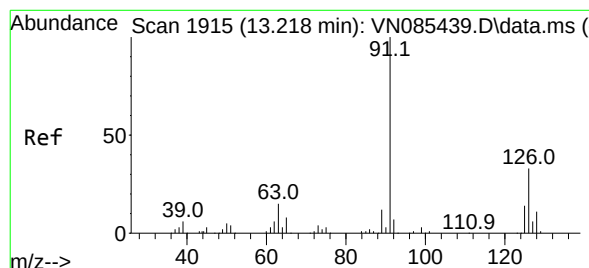
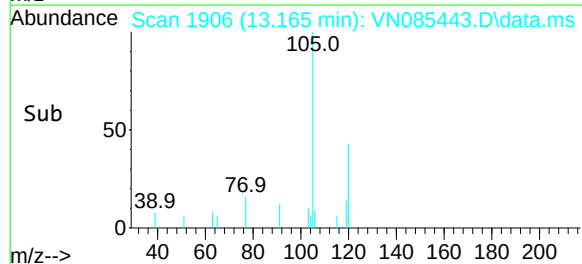
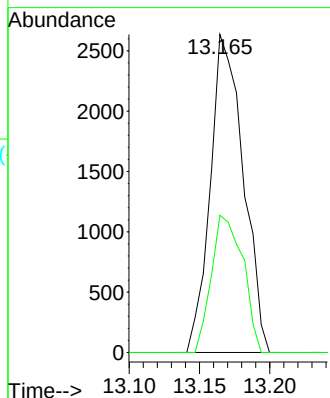
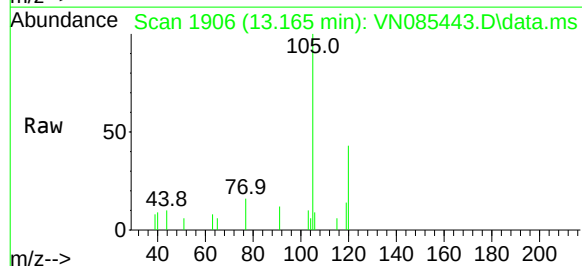
120 41.2 23.9 71.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 0.833 ug/l

RT: 13.223 min Scan# 1916

Delta R.T. 0.006 min

Lab File: VN085443.D

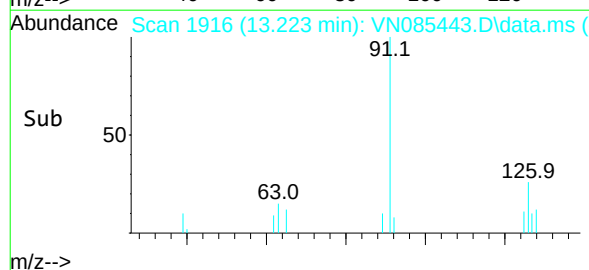
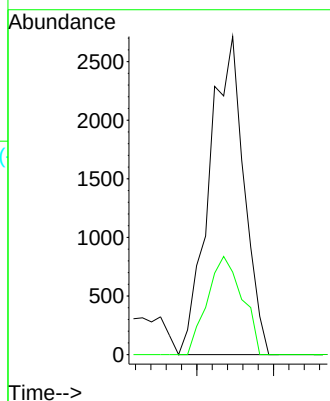
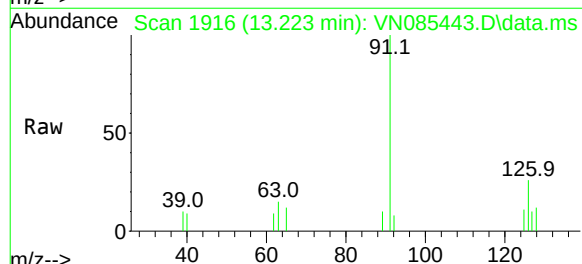
Acq: 14 Jan 2025 17:19

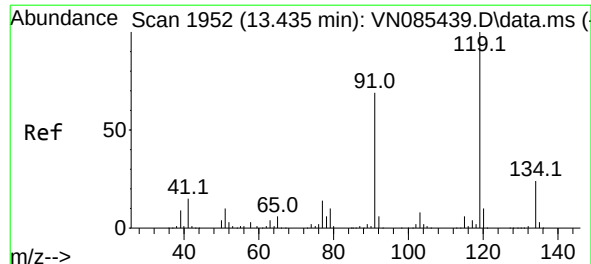
Tgt Ion: 91 Resp: 4268

Ion Ratio Lower Upper

91 100

126 31.0 15.9 47.7





#83

tert-Butylbenzene

Concen: 0.805 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

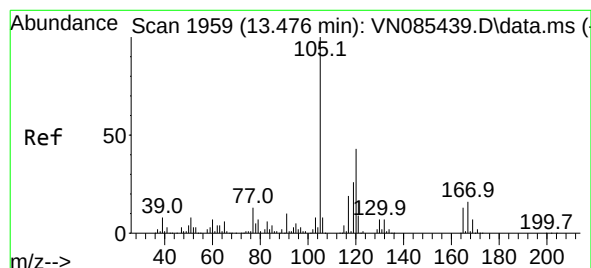
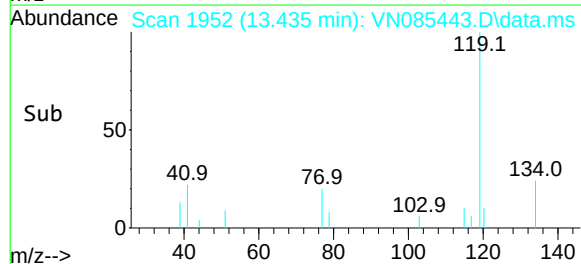
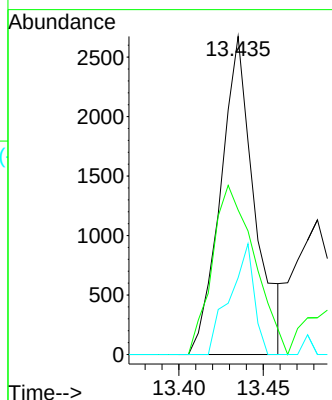
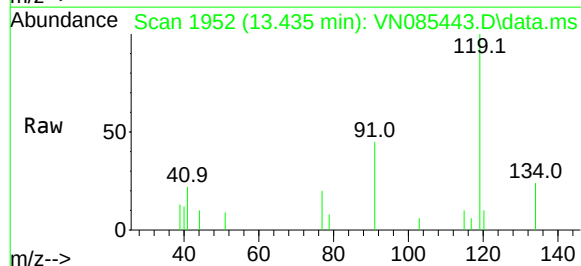
ClientSampleId :

VSTDIC001

Tgt Ion:	119	Resp:	3753
Ion	Ratio	Lower	Upper
119	100		
91	65.9	35.1	105.3
134	24.9	12.0	36.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.679 ug/l

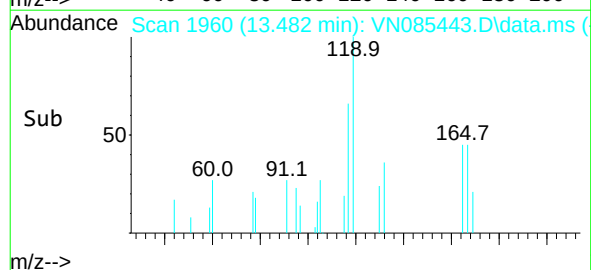
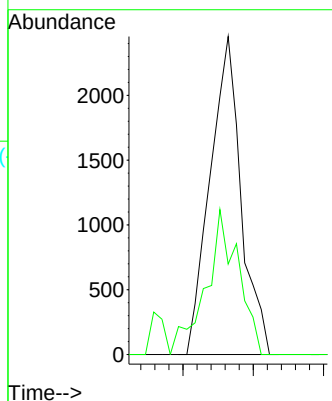
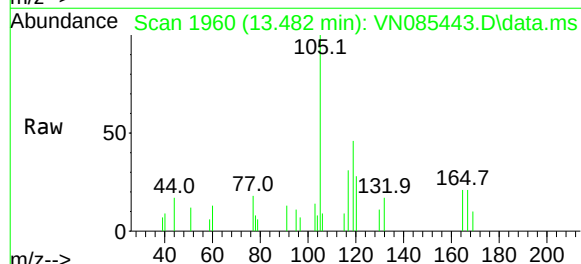
RT: 13.482 min Scan# 1960

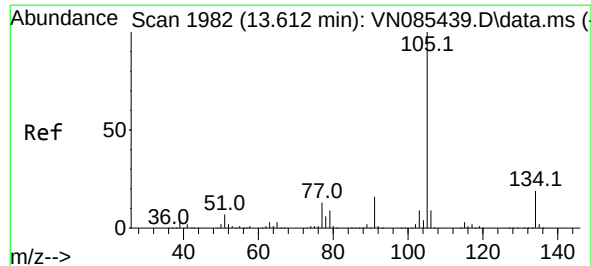
Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	105	Resp:	3758
Ion	Ratio	Lower	Upper
105	100		
120	47.7	21.6	65.0





#85

sec-Butylbenzene

Concen: 0.714 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 4614

Ion Ratio Lower Upper

105 100

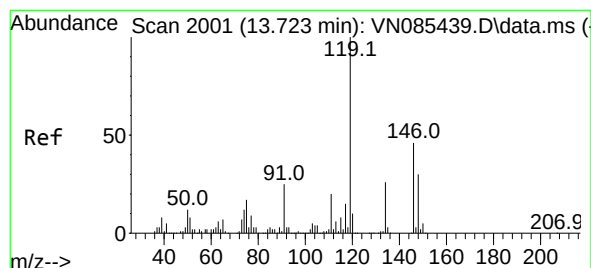
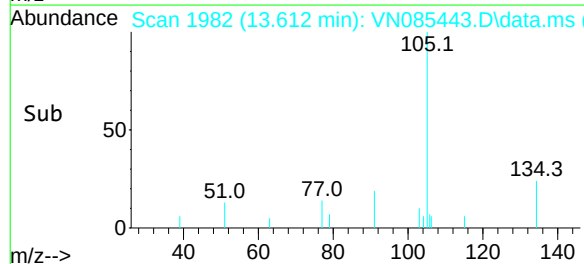
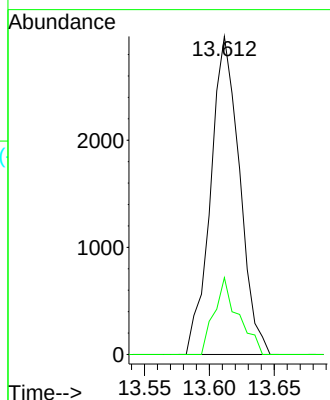
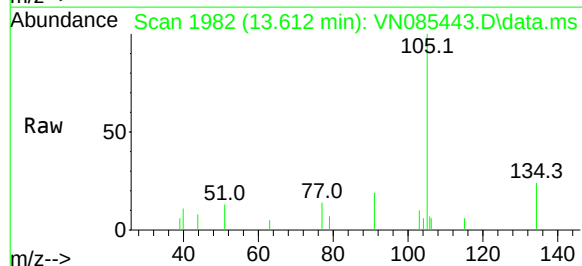
134 19.9 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 0.716 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

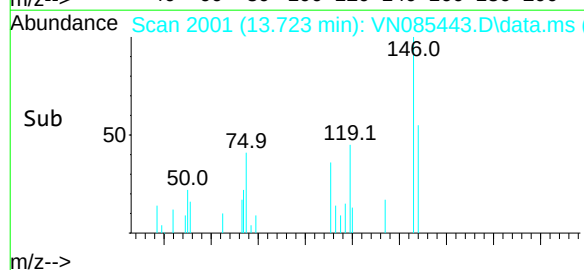
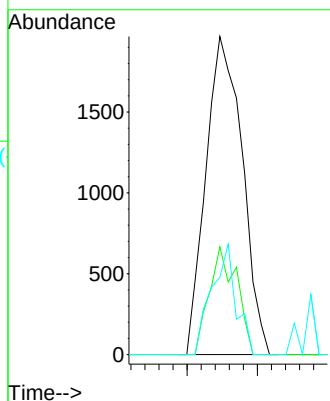
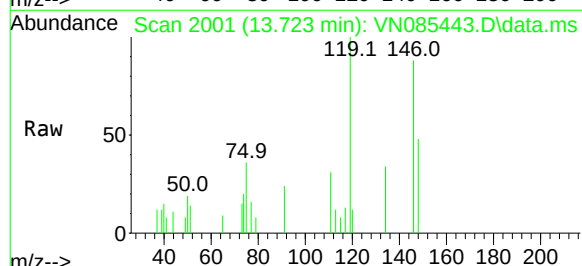
Tgt Ion:119 Resp: 3538

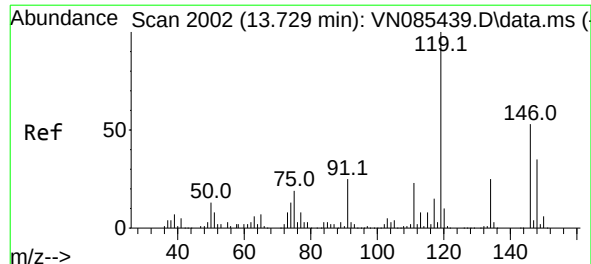
Ion Ratio Lower Upper

119 100

134 25.6 12.7 38.0

91 23.2 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 0.940 ug/l

RT: 13.723 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

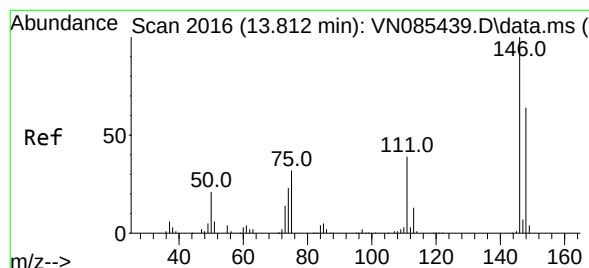
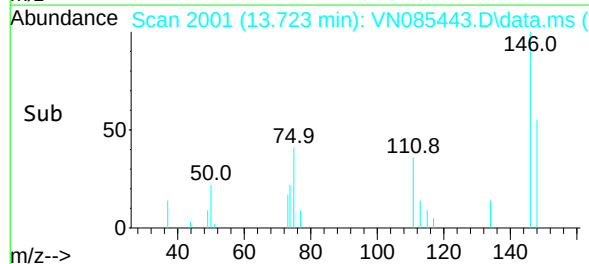
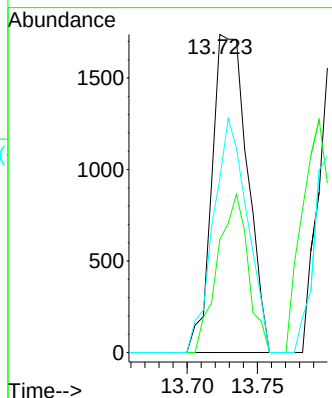
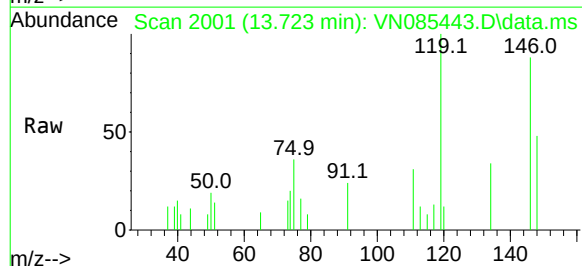
VSTDIC001

Tgt	Ion	146	Resp:	3038
Ion	Ratio	Lower	Upper	
146	100			
111	43.0	21.4	64.3	
148	70.9	32.3	96.9	

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 1.050 ug/l m

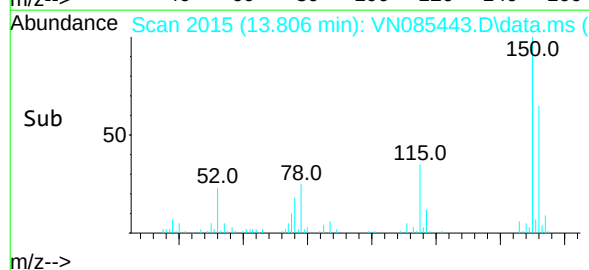
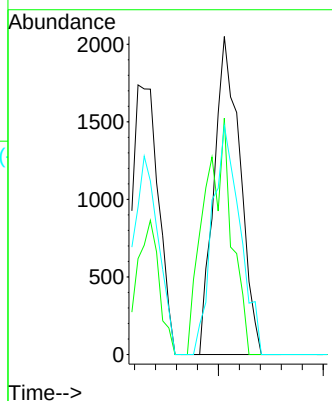
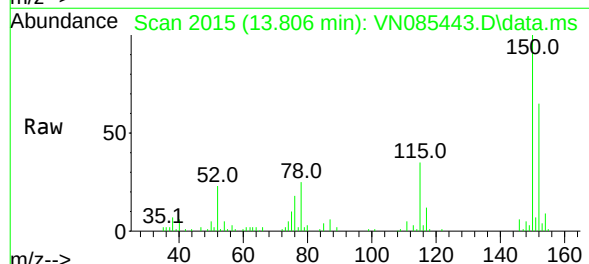
RT: 13.806 min Scan# 2015

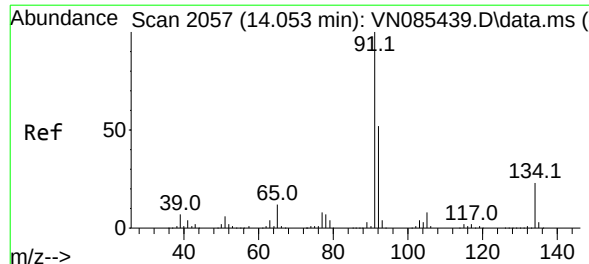
Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt	Ion	146	Resp:	3517
Ion	Ratio	Lower	Upper	
146	100			
111	37.2	21.3	63.7	
148	61.2	32.4	97.0	





#89

n-Butylbenzene

Concen: 0.761 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

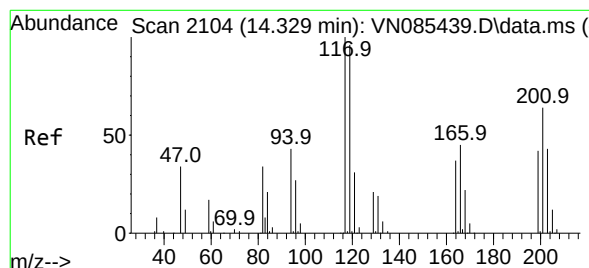
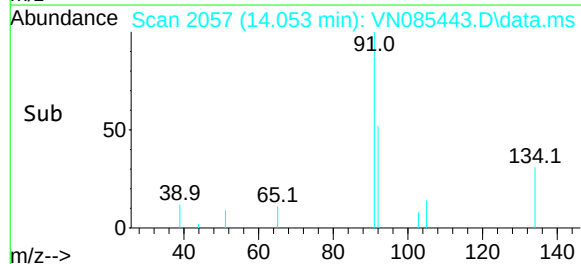
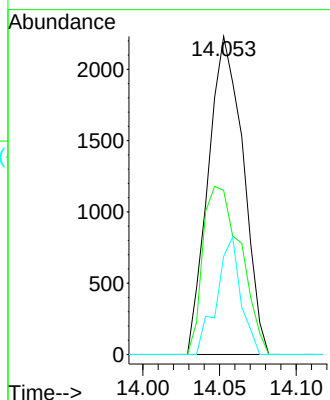
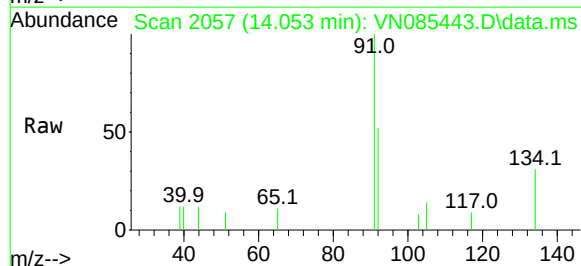
ClientSampleId :

VSTDIC001

Tgt Ion:	91	Resp:	3527
Ion Ratio	Lower	Upper	
91	100		
92	57.2	25.8	77.3
134	25.5	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 1.102 ug/l

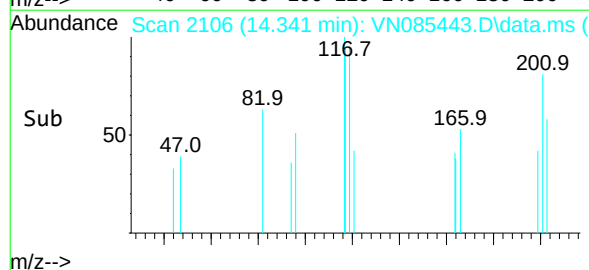
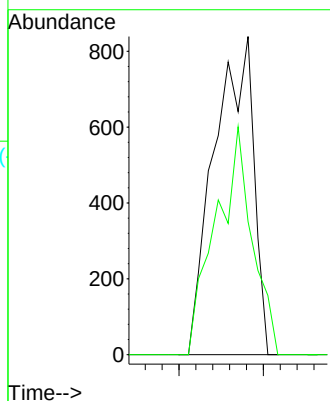
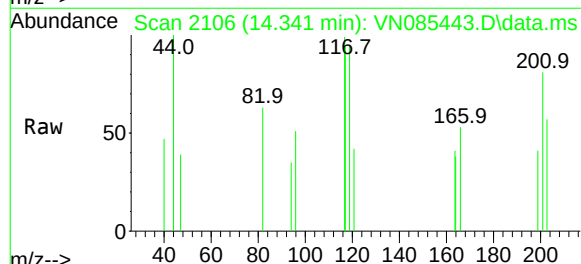
RT: 14.341 min Scan# 2106

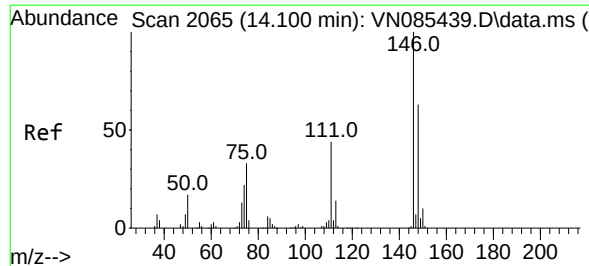
Delta R.T. 0.012 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	117	Resp:	1355
Ion Ratio	Lower	Upper	
117	100		
201	66.5	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 1.090 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

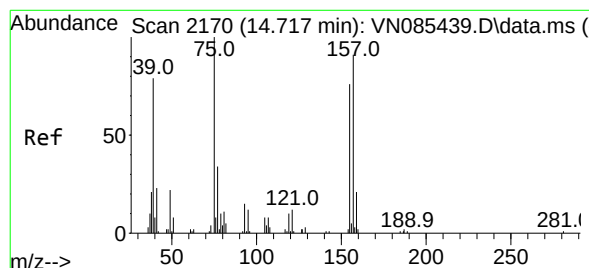
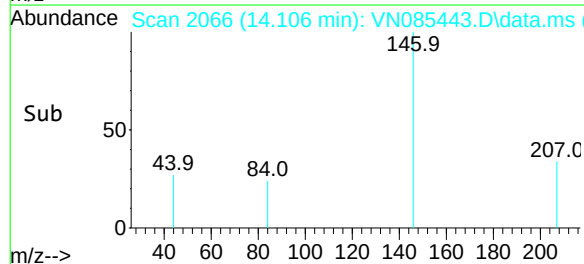
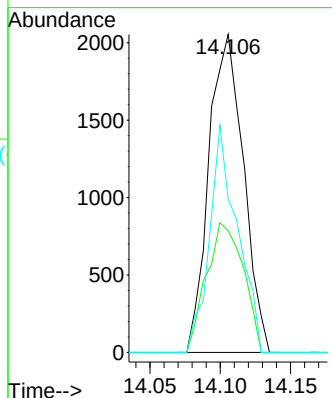
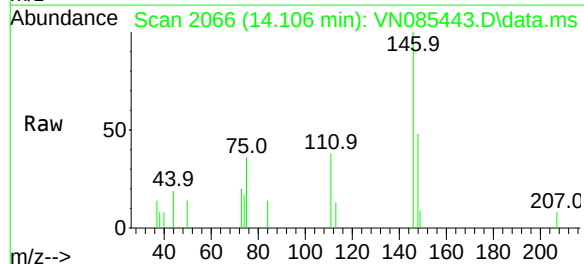
Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	3515
Ion Ratio	Lower	Upper	
146	100		
111	43.4	21.7	65.1
148	57.8	31.4	94.2

Manual Integrations
APPROVEDReviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

#92

1,2-Dibromo-3-Chloropropane

Concen: 0.928 ug/l

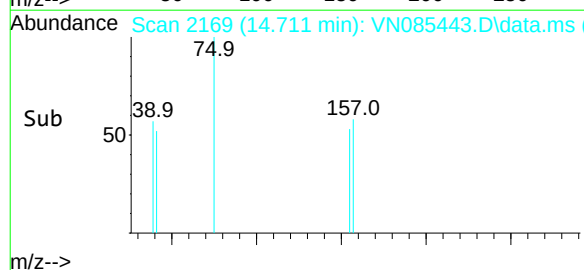
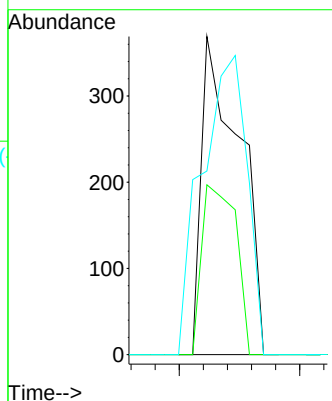
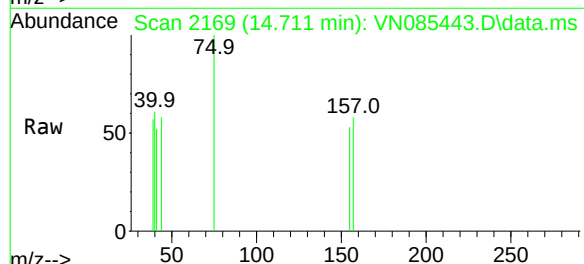
RT: 14.711 min Scan# 2169

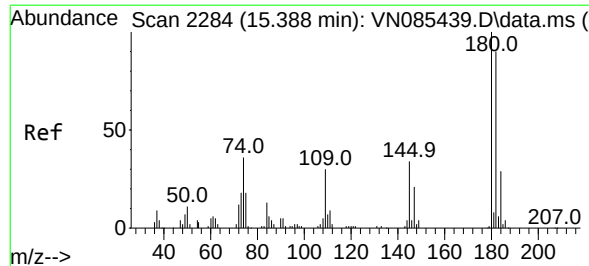
Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	75	Resp:	402
Ion Ratio	Lower	Upper	
75	100		
155	48.0	36.4	109.2
157	112.7	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 0.874 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:180 Resp: 1310

Ion Ratio Lower Upper

180 100

182 106.3 46.8 140.3

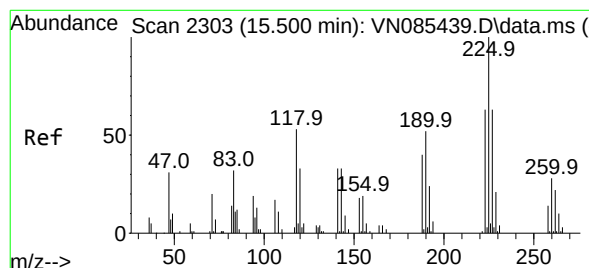
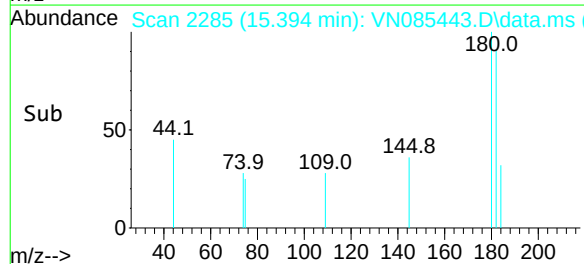
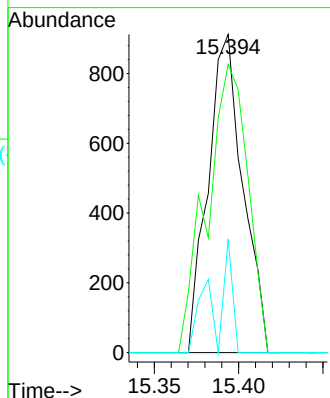
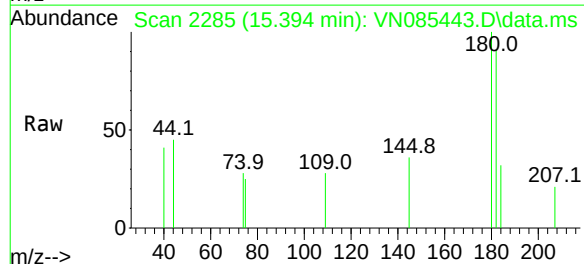
145 9.7 16.0 48.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

Concen: 1.033 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

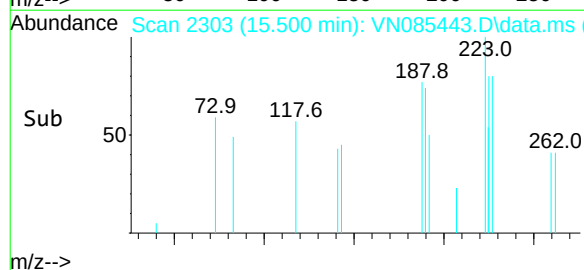
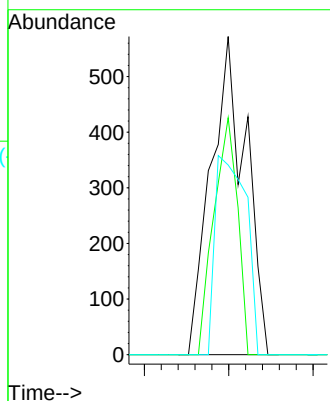
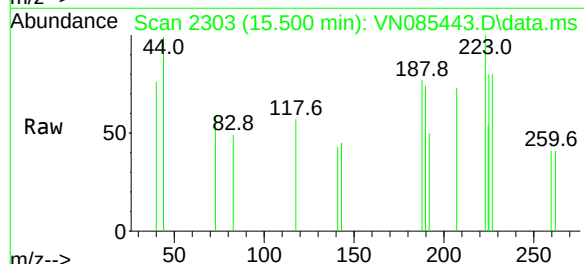
Tgt Ion:225 Resp: 822

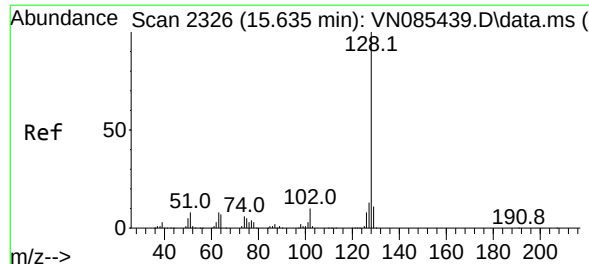
Ion Ratio Lower Upper

225 100

223 50.7 30.7 92.1

227 55.7 30.9 92.5





#95

Naphthalene

Concen: 0.941 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

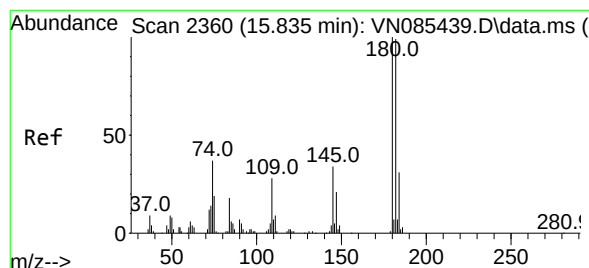
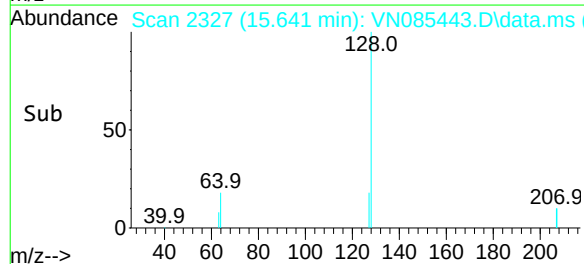
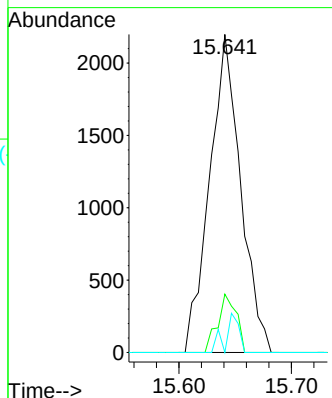
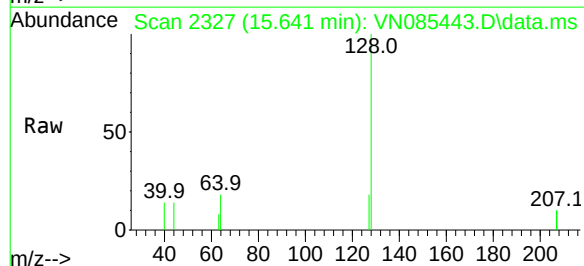
ClientSampleId :

VSTDIC001

Tgt Ion:	128	Resp:	4210
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	16.0
129	5.3	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 0.985 ug/l

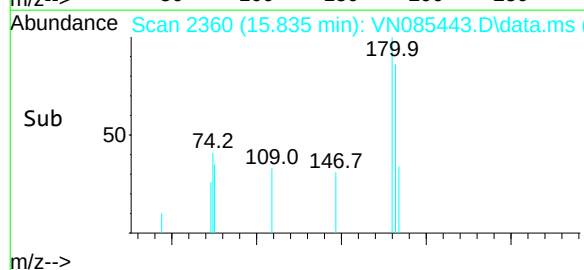
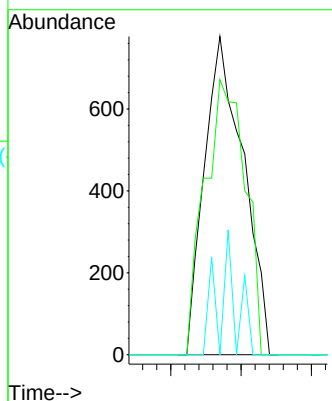
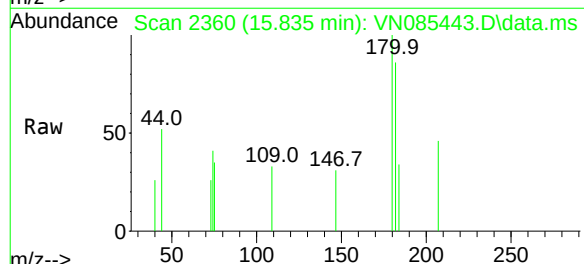
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:	180	Resp:	1494
Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.4	142.2
145	11.8	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	219757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	370487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158525	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	176594	49.782	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.560%
35) Dibromofluoromethane	8.165	113	130487	50.768	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.540%
50) Toluene-d8	10.565	98	477630	52.302	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.600%
62) 4-Bromofluorobenzene	12.847	95	165249	52.899	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	130242	43.772	ug/l	100
3) Chloromethane	2.360	50	138152	42.883	ug/l	99
4) Vinyl Chloride	2.513	62	138316	42.715	ug/l	99
5) Bromomethane	2.954	94	80019	40.910	ug/l	91
6) Chloroethane	3.124	64	86837	42.299	ug/l	99
7) Trichlorofluoromethane	3.501	101	206526	43.956	ug/l	99
8) Diethyl Ether	3.959	74	69545	42.846	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	118310	44.706	ug/l	98
10) Methyl Iodide	4.595	142	140190	46.259	ug/l	98
11) Tert butyl alcohol	5.518	59	83933	206.633	ug/l	99
12) 1,1-Dichloroethene	4.342	96	106880	45.317	ug/l	98
13) Acrolein	4.177	56	135720	244.765	ug/l	99
14) Allyl chloride	5.024	41	170308	44.501	ug/l	99
15) Acrylonitrile	5.712	53	294062	227.920	ug/l	99
16) Acetone	4.418	43	245248	213.971	ug/l	98
17) Carbon Disulfide	4.712	76	300215	41.342	ug/l	100
18) Methyl Acetate	5.018	43	156938	45.028	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	365819	47.768	ug/l	100
20) Methylene Chloride	5.271	84	122059	43.017	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	112597	44.672	ug/l	93
22) Diisopropyl ether	6.665	45	399206	46.996	ug/l	99
23) Vinyl Acetate	6.601	43	1471068	247.459	ug/l	100
24) 1,1-Dichloroethane	6.571	63	228489	44.114	ug/l	98
25) 2-Butanone	7.477	43	386125	228.924	ug/l	100
26) 2,2-Dichloropropane	7.489	77	199303	47.593	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	134920	45.446	ug/l	98
28) Bromochloromethane	7.812	49	106323	44.122	ug/l	100
29) Tetrahydrofuran	7.836	42	255650	239.065	ug/l	99
30) Chloroform	7.965	83	235923	44.071	ug/l	98
31) Cyclohexane	8.253	56	193034	42.878	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	208172	44.332	ug/l	99
36) 1,1-Dichloropropene	8.365	75	161834	44.863	ug/l	98
37) Ethyl Acetate	7.559	43	160656	44.123	ug/l	97
38) Carbon Tetrachloride	8.359	117	183592	44.456	ug/l	99
39) Methylcyclohexane	9.600	83	168431	49.687	ug/l	98
40) Benzene	8.600	78	494871	45.657	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	89326	47.155	ug/l	99
42) 1,2-Dichloroethane	8.665	62	185663	45.481	ug/l	100
43) Isopropyl Acetate	8.683	43	265107	45.440	ug/l	99
44) Trichloroethene	9.347	130	110058	43.622	ug/l	96
45) 1,2-Dichloropropane	9.618	63	123876	44.744	ug/l	97
46) Dibromomethane	9.700	93	88325	44.214	ug/l	98
47) Bromodichloromethane	9.889	83	185808	45.655	ug/l	99
48) Methyl methacrylate	9.677	41	131142	49.948	ug/l	97
49) 1,4-Dioxane	9.689	88	35051	792.760	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	832426	245.877	ug/l	99
52) Toluene	10.630	92	301911	48.073	ug/l	99
53) t-1,3-Dichloropropene	10.830	75	183680	47.757	ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	196307	47.783	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	114757	46.173	ug/l	97
56) Ethyl methacrylate	10.871	69	182170	43.762	ug/l	98
57) 1,3-Dichloropropane	11.159	76	202583	46.877	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	403949	256.116	ug/l	99
59) 2-Hexanone	11.194	43	598433	251.213	ug/l	100
60) Dibromochloromethane	11.353	129	137831	45.935	ug/l	99
61) 1,2-Dibromoethane	11.465	107	110926	44.837	ug/l	100
64) Tetrachloroethene	11.100	164	98211	44.886	ug/l	96
65) Chlorobenzene	11.888	112	322723	45.901	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	115379	44.712	ug/l	99
67) Ethyl Benzene	11.959	91	577059	50.391	ug/l	97
68) m/p-Xylenes	12.071	106	437367	103.341	ug/l	100
69) o-Xylene	12.394	106	210698	52.093	ug/l	99
70) Styrene	12.406	104	355459	53.103	ug/l	100
71) Bromoform	12.577	173	90693	49.119	ug/l #	100
73) Isopropylbenzene	12.694	105	534428	49.951	ug/l	99
74) N-amyl acetate	12.488	43	234342	48.730	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	164882	43.627	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	134976m	41.891	ug/l	
77) Bromobenzene	12.977	156	128968	46.138	ug/l	97
78) n-propylbenzene	13.029	91	645977	51.001	ug/l	100
79) 2-Chlorotoluene	13.124	91	392404	47.870	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	456048	51.604	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	58623m	49.226	ug/l	
82) 4-Chlorotoluene	13.218	91	398110	48.776	ug/l	100
83) tert-Butylbenzene	13.435	119	378478	50.997	ug/l	98
84) 1,2,4-Trimethylbenzene	13.477	105	457340	51.922	ug/l	100
85) sec-Butylbenzene	13.612	105	532578	51.777	ug/l	100
86) p-Isopropyltoluene	13.729	119	440284	47.795	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	236387	45.920	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	235319	44.102	ug/l	99
89) n-Butylbenzene	14.053	91	373227	50.578	ug/l	99
90) Hexachloroethane	14.329	117	88538	45.215	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	231646	45.113	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	31899	46.221	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	109157	45.739	ug/l	98
94) Hexachlorobutadiene	15.500	225	53358	42.112	ug/l	99
95) Naphthalene	15.641	128	335535	47.116	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	107583	44.551	ug/l	99

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Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations
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Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

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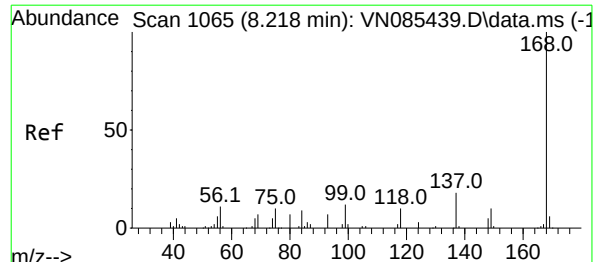
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Manual Integrations

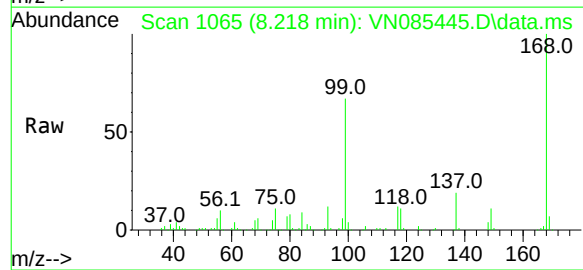
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

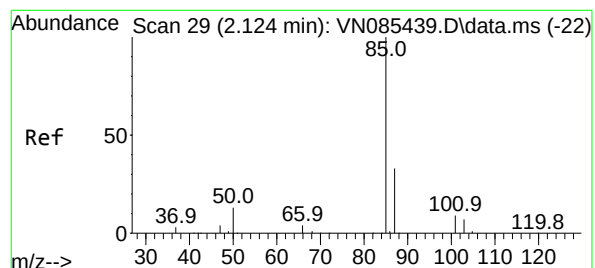
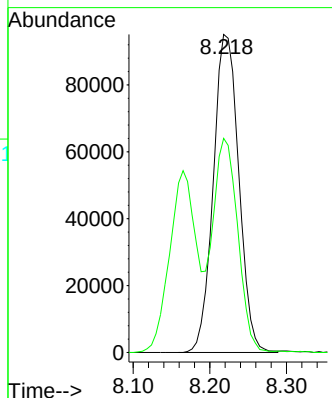
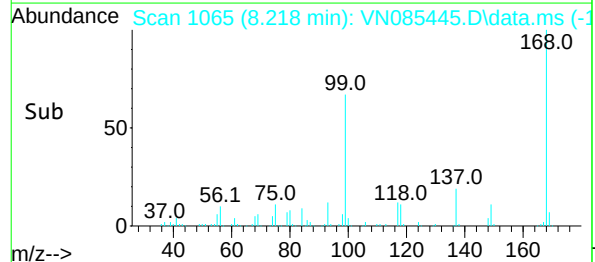
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



Tgt Ion: 168 Resp: 219757
Ion Ratio Lower Upper
168 100
99 66.9 53.6 80.4

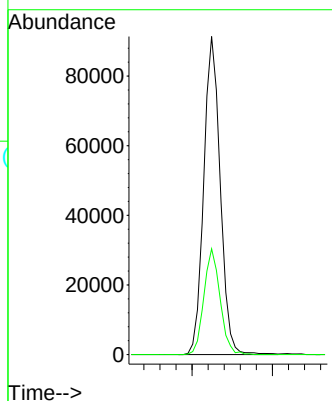
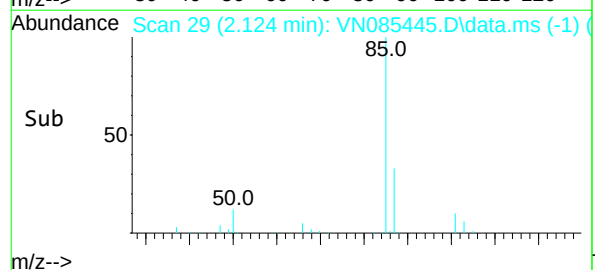
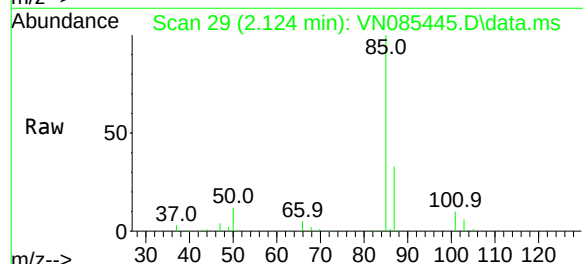
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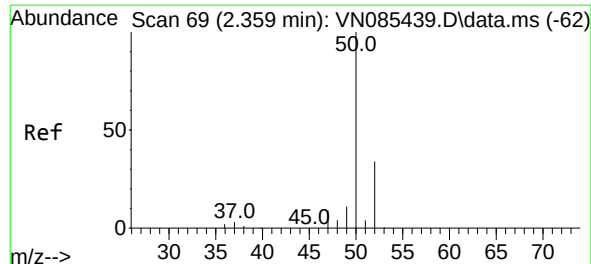
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 43.772 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 85 Resp: 130242
Ion Ratio Lower Upper
85 100
87 33.2 16.7 50.1





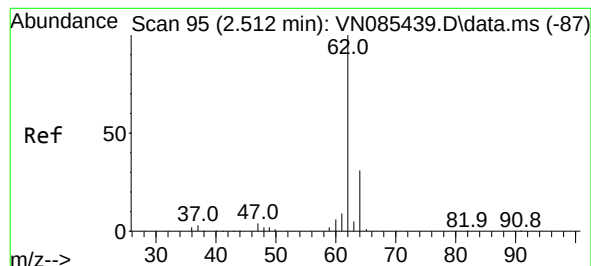
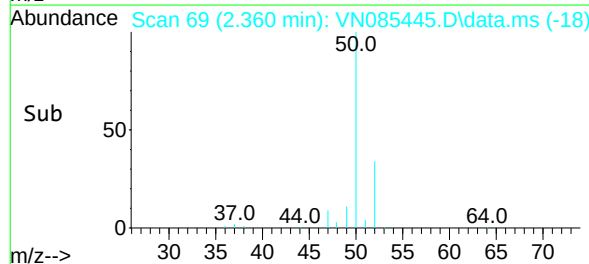
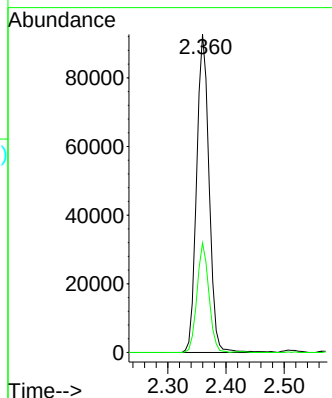
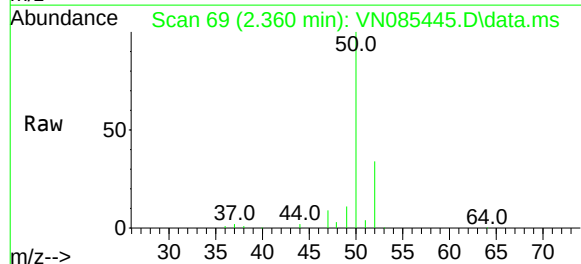
#3
Chloromethane
Concen: 42.883 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 50 Resp: 138152
Ion Ratio Lower Upper
50 100
52 34.4 27.0 40.6

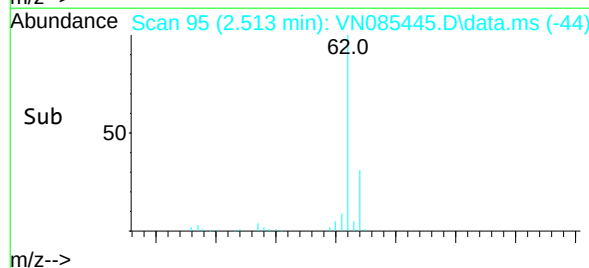
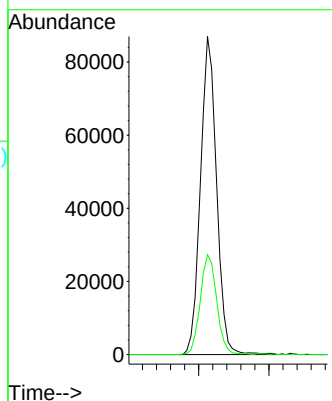
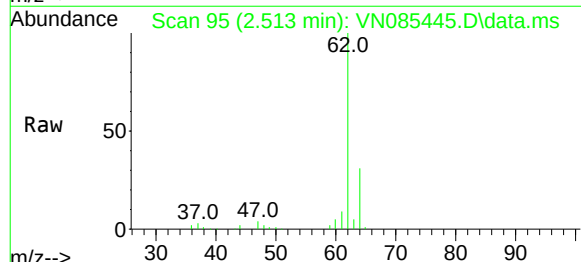
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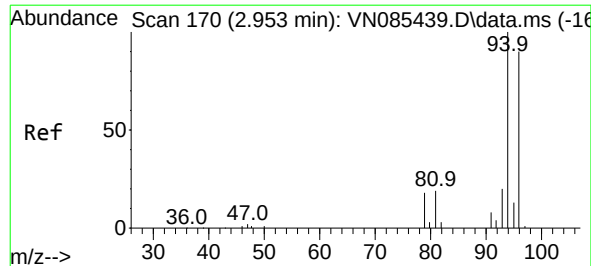
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#4
Vinyl Chloride
Concen: 42.715 ug/l
RT: 2.513 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 138316
Ion Ratio Lower Upper
62 100
64 31.4 24.8 37.2





#5

Bromomethane

Concen: 40.910 ug/l

RT: 2.954 min Scan# 170

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 94 Resp: 80019

Ion Ratio Lower Upper

94 100

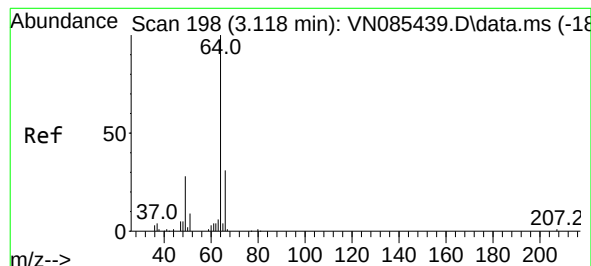
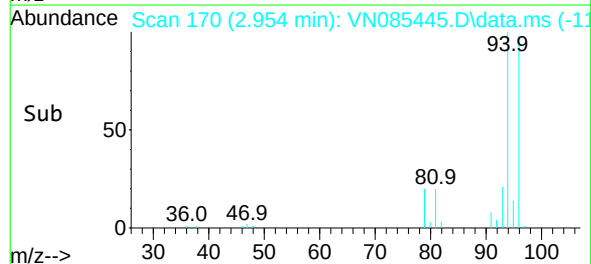
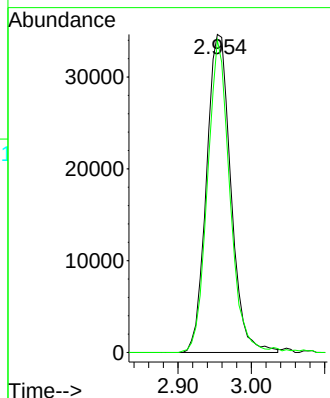
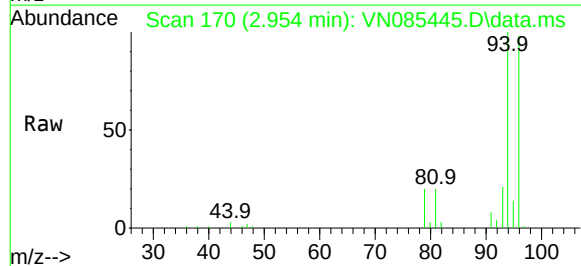
96 98.2 71.8 107.6

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#6

Chloroethane

Concen: 42.299 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.006 min

Lab File: VN085445.D

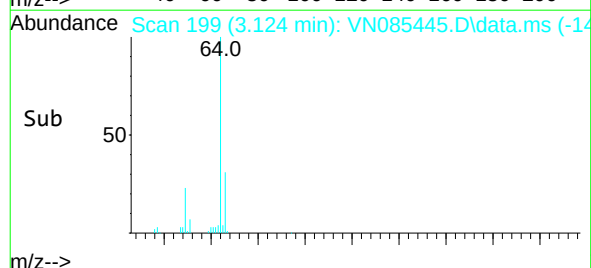
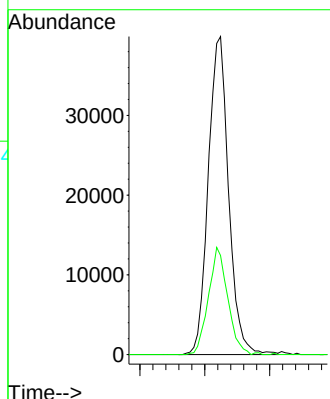
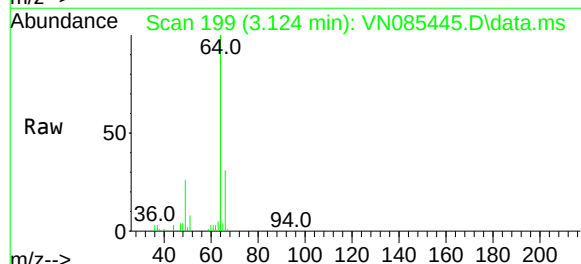
Acq: 14 Jan 2025 18:06

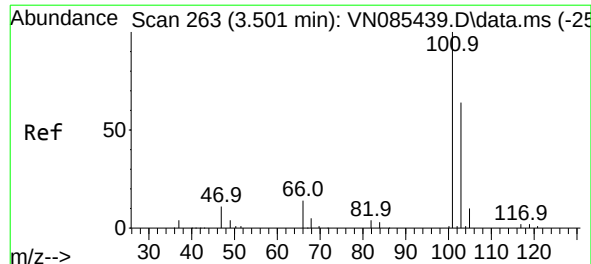
Tgt Ion: 64 Resp: 86837

Ion Ratio Lower Upper

64 100

66 31.1 24.6 36.8





#7

Trichlorofluoromethane

Concen: 43.956 ug/l

RT: 3.501 min Scan# 26

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:101 Resp: 206526

Ion Ratio Lower Upper

101 100

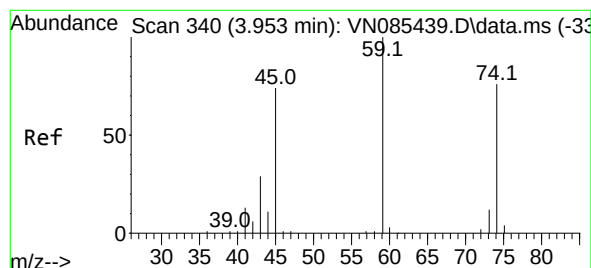
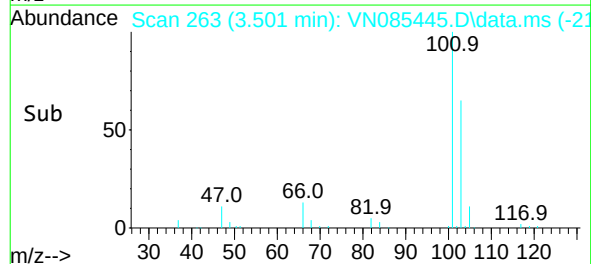
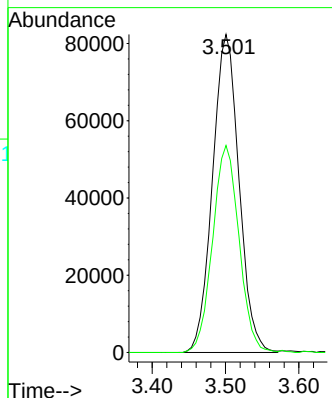
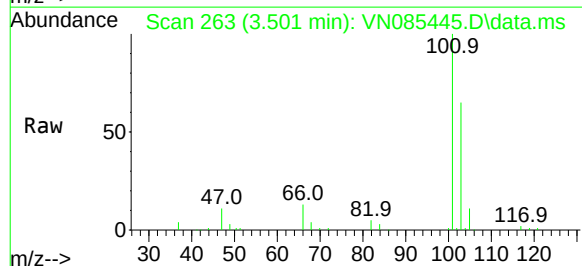
103 65.1 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#8

Diethyl Ether

Concen: 42.846 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085445.D

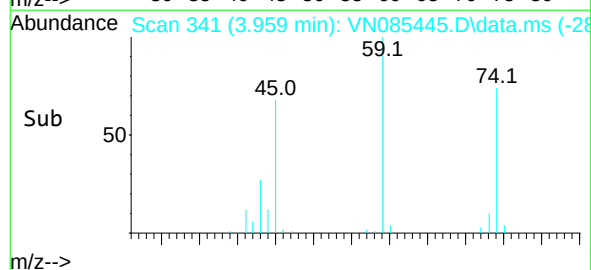
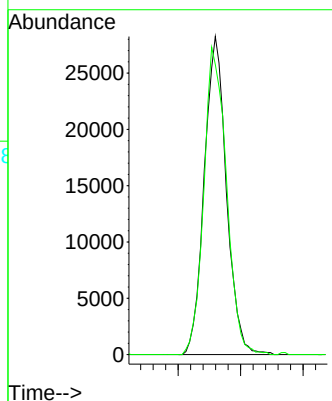
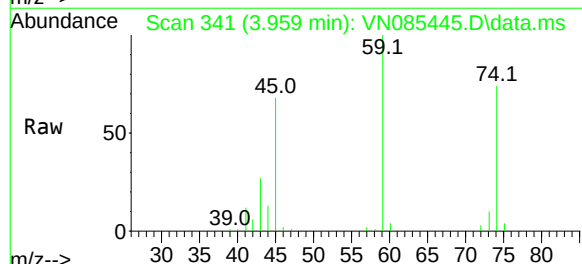
Acq: 14 Jan 2025 18:06

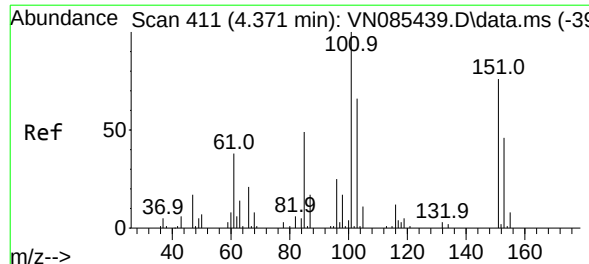
Tgt Ion: 74 Resp: 69545

Ion Ratio Lower Upper

74 100

45 99.0 49.7 149.1





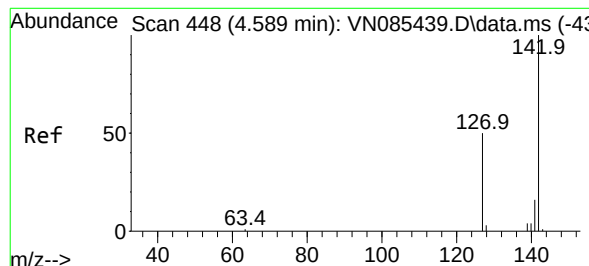
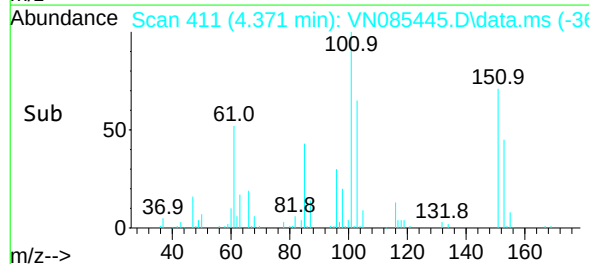
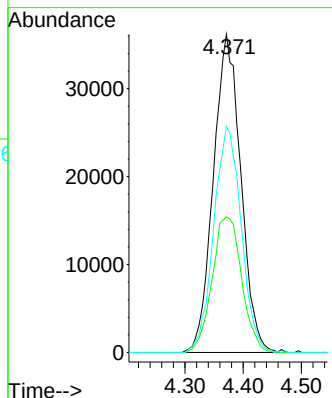
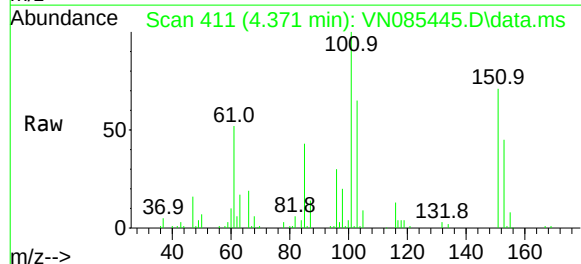
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.706 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVNV011425

Tgt Ion:101 Resp: 118310
Ion Ratio Lower Upper
101 100
85 45.9 37.8 56.8
151 71.5 58.8 88.2

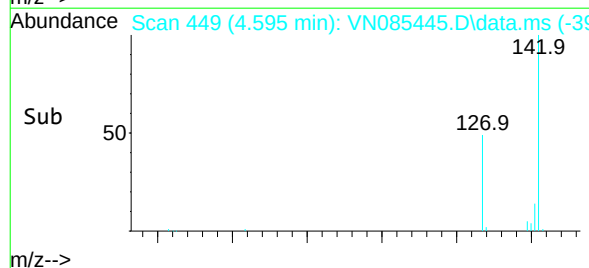
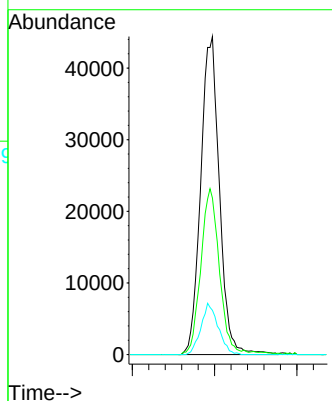
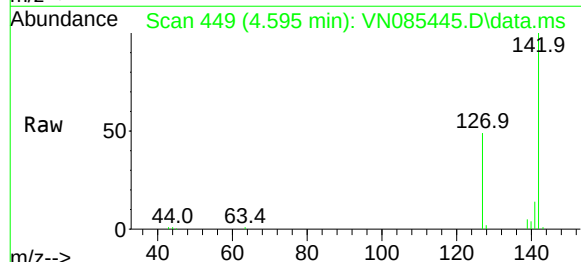
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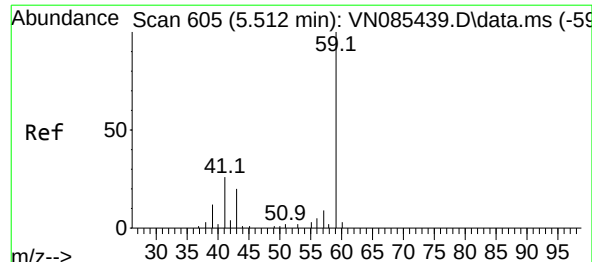
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#10
Methyl Iodide
Concen: 46.259 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:142 Resp: 140190
Ion Ratio Lower Upper
142 100
127 49.2 40.3 60.5
141 13.9 12.8 19.2





#11

Tert butyl alcohol

Concen: 206.633 ug/l

RT: 5.518 min Scan# 60

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 59 Resp: 83933

Ion Ratio Lower Upper

59 100

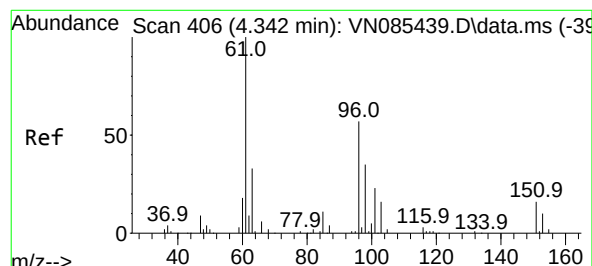
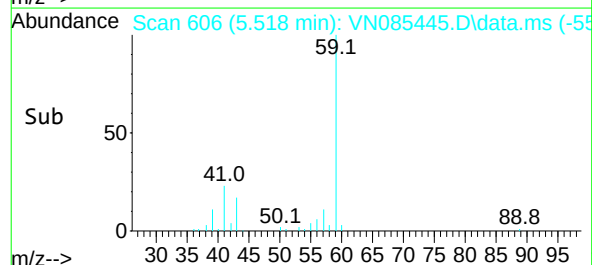
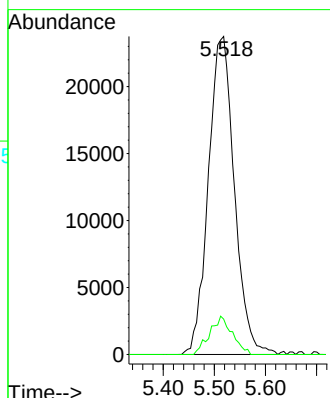
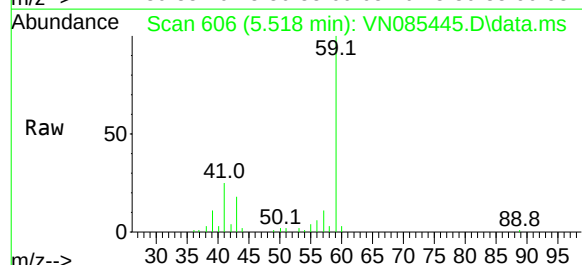
57 10.4 8.6 13.0

Manual Integrations

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Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#12

1,1-Dichloroethene

Concen: 45.317 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

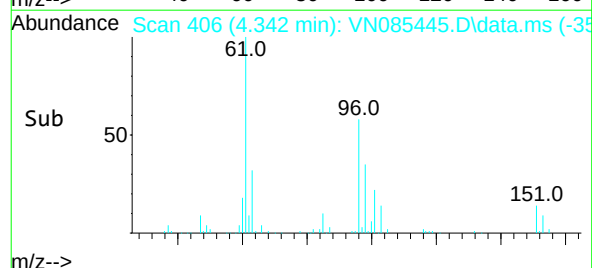
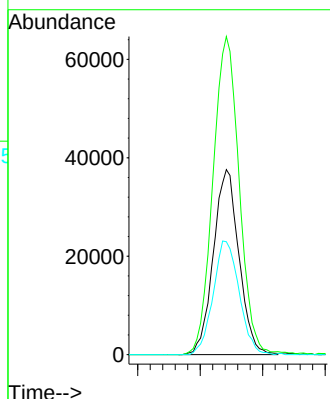
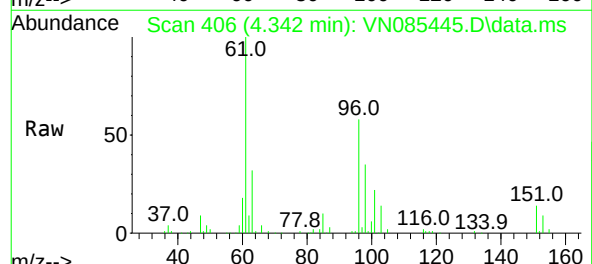
Tgt Ion: 96 Resp: 106880

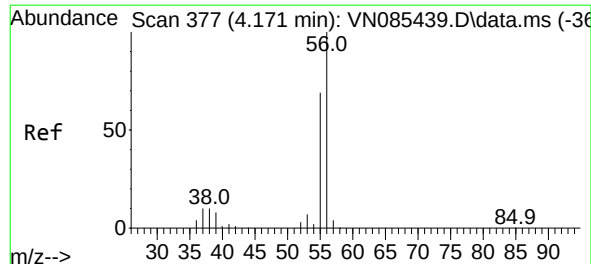
Ion Ratio Lower Upper

96 100

61 171.9 141.0 211.4

98 61.0 49.0 73.6





#13

Acrolein

Concen: 244.765 ug/l

RT: 4.177 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 56 Resp: 135720

Ion Ratio Lower Upper

56 100

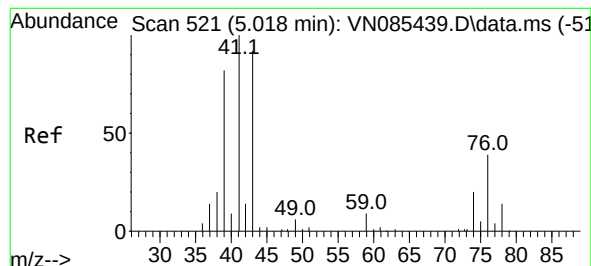
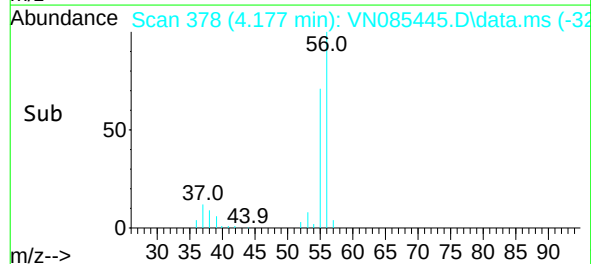
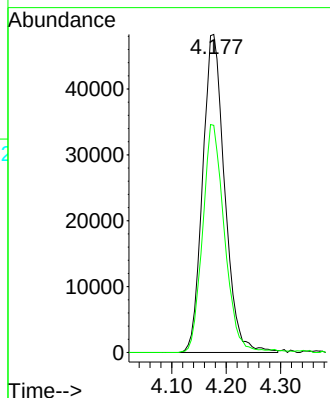
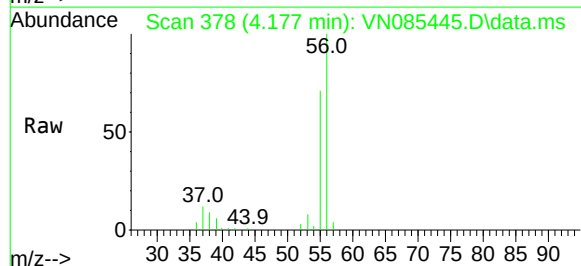
55 70.9 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#14

Allyl chloride

Concen: 44.501 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

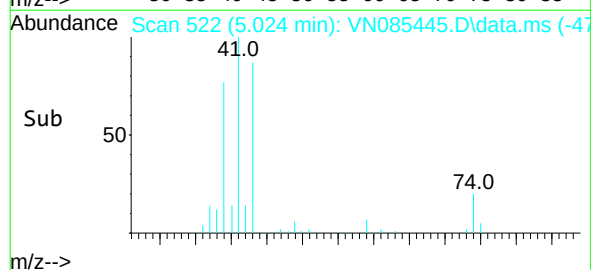
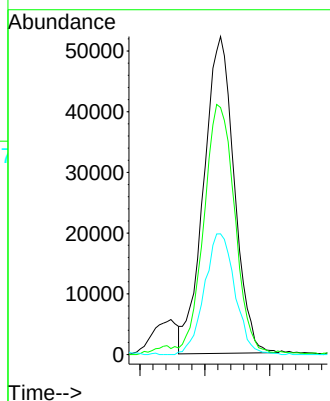
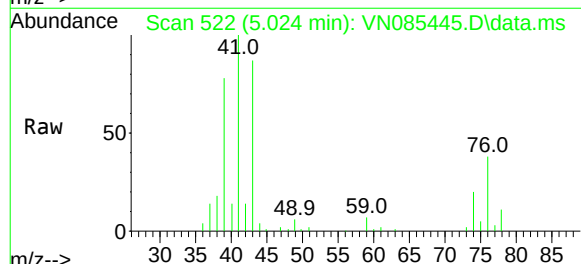
Tgt Ion: 41 Resp: 170308

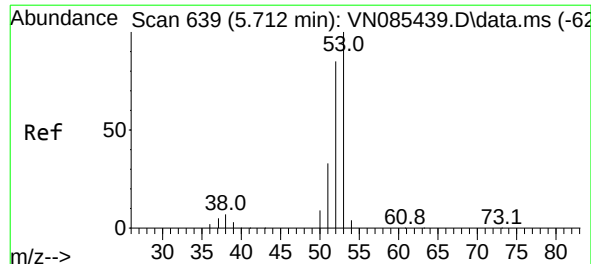
Ion Ratio Lower Upper

41 100

39 78.9 64.4 96.6

76 38.2 30.5 45.7





#15

Acrylonitrile

Concen: 227.920 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

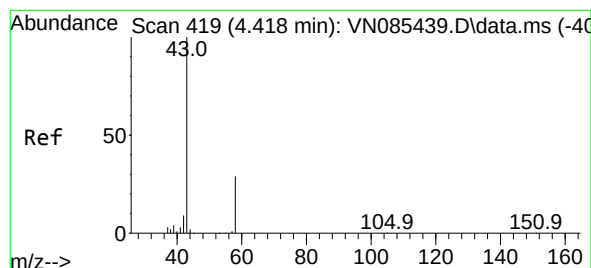
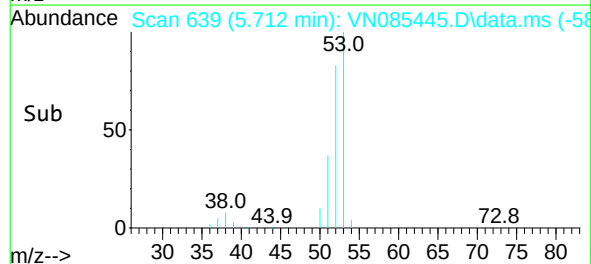
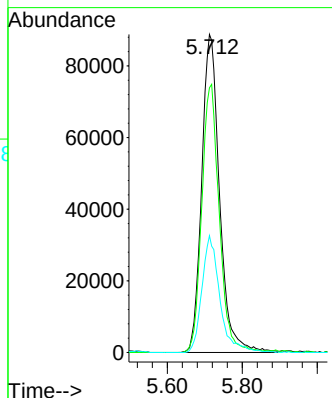
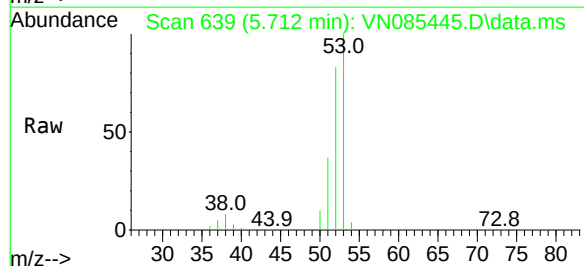
ClientSampleId :

ICVVN011425

Tgt Ion:	53	Resp:	294062
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.5	98.3
51	36.8	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#16

Acetone

Concen: 213.971 ug/l

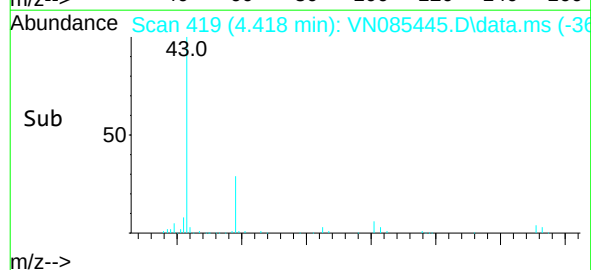
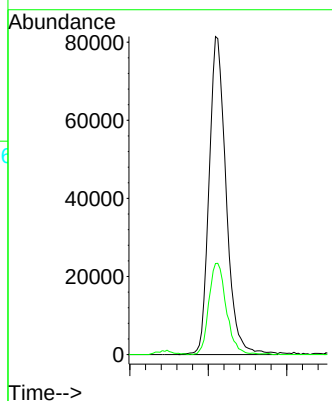
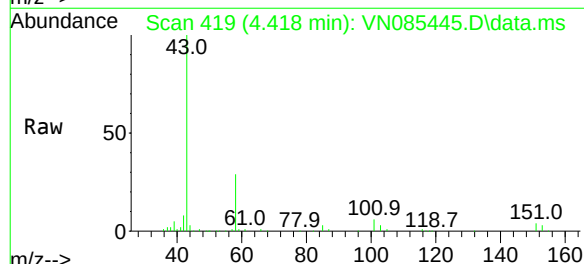
RT: 4.418 min Scan# 419

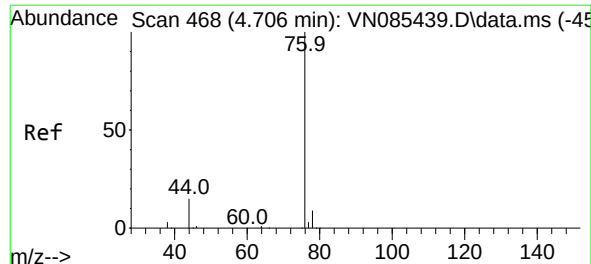
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	43	Resp:	245248
Ion	Ratio	Lower	Upper
43	100		
58	28.4	23.8	35.6





#17

Carbon Disulfide

Concen: 41.342 ug/l

RT: 4.712 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 76 Resp: 300215

Ion Ratio Lower Upper

76 100

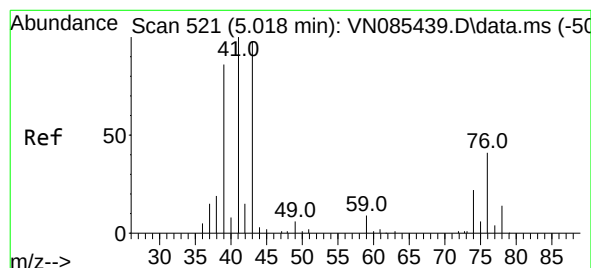
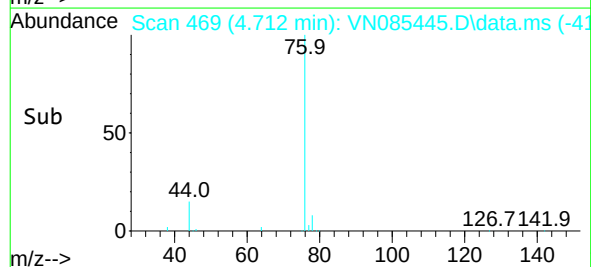
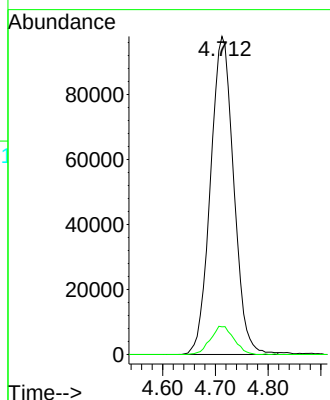
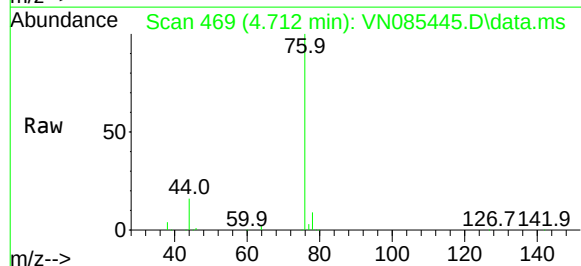
78 8.7 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#18

Methyl Acetate

Concen: 45.028 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085445.D

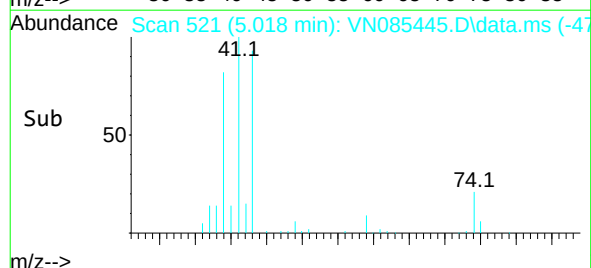
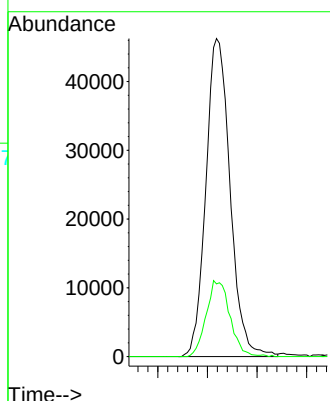
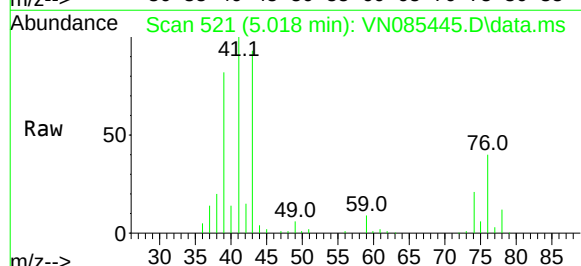
Acq: 14 Jan 2025 18:06

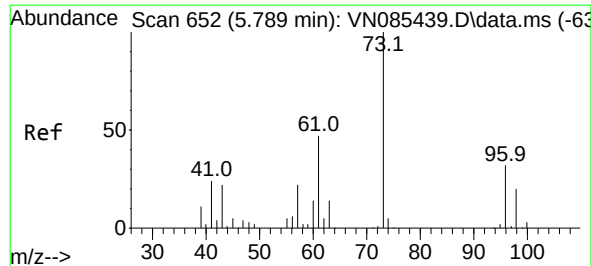
Tgt Ion: 43 Resp: 156938

Ion Ratio Lower Upper

43 100

74 23.4 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 47.768 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 73 Resp: 365819

Ion Ratio Lower Upper

73 100

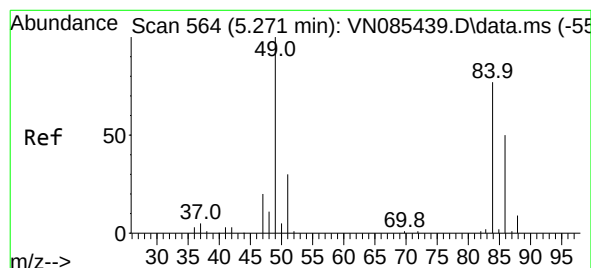
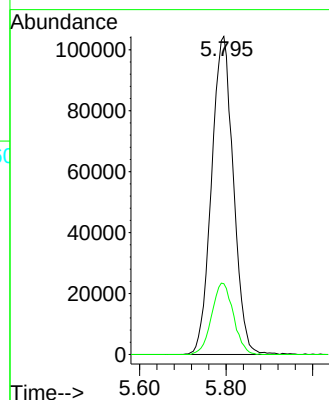
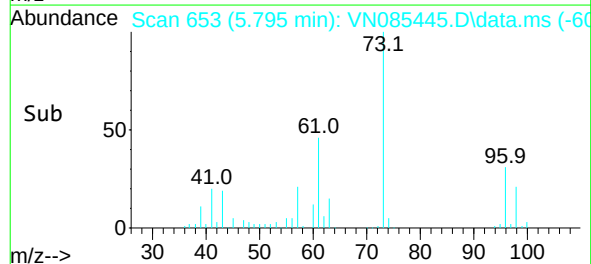
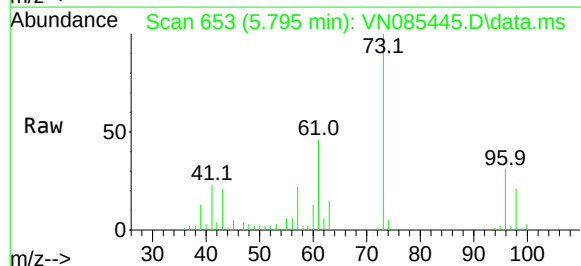
57 22.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#20

Methylene Chloride

Concen: 43.017 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion: 84 Resp: 122059

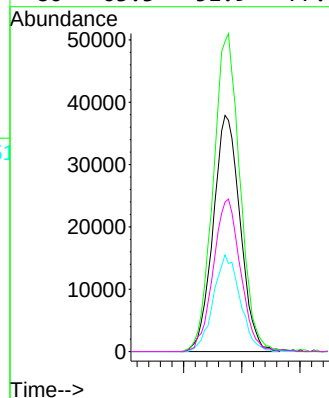
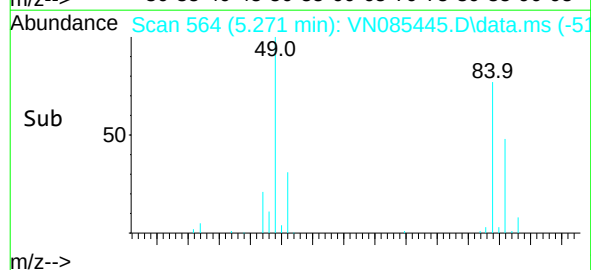
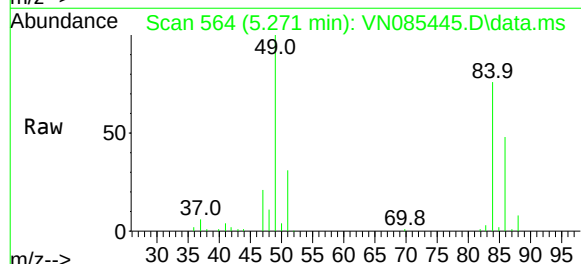
Ion Ratio Lower Upper

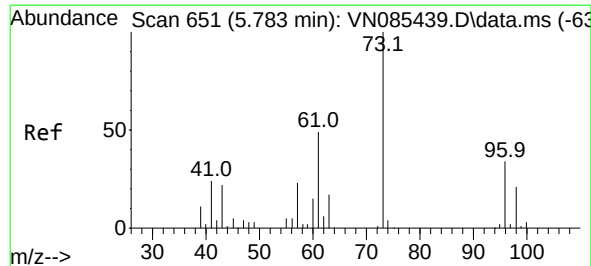
84 100

49 131.3 104.1 156.1

51 41.0 31.0 46.4

86 63.3 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 44.672 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085445.D

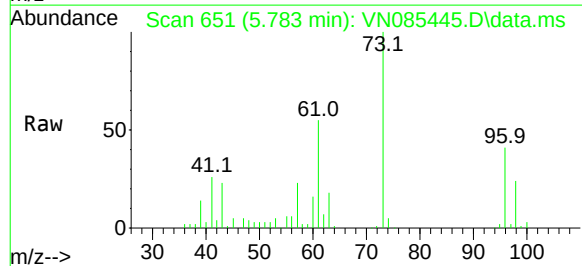
Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

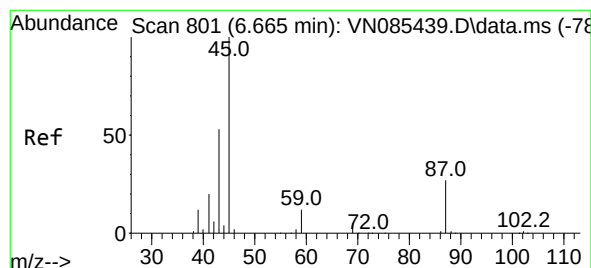
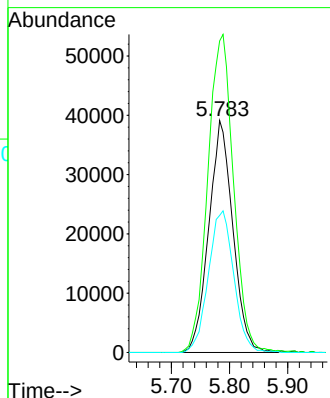
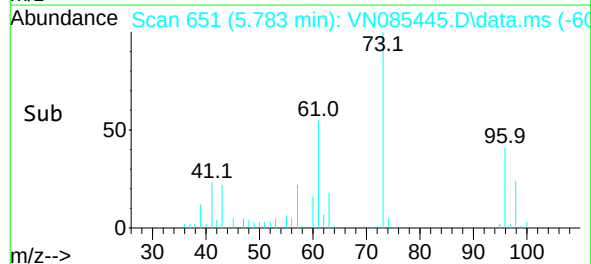
ICVVN011425



Tgt Ion:	96	Resp:	112597
Ion	Ratio	Lower	Upper
96	100		
61	134.3	115.7	173.5
98	59.1	49.8	74.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#22

Diisopropyl ether

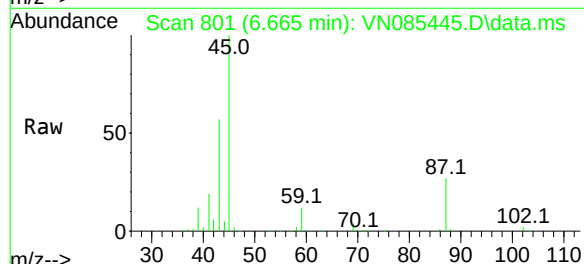
Concen: 46.996 ug/l

RT: 6.665 min Scan# 801

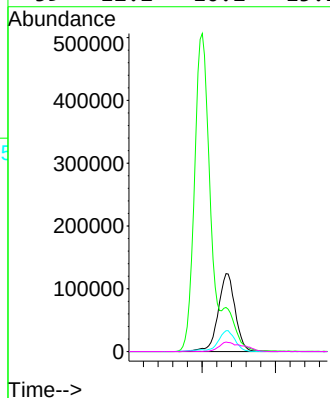
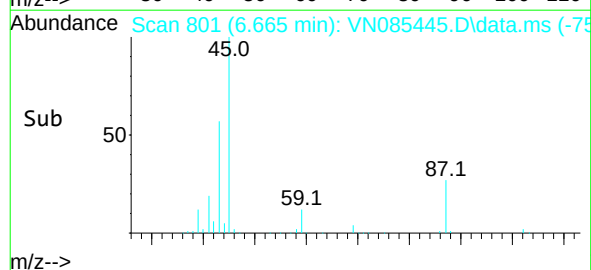
Delta R.T. 0.000 min

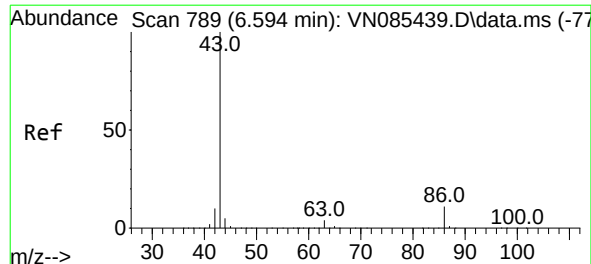
Lab File: VN085445.D

Acq: 14 Jan 2025 18:06



Tgt Ion:	45	Resp:	399206
Ion	Ratio	Lower	Upper
45	100		
43	56.0	45.0	67.6
87	26.8	21.8	32.8
59	12.2	10.2	15.2





#23

Vinyl Acetate

Concen: 247.459 ug/l

RT: 6.601 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 43 Resp: 1471068

Ion Ratio Lower Upper

43 100

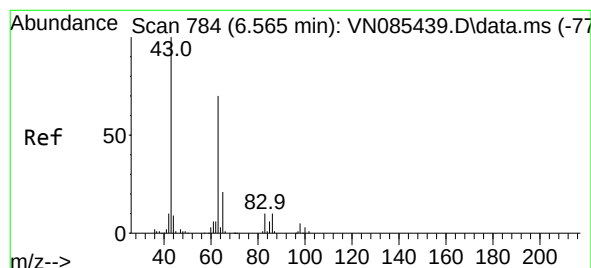
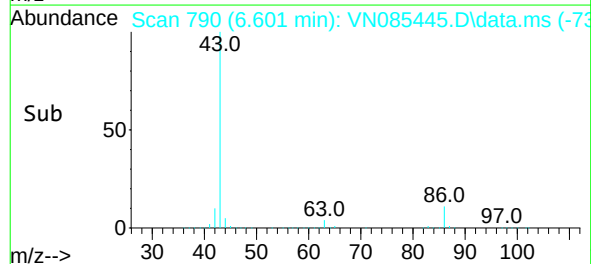
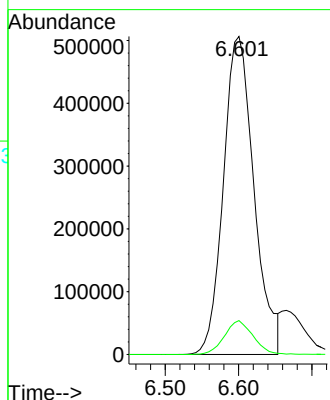
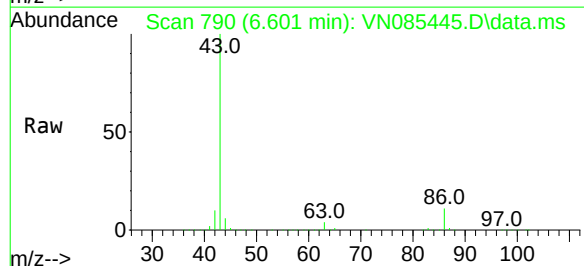
86 10.7 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#24

1,1-Dichloroethane

Concen: 44.114 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

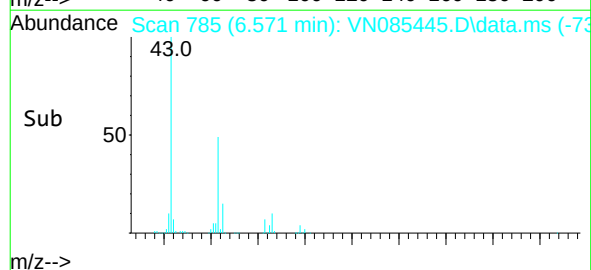
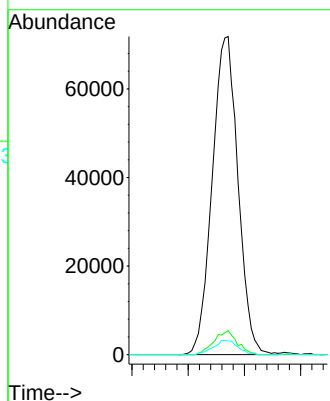
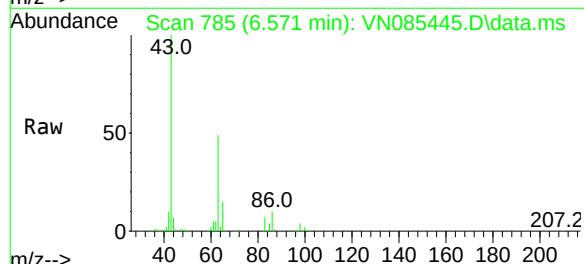
Tgt Ion: 63 Resp: 228489

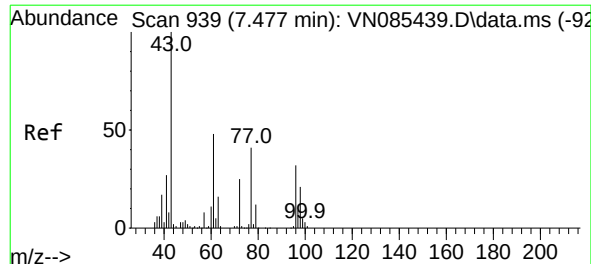
Ion Ratio Lower Upper

63 100

98 7.5 3.3 9.8

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 228.924 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 43 Resp: 386125

Ion Ratio Lower Upper

43 100

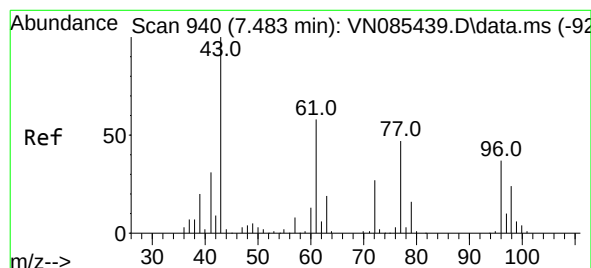
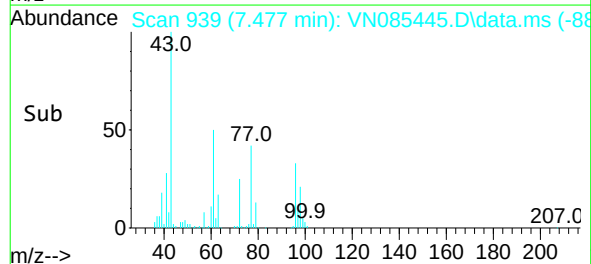
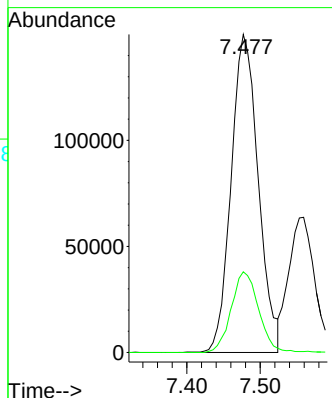
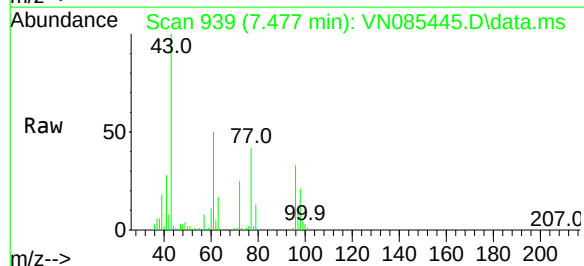
72 25.4 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#26

2,2-Dichloropropane

Concen: 47.593 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085445.D

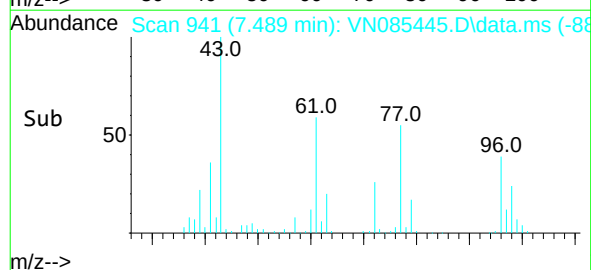
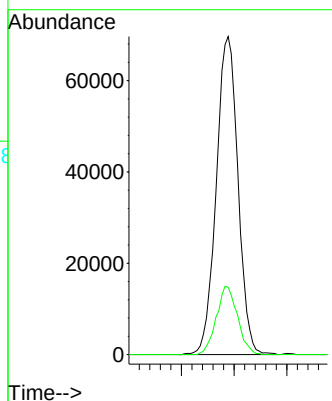
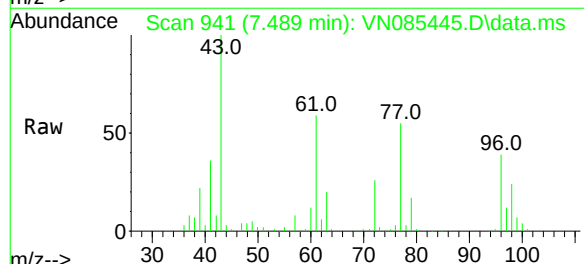
Acq: 14 Jan 2025 18:06

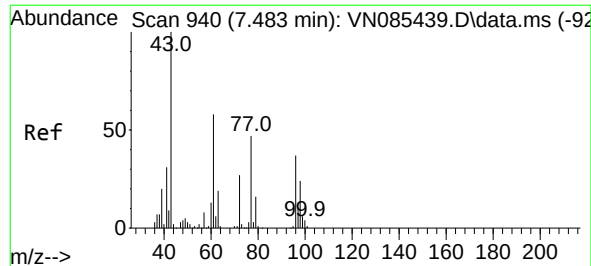
Tgt Ion: 77 Resp: 199303

Ion Ratio Lower Upper

77 100

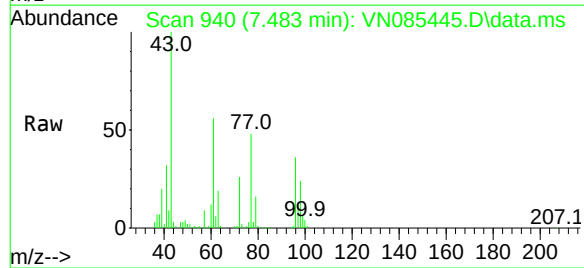
97 20.9 10.7 32.1





#27
cis-1,2-Dichloroethene
Concen: 45.446 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

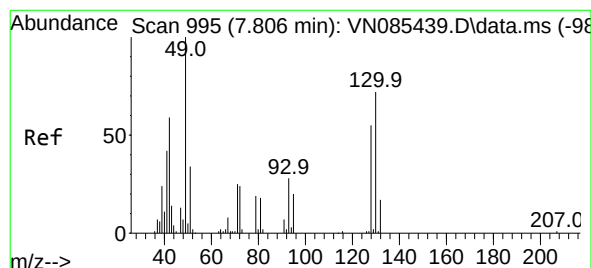
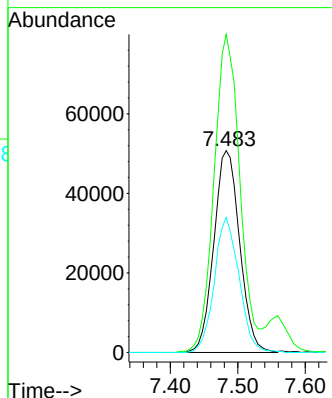
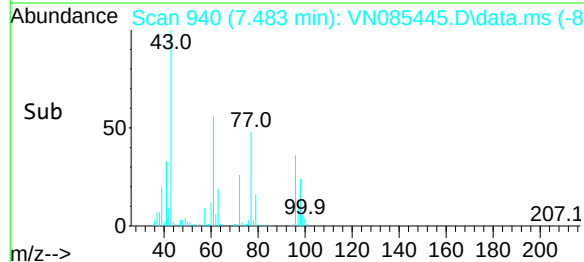
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



Tgt Ion: 96 Resp: 134920
Ion Ratio Lower Upper
96 100
61 158.0 0.0 311.8
98 64.1 0.0 126.0

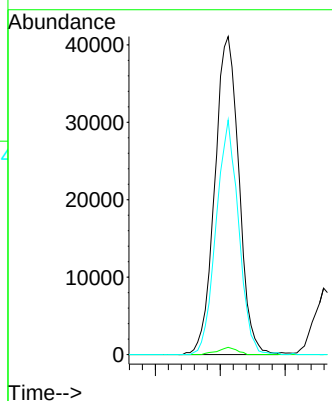
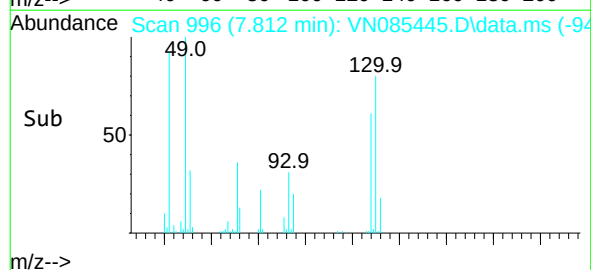
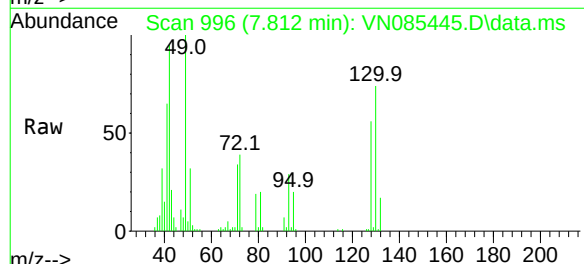
Manual Integrations
APPROVED

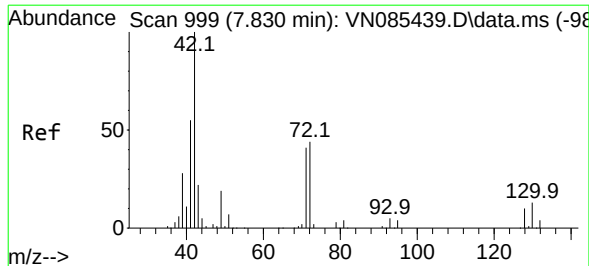
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#28
Bromochloromethane
Concen: 44.122 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 49 Resp: 106323
Ion Ratio Lower Upper
49 100
129 1.8 0.0 4.4
130 68.6 55.0 82.4





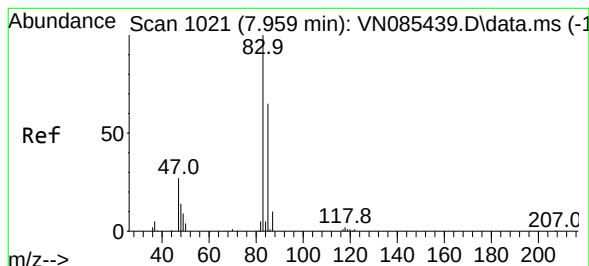
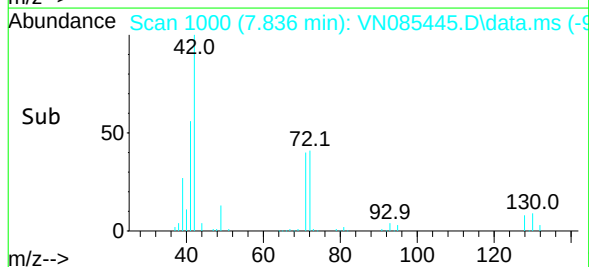
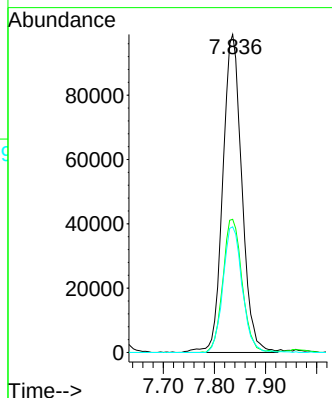
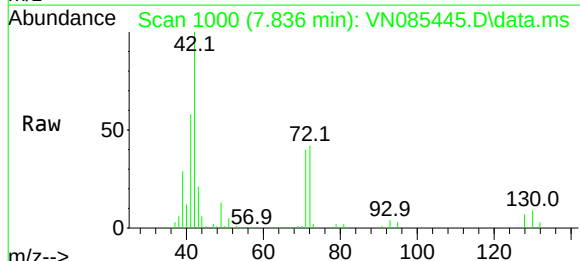
#29
Tetrahydrofuran
Concen: 239.065 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 42 Resp: 255650
Ion Ratio Lower Upper
42 100
72 42.5 34.2 51.2
71 39.9 32.5 48.7

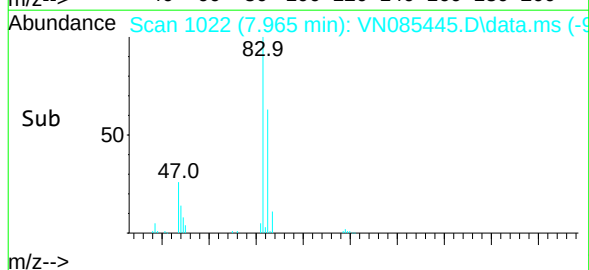
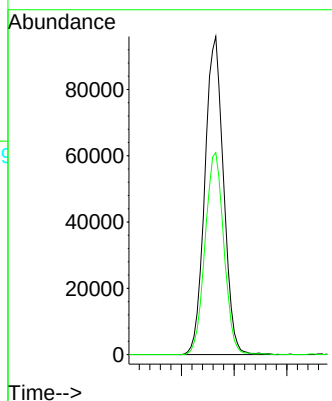
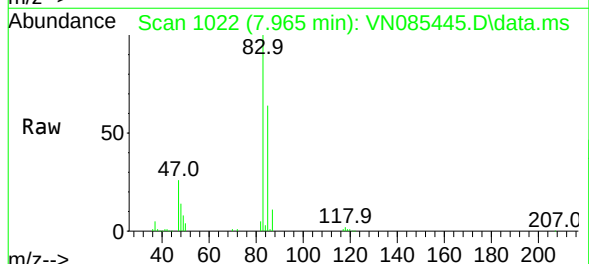
Manual Integrations
APPROVED

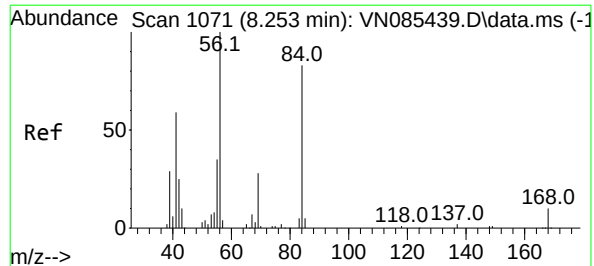
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#30
Chloroform
Concen: 44.071 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 83 Resp: 235923
Ion Ratio Lower Upper
83 100
85 63.5 51.8 77.6





#31

Cyclohexane

Concen: 42.878 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 56 Resp: 193034

Ion Ratio Lower Upper

56 100

69 30.5 22.2 33.4

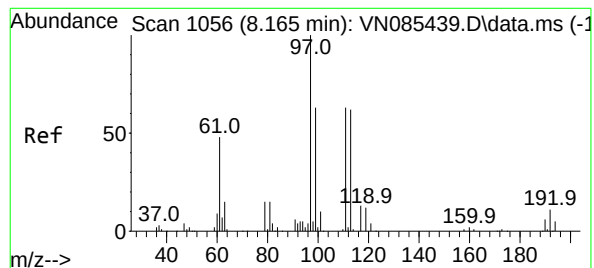
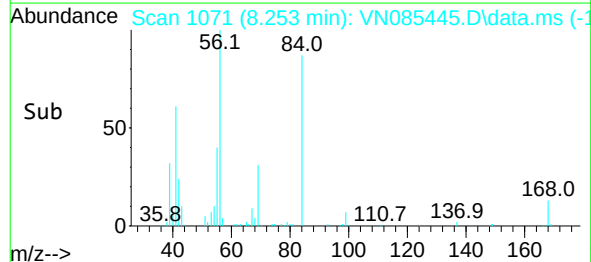
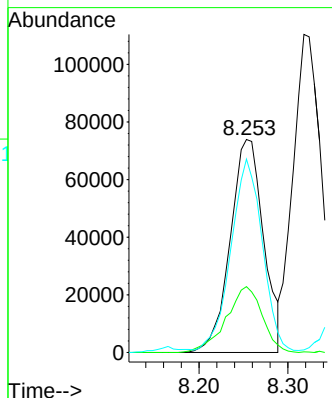
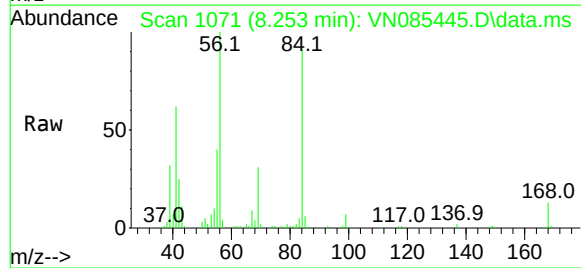
84 89.4 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#32

1,1,1-Trichloroethane

Concen: 44.332 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

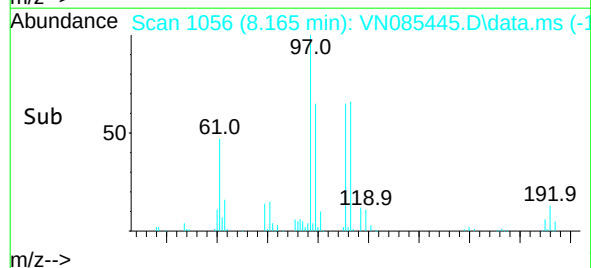
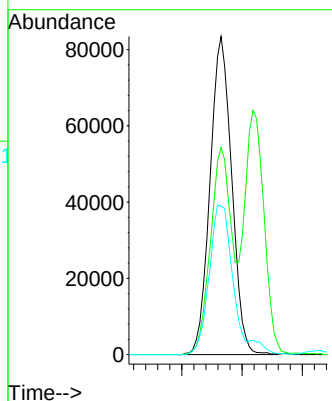
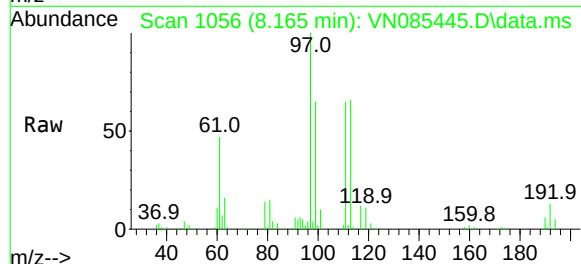
Tgt Ion: 97 Resp: 208172

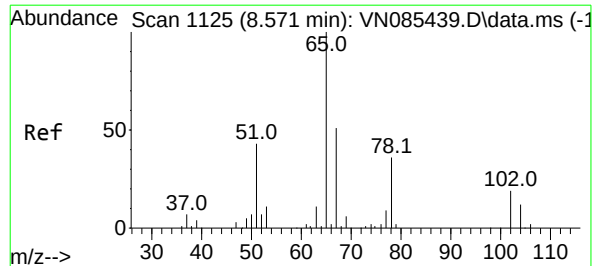
Ion Ratio Lower Upper

97 100

99 61.8 49.8 74.6

61 52.8 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 49.782 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 65 Resp: 176594

Ion Ratio Lower Upper

65 100

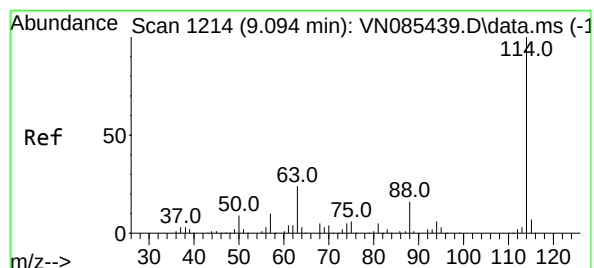
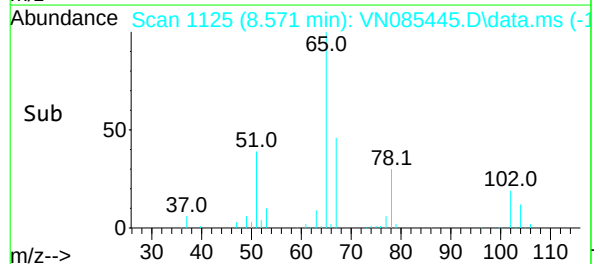
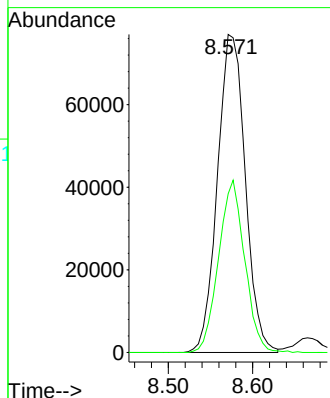
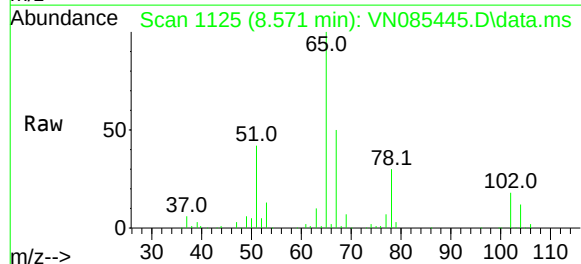
67 50.9 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

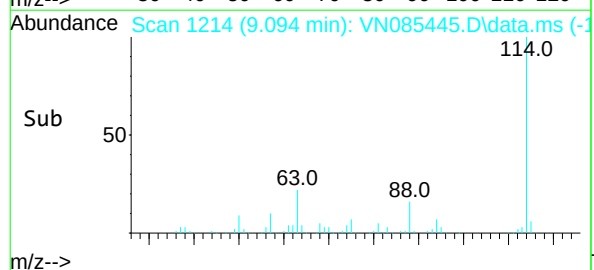
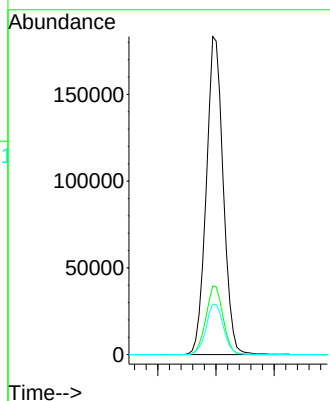
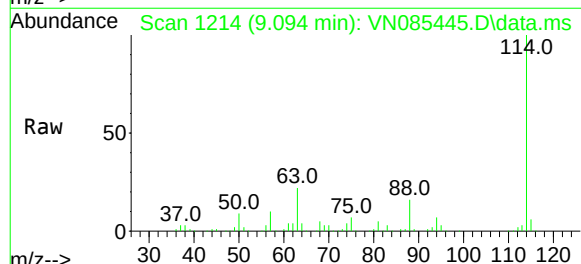
Tgt Ion:114 Resp: 370487

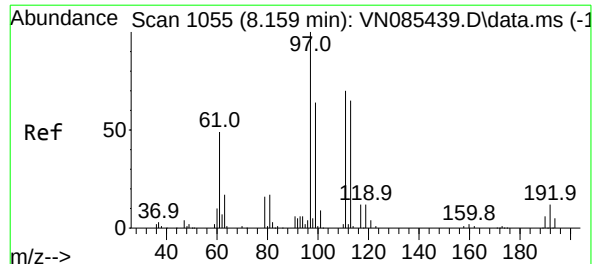
Ion Ratio Lower Upper

114 100

63 21.6 0.0 47.6

88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.768 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:113 Resp: 130487

Ion Ratio Lower Upper

113 100

111 102.5 82.7 124.1

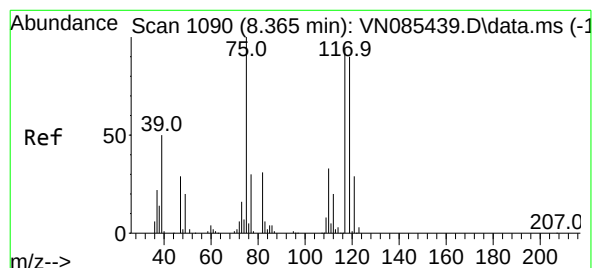
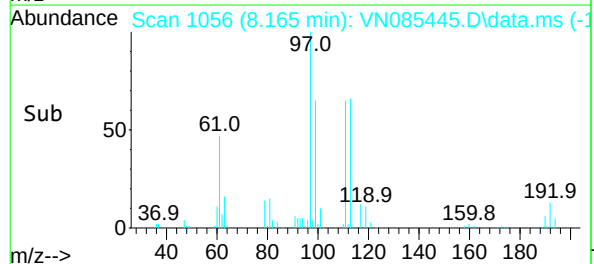
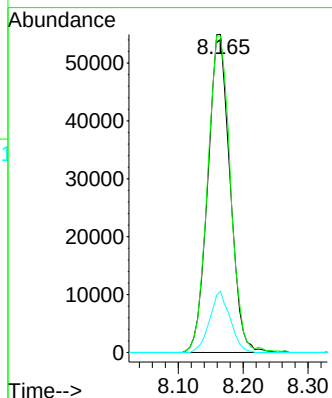
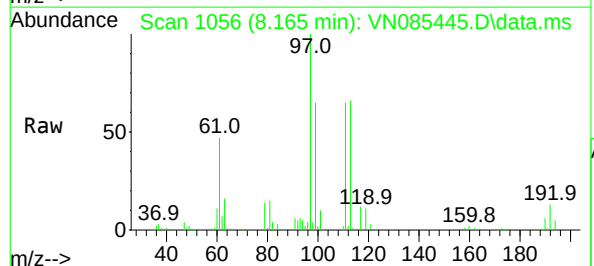
192 17.7 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#36

1,1-Dichloropropene

Concen: 44.863 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

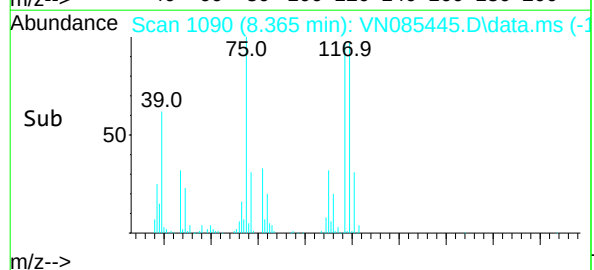
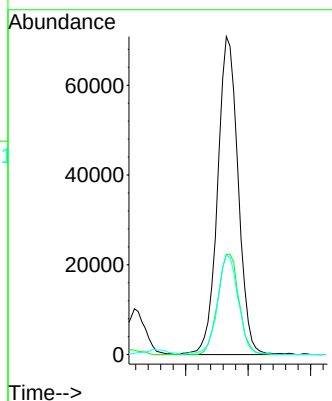
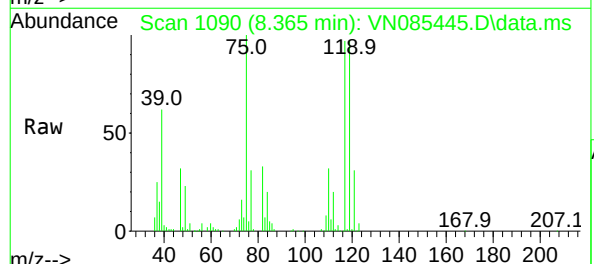
Tgt Ion: 75 Resp: 161834

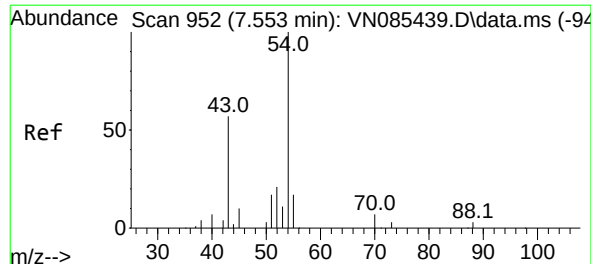
Ion Ratio Lower Upper

75 100

110 32.4 16.5 49.5

77 31.8 24.4 36.6





#37

Ethyl Acetate

Concen: 44.123 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

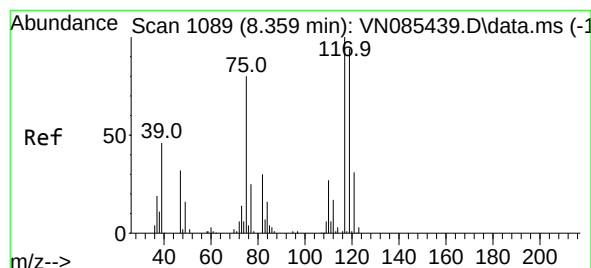
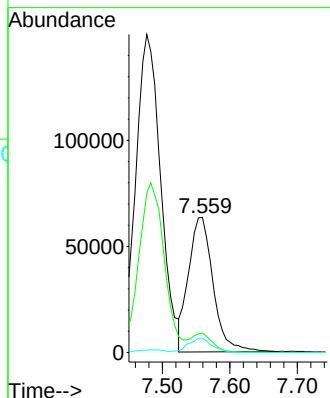
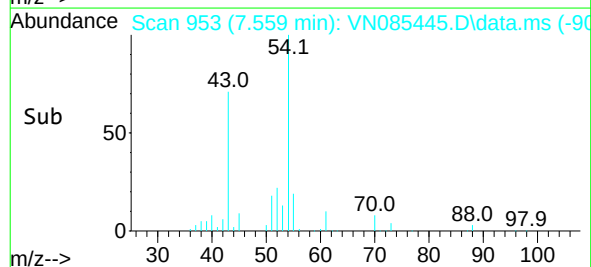
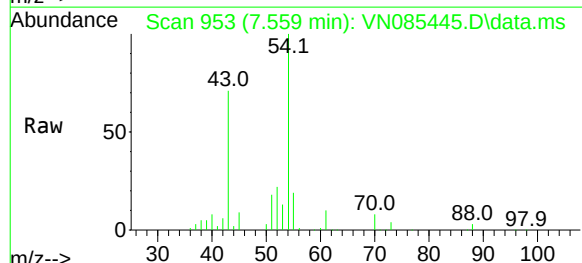
ICVNV011425

Tgt Ion:	43	Resp:	160656
Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	10.2	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#38

Carbon Tetrachloride

Concen: 44.456 ug/l

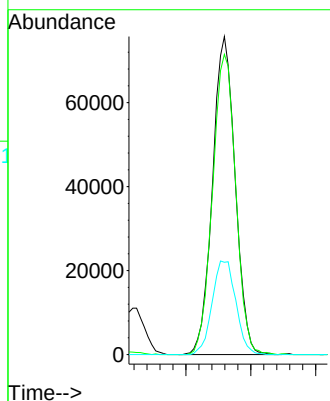
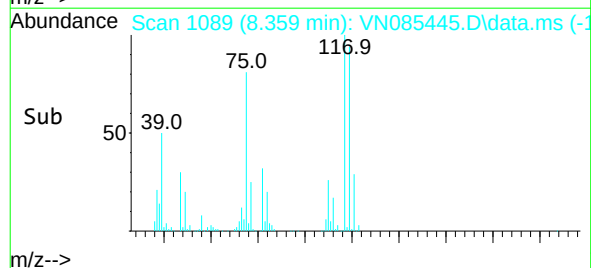
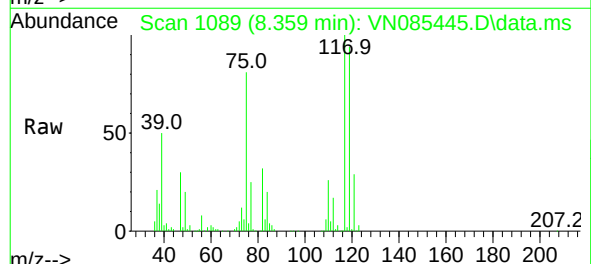
RT: 8.359 min Scan# 1089

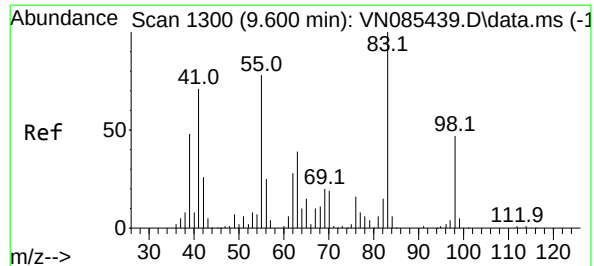
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	117	Resp:	183592
Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.4	113.2
121	29.0	24.6	37.0





#39

Methylcyclohexane

Concen: 49.687 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 83 Resp: 168431

Ion Ratio Lower Upper

83 100

55 80.9 62.6 94.0

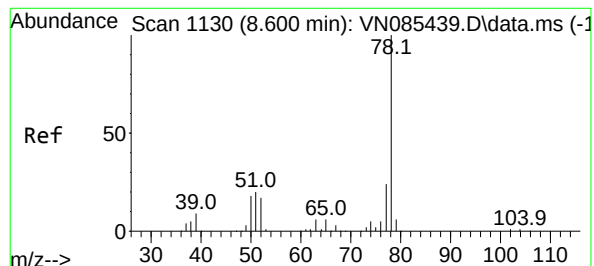
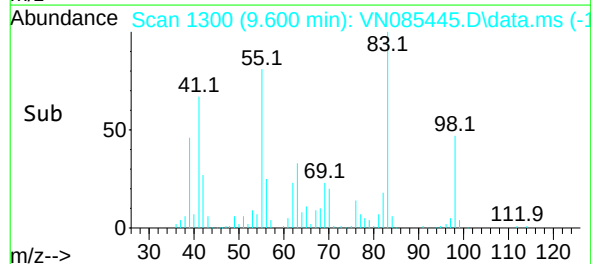
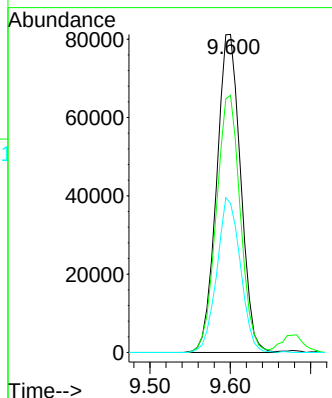
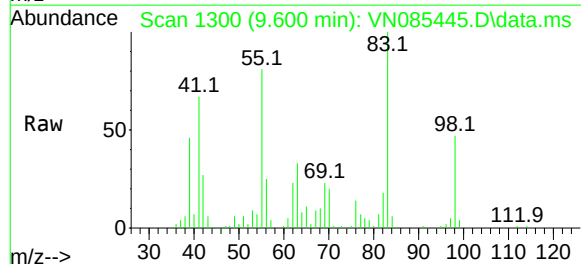
98 46.9 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#40

Benzene

Concen: 45.657 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085445.D

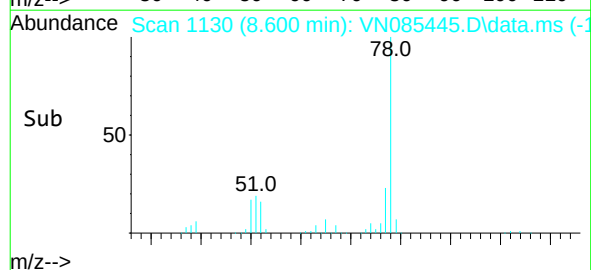
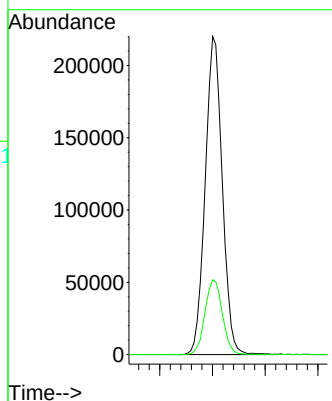
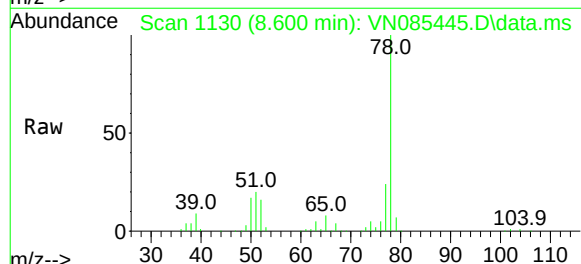
Acq: 14 Jan 2025 18:06

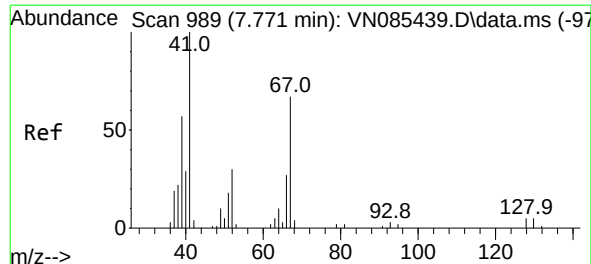
Tgt Ion: 78 Resp: 494871

Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.6





#41

Methacrylonitrile

Concen: 47.155 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 41 Resp: 89326

Ion Ratio Lower Upper

41 100

39 56.6 46.0 69.0

67 70.9 57.4 86.2

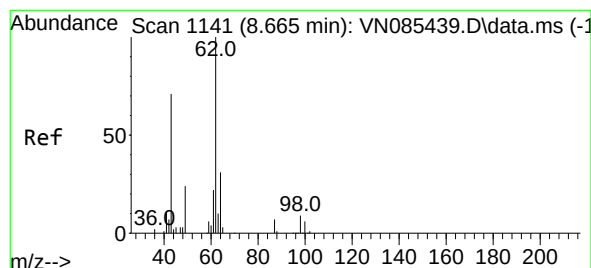
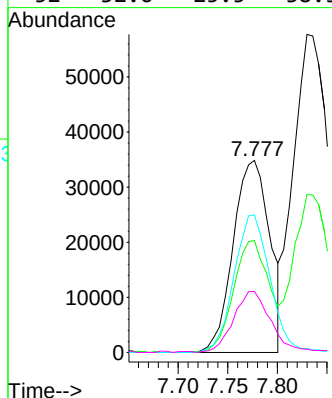
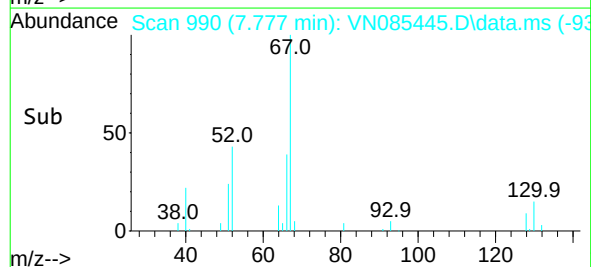
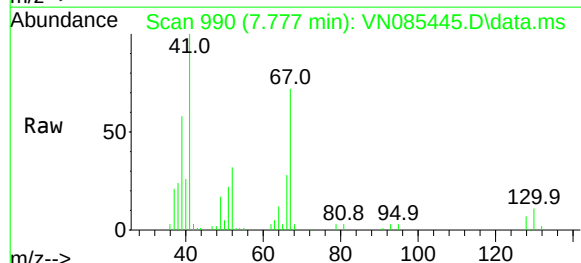
52 32.6 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#42

1,2-Dichloroethane

Concen: 45.481 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085445.D

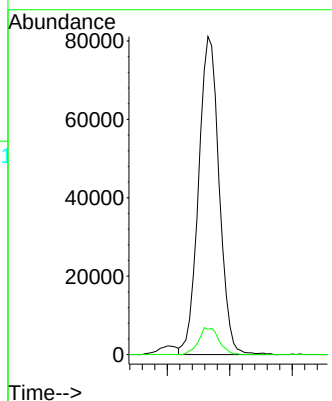
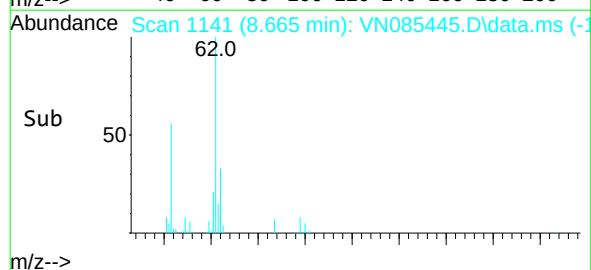
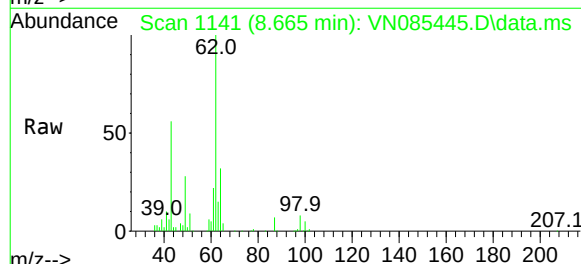
Acq: 14 Jan 2025 18:06

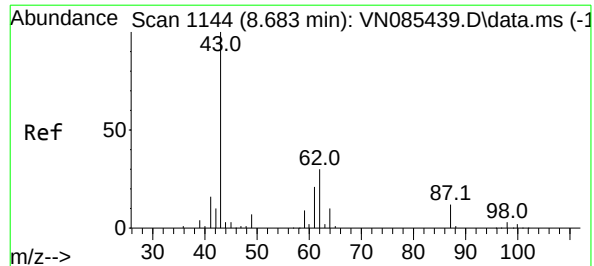
Tgt Ion: 62 Resp: 185663

Ion Ratio Lower Upper

62 100

98 8.3 0.0 17.0





#43

Isopropyl Acetate

Concen: 45.440 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

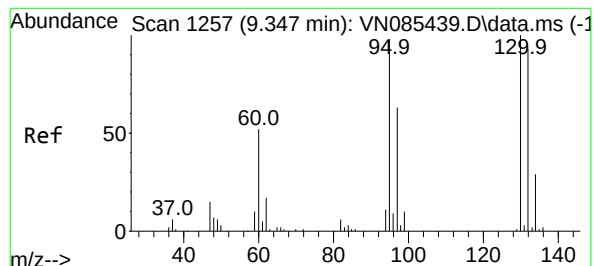
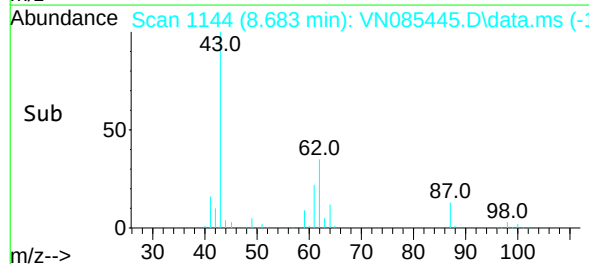
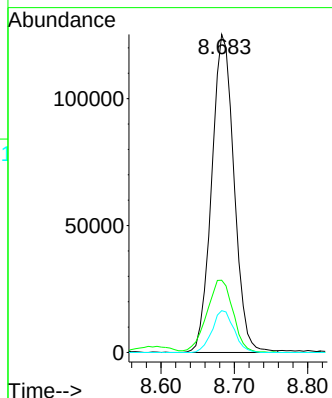
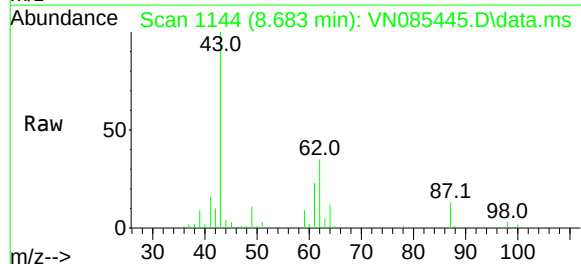
ClientSampleId :

ICVVN011425

Tgt Ion:	43	Resp:	265107
Ion	Ratio	Lower	Upper
43	100		
61	26.7	20.7	31.1
87	12.9	9.8	14.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#44

Trichloroethene

Concen: 43.622 ug/l

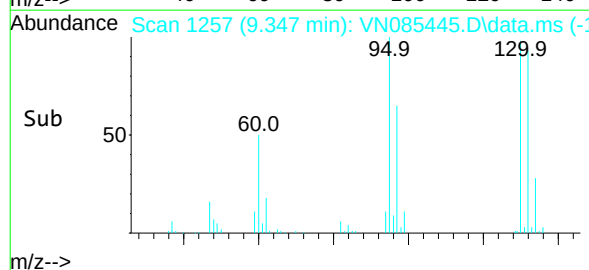
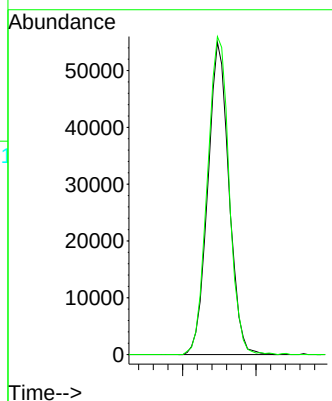
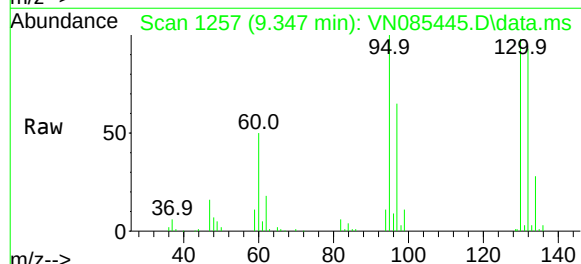
RT: 9.347 min Scan# 1257

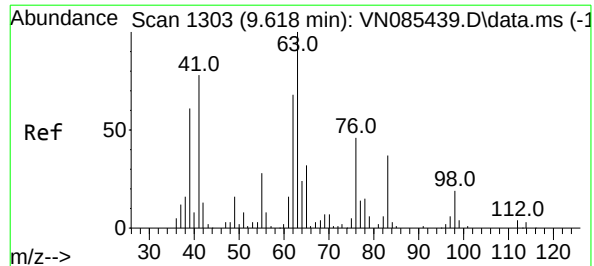
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	130	Resp:	110058
Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	195.8





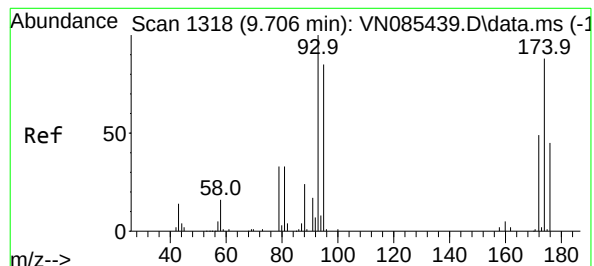
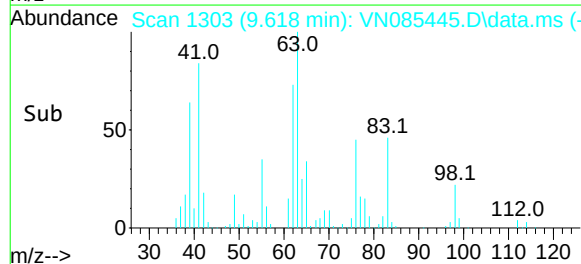
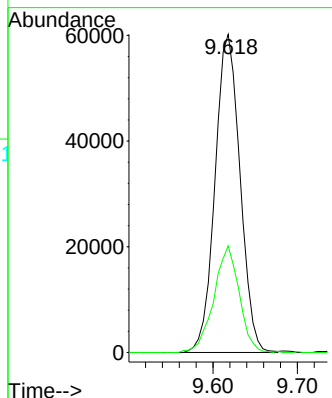
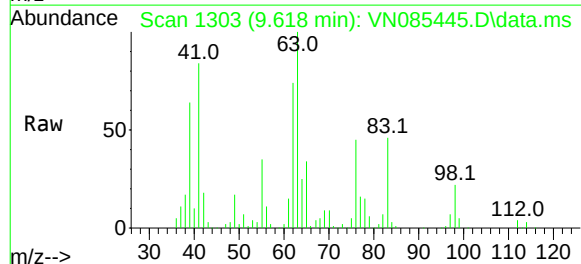
#45
1,2-Dichloropropane
Concen: 44.744 ug/l
RT: 9.618 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 63 Resp: 123876
Ion Ratio Lower Upper
63 100
65 33.5 25.6 38.4

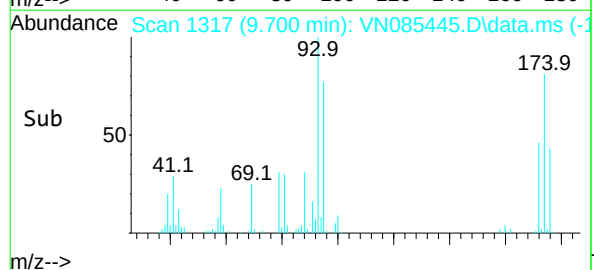
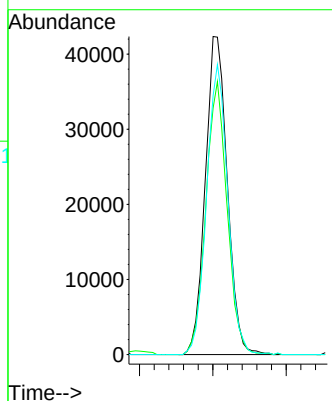
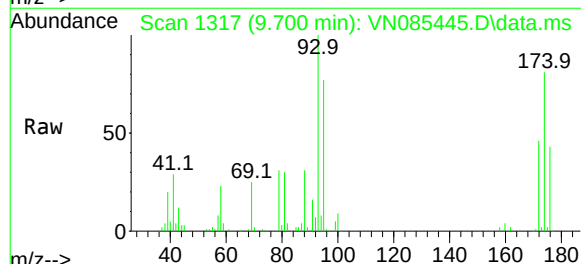
Manual Integrations
APPROVED

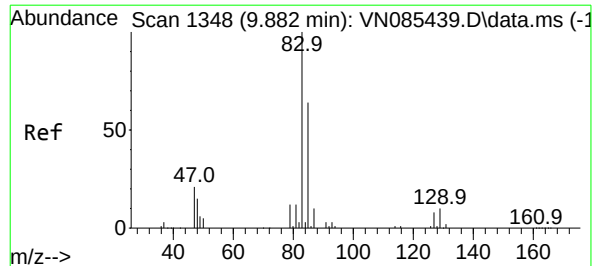
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#46
Dibromomethane
Concen: 44.214 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 93 Resp: 88325
Ion Ratio Lower Upper
93 100
95 82.9 64.7 97.1
174 88.0 69.0 103.4





#47

Bromodichloromethane

Concen: 45.655 ug/l

RT: 9.889 min Scan# 1348

Delta R.T. 0.007 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 83 Resp: 185808

Ion Ratio Lower Upper

83 100

85 63.5 51.2 76.8

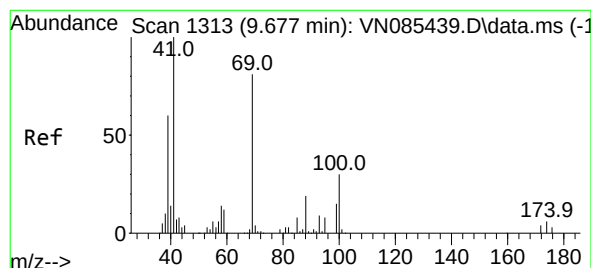
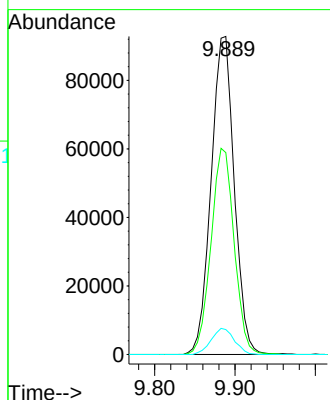
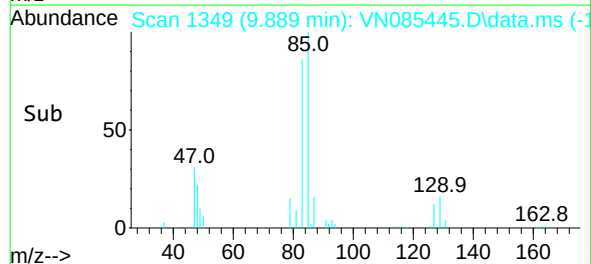
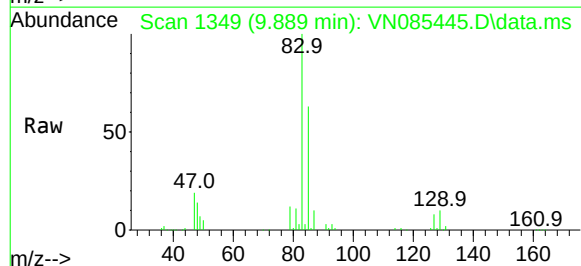
127 7.8 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#48

Methyl methacrylate

Concen: 49.948 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

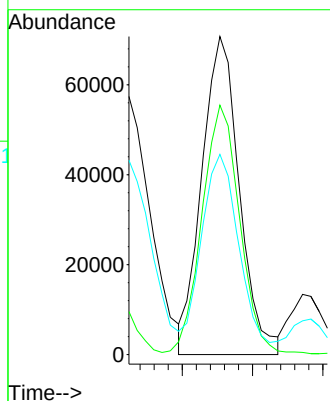
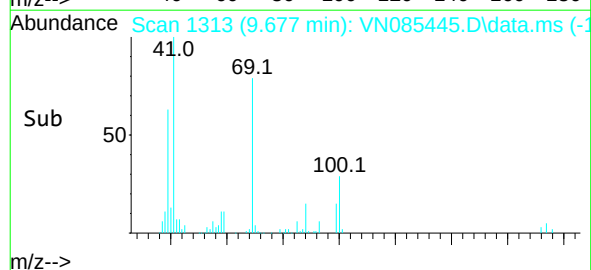
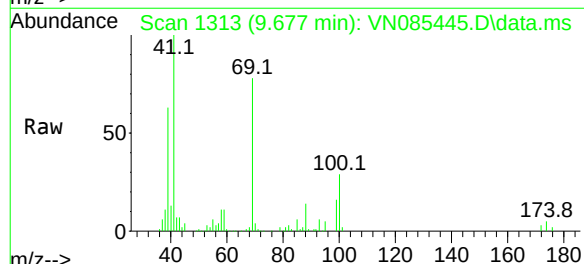
Tgt Ion: 41 Resp: 131142

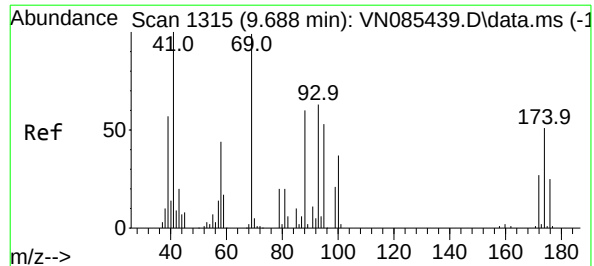
Ion Ratio Lower Upper

41 100

69 78.6 64.7 97.1

39 63.3 49.0 73.6





#49

1,4-Dioxane

Concen: 792.760 ug/l

RT: 9.689 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 88 Resp: 35051

Ion Ratio Lower Upper

88 100

43 33.8 26.6 39.8

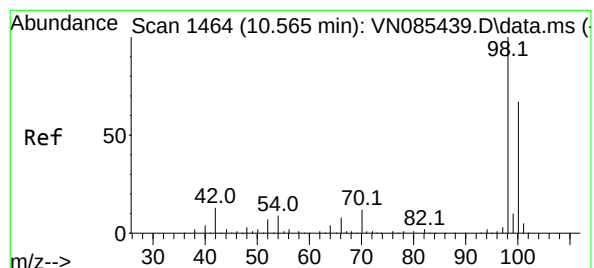
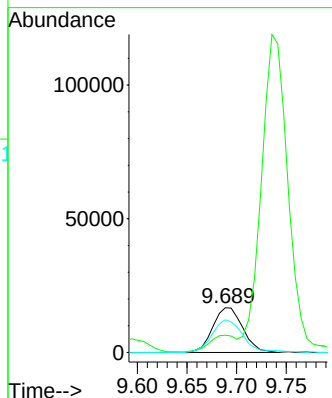
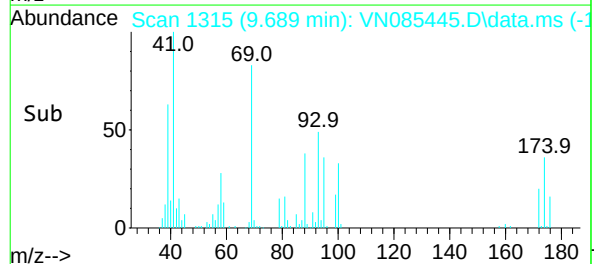
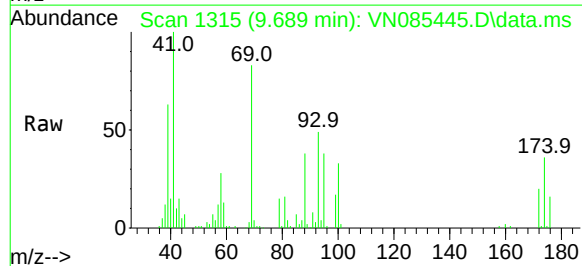
58 76.1 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#50

Toluene-d8

Concen: 52.302 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085445.D

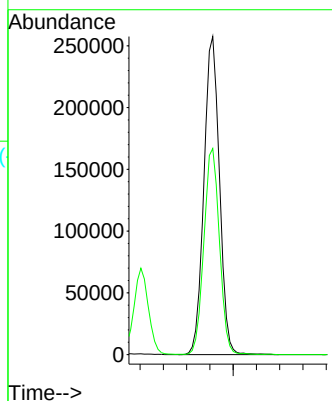
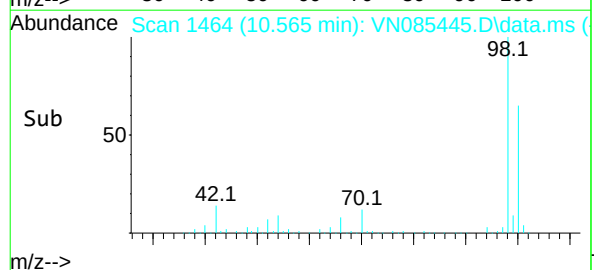
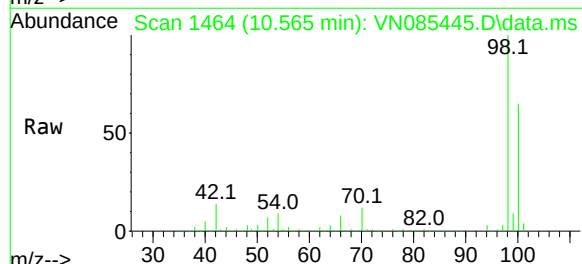
Acq: 14 Jan 2025 18:06

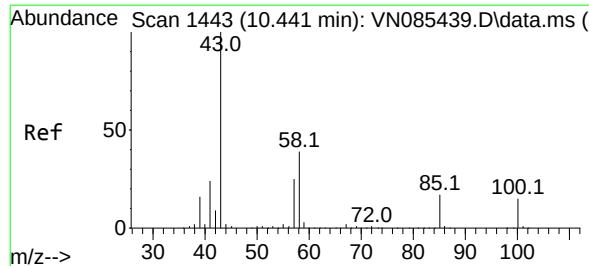
Tgt Ion: 98 Resp: 477630

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.4





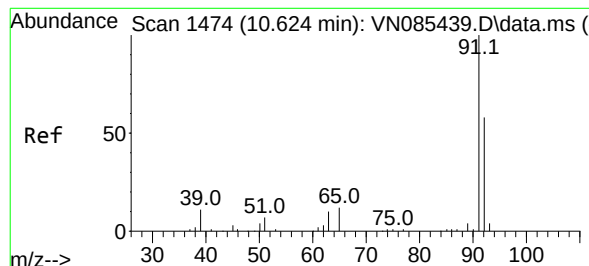
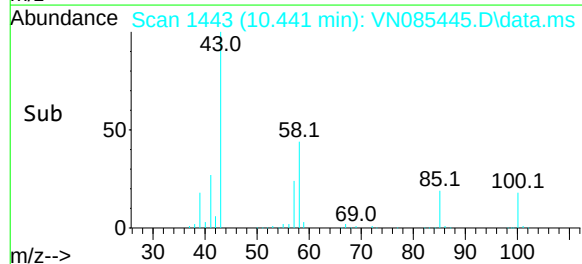
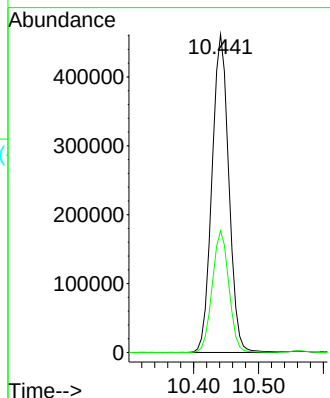
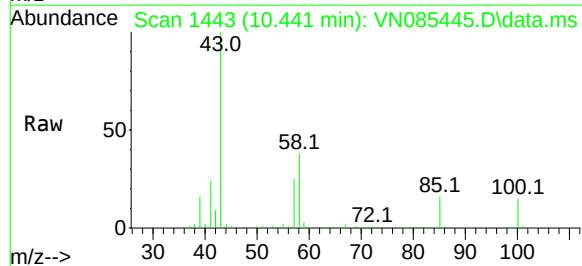
#51
4-Methyl-2-Pentanone
Concen: 245.877 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 43 Resp: 832426
Ion Ratio Lower Upper
43 100
58 37.8 30.5 45.7

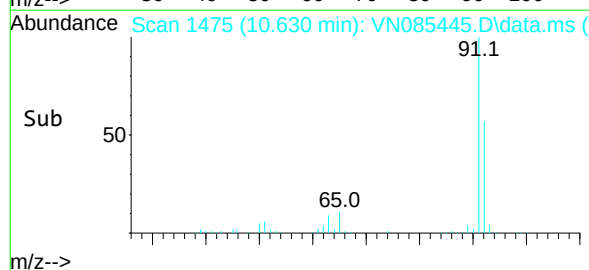
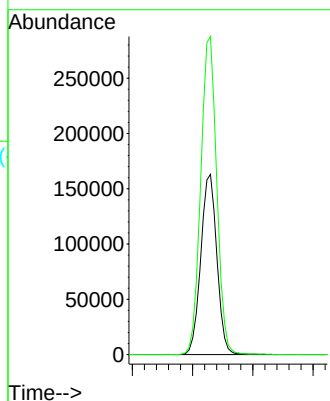
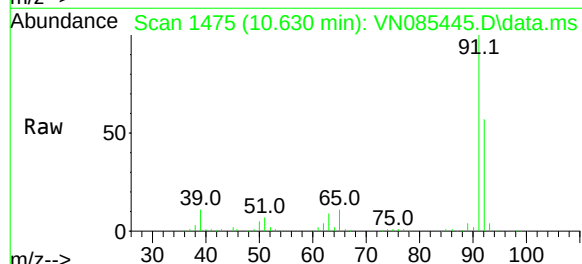
Manual Integrations
APPROVED

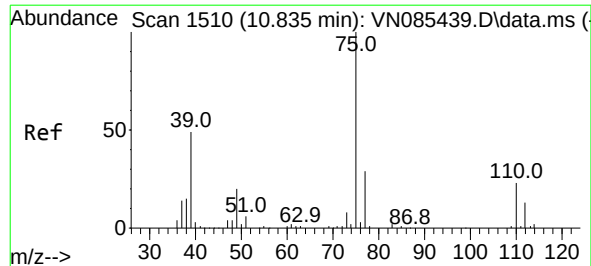
Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Toluene
Concen: 48.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 92 Resp: 301911
Ion Ratio Lower Upper
92 100
91 175.7 139.2 208.8





#53

t-1,3-Dichloropropene

Concen: 47.757 ug/l

RT: 10.830 min Scan# 1510

Delta R.T. -0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 75 Resp: 183680

Ion Ratio Lower Upper

75 100

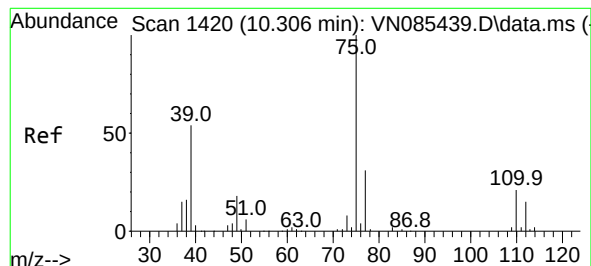
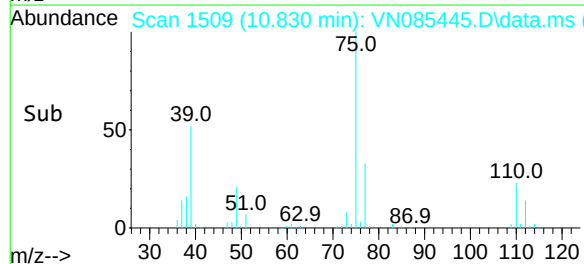
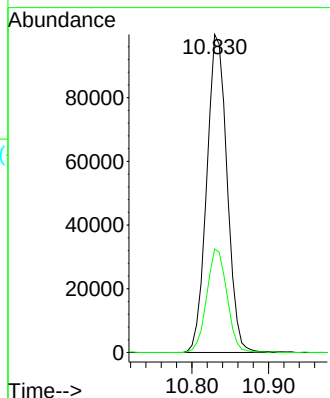
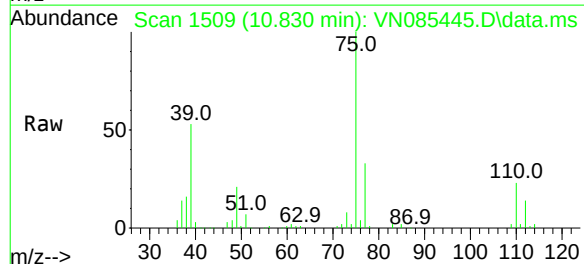
77 32.6 23.5 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#54

cis-1,3-Dichloropropene

Concen: 47.783 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

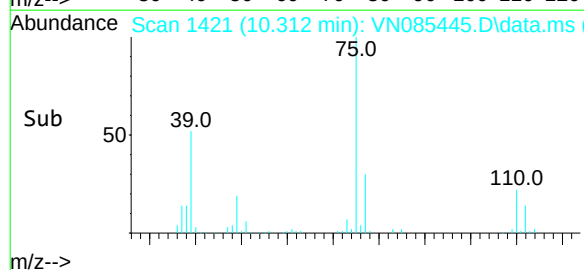
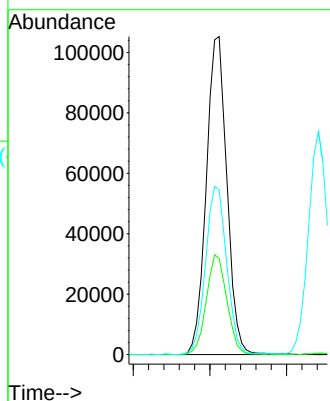
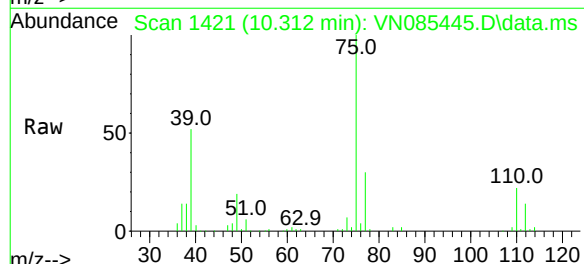
Tgt Ion: 75 Resp: 196307

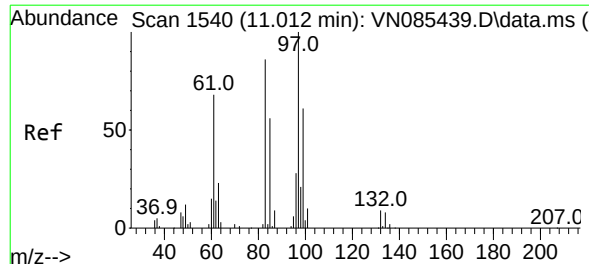
Ion Ratio Lower Upper

75 100

77 30.2 25.0 37.4

39 51.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 46.173 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVNV011425

Tgt Ion: 97 Resp: 114757

Ion Ratio Lower Upper

97 100

83 83.7 69.0 103.6

85 53.2 44.6 66.8

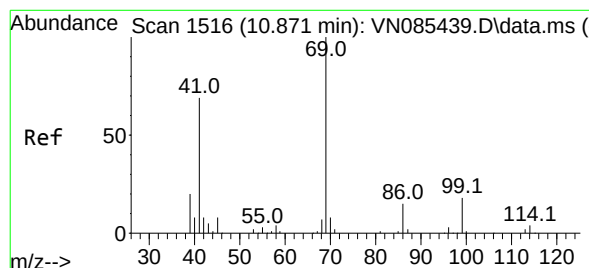
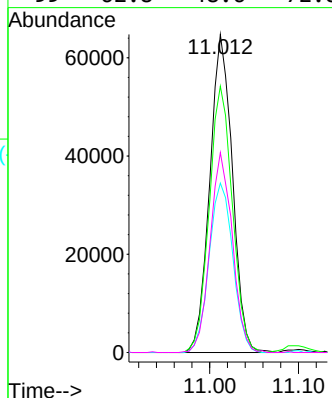
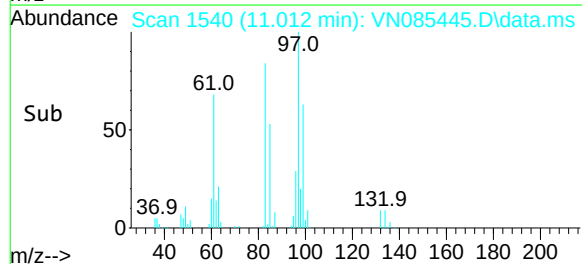
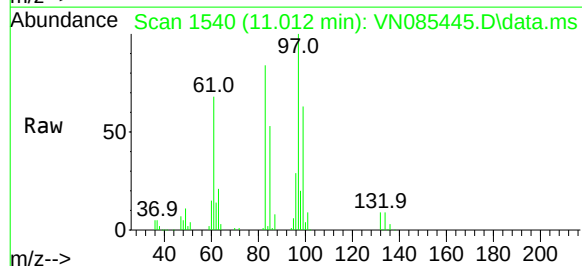
99 62.8 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#56

Ethyl methacrylate

Concen: 43.762 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

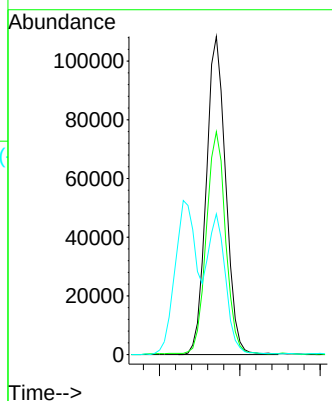
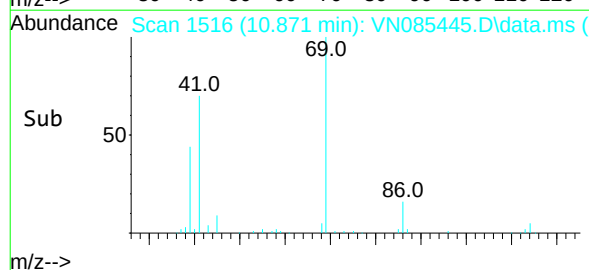
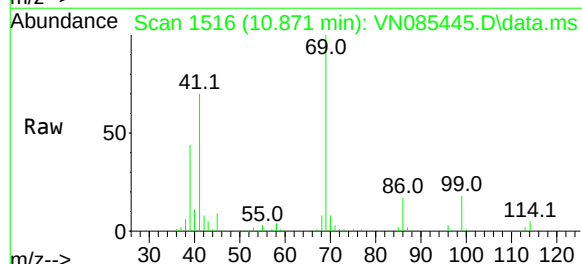
Tgt Ion: 69 Resp: 182170

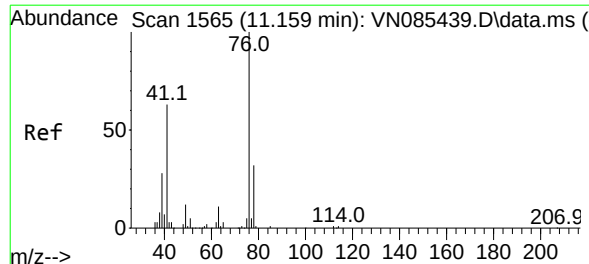
Ion Ratio Lower Upper

69 100

41 70.4 54.6 82.0

39 40.2 32.4 48.6





#57

1,3-Dichloropropane

Concen: 46.877 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 76 Resp: 202583

Ion Ratio Lower Upper

76 100

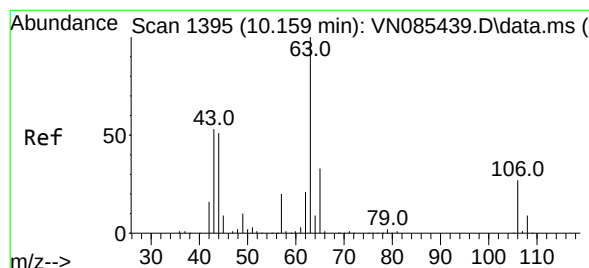
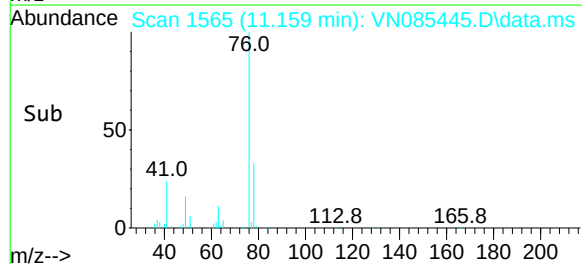
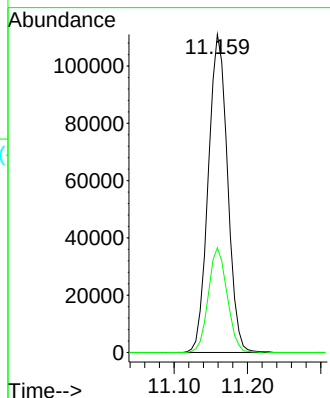
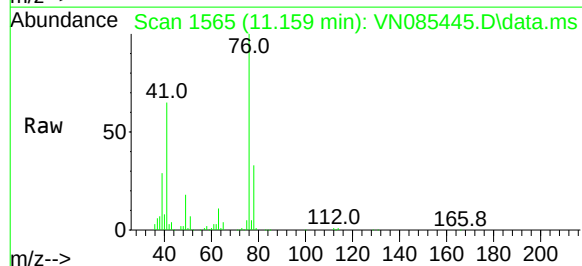
78 32.1 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#58

2-Chloroethyl Vinyl ether

Concen: 256.116 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085445.D

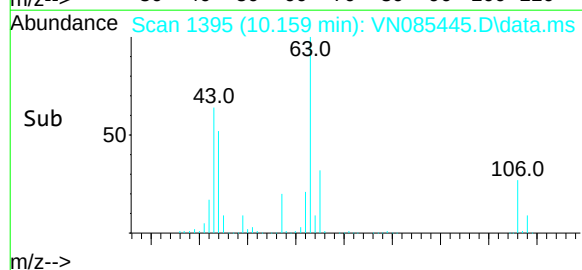
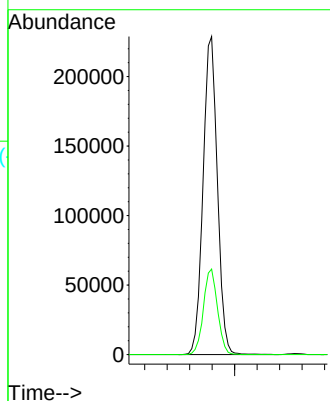
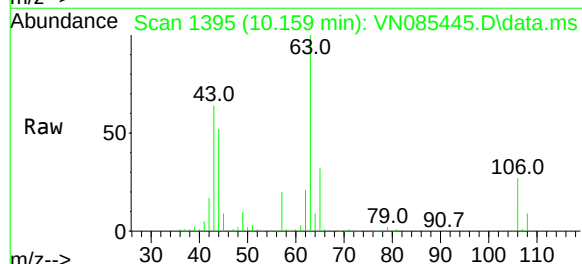
Acq: 14 Jan 2025 18:06

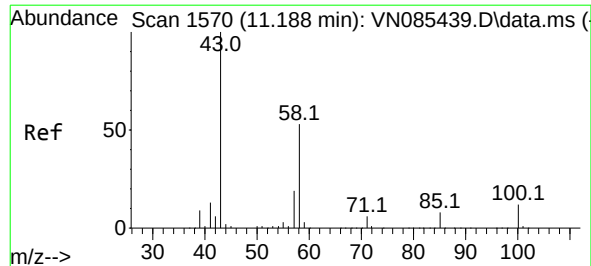
Tgt Ion: 63 Resp: 403949

Ion Ratio Lower Upper

63 100

106 26.4 21.6 32.4





#59

2-Hexanone

Concen: 251.213 ug/l

RT: 11.194 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 43 Resp: 598433

Ion Ratio Lower Upper

43 100

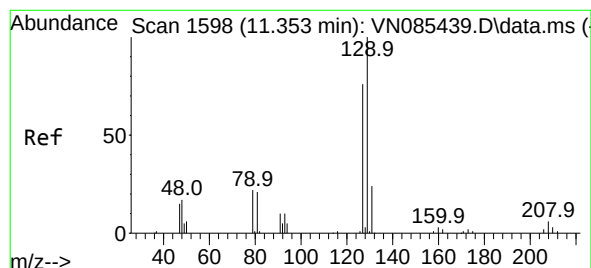
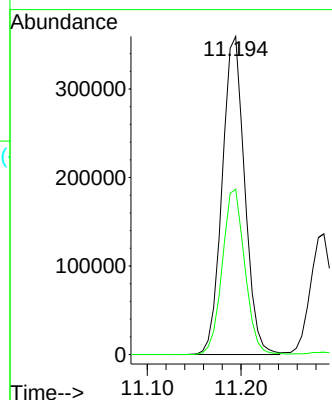
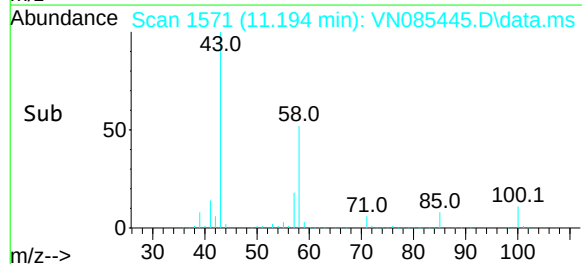
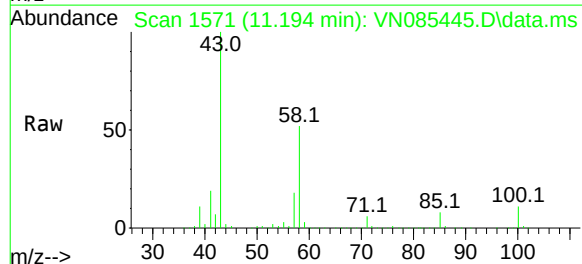
58 52.1 26.2 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#60

Dibromochloromethane

Concen: 45.935 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085445.D

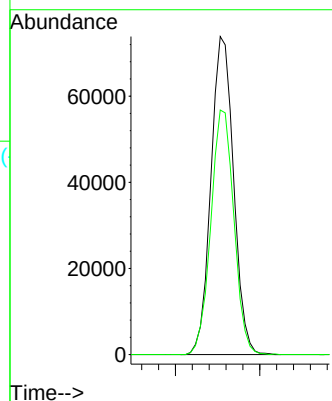
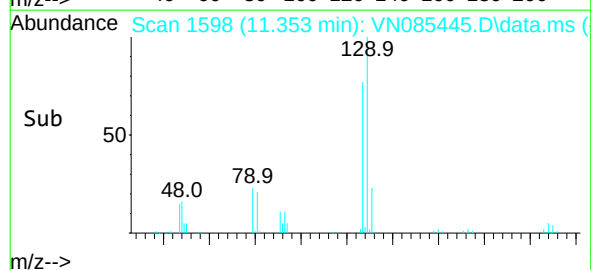
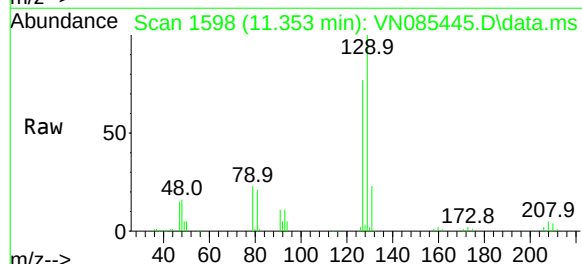
Acq: 14 Jan 2025 18:06

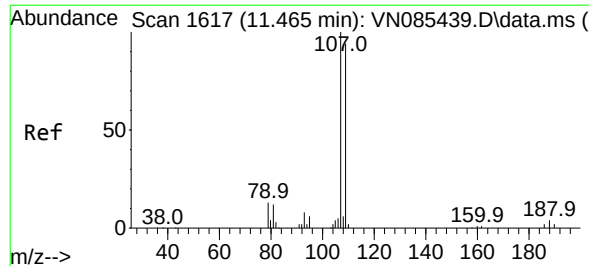
Tgt Ion:129 Resp: 137831

Ion Ratio Lower Upper

129 100

127 78.1 38.6 115.8





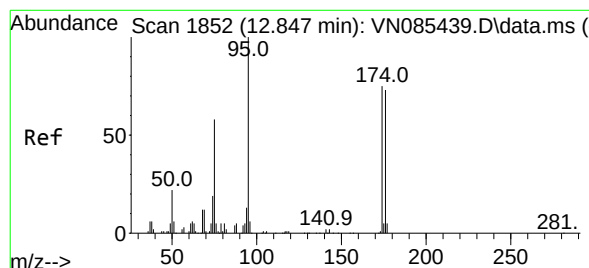
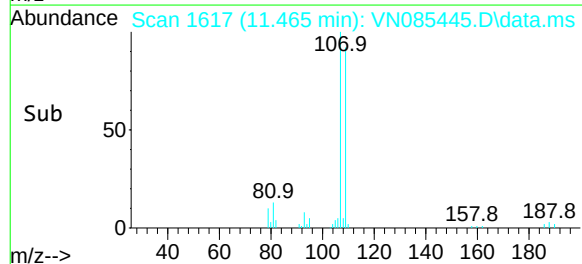
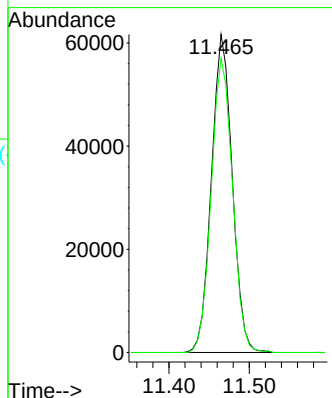
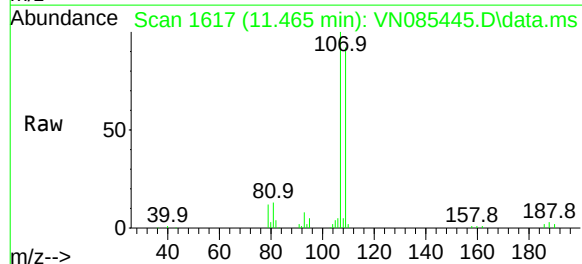
#61
1,2-Dibromoethane
Concen: 44.837 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 107 Resp: 110926
Ion Ratio Lower Upper
107 100
109 94.7 75.9 113.9

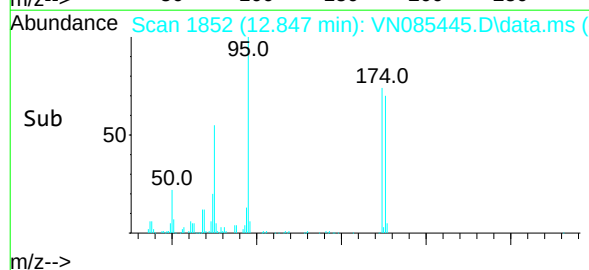
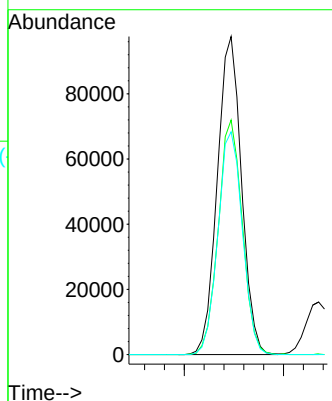
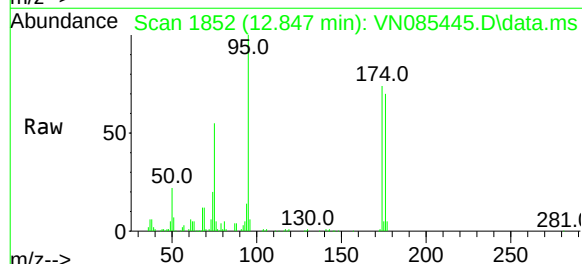
Manual Integrations
APPROVED

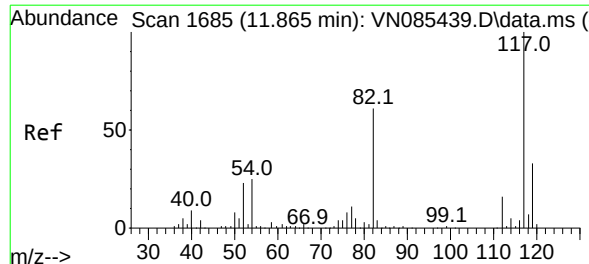
Reviewed By : John Carlone 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 95 Resp: 165249
Ion Ratio Lower Upper
95 100
174 73.1 0.0 145.0
176 70.8 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN011425

Tgt Ion:117 Resp: 320948

Ion Ratio Lower Upper

117 100

82 60.1 48.6 72.8

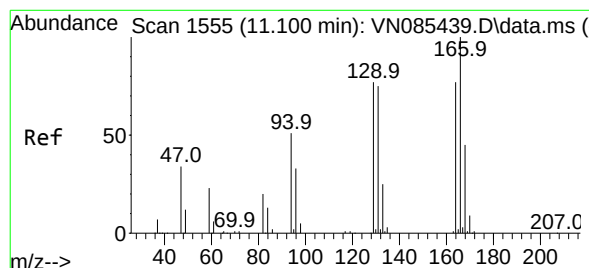
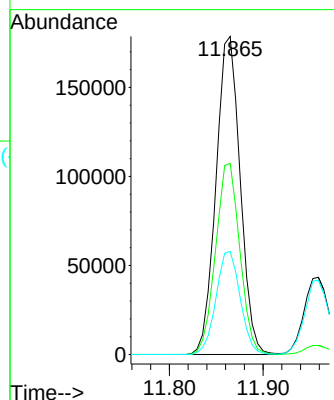
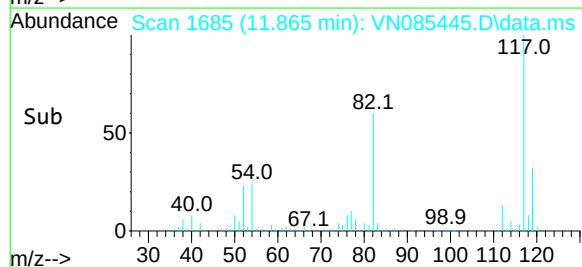
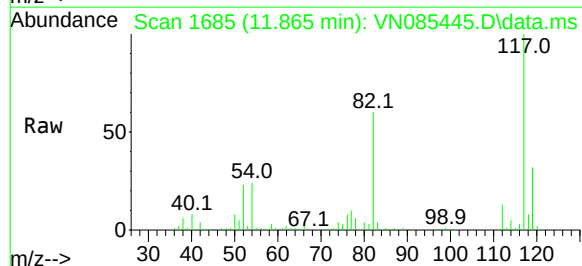
119 32.4 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#64

Tetrachloroethene

Concen: 44.886 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:164 Resp: 98211

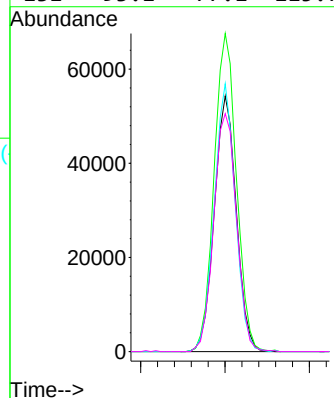
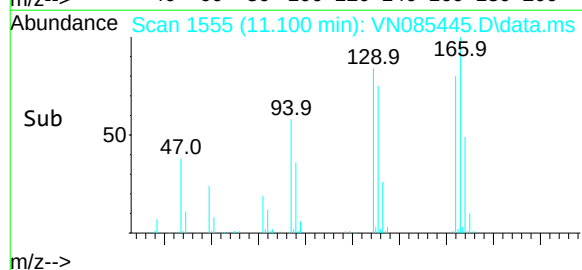
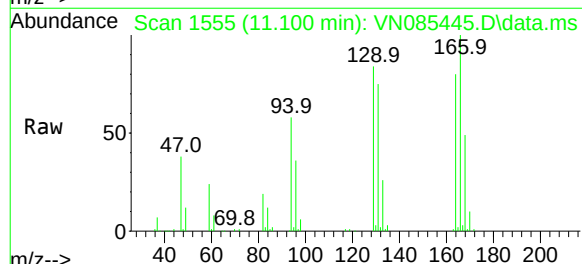
Ion Ratio Lower Upper

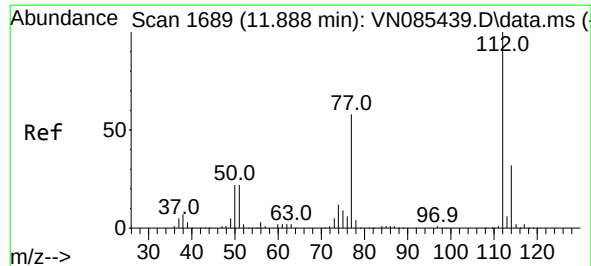
164 100

166 124.4 103.4 155.2

129 104.8 79.2 118.8

131 93.1 77.1 115.7





#65

Chlorobenzene

Concen: 45.901 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:112 Resp: 322723

Ion Ratio Lower Upper

112 100

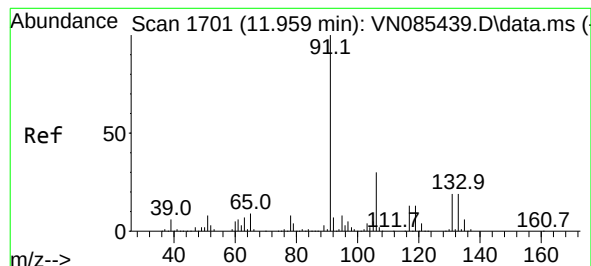
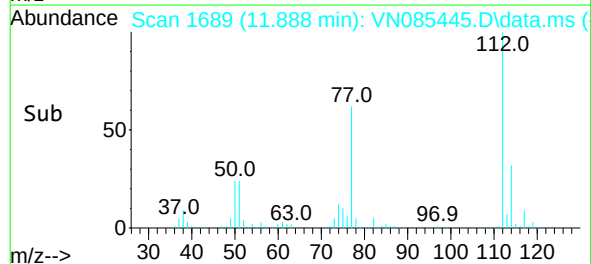
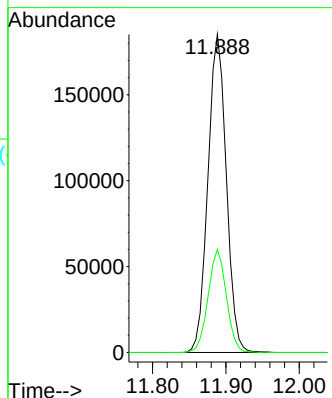
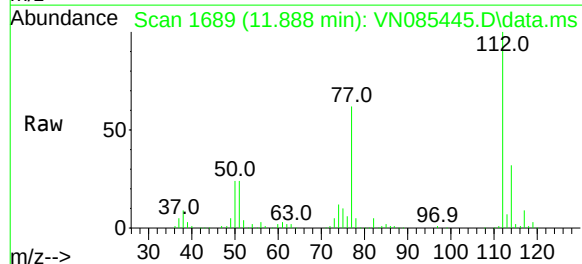
114 32.4 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 44.712 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

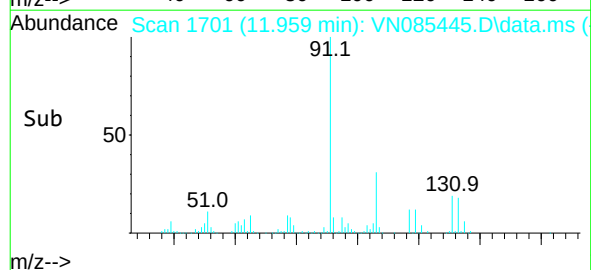
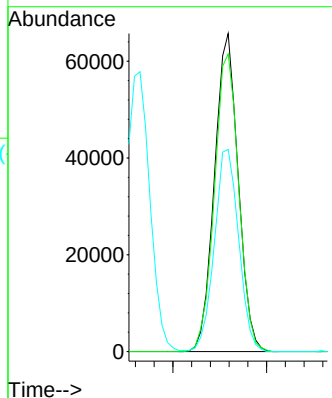
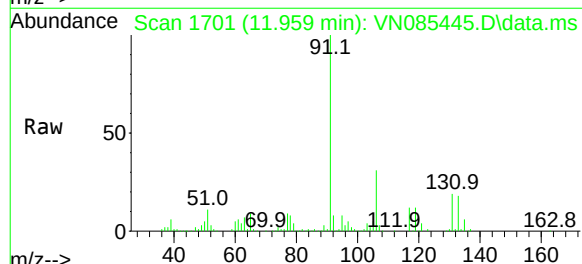
Tgt Ion:131 Resp: 115379

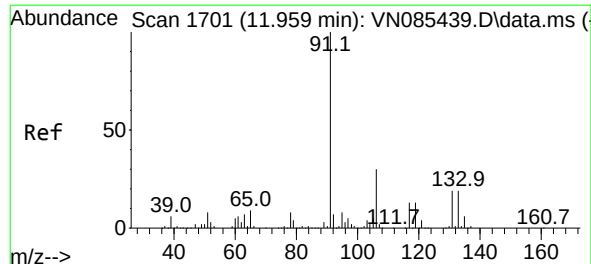
Ion Ratio Lower Upper

131 100

133 95.8 47.4 142.3

119 65.2 33.1 99.5





#67

Ethyl Benzene

Concen: 50.391 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 91 Resp: 577059

Ion Ratio Lower Upper

91 100

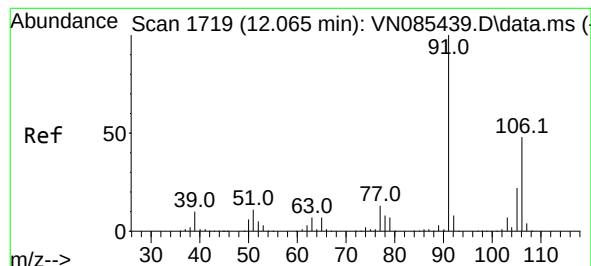
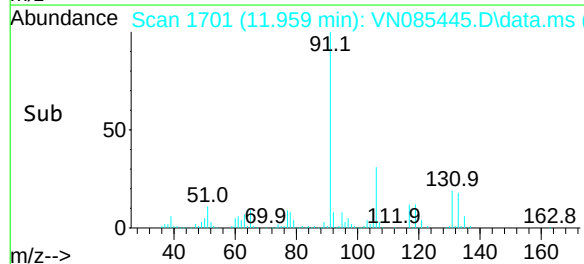
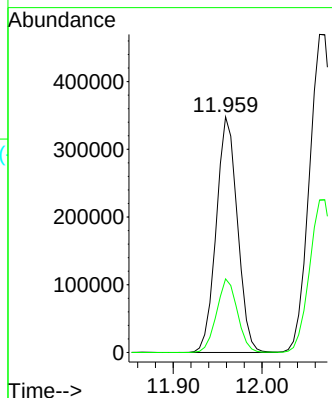
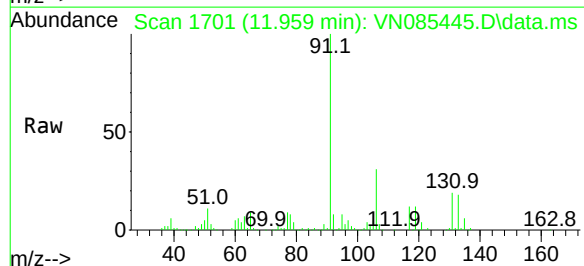
106 31.2 23.8 35.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

m/p-Xylenes

Concen: 103.341 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085445.D

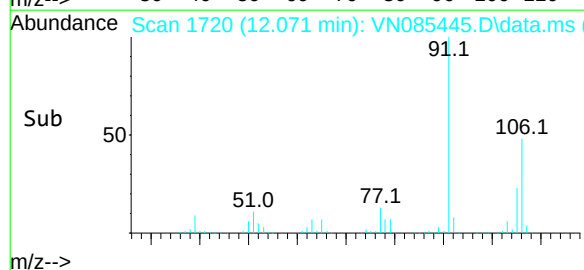
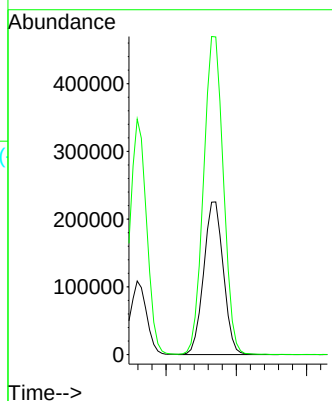
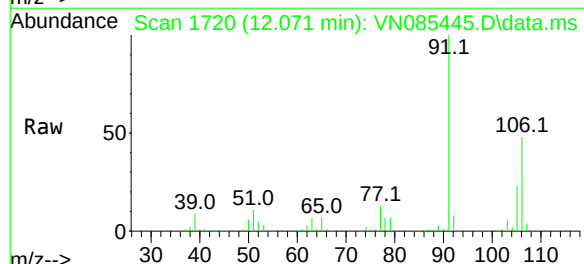
Acq: 14 Jan 2025 18:06

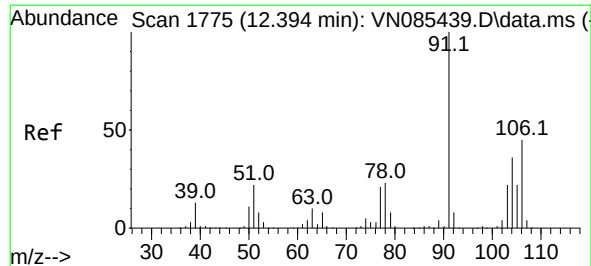
Tgt Ion:106 Resp: 437367

Ion Ratio Lower Upper

106 100

91 210.1 167.7 251.5





#69

o-Xylene

Concen: 52.093 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN011425

Tgt Ion:106 Resp: 210698

Ion Ratio Lower Upper

106 100

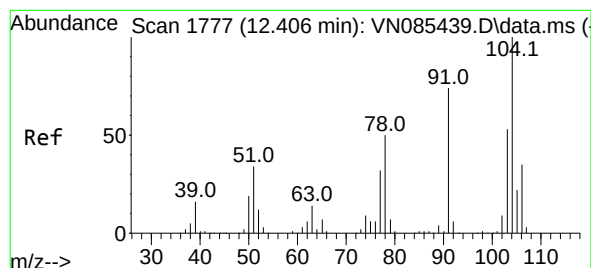
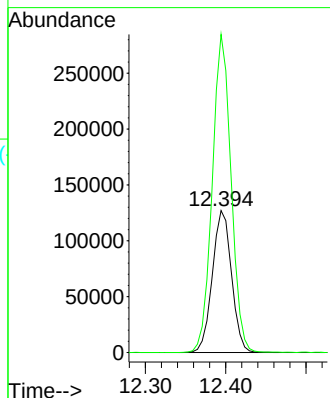
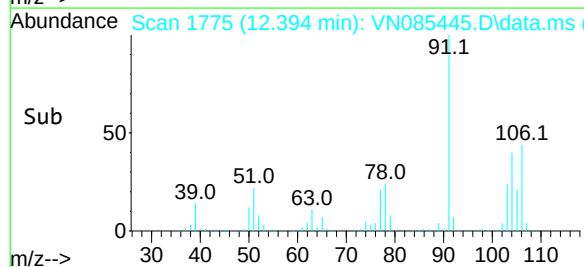
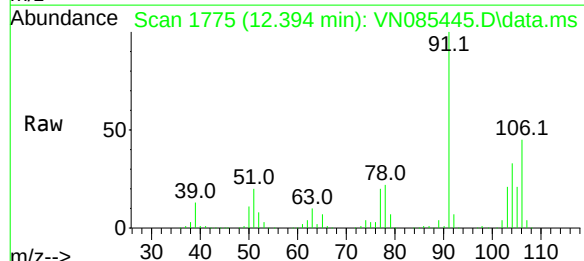
91 219.9 110.4 331.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#70

Styrene

Concen: 53.103 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

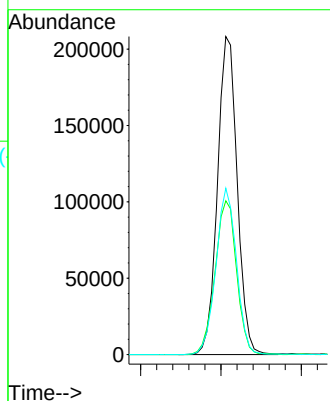
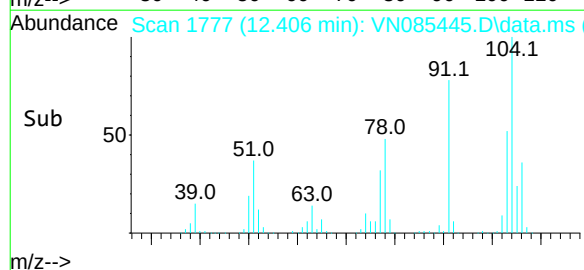
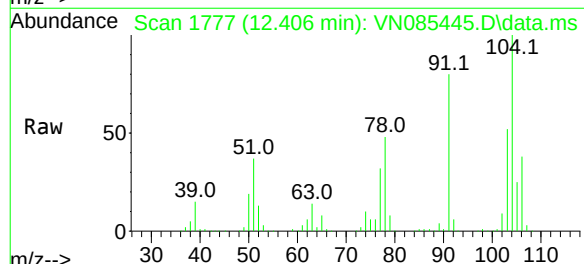
Tgt Ion:104 Resp: 355459

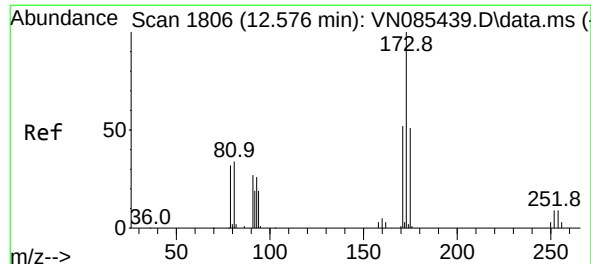
Ion Ratio Lower Upper

104 100

78 52.8 42.5 63.7

103 54.5 43.8 65.8





#71

Bromoform

Concen: 49.119 ug/l

RT: 12.577 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

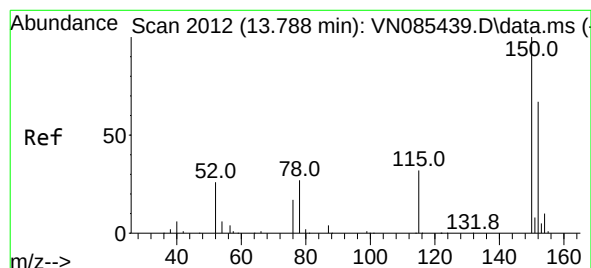
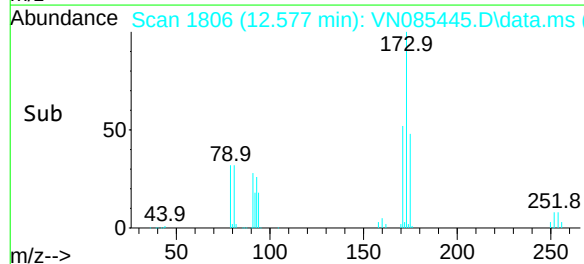
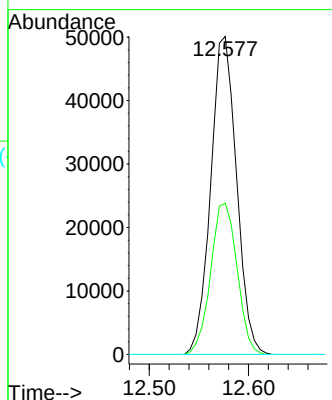
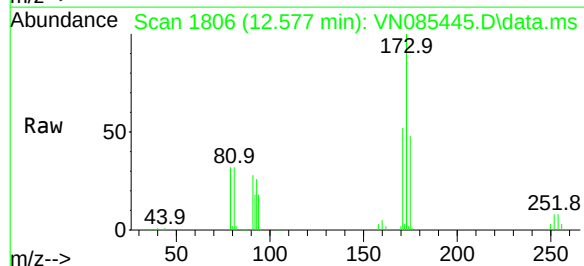
ClientSampleId :

ICVVN011425

Tgt Ion:	173	Resp:	90693
Ion Ratio	Lower	Upper	
173	100		
175	48.7	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

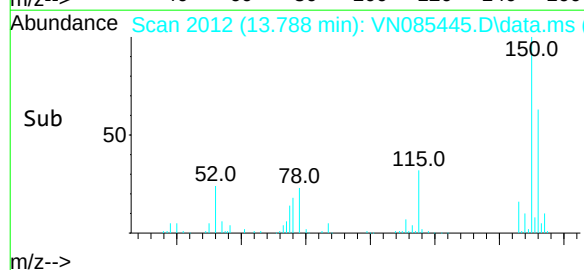
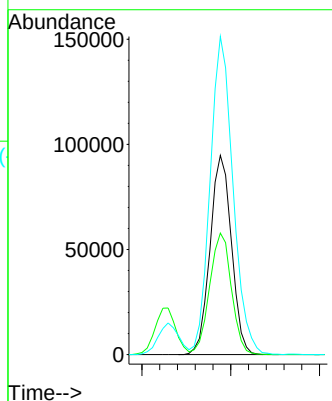
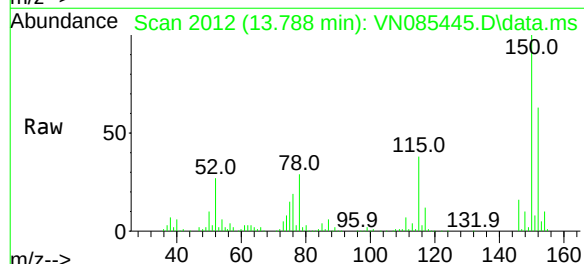
RT: 13.788 min Scan# 2012

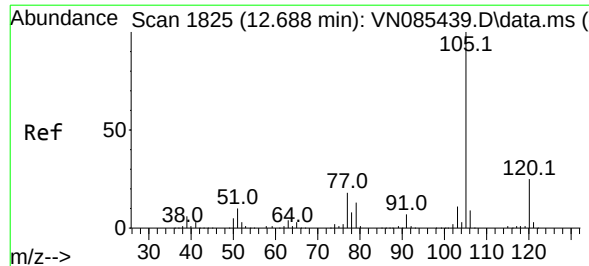
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	152	Resp:	158525
Ion Ratio	Lower	Upper	
152	100		
115	62.2	31.1	93.3
150	171.0	0.0	343.6





#73

Isopropylbenzene

Concen: 49.951 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVNV011425

Tgt Ion: 105 Resp: 534428

Ion Ratio Lower Upper

105 100

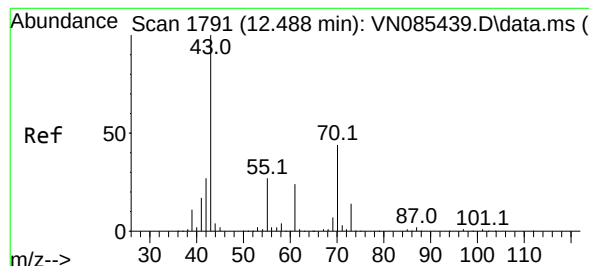
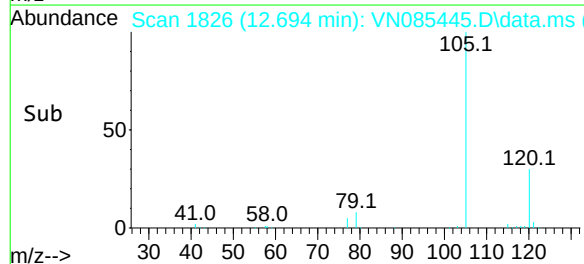
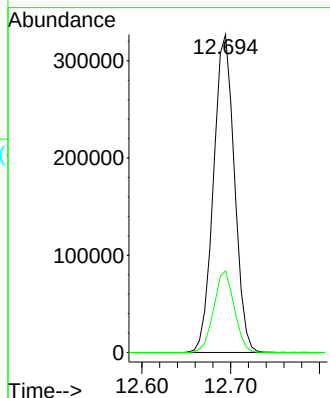
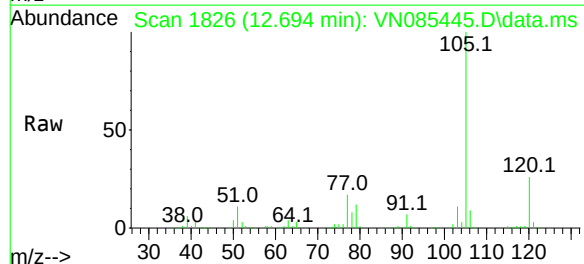
120 25.2 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#74

N-ethyl acetate

Concen: 48.730 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 234342

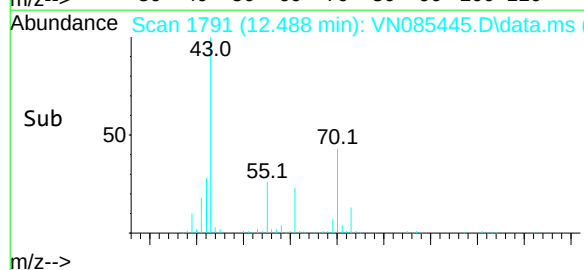
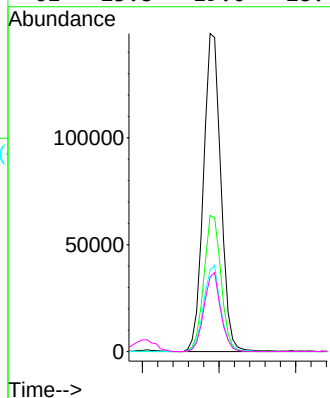
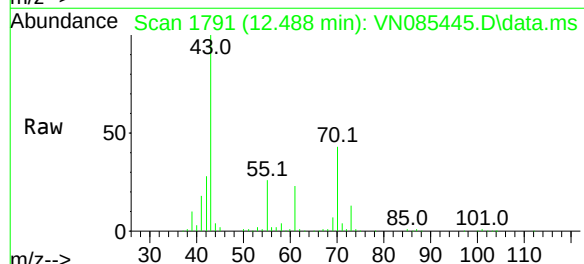
Ion Ratio Lower Upper

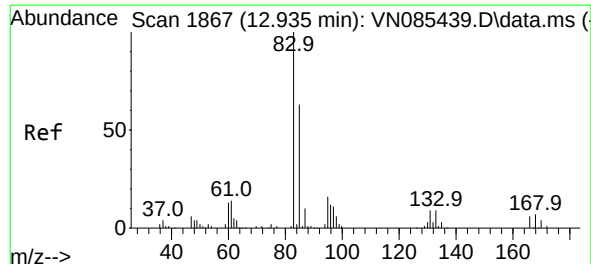
43 100

70 42.2 34.0 51.0

55 26.5 21.4 32.2

61 23.8 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 43.627 ug/l

RT: 12.935 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

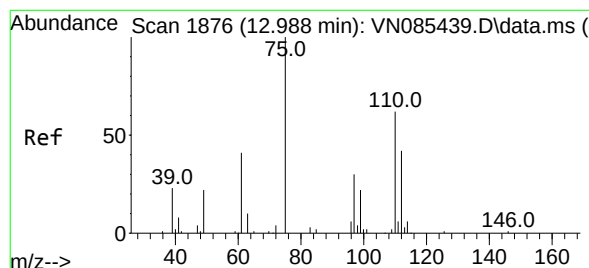
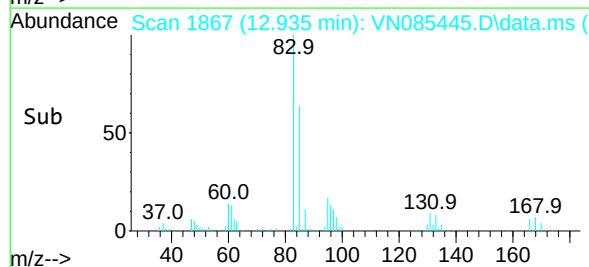
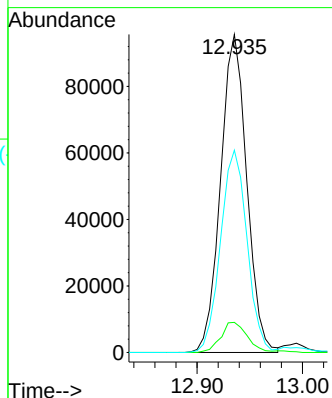
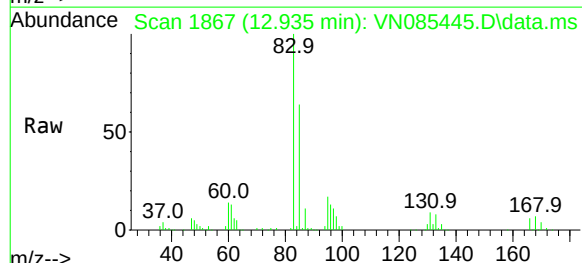
ClientSampleId :

ICVVN011425

Tgt Ion:	83	Resp:	164882
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	64.6	32.2	96.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#76

1,2,3-Trichloropropane

Concen: 41.891 ug/l m

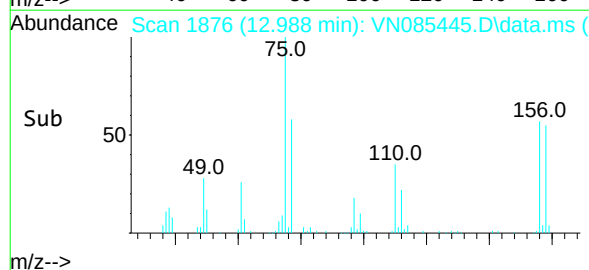
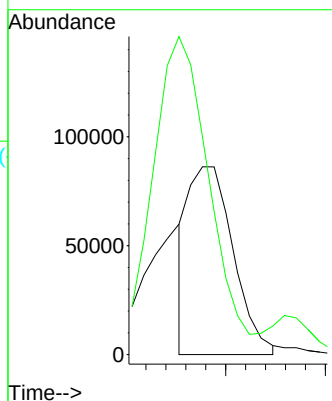
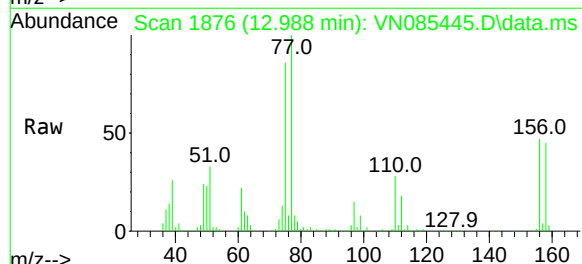
RT: 12.988 min Scan# 1876

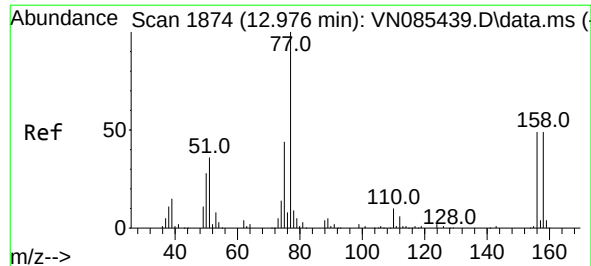
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	75	Resp:	134976
Ion	Ratio	Lower	Upper
75	100		
77	213.9	109.7	329.2





#77

Bromobenzene

Concen: 46.138 ug/l

RT: 12.977 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

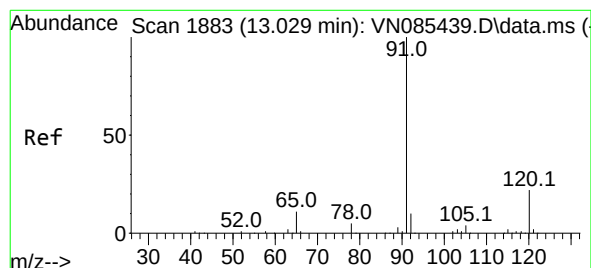
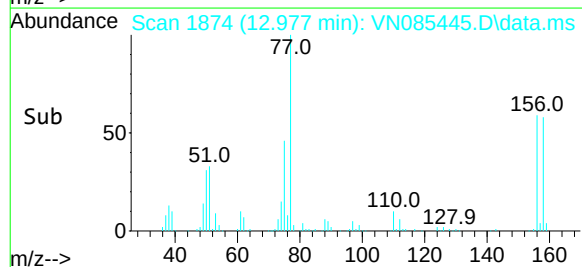
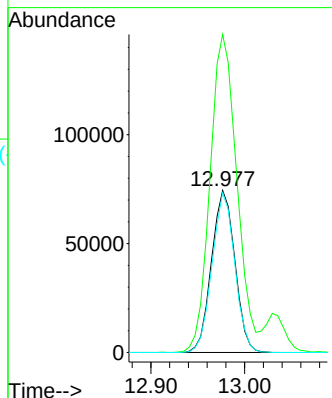
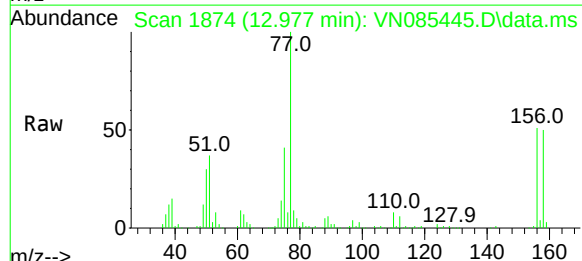
ClientSampleId :

ICVVN011425

Tgt Ion:	156	Resp:	128968
Ion Ratio	Lower	Upper	
156	100		
77	223.8	114.1	342.4
158	95.7	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#78

n-propylbenzene

Concen: 51.001 ug/l

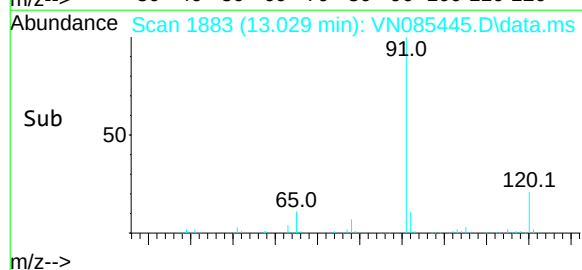
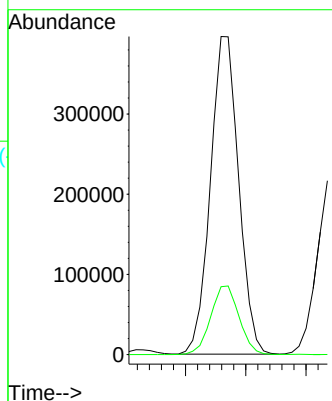
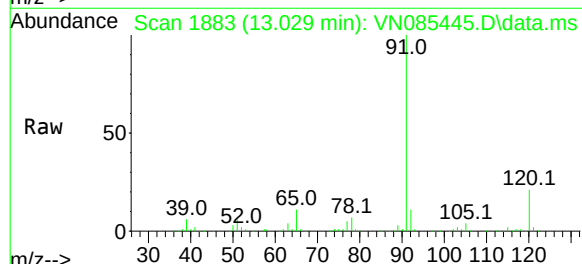
RT: 13.029 min Scan# 1883

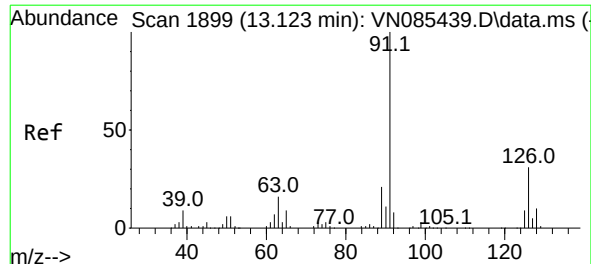
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	91	Resp:	645977
Ion Ratio	Lower	Upper	
91	100		
120	21.7	10.9	32.6





#79

2-Chlorotoluene

Concen: 47.870 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion: 91 Resp: 392404

Ion Ratio Lower Upper

91 100

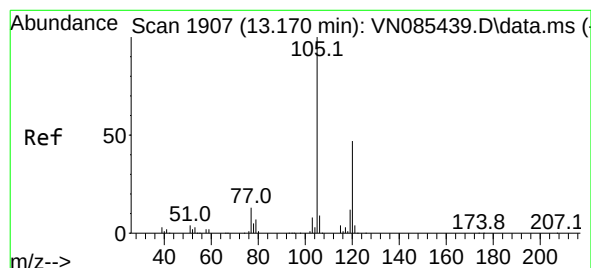
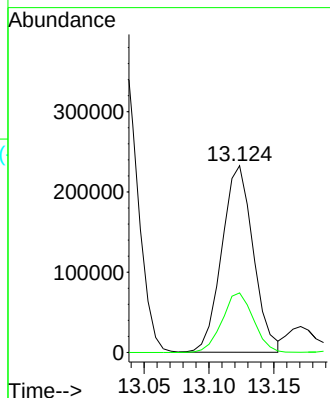
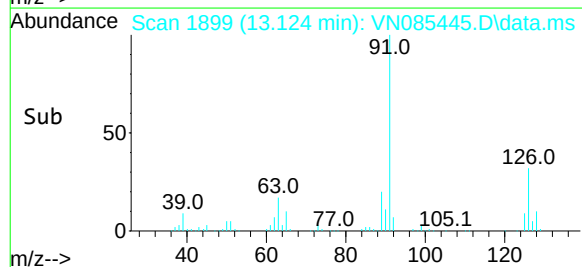
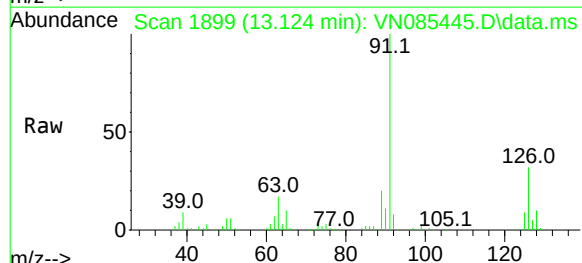
126 31.8 15.7 47.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.604 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085445.D

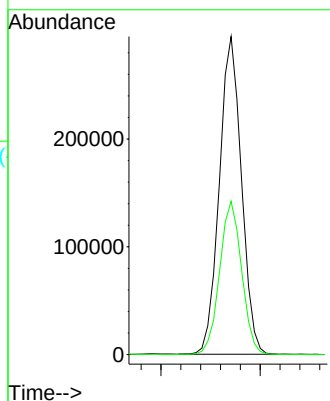
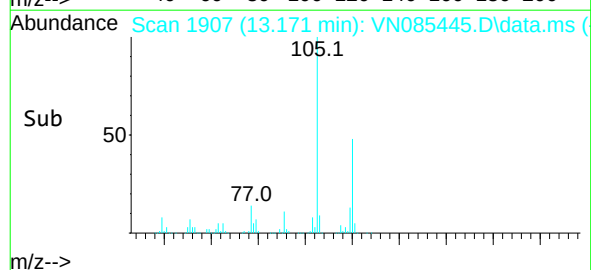
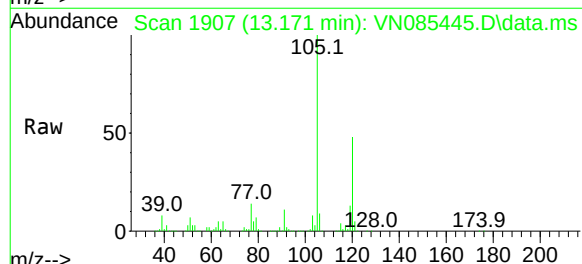
Acq: 14 Jan 2025 18:06

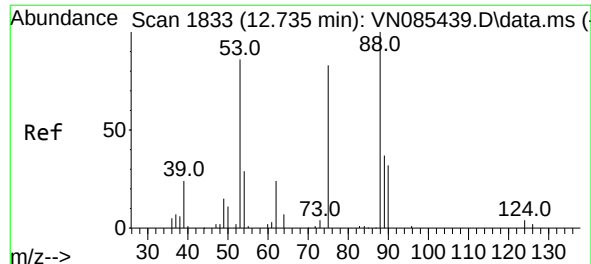
Tgt Ion:105 Resp: 456048

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 49.226 ug/l m

RT: 12.735 min Scan# 18

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

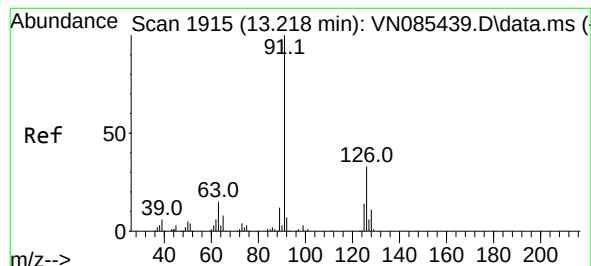
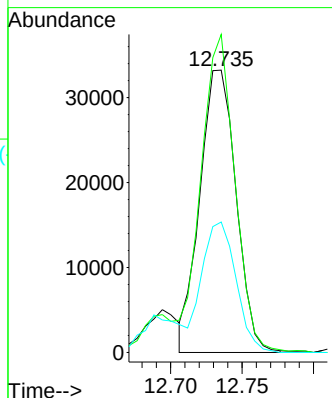
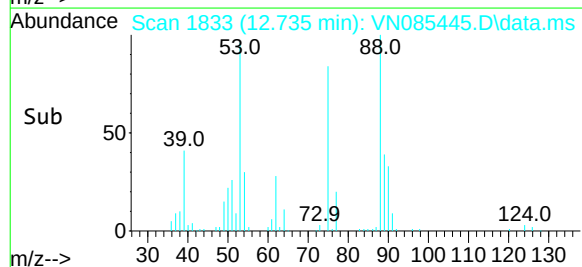
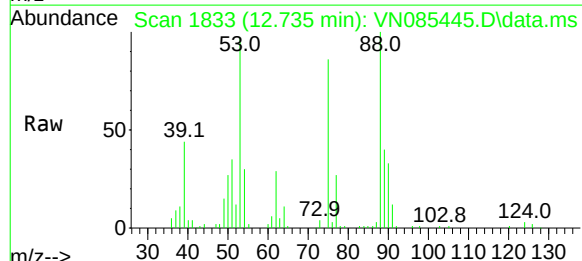
ClientSampleId :

ICVVN011425

Tgt Ion:	75	Resp:	58623
Ion	Ratio	Lower	Upper
75	100		
53	118.0	95.6	143.4
89	43.3	37.0	55.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#82

4-Chlorotoluene

Concen: 48.776 ug/l

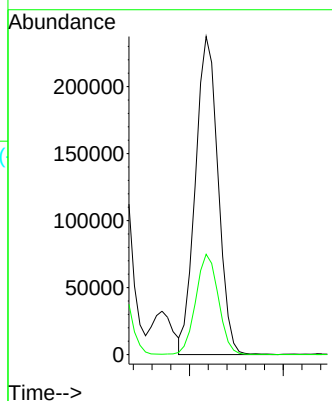
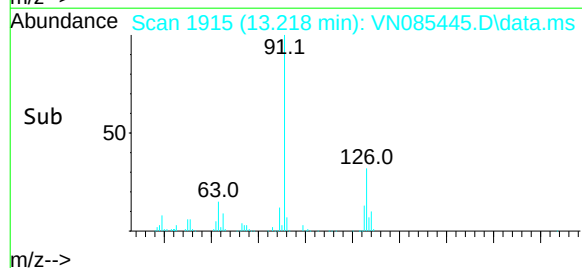
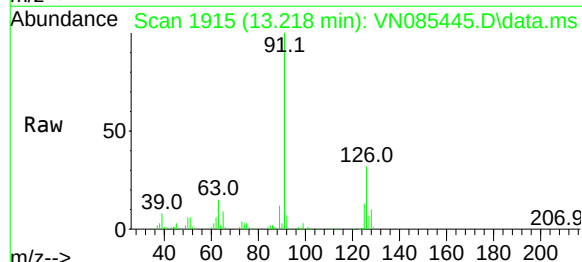
RT: 13.218 min Scan# 1915

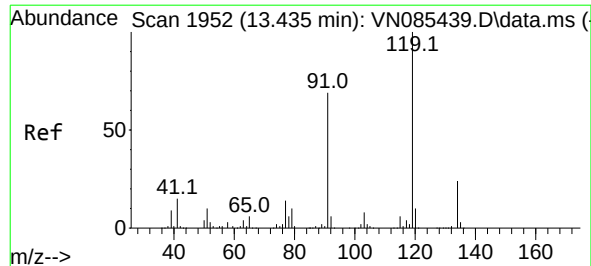
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	91	Resp:	398110
Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.9	47.7





#83

tert-Butylbenzene

Concen: 50.997 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:119 Resp: 378478

Ion Ratio Lower Upper

119 100

91 70.6 35.1 105.3

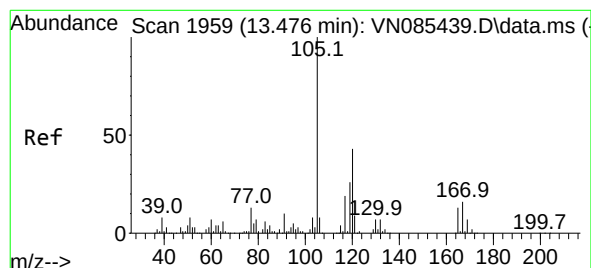
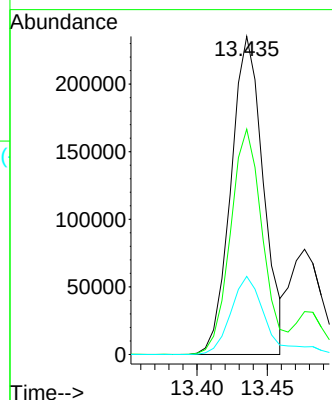
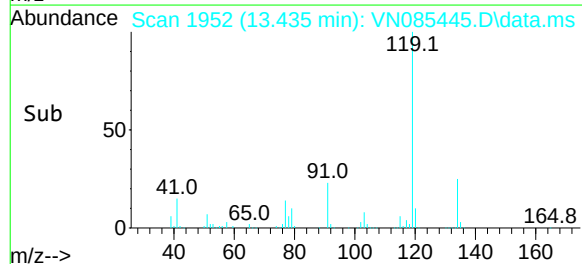
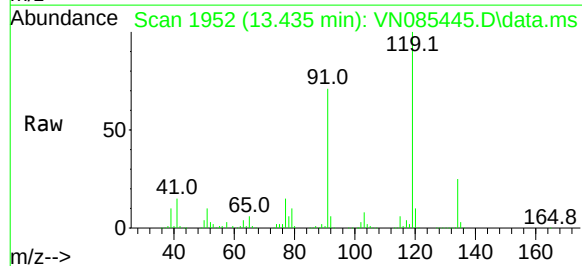
134 26.7 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.922 ug/l

RT: 13.477 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085445.D

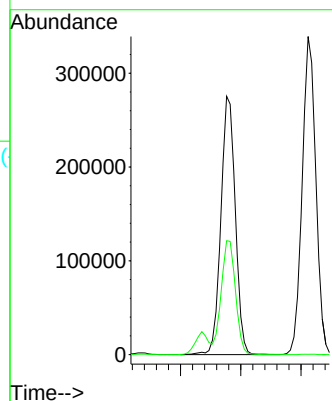
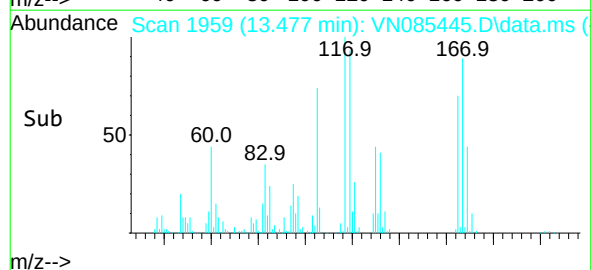
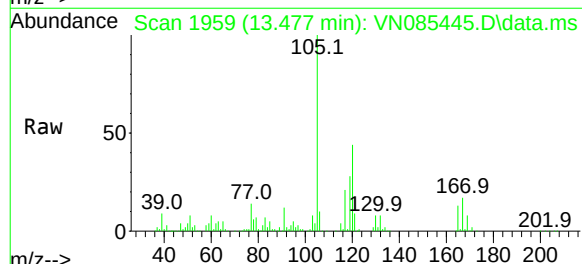
Acq: 14 Jan 2025 18:06

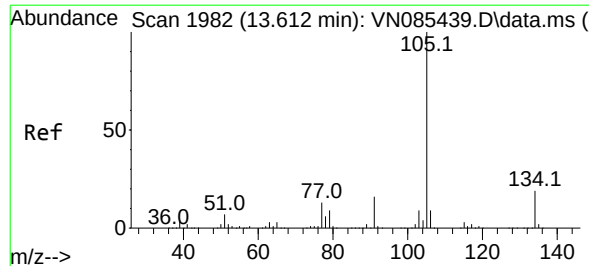
Tgt Ion:105 Resp: 457340

Ion Ratio Lower Upper

105 100

120 43.6 21.6 65.0





#85

sec-Butylbenzene

Concen: 51.777 ug/l

RT: 13.612 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

Tgt Ion:105 Resp: 532578

Ion Ratio Lower Upper

105 100

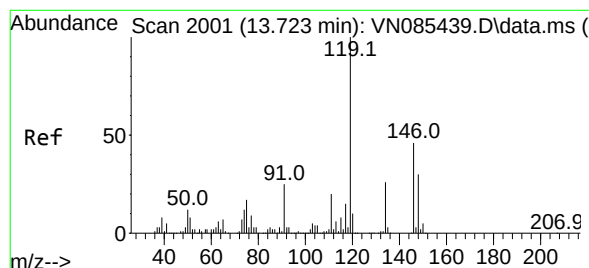
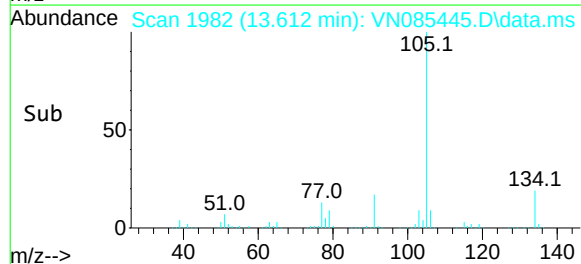
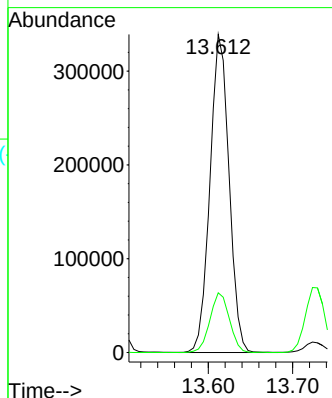
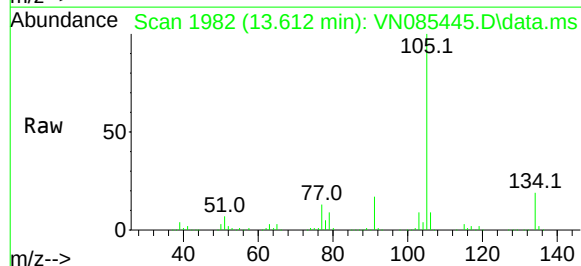
134 19.2 9.7 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#86

p-Isopropyltoluene

Concen: 47.795 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

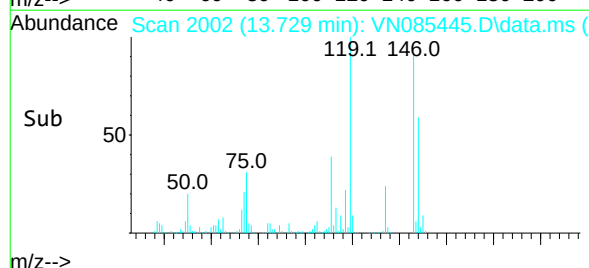
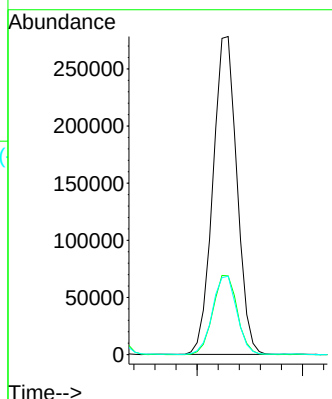
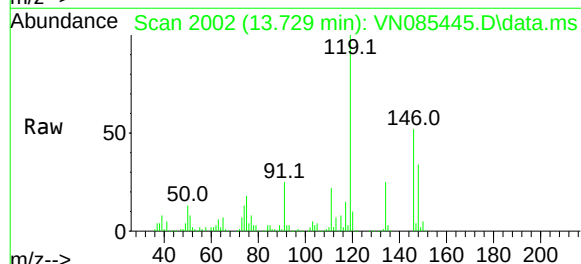
Tgt Ion:119 Resp: 440284

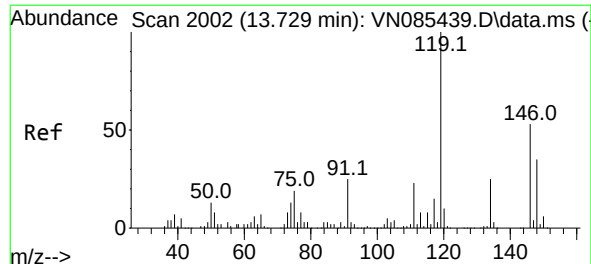
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.0

91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 45.920 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

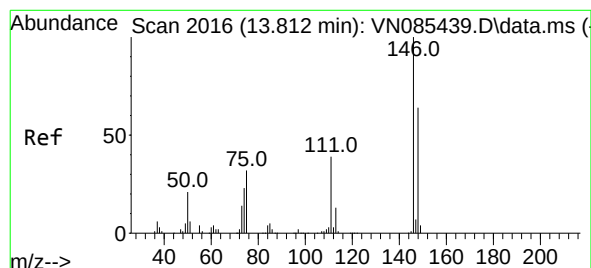
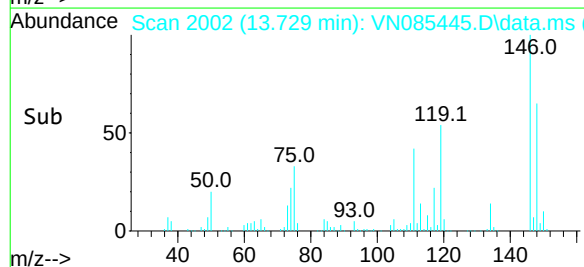
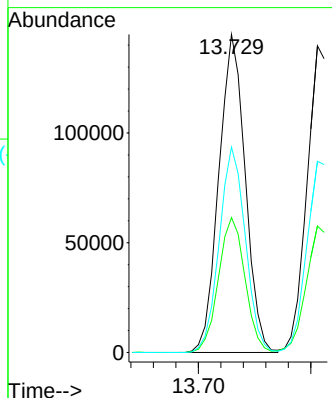
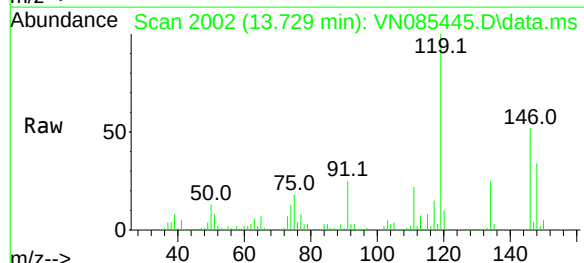
ICVVN011425

Tgt Ion:	146	Resp:	236387
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.4	64.3
148	63.8	32.3	96.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#88

1,4-Dichlorobenzene

Concen: 44.102 ug/l

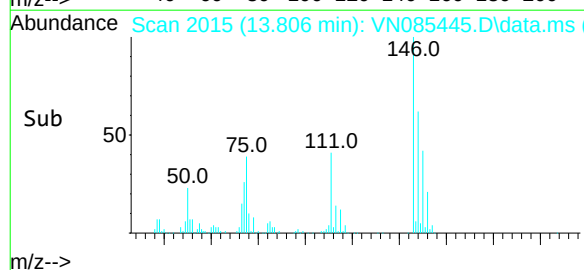
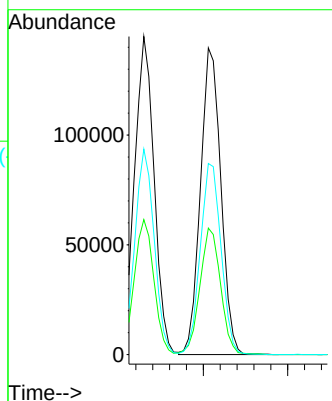
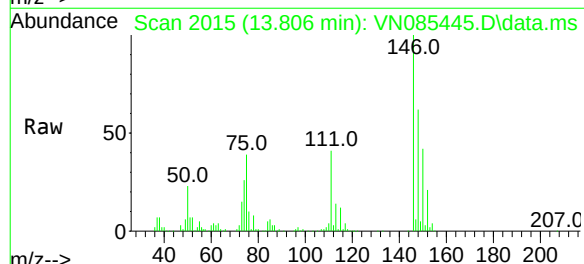
RT: 13.806 min Scan# 2015

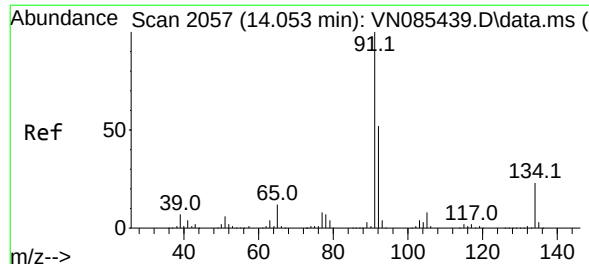
Delta R.T. -0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	146	Resp:	235319
Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.3	63.7
148	63.5	32.4	97.0





#89

n-Butylbenzene

Concen: 50.578 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

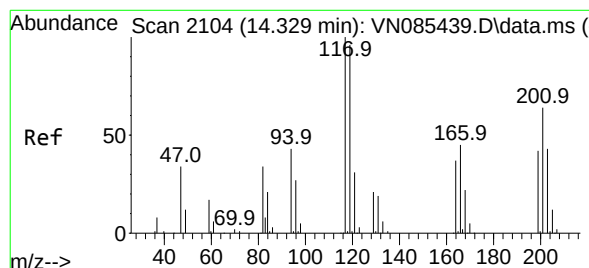
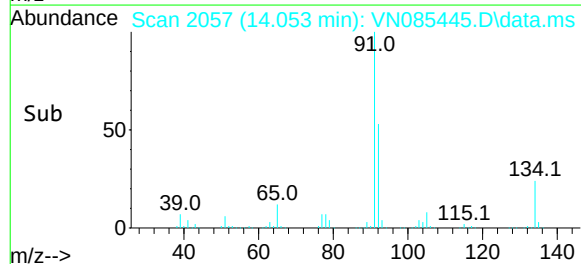
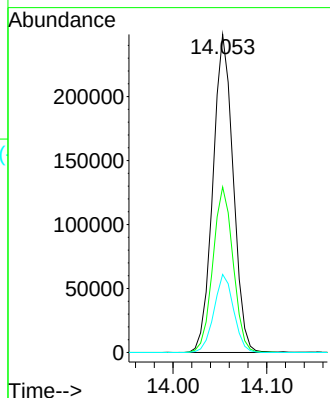
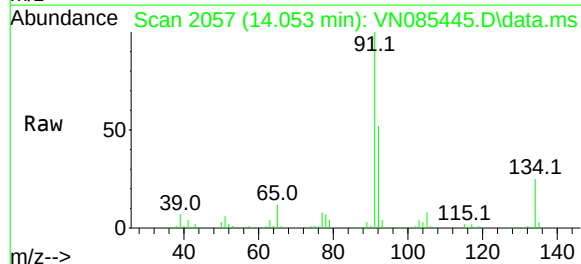
ClientSampleId :

ICVVN011425

Tgt Ion:	91	Resp:	373227
Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	23.8	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#90

Hexachloroethane

Concen: 45.215 ug/l

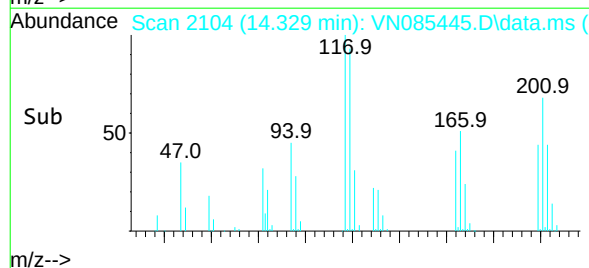
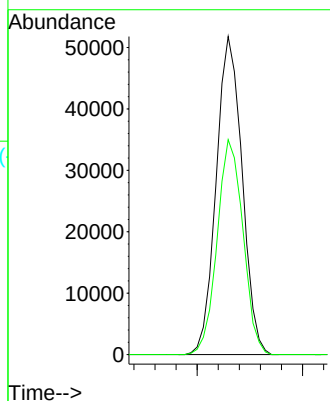
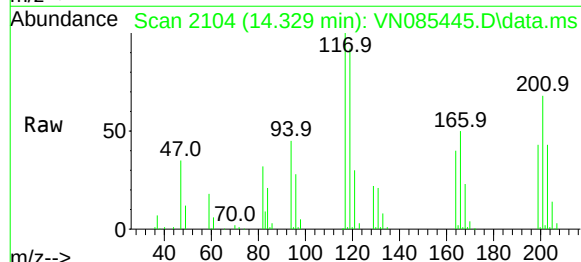
RT: 14.329 min Scan# 2104

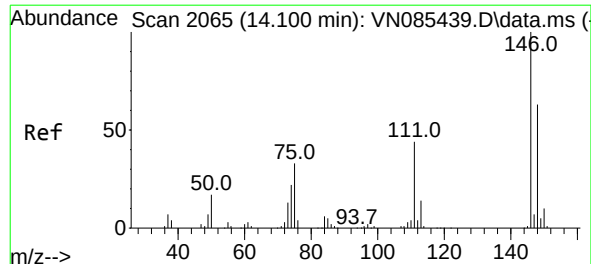
Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	117	Resp:	88538
Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 45.113 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVNV011425

Tgt Ion:146 Resp: 231646

Ion Ratio Lower Upper

146 100

111 43.9 21.7 65.1

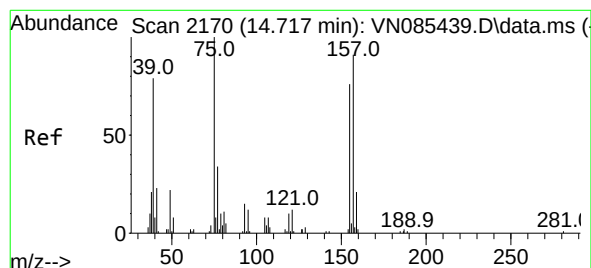
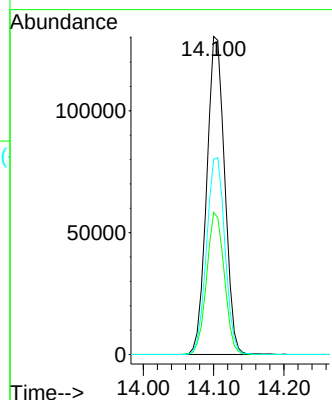
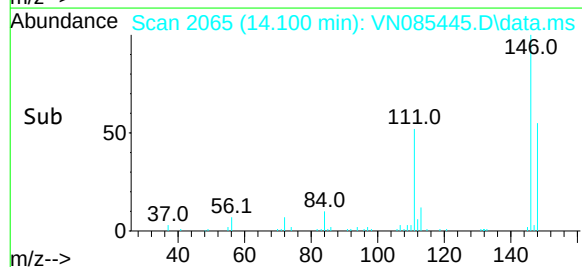
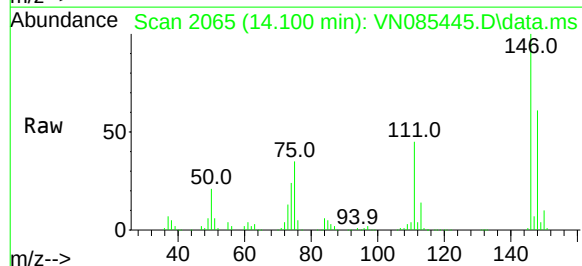
148 63.1 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.221 ug/l

RT: 14.718 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

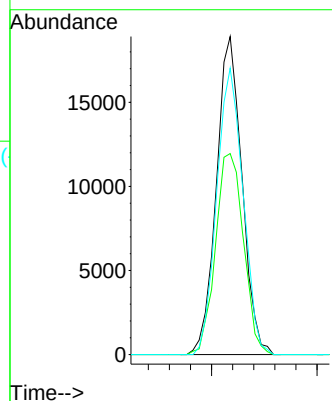
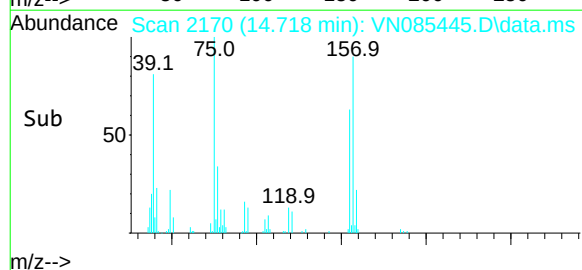
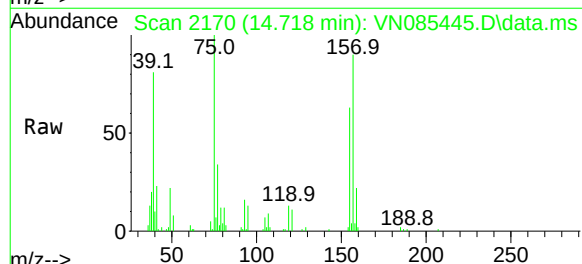
Tgt Ion: 75 Resp: 31899

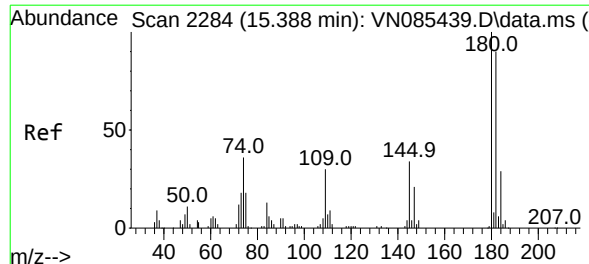
Ion Ratio Lower Upper

75 100

155 69.0 36.4 109.2

157 92.3 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 45.739 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085445.D

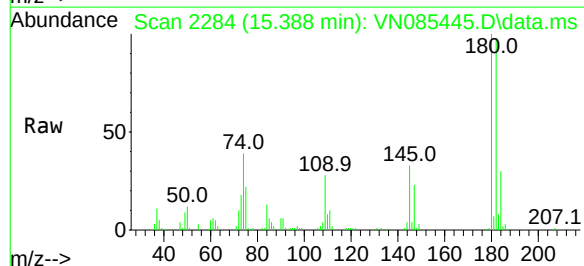
Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

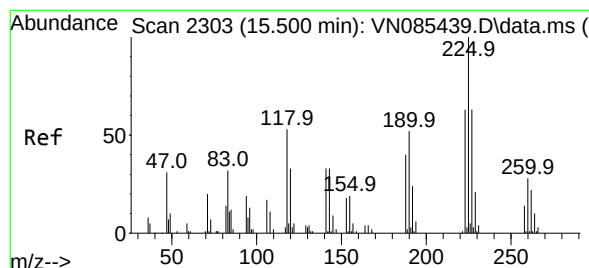
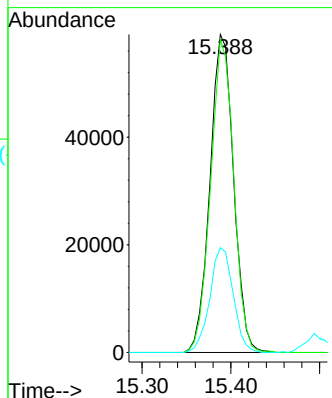
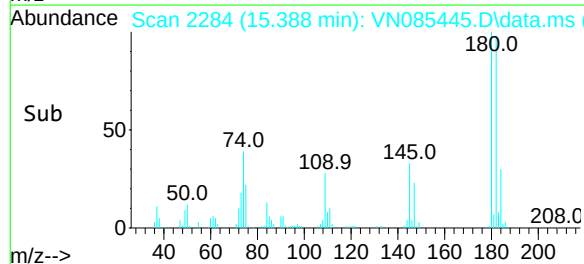
ICVVN011425



Tgt Ion:	180	Resp:	109157
Ion Ratio	Lower	Upper	
180	100		
182	96.3	46.8	140.3
145	32.7	16.0	48.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#94

Hexachlorobutadiene

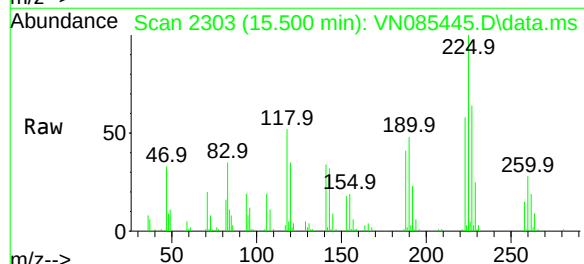
Concen: 42.112 ug/l

RT: 15.500 min Scan# 2303

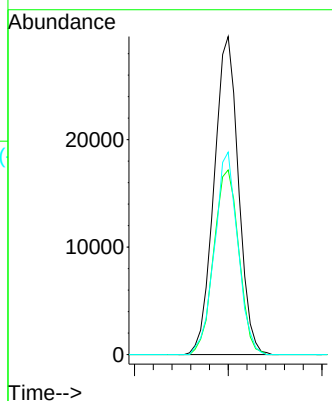
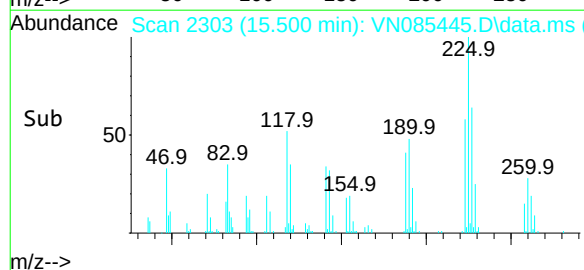
Delta R.T. 0.000 min

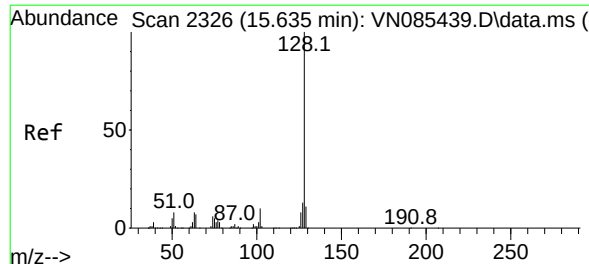
Lab File: VN085445.D

Acq: 14 Jan 2025 18:06



Tgt Ion:	225	Resp:	53358
Ion Ratio	Lower	Upper	
225	100		
223	59.8	30.7	92.1
227	61.2	30.9	92.5





#95

Naphthalene

Concen: 47.116 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

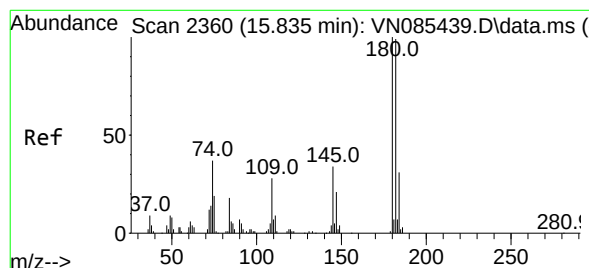
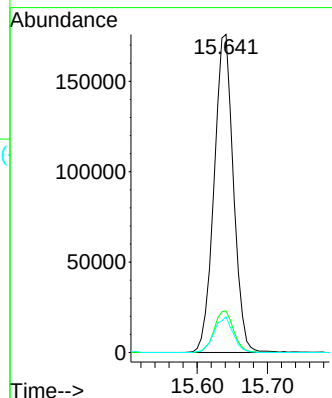
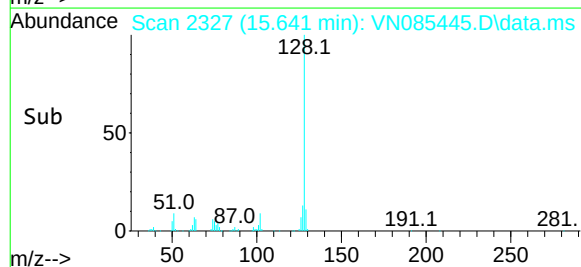
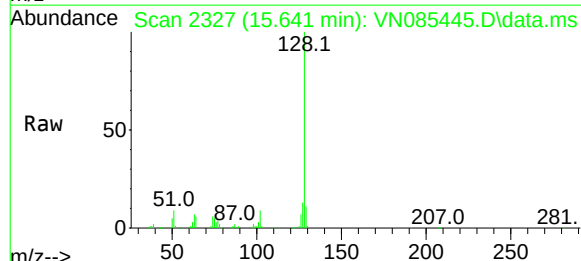
ClientSampleId :

ICVVN011425

Tgt Ion:	128	Resp:	335535
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	16.0
129	11.1	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#96

1,2,3-Trichlorobenzene

Concen: 44.551 ug/l

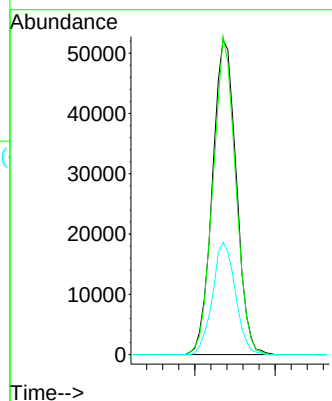
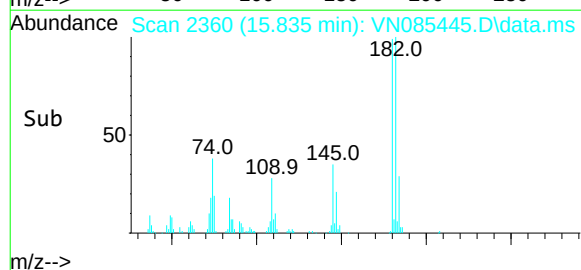
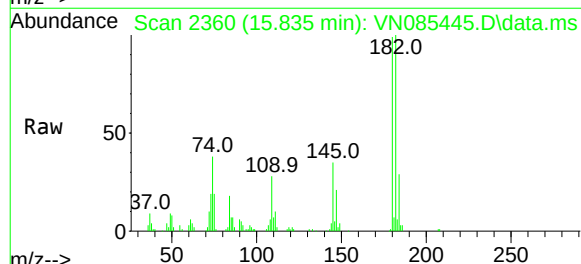
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Tgt Ion:	180	Resp:	107583
Ion Ratio	Lower	Upper	
180	100		
182	95.6	47.4	142.2
145	34.3	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	110	0.00
2 T	Dichlorodifluoromethane	0.677	0.593	12.4	104	0.00
3 P	Chloromethane	0.733	0.629	14.2	102	0.00
4 C	Vinyl Chloride	0.737	0.629	14.7#	101	0.00
5 T	Bromomethane	0.445	0.364	18.2	96	0.00
6 T	Chloroethane	0.467	0.395	15.4	103	0.00
7 T	Trichlorofluoromethane	1.069	0.940	12.1	104	0.00
8 T	Diethyl Ether	0.369	0.316	14.4	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.602	0.538	10.6	109	0.00
10 T	Methyl Iodide	0.690	0.638	7.5	98	0.00
11 T	Tert butyl alcohol	0.092	0.076	17.4	90	0.00
12 CM	1,1-Dichloroethene	0.537	0.486	9.5#	101	0.00
13 T	Acrolein	0.126	0.124	1.6	97	0.00
14 T	Allyl chloride	0.871	0.775	11.0	101	0.00
15 T	Acrylonitrile	0.294	0.268	8.8	99	0.00
16 T	Acetone	0.261	0.223	14.6	98	0.00
17 T	Carbon Disulfide	1.652	1.366	17.3	102	0.00
18 T	Methyl Acetate	0.793	0.714	10.0	100	0.00
19 T	Methyl tert-butyl Ether	1.742	1.665	4.4	98	0.00
20 T	Methylene Chloride	0.646	0.555	14.1	97	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.512	10.6	102	0.00
22 T	Diisopropyl ether	1.933	1.817	6.0	98	0.00
23 T	Vinyl Acetate	1.353	1.339	1.0	99	0.00
24 P	1,1-Dichloroethane	1.178	1.040	11.7	98	0.00
25 T	2-Butanone	0.384	0.351	8.6	99	0.00
26 T	2,2-Dichloropropane	0.953	0.907	4.8	107	0.00
27 T	cis-1,2-Dichloroethene	0.675	0.614	9.0	99	0.00
28 T	Bromochloromethane	0.548	0.484	11.7	98	0.00
29 T	Tetrahydrofuran	0.243	0.233	4.1	98	0.00
30 C	Chloroform	1.218	1.074	11.8#	101	0.00
31 T	Cyclohexane	1.024	0.878	14.3	110	0.00
32 T	1,1,1-Trichloroethane	1.068	0.947	11.3	103	0.00
33 S	1,2-Dichloroethane-d4	0.807	0.804	0.4	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35 S	Dibromofluoromethane	0.347	0.352	-1.4	107	0.00
36 T	1,1-Dichloropropene	0.487	0.437	10.3	103	0.00
37 T	Ethyl Acetate	0.491	0.434	11.6	97	0.00
38 T	Carbon Tetrachloride	0.557	0.496	11.0	102	0.00
39 T	Methylcyclohexane	0.457	0.455	0.4	107	0.00
40 TM	Benzene	1.463	1.336	8.7	100	0.00
41 T	Methacrylonitrile	0.256	0.241	5.9	97	0.00
42 TM	1,2-Dichloroethane	0.551	0.501	9.1	100	0.00
43 T	Isopropyl Acetate	0.787	0.716	9.0	96	0.00
44 TM	Trichloroethene	0.341	0.297	12.9	100	0.00
45 C	1,2-Dichloropropane	0.374	0.334	10.7#	98	0.00
46 T	Dibromomethane	0.270	0.238	11.9	97	0.00
47 T	Bromodichloromethane	0.549	0.502	8.6	98	0.00
48 T	Methyl methacrylate	0.354	0.354	0.0	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.005	16.7	81	0.00
50 S	Toluene-d8	1.232	1.289	-4.6	111	0.00
51 T	4-Methyl-2-Pentanone	0.457	0.449	1.8	99	0.00
52 CM	Toluene	0.848	0.815	3.9#	102	0.00
53 T	t-1,3-Dichloropropene	0.519	0.496	4.4	98	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.530	4.3	98	0.00
55 T	1,1,2-Trichloroethane	0.335	0.310	7.5	99	0.00
56 T	Ethyl methacrylate	0.469	0.492	-4.9	99	0.00
57 T	1,3-Dichloropropane	0.583	0.547	6.2	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.218	-2.3	99	0.00
59 T	2-Hexanone	0.321	0.323	-0.6	99	0.00
60 T	Dibromochloromethane	0.405	0.372	8.1	98	0.00
61 T	1,2-Dibromoethane	0.334	0.299	10.5	98	0.00
62 S	4-Bromofluorobenzene	0.422	0.446	-5.7	108	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00
64 T	Tetrachloroethene	0.341	0.306	10.3	102	0.00
65 PM	Chlorobenzene	1.095	1.006	8.1	101	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.359	10.7	99	0.00
67 C	Ethyl Benzene	1.784	1.798	-0.8#	104	0.00
68 T	m/p-Xylenes	0.659	0.681	-3.3	104	0.00
69 T	o-Xylene	0.630	0.656	-4.1	104	0.00
70 T	Styrene	1.043	1.108	-6.2	102	0.00
71 P	Bromoform	0.288	0.283	1.7	98	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
73 T	Isopropylbenzene	3.375	3.371	0.1	106	0.00
74 T	N-amyl acetate	1.517	1.478	2.6	99	0.00
75 P	1,1,2,2-Tetrachloroethane	1.192	1.040	12.8	98	0.00
76 T	1,2,3-Trichloropropane	1.016	0.851	16.2	103	0.00
77 T	Bromobenzene	0.882	0.814	7.7	103	0.00
78 T	n-propylbenzene	3.995	4.075	-2.0	106	0.00
79 T	2-Chlorotoluene	2.586	2.475	4.3	104	0.00
80 T	1,3,5-Trimethylbenzene	2.787	2.877	-3.2	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.376	0.370	1.6	103	0.00
82 T	4-Chlorotoluene	2.574	2.511	2.4	105	0.00
83 T	tert-Butylbenzene	2.341	2.387	-2.0	106	0.00
84 T	1,2,4-Trimethylbenzene	2.778	2.885	-3.9	103	0.00
85 T	sec-Butylbenzene	3.244	3.360	-3.6	106	0.00
86 T	p-Isopropyltoluene	2.631	2.777	-5.5	105	0.00
87 T	1,3-Dichlorobenzene	1.624	1.491	8.2	103	0.00
88 T	1,4-Dichlorobenzene	1.683	1.484	11.8	103	0.00
89 T	n-Butylbenzene	2.327	2.354	-1.2	103	0.00
90 T	Hexachloroethane	0.618	0.559	9.5	105	0.00
91 T	1,2-Dichlorobenzene	1.620	1.461	9.8	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.218	0.201	7.8	98	0.00
93 T	1,2,4-Trichlorobenzene	0.753	0.689	8.5	95	0.00
94 T	Hexachlorobutadiene	0.400	0.337	15.8	99	0.00
95 T	Naphthalene	2.246	2.117	5.7	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.762	0.679	10.9	93	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	110	0.00
2 T	Dichlorodifluoromethane	50.000	43.772	12.5	104	0.00
3 P	Chloromethane	50.000	42.883	14.2	102	0.00
4 C	Vinyl Chloride	50.000	42.715	14.6#	101	0.00
5 T	Bromomethane	50.000	40.910	18.2	96	0.00
6 T	Chloroethane	50.000	42.299	15.4	103	0.00
7 T	Trichlorofluoromethane	50.000	43.956	12.1	104	0.00
8 T	Diethyl Ether	50.000	42.846	14.3	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	44.706	10.6	109	0.00
10 T	Methyl Iodide	50.000	46.259	7.5	98	0.00
11 T	Tert butyl alcohol	250.000	206.633	17.3	90	0.00
12 CM	1,1-Dichloroethene	50.000	45.317	9.4#	101	0.00
13 T	Acrolein	250.000	244.765	2.1	97	0.00
14 T	Allyl chloride	50.000	44.501	11.0	101	0.00
15 T	Acrylonitrile	250.000	227.920	8.8	99	0.00
16 T	Acetone	250.000	213.971	14.4	98	0.00
17 T	Carbon Disulfide	50.000	41.342	17.3	102	0.00
18 T	Methyl Acetate	50.000	45.028	9.9	100	0.00
19 T	Methyl tert-butyl Ether	50.000	47.768	4.5	98	0.00
20 T	Methylene Chloride	50.000	43.017	14.0	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	44.672	10.7	102	0.00
22 T	Diisopropyl ether	50.000	46.996	6.0	98	0.00
23 T	Vinyl Acetate	250.000	247.459	1.0	99	0.00
24 P	1,1-Dichloroethane	50.000	44.114	11.8	98	0.00
25 T	2-Butanone	250.000	228.924	8.4	99	0.00
26 T	2,2-Dichloropropane	50.000	47.593	4.8	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	45.446	9.1	99	0.00
28 T	Bromochloromethane	50.000	44.122	11.8	98	0.00
29 T	Tetrahydrofuran	250.000	239.065	4.4	98	0.00
30 C	Chloroform	50.000	44.071	11.9#	101	0.00
31 T	Cyclohexane	50.000	42.878	14.2	110	0.00
32 T	1,1,1-Trichloroethane	50.000	44.332	11.3	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.782	0.4	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35 S	Dibromofluoromethane	50.000	50.768	-1.5	107	0.00
36 T	1,1-Dichloropropene	50.000	44.863	10.3	103	0.00
37 T	Ethyl Acetate	50.000	44.123	11.8	97	0.00
38 T	Carbon Tetrachloride	50.000	44.456	11.1	102	0.00
39 T	Methylcyclohexane	50.000	49.687	0.6	107	0.00
40 TM	Benzene	50.000	45.657	8.7	100	0.00
41 T	Methacrylonitrile	50.000	47.155	5.7	97	0.00
42 TM	1,2-Dichloroethane	50.000	45.481	9.0	100	0.00
43 T	Isopropyl Acetate	50.000	45.440	9.1	96	0.00
44 TM	Trichloroethene	50.000	43.622	12.8	100	0.00
45 C	1,2-Dichloropropane	50.000	44.744	10.5#	98	0.00
46 T	Dibromomethane	50.000	44.214	11.6	97	0.00
47 T	Bromodichloromethane	50.000	45.655	8.7	98	0.00
48 T	Methyl methacrylate	50.000	49.948	0.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	792.760	20.7	81	0.00
50 S	Toluene-d8	50.000	52.302	-4.6	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	245.877	1.6	99	0.00
52 CM	Toluene	50.000	48.073	3.9#	102	0.00
53 T	t-1,3-Dichloropropene	50.000	47.757	4.5	98	0.00
54 T	cis-1,3-Dichloropropene	50.000	47.783	4.4	98	0.00
55 T	1,1,2-Trichloroethane	50.000	46.173	7.7	99	0.00
56 T	Ethyl methacrylate	50.000	43.762	12.5	99	0.00
57 T	1,3-Dichloropropane	50.000	46.877	6.2	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	256.116	-2.4	99	0.00
59 T	2-Hexanone	250.000	251.213	-0.5	99	0.00
60 T	Dibromochloromethane	50.000	45.935	8.1	98	0.00
61 T	1,2-Dibromoethane	50.000	44.837	10.3	98	0.00
62 S	4-Bromofluorobenzene	50.000	52.899	-5.8	108	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	108	0.00
64 T	Tetrachloroethene	50.000	44.886	10.2	102	0.00
65 PM	Chlorobenzene	50.000	45.901	8.2	101	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	44.712	10.6	99	0.00
67 C	Ethyl Benzene	50.000	50.391	-0.8#	104	0.00
68 T	m/p-Xylenes	100.000	103.341	-3.3	104	0.00
69 T	o-Xylene	50.000	52.093	-4.2	104	0.00
70 T	Styrene	50.000	53.103	-6.2	102	0.00
71 P	Bromoform	50.000	49.119	1.8	98	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	108	0.00
73 T	Isopropylbenzene	50.000	49.951	0.1	106	0.00
74 T	N-amyl acetate	50.000	48.730	2.5	99	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.627	12.7	98	0.00
76 T	1,2,3-Trichloropropane	50.000	41.891	16.2	103	0.00
77 T	Bromobenzene	50.000	46.138	7.7	103	0.00
78 T	n-propylbenzene	50.000	51.001	-2.0	106	0.00
79 T	2-Chlorotoluene	50.000	47.870	4.3	104	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.604	-3.2	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.226	1.5	103	0.00
82 T	4-Chlorotoluene	50.000	48.776	2.4	105	0.00
83 T	tert-Butylbenzene	50.000	50.997	-2.0	106	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.922	-3.8	103	0.00
85 T	sec-Butylbenzene	50.000	51.777	-3.6	106	0.00
86 T	p-Isopropyltoluene	50.000	47.795	4.4	105	0.00
87 T	1,3-Dichlorobenzene	50.000	45.920	8.2	103	0.00
88 T	1,4-Dichlorobenzene	50.000	44.102	11.8	103	0.00
89 T	n-Butylbenzene	50.000	50.578	-1.2	103	0.00
90 T	Hexachloroethane	50.000	45.215	9.6	105	0.00
91 T	1,2-Dichlorobenzene	50.000	45.113	9.8	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.221	7.6	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.739	8.5	95	0.00
94 T	Hexachlorobutadiene	50.000	42.112	15.8	99	0.00
95 T	Naphthalene	50.000	47.116	5.8	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.551	10.9	93	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG No.: Q1249

Instrument ID: MSVOA_N Calibration Date/Time: 02/04/2025 11:05

Lab File ID: VN085645.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.756	0.1	3.14	20
Vinyl Chloride	0.737	0.924		25.37	20
Bromomethane	0.445	0.578		29.89	20
Chloroethane	0.467	0.583		24.84	20
Trichlorofluoromethane	1.069	1.135		6.17	20
1,1,2-Trichlorotrifluoroethane	0.602	0.678		12.63	20
1,1-Dichloroethene	0.537	0.620		15.46	20
Acetone	0.261	0.236		-9.58	20
Carbon Disulfide	1.652	1.884		14.04	20
Methyl tert-butyl Ether	1.742	1.918		10.1	20
Methylene Chloride	0.646	0.706		9.29	20
trans-1,2-Dichloroethene	0.573	0.660		15.18	20
1,1-Dichloroethane	1.178	1.225	0.1	3.99	20
2-Butanone	0.384	0.371		-3.38	20
Carbon Tetrachloride	0.557	0.585		5.03	20
cis-1,2-Dichloroethene	0.675	0.773		14.52	20
Chloroform	1.218	1.257		3.2	20
1,1,1-Trichloroethane	1.068	1.122		5.06	20
Methylcyclohexane	0.457	0.567		24.07	20
Benzene	1.463	1.643		12.3	20
1,2-Dichloroethane	0.551	0.538		-2.36	20
Trichloroethene	0.341	0.382		12.02	20
1,2-Dichloropropane	0.374	0.397		6.15	20
Bromodichloromethane	0.549	0.587		6.92	20
4-Methyl-2-Pentanone	0.457	0.464		1.53	20
Toluene	0.848	1.020		20.28	20
t-1,3-Dichloropropene	0.519	0.592		14.07	20
cis-1,3-Dichloropropene	0.554	0.641		15.7	20
1,1,2-Trichloroethane	0.335	0.375		11.94	20
2-Hexanone	0.321	0.336		4.67	20
Dibromochloromethane	0.405	0.441		8.89	20
Tetrachloroethene	0.341	0.397		16.42	20
Chlorobenzene	1.095	1.230	0.3	12.33	20
Ethyl Benzene	1.784	2.118		18.72	20
m/p-Xylenes	0.659	0.839		27.31	20
o-Xylene	0.630	0.781		23.97	20
Styrene	1.043	1.356		30.01	20
Bromoform	0.288	0.323	0.1	12.15	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG No.: Q1249

Instrument ID: MSVOA_N Calibration Date/Time: 02/04/2025 11:05

Lab File ID: VN085645.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.860		14.37	20
1,1,2,2-Tetrachloroethane	1.192	1.200	0.3	0.67	20
1,3-Dichlorobenzene	1.624	1.768		8.87	20
1,4-Dichlorobenzene	1.683	1.776		5.53	20
1,2-Dichlorobenzene	1.620	1.695		4.63	20
1,2-Dichloroethane-d4	0.807	0.771		-4.46	20
Dibromofluoromethane	0.347	0.369		6.34	20
Toluene-d8	1.232	1.373		11.44	20
4-Bromofluorobenzene	0.422	0.472		11.85	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085645.D
 Acq On : 04 Feb 2025 11:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:01:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	200704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	345148	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	309053	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157058	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	154798	47.780	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.560%
35) Dibromofluoromethane	8.165	113	127274	53.153	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.300%
50) Toluene-d8	10.565	98	473979	55.713	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	111.420%
62) 4-Bromofluorobenzene	12.847	95	163009	56.013	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	112.020%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	168819	62.124	ug/l	98
3) Chloromethane	2.359	50	151639	51.538	ug/l	99
4) Vinyl Chloride	2.512	62	185363	62.678	ug/l	98
5) Bromomethane	2.942	94	115992	64.931	ug/l	95
6) Chloroethane	3.118	64	116980	62.391	ug/l	98
7) Trichlorofluoromethane	3.495	101	227801	53.087	ug/l	99
8) Diethyl Ether	3.959	74	75659	51.037	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.371	101	136051	56.291	ug/l	97
10) Methyl Iodide	4.589	142	171090	61.814	ug/l	96
11) Tert butyl alcohol	5.518	59	90596	244.210	ug/l	100
12) 1,1-Dichloroethene	4.336	96	124529	57.812	ug/l	91
13) Acrolein	4.177	56	85431	168.697	ug/l	99
14) Allyl chloride	5.024	41	157091	44.944	ug/l #	94
15) Acrylonitrile	5.718	53	303850	257.863	ug/l	99
16) Acetone	4.424	43	236574	225.997	ug/l	94
17) Carbon Disulfide	4.712	76	378039	57.001	ug/l	98
18) Methyl Acetate	5.018	43	143957	45.225	ug/l	92
19) Methyl tert-butyl Ether	5.795	73	384956	55.039	ug/l	98
20) Methylene Chloride	5.277	84	141744	54.697	ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	132371	57.502	ug/l	94
22) Diisopropyl ether	6.671	45	381754	49.208	ug/l	97
23) Vinyl Acetate	6.600	43	1409531	259.616	ug/l	95
24) 1,1-Dichloroethane	6.565	63	245805	51.962	ug/l	98
25) 2-Butanone	7.477	43	372307	241.685	ug/l	91
26) 2,2-Dichloropropane	7.489	77	220150	57.562	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	155112	57.208	ug/l	93
28) Bromochloromethane	7.806	49	95572	43.426	ug/l	87
29) Tetrahydrofuran	7.836	42	249949	255.923	ug/l	89
30) Chloroform	7.965	83	252335	51.611	ug/l	100
31) Cyclohexane	8.253	56	204306	49.690	ug/l	91
32) 1,1,1-Trichloroethane	8.165	97	225191	52.509	ug/l	96
36) 1,1-Dichloropropene	8.371	75	183927	54.731	ug/l	98
37) Ethyl Acetate	7.559	43	159199	46.933	ug/l	98
38) Carbon Tetrachloride	8.359	117	202078	52.524	ug/l	99
39) Methylcyclohexane	9.600	83	195859	62.021	ug/l	93
40) Benzene	8.606	78	567137	56.166	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085645.D
 Acq On : 04 Feb 2025 11:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:01:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	81539	46.204	ug/l	91
42) 1,2-Dichloroethane	8.671	62	185776	48.850	ug/l	97
43) Isopropyl Acetate	8.688	43	271553	49.962	ug/l	95
44) Trichloroethene	9.347	130	131785	56.068	ug/l	100
45) 1,2-Dichloropropane	9.618	63	137051	53.137	ug/l	99
46) Dibromomethane	9.706	93	97554	52.419	ug/l	96
47) Bromodichloromethane	9.882	83	202509	53.411	ug/l	98
48) Methyl methacrylate	9.677	41	122409	50.045	ug/l	89
49) 1,4-Dioxane	9.694	88	47051	1142.294	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	800853	253.917	ug/l	94
52) Toluene	10.629	92	351922	60.150	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	204407	57.048	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	221256	57.810	ug/l #	90
55) 1,1,2-Trichloroethane	11.012	97	129296	55.842	ug/l	99
56) Ethyl methacrylate	10.871	69	199066	50.997	ug/l	90
57) 1,3-Dichloropropane	11.159	76	225579	56.030	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	335470	228.313	ug/l	97
59) 2-Hexanone	11.194	43	580109	261.399	ug/l	91
60) Dibromochloromethane	11.359	129	152370	54.508	ug/l	98
61) 1,2-Dibromoethane	11.465	107	129588	56.226	ug/l	99
64) Tetrachloroethene	11.100	164	122776	58.273	ug/l	96
65) Chlorobenzene	11.888	112	380252	56.165	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	133801	53.847	ug/l	100
67) Ethyl Benzene	11.959	91	654450	59.349	ug/l	97
68) m/p-Xylenes	12.071	106	518534	127.234	ug/l	95
69) o-Xylene	12.394	106	241242	61.940	ug/l	96
70) Styrene	12.412	104	419116	65.022	ug/l	97
71) Bromoform	12.576	173	99802	56.133	ug/l #	98
73) Isopropylbenzene	12.694	105	606175	57.186	ug/l	99
74) N-amyl acetate	12.494	43	234045	49.123	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	188424	50.322	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	153753m	48.165	ug/l	
77) Bromobenzene	12.976	156	148155	53.497	ug/l	95
78) n-propylbenzene	13.035	91	731968	58.330	ug/l	99
79) 2-Chlorotoluene	13.123	91	439835	54.157	ug/l	96
80) 1,3,5-Trimethylbenzene	13.171	105	514612	58.774	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	68031	57.659	ug/l #	81
82) 4-Chlorotoluene	13.218	91	445323	55.070	ug/l	97
83) tert-Butylbenzene	13.435	119	411462	55.960	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	519388	59.518	ug/l	98
85) sec-Butylbenzene	13.612	105	605413	59.408	ug/l	99
86) p-Isopropyltoluene	13.729	119	506039	54.534	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	277733	54.455	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	278955	52.768	ug/l	97
89) n-Butylbenzene	14.053	91	429742	58.781	ug/l	99
90) Hexachloroethane	14.329	117	98723	50.887	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	266234	52.333	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33244	48.620	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	124629	52.709	ug/l	98
94) Hexachlorobutadiene	15.500	225	60840	48.466	ug/l	99
95) Naphthalene	15.641	128	394392	55.897	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	125197	52.330	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

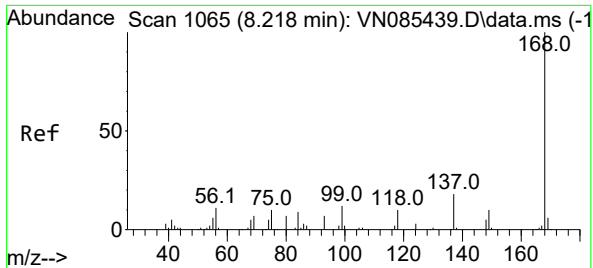
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025





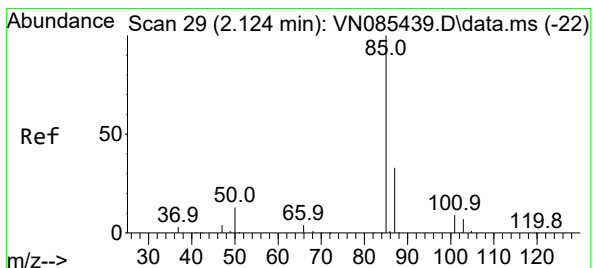
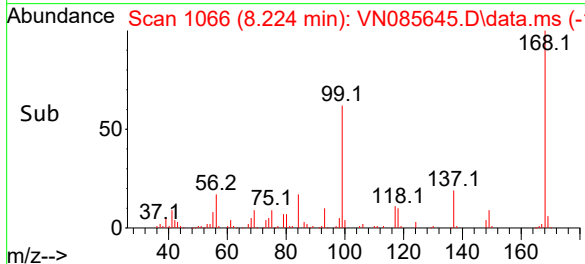
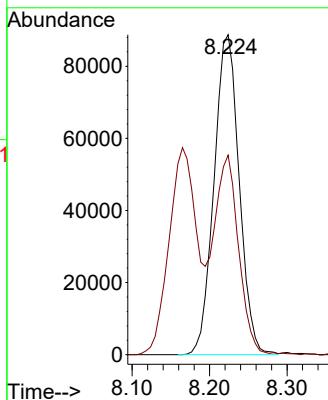
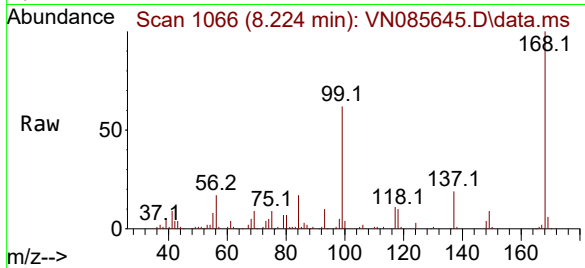
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDC050

Tgt Ion:168 Resp: 200704
Ion Ratio Lower Upper
168 100
99 62.0 53.6 80.4

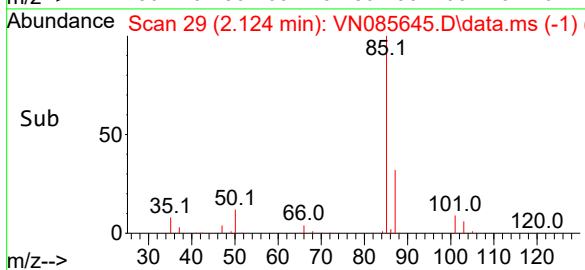
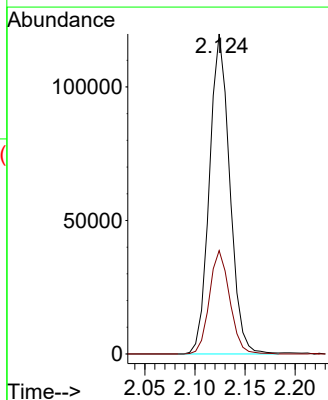
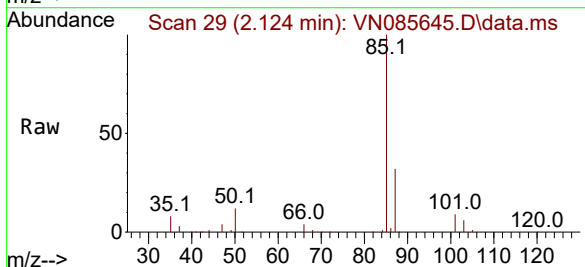
Manual Integrations
APPROVED

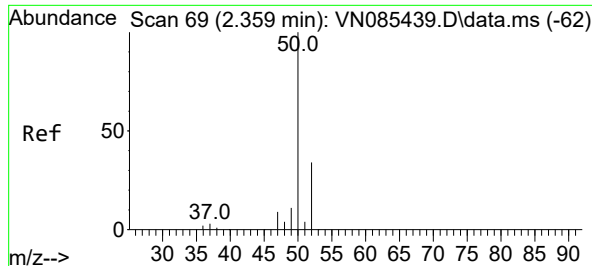
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#2
Dichlorodifluoromethane
Concen: 62.124 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

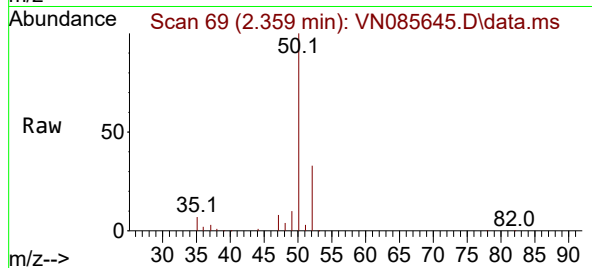
Tgt Ion: 85 Resp: 168819
Ion Ratio Lower Upper
85 100
87 32.3 16.7 50.1





#3
Chloromethane
Concen: 51.538 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

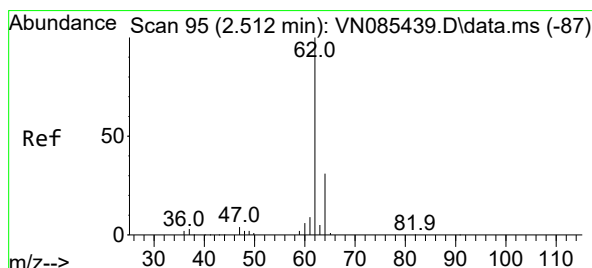
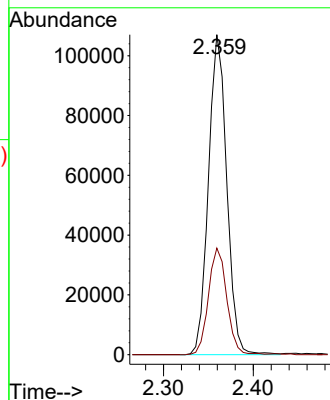
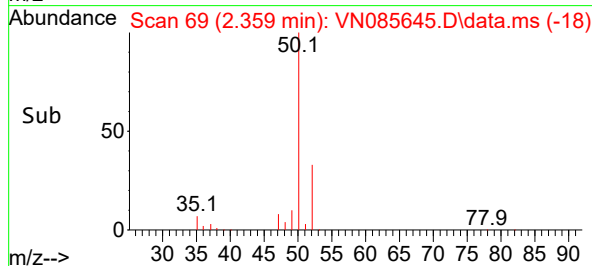
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 50 Resp: 151639
Ion Ratio Lower Upper
50 100
52 33.3 27.0 40.6

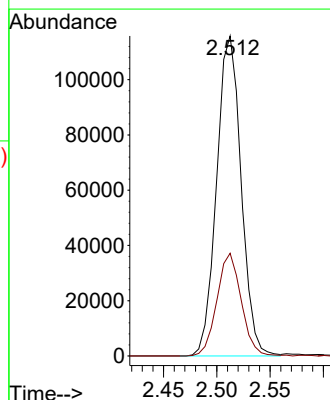
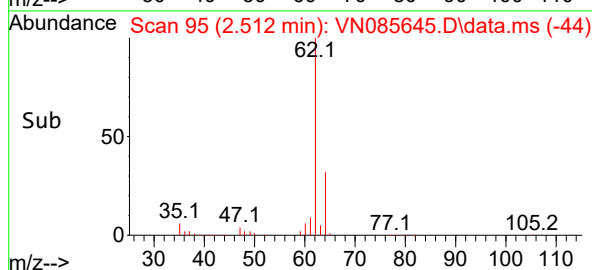
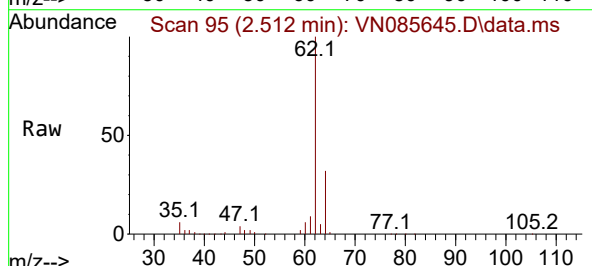
Manual Integrations
APPROVED

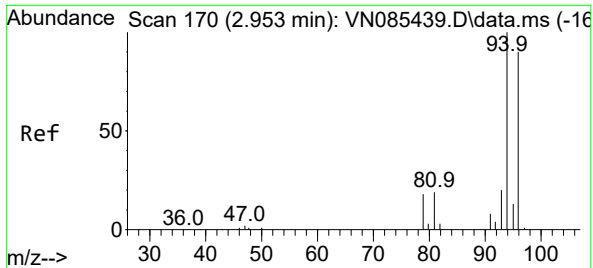
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#4
Vinyl Chloride
Concen: 62.678 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 62 Resp: 185363
Ion Ratio Lower Upper
62 100
64 32.1 24.8 37.2





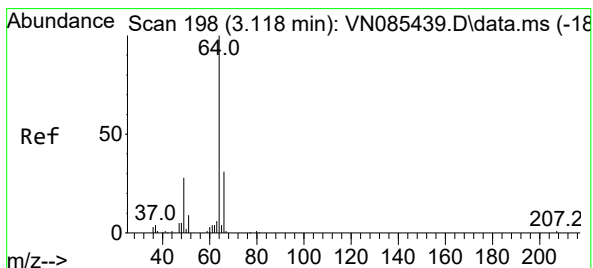
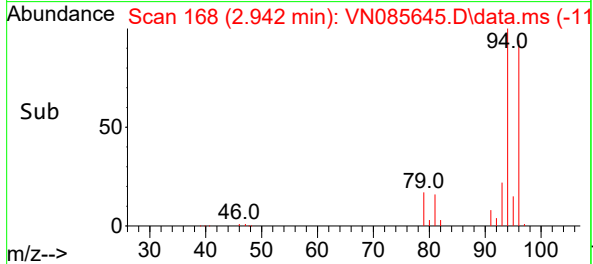
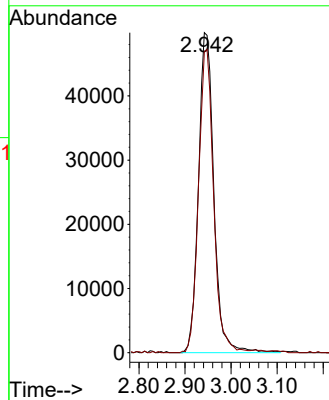
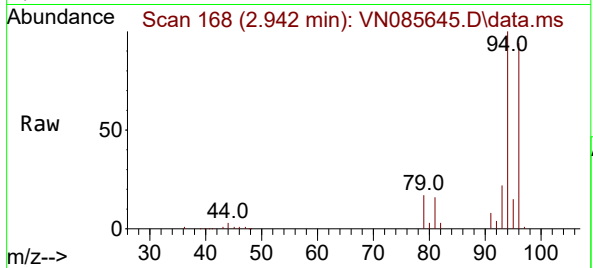
#5
Bromomethane
Concen: 64.931 ug/l
RT: 2.942 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 115992
Ion Ratio Lower Upper
94 100
96 94.0 71.8 107.6

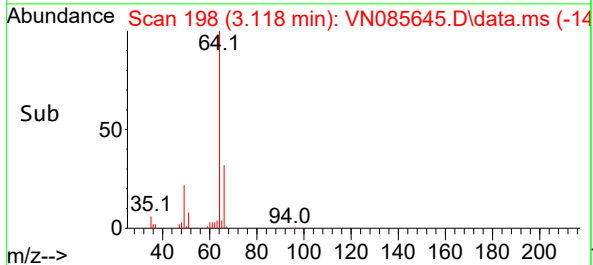
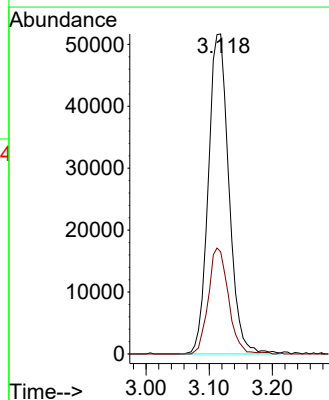
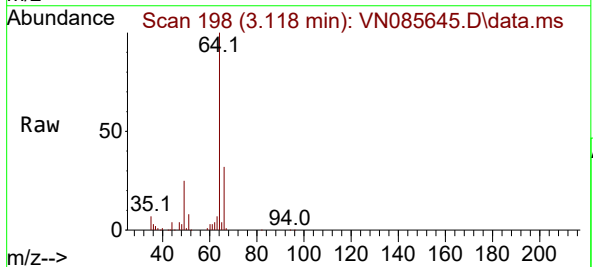
Manual Integrations
APPROVED

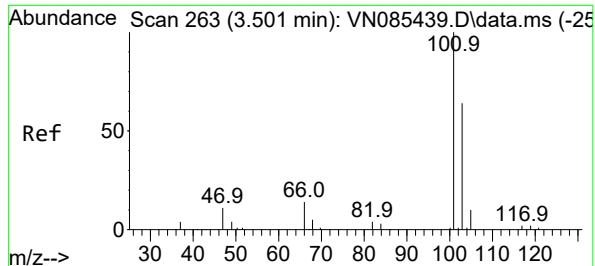
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#6
Chloroethane
Concen: 62.391 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

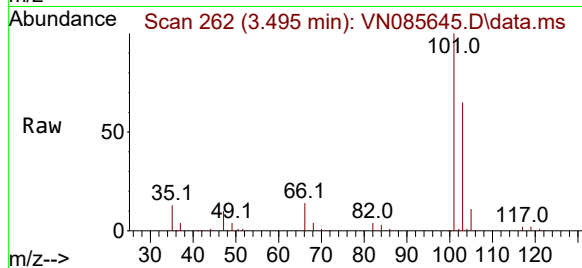
Tgt Ion: 64 Resp: 116980
Ion Ratio Lower Upper
64 100
66 31.9 24.6 36.8





#7
Trichlorofluoromethane
Concen: 53.087 ug/l
RT: 3.495 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

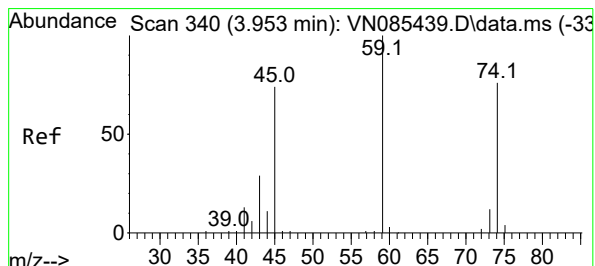
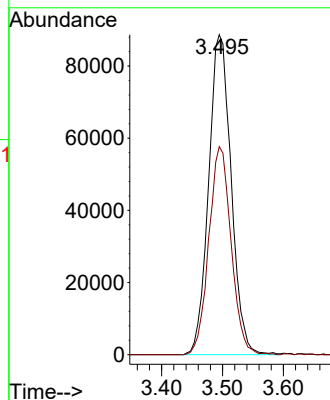
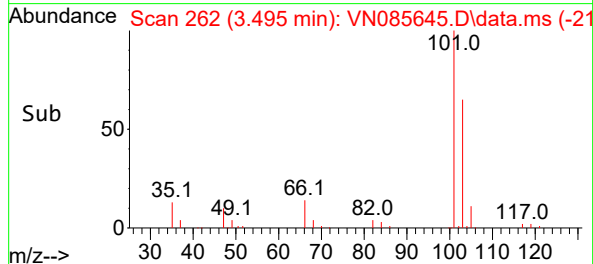
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



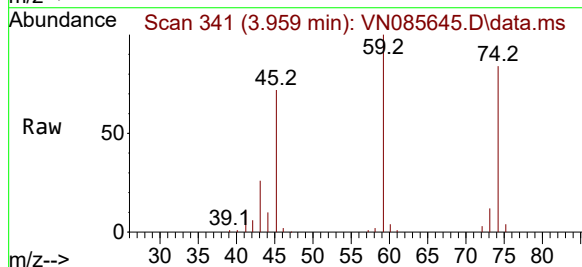
Tgt Ion:101 Resp: 22780
Ion Ratio Lower Upper
101 100
103 65.0 51.4 77.2

Manual Integrations
APPROVED

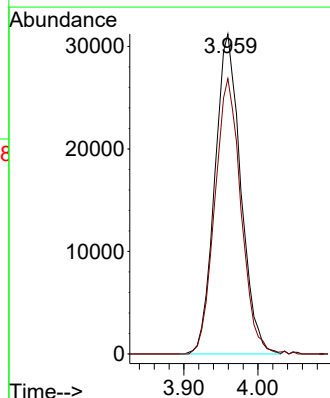
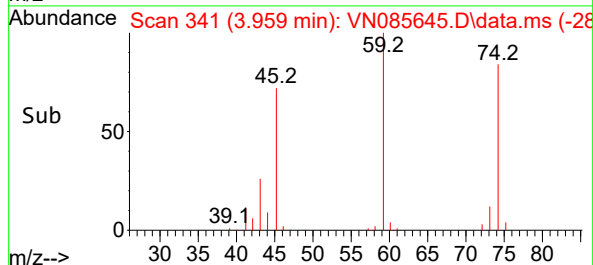
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

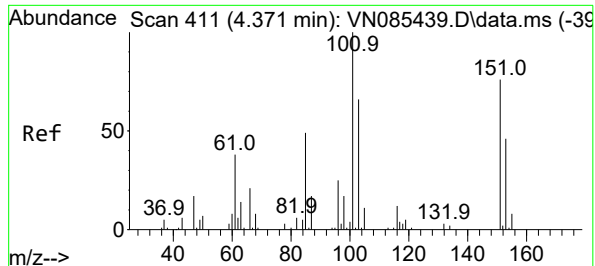


#8
Diethyl Ether
Concen: 51.037 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



Tgt Ion: 74 Resp: 75659
Ion Ratio Lower Upper
74 100
45 87.0 49.7 149.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.291 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 13605

Ion Ratio Lower Upper

101 100

85 44.6 37.8 56.8

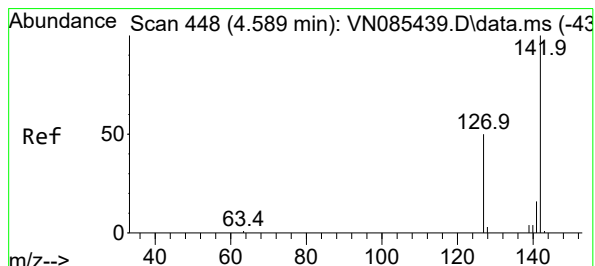
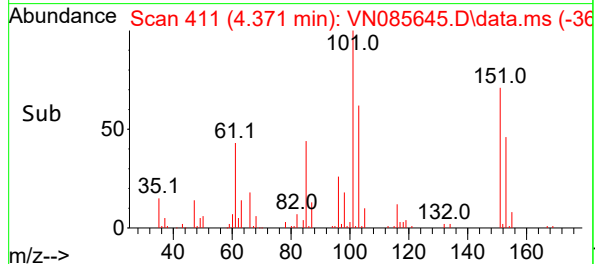
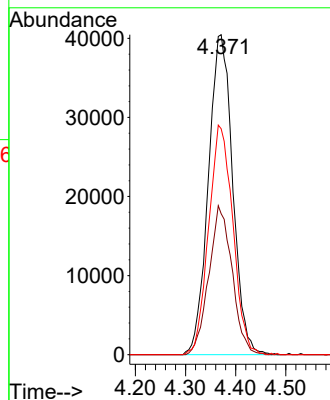
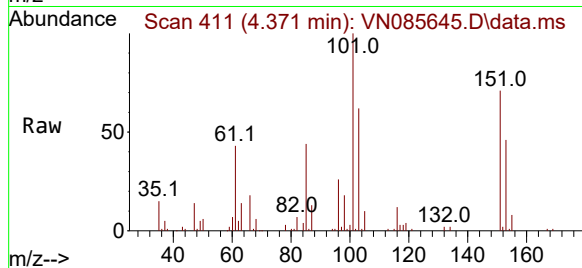
151 71.5 58.8 88.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#10

Methyl Iodide

Concen: 61.814 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

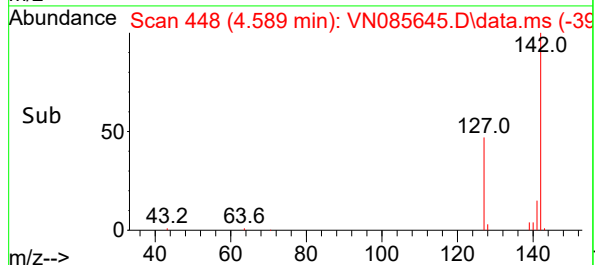
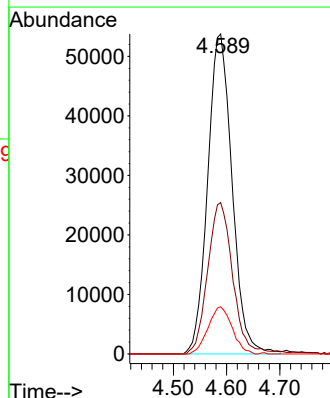
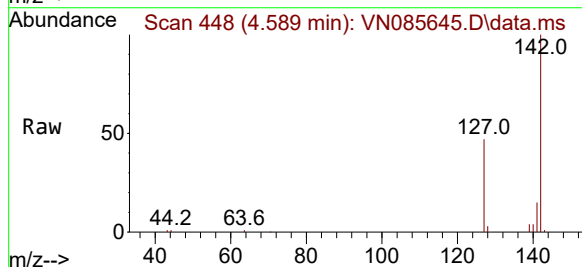
Tgt Ion:142 Resp: 171090

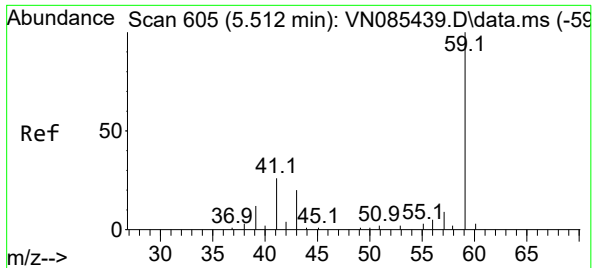
Ion Ratio Lower Upper

142 100

127 47.3 40.3 60.5

141 14.8 12.8 19.2





#11

Tert butyl alcohol

Concen: 244.210 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 90590

Ion Ratio Lower Upper

59 100

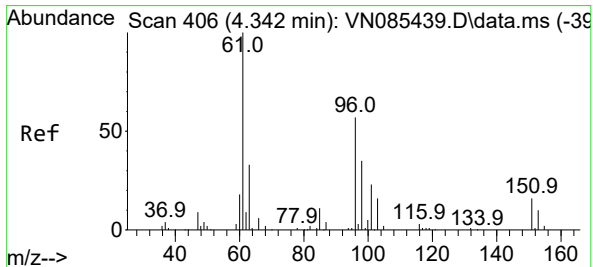
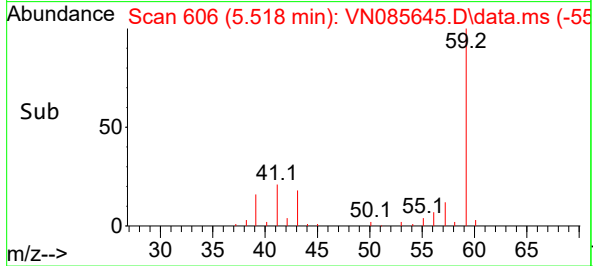
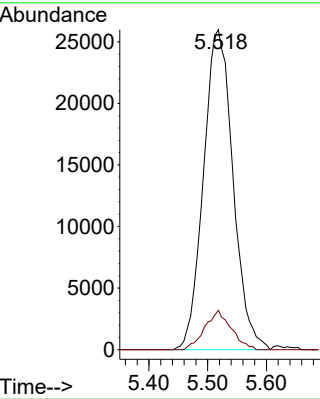
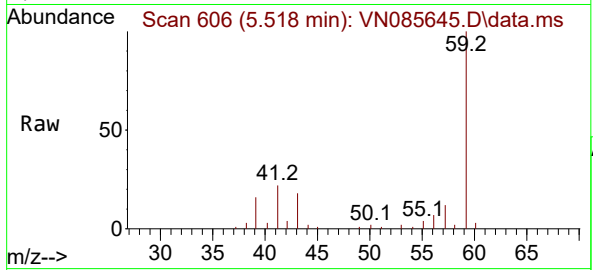
57 10.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#12

1,1-Dichloroethene

Concen: 57.812 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

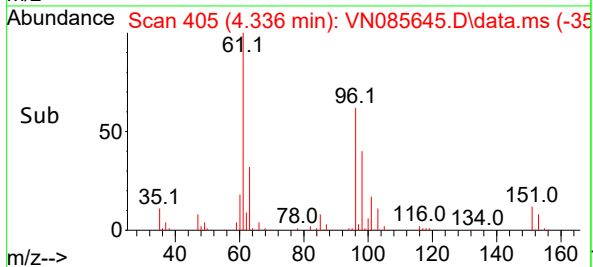
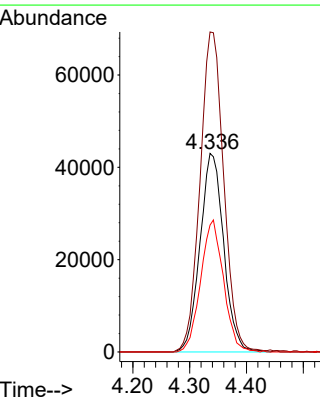
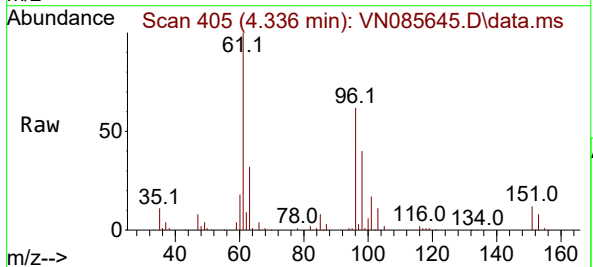
Tgt Ion: 96 Resp: 124529

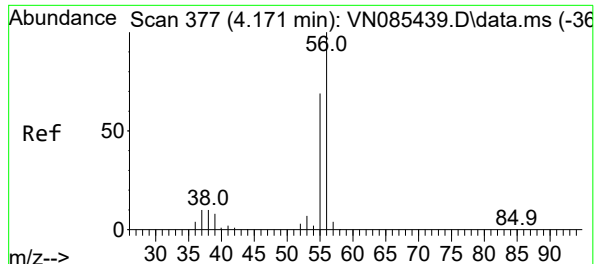
Ion Ratio Lower Upper

96 100

61 161.2 141.0 211.4

98 63.9 49.0 73.6





#13

Acrolein

Concen: 168.697 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 8543

Ion Ratio Lower Upper

56 100

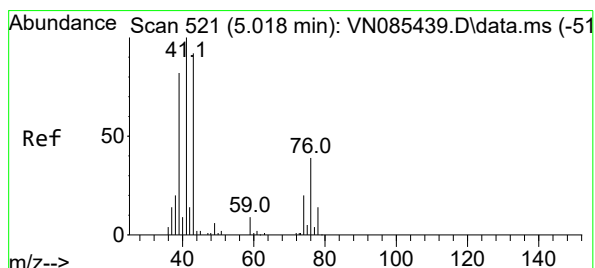
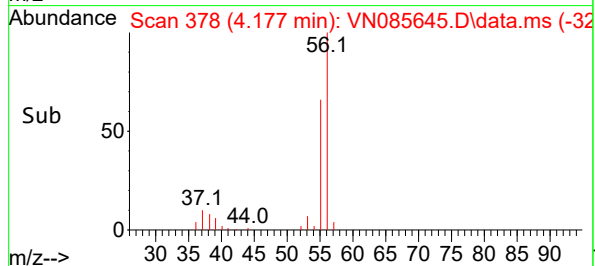
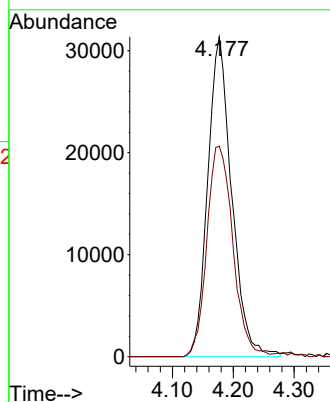
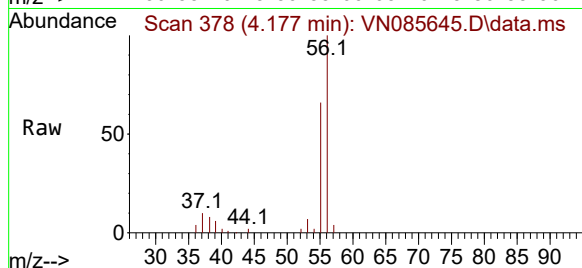
55 71.5 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#14

Allyl chloride

Concen: 44.944 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

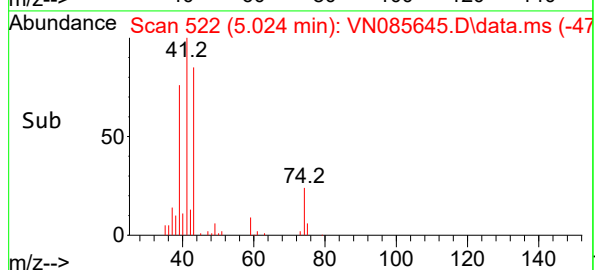
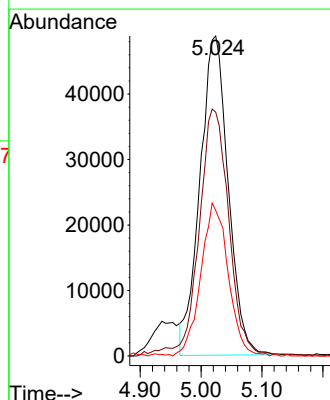
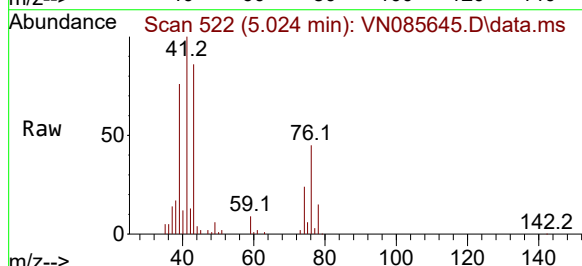
Tgt Ion: 41 Resp: 157091

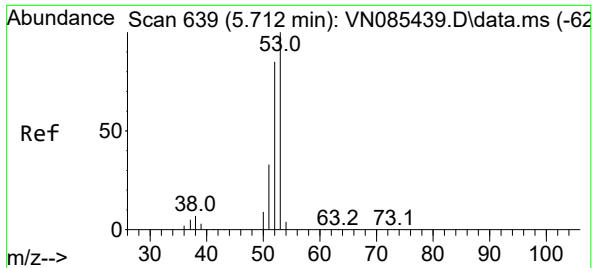
Ion Ratio Lower Upper

41 100

39 82.1 64.4 96.6

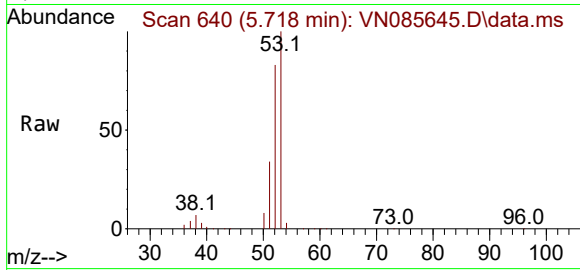
76 46.3 30.5 45.7#





#15
Acrylonitrile
Concen: 257.863 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

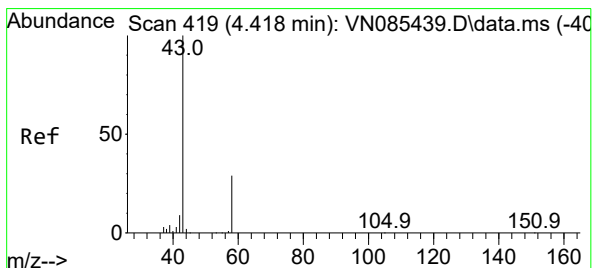
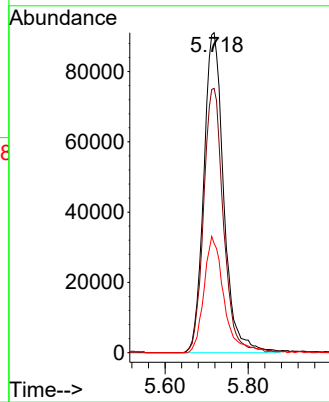
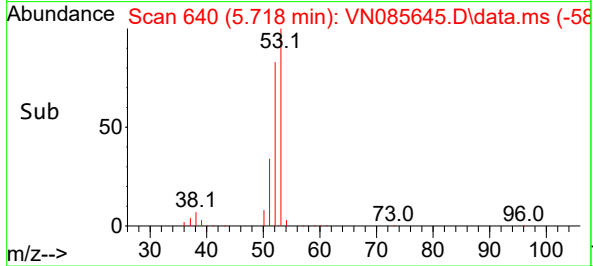
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



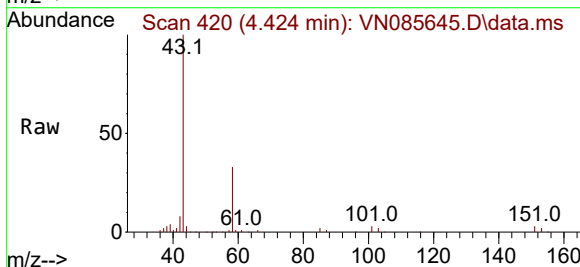
Tgt Ion: 53 Resp: 303850
Ion Ratio Lower Upper
53 100
52 82.0 65.5 98.3
51 36.3 29.8 44.8

Manual Integrations
APPROVED

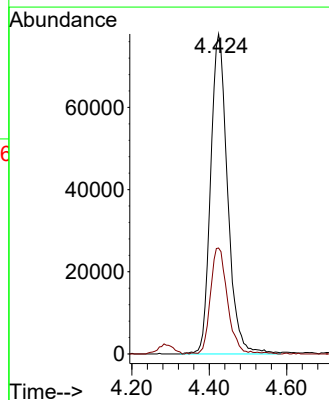
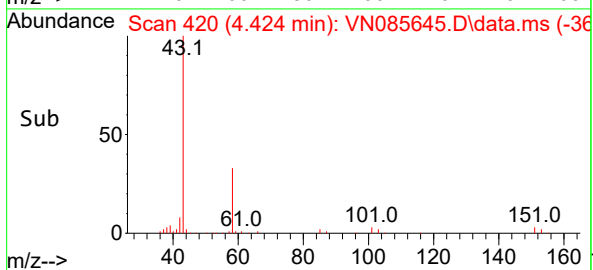
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

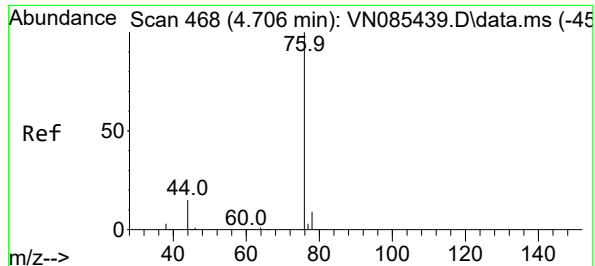


#16
Acetone
Concen: 225.997 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



Tgt Ion: 43 Resp: 236574
Ion Ratio Lower Upper
43 100
58 33.1 23.8 35.6





#17

Carbon Disulfide

Concen: 57.001 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 378039

Ion Ratio Lower Upper

76 100

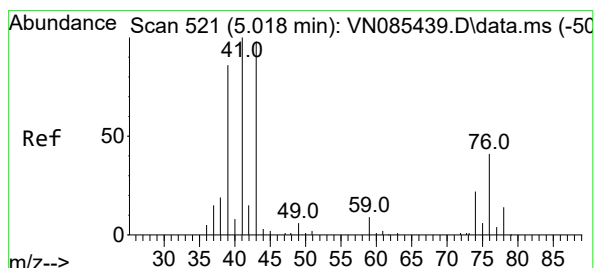
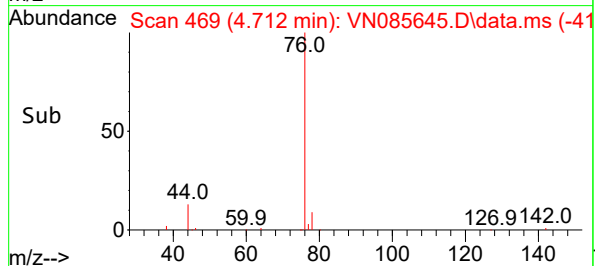
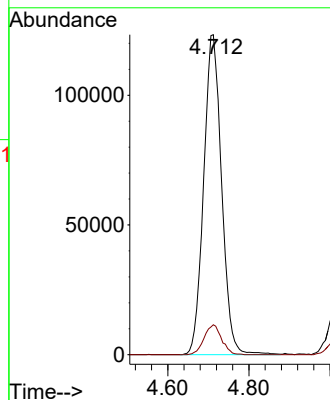
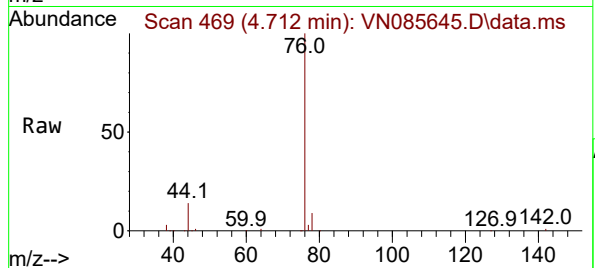
78 9.4 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#18

Methyl Acetate

Concen: 45.225 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085645.D

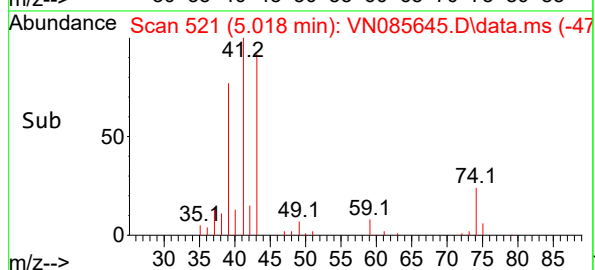
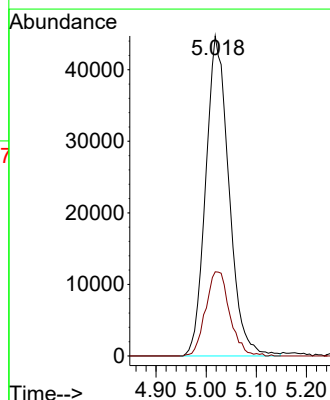
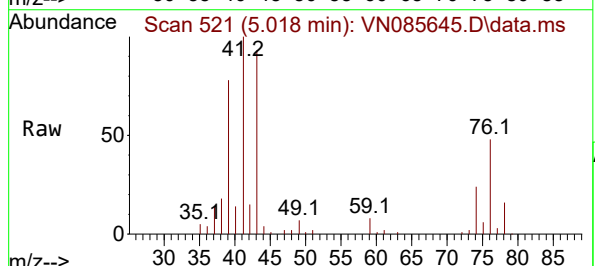
Acq: 04 Feb 2025 11:05

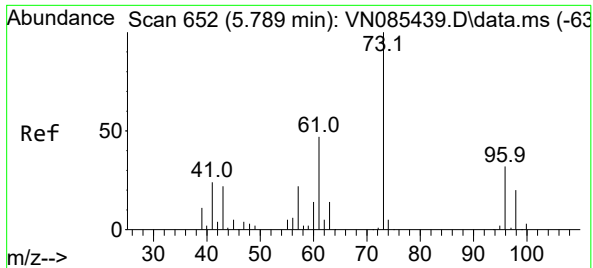
Tgt Ion: 43 Resp: 143957

Ion Ratio Lower Upper

43 100

74 27.3 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 55.039 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 38495

Ion Ratio Lower Upper

73 100

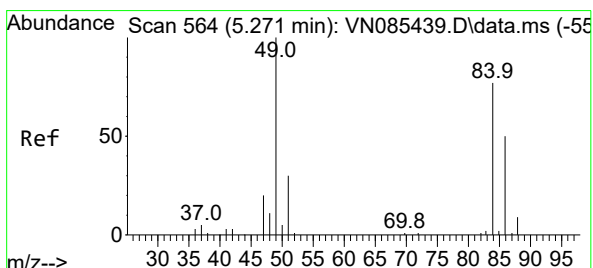
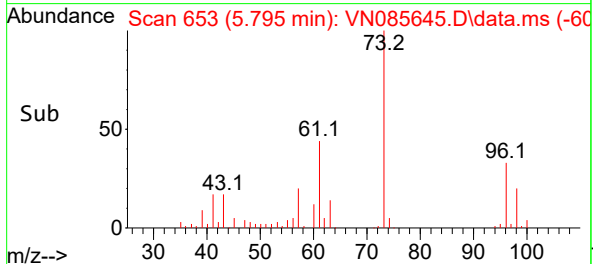
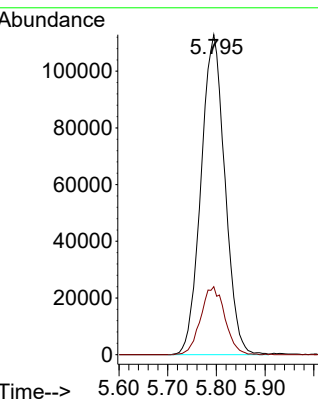
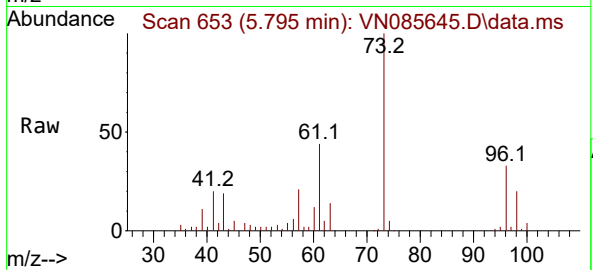
57 21.2 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#20

Methylene Chloride

Concen: 54.697 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Tgt Ion: 84 Resp: 141744

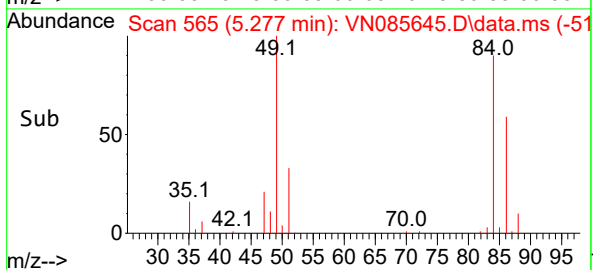
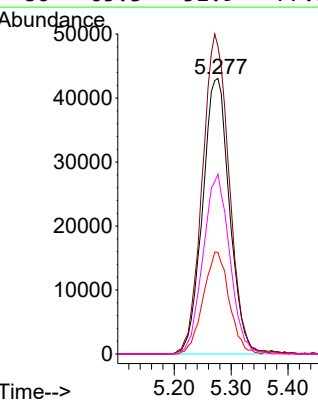
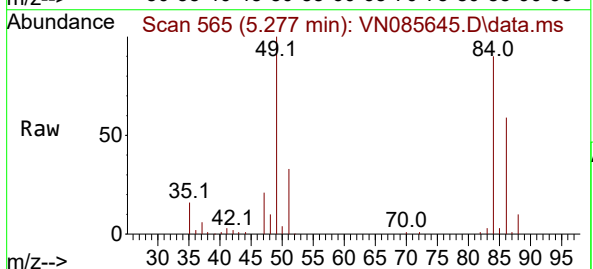
Ion Ratio Lower Upper

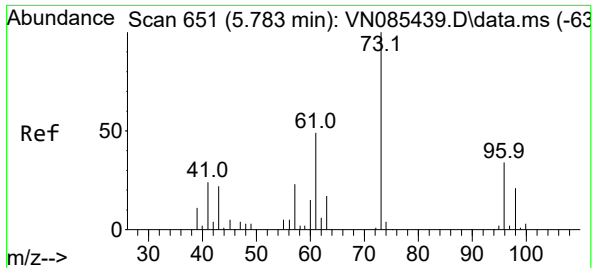
84 100

49 111.6 104.1 156.1

51 36.9 31.0 46.4

86 65.3 51.9 77.9





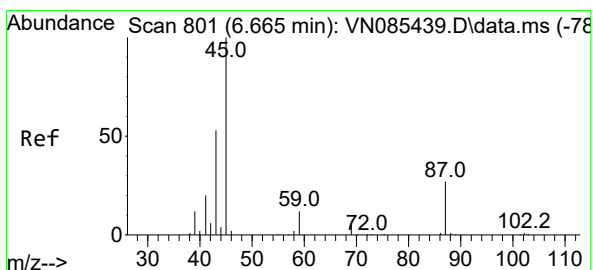
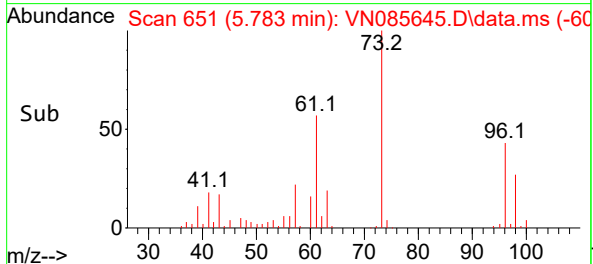
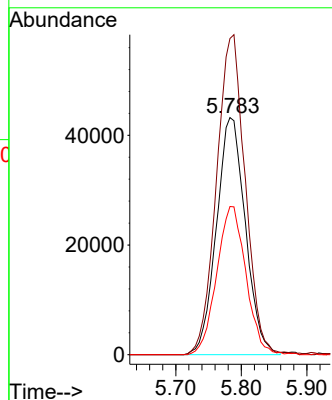
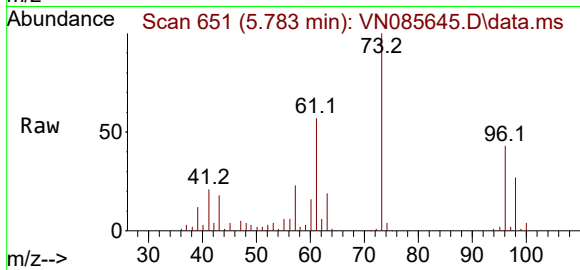
#21
trans-1,2-Dichloroethene
Concen: 57.502 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 13237
Ion Ratio Lower Upper
96 100
61 133.3 115.7 173.5
98 62.5 49.8 74.8

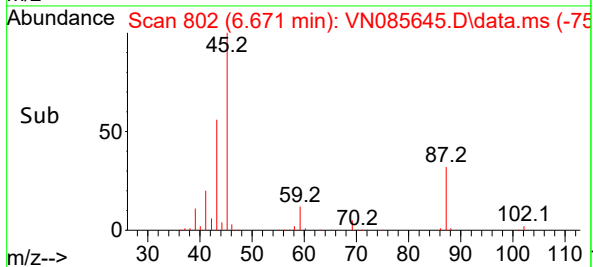
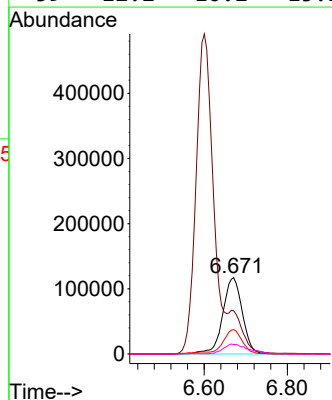
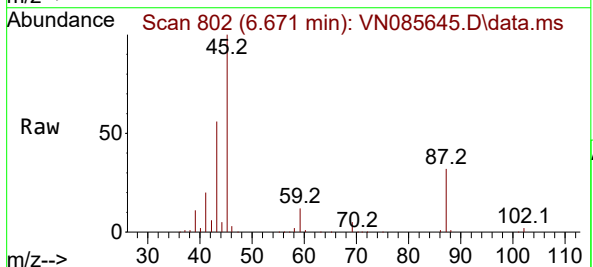
Manual Integrations
APPROVED

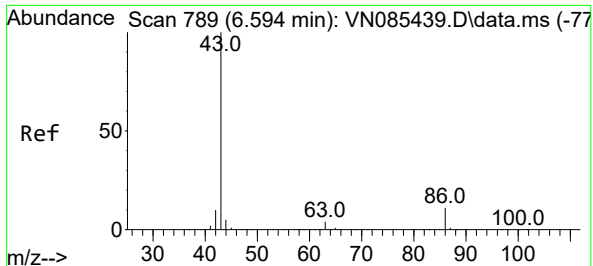
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#22
Diisopropyl ether
Concen: 49.208 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 45 Resp: 381754
Ion Ratio Lower Upper
45 100
43 55.5 45.0 67.6
87 31.9 21.8 32.8
59 12.2 10.2 15.2





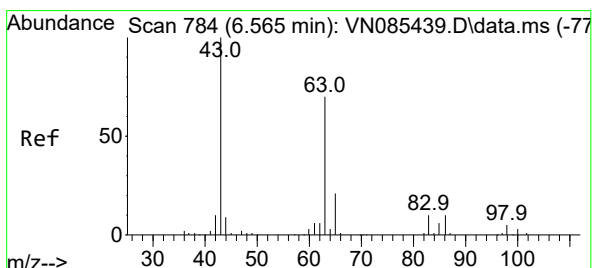
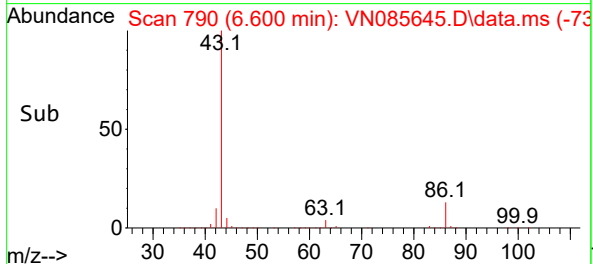
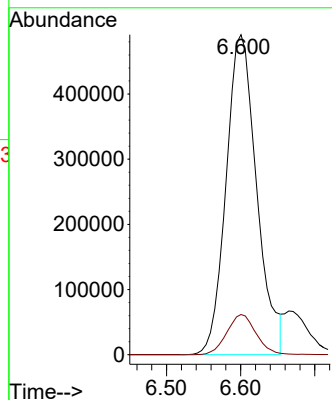
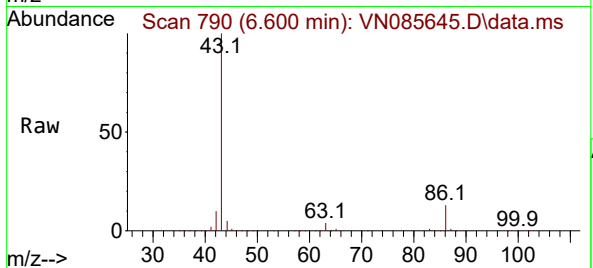
#23
Vinyl Acetate
Concen: 259.616 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 140953
Ion Ratio Lower Upper
43 100
86 12.5 8.4 12.6

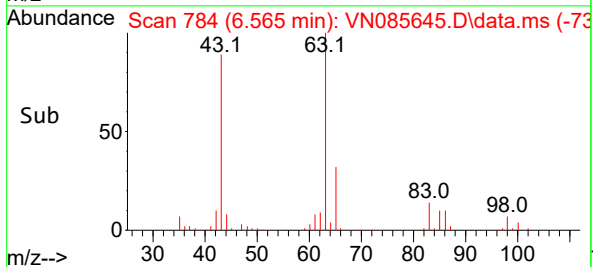
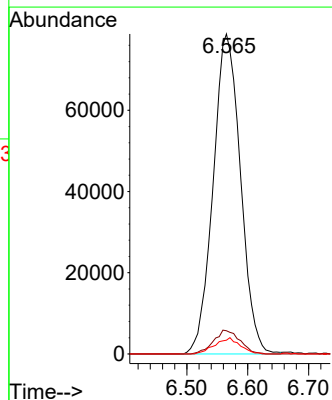
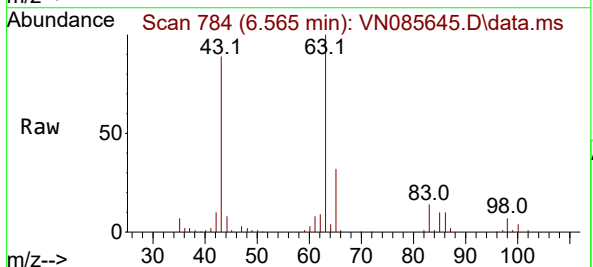
Manual Integrations
APPROVED

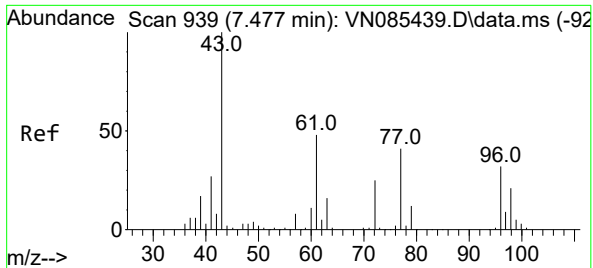
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#24
1,1-Dichloroethane
Concen: 51.962 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

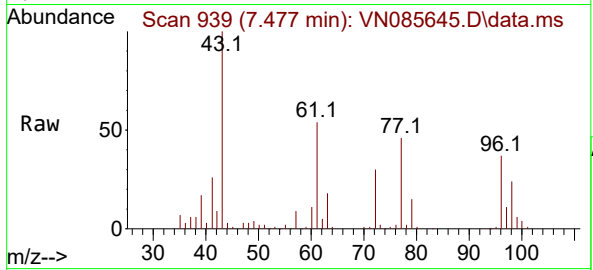
Tgt Ion: 63 Resp: 245805
Ion Ratio Lower Upper
63 100
98 7.2 3.3 9.8
100 4.3 2.0 6.0





#25
2-Butanone
Concen: 241.685 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

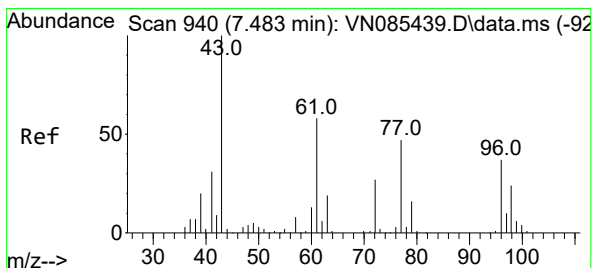
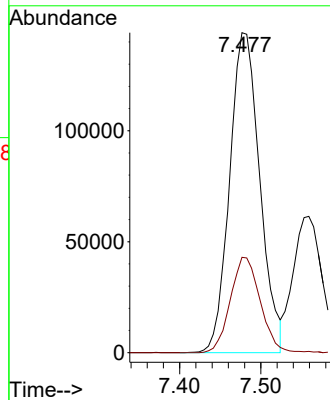
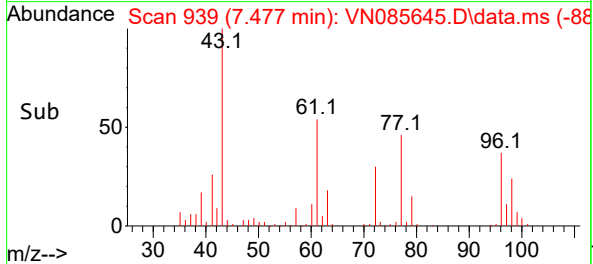
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



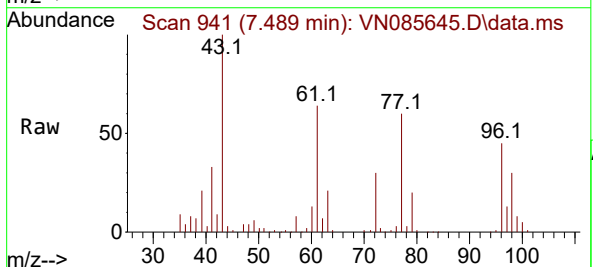
Tgt Ion: 43 Resp: 37230
Ion Ratio Lower Upper
43 100
72 29.8 20.2 30.4

Manual Integrations
APPROVED

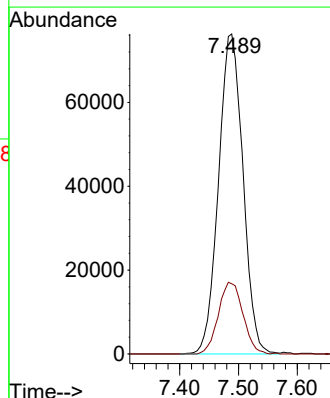
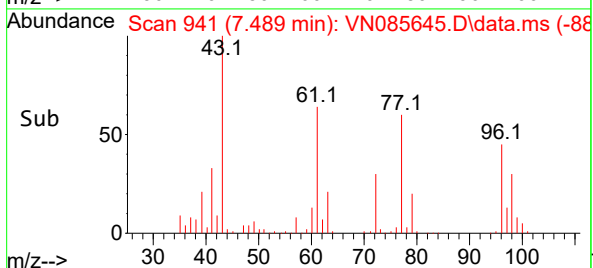
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

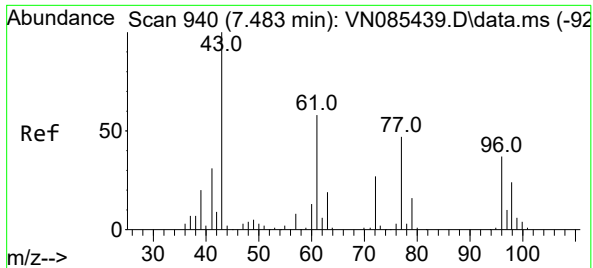


#26
2,2-Dichloropropane
Concen: 57.562 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



Tgt Ion: 77 Resp: 220150
Ion Ratio Lower Upper
77 100
97 22.5 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 57.208 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 15511

Ion Ratio Lower Upper

96 100

61 143.8 0.0 311.8

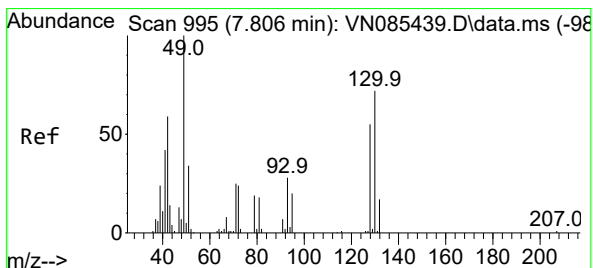
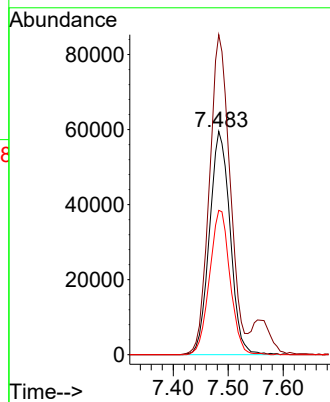
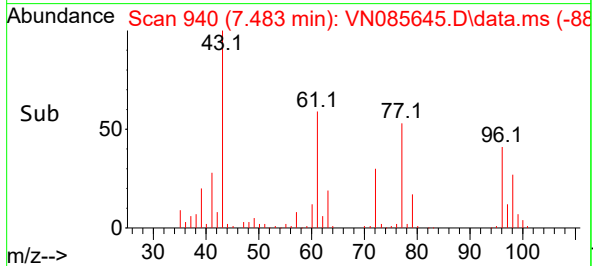
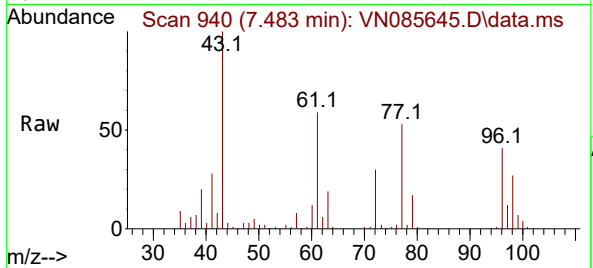
98 64.1 0.0 126.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#28

Bromochloromethane

Concen: 43.426 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

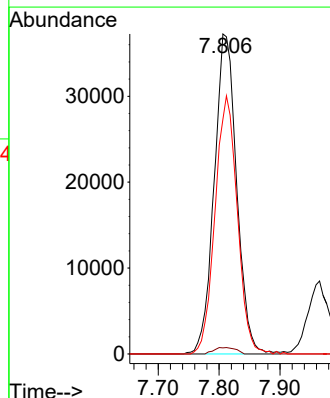
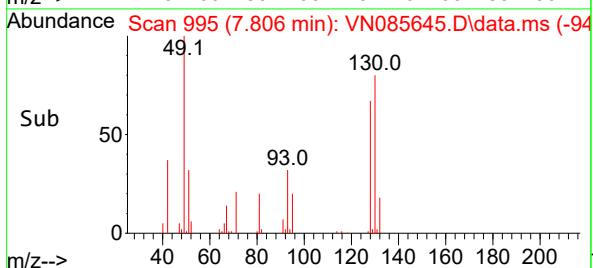
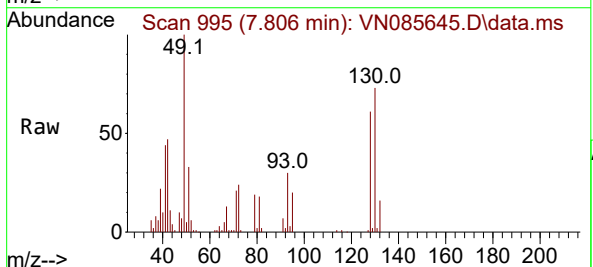
Tgt Ion: 49 Resp: 95572

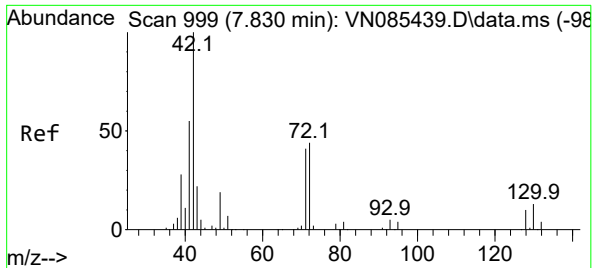
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.4

130 79.8 55.0 82.4





#29

Tetrahydrofuran

Concen: 255.923 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 249949

Ion Ratio Lower Upper

42 100

72 49.7 34.2 51.2

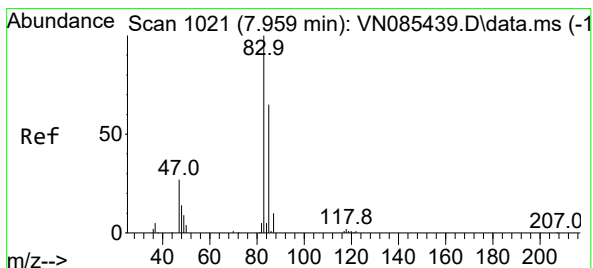
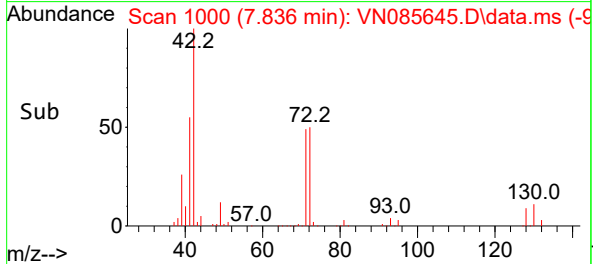
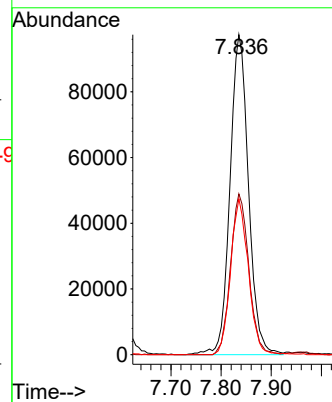
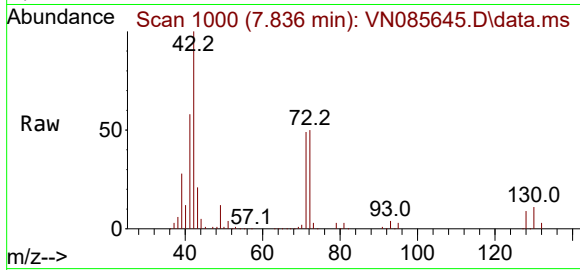
71 46.9 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#30

Chloroform

Concen: 51.611 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085645.D

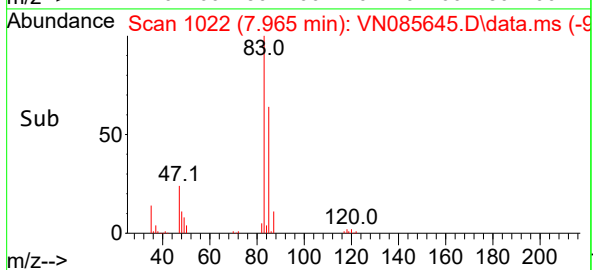
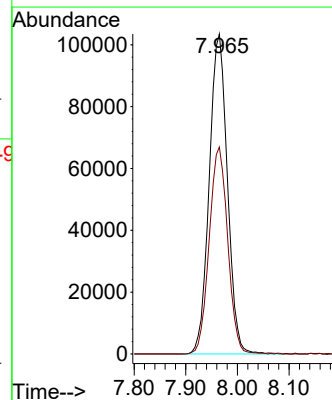
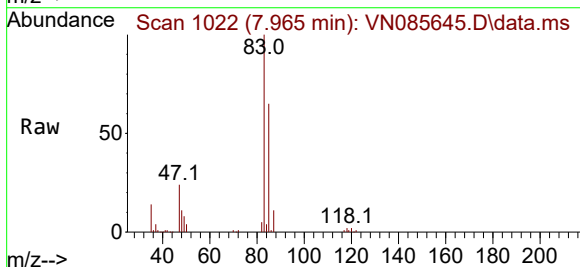
Acq: 04 Feb 2025 11:05

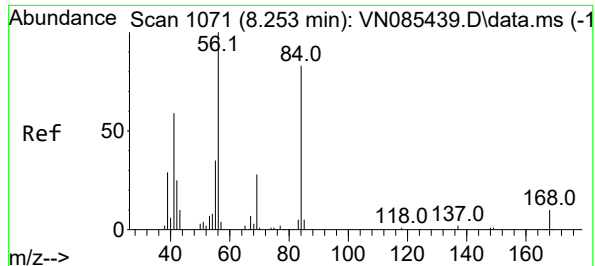
Tgt Ion: 83 Resp: 252335

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6





#31

Cyclohexane

Concen: 49.690 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 204300

Ion Ratio Lower Upper

56 100

69 32.5 22.2 33.4

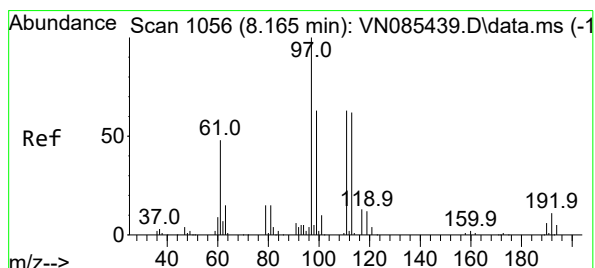
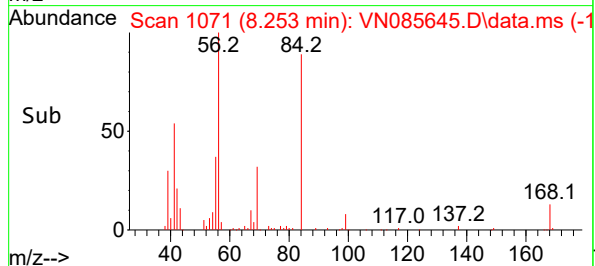
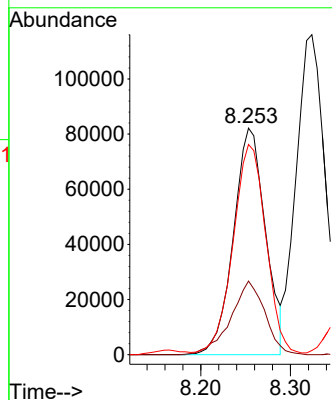
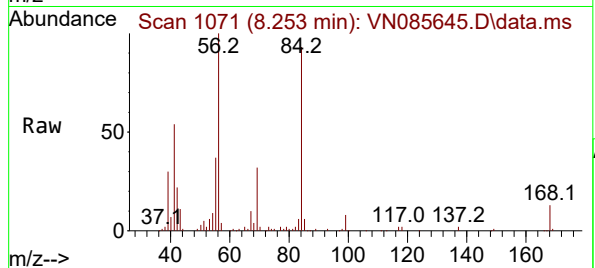
84 91.5 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#32

1,1,1-Trichloroethane

Concen: 52.509 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

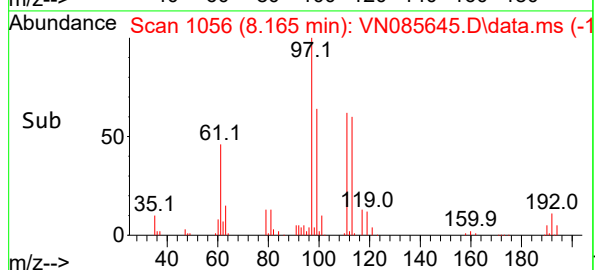
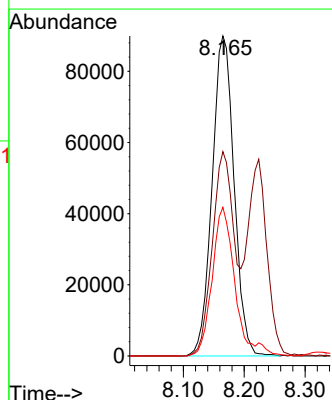
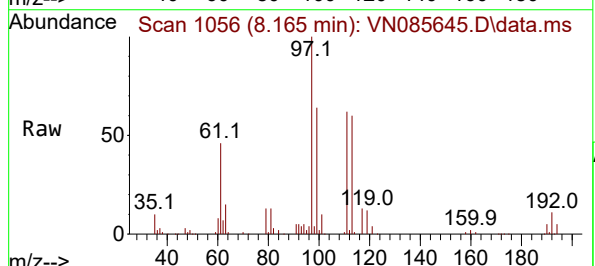
Tgt Ion: 97 Resp: 225191

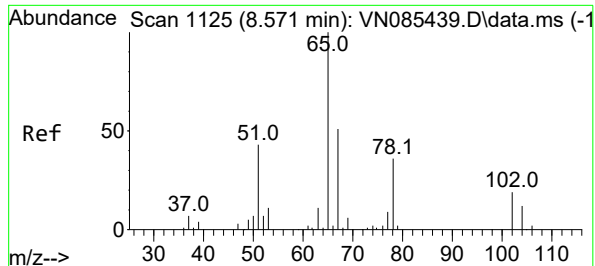
Ion Ratio Lower Upper

97 100

99 64.3 49.8 74.6

61 48.2 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 47.780 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 154798

Ion Ratio Lower Upper

65 100

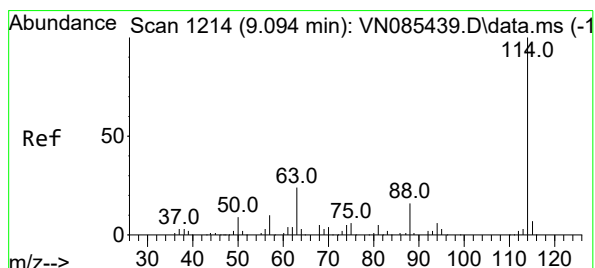
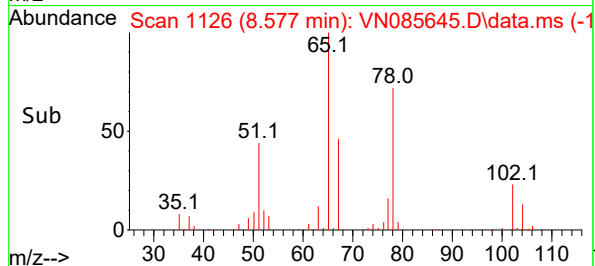
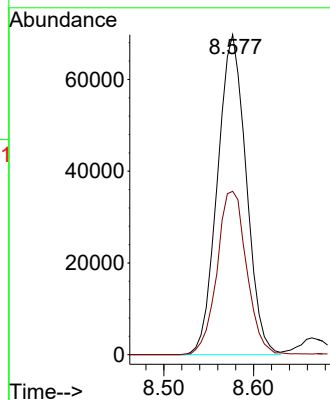
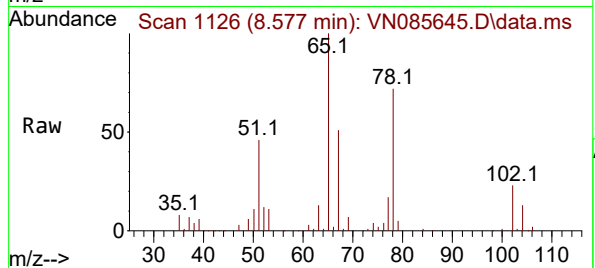
67 52.9 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

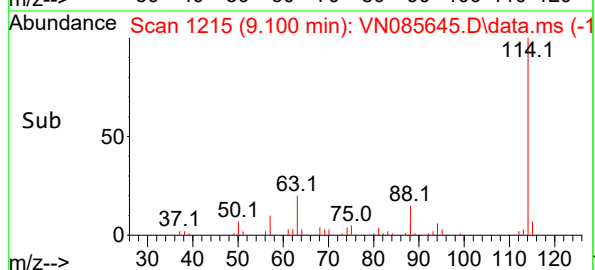
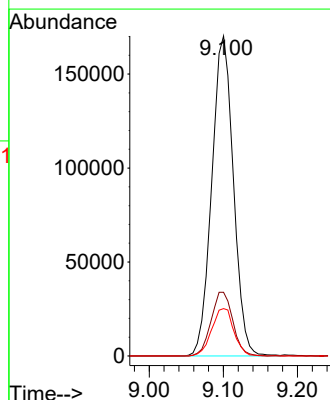
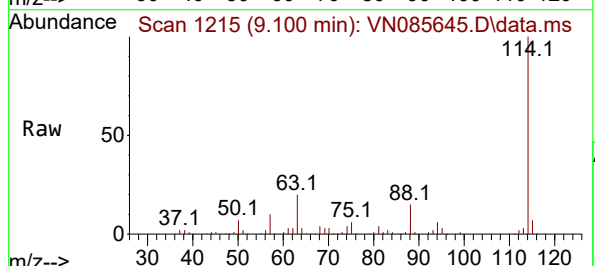
Tgt Ion:114 Resp: 345148

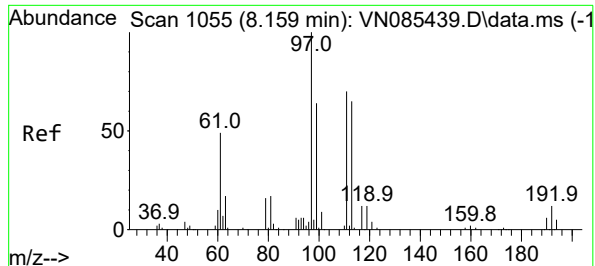
Ion Ratio Lower Upper

114 100

63 19.9 0.0 47.6

88 14.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.153 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085645.D

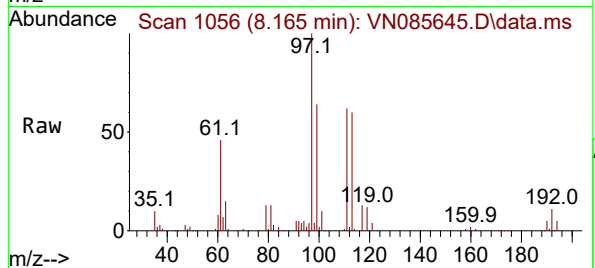
Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion:113 Resp: 127274

Ion Ratio Lower Upper

113 100

111 104.1 82.7 124.1

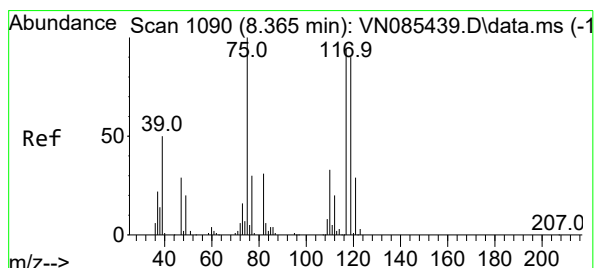
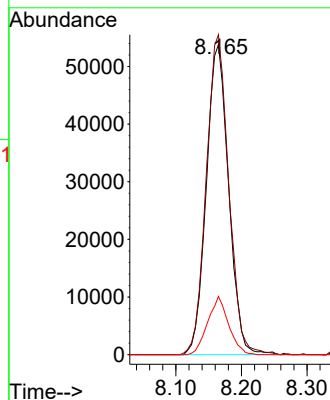
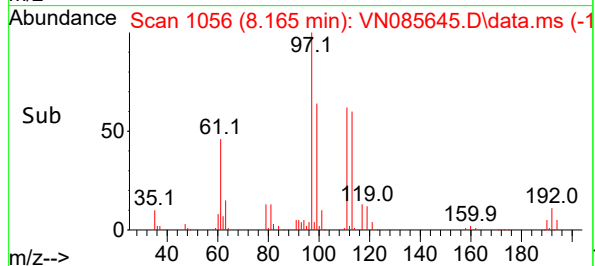
192 17.6 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#36

1,1-Dichloropropene

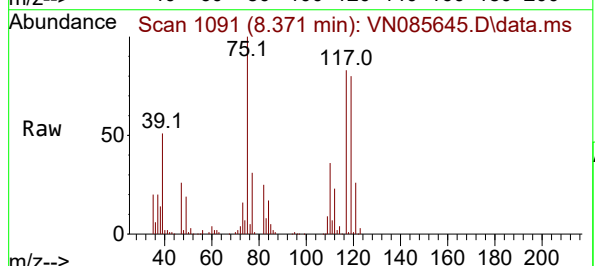
Concen: 54.731 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05



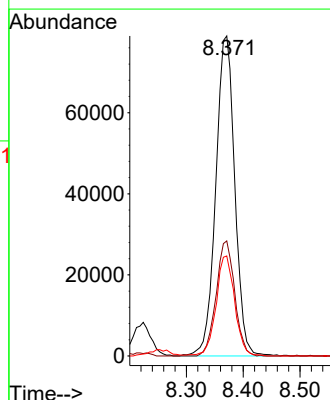
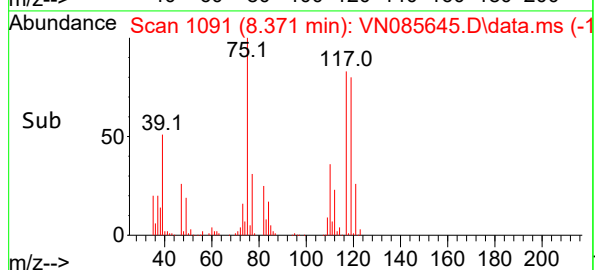
Tgt Ion: 75 Resp: 183927

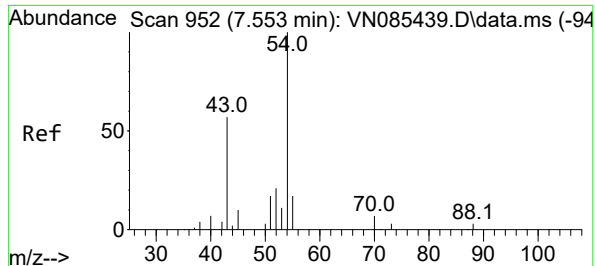
Ion Ratio Lower Upper

75 100

110 35.1 16.5 49.5

77 30.7 24.4 36.6





#37

Ethyl Acetate

Concen: 46.933 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 15919

Ion Ratio Lower Upper

43 100

61 14.2 10.9 16.3

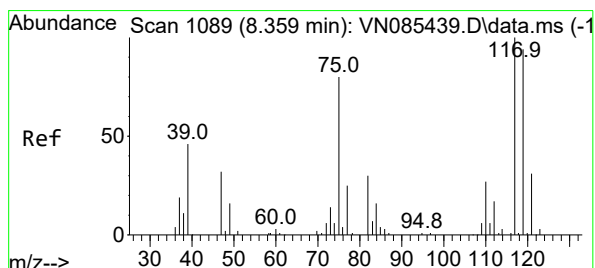
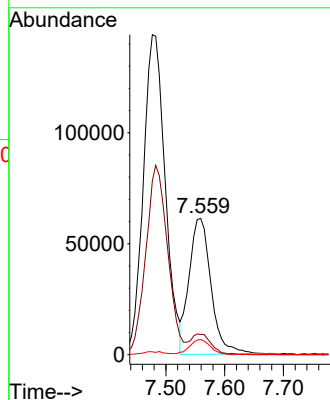
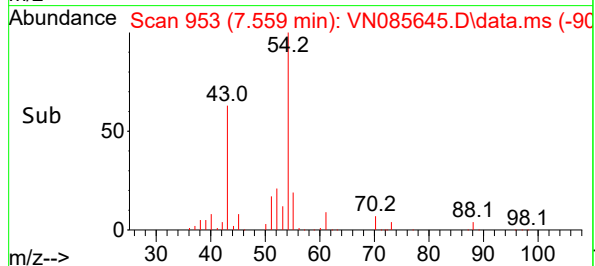
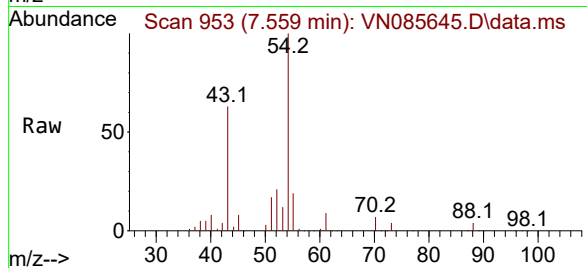
70 10.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#38

Carbon Tetrachloride

Concen: 52.524 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

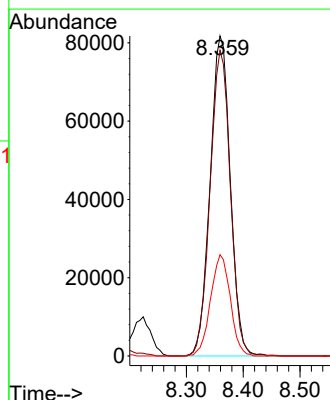
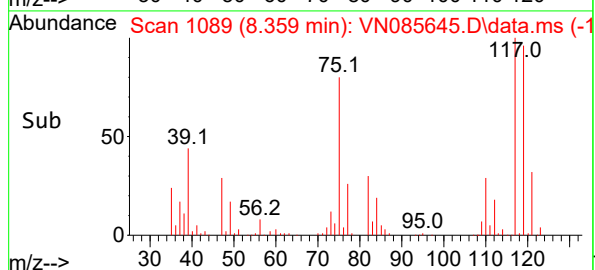
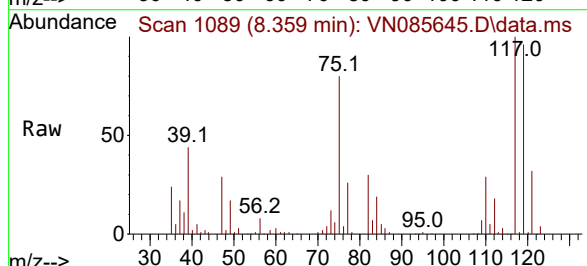
Tgt Ion:117 Resp: 202078

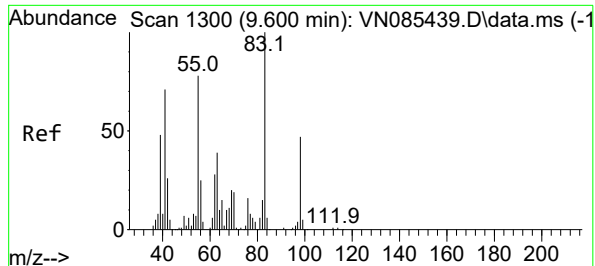
Ion Ratio Lower Upper

117 100

119 95.5 75.4 113.2

121 31.6 24.6 37.0





#39

Methylcyclohexane

Concen: 62.021 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 19585

Ion Ratio Lower Upper

83 100

55 70.7 62.6 94.0

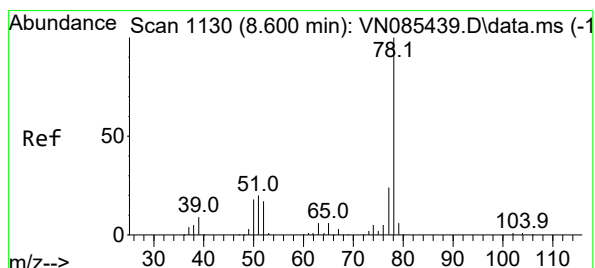
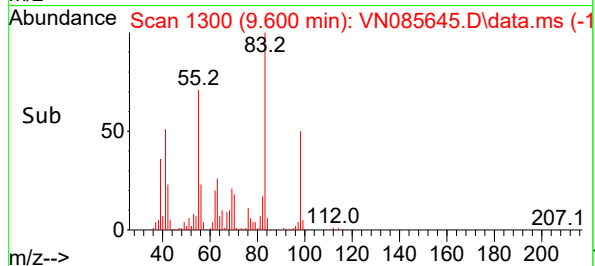
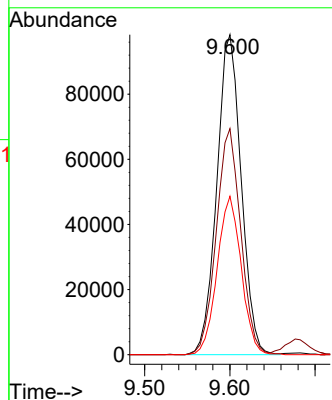
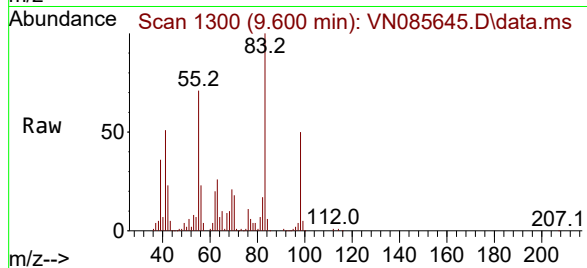
98 49.5 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#40

Benzene

Concen: 56.166 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085645.D

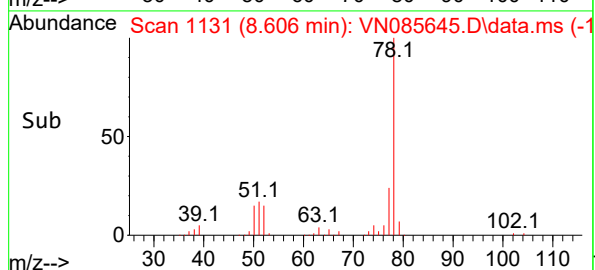
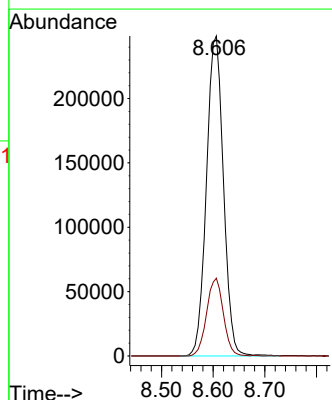
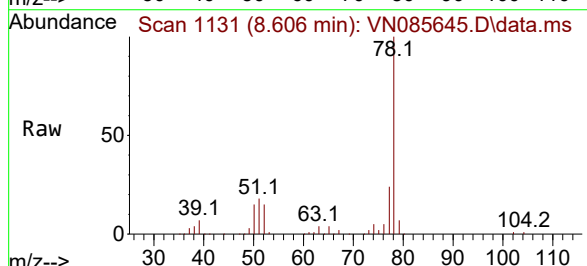
Acq: 04 Feb 2025 11:05

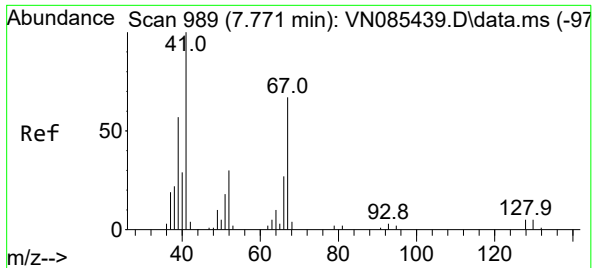
Tgt Ion: 78 Resp: 567137

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.6





#41

Methacrylonitrile

Concen: 46.204 ug/l

RT: 7.777 min Scan# 989

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 81539

Ion Ratio Lower Upper

41 100

39 60.2 46.0 69.0

67 85.5 57.4 86.2

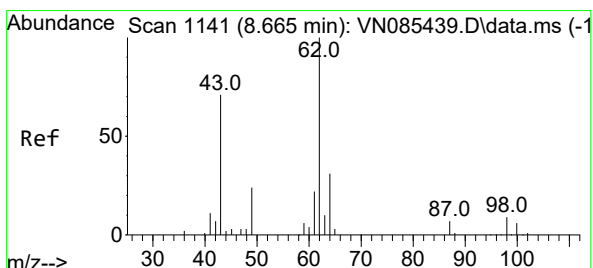
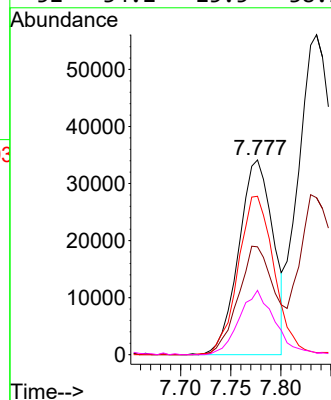
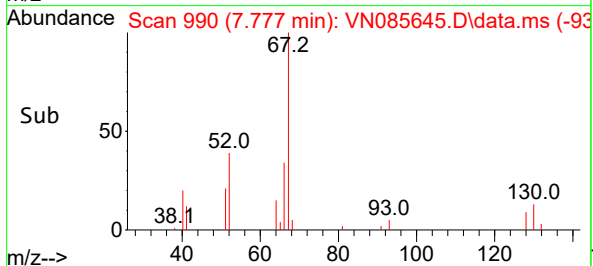
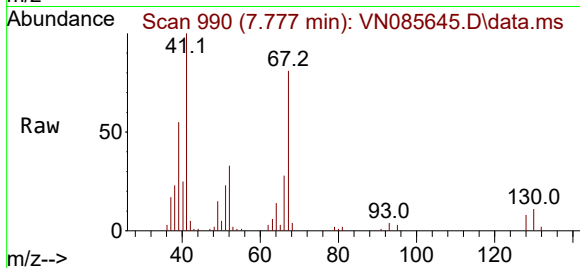
52 34.2 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#42

1,2-Dichloroethane

Concen: 48.850 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085645.D

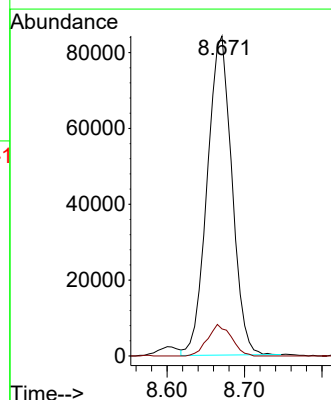
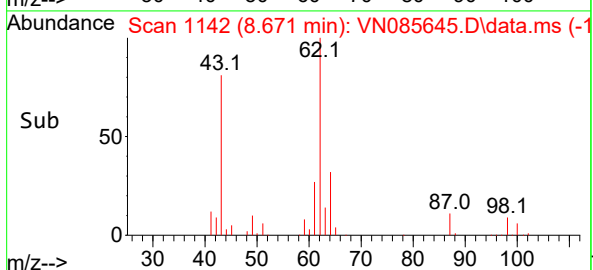
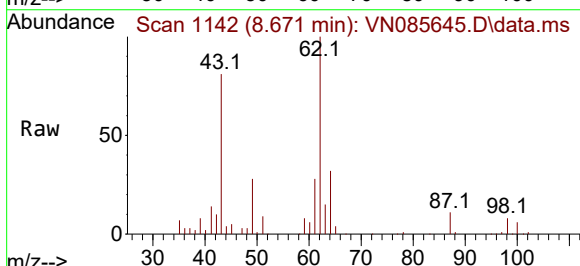
Acq: 04 Feb 2025 11:05

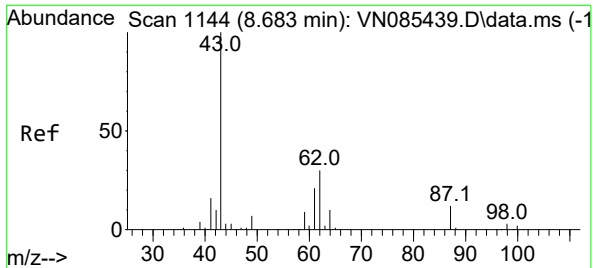
Tgt Ion: 62 Resp: 185776

Ion Ratio Lower Upper

62 100

98 9.5 0.0 17.0





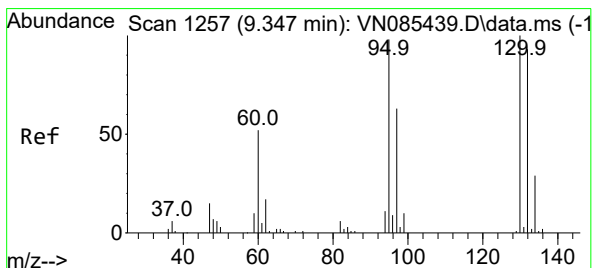
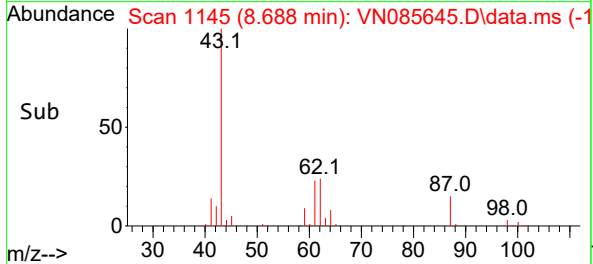
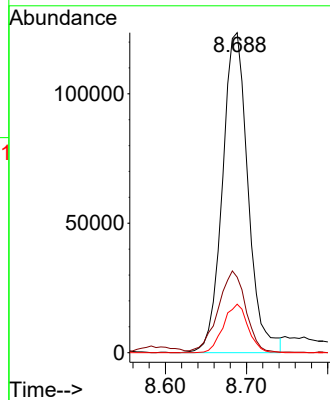
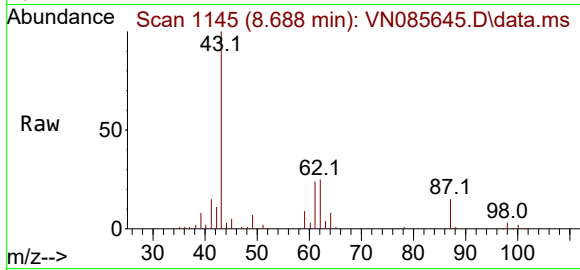
#43
Isopropyl Acetate
Concen: 49.962 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 27155
Ion Ratio Lower Upper
43 100
61 27.9 20.7 31.1
87 14.6 9.8 14.8

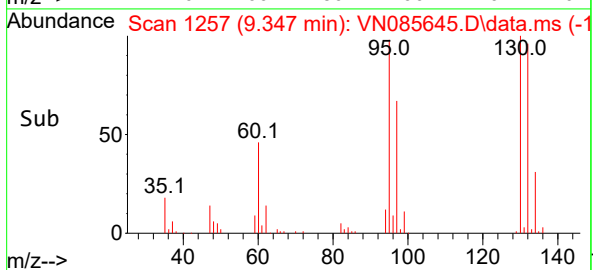
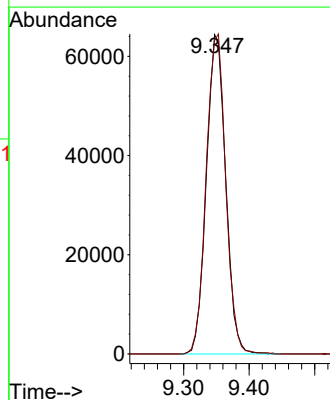
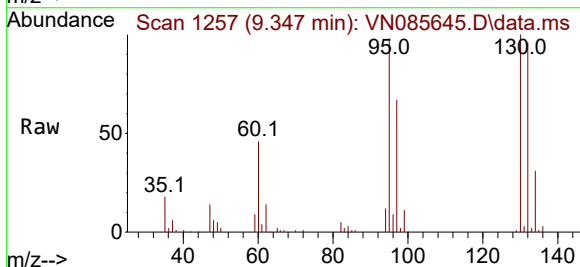
Manual Integrations
APPROVED

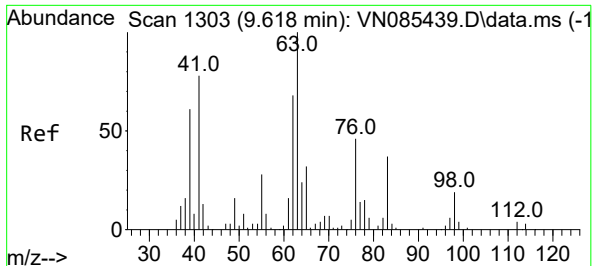
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#44
Trichloroethene
Concen: 56.068 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:130 Resp: 131785
Ion Ratio Lower Upper
130 100
95 98.1 0.0 195.8





#45

1,2-Dichloropropane

Concen: 53.137 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 13705

Ion Ratio Lower Upper

63 100

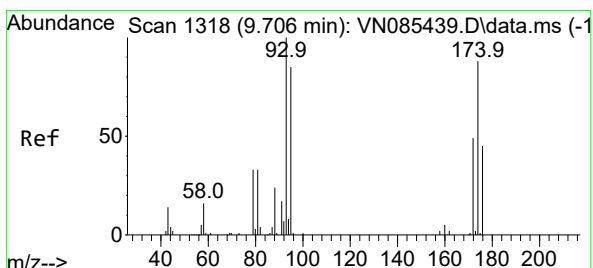
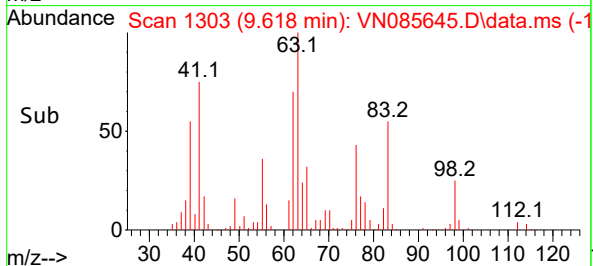
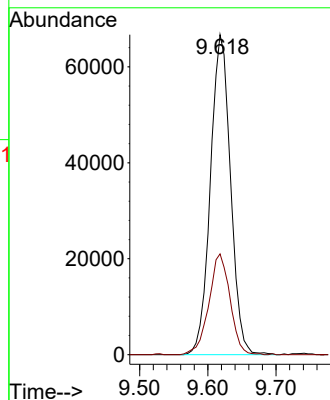
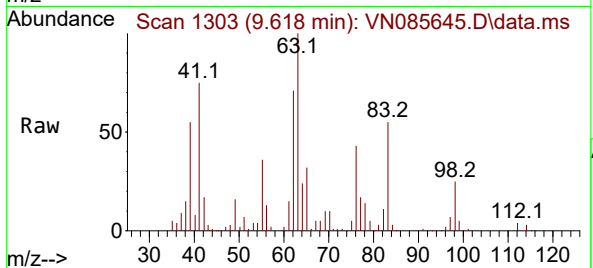
65 31.5 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#46

Dibromomethane

Concen: 52.419 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

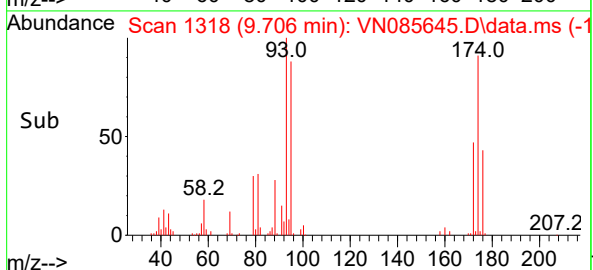
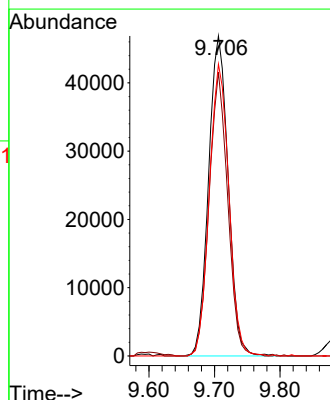
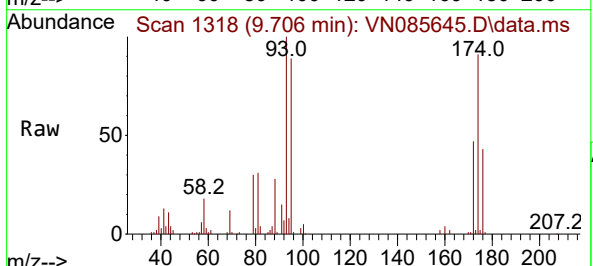
Tgt Ion: 93 Resp: 97554

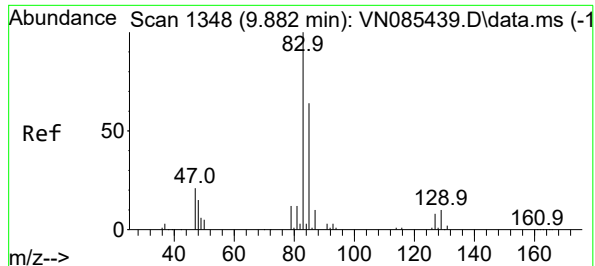
Ion Ratio Lower Upper

93 100

95 84.0 64.7 97.1

174 90.8 69.0 103.4





#47

Bromodichloromethane

Concen: 53.411 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

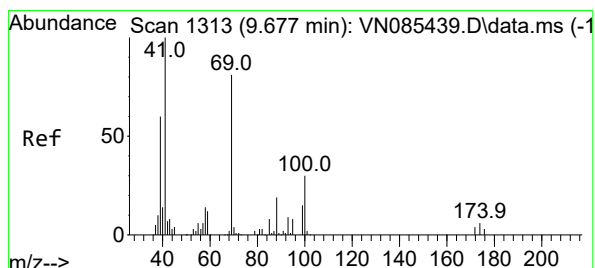
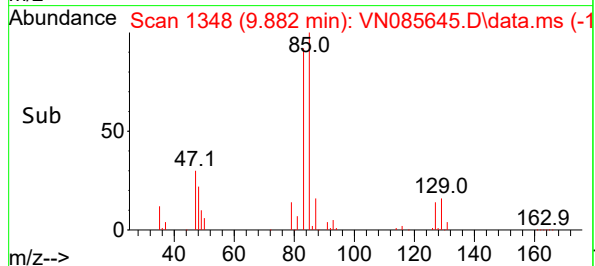
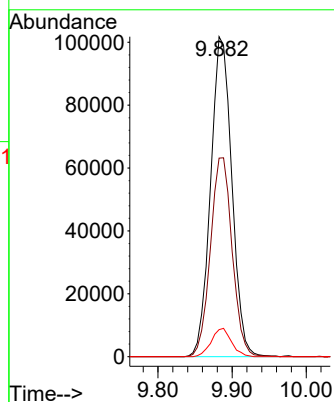
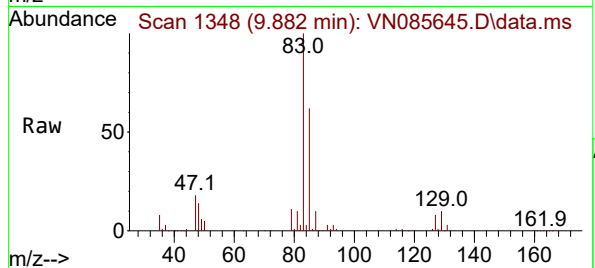
VSTDCCC050

Tgt Ion: 83 Resp: 202509
Ion Ratio Lower Upper
83 100
85 62.0 51.2 76.8
127 8.5 6.5 9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#48

Methyl methacrylate

Concen: 50.045 ug/l

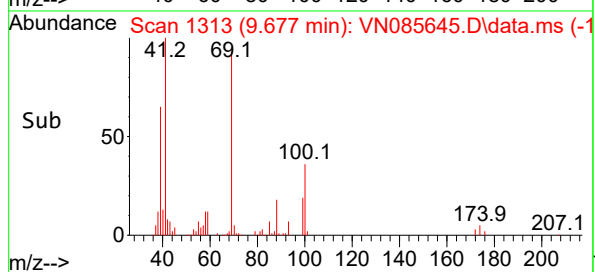
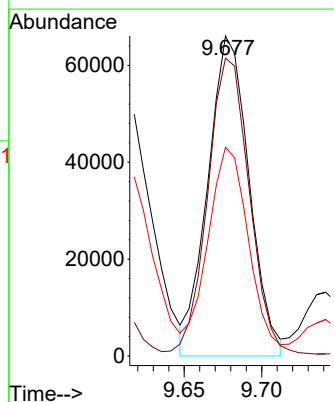
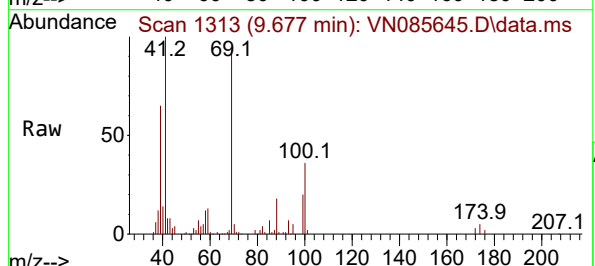
RT: 9.677 min Scan# 1313

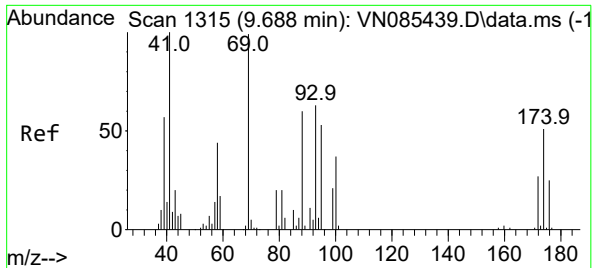
Delta R.T. -0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Tgt Ion: 41 Resp: 122409
Ion Ratio Lower Upper
41 100
69 94.5 64.7 97.1
39 65.0 49.0 73.6





#49

1,4-Dioxane

Concen: 1142.294 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 4705

Ion Ratio Lower Upper

88 100

43 24.5 26.6 39.8

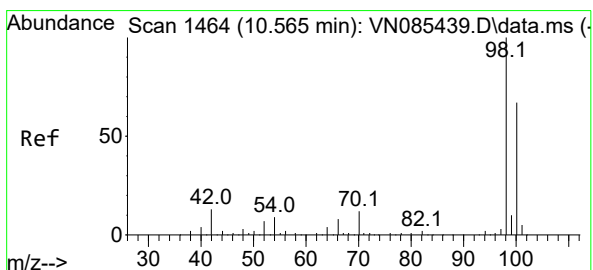
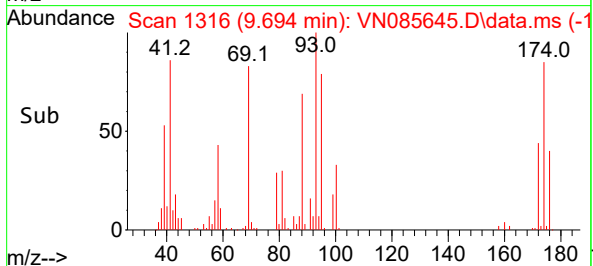
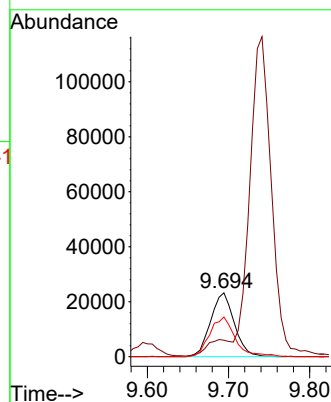
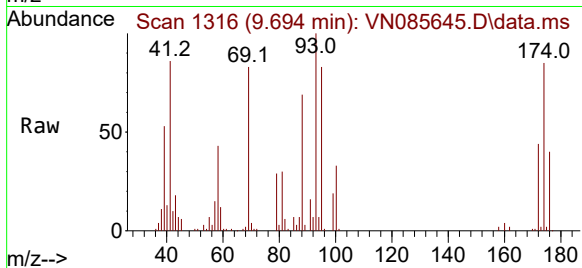
58 66.8 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#50

Toluene-d8

Concen: 55.713 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085645.D

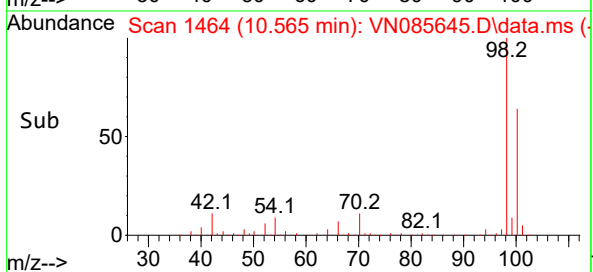
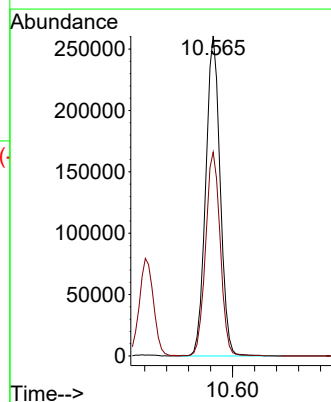
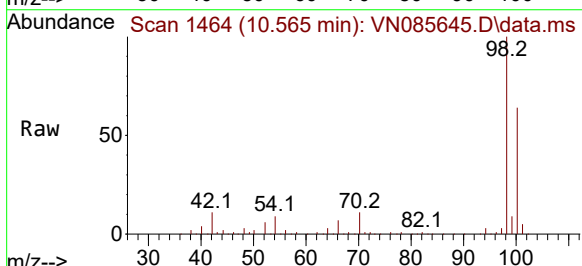
Acq: 04 Feb 2025 11:05

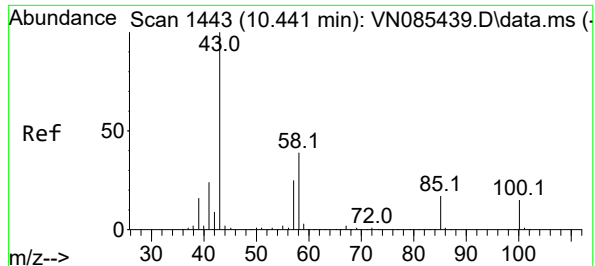
Tgt Ion: 98 Resp: 473979

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4





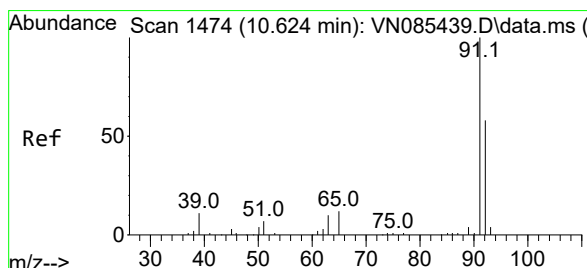
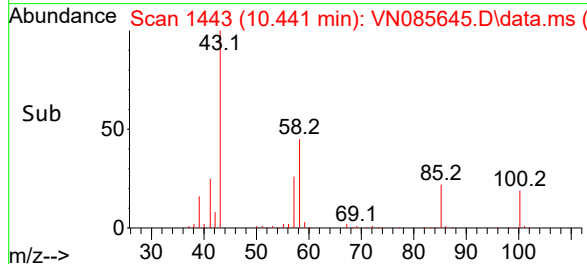
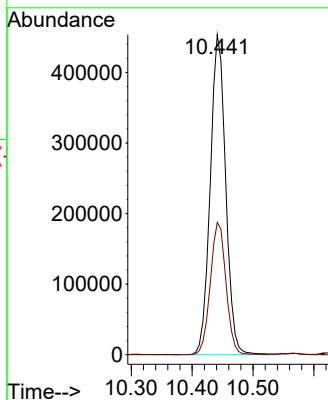
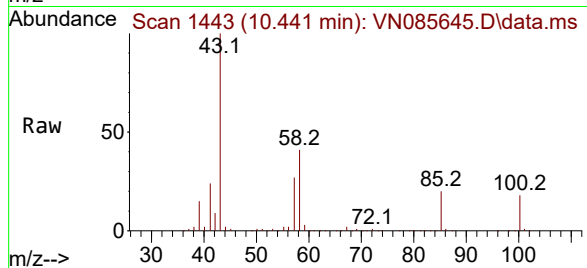
#51
4-Methyl-2-Pentanone
Concen: 253.917 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 80085
Ion Ratio Lower Upper
43 100
58 41.9 30.5 45.7

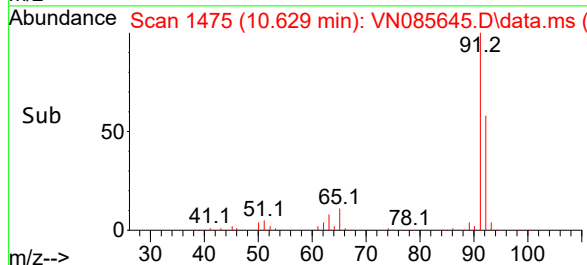
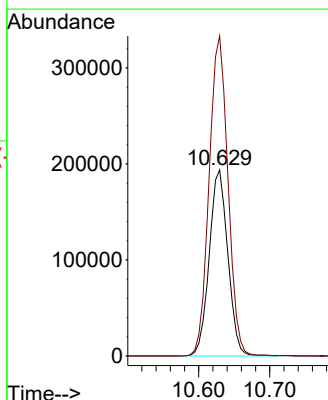
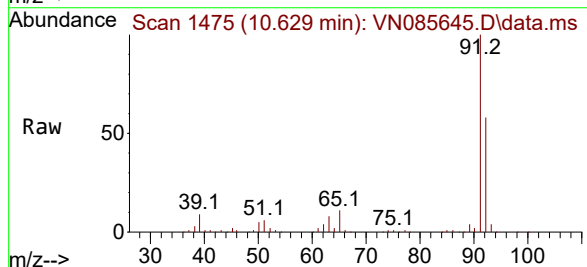
Manual Integrations
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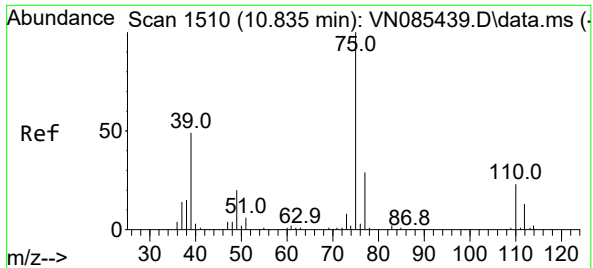
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#52
Toluene
Concen: 60.150 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

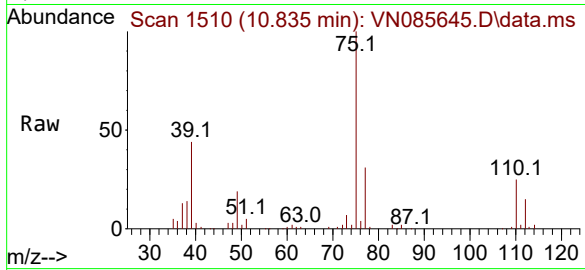
Tgt Ion: 92 Resp: 351922
Ion Ratio Lower Upper
92 100
91 174.5 139.2 208.8





#53
t-1,3-Dichloropropene
Concen: 57.048 ug/l
RT: 10.835 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

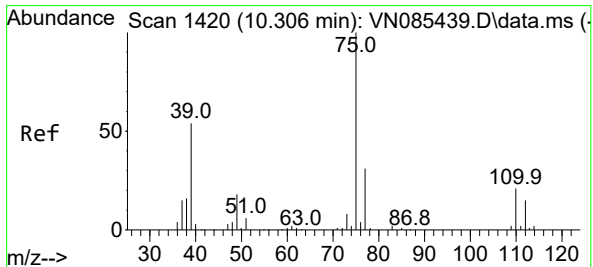
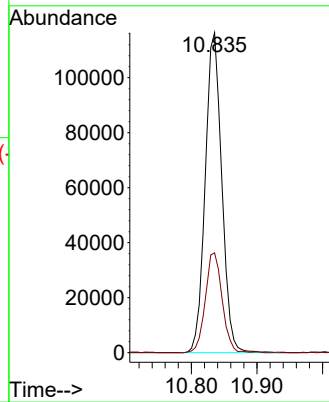
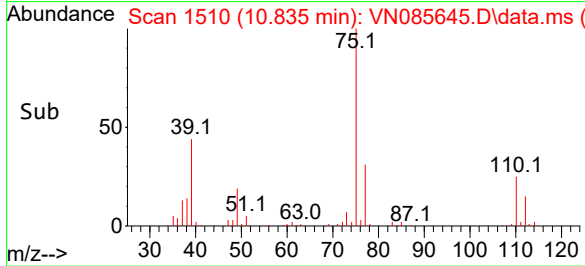
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



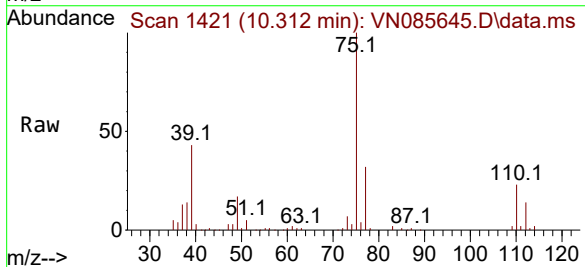
Tgt Ion: 75 Resp: 20440
Ion Ratio Lower Upper
75 100
77 31.2 23.5 35.3

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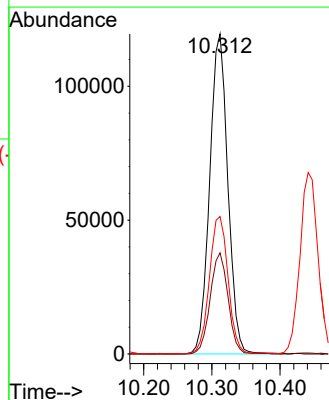
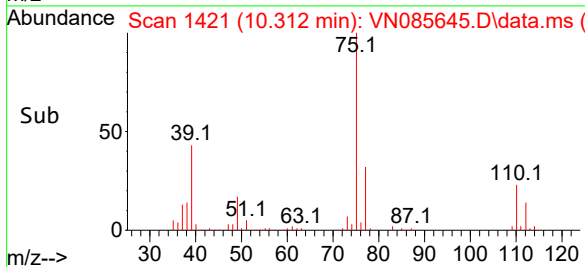
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

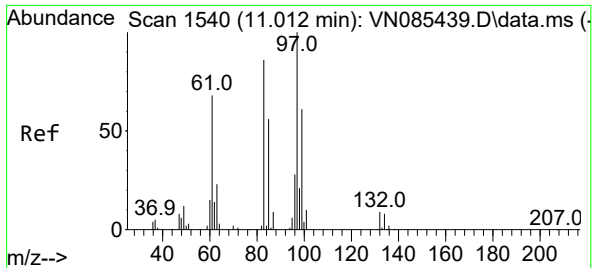


#54
cis-1,3-Dichloropropene
Concen: 57.810 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



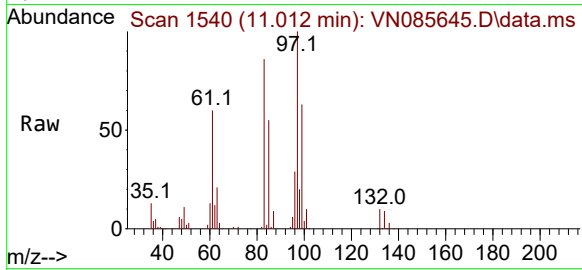
Tgt Ion: 75 Resp: 221256
Ion Ratio Lower Upper
75 100
77 31.6 25.0 37.4
39 42.8 43.1 64.7#





#55
1,1,2-Trichloroethane
Concen: 55.842 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

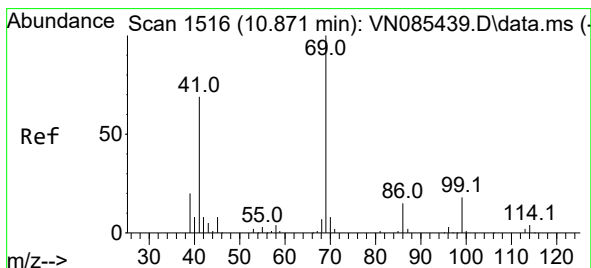
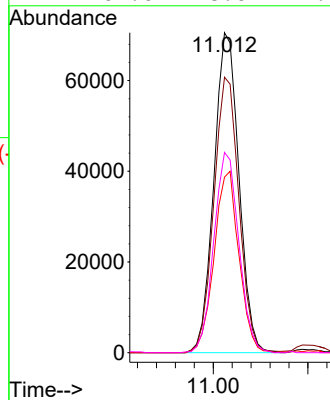
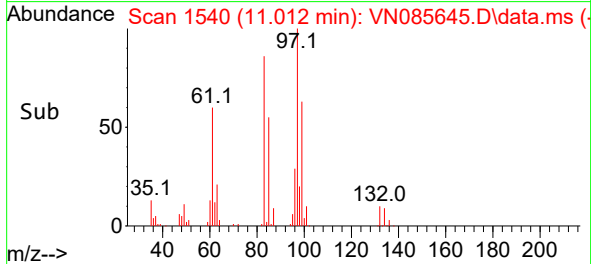
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 97 Resp: 129290
Ion Ratio Lower Upper
97 100
83 86.1 69.0 103.6
85 54.9 44.6 66.8
99 62.6 48.6 72.8

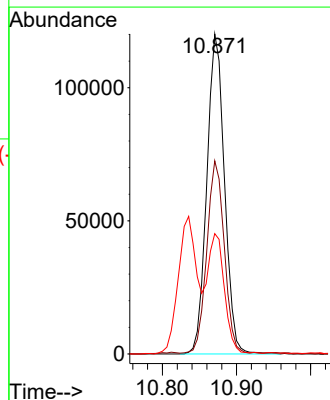
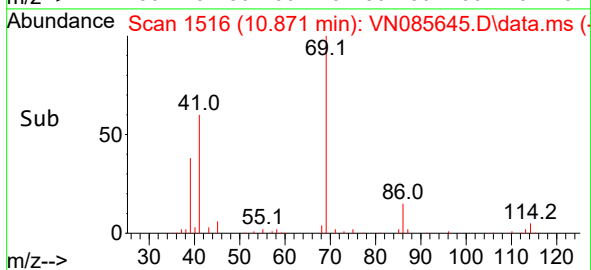
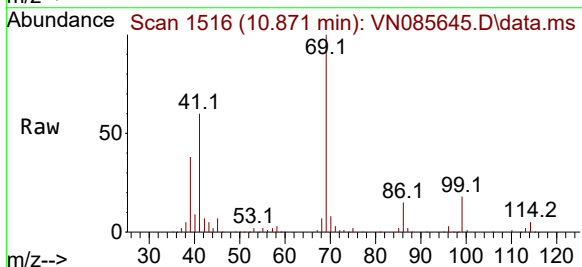
Manual Integrations
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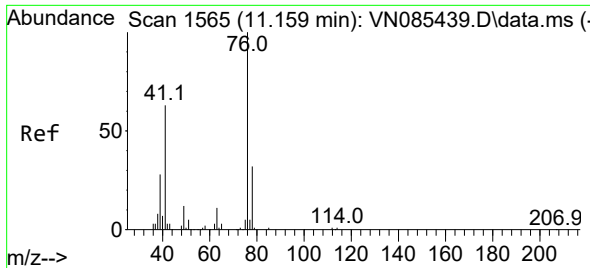
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#56
Ethyl methacrylate
Concen: 50.997 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 69 Resp: 199066
Ion Ratio Lower Upper
69 100
41 59.3 54.6 82.0
39 35.8 32.4 48.6





#57

1,3-Dichloropropane

Concen: 56.030 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 225579

Ion Ratio Lower Upper

76 100

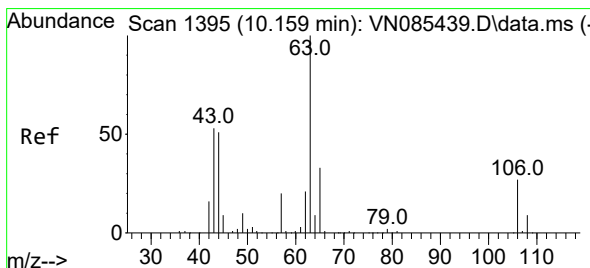
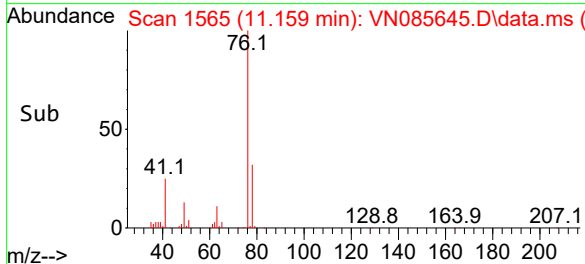
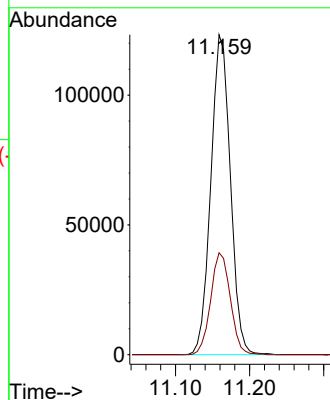
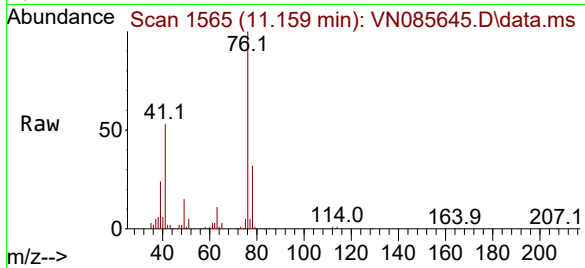
78 32.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 228.313 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085645.D

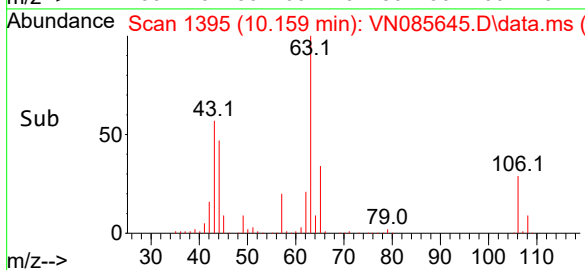
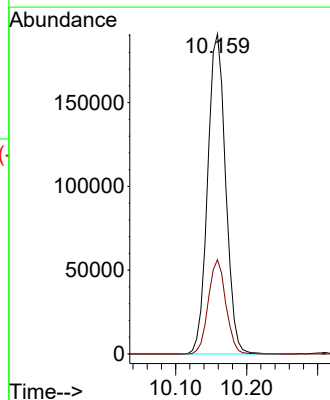
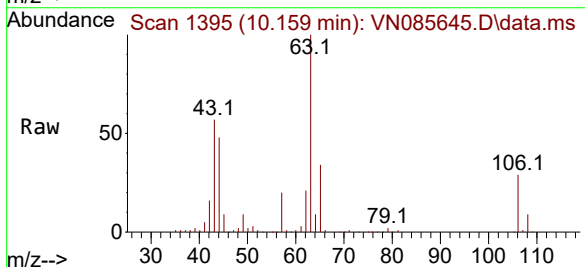
Acq: 04 Feb 2025 11:05

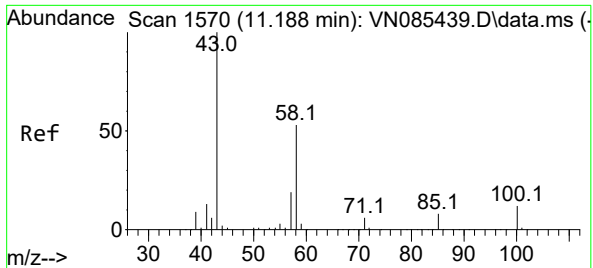
Tgt Ion: 63 Resp: 335470

Ion Ratio Lower Upper

63 100

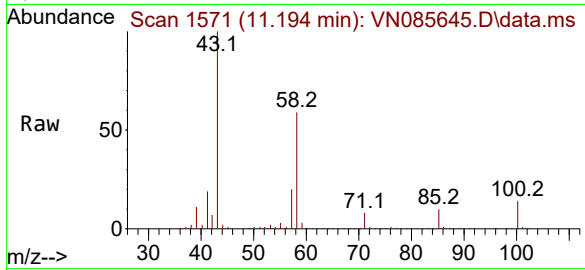
106 28.7 21.6 32.4





#59
2-Hexanone
Concen: 261.399 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

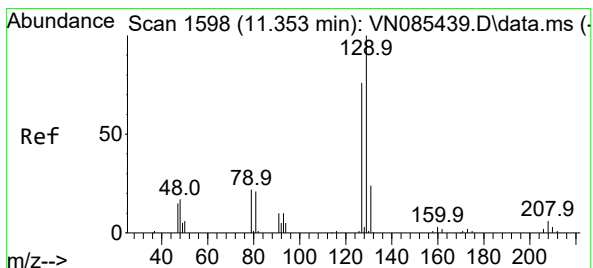
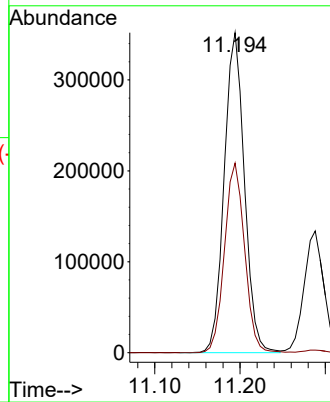
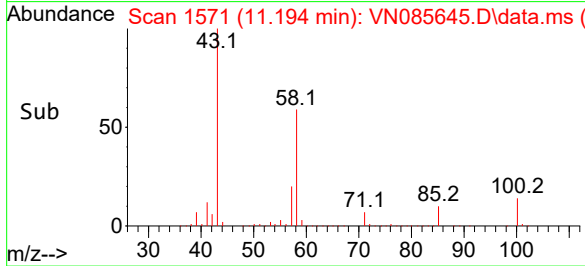
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



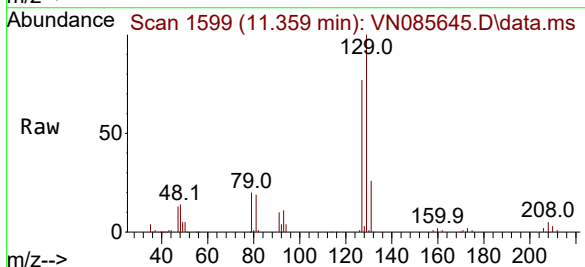
Tgt Ion: 43 Resp: 580109
Ion Ratio Lower Upper
43 100
58 58.9 26.2 78.6

Manual Integrations
APPROVED

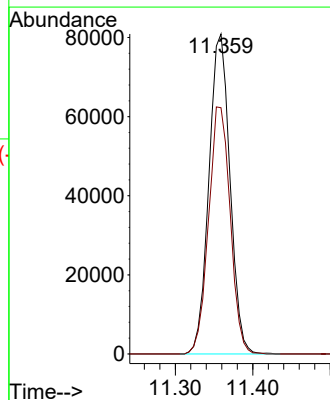
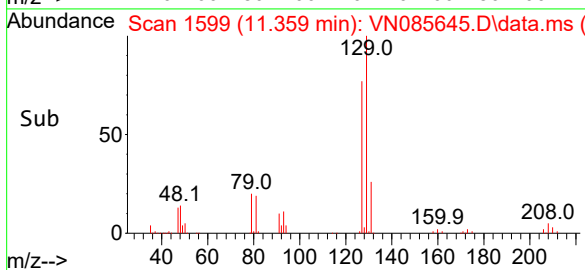
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

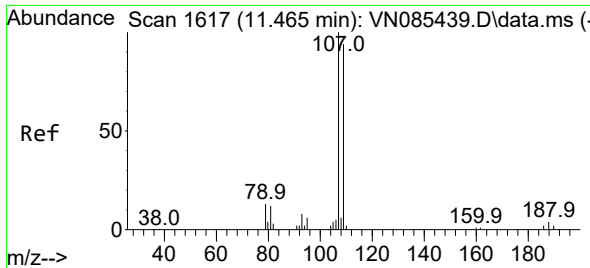


#60
Dibromochloromethane
Concen: 54.508 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



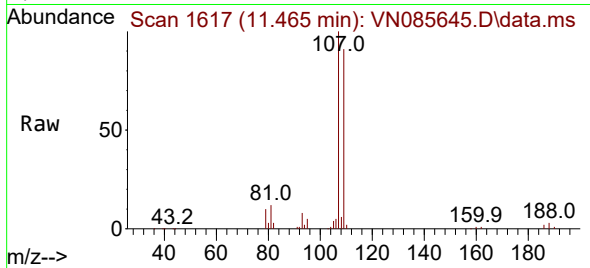
Tgt Ion:129 Resp: 152370
Ion Ratio Lower Upper
129 100
127 79.3 38.6 115.8





#61
1,2-Dibromoethane
Concen: 56.226 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

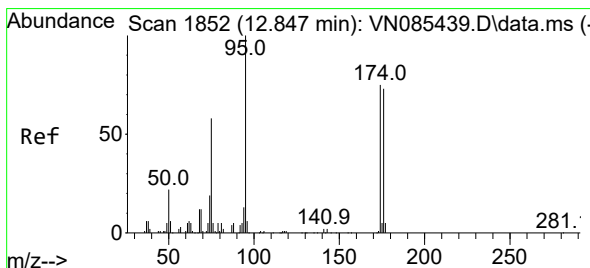
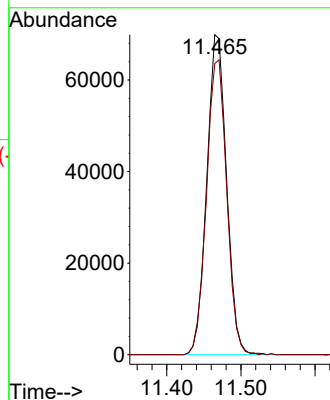
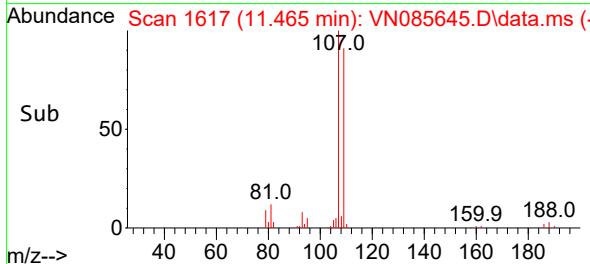
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:107 Resp: 129588
Ion Ratio Lower Upper
107 100
109 94.2 75.9 113.9

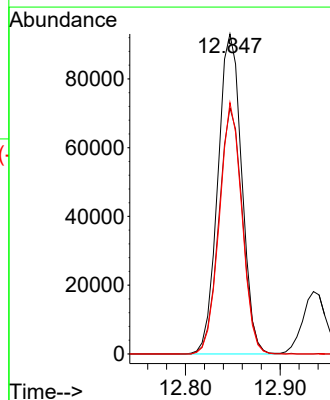
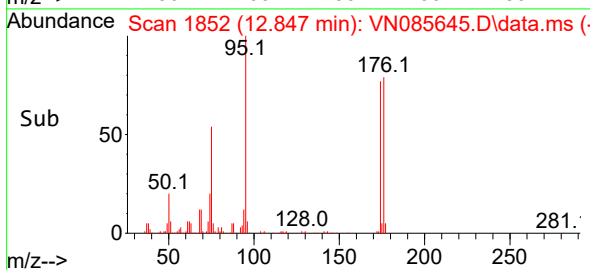
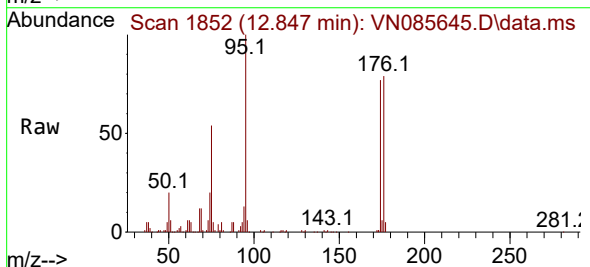
Manual Integrations
APPROVED

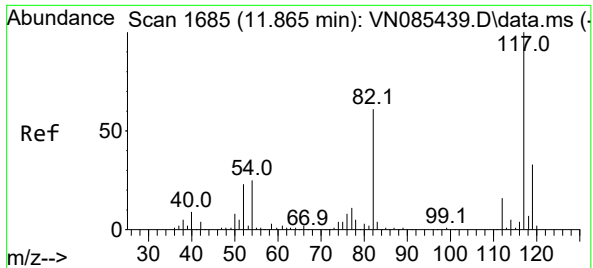
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#62
4-Bromofluorobenzene
Concen: 56.013 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 95 Resp: 163009
Ion Ratio Lower Upper
95 100
174 75.9 0.0 145.0
176 73.9 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 30905

Ion Ratio Lower Upper

117 100

82 56.3 48.6 72.8

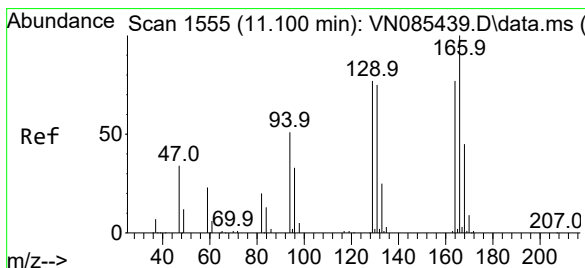
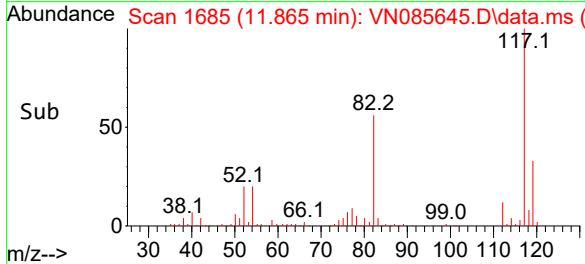
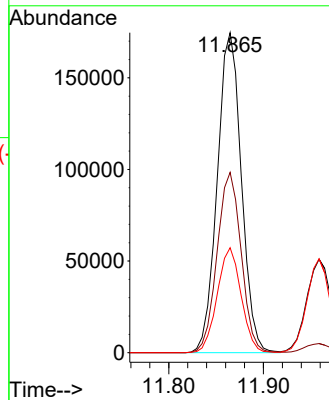
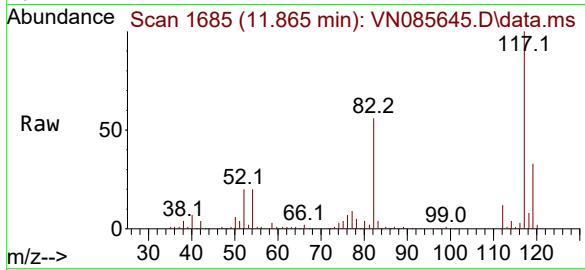
119 32.8 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#64

Tetrachloroethene

Concen: 58.273 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Tgt Ion:164 Resp: 122776

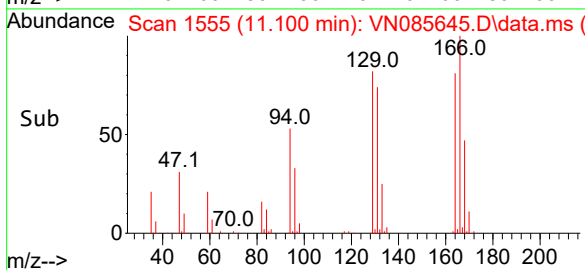
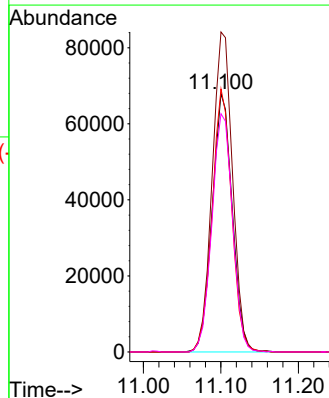
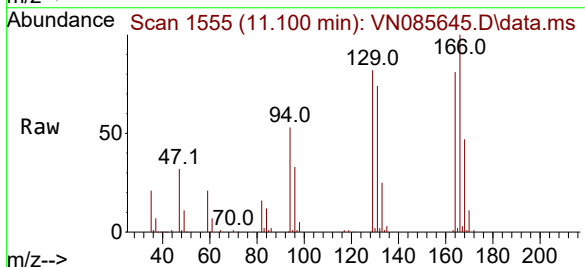
Ion Ratio Lower Upper

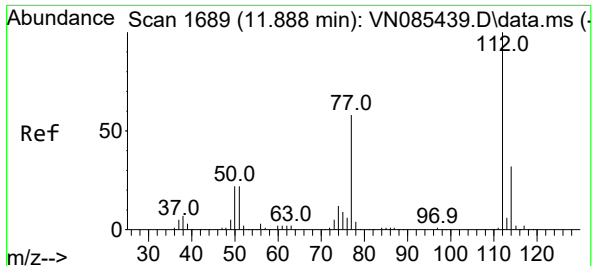
164 100

166 123.9 103.4 155.2

129 101.8 79.2 118.8

131 92.2 77.1 115.7





#65

Chlorobenzene

Concen: 56.165 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 38025

Ion Ratio Lower Upper

112 100

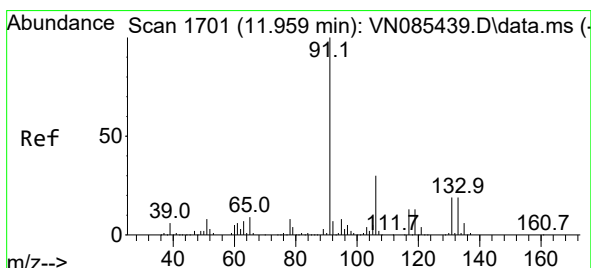
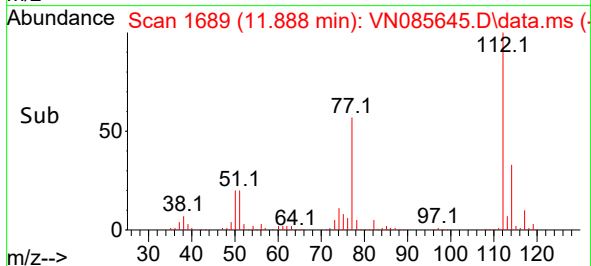
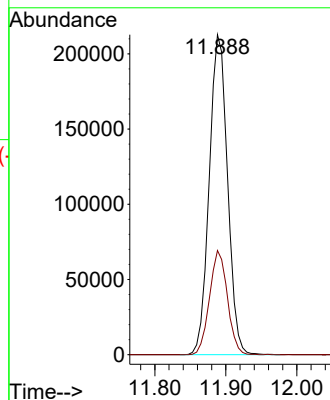
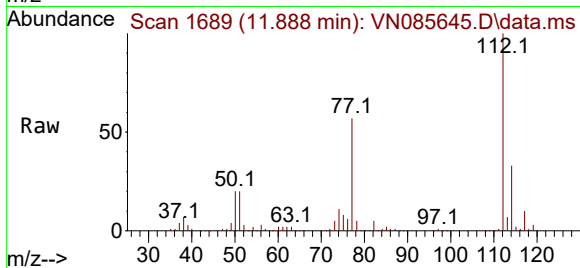
114 32.6 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 53.847 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

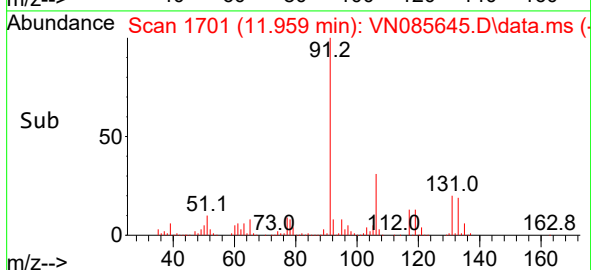
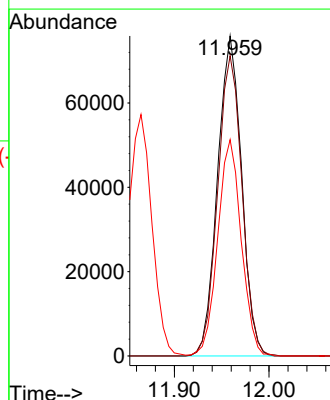
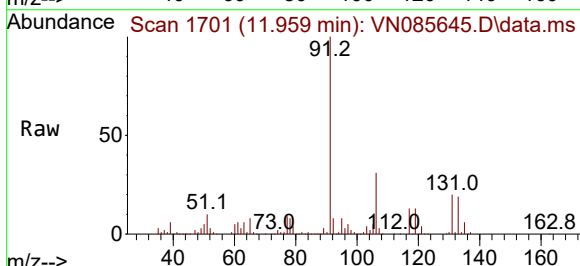
Tgt Ion:131 Resp: 133801

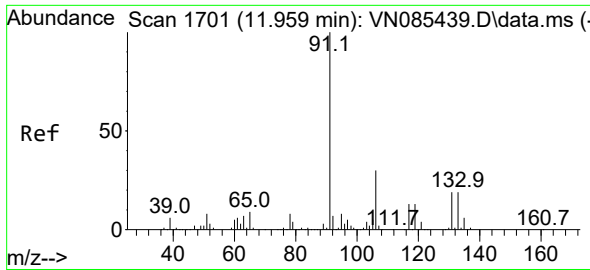
Ion Ratio Lower Upper

131 100

133 95.1 47.4 142.3

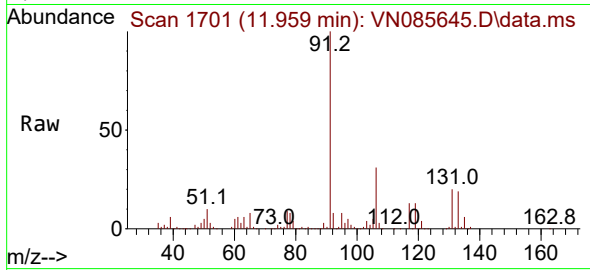
119 66.4 33.1 99.5





#67
Ethyl Benzene
Concen: 59.349 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

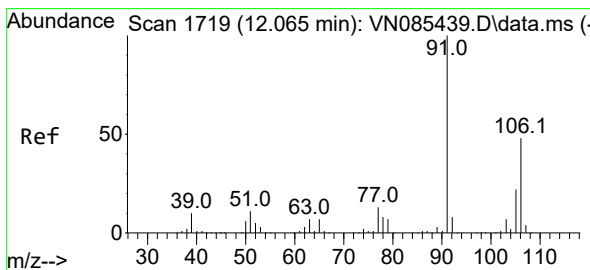
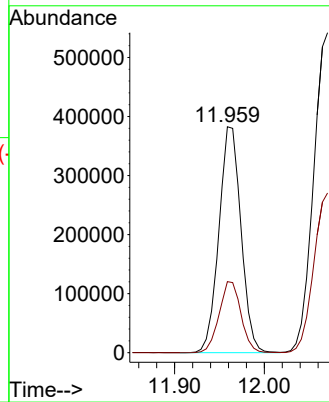
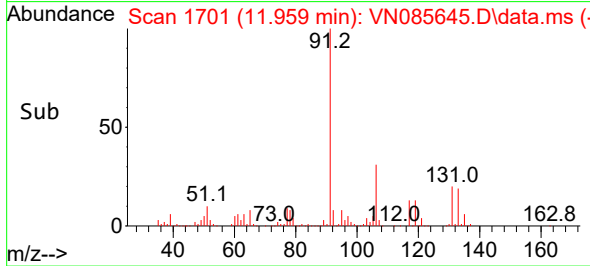
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 654450
Ion Ratio Lower Upper
91 100
106 31.5 23.8 35.8

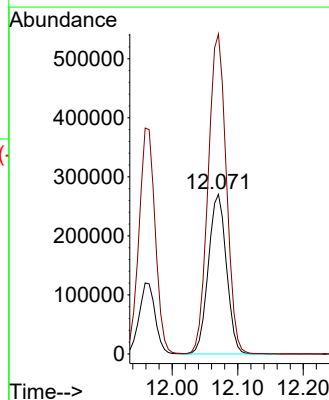
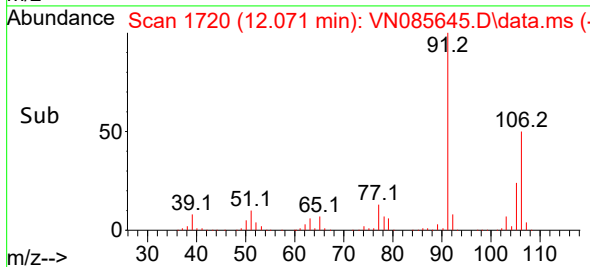
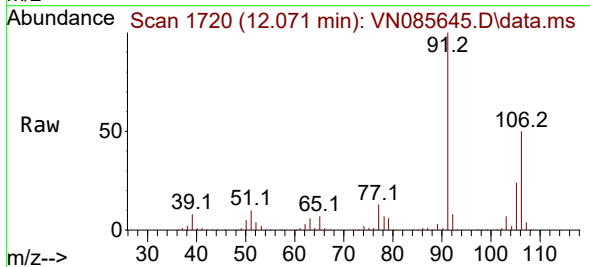
Manual Integrations
APPROVED

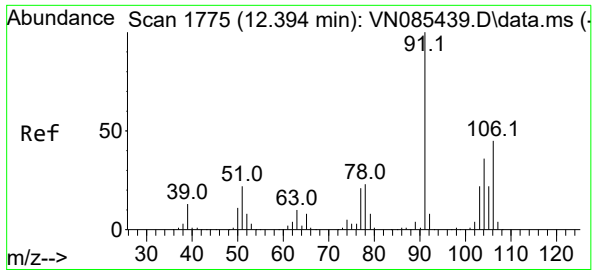
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#68
m/p-Xylenes
Concen: 127.234 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:106 Resp: 518534
Ion Ratio Lower Upper
106 100
91 201.3 167.7 251.5





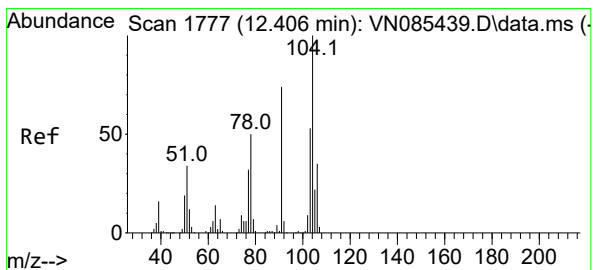
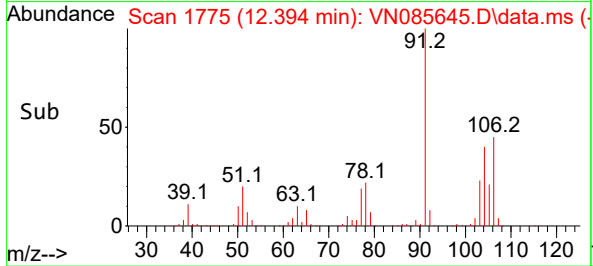
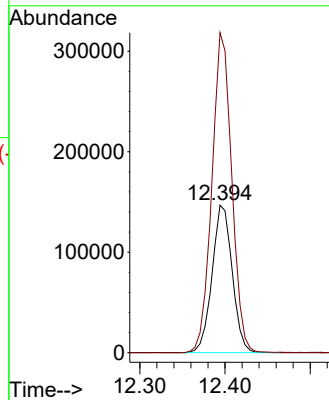
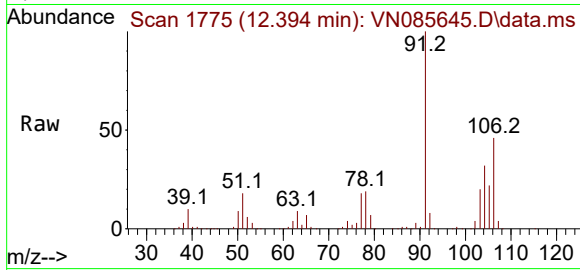
#69
o-Xylene
Concen: 61.940 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 24124
Ion Ratio Lower Upper
106 100
91 214.2 110.4 331.2

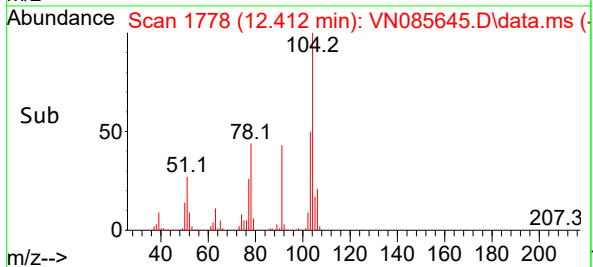
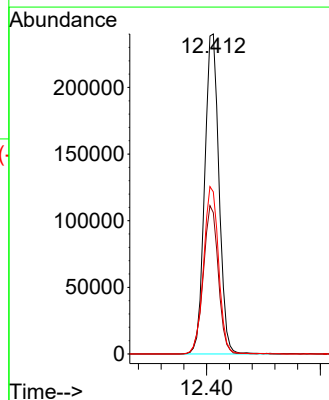
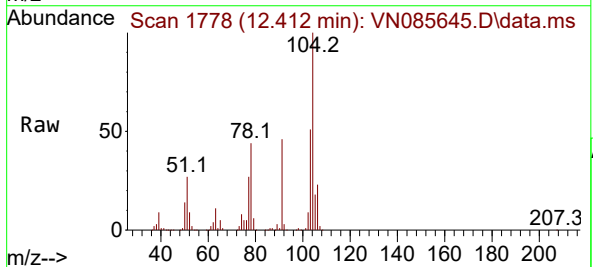
Manual Integrations
APPROVED

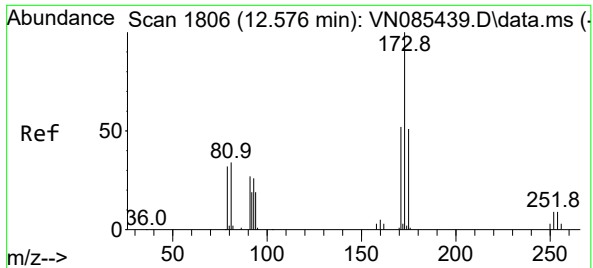
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#70
Styrene
Concen: 65.022 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

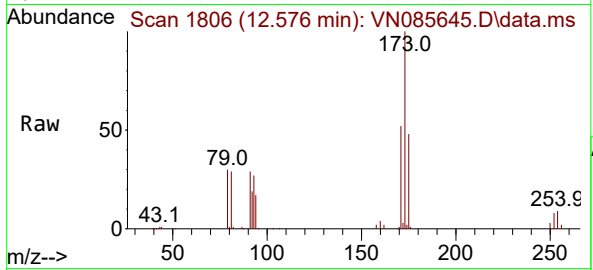
Tgt Ion:104 Resp: 419116
Ion Ratio Lower Upper
104 100
78 48.4 42.5 63.7
103 54.9 43.8 65.8





#71
Bromoform
Concen: 56.133 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

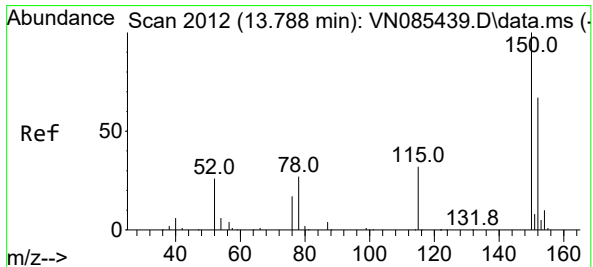
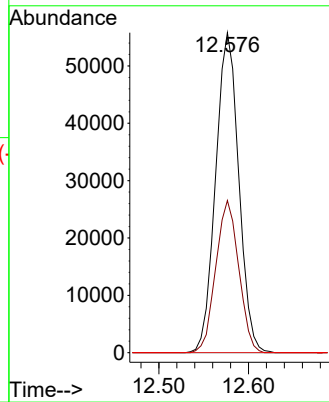
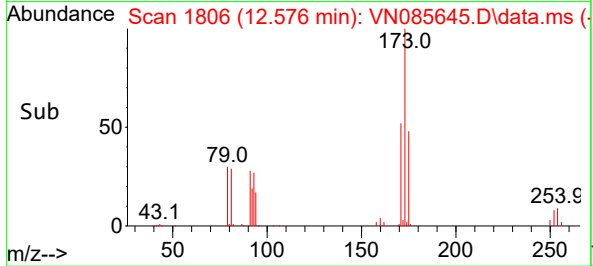
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



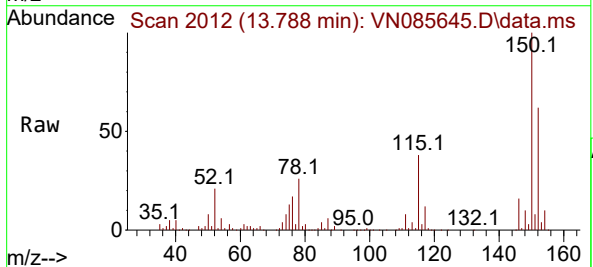
Tgt Ion:173 Resp: 9980
Ion Ratio Lower Upper
173 100
175 47.2 24.4 73.2
254 0.0 0.0 0.0

Manual Integrations
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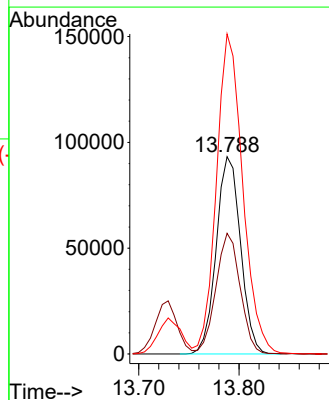
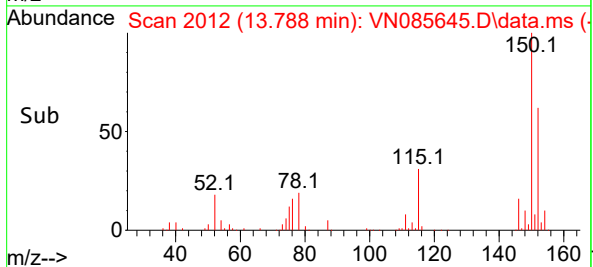
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

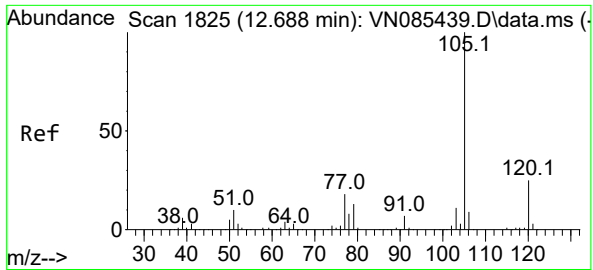


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



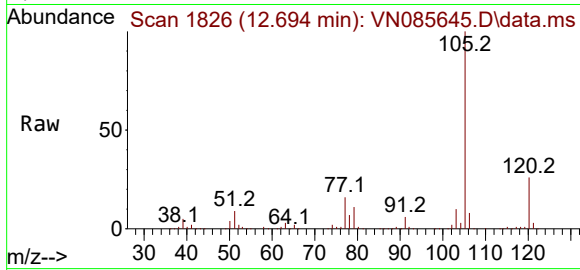
Tgt Ion:152 Resp: 157058
Ion Ratio Lower Upper
152 100
115 61.2 31.1 93.3
150 175.6 0.0 343.6





#73
Isopropylbenzene
Concen: 57.186 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

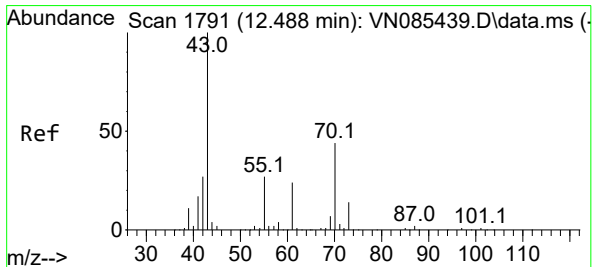
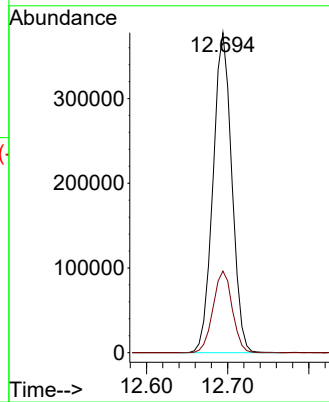
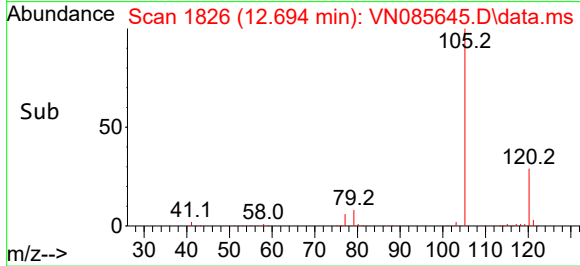
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



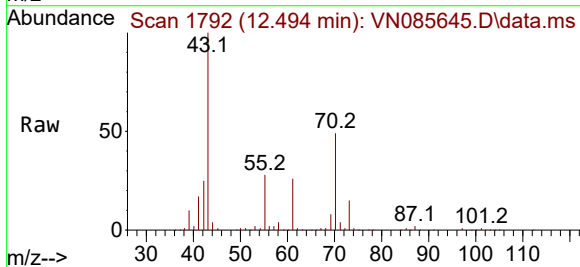
Tgt Ion:105 Resp: 60617
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.3

Manual Integrations
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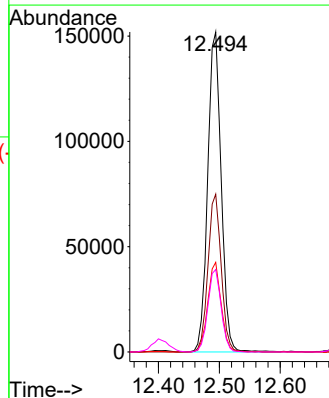
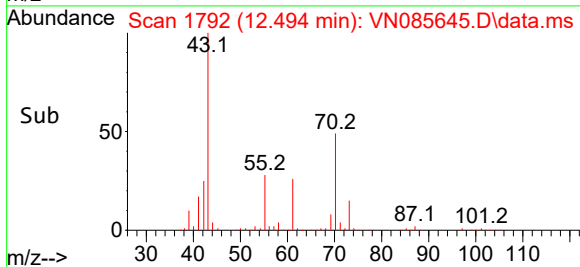
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

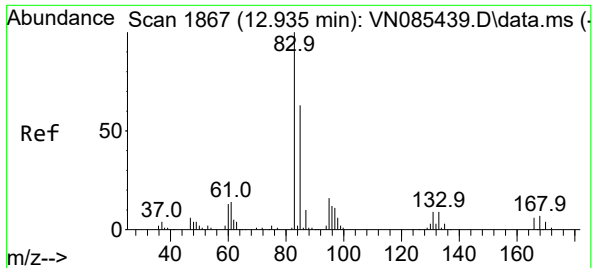


#74
N-ethyl acetate
Concen: 49.123 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



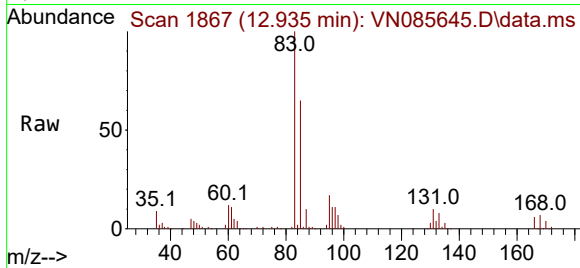
Tgt Ion: 43 Resp: 234045
Ion Ratio Lower Upper
43 100
70 48.2 34.0 51.0
55 27.8 21.4 32.2
61 25.4 19.0 28.4





#75
 1,1,2,2-Tetrachloroethane
 Concen: 50.322 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

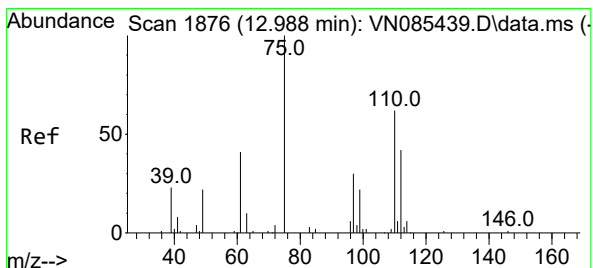
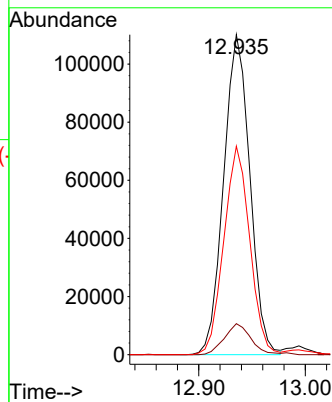
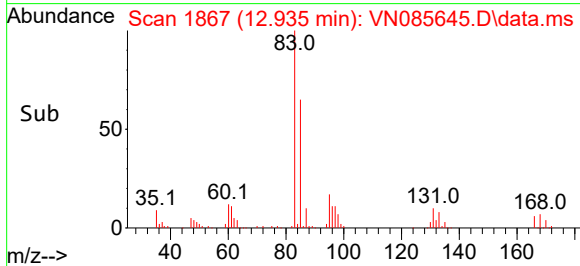
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050



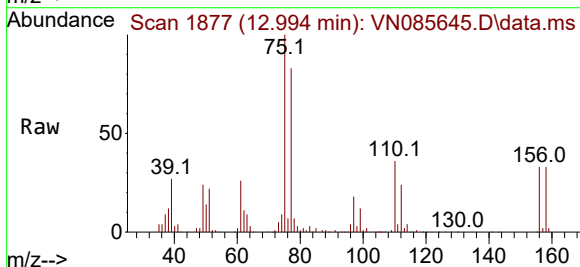
Tgt Ion: 83 Resp: 188424
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.8 14.4
 85 64.2 32.2 96.6

Manual Integrations
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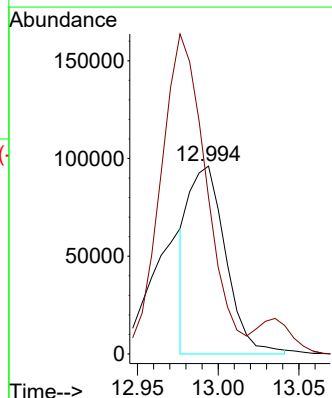
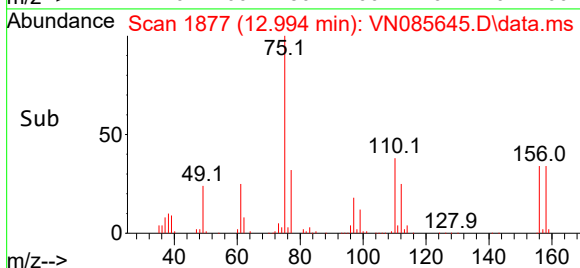
Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

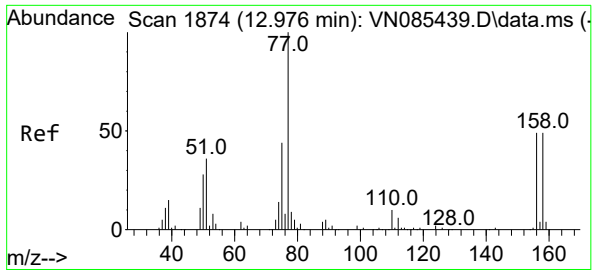


#76
 1,2,3-Trichloropropane
 Concen: 48.165 ug/l m
 RT: 12.994 min Scan# 1877
 Delta R.T. 0.006 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05



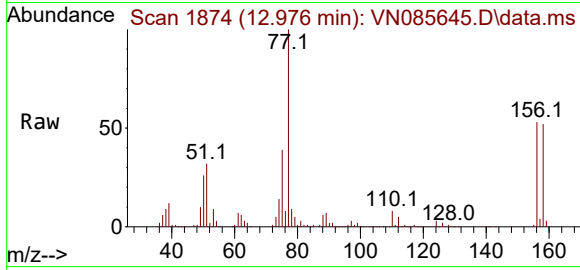
Tgt Ion: 75 Resp: 153753
 Ion Ratio Lower Upper
 75 100
 77 209.9 109.7 329.2





#77
Bromobenzene
Concen: 53.497 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

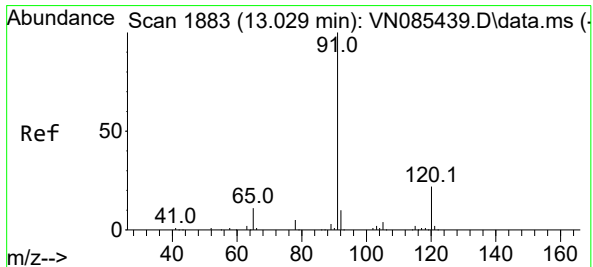
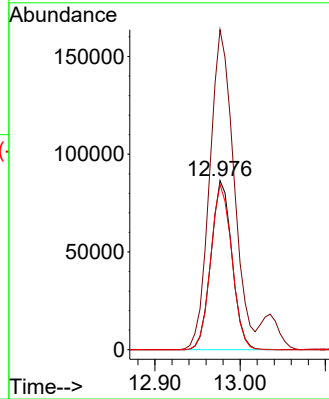
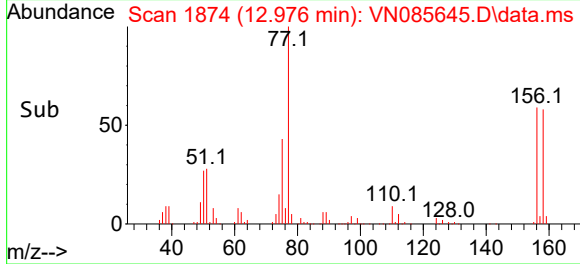
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 14815
Ion Ratio Lower Upper
156 100
77 217.8 114.1 342.4
158 98.2 48.9 146.8

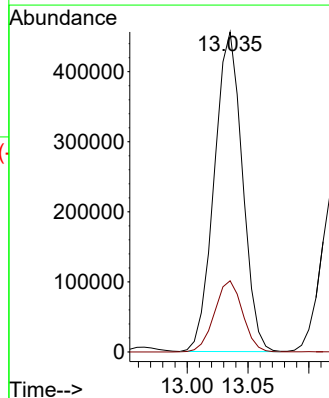
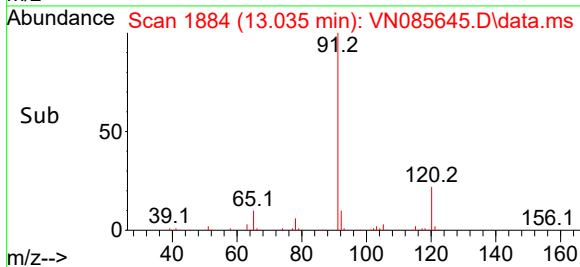
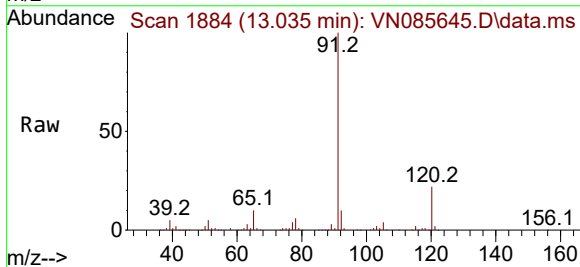
Manual Integrations
APPROVED

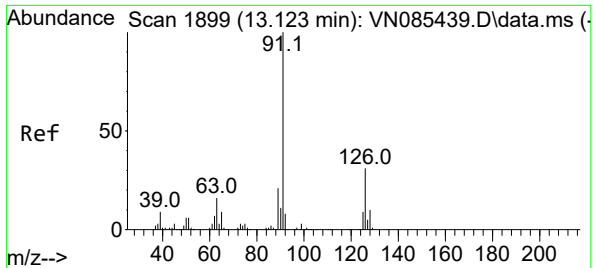
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#78
n-propylbenzene
Concen: 58.330 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 91 Resp: 731968
Ion Ratio Lower Upper
91 100
120 22.3 10.9 32.6





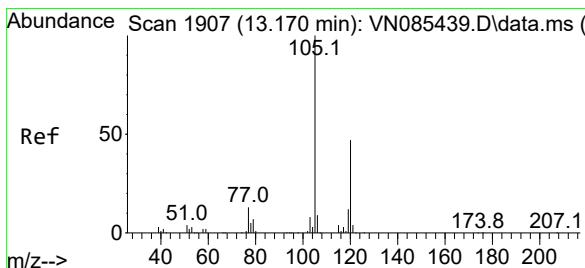
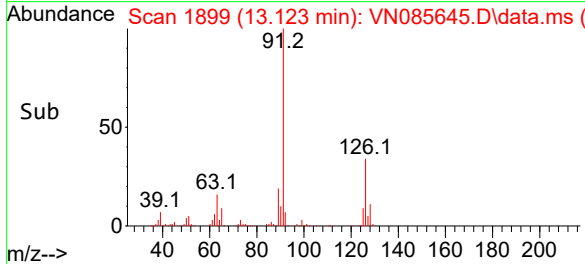
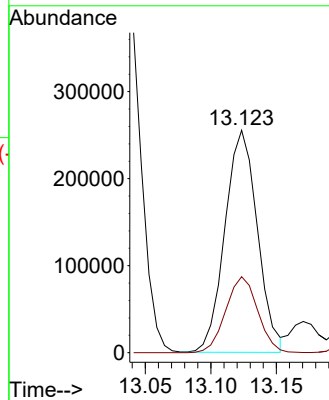
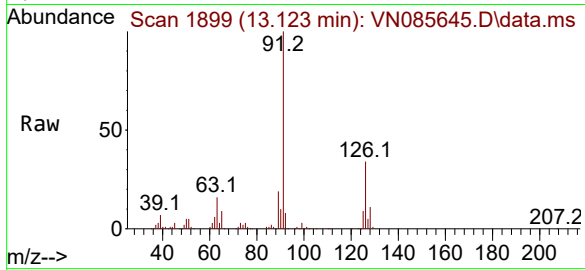
#79
2-Chlorotoluene
Concen: 54.157 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 439835
Ion Ratio Lower Upper
91 100
126 33.7 15.7 47.1

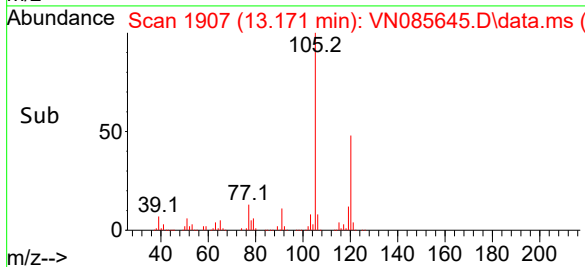
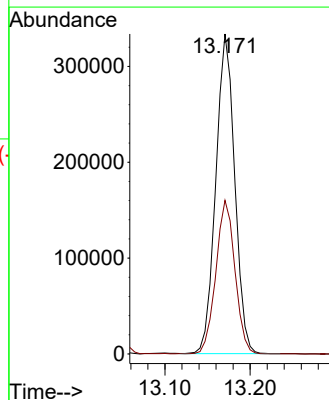
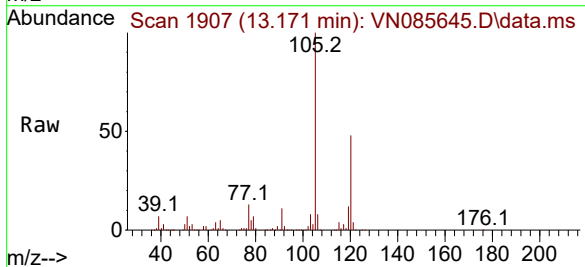
Manual Integrations
APPROVED

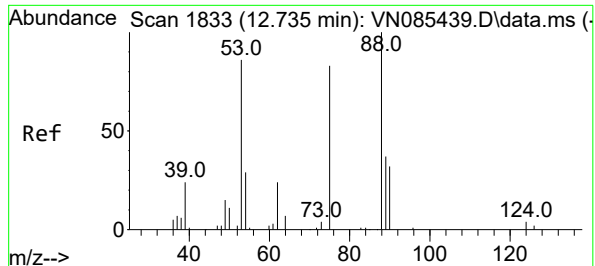
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#80
1,3,5-Trimethylbenzene
Concen: 58.774 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:105 Resp: 514612
Ion Ratio Lower Upper
105 100
120 48.4 23.9 71.7





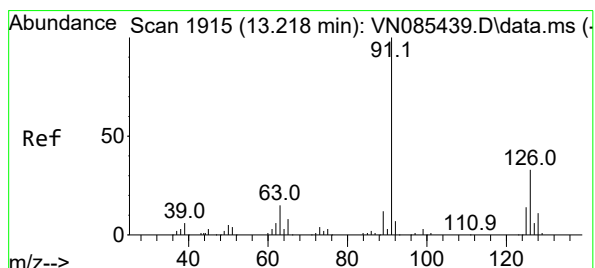
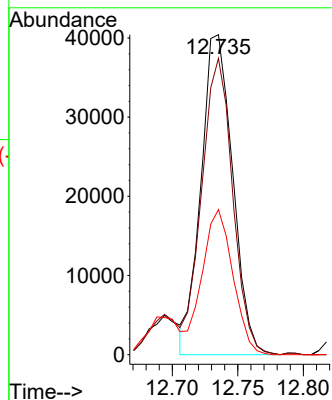
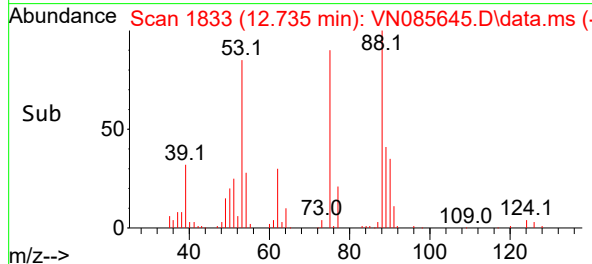
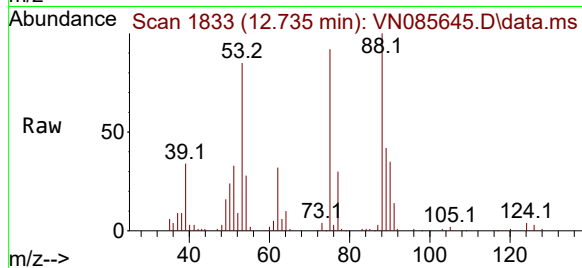
#81
trans-1,4-Dichloro-2-butene
Concen: 57.659 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 6803
Ion Ratio Lower Upper
75 100
53 90.8 95.6 143.4
89 44.8 37.0 55.6

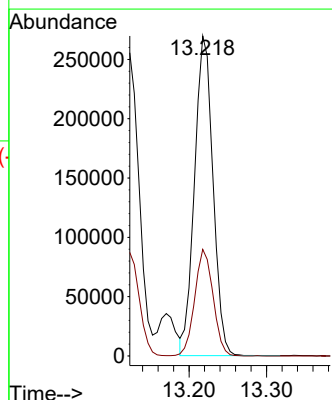
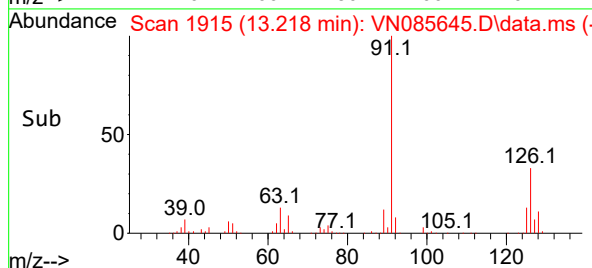
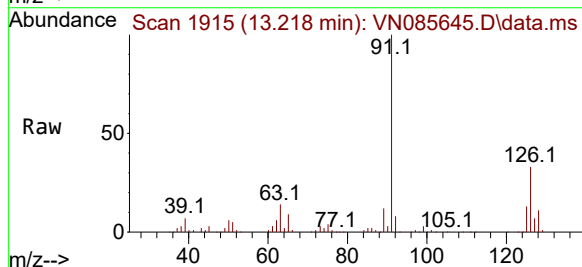
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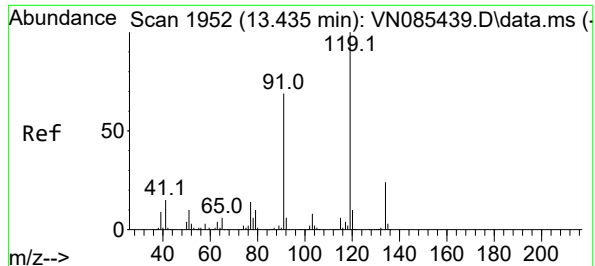
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#82
4-Chlorotoluene
Concen: 55.070 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 91 Resp: 445323
Ion Ratio Lower Upper
91 100
126 33.2 15.9 47.7





#83

tert-Butylbenzene

Concen: 55.960 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 411462

Ion Ratio Lower Upper

119 100

91 67.4 35.1 105.3

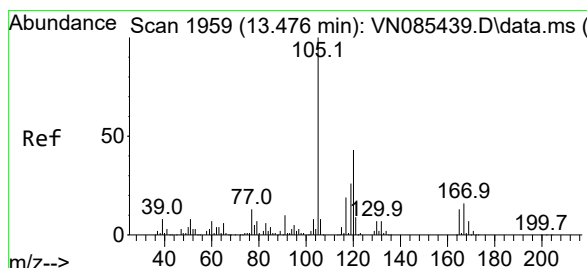
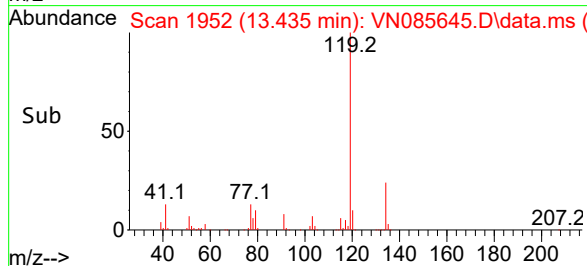
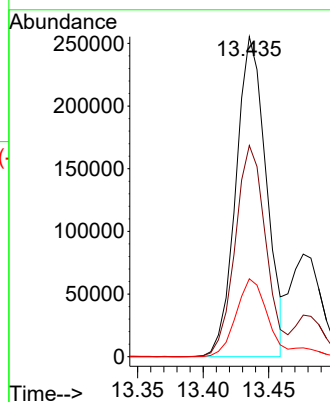
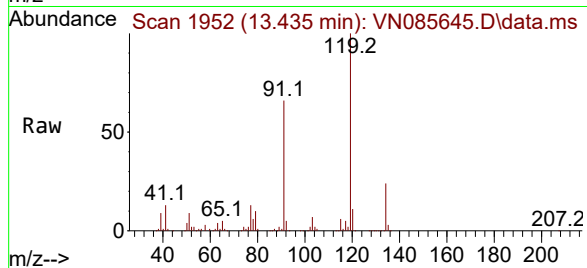
134 27.2 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#84

1,2,4-Trimethylbenzene

Concen: 59.518 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085645.D

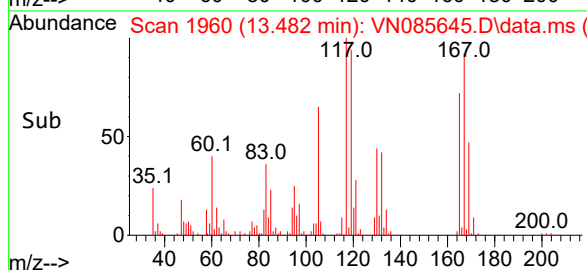
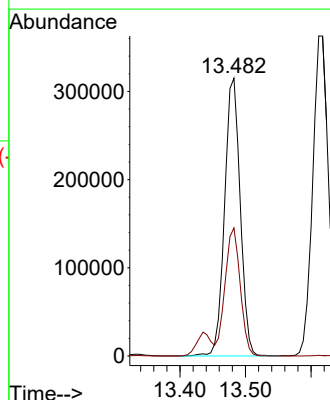
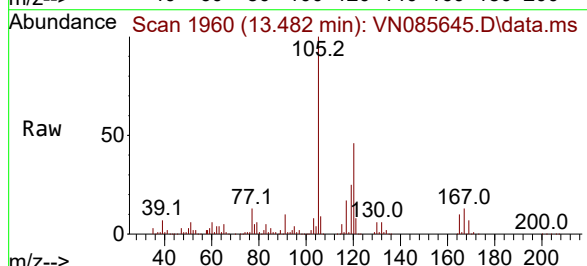
Acq: 04 Feb 2025 11:05

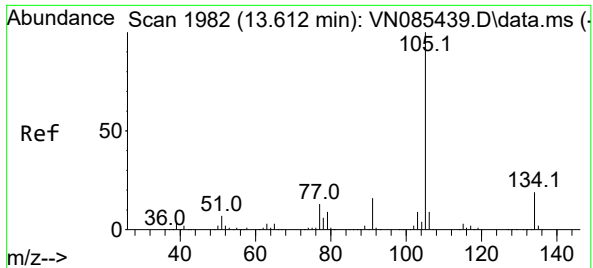
Tgt Ion:105 Resp: 519388

Ion Ratio Lower Upper

105 100

120 44.8 21.6 65.0





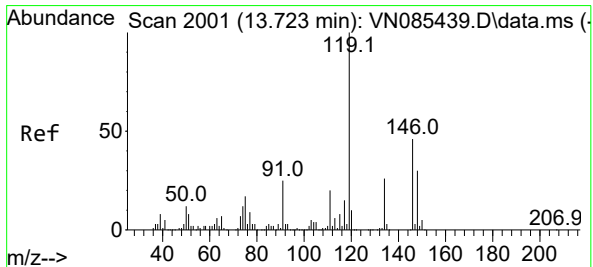
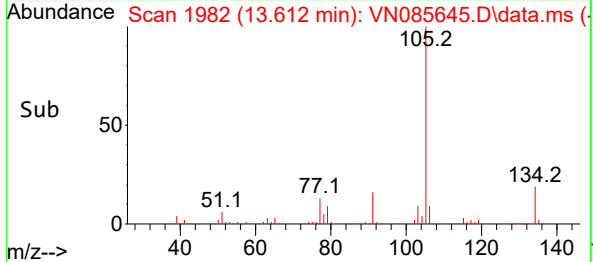
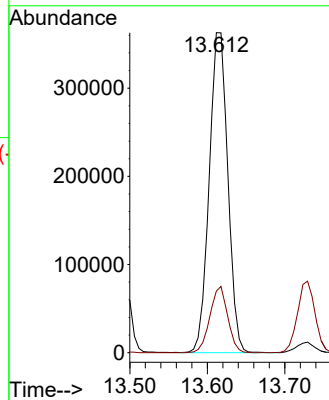
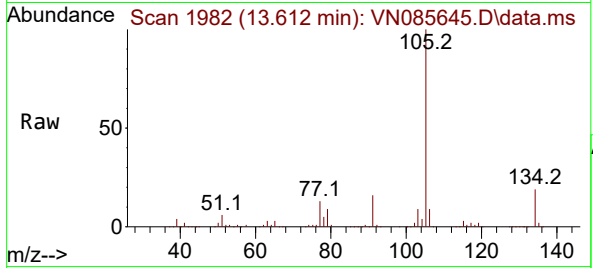
#85
sec-Butylbenzene
Concen: 59.408 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 60541
Ion Ratio Lower Upper
105 100
134 19.7 9.7 28.9

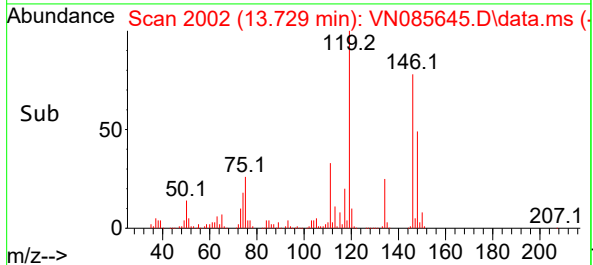
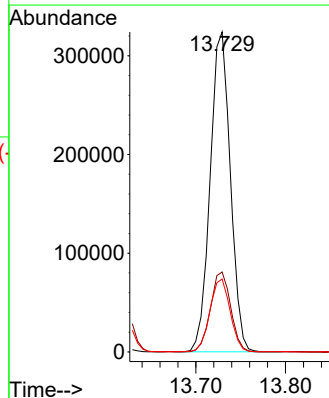
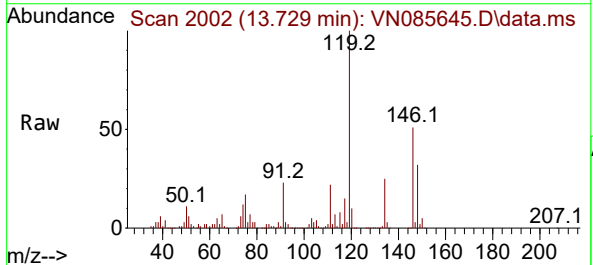
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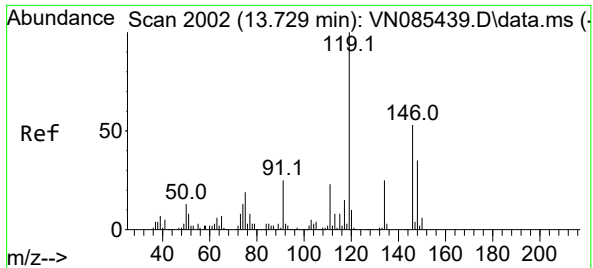
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#86
p-Isopropyltoluene
Concen: 54.534 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:119 Resp: 506039
Ion Ratio Lower Upper
119 100
134 25.2 12.7 38.0
91 22.8 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 54.455 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 27773

Ion Ratio Lower Upper

146 100

111 42.4 21.4 64.3

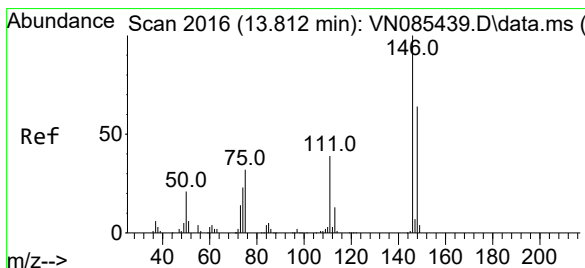
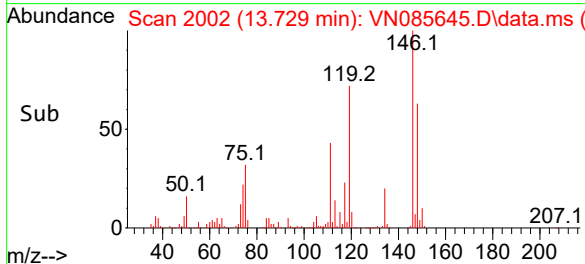
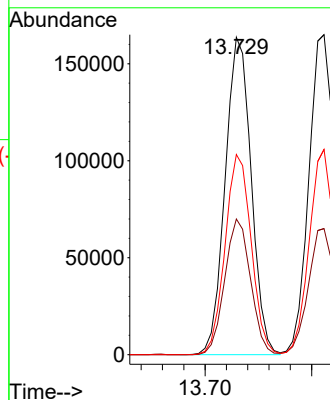
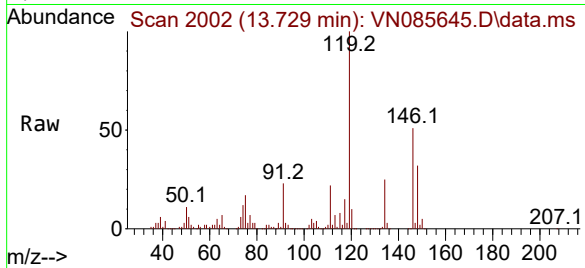
148 63.4 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#88

1,4-Dichlorobenzene

Concen: 52.768 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

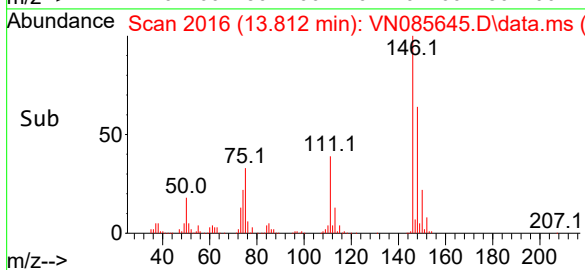
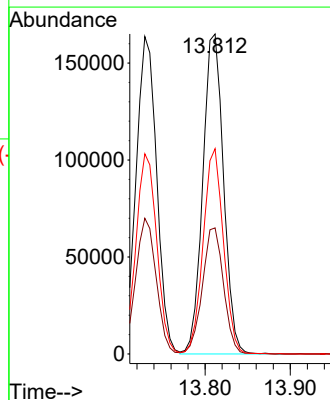
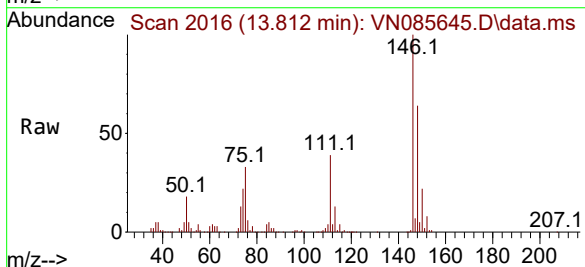
Tgt Ion:146 Resp: 278955

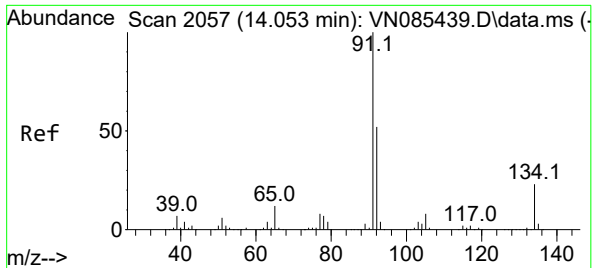
Ion Ratio Lower Upper

146 100

111 40.4 21.3 63.7

148 63.0 32.4 97.0





#89

n-Butylbenzene

Concen: 58.781 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 42974

Ion Ratio Lower Upper

91 100

92 52.0 25.8 77.3

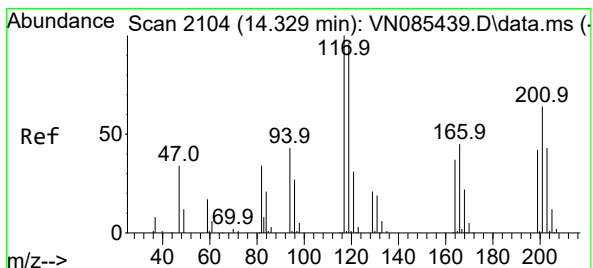
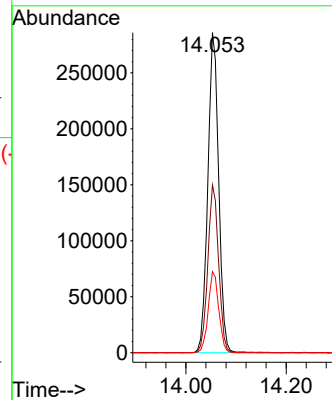
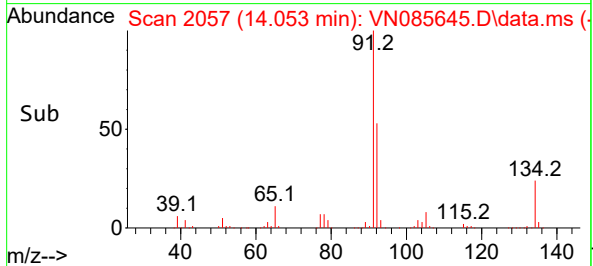
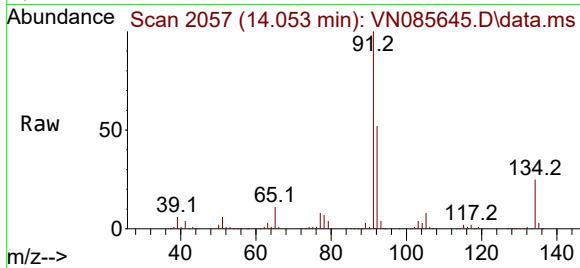
134 24.6 11.7 35.1

Manual Integrations

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Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#90

Hexachloroethane

Concen: 50.887 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085645.D

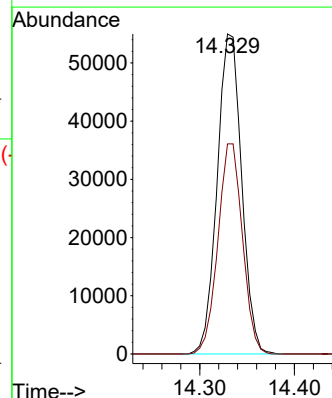
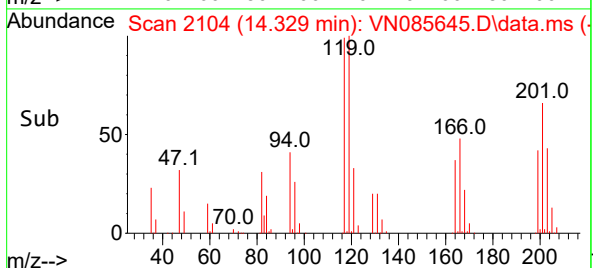
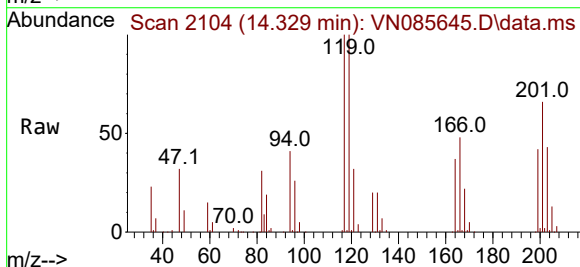
Acq: 04 Feb 2025 11:05

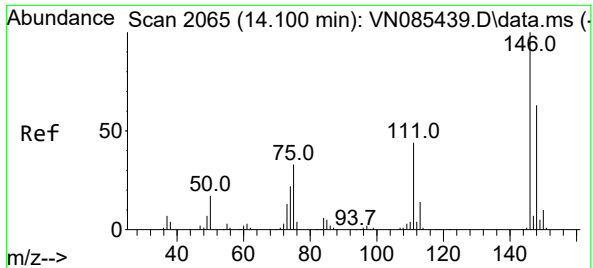
Tgt Ion:117 Resp: 98723

Ion Ratio Lower Upper

117 100

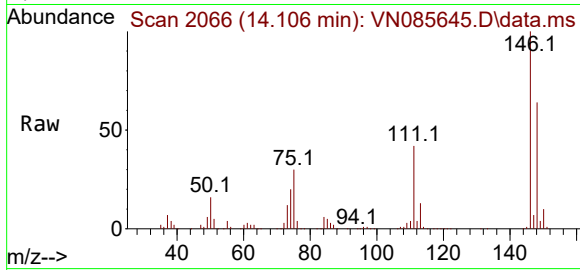
201 65.8 33.7 101.0





#91
1,2-Dichlorobenzene
Concen: 52.333 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

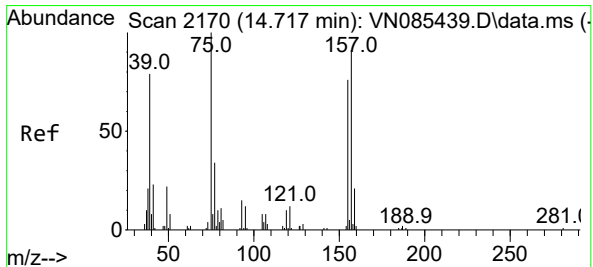
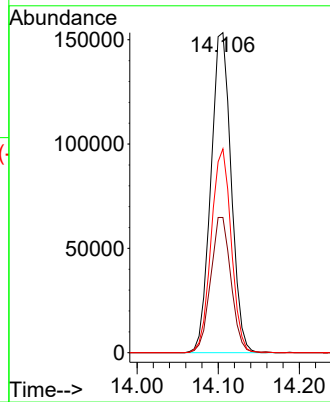
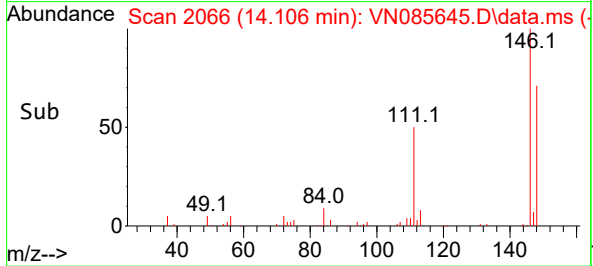
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 266234
Ion Ratio Lower Upper
146 100
111 42.2 21.7 65.1
148 62.9 31.4 94.2

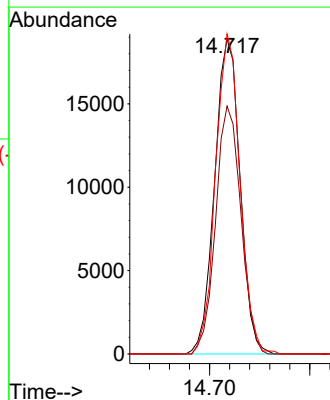
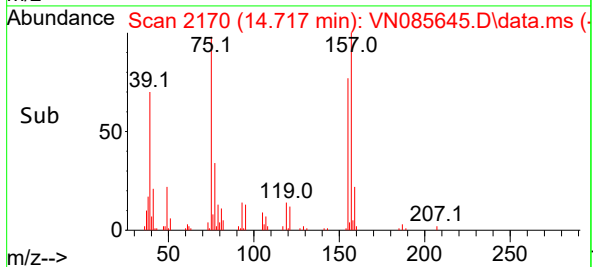
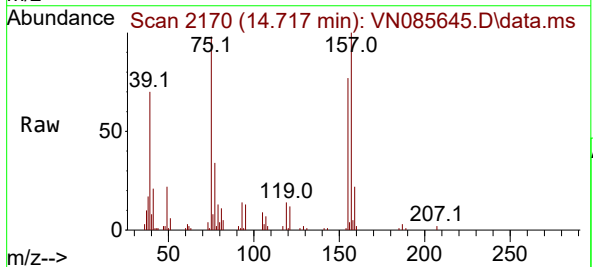
Manual Integrations
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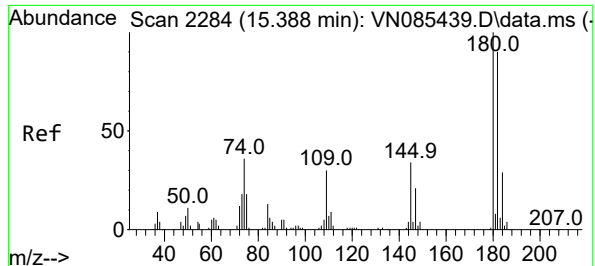
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.620 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 75 Resp: 33244
Ion Ratio Lower Upper
75 100
155 78.3 36.4 109.2
157 97.5 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 52.709 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 124629

Ion Ratio Lower Upper

180 100

182 95.6 46.8 140.3

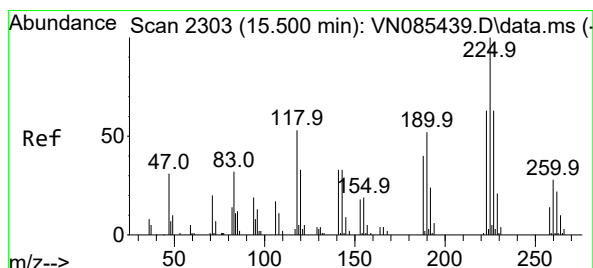
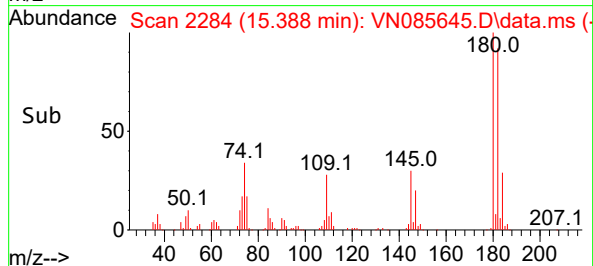
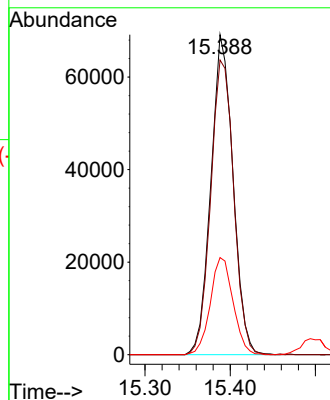
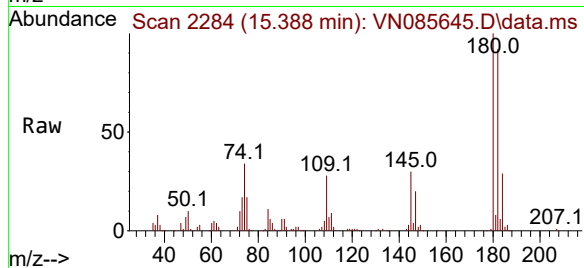
145 31.2 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#94

Hexachlorobutadiene

Concen: 48.466 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

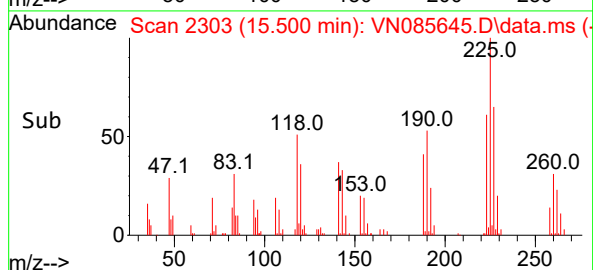
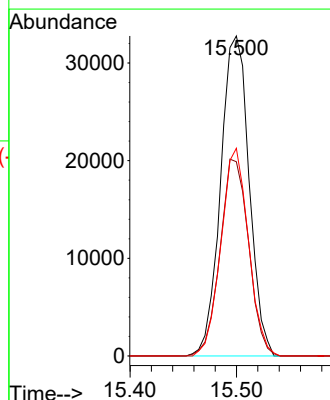
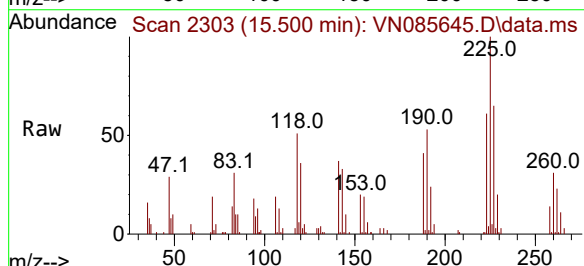
Tgt Ion:225 Resp: 60840

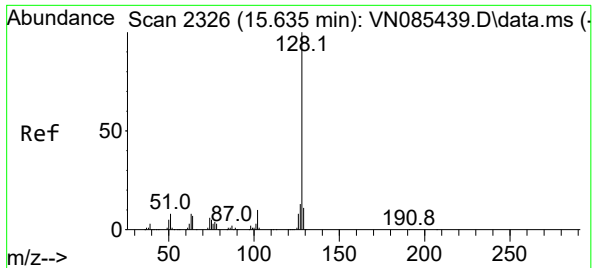
Ion Ratio Lower Upper

225 100

223 61.7 30.7 92.1

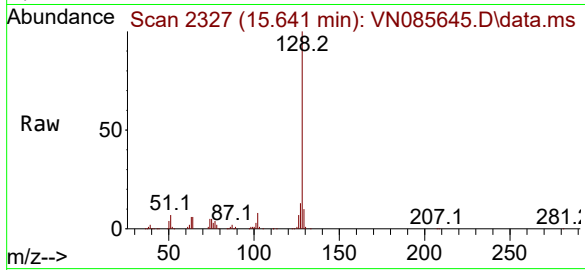
227 62.6 30.9 92.5





#95
Naphthalene
Concen: 55.897 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

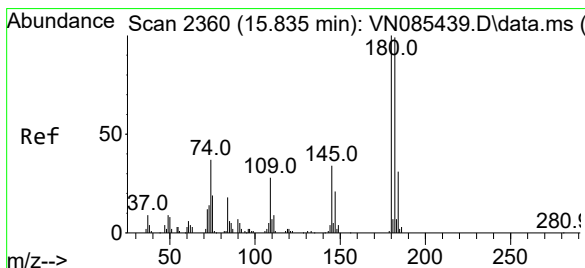
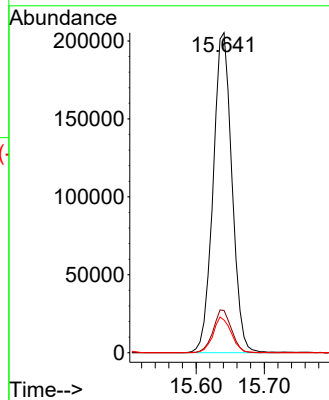
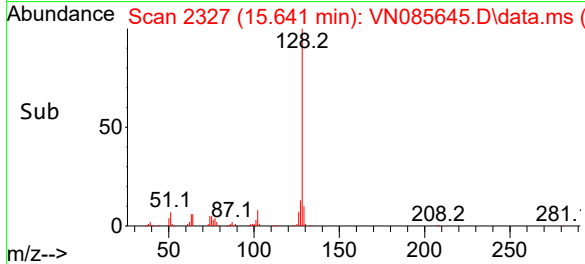
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



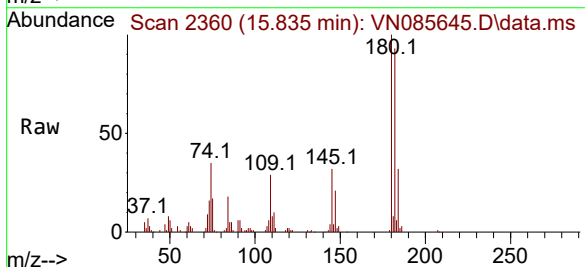
Tgt Ion:128 Resp: 394392
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 10.7 8.8 13.2

Manual Integrations
APPROVED

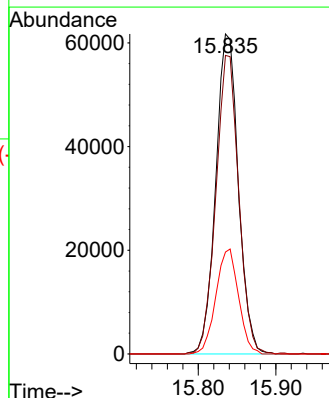
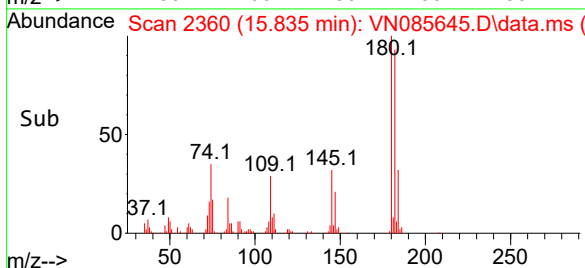
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.330 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05



Tgt Ion:180 Resp: 125197
Ion Ratio Lower Upper
180 100
182 94.0 47.4 142.2
145 32.8 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.677	0.841	-24.2	135	0.00
3 P	Chloromethane	0.733	0.756	-3.1	112	0.00
4 C	Vinyl Chloride	0.737	0.924	-25.4#	135	0.00
5 T	Bromomethane	0.445	0.578	-29.9#	139	-0.01
6 T	Chloroethane	0.467	0.583	-24.8	138	0.00
7 T	Trichlorofluoromethane	1.069	1.135	-6.2	115	0.00
8 T	Diethyl Ether	0.369	0.377	-2.2	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.602	0.678	-12.6	126	0.00
10 T	Methyl Iodide	0.690	0.852	-23.5	119	0.00
11 T	Tert butyl alcohol	0.092	0.090	2.2	98	0.00
12 CM	1,1-Dichloroethene	0.537	0.620	-15.5#	117	0.00
13 T	Acrolein	0.126	0.085	32.5#	61	0.00
14 T	Allyl chloride	0.871	0.783	10.1	93	0.00
15 T	Acrylonitrile	0.294	0.303	-3.1	102	0.00
16 T	Acetone	0.261	0.236	9.6	94	0.00
17 T	Carbon Disulfide	1.652	1.884	-14.0	128	0.00
18 T	Methyl Acetate	0.793	0.717	9.6	91	0.00
19 T	Methyl tert-butyl Ether	1.742	1.918	-10.1	103	0.00
20 T	Methylene Chloride	0.646	0.706	-9.3	113	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.660	-15.2	120	0.00
22 T	Diisopropyl ether	1.933	1.902	1.6	94	0.00
23 T	Vinyl Acetate	1.353	1.405	-3.8	95	0.00
24 P	1,1-Dichloroethane	1.178	1.225	-4.0	105	0.00
25 T	2-Butanone	0.384	0.371	3.4	96	0.00
26 T	2,2-Dichloropropane	0.953	1.097	-15.1	118	0.00
27 T	cis-1,2-Dichloroethene	0.675	0.773	-14.5	114	0.00
28 T	Bromochloromethane	0.548	0.476	13.1	88	0.00
29 T	Tetrahydrofuran	0.243	0.249	-2.5	96	0.00
30 C	Chloroform	1.218	1.257	-3.2#	108	0.00
31 T	Cyclohexane	1.024	1.018	0.6	116	0.00
32 T	1,1,1-Trichloroethane	1.068	1.122	-5.1	111	0.00
33 S	1,2-Dichloroethane-d4	0.807	0.771	4.5	93	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.347	0.369	-6.3	105	0.00
36 T	1,1-Dichloropropene	0.487	0.533	-9.4	117	0.00
37 T	Ethyl Acetate	0.491	0.461	6.1	96	0.00
38 T	Carbon Tetrachloride	0.557	0.585	-5.0	112	0.00
39 T	Methylcyclohexane	0.457	0.567	-24.1	125	0.00
40 TM	Benzene	1.463	1.643	-12.3	115	0.00
41 T	Methacrylonitrile	0.256	0.236	7.8	89	0.00
42 TM	1,2-Dichloroethane	0.551	0.538	2.4	100	0.00
43 T	Isopropyl Acetate	0.787	0.787	0.0	98	0.00
44 TM	Trichloroethene	0.341	0.382	-12.0	120	0.00
45 C	1,2-Dichloropropane	0.374	0.397	-6.1#	109	0.00
46 T	Dibromomethane	0.270	0.283	-4.8	108	0.00
47 T	Bromodichloromethane	0.549	0.587	-6.9	107	0.00
48 T	Methyl methacrylate	0.354	0.355	-0.3	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.007	-16.7	109	0.00
50 S	Toluene-d8	1.232	1.373	-11.4	110	0.00
51 T	4-Methyl-2-Pentanone	0.457	0.464	-1.5	96	0.00
52 CM	Toluene	0.848	1.020	-20.3#	119	0.00
53 T	t-1,3-Dichloropropene	0.519	0.592	-14.1	109	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.641	-15.7	111	0.00
55 T	1,1,2-Trichloroethane	0.335	0.375	-11.9	112	0.00
56 T	Ethyl methacrylate	0.469	0.577	-23.0	108	0.00
57 T	1,3-Dichloropropane	0.583	0.654	-12.2	110	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.194	8.9	82	0.00
59 T	2-Hexanone	0.321	0.336	-4.7	96	0.00
60 T	Dibromochloromethane	0.405	0.441	-8.9	108	0.00
61 T	1,2-Dibromoethane	0.334	0.375	-12.3	114	0.00
62 S	4-Bromofluorobenzene	0.422	0.472	-11.8	107	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64 T	Tetrachloroethene	0.341	0.397	-16.4	128	0.00
65 PM	Chlorobenzene	1.095	1.230	-12.3	119	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.433	-7.7	115	0.00
67 C	Ethyl Benzene	1.784	2.118	-18.7#	118	0.00
68 T	m/p-Xylenes	0.659	0.839	-27.3#	123	0.00
69 T	o-Xylene	0.630	0.781	-24.0	119	0.00
70 T	Styrene	1.043	1.356	-30.0#	120	0.00
71 P	Bromoform	0.288	0.323	-12.2	108	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	3.375	3.860	-14.4	120	0.00
74 T	N-amyl acetate	1.517	1.490	1.8	98	0.00
75 P	1,1,2,2-Tetrachloroethane	1.192	1.200	-0.7	112	0.00
76 T	1,2,3-Trichloropropane	1.016	0.979	3.6	117	0.00
77 T	Bromobenzene	0.882	0.943	-6.9	118	0.00
78 T	n-propylbenzene	3.995	4.660	-16.6	120	0.00
79 T	2-Chlorotoluene	2.586	2.800	-8.3	116	0.00
80 T	1,3,5-Trimethylbenzene	2.787	3.277	-17.6	119	0.00
81 T	trans-1,4-Dichloro-2-butene	0.376	0.433	-15.2	119	0.00
82 T	4-Chlorotoluene	2.574	2.835	-10.1	117	0.00
83 T	tert-Butylbenzene	2.341	2.620	-11.9	115	0.00
84 T	1,2,4-Trimethylbenzene	2.778	3.307	-19.0	117	0.00
85 T	sec-Butylbenzene	3.244	3.855	-18.8	121	0.00
86 T	p-Isopropyltoluene	2.631	3.222	-22.5	120	0.00
87 T	1,3-Dichlorobenzene	1.624	1.768	-8.9	121	0.00
88 T	1,4-Dichlorobenzene	1.683	1.776	-5.5	122	0.00
89 T	n-Butylbenzene	2.327	2.736	-17.6	118	0.00
90 T	Hexachloroethane	0.618	0.629	-1.8	117	0.00
91 T	1,2-Dichlorobenzene	1.620	1.695	-4.6	117	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.218	0.212	2.8	102	0.00
93 T	1,2,4-Trichlorobenzene	0.753	0.794	-5.4	109	0.00
94 T	Hexachlorobutadiene	0.400	0.387	3.3	113	0.00
95 T	Naphthalene	2.246	2.511	-11.8	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	0.762	0.797	-4.6	109	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	62.124	-24.2	135	0.00
3 P	Chloromethane	50.000	51.538	-3.1	112	0.00
4 C	Vinyl Chloride	50.000	62.678	-25.4#	135	0.00
5 T	Bromomethane	50.000	64.931	-29.9#	139	-0.01
6 T	Chloroethane	50.000	62.391	-24.8	138	0.00
7 T	Trichlorofluoromethane	50.000	53.087	-6.2	115	0.00
8 T	Diethyl Ether	50.000	51.037	-2.1	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	56.291	-12.6	126	0.00
10 T	Methyl Iodide	50.000	61.814	-23.6	119	0.00
11 T	Tert butyl alcohol	250.000	244.210	2.3	98	0.00
12 CM	1,1-Dichloroethene	50.000	57.812	-15.6#	117	0.00
13 T	Acrolein	250.000	168.697	32.5#	61	0.00
14 T	Allyl chloride	50.000	44.944	10.1	93	0.00
15 T	Acrylonitrile	250.000	257.863	-3.1	102	0.00
16 T	Acetone	250.000	225.997	9.6	94	0.00
17 T	Carbon Disulfide	50.000	57.001	-14.0	128	0.00
18 T	Methyl Acetate	50.000	45.225	9.5	91	0.00
19 T	Methyl tert-butyl Ether	50.000	55.039	-10.1	103	0.00
20 T	Methylene Chloride	50.000	54.697	-9.4	113	0.00
21 T	trans-1,2-Dichloroethene	50.000	57.502	-15.0	120	0.00
22 T	Diisopropyl ether	50.000	49.208	1.6	94	0.00
23 T	Vinyl Acetate	250.000	259.616	-3.8	95	0.00
24 P	1,1-Dichloroethane	50.000	51.962	-3.9	105	0.00
25 T	2-Butanone	250.000	241.685	3.3	96	0.00
26 T	2,2-Dichloropropane	50.000	57.562	-15.1	118	0.00
27 T	cis-1,2-Dichloroethene	50.000	57.208	-14.4	114	0.00
28 T	Bromochloromethane	50.000	43.426	13.1	88	0.00
29 T	Tetrahydrofuran	250.000	255.923	-2.4	96	0.00
30 C	Chloroform	50.000	51.611	-3.2#	108	0.00
31 T	Cyclohexane	50.000	49.690	0.6	116	0.00
32 T	1,1,1-Trichloroethane	50.000	52.509	-5.0	111	0.00
33 S	1,2-Dichloroethane-d4	50.000	47.780	4.4	93	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	53.153	-6.3	105	0.00
36 T	1,1-Dichloropropene	50.000	54.731	-9.5	117	0.00
37 T	Ethyl Acetate	50.000	46.933	6.1	96	0.00
38 T	Carbon Tetrachloride	50.000	52.524	-5.0	112	0.00
39 T	Methylcyclohexane	50.000	62.021	-24.0	125	0.00
40 TM	Benzene	50.000	56.166	-12.3	115	0.00
41 T	Methacrylonitrile	50.000	46.204	7.6	89	0.00
42 TM	1,2-Dichloroethane	50.000	48.850	2.3	100	0.00
43 T	Isopropyl Acetate	50.000	49.962	0.1	98	0.00
44 TM	Trichloroethene	50.000	56.068	-12.1	120	0.00
45 C	1,2-Dichloropropane	50.000	53.137	-6.3#	109	0.00
46 T	Dibromomethane	50.000	52.419	-4.8	108	0.00
47 T	Bromodichloromethane	50.000	53.411	-6.8	107	0.00
48 T	Methyl methacrylate	50.000	50.045	-0.1	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1142.294	-14.2	109	0.00
50 S	Toluene-d8	50.000	55.713	-11.4	110	0.00
51 T	4-Methyl-2-Pentanone	250.000	253.917	-1.6	96	0.00
52 CM	Toluene	50.000	60.150	-20.3#	119	0.00
53 T	t-1,3-Dichloropropene	50.000	57.048	-14.1	109	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.810	-15.6	111	0.00
55 T	1,1,2-Trichloroethane	50.000	55.842	-11.7	112	0.00
56 T	Ethyl methacrylate	50.000	50.997	-2.0	108	0.00
57 T	1,3-Dichloropropane	50.000	56.030	-12.1	110	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	228.313	8.7	82	0.00
59 T	2-Hexanone	250.000	261.399	-4.6	96	0.00
60 T	Dibromochloromethane	50.000	54.508	-9.0	108	0.00
61 T	1,2-Dibromoethane	50.000	56.226	-12.5	114	0.00
62 S	4-Bromofluorobenzene	50.000	56.013	-12.0	107	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64 T	Tetrachloroethene	50.000	58.273	-16.5	128	0.00
65 PM	Chlorobenzene	50.000	56.165	-12.3	119	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.847	-7.7	115	0.00
67 C	Ethyl Benzene	50.000	59.349	-18.7#	118	0.00
68 T	m/p-Xylenes	100.000	127.234	-27.2#	123	0.00
69 T	o-Xylene	50.000	61.940	-23.9	119	0.00
70 T	Styrene	50.000	65.022	-30.0#	120	0.00
71 P	Bromoform	50.000	56.133	-12.3	108	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	57.186	-14.4	120	0.00
74 T	N-amyl acetate	50.000	49.123	1.8	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.322	-0.6	112	0.00
76 T	1,2,3-Trichloropropane	50.000	48.165	3.7	117	0.00
77 T	Bromobenzene	50.000	53.497	-7.0	118	0.00
78 T	n-propylbenzene	50.000	58.330	-16.7	120	0.00
79 T	2-Chlorotoluene	50.000	54.157	-8.3	116	0.00
80 T	1,3,5-Trimethylbenzene	50.000	58.774	-17.5	119	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	57.659	-15.3	119	0.00
82 T	4-Chlorotoluene	50.000	55.070	-10.1	117	0.00
83 T	tert-Butylbenzene	50.000	55.960	-11.9	115	0.00
84 T	1,2,4-Trimethylbenzene	50.000	59.518	-19.0	117	0.00
85 T	sec-Butylbenzene	50.000	59.408	-18.8	121	0.00
86 T	p-Isopropyltoluene	50.000	54.534	-9.1	120	0.00
87 T	1,3-Dichlorobenzene	50.000	54.455	-8.9	121	0.00
88 T	1,4-Dichlorobenzene	50.000	52.768	-5.5	122	0.00
89 T	n-Butylbenzene	50.000	58.781	-17.6	118	0.00
90 T	Hexachloroethane	50.000	50.887	-1.8	117	0.00
91 T	1,2-Dichlorobenzene	50.000	52.333	-4.7	117	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.620	2.8	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.709	-5.4	109	0.00
94 T	Hexachlorobutadiene	50.000	48.466	3.1	113	0.00
95 T	Naphthalene	50.000	55.897	-11.8	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.330	-4.7	109	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1249 SAS No.: Q1249 SDG No.: Q1249

Instrument ID: MSVOA_N Calibration Date/Time: 02/04/2025 20:15

Lab File ID: VN085664.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.733	0.679	0.1	-7.37	50
Vinyl Chloride	0.737	0.871		18.18	50
Bromomethane	0.445	0.546		22.7	50
Chloroethane	0.467	0.530		13.49	50
Trichlorofluoromethane	1.069	1.084		1.4	50
1,1,2-Trichlorotrifluoroethane	0.602	0.618		2.66	50
1,1-Dichloroethene	0.537	0.608		13.22	50
Acetone	0.261	0.232		-11.11	50
Carbon Disulfide	1.652	1.745		5.63	50
Methyl tert-butyl Ether	1.742	1.939		11.31	50
Methylene Chloride	0.646	0.676		4.64	50
trans-1,2-Dichloroethene	0.573	0.634		10.65	50
1,1-Dichloroethane	1.178	1.164	0.1	-1.19	50
2-Butanone	0.384	0.370		-3.65	50
Carbon Tetrachloride	0.557	0.550		-1.26	50
cis-1,2-Dichloroethene	0.675	0.743		10.07	50
Chloroform	1.218	1.197		-1.72	50
1,1,1-Trichloroethane	1.068	1.070		0.19	50
Methylcyclohexane	0.457	0.483		5.69	50
Benzene	1.463	1.518		3.76	50
1,2-Dichloroethane	0.551	0.492		-10.71	50
Trichloroethene	0.341	0.359		5.28	50
1,2-Dichloropropane	0.374	0.357		-4.55	50
Bromodichloromethane	0.549	0.549		0	50
4-Methyl-2-Pentanone	0.457	0.445		-2.63	50
Toluene	0.848	0.949		11.91	50
t-1,3-Dichloropropene	0.519	0.544		4.82	50
cis-1,3-Dichloropropene	0.554	0.588		6.14	50
1,1,2-Trichloroethane	0.335	0.359		7.16	50
2-Hexanone	0.321	0.328		2.18	50
Dibromochloromethane	0.405	0.425		4.94	50
Tetrachloroethene	0.341	0.349		2.35	50
Chlorobenzene	1.095	1.176	0.3	7.4	50
Ethyl Benzene	1.784	1.996		11.88	50
m/p-Xylenes	0.659	0.779		18.21	50
o-Xylene	0.630	0.741		17.62	50
Styrene	1.043	1.238		18.7	50
Bromoform	0.288	0.313	0.1	8.68	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.: Q1249 SAS No.: Q1249 SDG No.: Q1249

Instrument ID: MSVOA_N Calibration Date/Time: 02/04/2025 20:15

Lab File ID: VN085664.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:56 17:19

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.375	3.891		15.29	50
1,1,2,2-Tetrachloroethane	1.192	1.222	0.3	2.52	50
1,3-Dichlorobenzene	1.624	1.687		3.88	50
1,4-Dichlorobenzene	1.683	1.670		-0.77	50
1,2-Dichlorobenzene	1.620	1.632		0.74	50
1,2-Dichloroethane-d4	0.807	0.680		-15.74	50
Dibromofluoromethane	0.347	0.325		-6.34	50
Toluene-d8	1.232	1.199		-2.68	50
4-Bromofluorobenzene	0.422	0.413		-2.13	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\VN020425\
 Data File : VN085664.D
 Acq On : 04 Feb 2025 20:15
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By : John Carlone 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:11:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	210769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	370923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	331235	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	156927	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	143328	42.127	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.260%		
35) Dibromofluoromethane	8.165	113	120407	46.791	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.580%		
50) Toluene-d8	10.565	98	444909	48.662	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.320%		
62) 4-Bromofluorobenzene	12.847	95	153154	48.969	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.940%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	159575	55.918	ug/l	99
3) Chloromethane	2.359	50	143147	46.328	ug/l	96
4) Vinyl Chloride	2.512	62	183659	59.136	ug/l	96
5) Bromomethane	2.942	94	115182	61.398	ug/l	92
6) Chloroethane	3.112	64	111613	56.685	ug/l	99
7) Trichlorofluoromethane	3.495	101	228431	50.691	ug/l	96
8) Diethyl Ether	3.959	74	81803	52.547	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.365	101	130239	51.313	ug/l	97
10) Methyl Iodide	4.583	142	167001	57.456	ug/l	94
11) Tert butyl alcohol	5.518	59	107381	275.633	ug/l	98
12) 1,1-Dichloroethene	4.336	96	128149	56.652	ug/l	89
13) Acrolein	4.171	56	111909	210.430	ug/l	97
14) Allyl chloride	5.018	41	156910	42.748	ug/l #	94
15) Acrylonitrile	5.718	53	310565	250.976	ug/l	98
16) Acetone	4.424	43	244927	222.804	ug/l	93
17) Carbon Disulfide	4.706	76	367842	52.815	ug/l	99
18) Methyl Acetate	5.018	43	145654	43.573	ug/l #	89
19) Methyl tert-butyl Ether	5.789	73	408643	55.635	ug/l	97
20) Methylene Chloride	5.277	84	142550	52.381	ug/l	90
21) trans-1,2-Dichloroethene	5.789	96	133593	55.262	ug/l	92
22) Diisopropyl ether	6.665	45	378858	46.502	ug/l	97
23) Vinyl Acetate	6.600	43	1426001	250.107	ug/l #	94
24) 1,1-Dichloroethane	6.565	63	245281	49.375	ug/l	98
25) 2-Butanone	7.477	43	390192	241.200	ug/l	92
26) 2,2-Dichloropropane	7.483	77	191354	47.643	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	156691	55.030	ug/l	90
28) Bromochloromethane	7.806	49	85736	37.096	ug/l #	79
29) Tetrahydrofuran	7.835	42	260766	254.248	ug/l #	85
30) Chloroform	7.965	83	252262	49.133	ug/l	96
31) Cyclohexane	8.253	56	194293	44.998	ug/l	88
32) 1,1,1-Trichloroethane	8.165	97	225602	50.093	ug/l	94
36) 1,1-Dichloropropene	8.365	75	182370	50.496	ug/l	98
37) Ethyl Acetate	7.559	43	161385	44.271	ug/l #	95
38) Carbon Tetrachloride	8.359	117	203933	49.323	ug/l	95
39) Methylcyclohexane	9.600	83	179020	52.749	ug/l	90
40) Benzene	8.600	78	563231	51.903	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085664.D
 Acq On : 04 Feb 2025 20:15
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:11:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	83931	44.255	ug/l #	89
42) 1,2-Dichloroethane	8.671	62	182452	44.642	ug/l	95
43) Isopropyl Acetate	8.688	43	286907	49.118	ug/l	96
44) Trichloroethene	9.353	130	133186	52.726	ug/l	98
45) 1,2-Dichloropropane	9.618	63	132383	47.761	ug/l	98
46) Dibromomethane	9.706	93	99179	49.589	ug/l	97
47) Bromodichloromethane	9.888	83	203722	49.998	ug/l	100
48) Methyl methacrylate	9.677	41	126761	48.223	ug/l	88
49) 1,4-Dioxane	9.694	88	47549	1074.167	ug/l #	88
51) 4-Methyl-2-Pentanone	10.441	43	825866	243.652	ug/l	92
52) Toluene	10.629	92	352156	56.008	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	201882	52.428	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	217990	52.999	ug/l	91
55) 1,1,2-Trichloroethane	11.012	97	132983	53.443	ug/l	98
56) Ethyl methacrylate	10.871	69	209546	49.991	ug/l	88
57) 1,3-Dichloropropane	11.159	76	225162	52.040	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	309122	195.762	ug/l	95
59) 2-Hexanone	11.194	43	608742	255.240	ug/l	90
60) Dibromochloromethane	11.359	129	157763	52.516	ug/l	99
61) 1,2-Dibromoethane	11.465	107	134316	54.228	ug/l	98
64) Tetrachloroethene	11.100	164	115593	51.189	ug/l	99
65) Chlorobenzene	11.888	112	389431	53.668	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	134229	50.402	ug/l	99
67) Ethyl Benzene	11.959	91	660992	55.928	ug/l	99
68) m/p-Xylenes	12.070	106	515763	118.079	ug/l	93
69) o-Xylene	12.394	106	245286	58.761	ug/l	95
70) Styrene	12.412	104	410076	59.359	ug/l	96
71) Bromoform	12.576	173	103515	54.323	ug/l #	99
73) Isopropylbenzene	12.694	105	610580	57.650	ug/l	99
74) N-amyl acetate	12.494	43	239434	50.296	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	191782	51.261	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	155602m	48.784	ug/l	
77) Bromobenzene	12.976	156	147291	53.229	ug/l	93
78) n-propylbenzene	13.035	91	692980	55.269	ug/l	98
79) 2-Chlorotoluene	13.123	91	427216	52.647	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	496596	56.764	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	66887	56.737	ug/l	85
82) 4-Chlorotoluene	13.217	91	429304	53.134	ug/l	96
83) tert-Butylbenzene	13.435	119	411529	56.016	ug/l	94
84) 1,2,4-Trimethylbenzene	13.482	105	499092	57.240	ug/l	97
85) sec-Butylbenzene	13.612	105	569818	55.962	ug/l	99
86) p-Isopropyltoluene	13.729	119	475841	51.682	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	264789	51.961	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	262072	49.616	ug/l	97
89) n-Butylbenzene	14.053	91	382769	52.399	ug/l	99
90) Hexachloroethane	14.329	117	93994	48.490	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	256034	50.370	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33940	49.679	ug/l	86
93) 1,2,4-Trichlorobenzene	15.394	180	118657	50.226	ug/l	100
94) Hexachlorobutadiene	15.500	225	52232	41.644	ug/l	98
95) Naphthalene	15.641	128	399927	56.729	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116351	48.673	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085664.D
 Acq On : 04 Feb 2025 20:15
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025

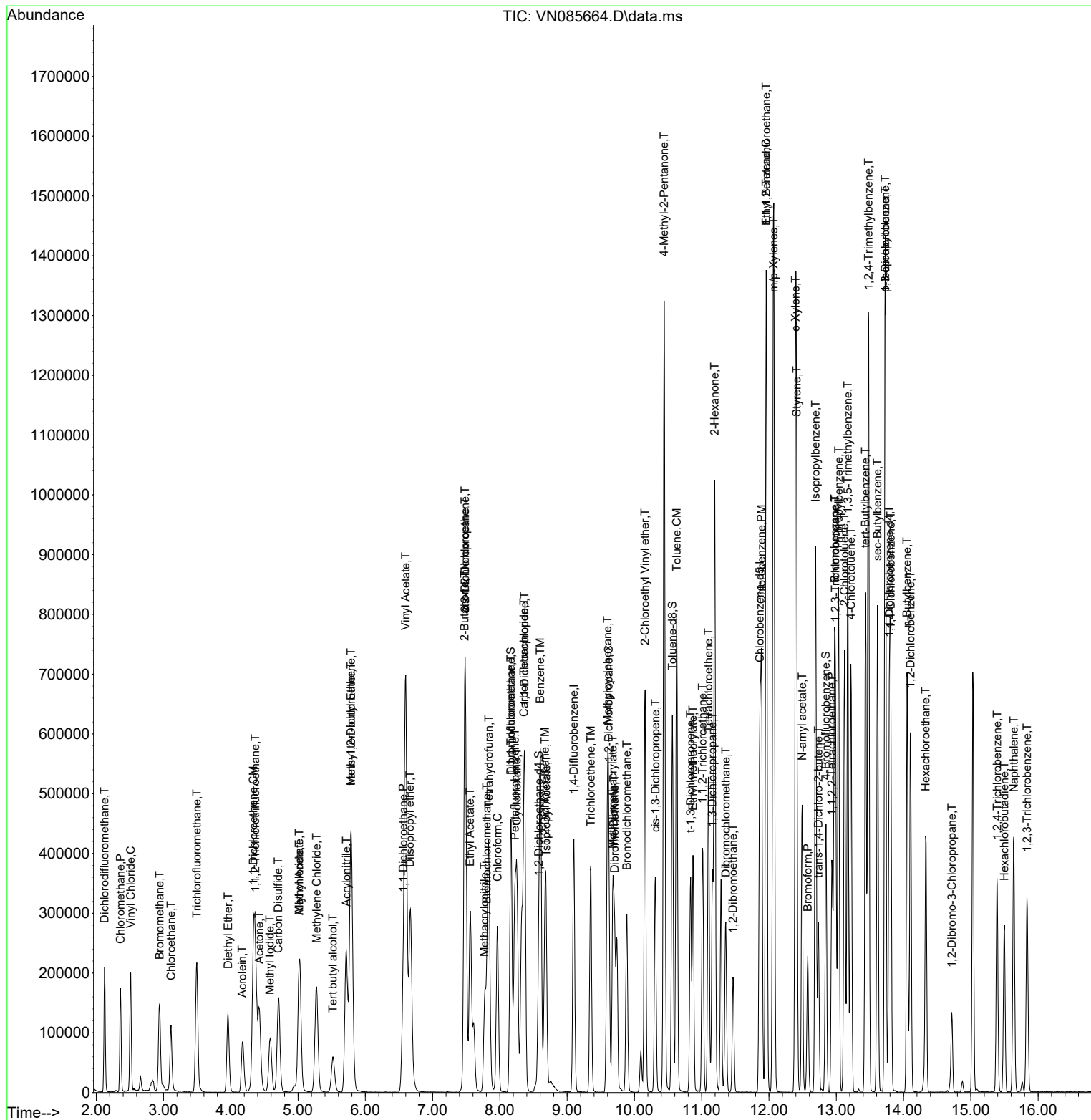
Quant Time: Feb 05 01:11:17 2025

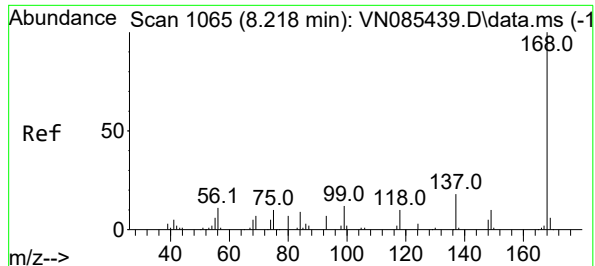
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 02:16:08 2025

Response via : Initial Calibration





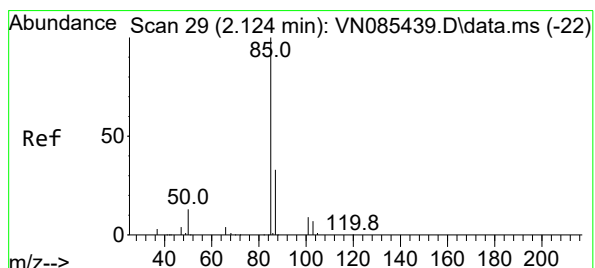
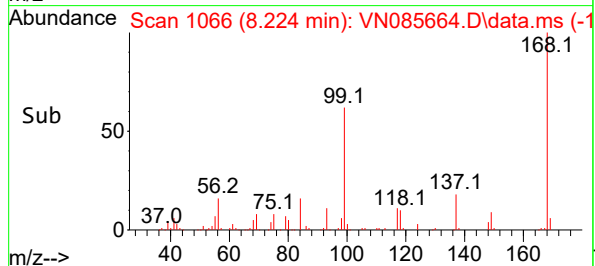
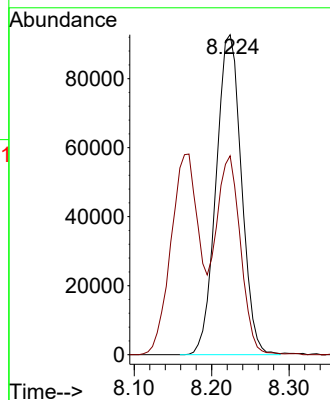
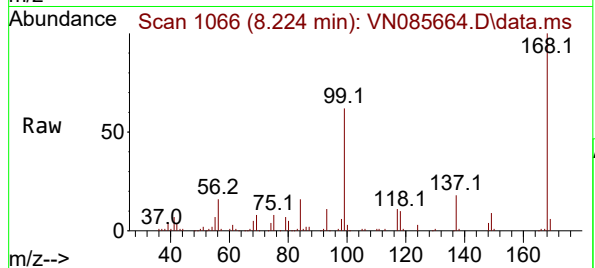
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 210769
Ion Ratio Lower Upper
168 100
99 61.8 53.6 80.4

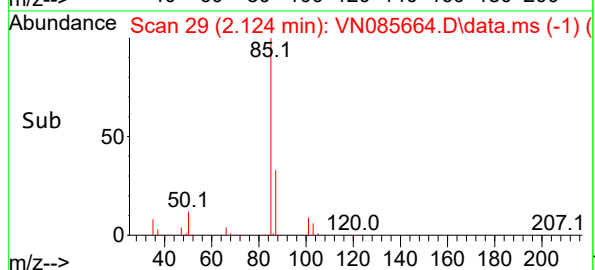
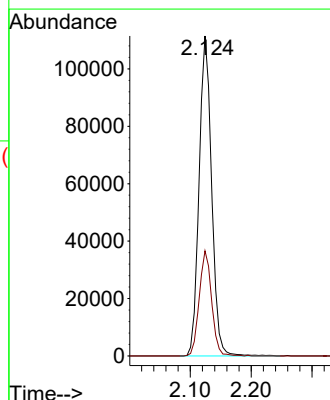
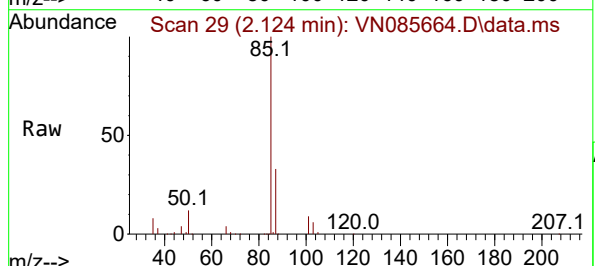
Manual Integrations
APPROVED

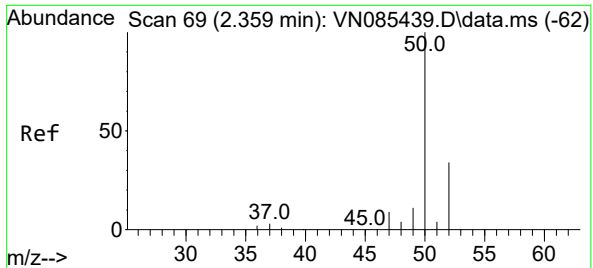
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#2
Dichlorodifluoromethane
Concen: 55.918 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 85 Resp: 159575
Ion Ratio Lower Upper
85 100
87 32.9 16.7 50.1





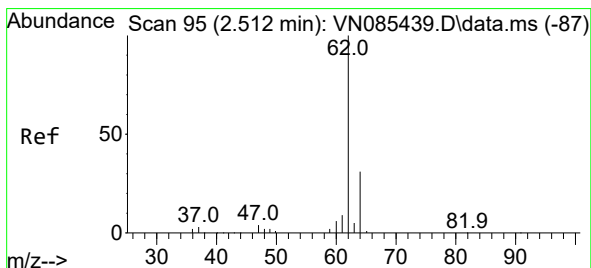
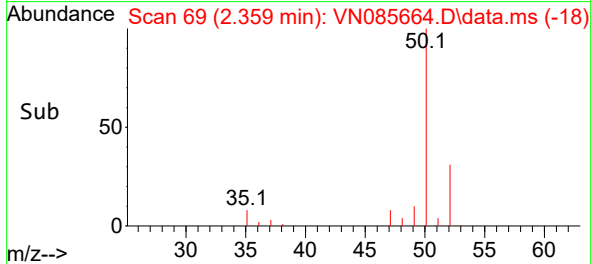
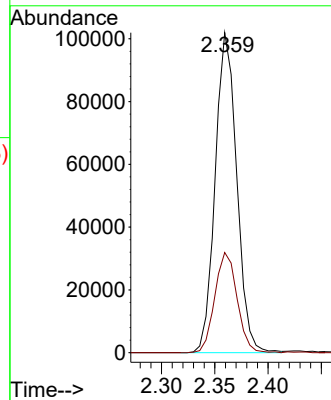
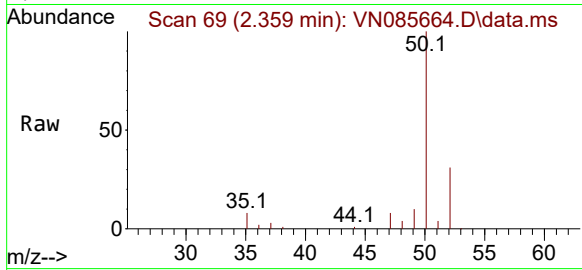
#3
Chloromethane
Concen: 46.328 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 14314
Ion Ratio Lower Upper
50 100
52 31.3 27.0 40.6

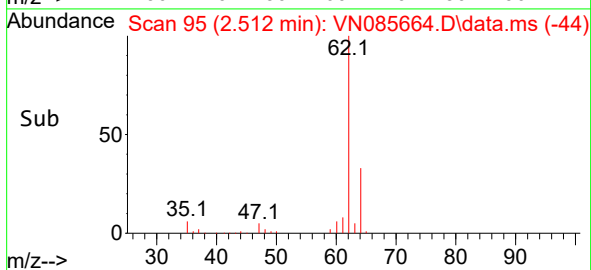
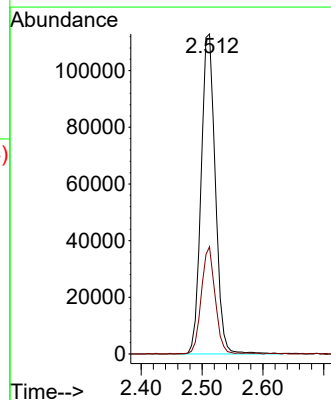
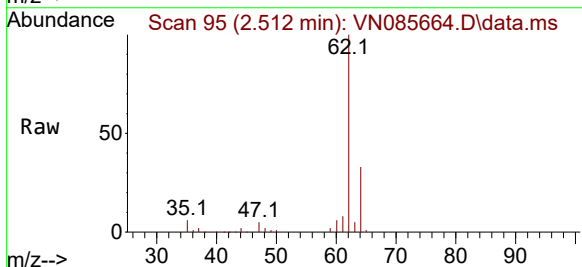
Manual Integrations
APPROVED

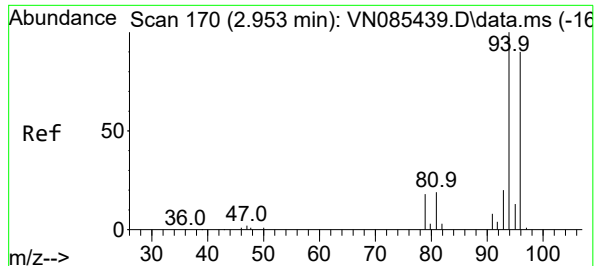
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#4
Vinyl Chloride
Concen: 59.136 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 62 Resp: 183659
Ion Ratio Lower Upper
62 100
64 33.3 24.8 37.2





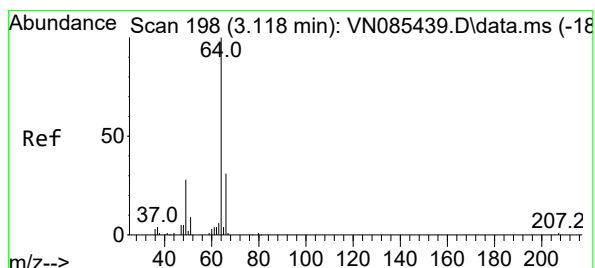
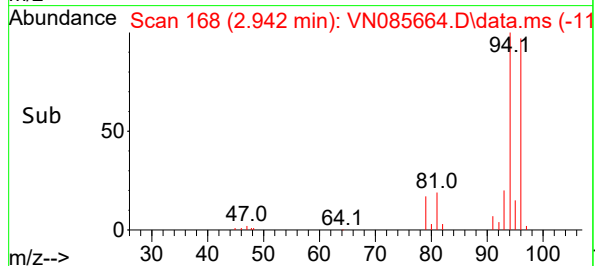
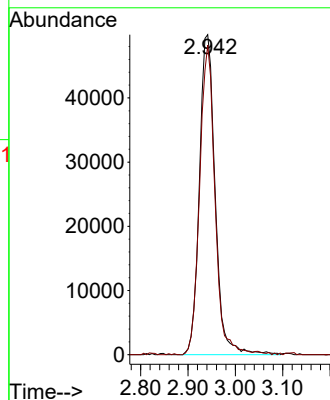
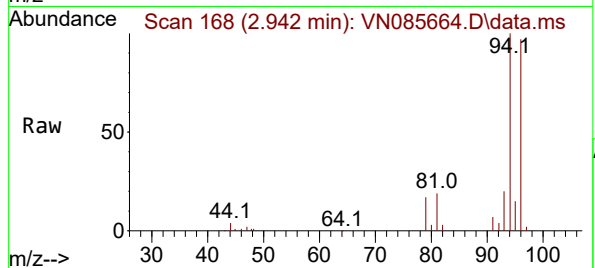
#5
Bromomethane
Concen: 61.398 ug/l
RT: 2.942 min Scan# 11518
Delta R.T. -0.012 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 11518
Ion Ratio Lower Upper
94 100
96 96.8 71.8 107.6

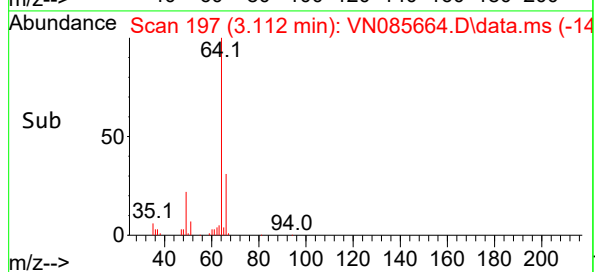
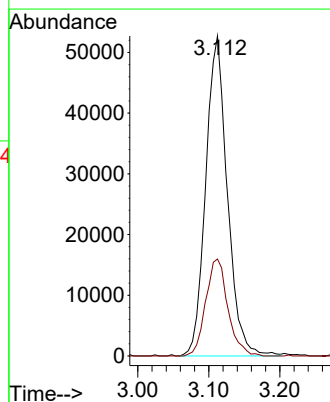
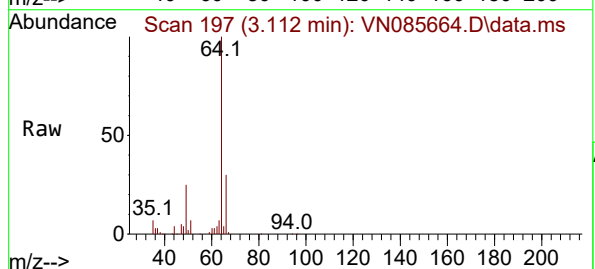
Manual Integrations
APPROVED

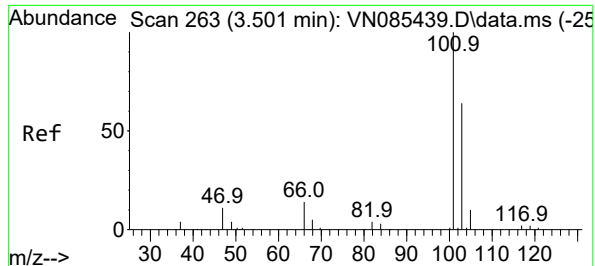
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#6
Chloroethane
Concen: 56.685 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

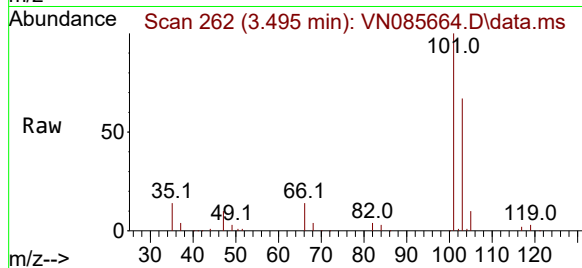
Tgt Ion: 64 Resp: 111613
Ion Ratio Lower Upper
64 100
66 30.3 24.6 36.8





#7
Trichlorofluoromethane
Concen: 50.691 ug/l
RT: 3.495 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

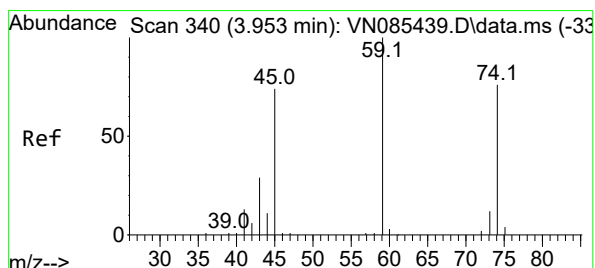
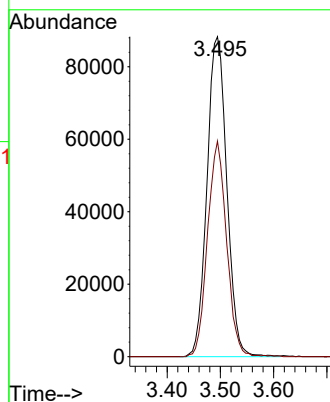
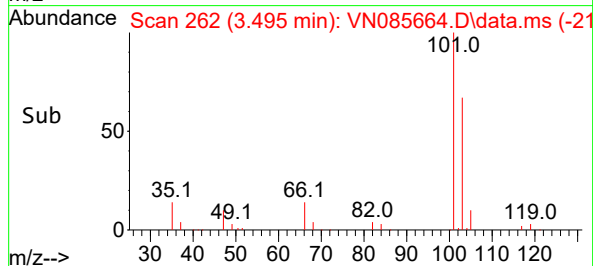
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



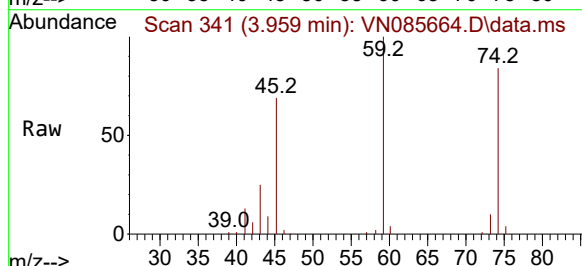
Tgt Ion:101 Resp: 22843
Ion Ratio Lower Upper
101 100
103 67.4 51.4 77.2

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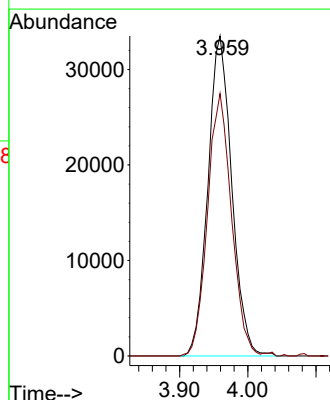
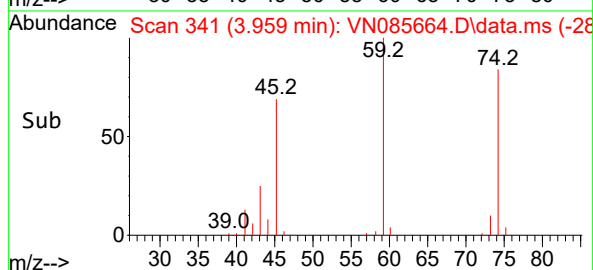
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

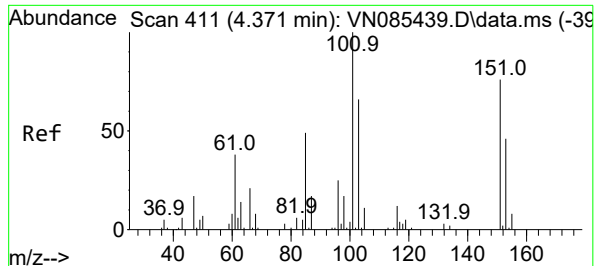


#8
Diethyl Ether
Concen: 52.547 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 74 Resp: 81803
Ion Ratio Lower Upper
74 100
45 82.0 49.7 149.1





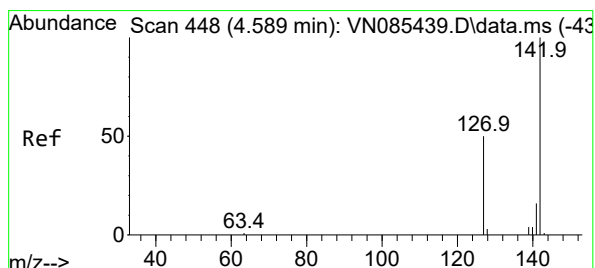
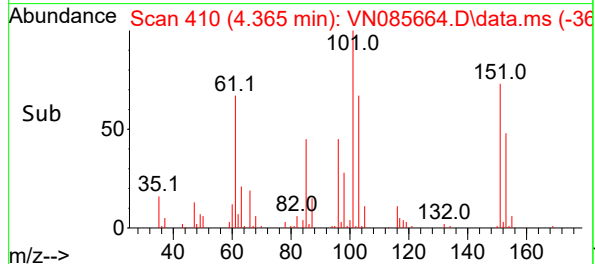
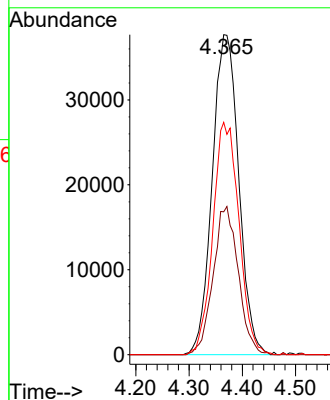
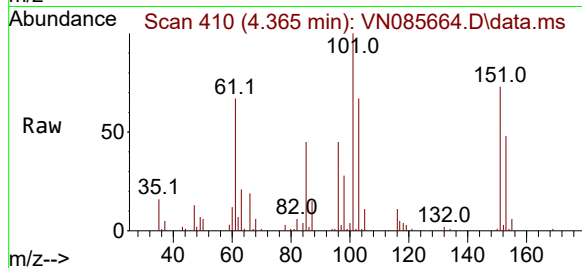
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.313 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 130239
Ion Ratio Lower Upper
101 100
85 43.9 37.8 56.8
151 71.6 58.8 88.2

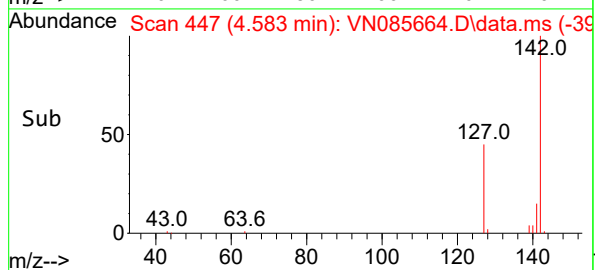
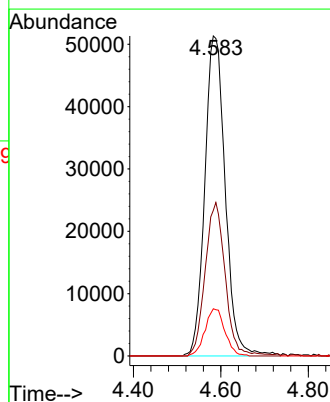
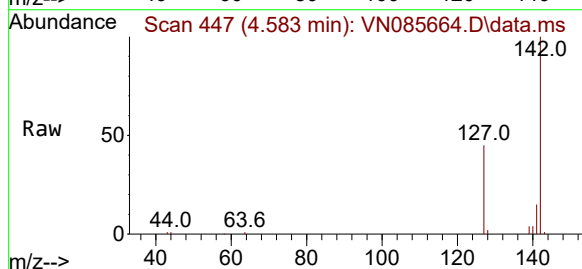
Manual Integrations
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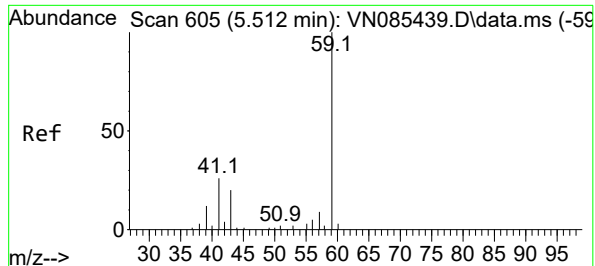
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#10
Methyl Iodide
Concen: 57.456 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:142 Resp: 167001
Ion Ratio Lower Upper
142 100
127 45.5 40.3 60.5
141 14.8 12.8 19.2





#11

Tert butyl alcohol

Concen: 275.633 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 59 Resp: 10738

Ion Ratio Lower Upper

59 100

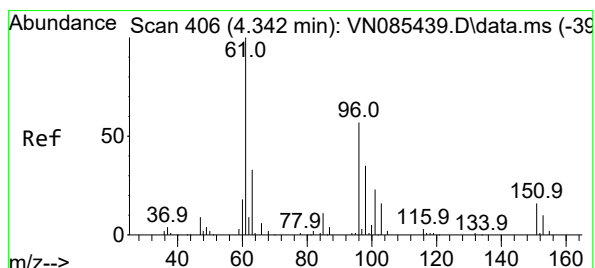
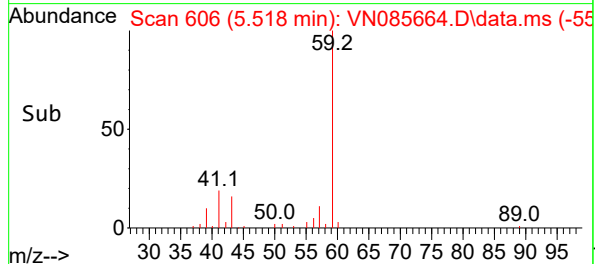
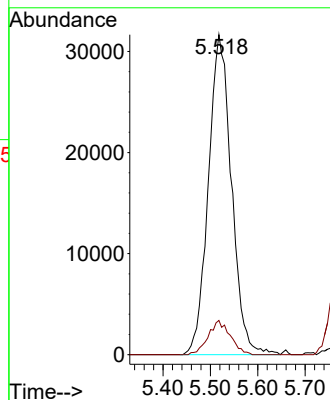
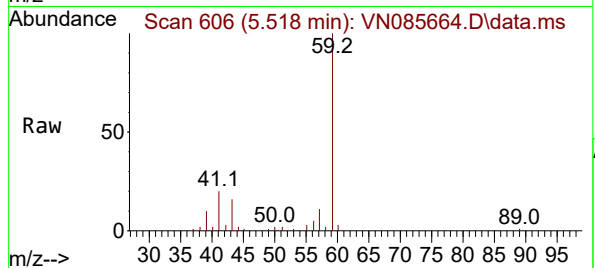
57 10.2 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#12

1,1-Dichloroethene

Concen: 56.652 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

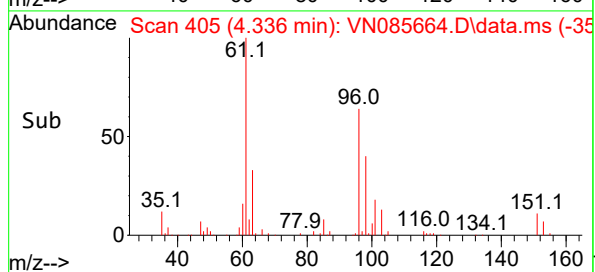
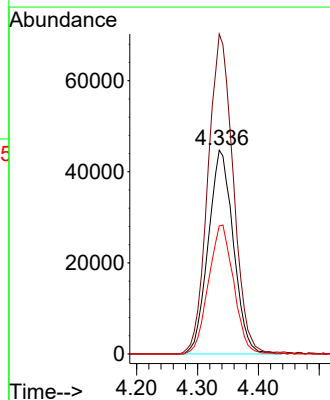
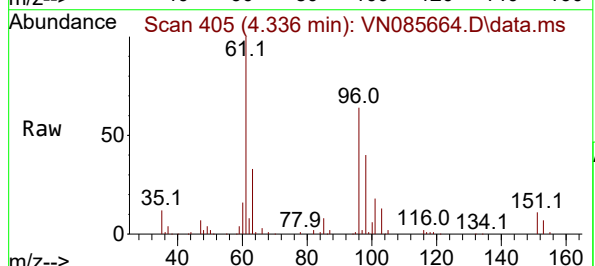
Tgt Ion: 96 Resp: 128149

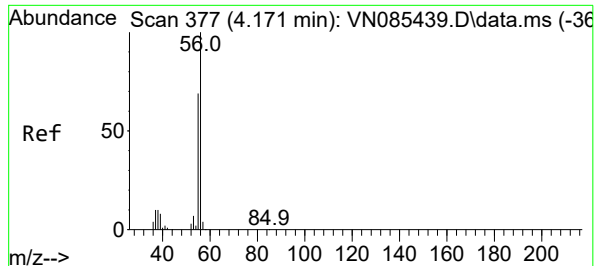
Ion Ratio Lower Upper

96 100

61 157.0 141.0 211.4

98 62.8 49.0 73.6





#13

Acrolein

Concen: 210.430 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 111909

Ion Ratio Lower Upper

56 100

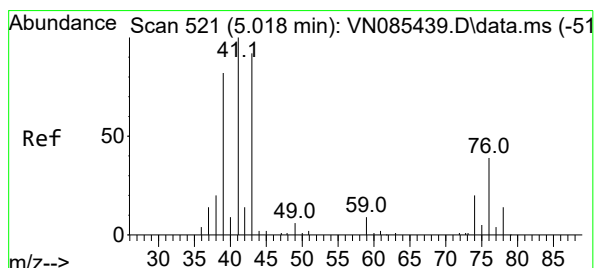
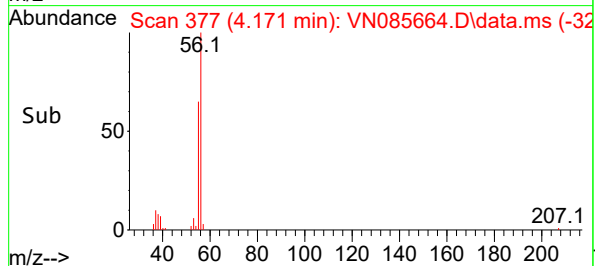
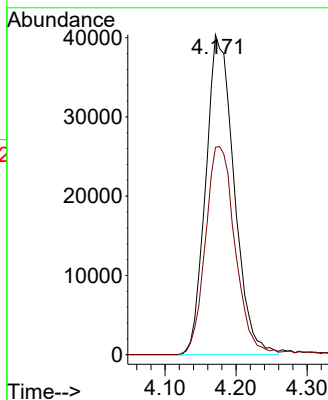
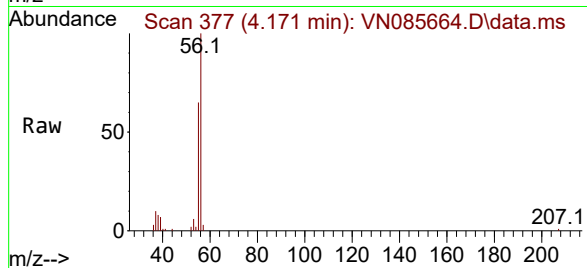
55 68.1 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#14

Allyl chloride

Concen: 42.748 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

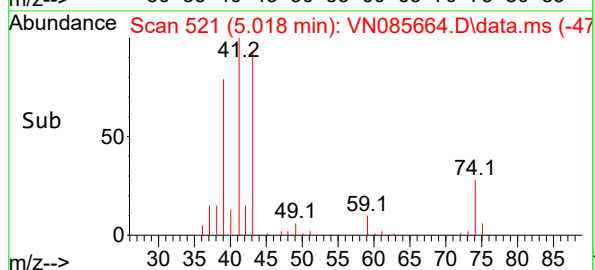
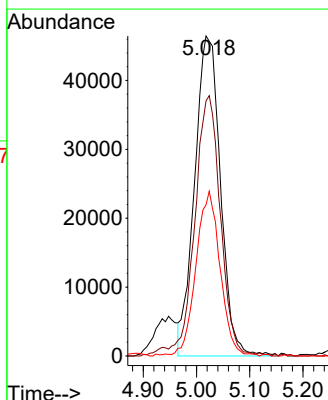
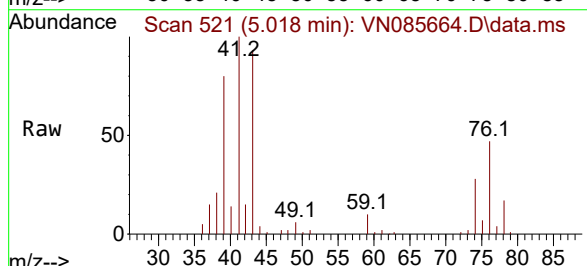
Tgt Ion: 41 Resp: 156910

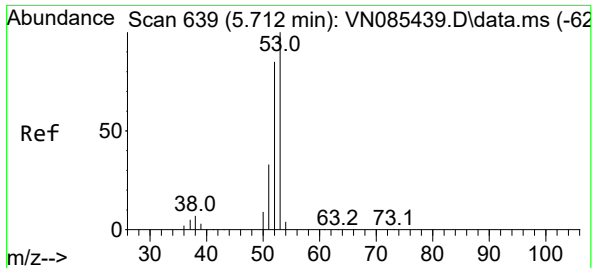
Ion Ratio Lower Upper

41 100

39 81.4 64.4 96.6

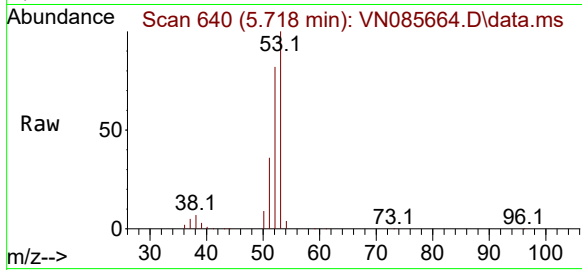
76 48.1 30.5 45.7#





#15
Acrylonitrile
Concen: 250.976 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

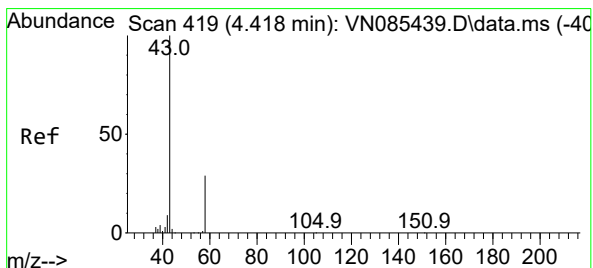
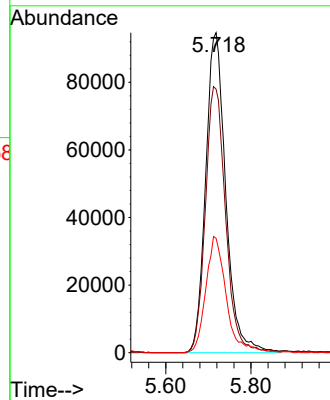
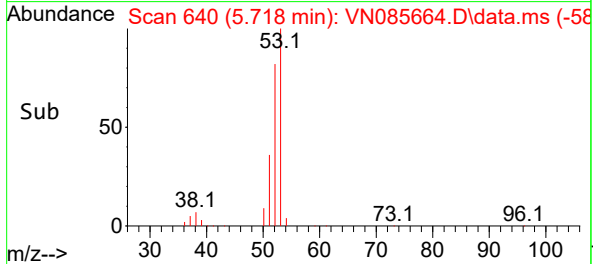
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 53 Resp: 31056
Ion Ratio Lower Upper
53 100
52 83.6 65.5 98.3
51 36.8 29.8 44.8

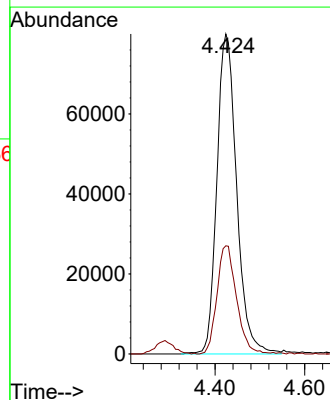
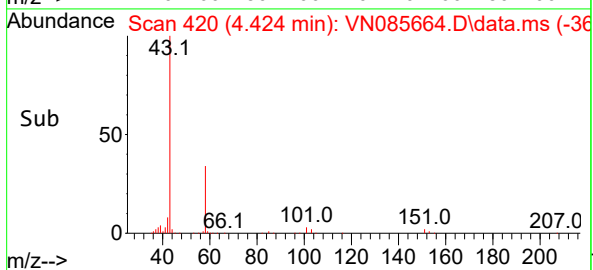
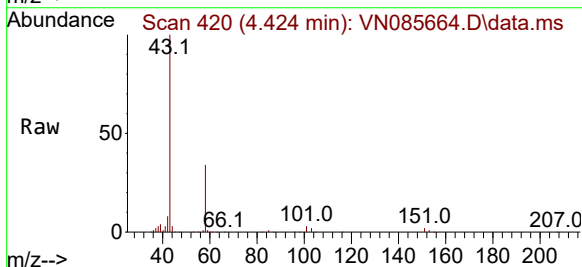
Manual Integrations
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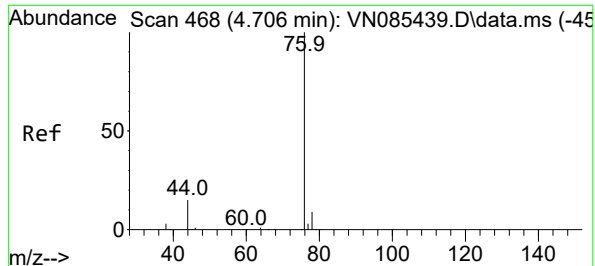
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#16
Acetone
Concen: 222.804 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 43 Resp: 244927
Ion Ratio Lower Upper
43 100
58 33.4 23.8 35.6





#17

Carbon Disulfide

Concen: 52.815 ug/l

RT: 4.706 min Scan# 4

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 36784

Ion Ratio Lower Upper

76 100

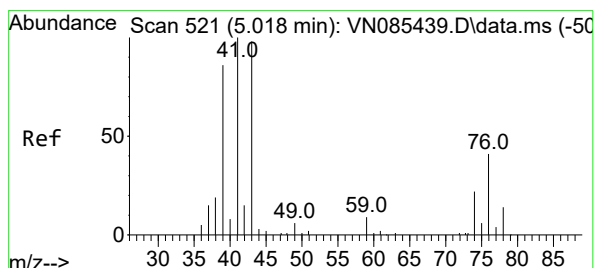
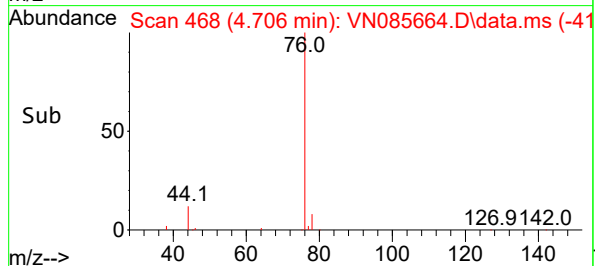
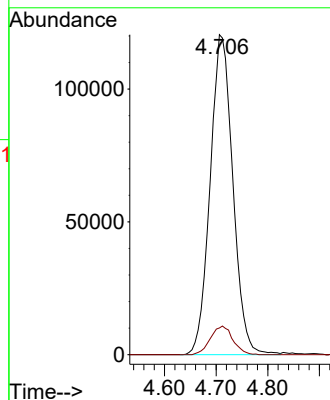
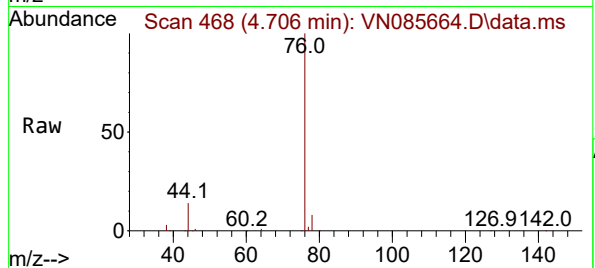
78 8.4 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#18

Methyl Acetate

Concen: 43.573 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085664.D

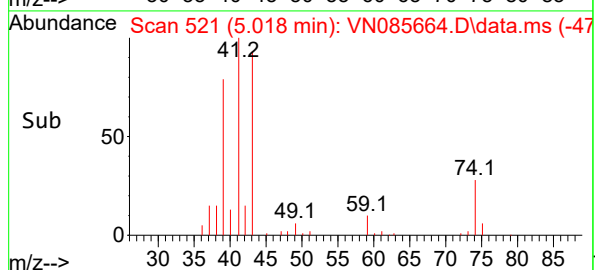
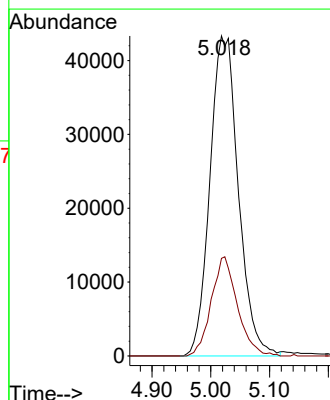
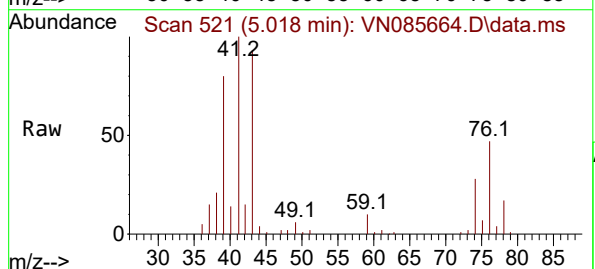
Acq: 04 Feb 2025 20:15

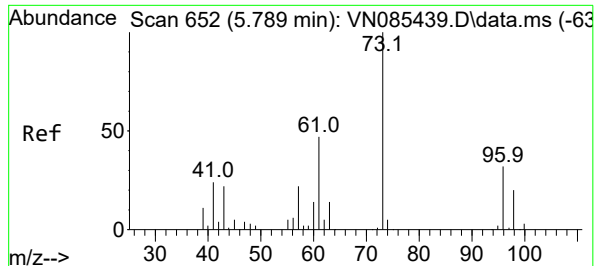
Tgt Ion: 43 Resp: 145654

Ion Ratio Lower Upper

43 100

74 28.5 18.6 28.0#





#19

Methyl tert-butyl Ether

Concen: 55.635 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 40864

Ion Ratio Lower Upper

73 100

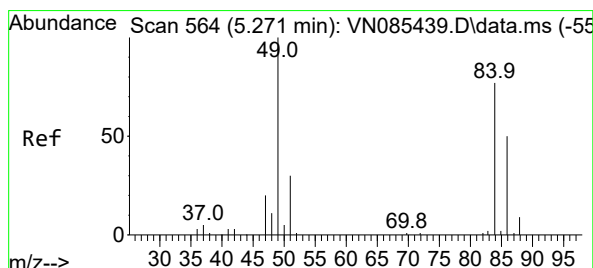
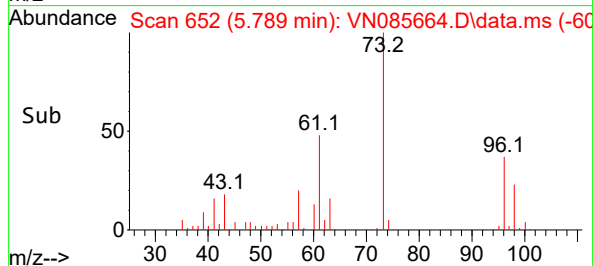
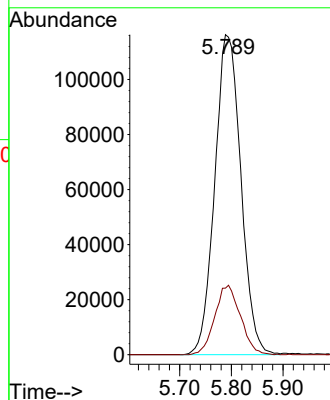
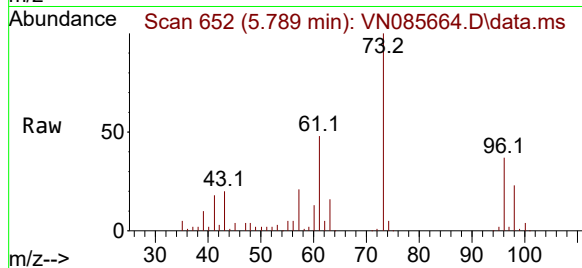
57 20.8 17.8 26.8

Manual Integrations

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Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#20

Methylene Chloride

Concen: 52.381 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Tgt Ion: 84 Resp: 142550

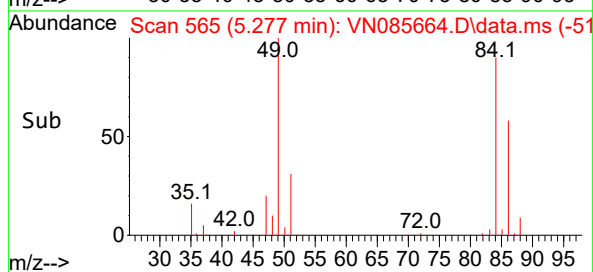
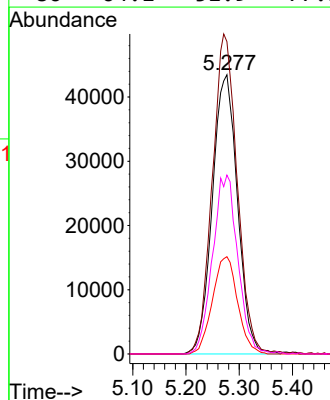
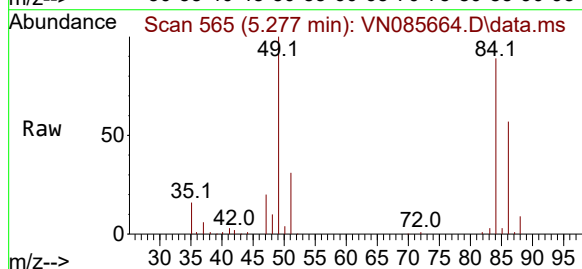
Ion Ratio Lower Upper

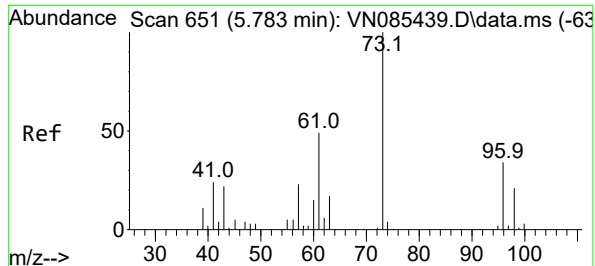
84 100

49 111.9 104.1 156.1

51 34.8 31.0 46.4

86 64.1 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 55.262 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 13359

Ion Ratio Lower Upper

96 100

61 130.5 115.7 173.5

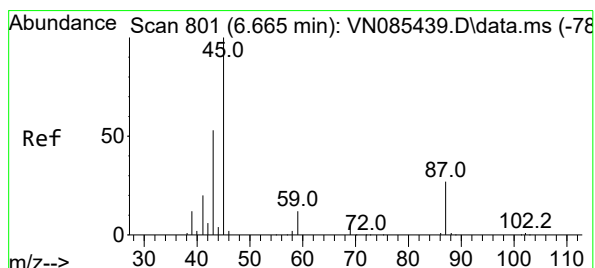
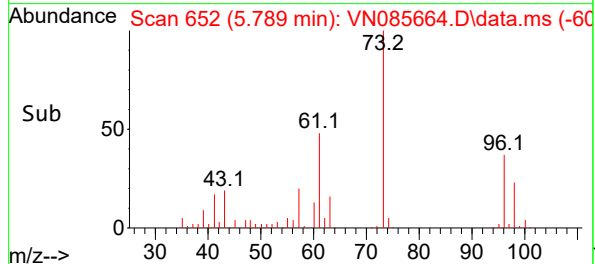
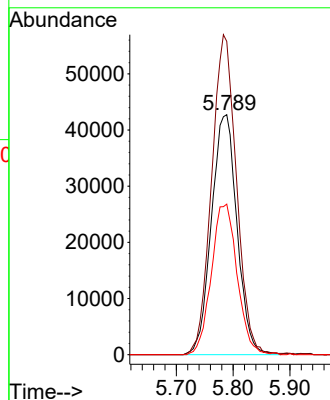
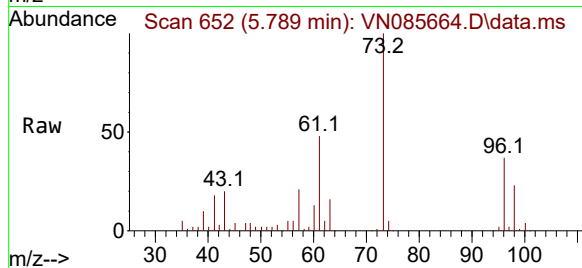
98 62.7 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#22

Diisopropyl ether

Concen: 46.502 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Tgt Ion: 45 Resp: 378858

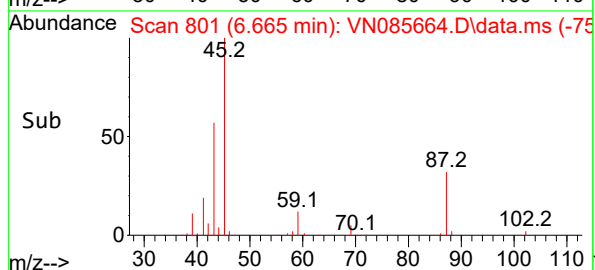
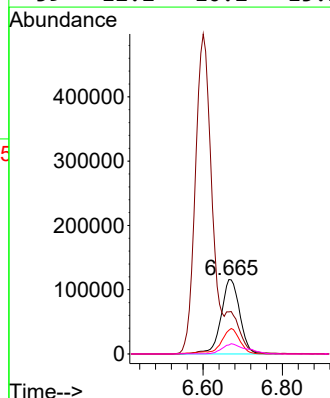
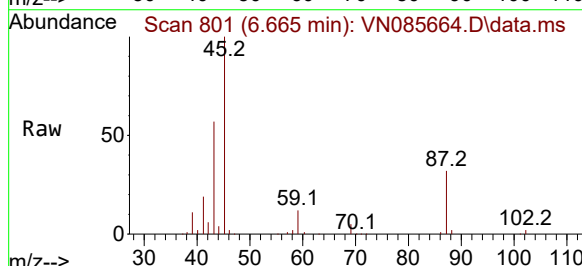
Ion Ratio Lower Upper

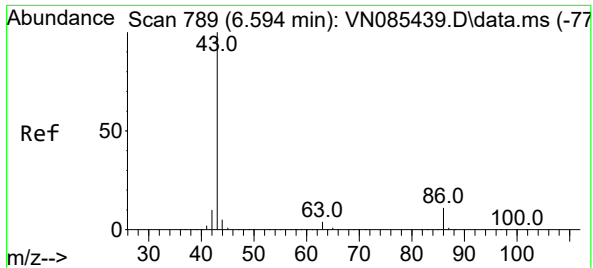
45 100

43 55.9 45.0 67.6

87 31.7 21.8 32.8

59 12.2 10.2 15.2





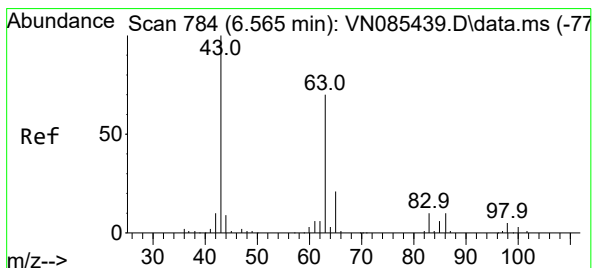
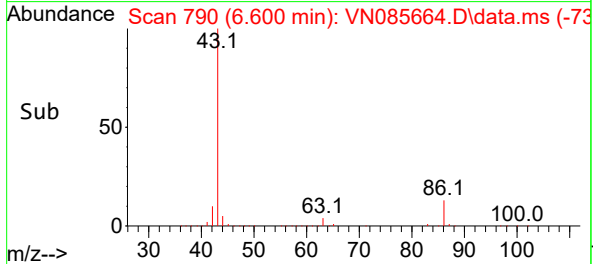
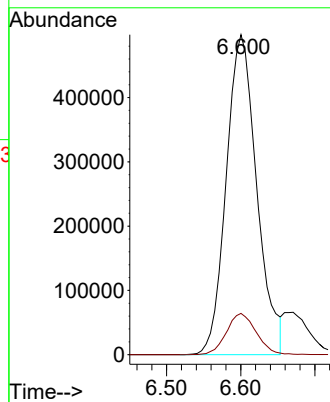
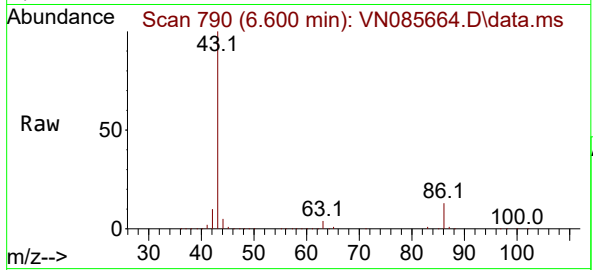
#23
Vinyl Acetate
Concen: 250.107 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 142600
Ion Ratio Lower Upper
43 100
86 12.9 8.4 12.6

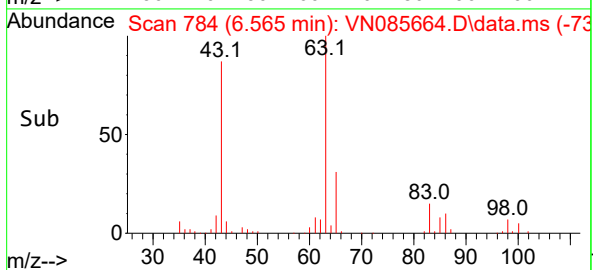
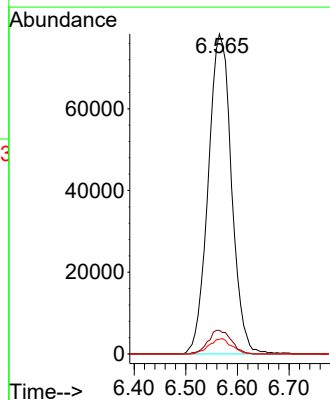
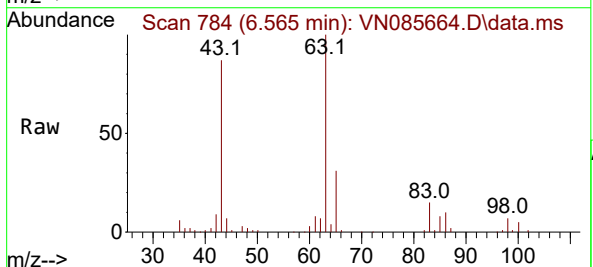
Manual Integrations
APPROVED

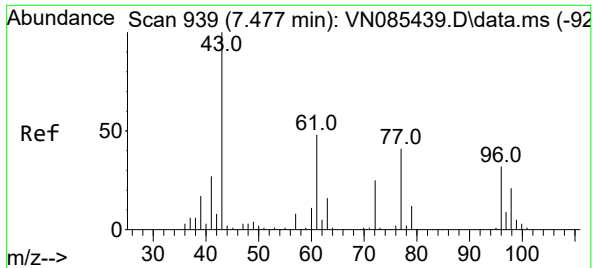
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#24
1,1-Dichloroethane
Concen: 49.375 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

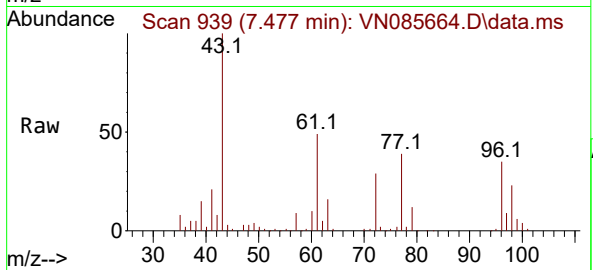
Tgt Ion: 63 Resp: 245281
Ion Ratio Lower Upper
63 100
98 7.4 3.3 9.8
100 4.6 2.0 6.0





#25
2-Butanone
Concen: 241.200 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

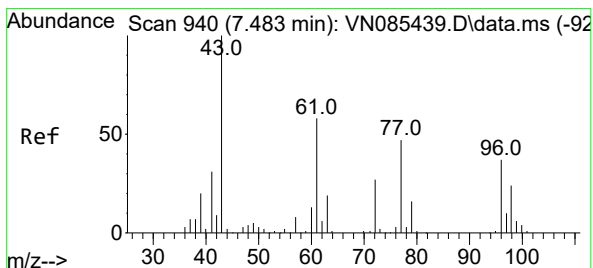
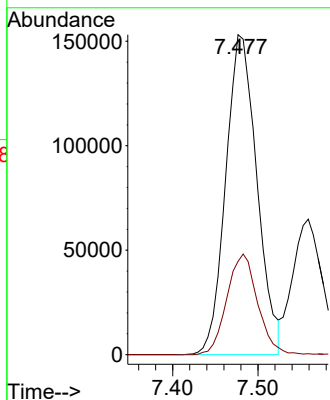
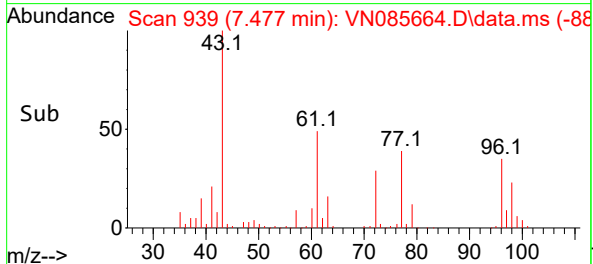
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



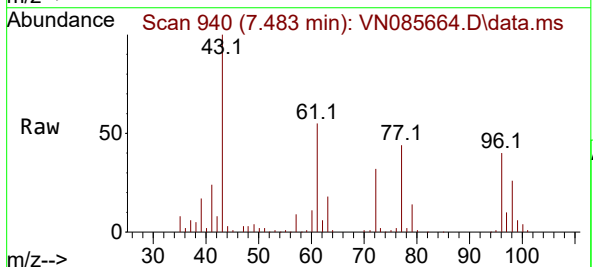
Tgt Ion: 43 Resp: 390192
Ion Ratio Lower Upper
43 100
72 29.2 20.2 30.4

Manual Integrations
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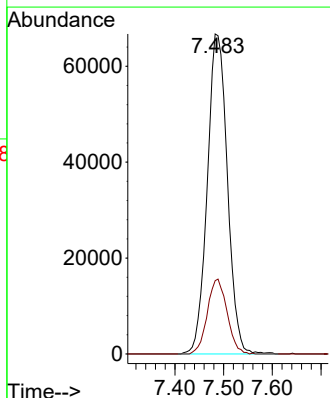
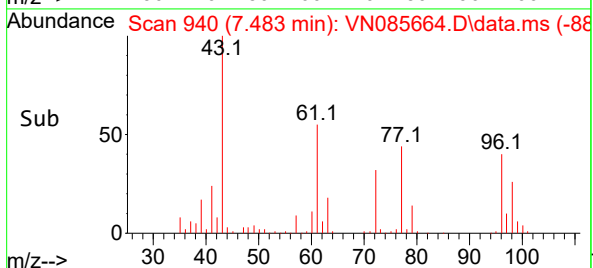
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

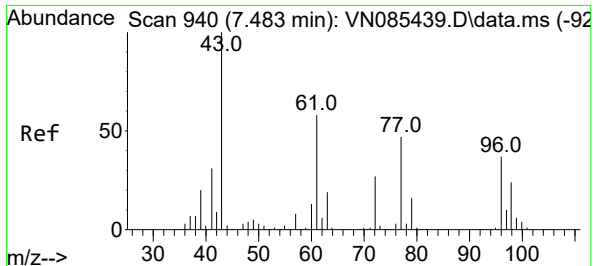


#26
2,2-Dichloropropane
Concen: 47.643 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 77 Resp: 191354
Ion Ratio Lower Upper
77 100
97 22.9 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 55.030 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 15669

Ion Ratio Lower Upper

96 100

61 137.9 0.0 311.8

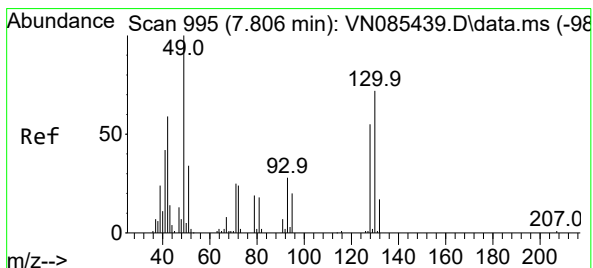
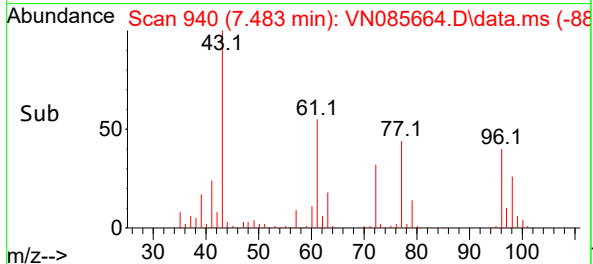
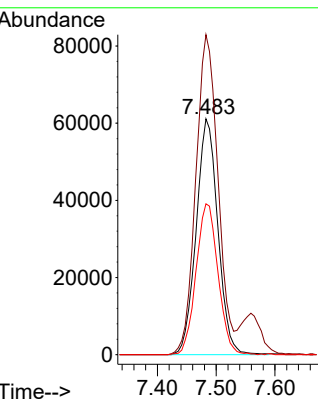
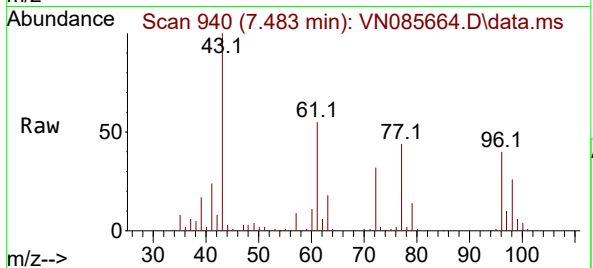
98 64.7 0.0 126.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#28

Bromochloromethane

Concen: 37.096 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

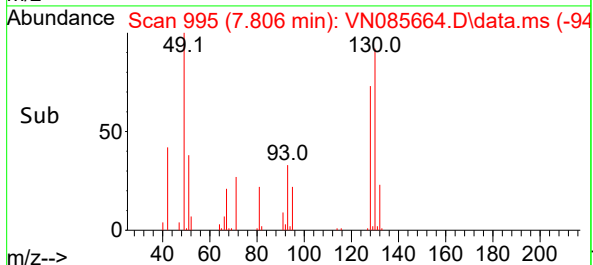
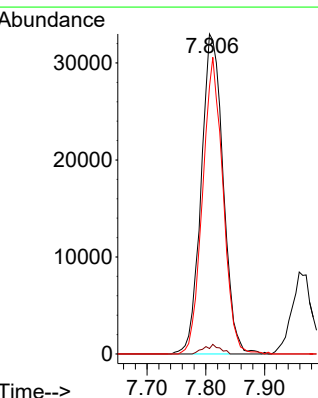
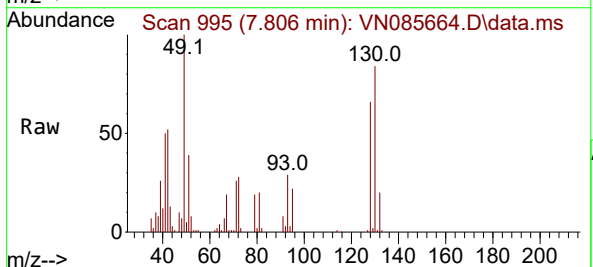
Tgt Ion: 49 Resp: 85736

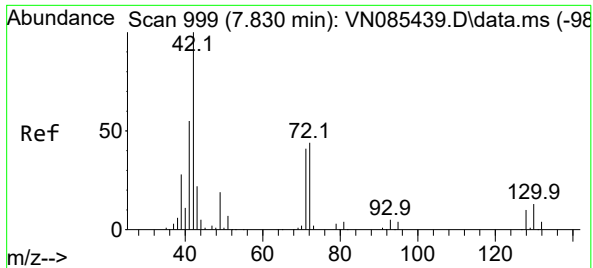
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 85.9 55.0 82.4#





#29

Tetrahydrofuran

Concen: 254.248 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 260760

Ion Ratio Lower Upper

42 100

72 52.3 34.2 51.2

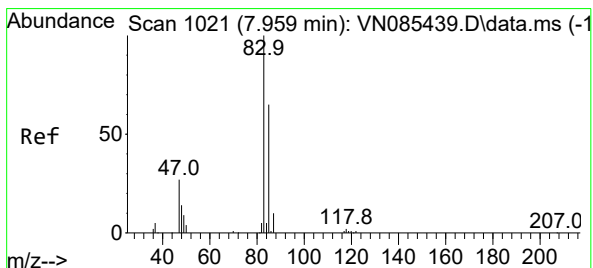
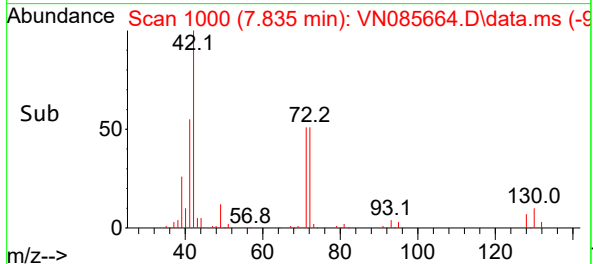
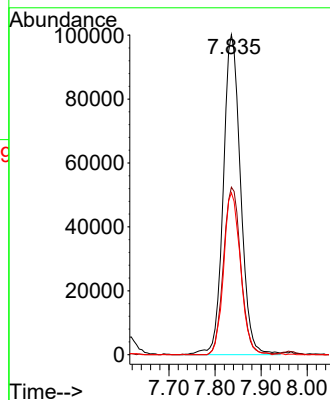
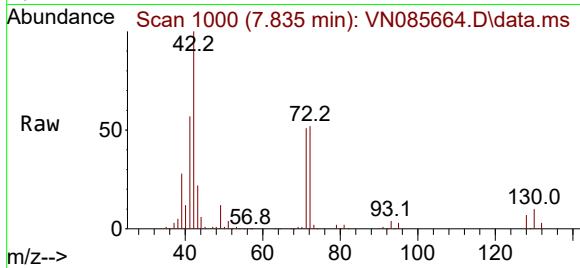
71 49.4 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#30

Chloroform

Concen: 49.133 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085664.D

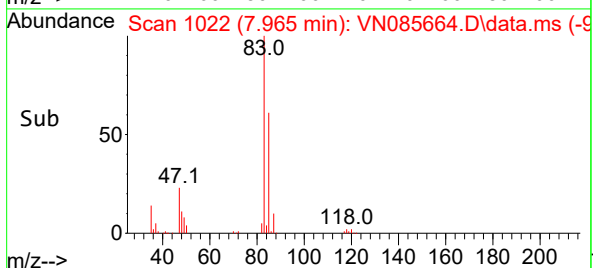
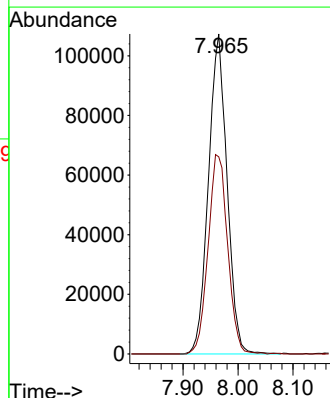
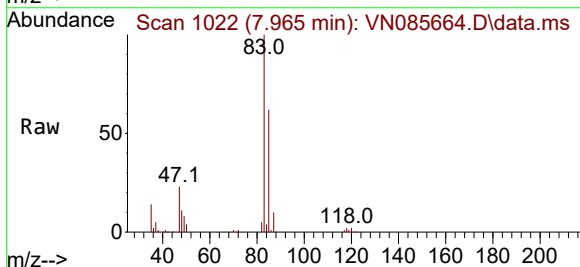
Acq: 04 Feb 2025 20:15

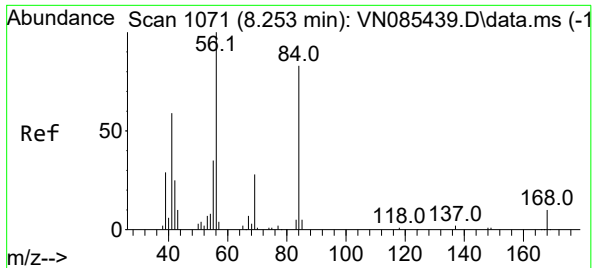
Tgt Ion: 83 Resp: 252262

Ion Ratio Lower Upper

83 100

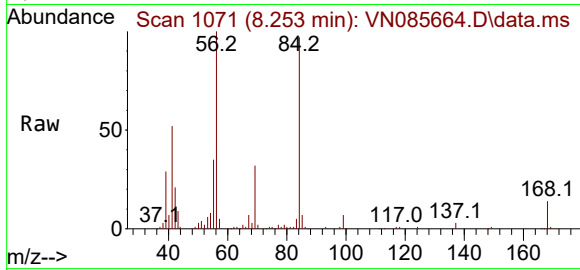
85 61.6 51.8 77.6





#31
Cyclohexane
Concen: 44.998 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

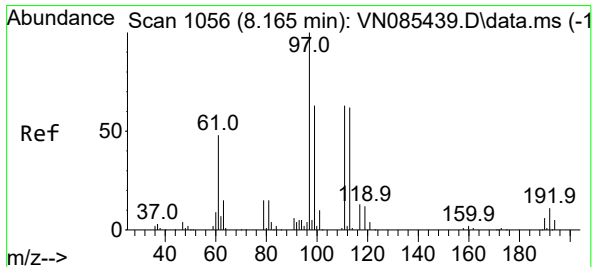
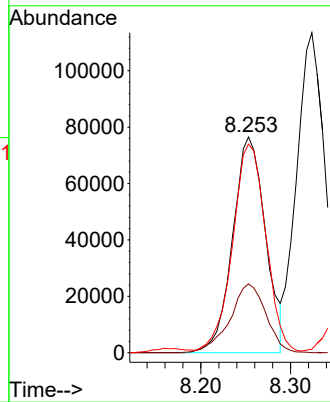
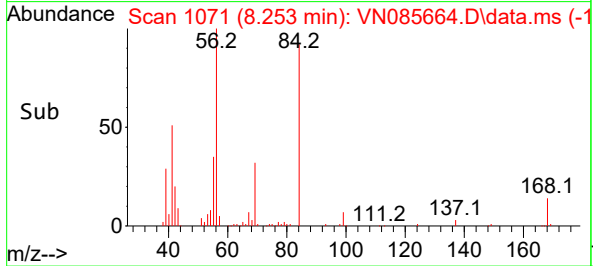
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



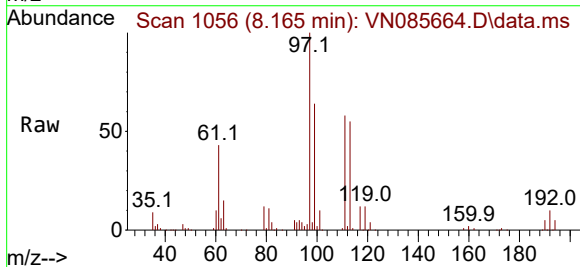
Tgt Ion: 56 Resp: 19429
Ion Ratio Lower Upper
56 100
69 31.9 22.2 33.4
84 95.1 66.4 99.6

Manual Integrations
APPROVED

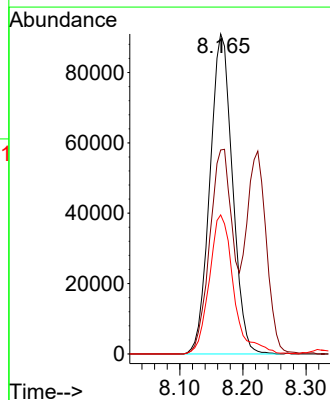
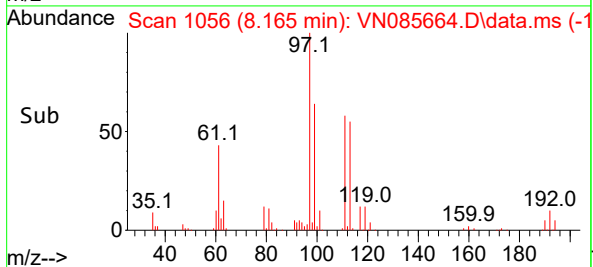
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

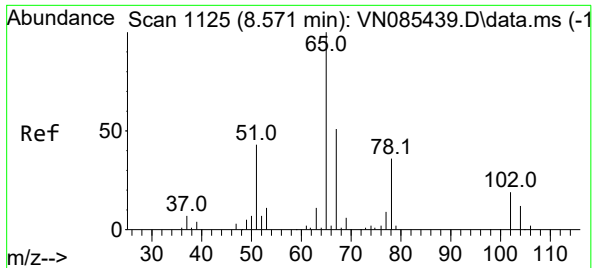


#32
1,1,1-Trichloroethane
Concen: 50.093 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 97 Resp: 225602
Ion Ratio Lower Upper
97 100
99 65.9 49.8 74.6
61 46.9 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 42.127 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 65 Resp: 143328

Ion Ratio Lower Upper

65 100

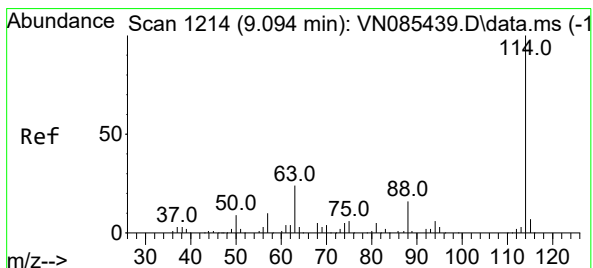
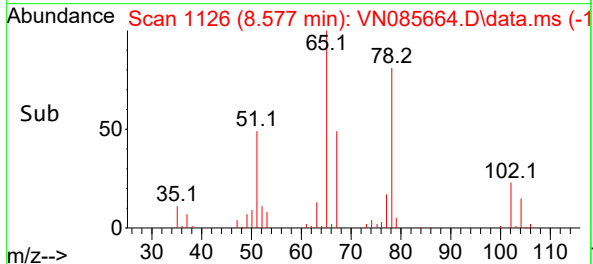
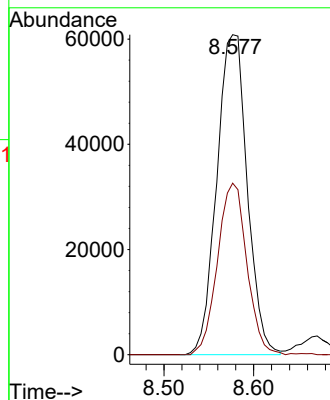
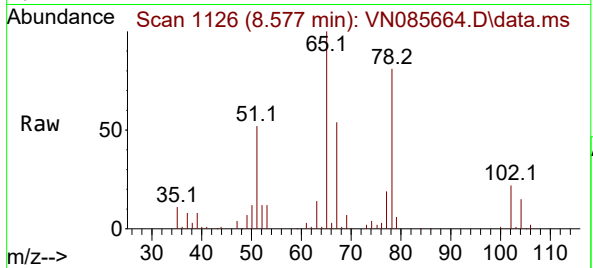
67 51.6 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

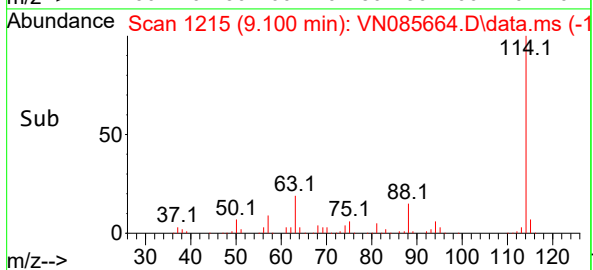
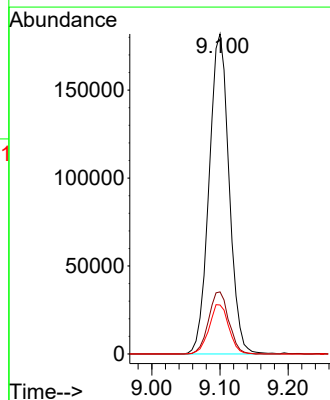
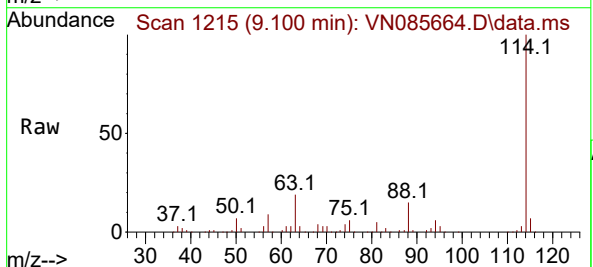
Tgt Ion:114 Resp: 370923

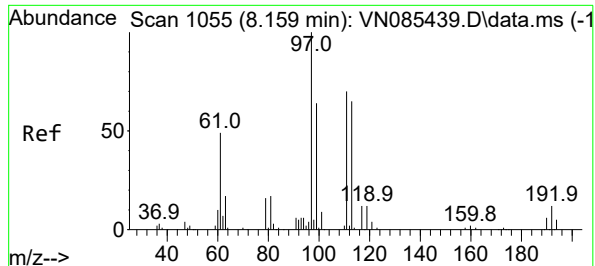
Ion Ratio Lower Upper

114 100

63 19.4 0.0 47.6

88 15.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 46.791 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:113 Resp: 12040

Ion Ratio Lower Upper

113 100

111 105.1 82.7 124.1

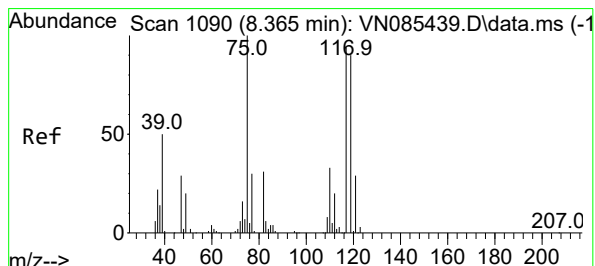
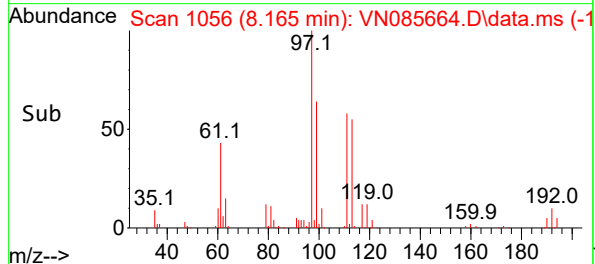
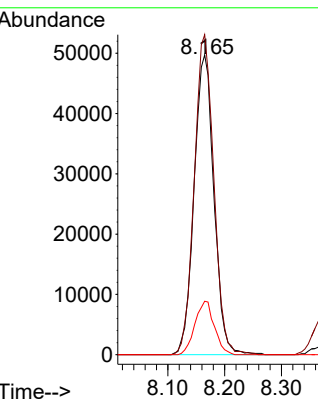
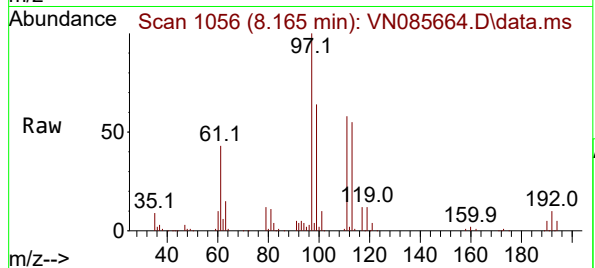
192 17.4 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#36

1,1-Dichloropropene

Concen: 50.496 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

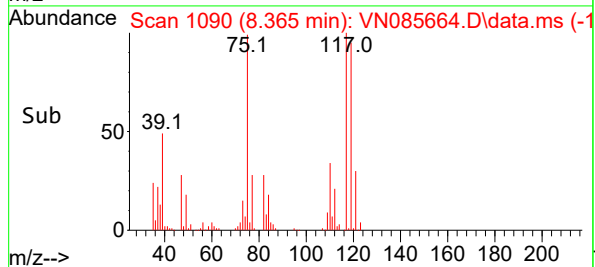
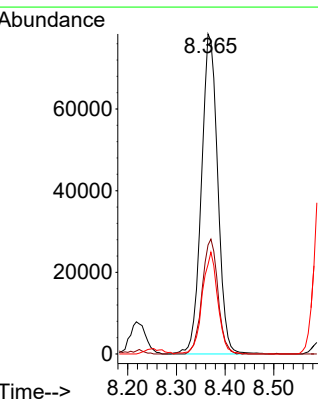
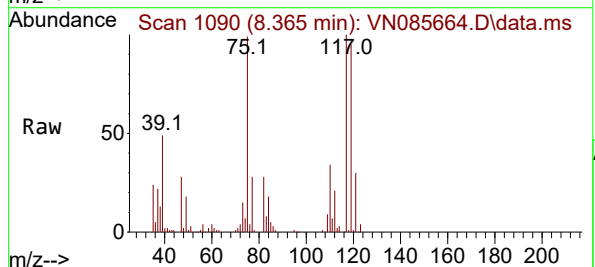
Tgt Ion: 75 Resp: 182370

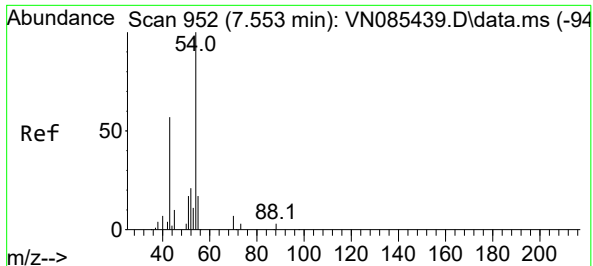
Ion Ratio Lower Upper

75 100

110 34.8 16.5 49.5

77 30.3 24.4 36.6





#37

Ethyl Acetate

Concen: 44.271 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 16138

Ion Ratio Lower Upper

43 100

61 15.4 10.9 16.3

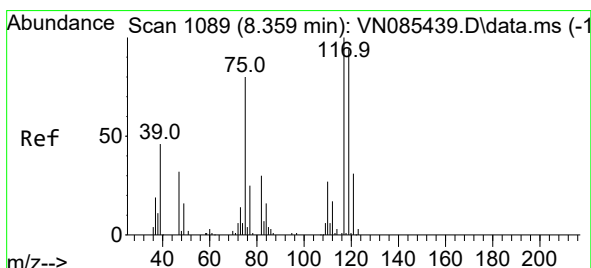
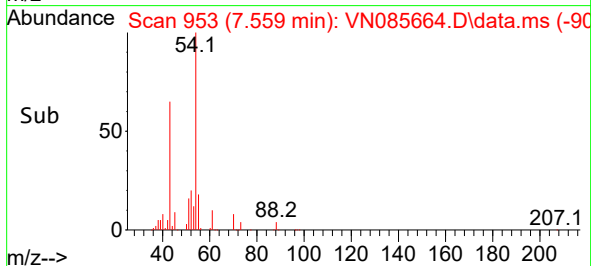
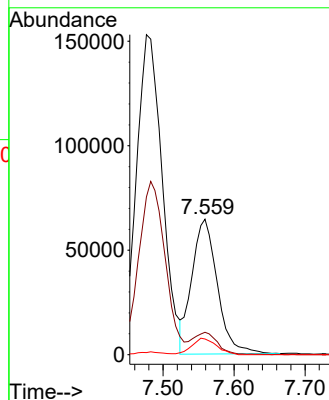
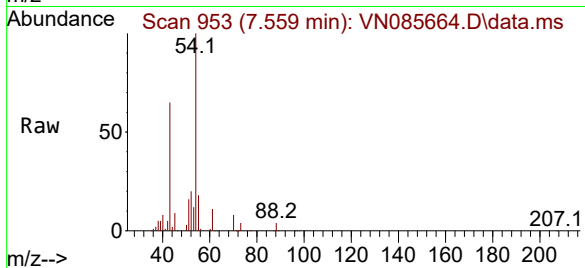
70 11.7 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#38

Carbon Tetrachloride

Concen: 49.323 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

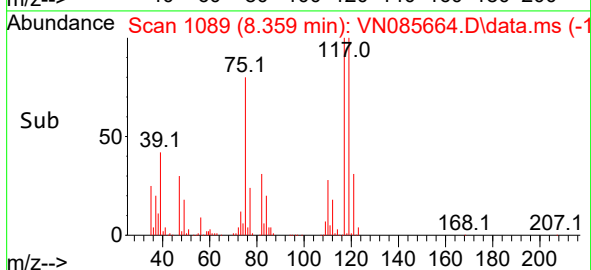
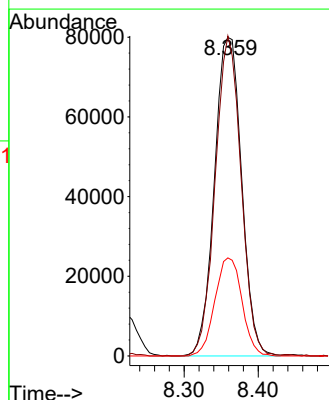
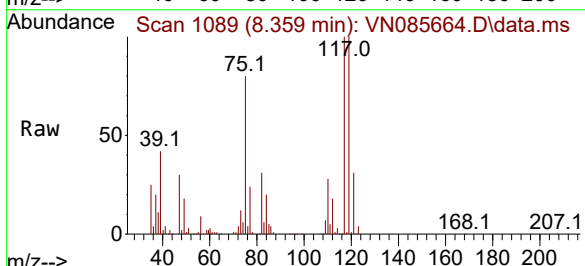
Tgt Ion:117 Resp: 203933

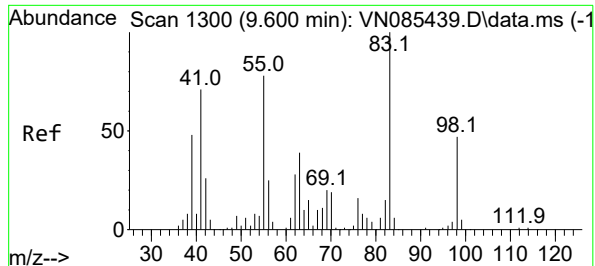
Ion Ratio Lower Upper

117 100

119 100.5 75.4 113.2

121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 52.749 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 179020

Ion Ratio Lower Upper

83 100

55 69.1 62.6 94.0

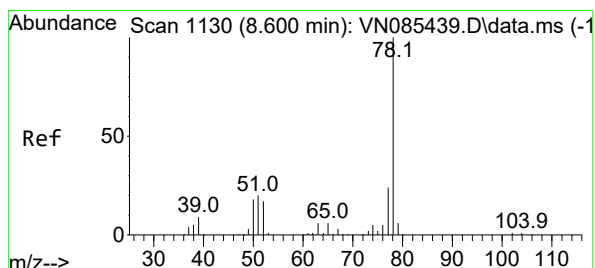
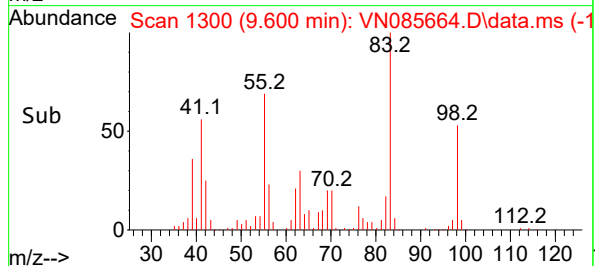
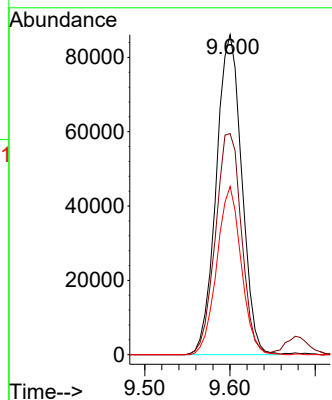
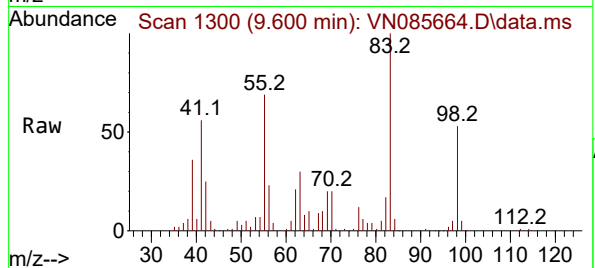
98 52.5 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#40

Benzene

Concen: 51.903 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085664.D

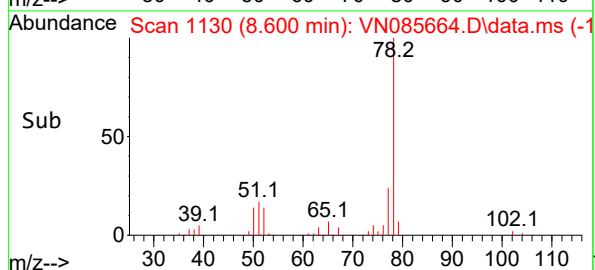
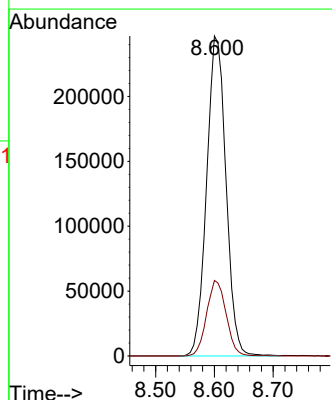
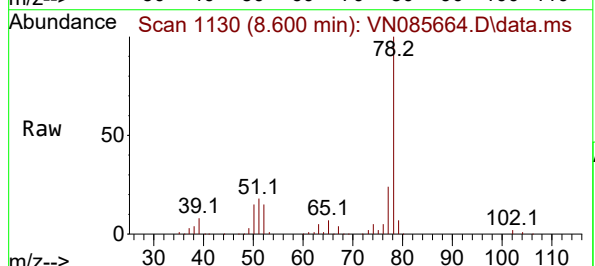
Acq: 04 Feb 2025 20:15

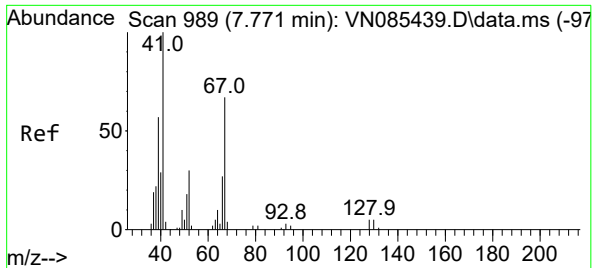
Tgt Ion: 78 Resp: 563231

Ion Ratio Lower Upper

78 100

77 23.6 19.0 28.6





#41
Methacrylonitrile
Concen: 44.255 ug/l
RT: 7.771 min Scan# 989
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

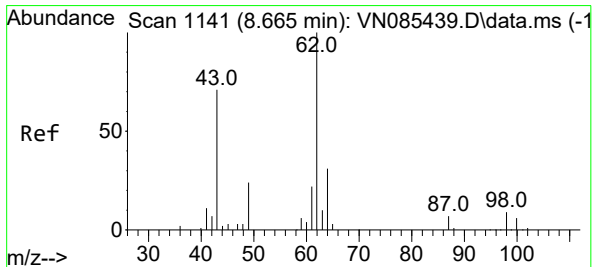
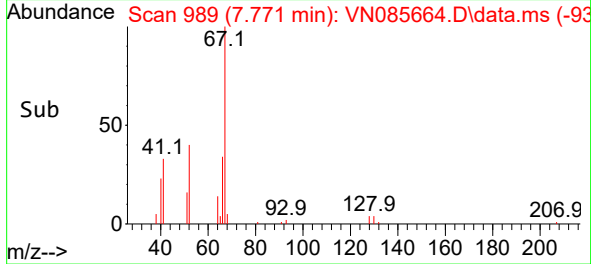
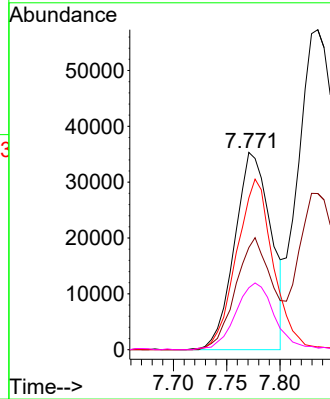
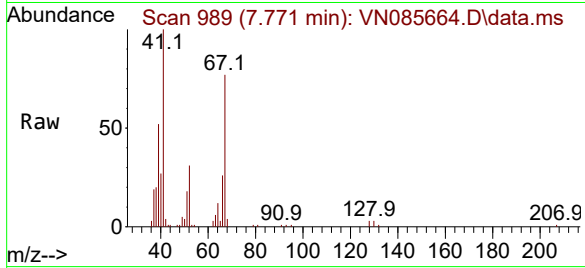
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 8393

Ion	Ratio	Lower	Upper
41	100		
39	59.4	46.0	69.0
67	87.9	57.4	86.2
52	36.6	25.5	38.3

Manual Integrations
APPROVED

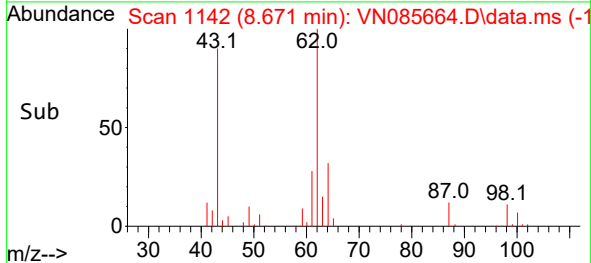
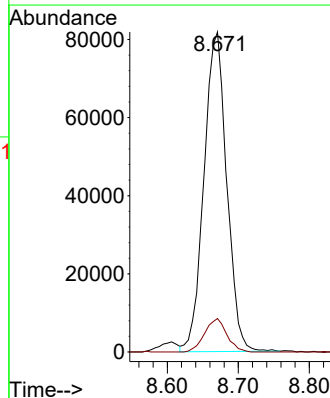
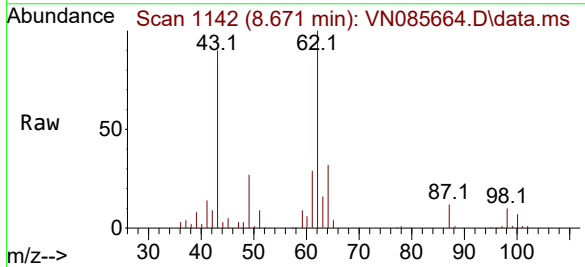
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

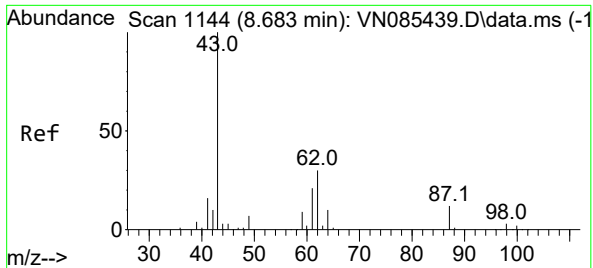


#42
1,2-Dichloroethane
Concen: 44.642 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 62 Resp: 182452

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	17.0





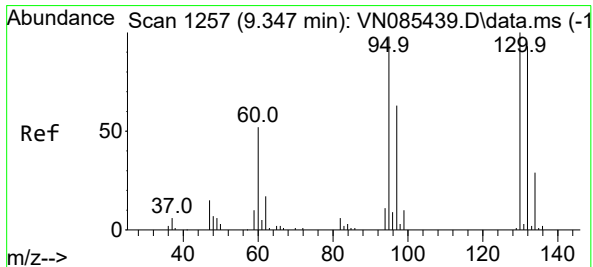
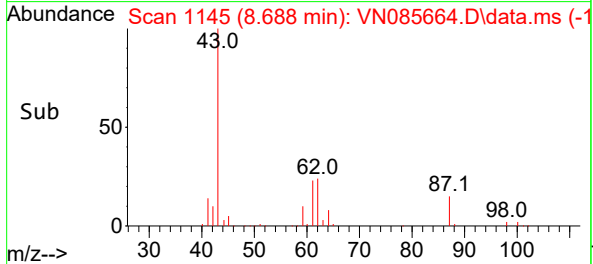
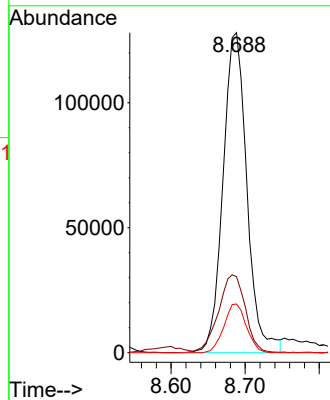
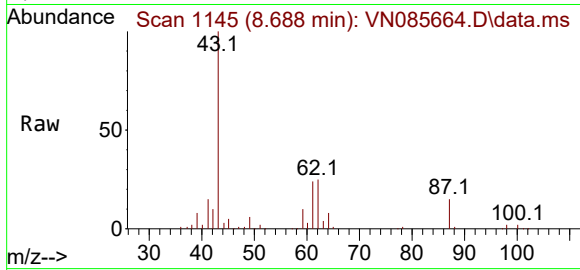
#43
Isopropyl Acetate
Concen: 49.118 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 28690
Ion Ratio Lower Upper
43 100
61 27.4 20.7 31.1
87 14.3 9.8 14.8

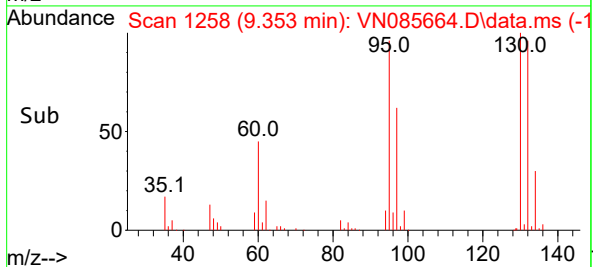
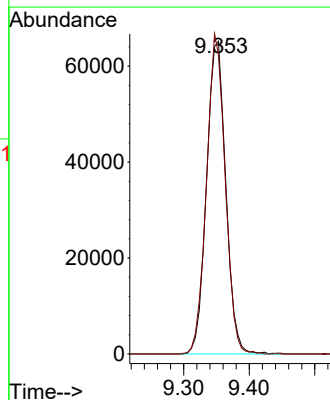
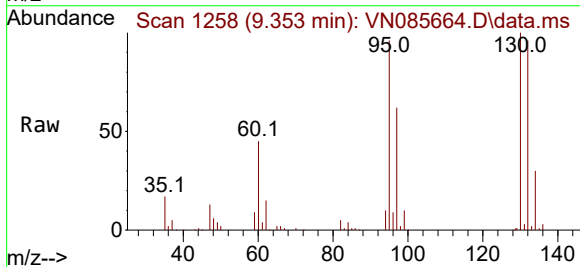
Manual Integrations
APPROVED

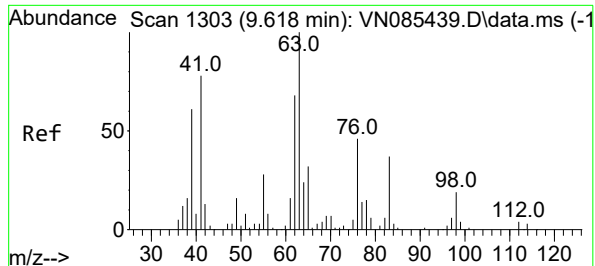
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#44
Trichloroethene
Concen: 52.726 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:130 Resp: 133186
Ion Ratio Lower Upper
130 100
95 95.6 0.0 195.8





#45

1,2-Dichloropropane

Concen: 47.761 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 13238

Ion Ratio Lower Upper

63 100

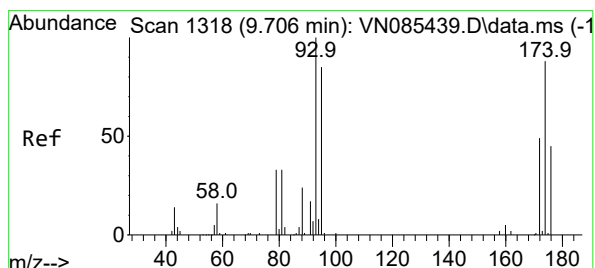
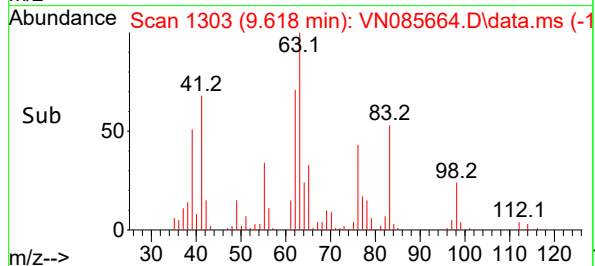
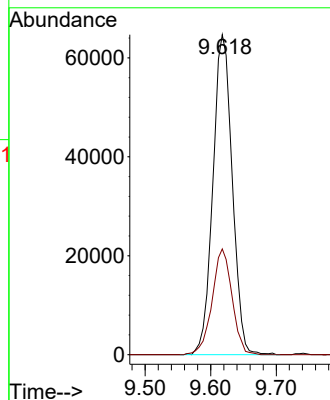
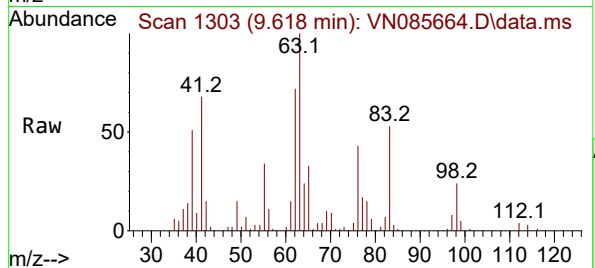
65 33.0 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#46

Dibromomethane

Concen: 49.589 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

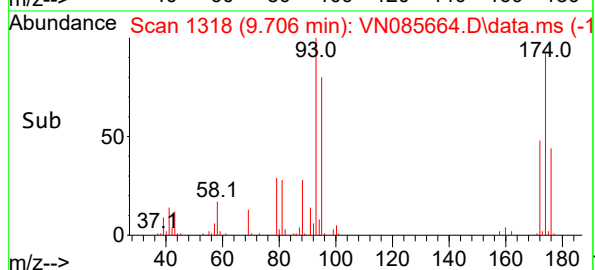
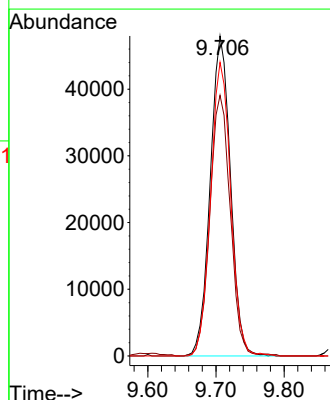
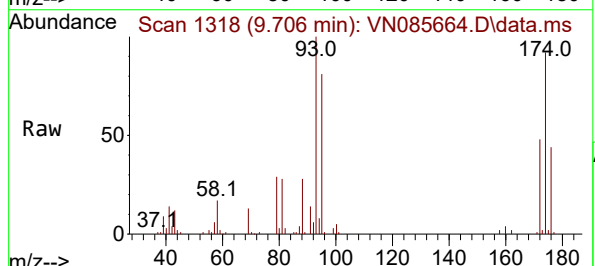
Tgt Ion: 93 Resp: 99179

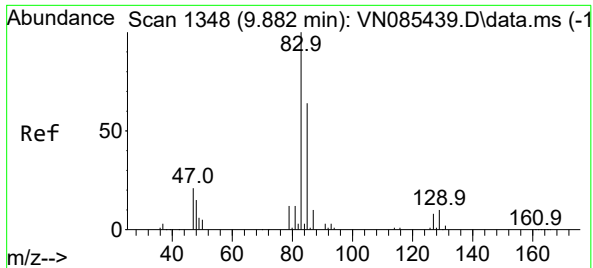
Ion Ratio Lower Upper

93 100

95 81.7 64.7 97.1

174 91.2 69.0 103.4





#47

Bromodichloromethane

Concen: 49.998 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

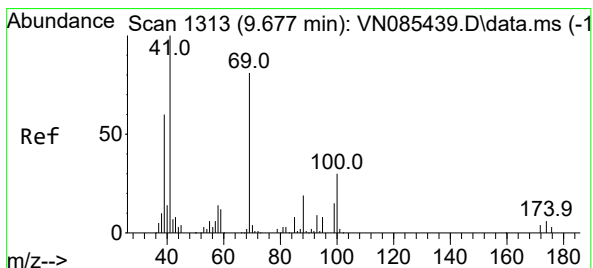
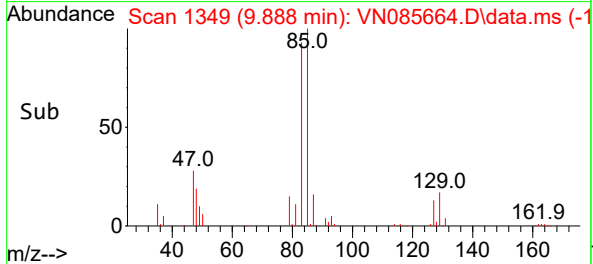
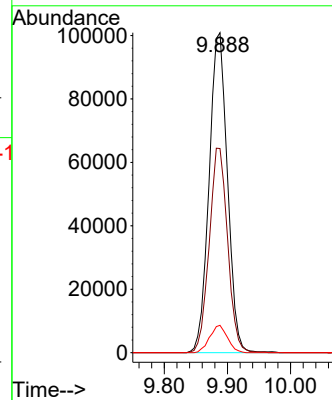
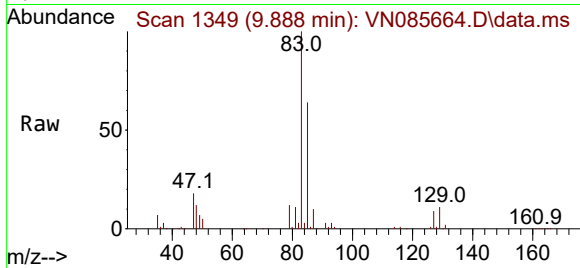
Tgt Ion: 83 Resp: 20372

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.2	76.8
127	8.5	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#48

Methyl methacrylate

Concen: 48.223 ug/l

RT: 9.677 min Scan# 1313

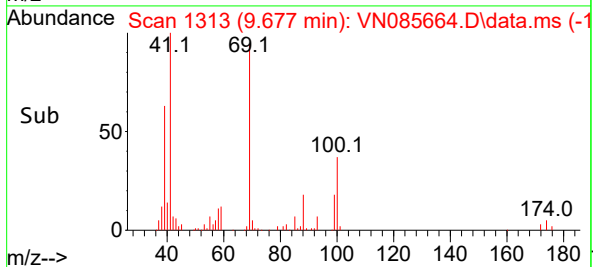
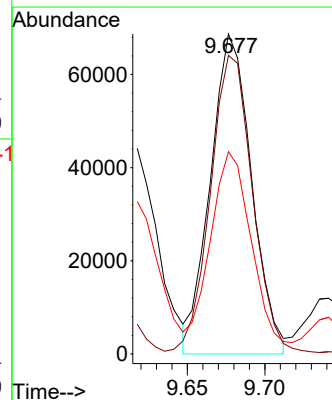
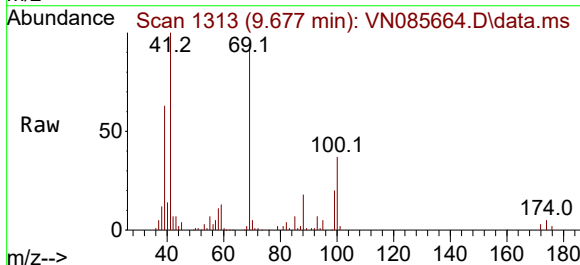
Delta R.T. -0.000 min

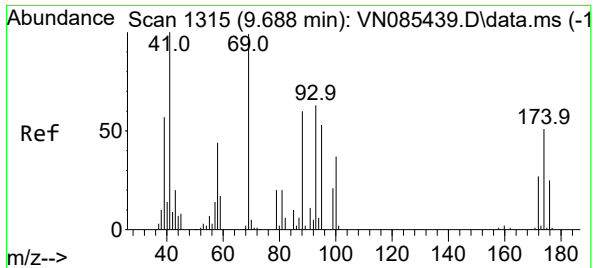
Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Tgt Ion: 41 Resp: 126761

Ion	Ratio	Lower	Upper
41	100		
69	96.7	64.7	97.1
39	64.8	49.0	73.6





#49

1,4-Dioxane

Concen: 1074.167 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDC0050EC

Tgt Ion: 88 Resp: 47549

Ion Ratio Lower Upper

88 100

43 24.9 26.6 39.8

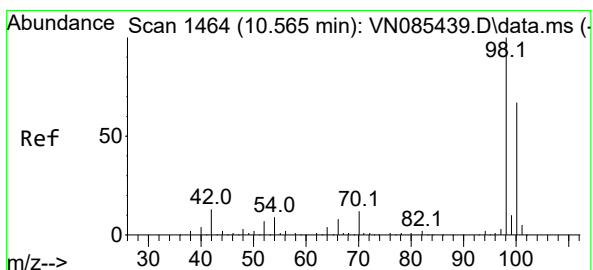
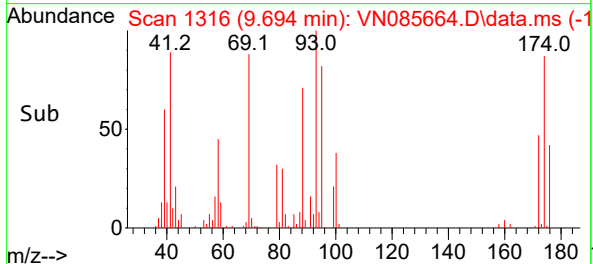
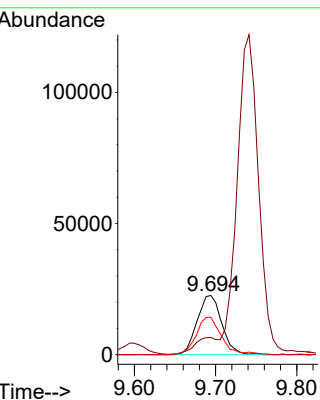
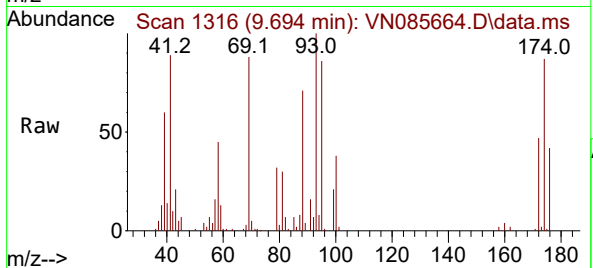
58 65.3 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#50

Toluene-d8

Concen: 48.662 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085664.D

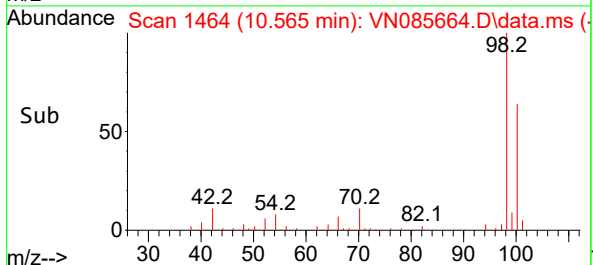
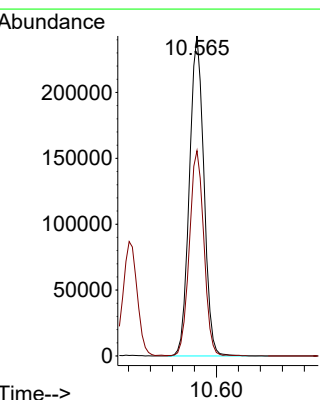
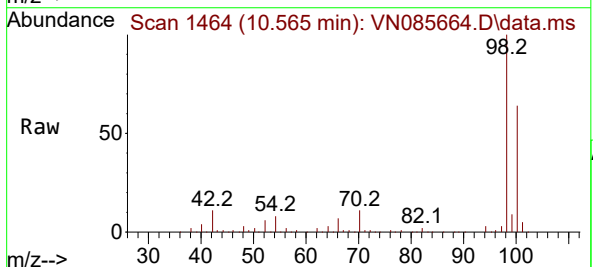
Acq: 04 Feb 2025 20:15

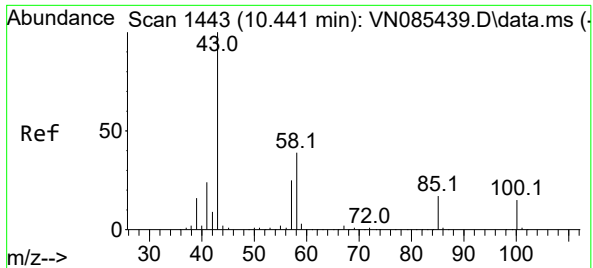
Tgt Ion: 98 Resp: 444909

Ion Ratio Lower Upper

98 100

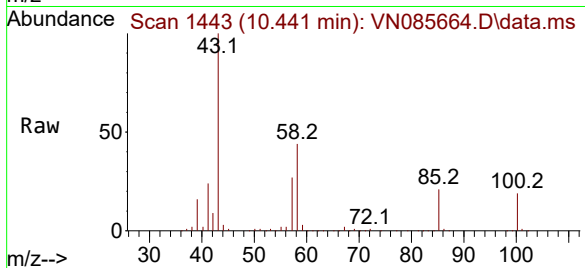
100 64.3 52.2 78.4





#51
4-Methyl-2-Pentanone
Concen: 243.652 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

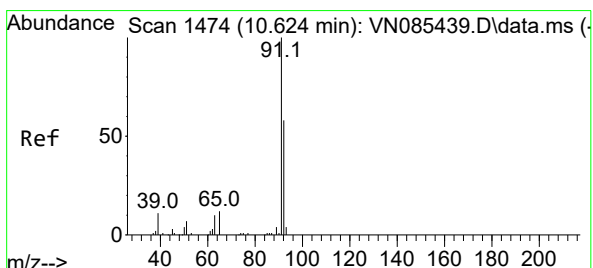
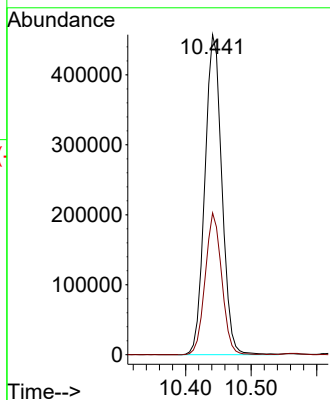
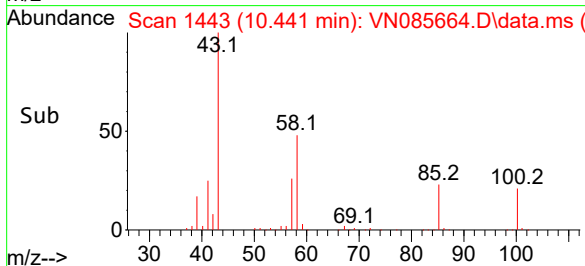
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 43 Resp: 825860
Ion Ratio Lower Upper
43 100
58 43.1 30.5 45.7

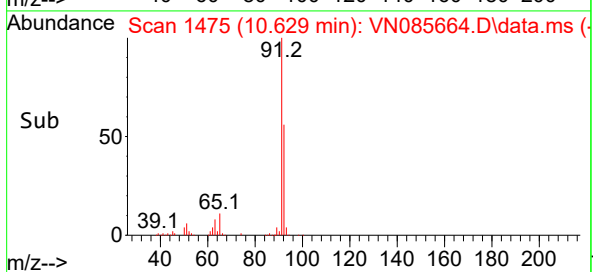
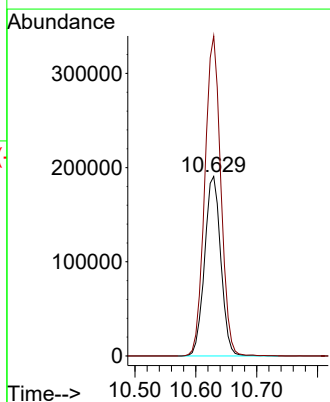
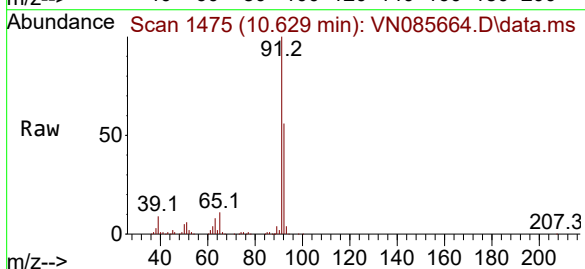
Manual Integrations
APPROVED

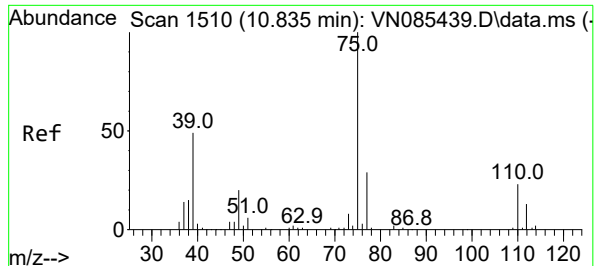
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#52
Toluene
Concen: 56.008 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

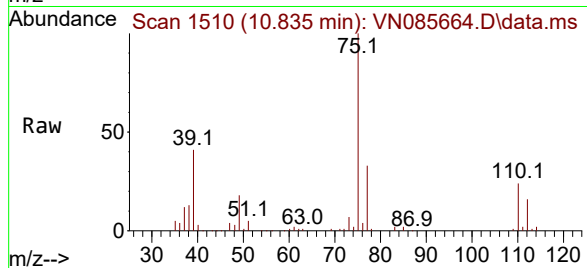
Tgt Ion: 92 Resp: 352156
Ion Ratio Lower Upper
92 100
91 175.8 139.2 208.8





#53
t-1,3-Dichloropropene
Concen: 52.428 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

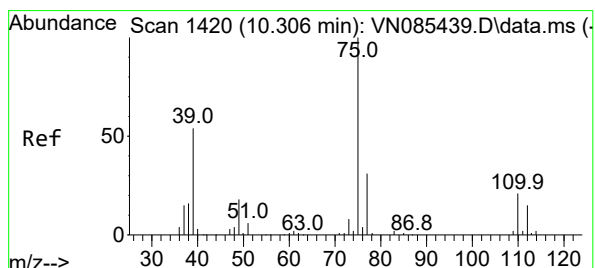
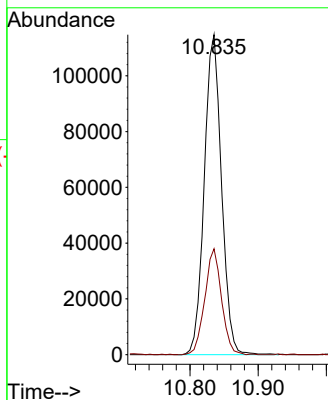
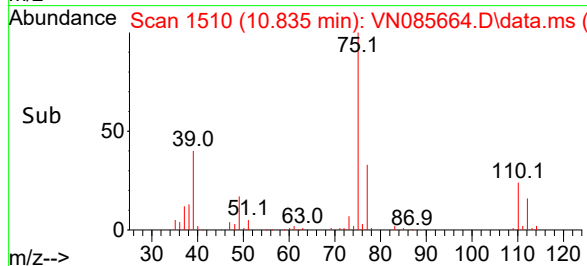
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



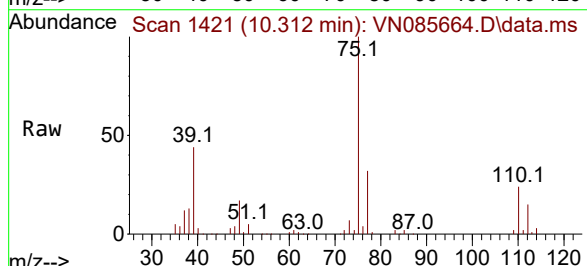
Tgt Ion: 75 Resp: 20188
Ion Ratio Lower Upper
75 100
77 33.1 23.5 35.3

Manual Integrations
APPROVED

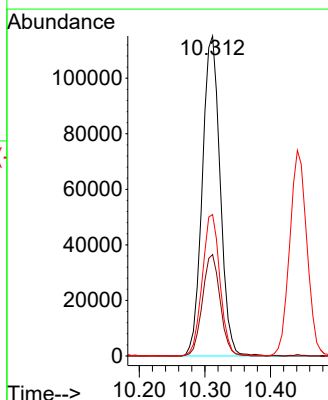
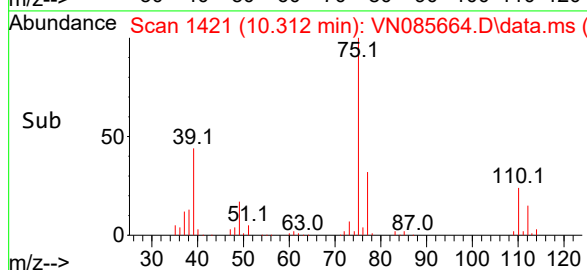
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

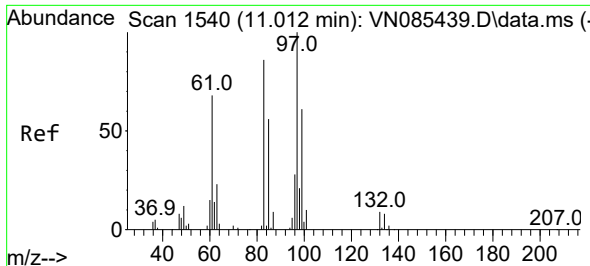


#54
cis-1,3-Dichloropropene
Concen: 52.999 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



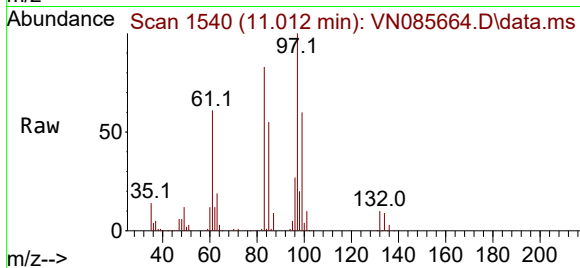
Tgt Ion: 75 Resp: 217990
Ion Ratio Lower Upper
75 100
77 31.7 25.0 37.4
39 44.2 43.1 64.7





#55
1,1,2-Trichloroethane
Concen: 53.443 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

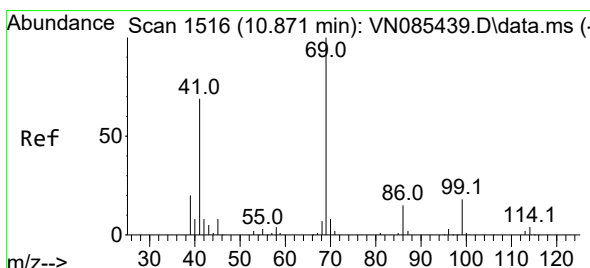
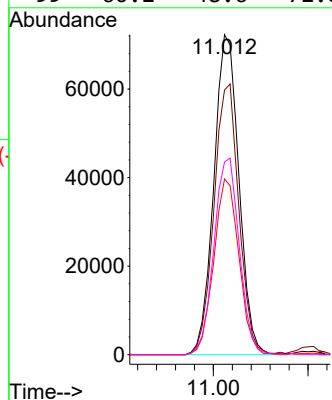
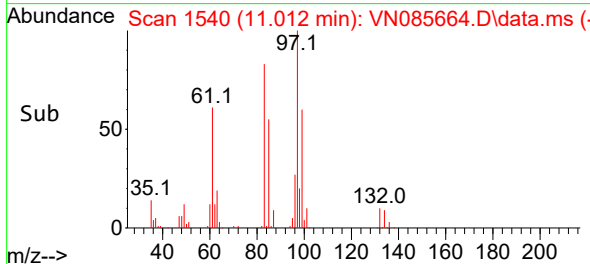
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



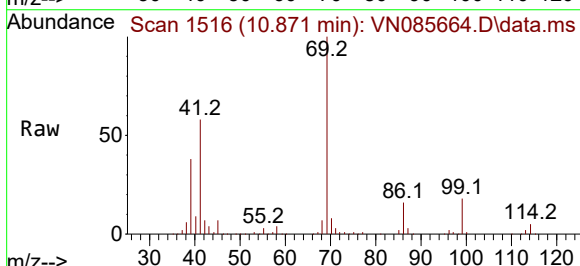
Tgt Ion: 97 Resp: 132983
Ion Ratio Lower Upper
97 100
83 82.7 69.0 103.6
85 54.9 44.6 66.8
99 60.2 48.6 72.8

Manual Integrations
APPROVED

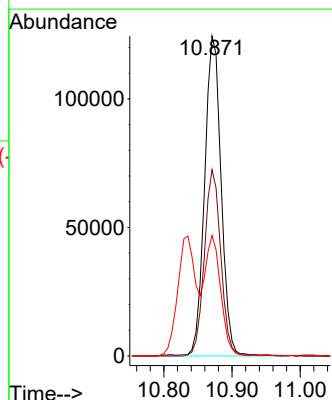
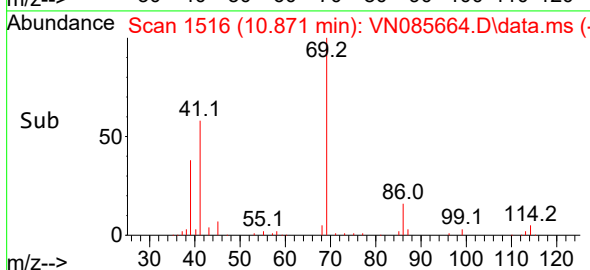
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

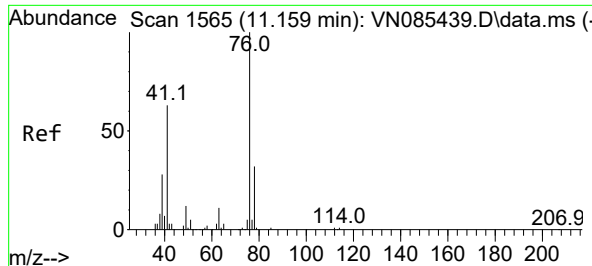


#56
Ethyl methacrylate
Concen: 49.991 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 69 Resp: 209546
Ion Ratio Lower Upper
69 100
41 57.0 54.6 82.0
39 35.7 32.4 48.6





#57

1,3-Dichloropropane

Concen: 52.040 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 225162

Ion Ratio Lower Upper

76 100

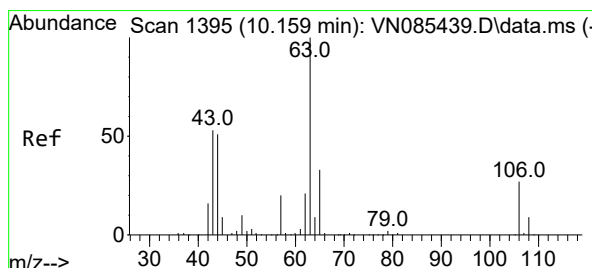
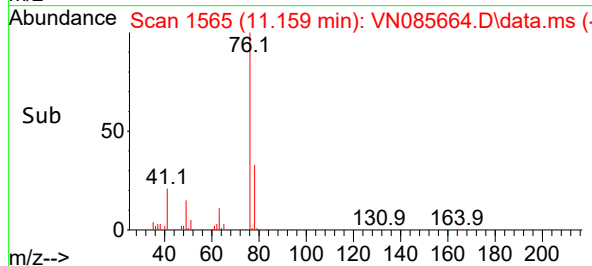
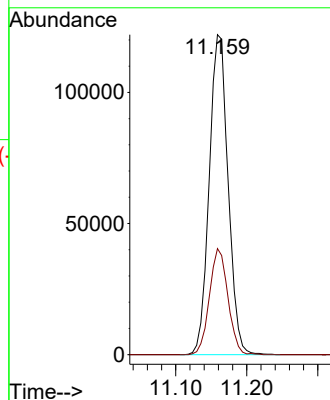
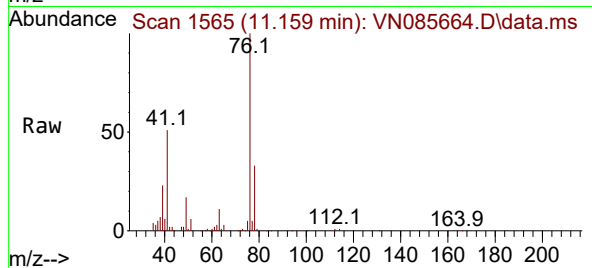
78 32.4 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 195.762 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085664.D

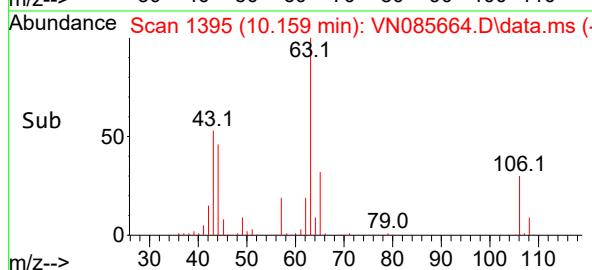
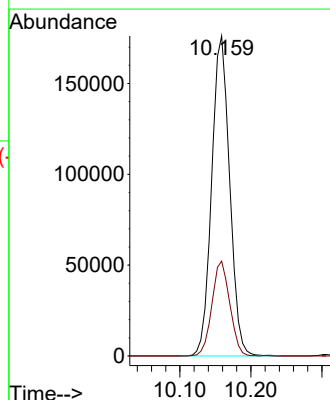
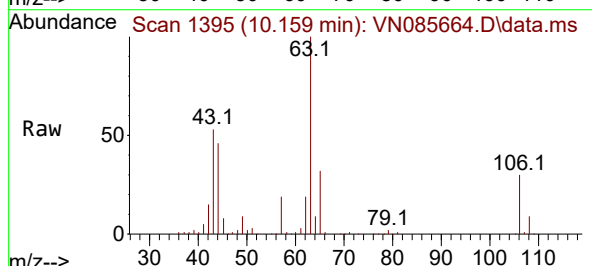
Acq: 04 Feb 2025 20:15

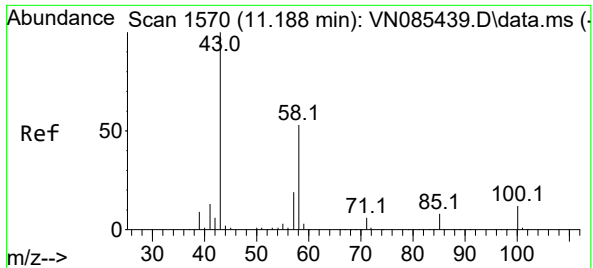
Tgt Ion: 63 Resp: 309122

Ion Ratio Lower Upper

63 100

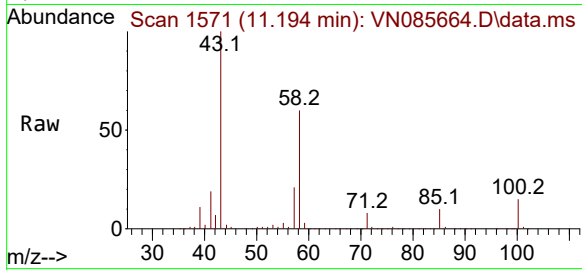
106 29.4 21.6 32.4





#59
2-Hexanone
Concen: 255.240 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

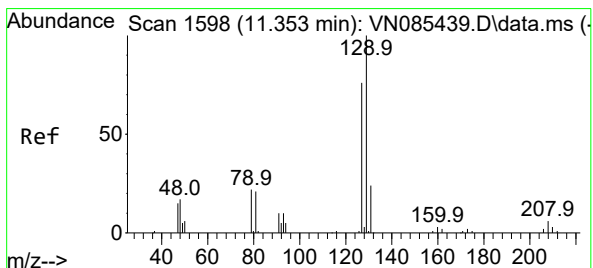
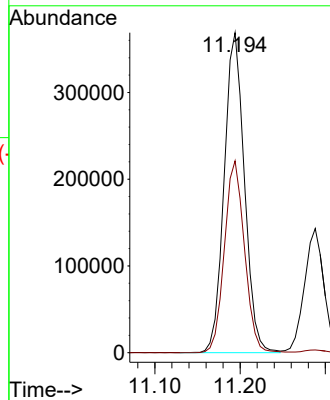
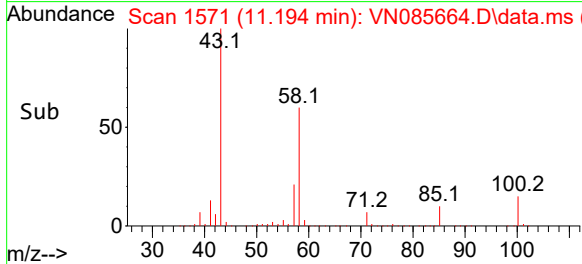
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



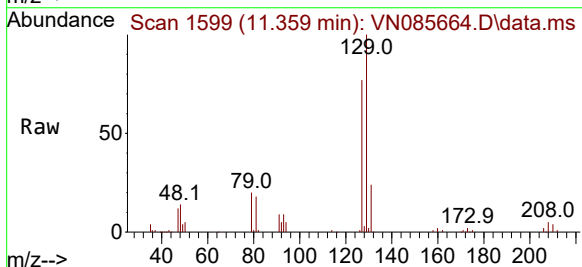
Tgt Ion: 43 Resp: 60874
Ion Ratio Lower Upper
43 100
58 59.5 26.2 78.6

Manual Integrations
APPROVED

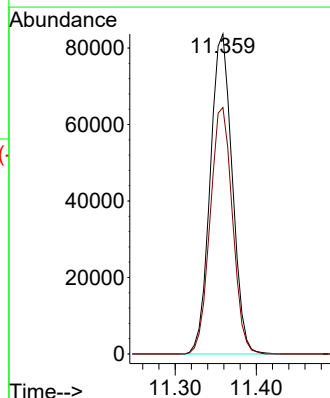
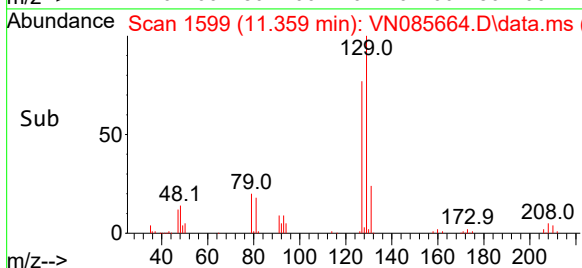
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

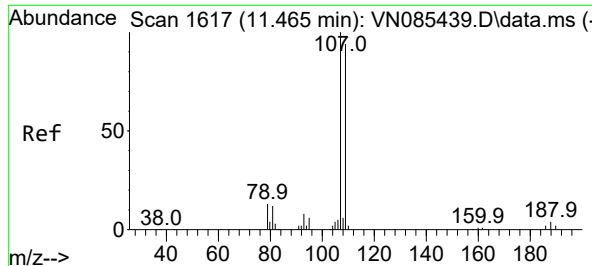


#60
Dibromochloromethane
Concen: 52.516 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



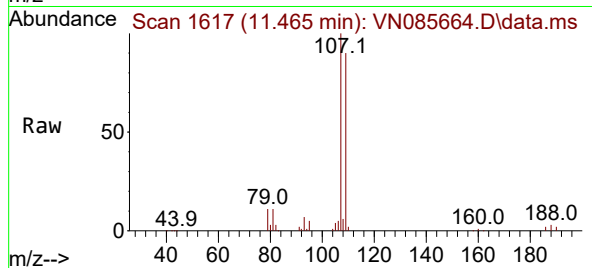
Tgt Ion:129 Resp: 157763
Ion Ratio Lower Upper
129 100
127 77.9 38.6 115.8





#61
1,2-Dibromoethane
Concen: 54.228 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

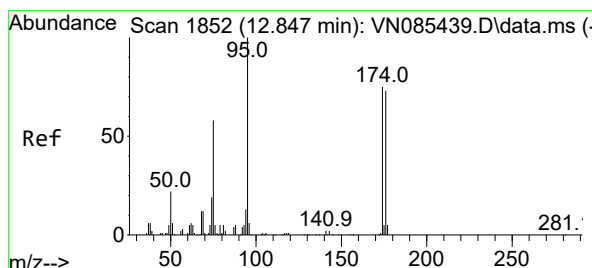
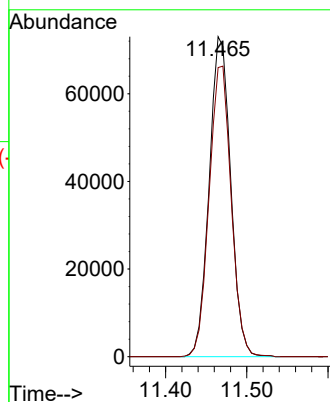
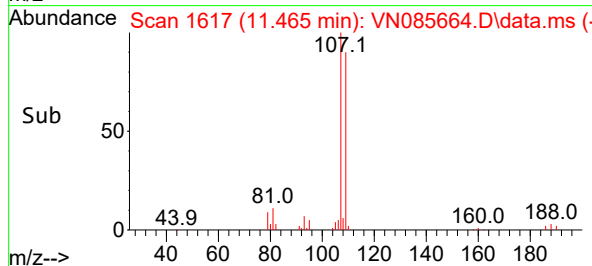
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



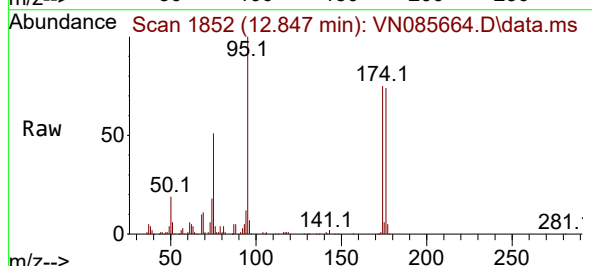
Tgt Ion:107 Resp: 134310
Ion Ratio Lower Upper
107 100
109 93.2 75.9 113.9

Manual Integrations
APPROVED

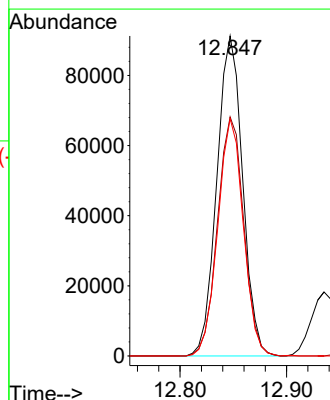
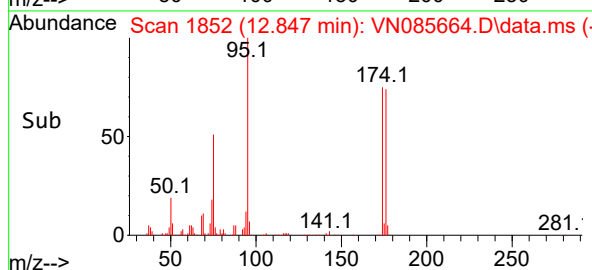
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

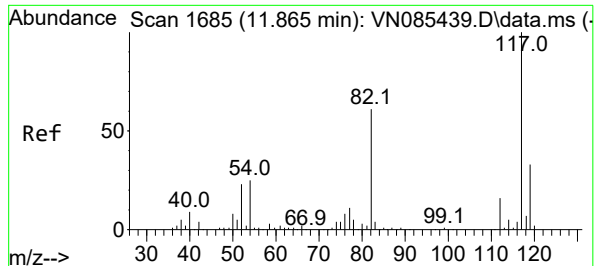


#62
4-Bromofluorobenzene
Concen: 48.969 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 95 Resp: 153154
Ion Ratio Lower Upper
95 100
174 76.0 0.0 145.0
176 73.6 0.0 142.4





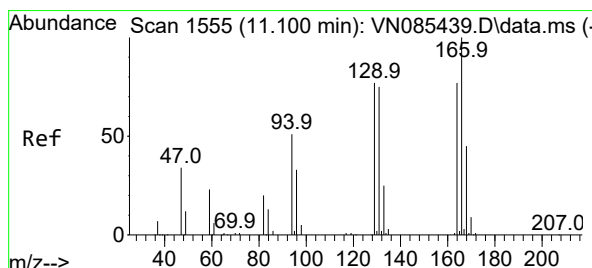
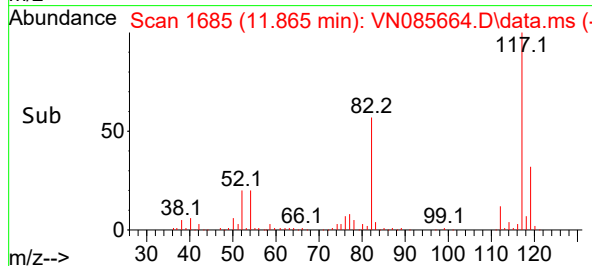
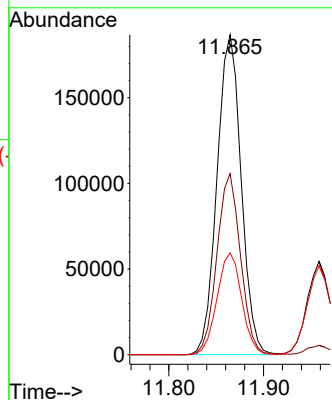
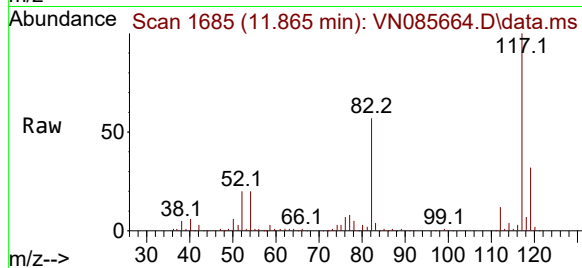
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 331235
Ion Ratio Lower Upper
117 100
82 56.6 48.6 72.8
119 31.8 26.6 39.8

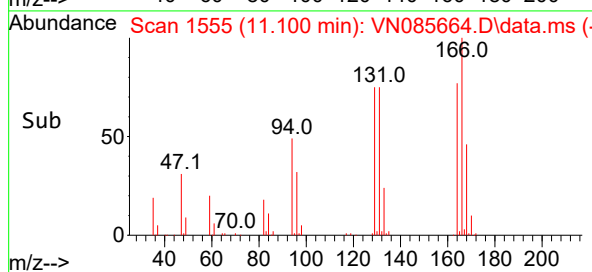
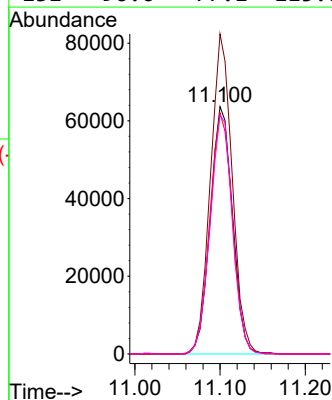
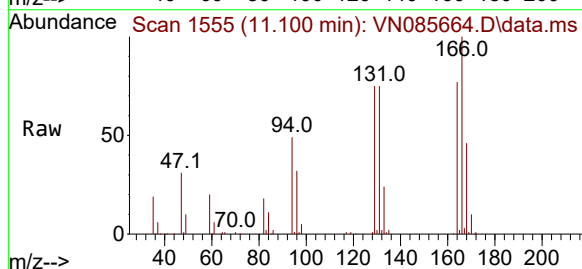
Manual Integrations
APPROVED

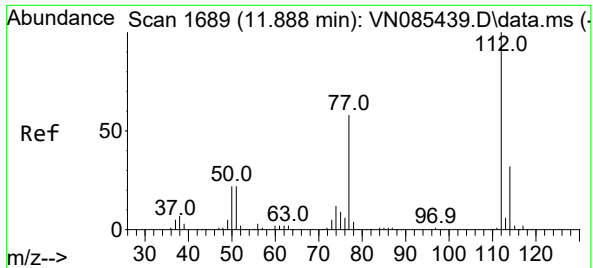
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#64
Tetrachloroethene
Concen: 51.189 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:164 Resp: 115593
Ion Ratio Lower Upper
164 100
166 129.4 103.4 155.2
129 97.4 79.2 118.8
131 96.6 77.1 115.7





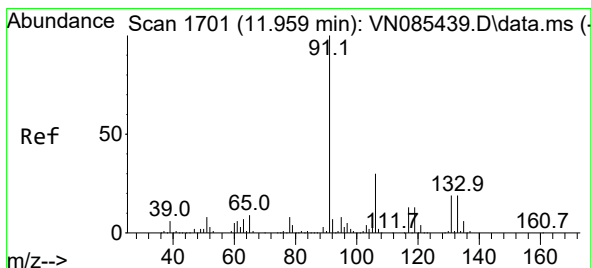
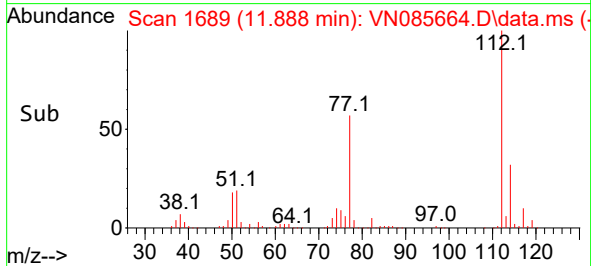
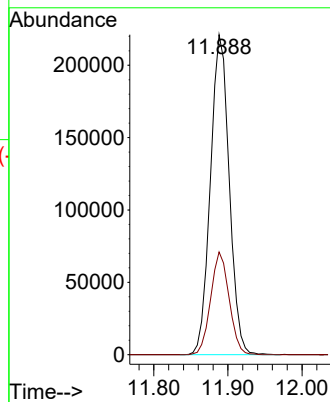
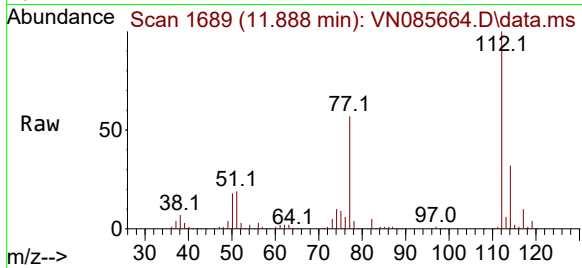
#65
Chlorobenzene
Concen: 53.668 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 38943
Ion Ratio Lower Upper
112 100
114 32.1 25.3 37.9

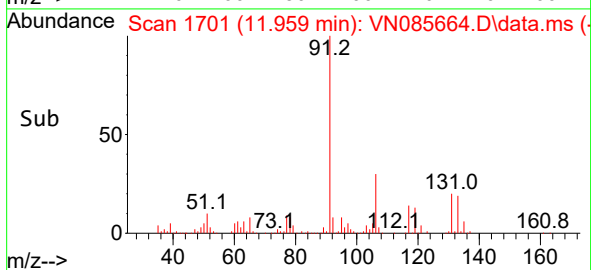
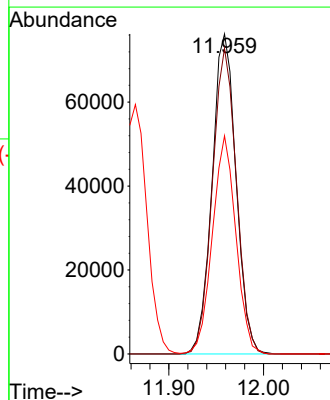
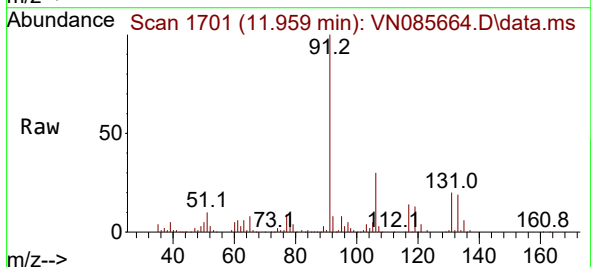
Manual Integrations
APPROVED

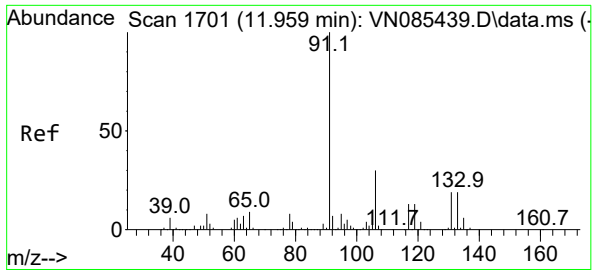
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.402 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

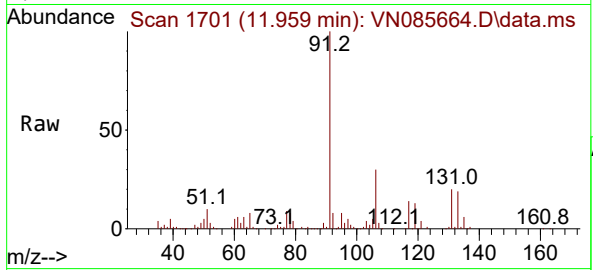
Tgt Ion:131 Resp: 134229
Ion Ratio Lower Upper
131 100
133 95.8 47.4 142.3
119 66.9 33.1 99.5





#67
Ethyl Benzene
Concen: 55.928 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

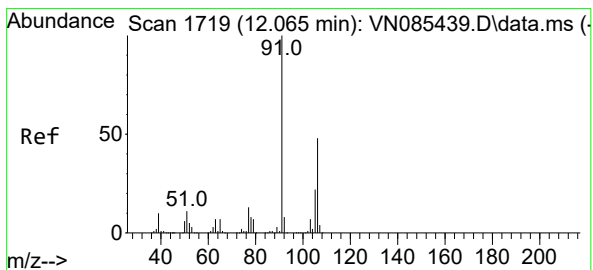
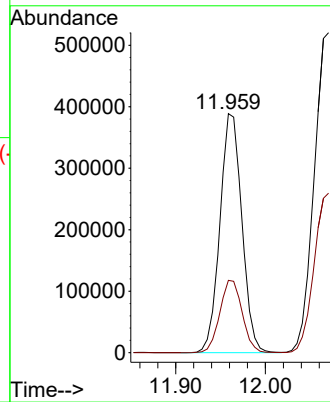
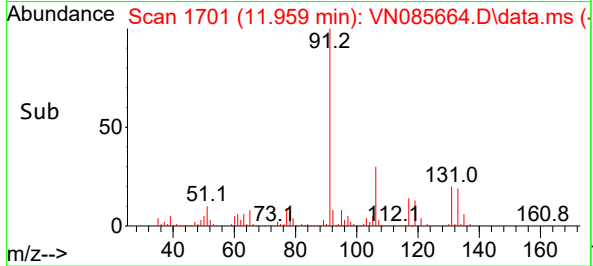
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 91 Resp: 660992
Ion Ratio Lower Upper
91 100
106 30.2 23.8 35.8

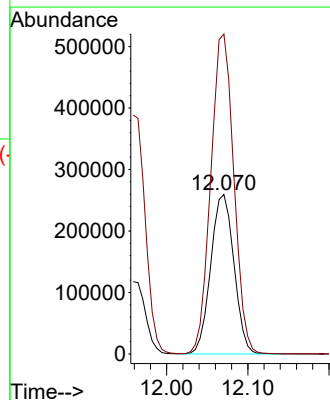
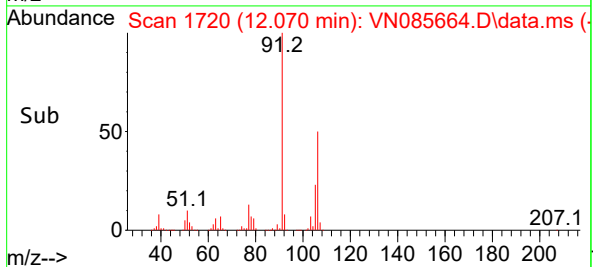
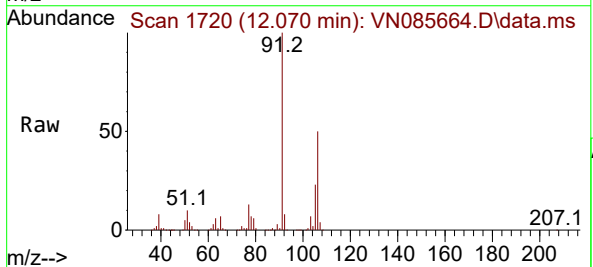
Manual Integrations
APPROVED

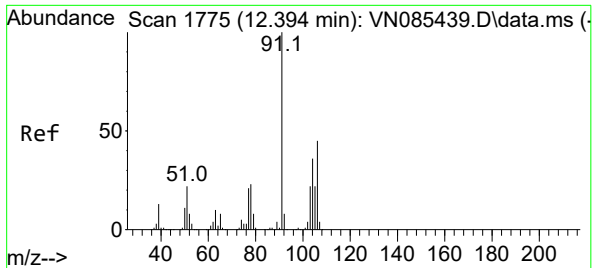
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#68
m/p-Xylenes
Concen: 118.079 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

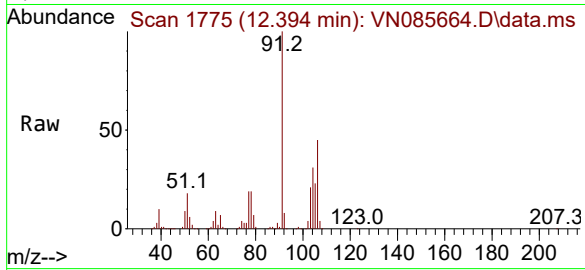
Tgt Ion:106 Resp: 515763
Ion Ratio Lower Upper
106 100
91 199.0 167.7 251.5





#69
o-Xylene
Concen: 58.761 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

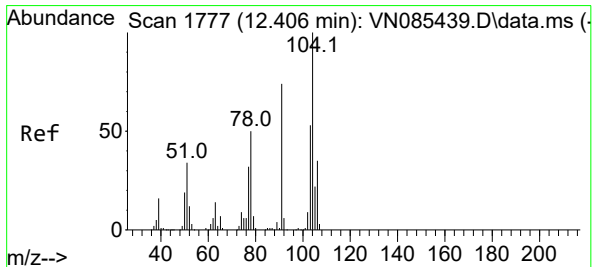
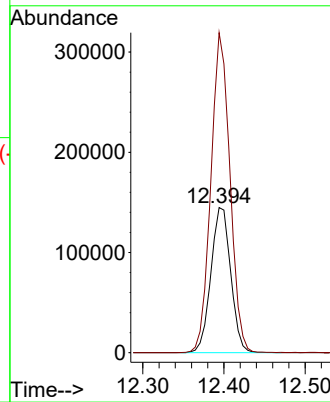
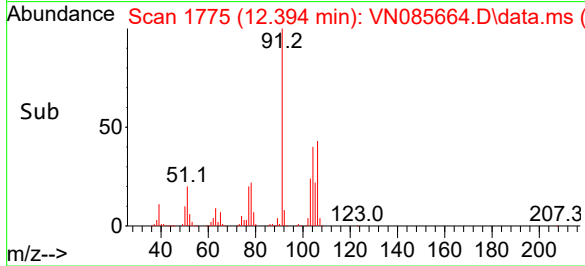
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:106 Resp: 245280
Ion Ratio Lower Upper
106 100
91 212.6 110.4 331.2

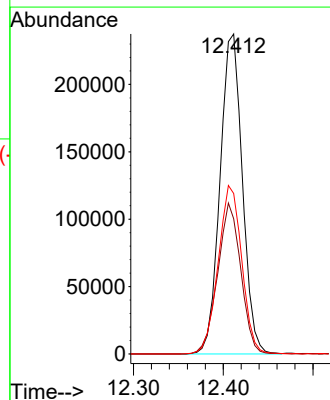
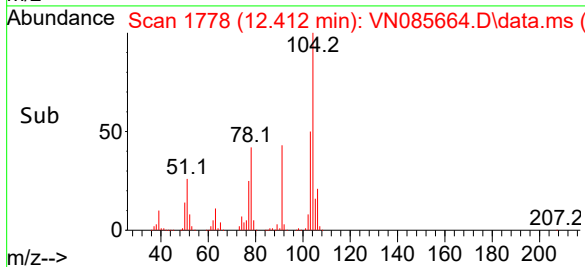
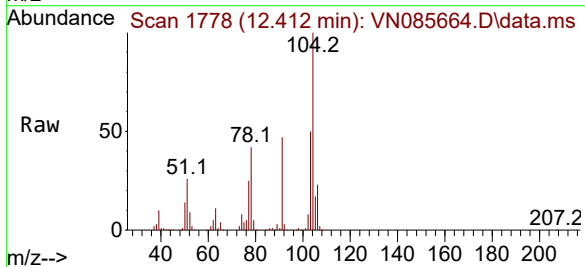
Manual Integrations
APPROVED

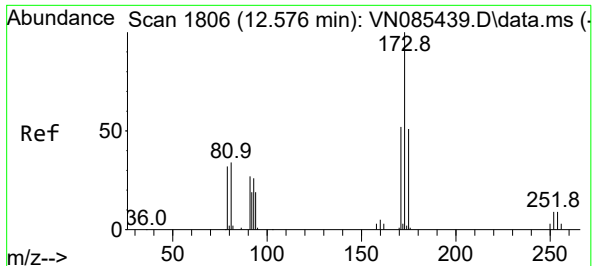
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#70
Styrene
Concen: 59.359 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

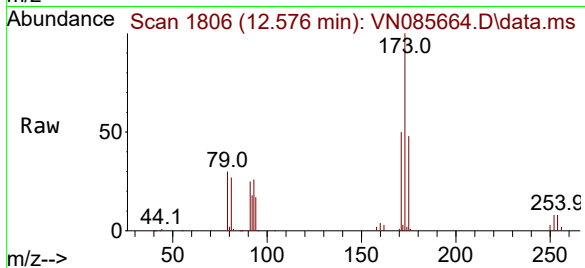
Tgt Ion:104 Resp: 410076
Ion Ratio Lower Upper
104 100
78 48.9 42.5 63.7
103 55.8 43.8 65.8





#71
Bromoform
Concen: 54.323 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

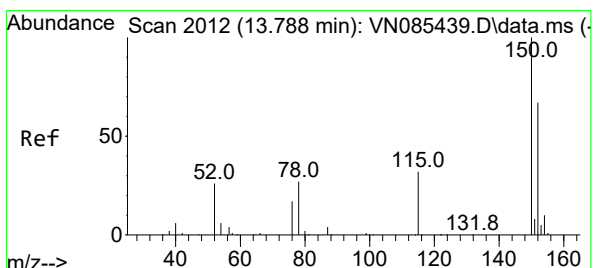
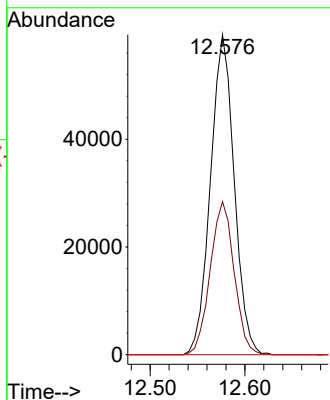
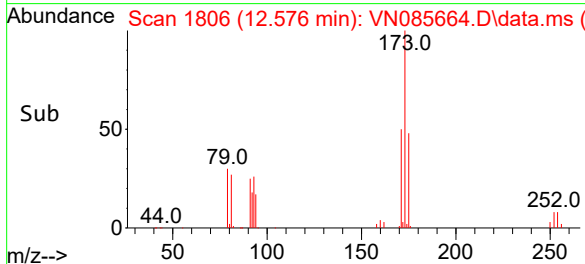
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



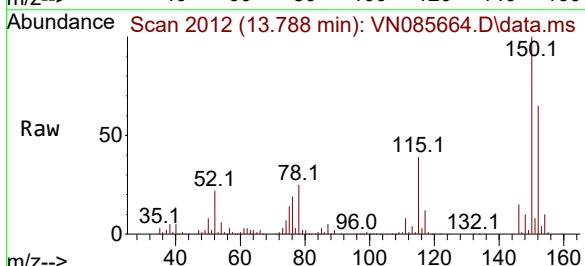
Tgt Ion:173 Resp: 10351
Ion Ratio Lower Upper
173 100
175 48.2 24.4 73.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

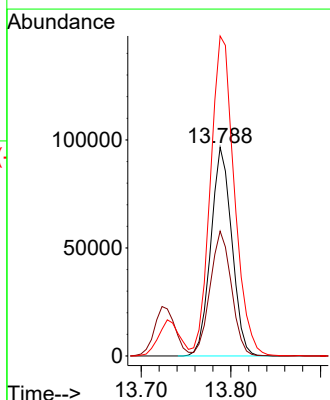
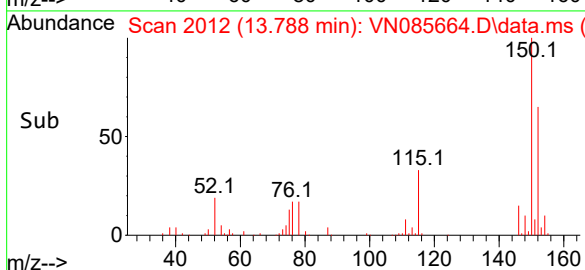
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

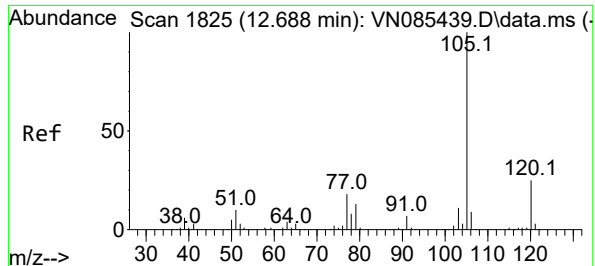


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion:152 Resp: 156927
Ion Ratio Lower Upper
152 100
115 60.6 31.1 93.3
150 174.4 0.0 343.6





#73

Isopropylbenzene

Concen: 57.650 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:105 Resp: 610580

Ion Ratio Lower Upper

105 100

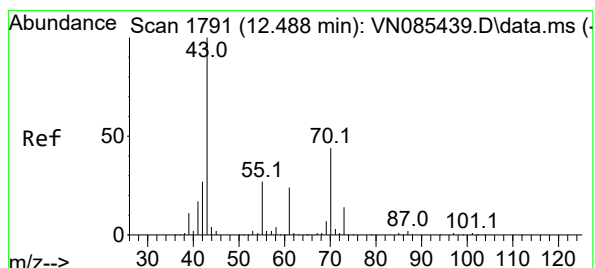
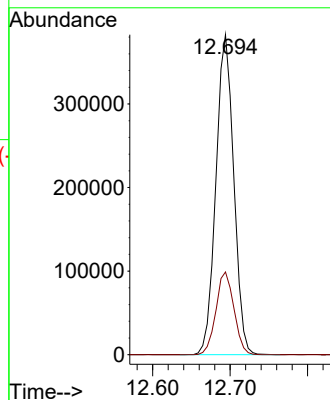
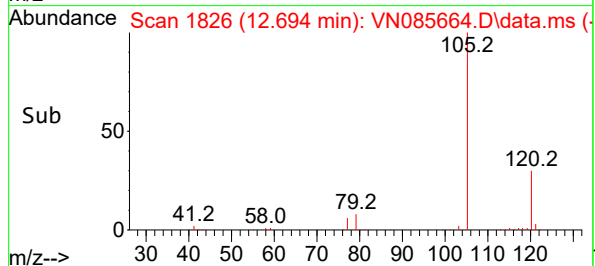
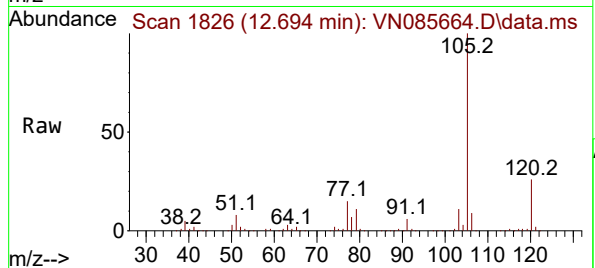
120 26.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#74

N-ethyl acetate

Concen: 50.296 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Tgt Ion: 43 Resp: 239434

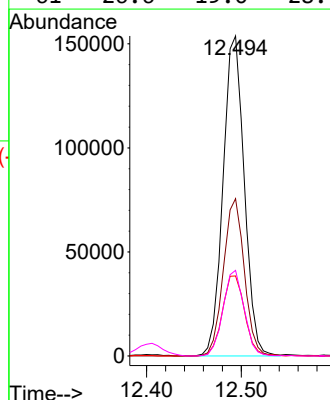
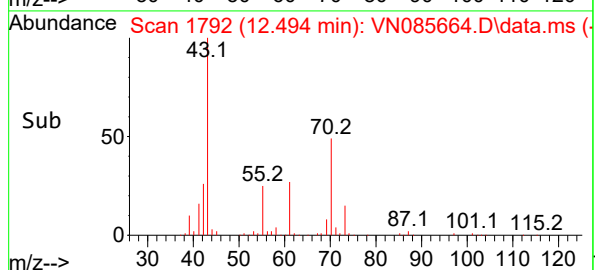
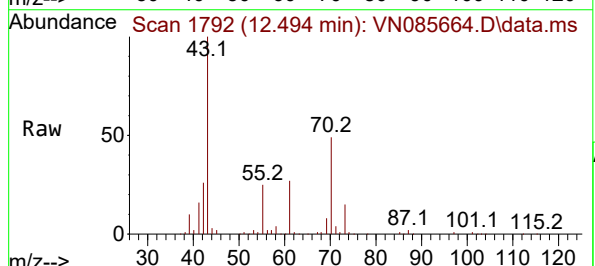
Ion Ratio Lower Upper

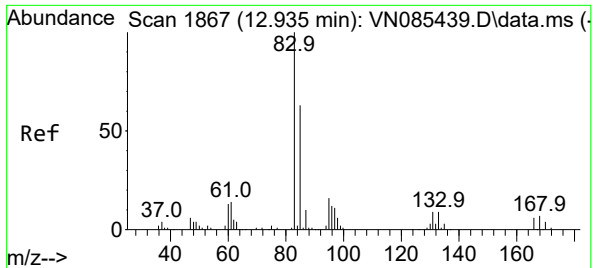
43 100

70 48.7 34.0 51.0

55 26.4 21.4 32.2

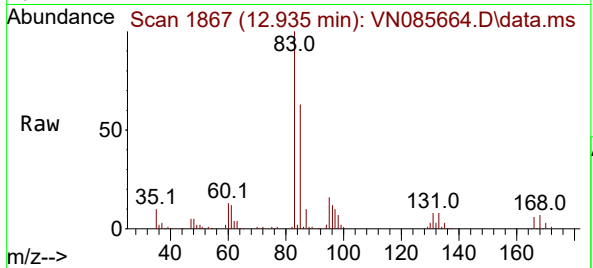
61 26.6 19.0 28.4





#75
1,1,2,2-Tetrachloroethane
Concen: 51.261 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

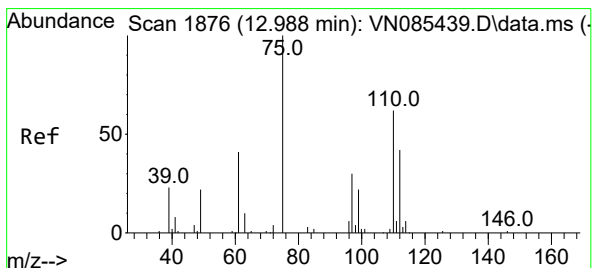
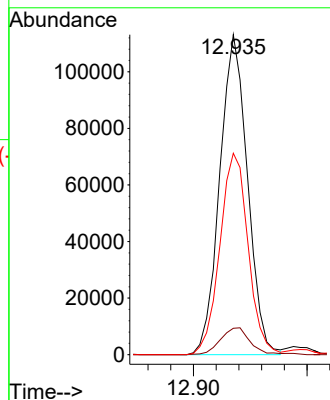
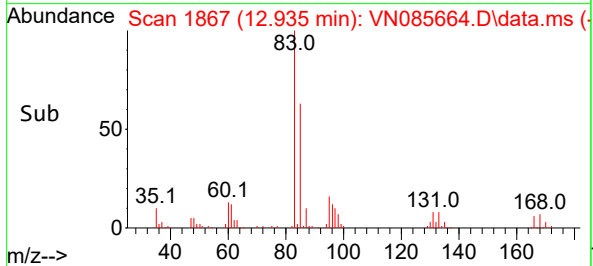
Instrument :
MSVOA_N
ClientSampleId :
VSTDC050EC



Tgt Ion: 83 Resp: 19178
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.4
85 64.1 32.2 96.6

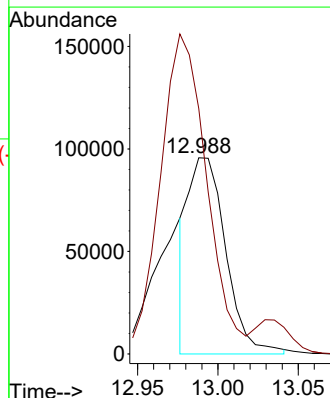
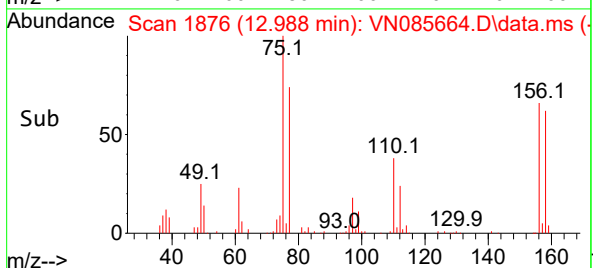
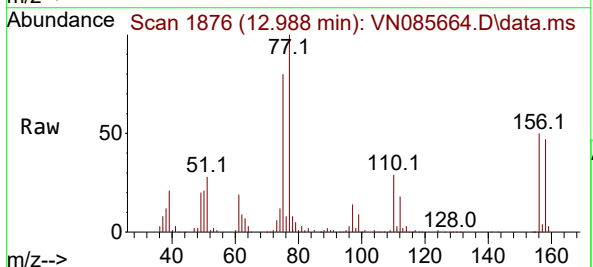
Manual Integrations
APPROVED

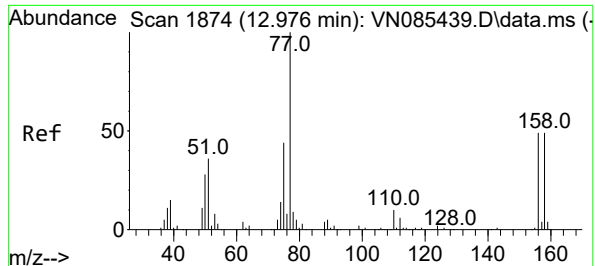
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#76
1,2,3-Trichloropropane
Concen: 48.784 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 75 Resp: 155602
Ion Ratio Lower Upper
75 100
77 202.1 109.7 329.2





#77

Bromobenzene

Concen: 53.229 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085664.D

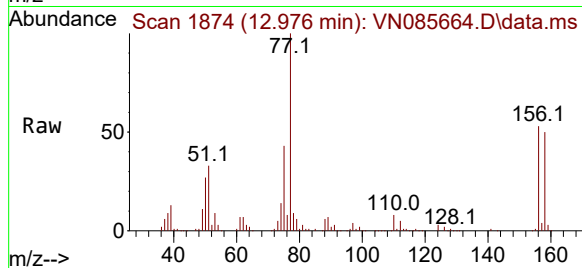
Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



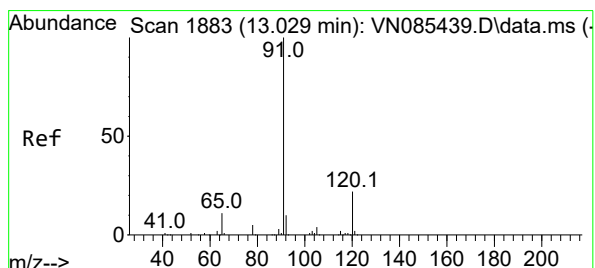
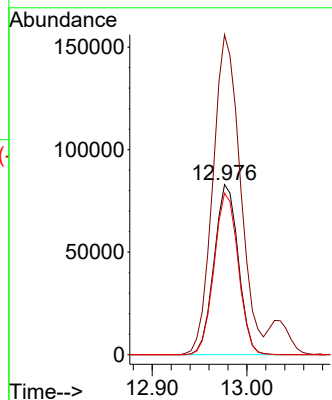
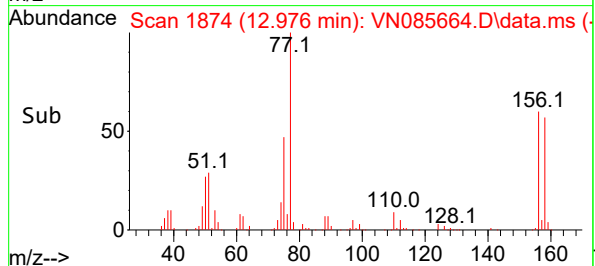
Tgt Ion:156 Resp: 14729

Ion	Ratio	Lower	Upper
156	100		
77	213.5	114.1	342.4
158	94.8	48.9	146.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#78

n-propylbenzene

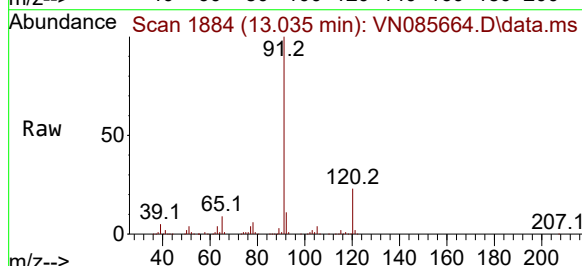
Concen: 55.269 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

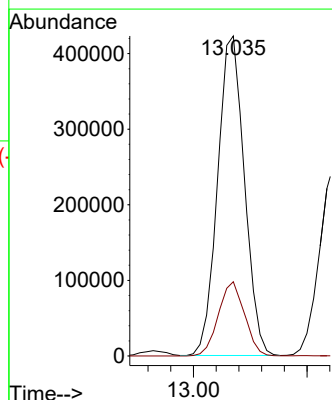
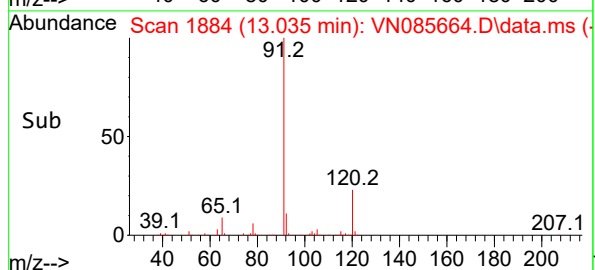
Lab File: VN085664.D

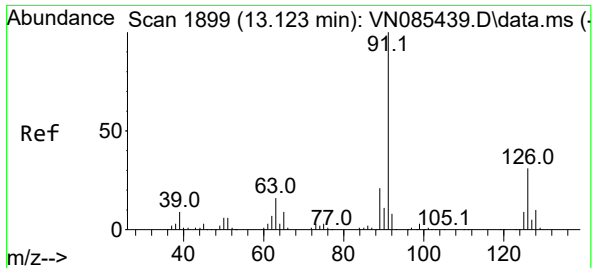
Acq: 04 Feb 2025 20:15



Tgt Ion: 91 Resp: 692980

Ion	Ratio	Lower	Upper
91	100		
120	22.6	10.9	32.6





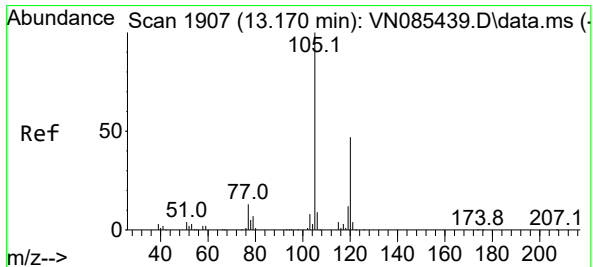
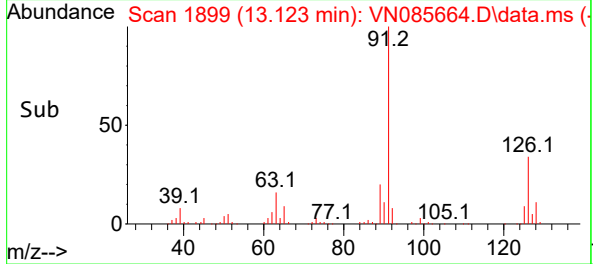
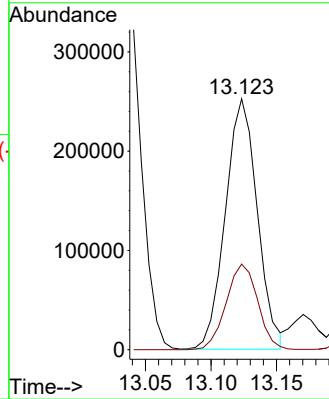
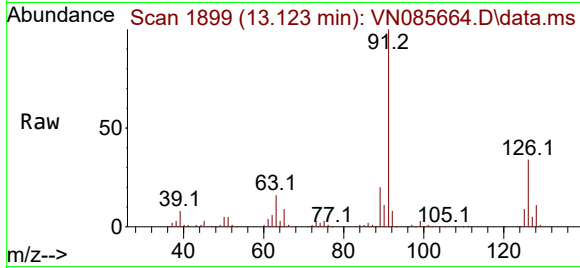
#79
2-Chlorotoluene
Concen: 52.647 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 427210
Ion Ratio Lower Upper
91 100
126 33.8 15.7 47.1

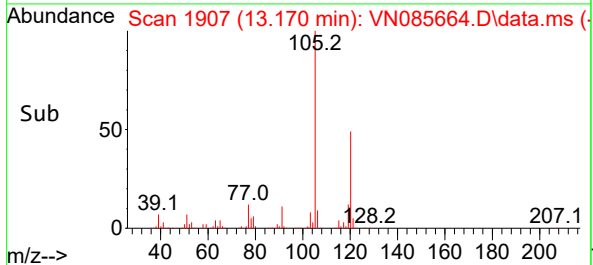
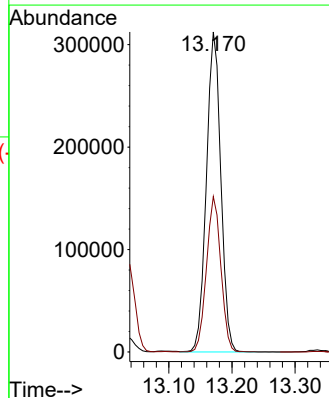
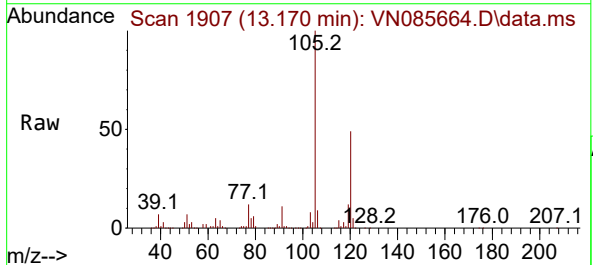
Manual Integrations
APPROVED

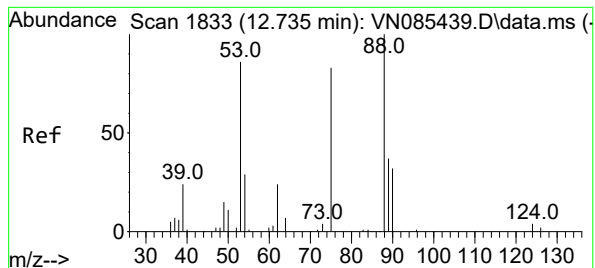
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#80
1,3,5-Trimethylbenzene
Concen: 56.764 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

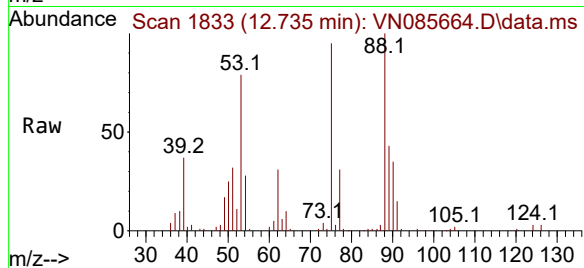
Tgt Ion:105 Resp: 496596
Ion Ratio Lower Upper
105 100
120 48.4 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 56.737 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

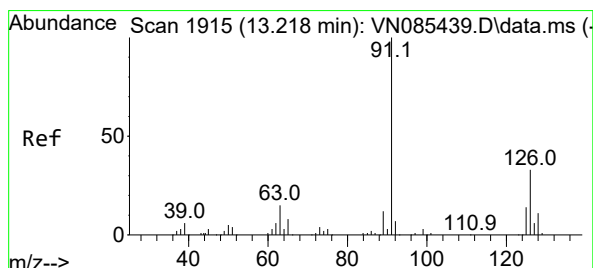
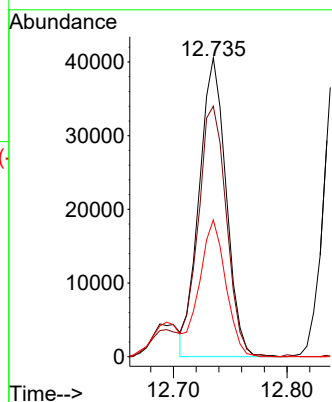
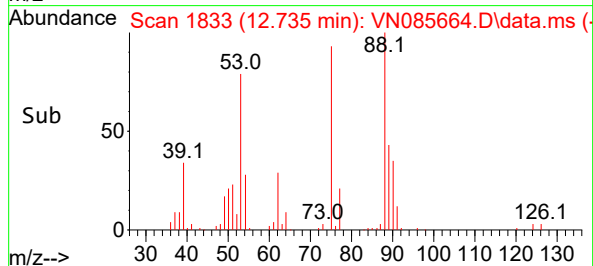
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



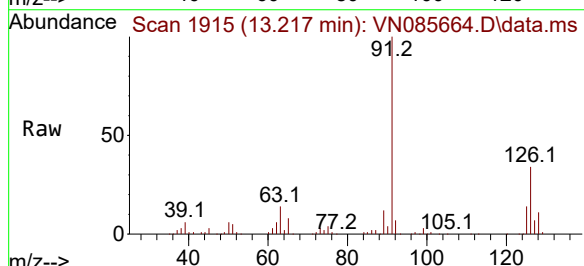
Tgt Ion: 75 Resp: 6688
Ion Ratio Lower Upper
75 100
53 97.3 95.6 143.4
89 45.1 37.0 55.6

Manual Integrations
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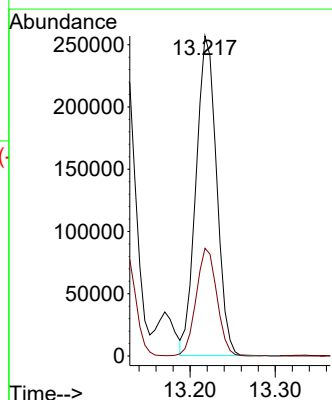
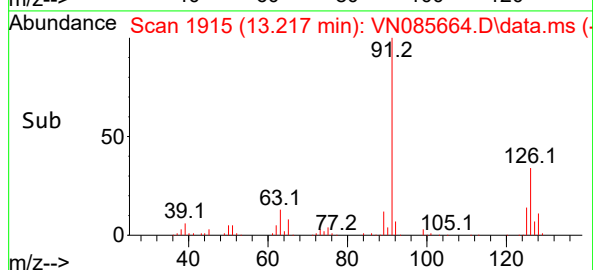
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

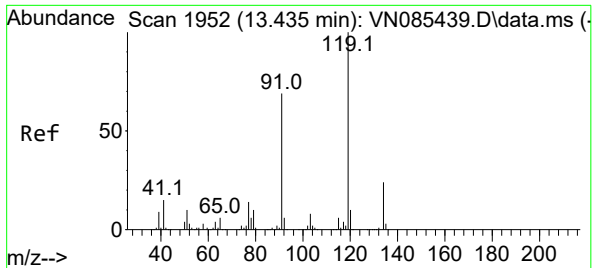


#82
4-Chlorotoluene
Concen: 53.134 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 91 Resp: 429304
Ion Ratio Lower Upper
91 100
126 34.0 15.9 47.7





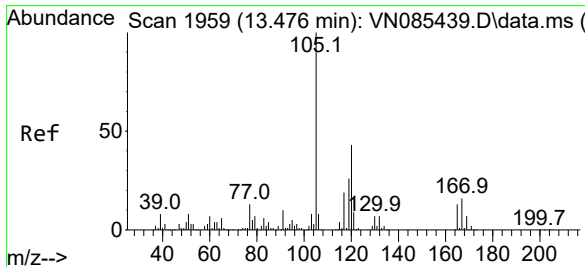
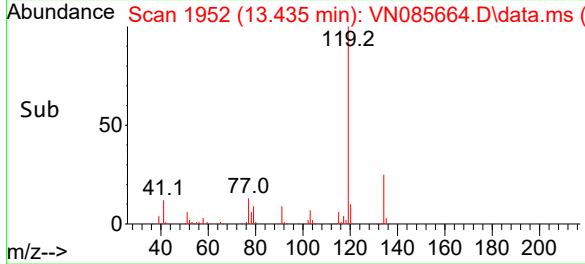
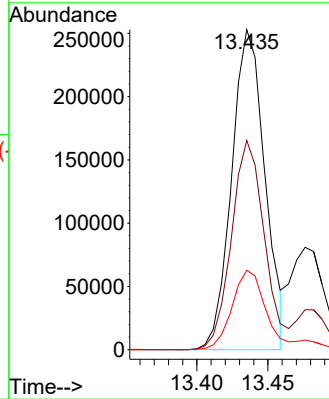
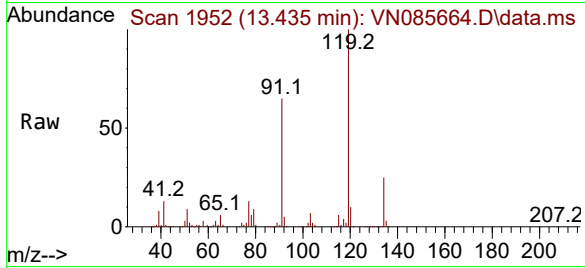
#83
tert-Butylbenzene
Concen: 56.016 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 411529
Ion Ratio Lower Upper
119 100
91 65.1 35.1 105.3
134 27.1 12.0 36.1

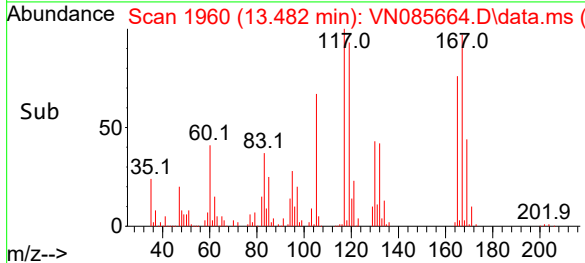
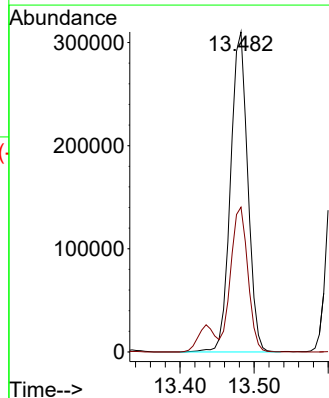
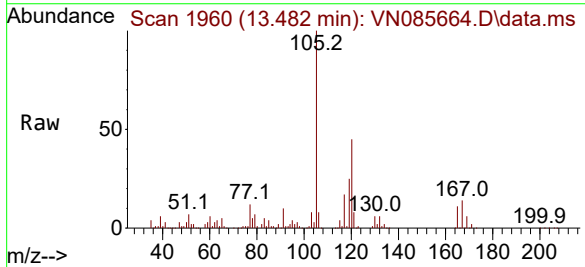
Manual Integrations
APPROVED

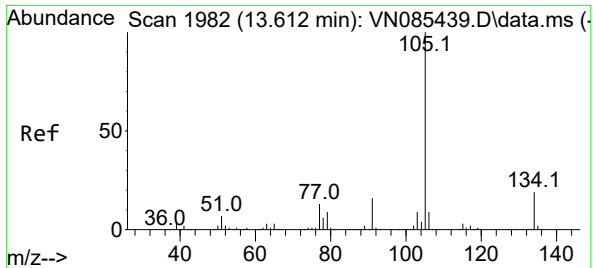
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#84
1,2,4-Trimethylbenzene
Concen: 57.240 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

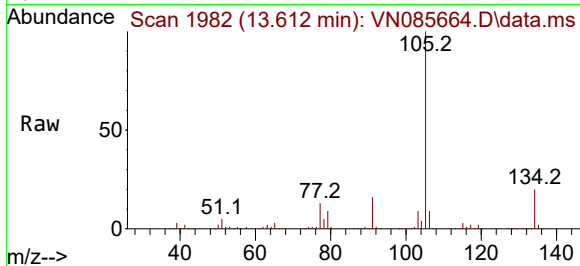
Tgt Ion:105 Resp: 499092
Ion Ratio Lower Upper
105 100
120 45.0 21.6 65.0





#85
 sec-Butylbenzene
 Concen: 55.962 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

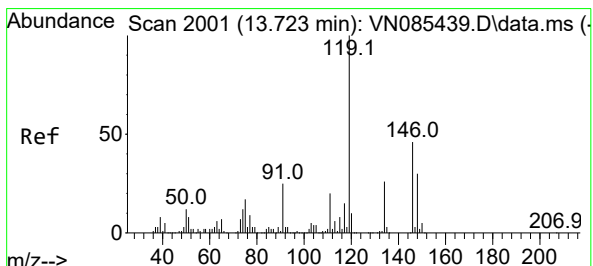
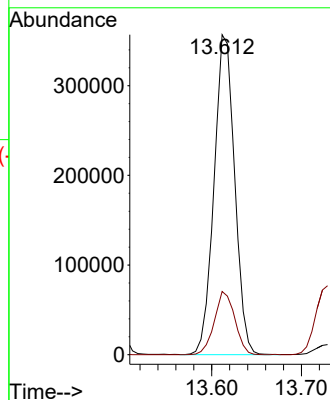
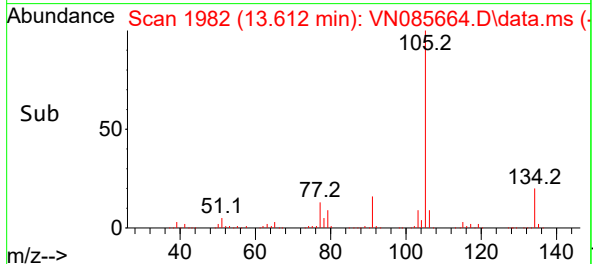
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC



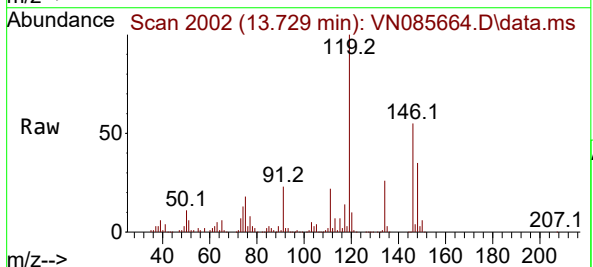
Tgt Ion:105 Resp: 569818
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.7 28.9

Manual Integrations
 APPROVED

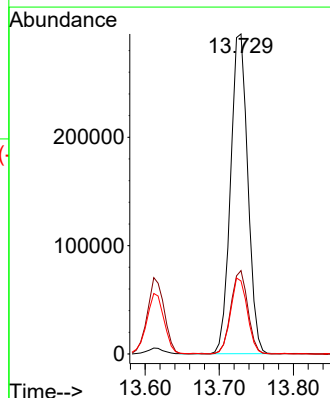
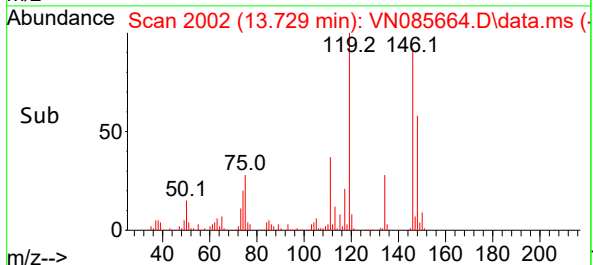
Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

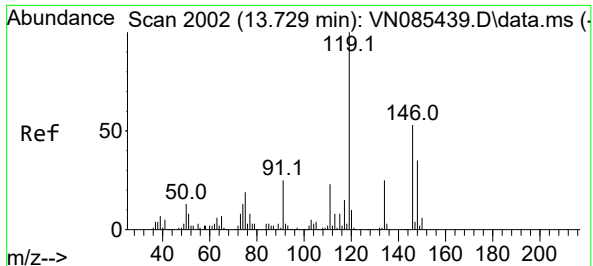


#86
 p-Isopropyltoluene
 Concen: 51.682 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15



Tgt Ion:119 Resp: 475841
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.7 38.0
 91 23.1 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 51.961 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:146 Resp: 264789

Ion Ratio Lower Upper

146 100

111 41.7 21.4 64.3

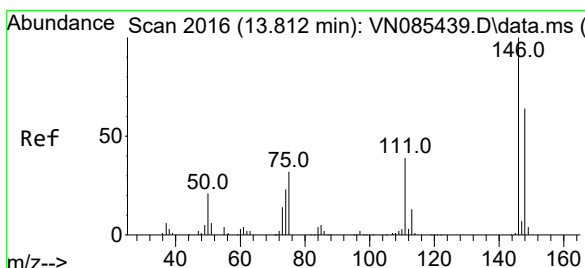
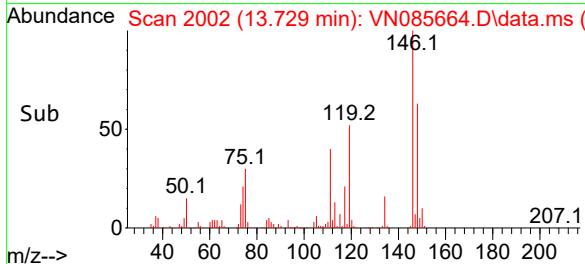
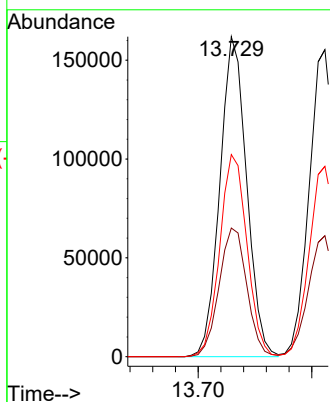
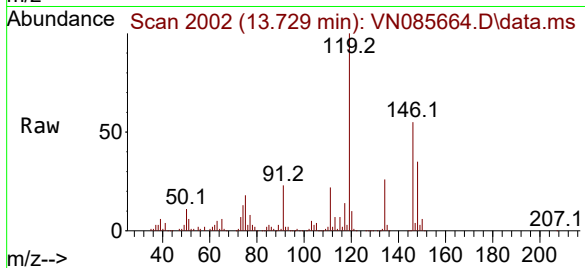
148 64.4 32.3 96.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#88

1,4-Dichlorobenzene

Concen: 49.616 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

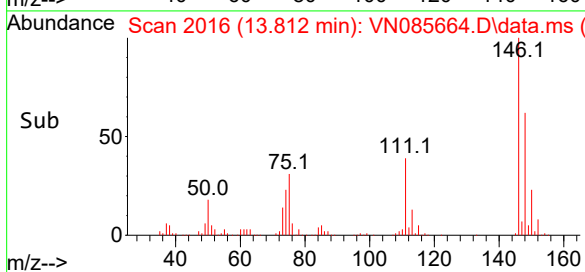
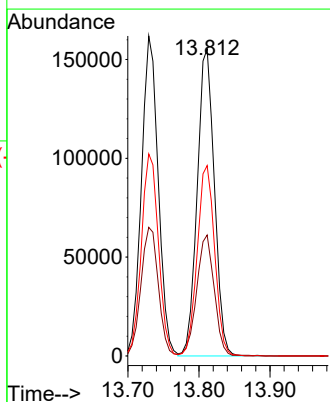
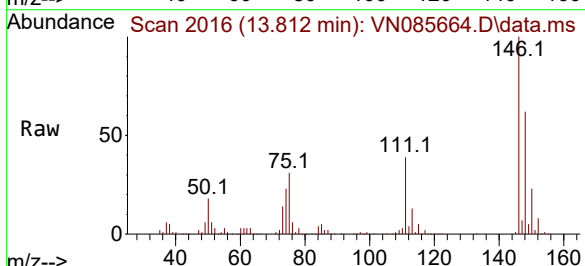
Tgt Ion:146 Resp: 262072

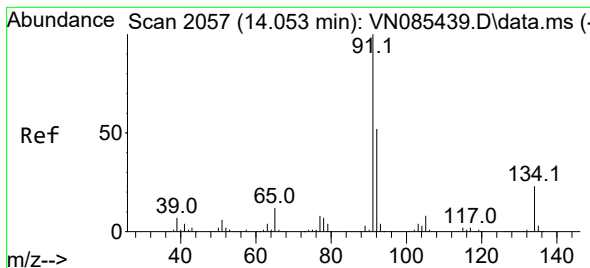
Ion Ratio Lower Upper

146 100

111 39.7 21.3 63.7

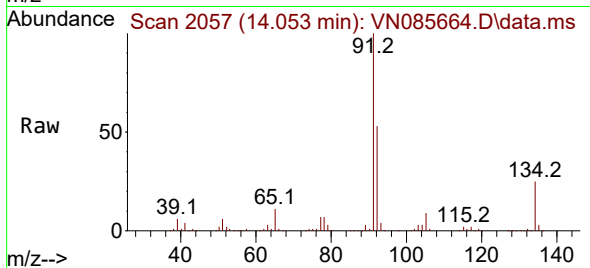
148 62.9 32.4 97.0





#89
n-Butylbenzene
Concen: 52.399 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

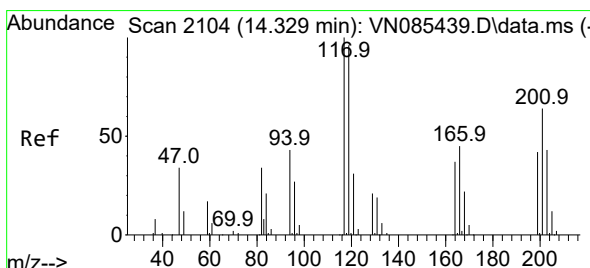
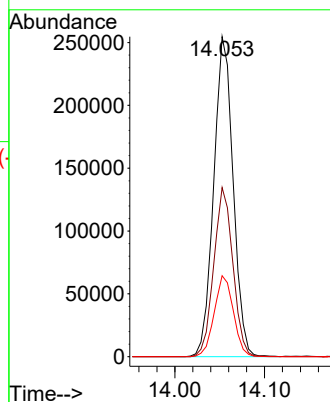
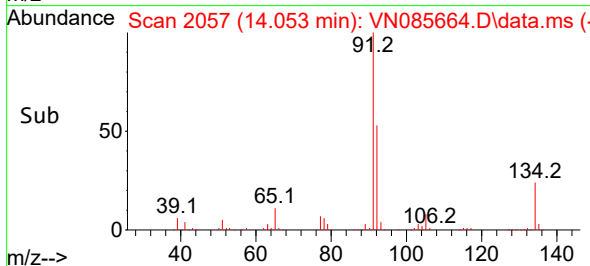
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 91 Resp: 382769
Ion Ratio Lower Upper
91 100
92 52.0 25.8 77.3
134 24.9 11.7 35.1

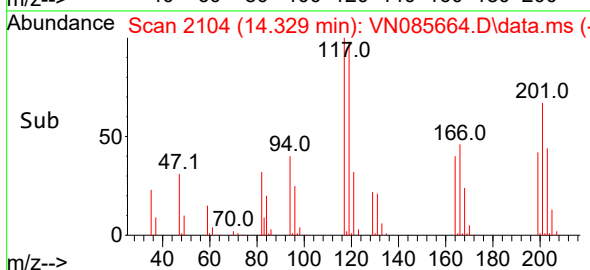
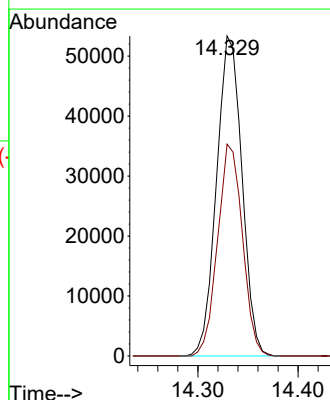
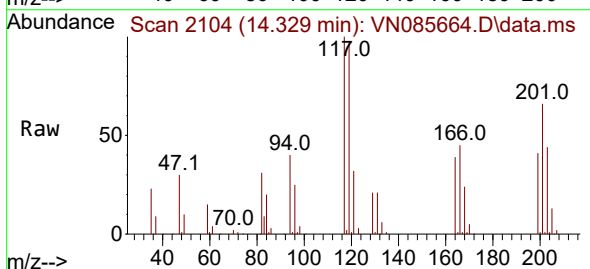
Manual Integrations
APPROVED

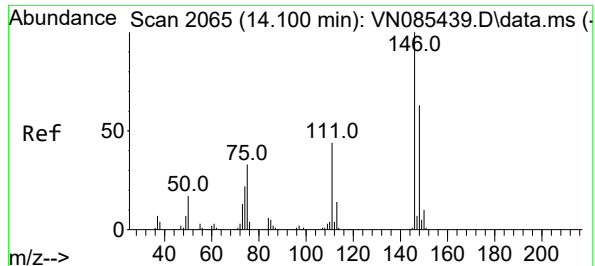
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#90
Hexachloroethane
Concen: 48.490 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:117 Resp: 93994
Ion Ratio Lower Upper
117 100
201 64.7 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 50.370 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

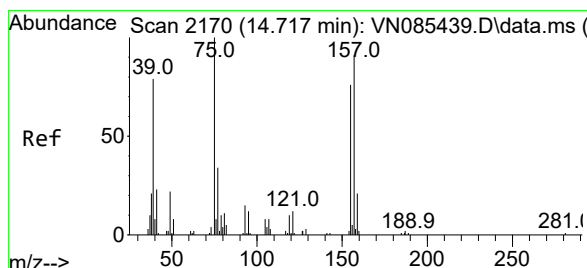
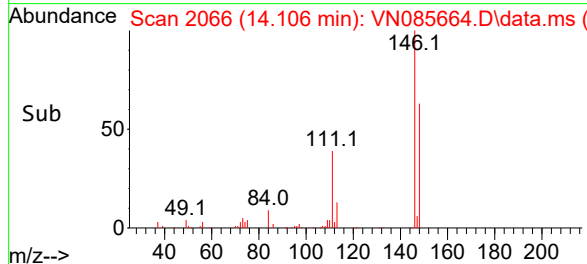
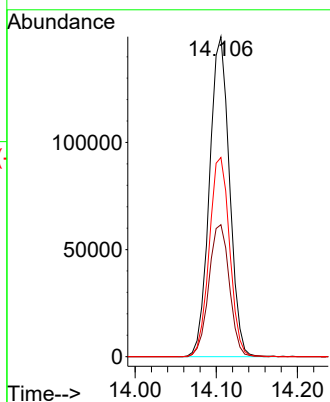
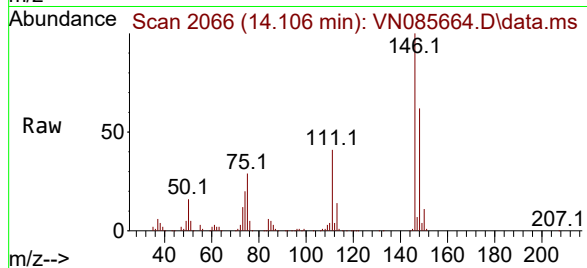
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	146	Resp:	256034
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.7	65.1
148	63.4	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.679 ug/l

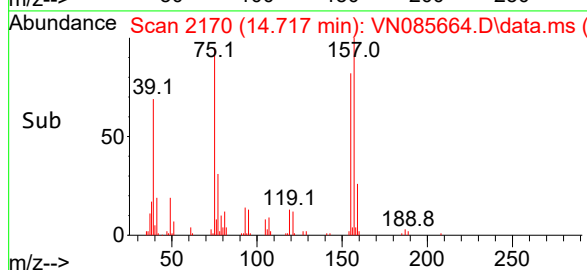
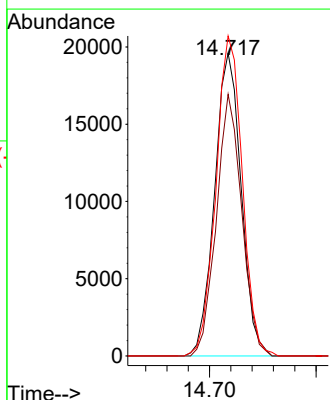
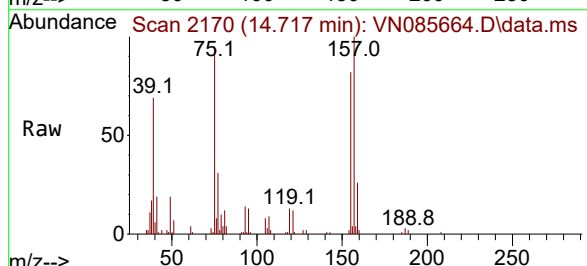
RT: 14.717 min Scan# 2170

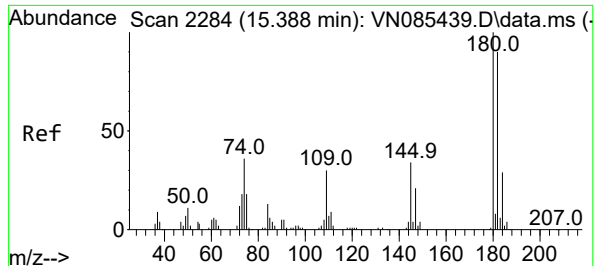
Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Tgt Ion:	75	Resp:	33940
Ion	Ratio	Lower	Upper
75	100		
155	82.5	36.4	109.2
157	105.0	45.4	136.1





#93

1,2,4-Trichlorobenzene

Concen: 50.226 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:180 Resp: 11865

Ion Ratio Lower Upper

180 100

182 93.7 46.8 140.3

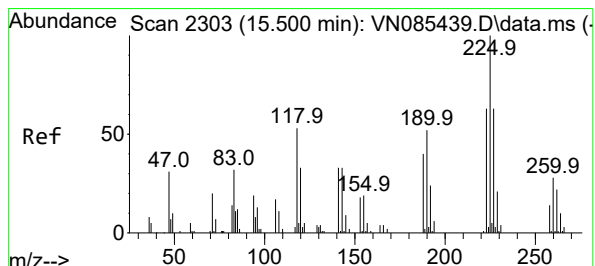
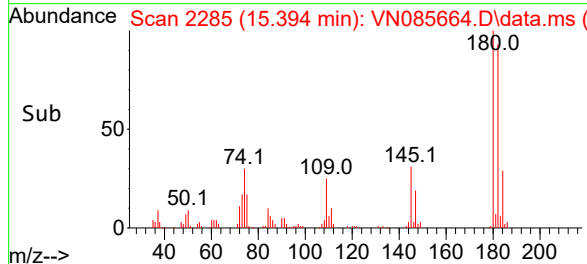
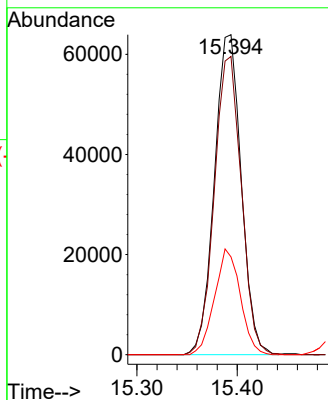
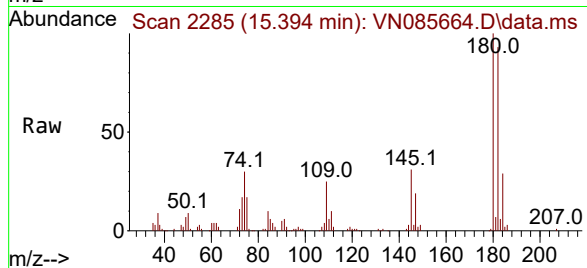
145 31.7 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#94

Hexachlorobutadiene

Concen: 41.644 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

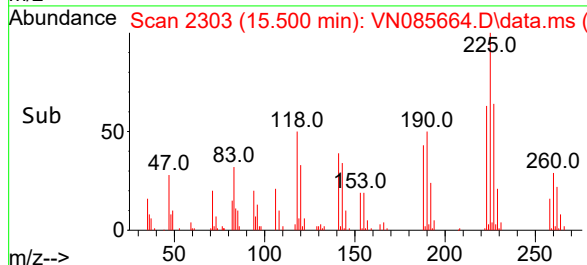
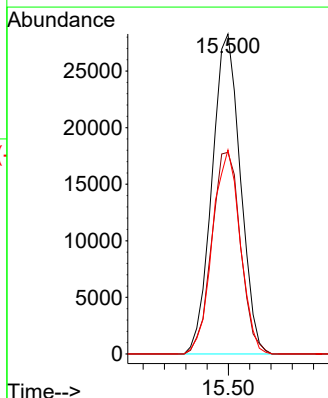
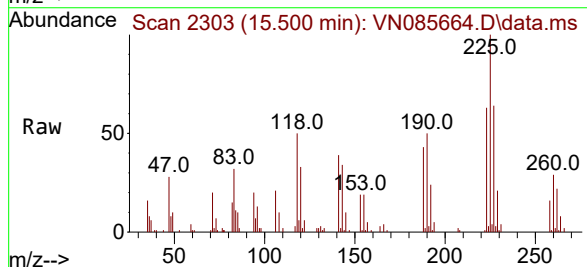
Tgt Ion:225 Resp: 52232

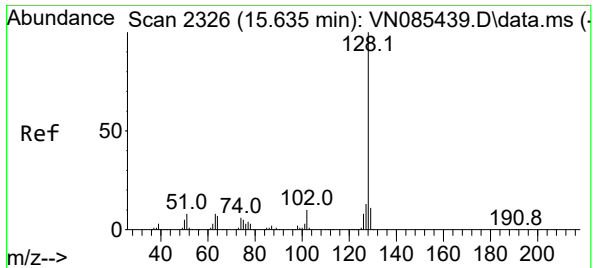
Ion Ratio Lower Upper

225 100

223 64.1 30.7 92.1

227 62.5 30.9 92.5





#95

Naphthalene

Concen: 56.729 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

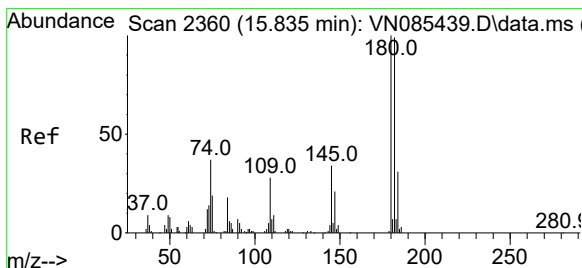
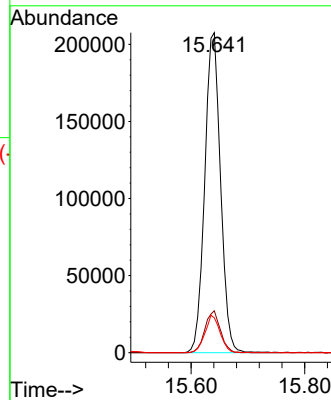
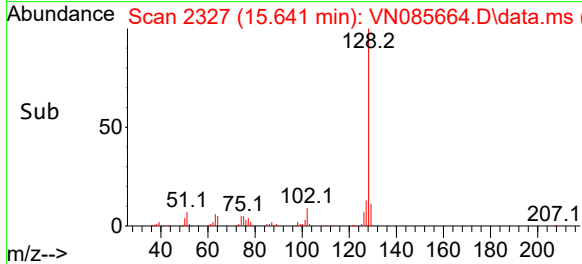
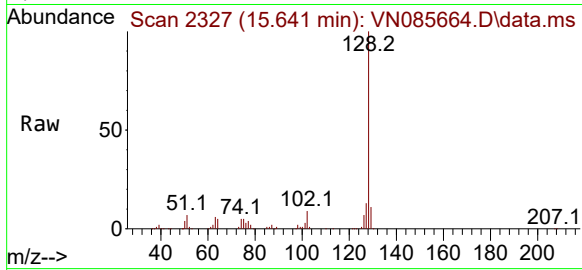
Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:	128	Resp:	39992
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.6	16.0
129	11.1	8.8	13.2

Manual Integrations
APPROVEDReviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

#96

1,2,3-Trichlorobenzene

Concen: 48.673 ug/l

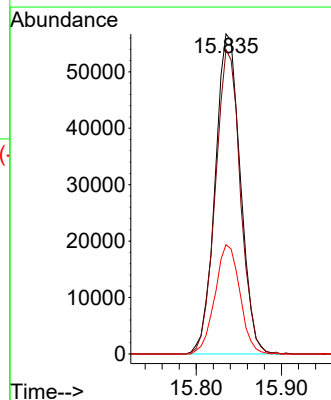
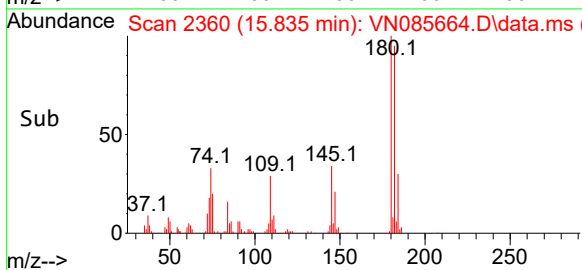
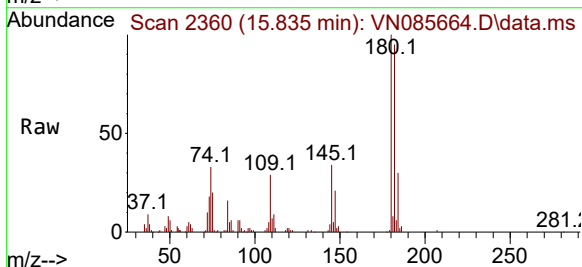
RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Tgt Ion:	180	Resp:	116351
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.4	142.2
145	33.8	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	106	0.00
2 T	Dichlorodifluoromethane	0.677	0.757	-11.8	127	0.00
3 P	Chloromethane	0.733	0.679	7.4	106	0.00
4 C	Vinyl Chloride	0.737	0.871	-18.2#	134	0.00
5 T	Bromomethane	0.445	0.546	-22.7	138	-0.01
6 T	Chloroethane	0.467	0.530	-13.5	132	0.00
7 T	Trichlorofluoromethane	1.069	1.084	-1.4	115	0.00
8 T	Diethyl Ether	0.369	0.388	-5.1	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.602	0.618	-2.7	121	0.00
10 T	Methyl Iodide	0.690	0.792	-14.8	116	0.00
11 T	Tert butyl alcohol	0.092	0.102	-10.9	116	0.00
12 CM	1,1-Dichloroethene	0.537	0.608	-13.2#	121	0.00
13 T	Acrolein	0.126	0.106	15.9	80	0.00
14 T	Allyl chloride	0.871	0.744	14.6	93	0.00
15 T	Acrylonitrile	0.294	0.295	-0.3	105	0.00
16 T	Acetone	0.261	0.232	11.1	97	0.00
17 T	Carbon Disulfide	1.652	1.745	-5.6	125	0.00
18 T	Methyl Acetate	0.793	0.691	12.9	92	0.00
19 T	Methyl tert-butyl Ether	1.742	1.939	-11.3	109	0.00
20 T	Methylene Chloride	0.646	0.676	-4.6	114	0.00
21 T	trans-1,2-Dichloroethene	0.573	0.634	-10.6	121	0.00
22 T	Diisopropyl ether	1.933	1.798	7.0	93	0.00
23 T	Vinyl Acetate	1.353	1.353	0.0	96	0.00
24 P	1,1-Dichloroethane	1.178	1.164	1.2	105	0.00
25 T	2-Butanone	0.384	0.370	3.6	100	0.00
26 T	2,2-Dichloropropane	0.953	0.908	4.7	103	0.00
27 T	cis-1,2-Dichloroethene	0.675	0.743	-10.1	115	0.00
28 T	Bromochloromethane	0.548	0.407	25.7#	79	0.00
29 T	Tetrahydrofuran	0.243	0.247	-1.6	100	0.00
30 C	Chloroform	1.218	1.197	1.7#	108	0.00
31 T	Cyclohexane	1.024	0.922	10.0	111	0.00
32 T	1,1,1-Trichloroethane	1.068	1.070	-0.2	111	0.00
33 S	1,2-Dichloroethane-d4	0.807	0.680	15.7	86	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35 S	Dibromofluoromethane	0.347	0.325	6.3	99	0.00
36 T	1,1-Dichloropropene	0.487	0.492	-1.0	116	0.00
37 T	Ethyl Acetate	0.491	0.435	11.4	97	0.00
38 T	Carbon Tetrachloride	0.557	0.550	1.3	113	0.00
39 T	Methylcyclohexane	0.457	0.483	-5.7	114	0.00
40 TM	Benzene	1.463	1.518	-3.8	114	0.00
41 T	Methacrylonitrile	0.256	0.226	11.7	92	0.00
42 TM	1,2-Dichloroethane	0.551	0.492	10.7	98	0.00
43 T	Isopropyl Acetate	0.787	0.773	1.8	104	0.00
44 TM	Trichloroethene	0.341	0.359	-5.3	121	0.00
45 C	1,2-Dichloropropane	0.374	0.357	4.5#	105	0.00
46 T	Dibromomethane	0.270	0.267	1.1	109	0.00
47 T	Bromodichloromethane	0.549	0.549	0.0	107	0.00
48 T	Methyl methacrylate	0.354	0.342	3.4	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.006	0.006	0.0	110	0.00
50 S	Toluene-d8	1.232	1.199	2.7	103	0.00
51 T	4-Methyl-2-Pentanone	0.457	0.445	2.6	99	0.00
52 CM	Toluene	0.848	0.949	-11.9#	119	0.00
53 T	t-1,3-Dichloropropene	0.519	0.544	-4.8	108	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.588	-6.1	109	0.00
55 T	1,1,2-Trichloroethane	0.335	0.359	-7.2	115	0.00
56 T	Ethyl methacrylate	0.469	0.565	-20.5	113	0.00
57 T	1,3-Dichloropropane	0.583	0.607	-4.1	110	0.00
58 T	2-Chloroethyl Vinyl ether	0.213	0.167	21.6	75	0.00
59 T	2-Hexanone	0.321	0.328	-2.2	100	0.00
60 T	Dibromochloromethane	0.405	0.425	-4.9	112	0.00
61 T	1,2-Dibromoethane	0.334	0.362	-8.4	118	0.00
62 S	4-Bromofluorobenzene	0.422	0.413	2.1	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
64 T	Tetrachloroethene	0.341	0.349	-2.3	121	0.00
65 PM	Chlorobenzene	1.095	1.176	-7.4	122	0.00
66 T	1,1,1,2-Tetrachloroethane	0.402	0.405	-0.7	115	0.00
67 C	Ethyl Benzene	1.784	1.996	-11.9#	119	0.00
68 T	m/p-Xylenes	0.659	0.779	-18.2	123	0.00
69 T	o-Xylene	0.630	0.741	-17.6	121	0.00
70 T	Styrene	1.043	1.238	-18.7	118	0.00
71 P	Bromoform	0.288	0.313	-8.7	112	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	3.375	3.891	-15.3	121	0.00
74 T	N-amyl acetate	1.517	1.526	-0.6	101	0.00
75 P	1,1,2,2-Tetrachloroethane	1.192	1.222	-2.5	114	0.00
76 T	1,2,3-Trichloropropane	1.016	0.992	2.4	119	0.00
77 T	Bromobenzene	0.882	0.939	-6.5	117	0.00
78 T	n-propylbenzene	3.995	4.416	-10.5	114	0.00
79 T	2-Chlorotoluene	2.586	2.722	-5.3	113	0.00
80 T	1,3,5-Trimethylbenzene	2.787	3.165	-13.6	115	0.00
81 T	trans-1,4-Dichloro-2-butene	0.376	0.426	-13.3	117	0.00
82 T	4-Chlorotoluene	2.574	2.736	-6.3	113	0.00
83 T	tert-Butylbenzene	2.341	2.622	-12.0	115	0.00
84 T	1,2,4-Trimethylbenzene	2.778	3.180	-14.5	113	0.00
85 T	sec-Butylbenzene	3.244	3.631	-11.9	114	0.00
86 T	p-Isopropyltoluene	2.631	3.032	-15.2	113	0.00
87 T	1,3-Dichlorobenzene	1.624	1.687	-3.9	115	0.00
88 T	1,4-Dichlorobenzene	1.683	1.670	0.8	114	0.00
89 T	n-Butylbenzene	2.327	2.439	-4.8	105	0.00
90 T	Hexachloroethane	0.618	0.599	3.1	111	0.00
91 T	1,2-Dichlorobenzene	1.620	1.632	-0.7	112	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.218	0.216	0.9	104	0.00
93 T	1,2,4-Trichlorobenzene	0.753	0.756	-0.4	104	0.00
94 T	Hexachlorobutadiene	0.400	0.333	16.8	97	0.00
95 T	Naphthalene	2.246	2.548	-13.4	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.762	0.741	2.8	101	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	106	0.00
2 T	Dichlorodifluoromethane	50.000	55.918	-11.8	127	0.00
3 P	Chloromethane	50.000	46.328	7.3	106	0.00
4 C	Vinyl Chloride	50.000	59.136	-18.3#	134	0.00
5 T	Bromomethane	50.000	61.398	-22.8	138	-0.01
6 T	Chloroethane	50.000	56.685	-13.4	132	0.00
7 T	Trichlorofluoromethane	50.000	50.691	-1.4	115	0.00
8 T	Diethyl Ether	50.000	52.547	-5.1	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.313	-2.6	121	0.00
10 T	Methyl Iodide	50.000	57.456	-14.9	116	0.00
11 T	Tert butyl alcohol	250.000	275.633	-10.3	116	0.00
12 CM	1,1-Dichloroethene	50.000	56.652	-13.3#	121	0.00
13 T	Acrolein	250.000	210.430	15.8	80	0.00
14 T	Allyl chloride	50.000	42.748	14.5	93	0.00
15 T	Acrylonitrile	250.000	250.976	-0.4	105	0.00
16 T	Acetone	250.000	222.804	10.9	97	0.00
17 T	Carbon Disulfide	50.000	52.815	-5.6	125	0.00
18 T	Methyl Acetate	50.000	43.573	12.9	92	0.00
19 T	Methyl tert-butyl Ether	50.000	55.635	-11.3	109	0.00
20 T	Methylene Chloride	50.000	52.381	-4.8	114	0.00
21 T	trans-1,2-Dichloroethene	50.000	55.262	-10.5	121	0.00
22 T	Diisopropyl ether	50.000	46.502	7.0	93	0.00
23 T	Vinyl Acetate	250.000	250.107	-0.0	96	0.00
24 P	1,1-Dichloroethane	50.000	49.375	1.3	105	0.00
25 T	2-Butanone	250.000	241.200	3.5	100	0.00
26 T	2,2-Dichloropropane	50.000	47.643	4.7	103	0.00
27 T	cis-1,2-Dichloroethene	50.000	55.030	-10.1	115	0.00
28 T	Bromochloromethane	50.000	37.096	25.8#	79	0.00
29 T	Tetrahydrofuran	250.000	254.248	-1.7	100	0.00
30 C	Chloroform	50.000	49.133	1.7#	108	0.00
31 T	Cyclohexane	50.000	44.998	10.0	111	0.00
32 T	1,1,1-Trichloroethane	50.000	50.093	-0.2	111	0.00
33 S	1,2-Dichloroethane-d4	50.000	42.127	15.7	86	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35 S	Dibromofluoromethane	50.000	46.791	6.4	99	0.00
36 T	1,1-Dichloropropene	50.000	50.496	-1.0	116	0.00
37 T	Ethyl Acetate	50.000	44.271	11.5	97	0.00
38 T	Carbon Tetrachloride	50.000	49.323	1.4	113	0.00
39 T	Methylcyclohexane	50.000	52.749	-5.5	114	0.00
40 TM	Benzene	50.000	51.903	-3.8	114	0.00
41 T	Methacrylonitrile	50.000	44.255	11.5	92	0.00
42 TM	1,2-Dichloroethane	50.000	44.642	10.7	98	0.00
43 T	Isopropyl Acetate	50.000	49.118	1.8	104	0.00
44 TM	Trichloroethene	50.000	52.726	-5.5	121	0.00
45 C	1,2-Dichloropropane	50.000	47.761	4.5#	105	0.00
46 T	Dibromomethane	50.000	49.589	0.8	109	0.00
47 T	Bromodichloromethane	50.000	49.998	0.0	107	0.00
48 T	Methyl methacrylate	50.000	48.223	3.6	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1074.167	-7.4	110	0.00
50 S	Toluene-d8	50.000	48.662	2.7	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	243.652	2.5	99	0.00
52 CM	Toluene	50.000	56.008	-12.0#	119	0.00
53 T	t-1,3-Dichloropropene	50.000	52.428	-4.9	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.999	-6.0	109	0.00
55 T	1,1,2-Trichloroethane	50.000	53.443	-6.9	115	0.00
56 T	Ethyl methacrylate	50.000	49.991	0.0	113	0.00
57 T	1,3-Dichloropropane	50.000	52.040	-4.1	110	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	195.762	21.7	75	0.00
59 T	2-Hexanone	250.000	255.240	-2.1	100	0.00
60 T	Dibromochloromethane	50.000	52.516	-5.0	112	0.00
61 T	1,2-Dibromoethane	50.000	54.228	-8.5	118	0.00
62 S	4-Bromofluorobenzene	50.000	48.969	2.1	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
64 T	Tetrachloroethene	50.000	51.189	-2.4	121	0.00
65 PM	Chlorobenzene	50.000	53.668	-7.3	122	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.402	-0.8	115	0.00
67 C	Ethyl Benzene	50.000	55.928	-11.9#	119	0.00
68 T	m/p-Xylenes	100.000	118.079	-18.1	123	0.00
69 T	o-Xylene	50.000	58.761	-17.5	121	0.00
70 T	Styrene	50.000	59.359	-18.7	118	0.00
71 P	Bromoform	50.000	54.323	-8.6	112	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	57.650	-15.3	121	0.00
74 T	N-amyl acetate	50.000	50.296	-0.6	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.261	-2.5	114	0.00
76 T	1,2,3-Trichloropropane	50.000	48.784	2.4	119	0.00
77 T	Bromobenzene	50.000	53.229	-6.5	117	0.00
78 T	n-propylbenzene	50.000	55.269	-10.5	114	0.00
79 T	2-Chlorotoluene	50.000	52.647	-5.3	113	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.764	-13.5	115	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.737	-13.5	117	0.00
82 T	4-Chlorotoluene	50.000	53.134	-6.3	113	0.00
83 T	tert-Butylbenzene	50.000	56.016	-12.0	115	0.00
84 T	1,2,4-Trimethylbenzene	50.000	57.240	-14.5	113	0.00
85 T	sec-Butylbenzene	50.000	55.962	-11.9	114	0.00
86 T	p-Isopropyltoluene	50.000	51.682	-3.4	113	0.00
87 T	1,3-Dichlorobenzene	50.000	51.961	-3.9	115	0.00
88 T	1,4-Dichlorobenzene	50.000	49.616	0.8	114	0.00
89 T	n-Butylbenzene	50.000	52.399	-4.8	105	0.00
90 T	Hexachloroethane	50.000	48.490	3.0	111	0.00
91 T	1,2-Dichlorobenzene	50.000	50.370	-0.7	112	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.679	0.6	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.226	-0.5	104	0.00
94 T	Hexachlorobutadiene	50.000	41.644	16.7	97	0.00
95 T	Naphthalene	50.000	56.729	-13.5	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	50.000	48.673	2.7	101	0.00

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



QC SAMPLE DATA

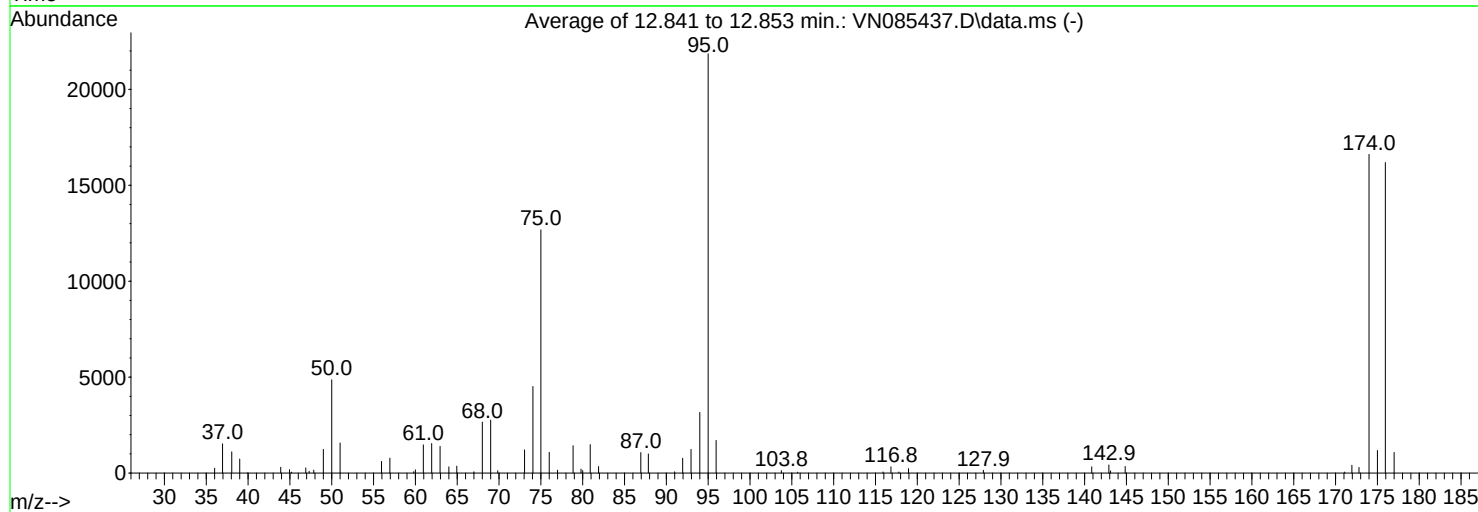
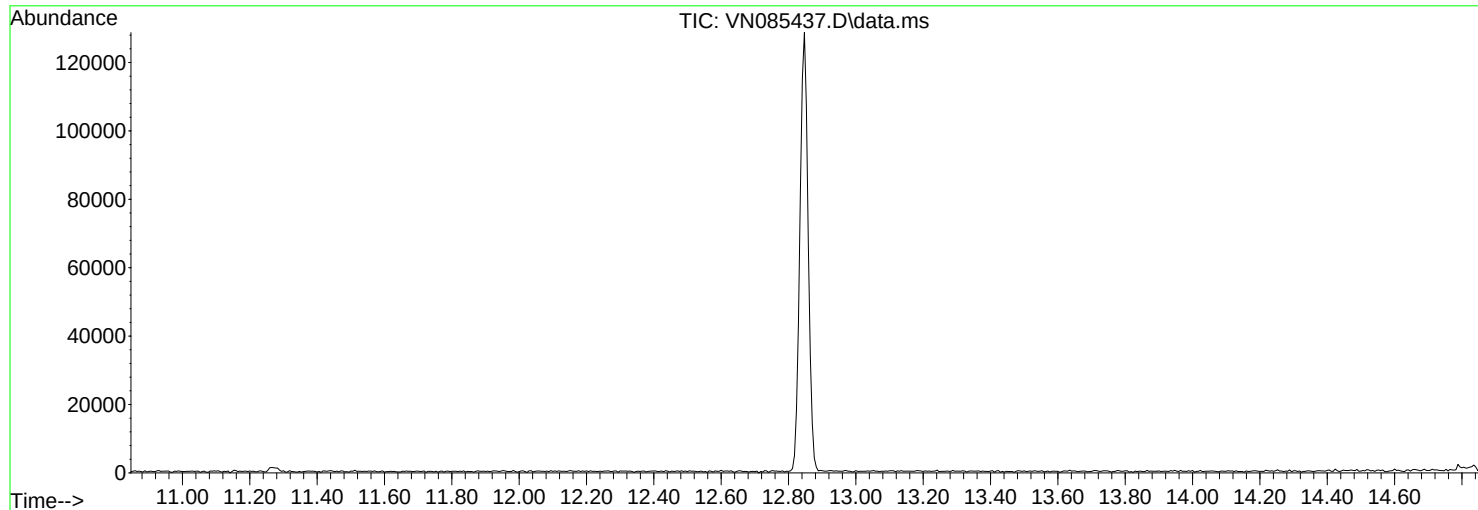
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085437.D
Acq On : 14 Jan 2025 14:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

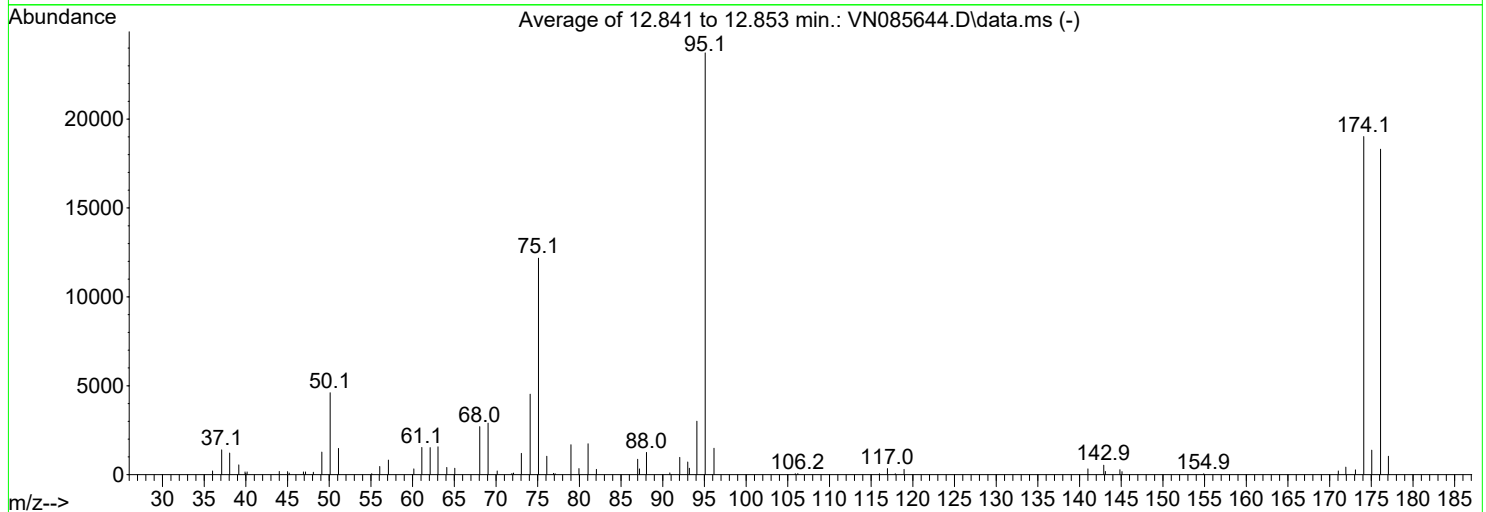
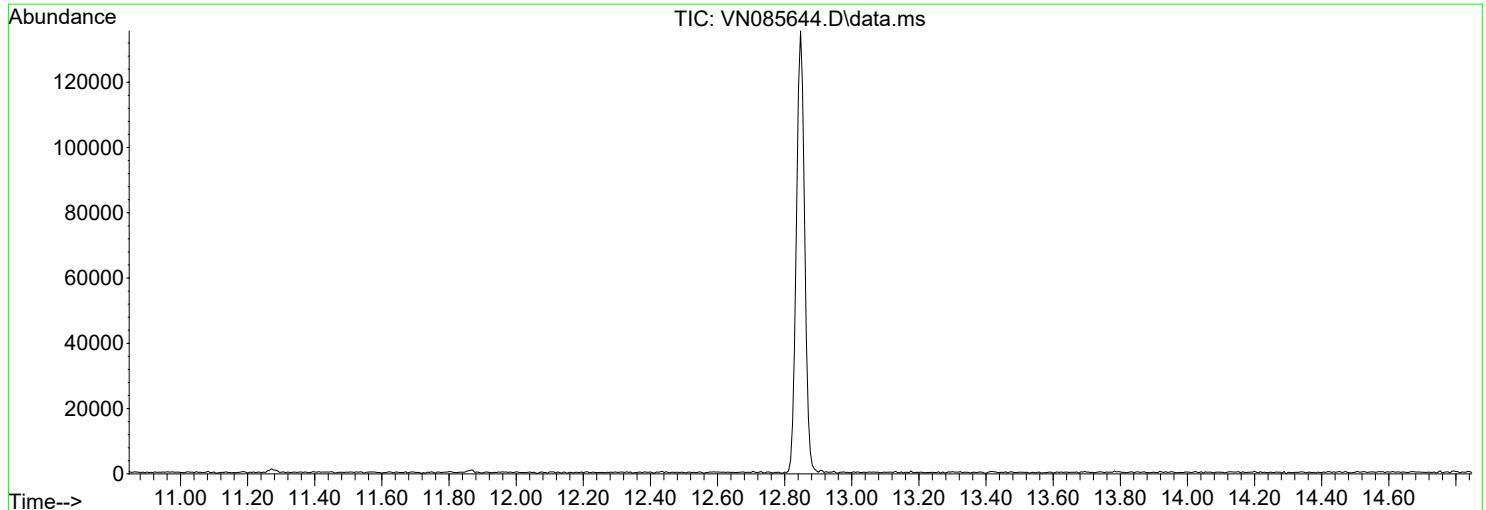
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	4864	PASS
75	95	30	60	58.0	12679	PASS
95	95	100	100	100.0	21856	PASS
96	95	5	9	7.8	1703	PASS
173	174	0.00	2	1.8	296	PASS
174	95	50	100	76.0	16613	PASS
175	174	5	9	7.1	1179	PASS
176	174	95	101	97.4	16185	PASS
177	176	5	9	6.7	1079	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085644.D
Acq On : 04 Feb 2025 09:55
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\82N011425W.M
Title : SW846 8260
Last Update : Wed Jan 15 02:16:08 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.4	4605	PASS
75	95	30	60	51.3	12174	PASS
95	95	100	100	100.0	23728	PASS
96	95	5	9	6.3	1483	PASS
173	174	0.00	2	1.4	274	PASS
174	95	50	100	80.1	19016	PASS
175	174	5	9	7.2	1374	PASS
176	174	95	101	96.3	18307	PASS
177	176	5	9	5.7	1035	PASS

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0204WBL01		SDG No.:	Q1249
Lab Sample ID:	VN0204WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085647.D	1		02/04/25 12:31	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0204WBL01	SDG No.:	Q1249
Lab Sample ID:	VN0204WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085647.D	1		02/04/25 12:31	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.9		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2		85 - 114		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	198000	8.224				
540-36-3	1,4-Difluorobenzene	379000	9.1				
3114-55-4	Chlorobenzene-d5	329000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.788				

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\VN020425\
Data File : VN085647.D
Acq On : 04 Feb 2025 12:31
Operator : JC\MD
Sample : VN0204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

Quant Time: Feb 05 01:02:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	197983	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	379434	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	328690	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132287	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	159588	49.936	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.880%
35) Dibromofluoromethane	8.165	113	132313	50.264	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.520%
50) Toluene-d8	10.565	98	460162	49.201	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.400%
62) 4-Bromofluorobenzene	12.847	95	141527	44.237	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	88.480%

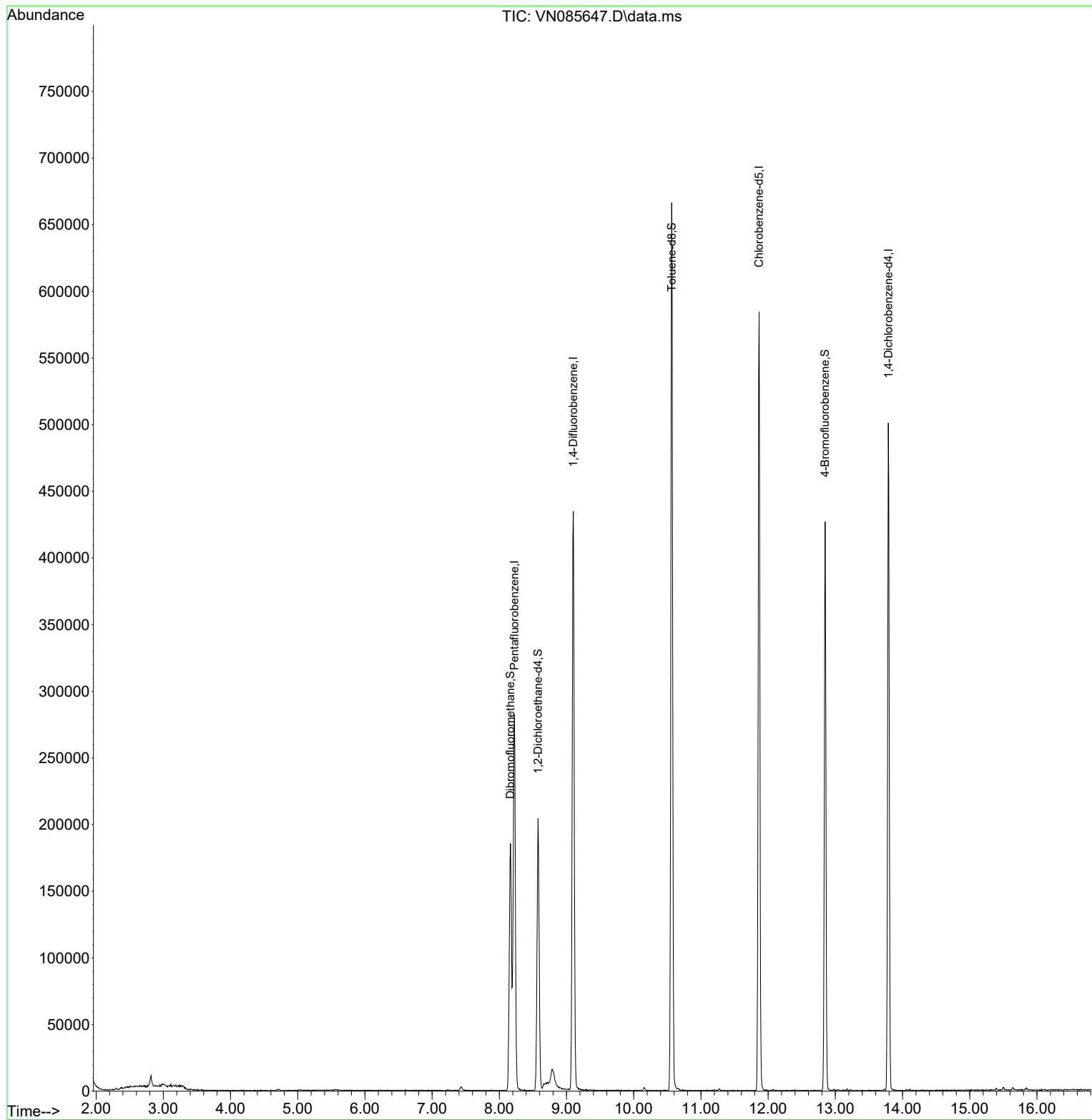
Target Compounds	Qvalue
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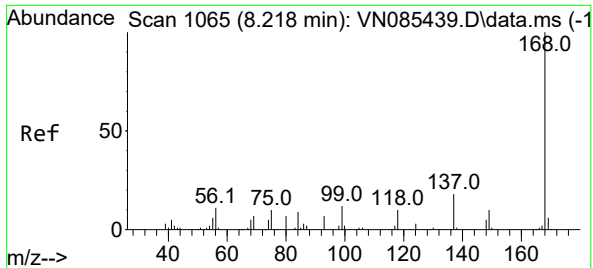
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085647.D
Acq On : 04 Feb 2025 12:31
Operator : JC\MD
Sample : VN0204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

Quant Time: Feb 05 01:02:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

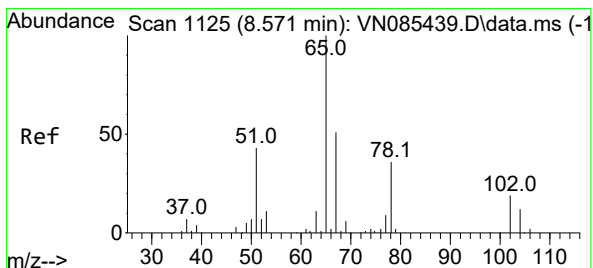
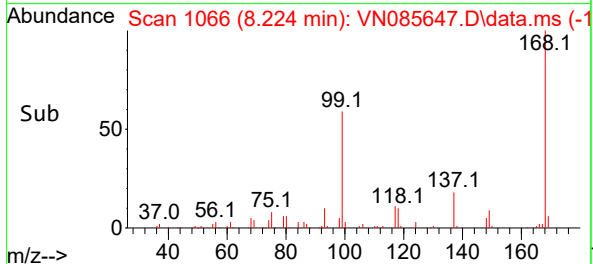
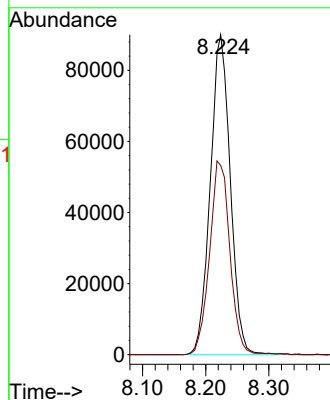
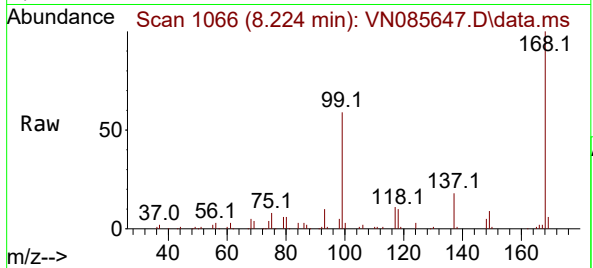




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085647.D
Acq: 04 Feb 2025 12:31

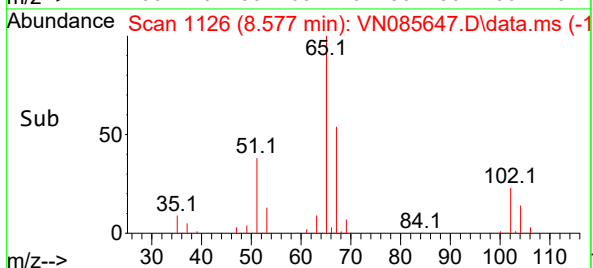
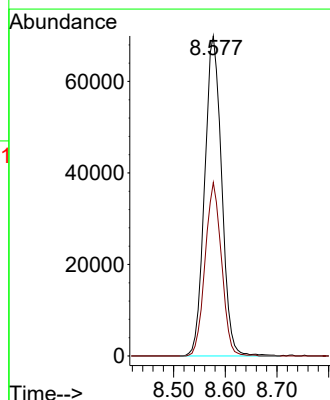
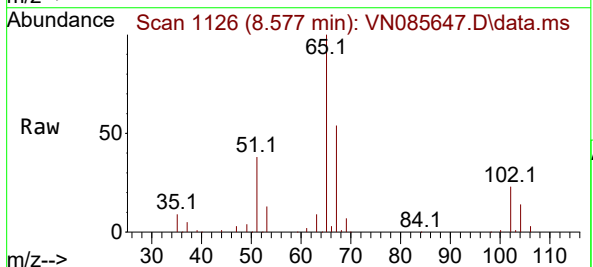
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

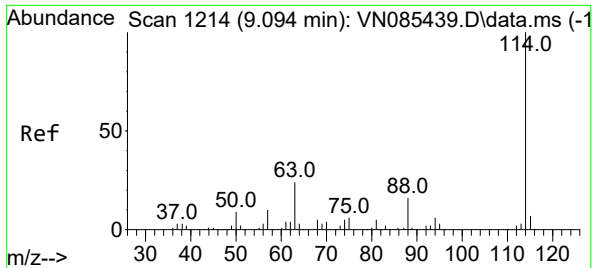
Tgt Ion:168 Resp: 197983
Ion Ratio Lower Upper
168 100
99 59.2 53.6 80.4



#33
1,2-Dichloroethane-d4
Concen: 49.936 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085647.D
Acq: 04 Feb 2025 12:31

Tgt Ion: 65 Resp: 159588
Ion Ratio Lower Upper
65 100
67 52.3 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085647.D

Acq: 04 Feb 2025 12:31

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBL01

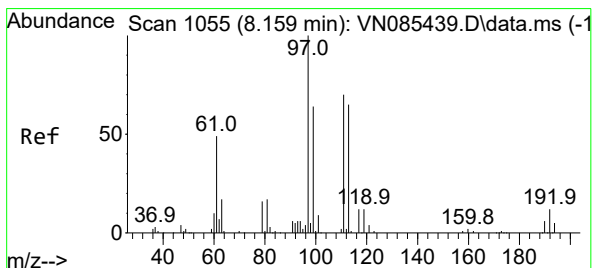
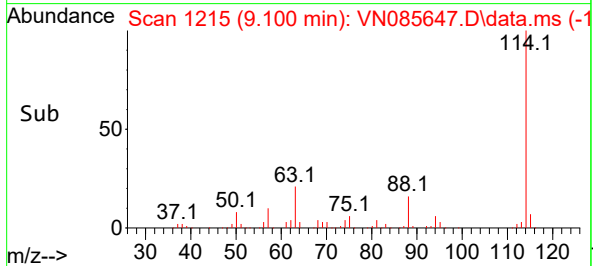
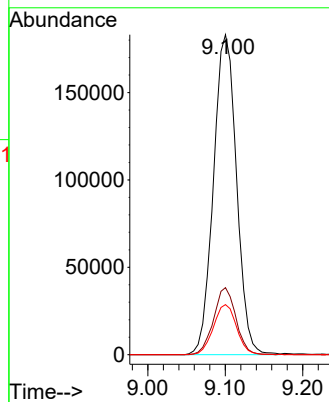
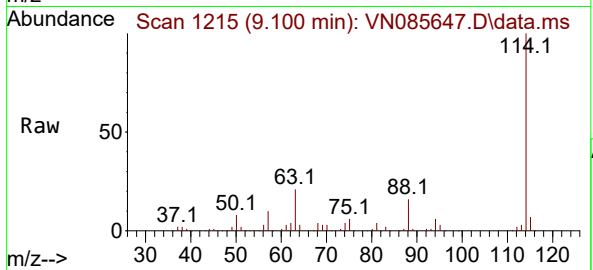
Tgt Ion:114 Resp: 379434

Ion Ratio Lower Upper

114 100

63 21.0 0.0 47.6

88 15.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.264 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085647.D

Acq: 04 Feb 2025 12:31

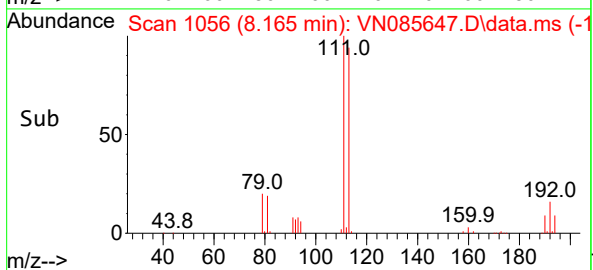
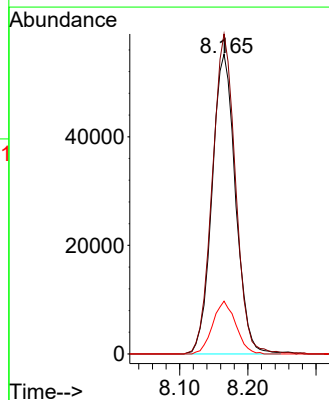
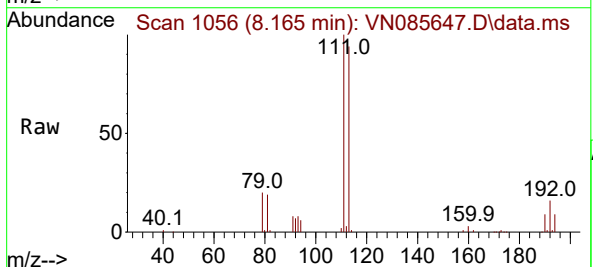
Tgt Ion:113 Resp: 132313

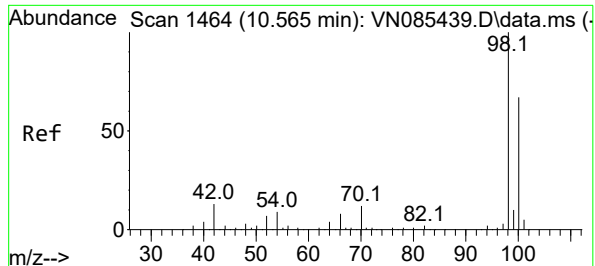
Ion Ratio Lower Upper

113 100

111 105.6 82.7 124.1

192 17.4 14.3 21.5

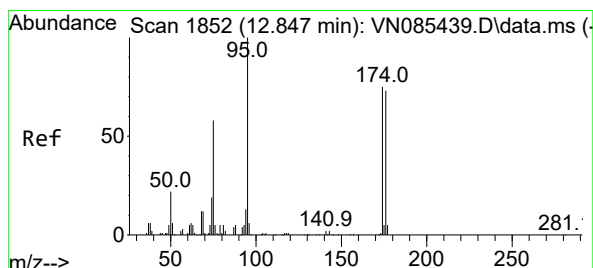
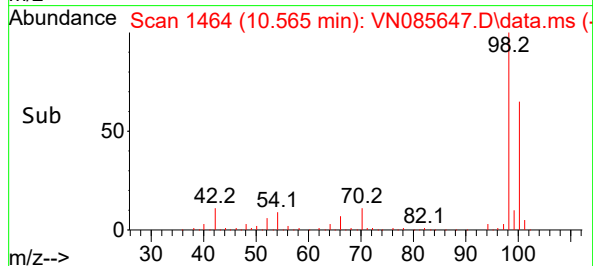
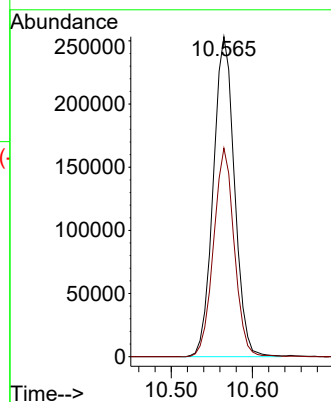
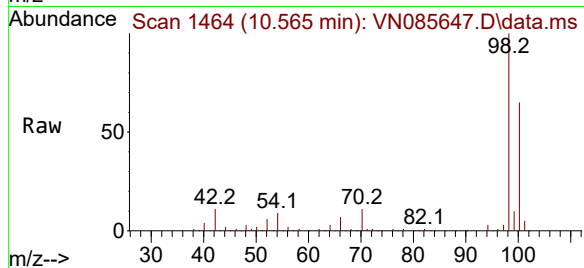




#50
Toluene-d8
Concen: 49.201 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085647.D
Acq: 04 Feb 2025 12:31

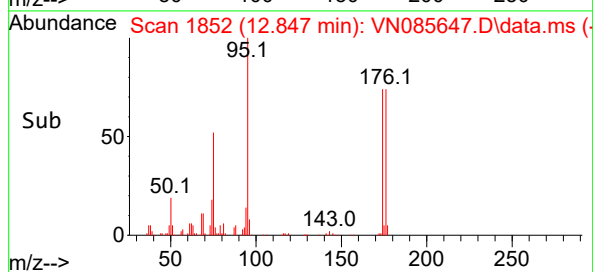
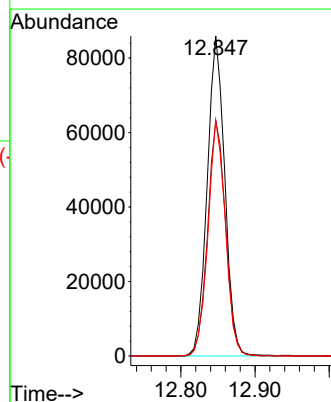
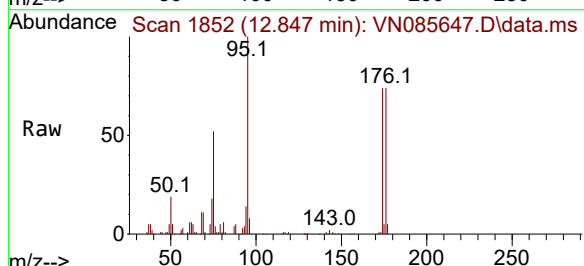
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

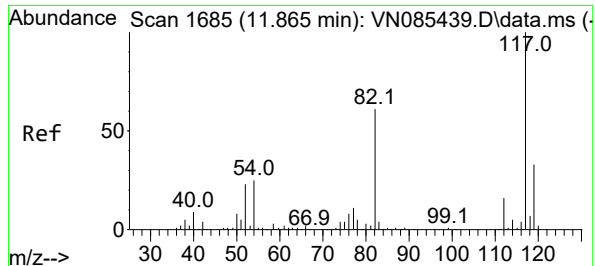
Tgt Ion: 98 Resp: 460162
Ion Ratio Lower Upper
98 100
100 63.4 52.2 78.4



#62
4-Bromofluorobenzene
Concen: 44.237 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085647.D
Acq: 04 Feb 2025 12:31

Tgt Ion: 95 Resp: 141527
Ion Ratio Lower Upper
95 100
174 75.4 0.0 145.0
176 72.4 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085647.D

Acq: 04 Feb 2025 12:31

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBL01

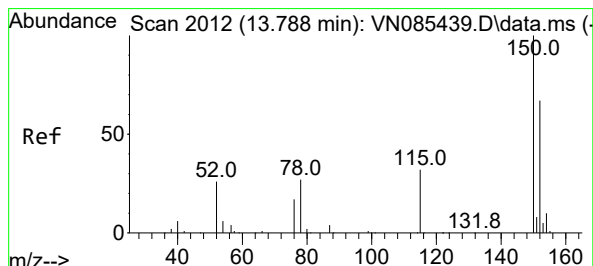
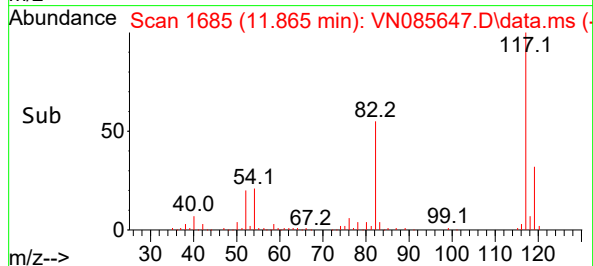
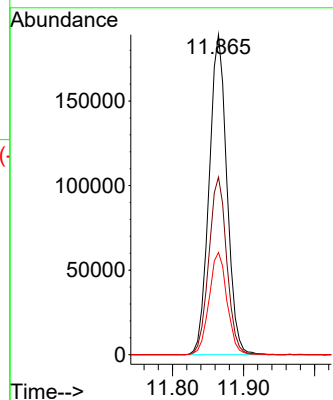
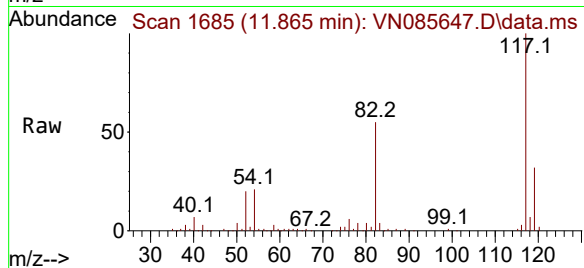
Tgt Ion:117 Resp: 328690

Ion Ratio Lower Upper

117 100

82 55.5 48.6 72.8

119 31.9 26.6 39.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085647.D

Acq: 04 Feb 2025 12:31

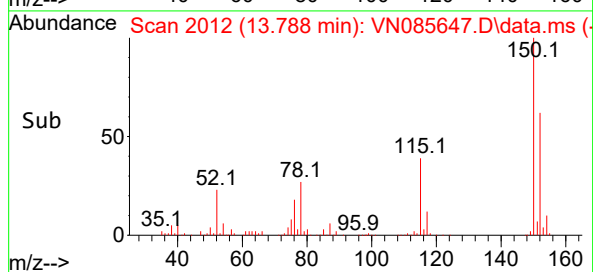
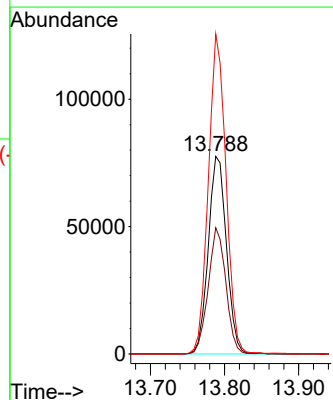
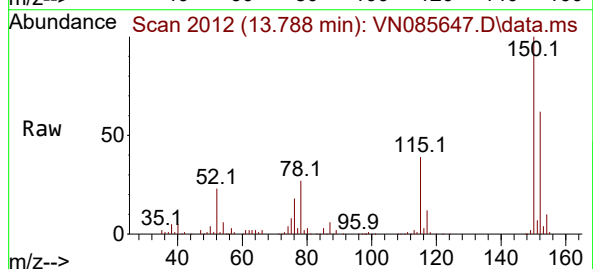
Tgt Ion:152 Resp: 132287

Ion Ratio Lower Upper

152 100

115 61.9 31.1 93.3

150 156.8 0.0 343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085647.D
Acq On : 04 Feb 2025 12:31
Operator : JC\MD
Sample : VN0204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Title : SW846 8260

Signal : TIC: VN085647.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.818	139	147	154	rBV3	8114	16018	1.33%	0.257%
2	8.165	1045	1056	1060	rBV	185284	425867	35.35%	6.823%
3	8.224	1060	1066	1078	rVB	281473	637320	52.91%	10.211%
4	8.577	1115	1126	1136	rBV	204041	449260	37.30%	7.198%
5	8.783	1154	1161	1178	rVB2	13849	55885	4.64%	0.895%
6	9.100	1206	1215	1225	rBV	433778	896052	74.39%	14.356%
7	10.565	1456	1464	1476	rBV	666002	1204549	100.00%	19.299%
8	11.865	1677	1685	1697	rBV	584223	1021890	84.84%	16.372%
9	12.847	1843	1852	1863	rBV	426692	705902	58.60%	11.310%
10	13.788	2005	2012	2024	rBV	500836	828783	68.80%	13.279%

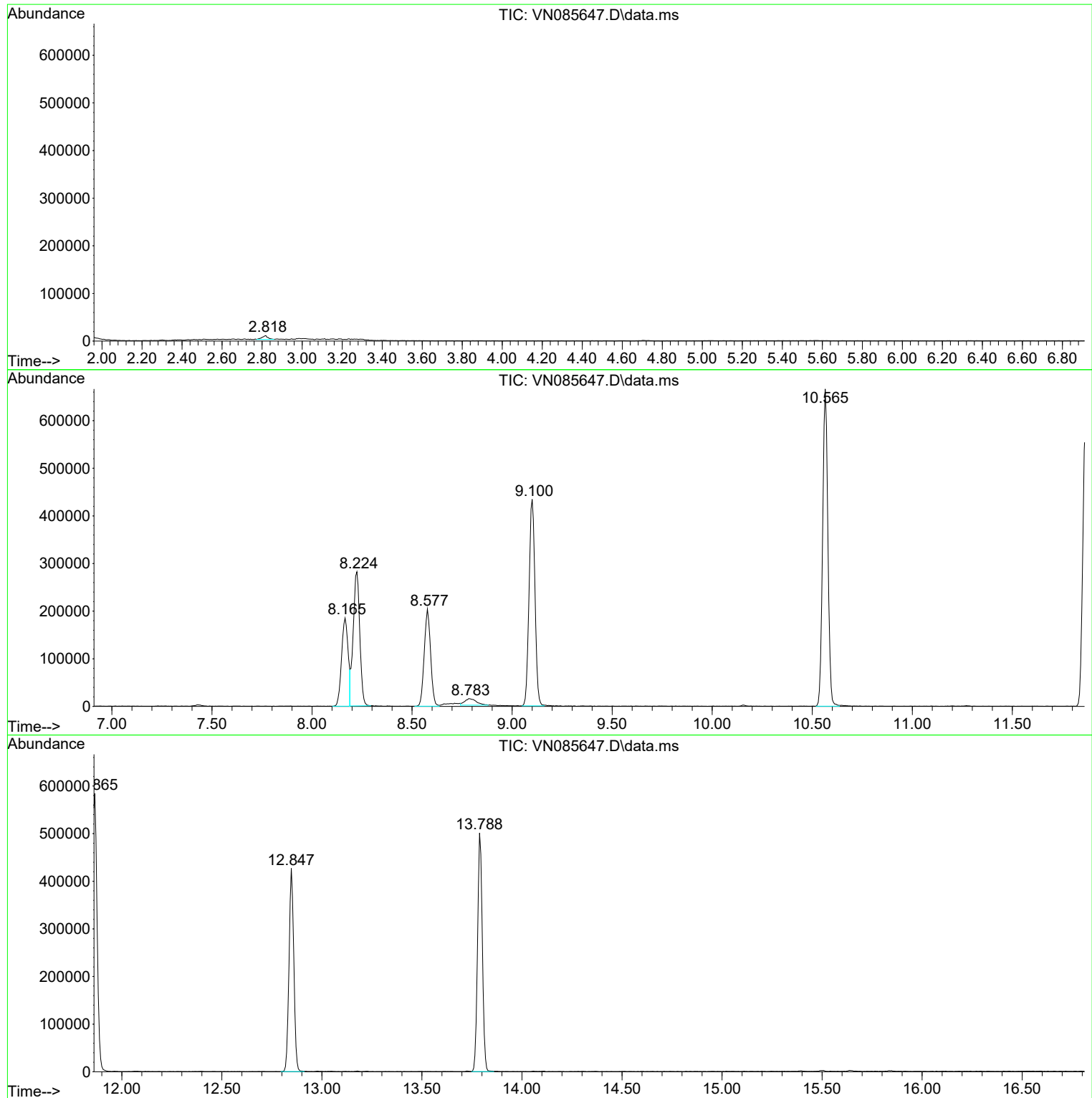
Sum of corrected areas: 6241526

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085647.D
Acq On : 04 Feb 2025 12:31
Operator : JC\MD
Sample : VN0204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085647.D
Acq On : 04 Feb 2025 12:31
Operator : JC\MD
Sample : VN0204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085647.D
Acq On : 04 Feb 2025 12:31
Operator : JC\MD
Sample : VN0204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0204WBS02		SDG No.:	Q1249
Lab Sample ID:	VN0204WBS02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085651.D	1		02/04/25 14:51	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	20.6		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	25.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	24.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	24.7		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	93.0		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	21.6		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.3		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	21.3		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	99.4		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	20.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.1		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.6		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.7		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.0		0.75	2.50	5.00	ug/L
108-88-3	Toluene	21.7		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.6		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.4		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0204WBS02	SDG No.:	Q1249
Lab Sample ID:	VN0204WBS02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085651.D	1		02/04/25 14:51	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.9		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.2		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.6		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	43.4		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	21.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	21.9		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	21.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.9		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.2		81 - 118		90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	206000	8.224				
540-36-3	1,4-Difluorobenzene	367000	9.1				
3114-55-4	Chlorobenzene-d5	318000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	150000	13.788				

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\VN020425\
 Data File : VN085651.D
 Acq On : 04 Feb 2025 14:51
 Operator : JC\MD
 Sample : VN0204WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

Manual Integrations APPROVED

Reviewed By : John Carlone 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:04:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	206401	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	367320	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	317764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	150502	45.172	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.340%		
35) Dibromofluoromethane	8.165	113	124212	48.743	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.480%		
50) Toluene-d8	10.565	98	450633	49.771	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.540%		
62) 4-Bromofluorobenzene	12.847	95	148181	47.844	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.680%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	65996	23.616	ug/l	99
3) Chloromethane	2.359	50	62270	20.580	ug/l	97
4) Vinyl Chloride	2.512	62	76709	25.222	ug/l	98
5) Bromomethane	2.954	94	45534	24.786	ug/l	97
6) Chloroethane	3.118	64	47623	24.698	ug/l	92
7) Trichlorofluoromethane	3.495	101	90803	20.577	ug/l	99
8) Diethyl Ether	3.965	74	28815	18.901	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	53527	21.535	ug/l	98
10) Methyl Iodide	4.589	142	63259	22.224	ug/l	97
11) Tert butyl alcohol	5.524	59	41188	107.962	ug/l	98
12) 1,1-Dichloroethene	4.342	96	47753	21.557	ug/l	93
13) Acrolein	4.183	56	31533	60.548	ug/l	99
14) Allyl chloride	5.024	41	59657m	16.597	ug/l	
15) Acrylonitrile	5.718	53	123860	102.213	ug/l	99
16) Acetone	4.424	43	100115	92.999	ug/l	97
17) Carbon Disulfide	4.712	76	147410	21.613	ug/l	96
18) Methyl Acetate	5.030	43	62179	18.995	ug/l	94
19) Methyl tert-butyl Ether	5.795	73	145880	20.281	ug/l	96
20) Methylene Chloride	5.277	84	56823	21.322	ug/l	91
21) trans-1,2-Dichloroethene	5.789	96	51109	21.589	ug/l	89
22) Diisopropyl ether	6.671	45	148162	18.571	ug/l	95
23) Vinyl Acetate	6.606	43	533384	95.530	ug/l	96
24) 1,1-Dichloroethane	6.565	63	96240	19.783	ug/l	95
25) 2-Butanone	7.483	43	157483	99.409	ug/l #	87
26) 2,2-Dichloropropane	7.489	77	85009	21.614	ug/l	96
27) cis-1,2-Dichloroethene	7.483	96	58653	21.035	ug/l	93
28) Bromochloromethane	7.812	49	33036	14.596	ug/l	86
29) Tetrahydrofuran	7.836	42	102635	102.187	ug/l	90
30) Chloroform	7.965	83	101271	20.142	ug/l	99
31) Cyclohexane	8.259	56	78673	18.606	ug/l	90
32) 1,1,1-Trichloroethane	8.165	97	88190	19.996	ug/l	96
36) 1,1-Dichloropropene	8.371	75	70286	19.652	ug/l	99
37) Ethyl Acetate	7.559	43	65973	18.275	ug/l	98
38) Carbon Tetrachloride	8.365	117	78107	19.076	ug/l	96
39) Methylcyclohexane	9.600	83	67494	20.082	ug/l	94
40) Benzene	8.606	78	221792	20.639	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085651.D
 Acq On : 04 Feb 2025 14:51
 Operator : JC\MD
 Sample : VN0204WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:04:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	34320	18.274	ug/l	92
42) 1,2-Dichloroethane	8.671	62	73577	18.179	ug/l	97
43) Isopropyl Acetate	8.688	43	115982m	20.051	ug/l	
44) Trichloroethene	9.353	130	49633	19.842	ug/l	97
45) 1,2-Dichloropropane	9.618	63	53997	19.672	ug/l	97
46) Dibromomethane	9.706	93	39110	19.747	ug/l	98
47) Bromodichloromethane	9.888	83	77727	19.263	ug/l	96
48) Methyl methacrylate	9.677	41	47105	18.096	ug/l	89
49) 1,4-Dioxane	9.694	88	19272	439.639	ug/l	94
51) 4-Methyl-2-Pentanone	10.441	43	328830	97.965	ug/l	94
52) Toluene	10.630	92	135369	21.741	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	74675	19.583	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	83030	20.385	ug/l #	87
55) 1,1,2-Trichloroethane	11.018	97	51534	20.914	ug/l	99
56) Ethyl methacrylate	10.871	69	70589	18.280	ug/l	94
57) 1,3-Dichloropropane	11.159	76	86420	20.170	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	106039	67.812	ug/l	97
59) 2-Hexanone	11.194	43	238617	101.031	ug/l	93
60) Dibromochloromethane	11.359	129	59256	19.918	ug/l	99
61) 1,2-Dibromoethane	11.465	107	50776	20.701	ug/l	99
64) Tetrachloroethene	11.100	164	45898	21.187	ug/l	97
65) Chlorobenzene	11.888	112	143836	20.663	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	51716	20.242	ug/l	100
67) Ethyl Benzene	11.965	91	233116	20.561	ug/l	98
68) m/p-Xylenes	12.071	106	181911	43.412	ug/l	98
69) o-Xylene	12.400	106	84365	21.067	ug/l	97
70) Styrene	12.412	104	145039	21.885	ug/l	97
71) Bromoform	12.576	173	38717	21.179	ug/l #	99
73) Isopropylbenzene	12.694	105	210944	20.793	ug/l	98
74) N-amyl acetate	12.494	43	84808	18.598	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	75120	20.962	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	62358m	20.410	ug/l	
77) Bromobenzene	12.976	156	54340	20.501	ug/l	95
78) n-propylbenzene	13.035	91	250899	20.891	ug/l	99
79) 2-Chlorotoluene	13.124	91	158204	20.353	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	178682	21.323	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	24629	21.810	ug/l	90
82) 4-Chlorotoluene	13.218	91	157925	20.405	ug/l	98
83) tert-Butylbenzene	13.435	119	140205	19.923	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	178481	21.370	ug/l	97
85) sec-Butylbenzene	13.612	105	202909	20.804	ug/l	100
86) p-Isopropyltoluene	13.729	119	167070	20.523	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	97119	19.896	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	98065	19.382	ug/l	99
89) n-Butylbenzene	14.053	91	130043	18.585	ug/l	98
90) Hexachloroethane	14.329	117	35354	19.041	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	95513	19.617	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13567	20.732	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	39645	17.519	ug/l	96
94) Hexachlorobutadiene	15.500	225	20609	17.154	ug/l	98
95) Naphthalene	15.641	128	123413	18.276	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	41163	17.977	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085651.D
Acq On : 04 Feb 2025 14:51
Operator : JC\MD
Sample : VN0204WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:04:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

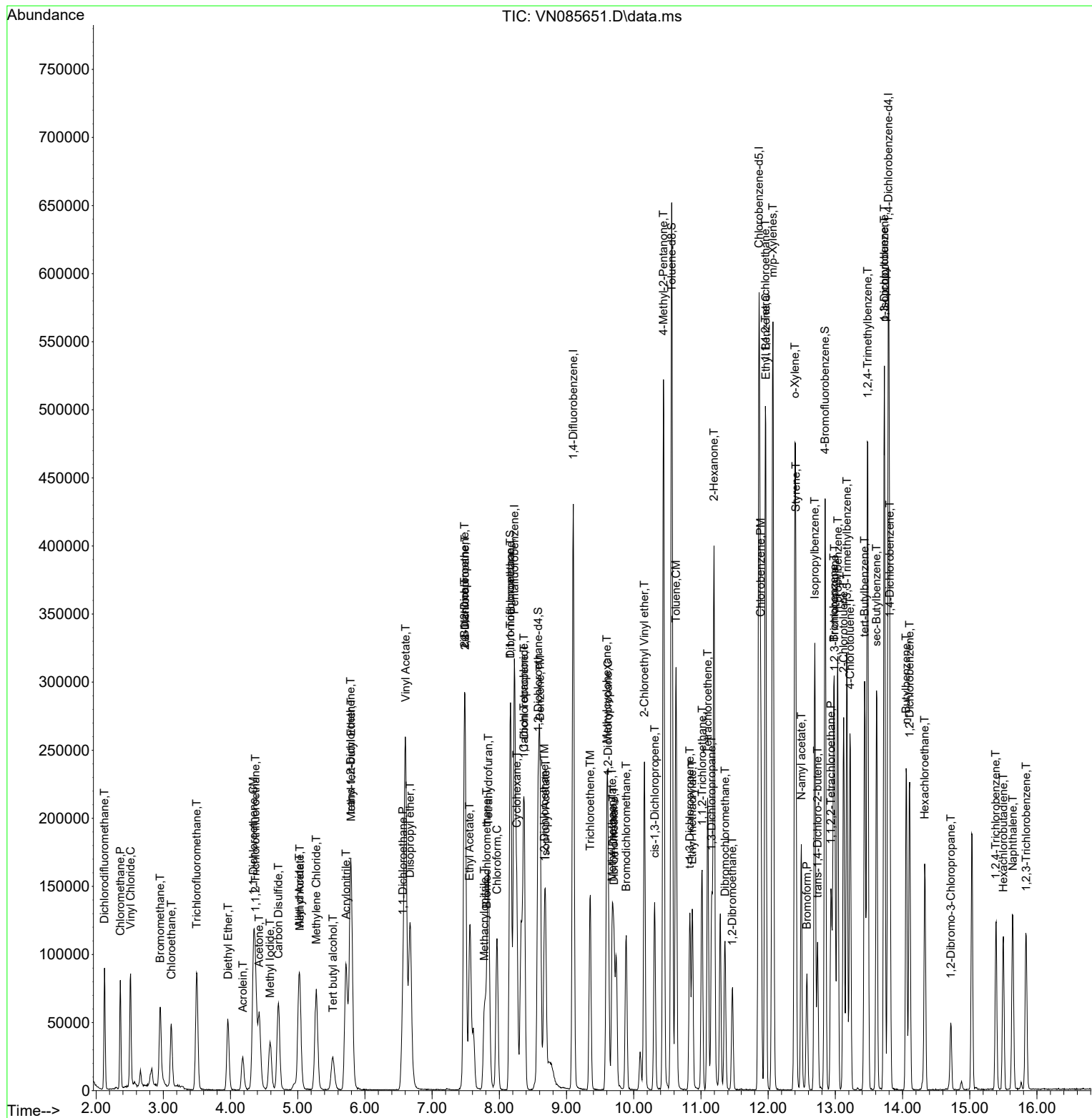
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Data File : VN085651.D
Acq On : 04 Feb 2025 14:51
Operator : JC\MD
Sample : VN0204WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

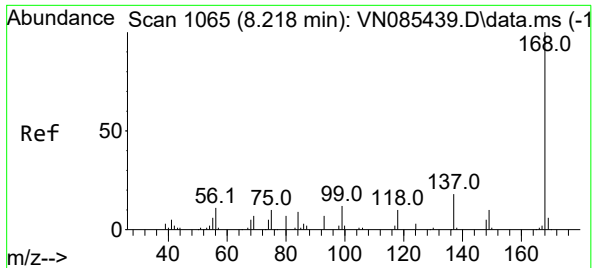
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:04:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration





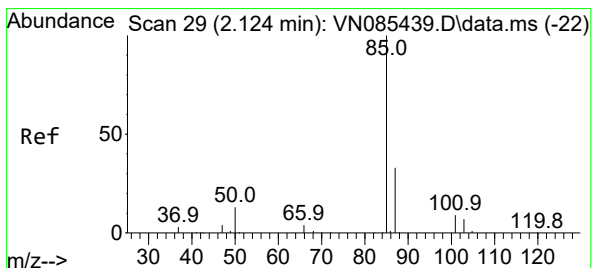
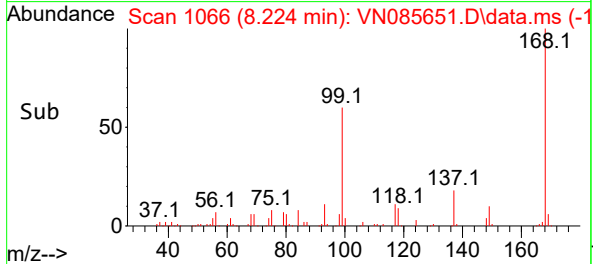
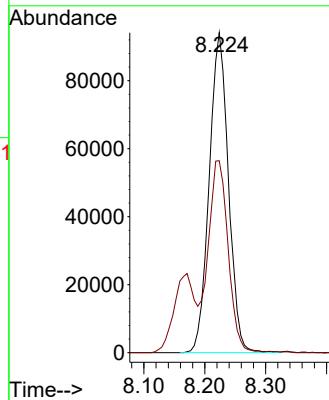
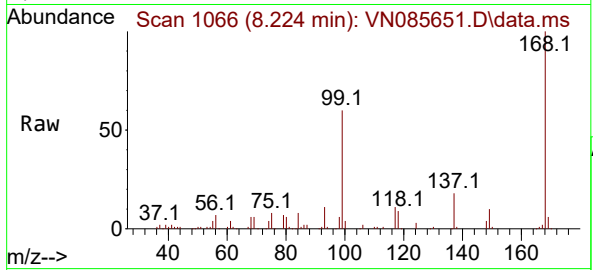
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:168 Resp: 20640
Ion Ratio Lower Upper
168 100
99 59.8 53.6 80.4

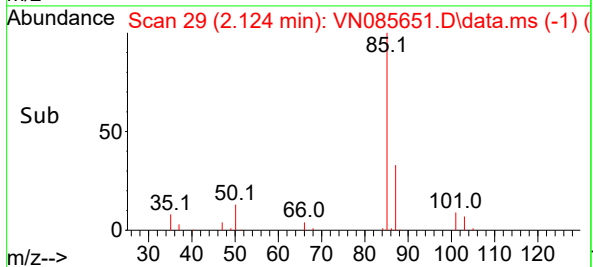
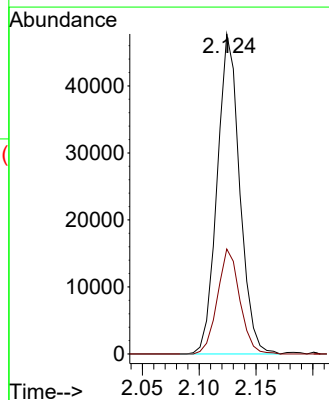
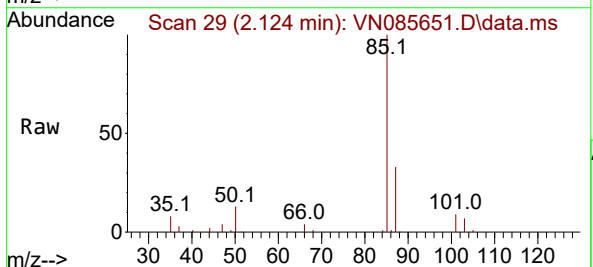
Manual Integrations
APPROVED

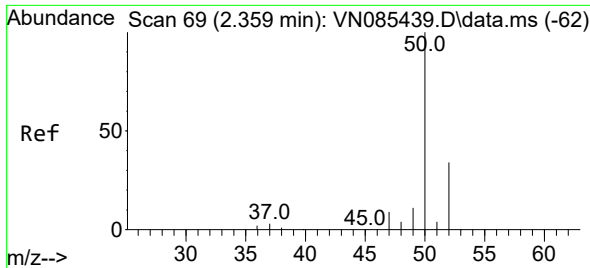
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#2
Dichlorodifluoromethane
Concen: 23.616 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 85 Resp: 65996
Ion Ratio Lower Upper
85 100
87 32.8 16.7 50.1





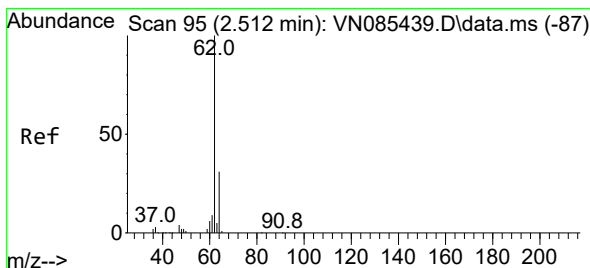
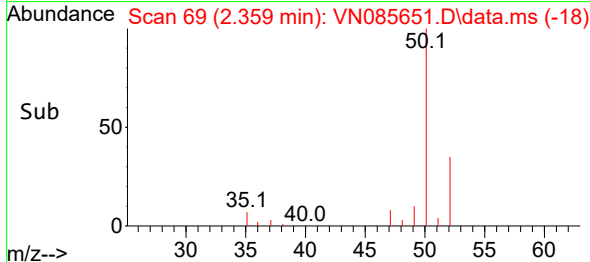
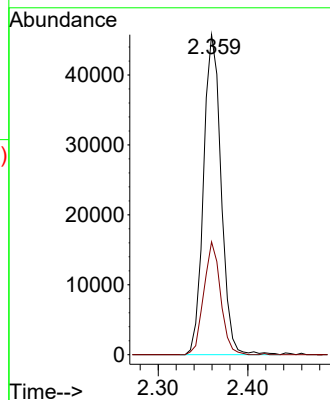
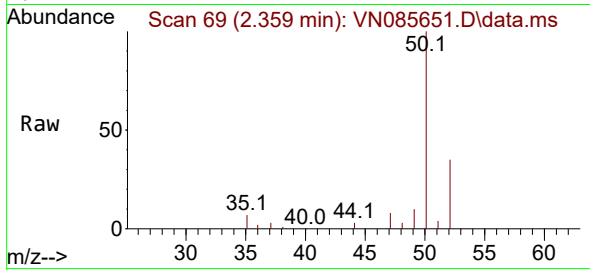
#3
Chloromethane
Concen: 20.580 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 50 Resp: 62270
Ion Ratio Lower Upper
50 100
52 35.3 27.0 40.6

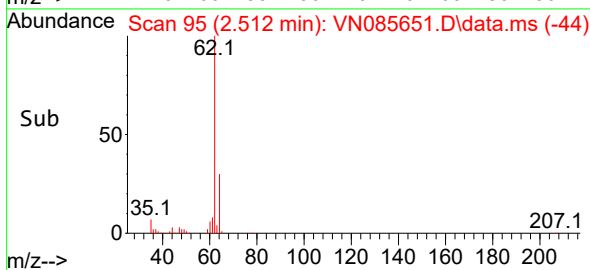
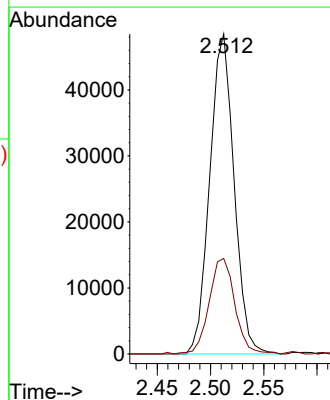
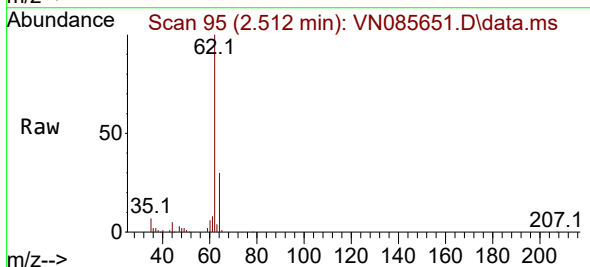
Manual Integrations
APPROVED

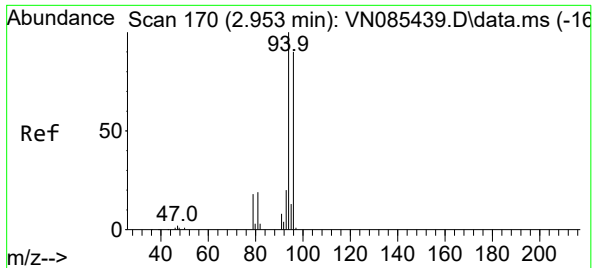
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#4
Vinyl Chloride
Concen: 25.222 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 62 Resp: 76709
Ion Ratio Lower Upper
62 100
64 29.8 24.8 37.2





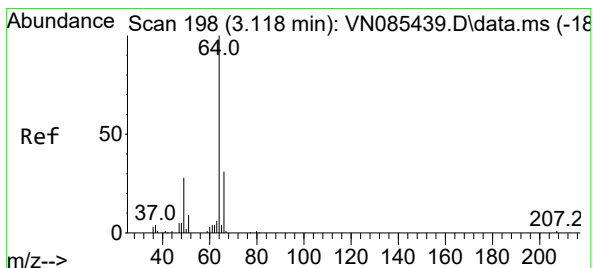
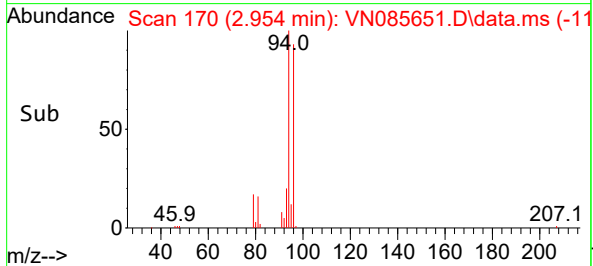
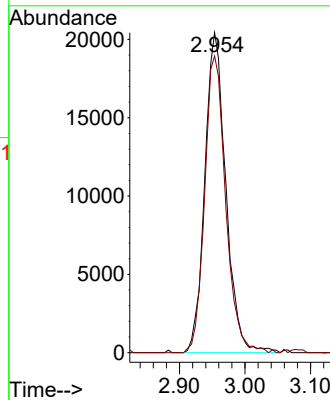
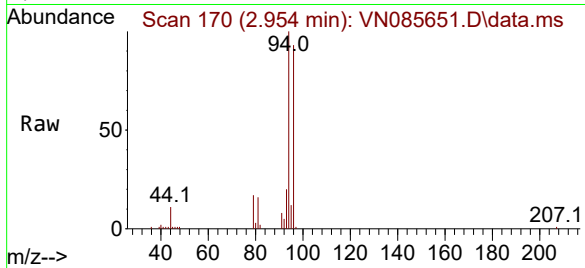
#5
Bromomethane
Concen: 24.786 ug/l
RT: 2.954 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 94 Resp: 45534
Ion Ratio Lower Upper
94 100
96 92.7 71.8 107.6

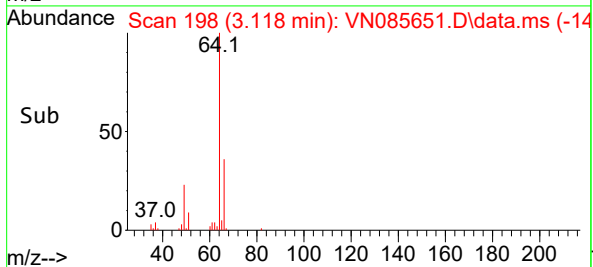
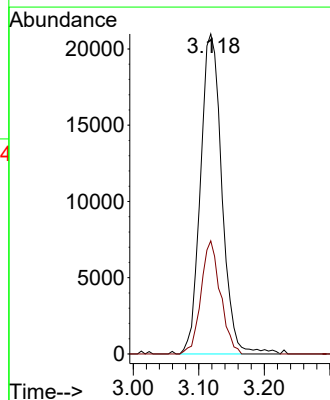
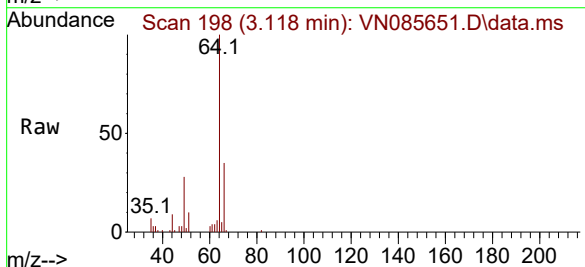
Manual Integrations
APPROVED

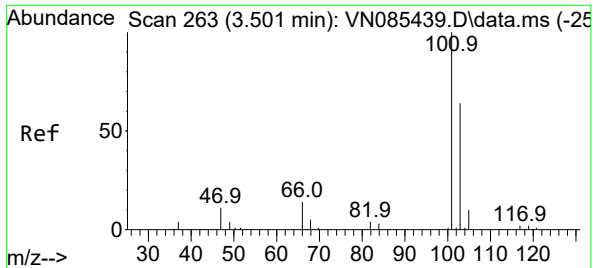
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#6
Chloroethane
Concen: 24.698 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 64 Resp: 47623
Ion Ratio Lower Upper
64 100
66 35.3 24.6 36.8





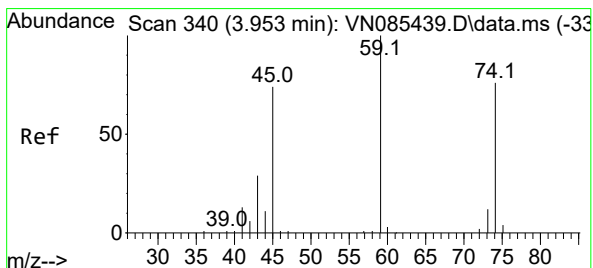
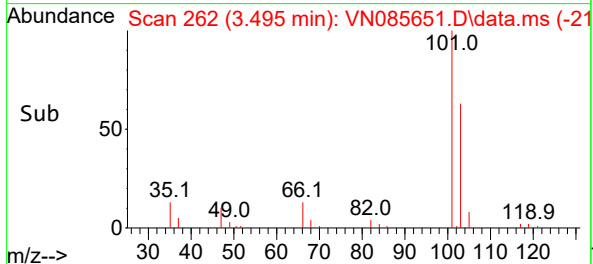
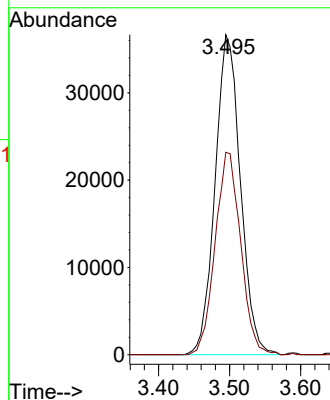
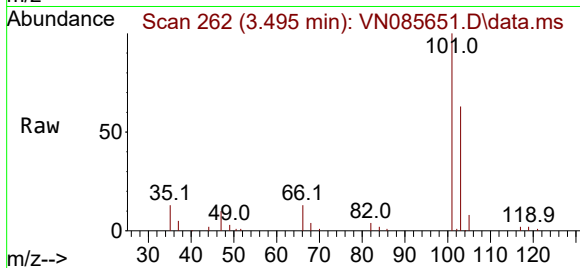
#7
Trichlorofluoromethane
Concen: 20.577 ug/l
RT: 3.495 min Scan# 210
Delta R.T. -0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:101 Resp: 9080
Ion Ratio Lower Upper
101 100
103 63.2 51.4 77.2

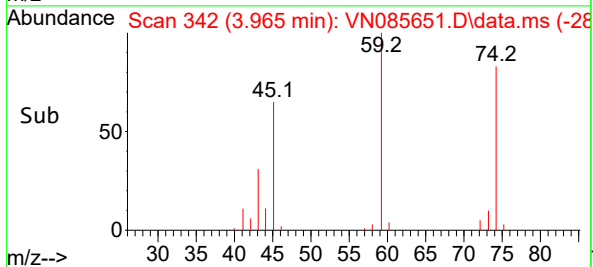
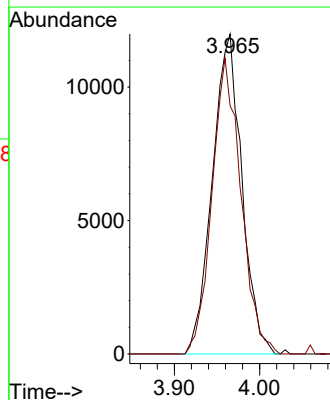
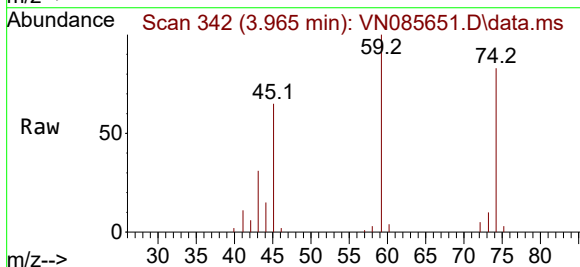
Manual Integrations
APPROVED

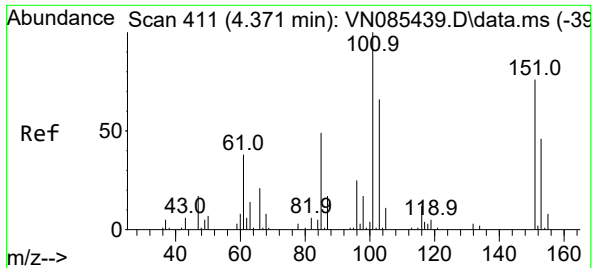
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#8
Diethyl Ether
Concen: 18.901 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 74 Resp: 28815
Ion Ratio Lower Upper
74 100
45 90.7 49.7 149.1





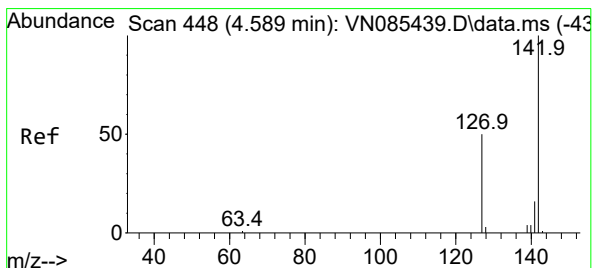
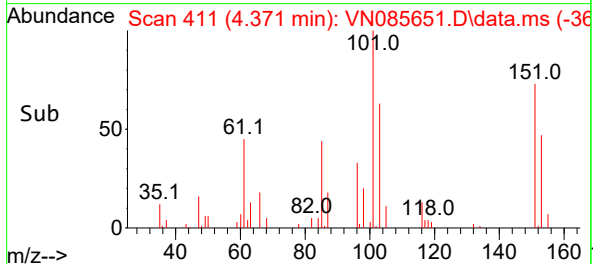
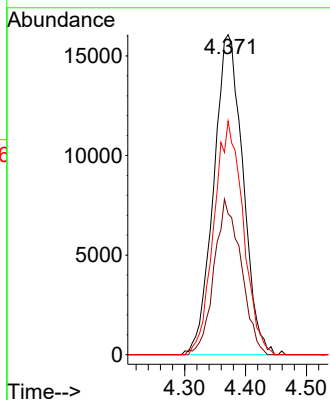
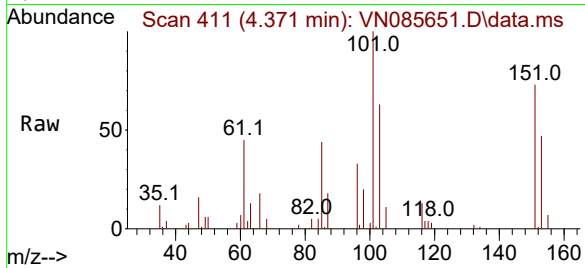
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.535 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:101 Resp: 5352
Ion Ratio Lower Upper
101 100
85 44.9 37.8 56.8
151 73.3 58.8 88.2

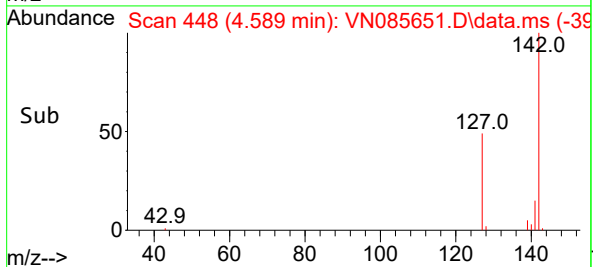
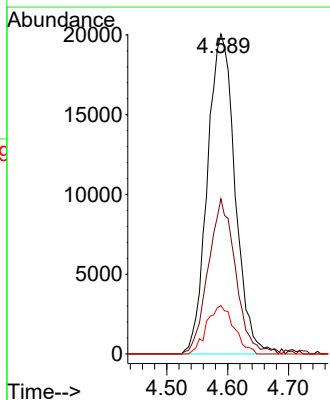
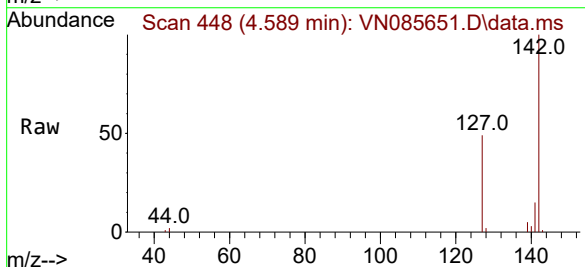
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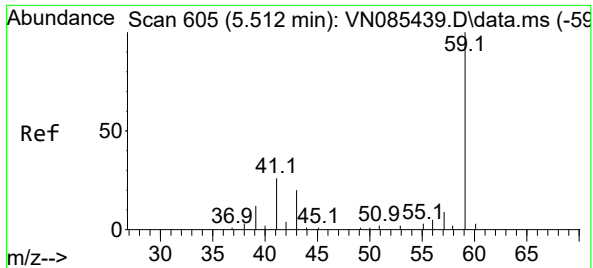
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#10
Methyl Iodide
Concen: 22.224 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:142 Resp: 63259
Ion Ratio Lower Upper
142 100
127 48.5 40.3 60.5
141 15.1 12.8 19.2





#11

Tert butyl alcohol

Concen: 107.962 ug/l

RT: 5.524 min Scan# 605

Delta R.T. 0.012 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 59 Resp: 41188

Ion Ratio Lower Upper

59 100

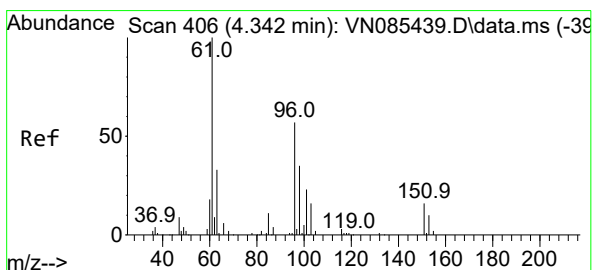
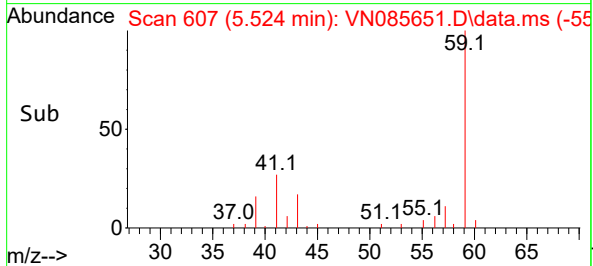
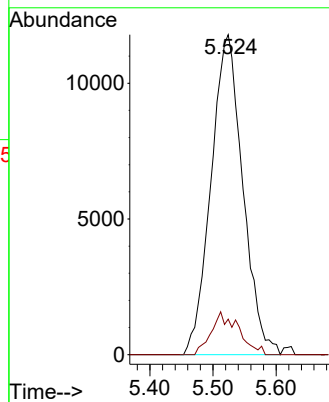
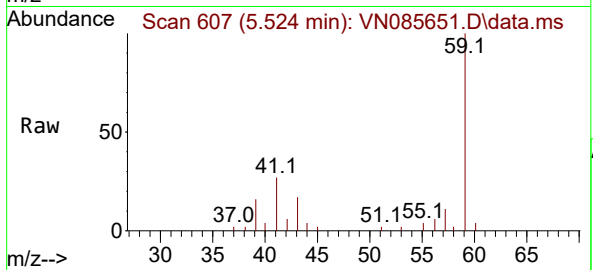
57 11.6 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#12

1,1-Dichloroethene

Concen: 21.557 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

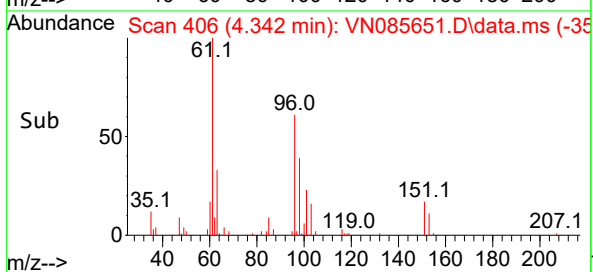
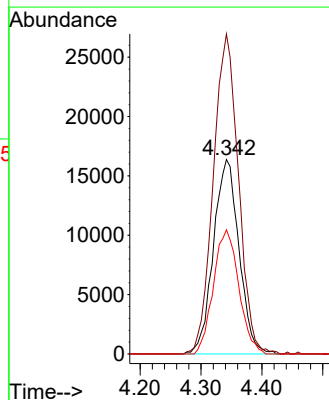
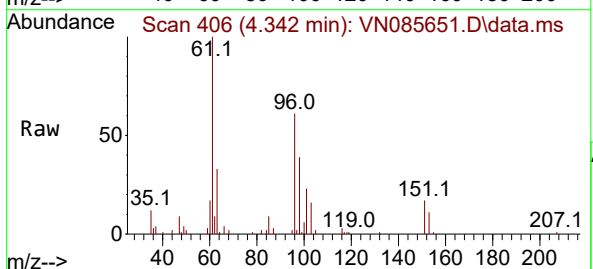
Tgt Ion: 96 Resp: 47753

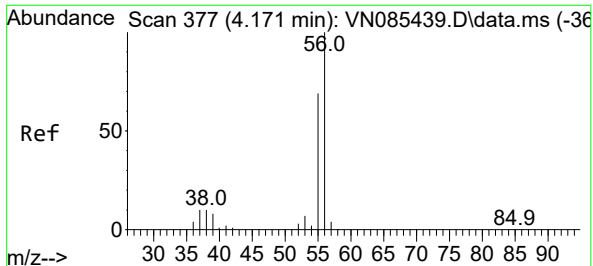
Ion Ratio Lower Upper

96 100

61 164.6 141.0 211.4

98 63.8 49.0 73.6





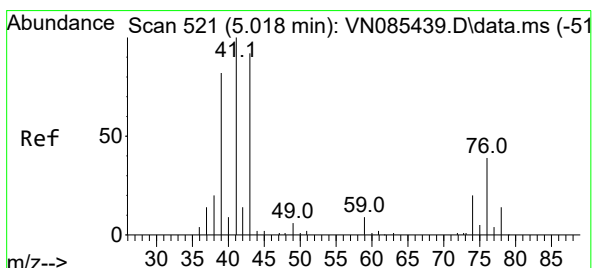
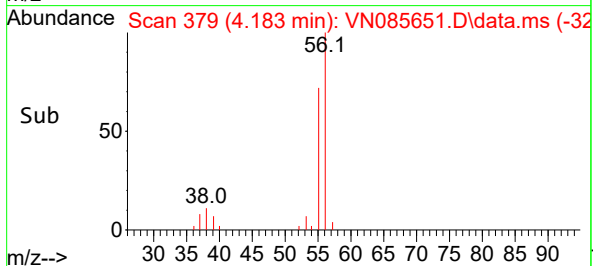
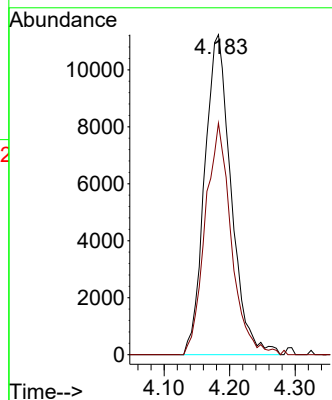
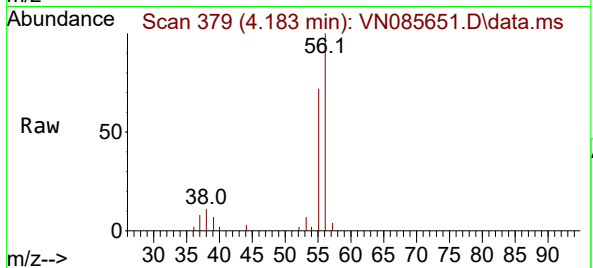
#13
Acrolein
Concen: 60.548 ug/l
RT: 4.183 min Scan# 3153
Delta R.T. 0.012 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 56 Resp: 3153
Ion Ratio Lower Upper
56 100
55 71.3 56.3 84.5

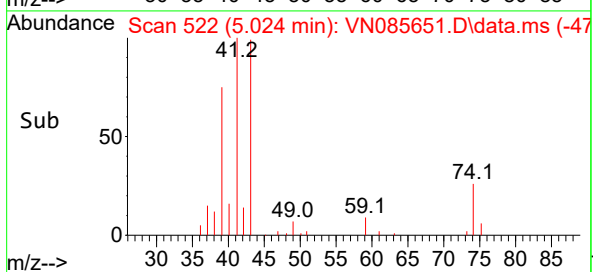
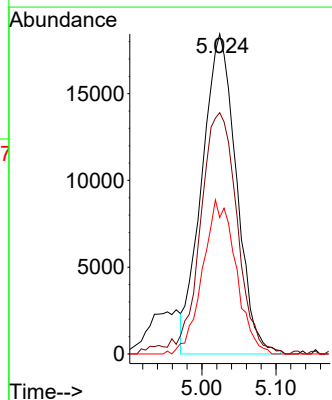
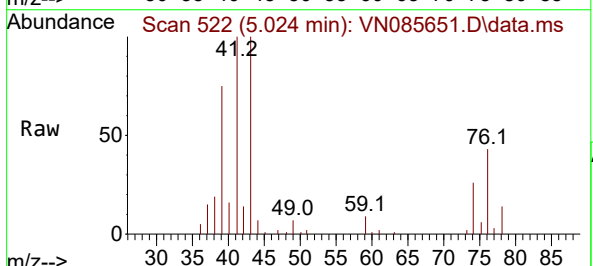
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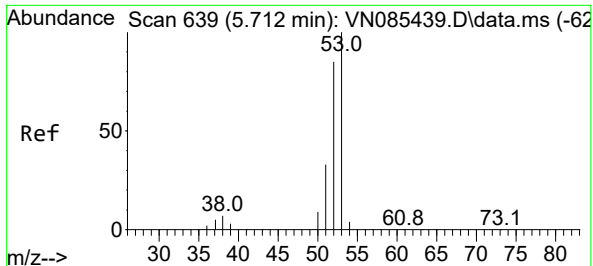
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#14
Allyl chloride
Concen: 16.597 ug/l m
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 41 Resp: 59657
Ion Ratio Lower Upper
41 100
39 81.4 64.4 96.6
76 46.5 30.5 45.7#





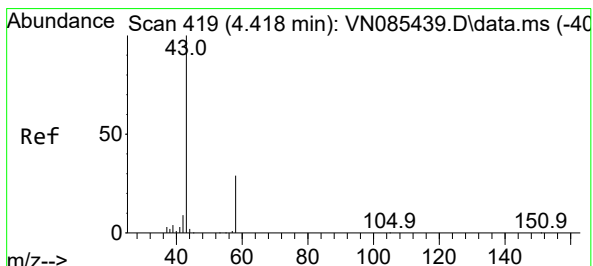
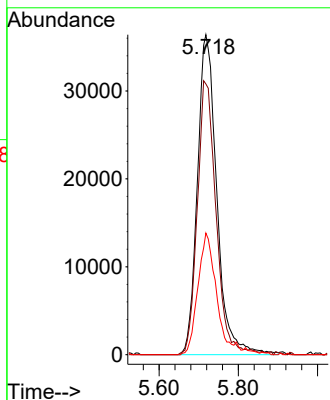
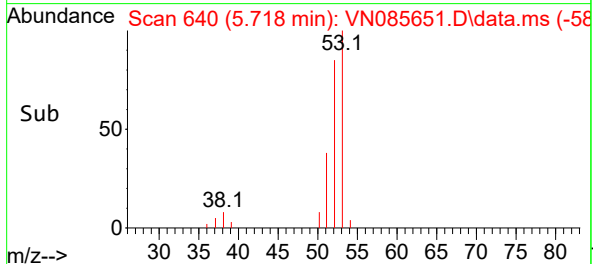
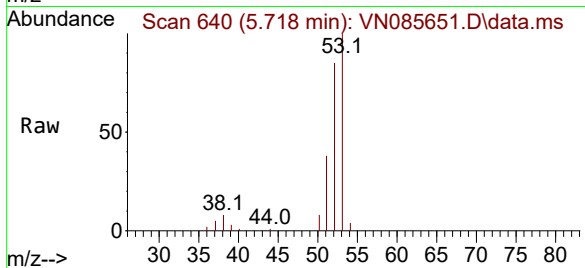
#15
Acrylonitrile
Concen: 102.213 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 53 Resp: 123860
Ion Ratio Lower Upper
53 100
52 82.8 65.5 98.3
51 36.5 29.8 44.8

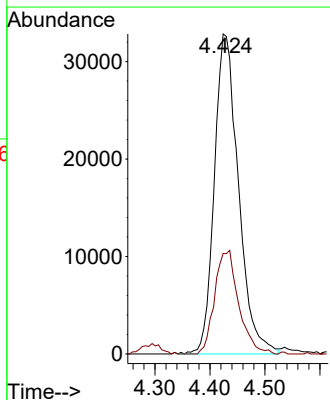
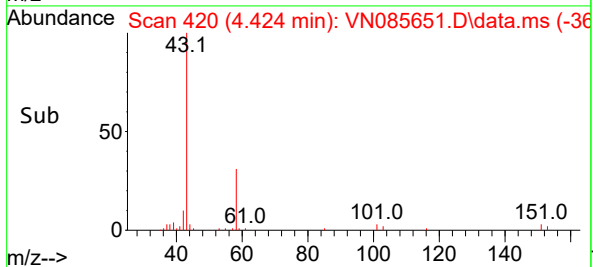
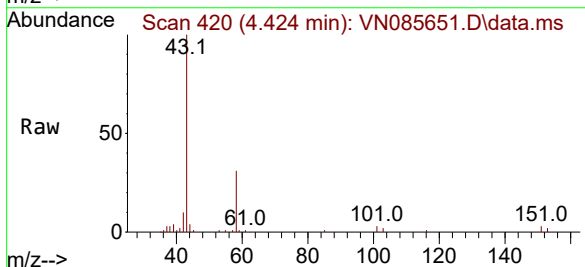
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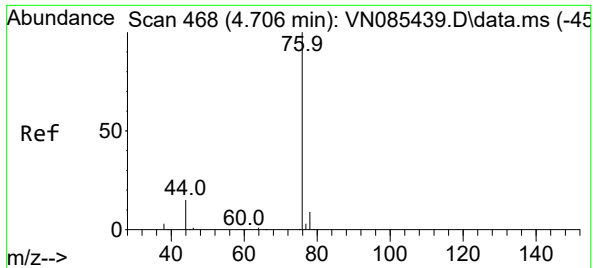
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#16
Acetone
Concen: 92.999 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 43 Resp: 100115
Ion Ratio Lower Upper
43 100
58 31.4 23.8 35.6





#17

Carbon Disulfide

Concen: 21.613 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 76 Resp: 147410

Ion Ratio Lower Upper

76 100

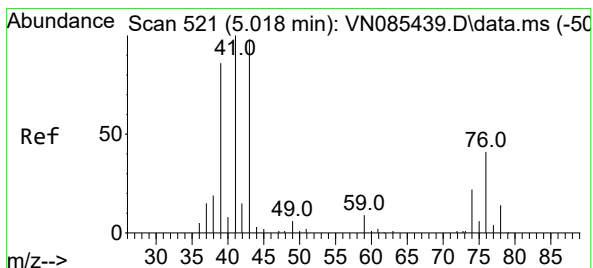
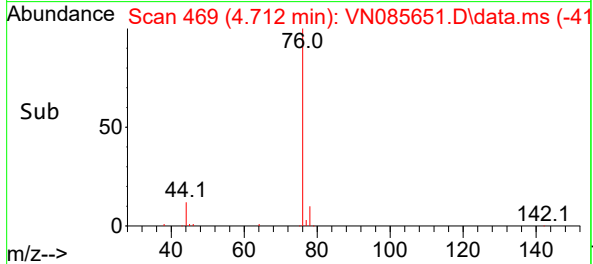
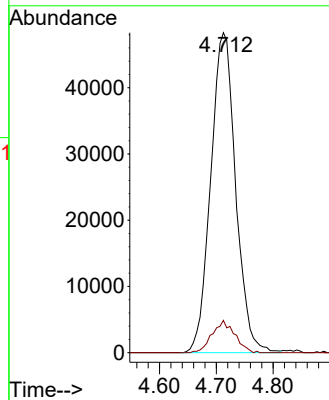
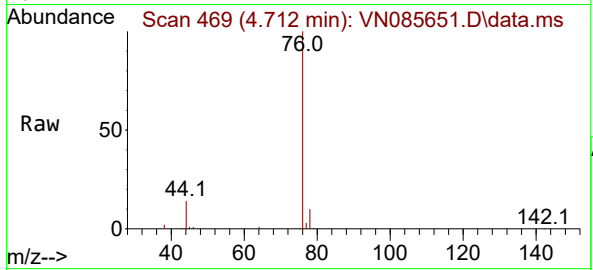
78 10.1 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#18

Methyl Acetate

Concen: 18.995 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085651.D

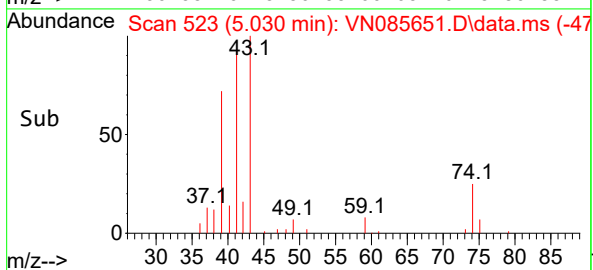
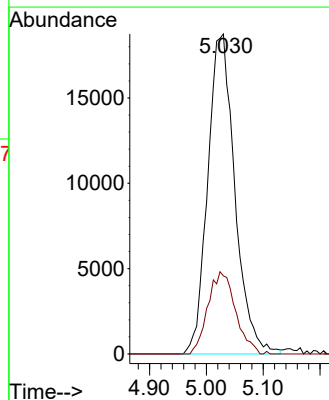
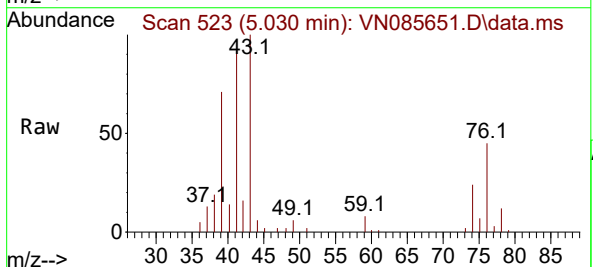
Acq: 04 Feb 2025 14:51

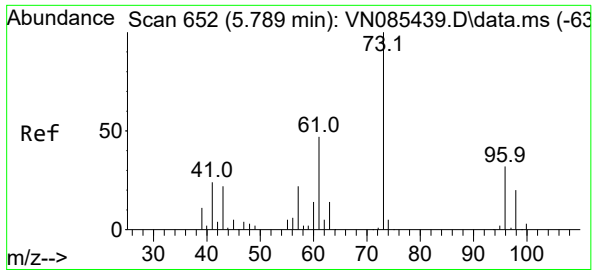
Tgt Ion: 43 Resp: 62179

Ion Ratio Lower Upper

43 100

74 26.0 18.6 28.0





#19

Methyl tert-butyl Ether

Concen: 20.281 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 73 Resp: 145880

Ion Ratio Lower Upper

73 100

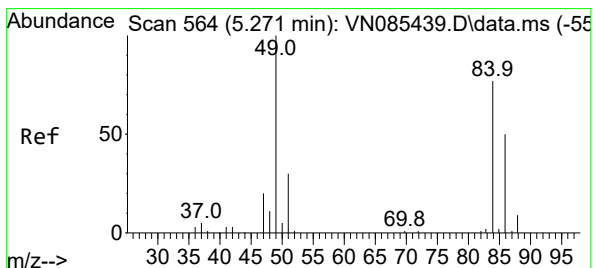
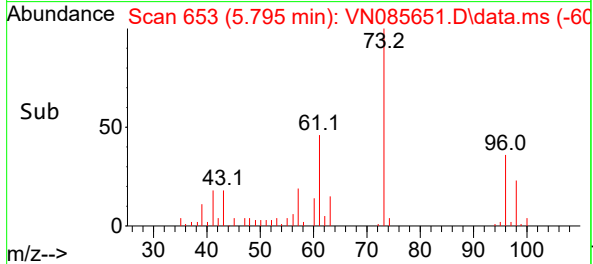
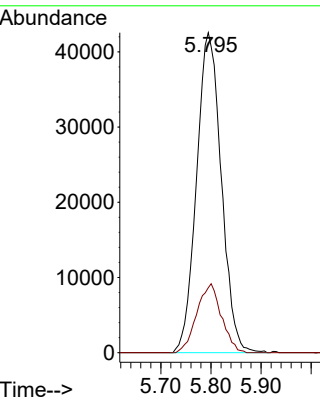
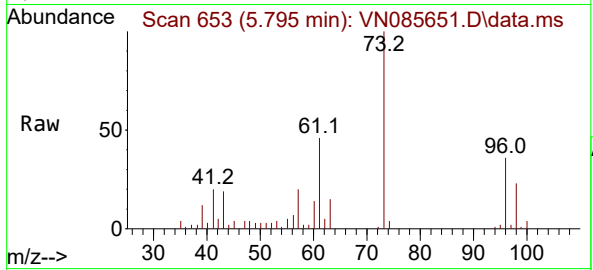
57 20.3 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#20

Methylene Chloride

Concen: 21.322 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion: 84 Resp: 56823

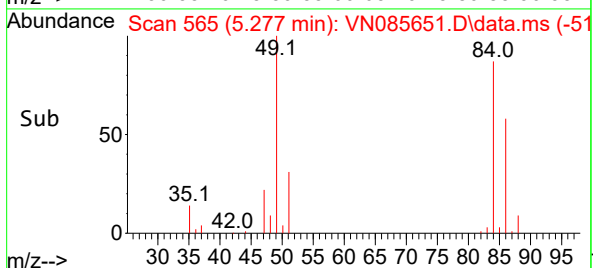
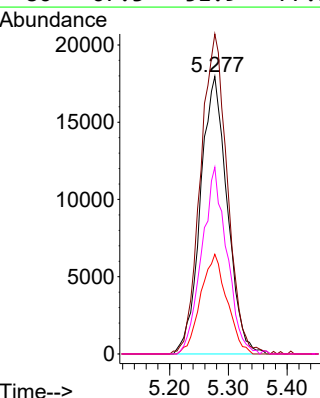
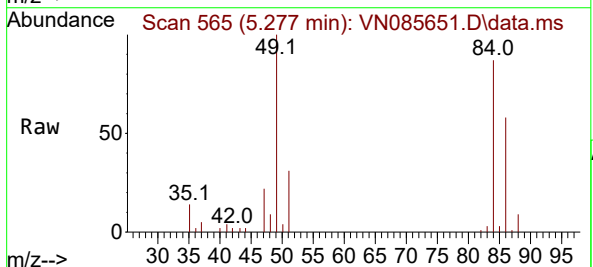
Ion Ratio Lower Upper

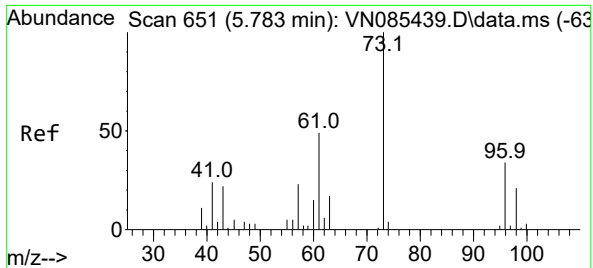
84 100

49 115.3 104.1 156.1

51 36.0 31.0 46.4

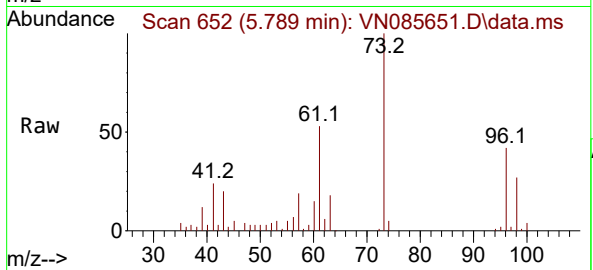
86 67.3 51.9 77.9





#21
trans-1,2-Dichloroethene
Concen: 21.589 ug/l
RT: 5.789 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

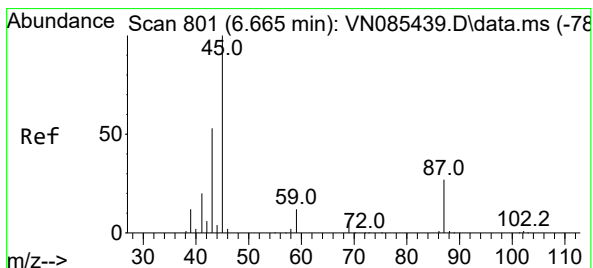
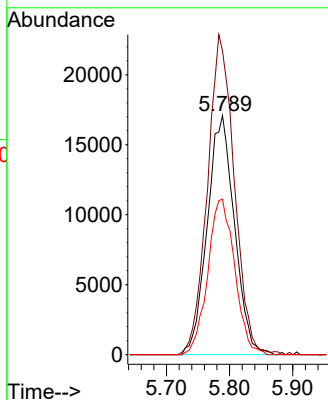
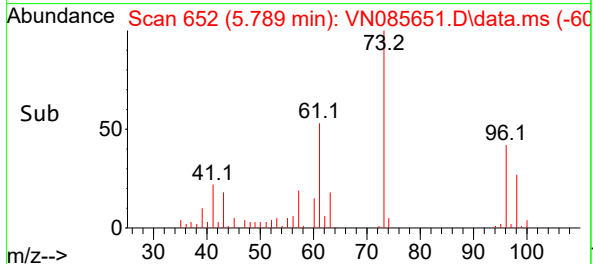
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



Tgt Ion: 96 Resp: 51109
Ion Ratio Lower Upper
96 100
61 126.9 115.7 173.5
98 65.0 49.8 74.8

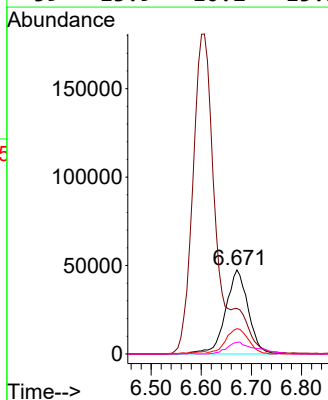
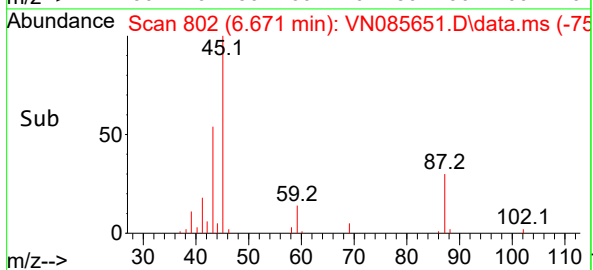
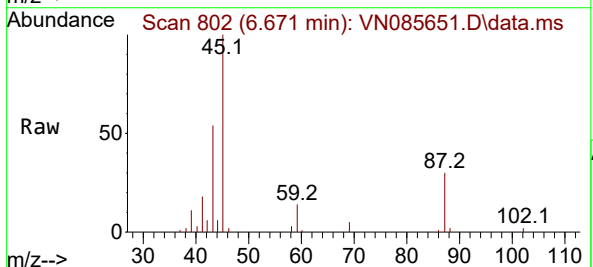
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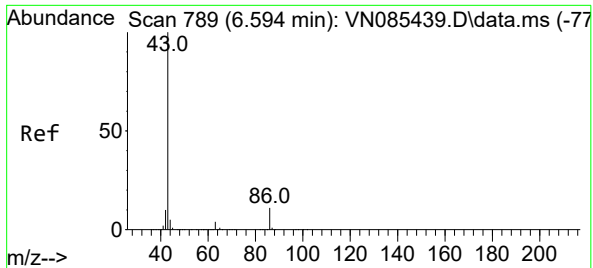
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#22
Diisopropyl ether
Concen: 18.571 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 45 Resp: 148162
Ion Ratio Lower Upper
45 100
43 51.9 45.0 67.6
87 29.7 21.8 32.8
59 13.9 10.2 15.2





#23

Vinyl Acetate

Concen: 95.530 ug/l

RT: 6.606 min Scan# 791

Delta R.T. 0.012 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 43 Resp: 533384

Ion Ratio Lower Upper

43 100

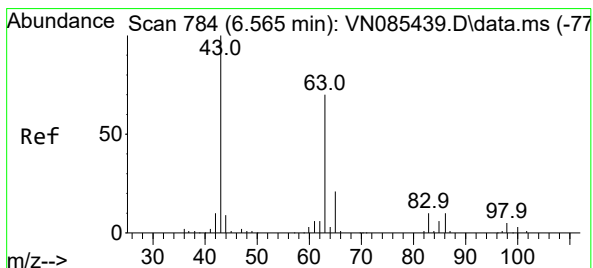
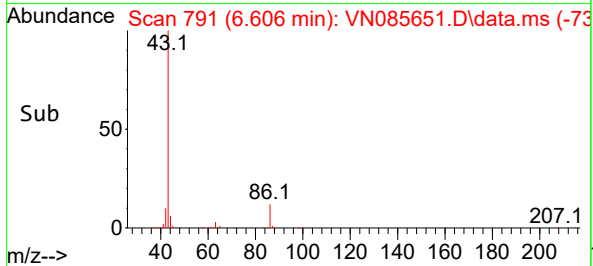
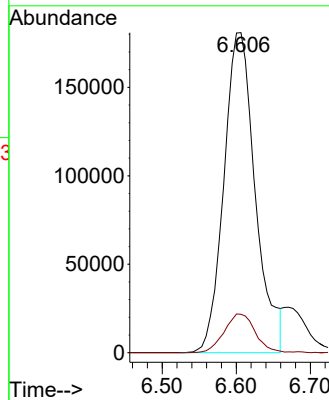
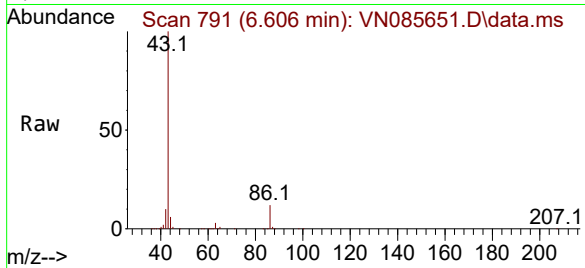
86 12.0 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#24

1,1-Dichloroethane

Concen: 19.783 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

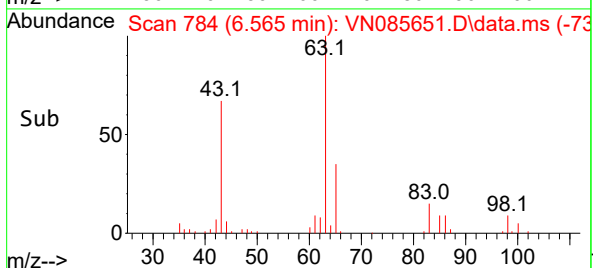
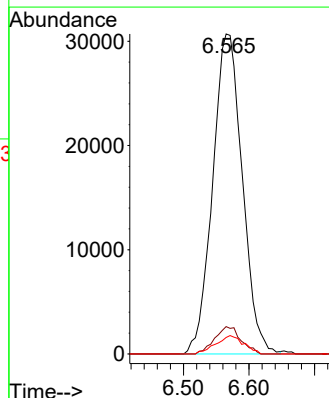
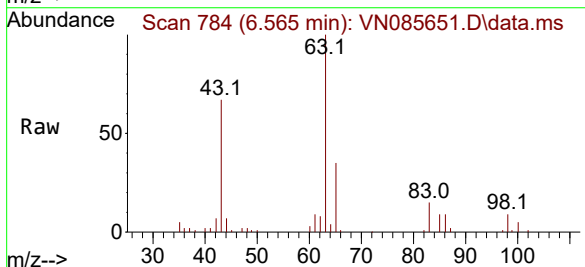
Tgt Ion: 63 Resp: 96240

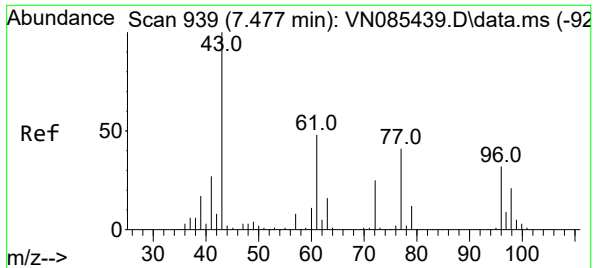
Ion Ratio Lower Upper

63 100

98 8.5 3.3 9.8

100 5.1 2.0 6.0





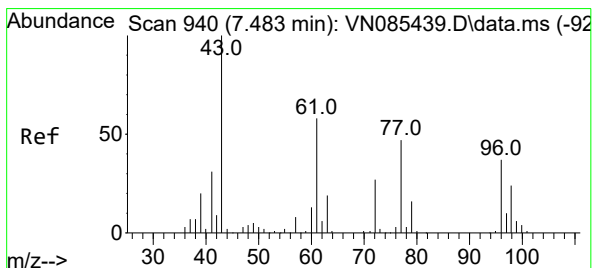
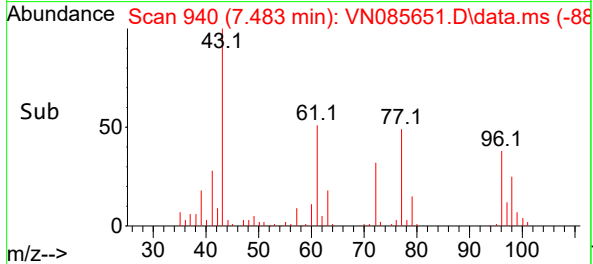
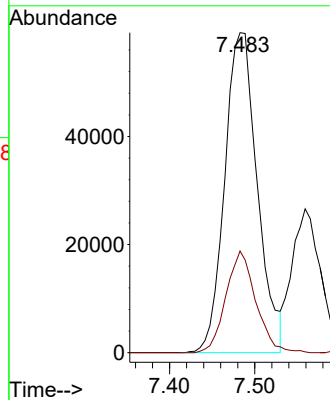
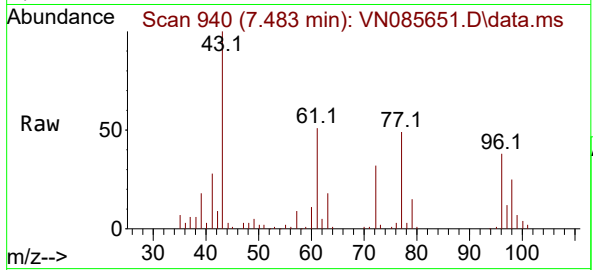
#25
2-Butanone
Concen: 99.409 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 43 Resp: 157483
Ion Ratio Lower Upper
43 100
72 31.8 20.2 30.4

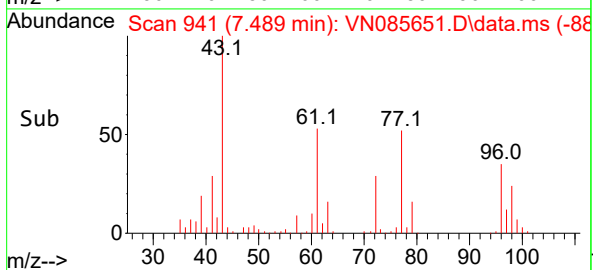
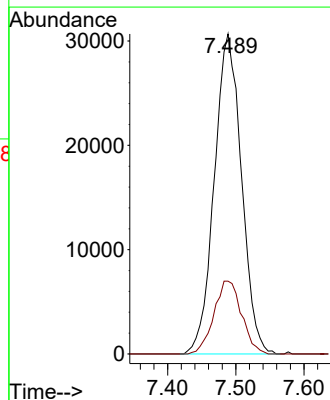
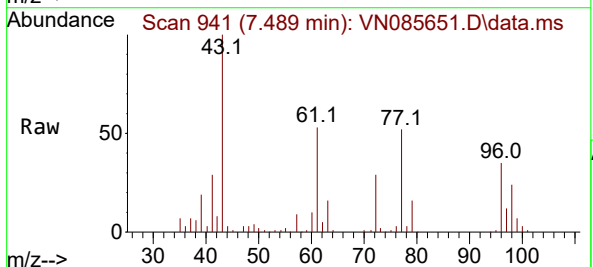
Manual Integrations
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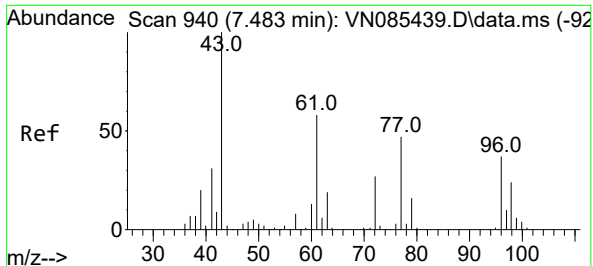
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#26
2,2-Dichloropropane
Concen: 21.614 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 77 Resp: 85009
Ion Ratio Lower Upper
77 100
97 23.2 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 21.035 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 96 Resp: 5865

Ion Ratio Lower Upper

96 100

61 143.5 0.0 311.8

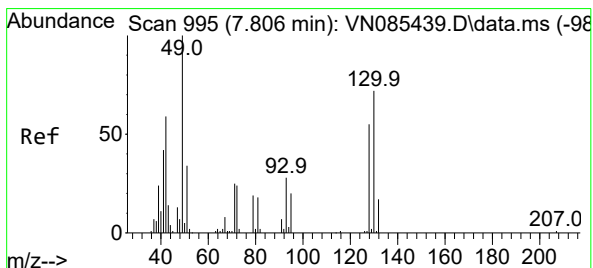
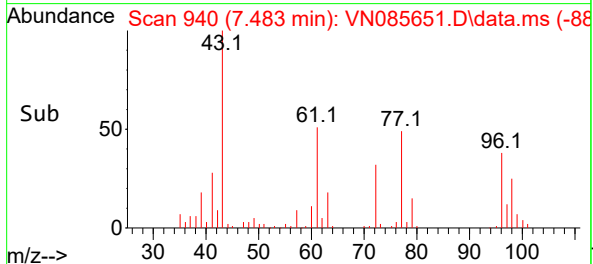
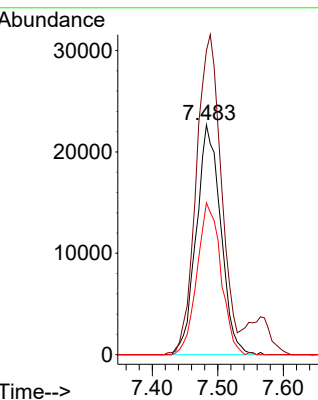
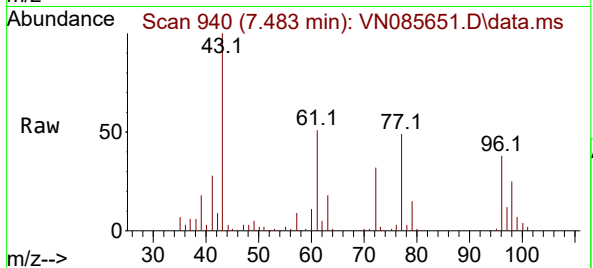
98 64.7 0.0 126.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#28

Bromochloromethane

Concen: 14.596 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

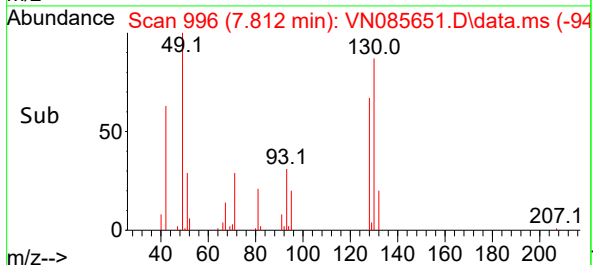
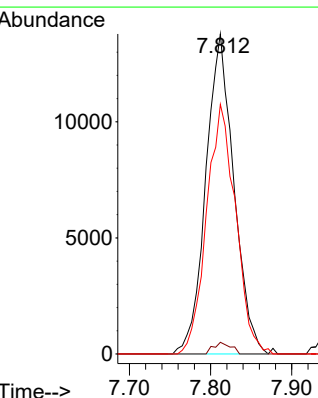
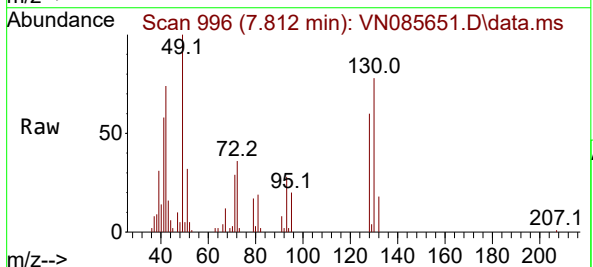
Tgt Ion: 49 Resp: 33036

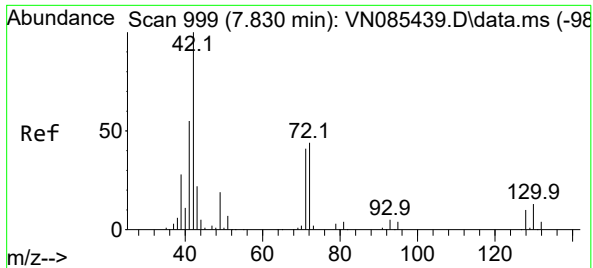
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 80.8 55.0 82.4





#29

Tetrahydrofuran

Concen: 102.187 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 42 Resp: 10263

Ion Ratio Lower Upper

42 100

72 50.0 34.2 51.2

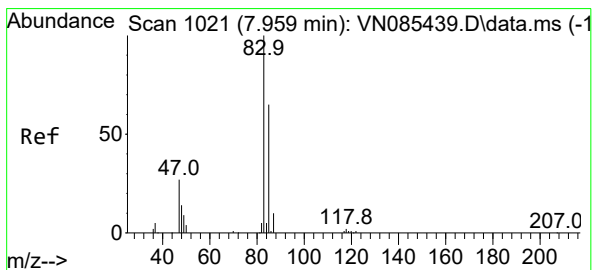
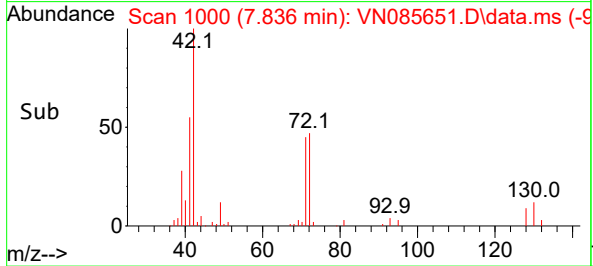
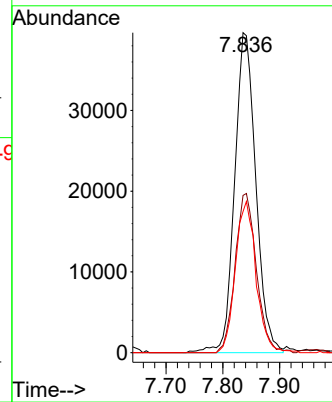
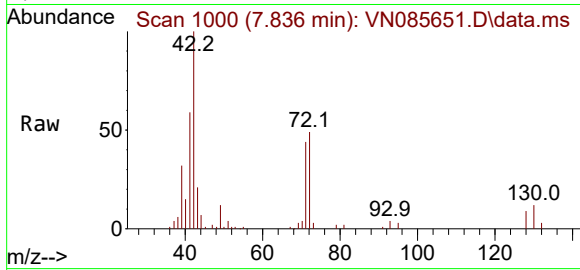
71 46.2 32.5 48.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#30

Chloroform

Concen: 20.142 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085651.D

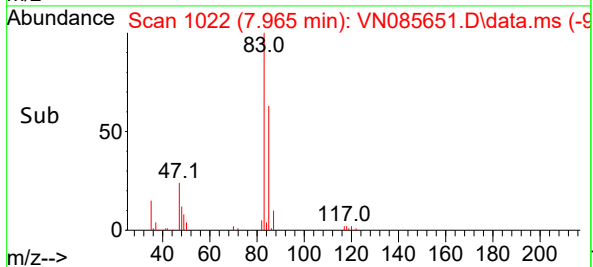
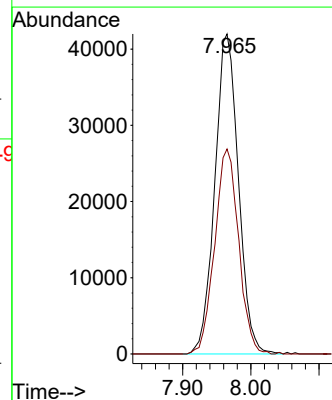
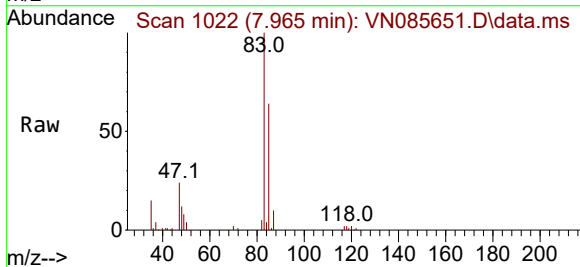
Acq: 04 Feb 2025 14:51

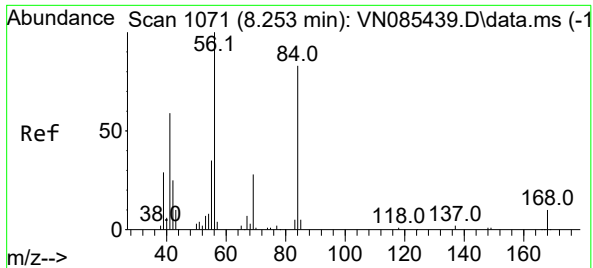
Tgt Ion: 83 Resp: 101271

Ion Ratio Lower Upper

83 100

85 64.0 51.8 77.6





#31

Cyclohexane

Concen: 18.606 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 56 Resp: 7867

Ion Ratio Lower Upper

56 100

69 31.0 22.2 33.4

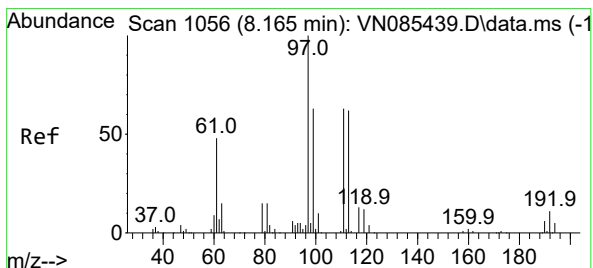
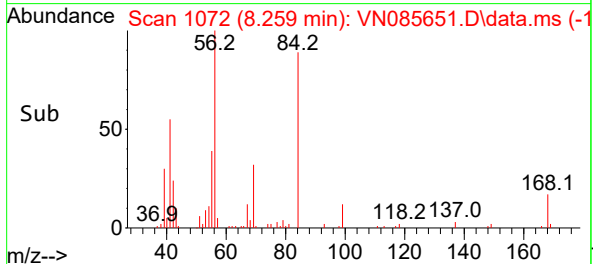
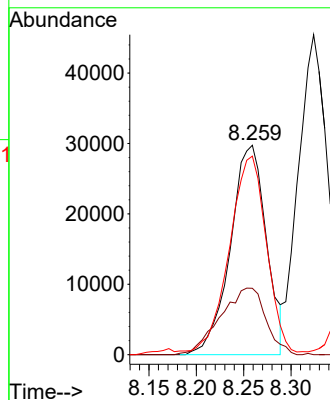
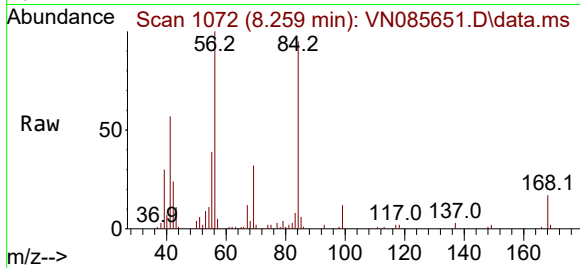
84 93.0 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#32

1,1,1-Trichloroethane

Concen: 19.996 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

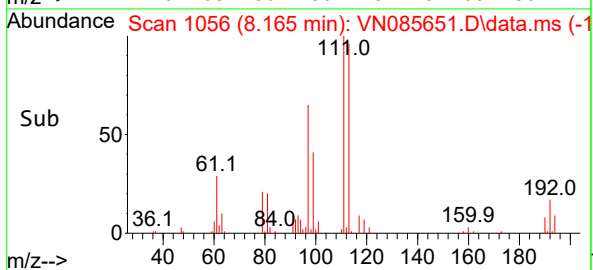
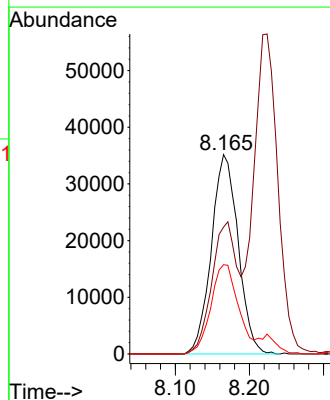
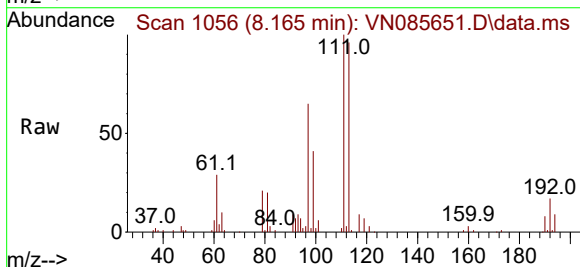
Tgt Ion: 97 Resp: 88190

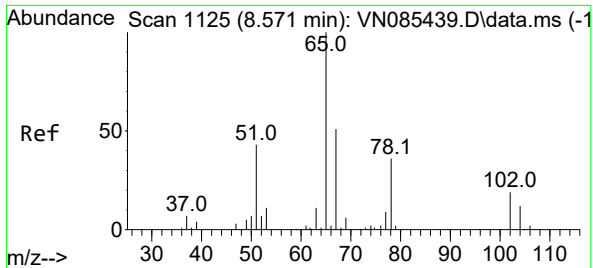
Ion Ratio Lower Upper

97 100

99 62.7 49.8 74.6

61 46.1 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 45.172 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 65 Resp: 150502

Ion Ratio Lower Upper

65 100

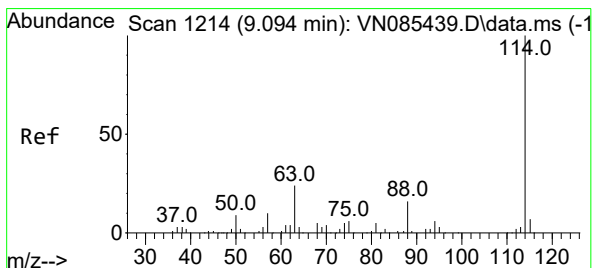
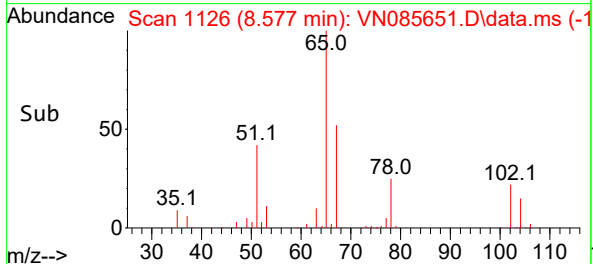
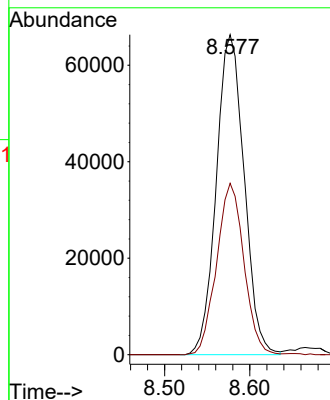
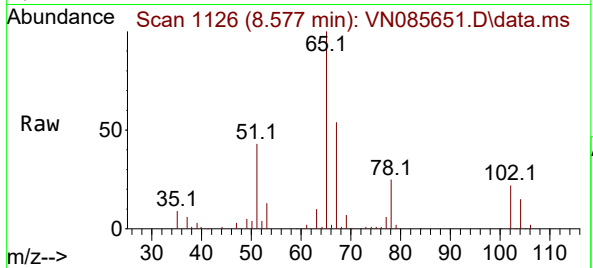
67 52.5 0.0 101.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

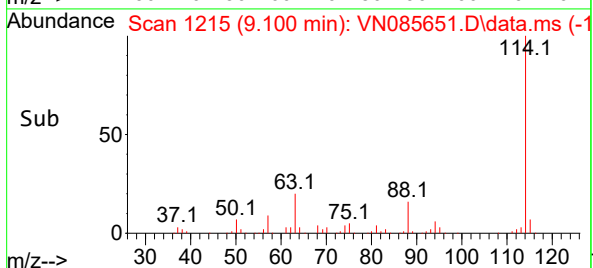
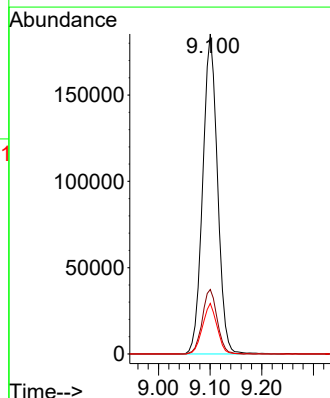
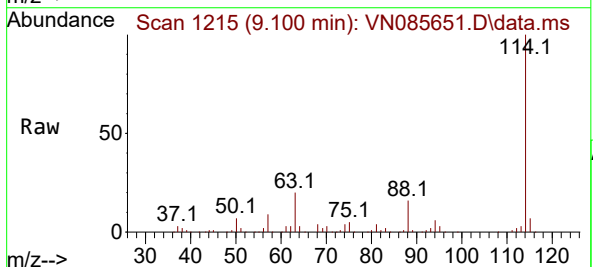
Tgt Ion:114 Resp: 367320

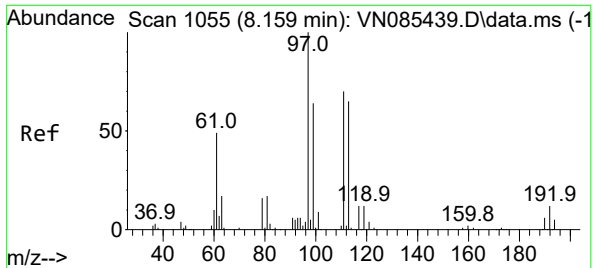
Ion Ratio Lower Upper

114 100

63 20.2 0.0 47.6

88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.743 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion:113 Resp: 12421

Ion Ratio Lower Upper

113 100

111 104.9 82.7 124.1

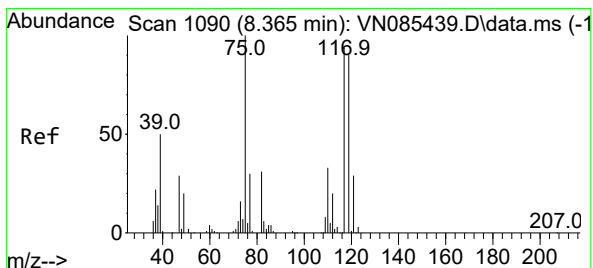
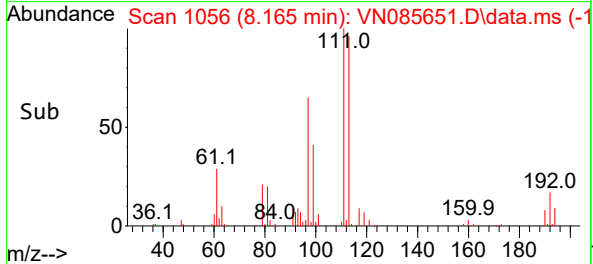
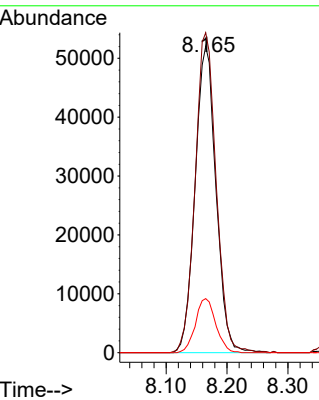
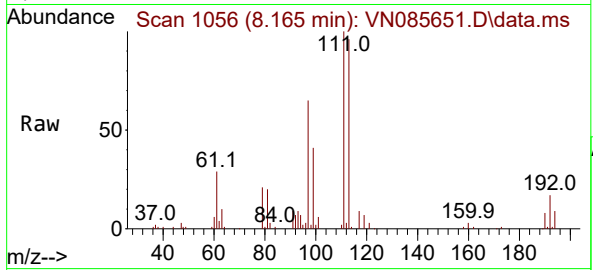
192 17.1 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#36

1,1-Dichloropropene

Concen: 19.652 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

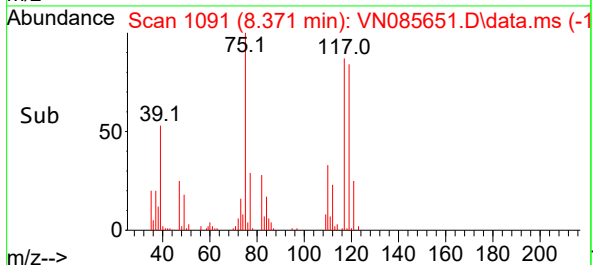
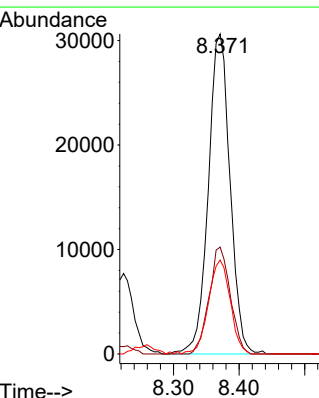
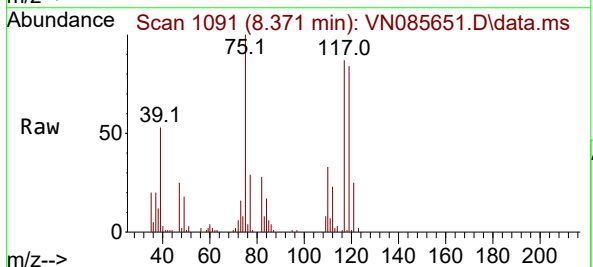
Tgt Ion: 75 Resp: 70286

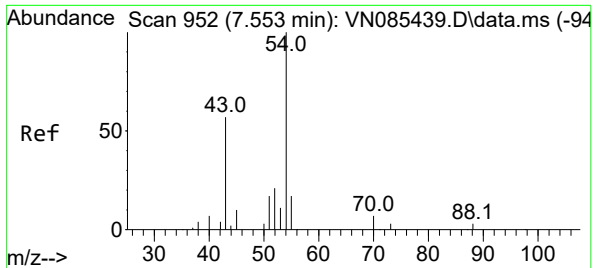
Ion Ratio Lower Upper

75 100

110 32.6 16.5 49.5

77 29.5 24.4 36.6





#37

Ethyl Acetate

Concen: 18.275 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

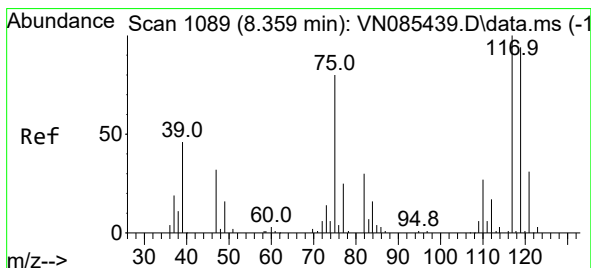
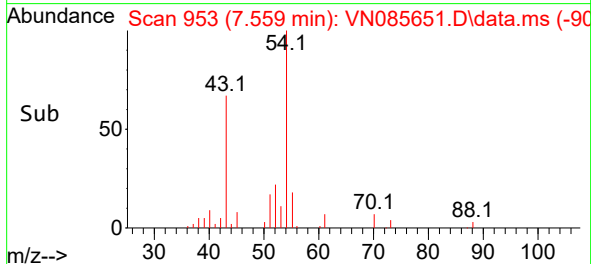
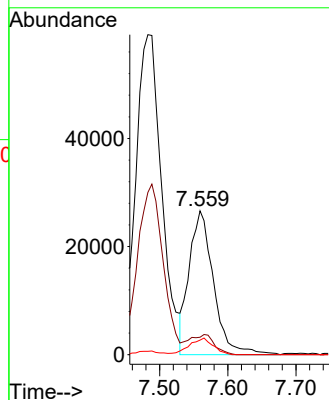
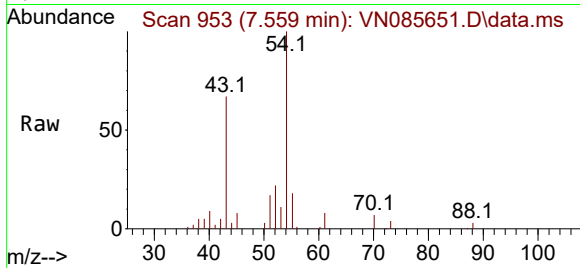
ClientSampleId :

VN0204WBS02

Tgt Ion:	43	Resp:	6597
Ion Ratio	Lower	Upper	
43	100		
61	13.7	10.9	16.3
70	11.3	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#38

Carbon Tetrachloride

Concen: 19.076 ug/l

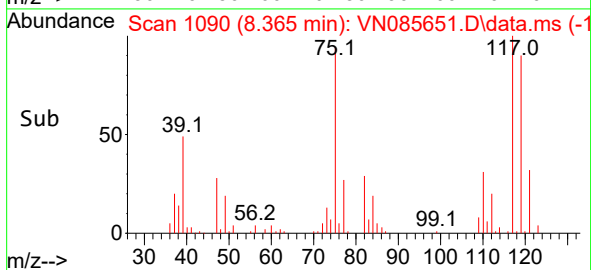
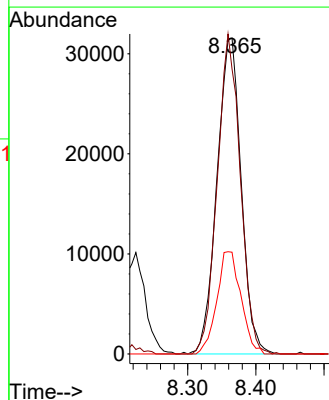
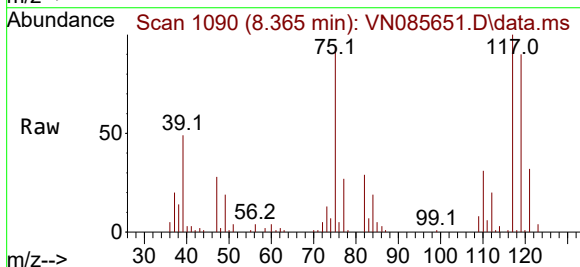
RT: 8.365 min Scan# 1090

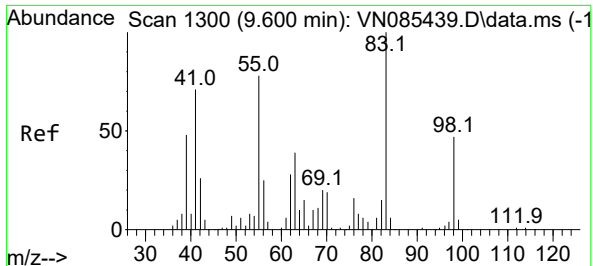
Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion:	117	Resp:	78107
Ion Ratio	Lower	Upper	
117	100		
119	90.2	75.4	113.2
121	32.2	24.6	37.0





#39

Methylcyclohexane

Concen: 20.082 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

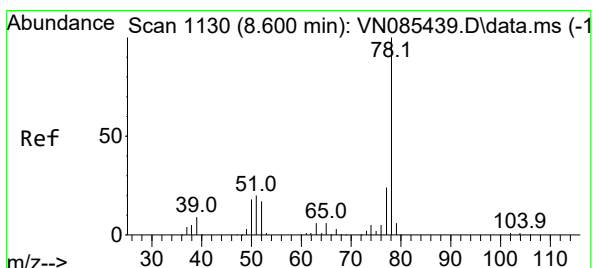
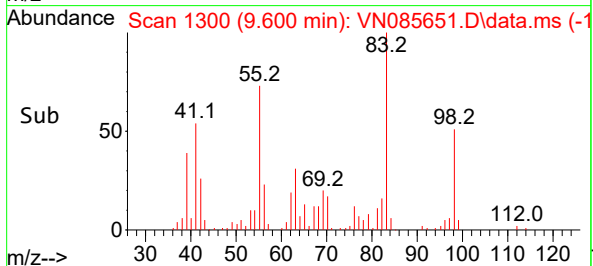
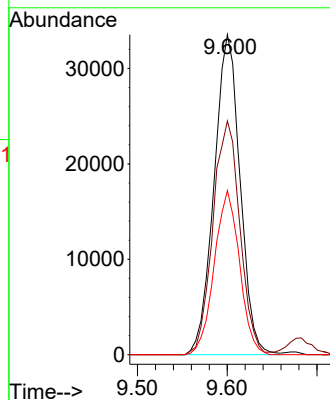
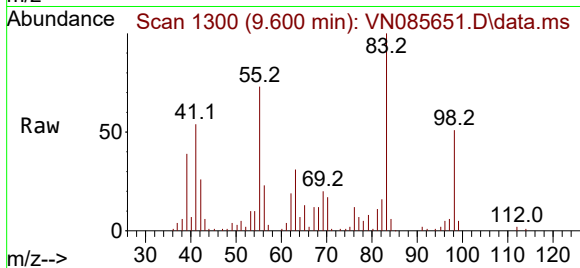
VN0204WBS02

Tgt Ion:	83	Resp:	67494
Ion Ratio	Lower	Upper	
83	100		
55	73.1	62.6	94.0
98	51.3	37.7	56.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#40

Benzene

Concen: 20.639 ug/l

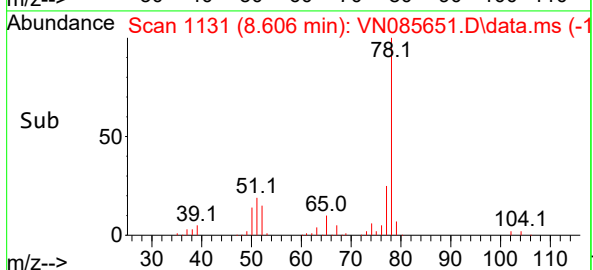
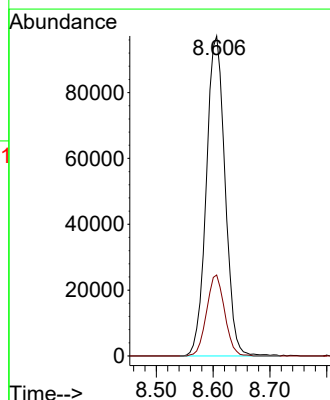
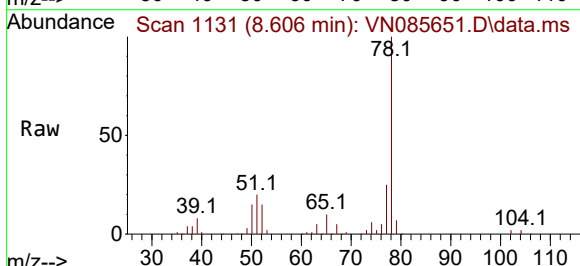
RT: 8.606 min Scan# 1131

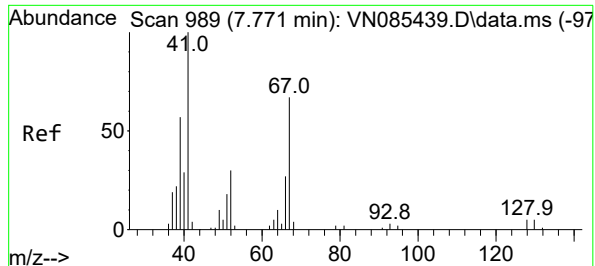
Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion:	78	Resp:	221792
Ion Ratio	Lower	Upper	
78	100		
77	25.3	19.0	28.6





#41

Methacrylonitrile

Concen: 18.274 ug/l

RT: 7.777 min Scan# 989

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 41 Resp: 34320

Ion Ratio Lower Upper

41 100

39 50.0 46.0 69.0

67 80.2 57.4 86.2

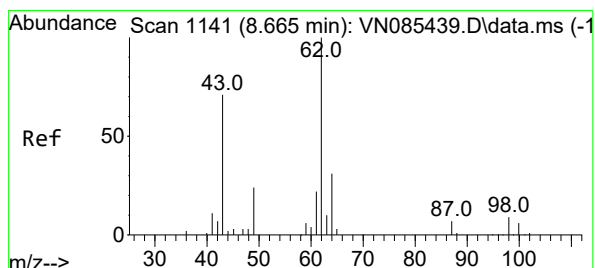
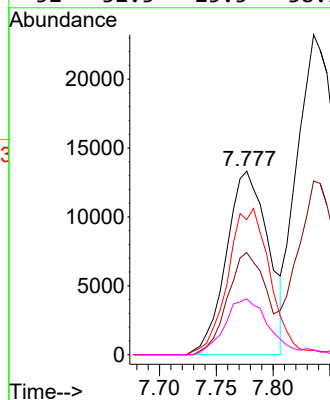
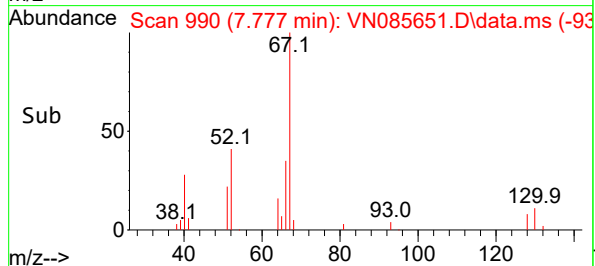
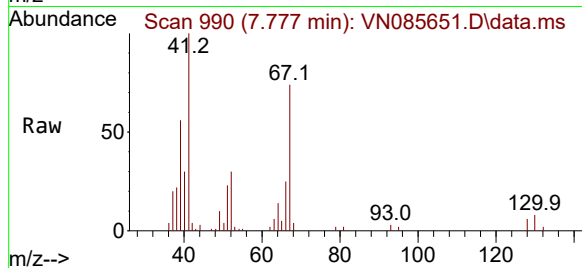
52 32.5 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#42

1,2-Dichloroethane

Concen: 18.179 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085651.D

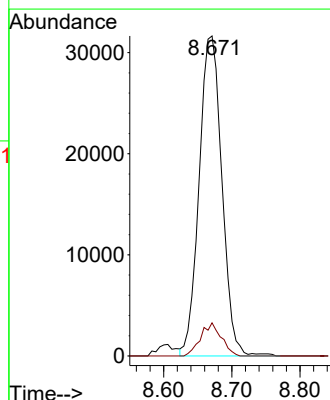
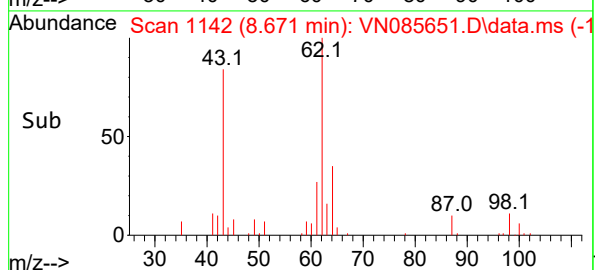
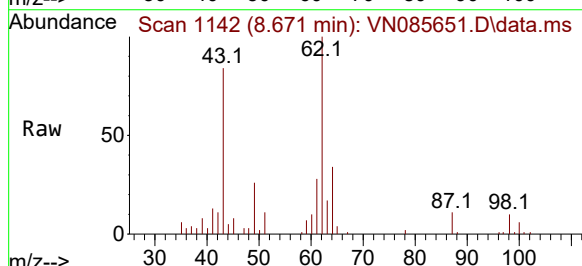
Acq: 04 Feb 2025 14:51

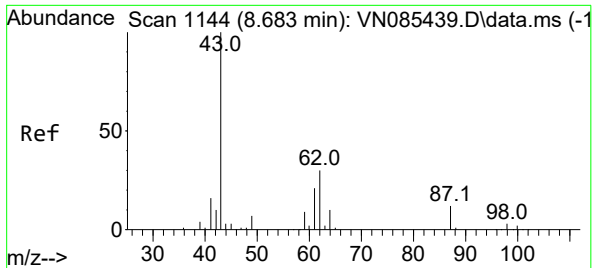
Tgt Ion: 62 Resp: 73577

Ion Ratio Lower Upper

62 100

98 9.4 0.0 17.0





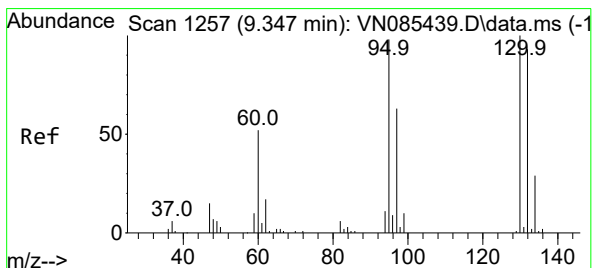
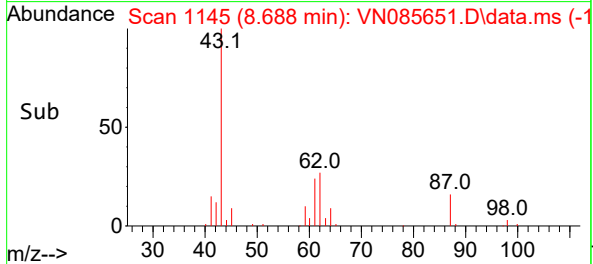
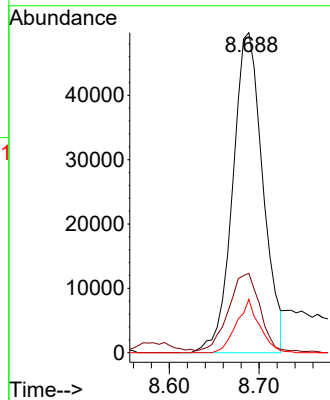
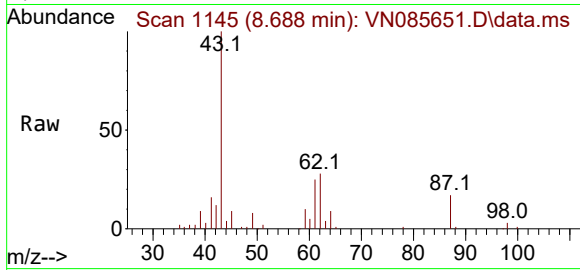
#43
Isopropyl Acetate
Concen: 20.051 ug/l m
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 43 Resp: 11598
Ion Ratio Lower Upper
43 100
61 26.6 20.7 31.1
87 12.7 9.8 14.8

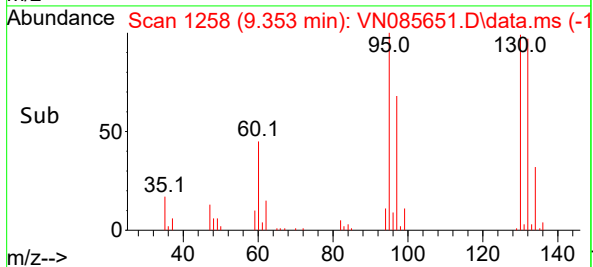
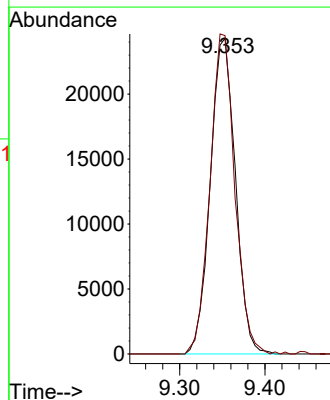
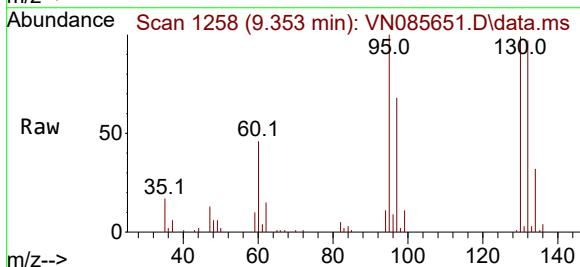
Manual Integrations
APPROVED

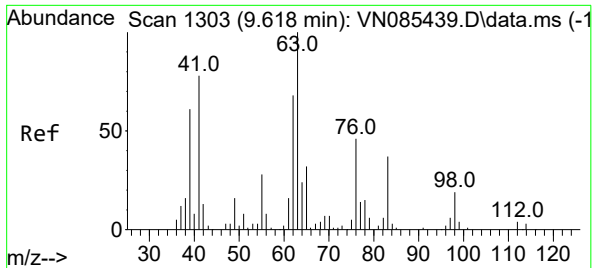
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#44
Trichloroethene
Concen: 19.842 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:130 Resp: 49633
Ion Ratio Lower Upper
130 100
95 100.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 19.672 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

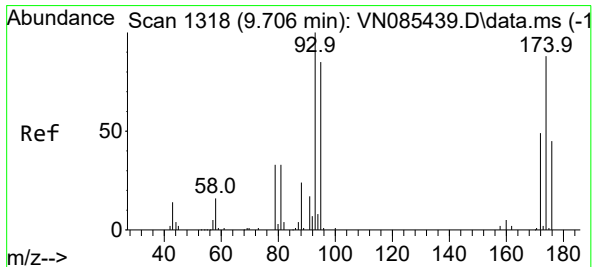
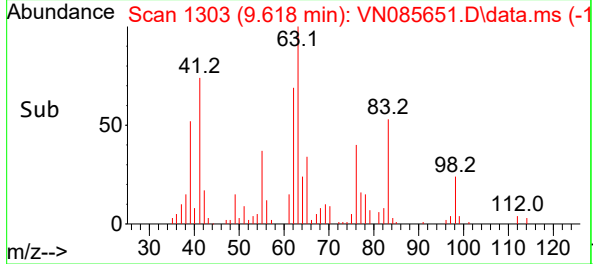
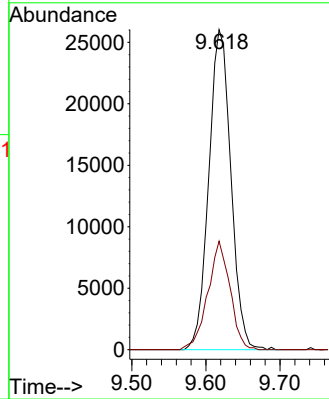
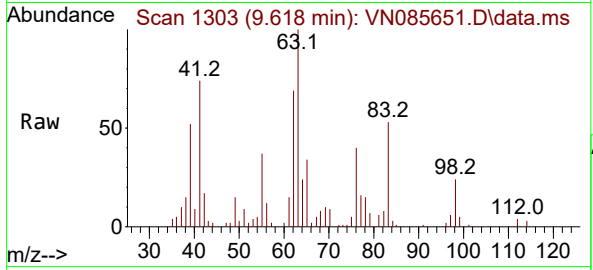
VN0204WBS02

Tgt Ion:	63	Resp:	5399
Ion Ratio	Lower	Upper	
63	100		
65	33.9	25.6	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#46

Dibromomethane

Concen: 19.747 ug/l

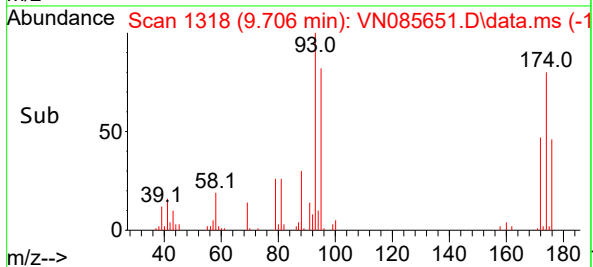
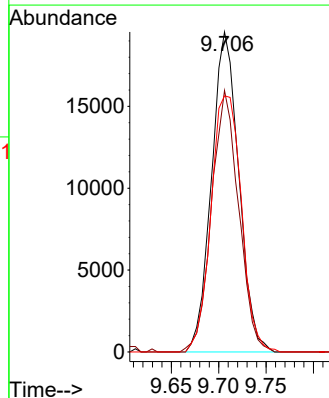
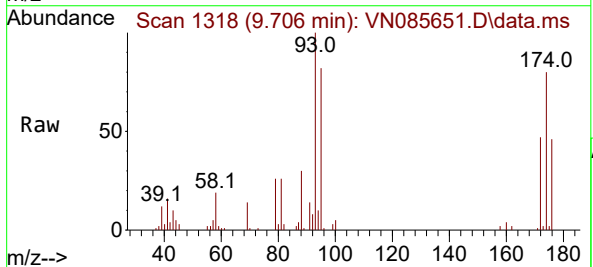
RT: 9.706 min Scan# 1318

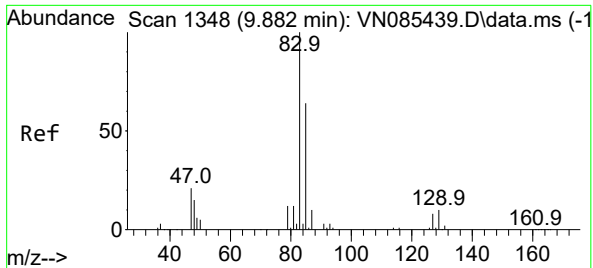
Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion:	93	Resp:	39110
Ion Ratio	Lower	Upper	
93	100		
95	81.4	64.7	97.1
174	89.0	69.0	103.4





#47

Bromodichloromethane

Concen: 19.263 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

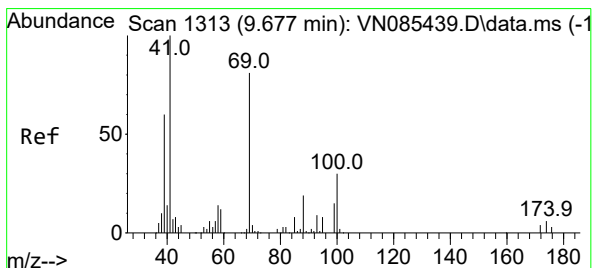
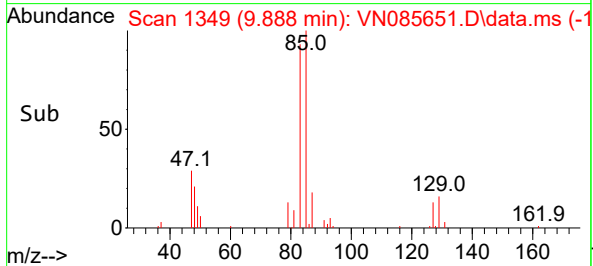
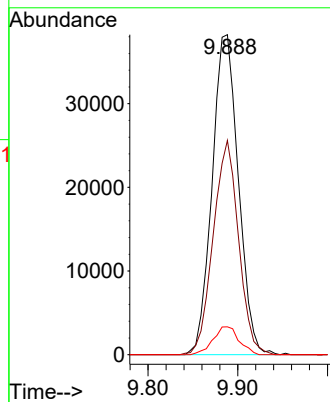
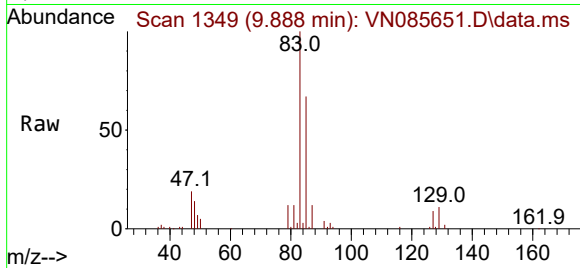
ClientSampleId :

VN0204WBS02

Tgt Ion:	83	Resp:	7772
Ion Ratio	Lower	Upper	
83	100		
85	67.0	51.2	76.8
127	8.7	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#48

Methyl methacrylate

Concen: 18.096 ug/l

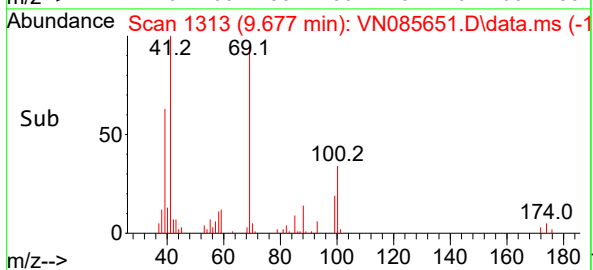
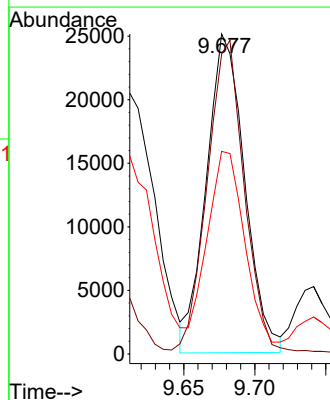
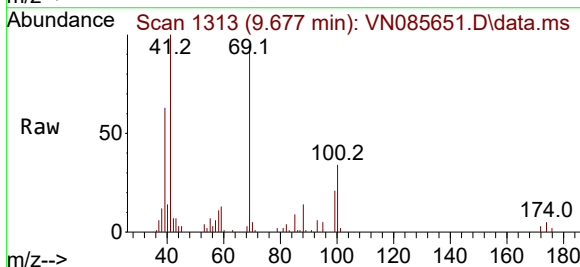
RT: 9.677 min Scan# 1313

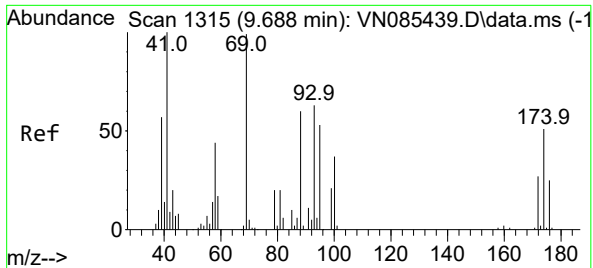
Delta R.T. -0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion:	41	Resp:	47105
Ion Ratio	Lower	Upper	
41	100		
69	96.3	64.7	97.1
39	63.8	49.0	73.6





#49

1,4-Dioxane

Concen: 439.639 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 88 Resp: 1927

Ion Ratio Lower Upper

88 100

43 27.7 26.6 39.8

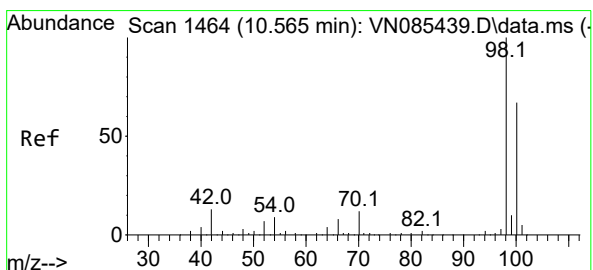
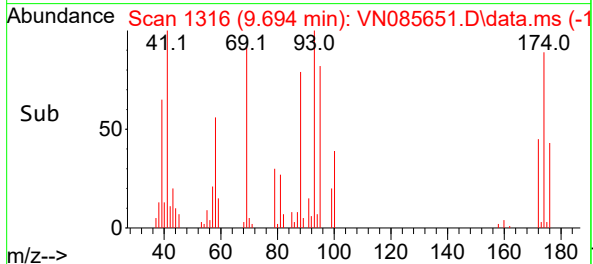
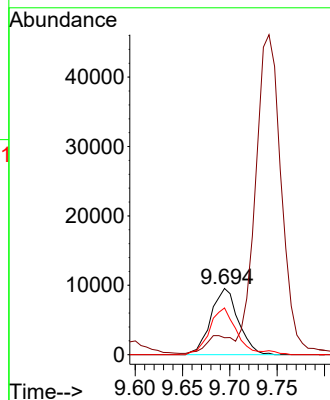
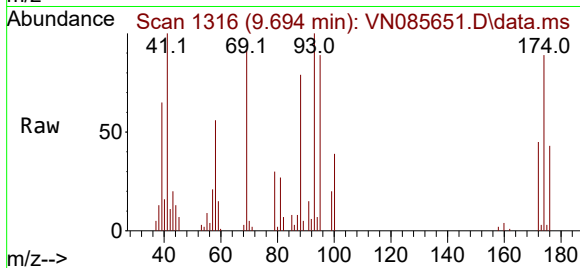
58 70.7 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#50

Toluene-d8

Concen: 49.771 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085651.D

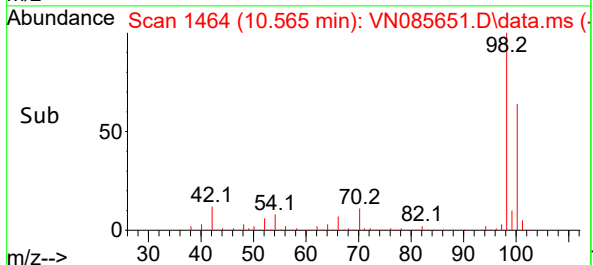
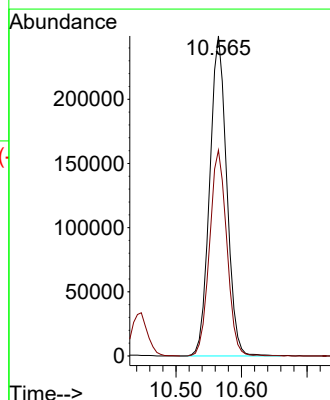
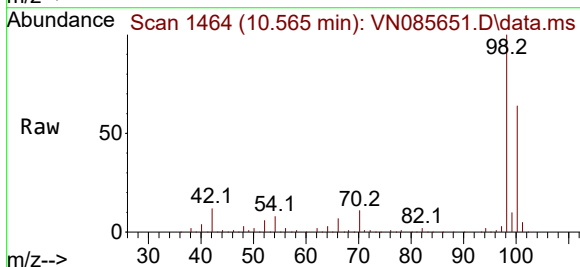
Acq: 04 Feb 2025 14:51

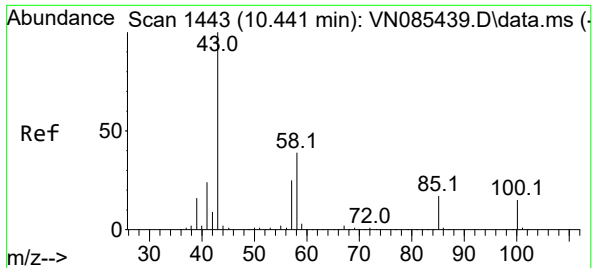
Tgt Ion: 98 Resp: 450633

Ion Ratio Lower Upper

98 100

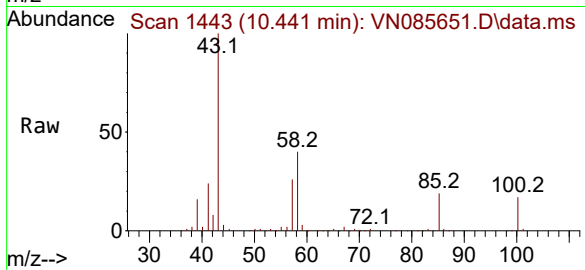
100 64.9 52.2 78.4





#51
4-Methyl-2-Pentanone
Concen: 97.965 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

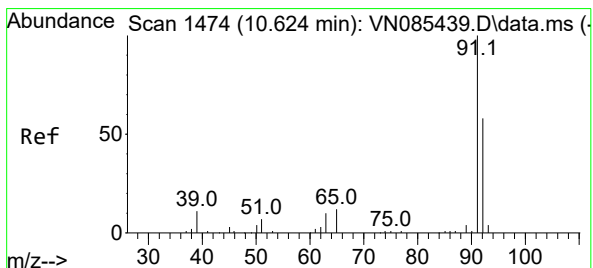
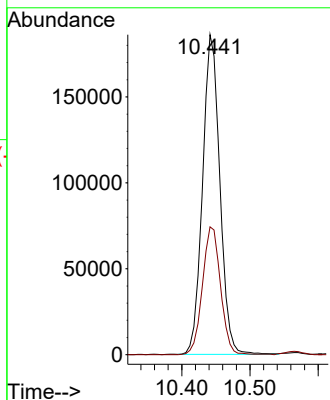
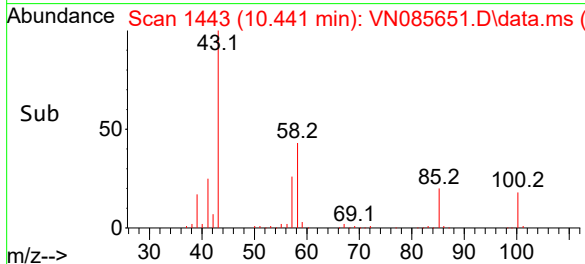
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



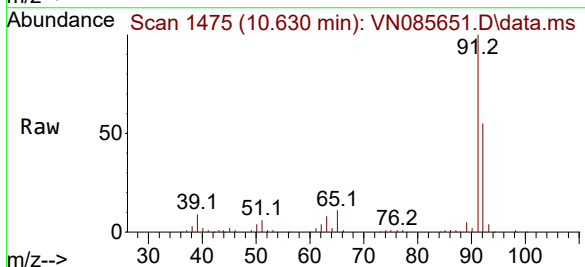
Tgt Ion: 43 Resp: 328830
Ion Ratio Lower Upper
43 100
58 41.7 30.5 45.7

Manual Integrations
APPROVED

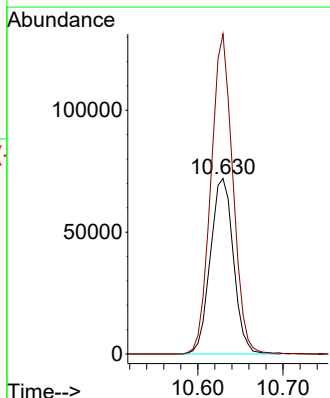
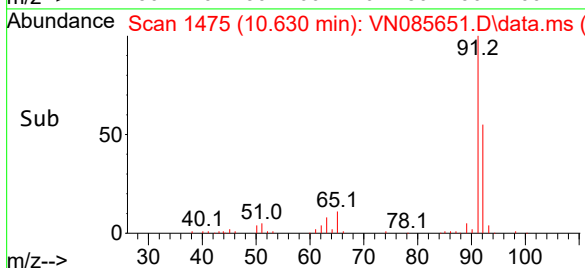
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

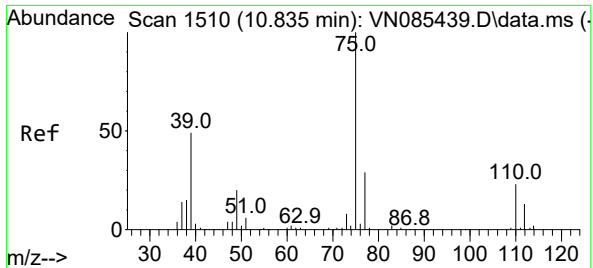


#52
Toluene
Concen: 21.741 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51



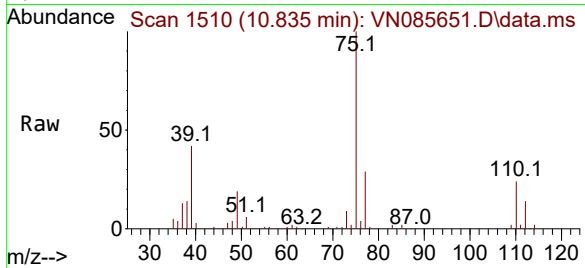
Tgt Ion: 92 Resp: 135369
Ion Ratio Lower Upper
92 100
91 173.5 139.2 208.8





#53
t-1,3-Dichloropropene
Concen: 19.583 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

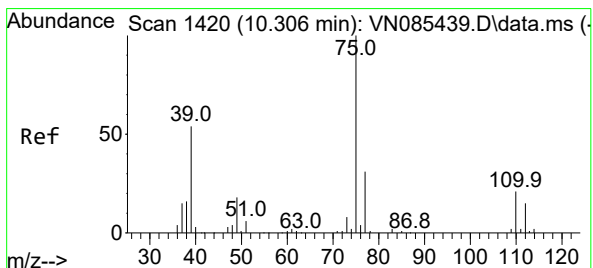
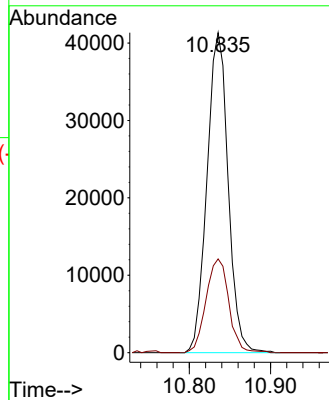
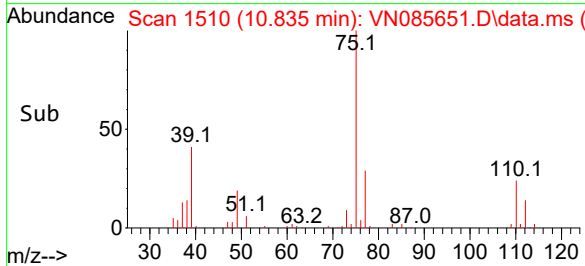
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



Tgt Ion: 75 Resp: 74675
Ion Ratio Lower Upper
75 100
77 29.3 23.5 35.3

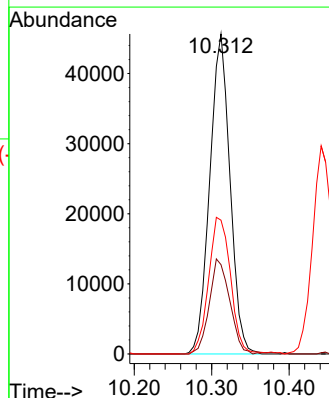
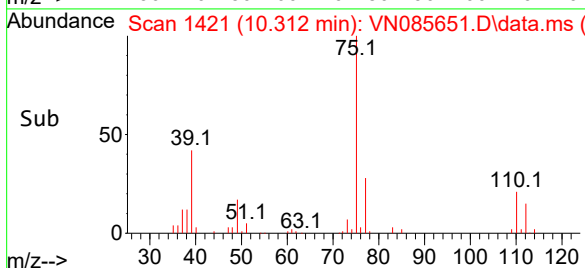
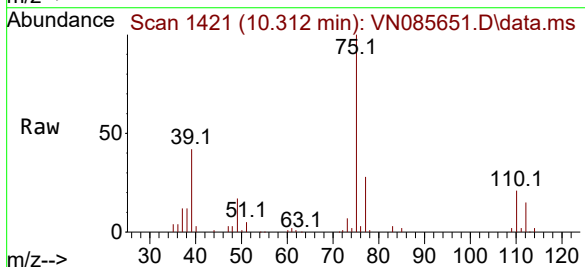
Manual Integrations
APPROVED

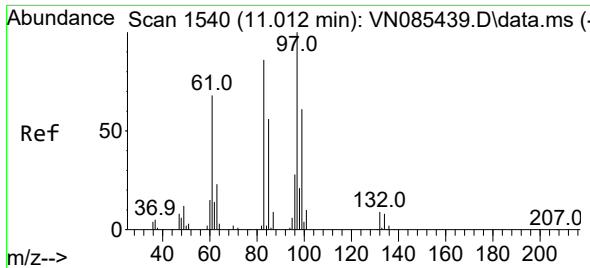
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#54
cis-1,3-Dichloropropene
Concen: 20.385 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

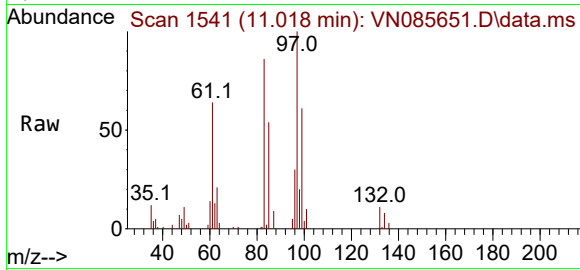
Tgt Ion: 75 Resp: 83030
Ion Ratio Lower Upper
75 100
77 27.9 25.0 37.4
39 41.8 43.1 64.7#





#55
1,1,2-Trichloroethane
Concen: 20.914 ug/l
RT: 11.018 min Scan# 1540
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

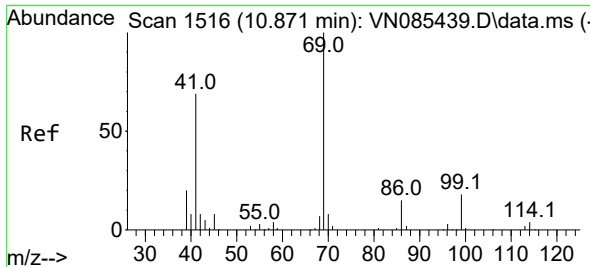
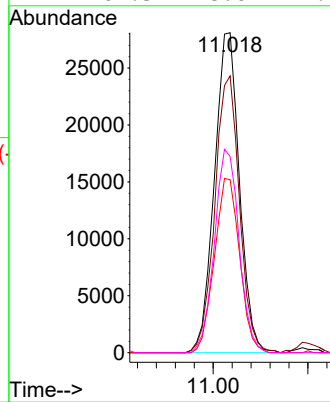
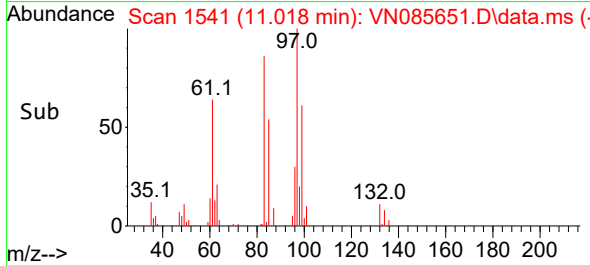
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



Tgt Ion: 97 Resp: 51534
Ion Ratio Lower Upper
97 100
83 86.5 69.0 103.6
85 54.0 44.6 66.8
99 61.3 48.6 72.8

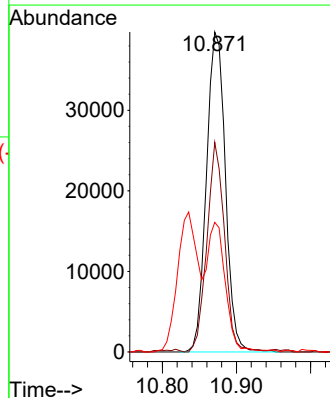
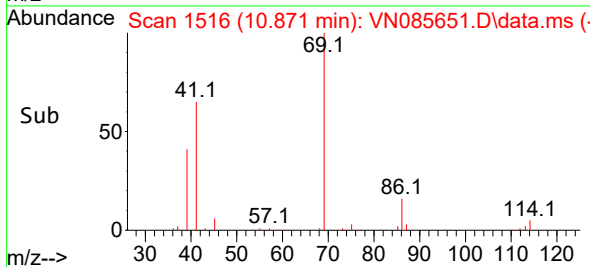
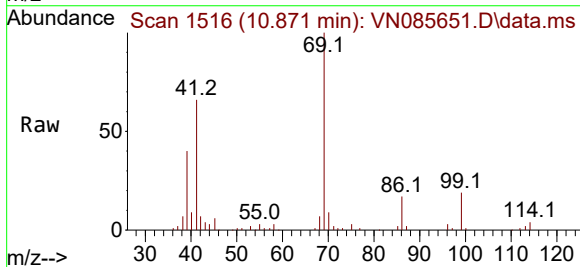
Manual Integrations
APPROVED

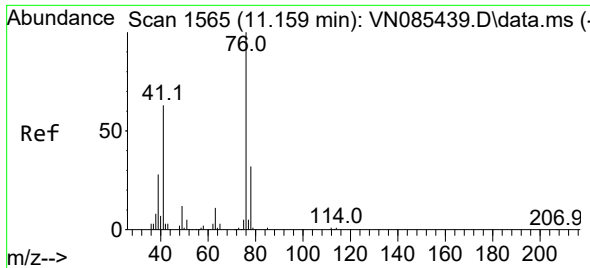
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#56
Ethyl methacrylate
Concen: 18.280 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 69 Resp: 70589
Ion Ratio Lower Upper
69 100
41 60.9 54.6 82.0
39 39.6 32.4 48.6





#57

1,3-Dichloropropane

Concen: 20.170 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion: 76 Resp: 86420

Ion Ratio Lower Upper

76 100

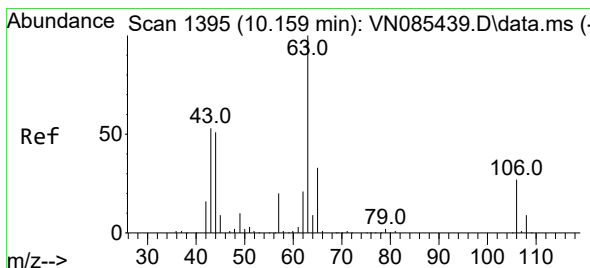
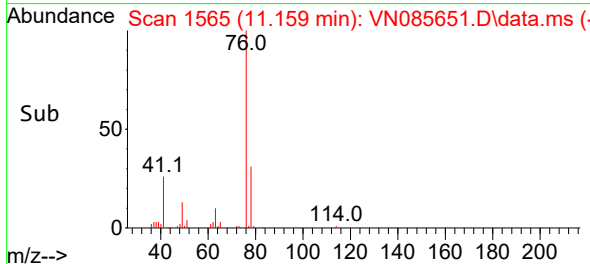
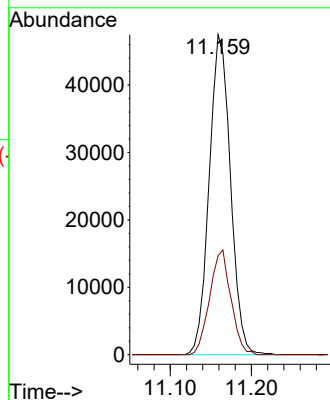
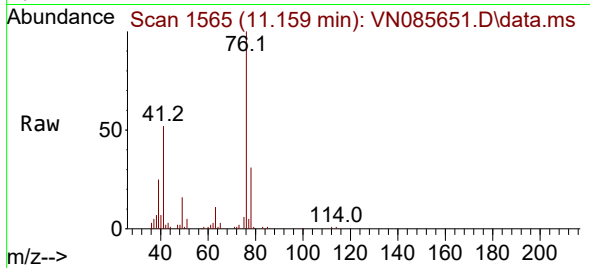
78 32.6 25.6 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#58

2-Chloroethyl Vinyl ether

Concen: 67.812 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085651.D

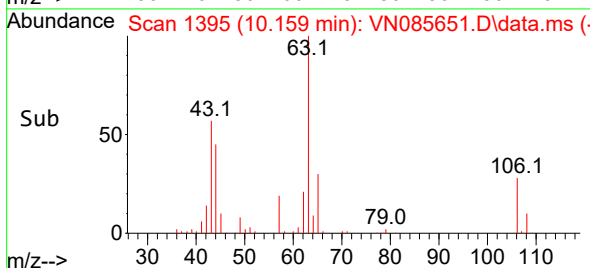
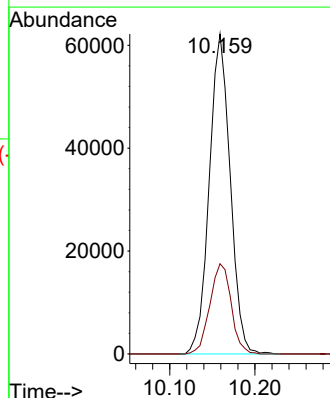
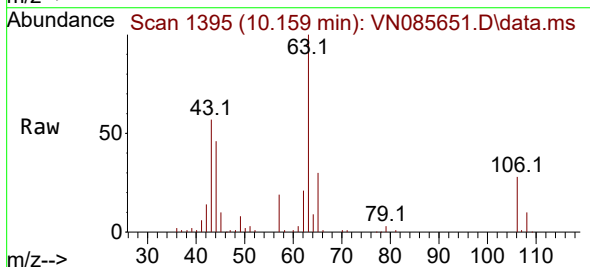
Acq: 04 Feb 2025 14:51

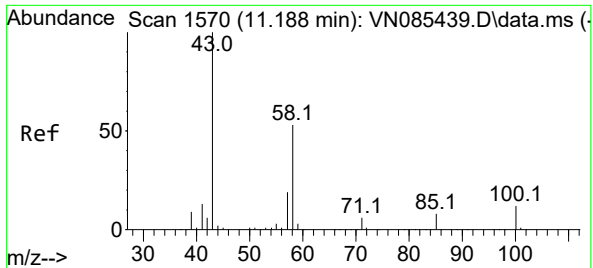
Tgt Ion: 63 Resp: 106039

Ion Ratio Lower Upper

63 100

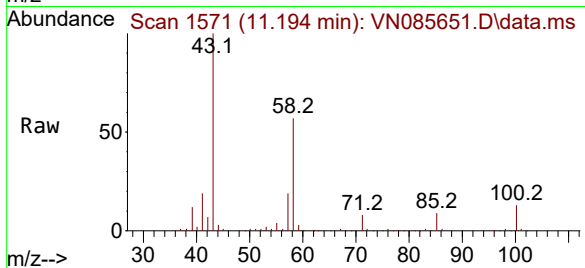
106 28.7 21.6 32.4





#59
2-Hexanone
Concen: 101.031 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

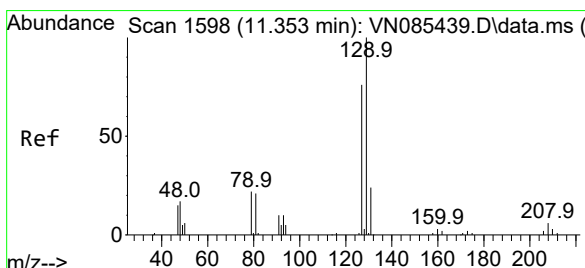
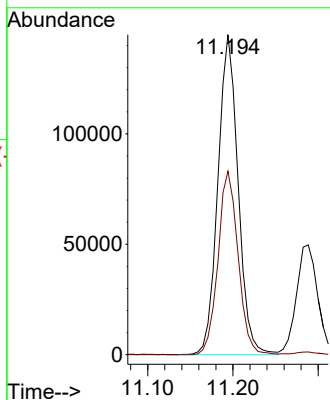
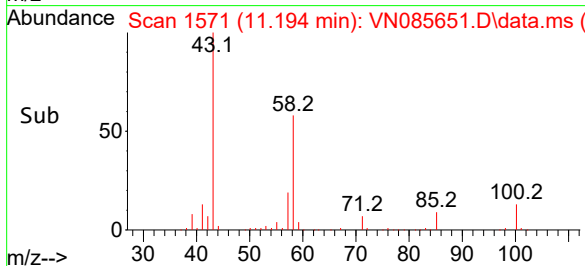
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



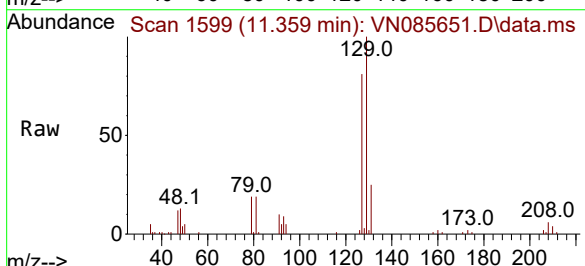
Tgt Ion: 43 Resp: 23861
Ion Ratio Lower Upper
43 100
58 57.1 26.2 78.6

Manual Integrations
APPROVED

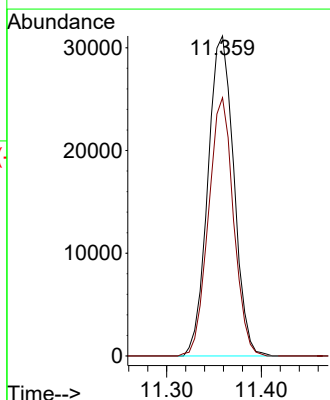
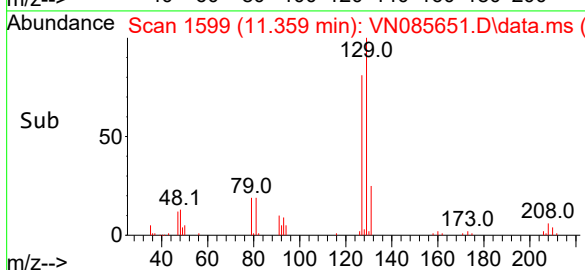
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

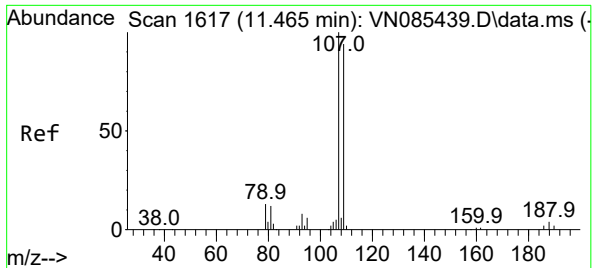


#60
Dibromochloromethane
Concen: 19.918 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51



Tgt Ion:129 Resp: 59256
Ion Ratio Lower Upper
129 100
127 77.8 38.6 115.8





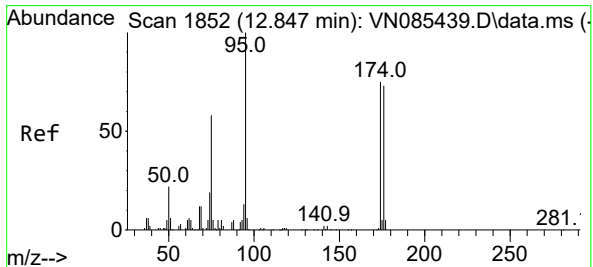
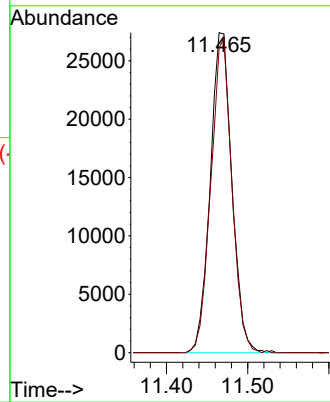
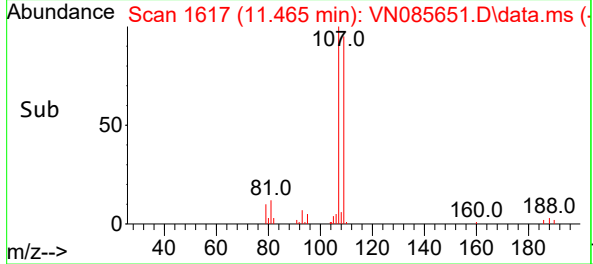
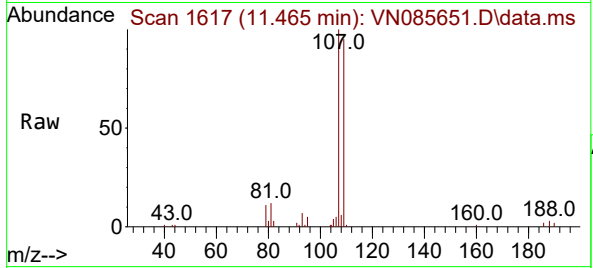
#61
1,2-Dibromoethane
Concen: 20.701 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:107 Resp: 50770
Ion Ratio Lower Upper
107 100
109 95.4 75.9 113.9

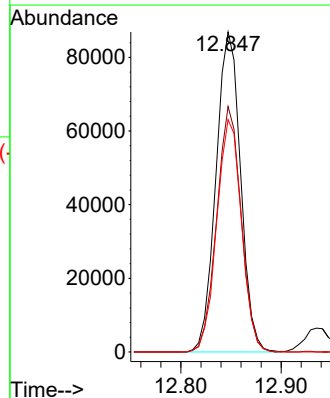
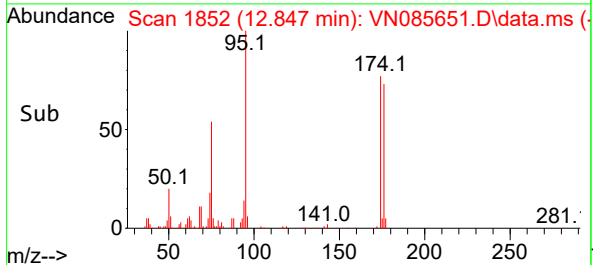
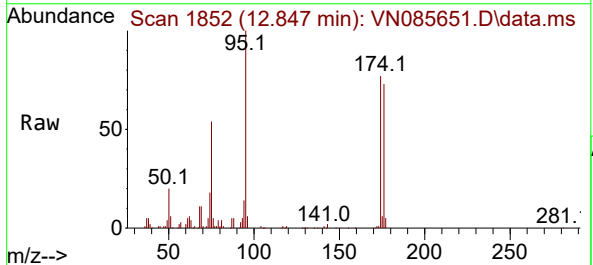
Manual Integrations
APPROVED

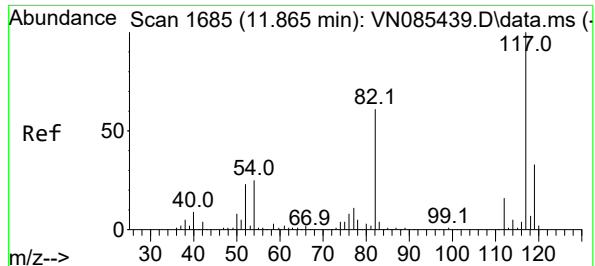
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#62
4-Bromofluorobenzene
Concen: 47.844 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 95 Resp: 148181
Ion Ratio Lower Upper
95 100
174 76.0 0.0 145.0
176 72.9 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

Tgt Ion:117 Resp: 317764

Ion Ratio Lower Upper

117 100

82 55.3 48.6 72.8

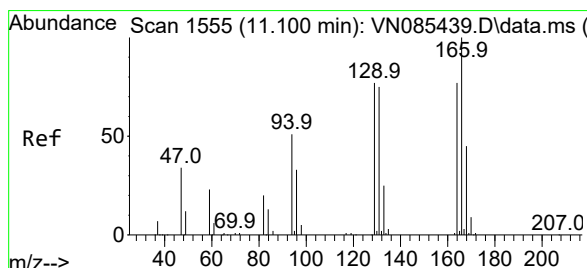
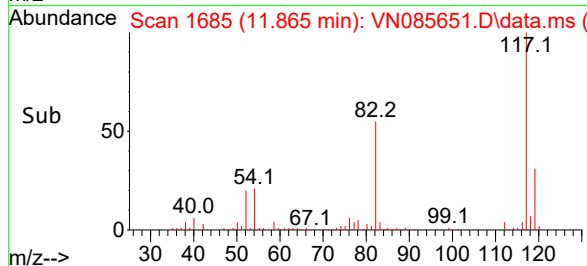
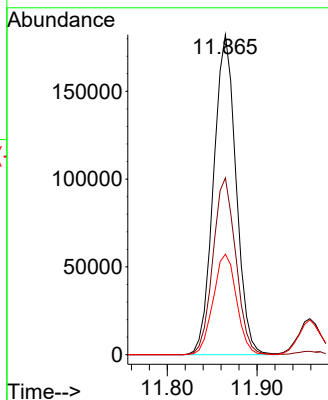
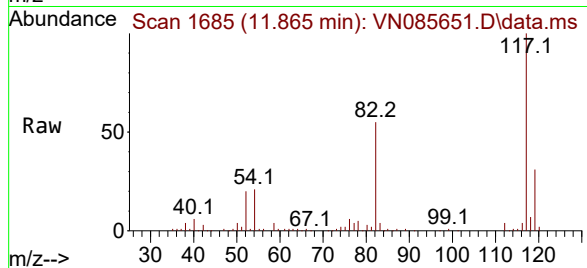
119 31.4 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#64

Tetrachloroethene

Concen: 21.187 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion:164 Resp: 45898

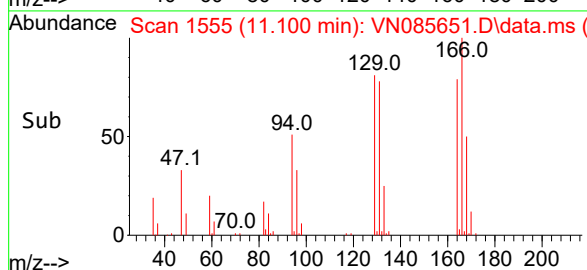
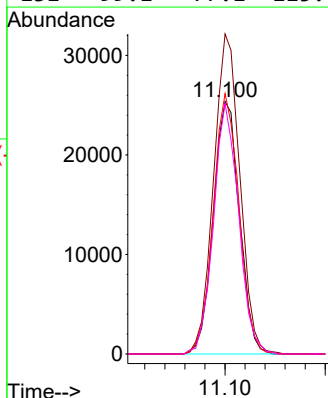
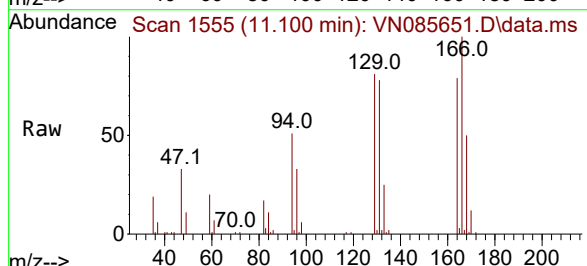
Ion Ratio Lower Upper

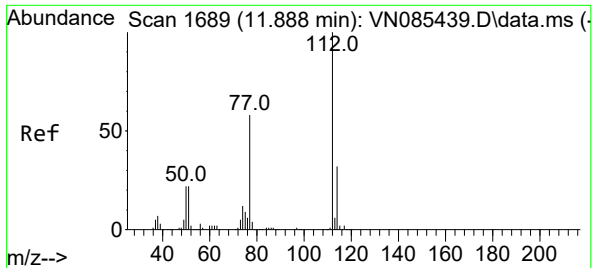
164 100

166 126.8 103.4 155.2

129 103.2 79.2 118.8

131 99.1 77.1 115.7





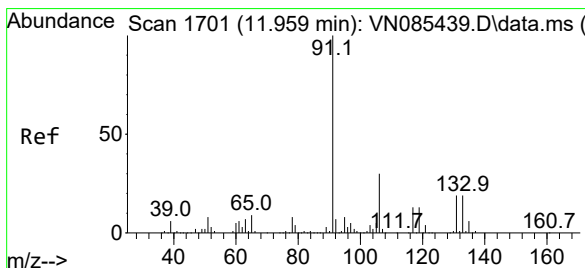
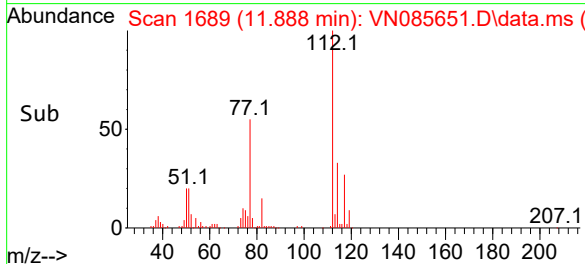
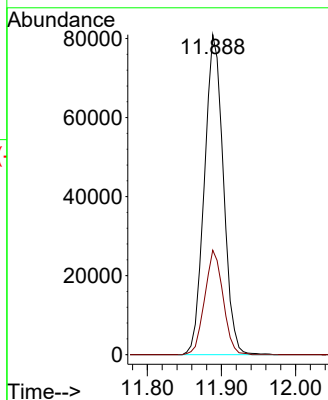
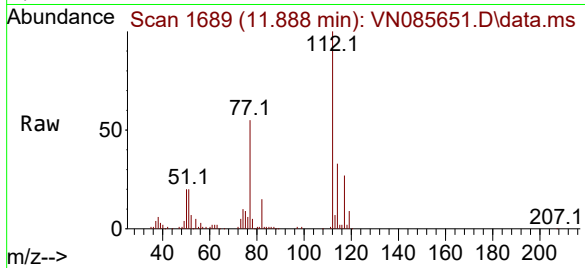
#65
Chlorobenzene
Concen: 20.663 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:112 Resp: 143830
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9

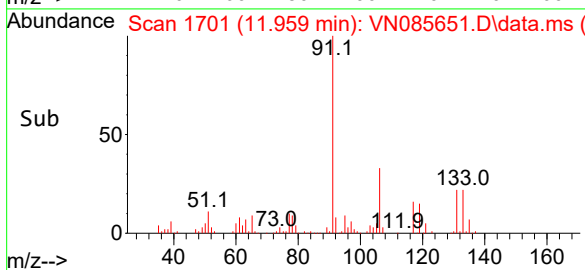
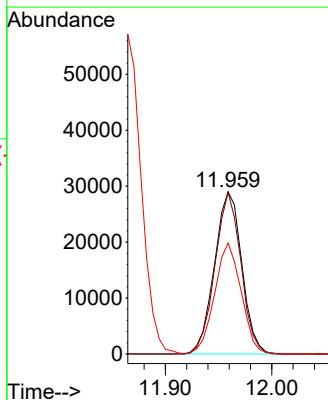
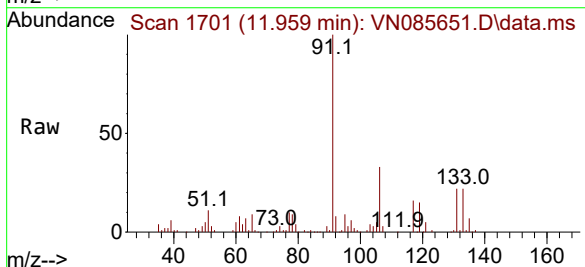
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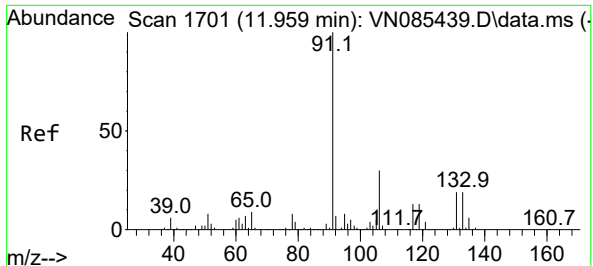
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.242 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:131 Resp: 51716
Ion Ratio Lower Upper
131 100
133 94.2 47.4 142.3
119 66.3 33.1 99.5





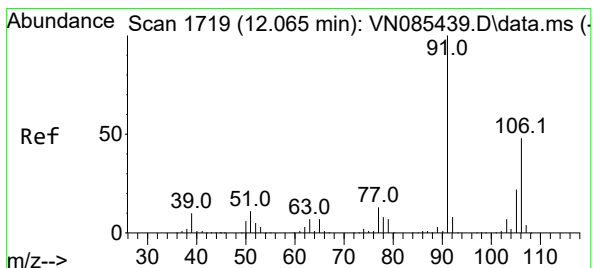
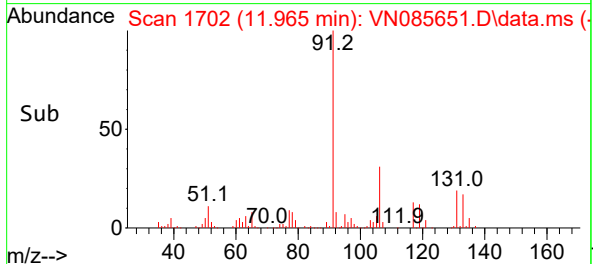
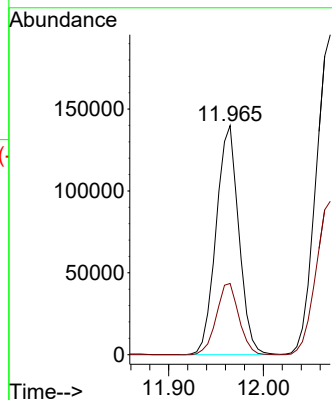
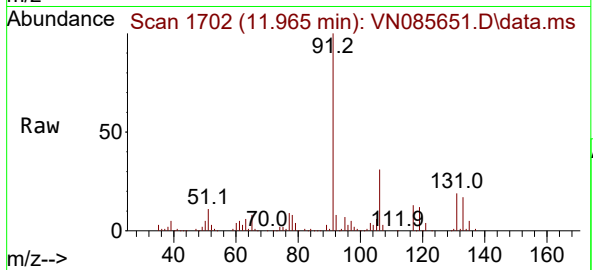
#67
Ethyl Benzene
Concen: 20.561 ug/l
RT: 11.965 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 91 Resp: 233110
Ion Ratio Lower Upper
91 100
106 31.1 23.8 35.8

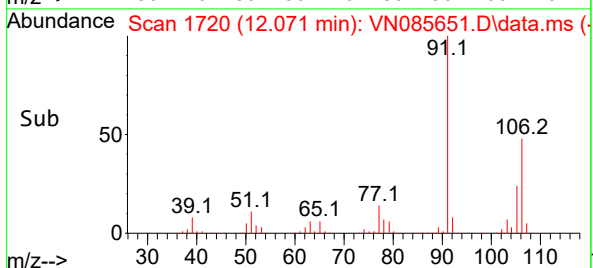
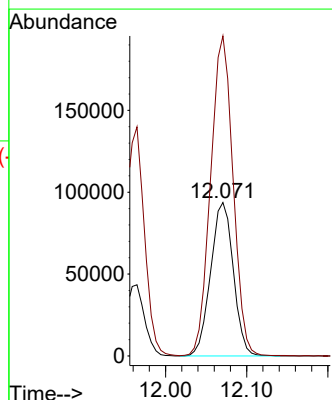
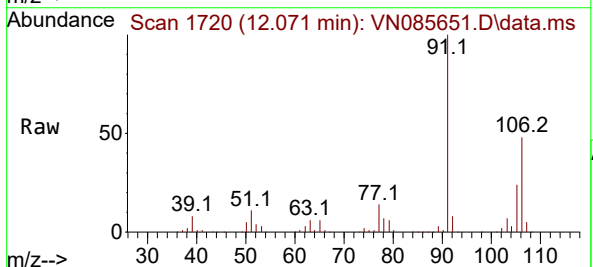
Manual Integrations
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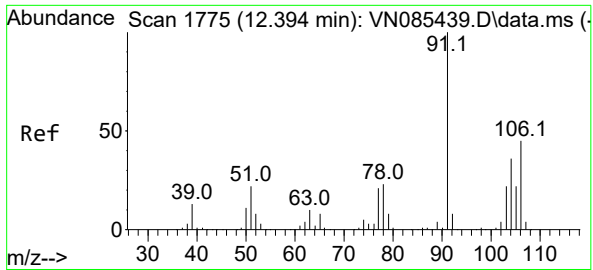
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#68
m/p-Xylenes
Concen: 43.412 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:106 Resp: 181911
Ion Ratio Lower Upper
106 100
91 206.7 167.7 251.5





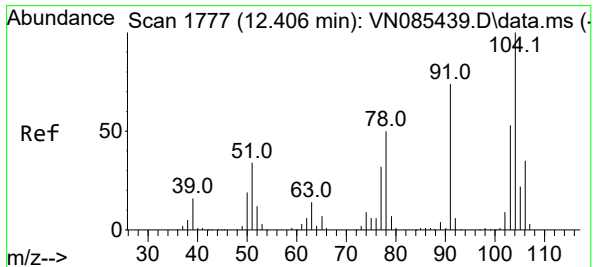
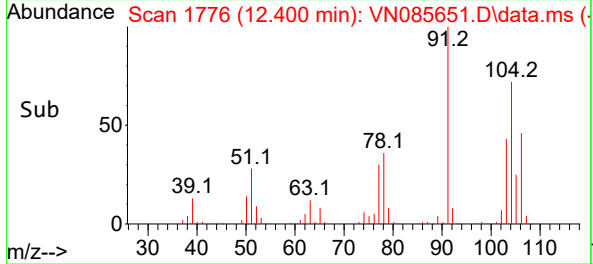
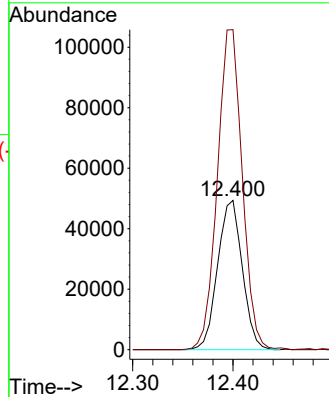
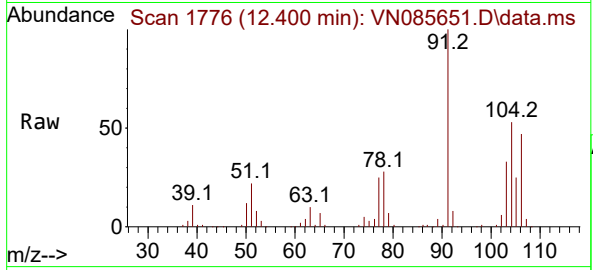
#69
o-Xylene
Concen: 21.067 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:106 Resp: 8436
Ion Ratio Lower Upper
106 100
91 216.2 110.4 331.2

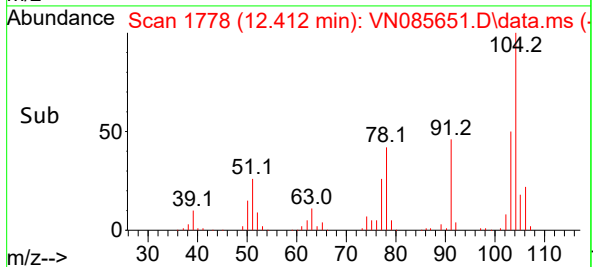
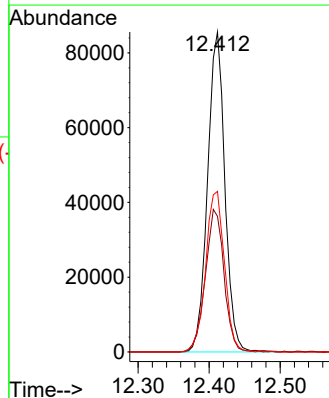
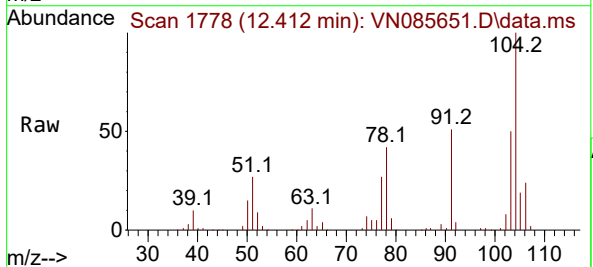
Manual Integrations
APPROVED

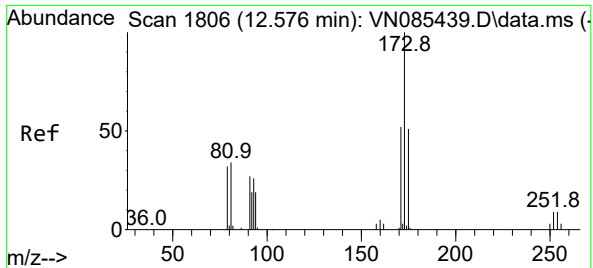
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#70
Styrene
Concen: 21.885 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

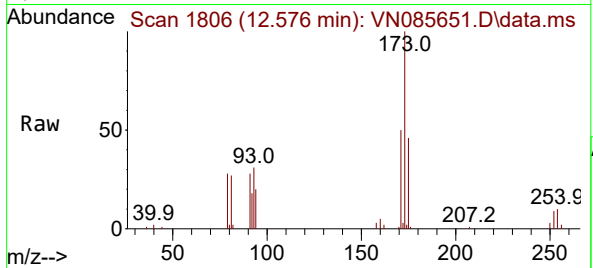
Tgt Ion:104 Resp: 145039
Ion Ratio Lower Upper
104 100
78 48.2 42.5 63.7
103 54.7 43.8 65.8





#71
Bromoform
Concen: 21.179 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

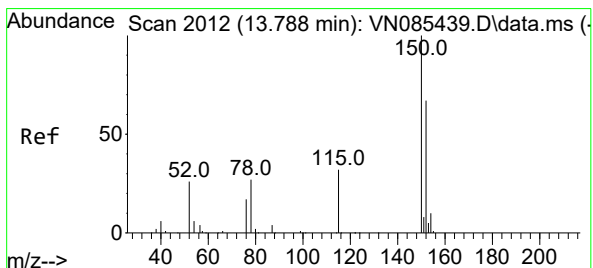
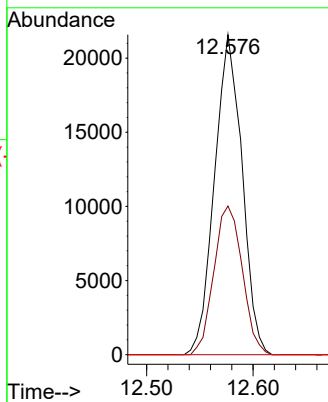
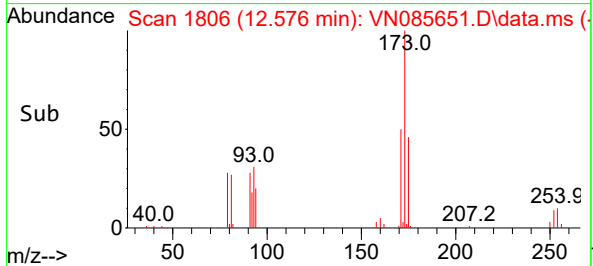
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



Tgt Ion:173 Resp: 3871
Ion Ratio Lower Upper
173 100
175 48.0 24.4 73.2
254 0.0 0.0 0.0

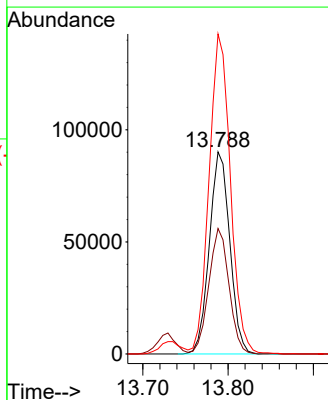
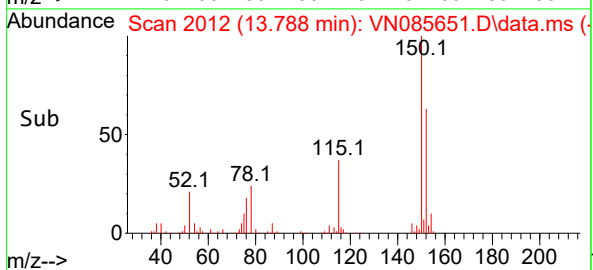
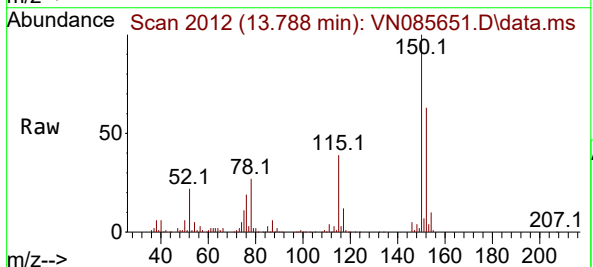
Manual Integrations
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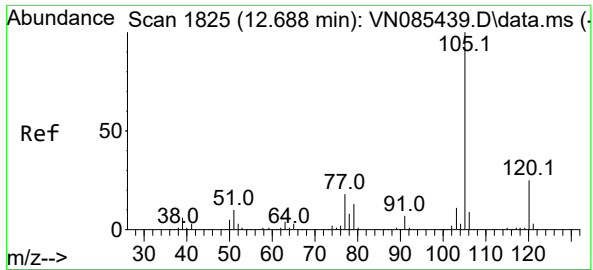
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:152 Resp: 150317
Ion Ratio Lower Upper
152 100
115 61.4 31.1 93.3
150 164.9 0.0 343.6





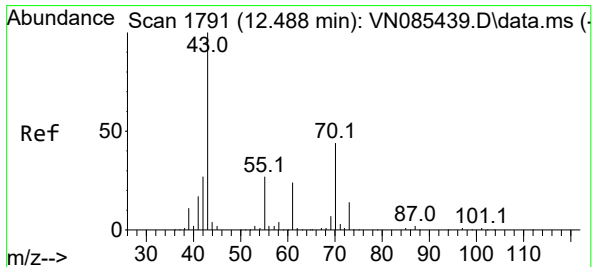
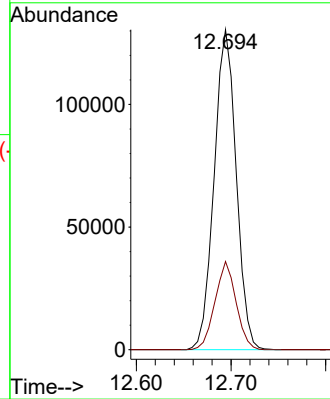
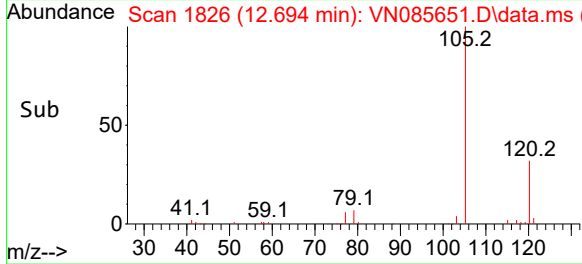
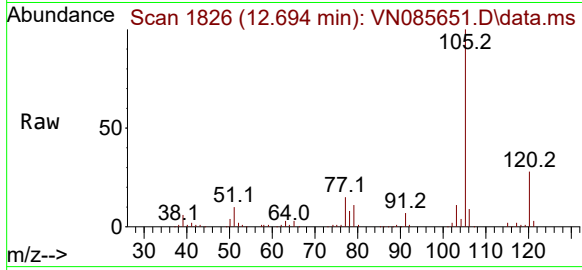
#73
Isopropylbenzene
Concen: 20.793 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:105 Resp: 21094
Ion Ratio Lower Upper
105 100
120 26.3 12.8 38.3

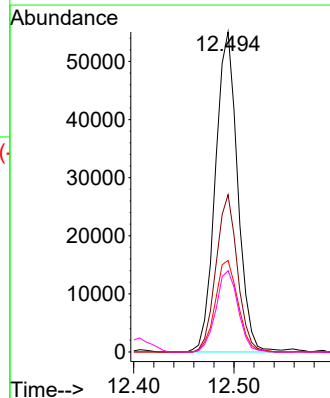
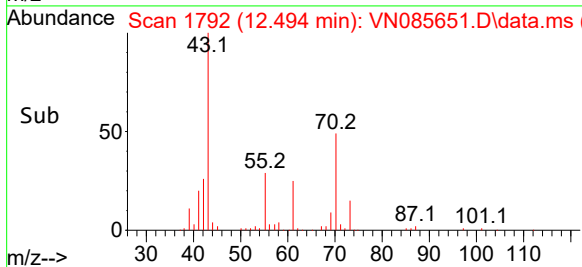
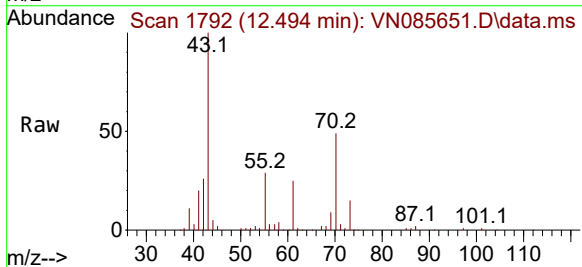
Manual Integrations
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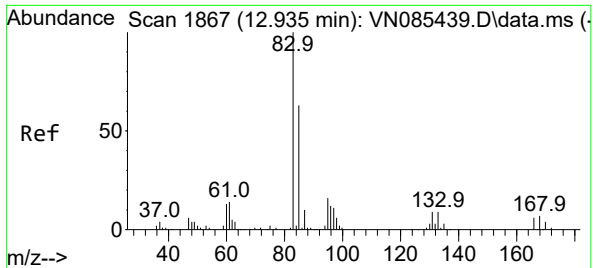
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#74
N-ethyl acetate
Concen: 18.598 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 43 Resp: 84808
Ion Ratio Lower Upper
43 100
70 47.3 34.0 51.0
55 29.2 21.4 32.2
61 25.3 19.0 28.4





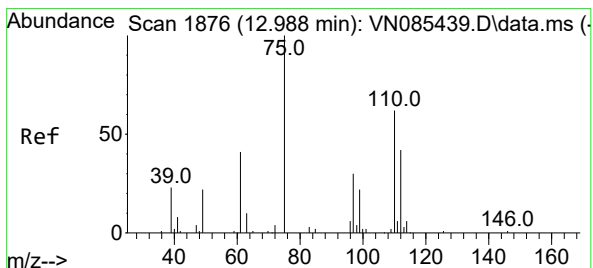
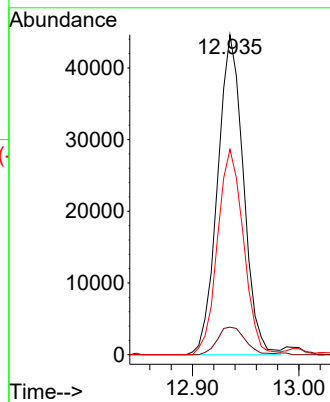
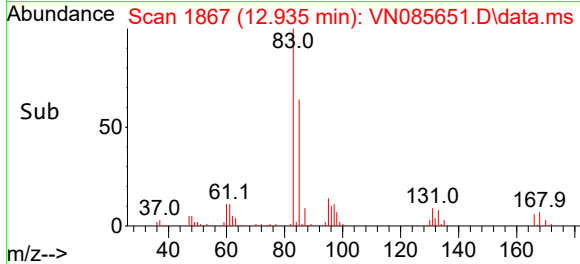
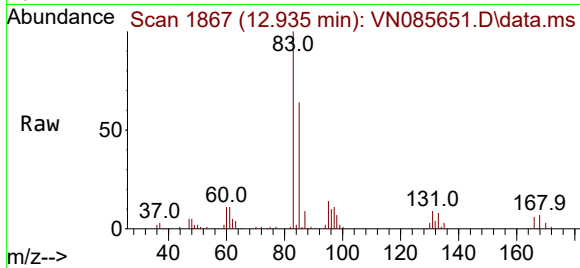
#75
1,1,2,2-Tetrachloroethane
Concen: 20.962 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 83 Resp: 75120
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.6 32.2 96.6

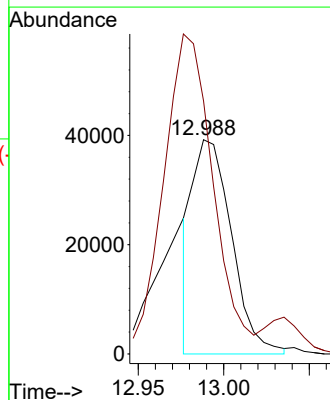
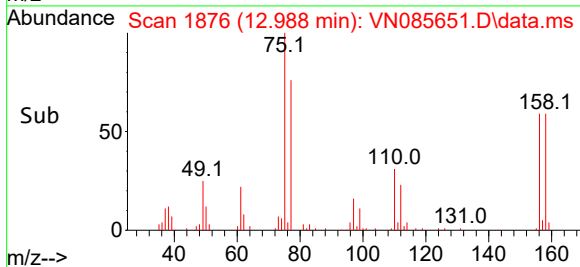
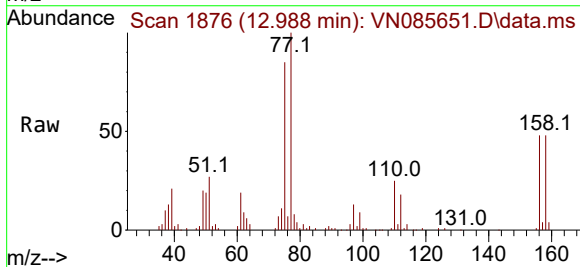
Manual Integrations
APPROVED

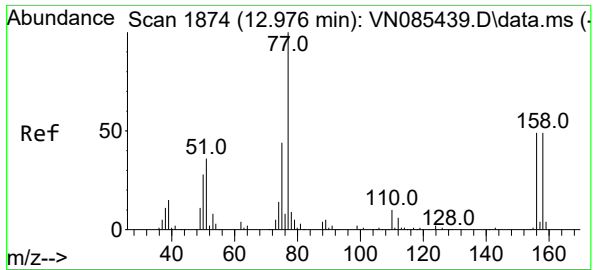
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#76
1,2,3-Trichloropropane
Concen: 20.410 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 75 Resp: 62358
Ion Ratio Lower Upper
75 100
77 189.0 109.7 329.2





#77

Bromobenzene

Concen: 20.501 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

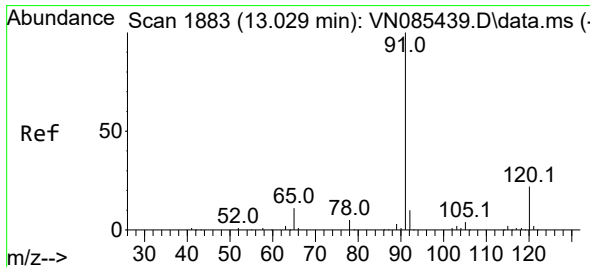
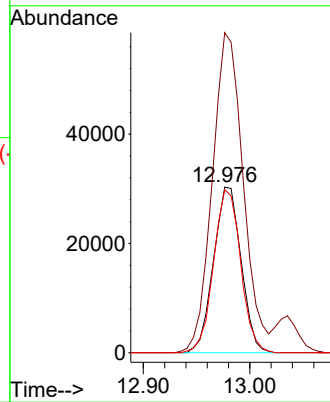
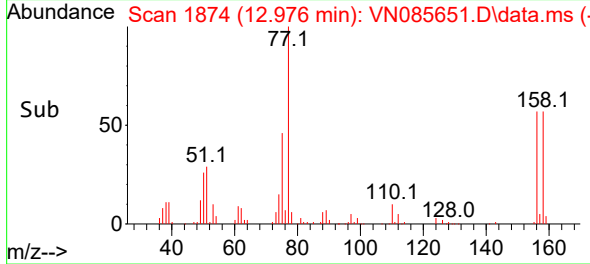
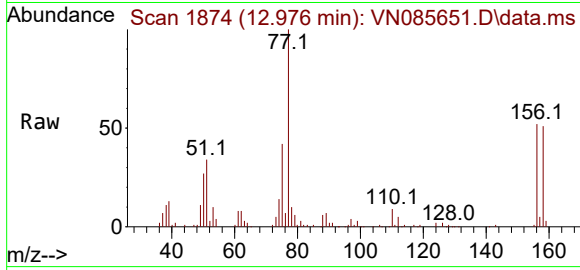
ClientSampleId :

VN0204WBS02

Tgt Ion:156 Resp: 54340
Ion Ratio Lower Upper
156 100
77 216.9 114.1 342.4
158 96.9 48.9 146.8

Manual Integrations
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Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#78

n-propylbenzene

Concen: 20.891 ug/l

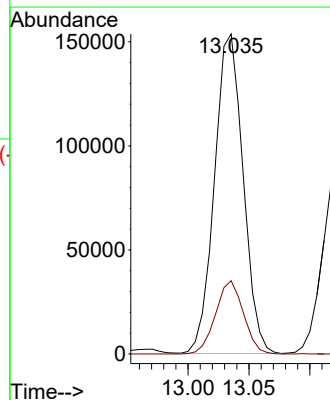
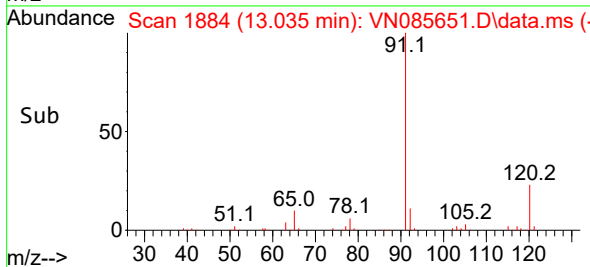
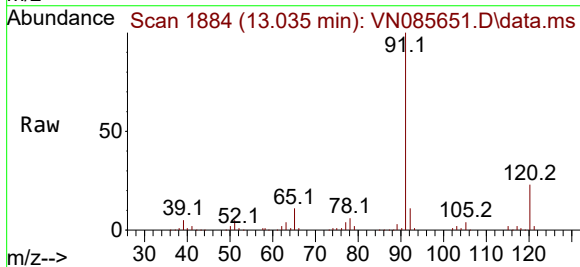
RT: 13.035 min Scan# 1884

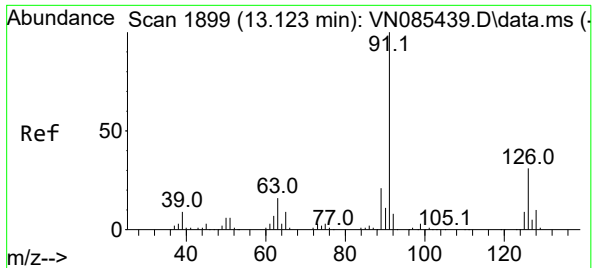
Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion: 91 Resp: 250899
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.6





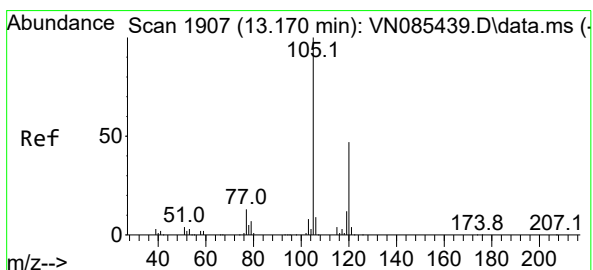
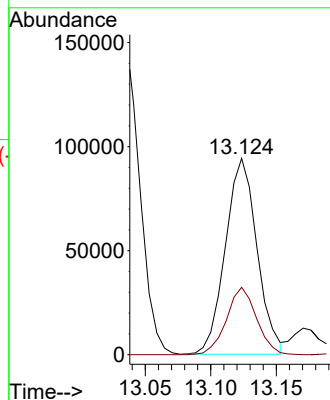
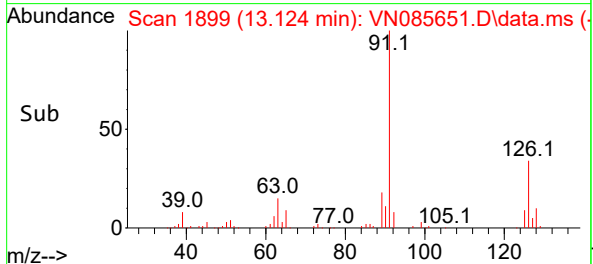
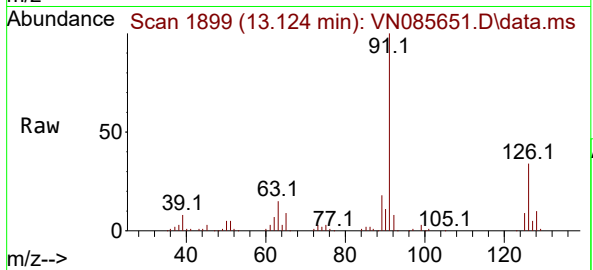
#79
2-Chlorotoluene
Concen: 20.353 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 91 Resp: 158204
Ion Ratio Lower Upper
91 100
126 32.7 15.7 47.1

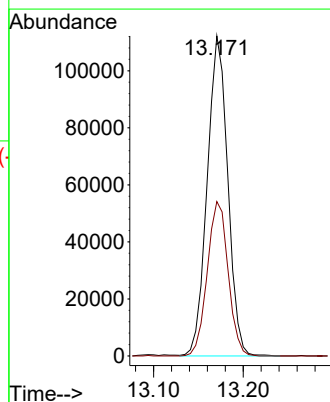
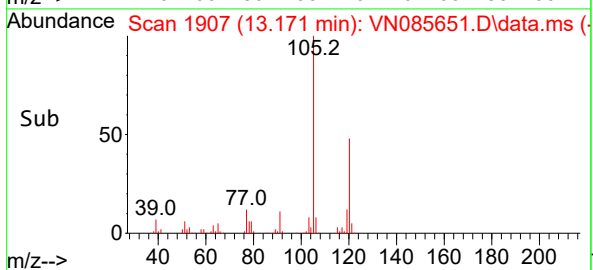
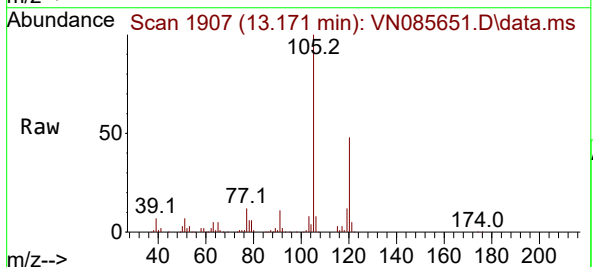
Manual Integrations
APPROVED

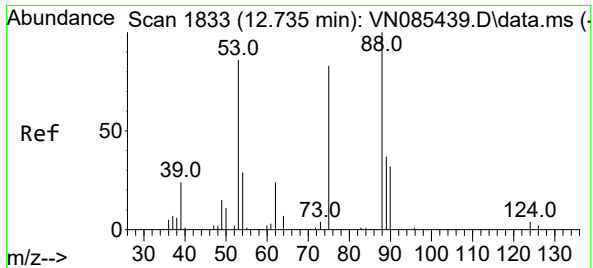
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#80
1,3,5-Trimethylbenzene
Concen: 21.323 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

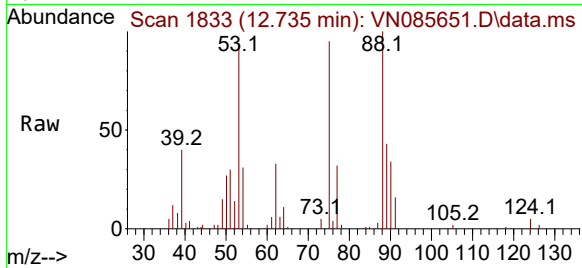
Tgt Ion:105 Resp: 178682
Ion Ratio Lower Upper
105 100
120 48.8 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 21.810 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

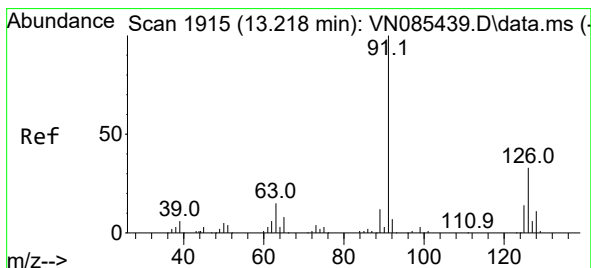
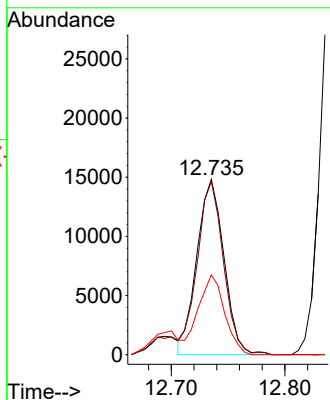
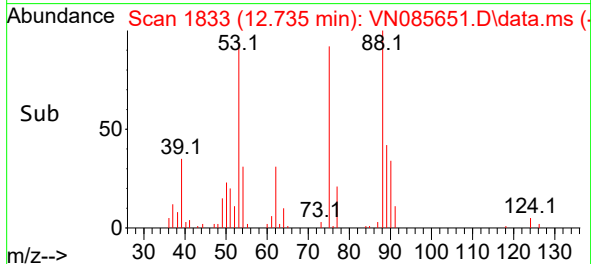
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



Tgt Ion: 75 Resp: 24629
Ion Ratio Lower Upper
75 100
53 105.9 95.6 143.4
89 43.5 37.0 55.6

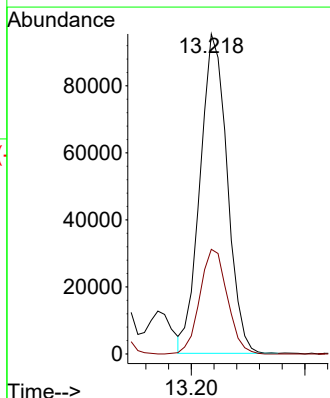
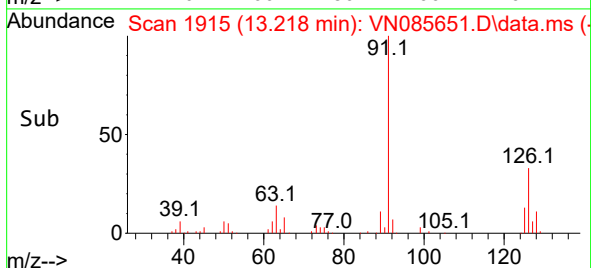
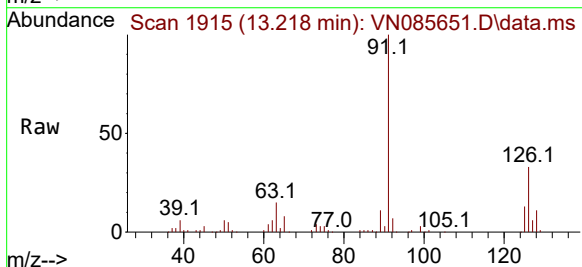
Manual Integrations
APPROVED

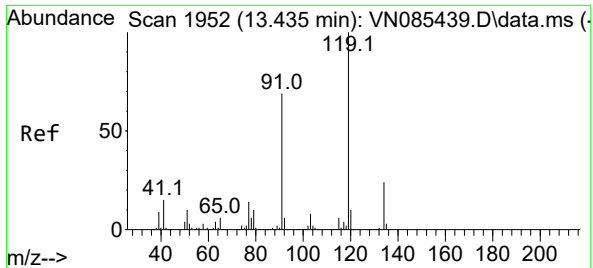
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#82
4-Chlorotoluene
Concen: 20.405 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 91 Resp: 157925
Ion Ratio Lower Upper
91 100
126 33.2 15.9 47.7





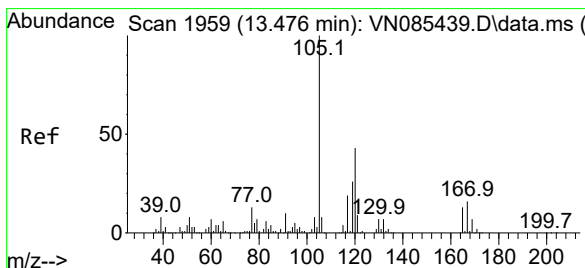
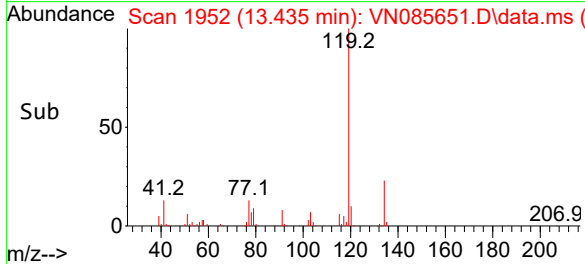
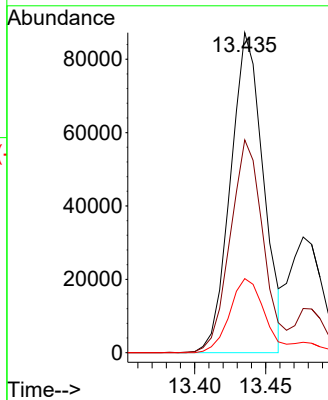
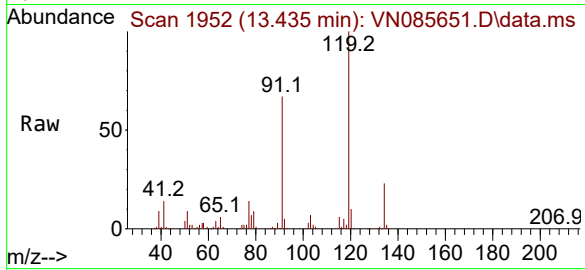
#83
tert-Butylbenzene
Concen: 19.923 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:119 Resp: 14020
Ion Ratio Lower Upper
119 100
91 67.3 35.1 105.3
134 24.3 12.0 36.1

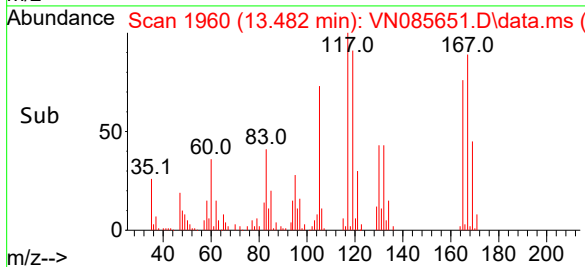
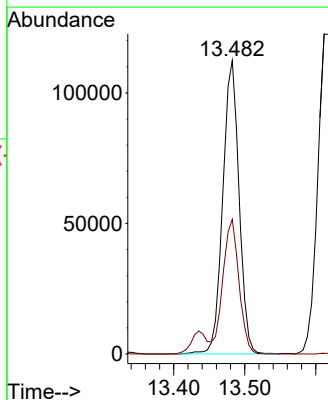
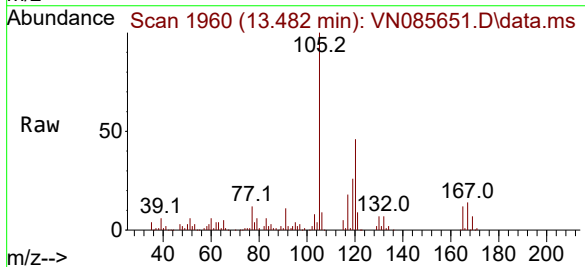
Manual Integrations
APPROVED

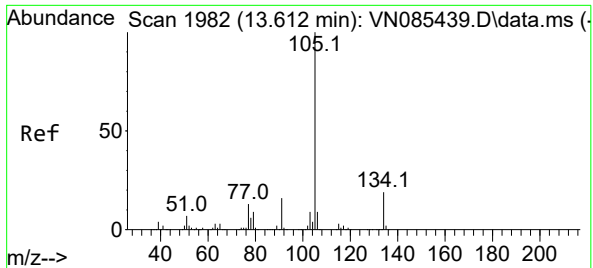
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#84
1,2,4-Trimethylbenzene
Concen: 21.370 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:105 Resp: 178481
Ion Ratio Lower Upper
105 100
120 45.3 21.6 65.0





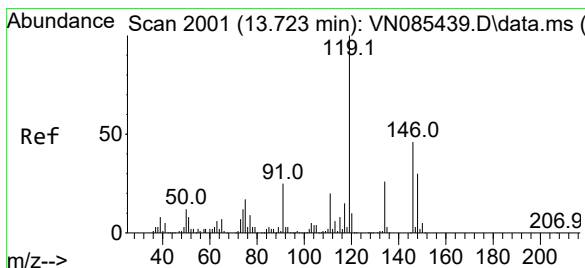
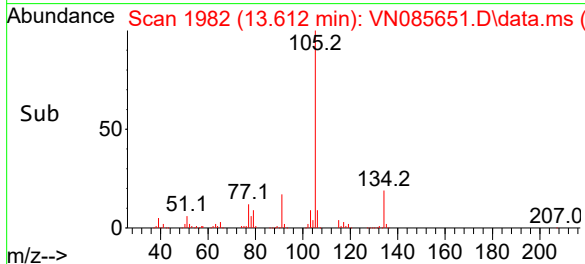
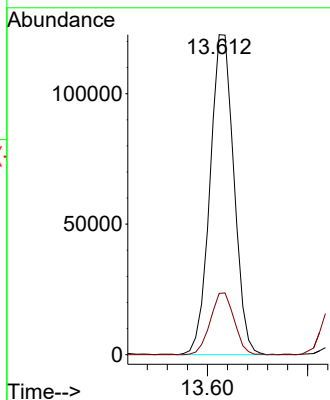
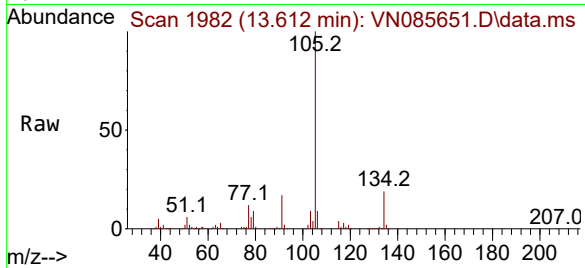
#85
sec-Butylbenzene
Concen: 20.804 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:105 Resp: 202909
Ion Ratio Lower Upper
105 100
134 19.3 9.7 28.9

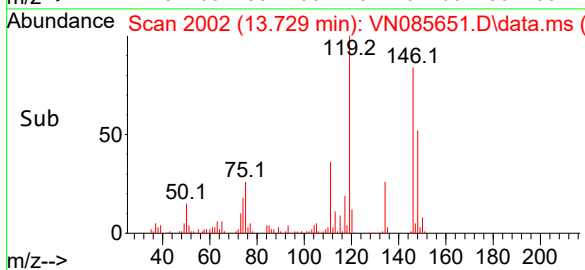
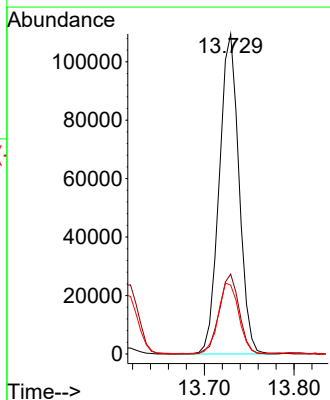
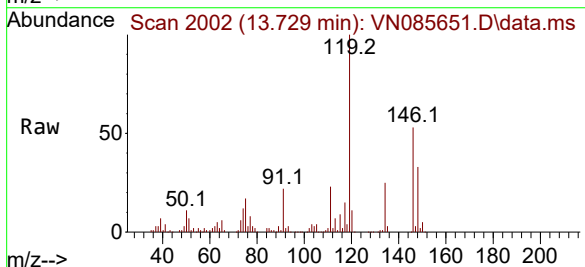
Manual Integrations
APPROVED

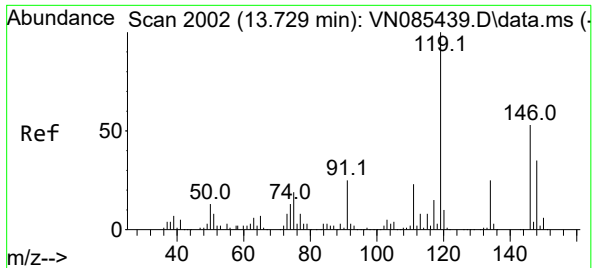
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#86
p-Isopropyltoluene
Concen: 20.523 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

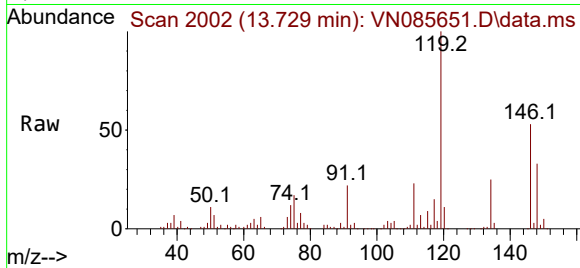
Tgt Ion:119 Resp: 167070
Ion Ratio Lower Upper
119 100
134 25.2 12.7 38.0
91 23.4 12.7 38.1





#87
1,3-Dichlorobenzene
Concen: 19.896 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

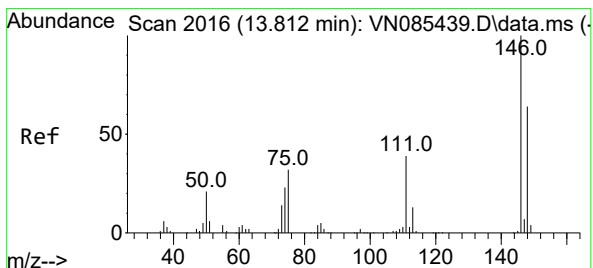
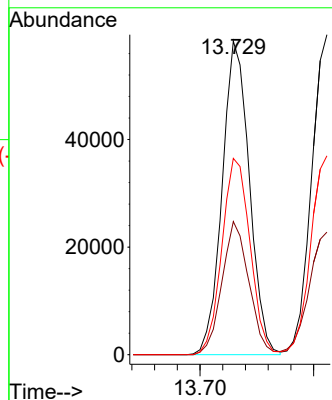
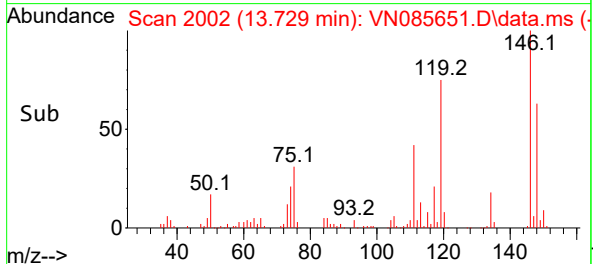
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



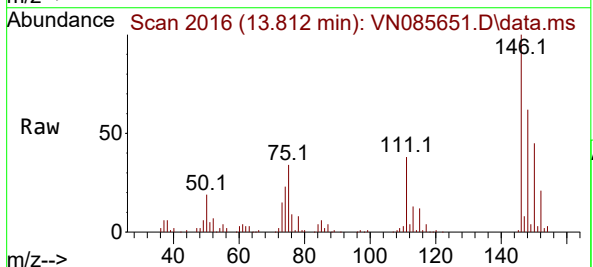
Tgt Ion:146 Resp: 97119
Ion Ratio Lower Upper
146 100
111 42.1 21.4 64.3
148 64.8 32.3 96.9

Manual Integrations
APPROVED

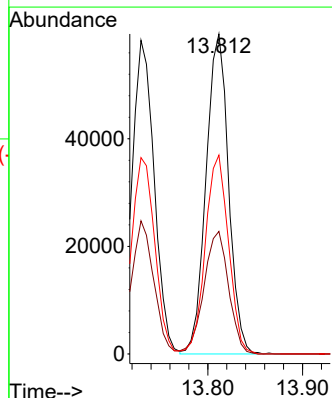
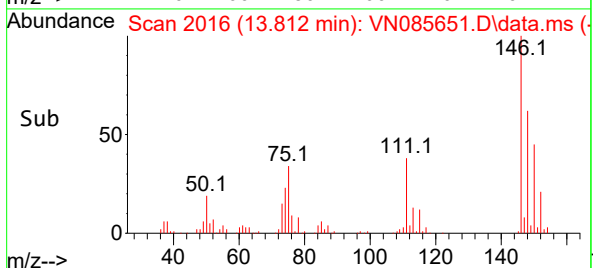
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

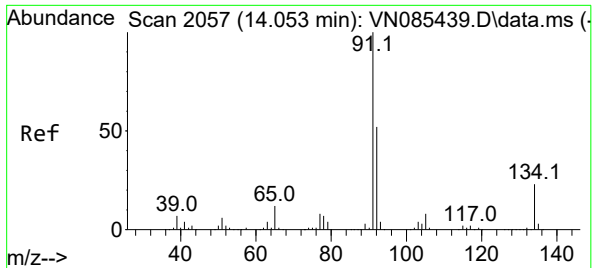


#88
1,4-Dichlorobenzene
Concen: 19.382 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51



Tgt Ion:146 Resp: 98065
Ion Ratio Lower Upper
146 100
111 42.0 21.3 63.7
148 64.1 32.4 97.0





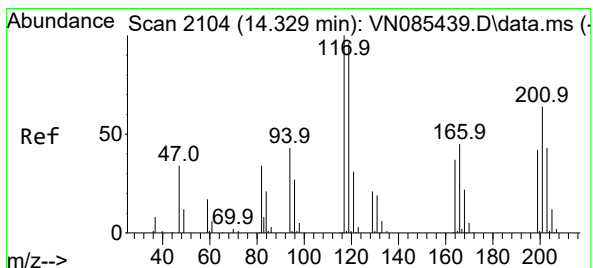
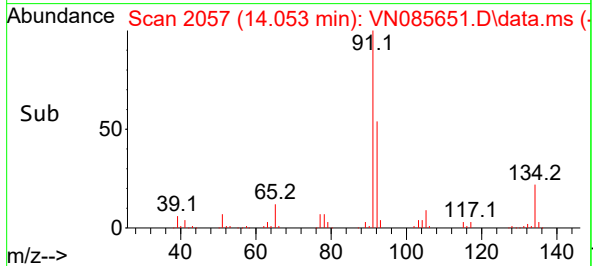
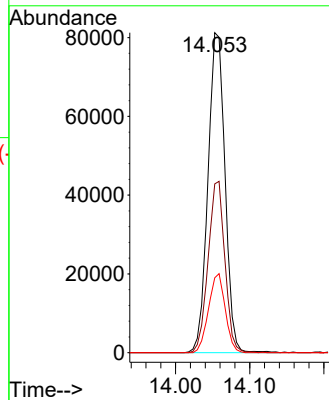
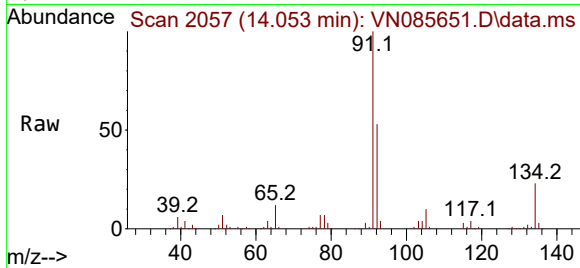
#89
n-Butylbenzene
Concen: 18.585 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion: 91 Resp: 13004
Ion Ratio Lower Upper
91 100
92 52.6 25.8 77.3
134 24.1 11.7 35.1

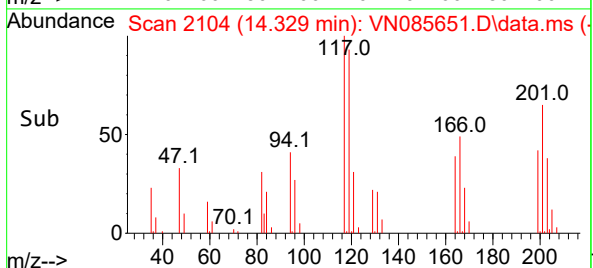
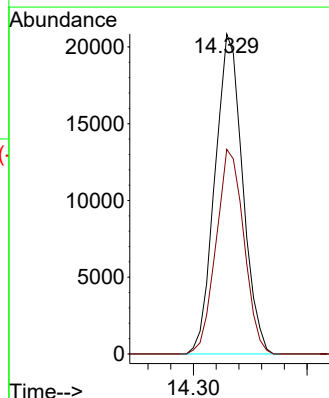
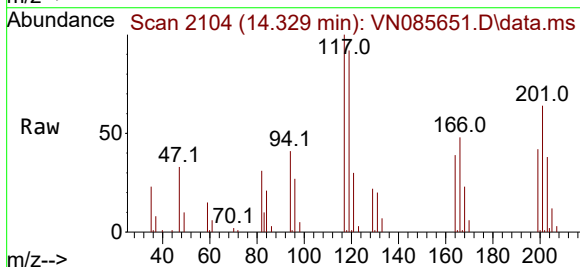
Manual Integrations
APPROVED

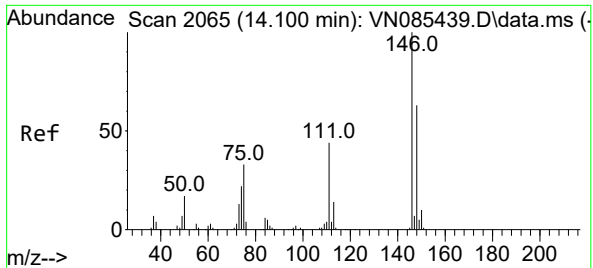
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#90
Hexachloroethane
Concen: 19.041 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

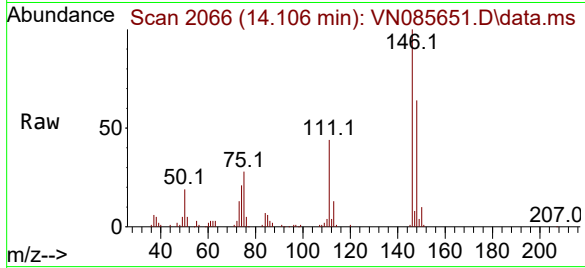
Tgt Ion:117 Resp: 35354
Ion Ratio Lower Upper
117 100
201 64.2 33.7 101.0





#91
1,2-Dichlorobenzene
Concen: 19.617 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

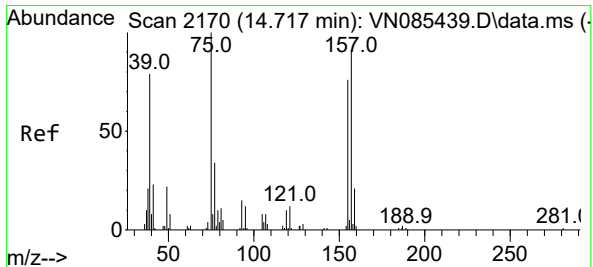
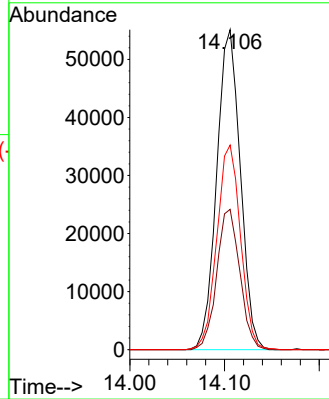
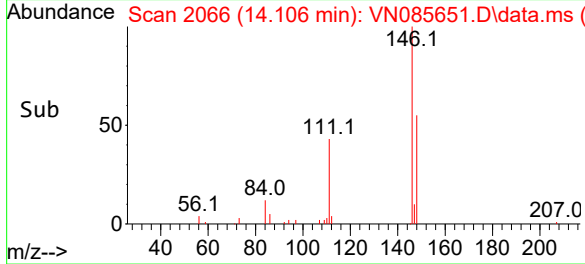
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



Tgt Ion:146 Resp: 9551
Ion Ratio Lower Upper
146 100
111 42.8 21.7 65.1
148 64.1 31.4 94.2

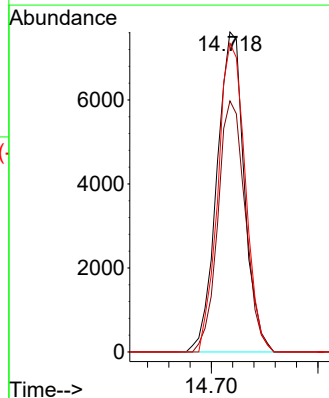
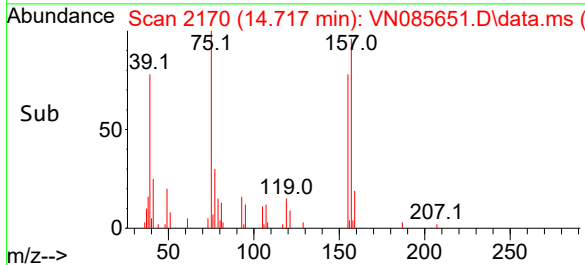
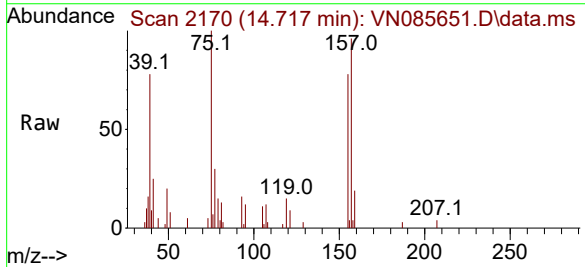
Manual Integrations
APPROVED

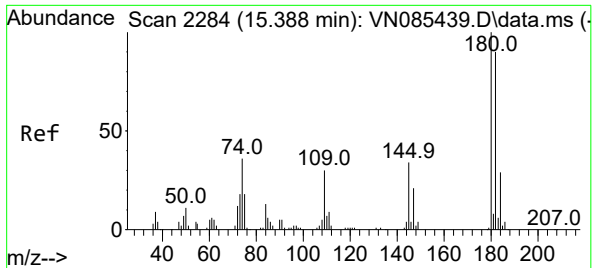
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.732 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

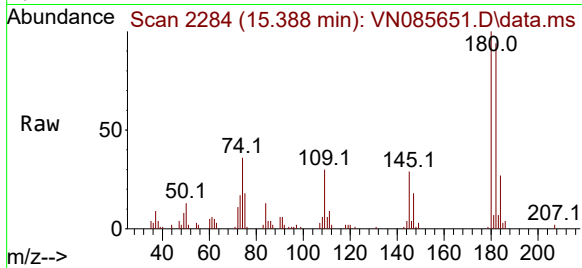
Tgt Ion: 75 Resp: 13567
Ion Ratio Lower Upper
75 100
155 78.3 36.4 109.2
157 95.9 45.4 136.1





#93
1,2,4-Trichlorobenzene
Concen: 17.519 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

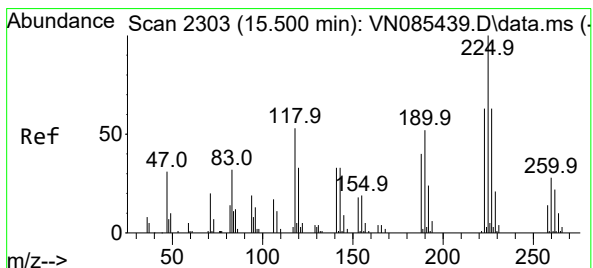
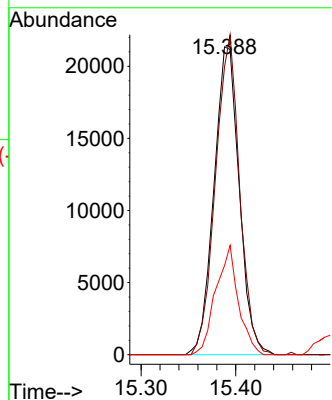
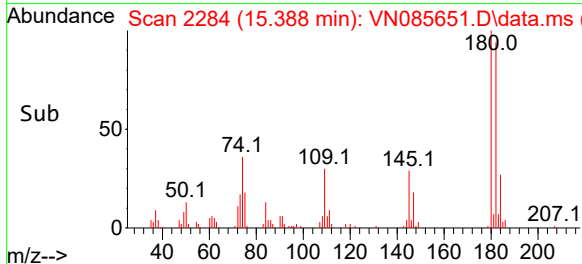
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



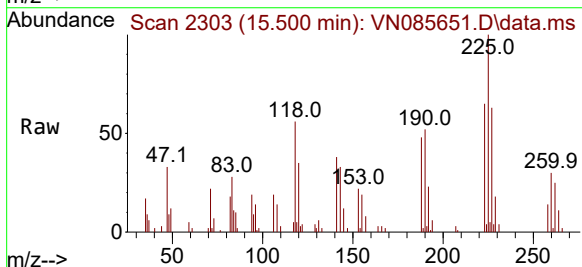
Tgt Ion:180 Resp: 3964
Ion Ratio Lower Upper
180 100
182 98.7 46.8 140.3
145 31.6 16.0 48.0

Manual Integrations
APPROVED

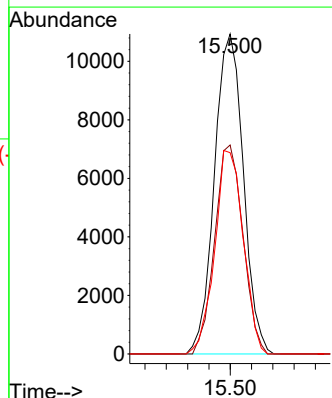
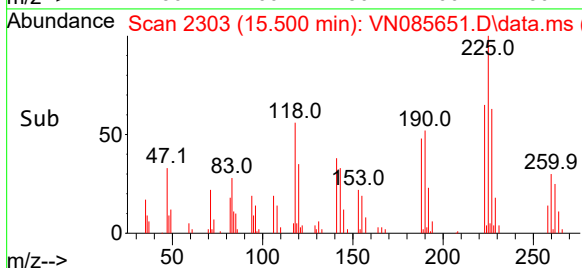
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

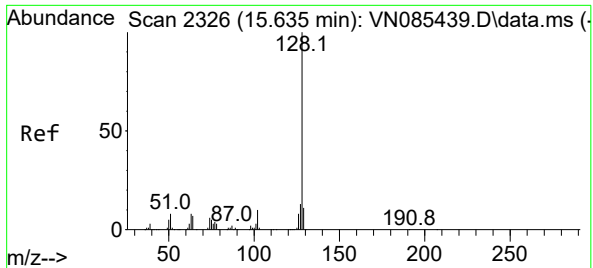


#94
Hexachlorobutadiene
Concen: 17.154 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51



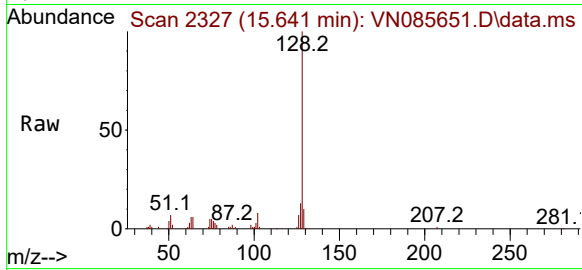
Tgt Ion:225 Resp: 20609
Ion Ratio Lower Upper
225 100
223 63.9 30.7 92.1
227 62.6 30.9 92.5





#95
Naphthalene
Concen: 18.276 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

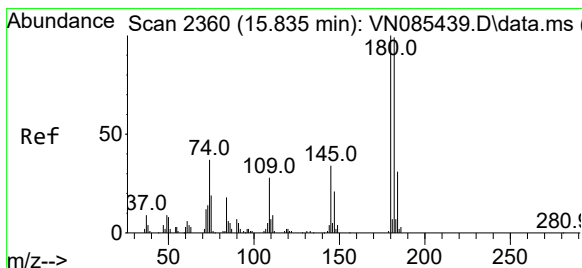
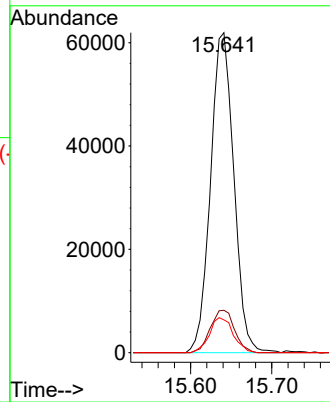
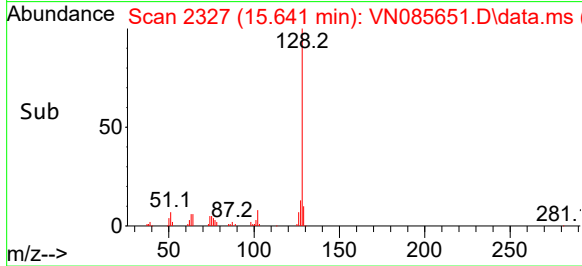
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02



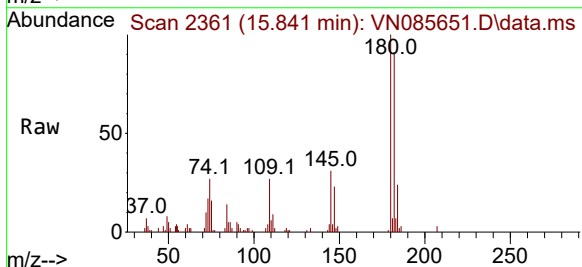
Tgt Ion:128 Resp: 12341
Ion Ratio Lower Upper
128 100
127 13.8 10.6 16.0
129 11.1 8.8 13.2

Manual Integrations
APPROVED

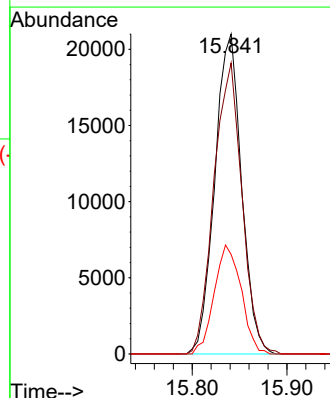
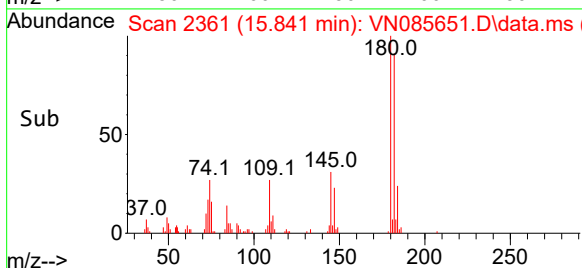
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.977 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51



Tgt Ion:180 Resp: 41163
Ion Ratio Lower Upper
180 100
182 95.5 47.4 142.2
145 34.3 16.9 50.7



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VN0204WBSD02		SDG No.:	Q1249
Lab Sample ID:	VN0204WBSD02		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085655.D	1		02/04/25 16:37	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	17.2		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.6		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	22.4		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.4		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.0		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.7		0.26	0.75	1.00	ug/L
67-64-1	Acetone	92.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	20.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.8		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	20.5		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	98.5		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.8		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	19.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.1		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.7		0.19	0.50	1.00	ug/L
71-43-2	Benzene	22.2		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.4		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.3		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.0		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.9		0.75	2.50	5.00	ug/L
108-88-3	Toluene	21.5		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0204WBSD02	SDG No.:	Q1249
Lab Sample ID:	VN0204WBSD02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085655.D	1		02/04/25 16:37	VN020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.8		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	45.4		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	23.0		0.14	0.50	1.00	ug/L
100-42-5	Styrene	23.1		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	21.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	23.4		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.1		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	48.0		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	250000	8.224				
540-36-3	1,4-Difluorobenzene	394000	9.1				
3114-55-4	Chlorobenzene-d5	352000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	163000	13.788				

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\VN020425\
 Data File : VN085655.D
 Acq On : 04 Feb 2025 16:37
 Operator : JC\MD
 Sample : VN0204WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

Quant Time: Feb 05 01:07:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	250474	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	394206	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352019	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	163365	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	172816	42.743	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.480%		
35) Dibromofluoromethane	8.165	113	142777	52.207	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.420%		
50) Toluene-d8	10.565	98	466570	48.017	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.040%		
62) 4-Bromofluorobenzene	12.847	95	159331	47.936	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.880%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	67634	19.943	ug/l	98
3) Chloromethane	2.359	50	63076	17.178	ug/l	100
4) Vinyl Chloride	2.506	62	76128	20.627	ug/l	97
5) Bromomethane	2.953	94	49884	22.376	ug/l	98
6) Chloroethane	3.118	64	50094	21.408	ug/l #	87
7) Trichlorofluoromethane	3.495	101	112309	20.972	ug/l	100
8) Diethyl Ether	3.965	74	38321	20.714	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.377	101	63013	20.891	ug/l	98
10) Methyl Iodide	4.589	142	81140	23.491	ug/l #	97
11) Tert butyl alcohol	5.518	59	52265	112.891	ug/l	99
12) 1,1-Dichloroethene	4.336	96	58315	21.693	ug/l	88
13) Acrolein	4.177	56	40152	63.532	ug/l	99
14) Allyl chloride	5.024	41	74722	17.130	ug/l	95
15) Acrylonitrile	5.718	53	148522	100.998	ug/l	99
16) Acetone	4.424	43	121256	92.818	ug/l	94
17) Carbon Disulfide	4.706	76	168991	20.417	ug/l	99
18) Methyl Acetate	5.024	43	73954	18.617	ug/l	92
19) Methyl tert-butyl Ether	5.794	73	190486	21.823	ug/l	96
20) Methylene Chloride	5.277	84	66374	20.523	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	59956	20.870	ug/l	96
22) Diisopropyl ether	6.671	45	179895	18.581	ug/l	97
23) Vinyl Acetate	6.606	43	648302	95.681	ug/l	96
24) 1,1-Dichloroethane	6.559	63	113758	19.269	ug/l	97
25) 2-Butanone	7.483	43	189350	98.494	ug/l	94
26) 2,2-Dichloropropane	7.488	77	100142	20.981	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	70286	20.772	ug/l	94
28) Bromochloromethane	7.812	49	42897	15.618	ug/l #	82
29) Tetrahydrofuran	7.841	42	123148	101.037	ug/l	89
30) Chloroform	7.965	83	120068	19.678	ug/l	95
31) Cyclohexane	8.253	56	92756	18.077	ug/l #	87
32) 1,1,1-Trichloroethane	8.171	97	107522	20.090	ug/l	94
36) 1,1-Dichloropropene	8.371	75	80237	20.905	ug/l	97
37) Ethyl Acetate	7.559	43	75695	19.538	ug/l #	95
38) Carbon Tetrachloride	8.359	117	93378	21.250	ug/l	99
39) Methylcyclohexane	9.600	83	74735	20.720	ug/l	94
40) Benzene	8.606	78	256293	22.223	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085655.D
 Acq On : 04 Feb 2025 16:37
 Operator : JC\MD
 Sample : VN0204WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/05/2025
 Supervised By : Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:07:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	42732	21.201	ug/l	94
42) 1,2-Dichloroethane	8.665	62	80112	18.444	ug/l	98
43) Isopropyl Acetate	8.688	43	129867	20.920	ug/l	100
44) Trichloroethene	9.353	130	54471	20.291	ug/l	96
45) 1,2-Dichloropropane	9.618	63	54518	18.507	ug/l	92
46) Dibromomethane	9.706	93	42107	19.810	ug/l	97
47) Bromodichloromethane	9.888	83	82292	19.003	ug/l	99
48) Methyl methacrylate	9.682	41	50846	18.201	ug/l #	86
49) 1,4-Dioxane	9.694	88	19845	421.835	ug/l	92
51) 4-Methyl-2-Pentanone	10.441	43	349156	96.926	ug/l	93
52) Toluene	10.629	92	143888	21.533	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	82951	20.270	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	88864	20.329	ug/l #	89
55) 1,1,2-Trichloroethane	11.018	97	55559	21.009	ug/l	95
56) Ethyl methacrylate	10.871	69	83221	19.891	ug/l	88
57) 1,3-Dichloropropane	11.165	76	93182	20.265	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	114733	68.367	ug/l	95
59) 2-Hexanone	11.194	43	256296	101.116	ug/l	92
60) Dibromochloromethane	11.359	129	63273	19.818	ug/l	98
61) 1,2-Dibromoethane	11.465	107	54817	20.824	ug/l	100
64) Tetrachloroethene	11.100	164	49290	20.539	ug/l	98
65) Chlorobenzene	11.888	112	159321	20.660	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	54350	19.203	ug/l	98
67) Ethyl Benzene	11.965	91	268719	21.395	ug/l	100
68) m/p-Xylenes	12.070	106	210638	45.376	ug/l	93
69) o-Xylene	12.400	106	102151	23.027	ug/l	98
70) Styrene	12.412	104	169955	23.149	ug/l	95
71) Bromoform	12.576	173	42989	21.228	ug/l #	100
73) Isopropylbenzene	12.694	105	257943	23.395	ug/l	100
74) N-amyl acetate	12.494	43	100117	20.202	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	78295	20.103	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	64365m	19.385	ug/l	
77) Bromobenzene	12.982	156	62751	21.784	ug/l	90
78) n-propylbenzene	13.035	91	286507	21.950	ug/l	94
79) 2-Chlorotoluene	13.123	91	179331	21.229	ug/l	95
80) 1,3,5-Trimethylbenzene	13.170	105	202037	22.184	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	27819m	22.668	ug/l	
82) 4-Chlorotoluene	13.217	91	173140	20.584	ug/l	95
83) tert-Butylbenzene	13.435	119	180098	23.548	ug/l	93
84) 1,2,4-Trimethylbenzene	13.482	105	208039	22.919	ug/l	96
85) sec-Butylbenzene	13.612	105	242783	22.904	ug/l	98
86) p-Isopropyltoluene	13.729	119	204722	22.987	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	106100	20.000	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	107417	19.535	ug/l	99
89) n-Butylbenzene	14.053	91	175860	23.126	ug/l	98
90) Hexachloroethane	14.329	117	37770	18.717	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	107206	20.260	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	15213	21.390	ug/l	85
93) 1,2,4-Trichlorobenzene	15.388	180	51534	20.954	ug/l	95
94) Hexachlorobutadiene	15.500	225	21348	16.350	ug/l	96
95) Naphthalene	15.635	128	208295	28.382	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.841	180	49703	19.973	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085655.D
Acq On : 04 Feb 2025 16:37
Operator : JC\MD
Sample : VN0204WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

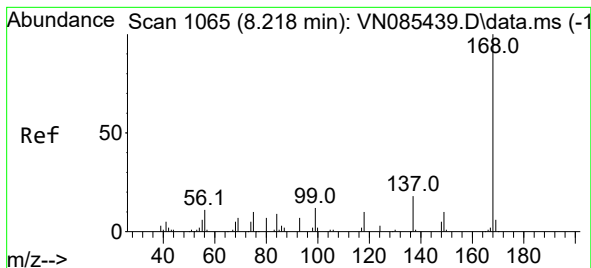
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

Quant Time: Feb 05 01:07:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

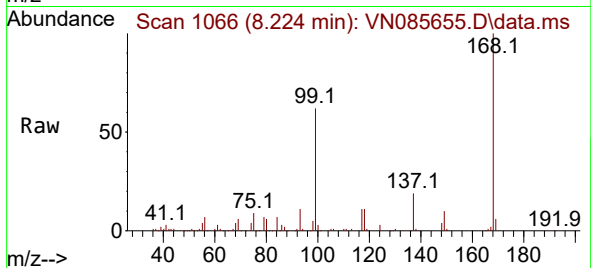
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

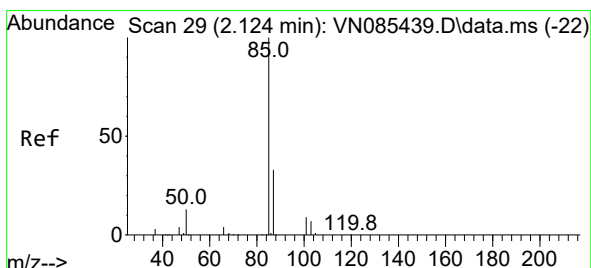
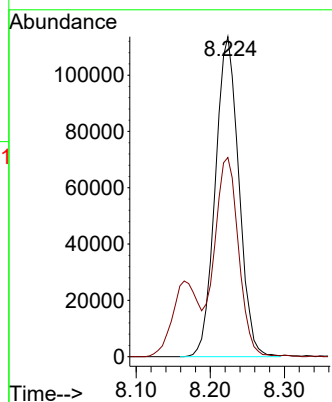
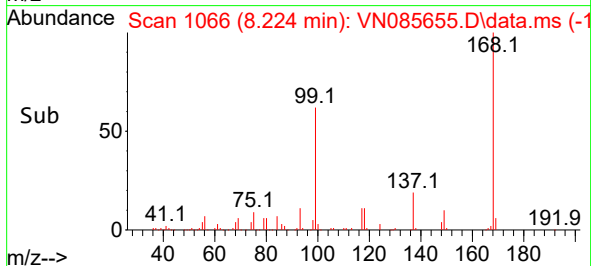
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion:168 Resp: 250474
Ion Ratio Lower Upper
168 100
99 61.9 53.6 80.4

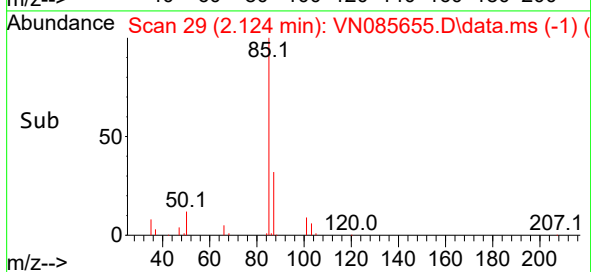
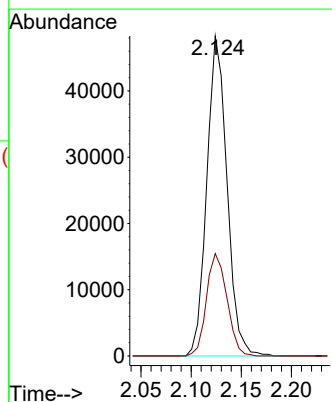
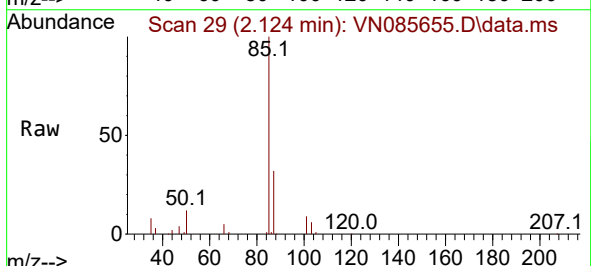
Manual Integrations
APPROVED

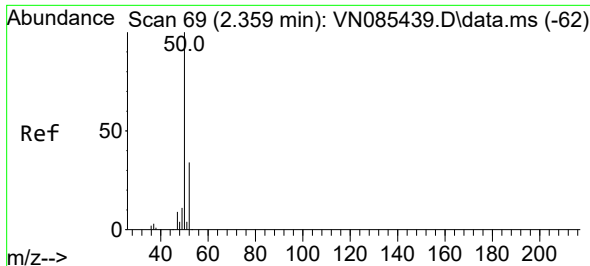
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#2
Dichlorodifluoromethane
Concen: 19.943 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

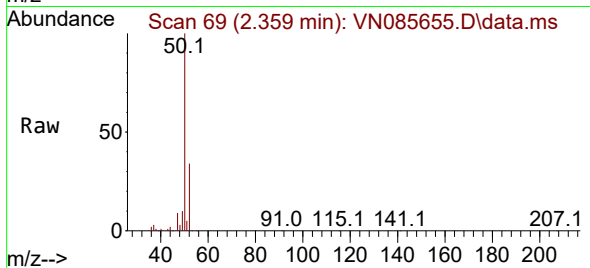
Tgt Ion: 85 Resp: 67634
Ion Ratio Lower Upper
85 100
87 32.0 16.7 50.1





#3
Chloromethane
Concen: 17.178 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

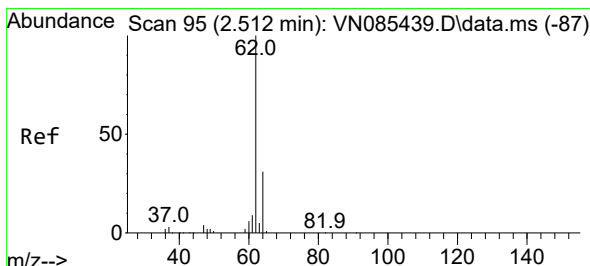
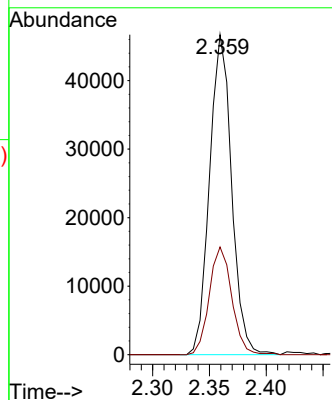
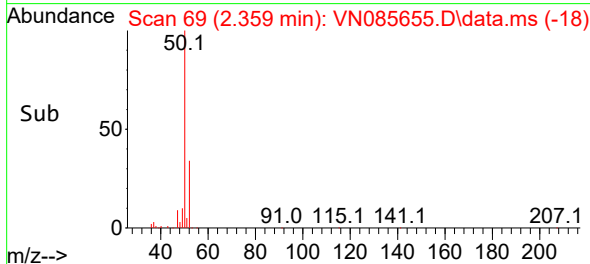
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



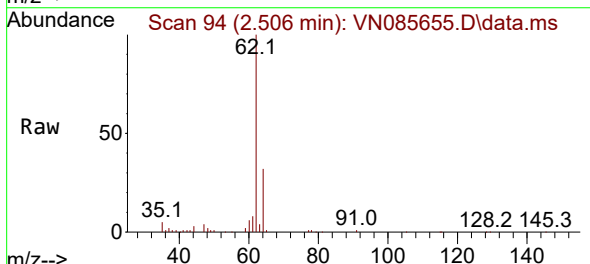
Tgt Ion: 50 Resp: 63070
Ion Ratio Lower Upper
50 100
52 33.7 27.0 40.6

Manual Integrations
APPROVED

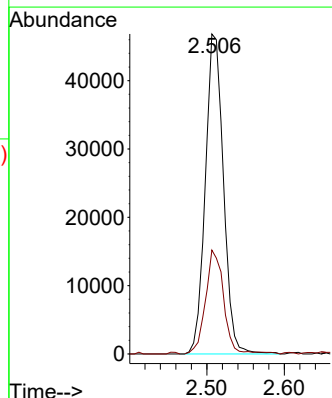
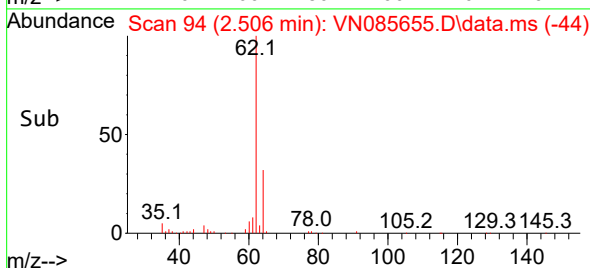
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

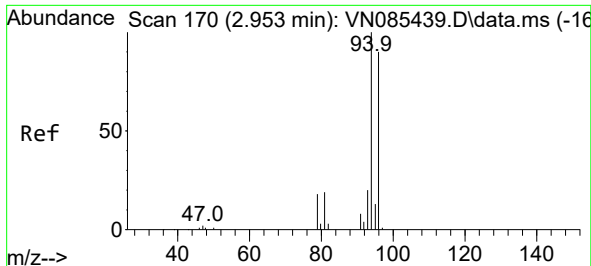


#4
Vinyl Chloride
Concen: 20.627 ug/l
RT: 2.506 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



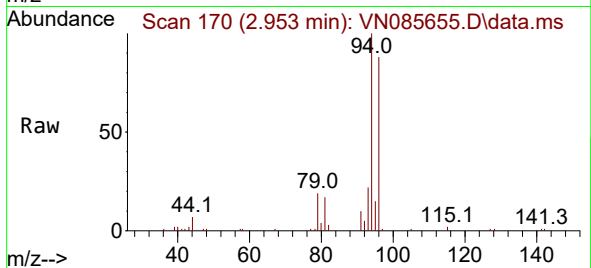
Tgt Ion: 62 Resp: 76128
Ion Ratio Lower Upper
62 100
64 32.5 24.8 37.2





#5
Bromomethane
Concen: 22.376 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

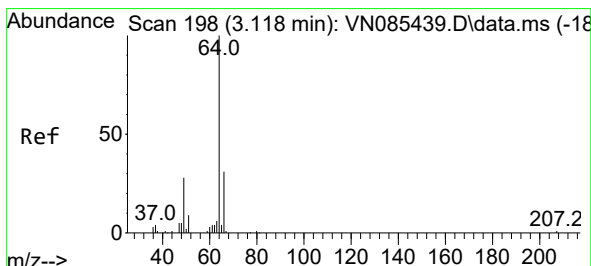
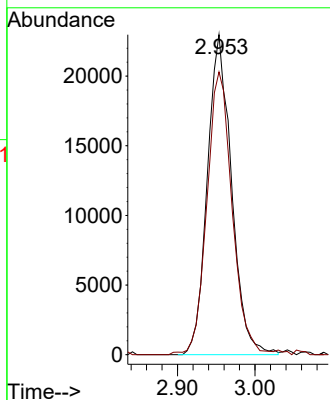
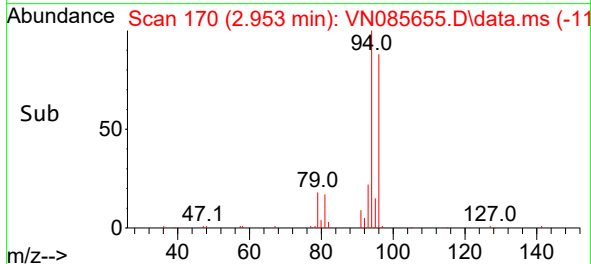
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion: 94 Resp: 49884
Ion Ratio Lower Upper
94 100
96 87.6 71.8 107.6

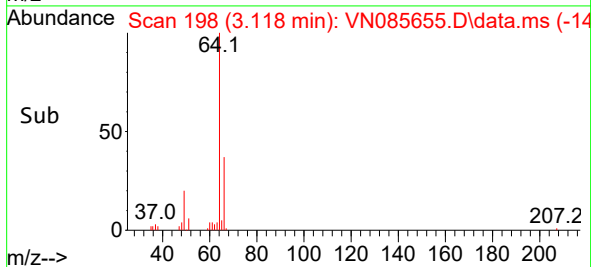
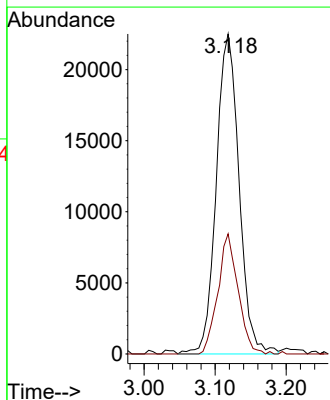
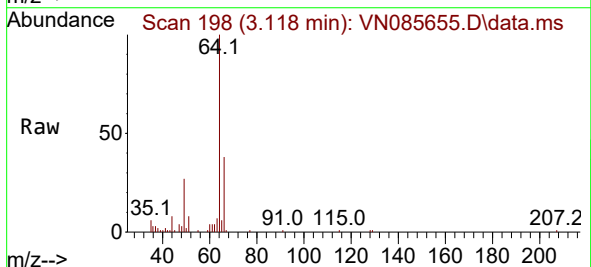
Manual Integrations
APPROVED

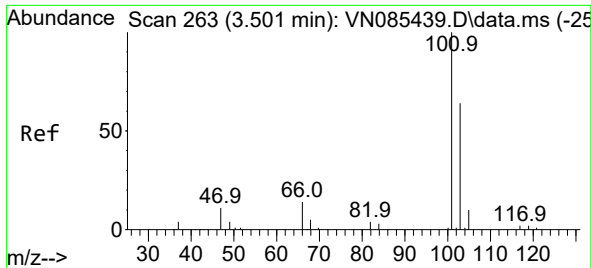
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#6
Chloroethane
Concen: 21.408 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 64 Resp: 50094
Ion Ratio Lower Upper
64 100
66 37.5 24.6 36.8#





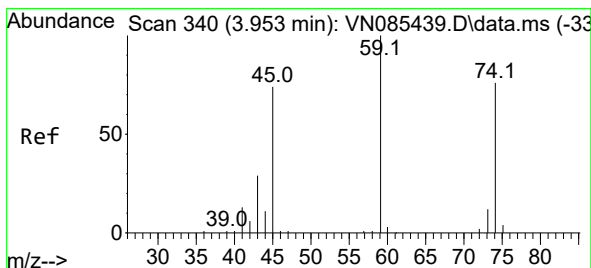
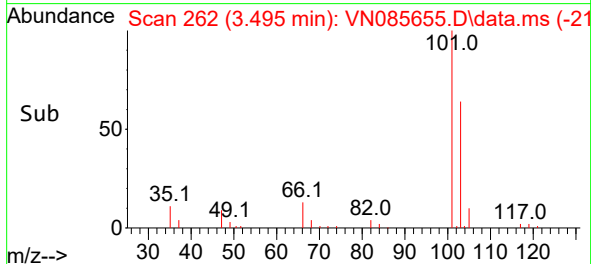
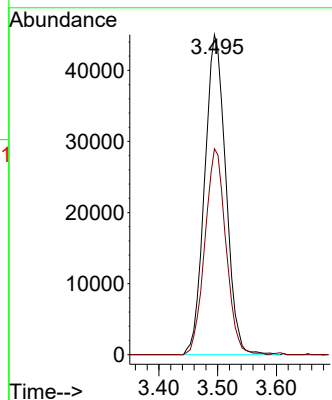
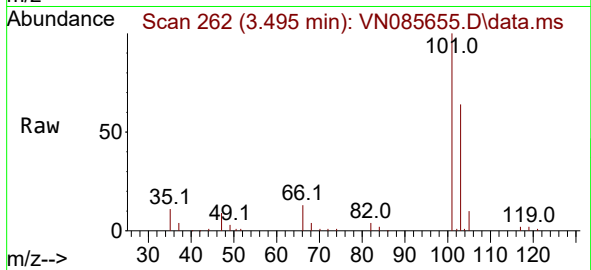
#7
Trichlorofluoromethane
Concen: 20.972 ug/l
RT: 3.495 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion:101 Resp: 112309
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2

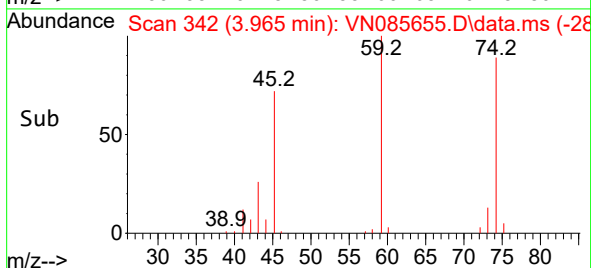
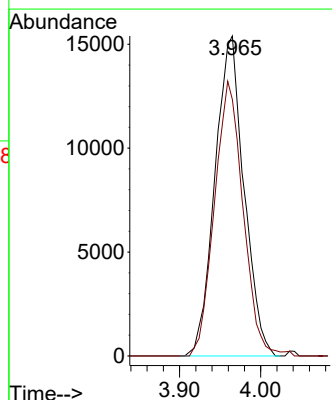
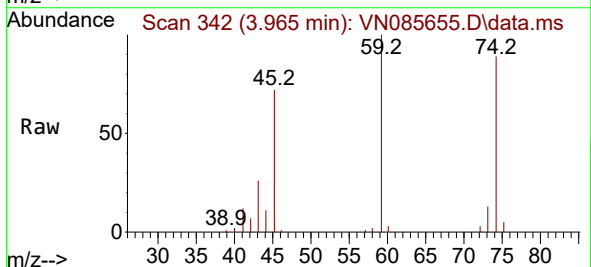
Manual Integrations
APPROVED

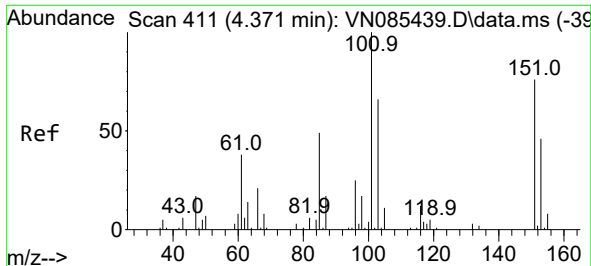
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#8
Diethyl Ether
Concen: 20.714 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 74 Resp: 38321
Ion Ratio Lower Upper
74 100
45 84.5 49.7 149.1





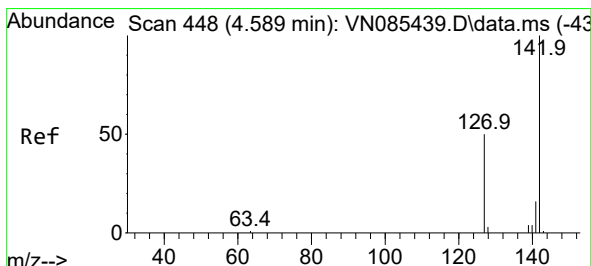
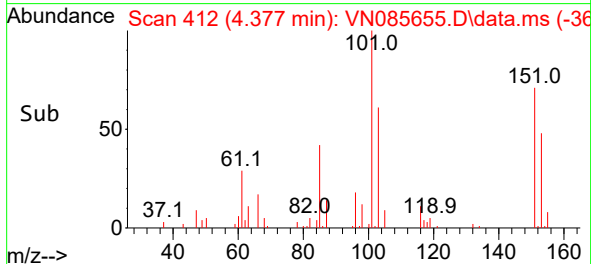
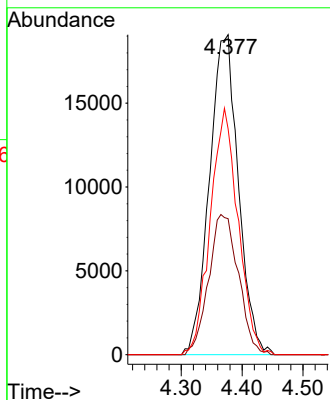
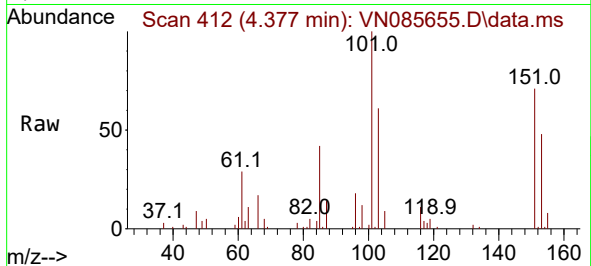
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.891 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion:101 Resp: 6301
Ion Ratio Lower Upper
101 100
85 45.0 37.8 56.8
151 73.8 58.8 88.2

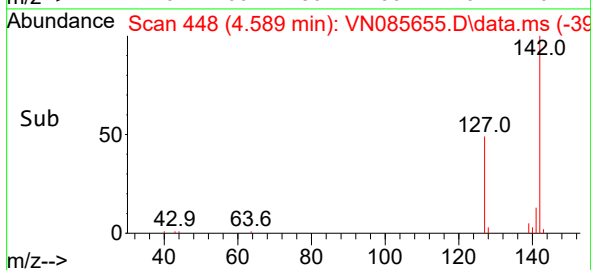
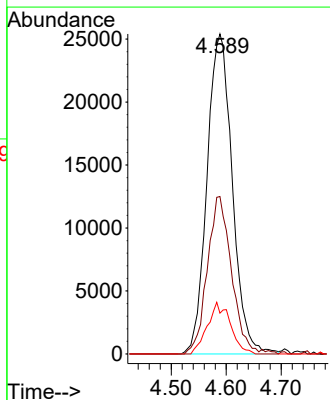
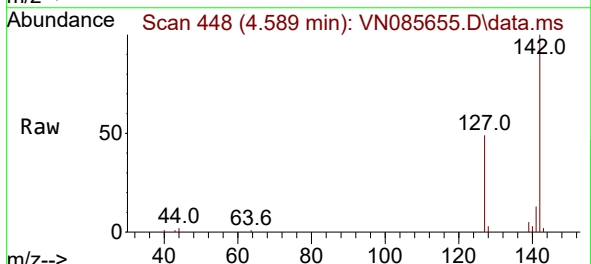
Manual Integrations
APPROVED

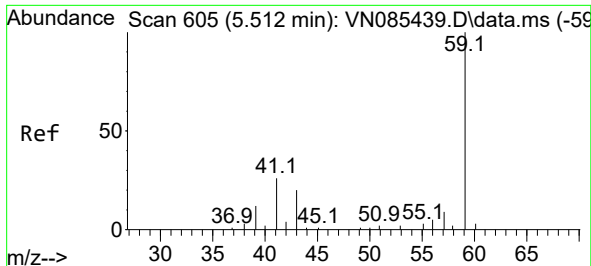
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#10
Methyl Iodide
Concen: 23.491 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

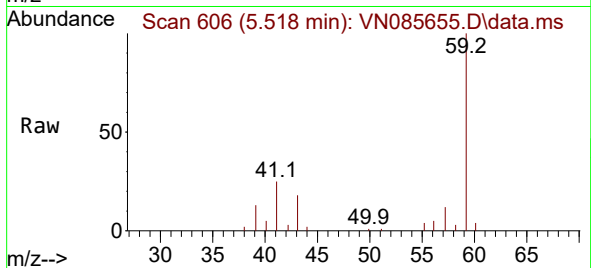
Tgt Ion:142 Resp: 81140
Ion Ratio Lower Upper
142 100
127 49.2 40.3 60.5
141 12.8 12.8 19.2#





#11
Tert butyl alcohol
Concen: 112.891 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

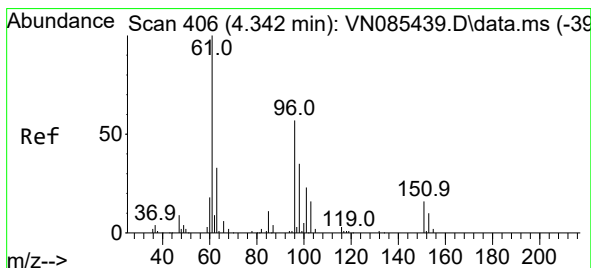
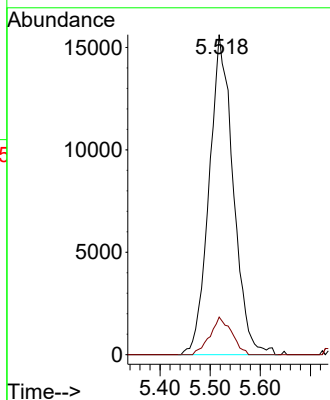
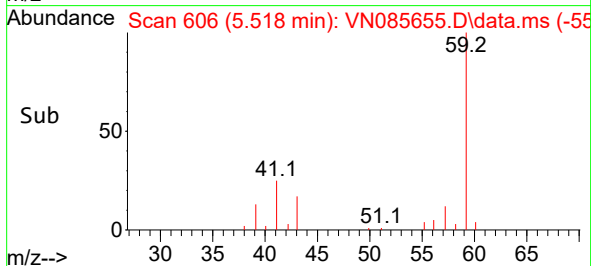
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



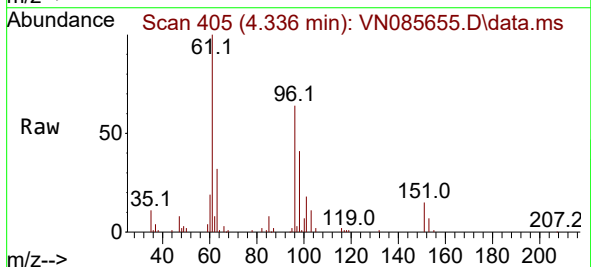
Tgt Ion: 59 Resp: 5226
Ion Ratio Lower Upper
59 100
57 10.5 8.6 13.0

Manual Integrations
APPROVED

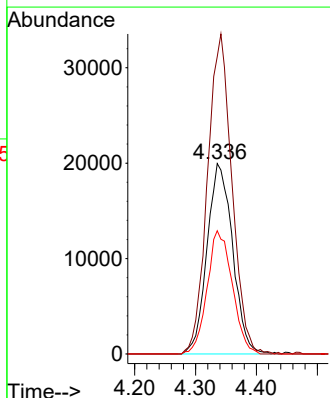
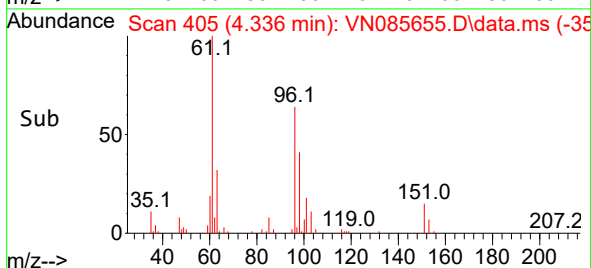
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

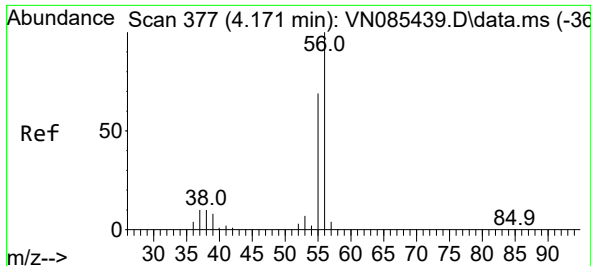


#12
1,1-Dichloroethene
Concen: 21.693 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 96 Resp: 58315
Ion Ratio Lower Upper
96 100
61 156.2 141.0 211.4
98 64.7 49.0 73.6





#13

Acrolein

Concen: 63.532 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

Tgt Ion: 56 Resp: 4015

Ion Ratio Lower Upper

56 100

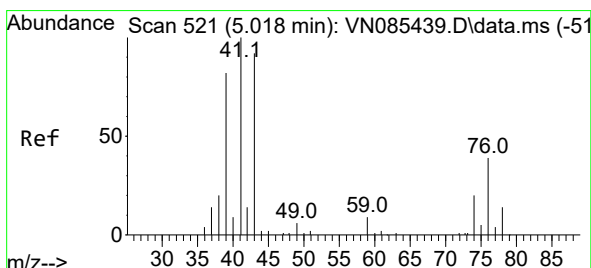
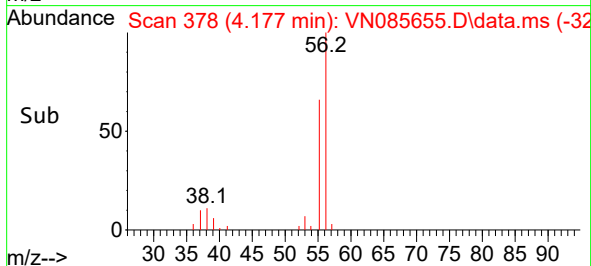
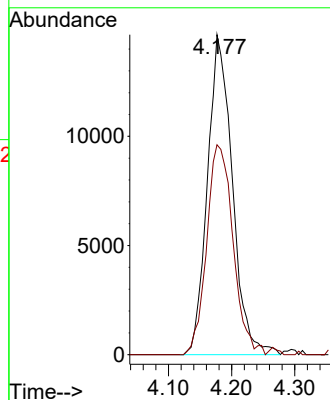
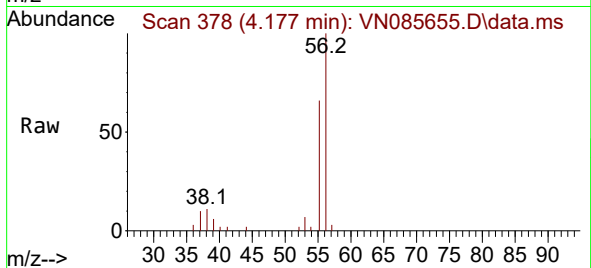
55 69.4 56.3 84.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#14

Allyl chloride

Concen: 17.130 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

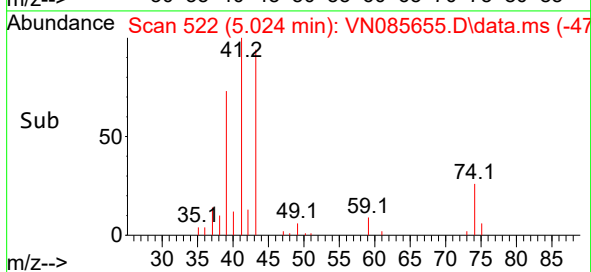
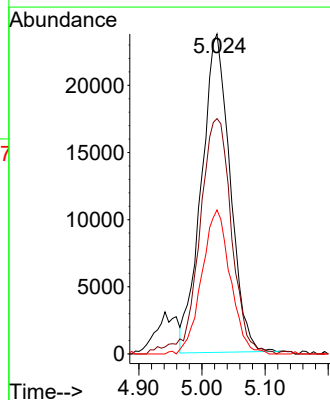
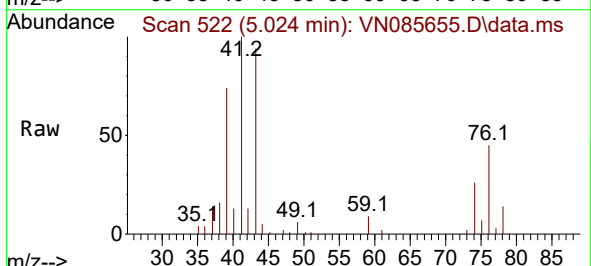
Tgt Ion: 41 Resp: 74722

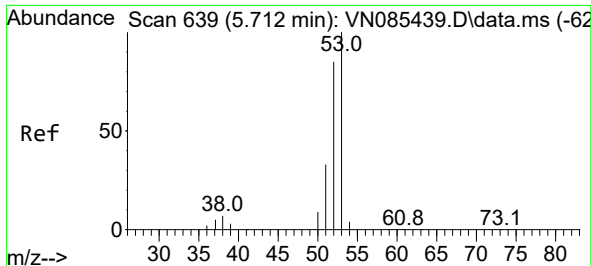
Ion Ratio Lower Upper

41 100

39 82.0 64.4 96.6

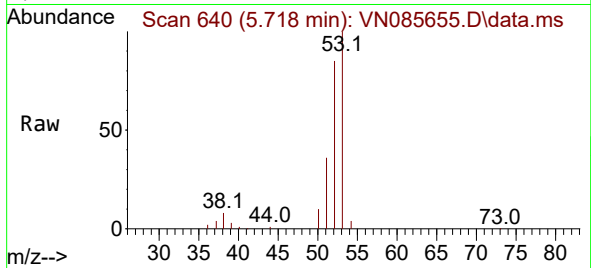
76 45.2 30.5 45.7





#15
Acrylonitrile
Concen: 100.998 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

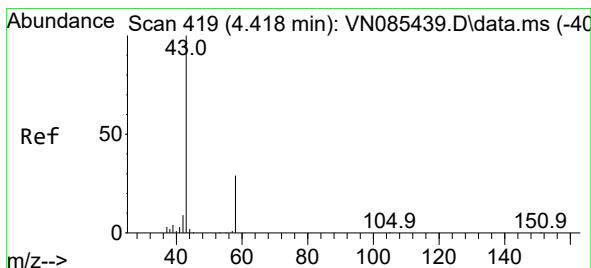
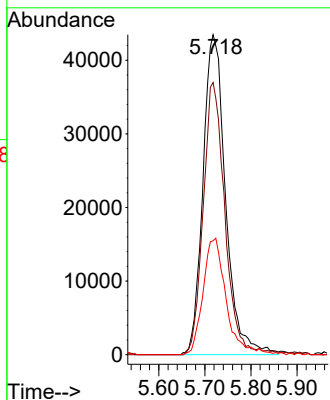
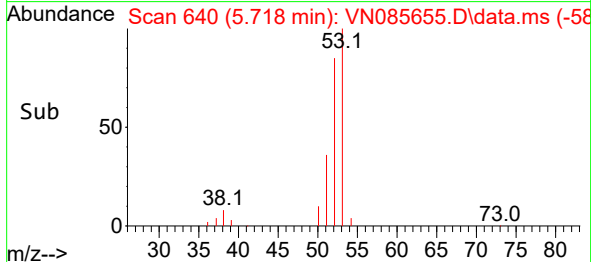
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion: 53 Resp: 14852
Ion Ratio Lower Upper
53 100
52 81.1 65.5 98.3
51 36.5 29.8 44.8

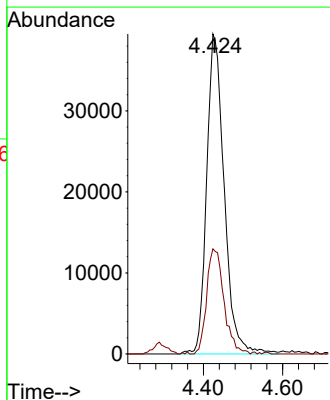
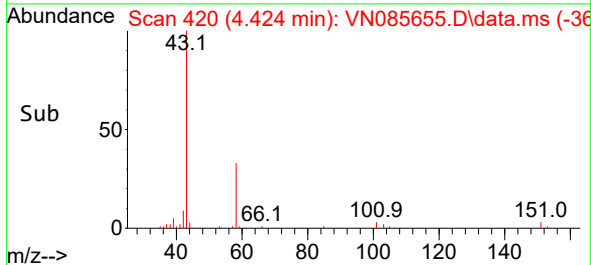
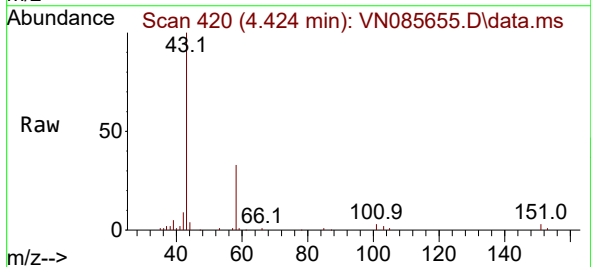
Manual Integrations
APPROVED

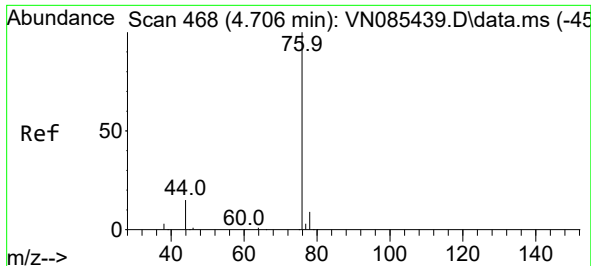
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#16
Acetone
Concen: 92.818 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

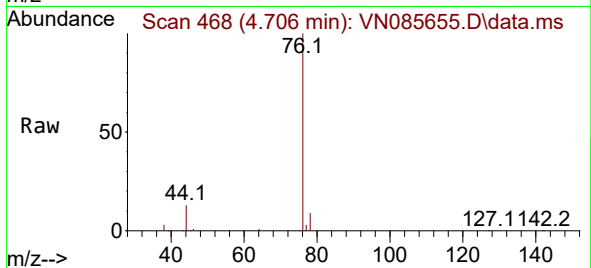
Tgt Ion: 43 Resp: 121256
Ion Ratio Lower Upper
43 100
58 32.9 23.8 35.6





#17
Carbon Disulfide
Concen: 20.417 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

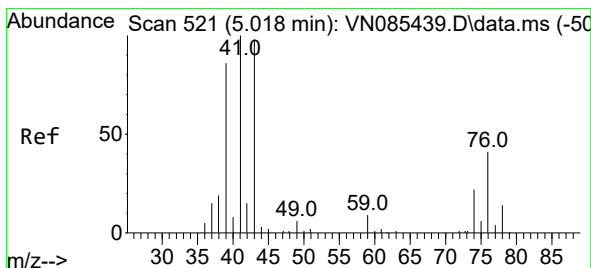
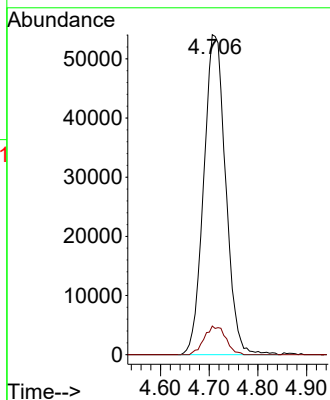
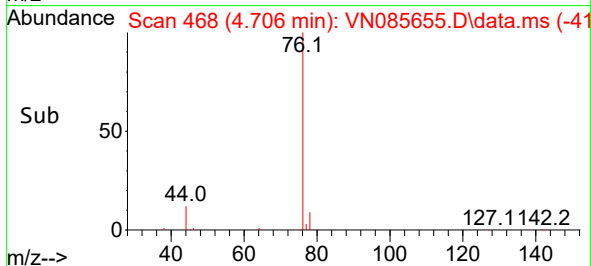
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



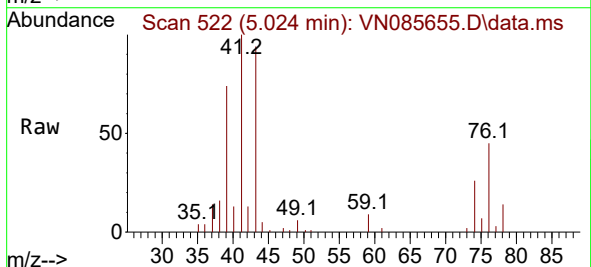
Tgt Ion: 76 Resp: 16899
Ion Ratio Lower Upper
76 100
78 8.9 6.9 10.3

Manual Integrations
APPROVED

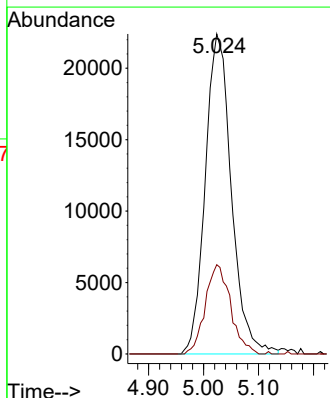
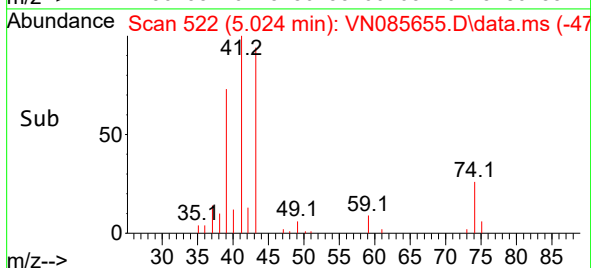
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

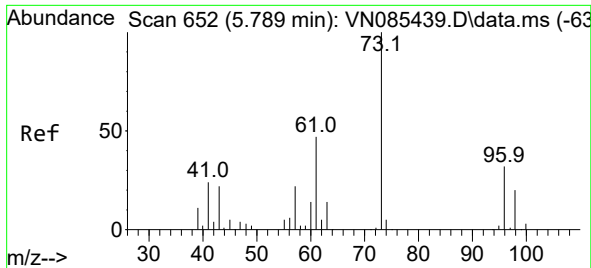


#18
Methyl Acetate
Concen: 18.617 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 43 Resp: 73954
Ion Ratio Lower Upper
43 100
74 27.0 18.6 28.0





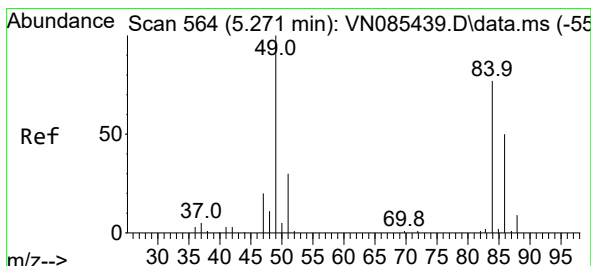
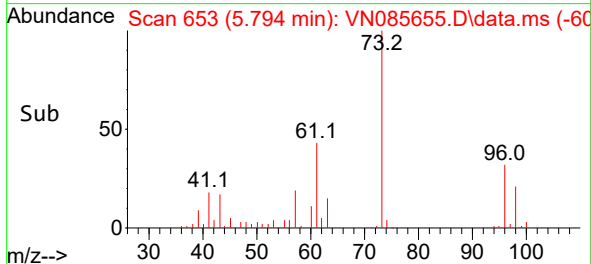
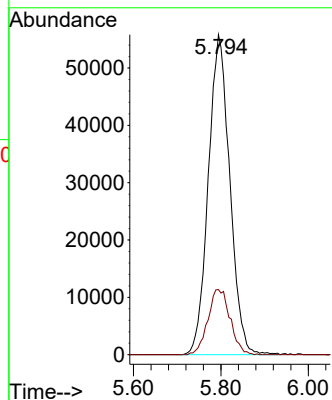
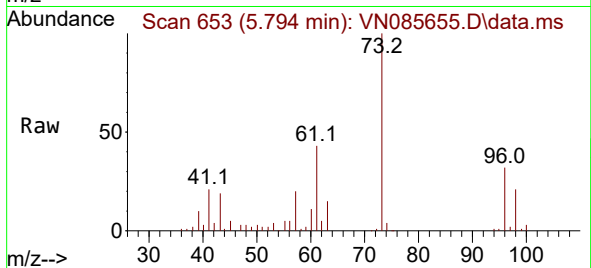
#19
Methyl tert-butyl Ether
Concen: 21.823 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion: 73 Resp: 190486
Ion Ratio Lower Upper
73 100
57 20.3 17.8 26.8

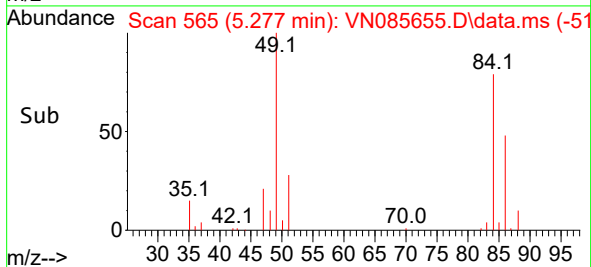
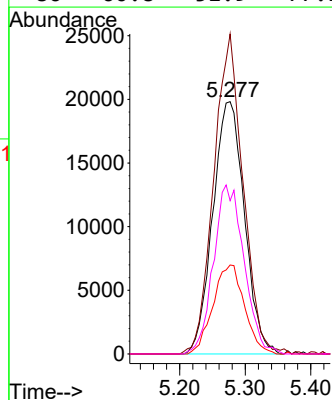
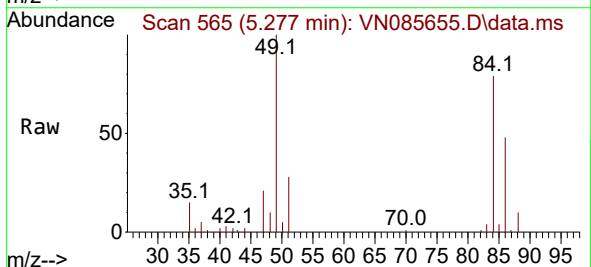
Manual Integrations
APPROVED

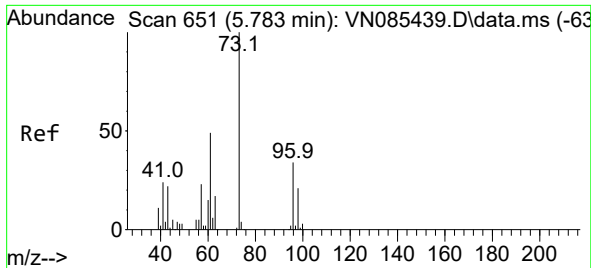
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#20
Methylene Chloride
Concen: 20.523 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

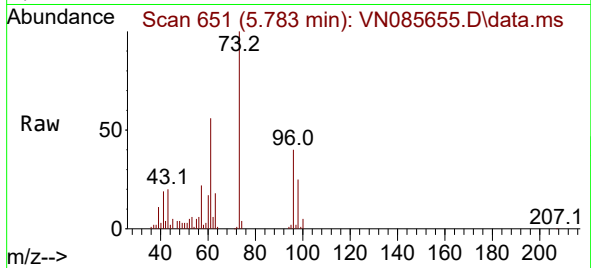
Tgt Ion: 84 Resp: 66374
Ion Ratio Lower Upper
84 100
49 126.8 104.1 156.1
51 35.3 31.0 46.4
86 60.8 51.9 77.9





#21
trans-1,2-Dichloroethene
Concen: 20.870 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

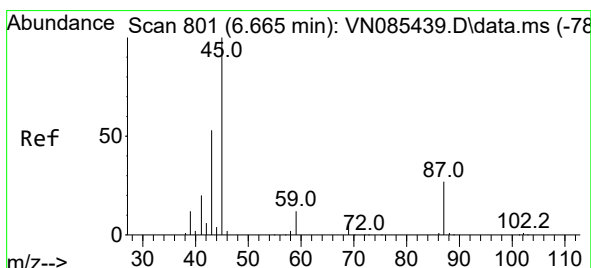
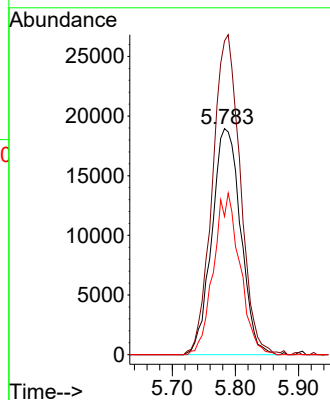
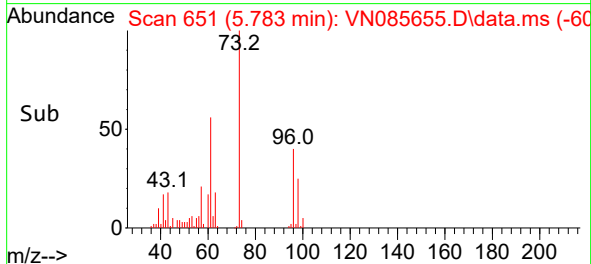
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



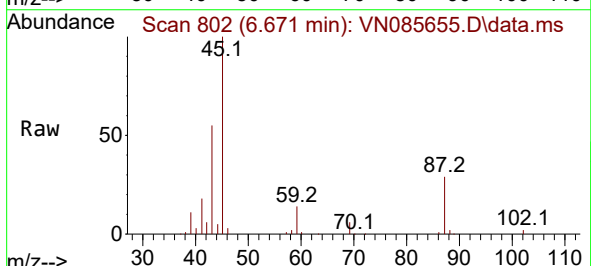
Tgt Ion: 96 Resp: 5995
Ion Ratio Lower Upper
96 100
61 138.8 115.7 173.5
98 61.2 49.8 74.8

Manual Integrations
APPROVED

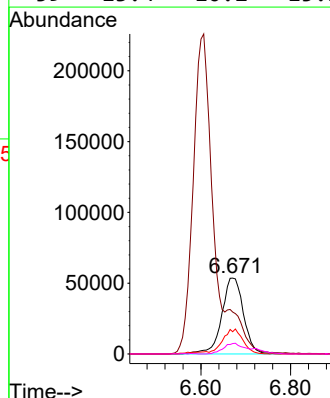
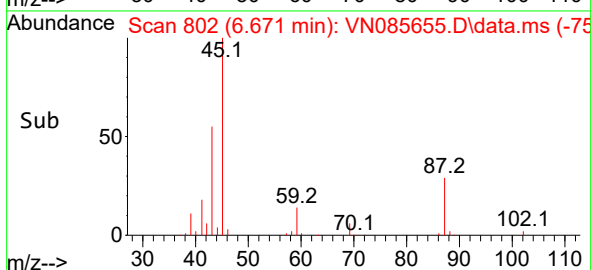
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

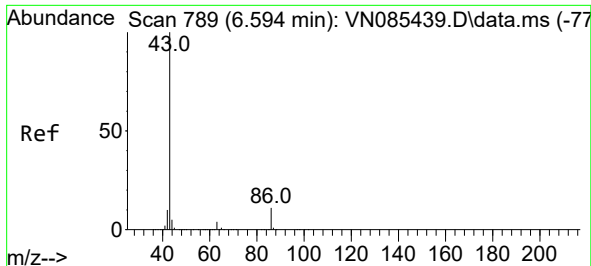


#22
Diisopropyl ether
Concen: 18.581 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



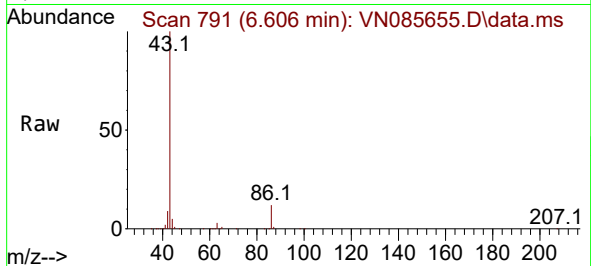
Tgt Ion: 45 Resp: 179895
Ion Ratio Lower Upper
45 100
43 53.7 45.0 67.6
87 29.4 21.8 32.8
59 13.4 10.2 15.2





#23
 Vinyl Acetate
 Concen: 95.681 ug/l
 RT: 6.606 min Scan# 791
 Delta R.T. 0.012 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

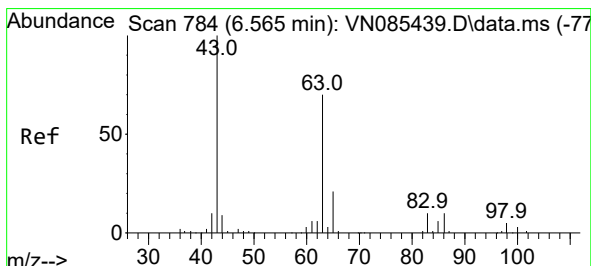
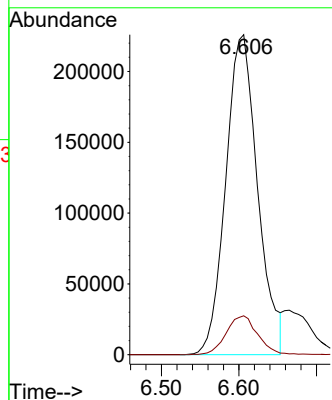
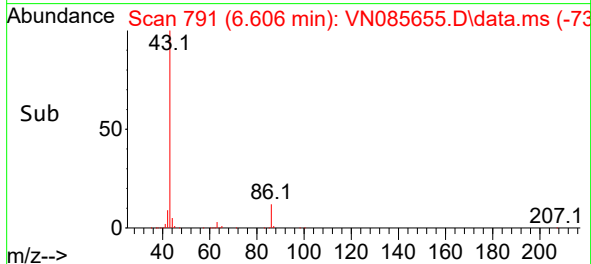
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02



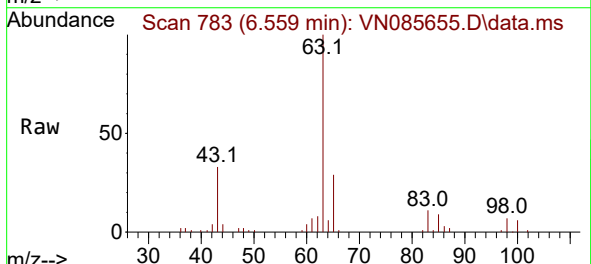
Tgt Ion: 43 Resp: 64830
 Ion Ratio Lower Upper
 43 100
 86 12.1 8.4 12.6

Manual Integrations
 APPROVED

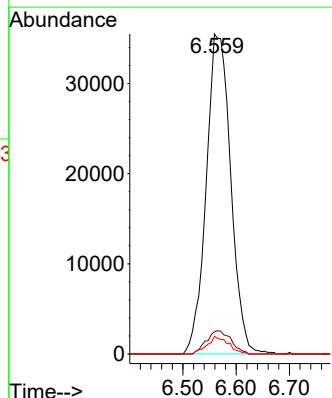
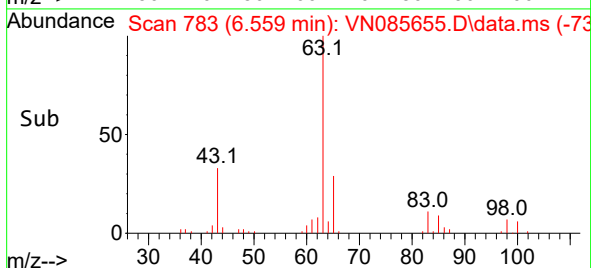
Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

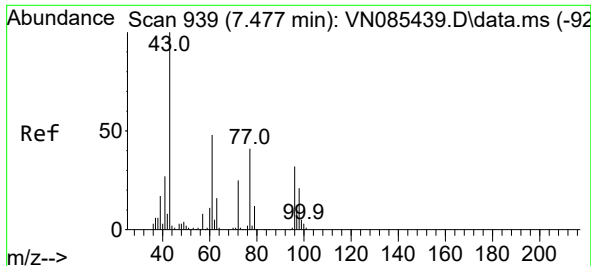


#24
 1,1-Dichloroethane
 Concen: 19.269 ug/l
 RT: 6.559 min Scan# 783
 Delta R.T. -0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37



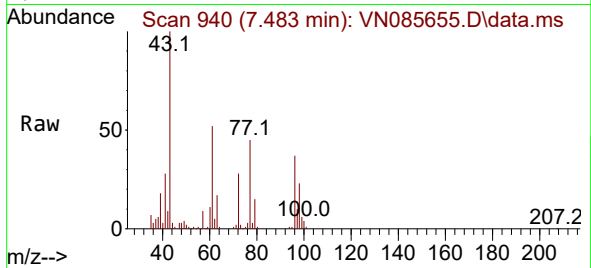
Tgt Ion: 63 Resp: 113758
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.3 9.8
 100 5.5 2.0 6.0





#25
2-Butanone
Concen: 98.494 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

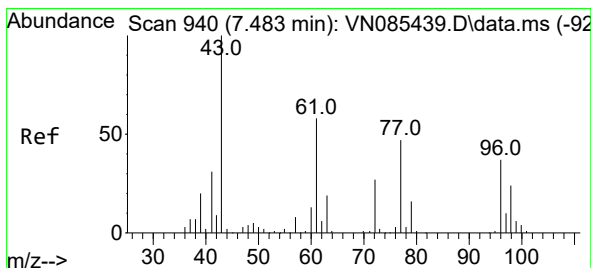
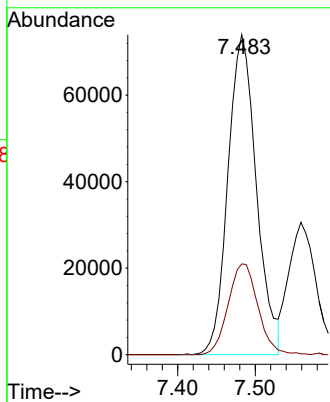
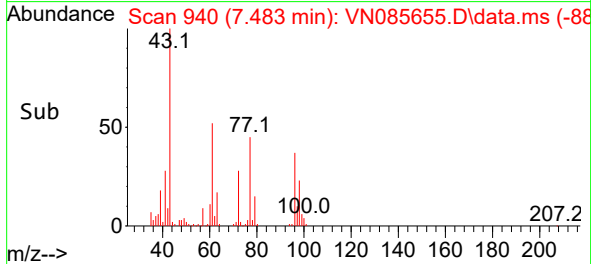
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



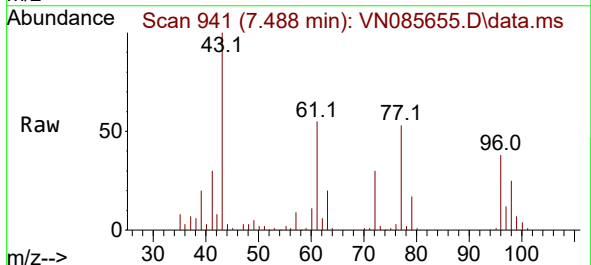
Tgt Ion: 43 Resp: 189350
Ion Ratio Lower Upper
43 100
72 28.3 20.2 30.4

Manual Integrations
APPROVED

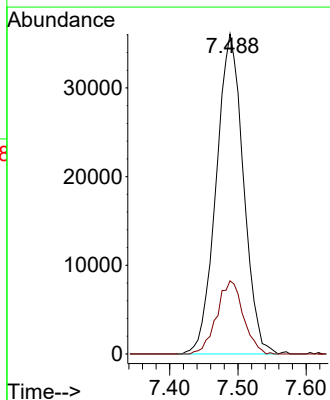
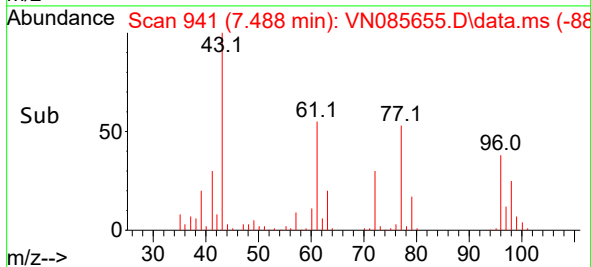
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

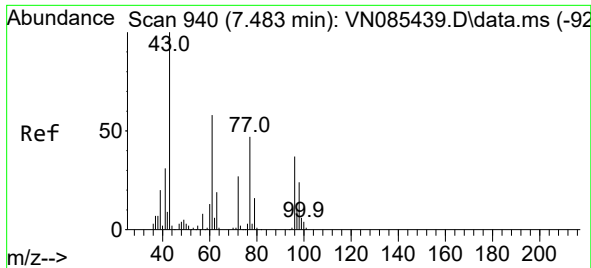


#26
2,2-Dichloropropane
Concen: 20.981 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



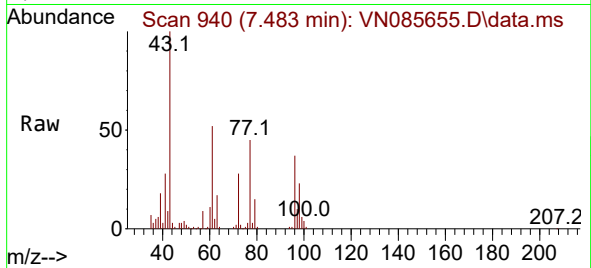
Tgt Ion: 77 Resp: 100142
Ion Ratio Lower Upper
77 100
97 22.2 10.7 32.1





#27
 cis-1,2-Dichloroethene
 Concen: 20.772 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

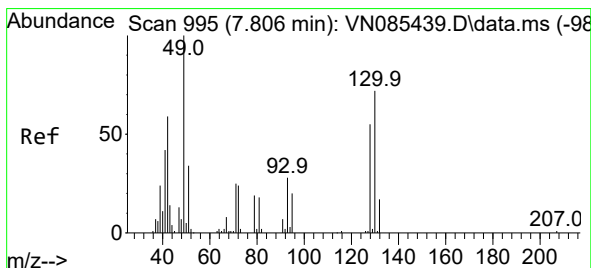
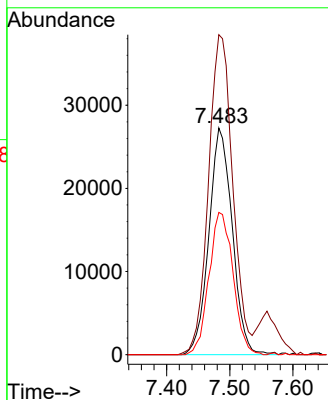
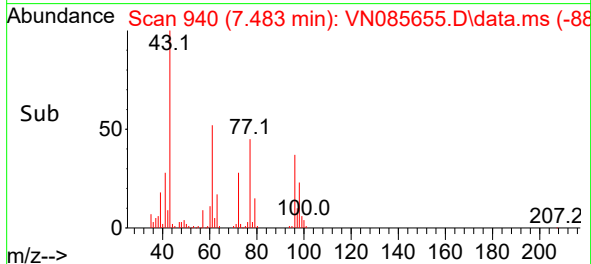
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02



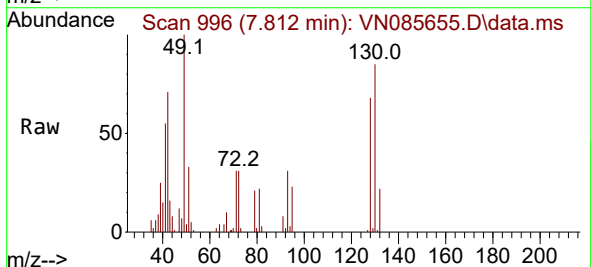
Tgt Ion: 96 Resp: 70280
 Ion Ratio Lower Upper
 96 100
 61 146.4 0.0 311.8
 98 64.4 0.0 126.0

Manual Integrations
 APPROVED

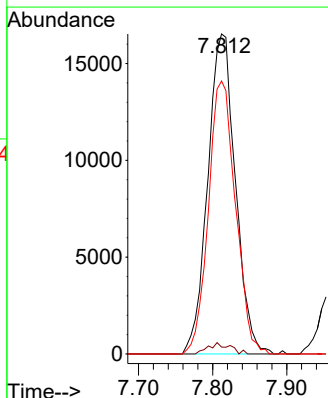
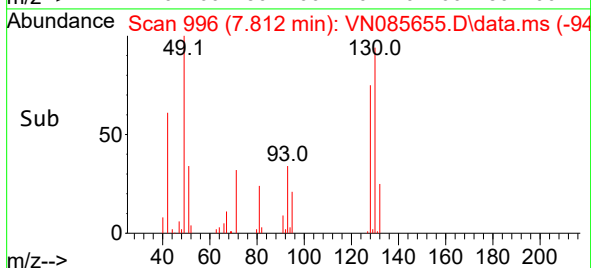
Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

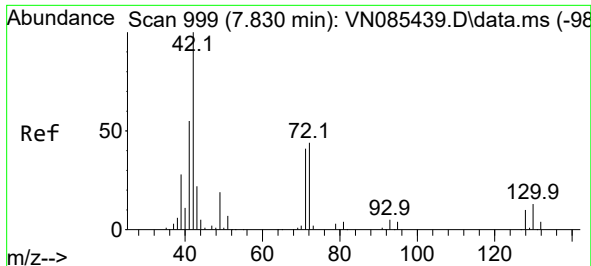


#28
 Bromochloromethane
 Concen: 15.618 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37



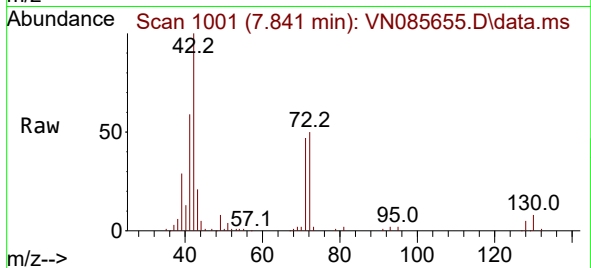
Tgt Ion: 49 Resp: 42897
 Ion Ratio Lower Upper
 49 100
 129 2.8 0.0 4.4
 130 83.5 55.0 82.4#





#29
Tetrahydrofuran
Concen: 101.037 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

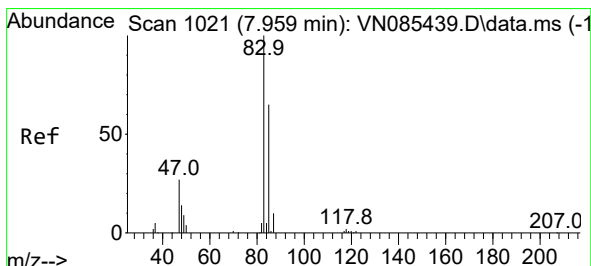
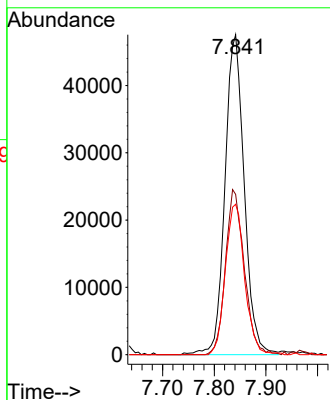
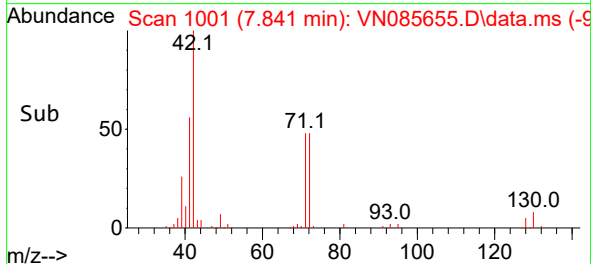
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



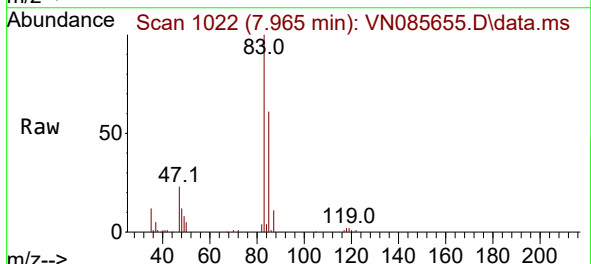
Tgt Ion: 42 Resp: 123148
Ion Ratio Lower Upper
42 100
72 50.3 34.2 51.2
71 47.2 32.5 48.7

Manual Integrations
APPROVED

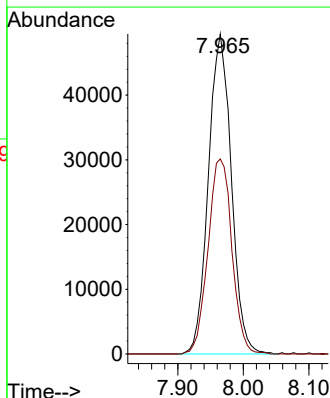
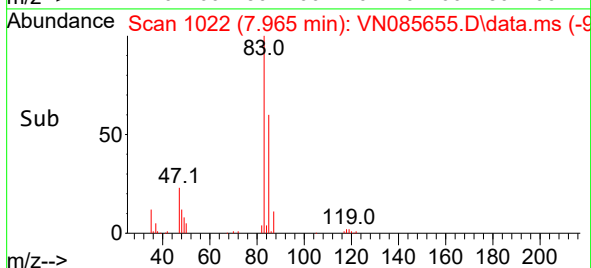
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

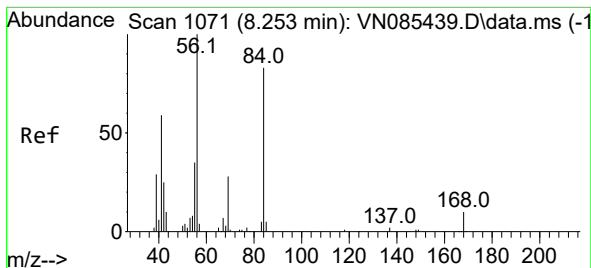


#30
Chloroform
Concen: 19.678 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 83 Resp: 120068
Ion Ratio Lower Upper
83 100
85 61.0 51.8 77.6





#31

Cyclohexane

Concen: 18.077 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

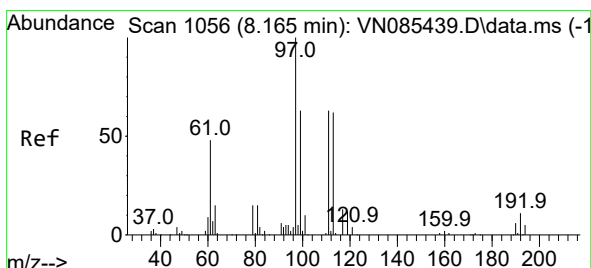
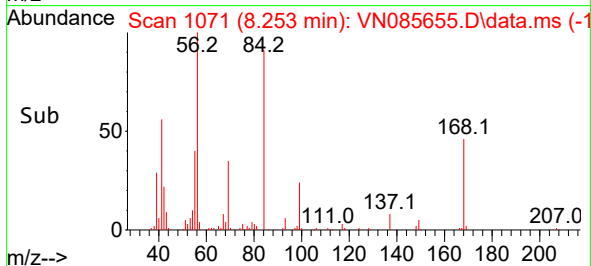
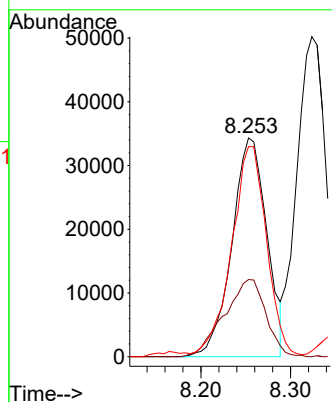
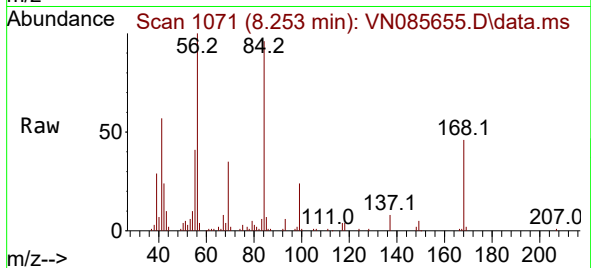
Tgt Ion:	56	Resp:	92750
Ion Ratio	Lower	Upper	
56	100		
69	35.3	22.2	33.4
84	94.6	66.4	99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#32

1,1,1-Trichloroethane

Concen: 20.090 ug/l

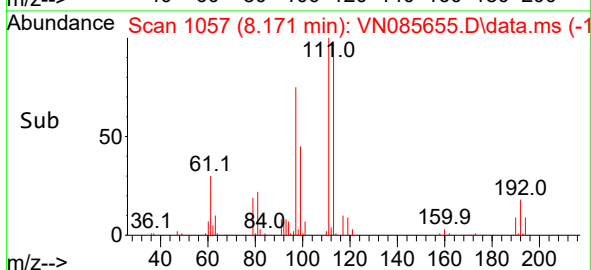
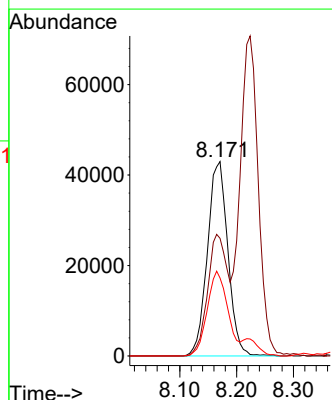
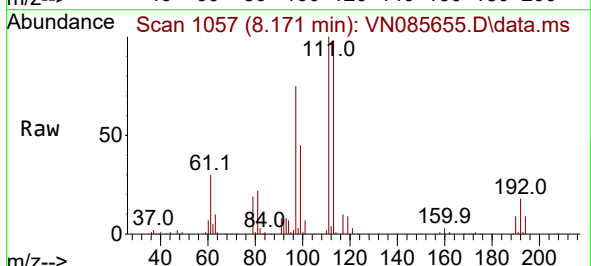
RT: 8.171 min Scan# 1057

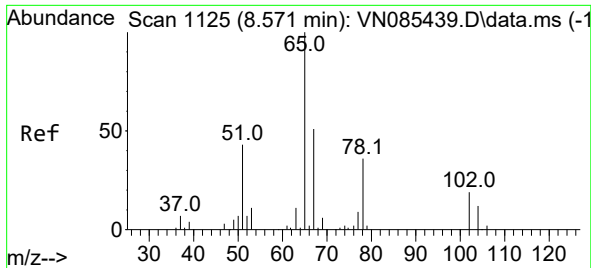
Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

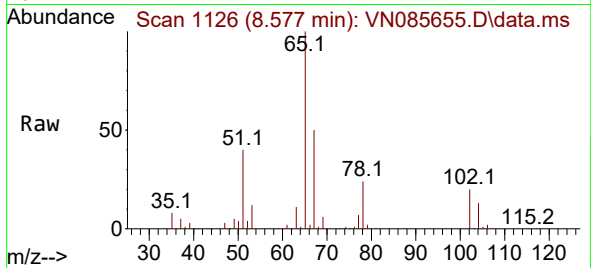
Tgt Ion:	97	Resp:	107522
Ion Ratio	Lower	Upper	
97	100		
99	60.2	49.8	74.6
61	44.0	41.4	62.2





#33
1,2-Dichloroethane-d4
Concen: 42.743 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

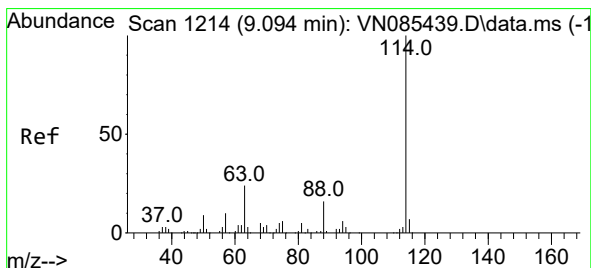
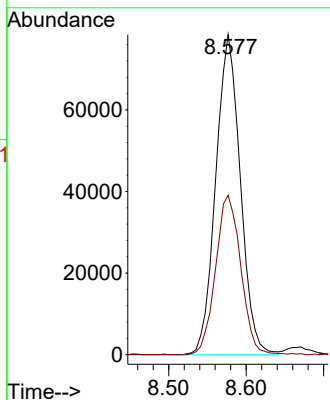
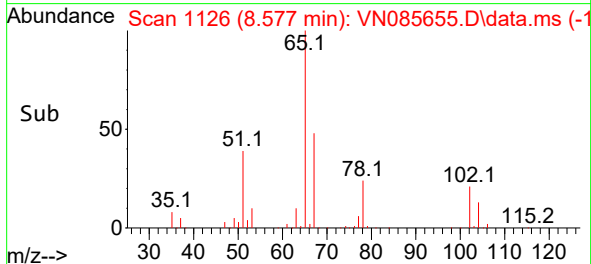
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



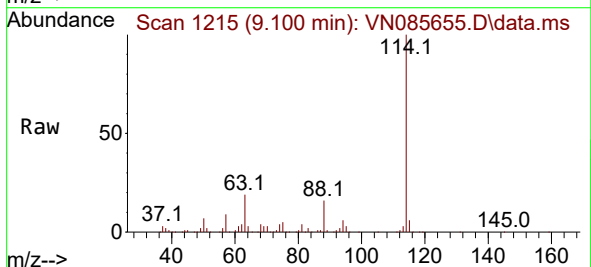
Tgt Ion: 65 Resp: 172810
Ion Ratio Lower Upper
65 100
67 51.1 0.0 101.6

Manual Integrations
APPROVED

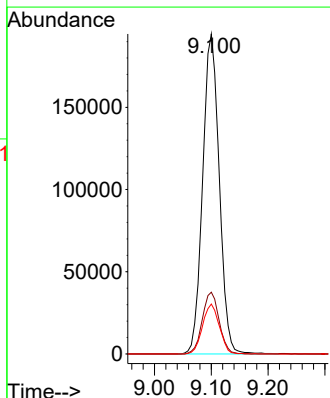
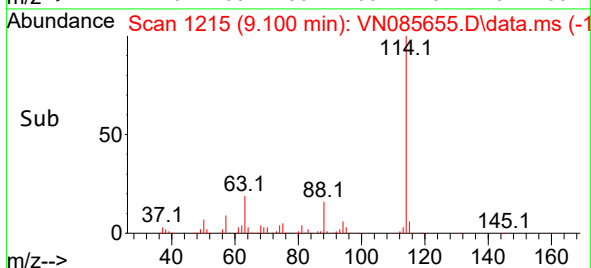
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

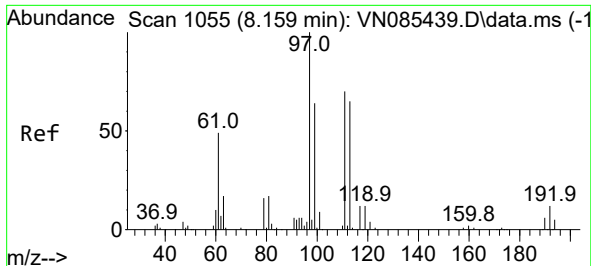


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



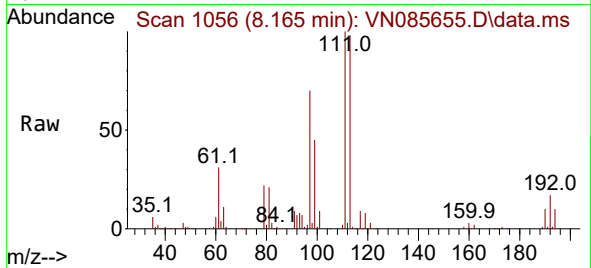
Tgt Ion:114 Resp: 394206
Ion Ratio Lower Upper
114 100
63 19.3 0.0 47.6
88 15.6 0.0 32.6





#35
Dibromofluoromethane
Concen: 52.207 ug/l
RT: 8.165 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

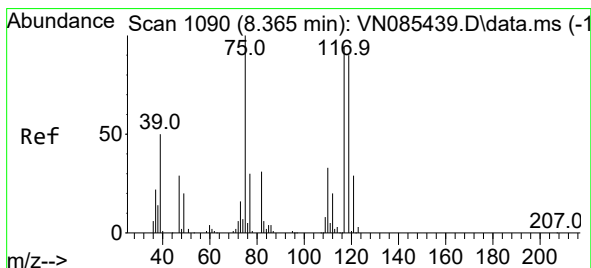
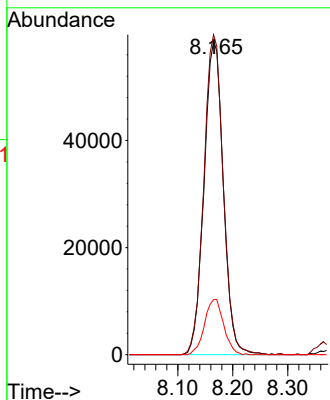
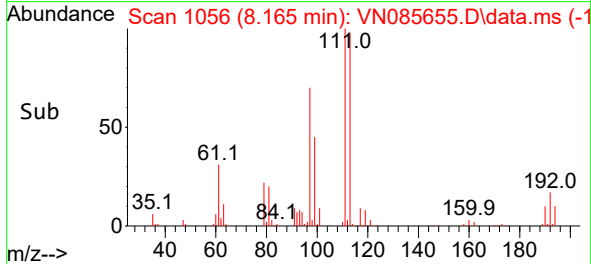
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



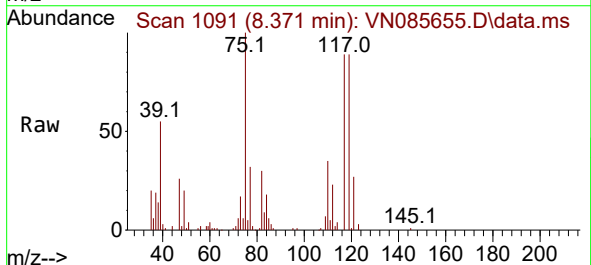
Tgt Ion: 113 Resp: 14277
Ion Ratio Lower Upper
113 100
111 102.4 82.7 124.1
192 17.5 14.3 21.5

Manual Integrations
APPROVED

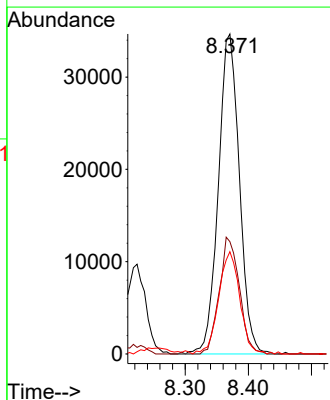
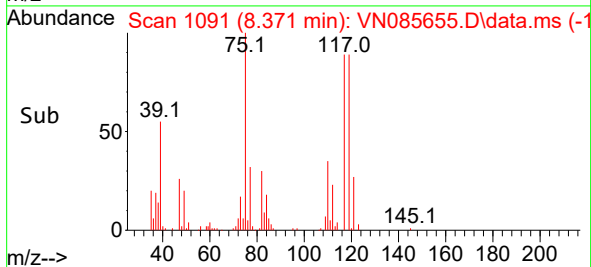
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

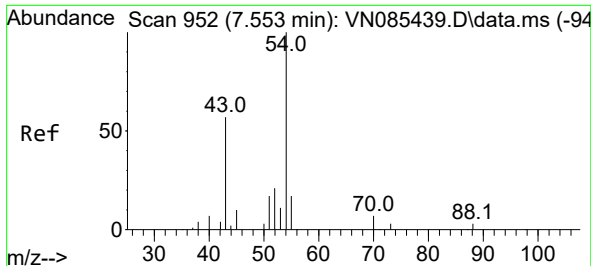


#36
1,1-Dichloropropene
Concen: 20.905 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 75 Resp: 80237
Ion Ratio Lower Upper
75 100
110 34.8 16.5 49.5
77 32.1 24.4 36.6





#37

Ethyl Acetate

Concen: 19.538 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

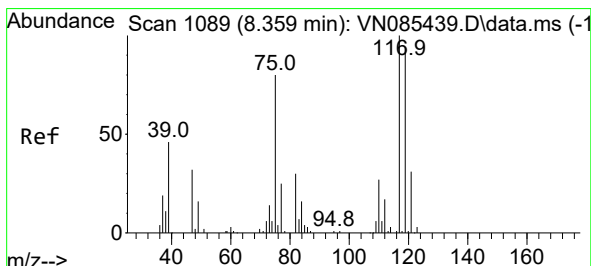
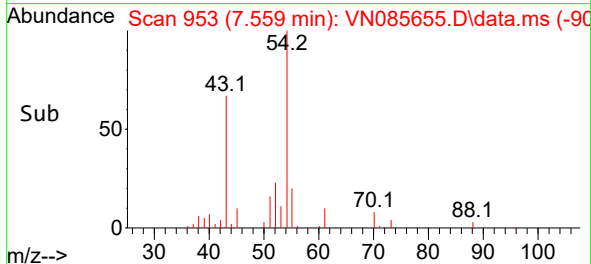
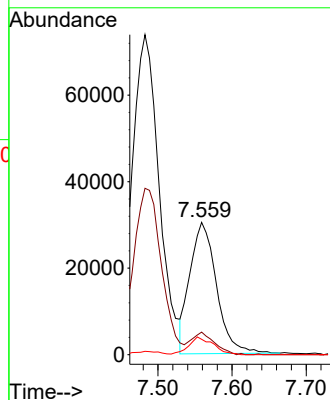
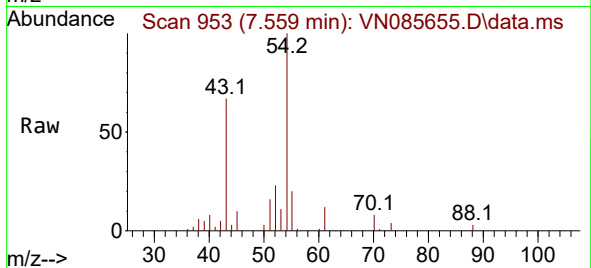
ClientSampleId :

VN0204WBSD02

Tgt Ion:	43	Resp:	7569
Ion Ratio	Lower	Upper	
43	100		
61	14.9	10.9	16.3
70	12.4	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#38

Carbon Tetrachloride

Concen: 21.250 ug/l

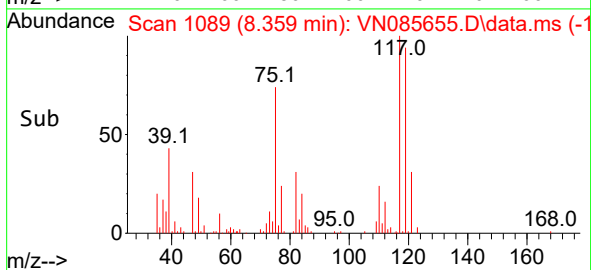
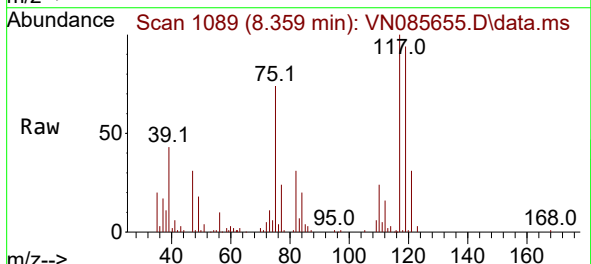
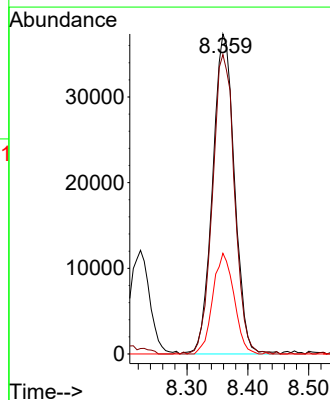
RT: 8.359 min Scan# 1089

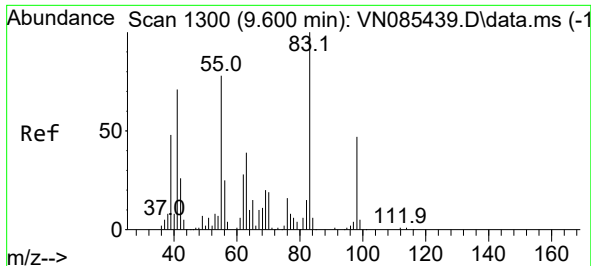
Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Tgt Ion:	117	Resp:	93378
Ion Ratio	Lower	Upper	
117	100		
119	93.6	75.4	113.2
121	31.4	24.6	37.0





#39

Methylcyclohexane

Concen: 20.720 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

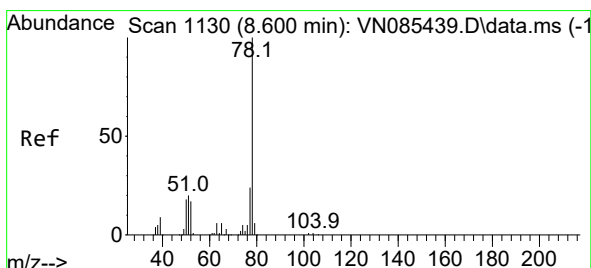
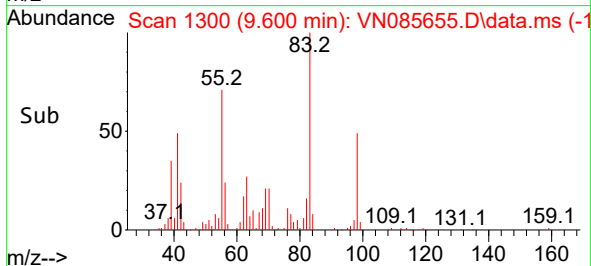
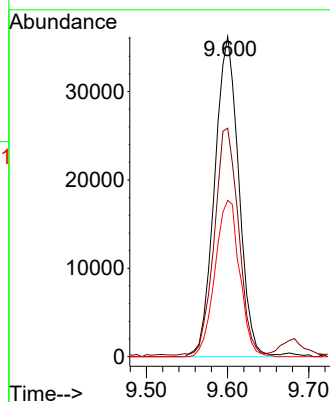
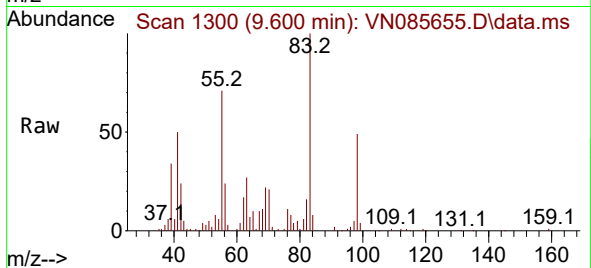
Tgt Ion:	83	Resp:	7473
Ion Ratio	Lower	Upper	
83	100		
55	70.8	62.6	94.0
98	48.8	37.7	56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#40

Benzene

Concen: 22.223 ug/l

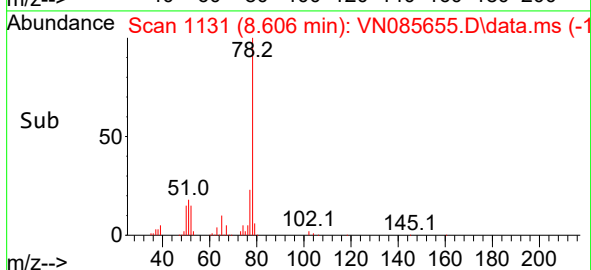
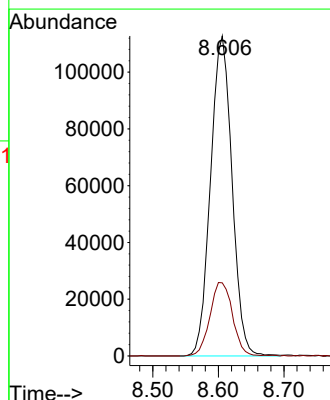
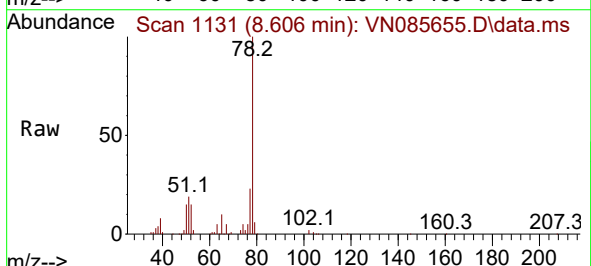
RT: 8.606 min Scan# 1131

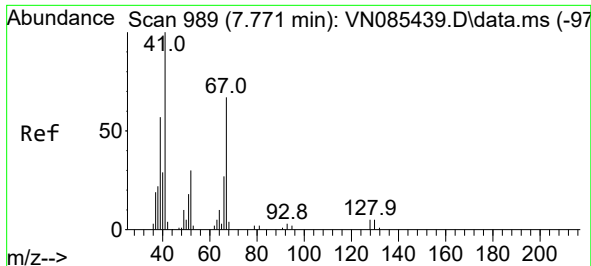
Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

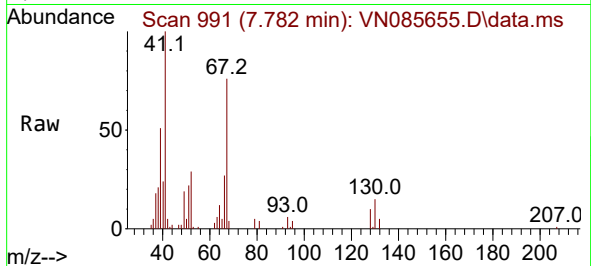
Tgt Ion:	78	Resp:	256293
Ion Ratio	Lower	Upper	
78	100		
77	22.9	19.0	28.6





#41
Methacrylonitrile
Concen: 21.201 ug/l
RT: 7.782 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

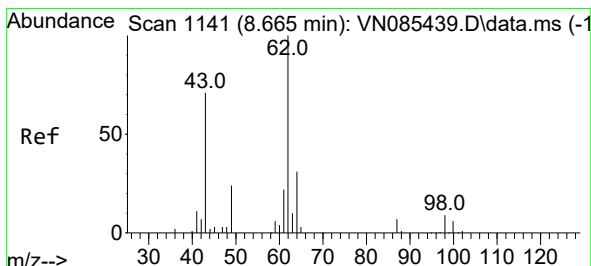
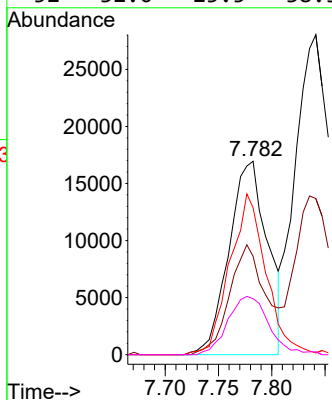
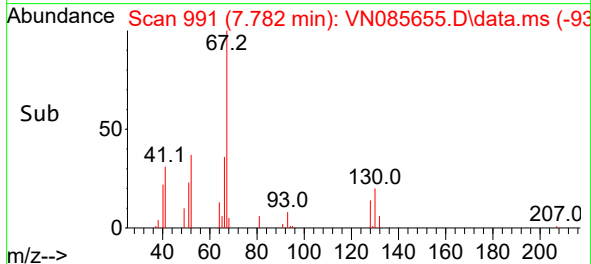
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion:	41	Resp:	4273
Ion Ratio	100	Lower	Upper
41	100		
39	53.0	46.0	69.0
67	78.0	57.4	86.2
52	32.0	25.5	38.3

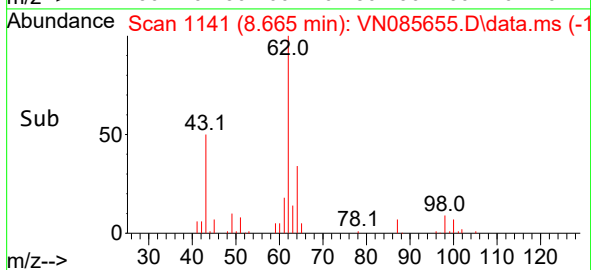
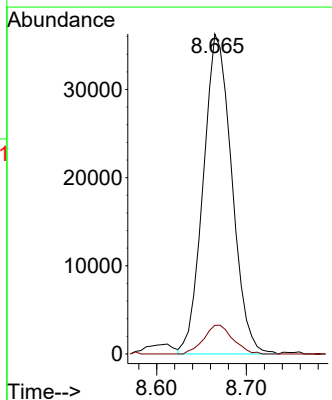
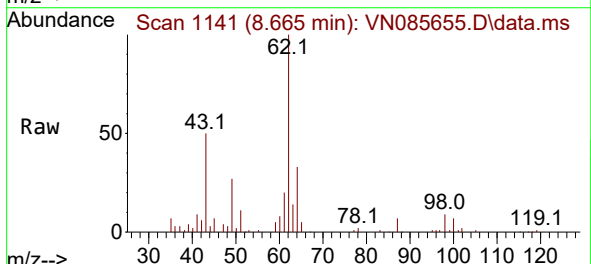
Manual Integrations
APPROVED

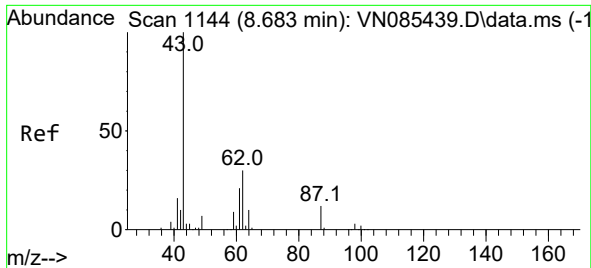
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#42
1,2-Dichloroethane
Concen: 18.444 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

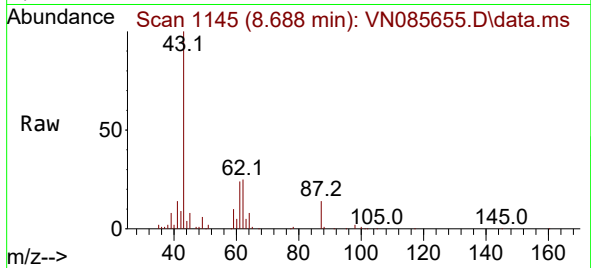
Tgt Ion:	62	Resp:	80112
Ion Ratio	100	Lower	Upper
62	100		
98	9.2	0.0	17.0





#43
Isopropyl Acetate
Concen: 20.920 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

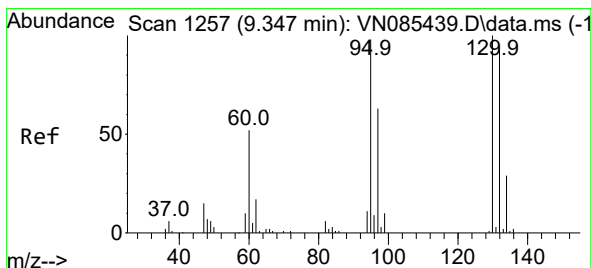
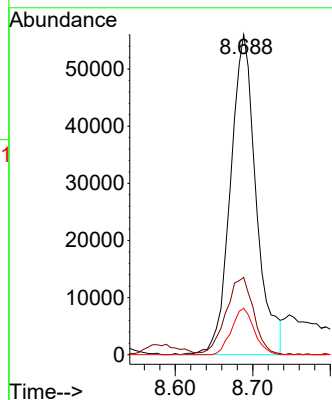
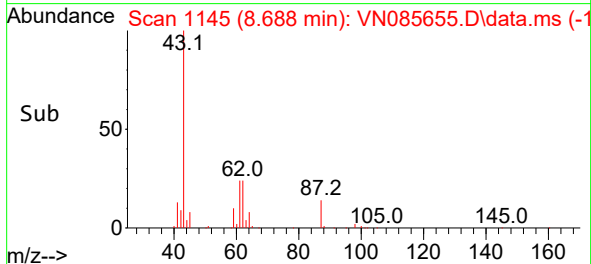
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion: 43 Resp: 12986
Ion Ratio Lower Upper
43 100
61 25.9 20.7 31.1
87 12.7 9.8 14.8

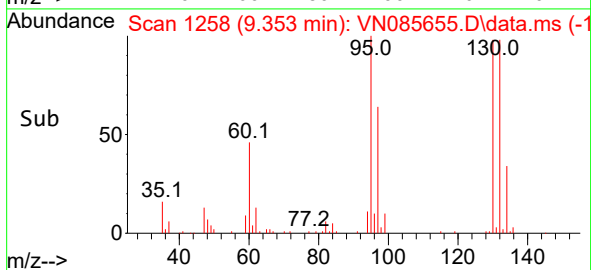
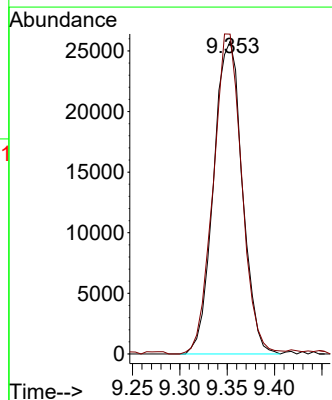
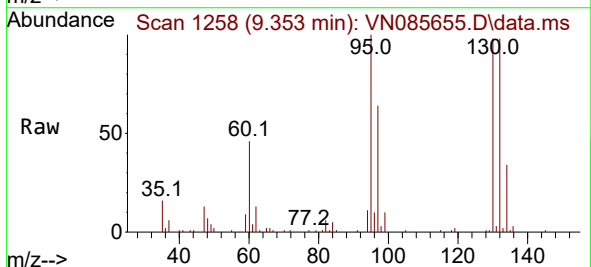
Manual Integrations
APPROVED

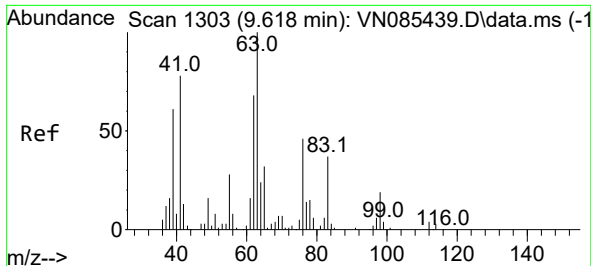
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#44
Trichloroethene
Concen: 20.291 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

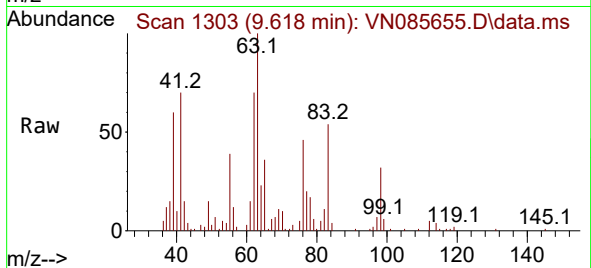
Tgt Ion:130 Resp: 54471
Ion Ratio Lower Upper
130 100
95 102.3 0.0 195.8





#45
1,2-Dichloropropane
Concen: 18.507 ug/l
RT: 9.618 min Scan# 1303
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

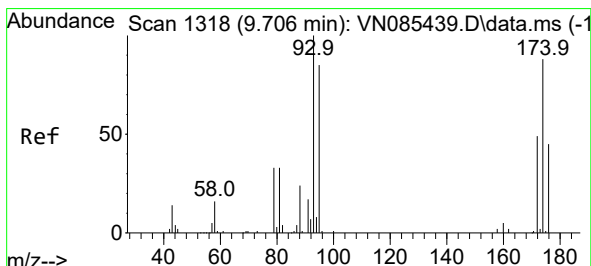
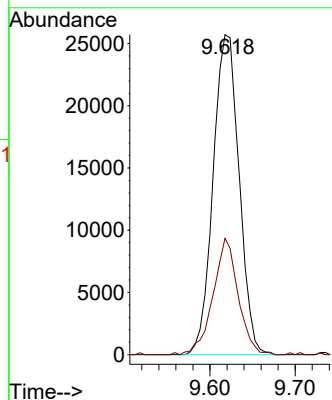
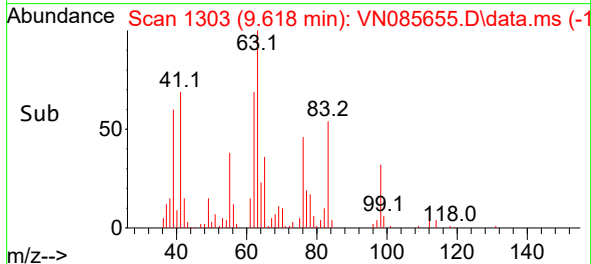
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



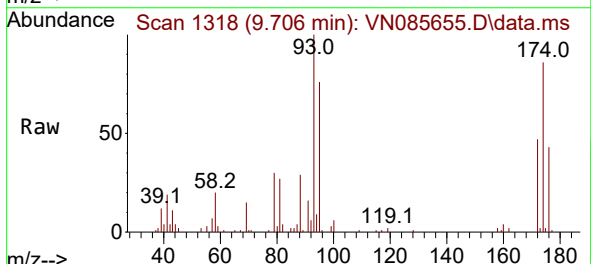
Tgt Ion: 63 Resp: 54518
Ion Ratio Lower Upper
63 100
65 36.3 25.6 38.4

Manual Integrations
APPROVED

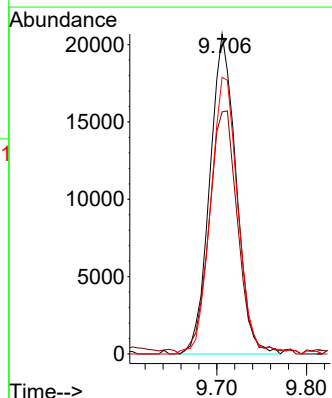
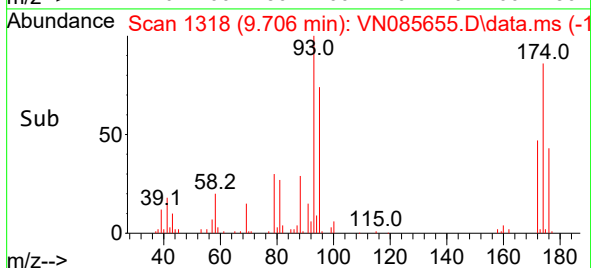
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

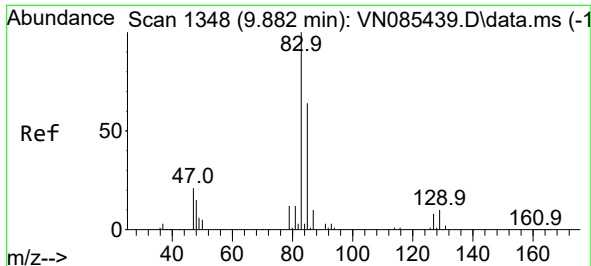


#46
Dibromomethane
Concen: 19.810 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 93 Resp: 42107
Ion Ratio Lower Upper
93 100
95 82.9 64.7 97.1
174 90.2 69.0 103.4





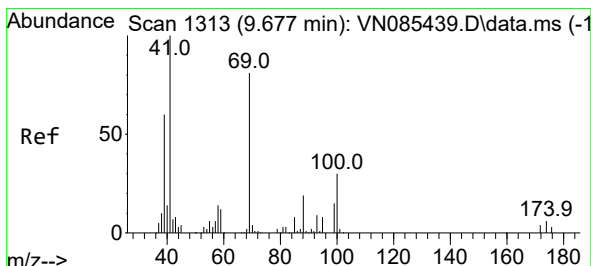
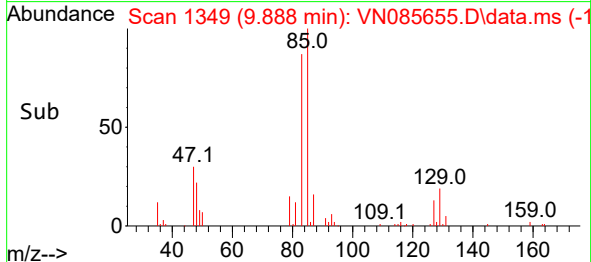
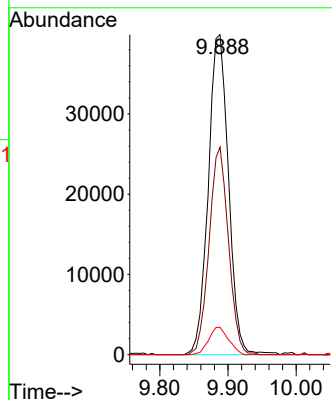
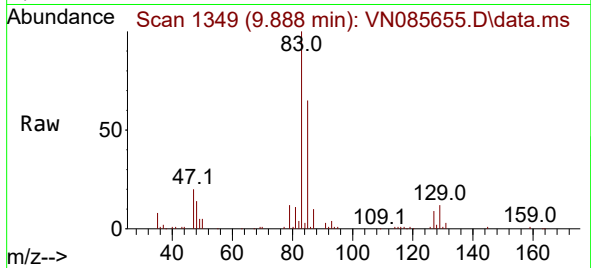
#47
Bromodichloromethane
Concen: 19.003 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion: 83 Resp: 8229
Ion Ratio Lower Upper
83 100
85 64.8 51.2 76.8
127 8.5 6.5 9.7

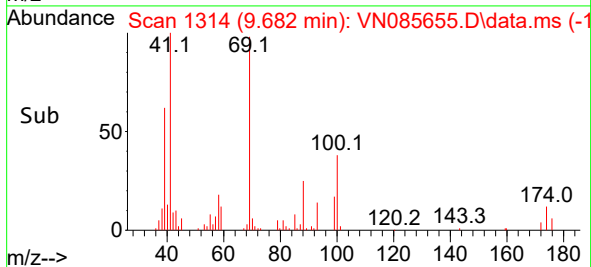
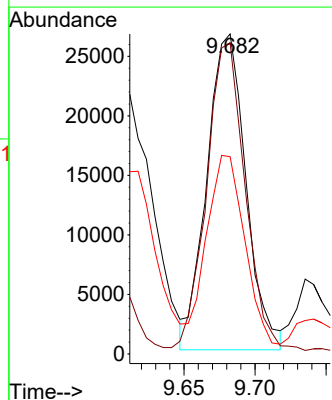
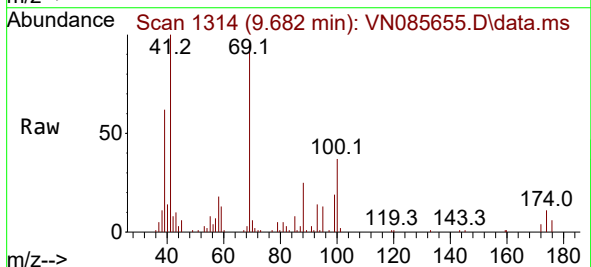
Manual Integrations
APPROVED

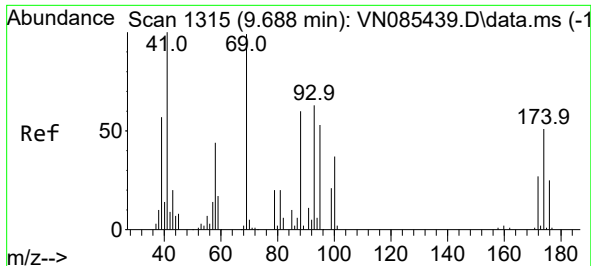
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#48
Methyl methacrylate
Concen: 18.201 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.005 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

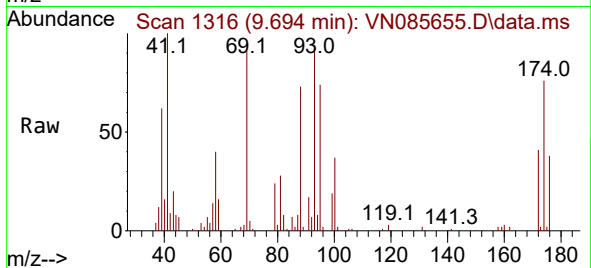
Tgt Ion: 41 Resp: 50846
Ion Ratio Lower Upper
41 100
69 101.0 64.7 97.1#
39 63.3 49.0 73.6





#49
1,4-Dioxane
Concen: 421.835 ug/l
RT: 9.694 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

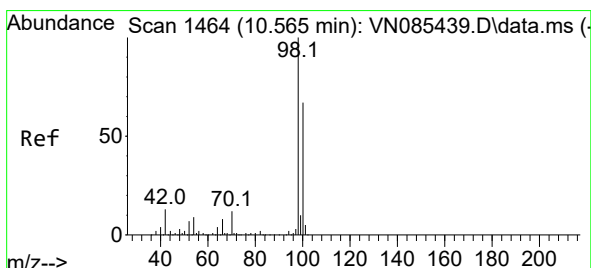
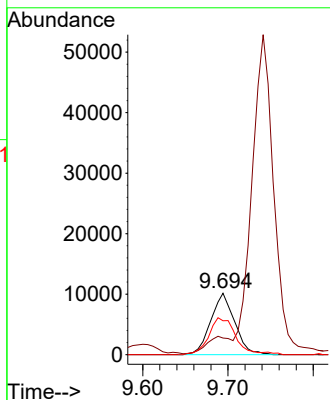
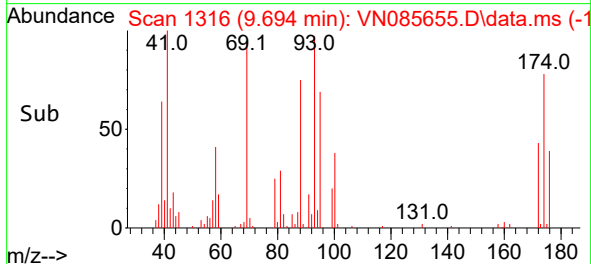
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion: 88 Resp: 1984
Ion Ratio Lower Upper
88 100
43 29.0 26.6 39.8
58 67.9 59.5 89.3

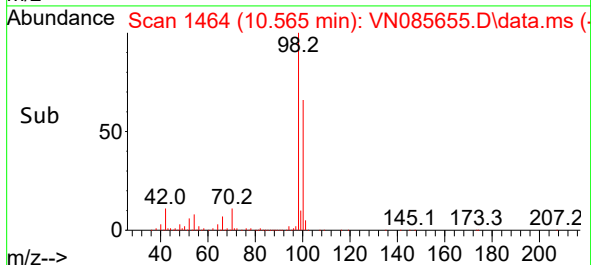
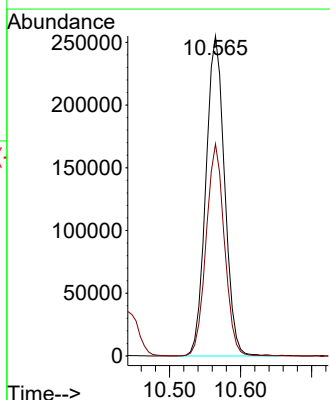
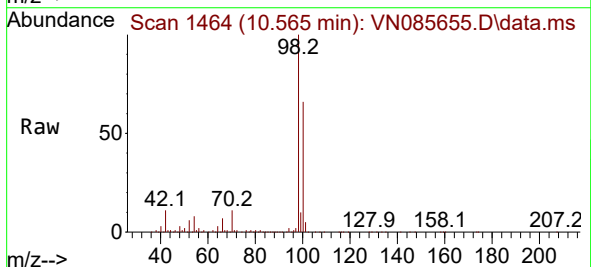
Manual Integrations
APPROVED

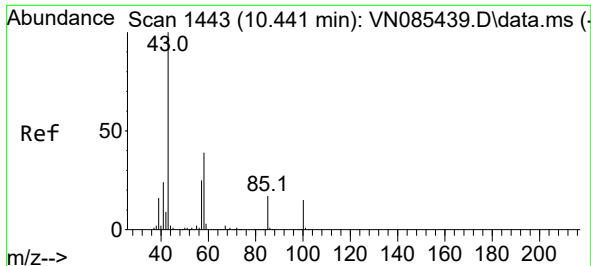
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#50
Toluene-d8
Concen: 48.017 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

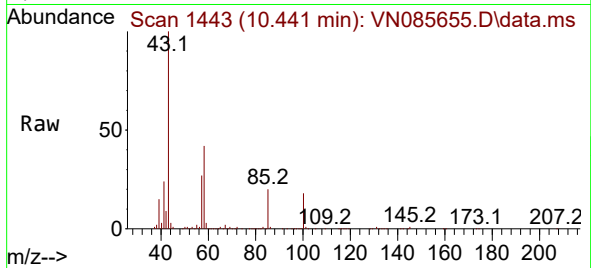
Tgt Ion: 98 Resp: 466570
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.4





#51
4-Methyl-2-Pentanone
Concen: 96.926 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

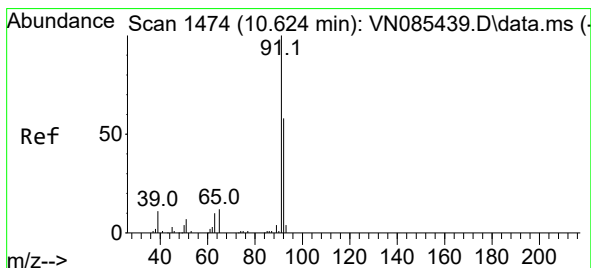
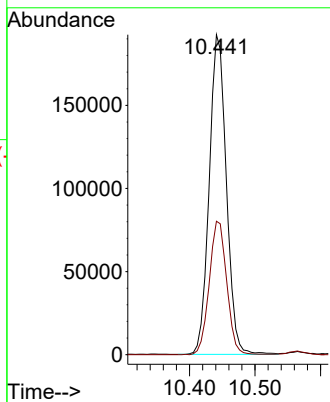
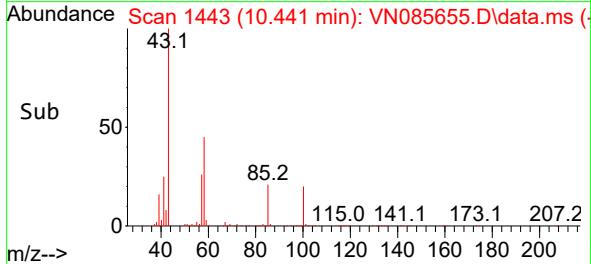
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion: 43 Resp: 349150
Ion Ratio Lower Upper
43 100
58 42.6 30.5 45.7

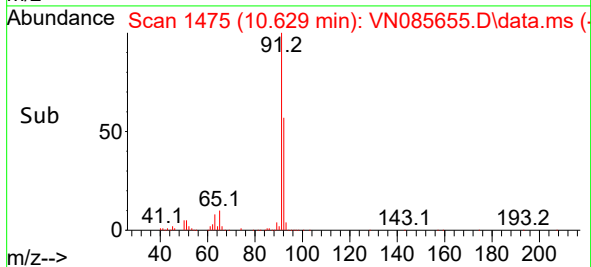
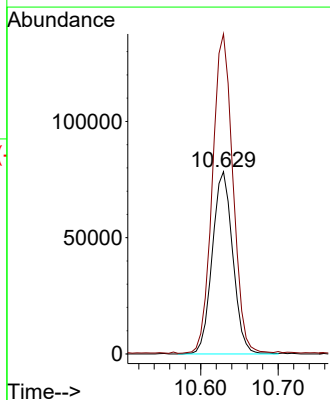
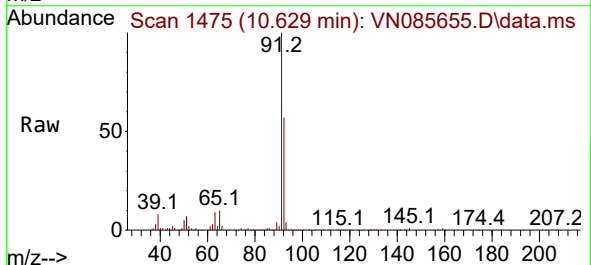
Manual Integrations
APPROVED

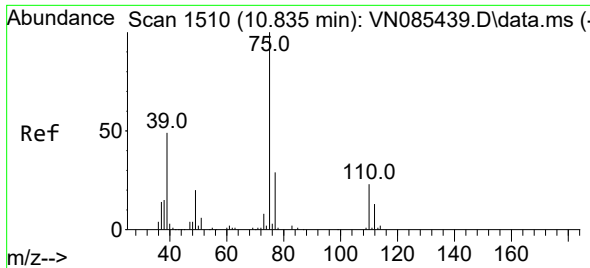
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#52
Toluene
Concen: 21.533 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

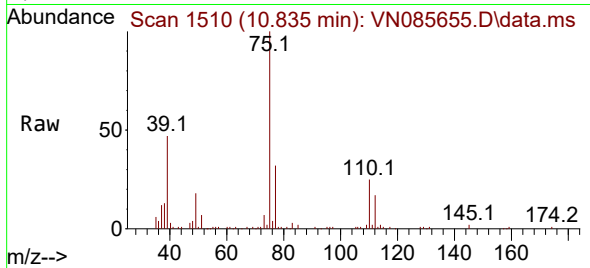
Tgt Ion: 92 Resp: 143888
Ion Ratio Lower Upper
92 100
91 175.3 139.2 208.8





#53
 t-1,3-Dichloropropene
 Concen: 20.270 ug/l
 RT: 10.835 min Scan# 1510
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

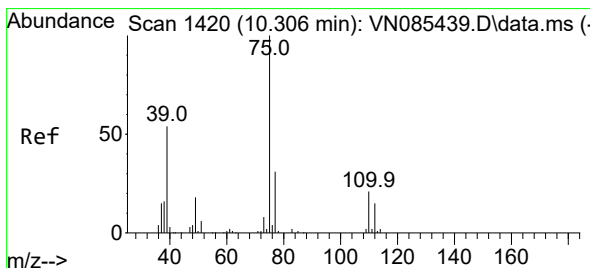
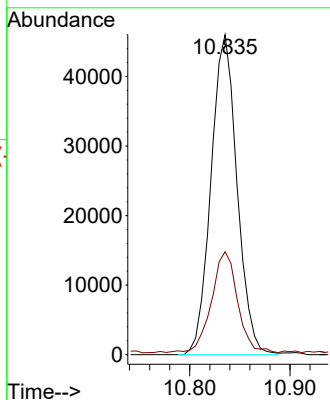
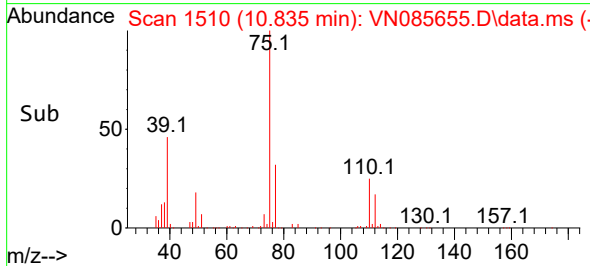
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02



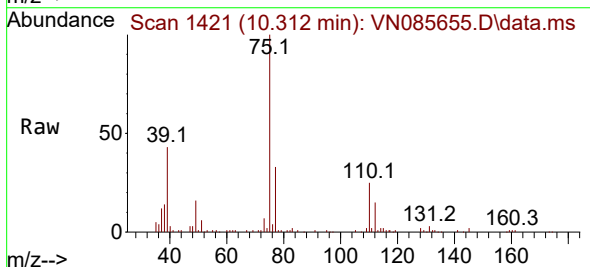
Tgt Ion: 75 Resp: 8295
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.5 35.3

Manual Integrations
 APPROVED

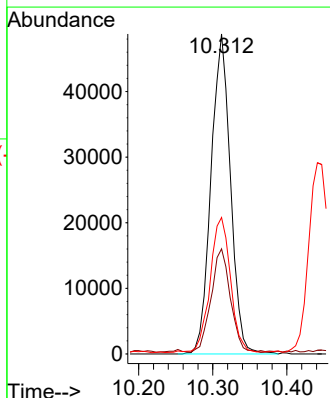
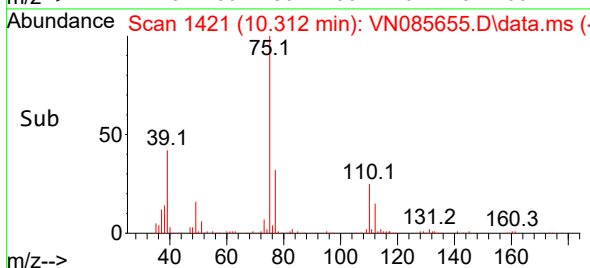
Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025

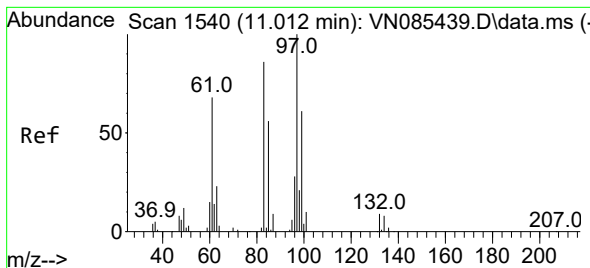


#54
 cis-1,3-Dichloropropene
 Concen: 20.329 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37



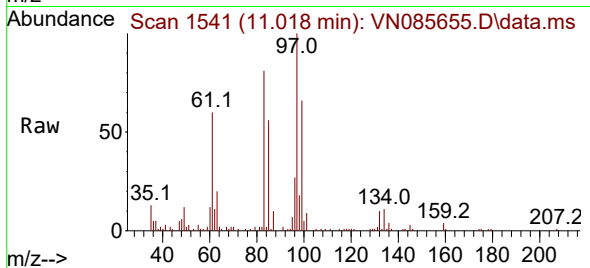
Tgt Ion: 75 Resp: 88864
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.0 37.4
 39 41.7 43.1 64.7#





#55
1,1,2-Trichloroethane
Concen: 21.009 ug/l
RT: 11.018 min Scan# 1540
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

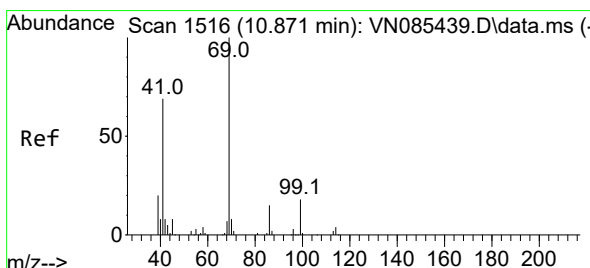
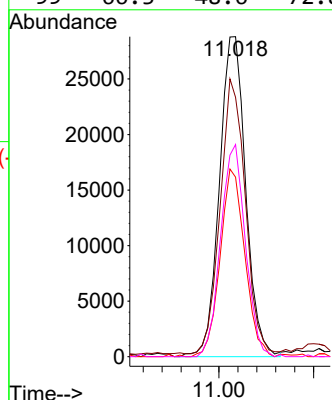
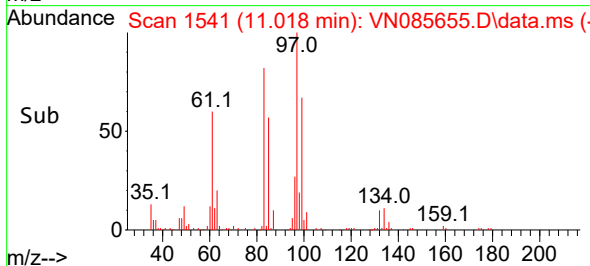
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



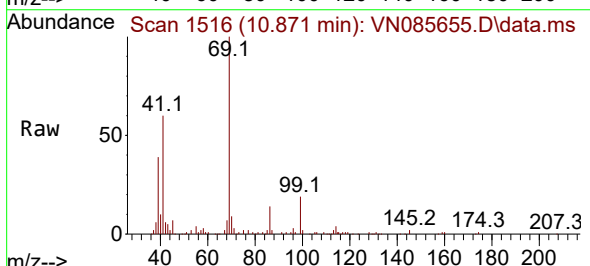
Tgt Ion: 97 Resp: 5555
Ion Ratio Lower Upper
97 100
83 79.8 69.0 103.6
85 55.6 44.6 66.8
99 66.3 48.6 72.8

Manual Integrations
APPROVED

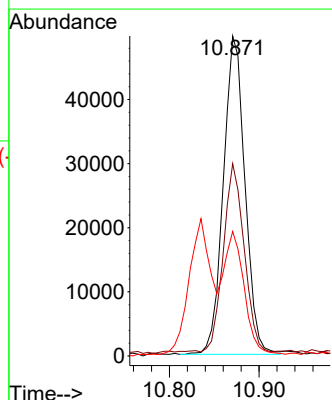
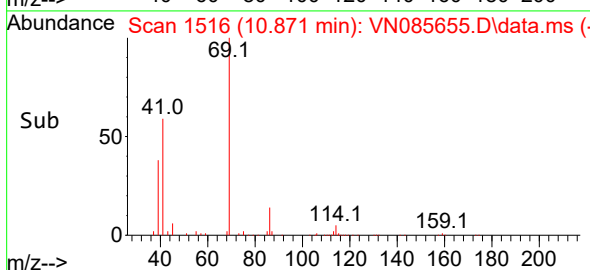
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

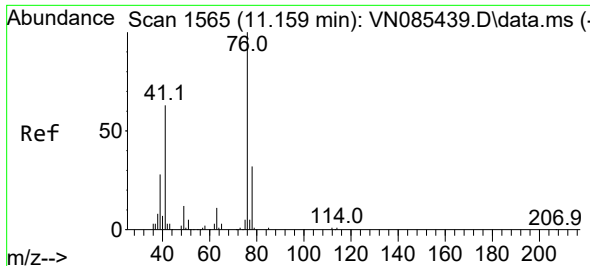


#56
Ethyl methacrylate
Concen: 19.891 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



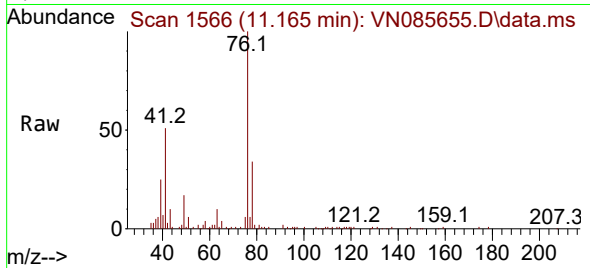
Tgt Ion: 69 Resp: 83221
Ion Ratio Lower Upper
69 100
41 56.3 54.6 82.0
39 36.8 32.4 48.6





#57
1,3-Dichloropropane
Concen: 20.265 ug/l
RT: 11.165 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

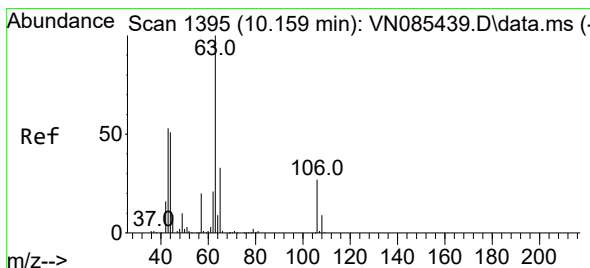
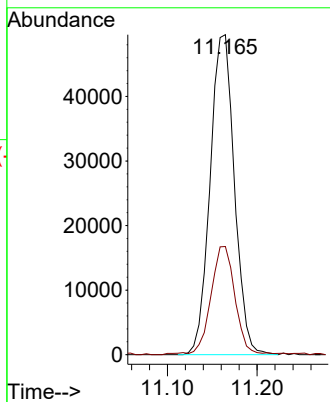
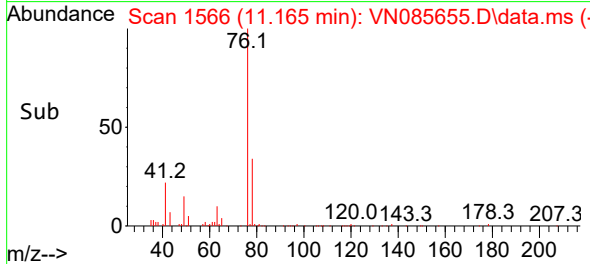
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



Tgt Ion: 76 Resp: 9318
Ion Ratio Lower Upper
76 100
78 33.9 25.6 38.4

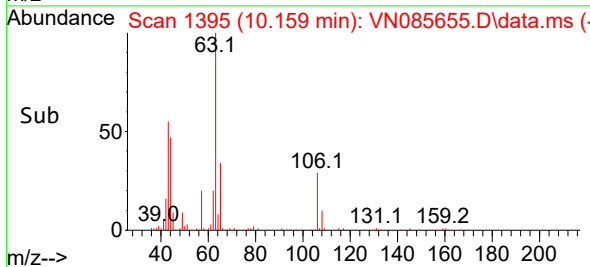
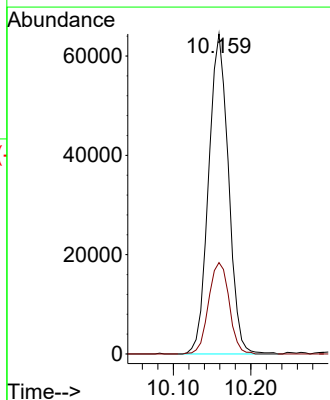
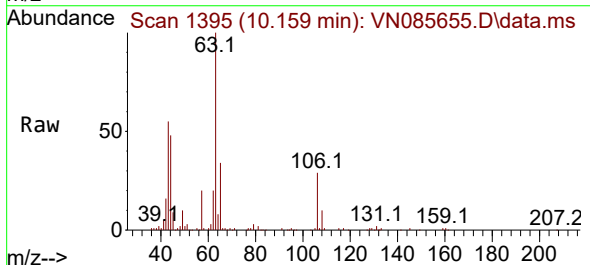
Manual Integrations
APPROVED

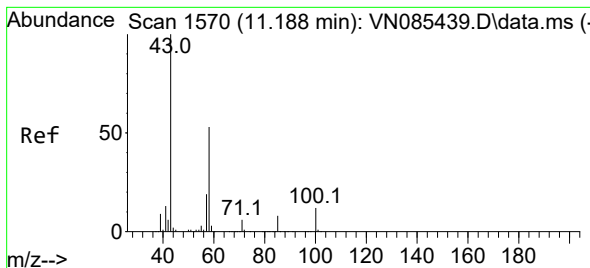
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#58
2-Chloroethyl Vinyl ether
Concen: 68.367 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

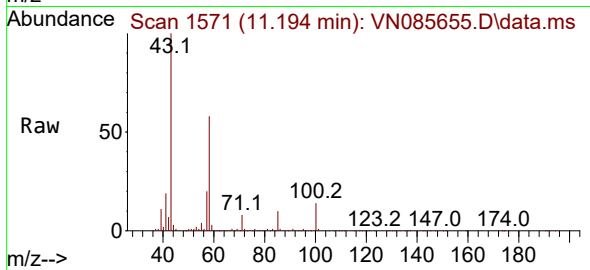
Tgt Ion: 63 Resp: 114733
Ion Ratio Lower Upper
63 100
106 29.5 21.6 32.4





#59
2-Hexanone
Concen: 101.116 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

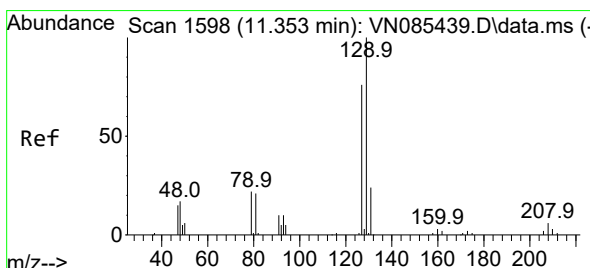
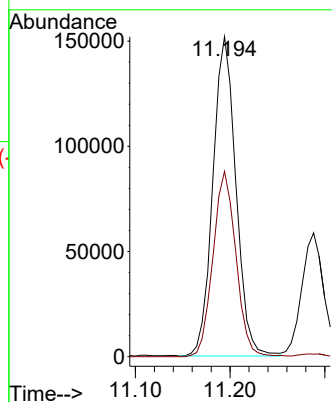
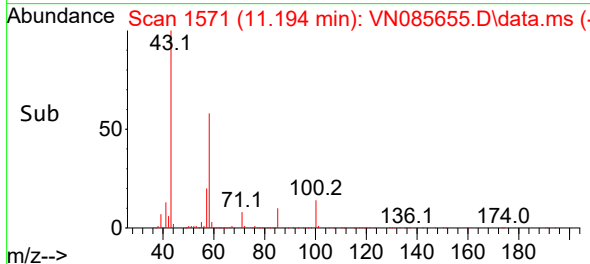
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



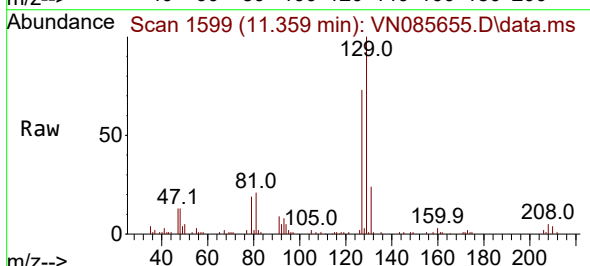
Tgt Ion: 43 Resp: 256290
Ion Ratio Lower Upper
43 100
58 57.8 26.2 78.6

Manual Integrations
APPROVED

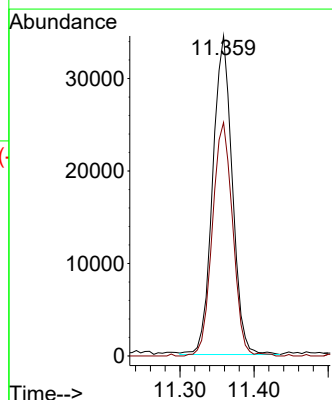
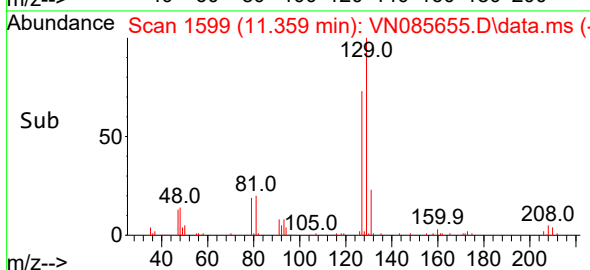
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

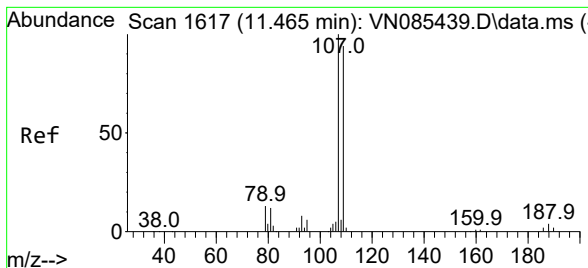


#60
Dibromochloromethane
Concen: 19.818 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



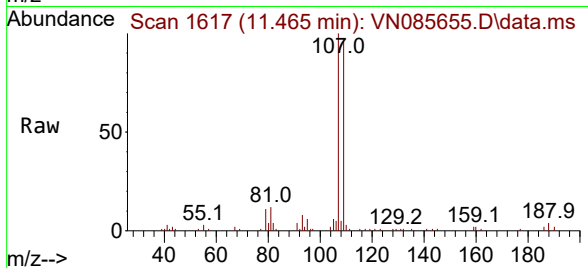
Tgt Ion:129 Resp: 63273
Ion Ratio Lower Upper
129 100
127 75.9 38.6 115.8





#61
1,2-Dibromoethane
Concen: 20.824 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

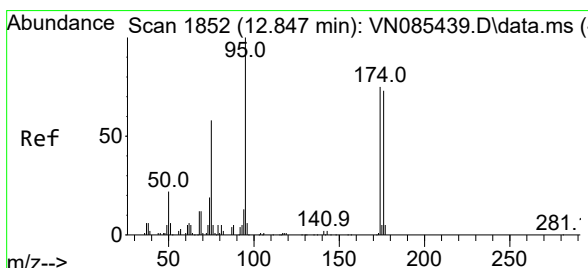
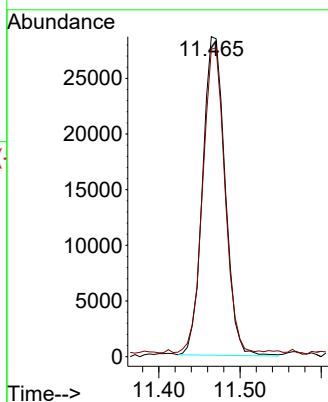
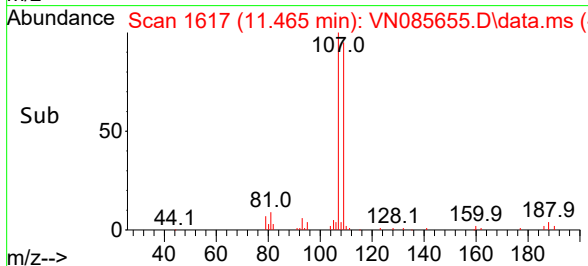
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



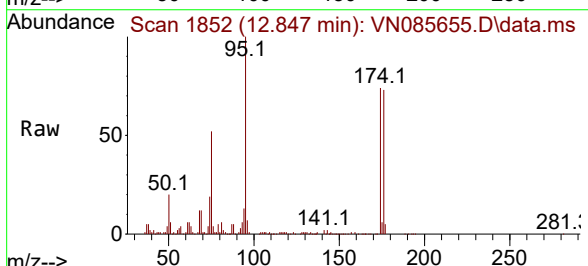
Tgt Ion:107 Resp: 5481
Ion Ratio Lower Upper
107 100
109 94.4 75.9 113.9

Manual Integrations
APPROVED

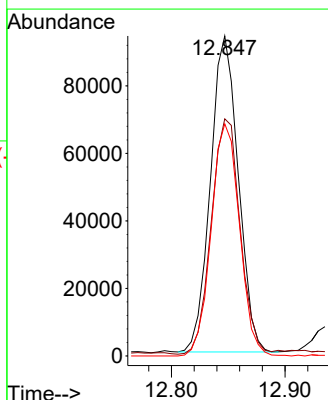
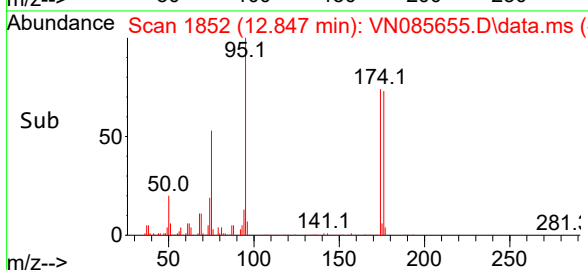
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

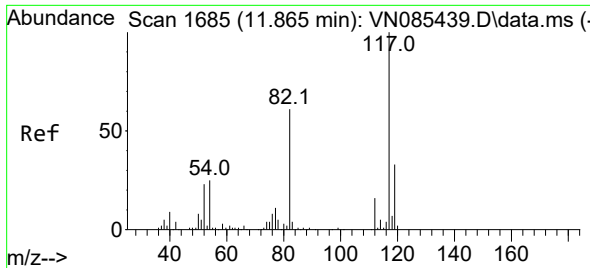


#62
4-Bromofluorobenzene
Concen: 47.936 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



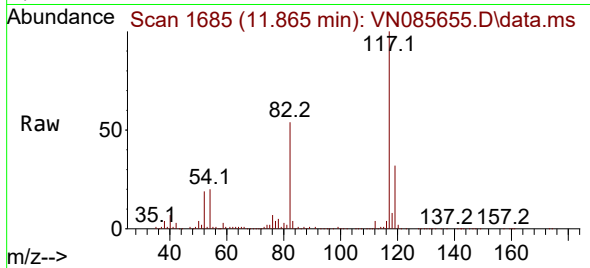
Tgt Ion: 95 Resp: 159331
Ion Ratio Lower Upper
95 100
174 77.0 0.0 145.0
176 74.7 0.0 142.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

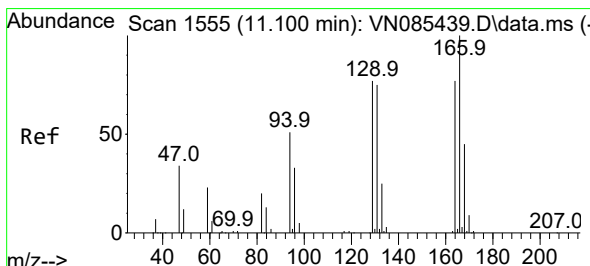
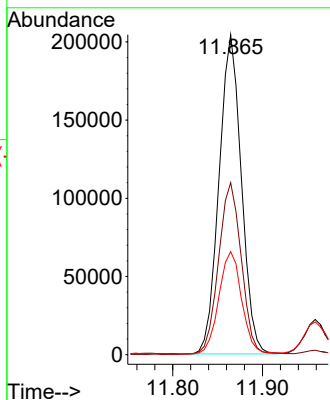
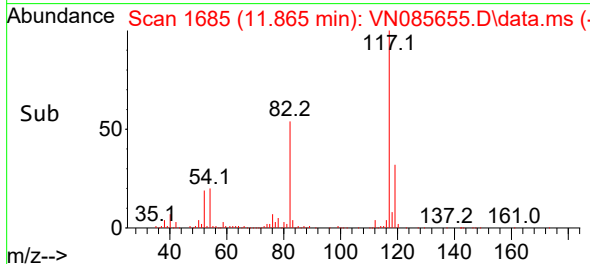
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



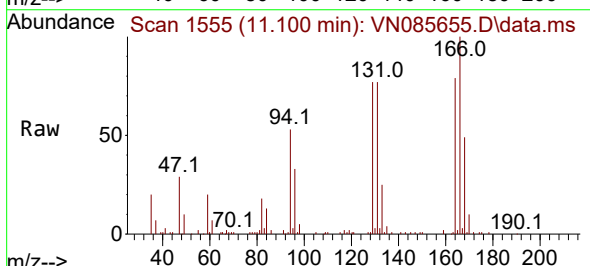
Tgt Ion:117 Resp: 352019
Ion Ratio Lower Upper
117 100
82 53.8 48.6 72.8
119 32.0 26.6 39.8

Manual Integrations
APPROVED

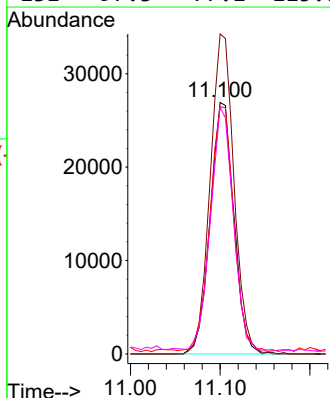
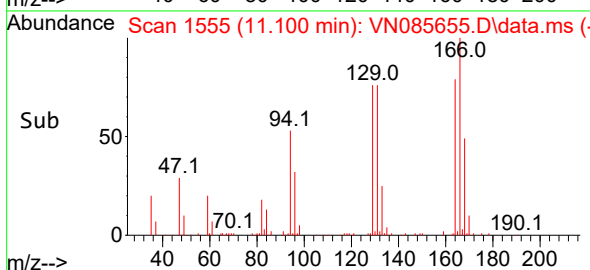
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

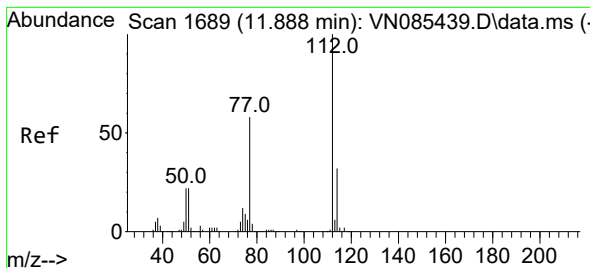


#64
Tetrachloroethene
Concen: 20.539 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion:164 Resp: 49290
Ion Ratio Lower Upper
164 100
166 127.2 103.4 155.2
129 96.9 79.2 118.8
131 97.3 77.1 115.7





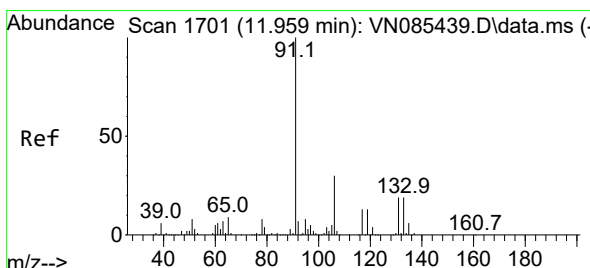
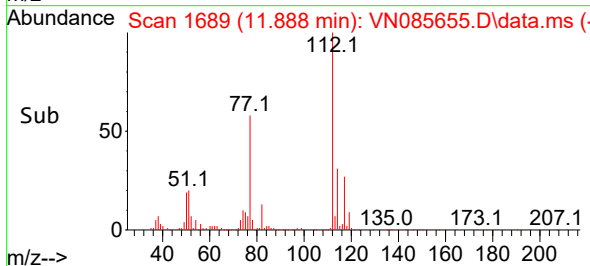
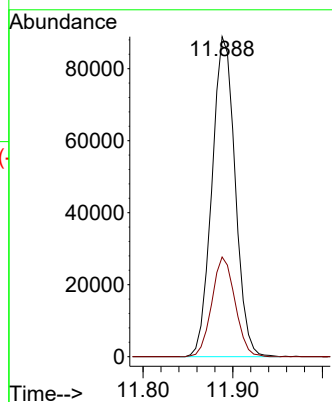
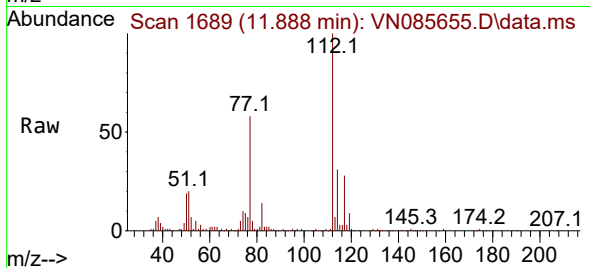
#65
Chlorobenzene
Concen: 20.660 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion:112 Resp: 15932
Ion Ratio Lower Upper
112 100
114 31.2 25.3 37.9

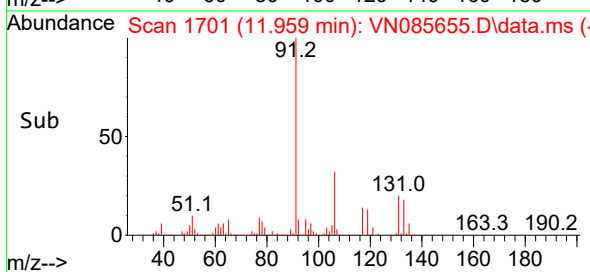
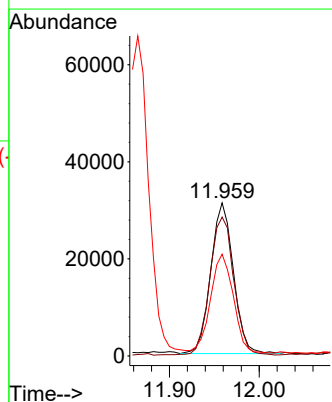
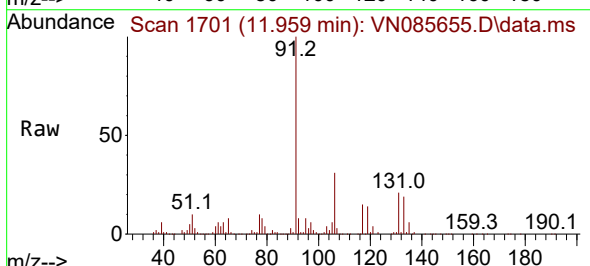
Manual Integrations
APPROVED

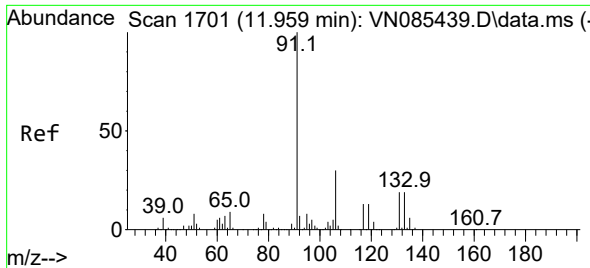
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.203 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

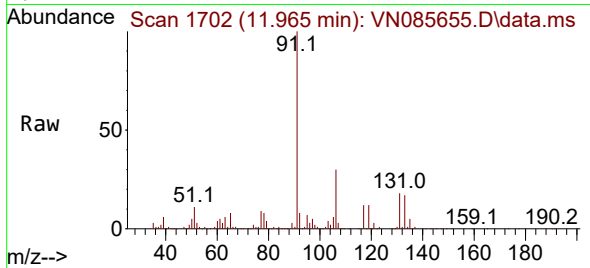
Tgt Ion:131 Resp: 54350
Ion Ratio Lower Upper
131 100
133 97.8 47.4 142.3
119 66.4 33.1 99.5





#67
Ethyl Benzene
Concen: 21.395 ug/l
RT: 11.965 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

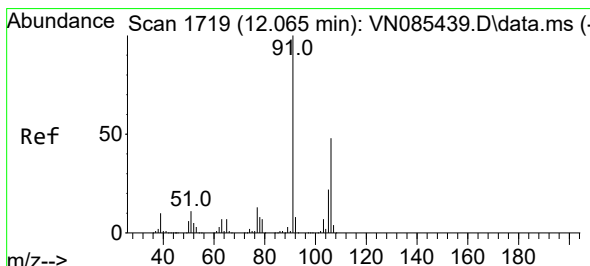
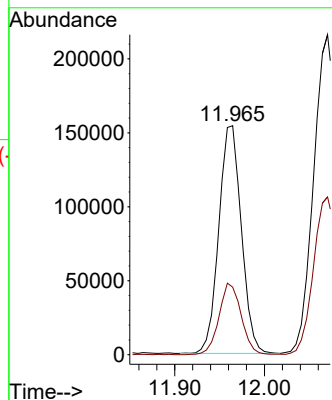
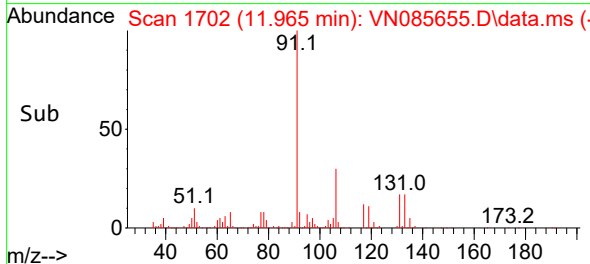
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



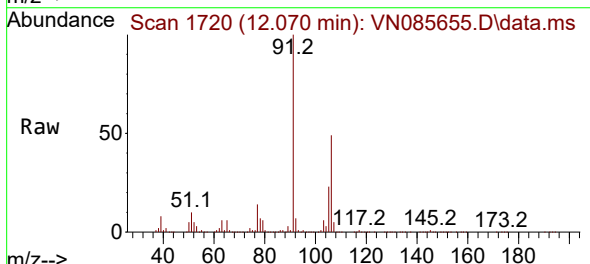
Tgt Ion: 91 Resp: 268719
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.8

Manual Integrations
APPROVED

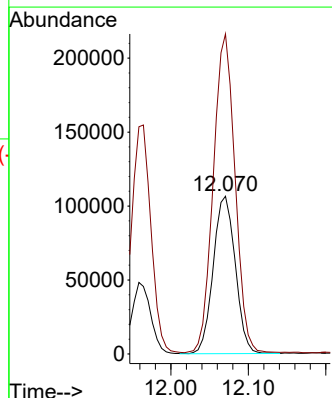
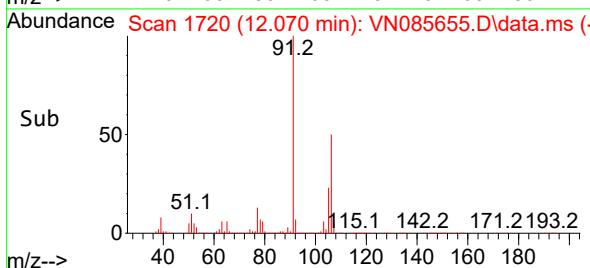
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

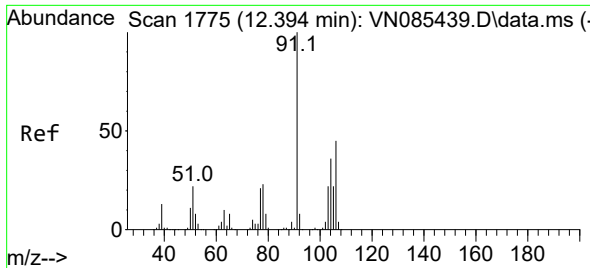


#68
m/p-Xylenes
Concen: 45.376 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



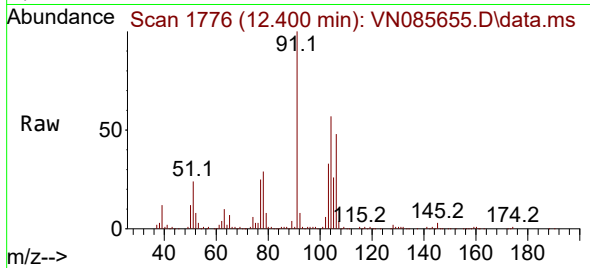
Tgt Ion:106 Resp: 210638
Ion Ratio Lower Upper
106 100
91 198.8 167.7 251.5





#69
o-Xylene
Concen: 23.027 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

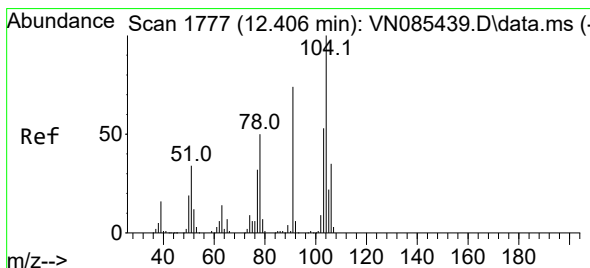
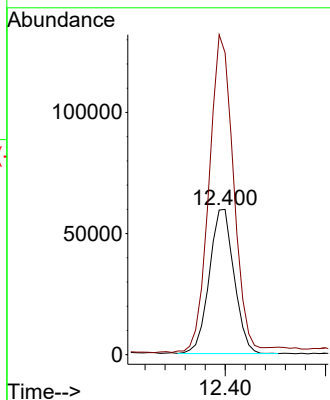
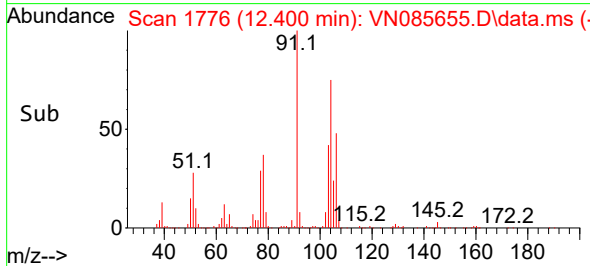
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



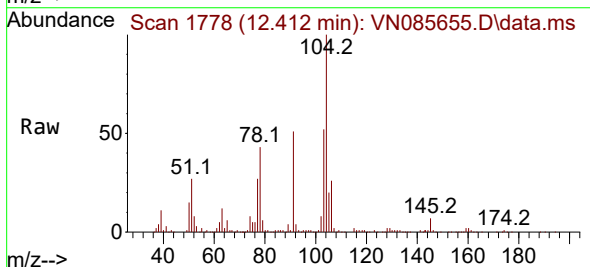
Tgt Ion:106 Resp: 10215
Ion Ratio Lower Upper
106 100
91 218.0 110.4 331.2

Manual Integrations
APPROVED

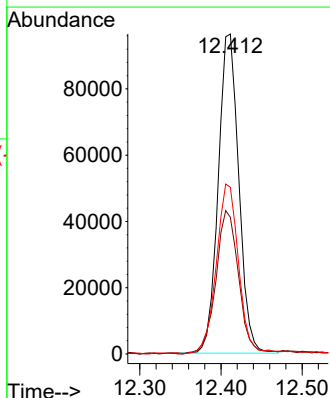
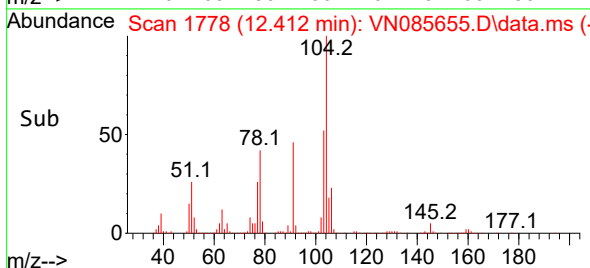
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

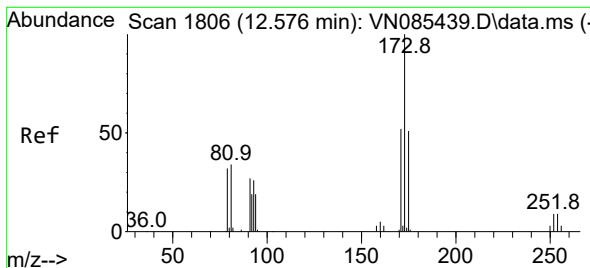


#70
Styrene
Concen: 23.149 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion:104 Resp: 169955
Ion Ratio Lower Upper
104 100
78 49.9 42.5 63.7
103 58.4 43.8 65.8





#71

Bromoform

Concen: 21.228 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

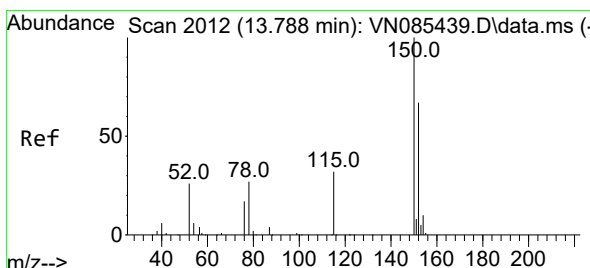
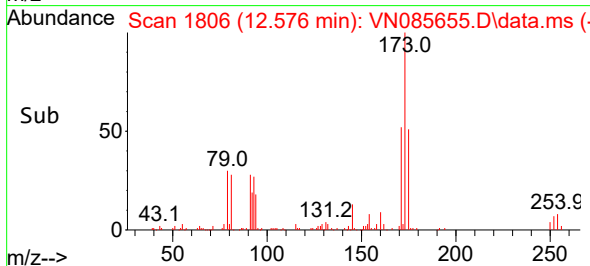
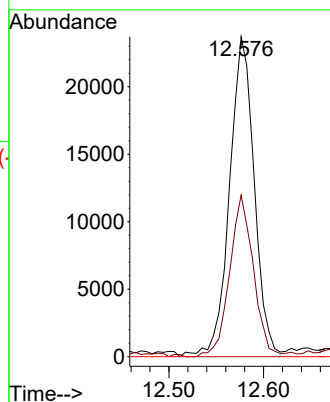
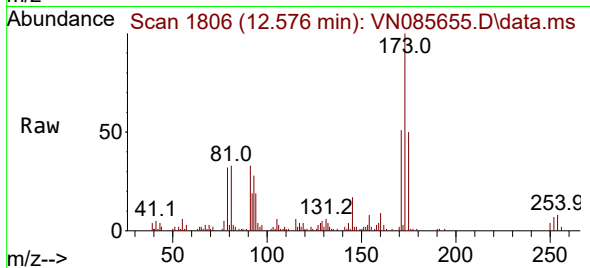
Tgt Ion:173	Resp: 42985
Ion Ratio	Lower Upper
173 100	
175 48.5	24.4 73.2
254 0.0	0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

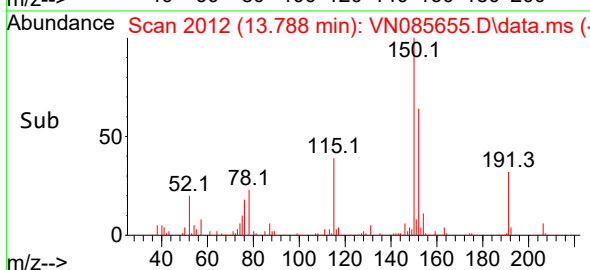
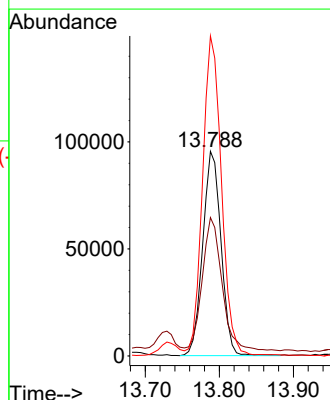
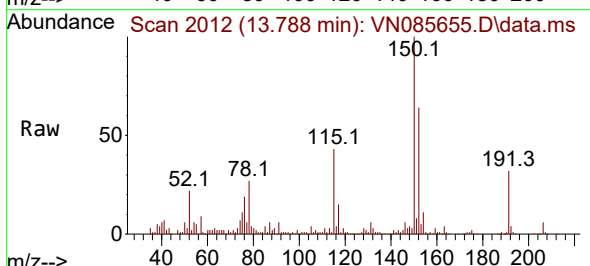
RT: 13.788 min Scan# 1212

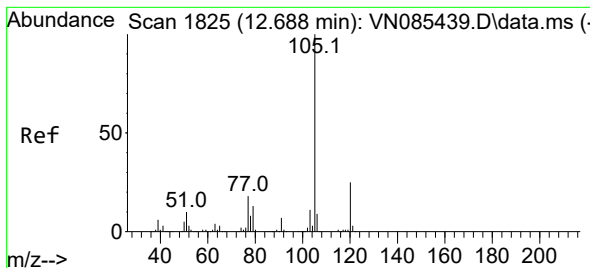
Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Tgt Ion:152	Resp: 163365
Ion Ratio	Lower Upper
152 100	
115 70.1	31.1 93.3
150 161.5	0.0 343.6





#73

Isopropylbenzene

Concen: 23.395 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

Tgt Ion:105 Resp: 25794

Ion Ratio Lower Upper

105 100

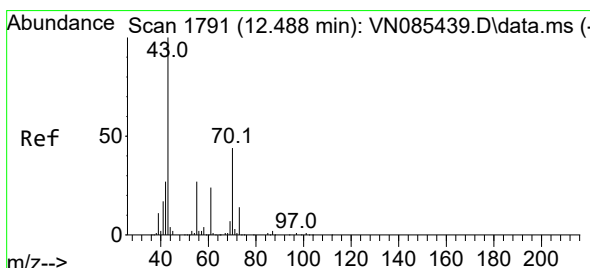
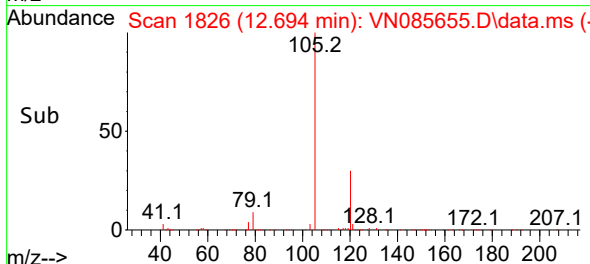
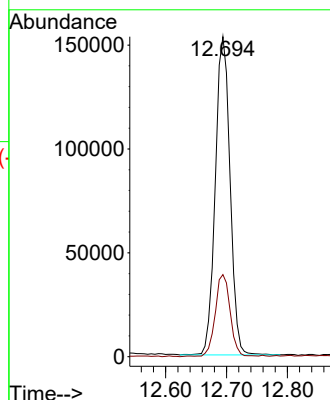
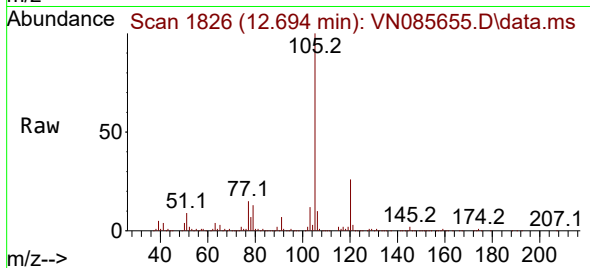
120 25.6 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#74

N-ethyl acetate

Concen: 20.202 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Tgt Ion: 43 Resp: 100117

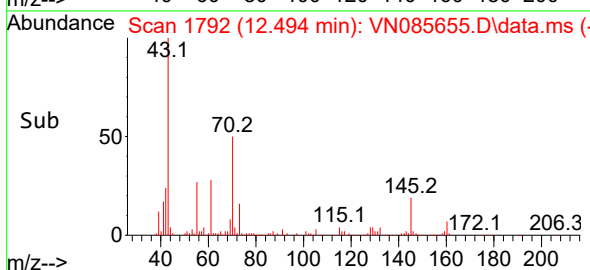
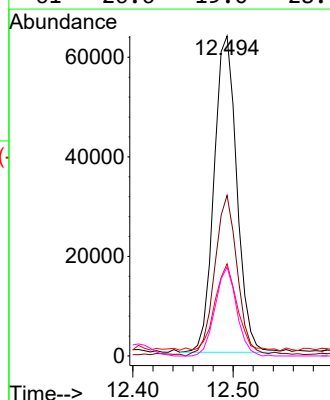
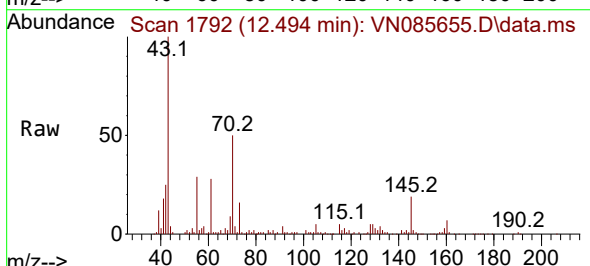
Ion Ratio Lower Upper

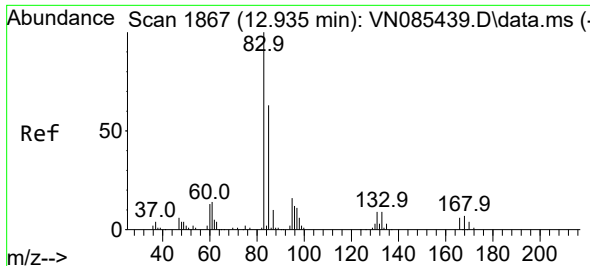
43 100

70 50.7 34.0 51.0

55 26.8 21.4 32.2

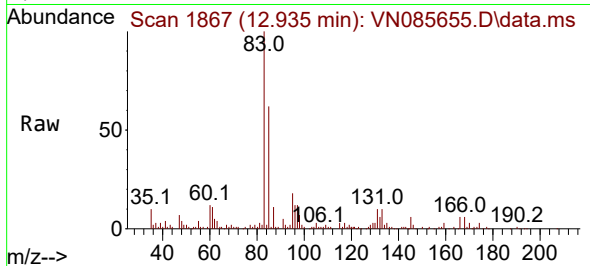
61 26.6 19.0 28.4





#75
1,1,2,2-Tetrachloroethane
Concen: 20.103 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

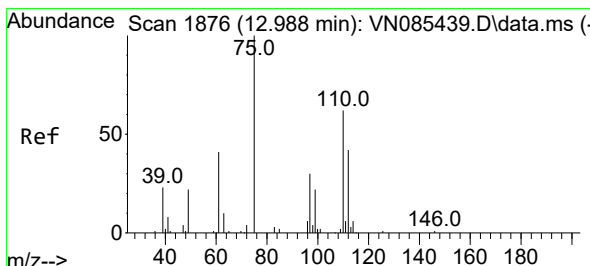
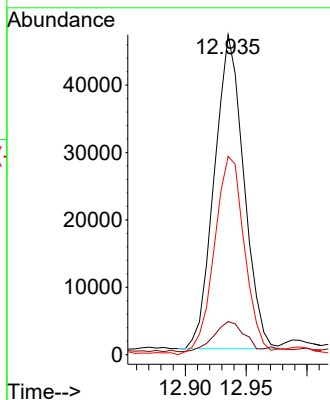
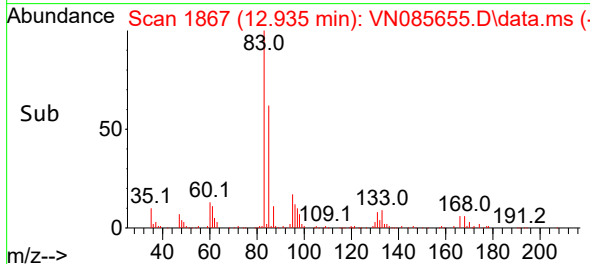
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



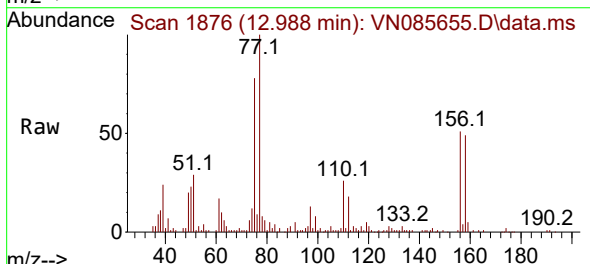
Tgt Ion: 83 Resp: 7829
Ion Ratio Lower Upper
83 100
131 10.1 4.8 14.4
85 65.9 32.2 96.6

Manual Integrations
APPROVED

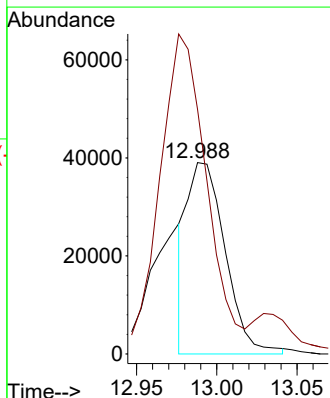
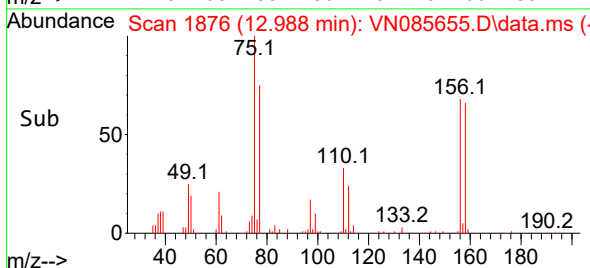
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

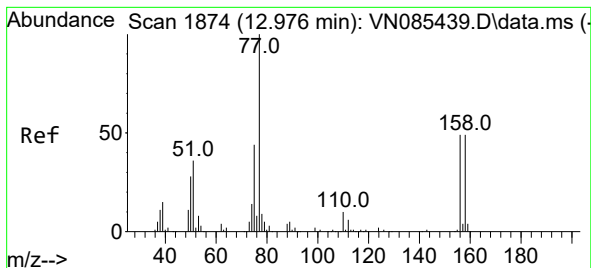


#76
1,2,3-Trichloropropane
Concen: 19.385 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 75 Resp: 64365
Ion Ratio Lower Upper
75 100
77 200.9 109.7 329.2





#77

Bromobenzene

Concen: 21.784 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

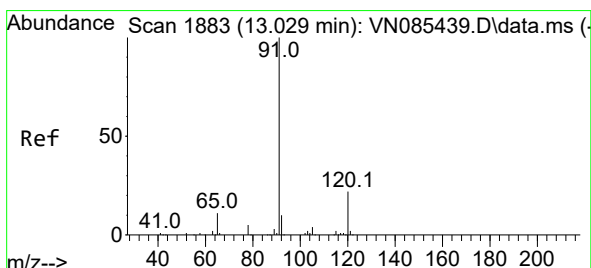
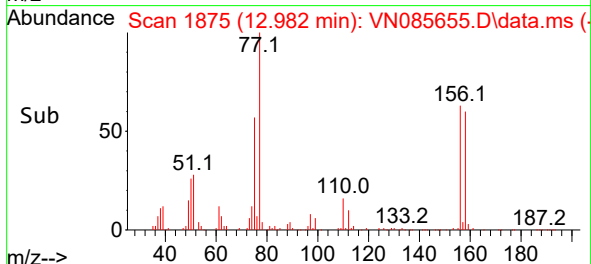
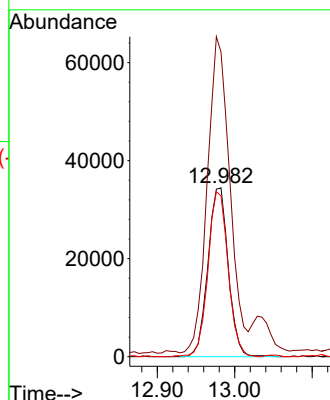
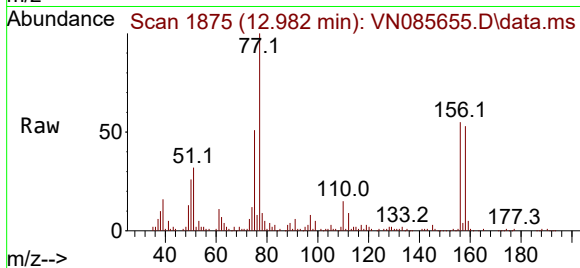
Tgt Ion:	156	Resp:	6275
Ion Ratio	Lower	Upper	
156	100		
77	206.0	114.1	342.4
158	96.3	48.9	146.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#78

n-propylbenzene

Concen: 21.950 ug/l

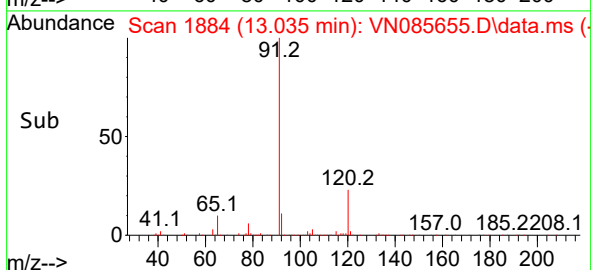
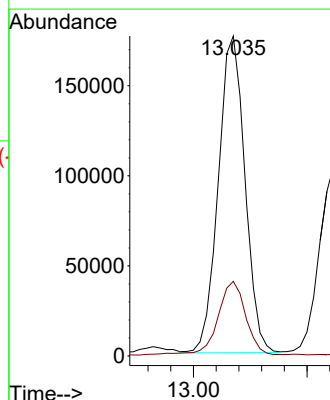
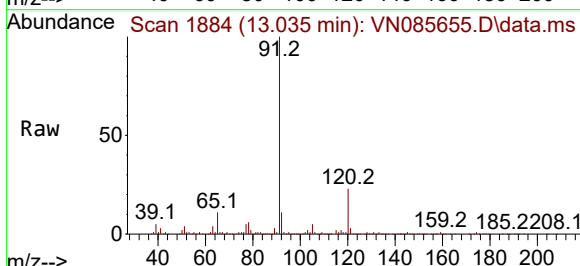
RT: 13.035 min Scan# 1884

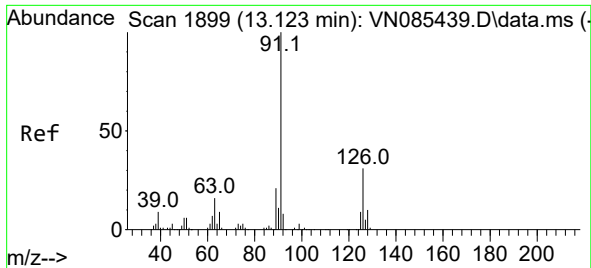
Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Tgt Ion:	91	Resp:	286507
Ion Ratio	Lower	Upper	
91	100		
120	24.4	10.9	32.6





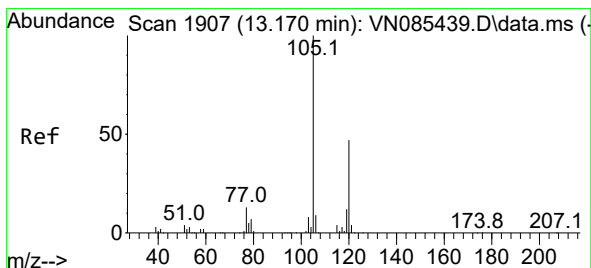
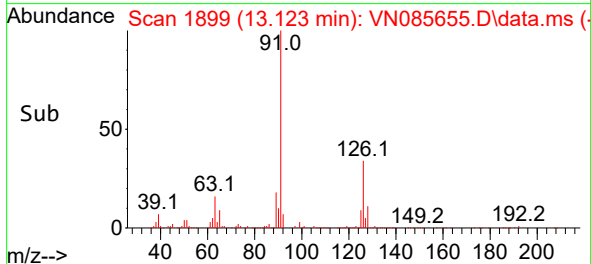
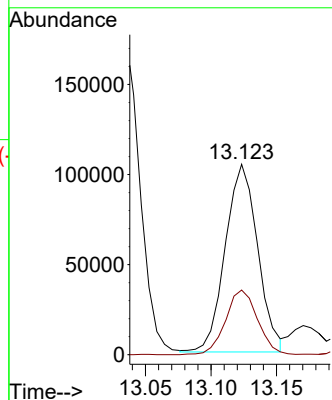
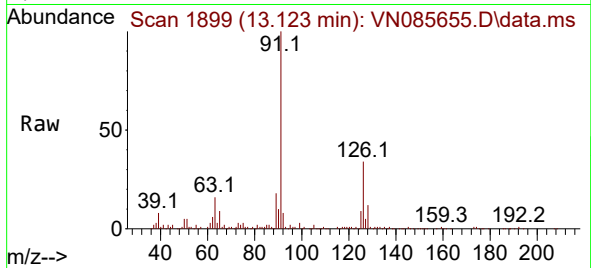
#79
2-Chlorotoluene
Concen: 21.229 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion: 91 Resp: 17933
Ion Ratio Lower Upper
91 100
126 34.0 15.7 47.1

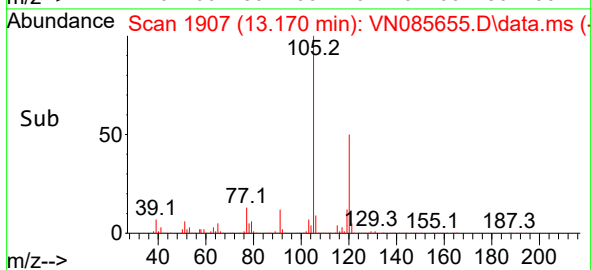
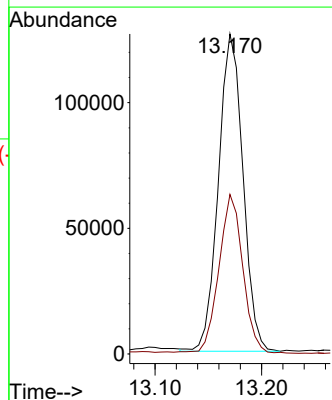
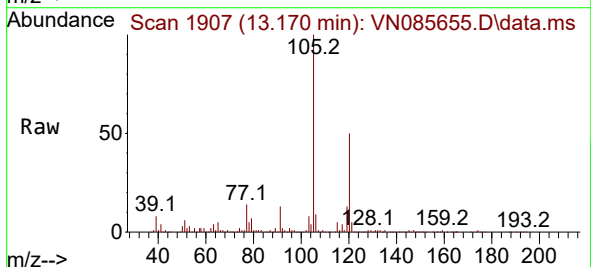
Manual Integrations
APPROVED

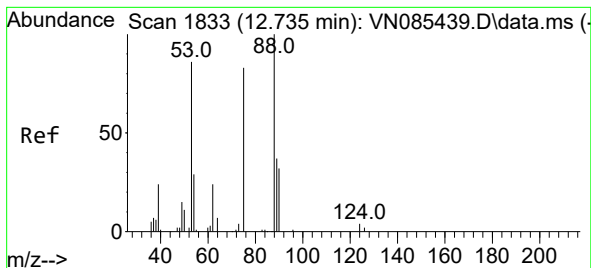
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#80
1,3,5-Trimethylbenzene
Concen: 22.184 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

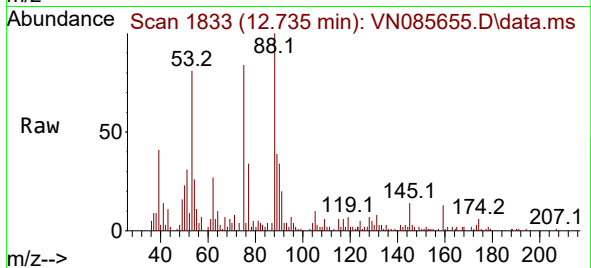
Tgt Ion:105 Resp: 202037
Ion Ratio Lower Upper
105 100
120 48.9 23.9 71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 22.668 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

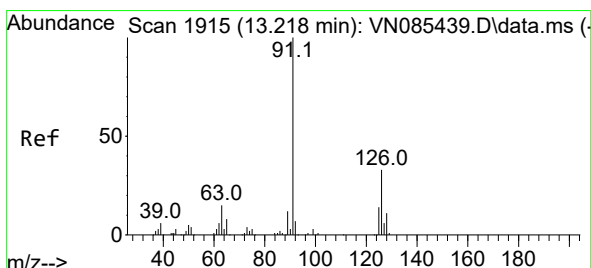
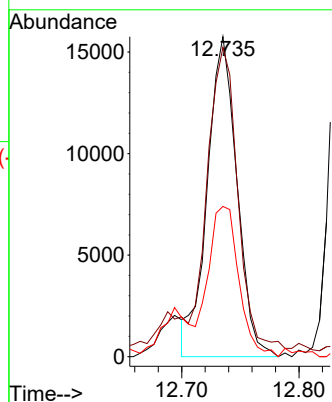
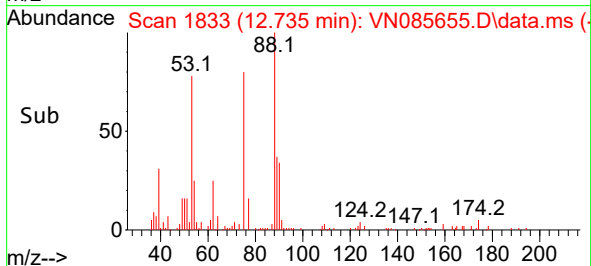
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



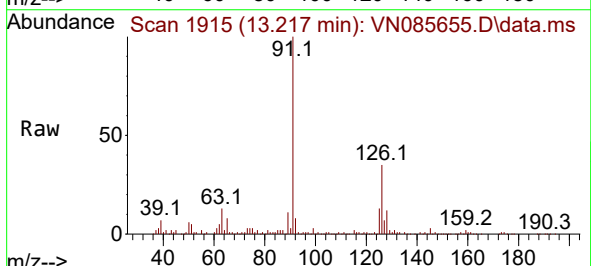
Tgt Ion: 75 Resp: 27819
Ion Ratio Lower Upper
75 100
53 93.9 95.6 143.4
89 47.8 37.0 55.6

Manual Integrations
APPROVED

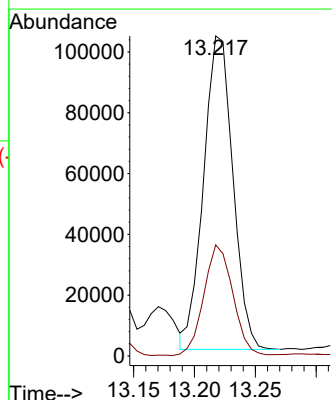
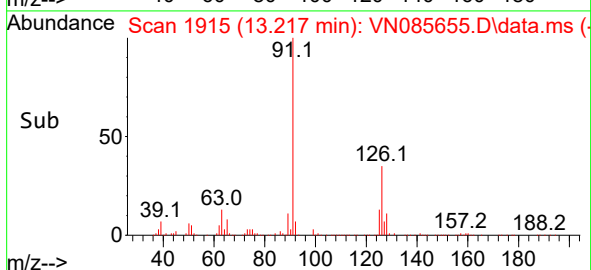
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

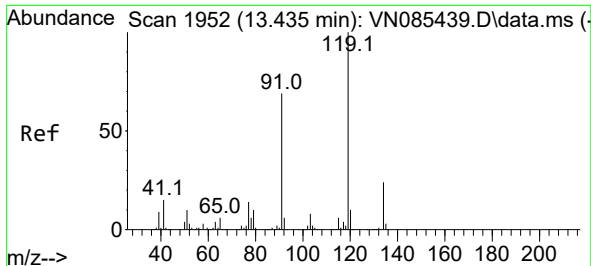


#82
4-Chlorotoluene
Concen: 20.584 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



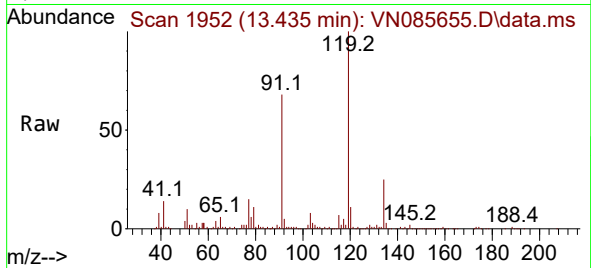
Tgt Ion: 91 Resp: 173140
Ion Ratio Lower Upper
91 100
126 34.6 15.9 47.7





#83
tert-Butylbenzene
Concen: 23.548 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

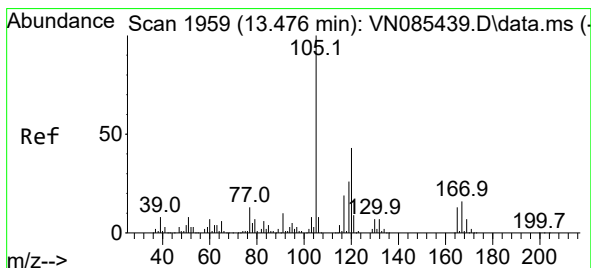
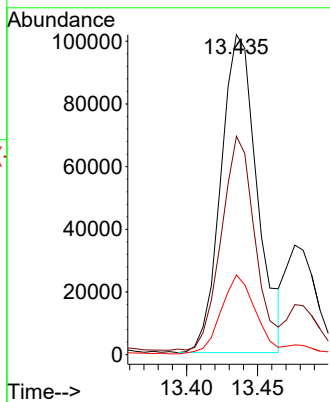
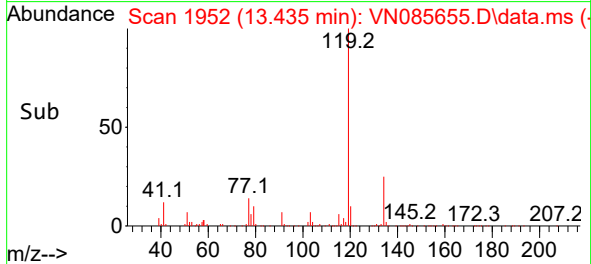
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



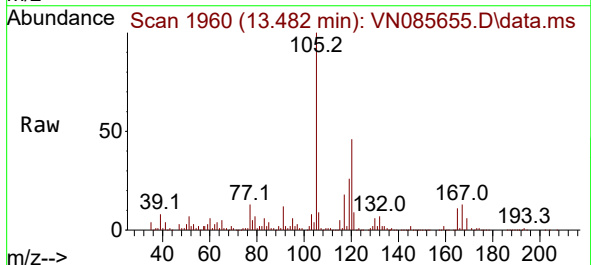
Tgt Ion:119 Resp: 180098
Ion Ratio Lower Upper
119 100
91 62.1 35.1 105.3
134 23.8 12.0 36.1

Manual Integrations
APPROVED

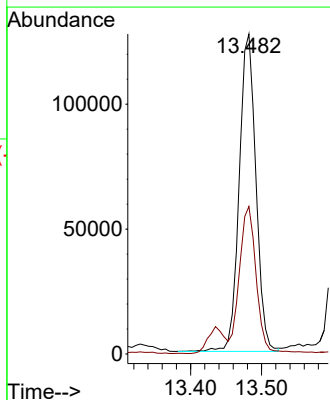
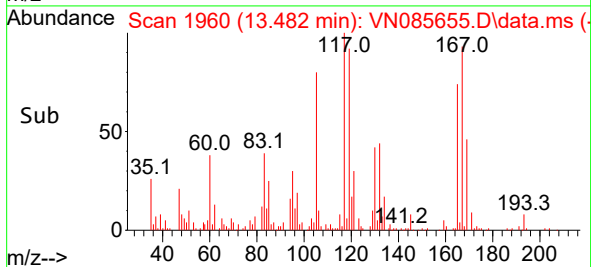
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

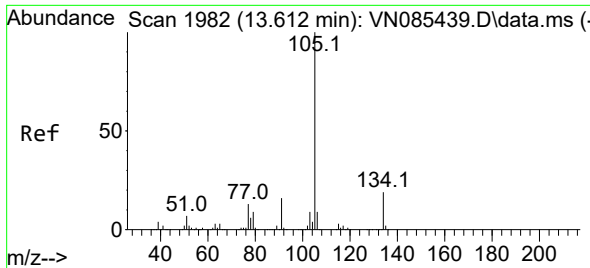


#84
1,2,4-Trimethylbenzene
Concen: 22.919 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion:105 Resp: 208039
Ion Ratio Lower Upper
105 100
120 46.1 21.6 65.0





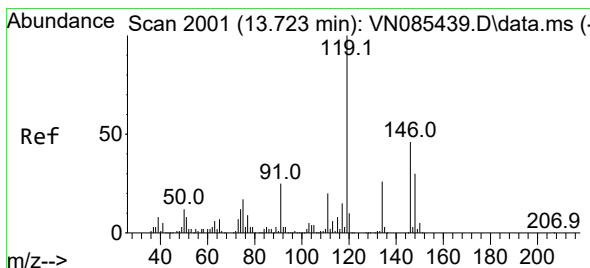
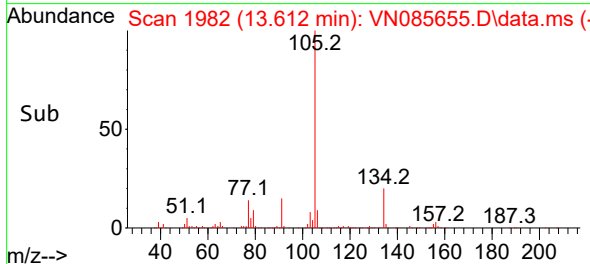
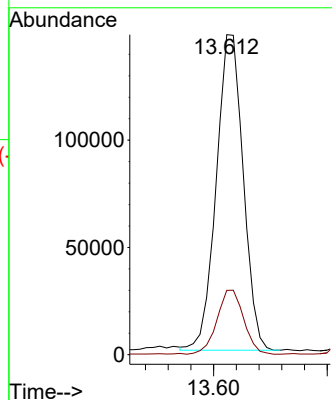
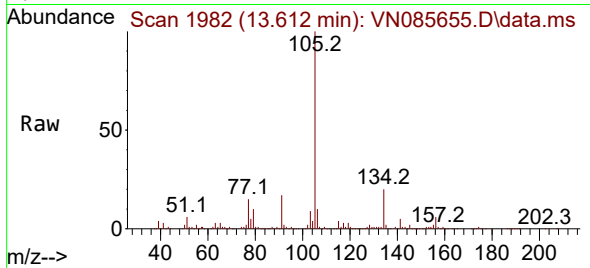
#85
 sec-Butylbenzene
 Concen: 22.904 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

Tgt Ion:105 Resp: 24278
 Ion Ratio Lower Upper
 105 100
 134 20.2 9.7 28.9

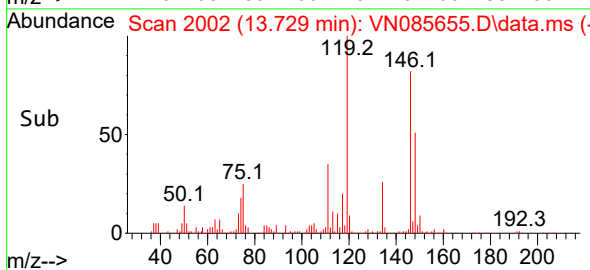
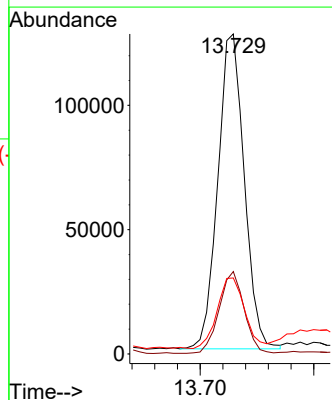
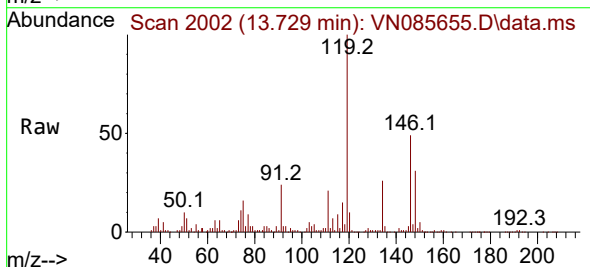
Manual Integrations
 APPROVED

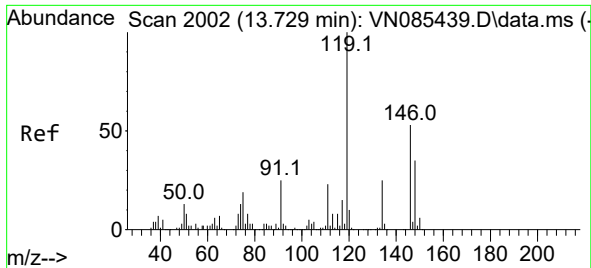
Reviewed By :John Carlone 02/05/2025
 Supervised By :Mahesh Dadoda 02/06/2025



#86
 p-Isopropyltoluene
 Concen: 22.987 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

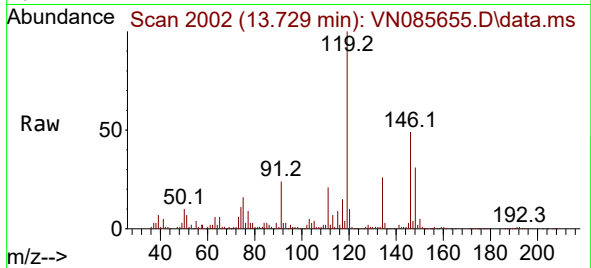
Tgt Ion:119 Resp: 204722
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.7 38.0
 91 23.3 12.7 38.1





#87
1,3-Dichlorobenzene
Concen: 20.000 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

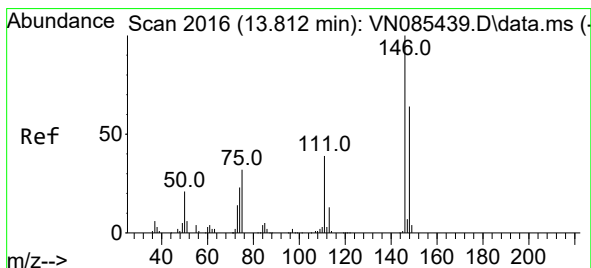
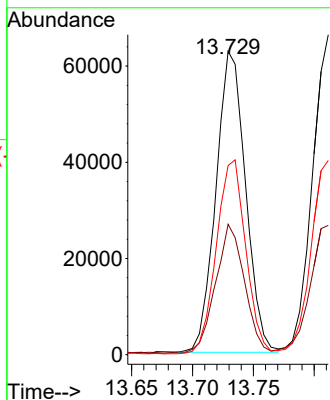
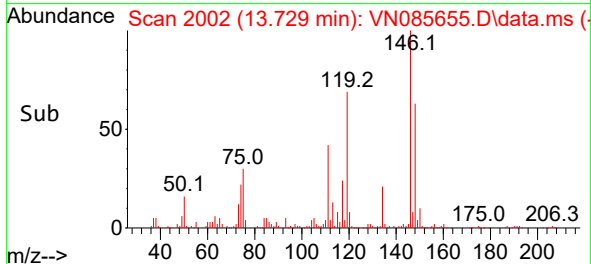
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



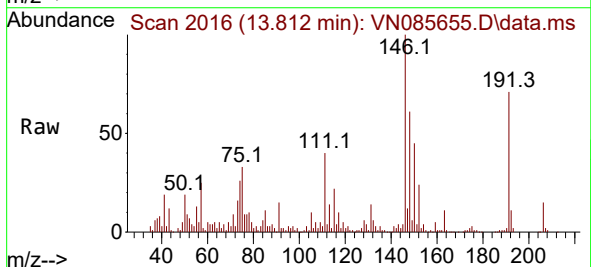
Tgt Ion:146 Resp: 106100
Ion Ratio Lower Upper
146 100
111 41.8 21.4 64.3
148 64.2 32.3 96.9

Manual Integrations
APPROVED

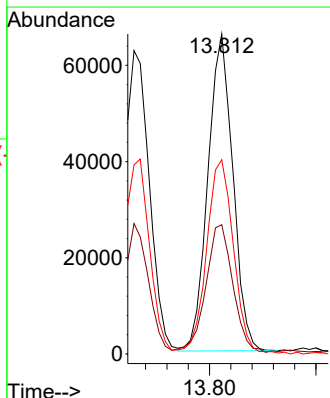
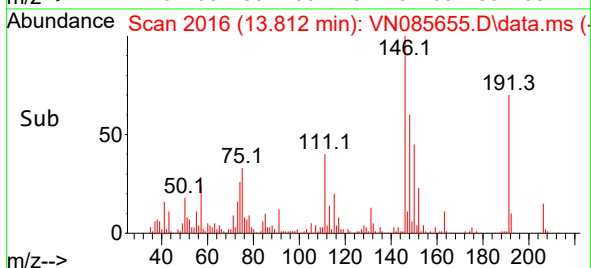
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

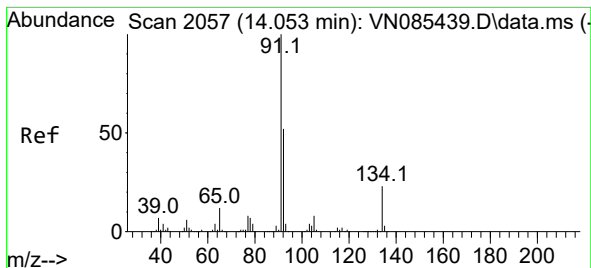


#88
1,4-Dichlorobenzene
Concen: 19.535 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion:146 Resp: 107417
Ion Ratio Lower Upper
146 100
111 43.1 21.3 63.7
148 66.1 32.4 97.0





#89

n-Butylbenzene

Concen: 23.126 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

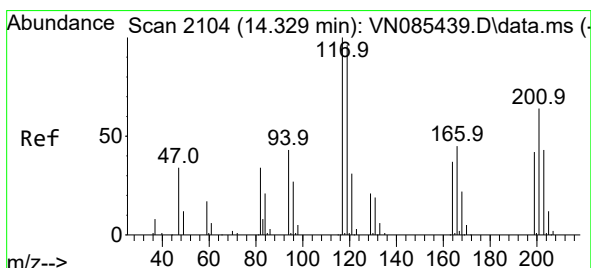
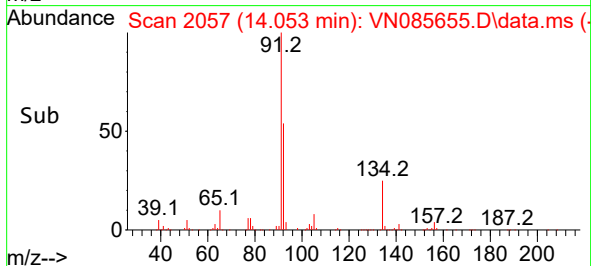
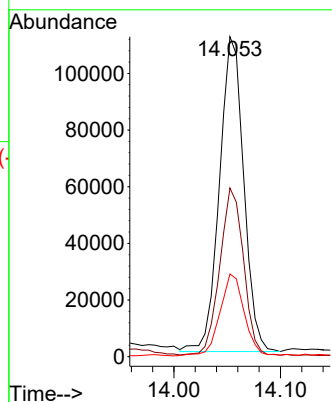
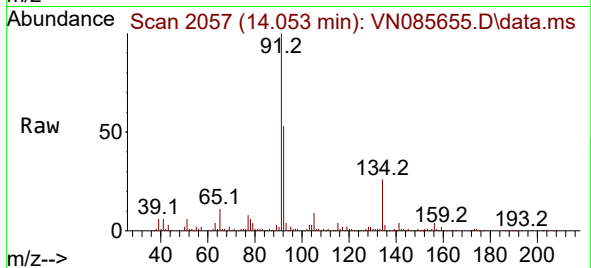
VN0204WBSD02

Tgt Ion:	91	Resp:	175860
Ion Ratio	Lower	Upper	
91	100		
92	51.9	25.8	77.3
134	25.9	11.7	35.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#90

Hexachloroethane

Concen: 18.717 ug/l

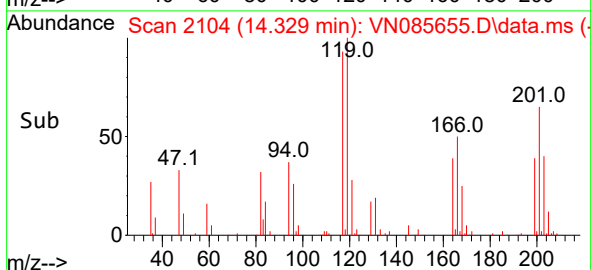
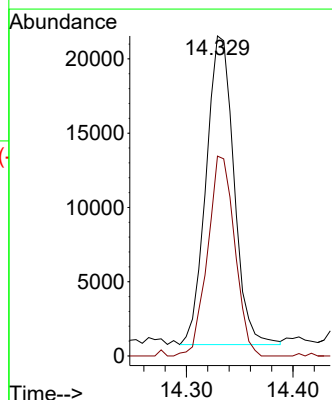
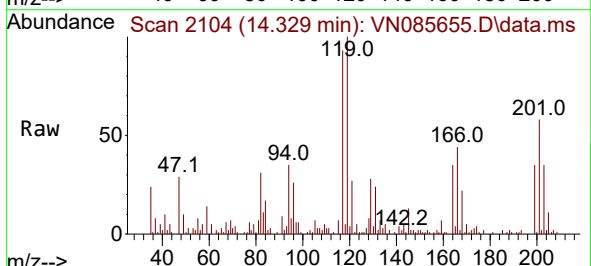
RT: 14.329 min Scan# 2104

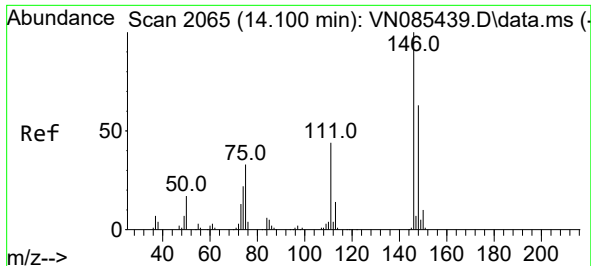
Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

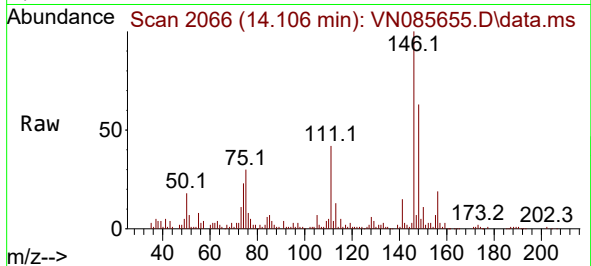
Tgt Ion:	117	Resp:	37770
Ion Ratio	Lower	Upper	
117	100		
201	62.9	33.7	101.0





#91
1,2-Dichlorobenzene
Concen: 20.260 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

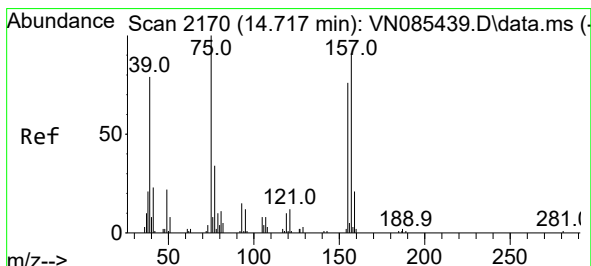
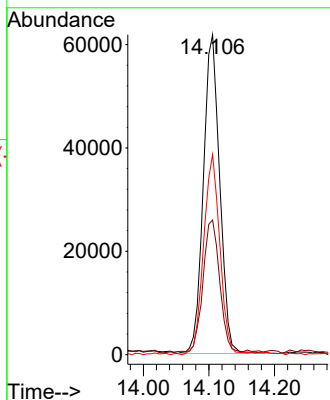
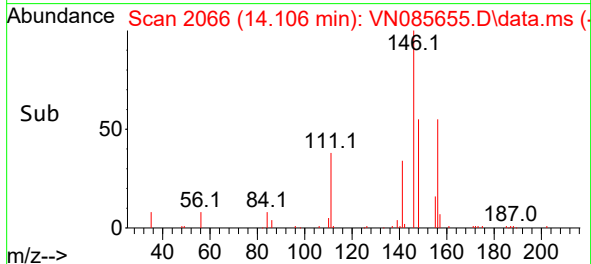
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



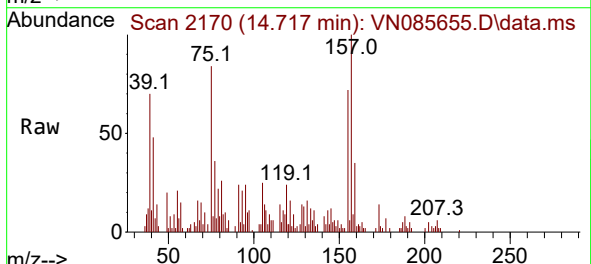
Tgt Ion:146 Resp: 107200
Ion Ratio Lower Upper
146 100
111 43.0 21.7 65.1
148 62.4 31.4 94.2

Manual Integrations
APPROVED

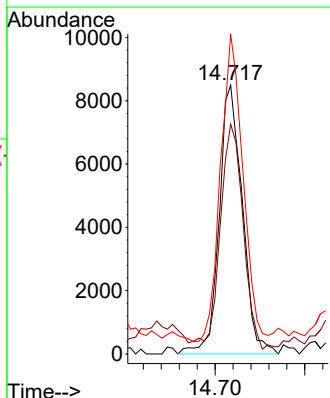
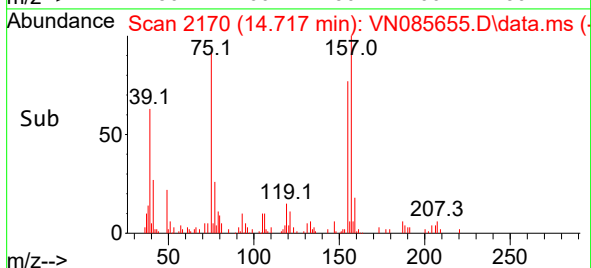
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025

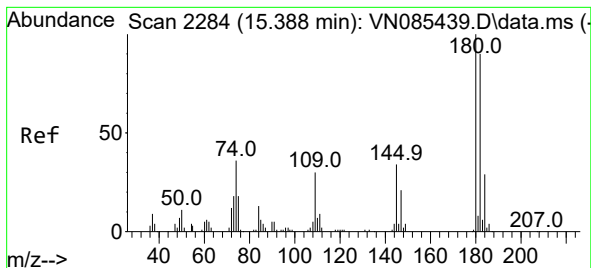


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.390 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 75 Resp: 15213
Ion Ratio Lower Upper
75 100
155 79.4 36.4 109.2
157 110.5 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 20.954 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

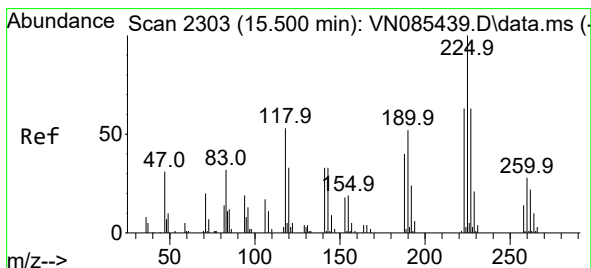
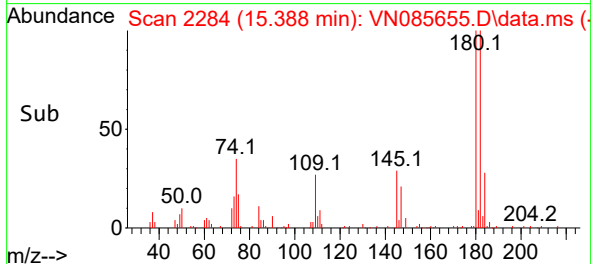
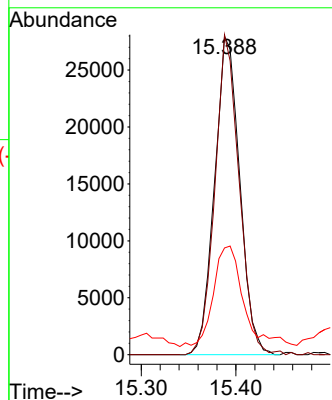
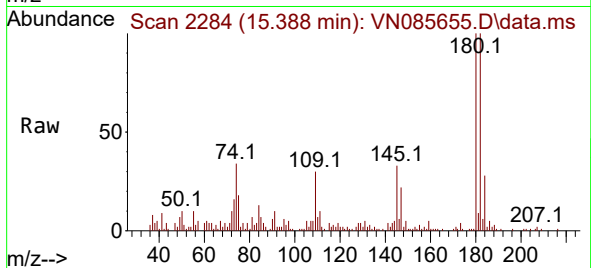
Tgt Ion:180	Resp:	51534
Ion Ratio	Lower	Upper
180	100	
182	97.0	46.8 140.3
145	37.7	16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/05/2025

Supervised By :Mahesh Dadoda 02/06/2025



#94

Hexachlorobutadiene

Concen: 16.350 ug/l

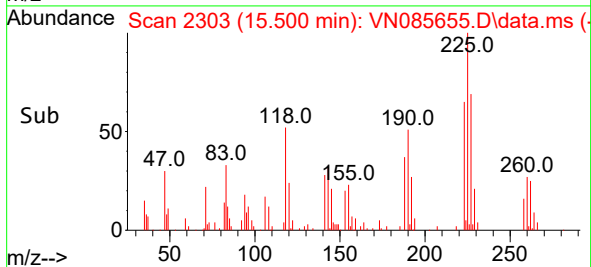
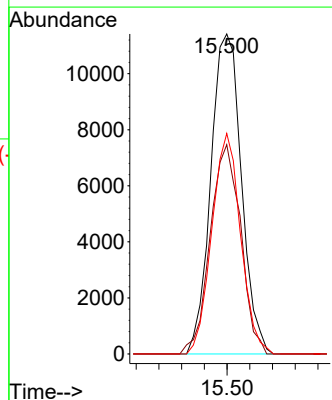
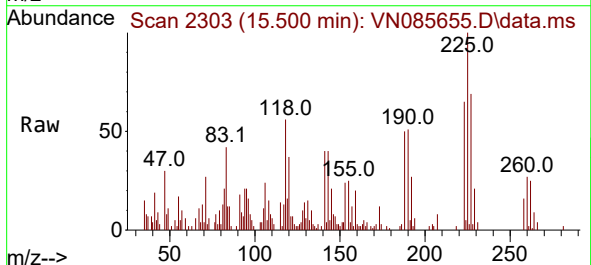
RT: 15.500 min Scan# 2303

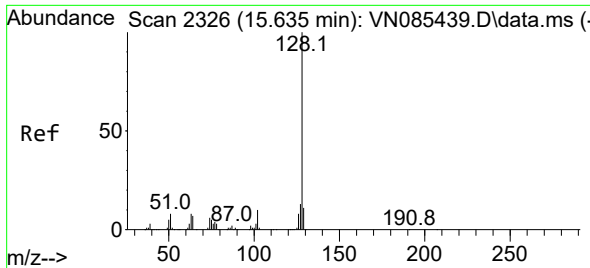
Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

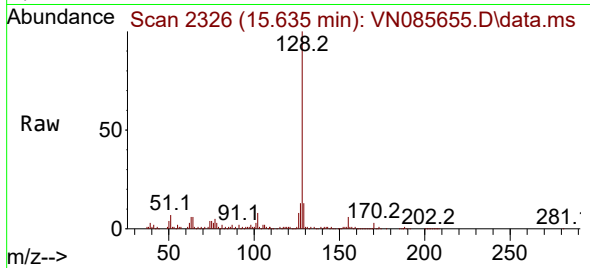
Tgt Ion:225	Resp:	21348
Ion Ratio	Lower	Upper
225	100	
223	65.1	30.7 92.1
227	64.8	30.9 92.5





#95
Naphthalene
Concen: 28.382 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

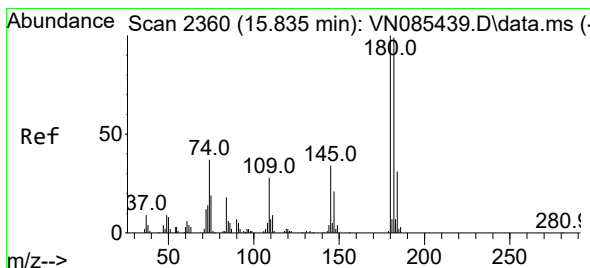
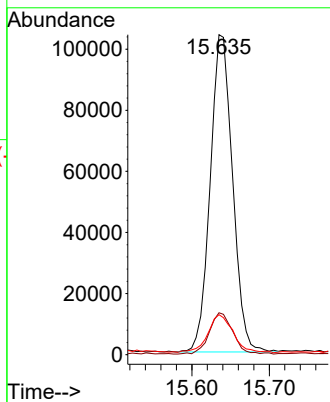
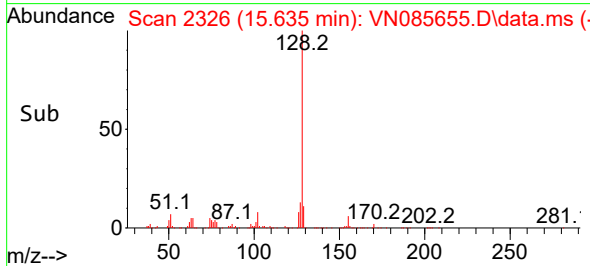
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



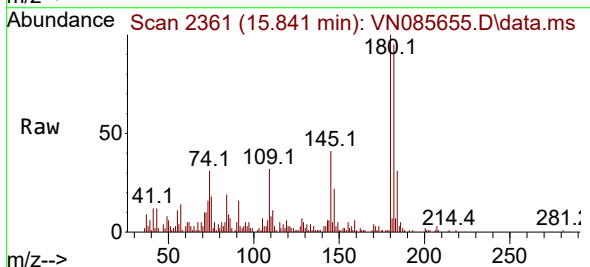
Tgt Ion:128 Resp: 20829
Ion Ratio Lower Upper
128 100
127 13.7 10.6 16.0
129 13.6 8.8 13.2

Manual Integrations
APPROVED

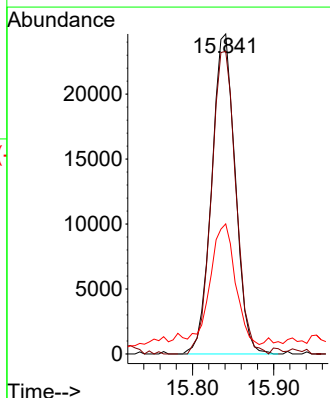
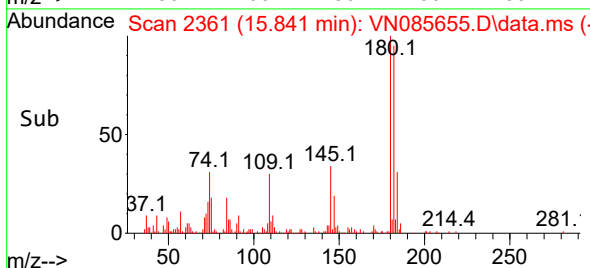
Reviewed By :John Carlone 02/05/2025
Supervised By :Mahesh Dadoda 02/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.973 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion:180 Resp: 49703
Ion Ratio Lower Upper
180 100
182 97.9 47.4 142.2
145 39.9 16.9 50.7



Manual Integration Report

Sequence:	VN011425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085438.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:09 AM	MMDadoda	1/15/2025 12:55:19 PM	Peak Integrated by Software
VSTDICCC050	VN085439.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:14 AM	MMDadoda	1/15/2025 12:55:22 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	trans-1,4-Dichloro-2-but ene	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC020	VN085440.D	Vinyl Acetate	JOHN	1/15/2025 9:31:19 AM	MMDadoda	1/15/2025 12:55:25 PM	Peak Integrated by Software
VSTDICC010	VN085441.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:23 AM	MMDadoda	1/15/2025 12:55:29 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	Ethyl Acetate	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC005	VN085442.D	Vinyl Acetate	JOHN	1/15/2025 9:31:28 AM	MMDadoda	1/15/2025 12:55:34 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,1,2-Trichlorotrifluoroet hane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,1-Dichloroethane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	1,4-Dichlorobenzene	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN011425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN085443.D	2-Butanone	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	Ethyl Acetate	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICC001	VN085443.D	Vinyl Acetate	JOHN	1/15/2025 9:31:32 AM	MMDadoda	1/15/2025 12:55:39 PM	Peak Integrated by Software
VSTDICV050	VN085445.D	1,2,3-Trichloropropane	JOHN	1/15/2025 9:31:37 AM	MMDadoda	1/15/2025 12:55:43 PM	Peak Integrated by Software
VSTDICV050	VN085445.D	trans-1,4-Dichloro-2-butene	JOHN	1/15/2025 9:31:37 AM	MMDadoda	1/15/2025 12:55:43 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN020425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085645.D	1,2,3-Trichloropropane	JOHN	2/5/2025 9:38:29 AM	MMDadoda	2/6/2025 11:04:41 AM	Peak Integrated by Software
VN0204WBS02	VN085651.D	1,2,3-Trichloropropane	JOHN	2/5/2025 9:38:42 AM	MMDadoda	2/6/2025 11:04:44 AM	Peak Integrated by Software
VN0204WBS02	VN085651.D	Allyl chloride	JOHN	2/5/2025 9:38:42 AM	MMDadoda	2/6/2025 11:04:44 AM	Peak Integrated by Software
VN0204WBS02	VN085651.D	Isopropyl Acetate	JOHN	2/5/2025 9:38:42 AM	MMDadoda	2/6/2025 11:04:44 AM	Peak Integrated by Software
VN0204WBSD0 2	VN085655.D	1,2,3-Trichloropropane	JOHN	2/5/2025 9:39:14 AM	MMDadoda	2/6/2025 11:04:50 AM	Peak Integrated by Software
VN0204WBSD0 2	VN085655.D	trans-1,4-Dichloro-2-but ene	JOHN	2/5/2025 9:39:14 AM	MMDadoda	2/6/2025 11:04:50 AM	Peak Integrated by Software
VSTDCCC050	VN085664.D	1,2,3-Trichloropropane	JOHN	2/5/2025 9:39:19 AM	MMDadoda	2/6/2025 11:04:52 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN011425

Review By	John Carlone	Review On	1/15/2025 9:31:51 AM		
Supervise By	Maresh Dadoda	Supervise On	1/15/2025 12:55:51 PM		
SubDirectory	VN011425	HP Acquire Method	MSVOA_N	HP Processing Method	82N011425W.M
STD. NAME		STD REF.#			
Tune/Reschk		VP132529			
Initial Calibration Stds		VP132530,VP132531,VP132532,VP132533,VP132534,VP132535			
CCC					
Internal Standard/PEM					
ICV/I.BLK		VP132544			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampled	Data File Name	Date-Time	Operator	Status
1	BFB	VN085437.D	14 Jan 2025 14:22	JC\MD	Ok
2	VSTDICC100	VN085438.D	14 Jan 2025 14:56	JC\MD	Ok,M
3	VSTDICCC050	VN085439.D	14 Jan 2025 15:19	JC\MD	Ok,M
4	VSTDICC020	VN085440.D	14 Jan 2025 15:43	JC\MD	Ok,M
5	VSTDICC010	VN085441.D	14 Jan 2025 16:07	JC\MD	Ok,M
6	VSTDICC005	VN085442.D	14 Jan 2025 16:31	JC\MD	Ok,M
7	VSTDICC001	VN085443.D	14 Jan 2025 17:19	JC\MD	Ok,M
8	IBLK	VN085444.D	14 Jan 2025 17:42	JC\MD	Ok
9	VSTDICV050	VN085445.D	14 Jan 2025 18:06	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN020425

Review By	John Carlone	Review On	2/5/2025 9:55:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/6/2025 11:05:00 AM		
SubDirectory	VN020425	HP Acquire Method	MSVOA_N	HP Processing Method	82N011425W.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP132858			
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP132859,VP132860			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085644.D	04 Feb 2025 09:55	JC\MD	Ok
2	VSTDCCC050	VN085645.D	04 Feb 2025 11:05	JC\MD	Ok,M
3	VN0204MBL01	VN085646.D	04 Feb 2025 12:07	JC\MD	Ok
4	VN0204WBL01	VN085647.D	04 Feb 2025 12:31	JC\MD	Ok
5	VN0204WBS01	VN085648.D	04 Feb 2025 13:38	JC\MD	Not Ok
6	Q1234-06	VN085649.D	04 Feb 2025 14:02	JC\MD	Ok
7	Q1241-02	VN085650.D	04 Feb 2025 14:27	JC\MD	Ok
8	VN0204WBS02	VN085651.D	04 Feb 2025 14:51	JC\MD	Ok,M
9	VN0204MBS01	VN085652.D	04 Feb 2025 15:24	JC\MD	Ok,M
10	Q1218-01ME	VN085653.D	04 Feb 2025 15:49	JC\MD	Not Ok
11	Q1219-01	VN085654.D	04 Feb 2025 16:13	JC\MD	Ok,M
12	VN0204WBSD02	VN085655.D	04 Feb 2025 16:37	JC\MD	Ok,M
13	IBLK	VN085656.D	04 Feb 2025 17:01	JC\MD	Ok
14	Q1268-01	VN085657.D	04 Feb 2025 17:25	JC\MD	ReRun
15	Q1268-02	VN085658.D	04 Feb 2025 17:50	JC\MD	ReRun
16	Q1268-03	VN085659.D	04 Feb 2025 18:14	JC\MD	ReRun
17	Q1268-04	VN085660.D	04 Feb 2025 18:38	JC\MD	ReRun
18	Q1249-01	VN085661.D	04 Feb 2025 19:02	JC\MD	Ok
19	IBLK	VN085662.D	04 Feb 2025 19:27	JC\MD	Ok
20	Q1282-01	VN085663.D	04 Feb 2025 19:51	JC\MD	Ok
21	VSTDCCC050	VN085664.D	04 Feb 2025 20:15	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN011425

Review By	John Carlone	Review On	1/15/2025 9:31:51 AM
Supervise By	Mahesh Dadoda	Supervise On	1/15/2025 12:55:51 PM
SubDirectory	VN011425	HP Acquire Method	MSVOA_N HP Processing Method 82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132529
Initial Calibration Stds	VP132530,VP132531,VP132532,VP132533,VP132534,VP132535
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP132544
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085437.D	14 Jan 2025 14:22		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085438.D	14 Jan 2025 14:56		JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085439.D	14 Jan 2025 15:19	Comp.#56 is on Linear Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085440.D	14 Jan 2025 15:43	Comp.#86 is on Quadratic Regression	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN085441.D	14 Jan 2025 16:07		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085442.D	14 Jan 2025 16:31		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085443.D	14 Jan 2025 17:19		JC\MD	Ok,M
8	IBLK	IBLK	VN085444.D	14 Jan 2025 17:42		JC\MD	Ok
9	VSTDICV050	ICVVN011425	VN085445.D	14 Jan 2025 18:06		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN020425

Review By	John Carlone	Review On	2/5/2025 9:55:08 AM
Supervise By	Mahesh Dadoda	Supervise On	2/6/2025 11:05:00 AM
SubDirectory	VN020425	HP Acquire Method	MSVOA_N HP Processing Method 82N011425W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132858
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132859,VP132860

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085644.D	04 Feb 2025 09:55		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085645.D	04 Feb 2025 11:05	CCAL failed high for comp. #68,69 and low for comp.#13	JC\MD	Ok,M
3	VN0204MBL01	VN0204MBL01	VN085646.D	04 Feb 2025 12:07		JC\MD	Ok
4	VN0204WBL01	VN0204WBL01	VN085647.D	04 Feb 2025 12:31		JC\MD	Ok
5	VN0204WBS01	VN0204WBS01	VN085648.D	04 Feb 2025 13:38	Surrogate Fail	JC\MD	Not Ok
6	Q1234-06	50605	VN085649.D	04 Feb 2025 14:02	vial A pH<2	JC\MD	Ok
7	Q1241-02	JPP-3.5-013025	VN085650.D	04 Feb 2025 14:27	vial A pH#5.0	JC\MD	Ok
8	VN0204WBS02	VN0204WBS02	VN085651.D	04 Feb 2025 14:51	BS failed low for comp. #58	JC\MD	Ok,M
9	VN0204MBS01	VN0204MBS01	VN085652.D	04 Feb 2025 15:24	BS failed low for comp. #28	JC\MD	Ok,M
10	Q1218-01ME	BELL-25-002ME	VN085653.D	04 Feb 2025 15:49	Already analyzed	JC\MD	Not Ok
11	Q1219-01	LAW-25-0015	VN085654.D	04 Feb 2025 16:13		JC\MD	Ok,M
12	VN0204WBSD02	VN0204WBSD02	VN085655.D	04 Feb 2025 16:37	BSD failed low for comp. #58	JC\MD	Ok,M
13	IBLK	IBLK	VN085656.D	04 Feb 2025 17:01		JC\MD	Ok
14	Q1268-01	Storage-Blank-SOIL-RE	VN085657.D	04 Feb 2025 17:25	vial A pH<2	JC\MD	ReRun
15	Q1268-02	Storage-Blank-WATER-	VN085658.D	04 Feb 2025 17:50	vial A pH<2	JC\MD	ReRun
16	Q1268-03	Storage-Blank-WATER-	VN085659.D	04 Feb 2025 18:14	vial A pH<2	JC\MD	ReRun
17	Q1268-04	Storage-Blank-SAMPLE	VN085660.D	04 Feb 2025 18:38	vial A pH<2	JC\MD	ReRun

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN020425

Review By	John Carlone	Review On	2/5/2025 9:55:08 AM			
Supervise By	Mahesh Dadoda	Supervise On	2/6/2025 11:05:00 AM			
SubDirectory	VN020425	HP Acquire Method	MSVOA_N	HP Processing Method	82N011425W.M	
STD. NAME		STD REF.#				
Tune/Reschk Initial Calibration Stds		VP132858				
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard		VP132859,VP132860				

18	Q1249-01	BP-VPB-192-GW-460-4	VN085661.D	04 Feb 2025 19:02	vial A pH<2	JC\MD	Ok
19	IBLK	IBLK	VN085662.D	04 Feb 2025 19:27		JC\MD	Ok
20	Q1282-01	SW-WTS-02	VN085663.D	04 Feb 2025 19:51	vial A pH<2	JC\MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VN085664.D	04 Feb 2025 20:15		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1249
Test : VOCMS Group1

Prepbatch ID :
Sequence ID/Qc Batch ID: VN020425,

Standard ID :
VP130430,VP131746,VP131767,VP132035,VP132096,VP132468,VP132613,VP132858,VP132859,VP132860,

Chemical ID :
V13391,V13446,V13457,V13460,V13465,V13466,V13707,V14145,V14154,V14175,V14176,V14289,V14433,V14439,V
14521,V14522,V14614,V14624,V14627,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14
801,V14814,V14830,V14831,V14832,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
09/26/2024								

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = 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>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/23/2024								

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = 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>
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>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml 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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP132468	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/17/2025

FROM 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = 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>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 01/29/2025

FROM 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml 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>
589	BFB TUNE CHECK	VP132858	02/04/2025	02/05/2025	John Carlone	None	None	Semsettin Yesilyurt 02/06/2025

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>
620	50 PPB CCC, 8260-Water	VP132859	02/04/2025	02/05/2025	John Carlone	None	None	Semsettin Yesilyurt
02/06/2025								

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = 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>
620	50 PPB CCC, 8260-Water	VP132860	02/04/2025	02/05/2025	John Carlone	None	None	Semsettin Yesilyurt
02/06/2025								

FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = 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	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

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	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

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

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	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

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	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

CHEMICAL RECEIPT LOG BOOK

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	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

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	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

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	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

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	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

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)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

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	07/06/2025	01/06/2025 / SAM	11/26/2024 / SAM	V14627

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

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	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

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	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

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	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

LOTS

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)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14830

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14832

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

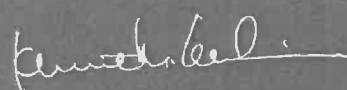
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

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

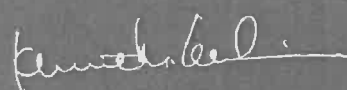
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

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

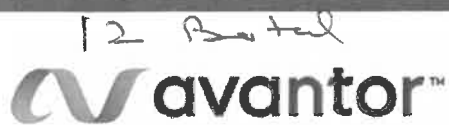
For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

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



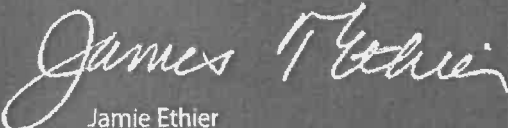
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

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



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein

Expiration Date: 020725

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

Solvent(s): Lot#
Water 072324Q

5E-05 Balance Uncertainty

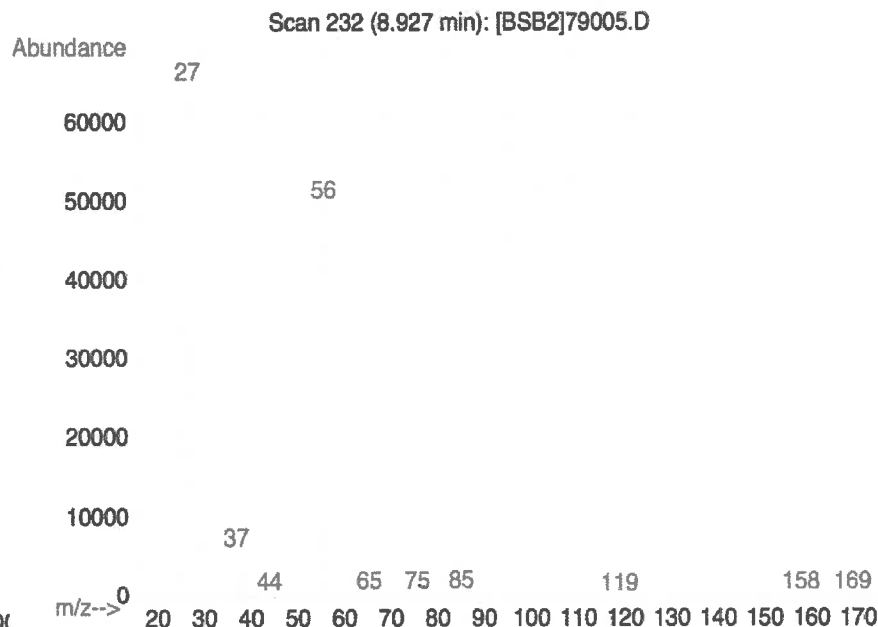
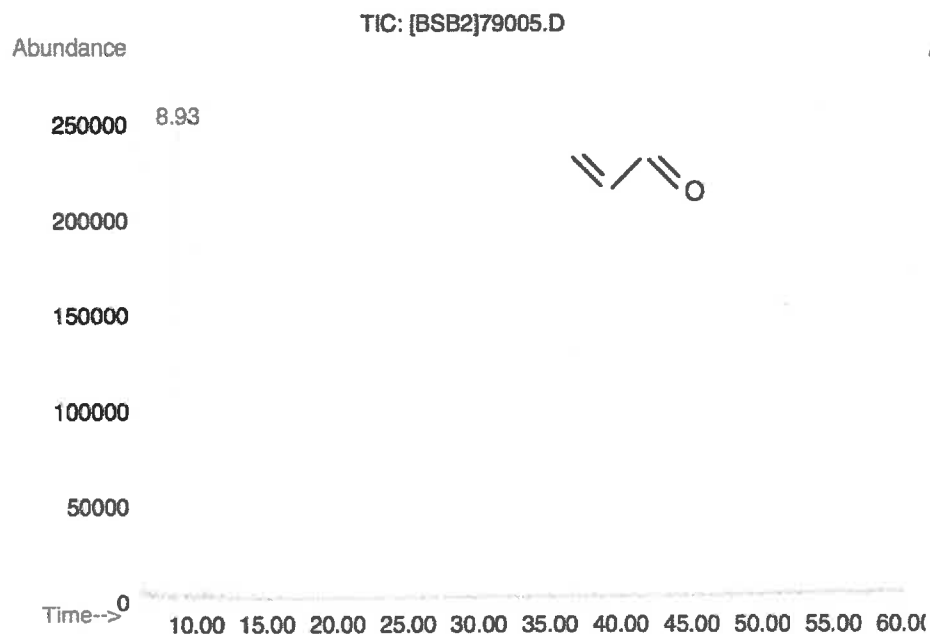
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		010725
Formulated By:	Anthony Mahoney	DATE
		010725
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	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	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 Rossetto 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)

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.
	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

Water	CAS#: 7732-18-5	TWA: 500 ppm
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	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
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



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **010725**
Description: **Acrolein**

Expiration Date: **020725**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **5000**NIST Test ID#: **6UTB**

Solvent(s): **Water** Lot# **072324Q**

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

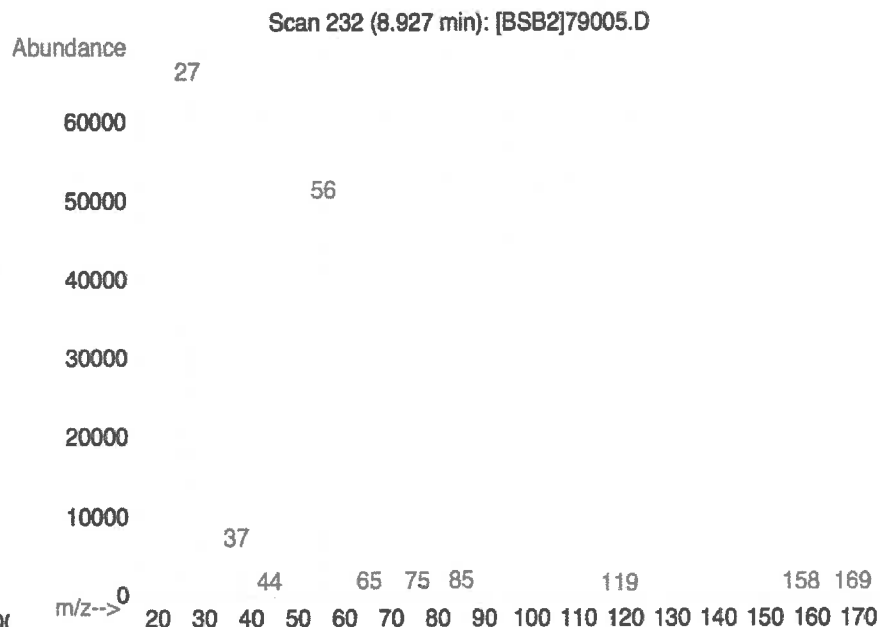
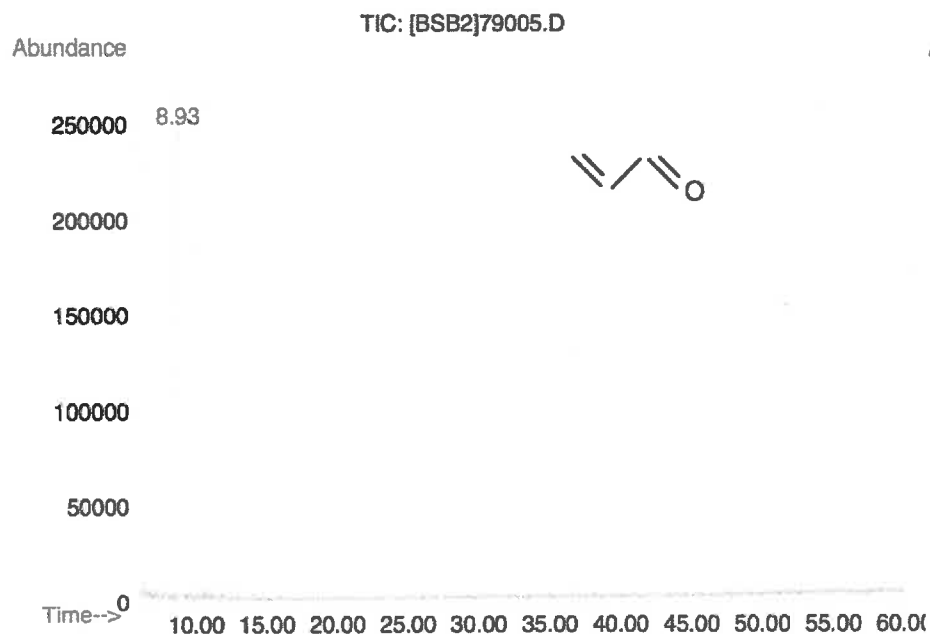
Weight(s) shown below were combined and diluted to (mL): **10.0**

<i>Anthony Mahoney</i>		010725
Formulated By:	Anthony Mahoney	DATE
<i>Pedro L. Rentas</i>		010725
Reviewed By:	Pedro L. Rentas	DATE

5 vial
V 14823 to
V 14829 *V 14827*

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	0.05178	5011.8	52.6	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 Rossetto 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)

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.
	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

Water	CAS#: 7732-18-5	TWA: 500 ppm
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	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
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


 ANAB ISO 17034 Accredited
 AR-1539 Certificate Number
 https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

 Part Number: 91980
 Lot Number: 010725
 Description: Acrolein

Expiration Date: 020725

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

 Solvent(s): Water
 Lot#: 072324Q

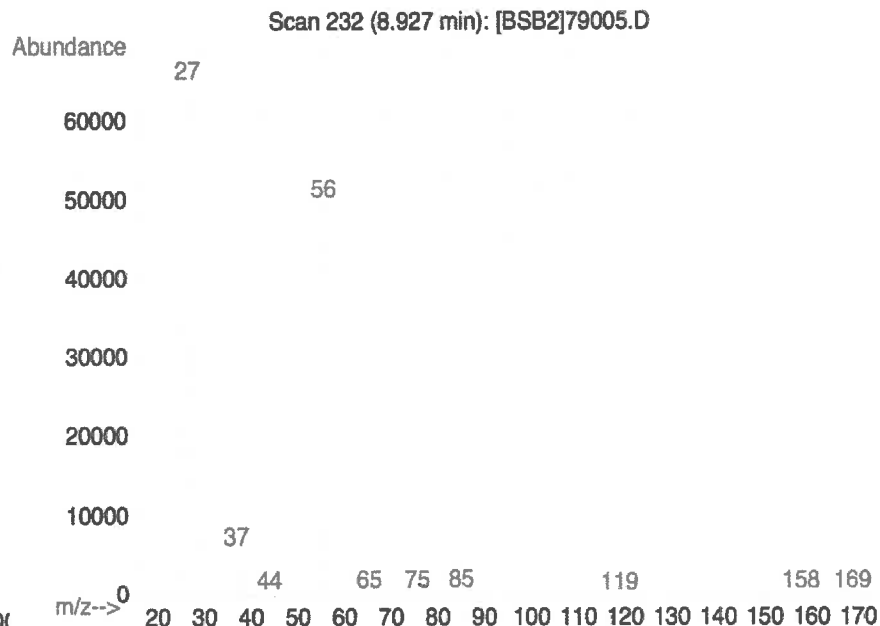
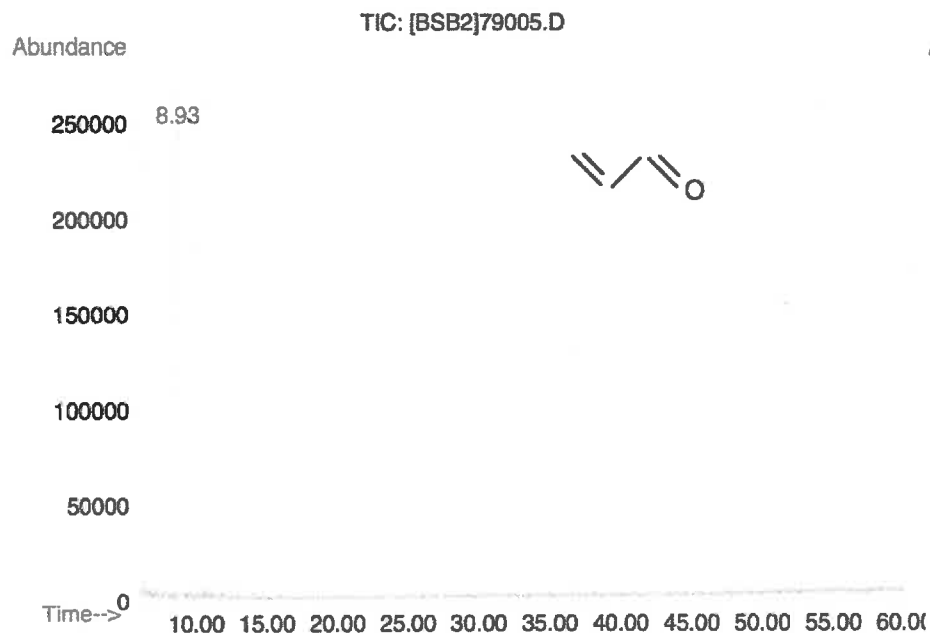
 5E-05 Balance Uncertainty
 0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

<i>Anthony Mahoney</i>		010725
Formulated By:	Anthony Mahoney	DATE
<i>Pedro L. Rentas</i>		010725
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	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocool (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 Rossetto 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)

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.
	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

Water	CAS#: 7732-18-5	TWA: 500 ppm
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	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
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 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#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

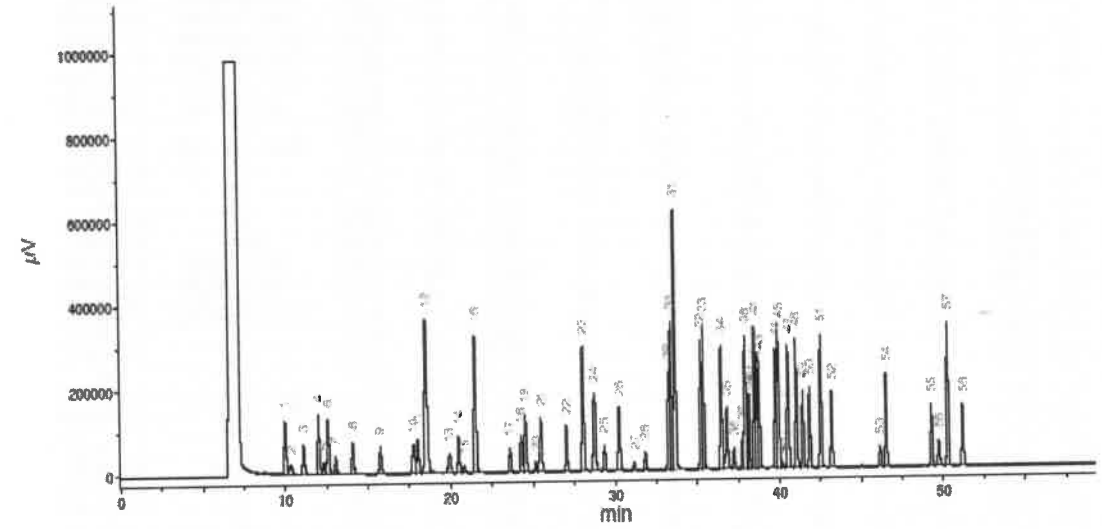
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	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)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	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)	MKCR8581	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	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000K	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)	06126PK	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)	5HBF6718V	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 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 240mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	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)	MKBW5137V	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	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	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 (7800mg/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 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	156-59-2	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 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-35-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/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 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	20 ppm (8h)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	107-06-2	50 ppm (8h)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
38. trans-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
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	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	630-20-6	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 (46mg/m3/8h) (skin)	or-rat 836mg/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-rat 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 (50mg/m3/8h)	or-rat 149.6mg/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 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 4900mg/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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-98-3	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	or-rat 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	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	106-57-8	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	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	1999.6	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	1999.6	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	1999.5	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000</										

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	10.33
3	1,1-Dichloroethane	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-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Helopropene	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
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: **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#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

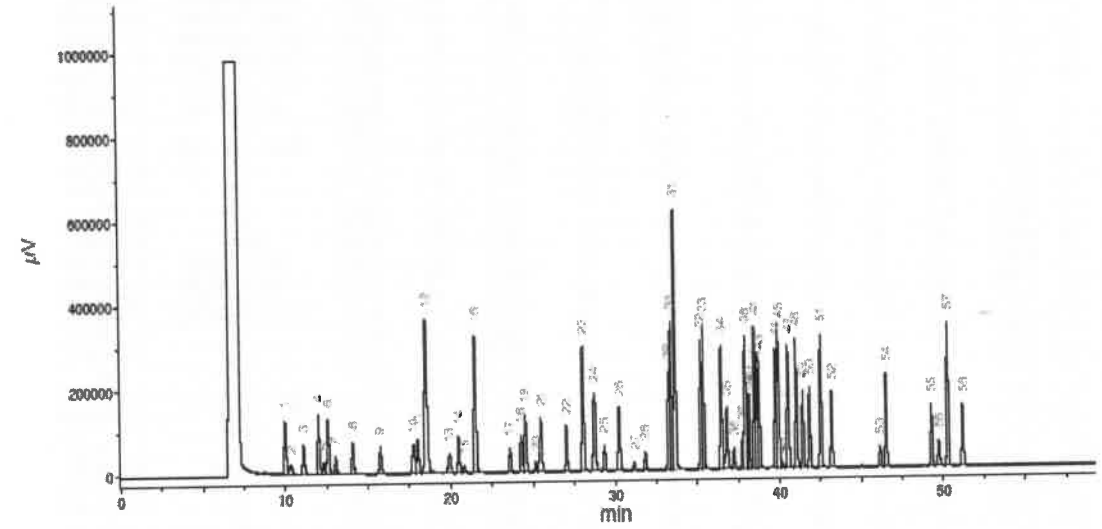
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	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)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	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	0.21058	0.21069	2001.1	6.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	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)	06126PK	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)	5HBF8718V	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 70mg/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 3480mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/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)	MKBW5137V	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 700mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	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 (7800mg/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 910mg/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 840mg/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	156-59-2	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 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	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	74-95-3	N/A	or-rat 105mg/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	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	584-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	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 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-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	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	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
38. trans-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
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 636mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/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	or-rat 2699mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	N/A	N/A
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 4900mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-61-6	N/A	or-rat 1390mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	99-06-6	N/A	N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	135-98-8	N/A	or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.0													

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	10.33
3	1,1-Dichloroethane	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-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.48
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-Butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
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, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
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 Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

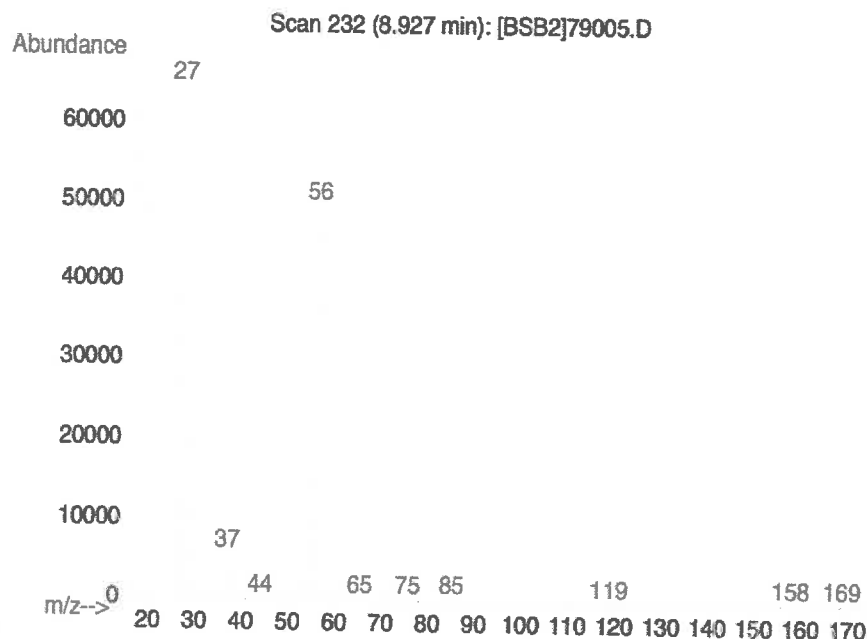
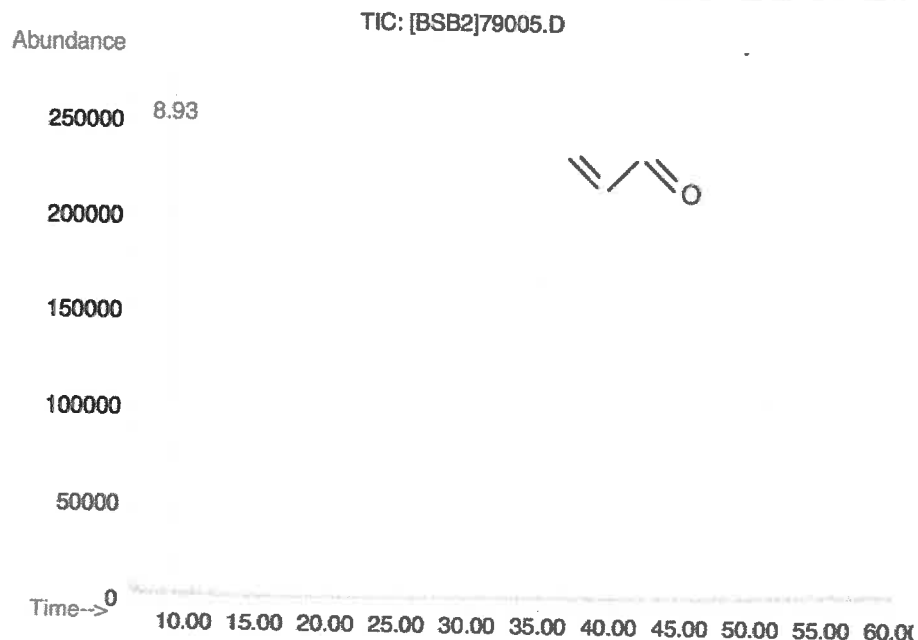
Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water
Lot#
072324Q

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

Expiration Date: 101424
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

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: GC/MSD-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

Dec 09/17/24

2 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

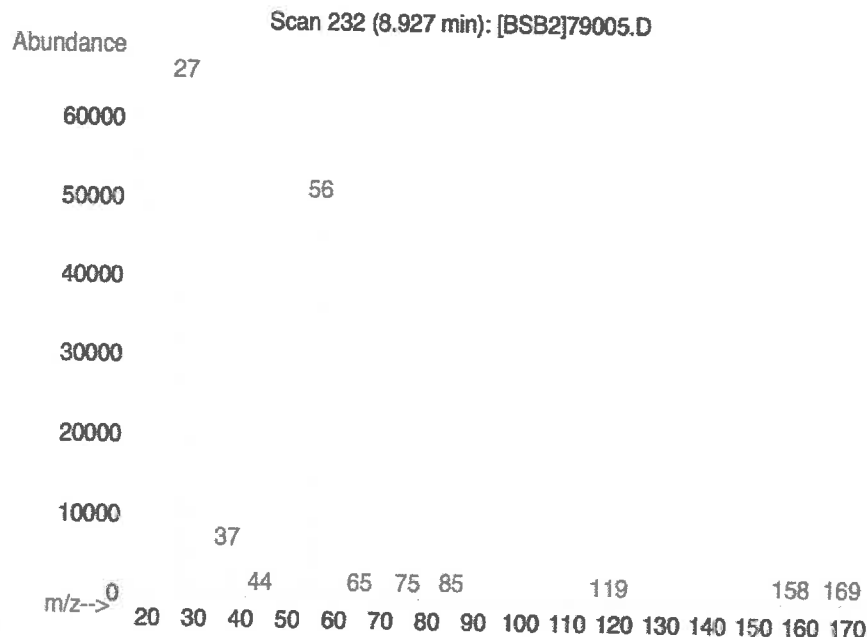
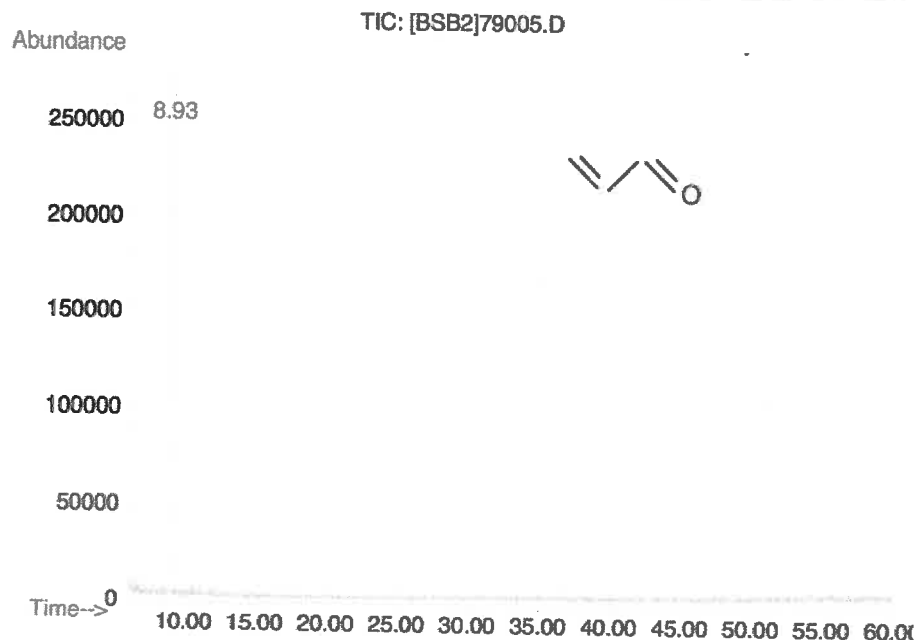
CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Justin Dippold</i>	
Formulated By: Justin Dippold	091424 DATE
<i>Pedro L. Rentas</i>	
Reviewed By: Pedro L. Rentas	091424 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	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.



- 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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

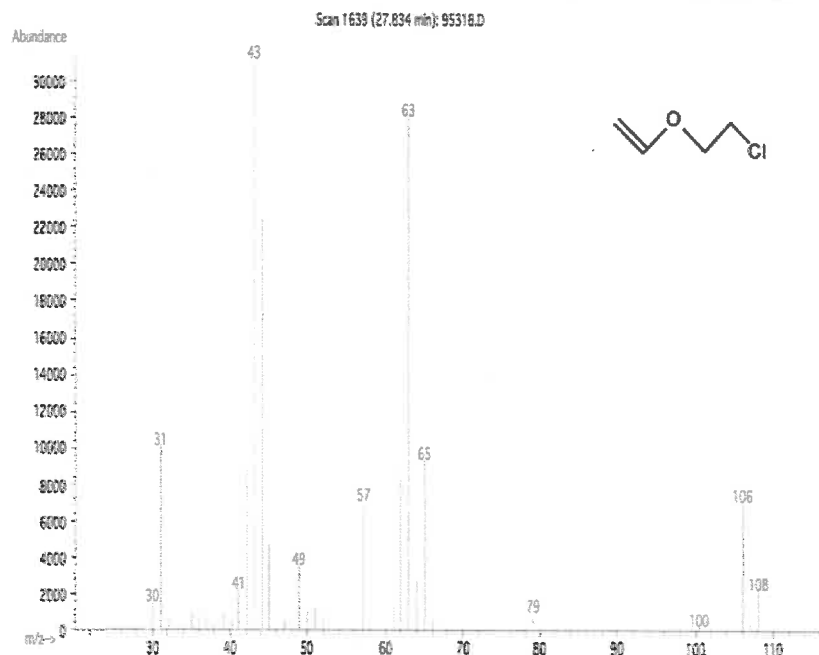
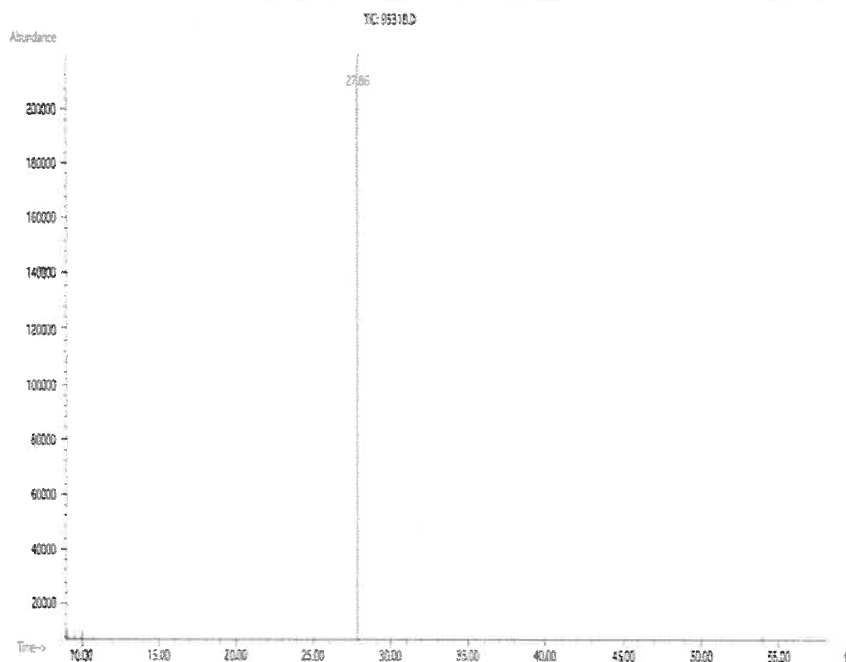
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.
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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	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



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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

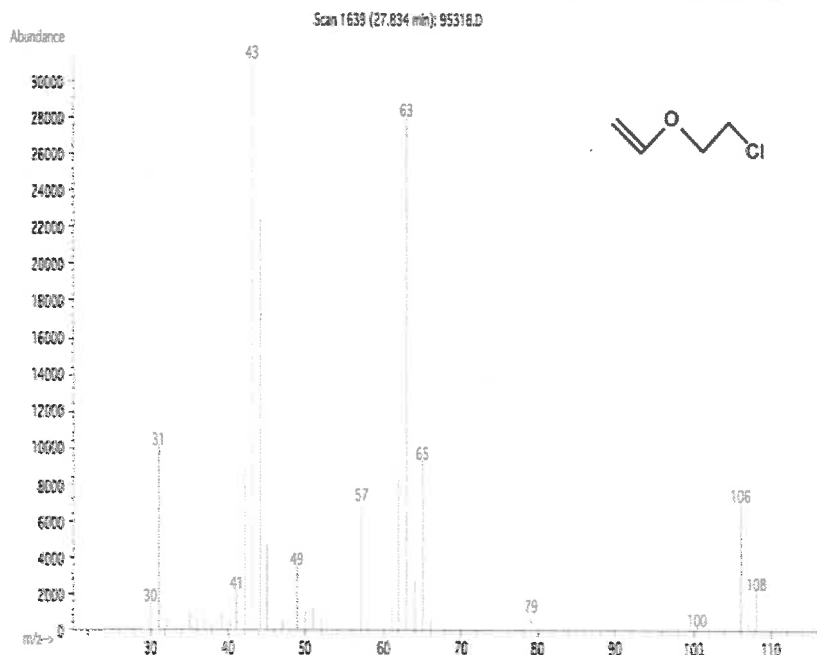
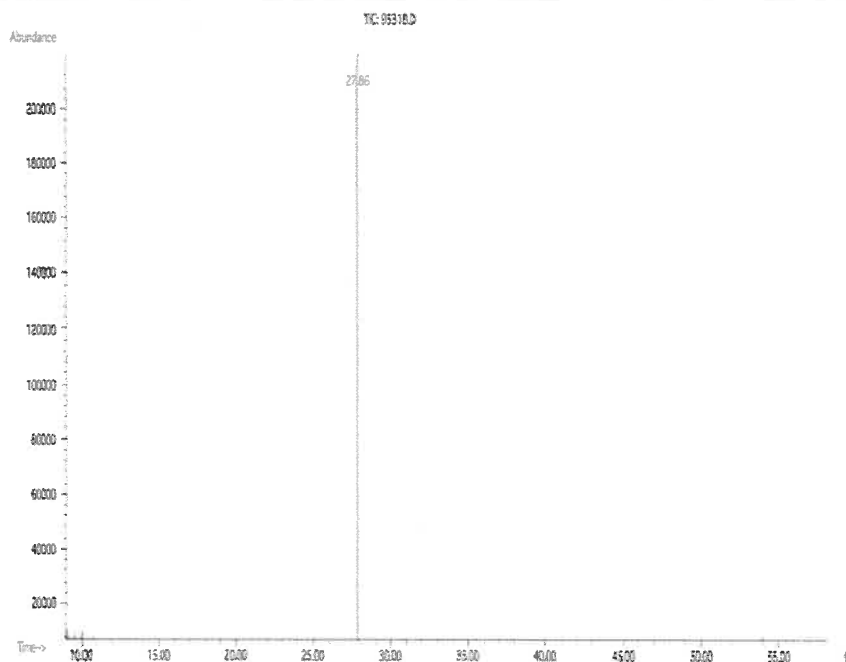
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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
	CAS#: 67-56-1	

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

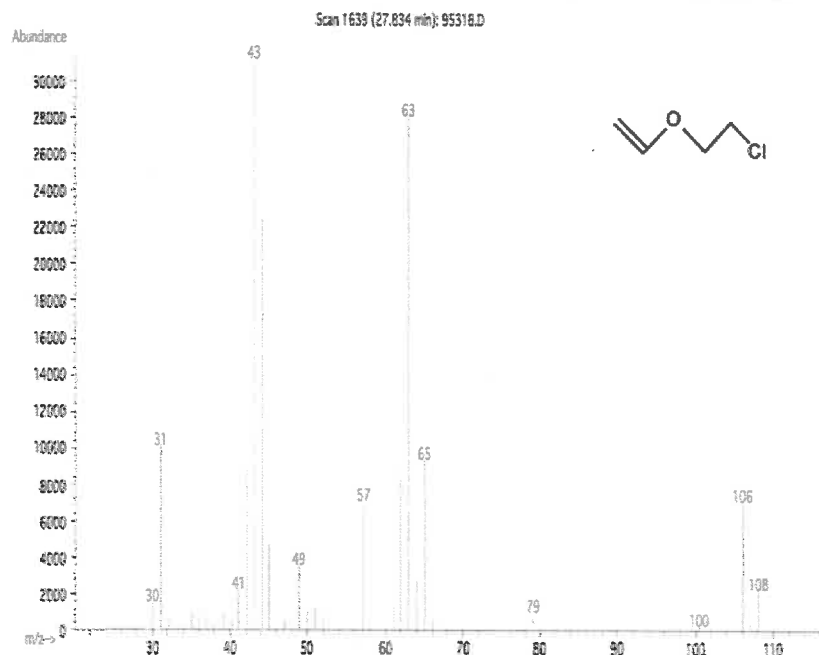
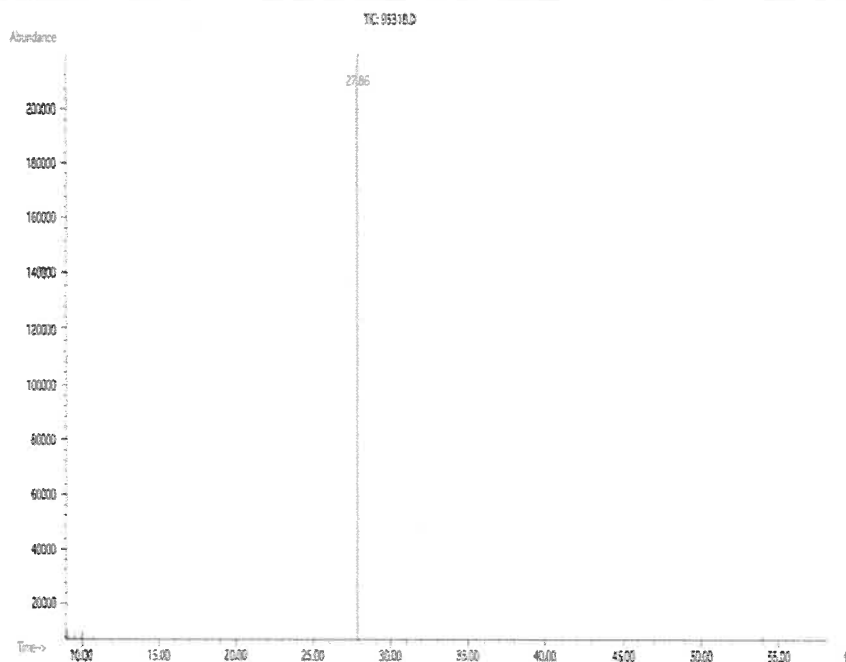
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.,
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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.
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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.
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Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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**

Weight(s) shown below were combined and diluted to (mL): **50.0**

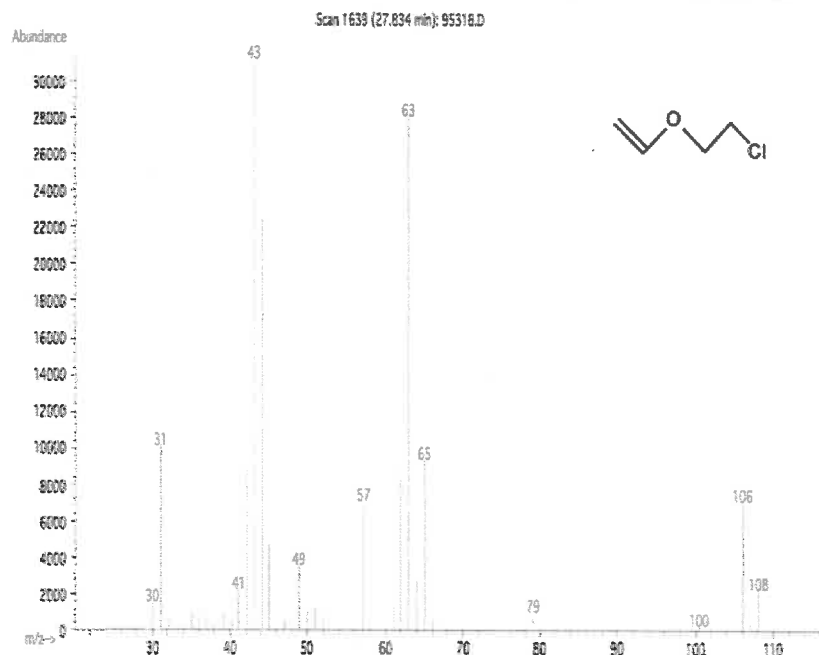
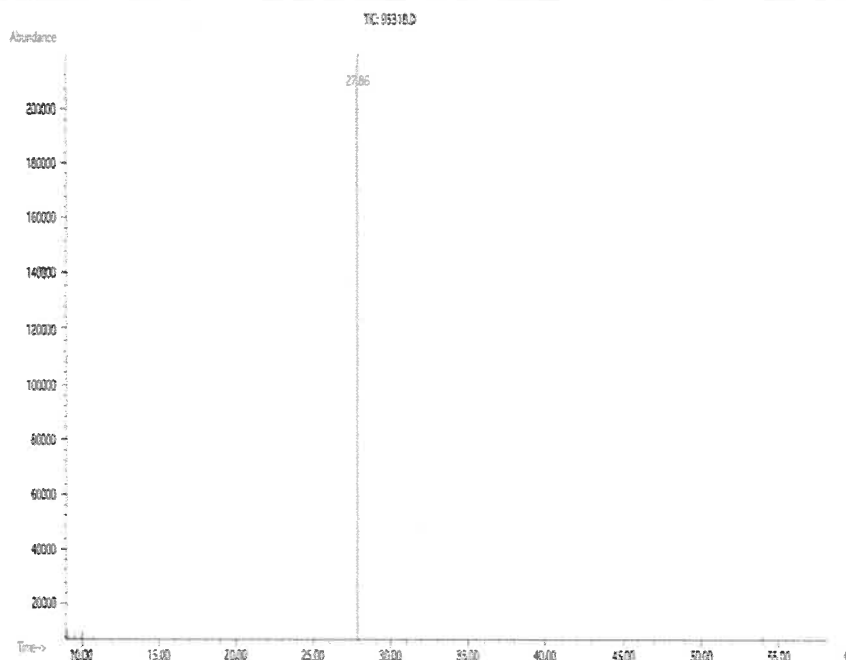
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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
	CAS#: 67-56-1	

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

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Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
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LD50 Oral - rat - 5,628 mg/kg
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LC50 15,400 mg/l - 96 h
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EC100 10,000.00 mg/l - 24 h

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Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (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.:** A0181905
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 : February 28, 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 SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	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)

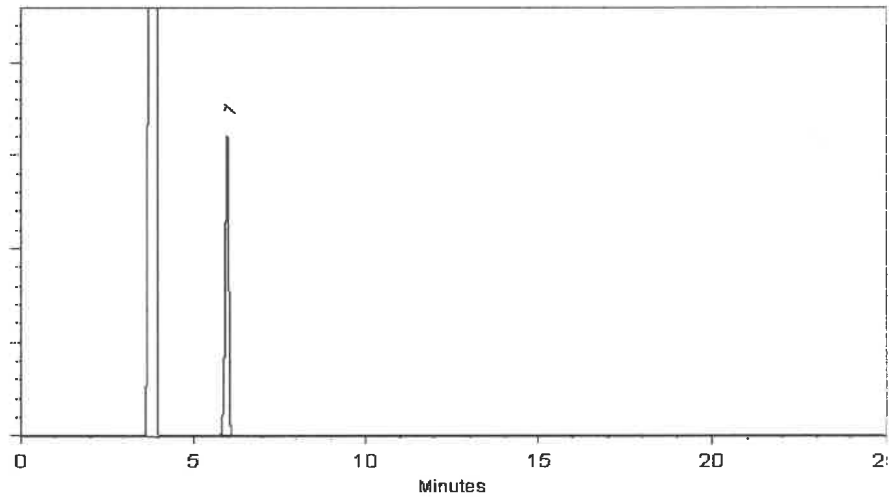
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

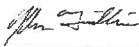
Inj. Temp:
200°C

Det. Temp:
250°C

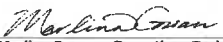
Det. Type:
FID



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.


John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022 Balance: B442140311


Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-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 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:

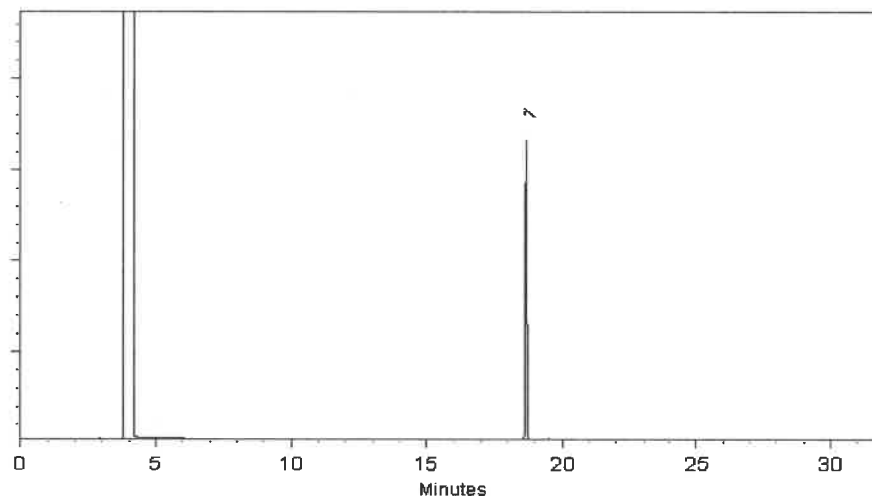
FID

Split Vent:

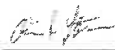
40 ml/min

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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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. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

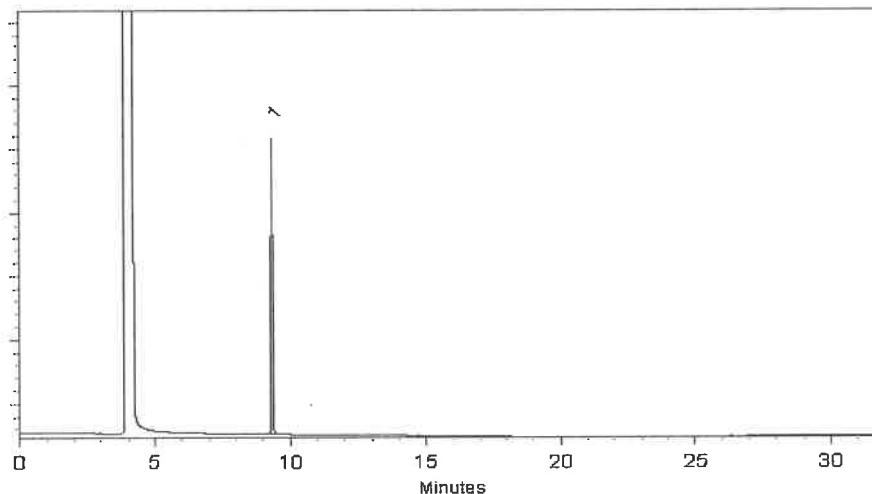
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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.
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Purity Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

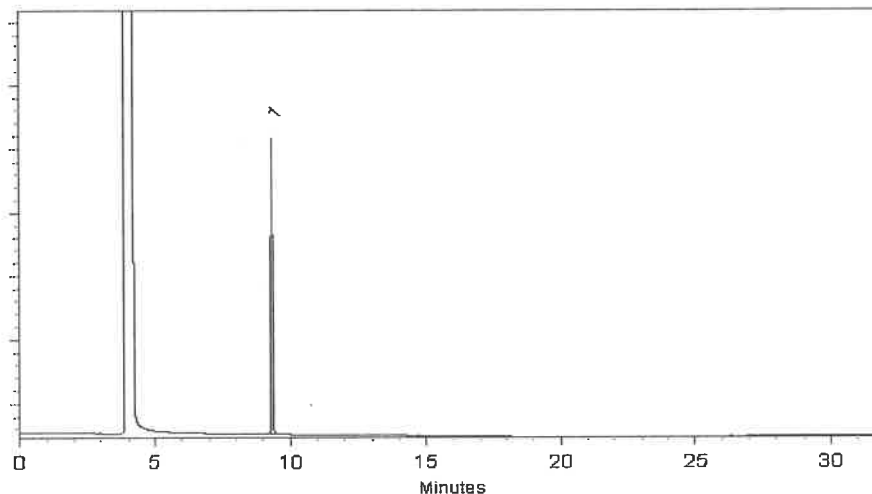
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

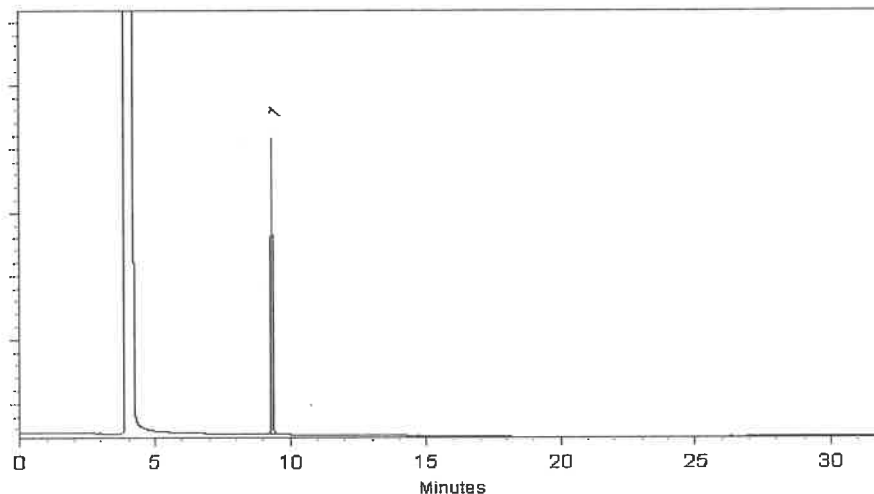
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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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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. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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:

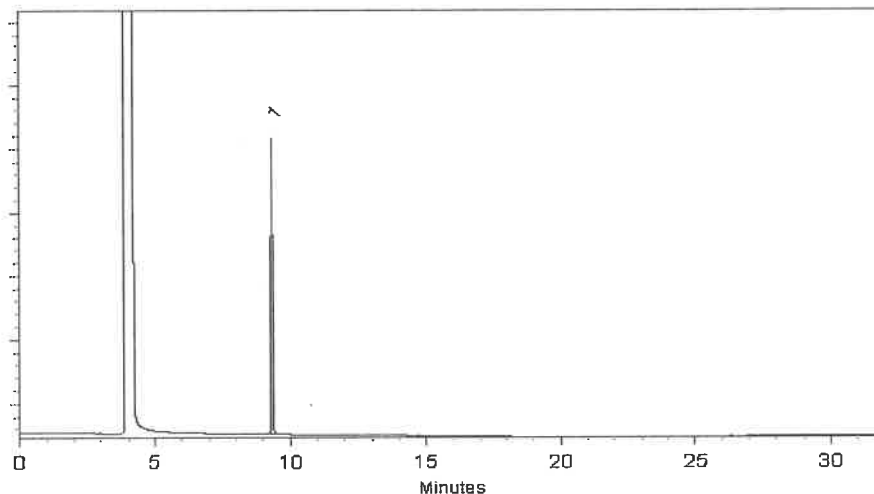
FID

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.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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. : 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.)

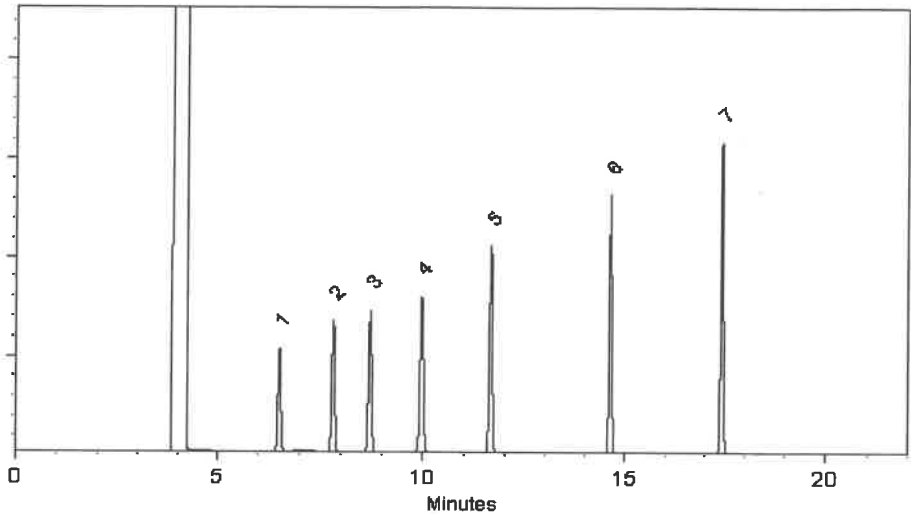
Inj. Temp:
200°C

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

Dylan Murphy
Dylan 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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

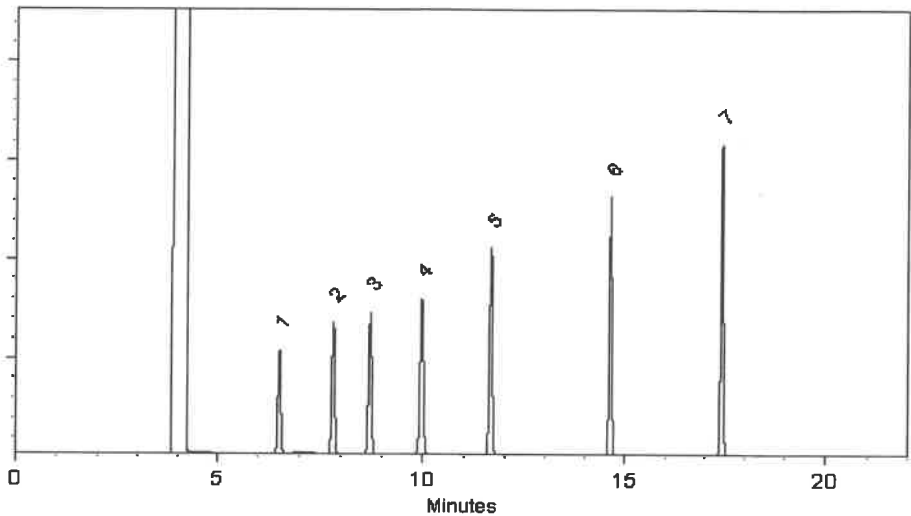
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

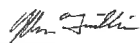
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of 11-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/ 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
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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:

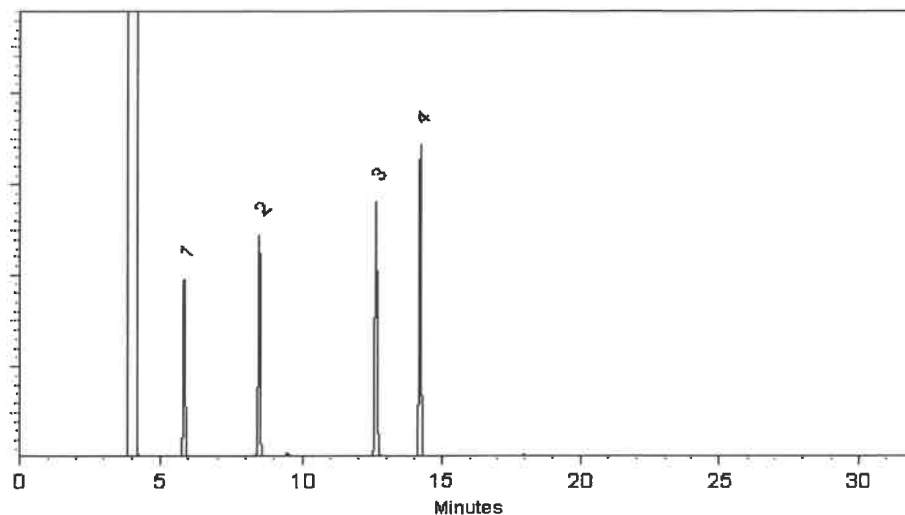
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

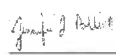


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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:

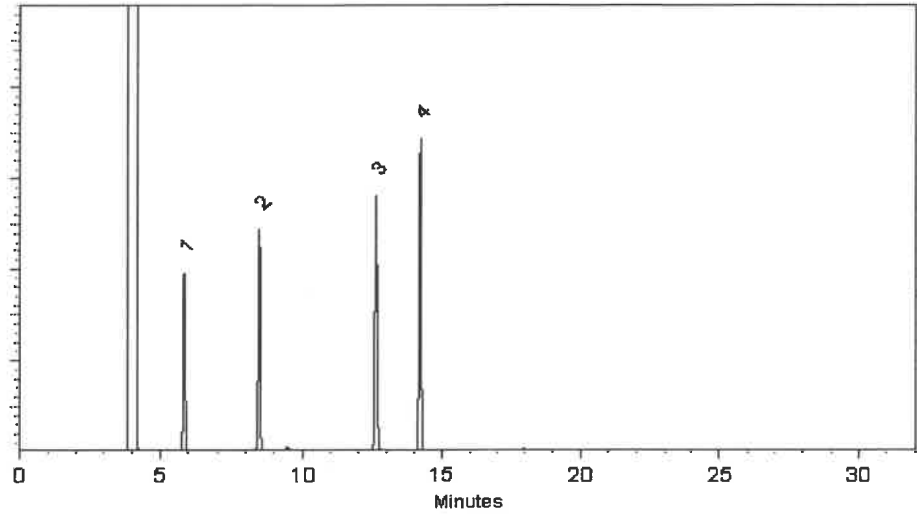
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

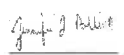


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

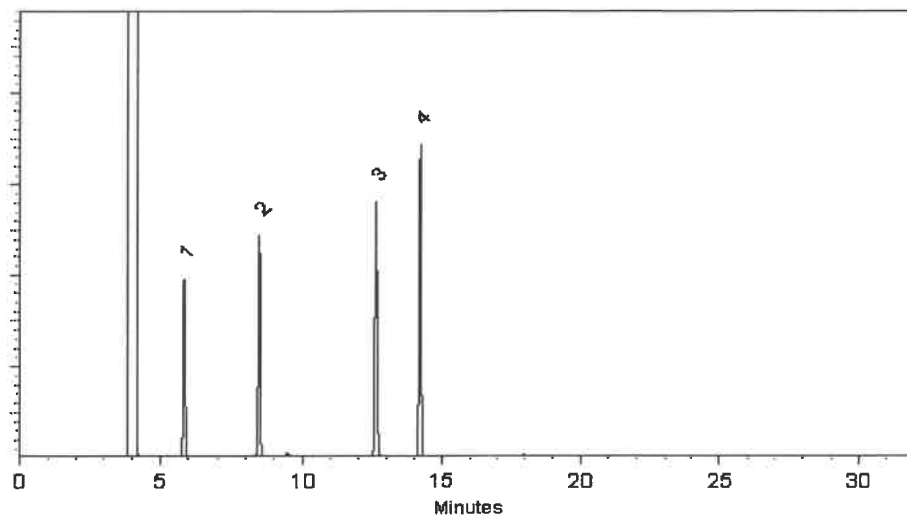
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

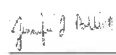


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

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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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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:

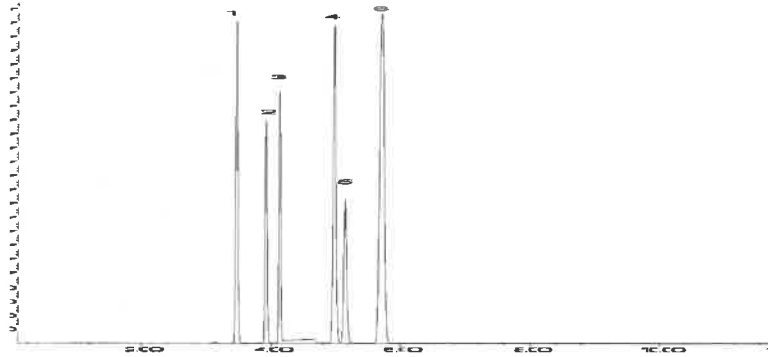
MSD

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:

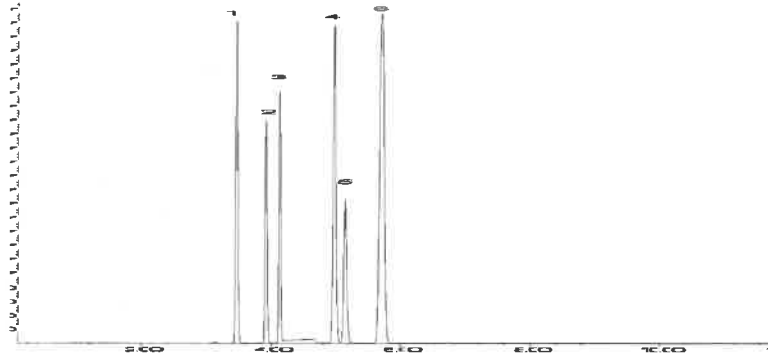
MSD

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/ 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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

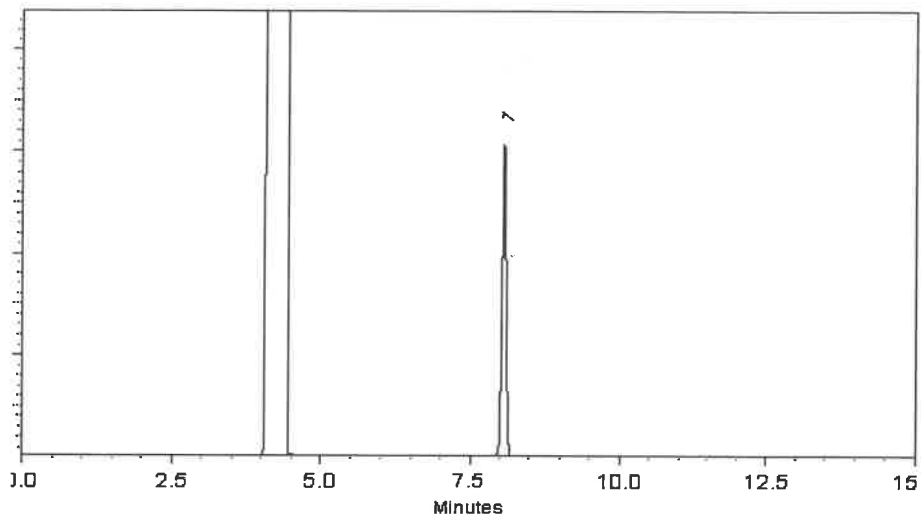
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/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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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14793 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.)

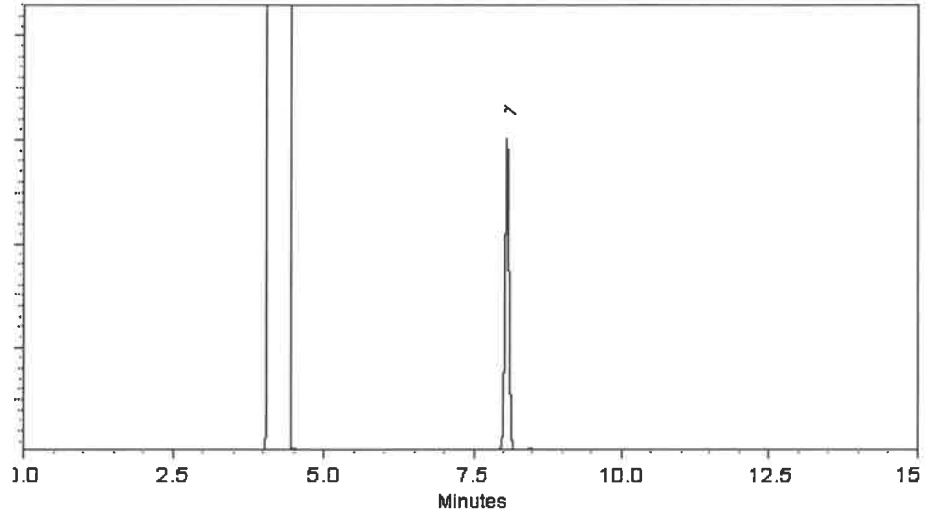
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

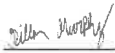
Inj. Vol
1µl



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 Pothos 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.
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- Purity values are rounded to the nearest whole number.

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- 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.

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
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For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
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600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: Q1249																					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: Tetra Tech ADDRESS: 4433 Corporation Lane Suite 300 CITY: Virginia Beach STATE: VA ZIP: 23462 ATTENTION: Ernie Wu PHONE: 757-466-4901 FAX: 757-461-4148		PROJECT NAME: NWIRP Bethpage PROJECT #: 112G08005-WE13 LOCATION: VPB-192 PROJECT MANAGER: Ernie Wu E-MAIL: ernie.wu@tetratech.com PHONE: 757-466-4901 FAX: 757-461-4148		BILL TO: SEE CONTRACT PO# ADDRESS: CITY: STATE: ZIP: ATTENTION: PHONE:																					
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ 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 _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOC(SW846-8260B)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">1,4 Dioxane (8270 SIM)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td> </tr> </table>		VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)									1	2	3	4	5	6	7	8	9	
VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)																								
1	2	3	4	5	6	7	8	9																	
				PRESERVATIVES																					
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP GRAB	SAMPLE COLLECTION DATE TIME	# of Bottles																				
1.	BP-VPB-192-GW-460-462	AQ		X 1/29/25 14:37	3																				
2.																									
3.																									
4.																									
5.																									
6.																									
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SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY																									
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.5° MeOH extraction requires an additional 4oz. Jar for percent solid Comments: Standard TAT q Ice in Cooler?: _____																						
	1/30/25 15:48																								
RELINQUISHED BY	DATE/TIME	RECEIVED BY																							
2.																									
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY																							
3.	1-30-25																								
Page <u>1</u> of <u>1</u>			SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight		Shipment Complete ☐ YES ☐ NO																				
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																									

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 : Q1249	TETR06	Order Date : 1/31/2025 10:38:00 AM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 1/30/2025 6:20:00 PM	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
Q1249-01	BP-VPB-192-460-462	Water	01/29/2025	14:37					
	BP-VPB-192-GW-460-462				VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By : CP

Date / Time : 1-31-25 11:40

Received By : [Signature]

Date / Time : 1-31-25 11:40

Storage Area : VOA Refridgerator Room

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Jan 15 01:41:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	202613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	329363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	298938	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	313645	95.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 191.800%#			
35) Dibromofluoromethane	8.159	113	236159	103.353	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 206.700%#			
50) Toluene-d8	10.565	98	881956	108.636	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 217.280%#			
62) 4-Bromofluorobenzene	12.847	95	313161	112.765	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 225.520%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	269023	98.065	ug/l	99
3) Chloromethane	2.359	50	275415	92.724	ug/l	98
4) Vinyl Chloride	2.512	62	282361	94.576	ug/l	99
5) Bromomethane	2.942	94	158888	88.105	ug/l	98
6) Chloroethane	3.112	64	176111	93.043	ug/l	99
7) Trichlorofluoromethane	3.494	101	423967	97.870	ug/l	100
8) Diethyl Ether	3.953	74	146889	98.154	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	239104	97.997	ug/l	99
10) Methyl Iodide	4.589	142	292983	104.856	ug/l	95
11) Tert butyl alcohol	5.512	59	173044	462.061	ug/l	99
12) 1,1-Dichloroethene	4.336	96	222117	102.146	ug/l	99
13) Acrolein	4.171	56	275350	538.600	ug/l	99
14) Allyl chloride	5.018	41	349717	99.111	ug/l	98
15) Acrylonitrile	5.712	53	585370	492.095	ug/l	99
16) Acetone	4.418	43	483221	457.268	ug/l	96
17) Carbon Disulfide	4.712	76	630294	94.140	ug/l	100
18) Methyl Acetate	5.012	43	304226	94.674	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	743008	105.230	ug/l	100
20) Methylene Chloride	5.271	84	254912	97.440	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	231503	99.618	ug/l	97
22) Diisopropyl ether	6.665	45	820871	104.812	ug/l	99
23) Vinyl Acetate	6.594	43	3029568	550.850	ug/l	99
24) 1,1-Dichloroethane	6.565	63	471831	98.803	ug/l	99
25) 2-Butanone	7.477	43	764979	491.912	ug/l	98
26) 2,2-Dichloropropane	7.482	77	388140	100.530	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	280197	102.367	ug/l	99
28) Bromochloromethane	7.806	49	214796	96.679	ug/l	100
29) Tetrahydrofuran	7.830	42	503459	510.635	ug/l	99
30) Chloroform	7.959	83	484941	98.253	ug/l	100
31) Cyclohexane	8.253	56	398641	96.041	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	426782	98.578	ug/l	98
36) 1,1-Dichloropropene	8.365	75	342961	106.945	ug/l	100
37) Ethyl Acetate	7.553	43	326802	100.961	ug/l	97
38) Carbon Tetrachloride	8.359	117	378390	103.065	ug/l	97
39) Methylcyclohexane	9.594	83	371734	123.354	ug/l	99
40) Benzene	8.600	78	1021393	106.001	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085438.D
 Acq On : 14 Jan 2025 14:56
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Jan 15 01:41:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	184326	109.454	ug/l	96
42) 1,2-Dichloroethane	8.665	62	374938	103.314	ug/l	100
43) Isopropyl Acetate	8.682	43	549969	106.035	ug/l	100
44) Trichloroethene	9.347	130	238296	106.242	ug/l	96
45) 1,2-Dichloropropane	9.618	63	256964	104.405	ug/l	97
46) Dibromomethane	9.706	93	180990	101.913	ug/l	99
47) Bromodichloromethane	9.882	83	388499	107.377	ug/l	98
48) Methyl methacrylate	9.676	41	267689	114.685	ug/l	99
49) 1,4-Dioxane	9.688	88	83879	2133.992	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	1643800	546.159	ug/l	100
52) Toluene	10.623	92	634743	113.689	ug/l	99
53) t-1,3-Dichloropropene	10.829	75	391238	114.424	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	410403	112.369	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	229522	103.879	ug/l	98
56) Ethyl methacrylate	10.870	69	383663	101.029	ug/l	99
57) 1,3-Dichloropropane	11.159	76	412886	107.469	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	848636	605.243	ug/l	100
59) 2-Hexanone	11.194	43	1178831	556.643	ug/l	99
60) Dibromochloromethane	11.353	129	283361	106.227	ug/l	99
61) 1,2-Dibromoethane	11.465	107	230104	104.623	ug/l	98
64) Tetrachloroethene	11.100	164	209870	102.980	ug/l	98
65) Chlorobenzene	11.888	112	677679	103.482	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	241593	100.517	ug/l	99
67) Ethyl Benzene	11.959	91	1239080	116.169	ug/l	99
68) m/p-Xylenes	12.070	106	927244	235.219	ug/l	99
69) o-Xylene	12.394	106	441279	117.135	ug/l	100
70) Styrene	12.406	104	760136	121.919	ug/l	99
71) Bromoform	12.576	173	186124	108.227	ug/l #	99
73) Isopropylbenzene	12.694	105	1146752	116.221	ug/l	100
74) N-amyl acetate	12.488	43	489217	110.308	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	327767	94.039	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	446237	150.413	ug/l	47
77) Bromobenzene	12.976	156	268616	104.200	ug/l	97
78) n-propylbenzene	13.029	91	1385353	118.600	ug/l	100
79) 2-Chlorotoluene	13.123	91	822258	108.767	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	953066	116.938	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	122508	111.544	ug/l	87
82) 4-Chlorotoluene	13.217	91	832317	110.574	ug/l	99
83) tert-Butylbenzene	13.435	119	797069	116.457	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	971729	119.625	ug/l	100
85) sec-Butylbenzene	13.611	105	1143885	120.587	ug/l	100
86) p-Isopropyltoluene	13.723	119	960747	100.111	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	502960	105.943	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	498709	101.341	ug/l	97
89) n-Butylbenzene	14.053	91	842368	123.781	ug/l	98
90) Hexachloroethane	14.329	117	188541	104.405	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	470919	99.445	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	63846	100.313	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	250787	113.946	ug/l	99
94) Hexachlorobutadiene	15.500	225	112899	96.619	ug/l	99
95) Naphthalene	15.635	128	756816	115.234	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	238860	107.256	ug/l	100

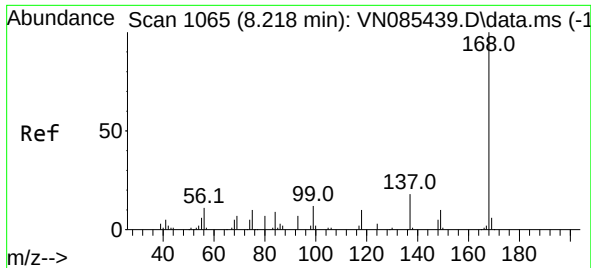
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Data File : VN085438.D
Acq On : 14 Jan 2025 14:56
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jan 15 01:41:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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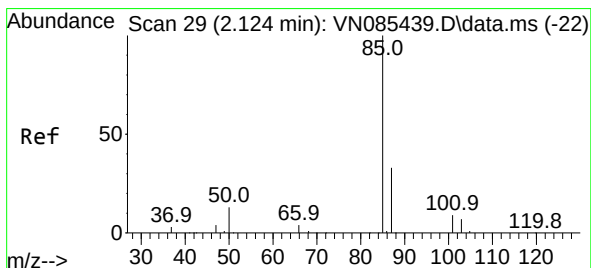
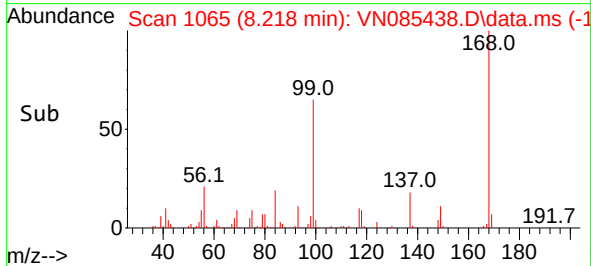
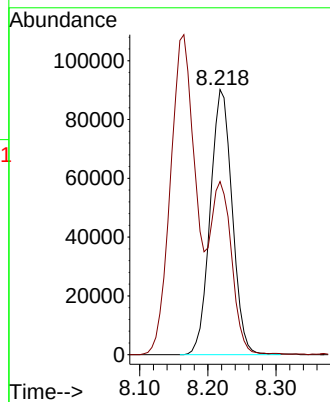
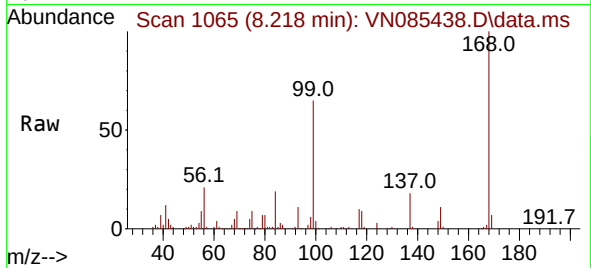
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

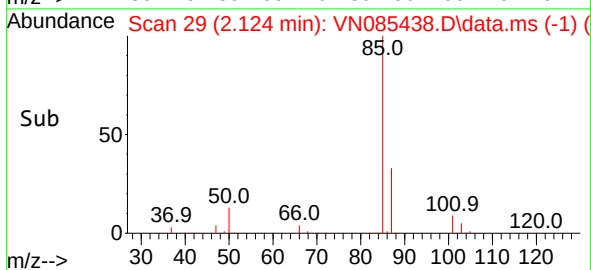
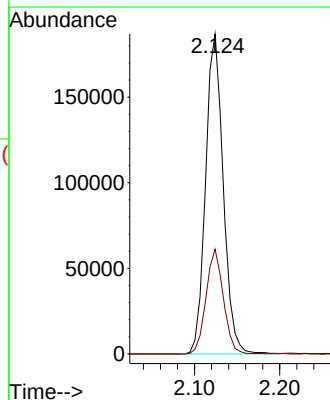
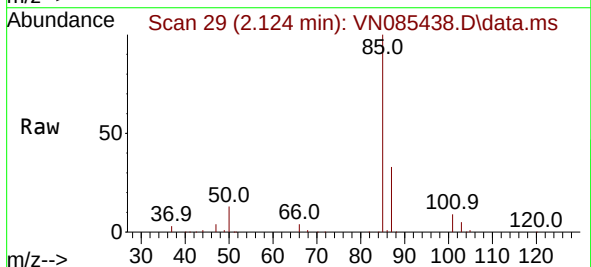
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

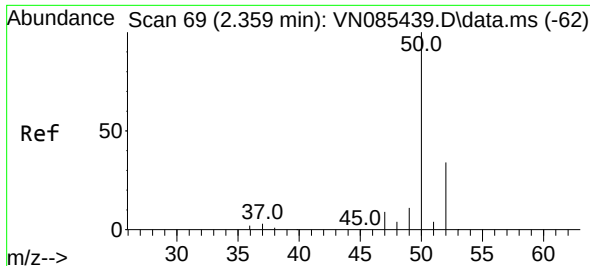
Tgt Ion:168 Resp: 202613
Ion Ratio Lower Upper
168 100
99 64.9 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 98.065 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 85 Resp: 269023
Ion Ratio Lower Upper
85 100
87 32.7 16.7 50.1

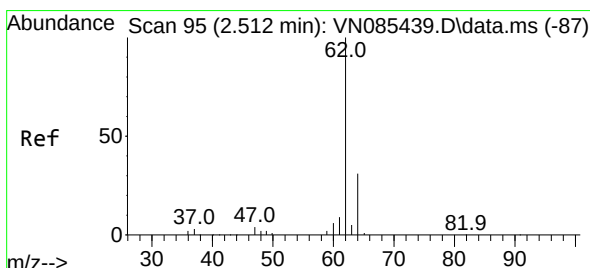
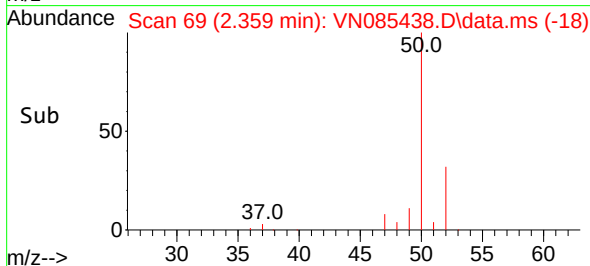
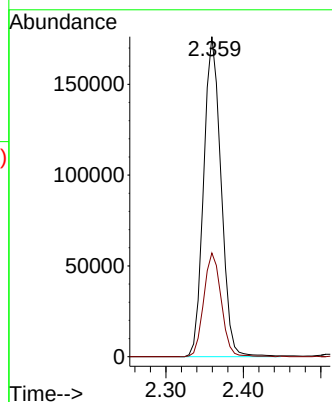
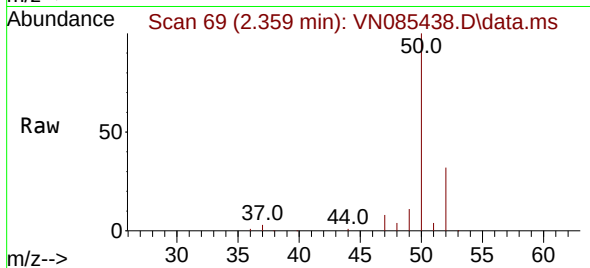




#3
Chloromethane
Concen: 92.724 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

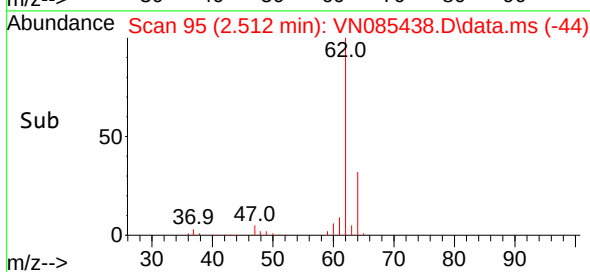
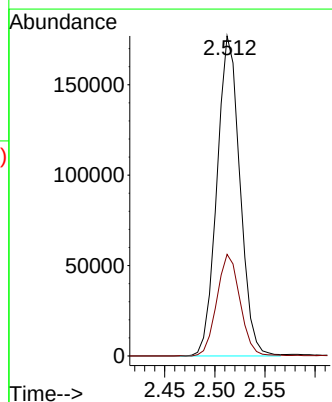
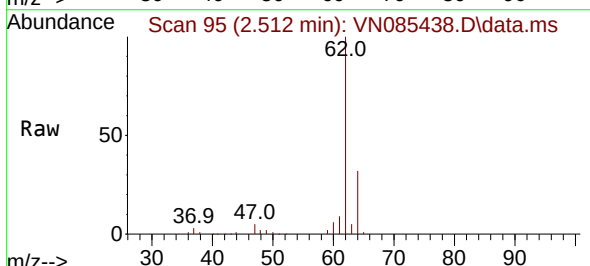
Instrument :
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ClientSampleId :
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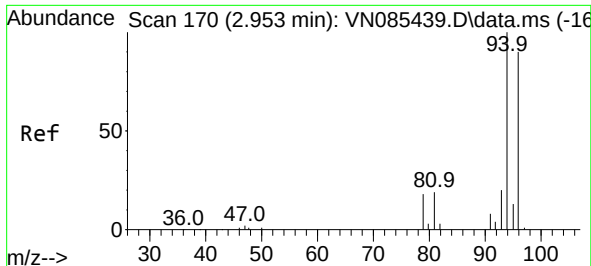
Tgt Ion: 50 Resp: 275415
Ion Ratio Lower Upper
50 100
52 32.4 27.0 40.6



#4
Vinyl Chloride
Concen: 94.576 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 282361
Ion Ratio Lower Upper
62 100
64 31.6 24.8 37.2

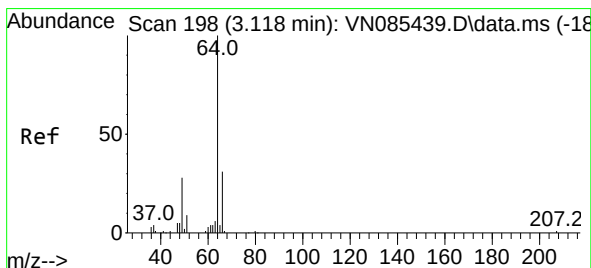
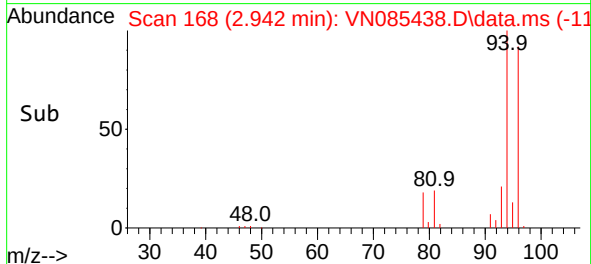
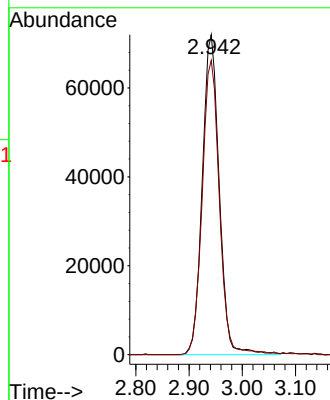
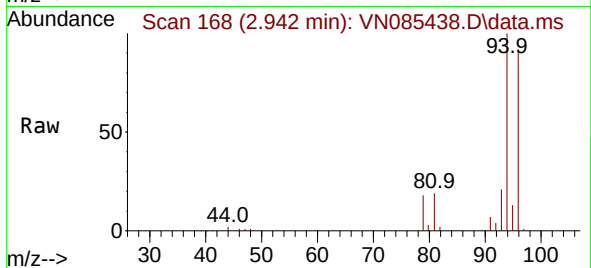




#5
Bromomethane
Concen: 88.105 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

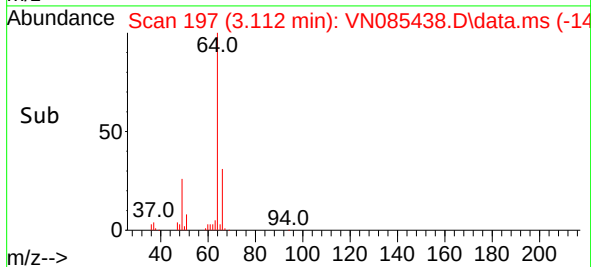
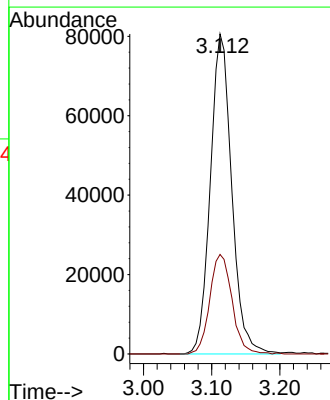
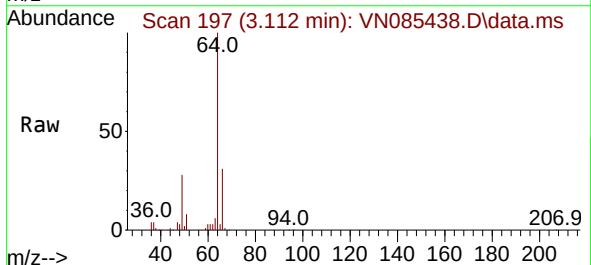
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

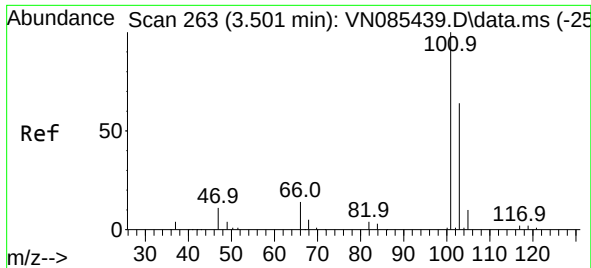
Tgt Ion: 94 Resp: 158888
Ion Ratio Lower Upper
94 100
96 91.9 71.8 107.6



#6
Chloroethane
Concen: 93.043 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 64 Resp: 176111
Ion Ratio Lower Upper
64 100
66 31.1 24.6 36.8

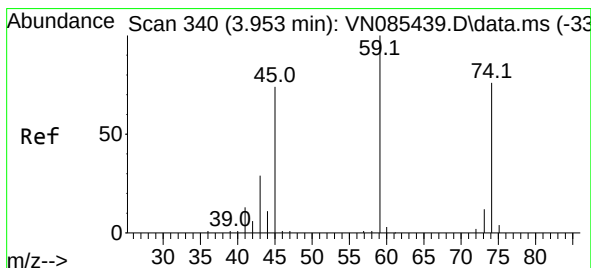
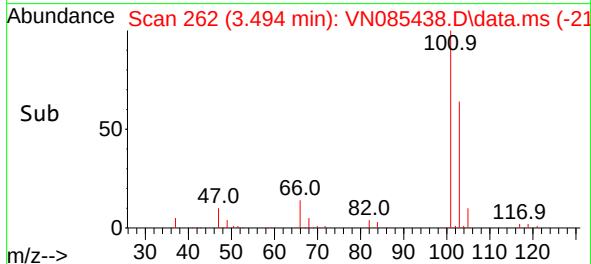
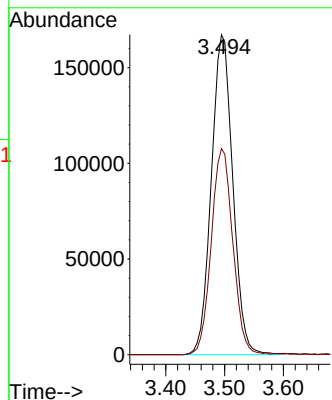
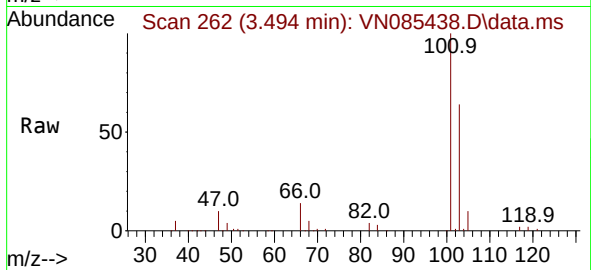




#7
 Trichlorofluoromethane
 Concen: 97.870 ug/l
 RT: 3.494 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

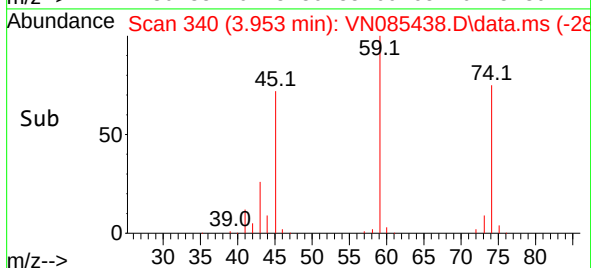
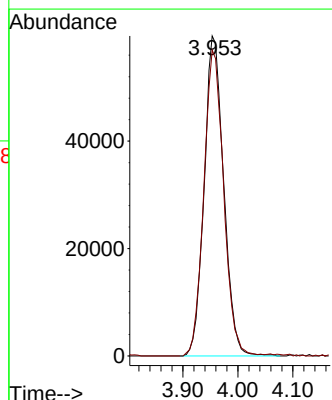
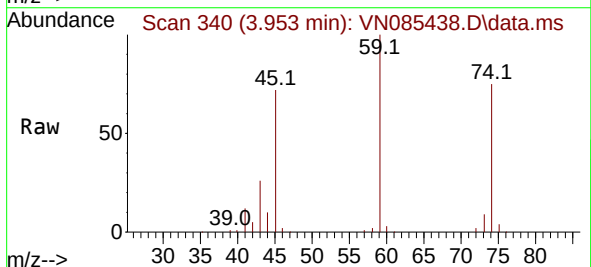
Instrument :
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 ClientSampleId :
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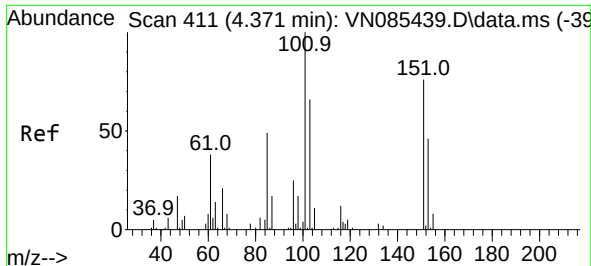
Tgt Ion:101 Resp: 423967
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.4 77.2



#8
 Diethyl Ether
 Concen: 98.154 ug/l
 RT: 3.953 min Scan# 340
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion: 74 Resp: 146889
 Ion Ratio Lower Upper
 74 100
 45 97.4 49.7 149.1

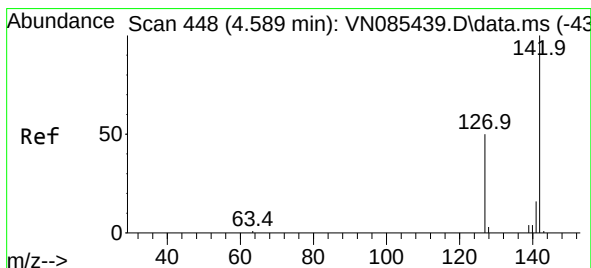
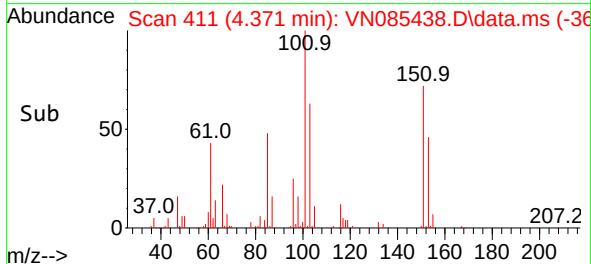
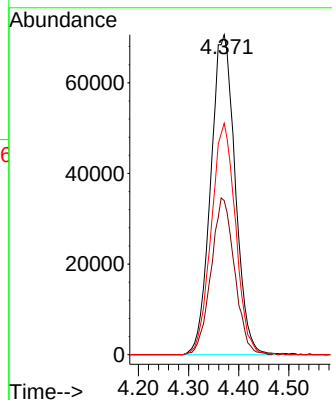
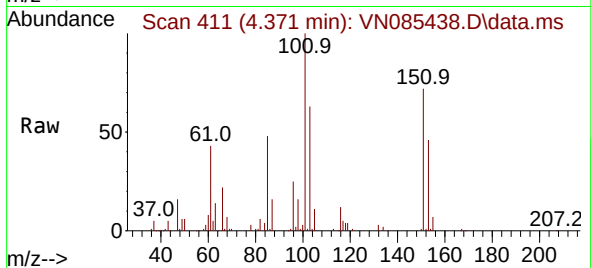




#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.997 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

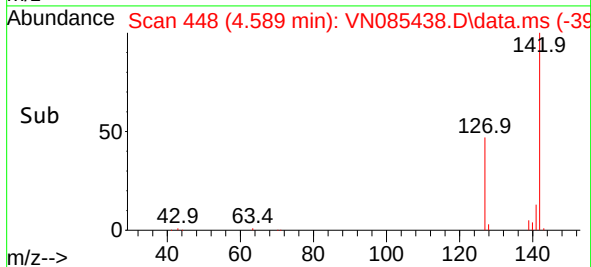
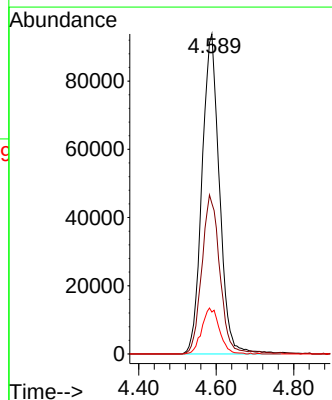
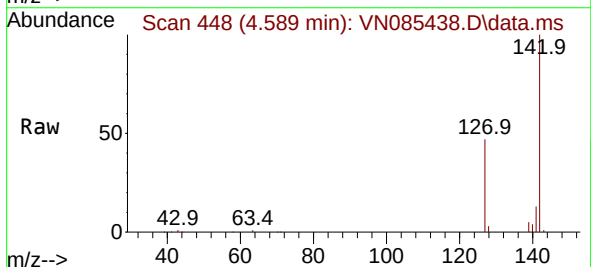
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MSVOA_N
ClientSampleId :
VSTDICC100

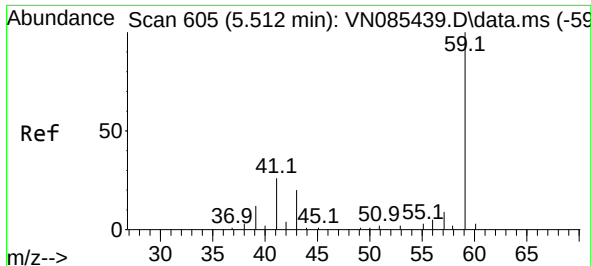
Tgt Ion:101 Resp: 239104
Ion Ratio Lower Upper
101 100
85 47.1 37.8 56.8
151 71.8 58.8 88.2



#10
Methyl Iodide
Concen: 104.856 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:142 Resp: 292983
Ion Ratio Lower Upper
142 100
127 47.1 40.3 60.5
141 13.1 12.8 19.2

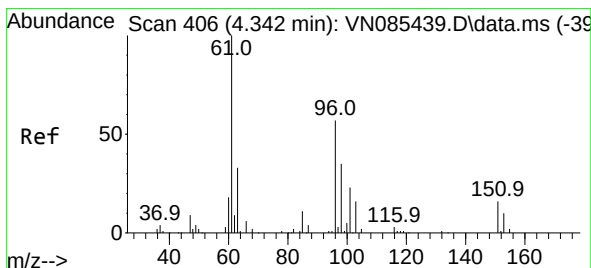
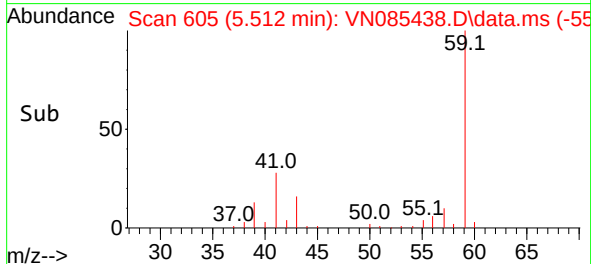
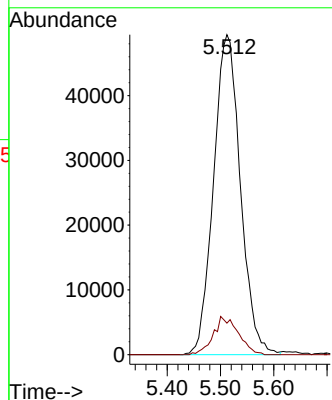
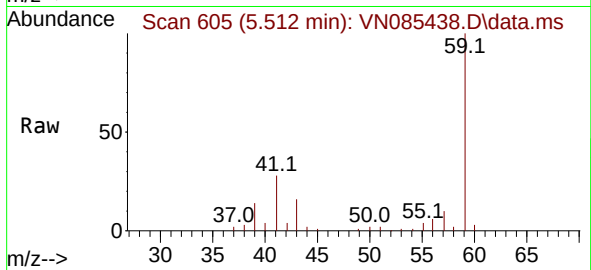




#11
Tert butyl alcohol
Concen: 462.061 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

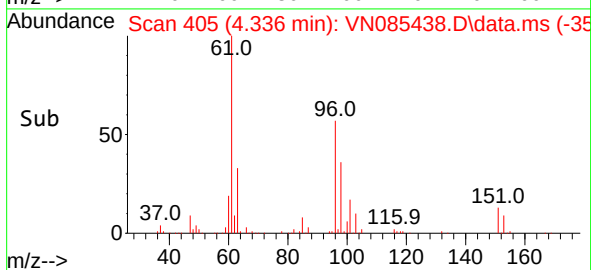
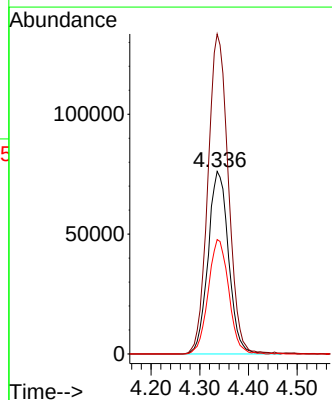
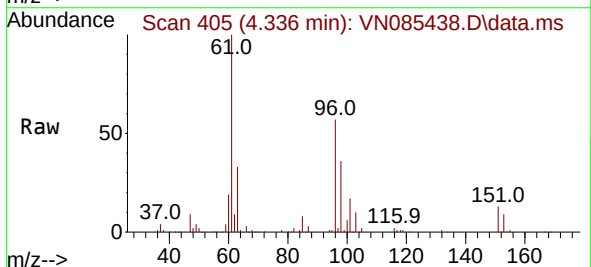
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

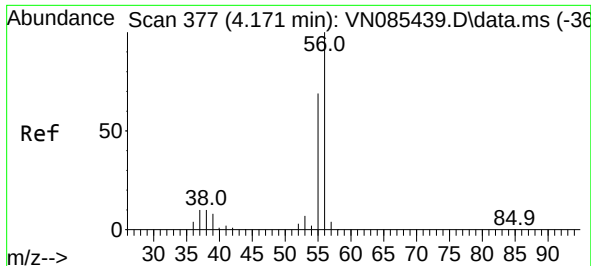
Tgt Ion: 59 Resp: 173044
Ion Ratio Lower Upper
59 100
57 11.1 8.6 13.0



#12
1,1-Dichloroethene
Concen: 102.146 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 96 Resp: 222117
Ion Ratio Lower Upper
96 100
61 175.3 141.0 211.4
98 62.7 49.0 73.6

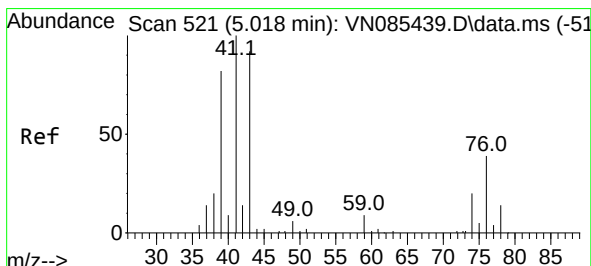
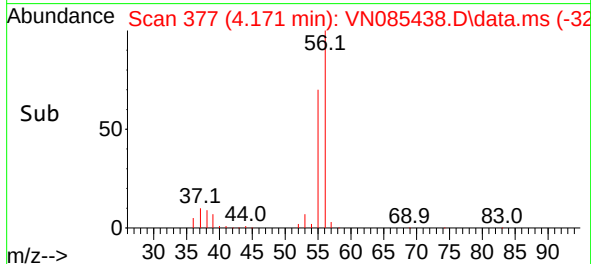
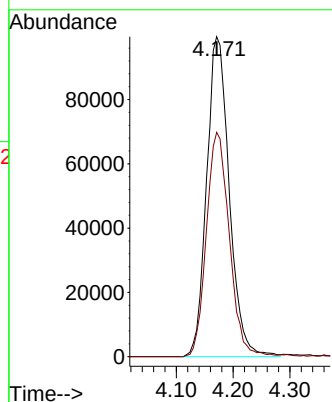
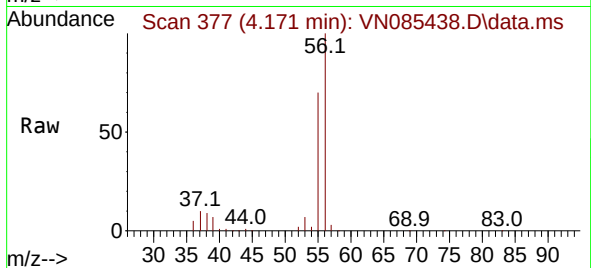




#13
Acrolein
Concen: 538.600 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

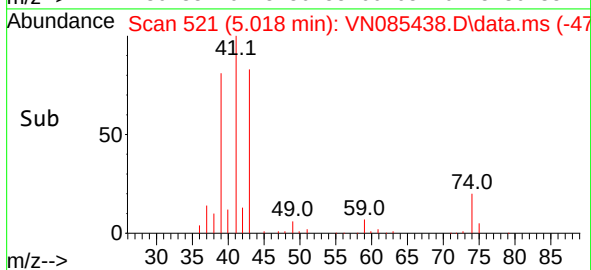
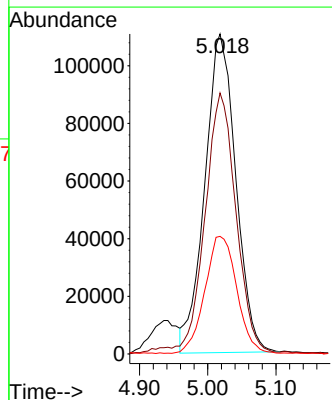
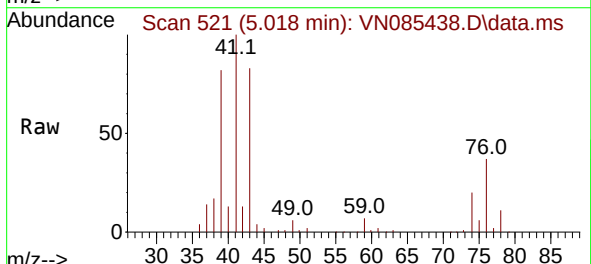
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

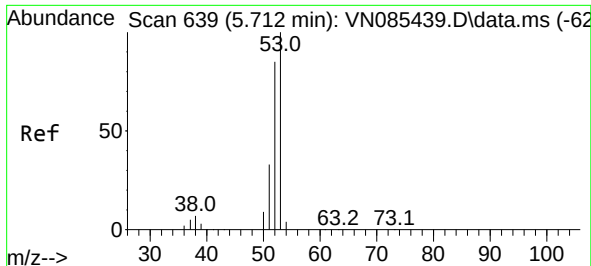
Tgt Ion: 56 Resp: 275350
Ion Ratio Lower Upper
56 100
55 71.1 56.3 84.5



#14
Allyl chloride
Concen: 99.111 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 349717
Ion Ratio Lower Upper
41 100
39 83.3 64.4 96.6
76 37.9 30.5 45.7

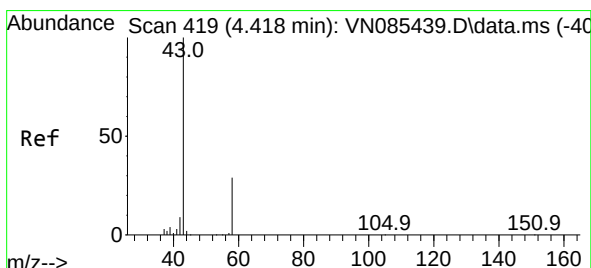
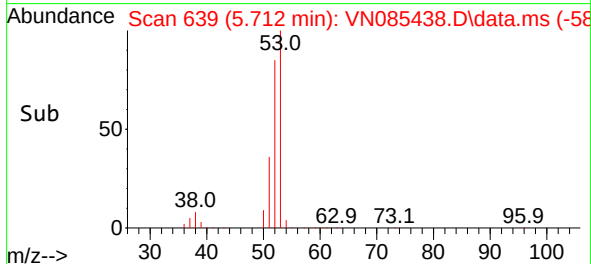
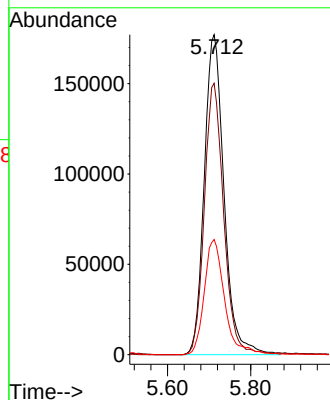
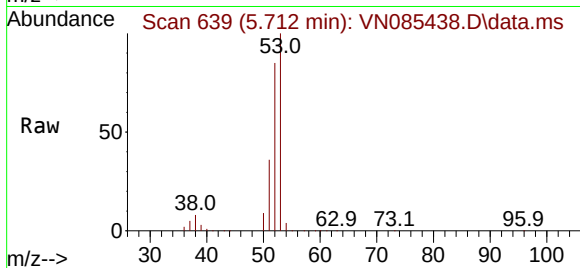




#15
Acrylonitrile
Concen: 492.095 ug/l
RT: 5.712 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

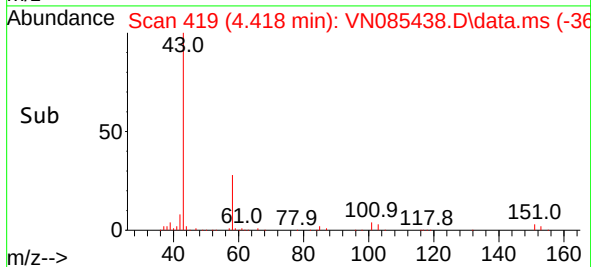
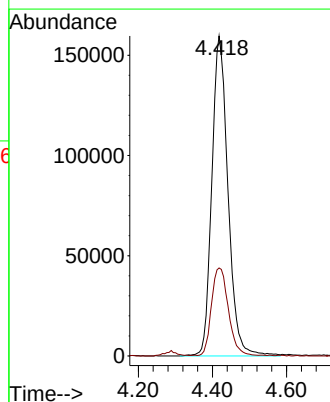
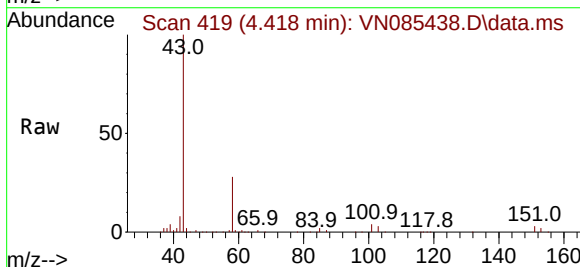
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

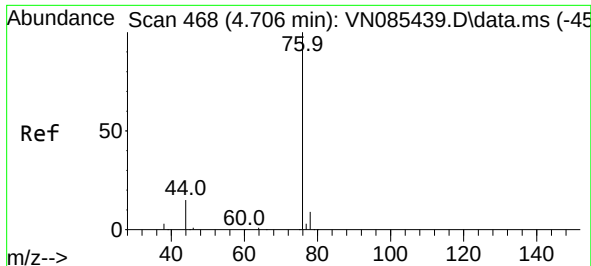
Tgt Ion: 53 Resp: 585370
Ion Ratio Lower Upper
53 100
52 83.0 65.5 98.3
51 37.1 29.8 44.8



#16
Acetone
Concen: 457.268 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 483221
Ion Ratio Lower Upper
43 100
58 27.3 23.8 35.6

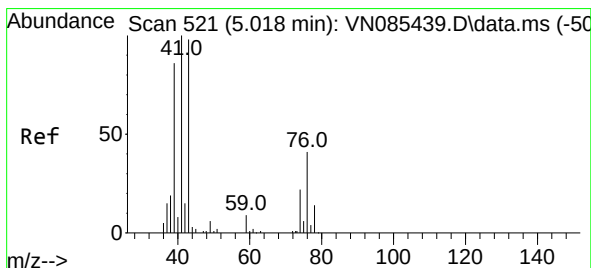
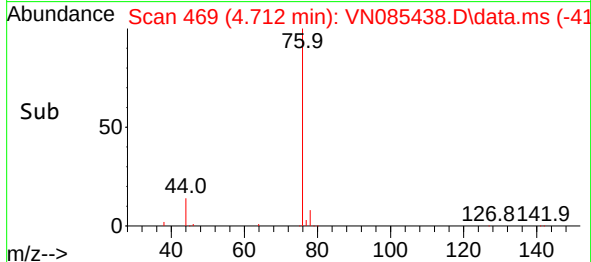
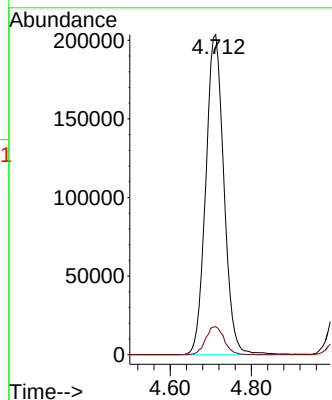
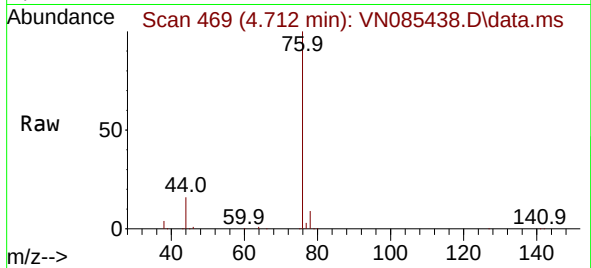




#17
Carbon Disulfide
Concen: 94.140 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

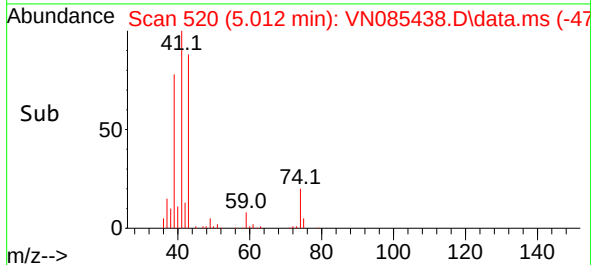
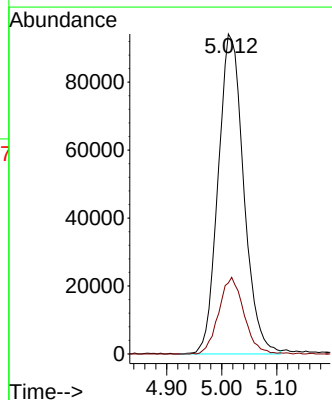
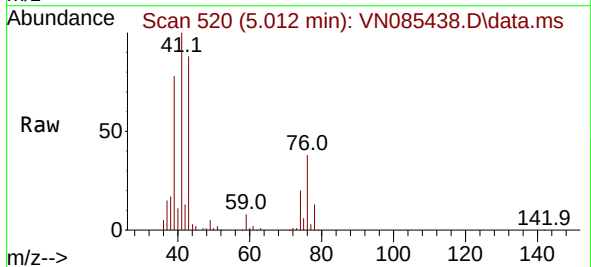
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

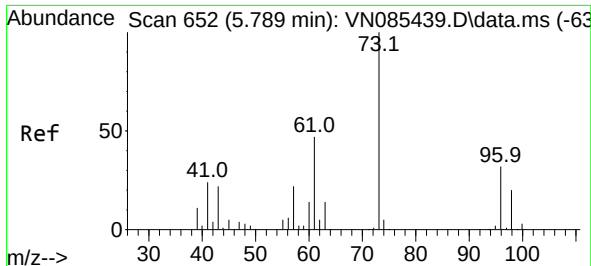
Tgt Ion: 76 Resp: 630294
Ion Ratio Lower Upper
76 100
78 8.7 6.9 10.3



#18
Methyl Acetate
Concen: 94.674 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 304226
Ion Ratio Lower Upper
43 100
74 23.6 18.6 28.0

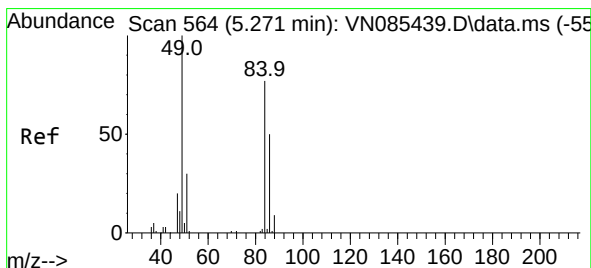
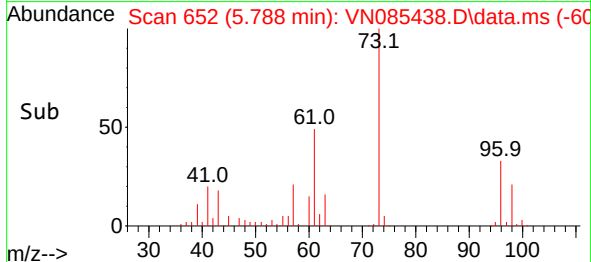
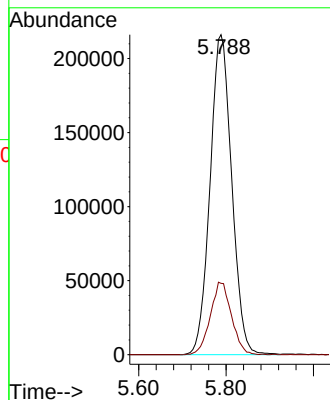
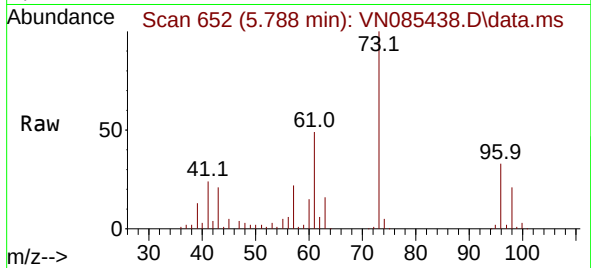




#19
Methyl tert-butyl Ether
Concen: 105.230 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

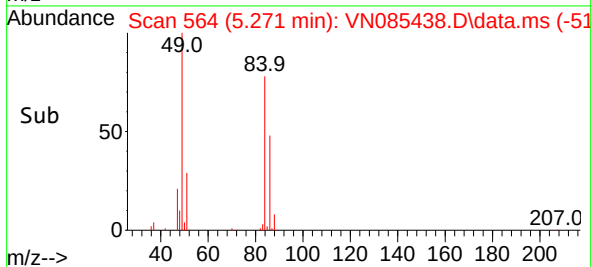
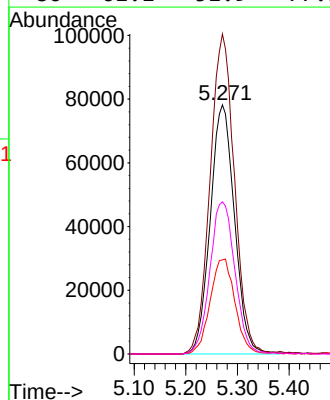
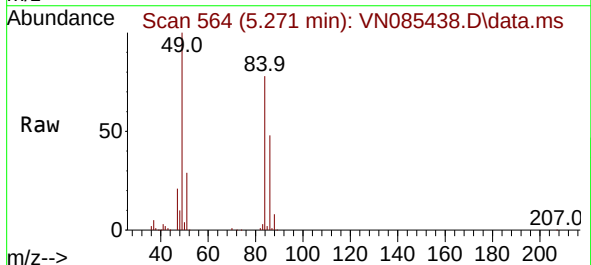
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

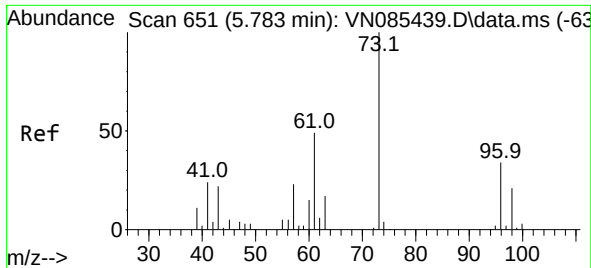
Tgt Ion: 73 Resp: 743008
Ion Ratio Lower Upper
73 100
57 22.3 17.8 26.8



#20
Methylene Chloride
Concen: 97.440 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 84 Resp: 254912
Ion Ratio Lower Upper
84 100
49 128.5 104.1 156.1
51 37.8 31.0 46.4
86 61.1 51.9 77.9

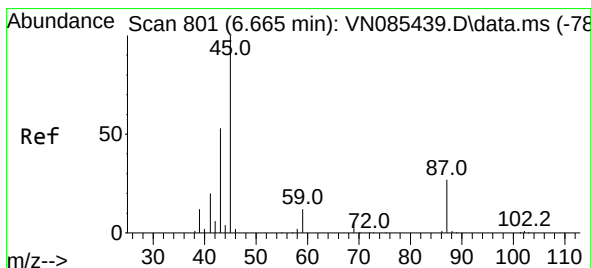
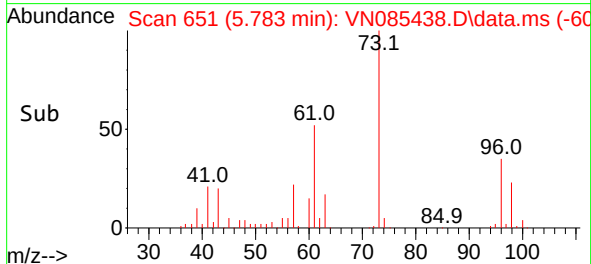
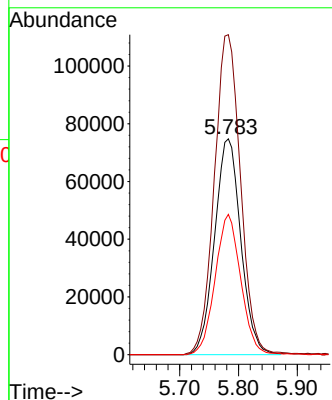
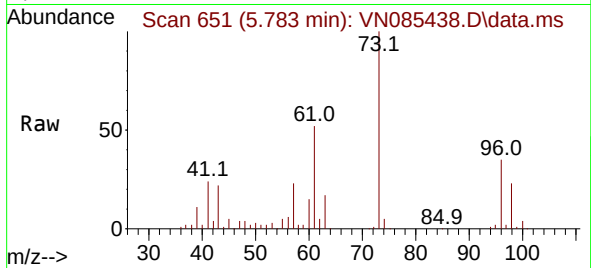




#21
trans-1,2-Dichloroethene
Concen: 99.618 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

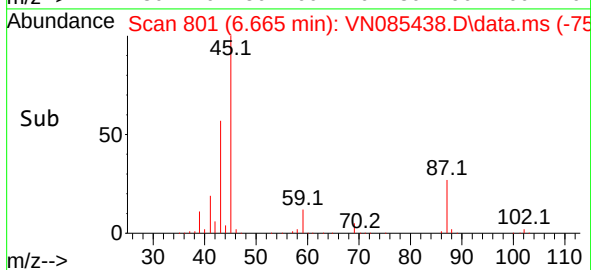
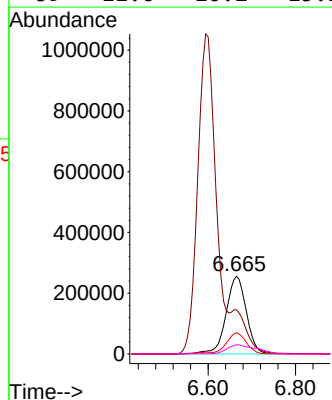
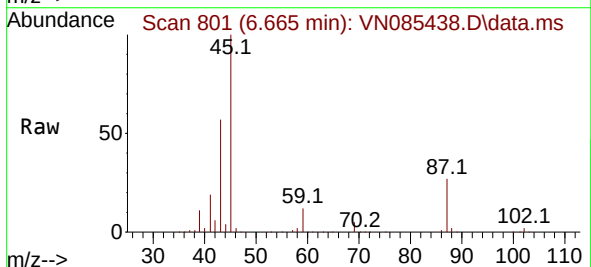
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

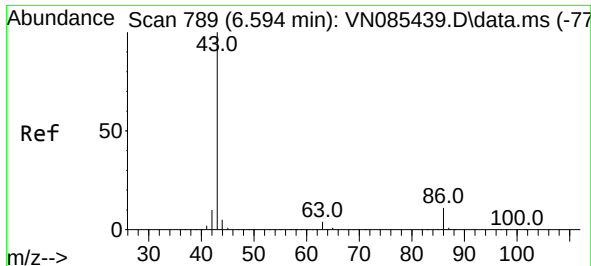
Tgt Ion: 96 Resp: 231503
Ion Ratio Lower Upper
96 100
61 148.3 115.7 173.5
98 65.0 49.8 74.8



#22
Diisopropyl ether
Concen: 104.812 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 45 Resp: 820871
Ion Ratio Lower Upper
45 100
43 55.7 45.0 67.6
87 27.2 21.8 32.8
59 11.6 10.2 15.2

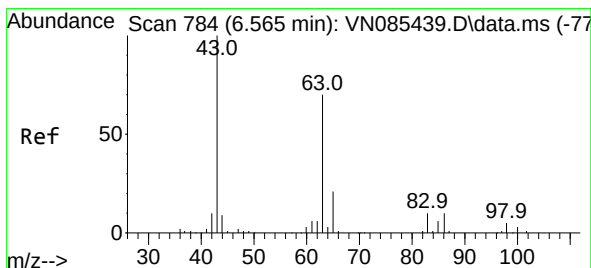
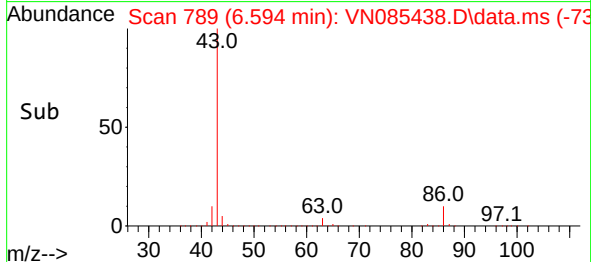
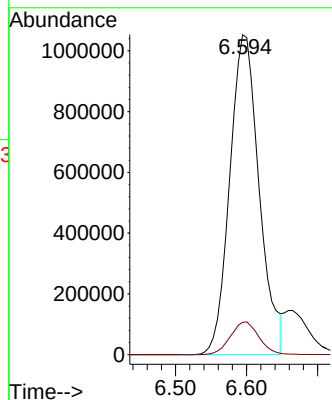
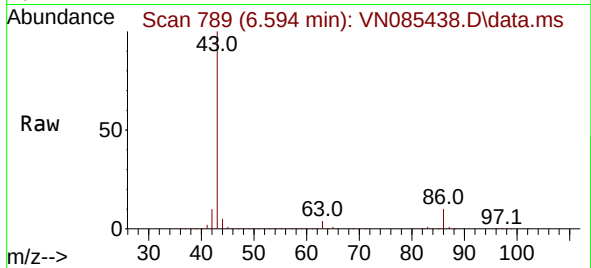




#23
 Vinyl Acetate
 Concen: 550.850 ug/l
 RT: 6.594 min Scan# 789
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

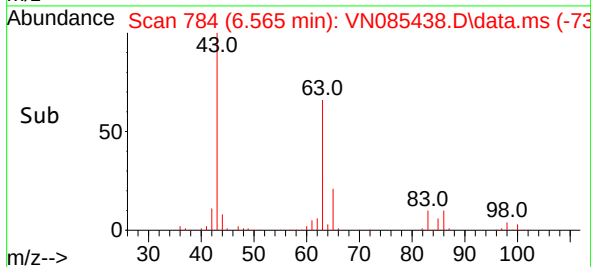
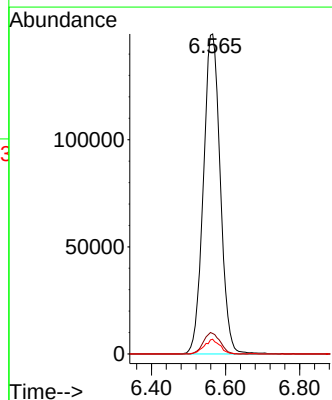
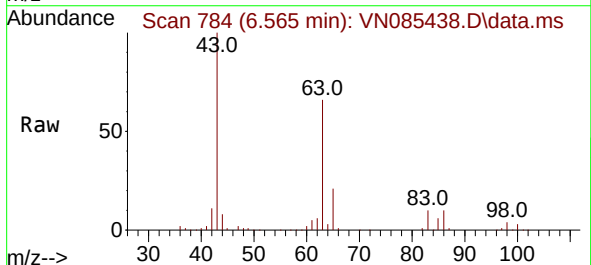
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

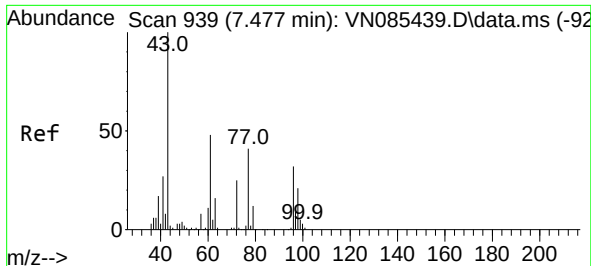
Tgt Ion: 43 Resp: 3029568
 Ion Ratio Lower Upper
 43 100
 86 10.1 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 98.803 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 471831
 Ion Ratio Lower Upper
 63 100
 98 6.4 3.3 9.8
 100 4.6 2.0 6.0

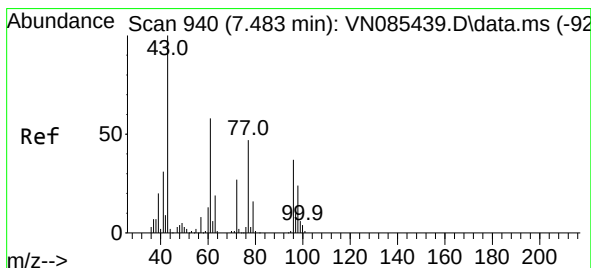
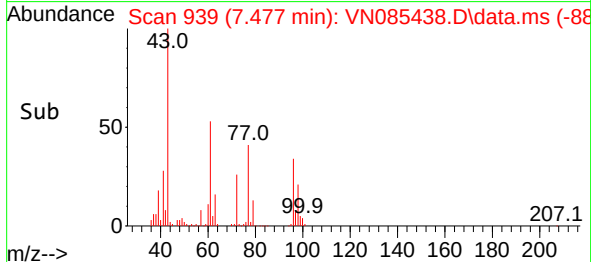
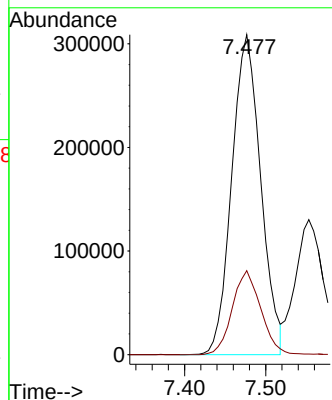
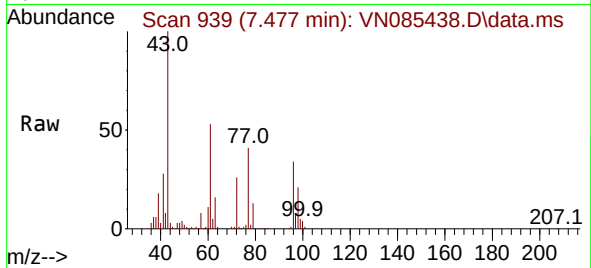




#25
2-Butanone
Concen: 491.912 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

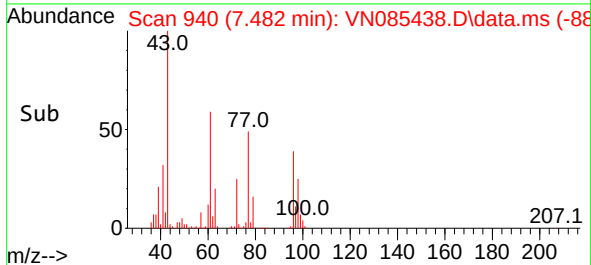
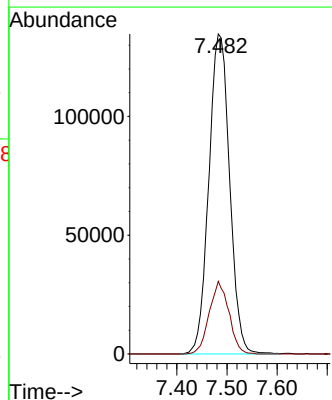
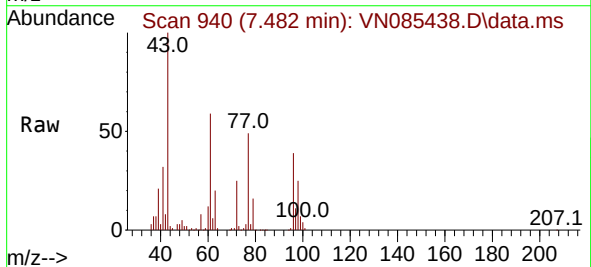
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

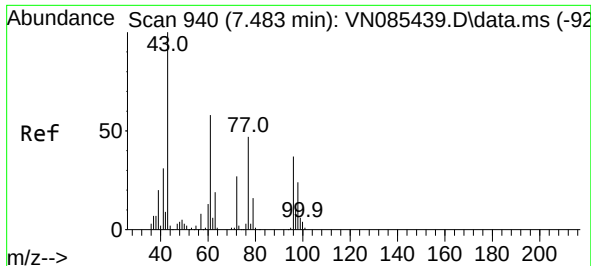
Tgt Ion: 43 Resp: 764979
Ion Ratio Lower Upper
43 100
72 26.3 20.2 30.4



#26
2,2-Dichloropropane
Concen: 100.530 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 77 Resp: 388140
Ion Ratio Lower Upper
77 100
97 21.4 10.7 32.1

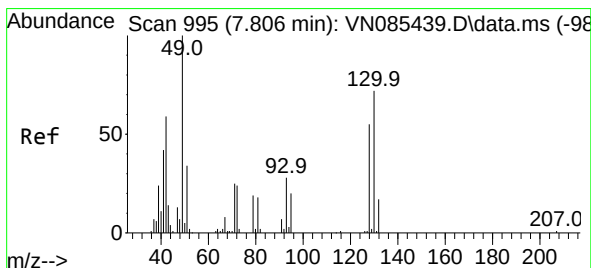
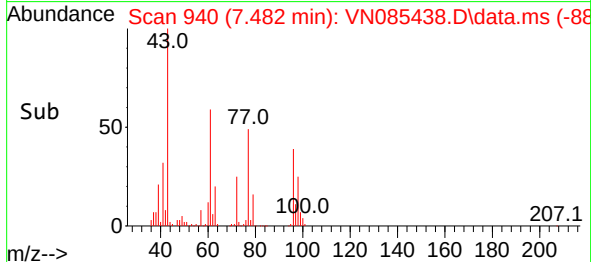
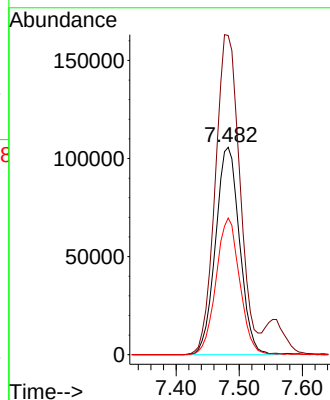
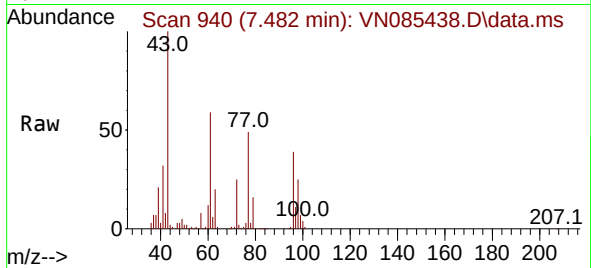




#27
 cis-1,2-Dichloroethene
 Concen: 102.367 ug/l
 RT: 7.482 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

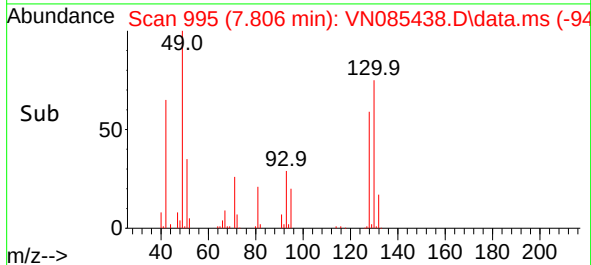
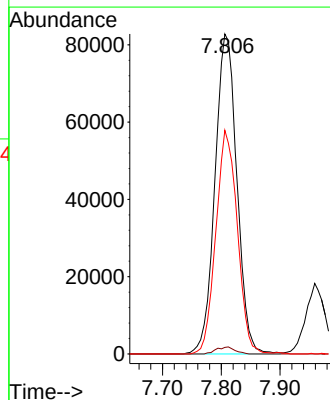
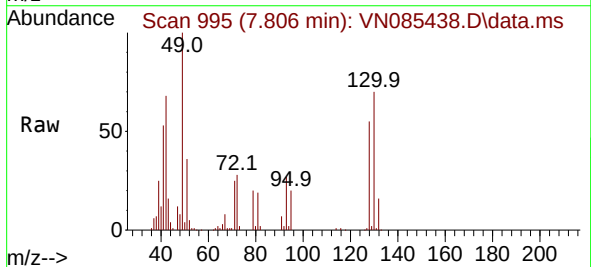
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

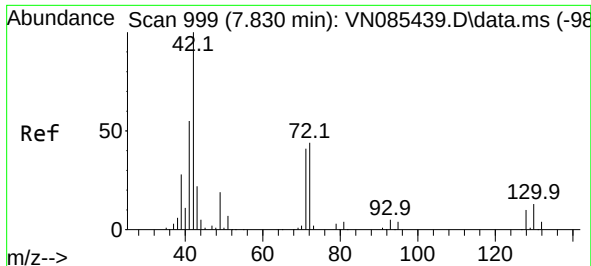
Tgt Ion: 96 Resp: 280197
 Ion Ratio Lower Upper
 96 100
 61 156.8 0.0 311.8
 98 65.0 0.0 126.0



#28
 Bromochloromethane
 Concen: 96.679 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion: 49 Resp: 214796
 Ion Ratio Lower Upper
 49 100
 129 1.9 0.0 4.4
 130 68.4 55.0 82.4





#29

Tetrahydrofuran

Concen: 510.635 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

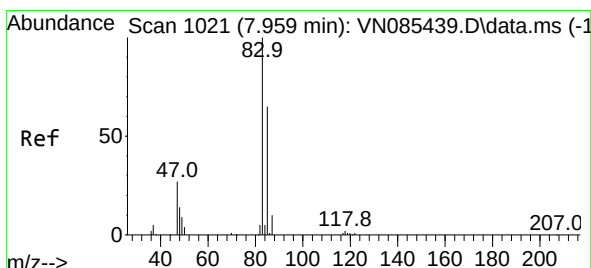
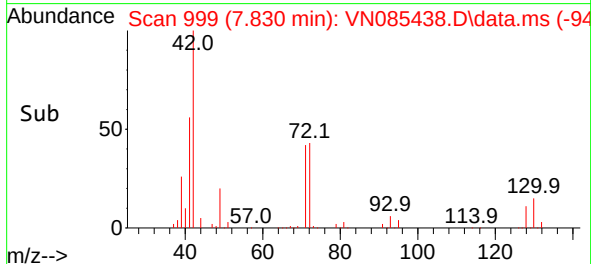
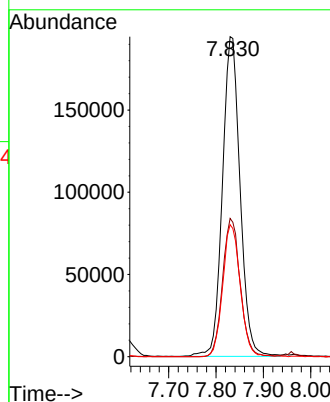
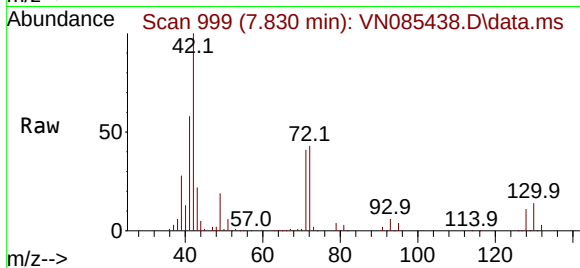
Tgt Ion: 42 Resp: 503459

Ion Ratio Lower Upper

42 100

72 43.1 34.2 51.2

71 40.9 32.5 48.7



#30

Chloroform

Concen: 98.253 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.000 min

Lab File: VN085438.D

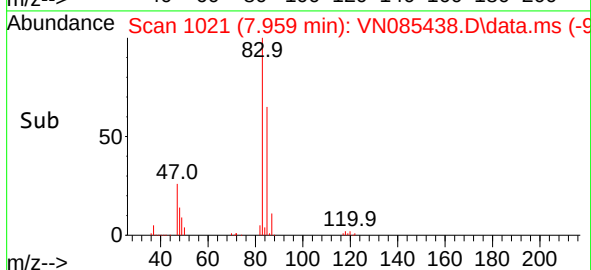
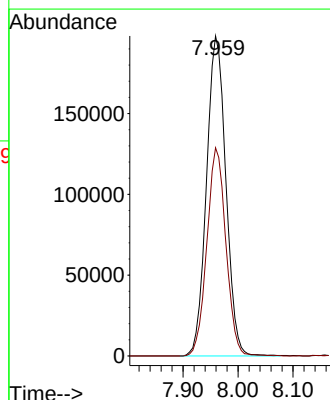
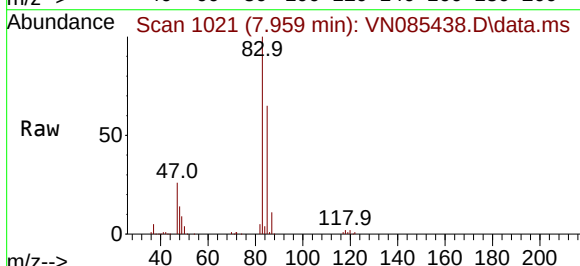
Acq: 14 Jan 2025 14:56

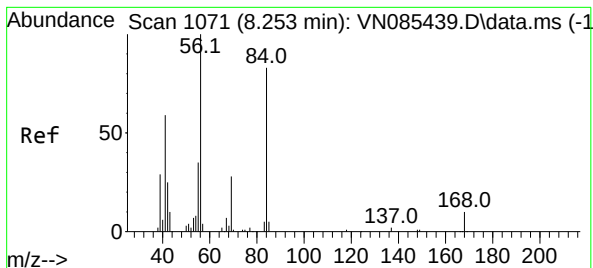
Tgt Ion: 83 Resp: 484941

Ion Ratio Lower Upper

83 100

85 65.0 51.8 77.6





#31

Cyclohexane

Concen: 96.041 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

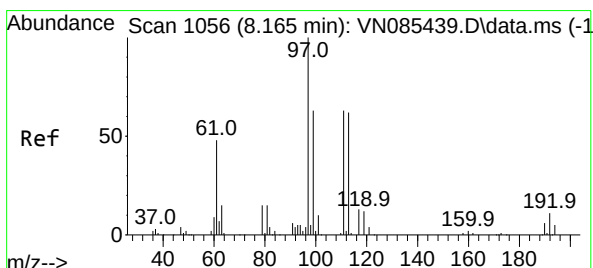
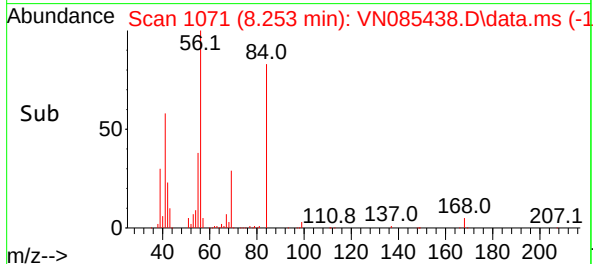
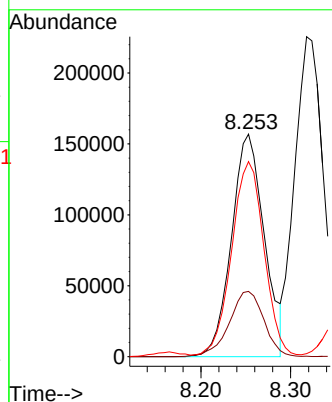
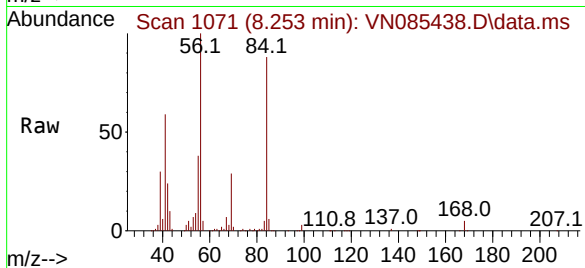
Tgt Ion: 56 Resp: 398641

Ion Ratio Lower Upper

56 100

69 29.2 22.2 33.4

84 86.4 66.4 99.6



#32

1,1,1-Trichloroethane

Concen: 98.578 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

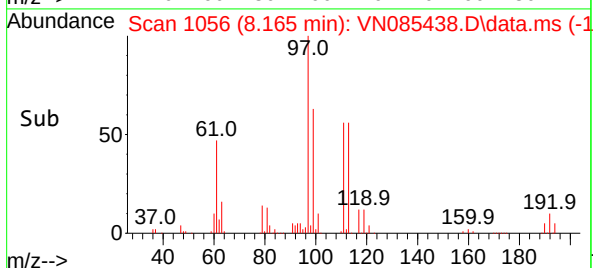
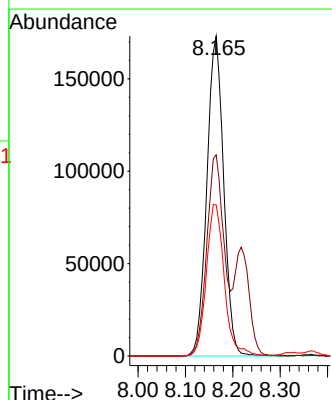
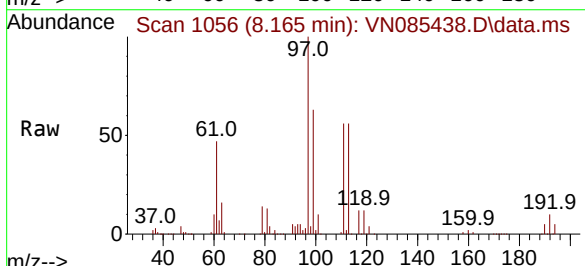
Tgt Ion: 97 Resp: 426782

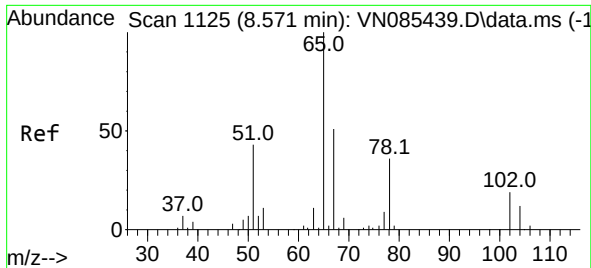
Ion Ratio Lower Upper

97 100

99 64.2 49.8 74.6

61 50.6 41.4 62.2

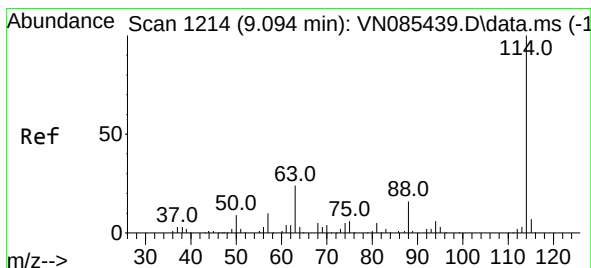
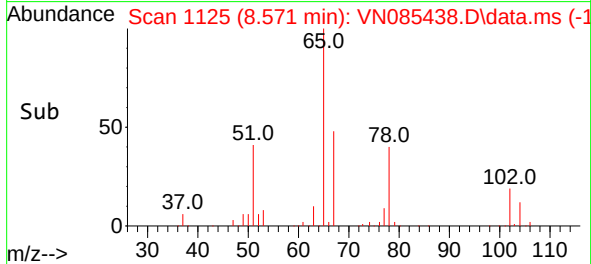
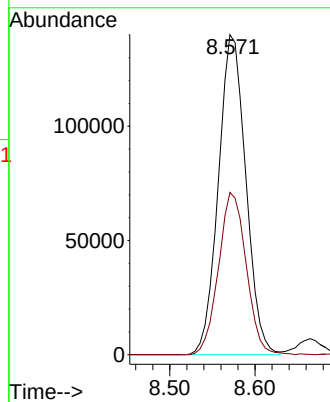
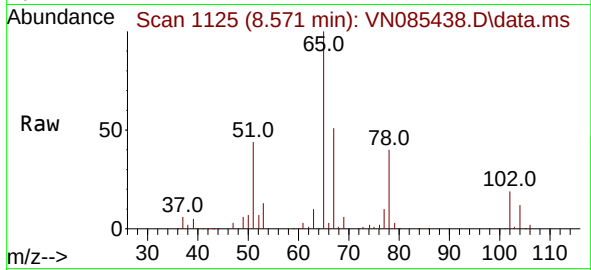




#33
1,2-Dichloroethane-d4
Concen: 95.899 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

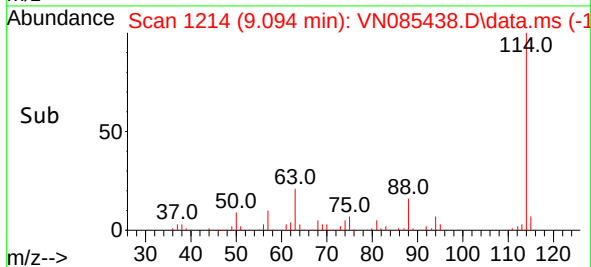
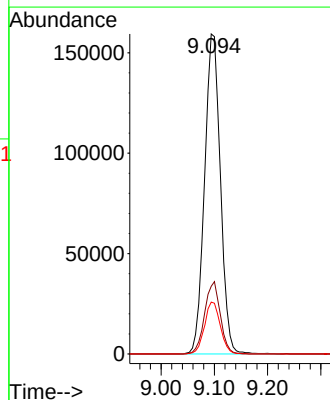
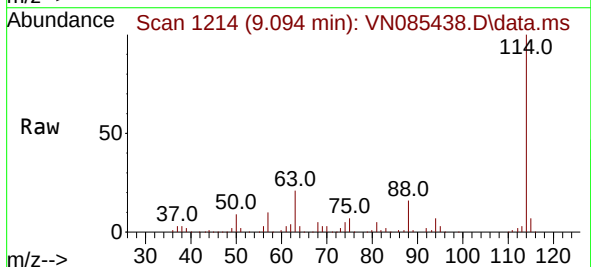
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

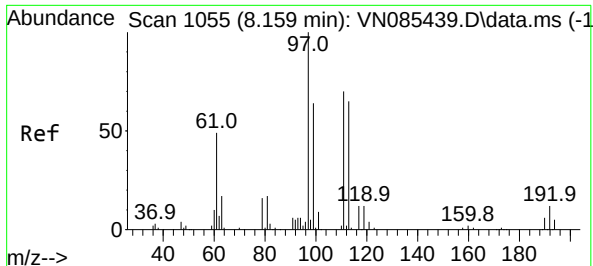
Tgt Ion: 65 Resp: 313645
Ion Ratio Lower Upper
65 100
67 51.1 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 114 Resp: 329363
Ion Ratio Lower Upper
114 100
63 21.2 0.0 47.6
88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 103.353 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

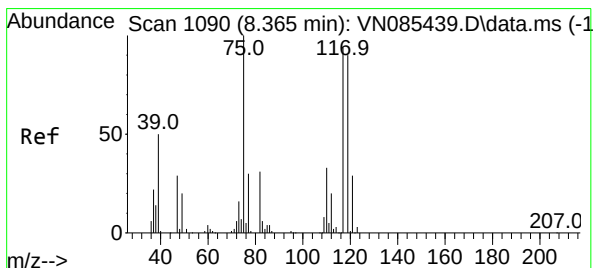
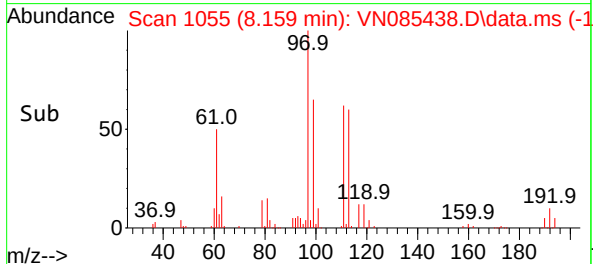
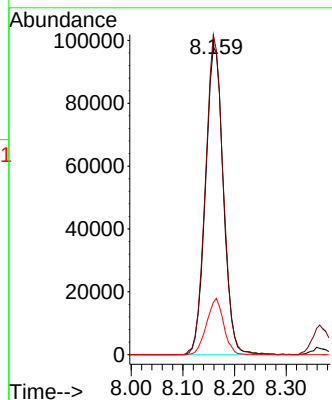
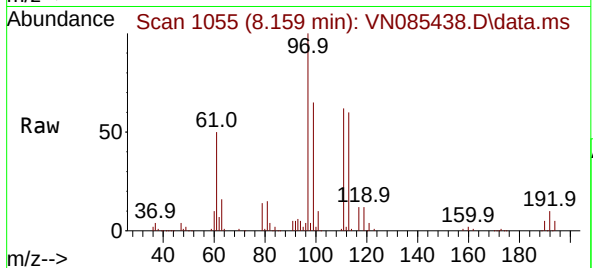
Tgt Ion:113 Resp: 236159

Ion Ratio Lower Upper

113 100

111 102.3 82.7 124.1

192 17.4 14.3 21.5



#36

1,1-Dichloropropene

Concen: 106.945 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

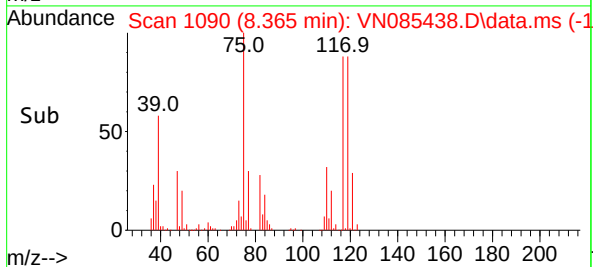
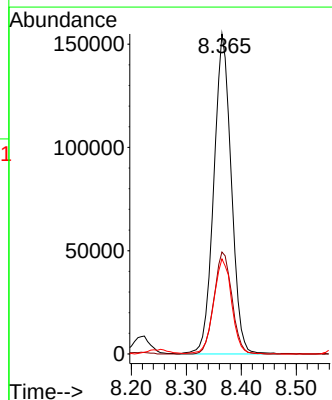
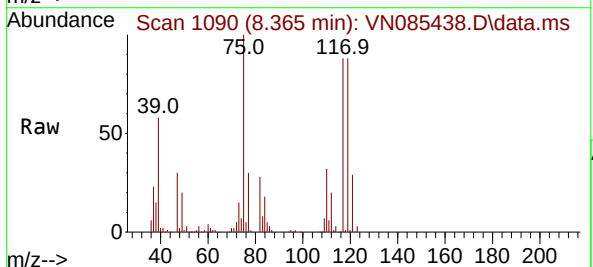
Tgt Ion: 75 Resp: 342961

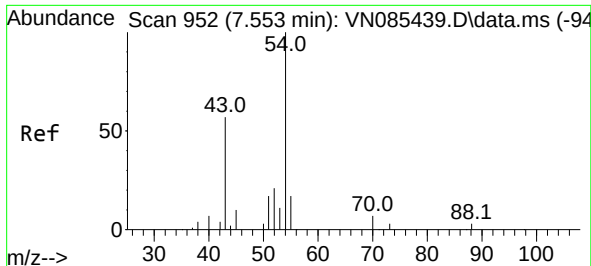
Ion Ratio Lower Upper

75 100

110 32.6 16.5 49.5

77 30.6 24.4 36.6





#37

Ethyl Acetate

Concen: 100.961 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

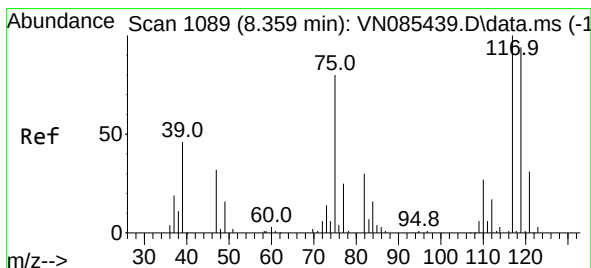
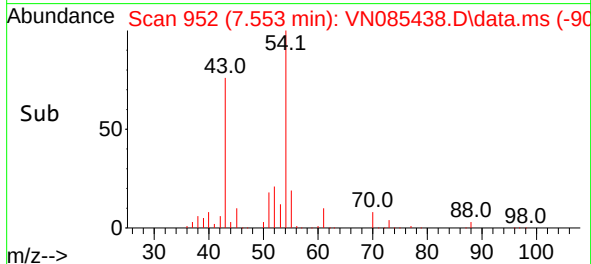
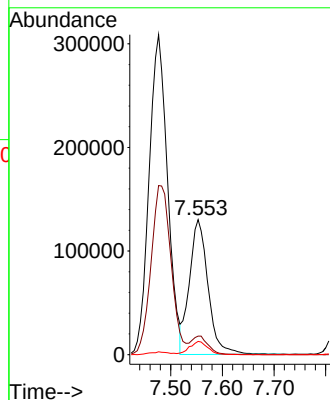
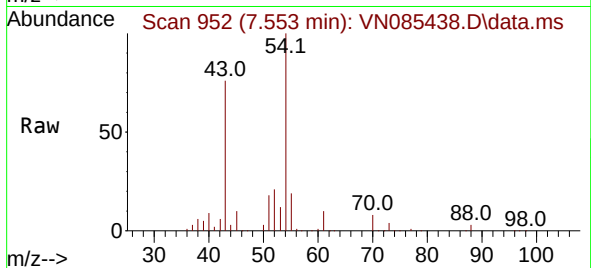
Tgt Ion: 43 Resp: 326802

Ion Ratio Lower Upper

43 100

61 12.0 10.9 16.3

70 9.6 7.5 11.3



#38

Carbon Tetrachloride

Concen: 103.065 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

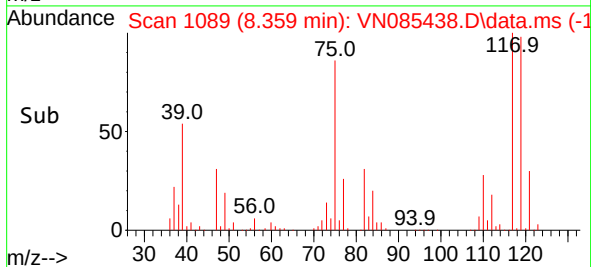
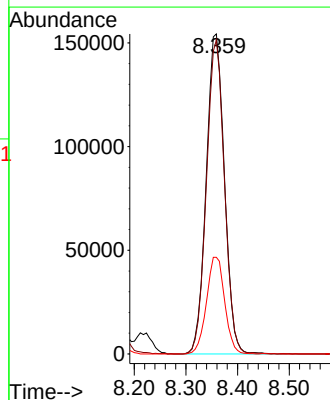
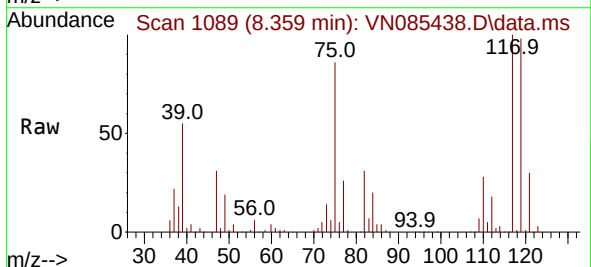
Tgt Ion: 117 Resp: 378390

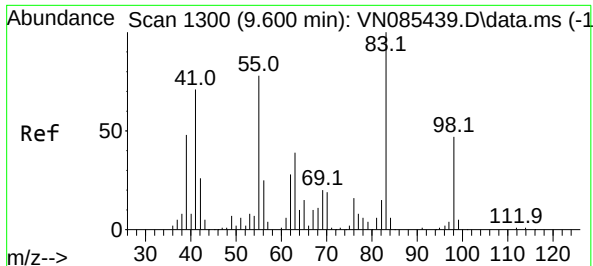
Ion Ratio Lower Upper

117 100

119 98.1 75.4 113.2

121 30.2 24.6 37.0





#39

Methylcyclohexane

Concen: 123.354 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

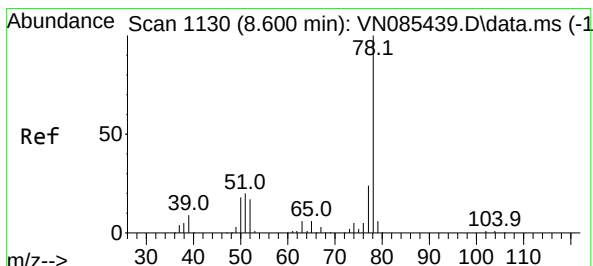
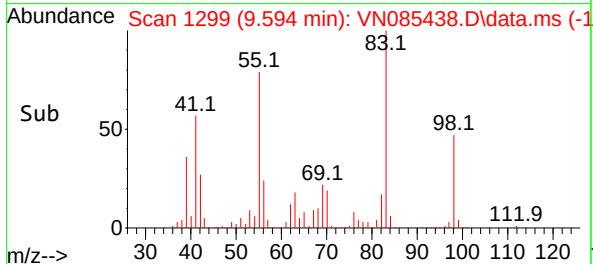
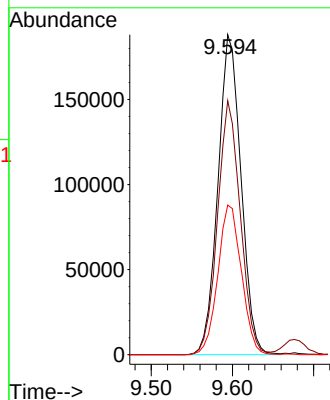
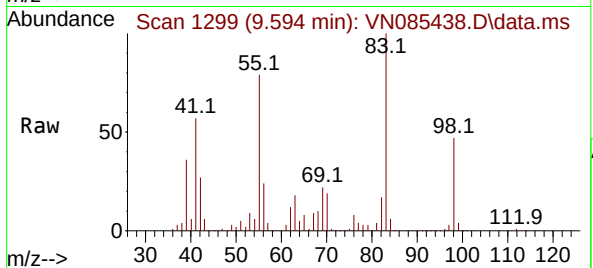
Tgt Ion: 83 Resp: 371734

Ion Ratio Lower Upper

83 100

55 79.3 62.6 94.0

98 46.7 37.7 56.5



#40

Benzene

Concen: 106.001 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085438.D

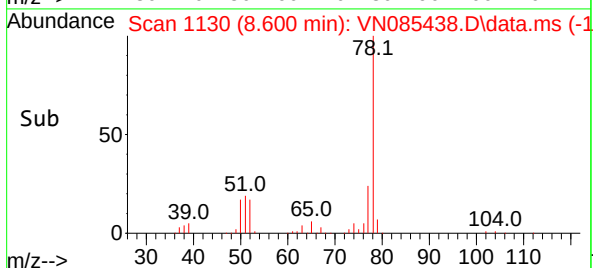
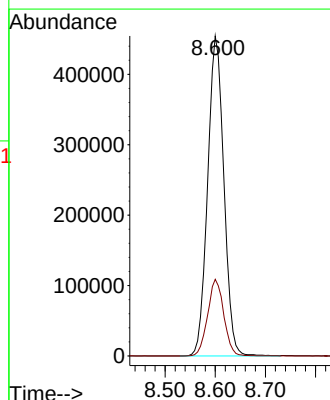
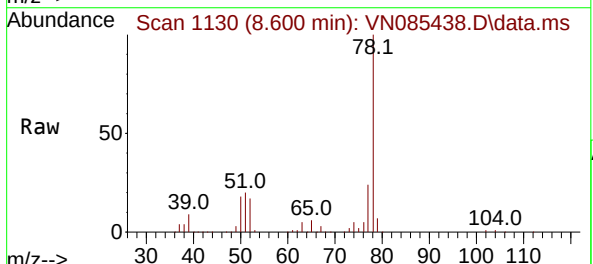
Acq: 14 Jan 2025 14:56

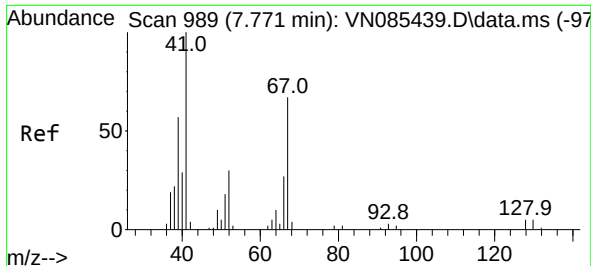
Tgt Ion: 78 Resp: 1021393

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6



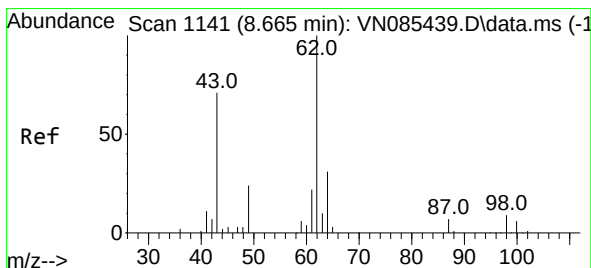
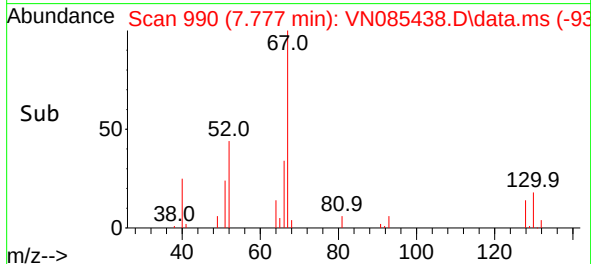
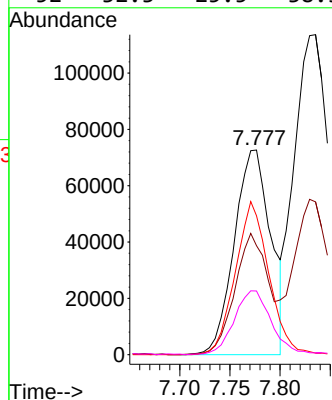
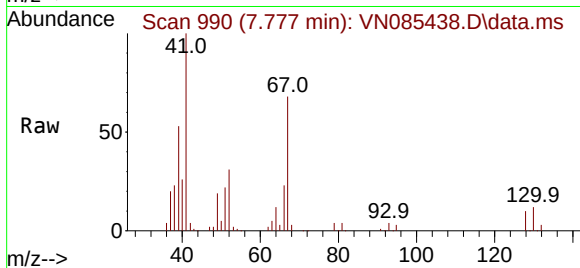


#41
Methacrylonitrile
Concen: 109.454 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 184326

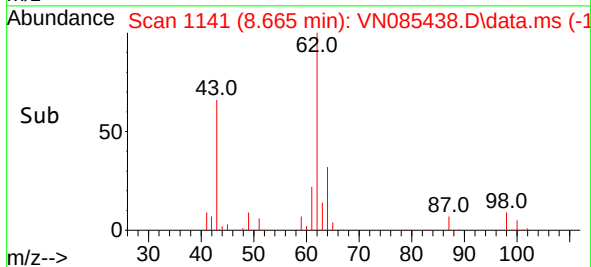
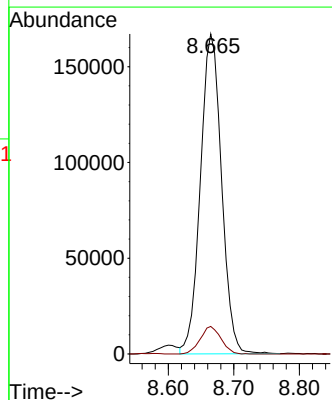
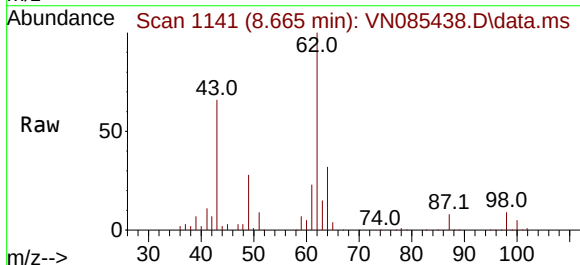
Ion	Ratio	Lower	Upper
41	100		
39	52.8	46.0	69.0
67	68.8	57.4	86.2
52	32.3	25.5	38.3

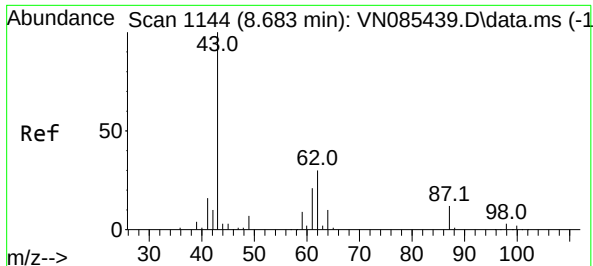


#42
1,2-Dichloroethane
Concen: 103.314 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 62 Resp: 374938

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.0

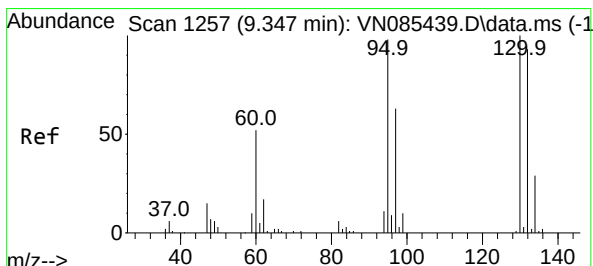
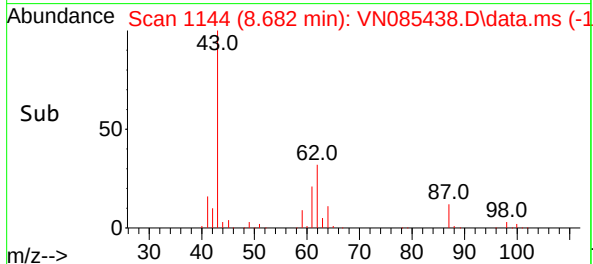
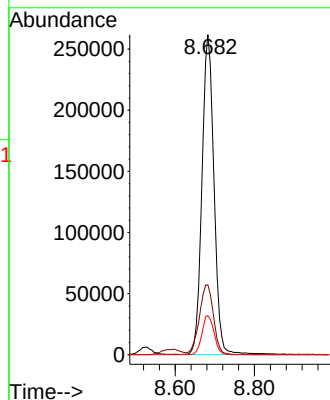
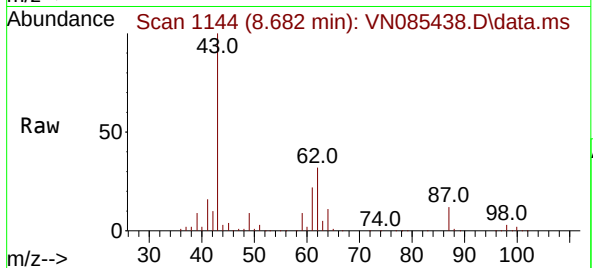




#43
Isopropyl Acetate
Concen: 106.035 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

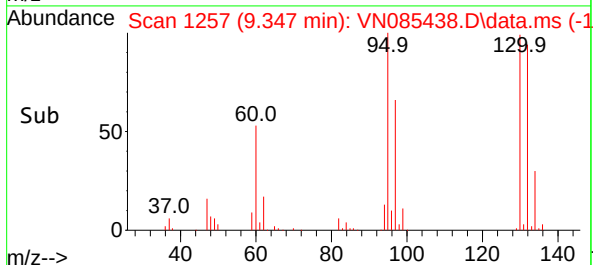
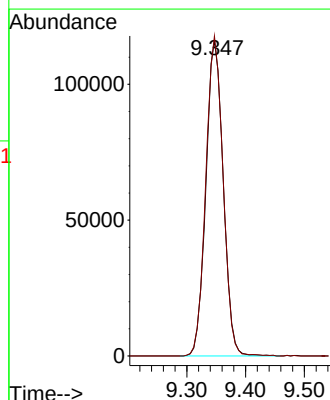
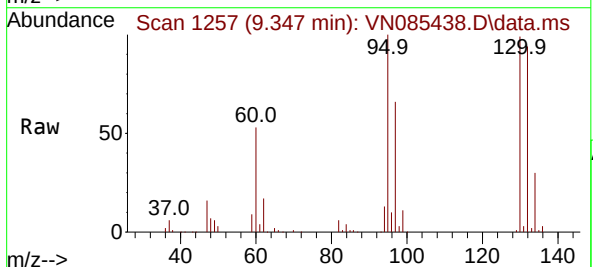
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

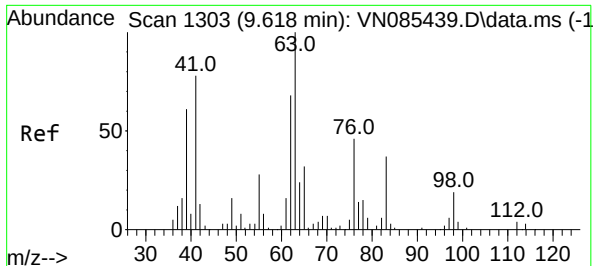
Tgt Ion: 43 Resp: 549969
Ion Ratio Lower Upper
43 100
61 25.7 20.7 31.1
87 12.2 9.8 14.8



#44
Trichloroethene
Concen: 106.242 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:130 Resp: 238296
Ion Ratio Lower Upper
130 100
95 101.5 0.0 195.8





#45

1,2-Dichloropropane

Concen: 104.405 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

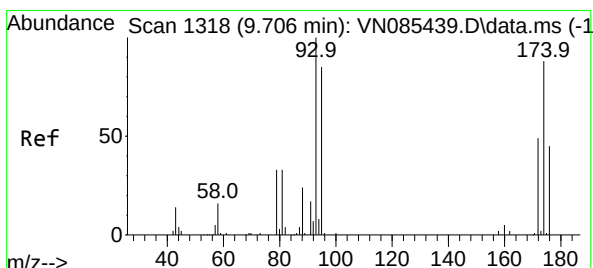
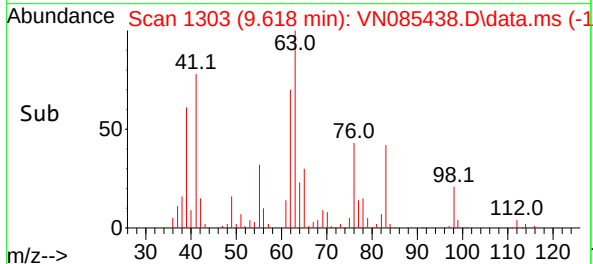
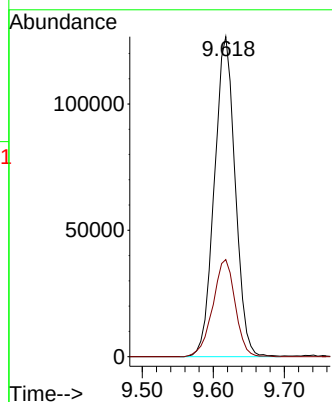
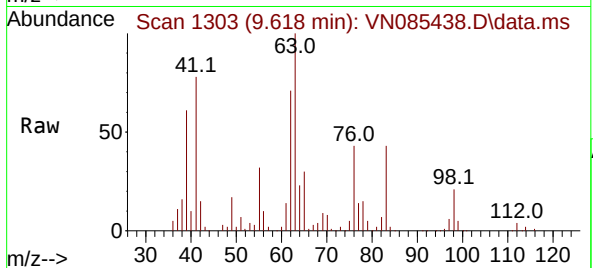
VSTDIC100

Tgt Ion: 63 Resp: 256964

Ion Ratio Lower Upper

63 100

65 30.3 25.6 38.4



#46

Dibromomethane

Concen: 101.913 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

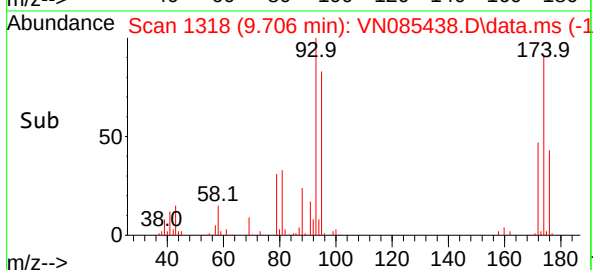
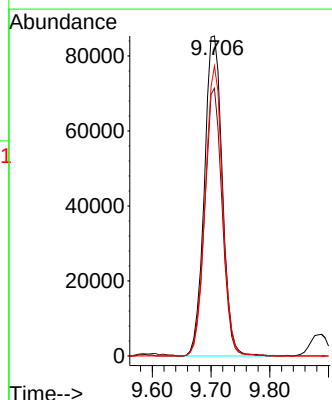
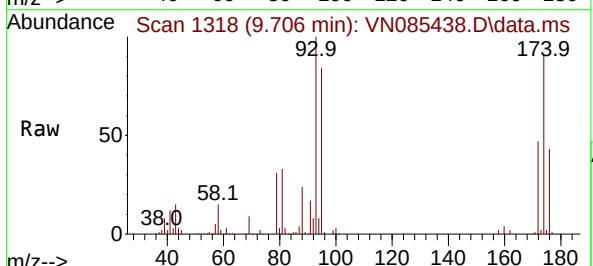
Tgt Ion: 93 Resp: 180990

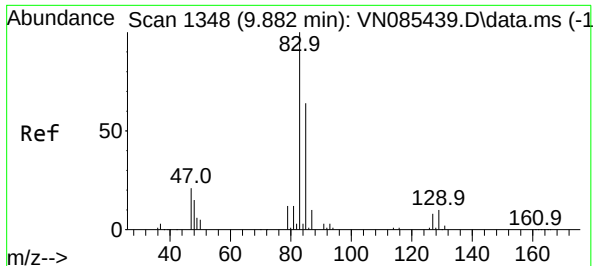
Ion Ratio Lower Upper

93 100

95 81.6 64.7 97.1

174 87.5 69.0 103.4

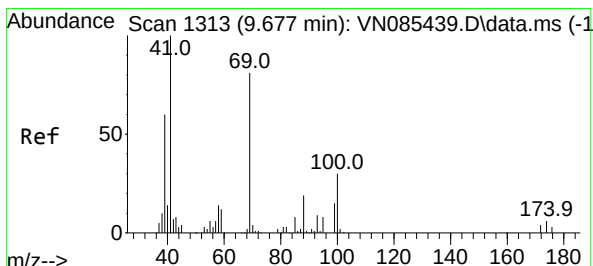
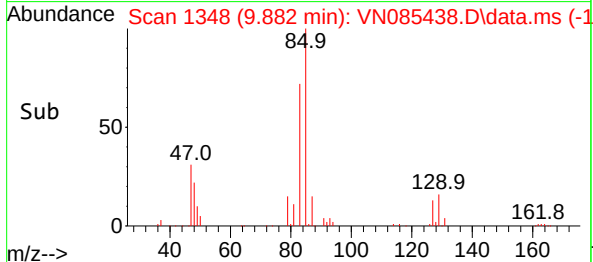
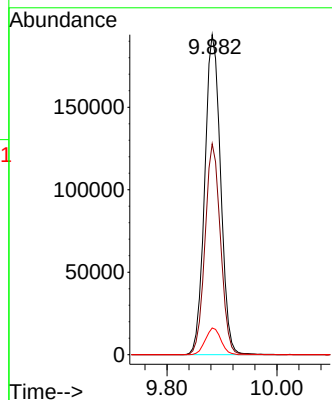
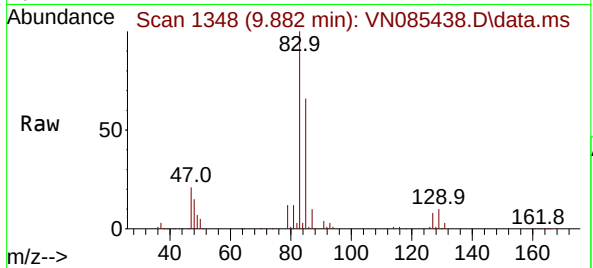




#47
Bromodichloromethane
Concen: 107.377 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

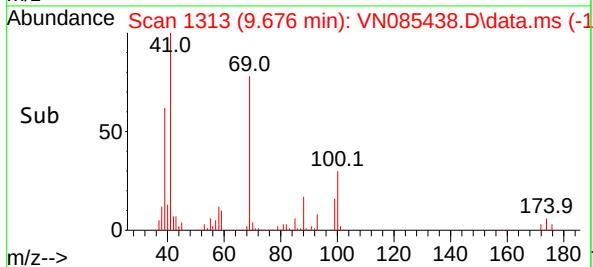
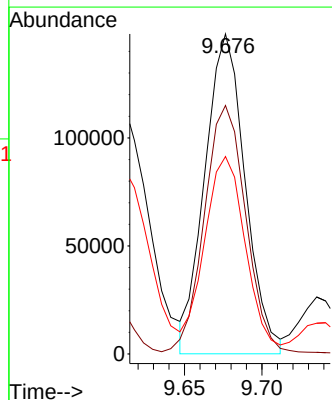
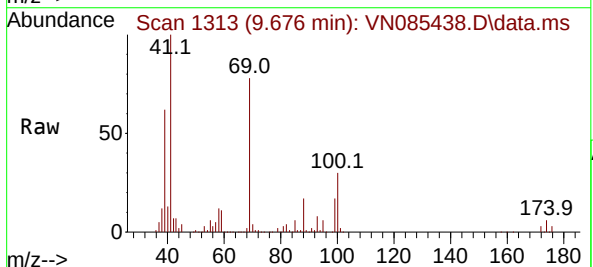
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

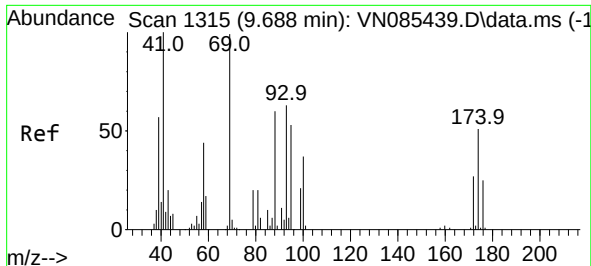
Tgt Ion: 83 Resp: 388499
Ion Ratio Lower Upper
83 100
85 65.9 51.2 76.8
127 8.4 6.5 9.7



#48
Methyl methacrylate
Concen: 114.685 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 41 Resp: 267689
Ion Ratio Lower Upper
41 100
69 80.9 64.7 97.1
39 63.1 49.0 73.6





#49

1,4-Dioxane

Concen: 2133.992 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

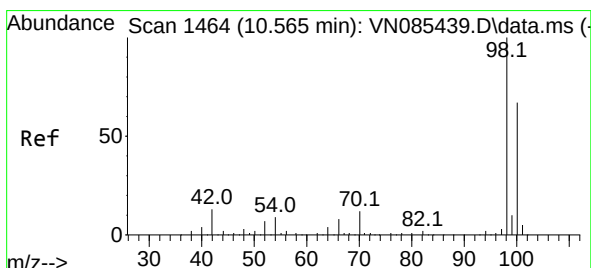
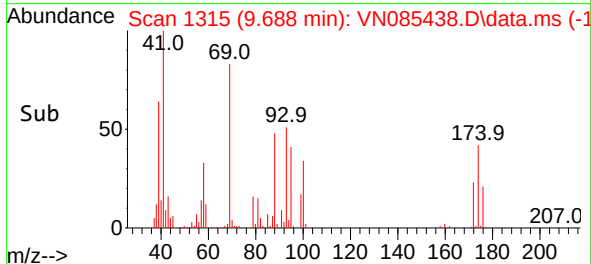
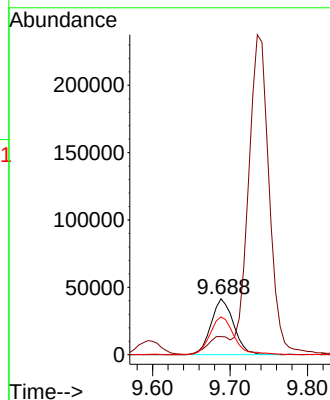
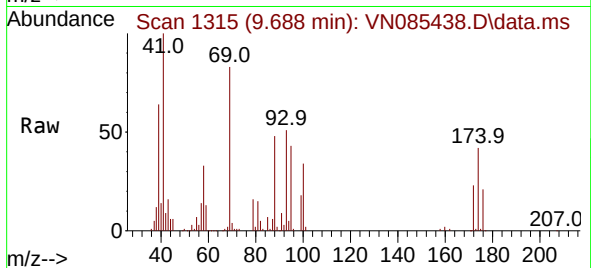
Tgt Ion: 88 Resp: 83879

Ion Ratio Lower Upper

88 100

43 31.3 26.6 39.8

58 72.1 59.5 89.3



#50

Toluene-d8

Concen: 108.636 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085438.D

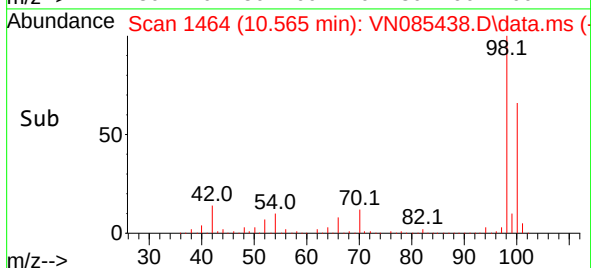
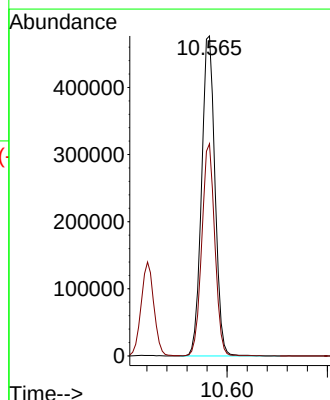
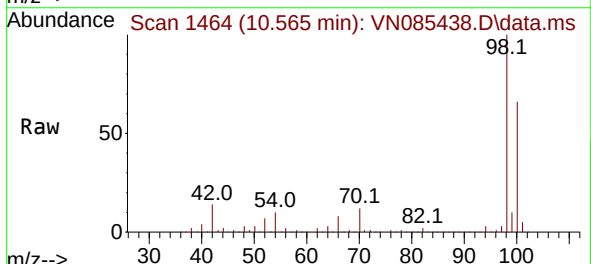
Acq: 14 Jan 2025 14:56

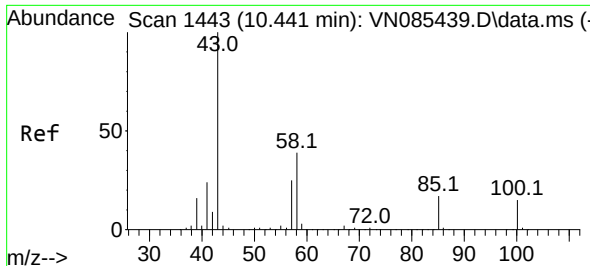
Tgt Ion: 98 Resp: 881956

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4

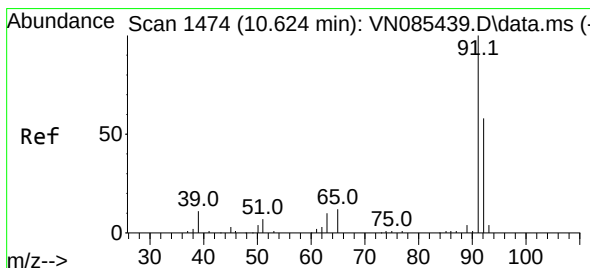
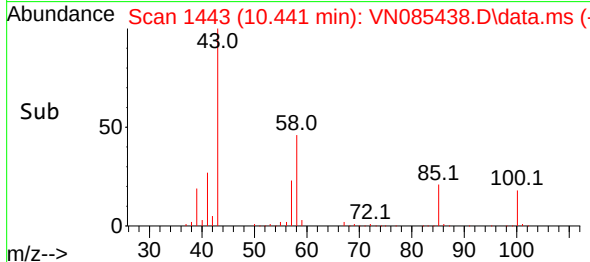
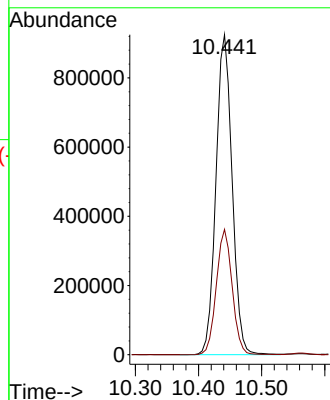
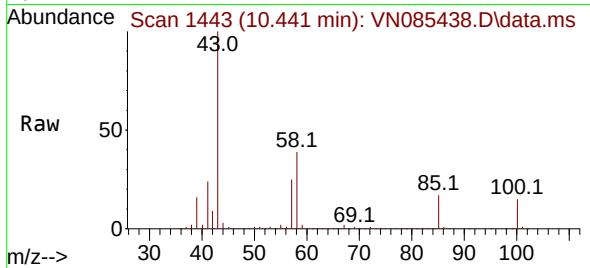




#51
4-Methyl-2-Pentanone
Concen: 546.159 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

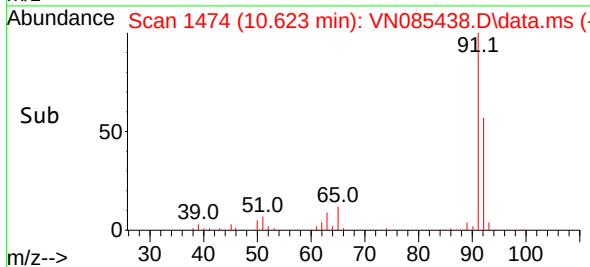
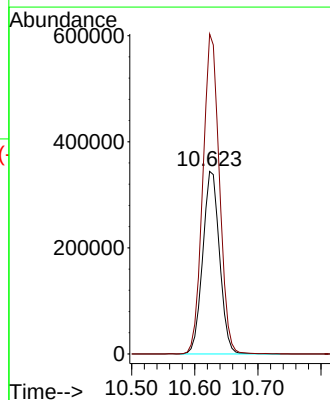
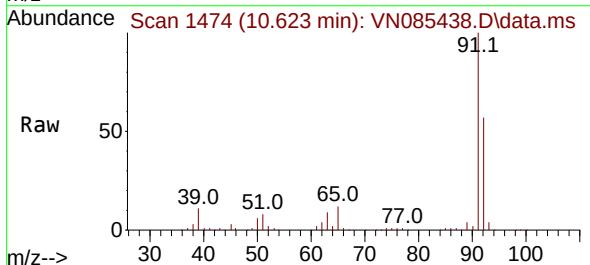
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

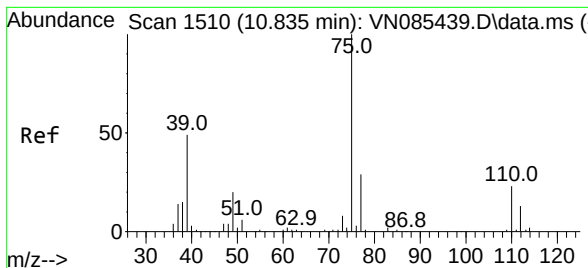
Tgt Ion: 43 Resp: 1643800
Ion Ratio Lower Upper
43 100
58 38.4 30.5 45.7



#52
Toluene
Concen: 113.689 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 92 Resp: 634743
Ion Ratio Lower Upper
92 100
91 173.1 139.2 208.8

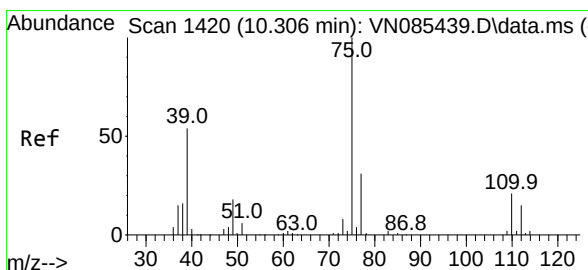
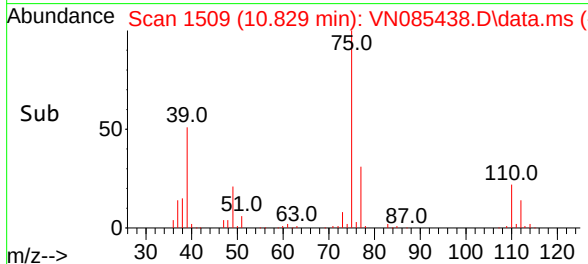
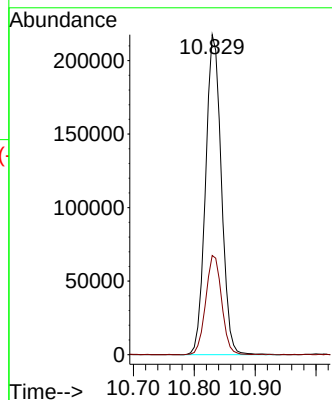
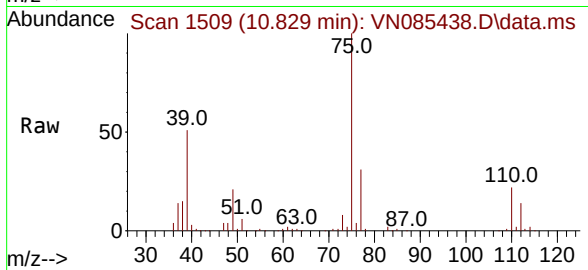




#53
 t-1,3-Dichloropropene
 Concen: 114.424 ug/l
 RT: 10.829 min Scan# 1510
 Delta R.T. -0.006 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

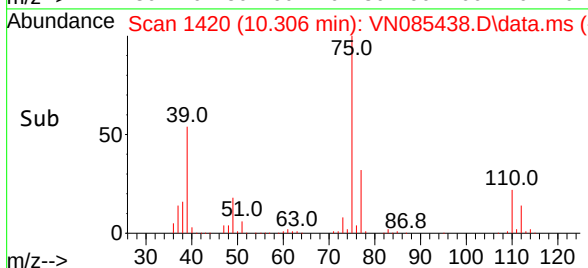
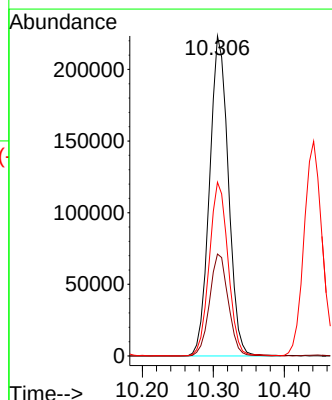
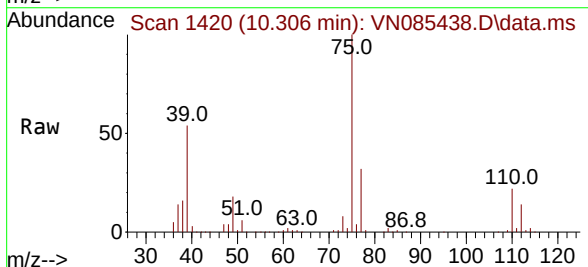
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

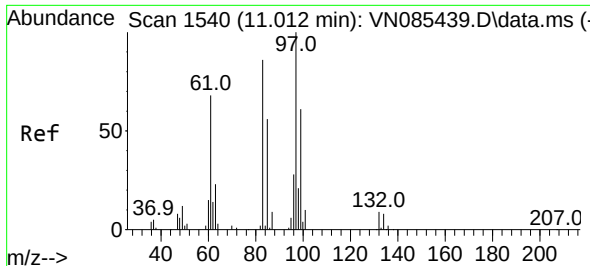
Tgt Ion: 75 Resp: 391238
 Ion Ratio Lower Upper
 75 100
 77 31.0 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 112.369 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 410403
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.0 37.4
 39 54.3 43.1 64.7

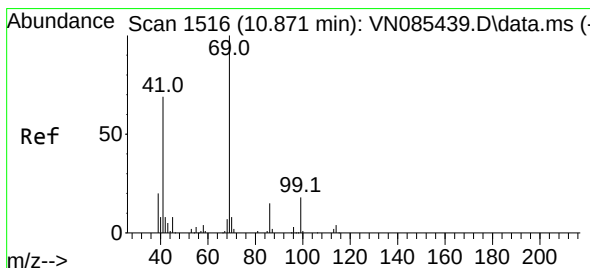
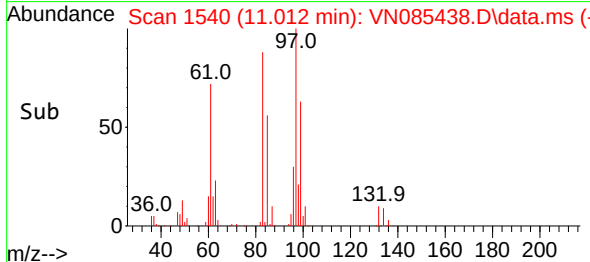
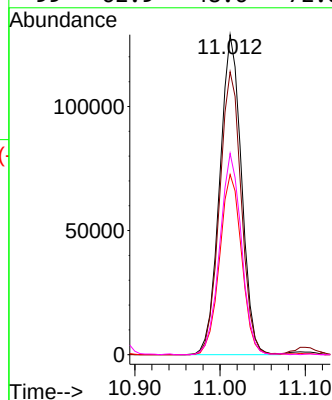
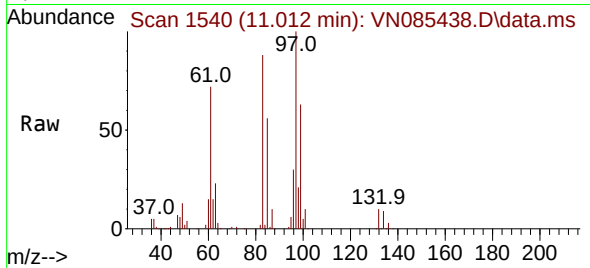




#55
1,1,2-Trichloroethane
Concen: 103.879 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

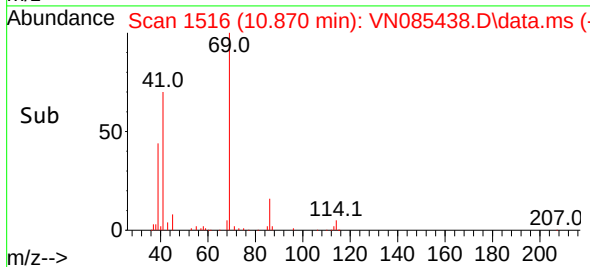
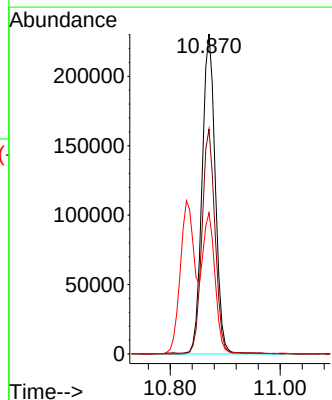
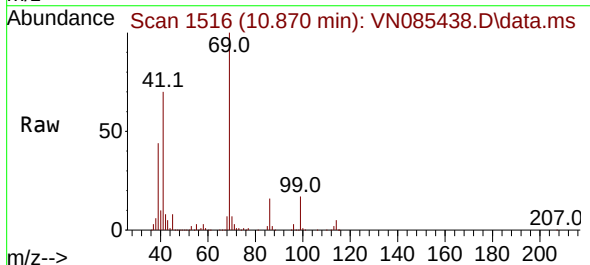
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

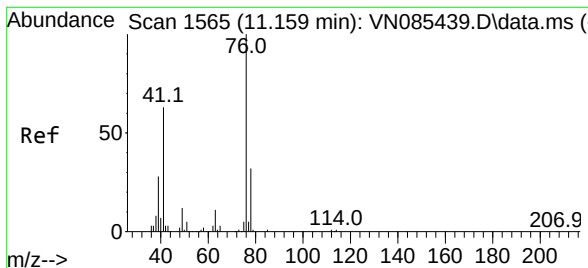
Tgt Ion:	97	Resp:	229522
Ion	Ratio	Lower	Upper
97	100		
83	88.4	69.0	103.6
85	56.3	44.6	66.8
99	62.9	48.6	72.8



#56
Ethyl methacrylate
Concen: 101.029 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:	69	Resp:	383663
Ion	Ratio	Lower	Upper
69	100		
41	69.1	54.6	82.0
39	40.1	32.4	48.6

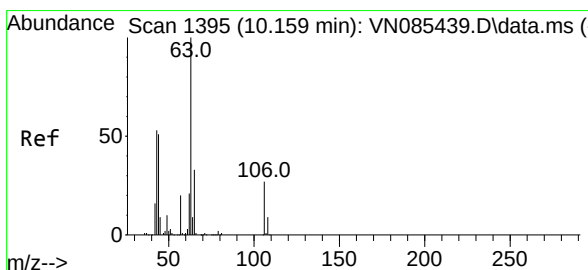
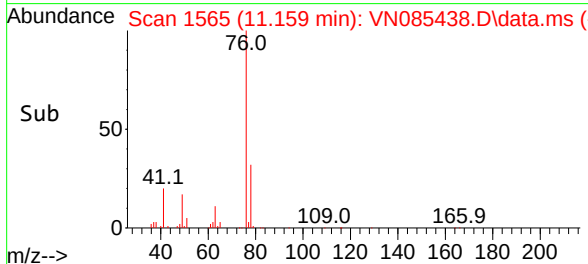
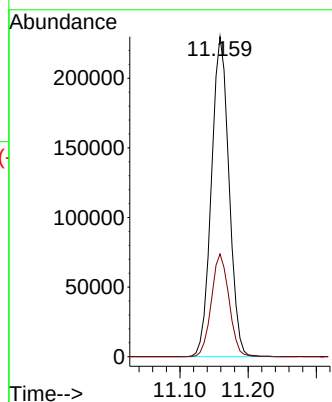
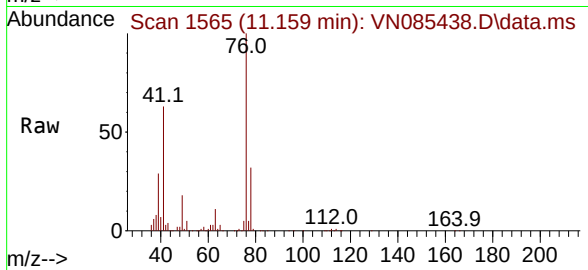




#57
 1,3-Dichloropropane
 Concen: 107.469 ug/l
 RT: 11.159 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

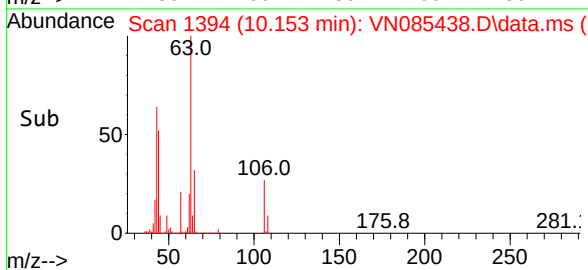
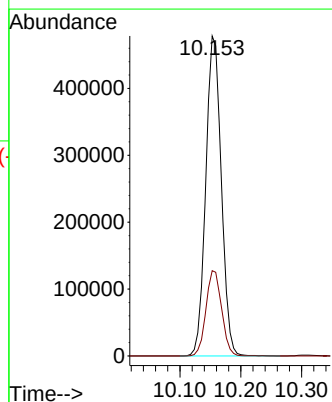
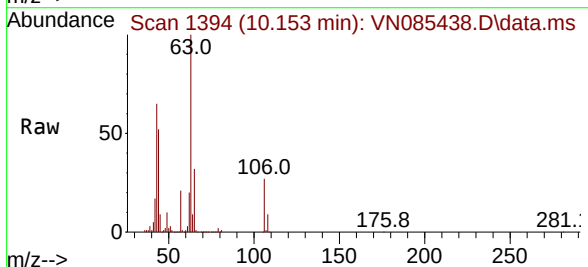
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

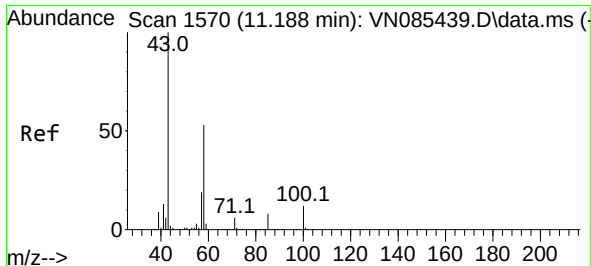
Tgt Ion: 76 Resp: 412886
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.6 38.4



#58
 2-Chloroethyl Vinyl ether
 Concen: 605.243 ug/l
 RT: 10.153 min Scan# 1394
 Delta R.T. -0.006 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion: 63 Resp: 848636
 Ion Ratio Lower Upper
 63 100
 106 26.8 21.6 32.4

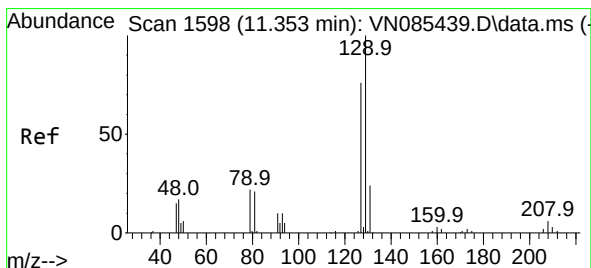
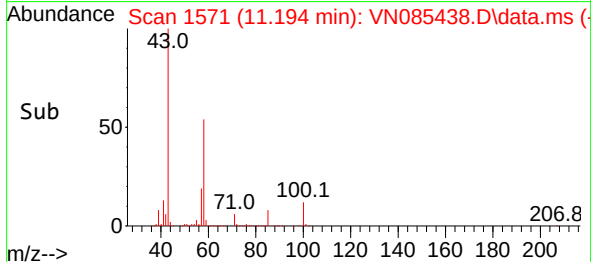
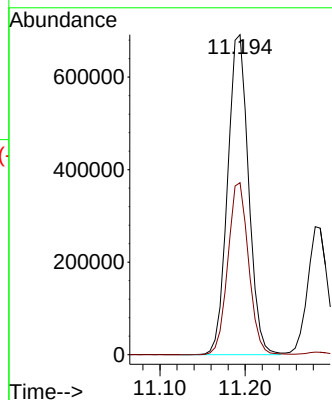
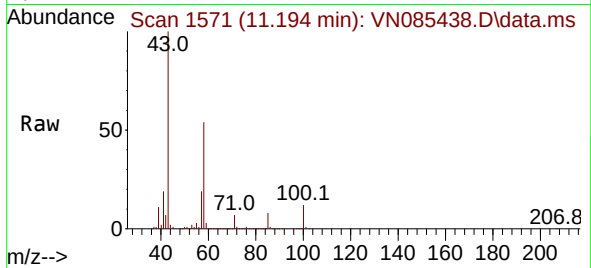




#59
2-Hexanone
Concen: 556.643 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

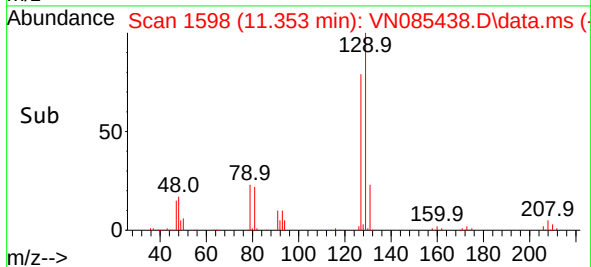
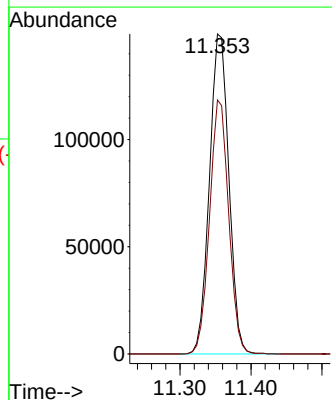
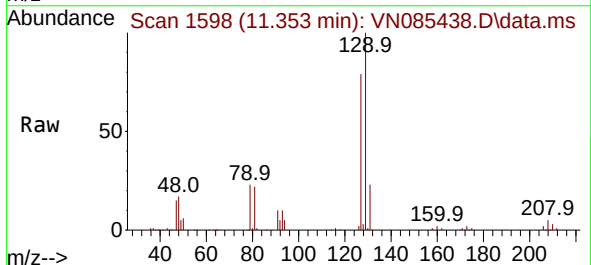
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

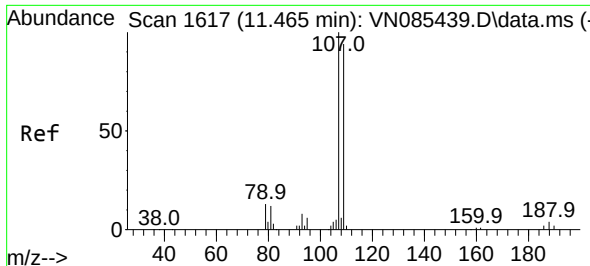
Tgt Ion: 43 Resp: 1178831
Ion Ratio Lower Upper
43 100
58 53.2 26.2 78.6



#60
Dibromochloromethane
Concen: 106.227 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:129 Resp: 283361
Ion Ratio Lower Upper
129 100
127 78.1 38.6 115.8

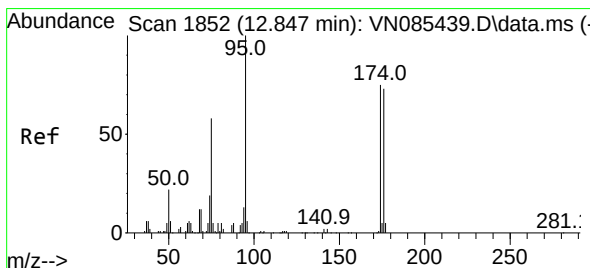
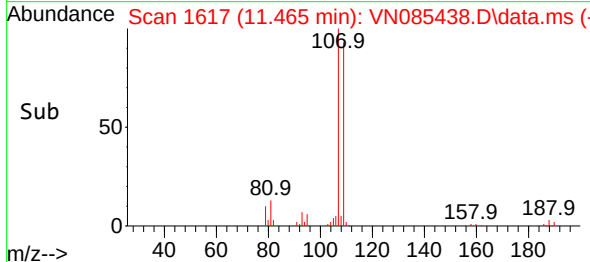
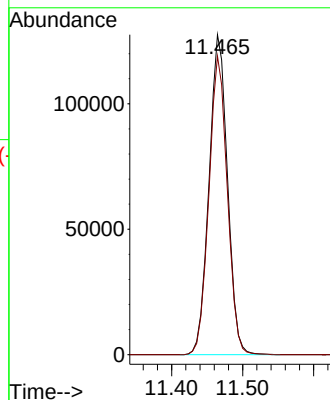
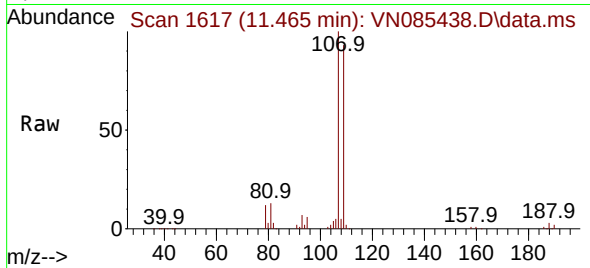




#61
1,2-Dibromoethane
Concen: 104.623 ug/l
RT: 11.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

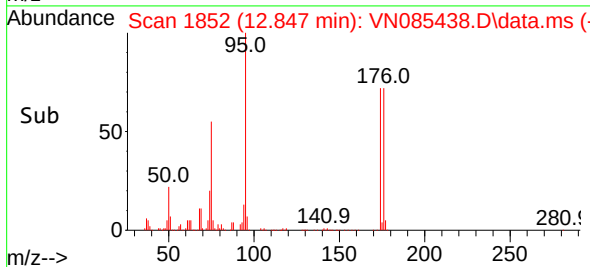
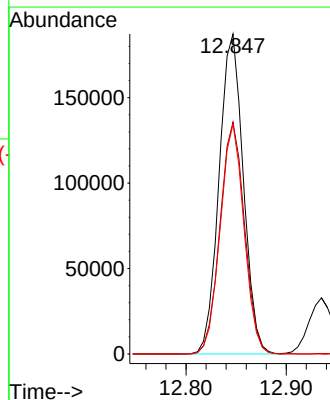
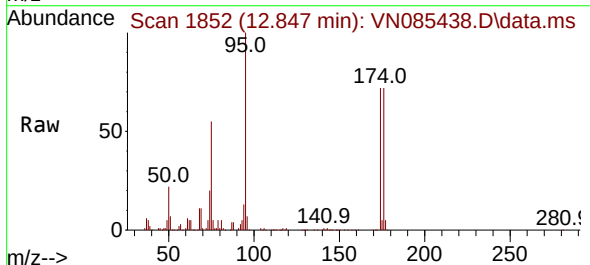
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

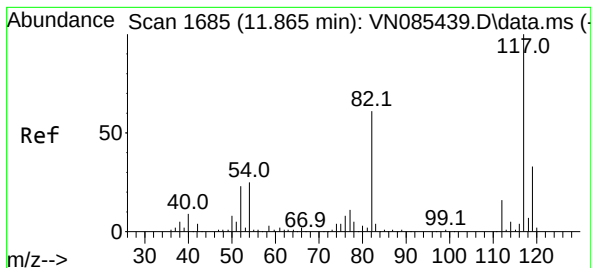
Tgt Ion:107 Resp: 230104
Ion Ratio Lower Upper
107 100
109 93.1 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 112.765 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 95 Resp: 313161
Ion Ratio Lower Upper
95 100
174 73.4 0.0 145.0
176 70.5 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

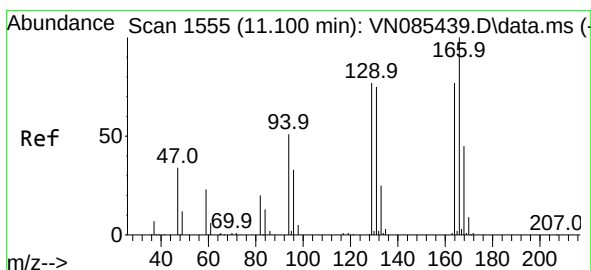
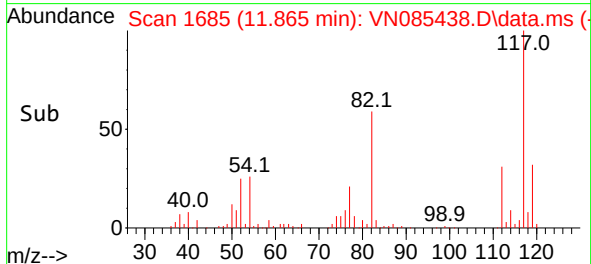
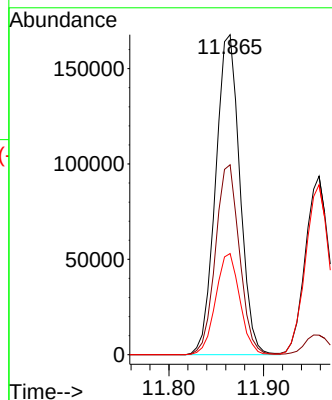
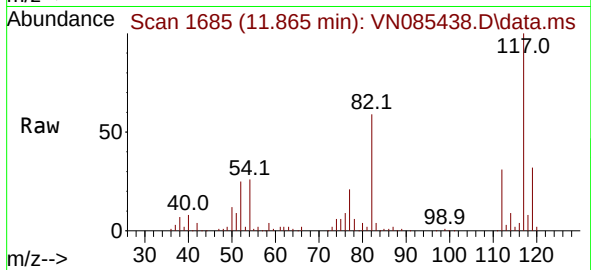
Tgt Ion:117 Resp: 298938

Ion Ratio Lower Upper

117 100

82 59.3 48.6 72.8

119 31.6 26.6 39.8



#64

Tetrachloroethene

Concen: 102.980 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Tgt Ion:164 Resp: 209870

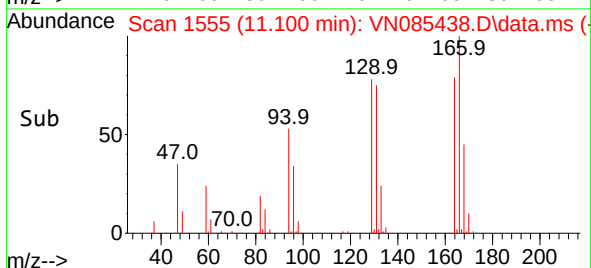
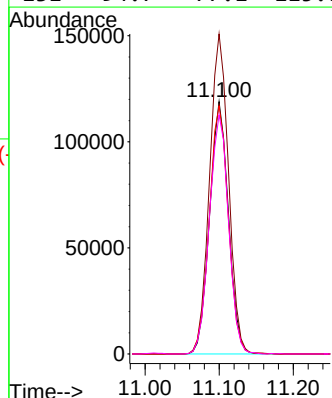
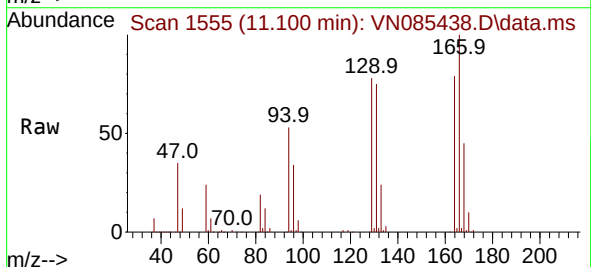
Ion Ratio Lower Upper

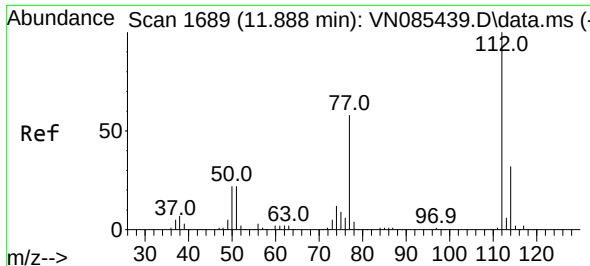
164 100

166 126.8 103.4 155.2

129 98.3 79.2 118.8

131 94.7 77.1 115.7

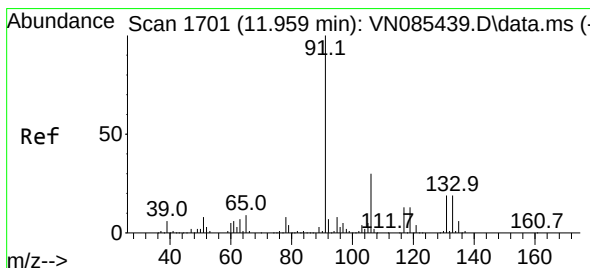
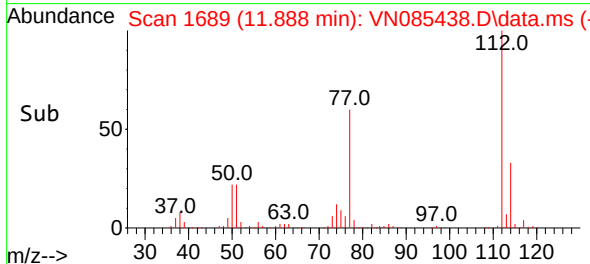
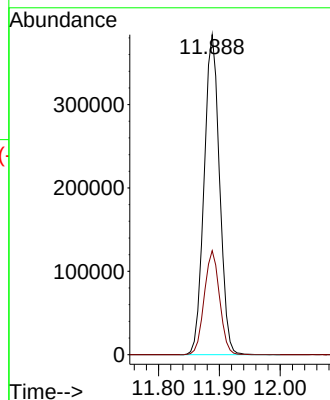
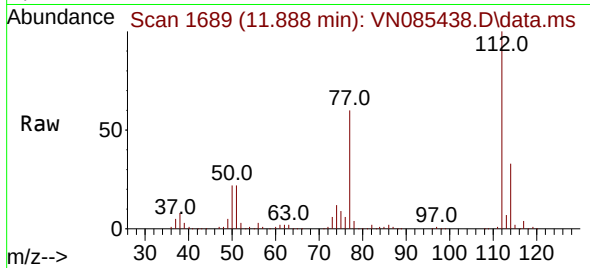




#65
Chlorobenzene
Concen: 103.482 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

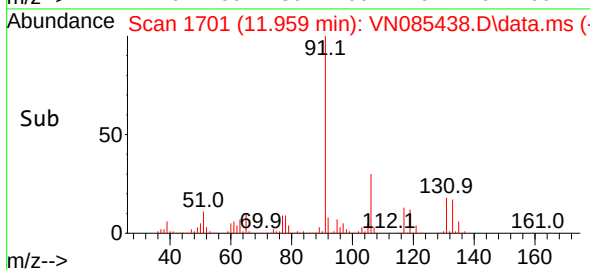
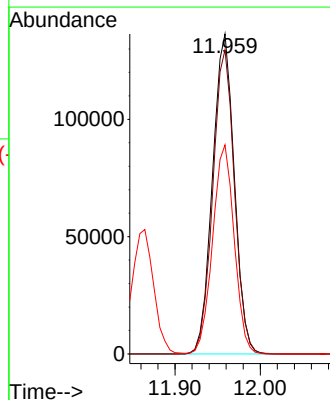
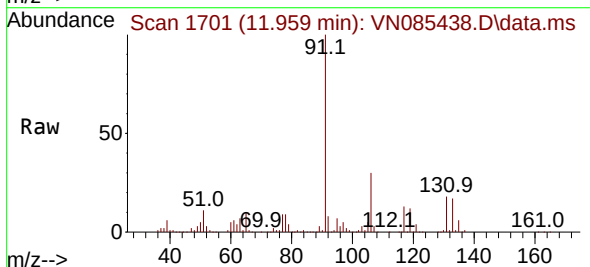
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

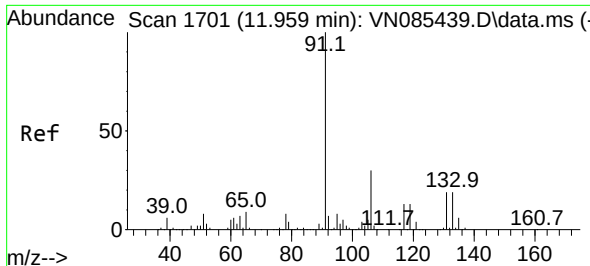
Tgt Ion:112 Resp: 677679
Ion Ratio Lower Upper
112 100
114 32.5 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 100.517 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:131 Resp: 241593
Ion Ratio Lower Upper
131 100
133 94.3 47.4 142.3
119 64.9 33.1 99.5

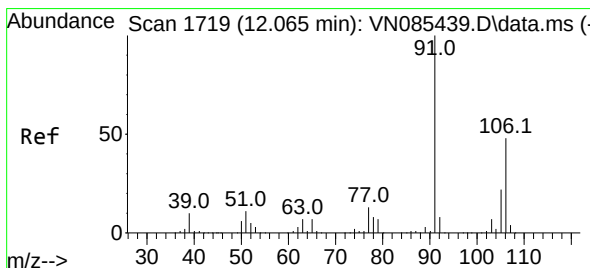
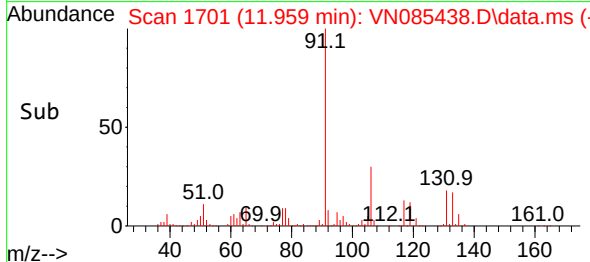
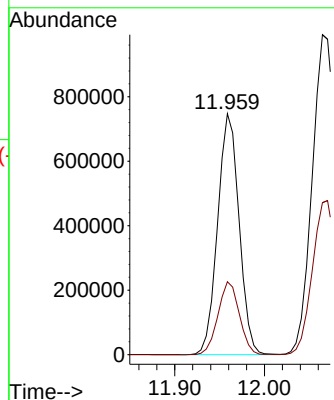
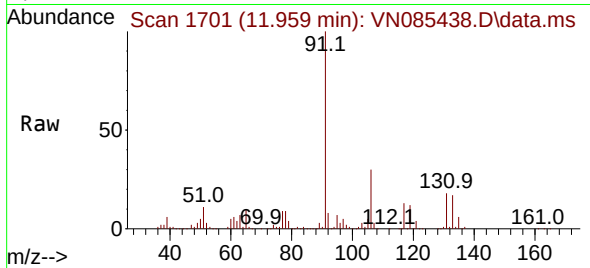




#67
Ethyl Benzene
Concen: 116.169 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

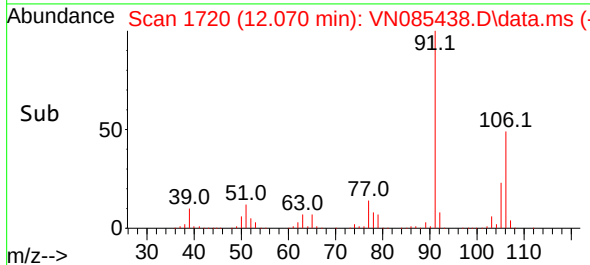
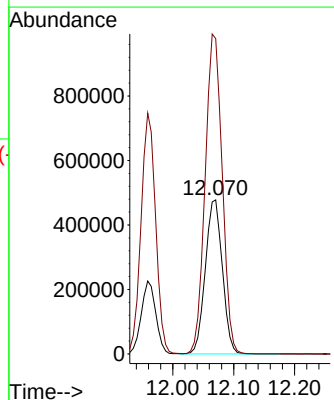
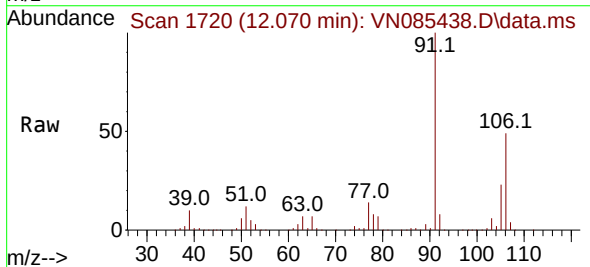
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

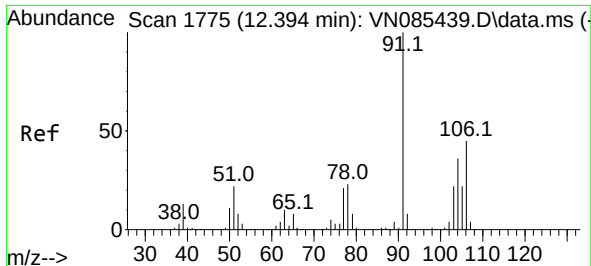
Tgt Ion: 91 Resp: 1239080
Ion Ratio Lower Upper
91 100
106 30.3 23.8 35.8



#68
m/p-Xylenes
Concen: 235.219 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:106 Resp: 927244
Ion Ratio Lower Upper
106 100
91 208.0 167.7 251.5

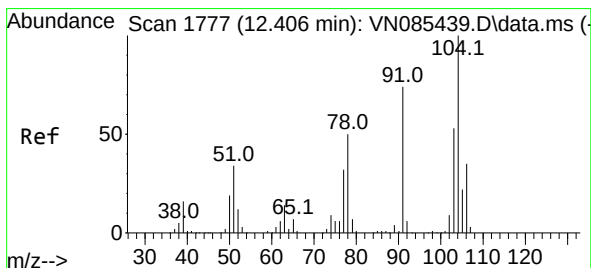
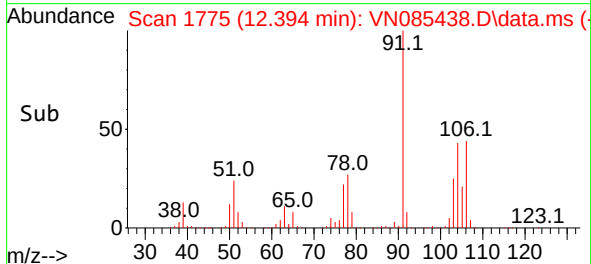
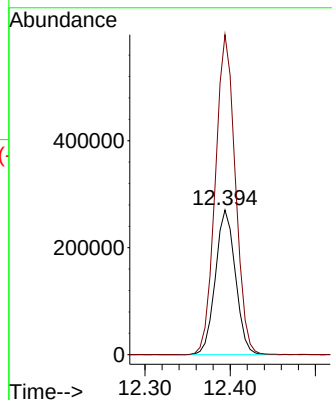
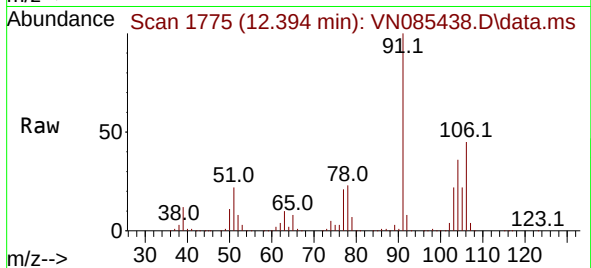




#69
o-Xylene
Concen: 117.135 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

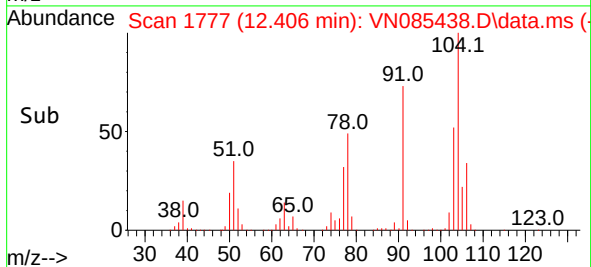
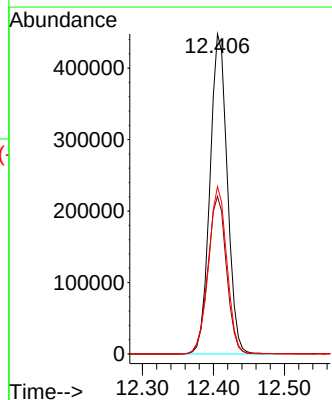
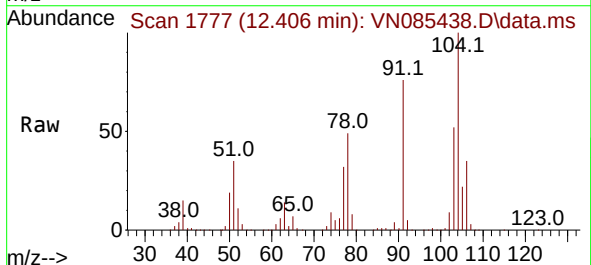
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

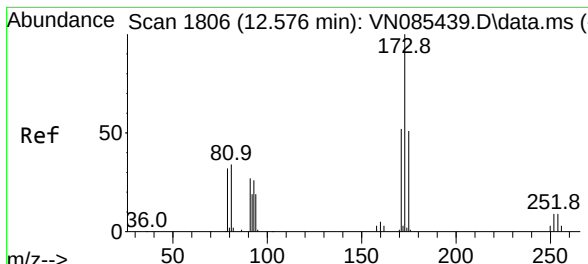
Tgt Ion:106 Resp: 441279
Ion Ratio Lower Upper
106 100
91 221.3 110.4 331.2



#70
Styrene
Concen: 121.919 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:104 Resp: 760136
Ion Ratio Lower Upper
104 100
78 52.8 42.5 63.7
103 55.3 43.8 65.8

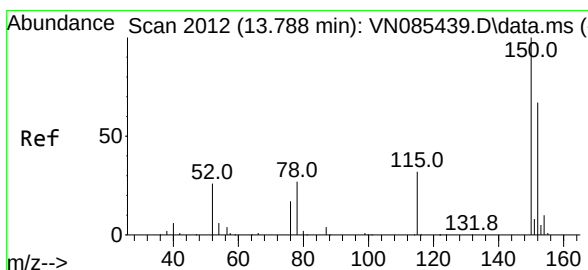
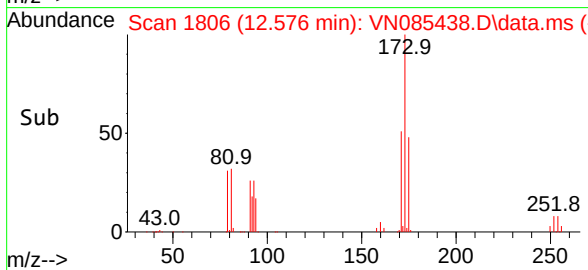
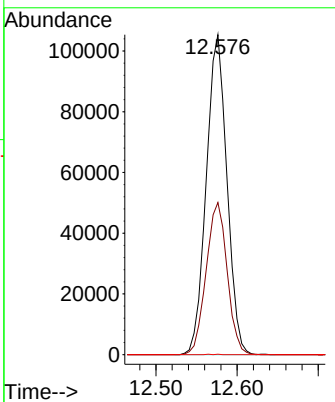
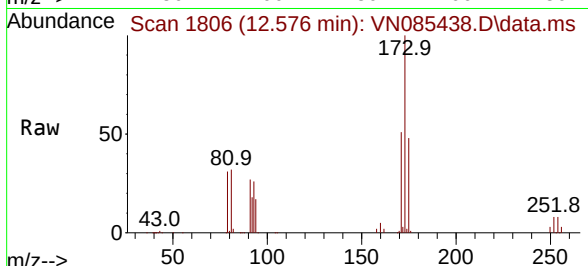




#71
 Bromoform
 Concen: 108.227 ug/l
 RT: 12.576 min Scan# 1806
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

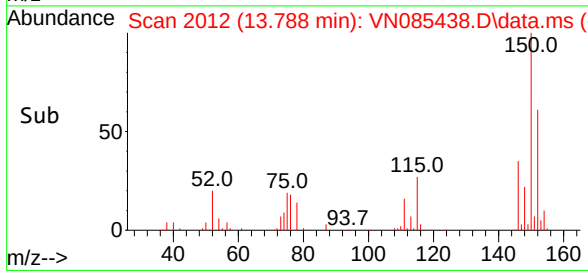
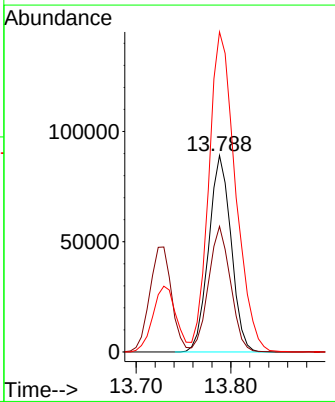
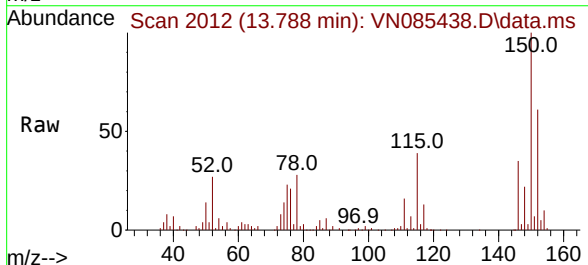
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

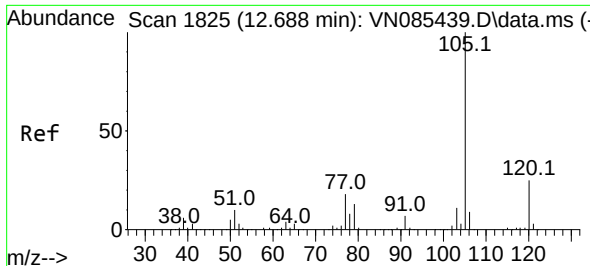
Tgt Ion:	173	Resp:	186124
Ion Ratio	Lower	Upper	
173	100		
175	48.4	24.4	73.2
254	0.1	0.0	0.0#



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion:	152	Resp:	146196
Ion Ratio	Lower	Upper	
152	100		
115	62.7	31.1	93.3
150	193.1	0.0	343.6

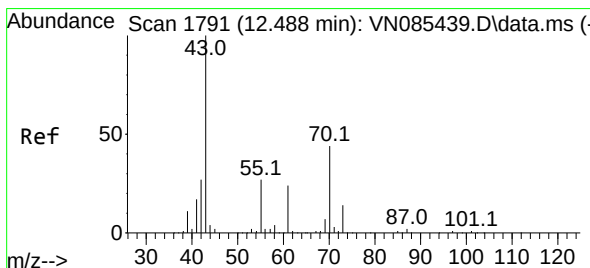
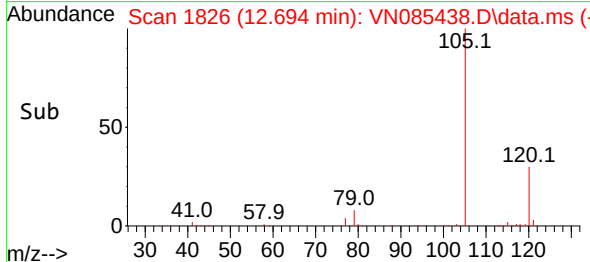
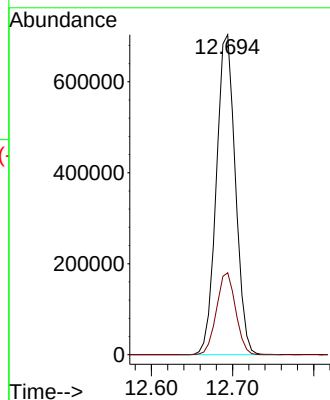
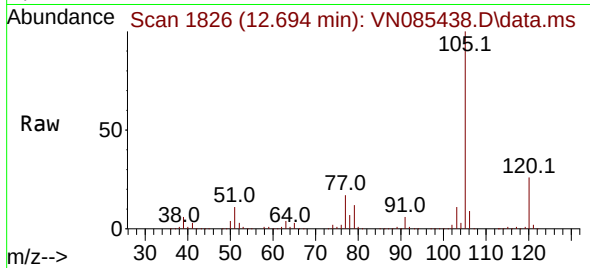




#73
Isopropylbenzene
Concen: 116.221 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

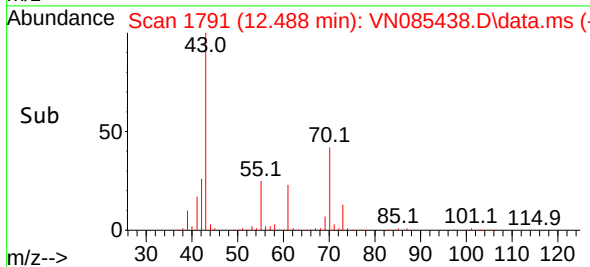
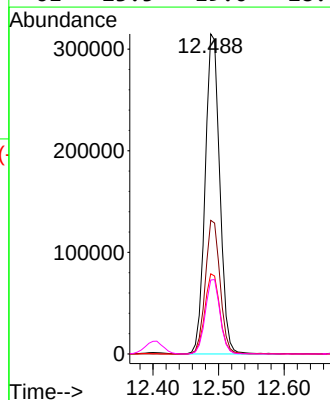
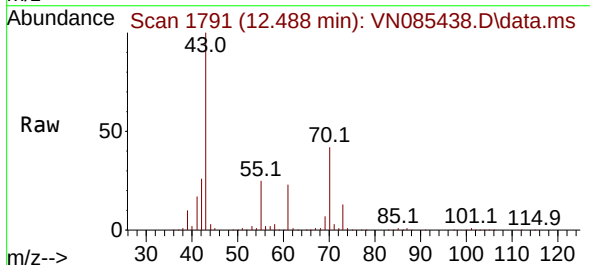
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

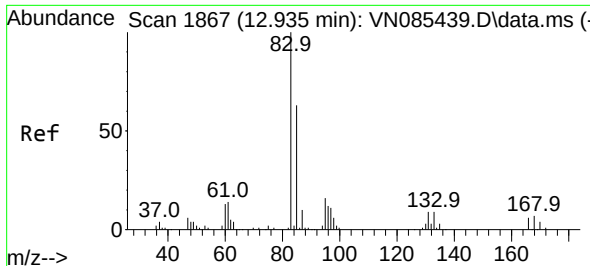
Tgt Ion:105 Resp: 1146752
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.3



#74
N-ethyl acetate
Concen: 110.308 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 43 Resp: 489217
Ion Ratio Lower Upper
43 100
70 41.9 34.0 51.0
55 25.7 21.4 32.2
61 23.5 19.0 28.4

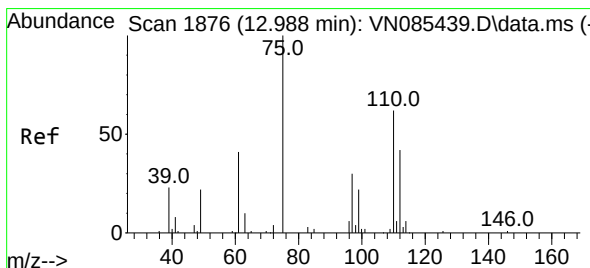
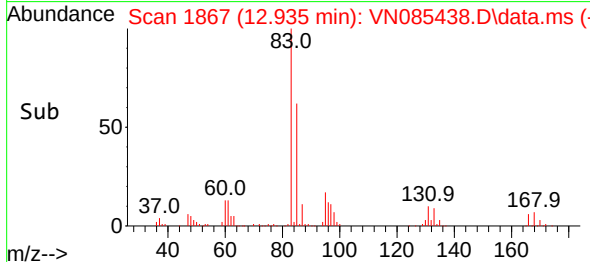
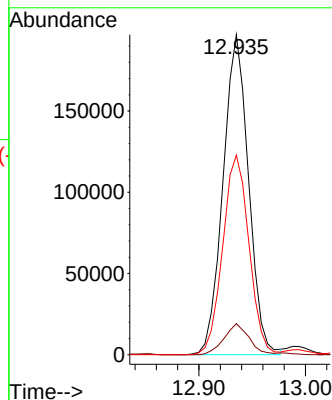
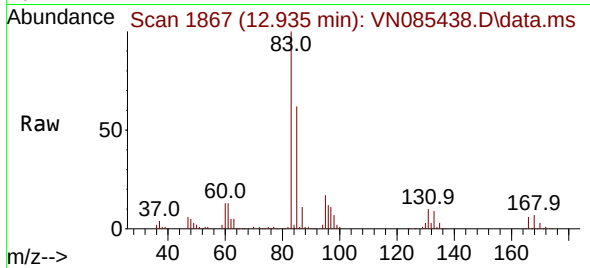




#75
1,1,2,2-Tetrachloroethane
Concen: 94.039 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

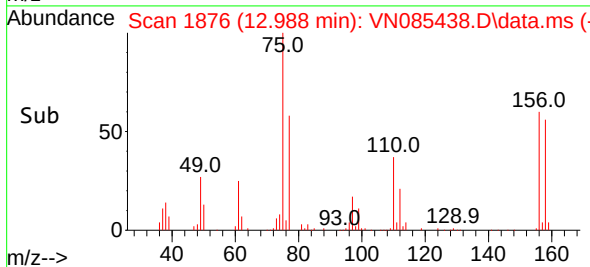
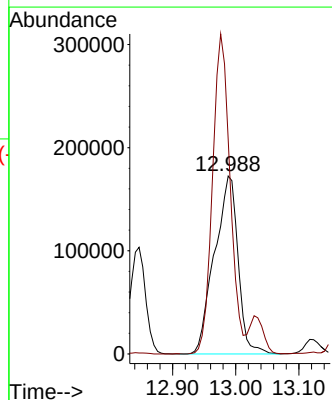
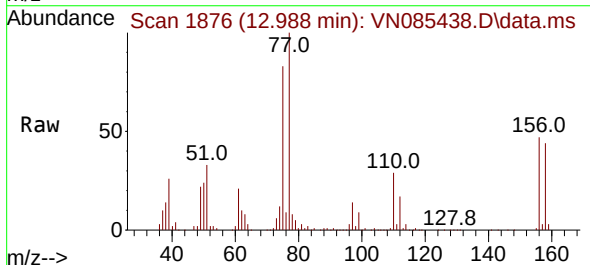
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

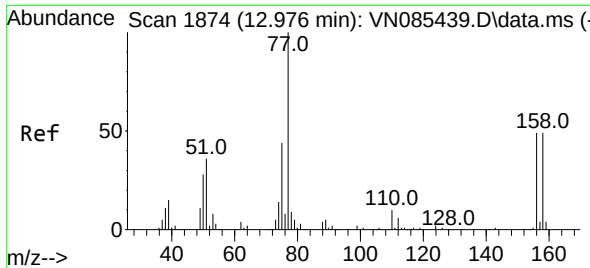
Tgt Ion: 83 Resp: 327767
Ion Ratio Lower Upper
83 100
131 9.8 4.8 14.4
85 64.1 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 150.413 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 446237
Ion Ratio Lower Upper
75 100
77 133.9 109.7 329.2

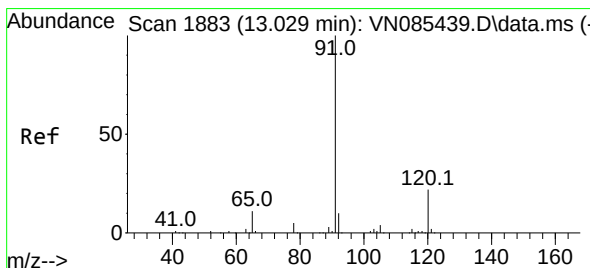
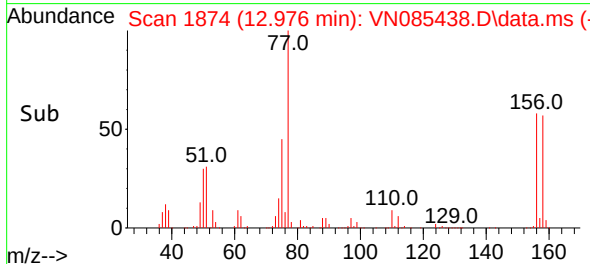
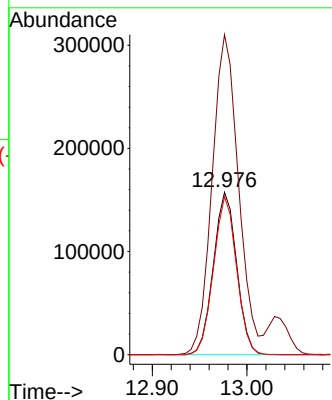
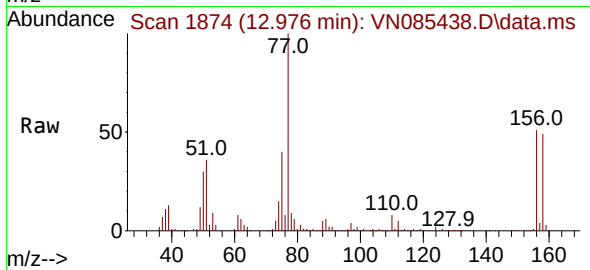




#77
Bromobenzene
Concen: 104.200 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

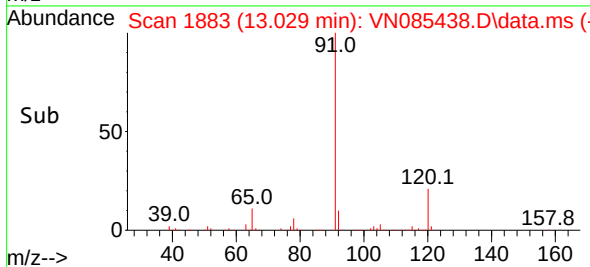
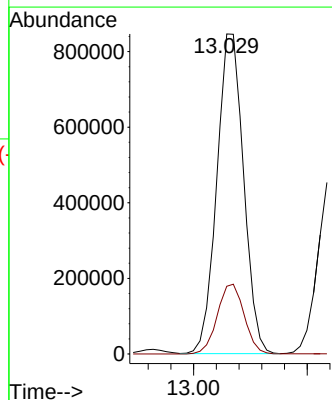
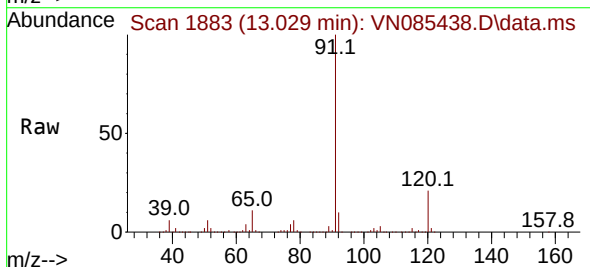
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

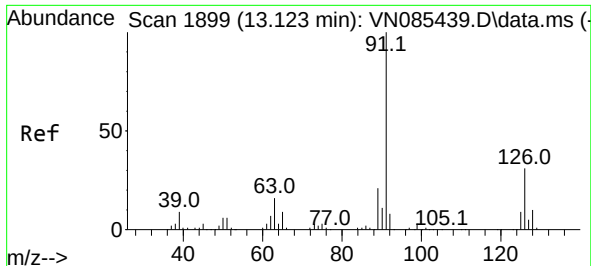
Tgt Ion:156 Resp: 268616
Ion Ratio Lower Upper
156 100
77 222.4 114.1 342.4
158 96.3 48.9 146.8



#78
n-propylbenzene
Concen: 118.600 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 1385353
Ion Ratio Lower Upper
91 100
120 21.8 10.9 32.6

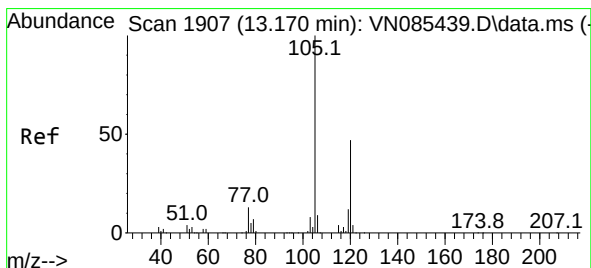
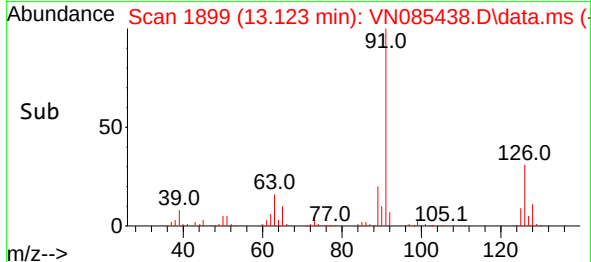
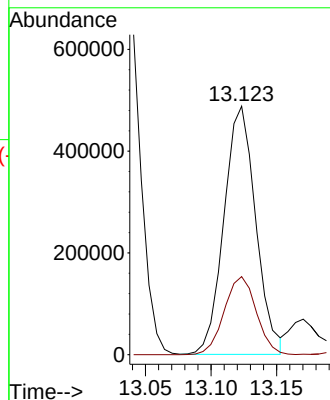
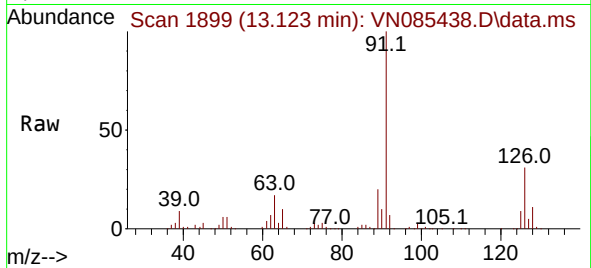




#79
2-Chlorotoluene
Concen: 108.767 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

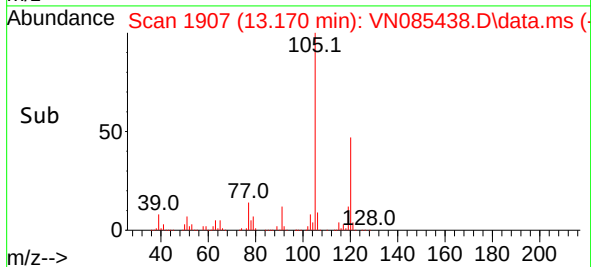
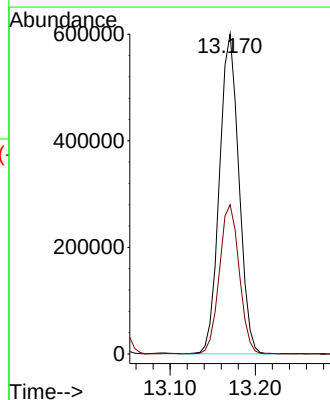
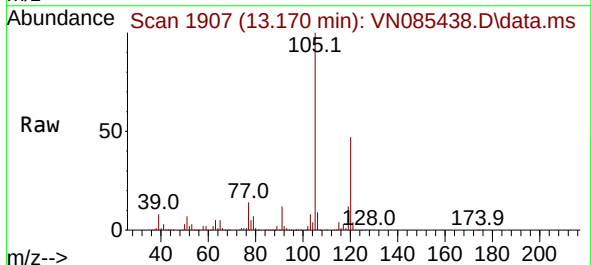
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

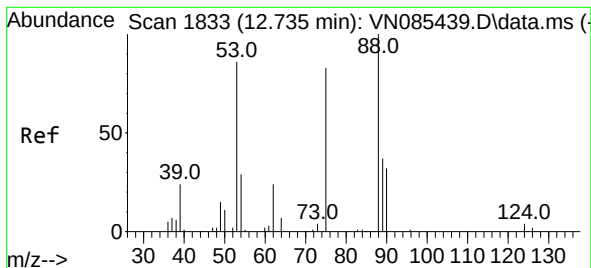
Tgt Ion: 91 Resp: 822258
Ion Ratio Lower Upper
91 100
126 31.8 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 116.938 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 105 Resp: 953066
Ion Ratio Lower Upper
105 100
120 47.8 23.9 71.7

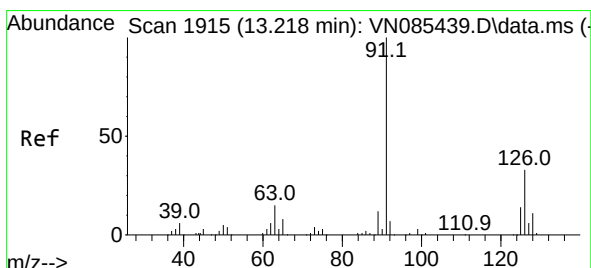
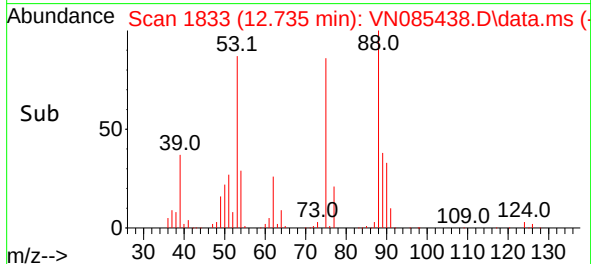
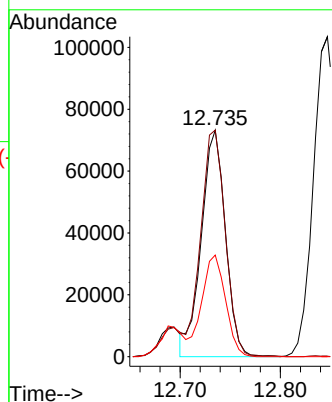
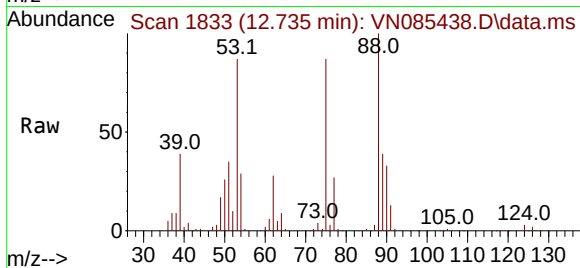




#81
trans-1,4-Dichloro-2-butene
Concen: 111.544 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

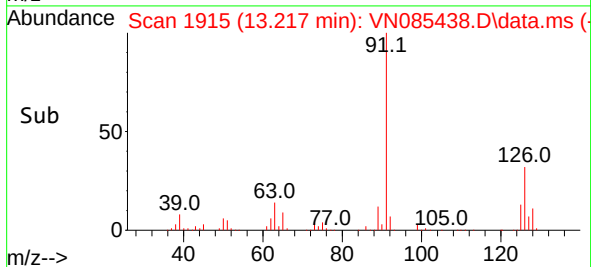
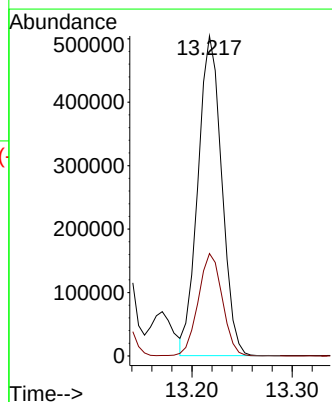
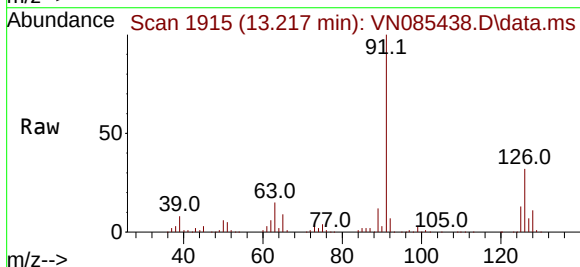
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

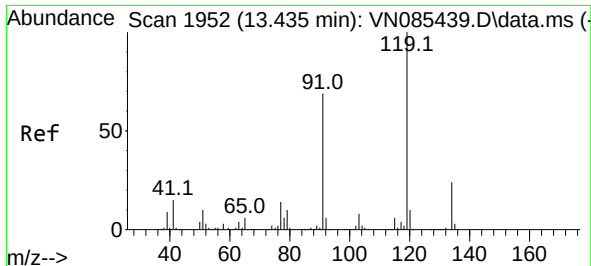
Tgt Ion: 75 Resp: 122508
Ion Ratio Lower Upper
75 100
53 100.9 95.6 143.4
89 44.4 37.0 55.6



#82
4-Chlorotoluene
Concen: 110.574 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 91 Resp: 832317
Ion Ratio Lower Upper
91 100
126 32.5 15.9 47.7

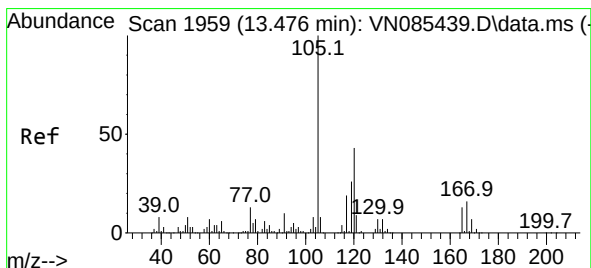
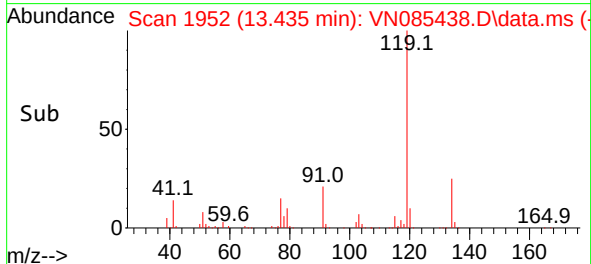
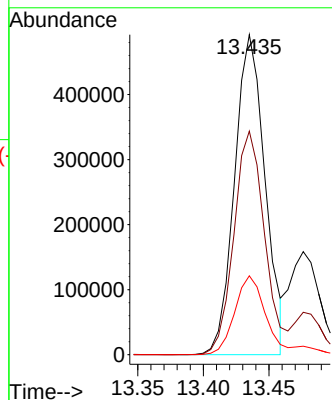
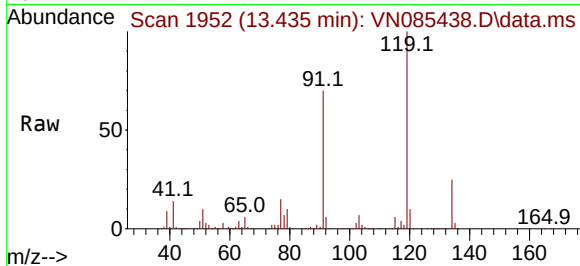




#83
tert-Butylbenzene
Concen: 116.457 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

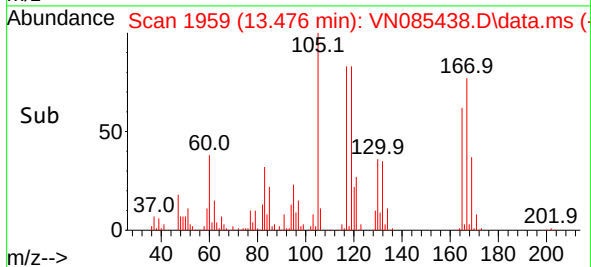
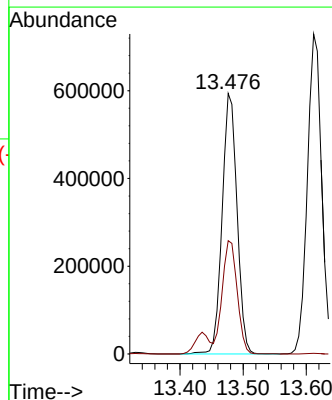
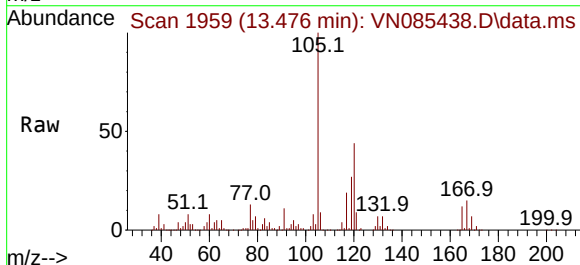
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

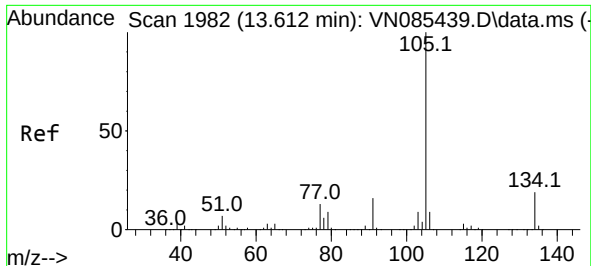
Tgt Ion:119 Resp: 797069
Ion Ratio Lower Upper
119 100
91 70.7 35.1 105.3
134 26.6 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 119.625 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion:105 Resp: 971729
Ion Ratio Lower Upper
105 100
120 43.4 21.6 65.0

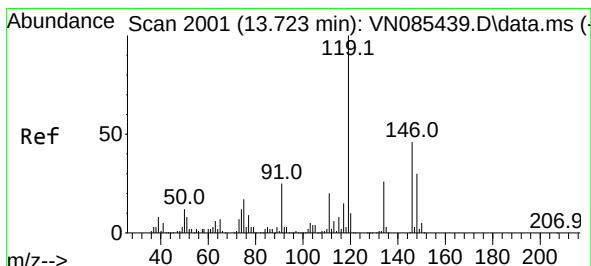
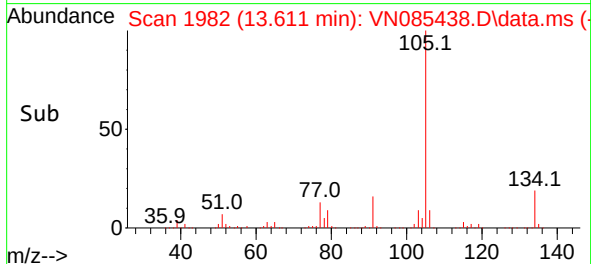
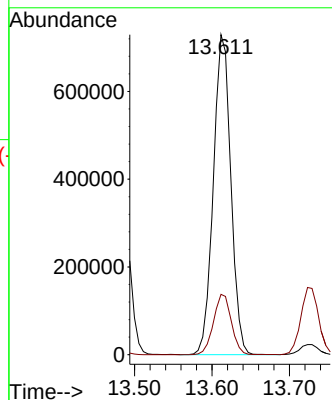
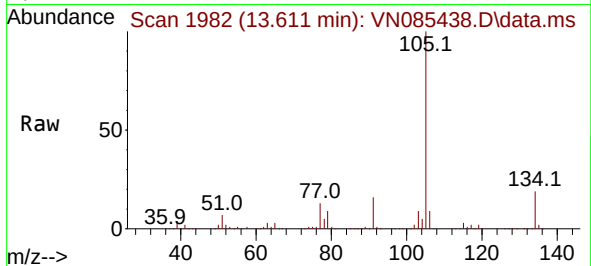




#85
 sec-Butylbenzene
 Concen: 120.587 ug/l
 RT: 13.611 min Scan# 1982
 Delta R.T. -0.001 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

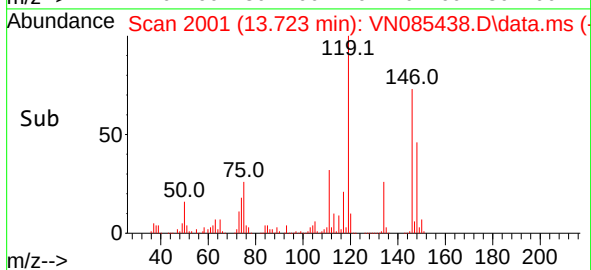
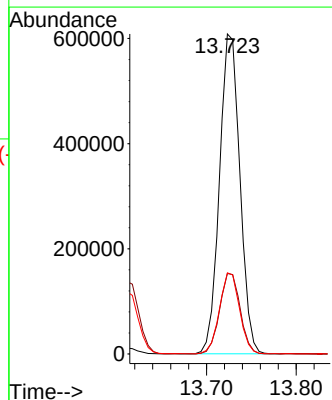
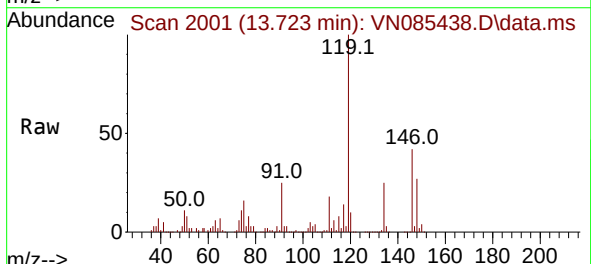
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

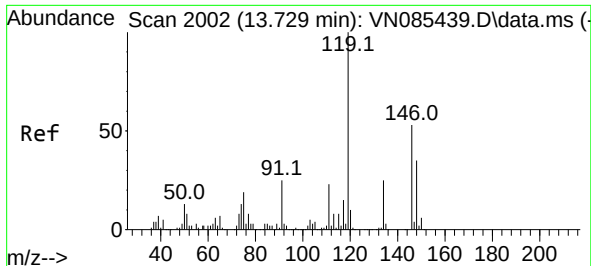
Tgt Ion:105 Resp: 1143885
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 100.111 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion:119 Resp: 960747
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.7 38.0
 91 25.0 12.7 38.1

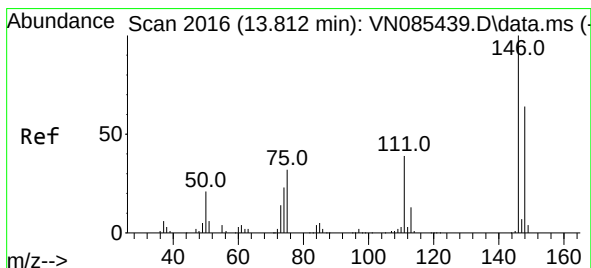
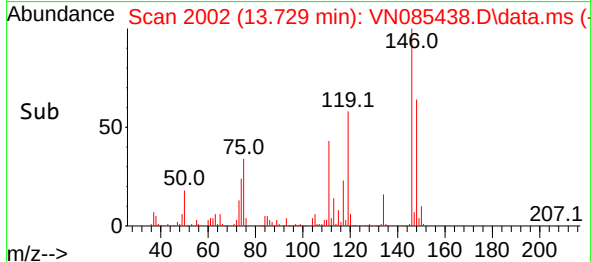
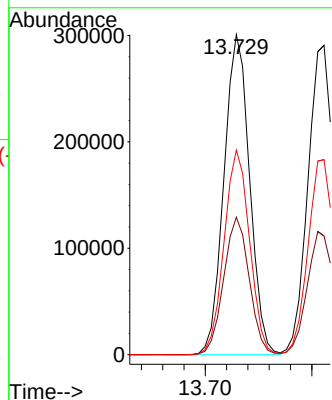
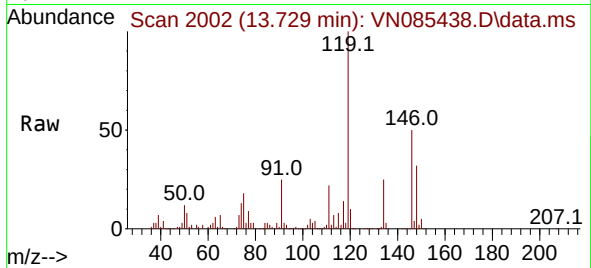




#87
 1,3-Dichlorobenzene
 Concen: 105.943 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

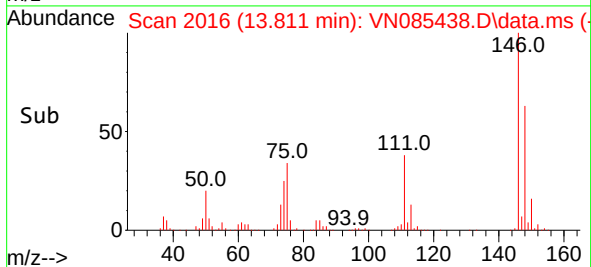
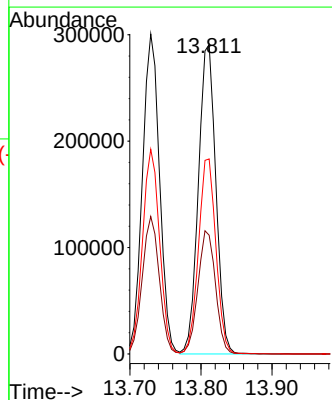
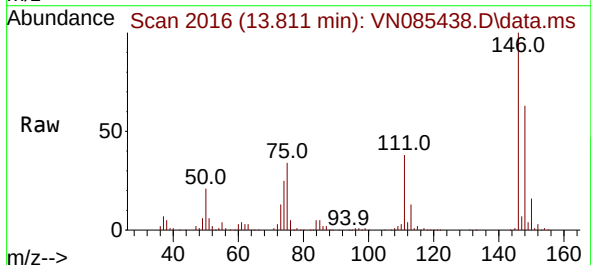
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

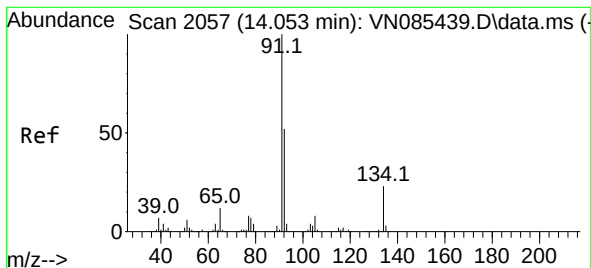
Tgt Ion:146 Resp: 502960
 Ion Ratio Lower Upper
 146 100
 111 42.8 21.4 64.3
 148 63.6 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 101.341 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN085438.D
 Acq: 14 Jan 2025 14:56

Tgt Ion:146 Resp: 498709
 Ion Ratio Lower Upper
 146 100
 111 40.1 21.3 63.7
 148 63.1 32.4 97.0





#89

n-Butylbenzene

Concen: 123.781 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

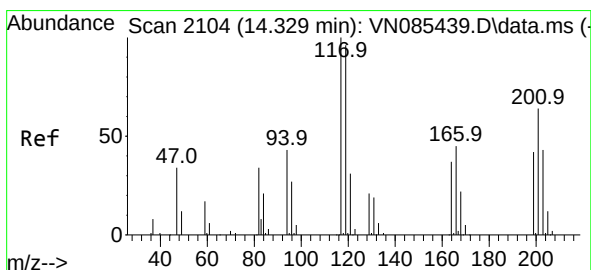
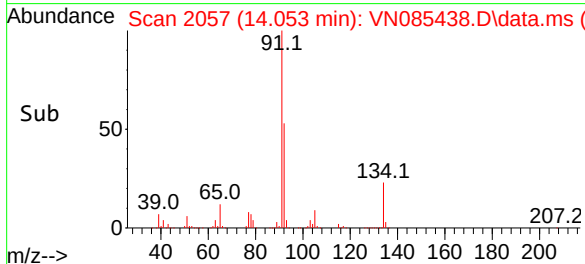
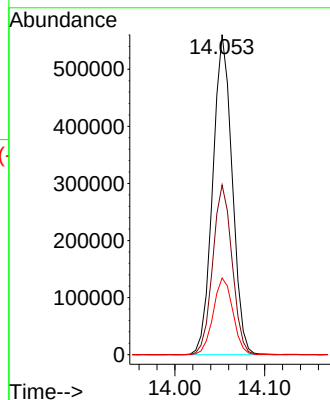
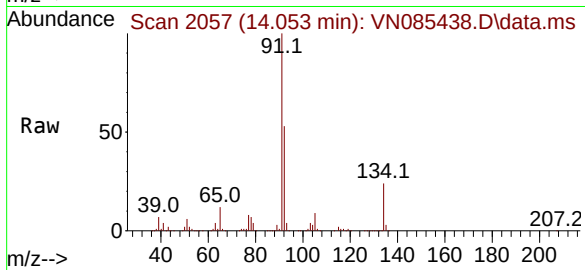
Tgt Ion: 91 Resp: 842368

Ion Ratio Lower Upper

91 100

92 52.8 25.8 77.3

134 24.3 11.7 35.1



#90

Hexachloroethane

Concen: 104.405 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN085438.D

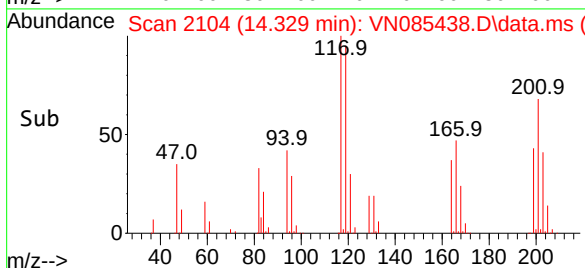
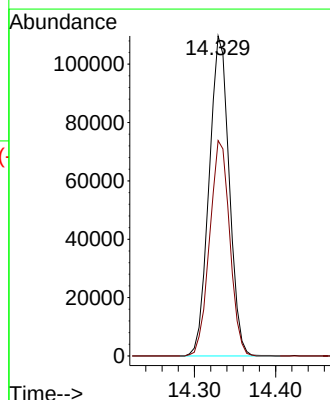
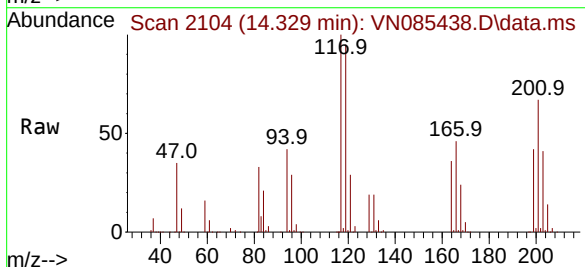
Acq: 14 Jan 2025 14:56

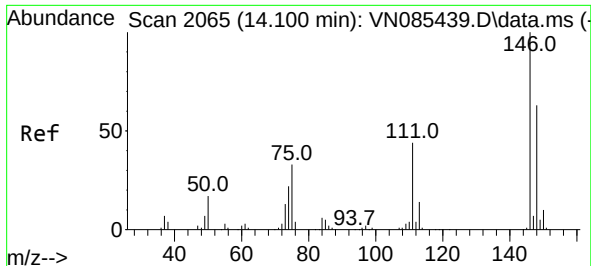
Tgt Ion: 117 Resp: 188541

Ion Ratio Lower Upper

117 100

201 67.2 33.7 101.0

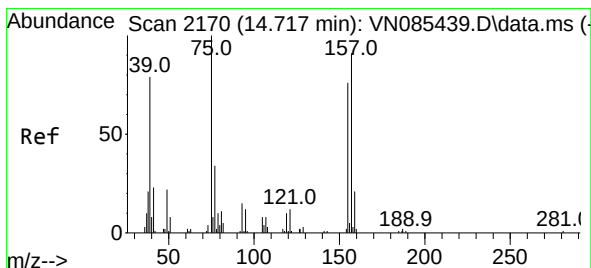
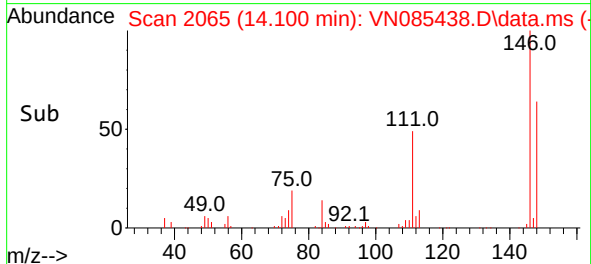
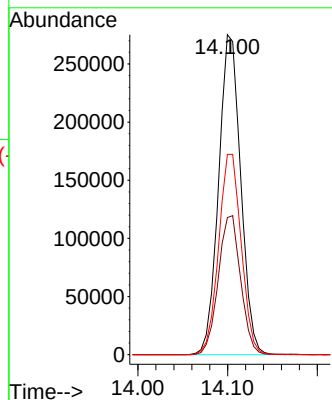
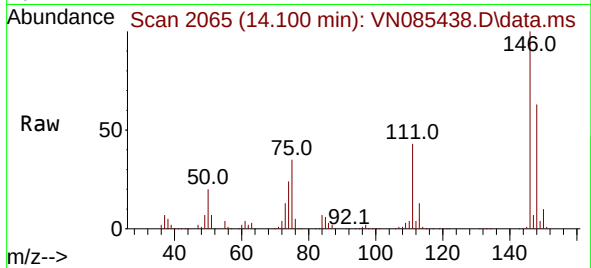




#91
1,2-Dichlorobenzene
Concen: 99.445 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

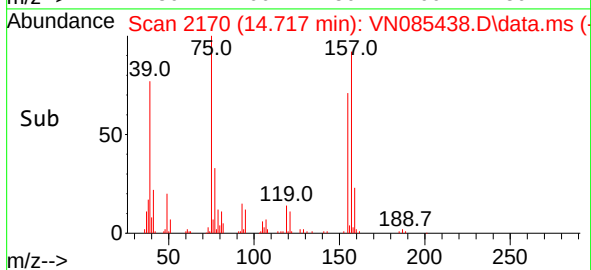
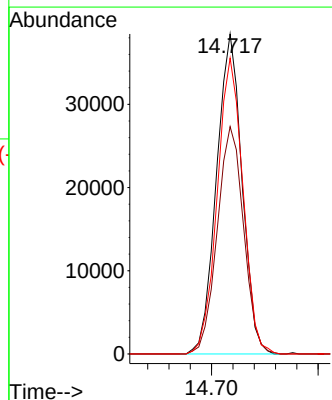
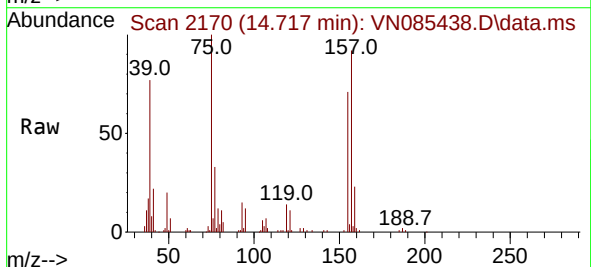
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

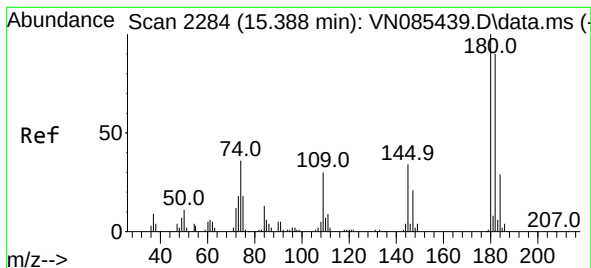
Tgt Ion:146 Resp: 470919
Ion Ratio Lower Upper
146 100
111 43.9 21.7 65.1
148 64.0 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 100.313 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085438.D
Acq: 14 Jan 2025 14:56

Tgt Ion: 75 Resp: 63846
Ion Ratio Lower Upper
75 100
155 73.5 36.4 109.2
157 93.0 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 113.946 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

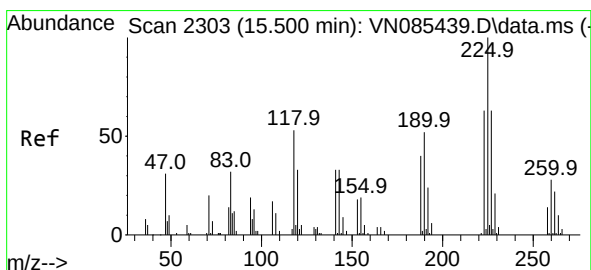
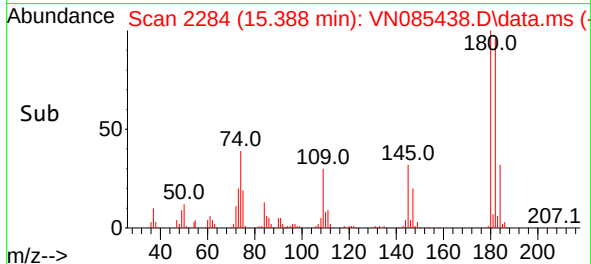
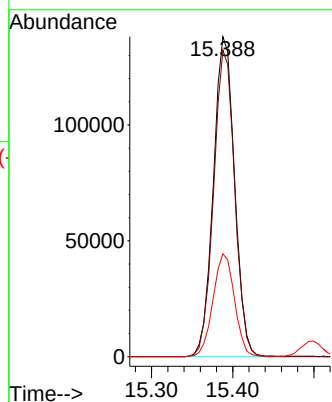
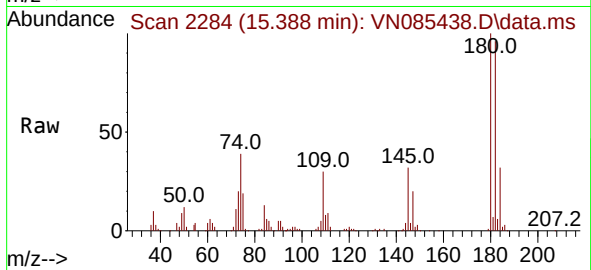
Tgt Ion:180 Resp: 250787

Ion Ratio Lower Upper

180 100

182 94.9 46.8 140.3

145 32.6 16.0 48.0



#94

Hexachlorobutadiene

Concen: 96.619 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

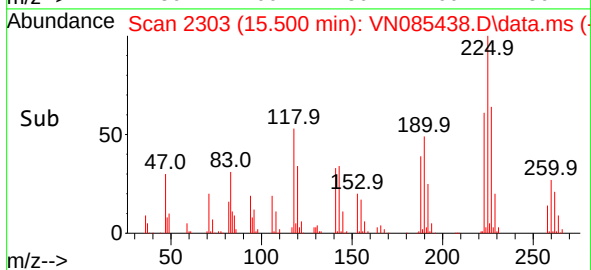
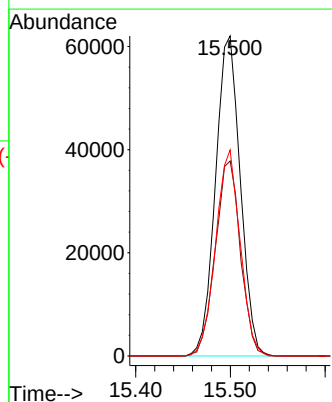
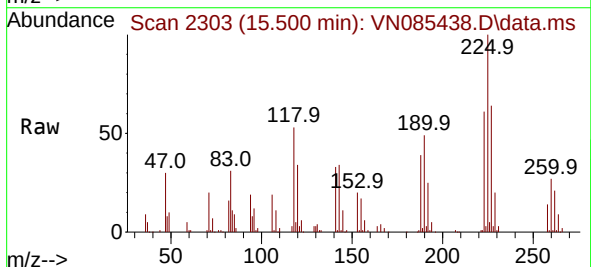
Tgt Ion:225 Resp: 112899

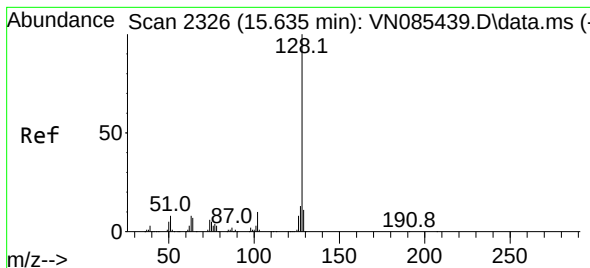
Ion Ratio Lower Upper

225 100

223 61.8 30.7 92.1

227 63.6 30.9 92.5





#95

Naphthalene

Concen: 115.234 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

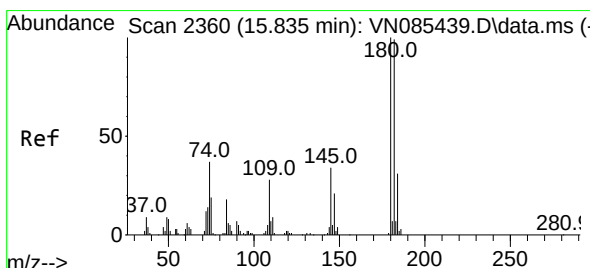
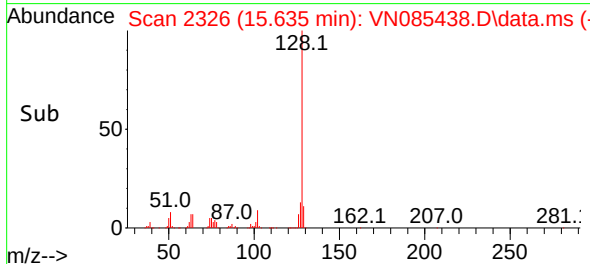
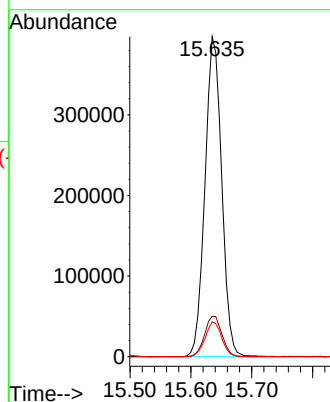
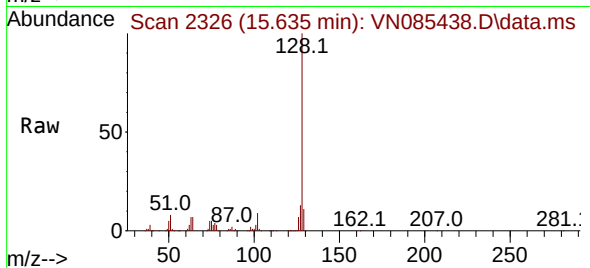
Tgt Ion:128 Resp: 756816

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 10.8 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 107.256 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085438.D

Acq: 14 Jan 2025 14:56

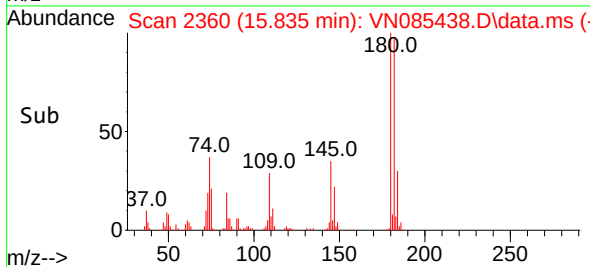
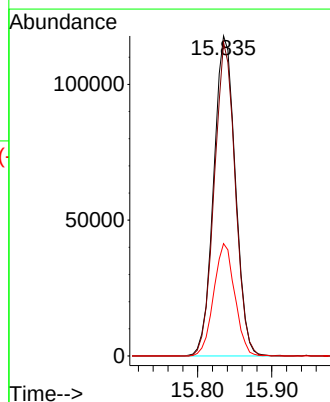
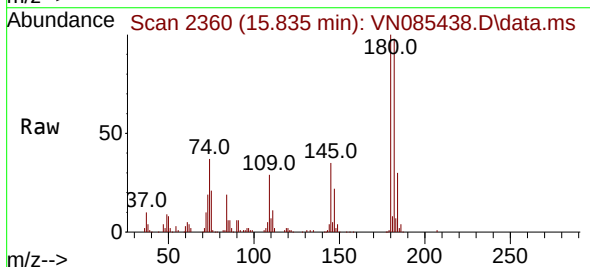
Tgt Ion:180 Resp: 238860

Ion Ratio Lower Upper

180 100

182 95.0 47.4 142.2

145 34.3 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085439.D
 Acq On : 14 Jan 2025 15:19
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	199403	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	339872	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	297366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146624	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	165768	51.500	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.000%	
35) Dibromofluoromethane	8.159	113	121554	51.552	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.100%	
50) Toluene-d8	10.565	98	430698	51.411	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.820%	
62) 4-Bromofluorobenzene	12.847	95	152568	53.239	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 106.480%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	125504	46.486	ug/l	100
3) Chloromethane	2.359	50	135631	46.398	ug/l	100
4) Vinyl Chloride	2.512	62	136831	46.569	ug/l	100
5) Bromomethane	2.953	94	83199	46.877	ug/l	100
6) Chloroethane	3.118	64	84517	45.371	ug/l	100
7) Trichlorofluoromethane	3.501	101	198726	46.613	ug/l	100
8) Diethyl Ether	3.953	74	71764	48.726	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	108081	45.010	ug/l	100
10) Methyl Iodide	4.589	142	143383	52.142	ug/l	100
11) Tert butyl alcohol	5.512	59	92841	251.894	ug/l	100
12) 1,1-Dichloroethene	4.342	96	106247	49.647	ug/l	100
13) Acrolein	4.171	56	139234	276.734	ug/l	100
14) Allyl chloride	5.018	41	168654	48.567	ug/l	100
15) Acrylonitrile	5.712	53	296781	253.507	ug/l	100
16) Acetone	4.418	43	251271	241.603	ug/l	100
17) Carbon Disulfide	4.706	76	294604	44.710	ug/l	100
18) Methyl Acetate	5.018	43	157485	49.798	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	373561	53.758	ug/l	100
20) Methylene Chloride	5.271	84	125508	48.748	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	110684	48.395	ug/l	100
22) Diisopropyl ether	6.665	45	406253	52.707	ug/l	100
23) Vinyl Acetate	6.594	43	1491031	275.471	ug/l	100
24) 1,1-Dichloroethane	6.565	63	233336	49.648	ug/l	100
25) 2-Butanone	7.477	43	388457	253.815	ug/l	100
26) 2,2-Dichloropropane	7.483	77	186591	49.106	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	136229	50.571	ug/l	100
28) Bromochloromethane	7.806	49	108148	49.461	ug/l	100
29) Tetrahydrofuran	7.830	42	259683	267.624	ug/l	100
30) Chloroform	7.959	83	234271	48.229	ug/l	100
31) Cyclohexane	8.253	56	175588	42.984	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	202590	47.547	ug/l	100
36) 1,1-Dichloropropene	8.365	75	157031	47.453	ug/l	100
37) Ethyl Acetate	7.553	43	165866	49.658	ug/l	100
38) Carbon Tetrachloride	8.359	117	180199	47.564	ug/l	100
39) Methylcyclohexane	9.600	83	157234	50.562	ug/l	100
40) Benzene	8.600	78	492606	49.542	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085439.D
 Acq On : 14 Jan 2025 15:19
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	91711	52.775	ug/l	100
42) 1,2-Dichloroethane	8.665	62	186065	49.685	ug/l	100
43) Isopropyl Acetate	8.683	43	276228	51.611	ug/l	100
44) Trichloroethene	9.347	130	109953	47.506	ug/l	100
45) 1,2-Dichloropropane	9.618	63	126084	49.644	ug/l	100
46) Dibromomethane	9.706	93	90670	49.476	ug/l	100
47) Bromodichloromethane	9.882	83	189915	50.867	ug/l	100
48) Methyl methacrylate	9.677	41	133399	55.385	ug/l	100
49) 1,4-Dioxane	9.688	88	43048	1061.334	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	836707	269.403	ug/l	100
52) Toluene	10.624	92	295792	51.341	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	187439	53.125	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	199771	53.006	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	115462	50.641	ug/l	100
56) Ethyl methacrylate	10.871	69	184775	48.182	ug/l	100
57) 1,3-Dichloropropane	11.159	76	204590	51.606	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	409594	283.088	ug/l	100
59) 2-Hexanone	11.188	43	606740	277.643	ug/l	100
60) Dibromochloromethane	11.353	129	140704	51.116	ug/l	100
61) 1,2-Dibromoethane	11.465	107	113541	50.028	ug/l	100
64) Tetrachloroethene	11.100	164	95879	47.295	ug/l	100
65) Chlorobenzene	11.888	112	319992	49.121	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116488	48.722	ug/l	100
67) Ethyl Benzene	11.959	91	555322	52.339	ug/l	100
68) m/p-Xylenes	12.065	106	420702	107.286	ug/l	100
69) o-Xylene	12.394	106	202597	54.062	ug/l	100
70) Styrene	12.406	104	348720	56.227	ug/l	100
71) Bromoform	12.576	173	92366	53.993	ug/l #	100
73) Isopropylbenzene	12.688	105	505619	51.094	ug/l	100
74) N-amyl acetate	12.488	43	237870	53.478	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	167856	48.019	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	219507	73.773	ug/l	45
77) Bromobenzene	12.976	156	125800	48.657	ug/l	100
78) n-propylbenzene	13.029	91	609022	51.986	ug/l	100
79) 2-Chlorotoluene	13.123	91	378981	49.985	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	431021	52.730	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57184	51.914	ug/l	100
82) 4-Chlorotoluene	13.218	91	379524	50.273	ug/l	100
83) tert-Butylbenzene	13.435	119	357563	52.090	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	442175	54.275	ug/l	100
85) sec-Butylbenzene	13.612	105	501561	52.719	ug/l	100
86) p-Isopropyltoluene	13.723	119	421052	49.240	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	229518	48.204	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	229084	46.416	ug/l	100
89) n-Butylbenzene	14.053	91	364111	53.348	ug/l	100
90) Hexachloroethane	14.329	117	84602	46.712	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	228024	48.012	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32536	50.971	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	114468	51.857	ug/l	100
94) Hexachlorobutadiene	15.500	225	53846	45.947	ug/l	100
95) Naphthalene	15.635	128	363882	55.243	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	115251	51.601	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085439.D
Acq On : 14 Jan 2025 15:19
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

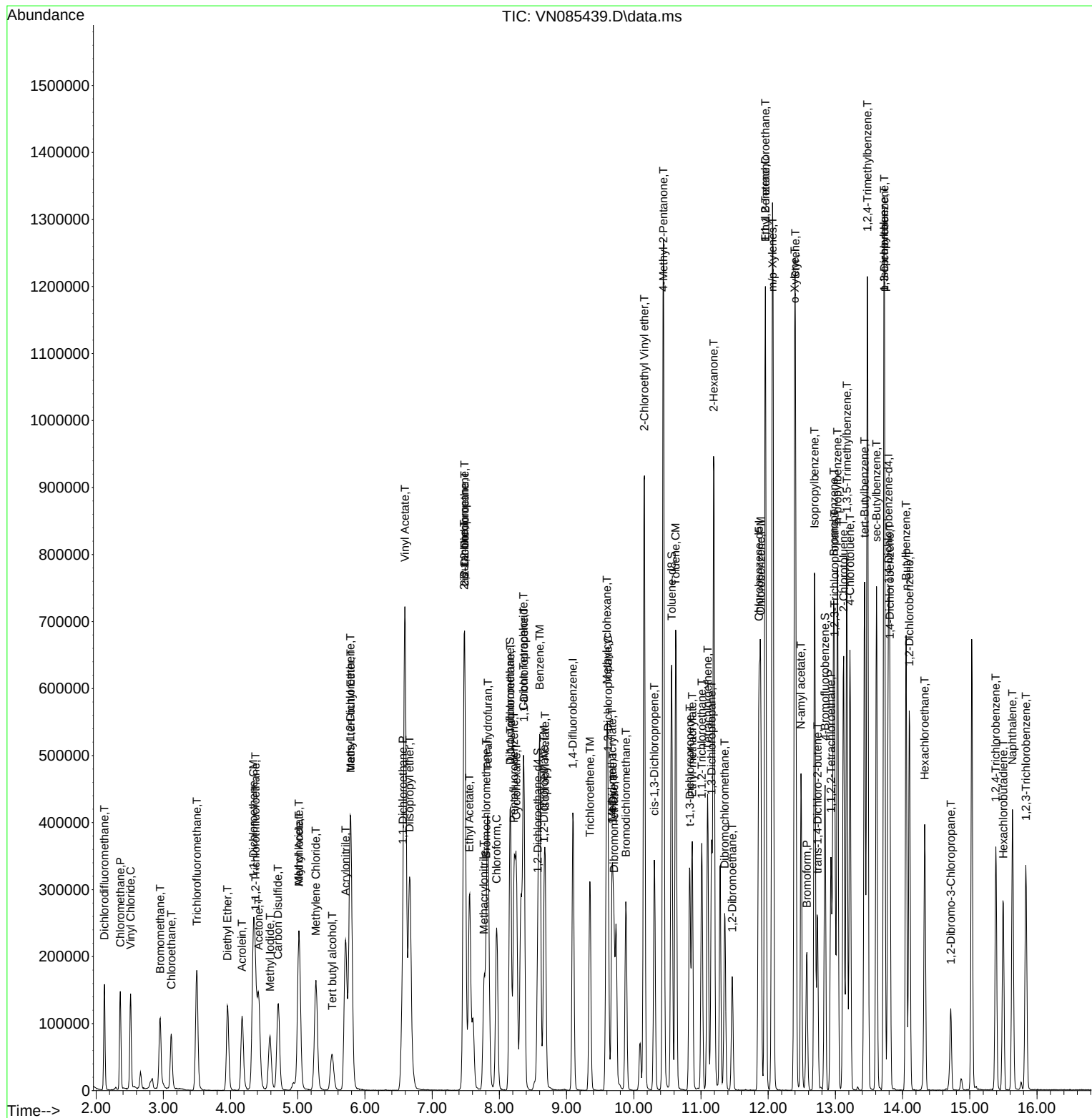
Quant Time: Jan 15 01:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

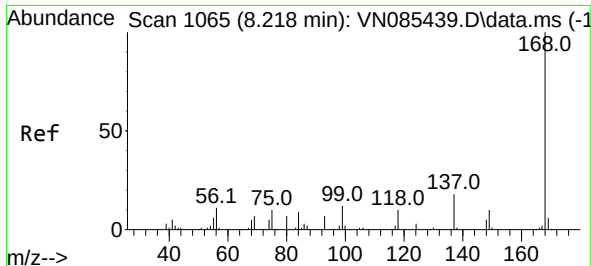
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jan 15 01:42:13 2025
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Quant Title : SW846 8260
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Response via : Initial Calibration

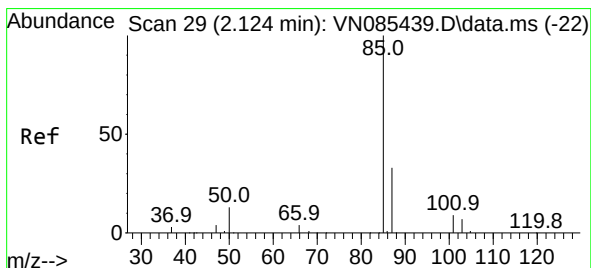
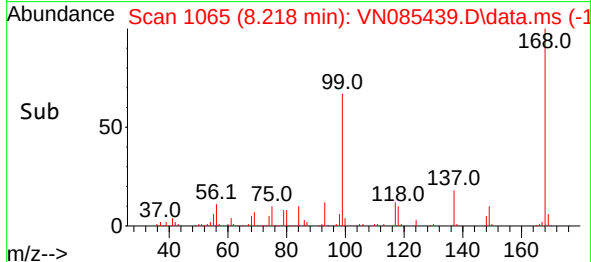
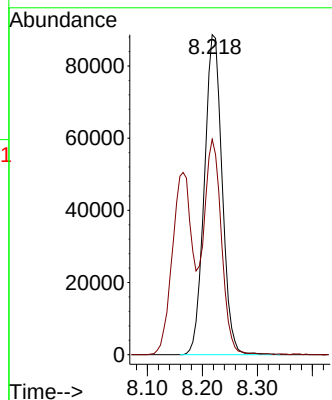
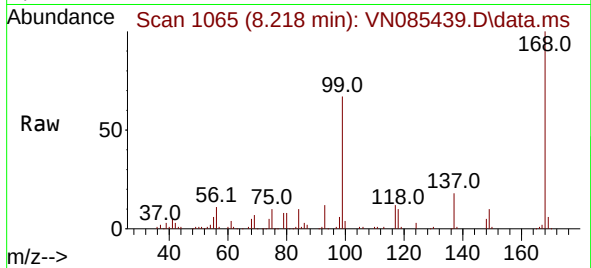




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

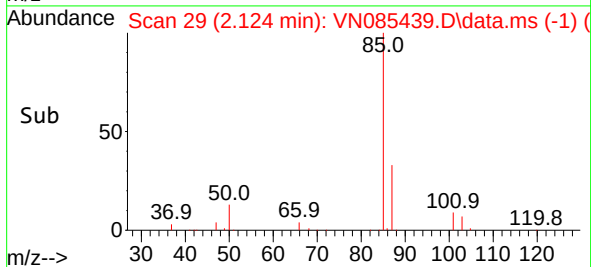
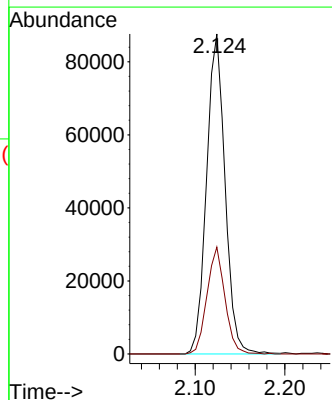
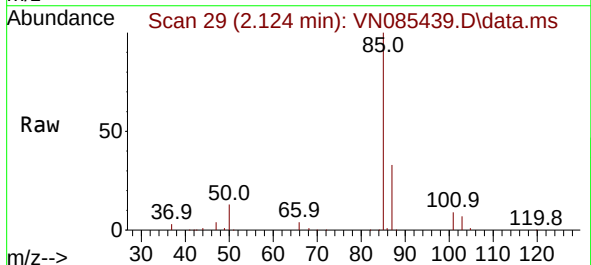
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

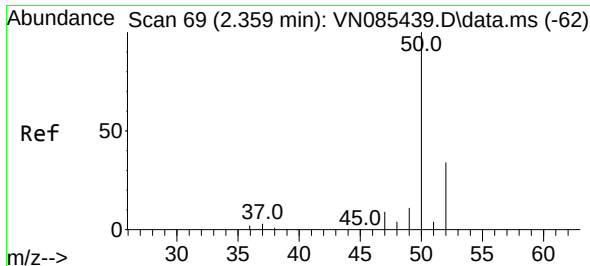
Tgt Ion:168 Resp: 199403
Ion Ratio Lower Upper
168 100
99 67.0 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 46.486 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 85 Resp: 125504
Ion Ratio Lower Upper
85 100
87 33.4 16.7 50.1

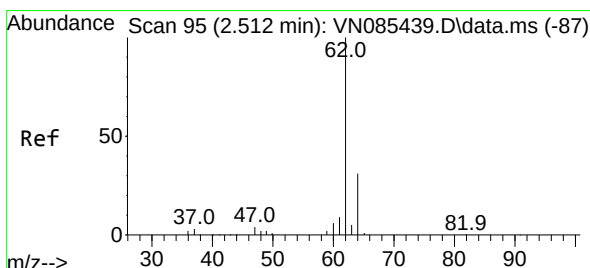
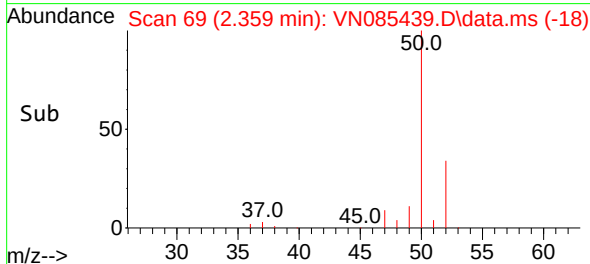
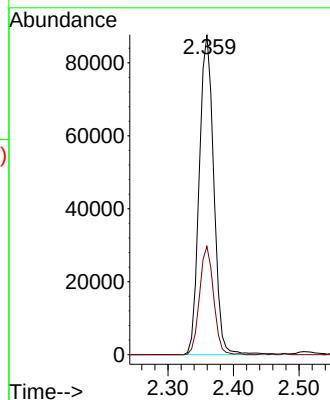
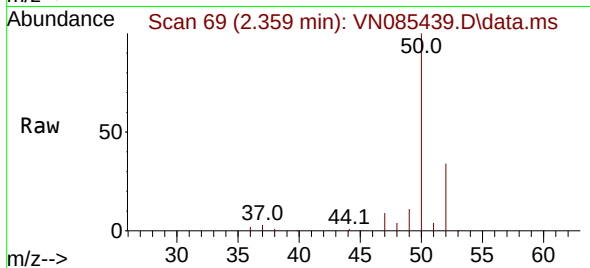




#3
Chloromethane
Concen: 46.398 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

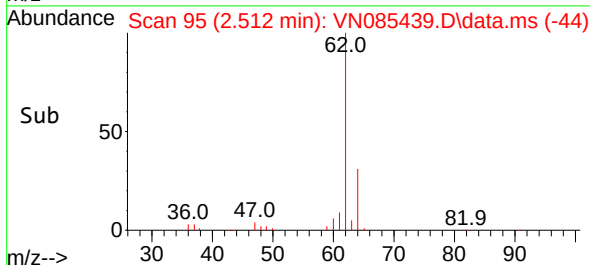
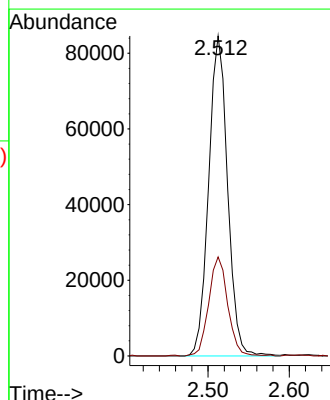
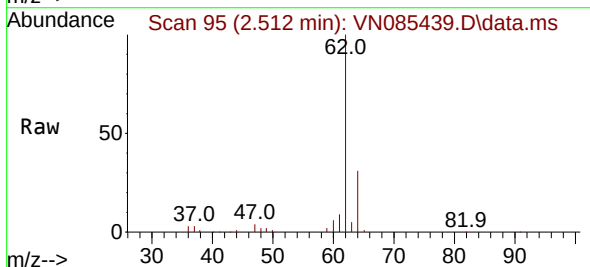
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ClientSampleId :
VSTDICCC050

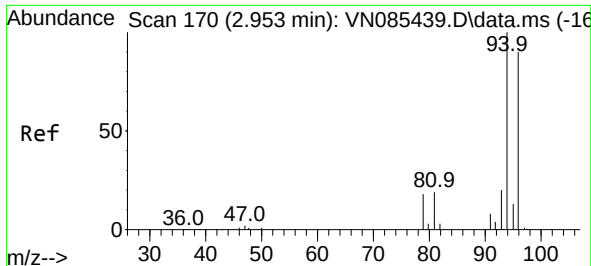
Tgt Ion: 50 Resp: 135631
Ion Ratio Lower Upper
50 100
52 33.8 27.0 40.6



#4
Vinyl Chloride
Concen: 46.569 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 62 Resp: 136831
Ion Ratio Lower Upper
62 100
64 31.0 24.8 37.2

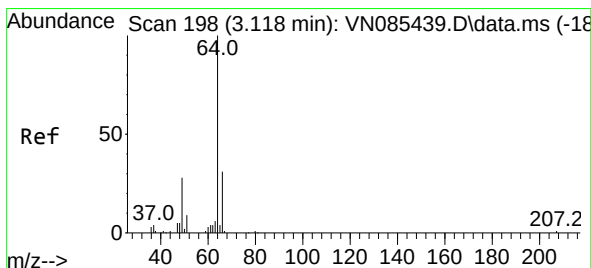
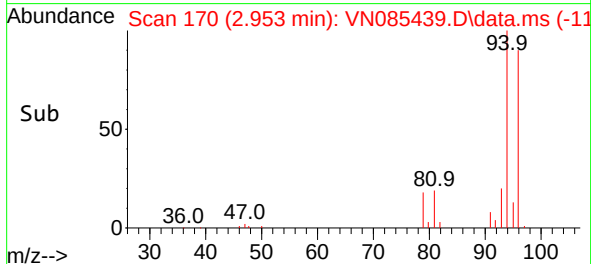
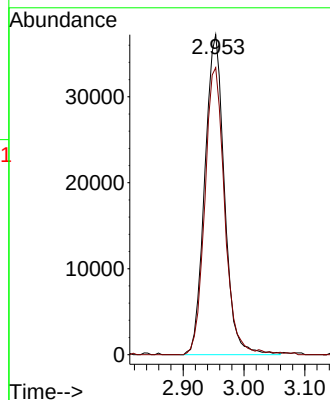
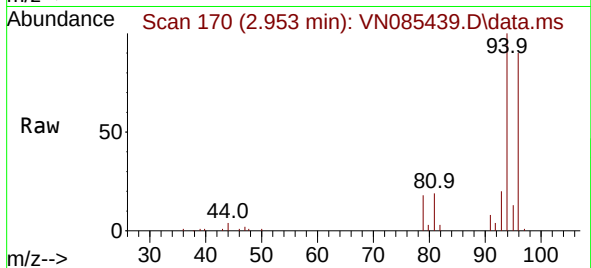




#5
Bromomethane
Concen: 46.877 ug/l
RT: 2.953 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

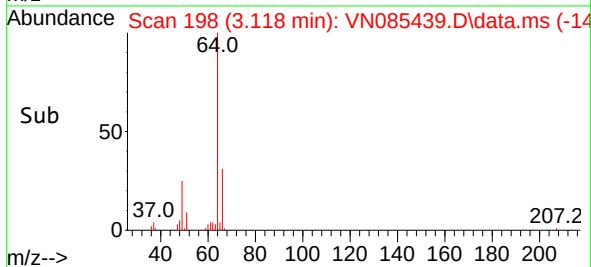
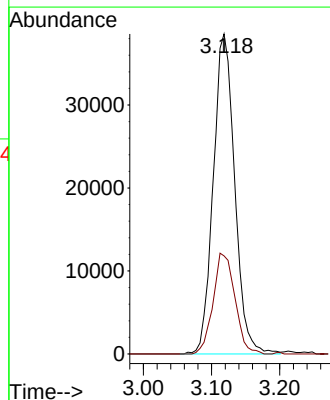
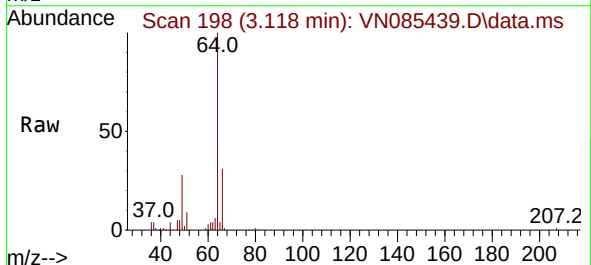
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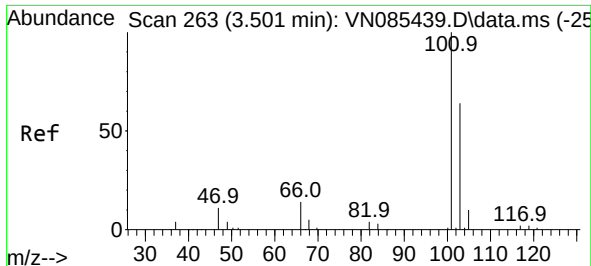
Tgt Ion: 94 Resp: 83199
Ion Ratio Lower Upper
94 100
96 89.7 71.8 107.6



#6
Chloroethane
Concen: 45.371 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 64 Resp: 84517
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8

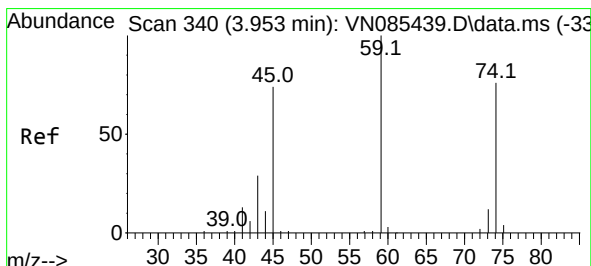
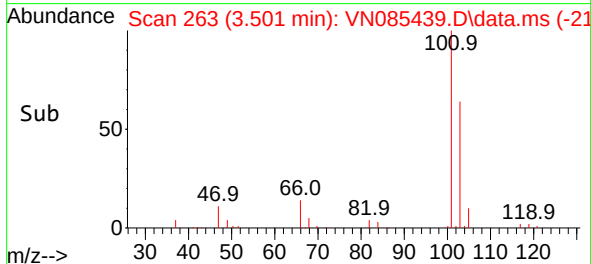
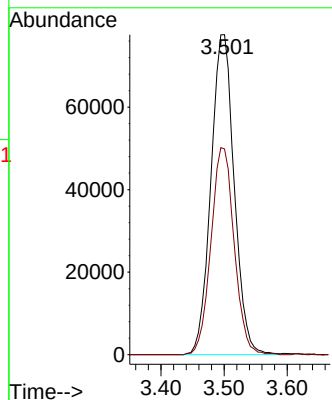
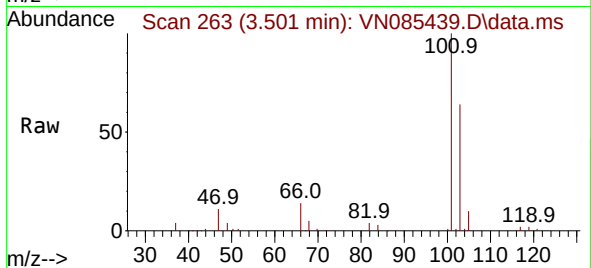




#7
Trichlorofluoromethane
Concen: 46.613 ug/l
RT: 3.501 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

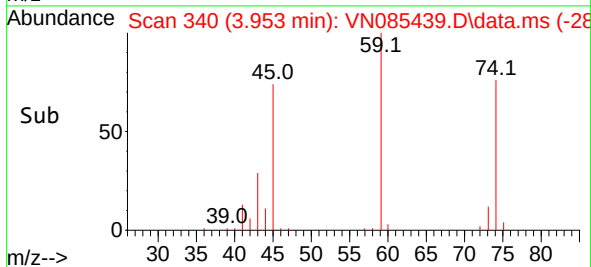
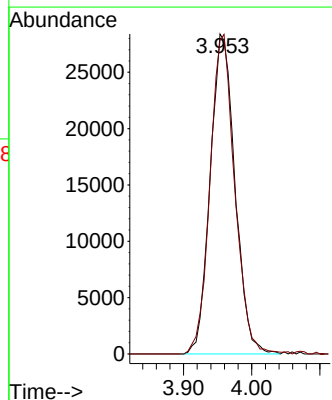
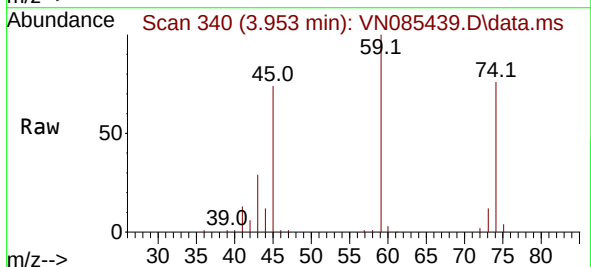
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

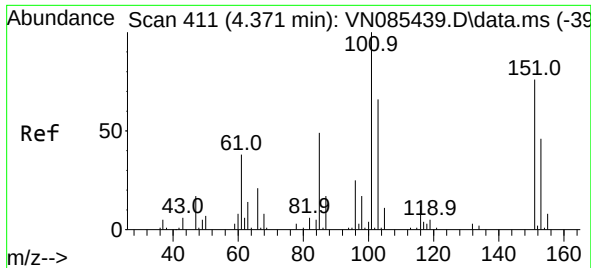
Tgt Ion:101 Resp: 198726
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2



#8
Diethyl Ether
Concen: 48.726 ug/l
RT: 3.953 min Scan# 340
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 74 Resp: 71764
Ion Ratio Lower Upper
74 100
45 99.4 49.7 149.1

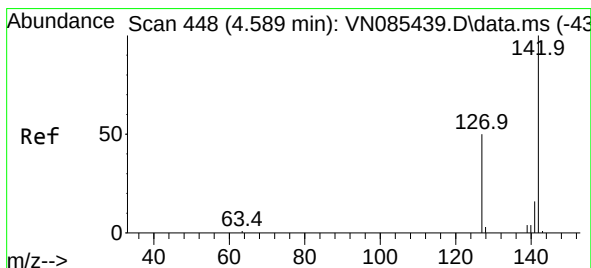
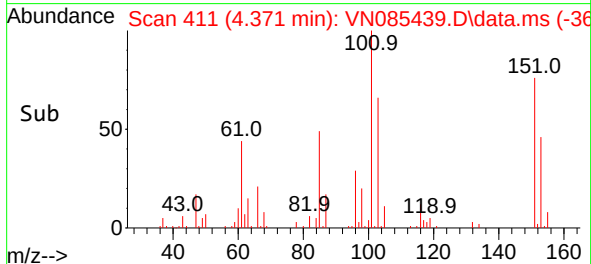
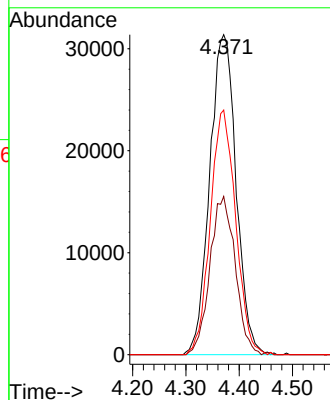
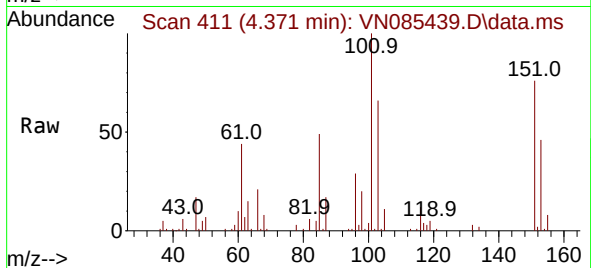




#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.010 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

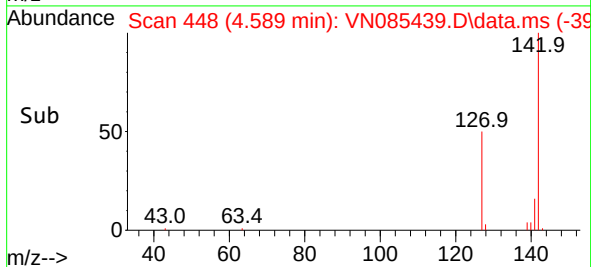
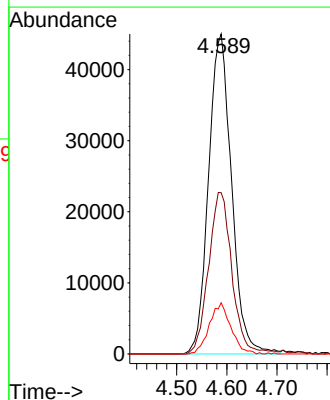
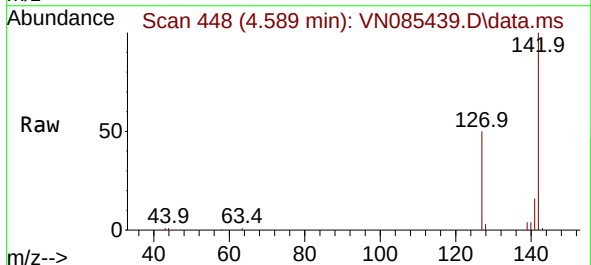
Instrument :
MSVOA_N
ClientSampleId :
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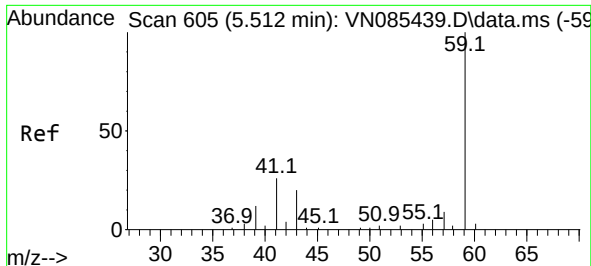
Tgt Ion:101	Resp: 108081
Ion Ratio	Lower Upper
101 100	
85 47.3	37.8 56.8
151 73.5	58.8 88.2



#10
Methyl Iodide
Concen: 52.142 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:142	Resp: 143383
Ion Ratio	Lower Upper
142 100	
127 50.4	40.3 60.5
141 16.0	12.8 19.2

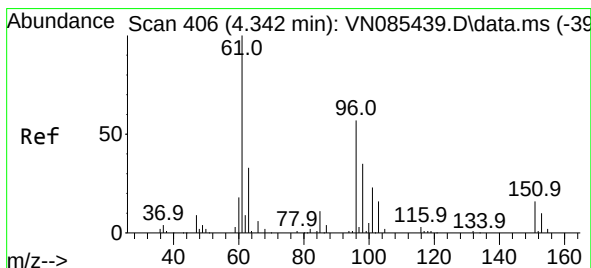
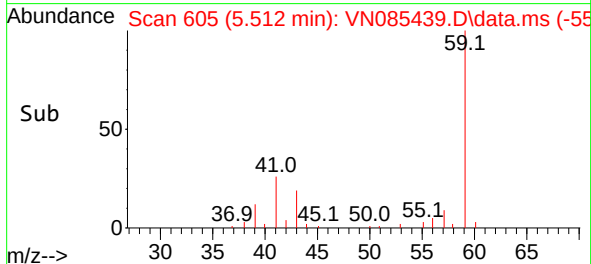
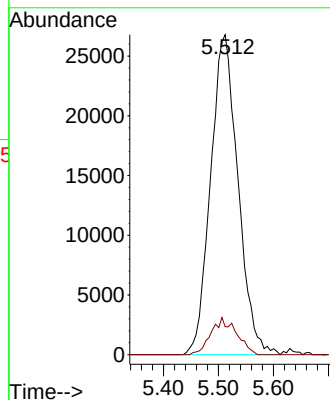
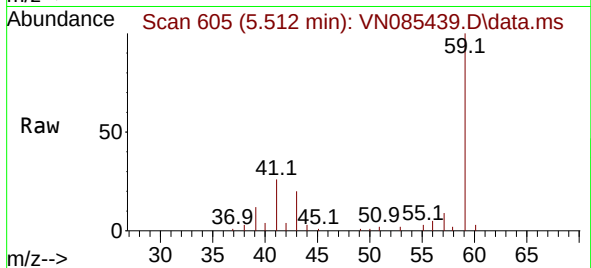




#11
Tert butyl alcohol
Concen: 251.894 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

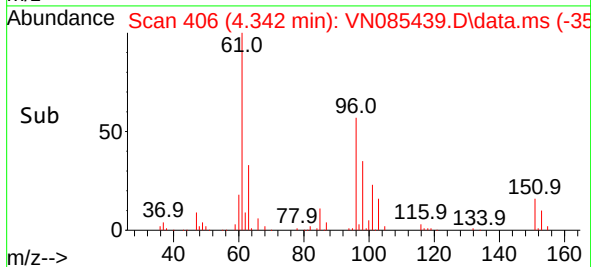
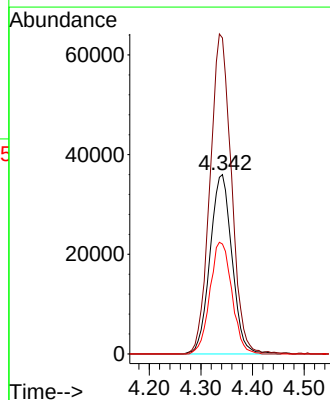
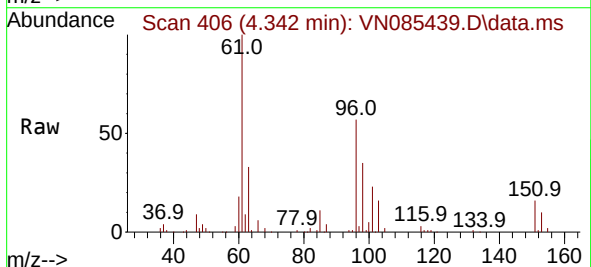
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VSTDICCC050

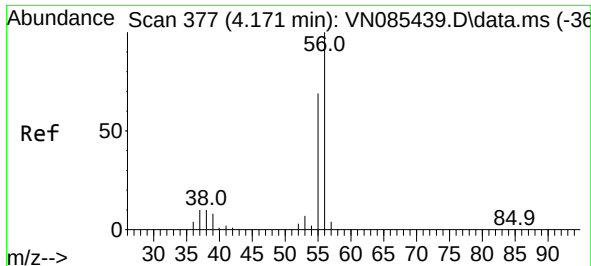
Tgt Ion: 59 Resp: 92841
Ion Ratio Lower Upper
59 100
57 10.8 8.6 13.0



#12
1,1-Dichloroethene
Concen: 49.647 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 96 Resp: 106247
Ion Ratio Lower Upper
96 100
61 176.2 141.0 211.4
98 61.3 49.0 73.6

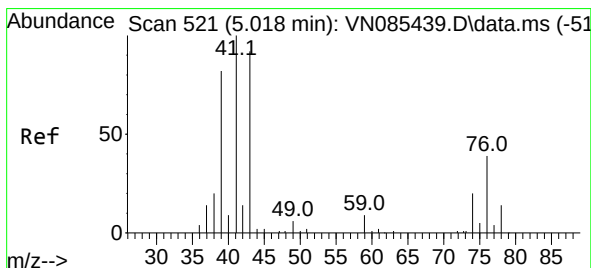
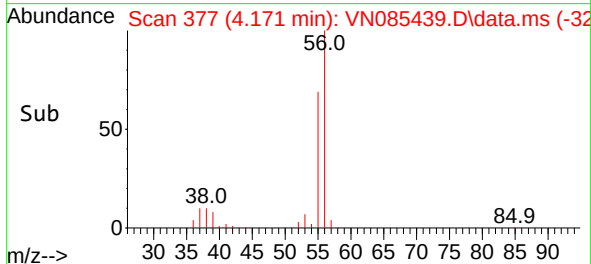
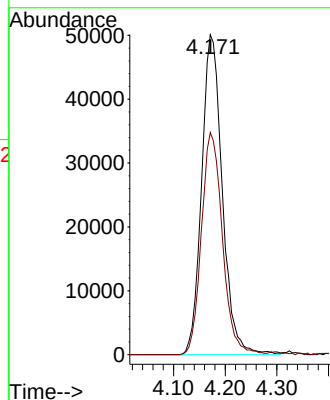
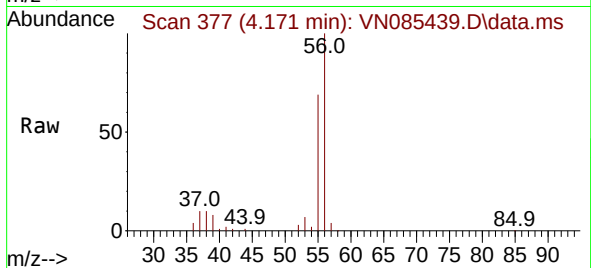




#13
Acrolein
Concen: 276.734 ug/l
RT: 4.171 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

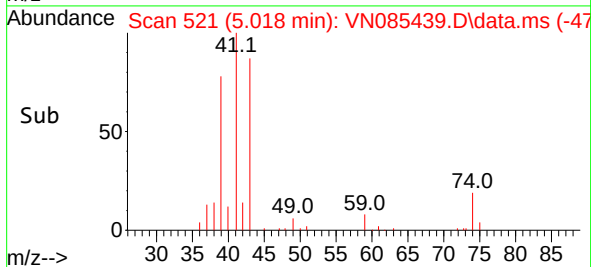
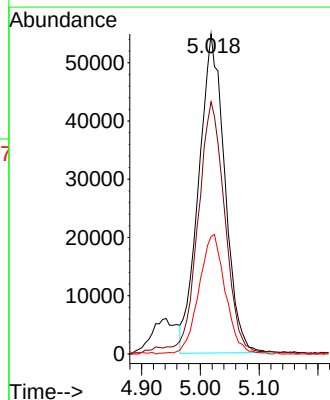
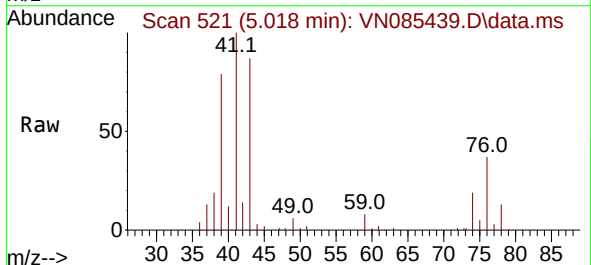
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

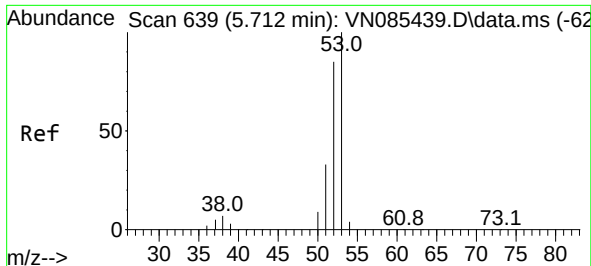
Tgt Ion: 56 Resp: 139234
Ion Ratio Lower Upper
56 100
55 70.4 56.3 84.5



#14
Allyl chloride
Concen: 48.567 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 168654
Ion Ratio Lower Upper
41 100
39 80.5 64.4 96.6
76 38.1 30.5 45.7

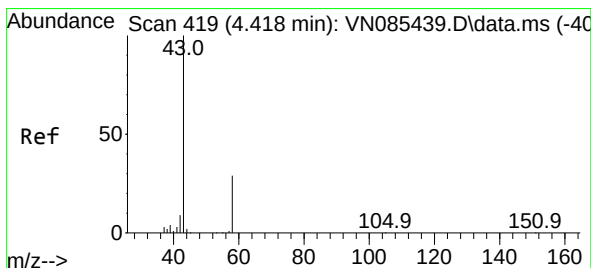
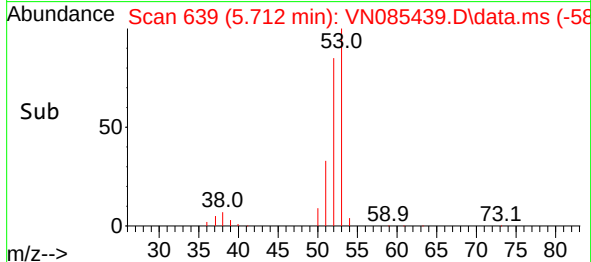
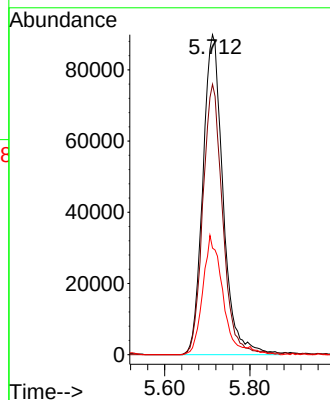
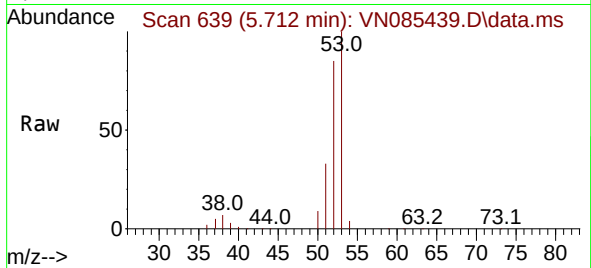




#15
Acrylonitrile
Concen: 253.507 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

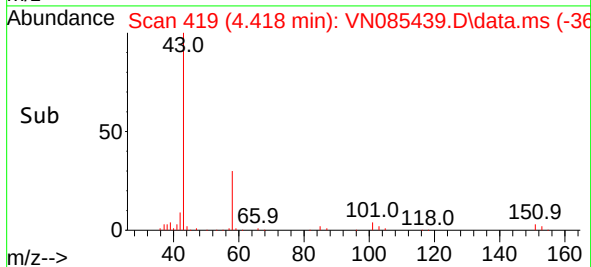
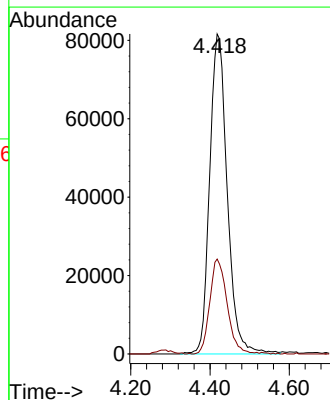
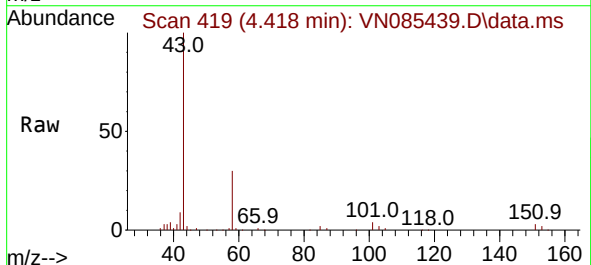
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

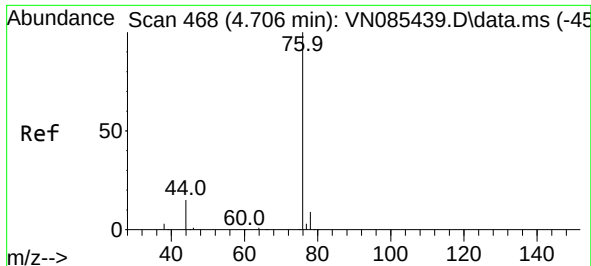
Tgt Ion: 53 Resp: 296781
Ion Ratio Lower Upper
53 100
52 81.9 65.5 98.3
51 37.3 29.8 44.8



#16
Acetone
Concen: 241.603 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 251271
Ion Ratio Lower Upper
43 100
58 29.7 23.8 35.6

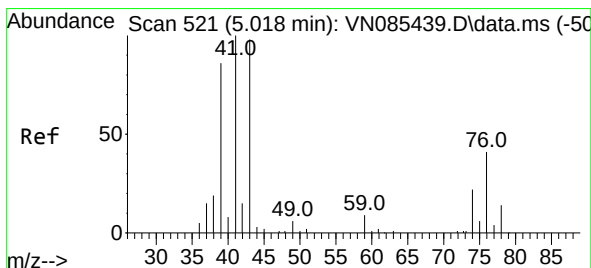
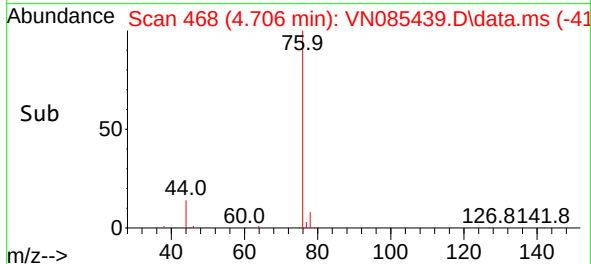
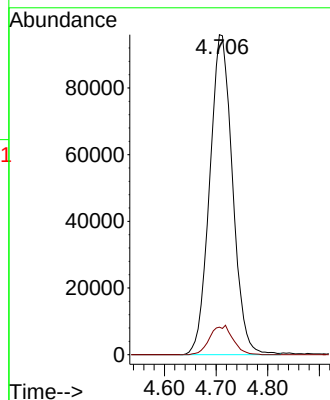
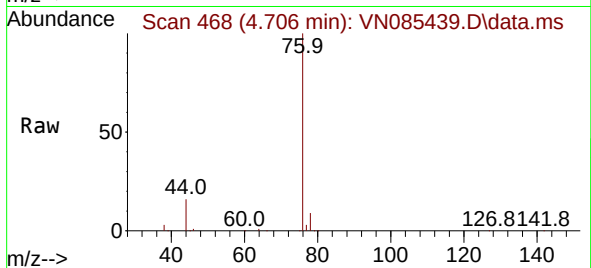




#17
Carbon Disulfide
Concen: 44.710 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

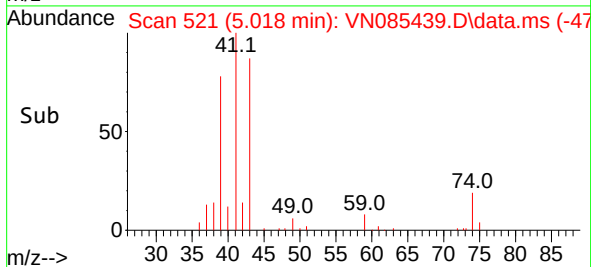
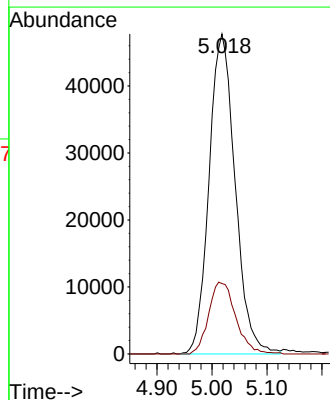
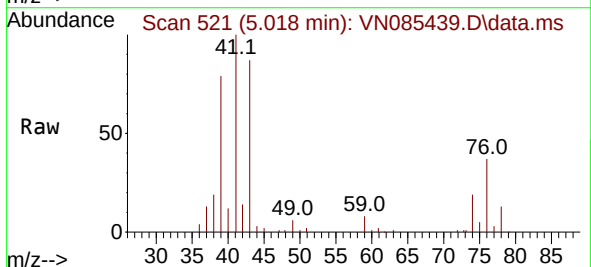
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

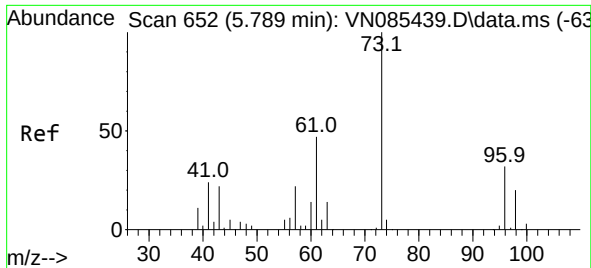
Tgt Ion: 76 Resp: 294604
Ion Ratio Lower Upper
76 100
78 8.6 6.9 10.3



#18
Methyl Acetate
Concen: 49.798 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 157485
Ion Ratio Lower Upper
43 100
74 23.3 18.6 28.0

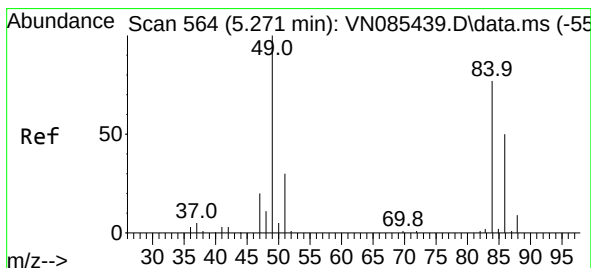
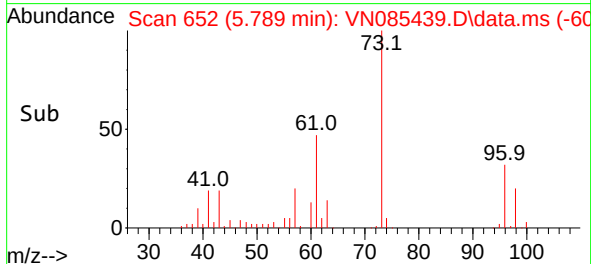
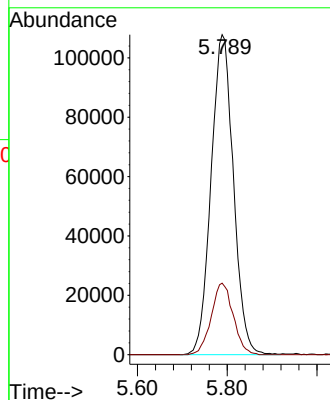
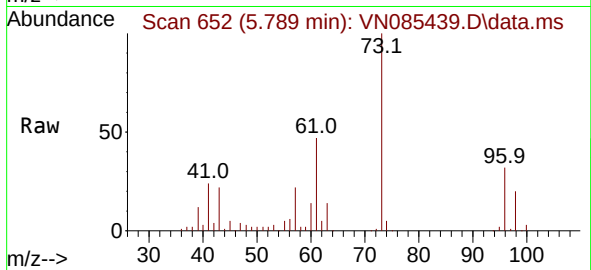




#19
Methyl tert-butyl Ether
Concen: 53.758 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

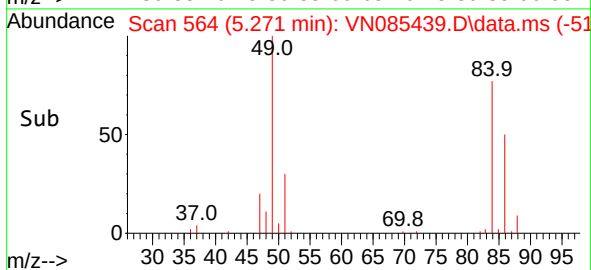
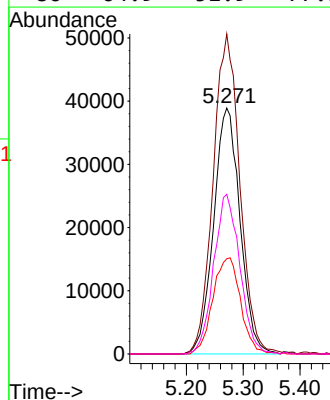
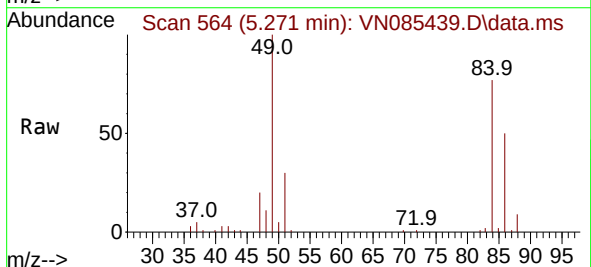
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

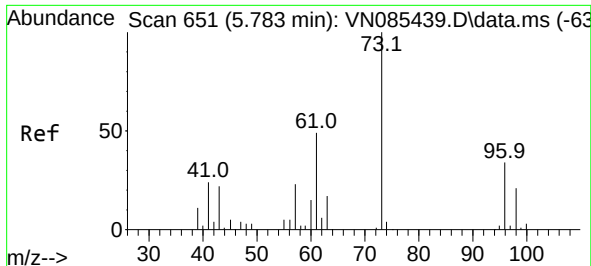
Tgt Ion: 73 Resp: 373561
Ion Ratio Lower Upper
73 100
57 22.3 17.8 26.8



#20
Methylene Chloride
Concen: 48.748 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 84 Resp: 125508
Ion Ratio Lower Upper
84 100
49 130.1 104.1 156.1
51 38.7 31.0 46.4
86 64.9 51.9 77.9

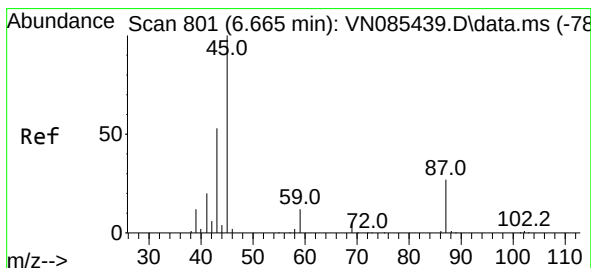
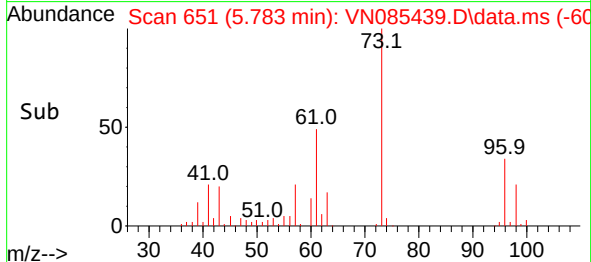
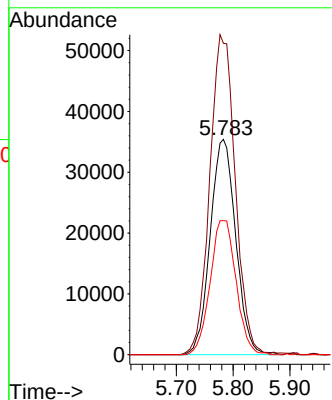
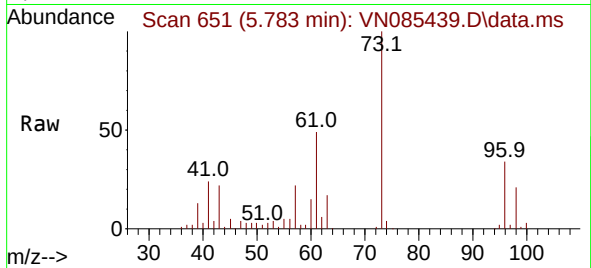




#21
trans-1,2-Dichloroethene
Concen: 48.395 ug/l
RT: 5.783 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

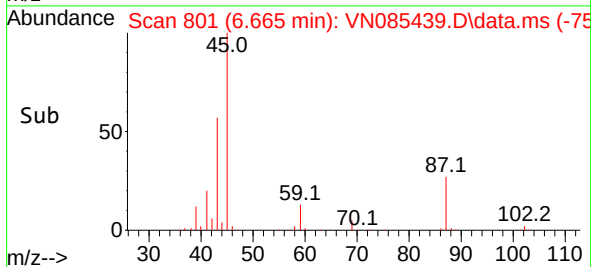
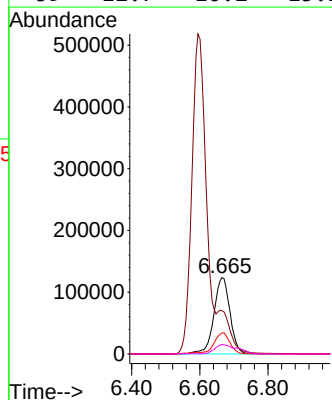
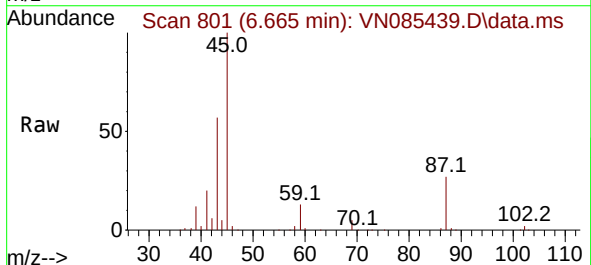
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

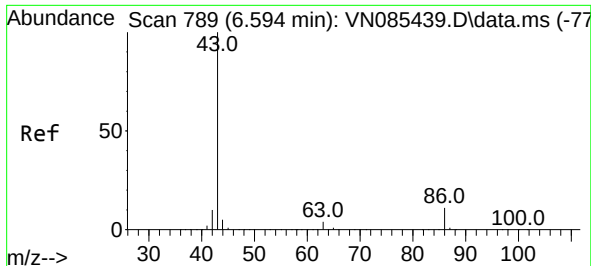
Tgt Ion: 96 Resp: 110684
Ion Ratio Lower Upper
96 100
61 144.6 115.7 173.5
98 62.3 49.8 74.8



#22
Diisopropyl ether
Concen: 52.707 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 45 Resp: 406253
Ion Ratio Lower Upper
45 100
43 56.3 45.0 67.6
87 27.3 21.8 32.8
59 12.7 10.2 15.2

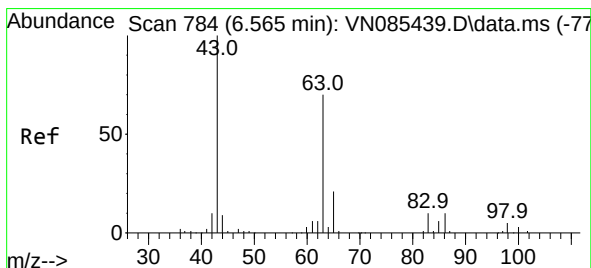
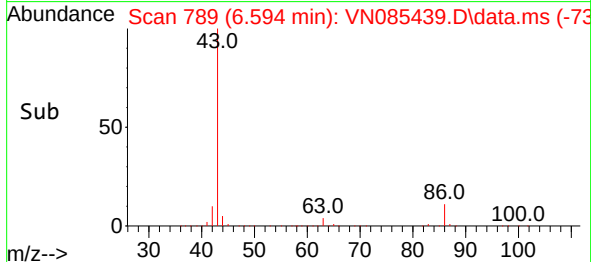
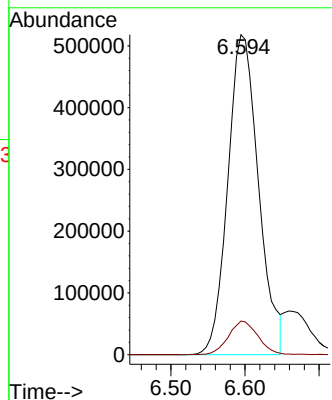
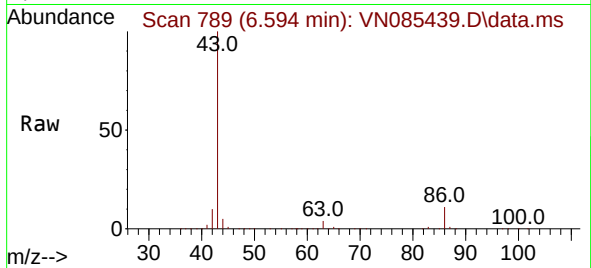




#23
 Vinyl Acetate
 Concen: 275.471 ug/l
 RT: 6.594 min Scan# 789
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

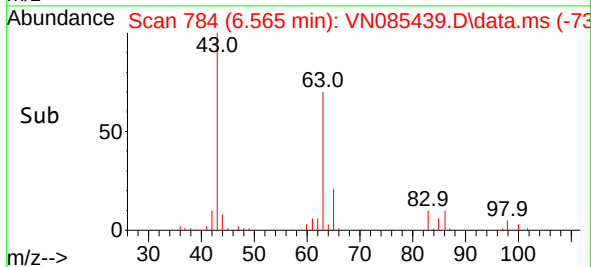
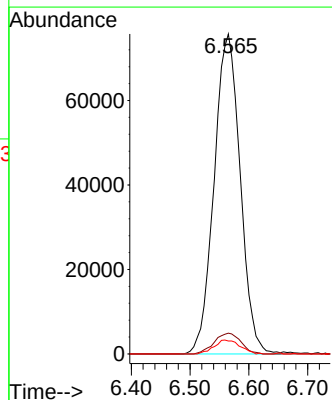
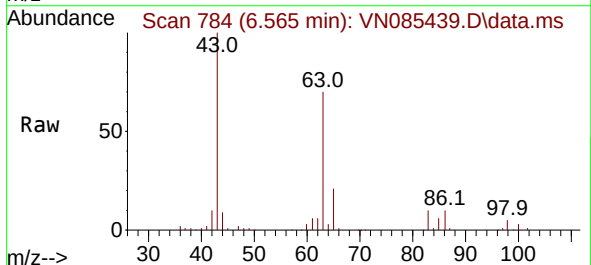
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

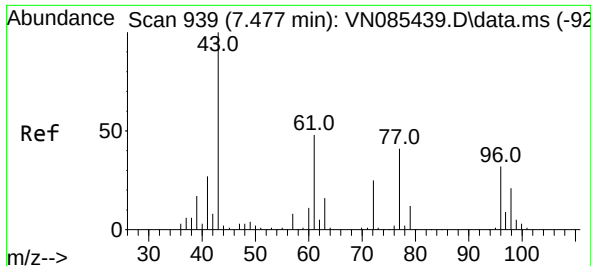
Tgt Ion: 43 Resp: 1491031
 Ion Ratio Lower Upper
 43 100
 86 10.5 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 49.648 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 233336
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.3 9.8
 100 4.0 2.0 6.0

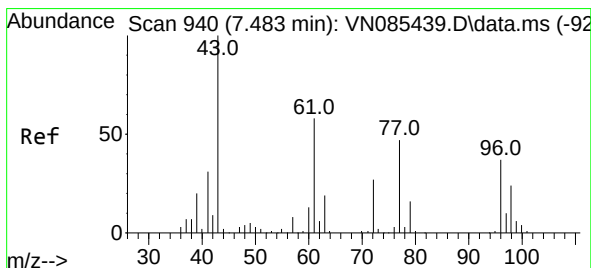
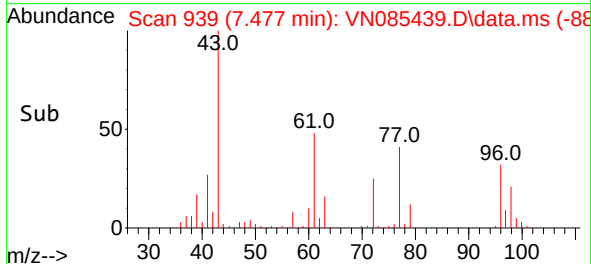
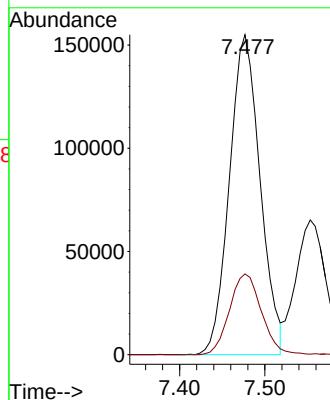
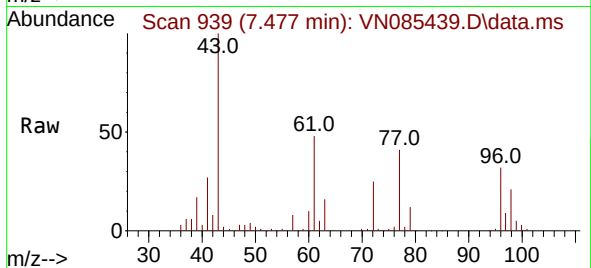




#25
2-Butanone
Concen: 253.815 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

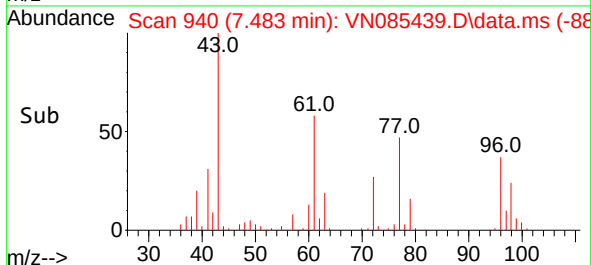
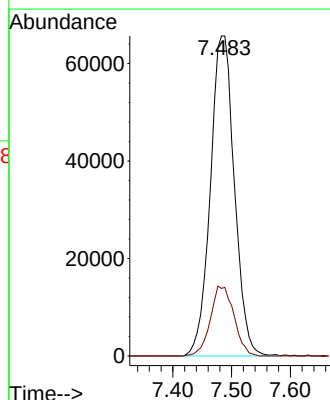
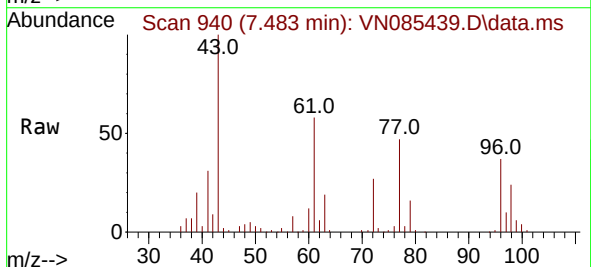
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

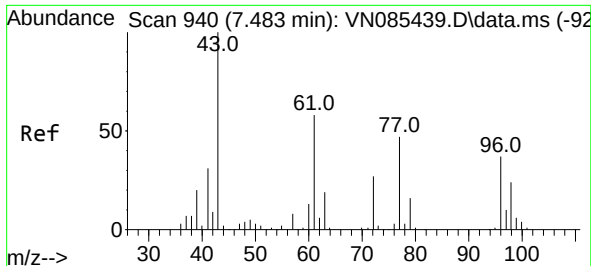
Tgt Ion: 43 Resp: 388457
Ion Ratio Lower Upper
43 100
72 25.3 20.2 30.4



#26
2,2-Dichloropropane
Concen: 49.106 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 77 Resp: 186591
Ion Ratio Lower Upper
77 100
97 21.4 10.7 32.1

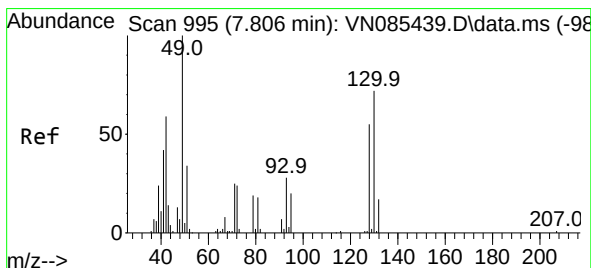
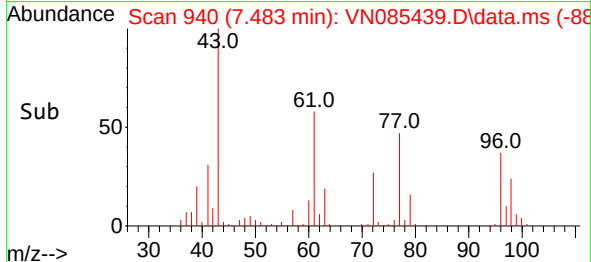
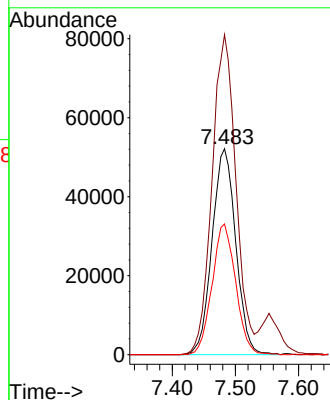
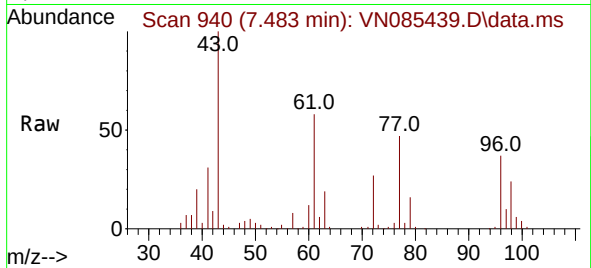




#27
 cis-1,2-Dichloroethene
 Concen: 50.571 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

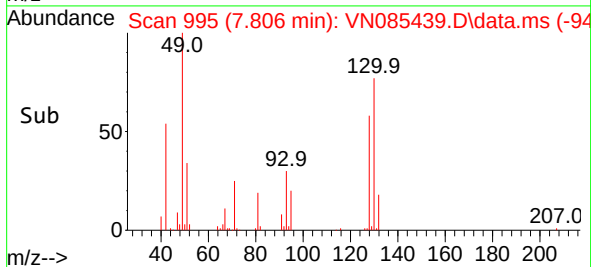
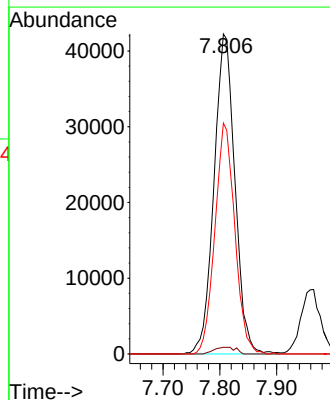
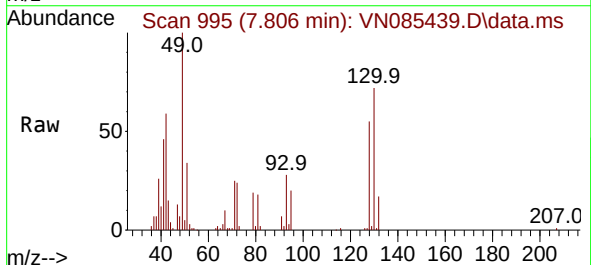
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

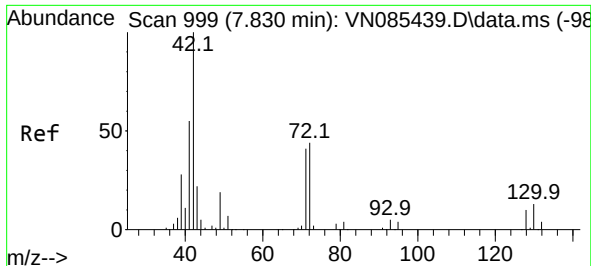
Tgt Ion: 96 Resp: 136229
 Ion Ratio Lower Upper
 96 100
 61 155.9 0.0 311.8
 98 63.0 0.0 126.0



#28
 Bromochloromethane
 Concen: 49.461 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Tgt Ion: 49 Resp: 108148
 Ion Ratio Lower Upper
 49 100
 129 2.2 0.0 4.4
 130 68.7 55.0 82.4





#29

Tetrahydrofuran

Concen: 267.624 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

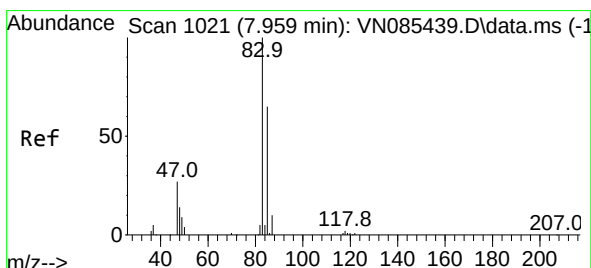
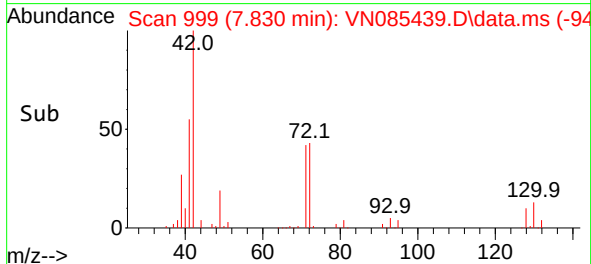
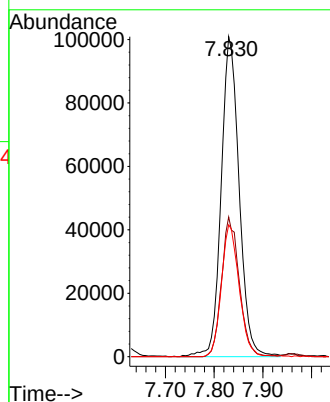
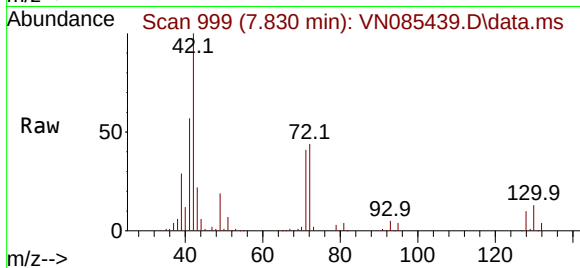
Tgt Ion: 42 Resp: 259683

Ion Ratio Lower Upper

42 100

72 42.7 34.2 51.2

71 40.6 32.5 48.7



#30

Chloroform

Concen: 48.229 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085439.D

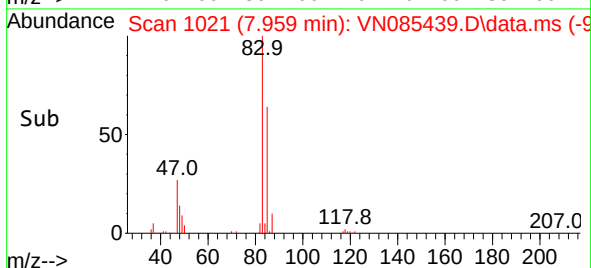
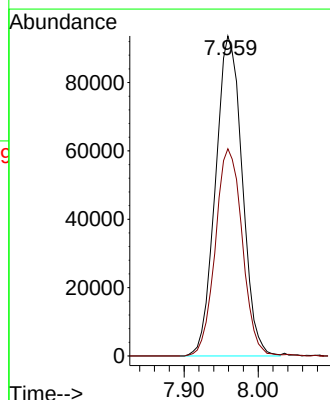
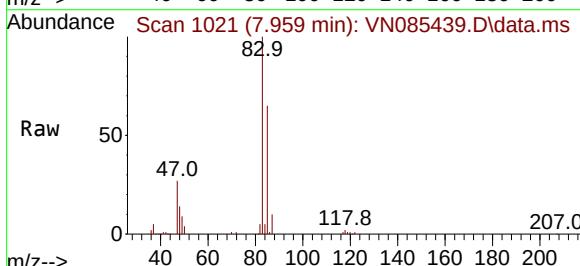
Acq: 14 Jan 2025 15:19

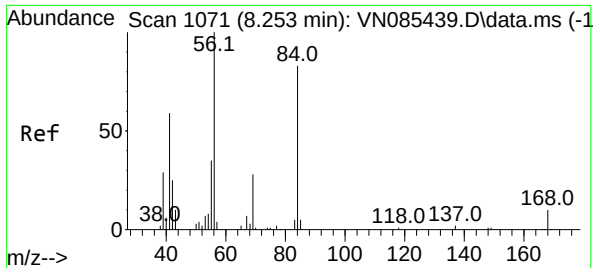
Tgt Ion: 83 Resp: 234271

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6

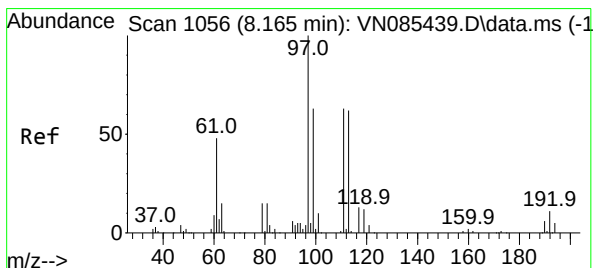
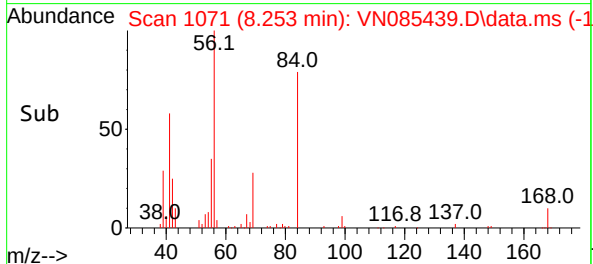
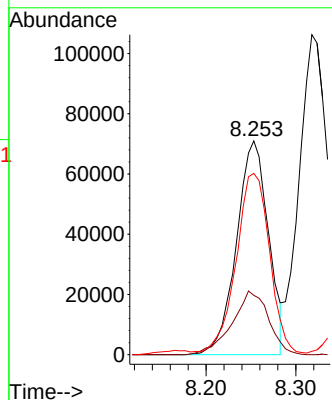
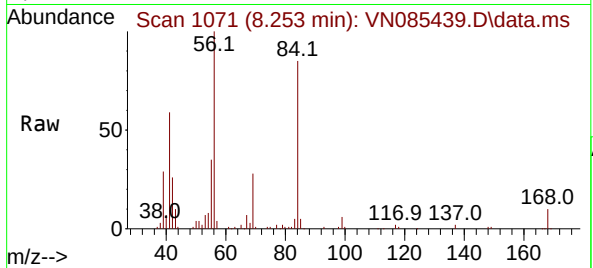




#31
Cyclohexane
Concen: 42.984 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

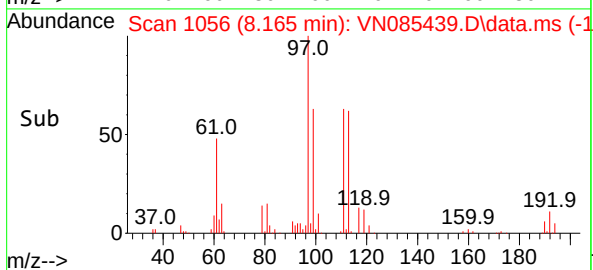
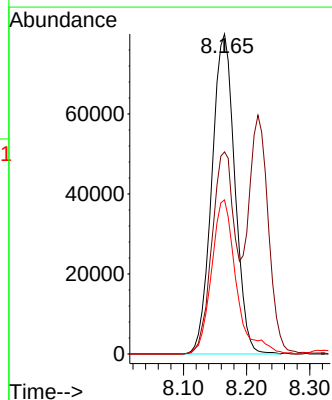
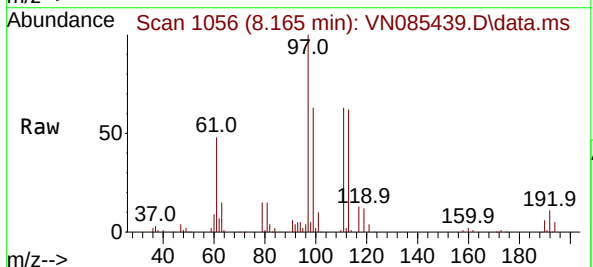
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

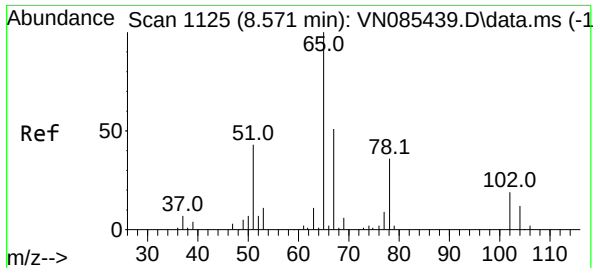
Tgt Ion: 56 Resp: 175588
Ion Ratio Lower Upper
56 100
69 27.8 22.2 33.4
84 83.0 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 47.547 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 97 Resp: 202590
Ion Ratio Lower Upper
97 100
99 62.2 49.8 74.6
61 51.8 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 51.500 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

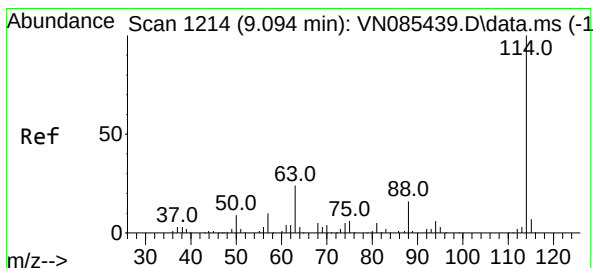
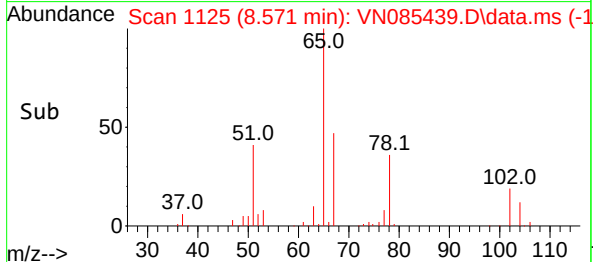
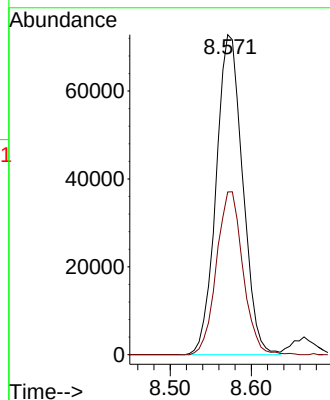
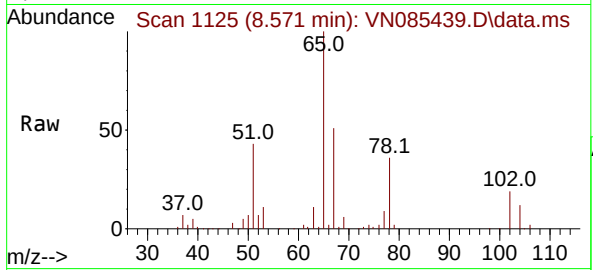
VSTDICCC050

Tgt Ion: 65 Resp: 165768

Ion Ratio Lower Upper

65 100

67 50.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

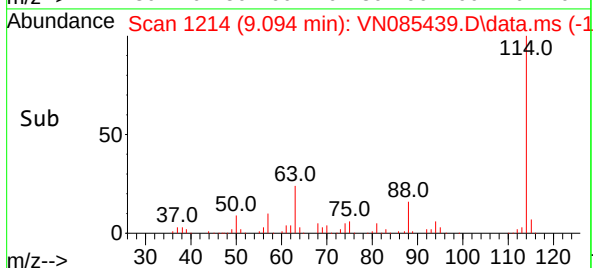
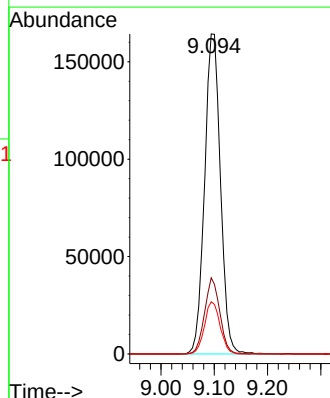
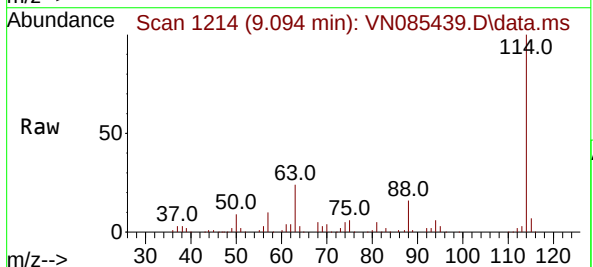
Tgt Ion: 114 Resp: 339872

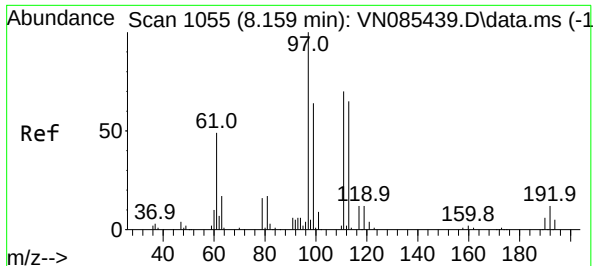
Ion Ratio Lower Upper

114 100

63 23.8 0.0 47.6

88 16.3 0.0 32.6

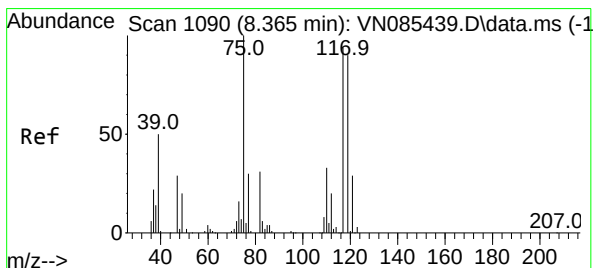
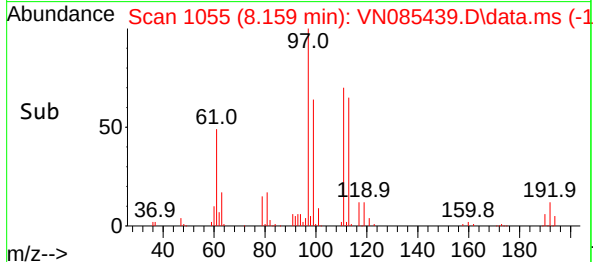
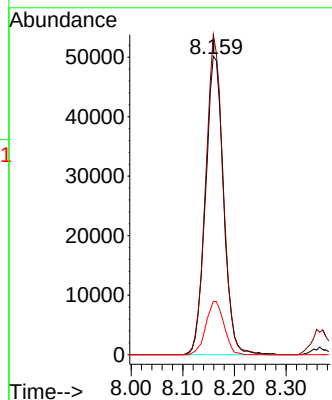
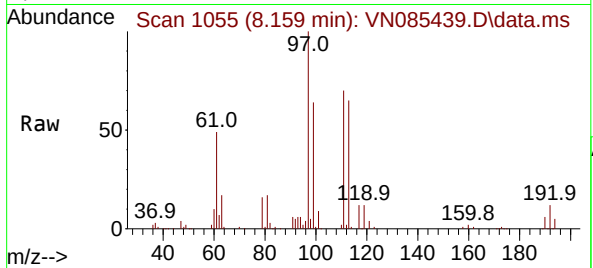




#35
Dibromofluoromethane
Concen: 51.552 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

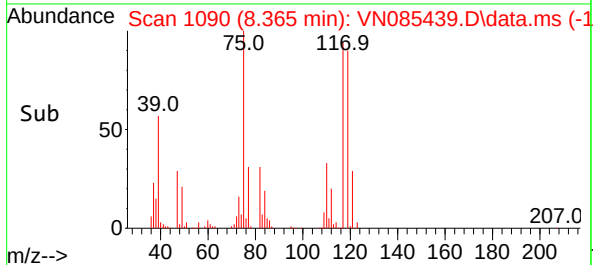
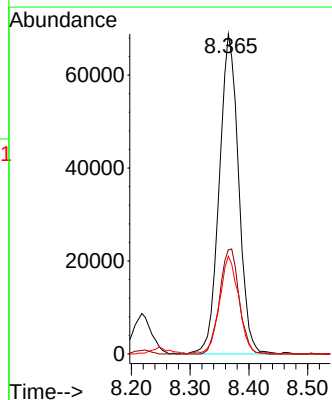
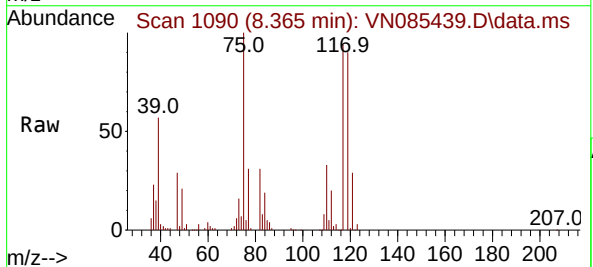
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

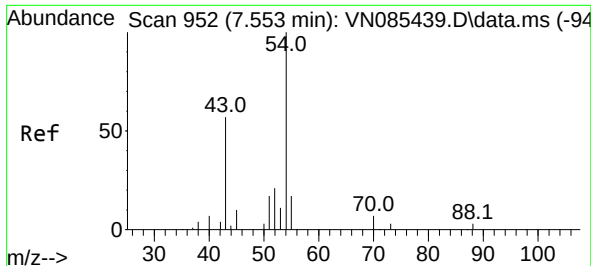
Tgt Ion:113 Resp: 121554
Ion Ratio Lower Upper
113 100
111 103.4 82.7 124.1
192 17.9 14.3 21.5



#36
1,1-Dichloropropene
Concen: 47.453 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 157031
Ion Ratio Lower Upper
75 100
110 33.0 16.5 49.5
77 30.5 24.4 36.6





#37

Ethyl Acetate

Concen: 49.658 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

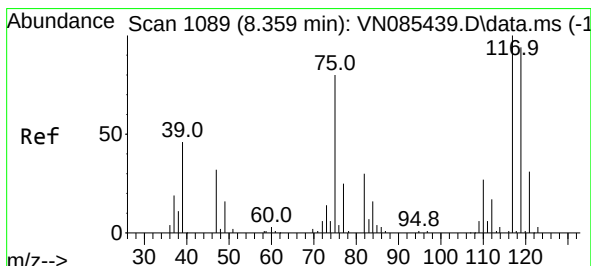
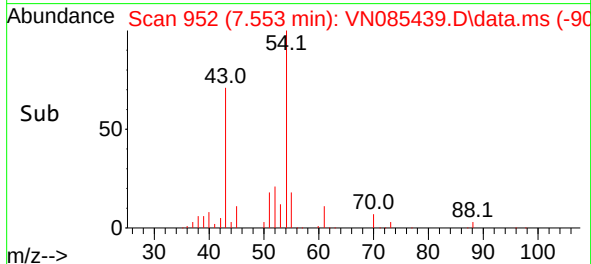
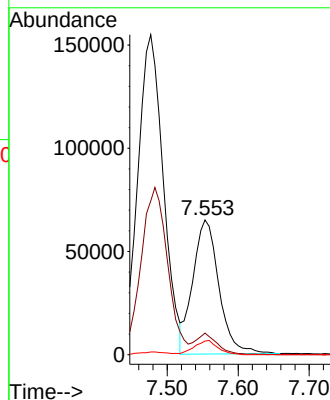
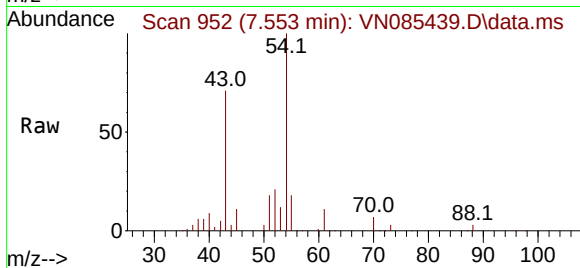
Tgt Ion: 43 Resp: 165866

Ion Ratio Lower Upper

43 100

61 13.6 10.9 16.3

70 9.4 7.5 11.3



#38

Carbon Tetrachloride

Concen: 47.564 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

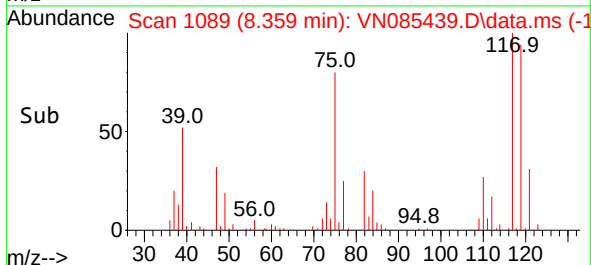
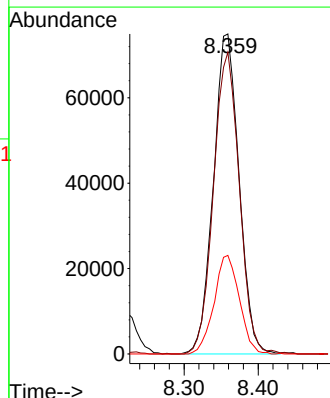
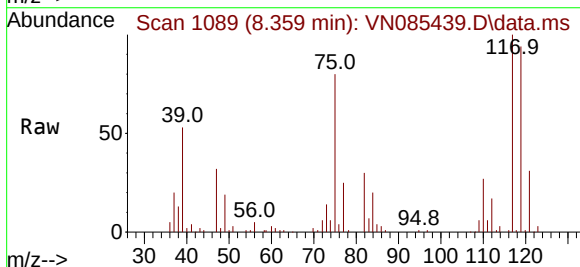
Tgt Ion: 117 Resp: 180199

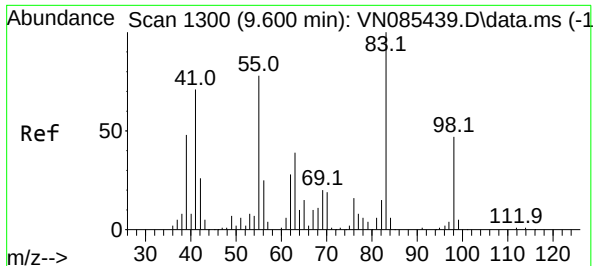
Ion Ratio Lower Upper

117 100

119 94.3 75.4 113.2

121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 50.562 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

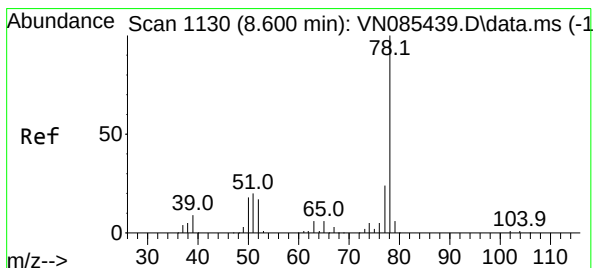
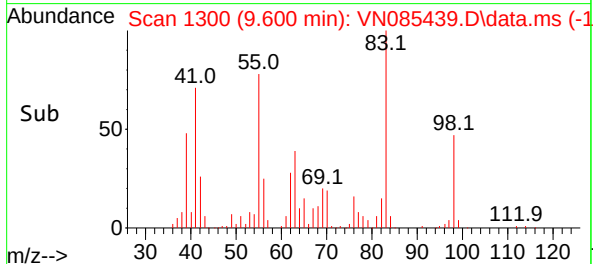
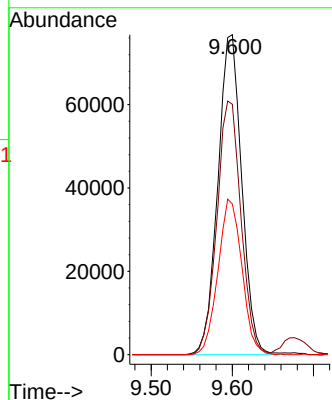
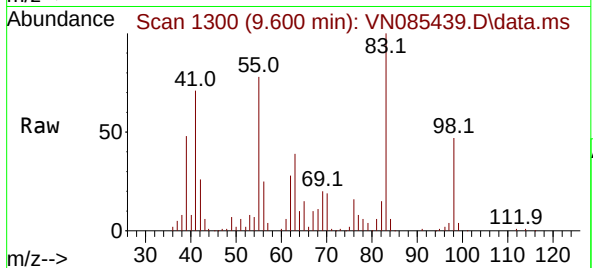
Tgt Ion: 83 Resp: 157234

Ion Ratio Lower Upper

83 100

55 78.3 62.6 94.0

98 47.1 37.7 56.5



#40

Benzene

Concen: 49.542 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085439.D

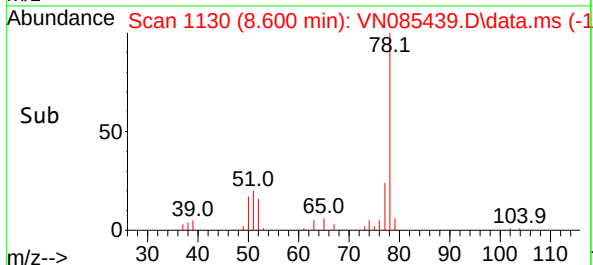
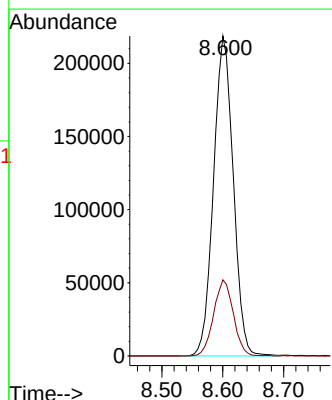
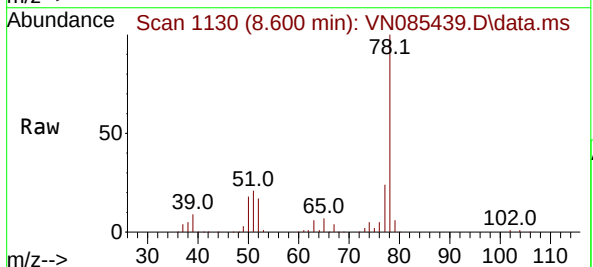
Acq: 14 Jan 2025 15:19

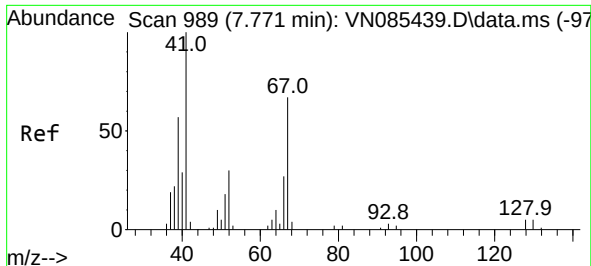
Tgt Ion: 78 Resp: 492606

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6

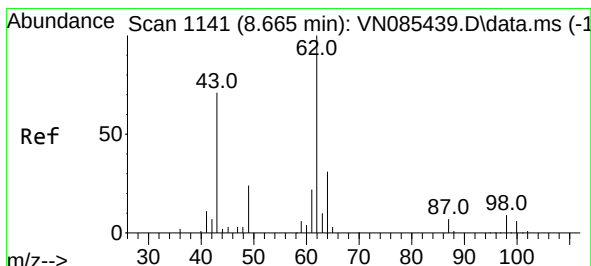
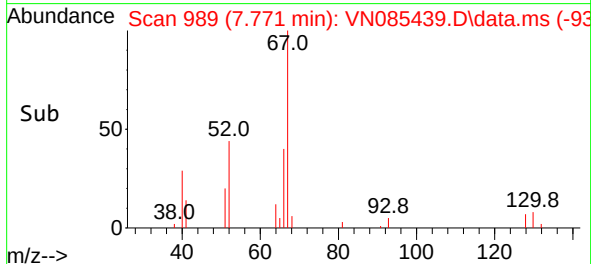
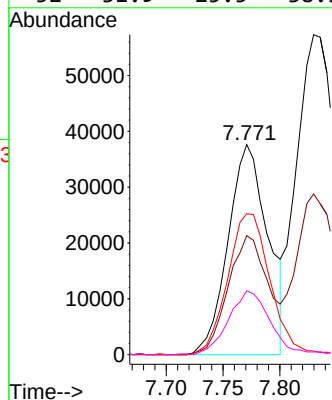
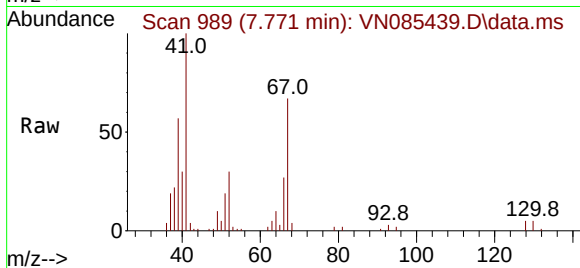




#41
Methacrylonitrile
Concen: 52.775 ug/l
RT: 7.771 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

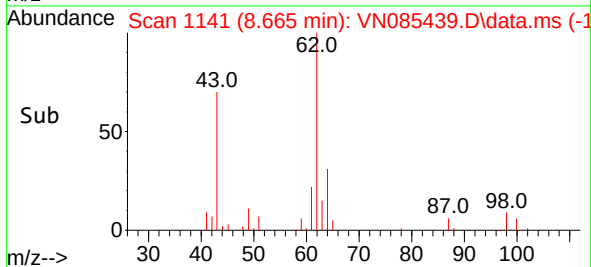
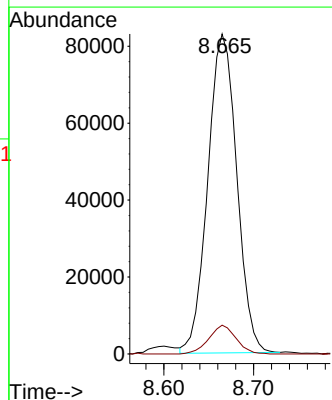
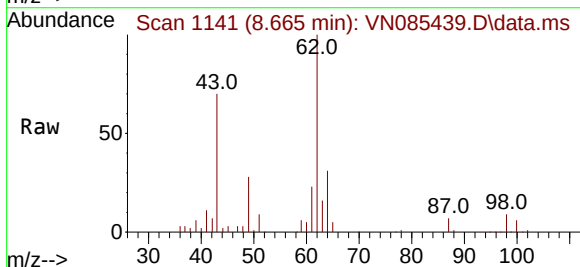
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

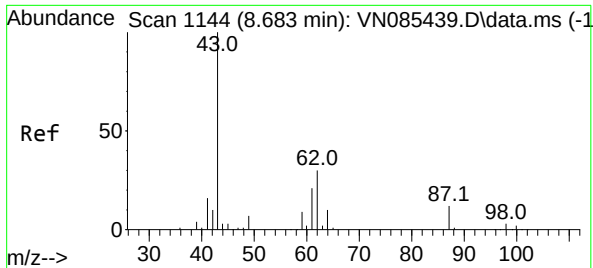
Tgt Ion:	41	Resp:	91711
Ion	Ratio	Lower	Upper
41	100		
39	57.5	46.0	69.0
67	71.8	57.4	86.2
52	31.9	25.5	38.3



#42
1,2-Dichloroethane
Concen: 49.685 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:	62	Resp:	186065
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0

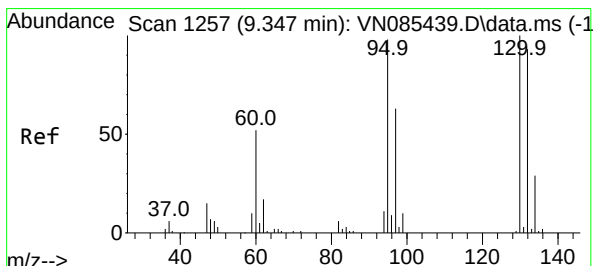
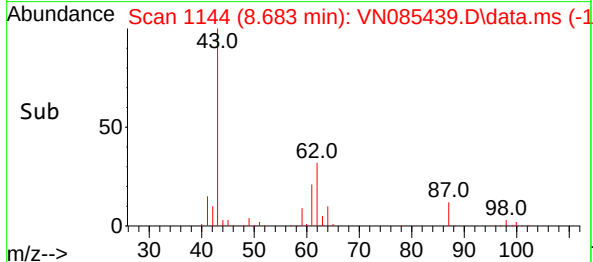
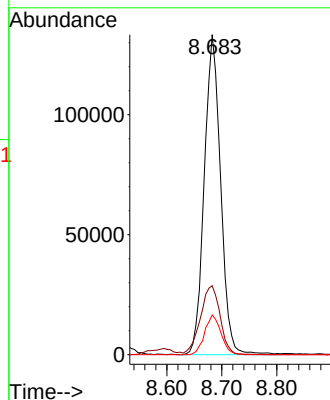
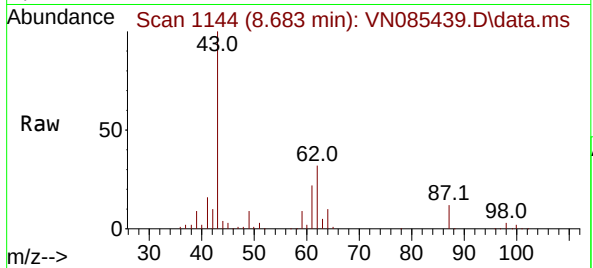




#43
Isopropyl Acetate
Concen: 51.611 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

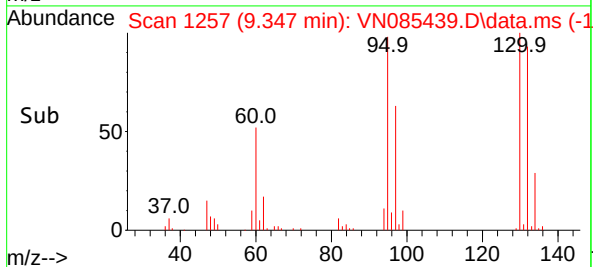
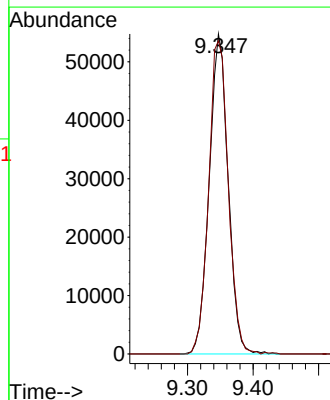
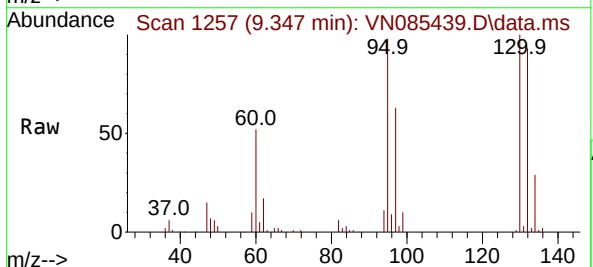
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

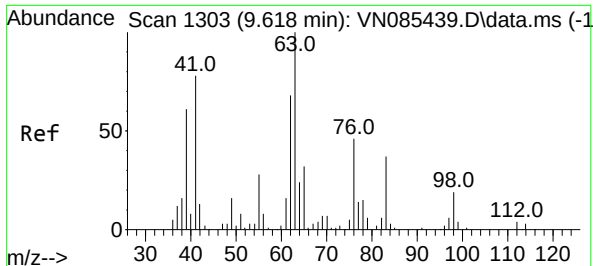
Tgt Ion: 43 Resp: 276228
Ion Ratio Lower Upper
43 100
61 25.9 20.7 31.1
87 12.3 9.8 14.8



#44
Trichloroethene
Concen: 47.506 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 130 Resp: 109953
Ion Ratio Lower Upper
130 100
95 97.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 49.644 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

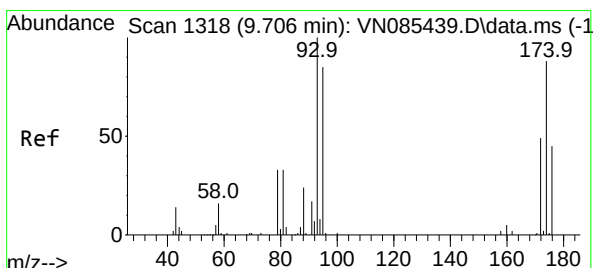
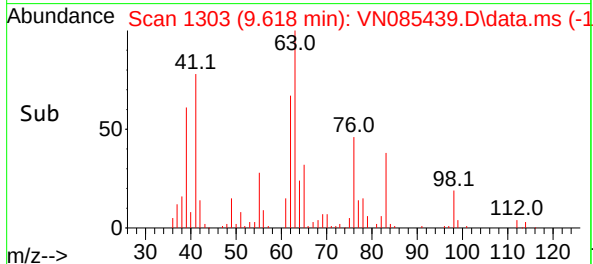
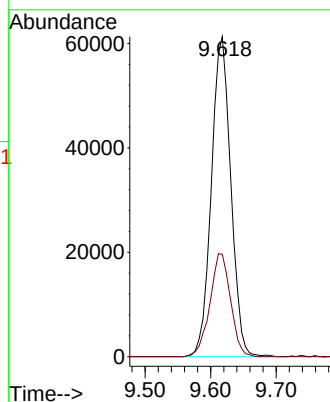
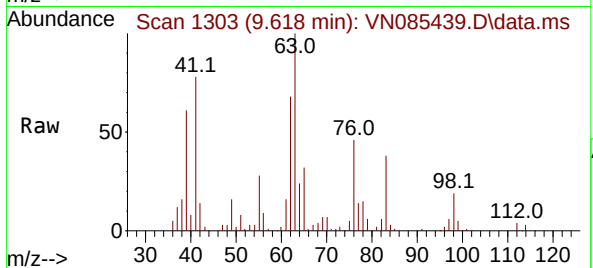
VSTDICCC050

Tgt Ion: 63 Resp: 126084

Ion Ratio Lower Upper

63 100

65 32.0 25.6 38.4



#46

Dibromomethane

Concen: 49.476 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

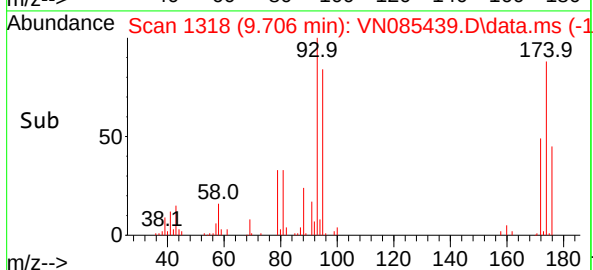
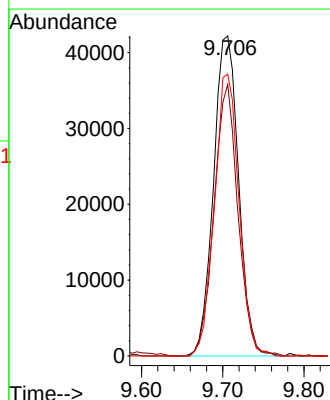
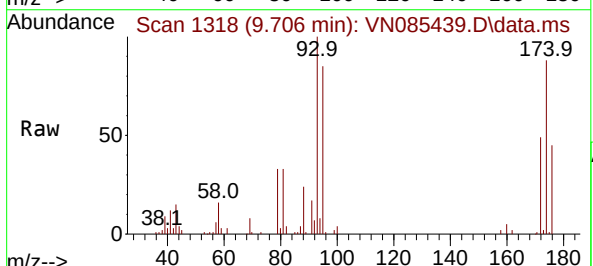
Tgt Ion: 93 Resp: 90670

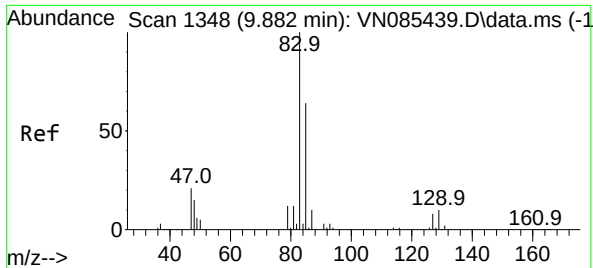
Ion Ratio Lower Upper

93 100

95 80.9 64.7 97.1

174 86.2 69.0 103.4

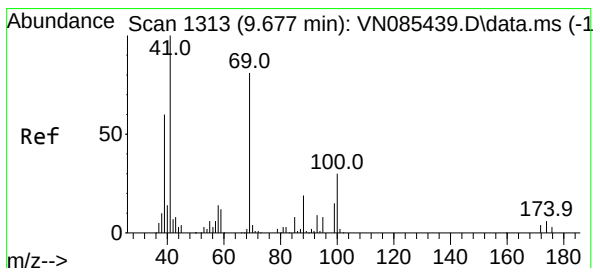
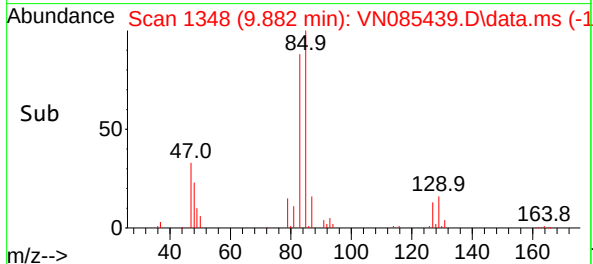
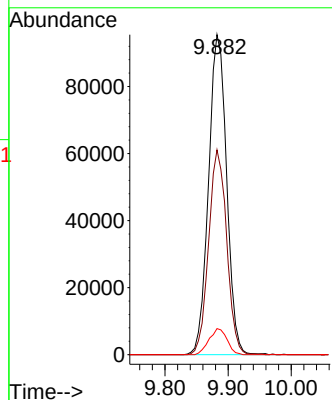
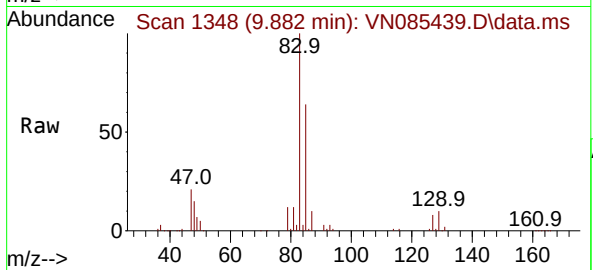




#47
Bromodichloromethane
Concen: 50.867 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

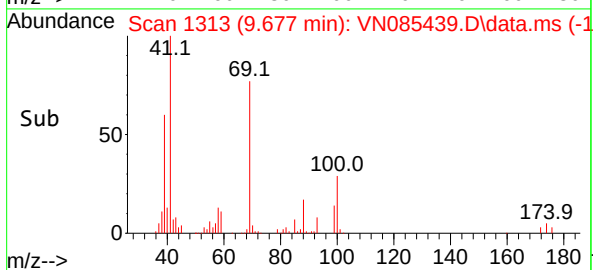
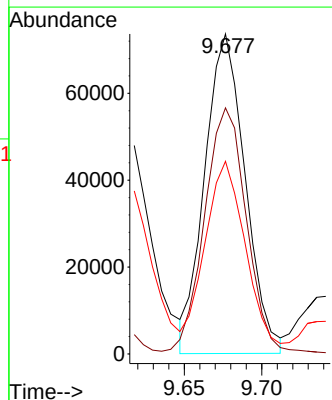
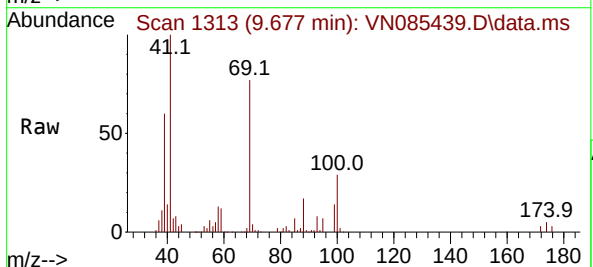
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

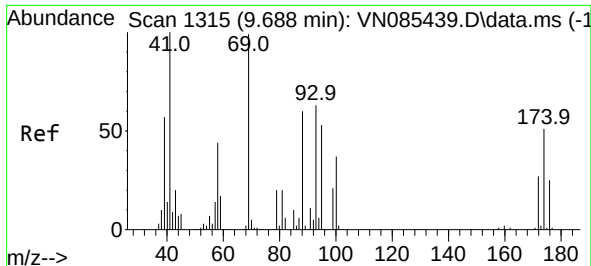
Tgt Ion: 83 Resp: 189915
Ion Ratio Lower Upper
83 100
85 64.0 51.2 76.8
127 8.1 6.5 9.7



#48
Methyl methacrylate
Concen: 55.385 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 41 Resp: 133399
Ion Ratio Lower Upper
41 100
69 80.9 64.7 97.1
39 61.3 49.0 73.6





#49

1,4-Dioxane

Concen: 1061.334 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

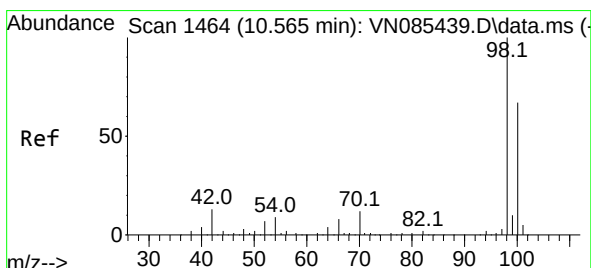
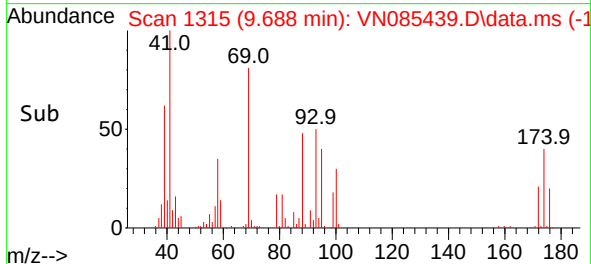
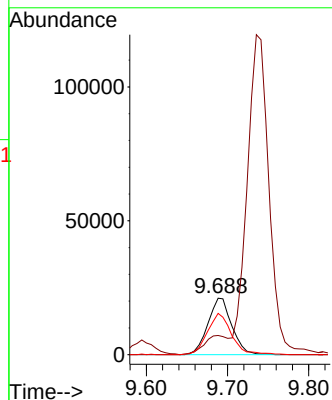
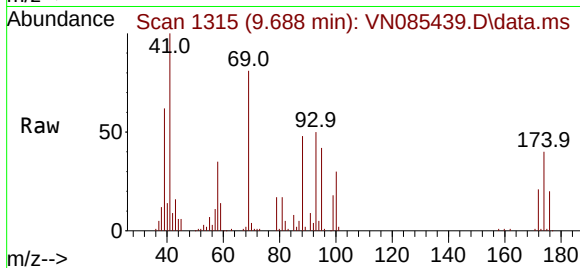
Tgt Ion: 88 Resp: 43048

Ion Ratio Lower Upper

88 100

43 33.2 26.6 39.8

58 74.4 59.5 89.3



#50

Toluene-d8

Concen: 51.411 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085439.D

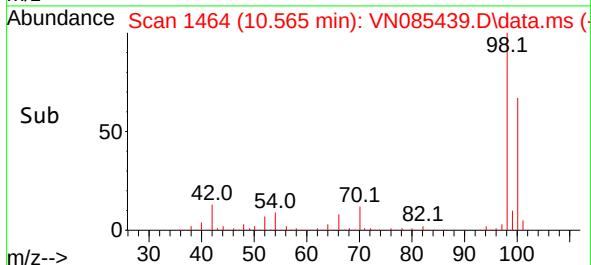
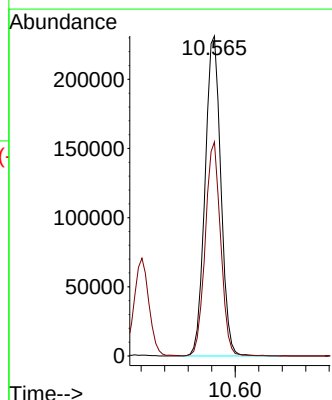
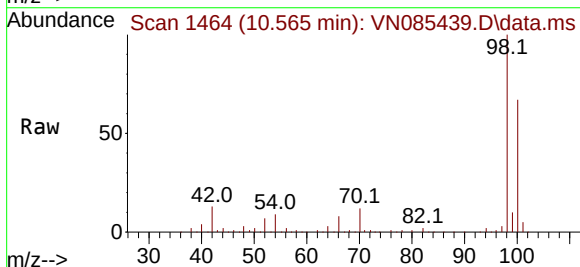
Acq: 14 Jan 2025 15:19

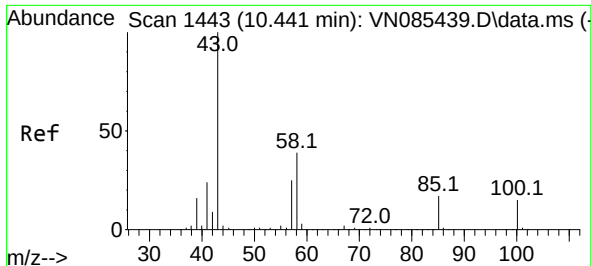
Tgt Ion: 98 Resp: 430698

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.4

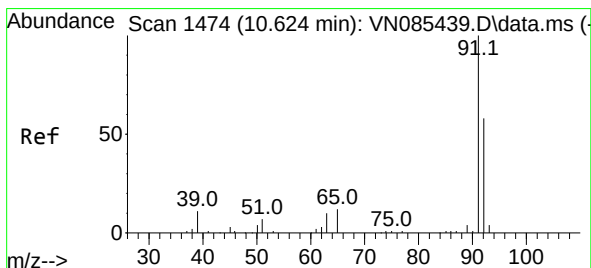
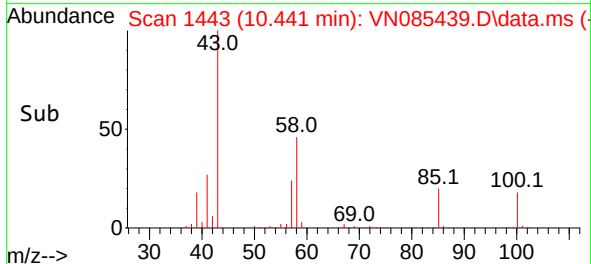
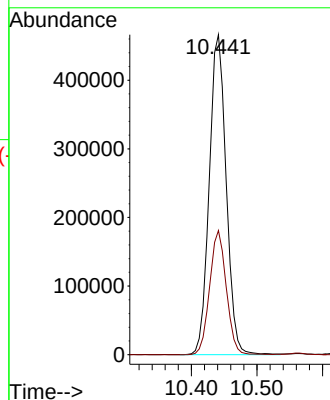
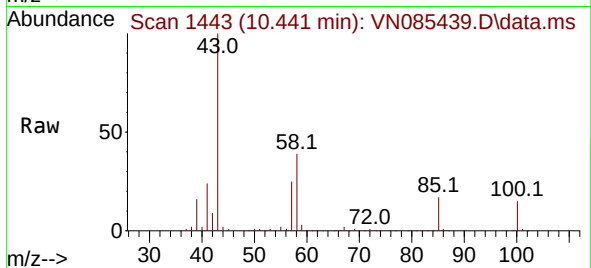




#51
4-Methyl-2-Pentanone
Concen: 269.403 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

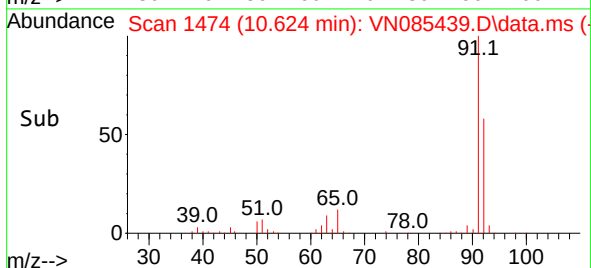
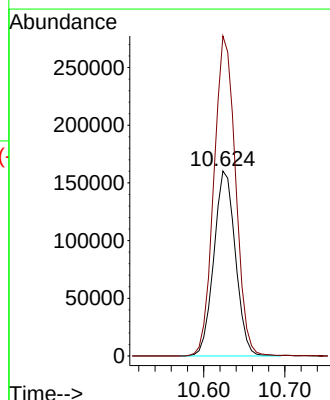
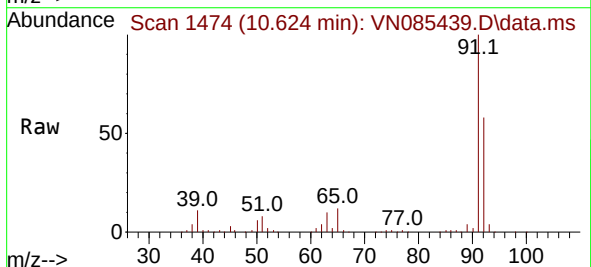
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

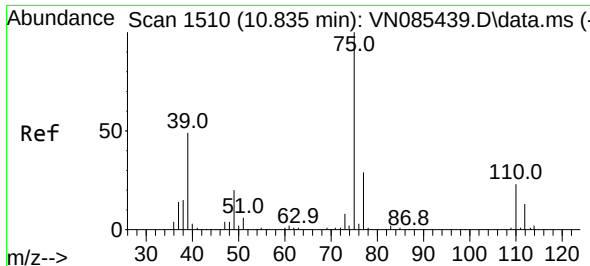
Tgt Ion: 43 Resp: 836707
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7



#52
Toluene
Concen: 51.341 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 92 Resp: 295792
Ion Ratio Lower Upper
92 100
91 174.0 139.2 208.8

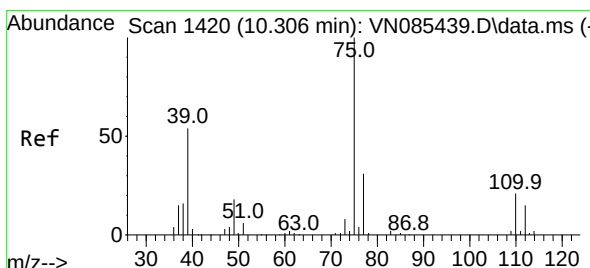
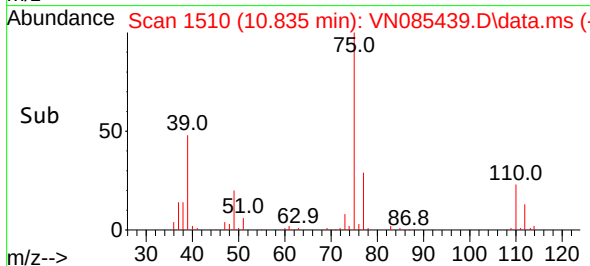
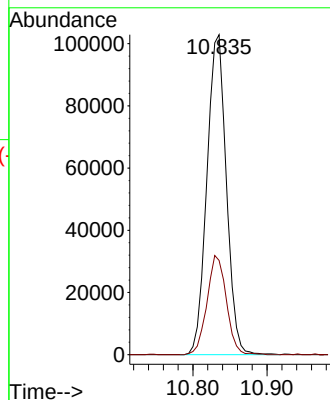
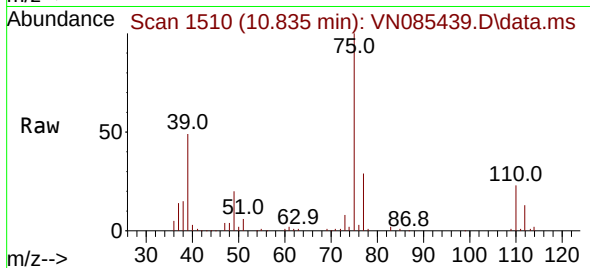




#53
 t-1,3-Dichloropropene
 Concen: 53.125 ug/l
 RT: 10.835 min Scan# 1510
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

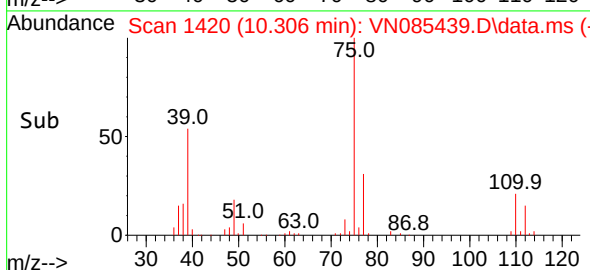
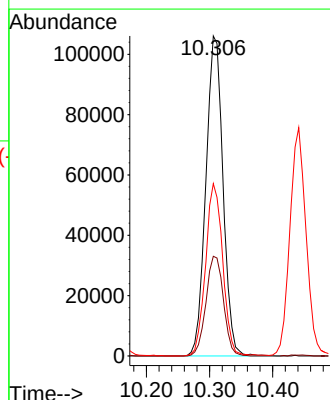
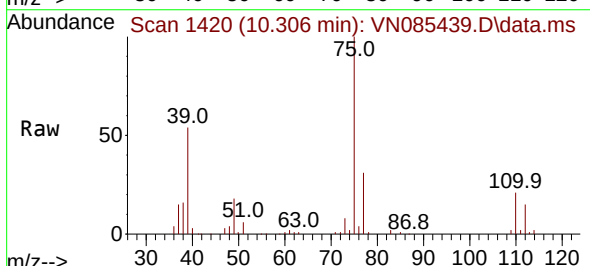
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

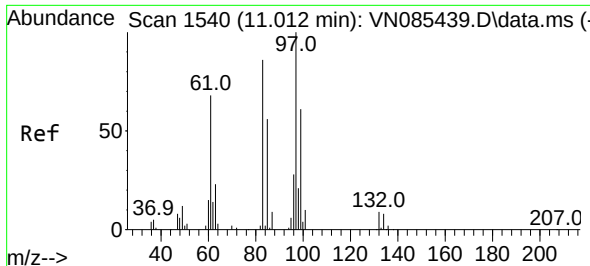
Tgt Ion: 75 Resp: 187439
 Ion Ratio Lower Upper
 75 100
 77 29.4 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 53.006 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 199771
 Ion Ratio Lower Upper
 75 100
 77 31.2 25.0 37.4
 39 53.9 43.1 64.7

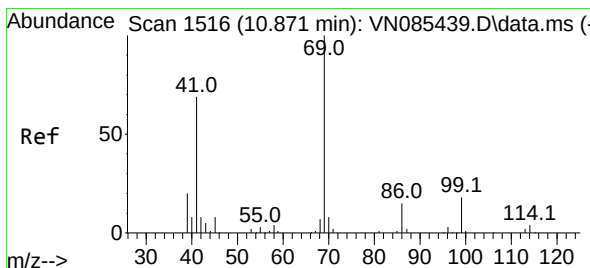
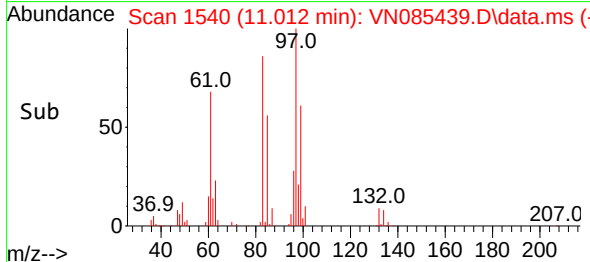
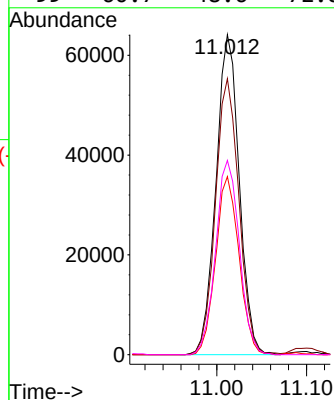
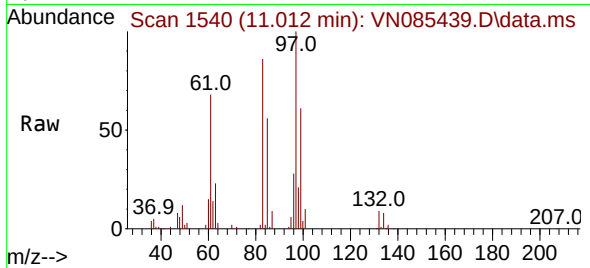




#55
1,1,2-Trichloroethane
Concen: 50.641 ug/l
RT: 11.012 min Scan# 115462
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

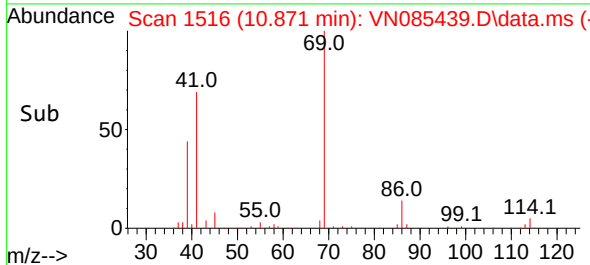
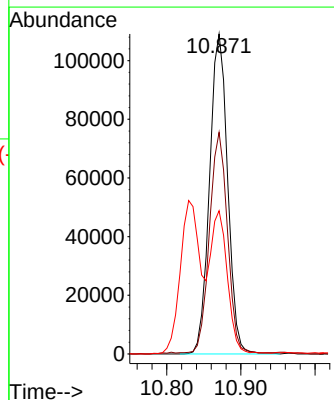
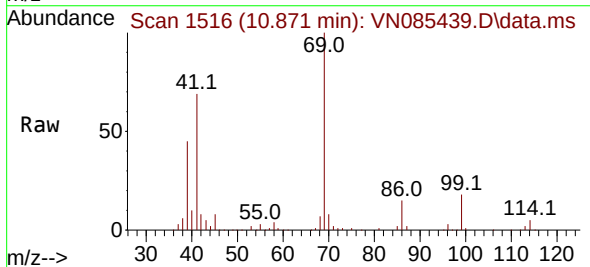
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

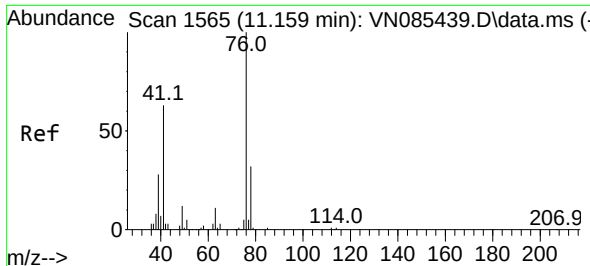
Tgt Ion:	97	Resp:	115462
Ion	Ratio	Lower	Upper
97	100		
83	86.3	69.0	103.6
85	55.7	44.6	66.8
99	60.7	48.6	72.8



#56
Ethyl methacrylate
Concen: 48.182 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:	69	Resp:	184775
Ion	Ratio	Lower	Upper
69	100		
41	68.3	54.6	82.0
39	40.5	32.4	48.6

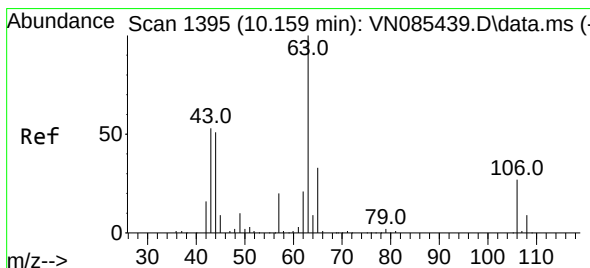
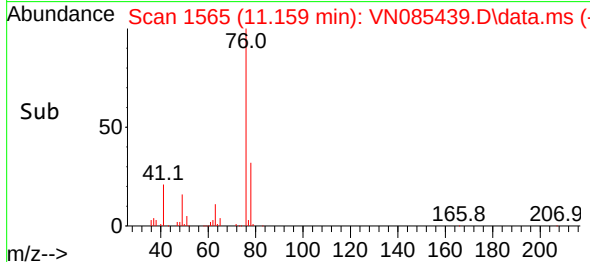
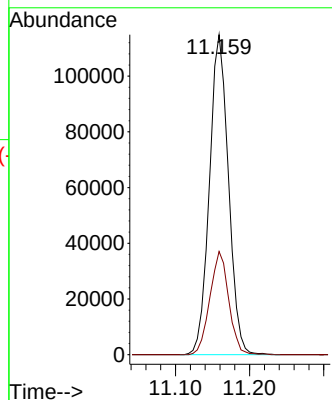
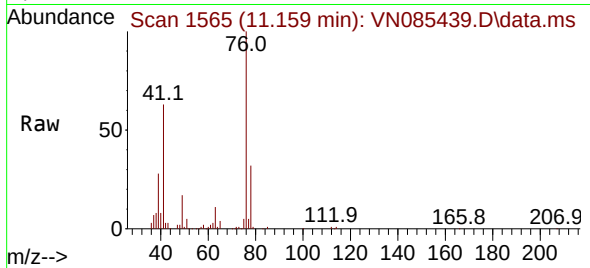




#57
1,3-Dichloropropane
Concen: 51.606 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

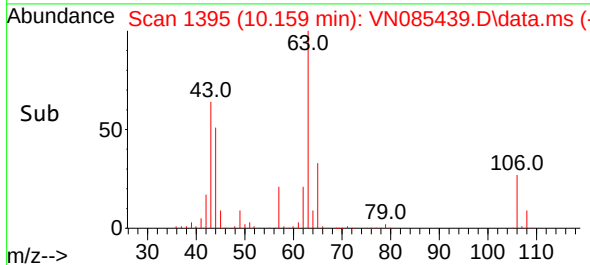
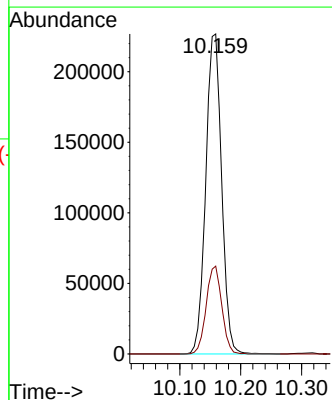
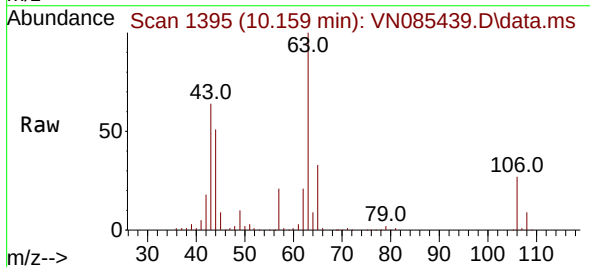
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

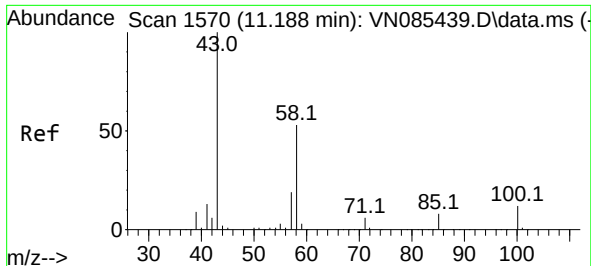
Tgt Ion: 76 Resp: 204590
Ion Ratio Lower Upper
76 100
78 32.0 25.6 38.4



#58
2-Chloroethyl Vinyl ether
Concen: 283.088 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 63 Resp: 409594
Ion Ratio Lower Upper
63 100
106 27.0 21.6 32.4

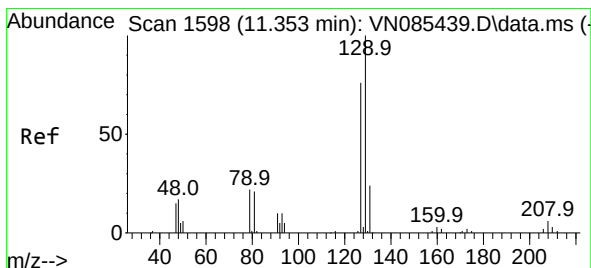
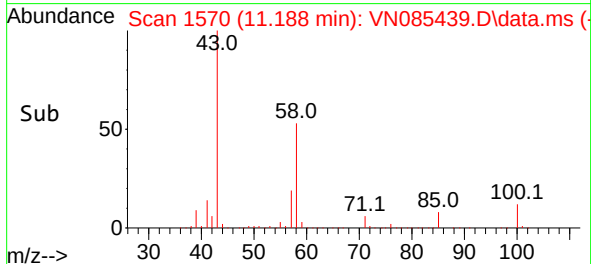
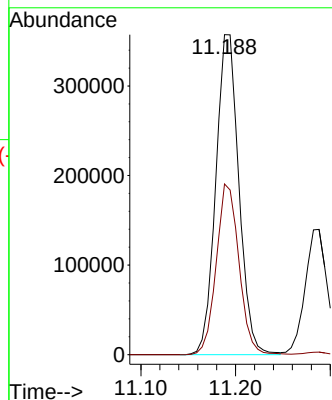
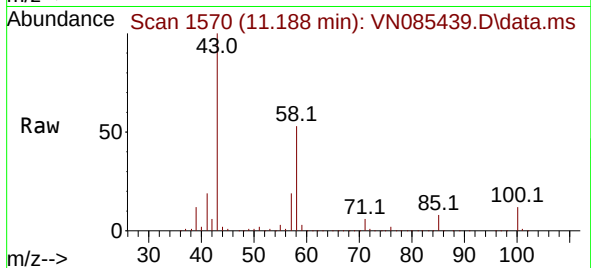




#59
2-Hexanone
Concen: 277.643 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

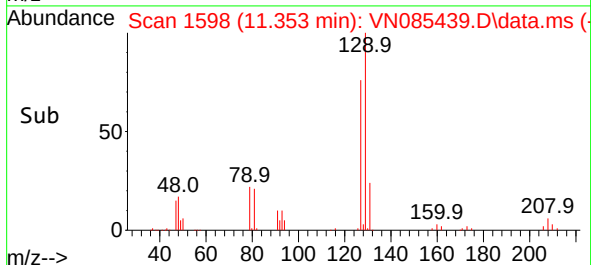
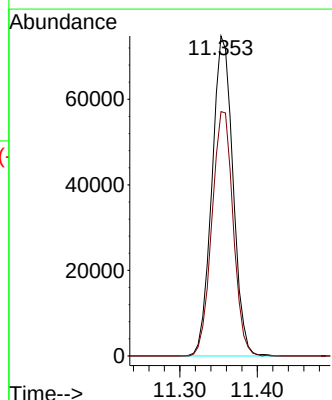
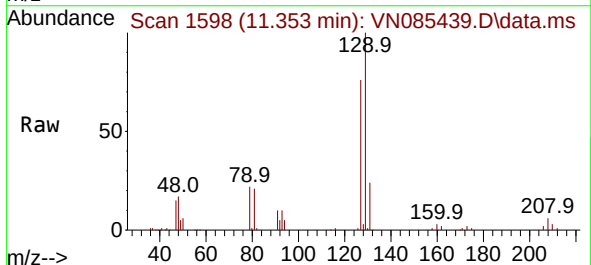
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

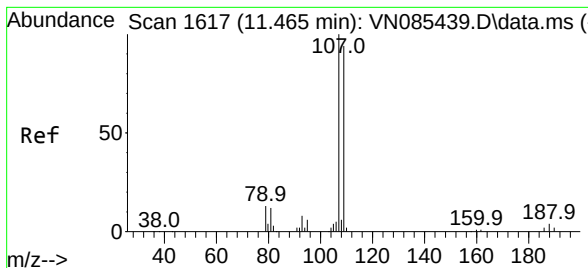
Tgt Ion: 43 Resp: 606740
Ion Ratio Lower Upper
43 100
58 52.4 26.2 78.6



#60
Dibromochloromethane
Concen: 51.116 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:129 Resp: 140704
Ion Ratio Lower Upper
129 100
127 77.2 38.6 115.8

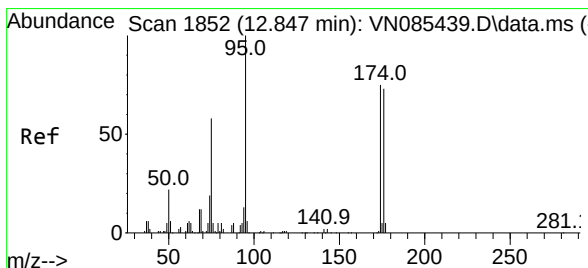
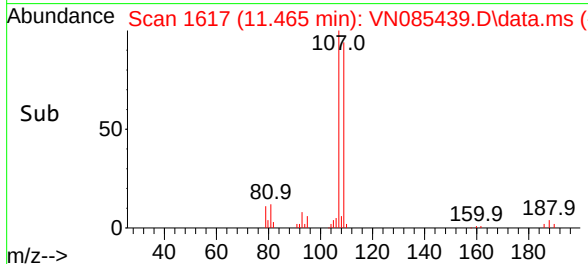
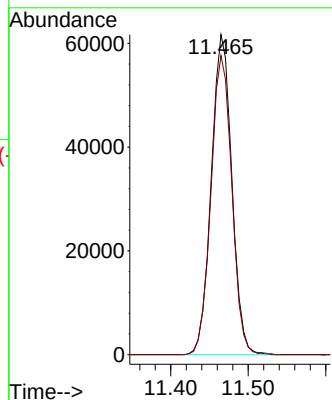
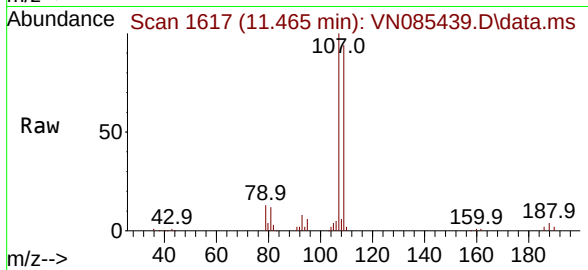




#61
1,2-Dibromoethane
Concen: 50.028 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

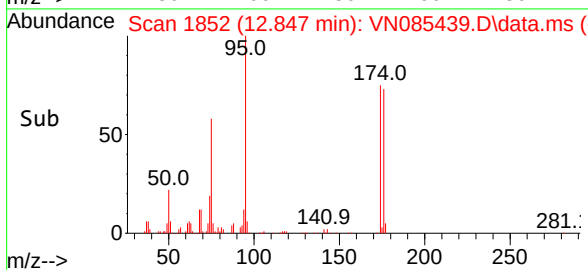
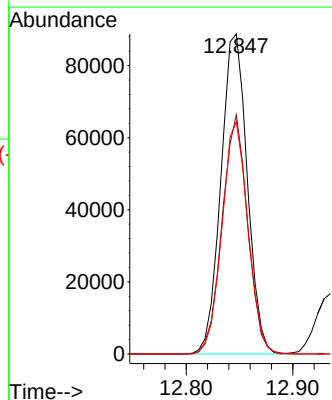
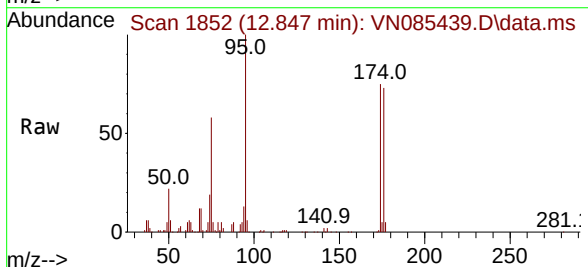
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

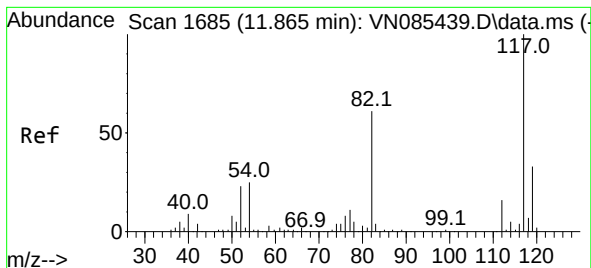
Tgt Ion:107 Resp: 113541
Ion Ratio Lower Upper
107 100
109 94.9 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 53.239 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 95 Resp: 152568
Ion Ratio Lower Upper
95 100
174 72.5 0.0 145.0
176 71.2 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

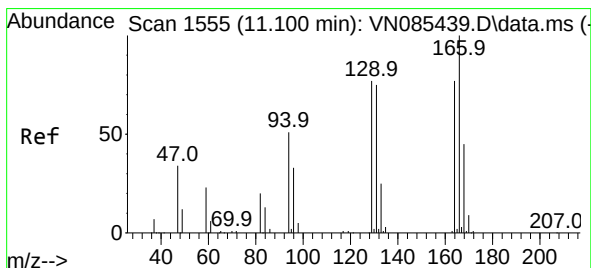
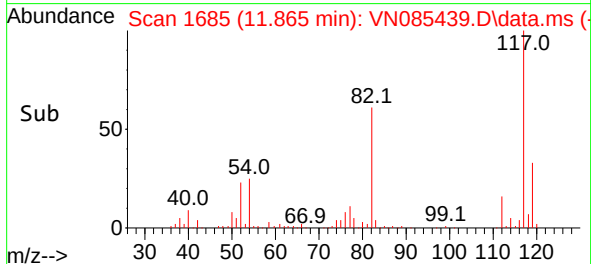
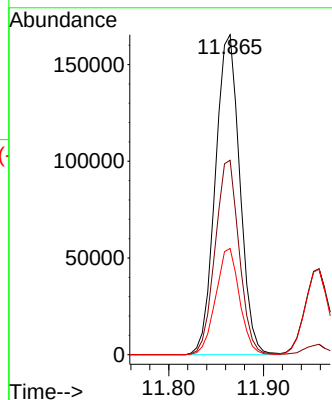
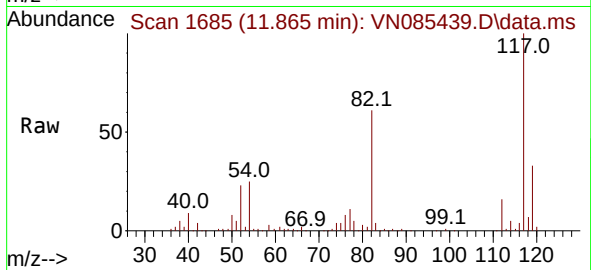
Tgt Ion:117 Resp: 297366

Ion Ratio Lower Upper

117 100

82 60.7 48.6 72.8

119 33.2 26.6 39.8



#64

Tetrachloroethene

Concen: 47.295 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Tgt Ion:164 Resp: 95879

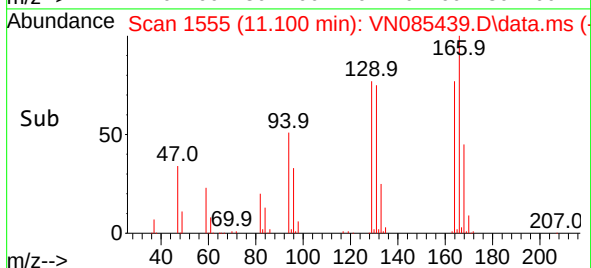
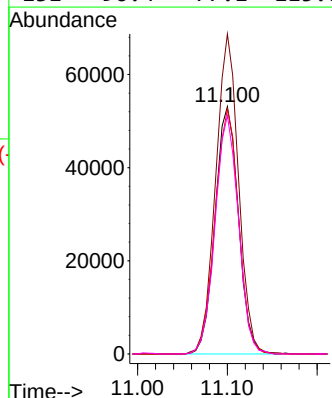
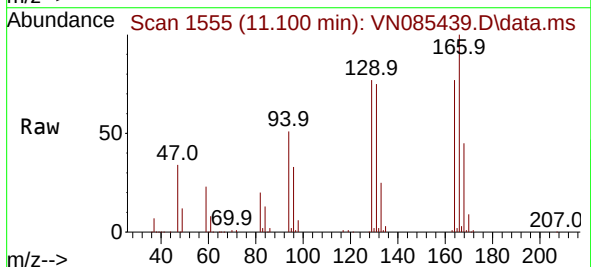
Ion Ratio Lower Upper

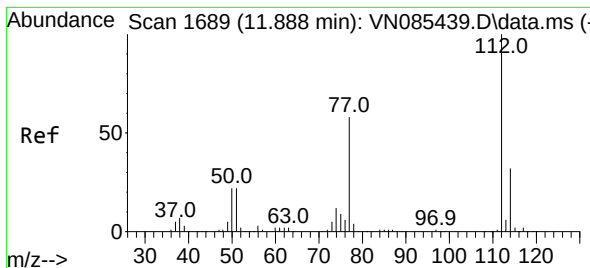
164 100

166 129.3 103.4 155.2

129 99.0 79.2 118.8

131 96.4 77.1 115.7

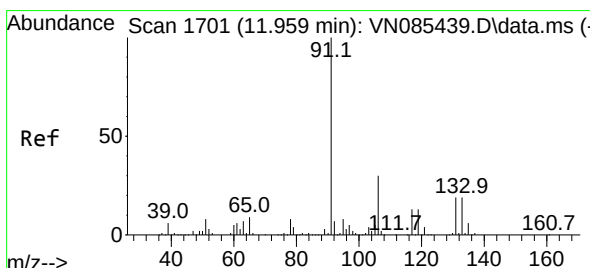
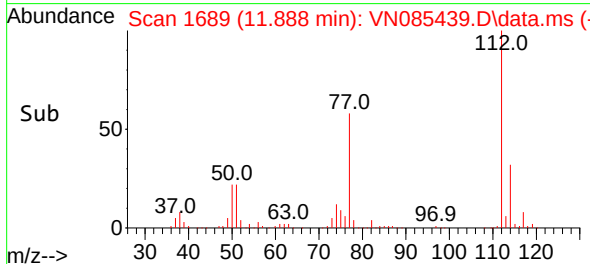
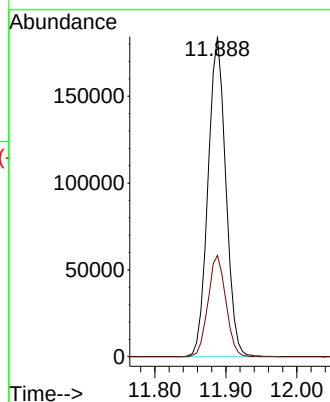
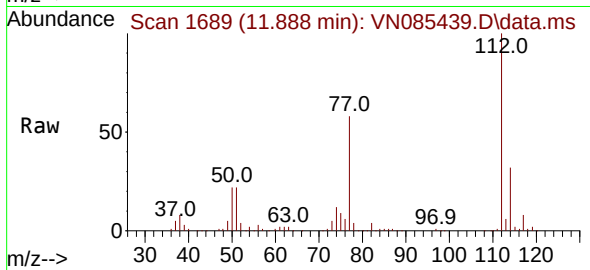




#65
Chlorobenzene
Concen: 49.121 ug/l
RT: 11.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

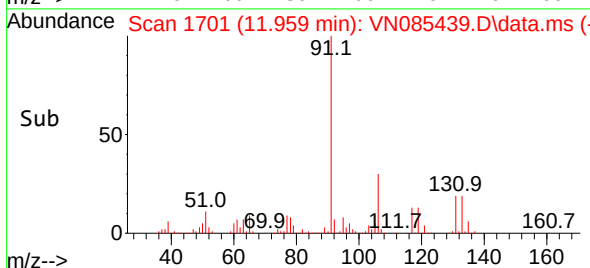
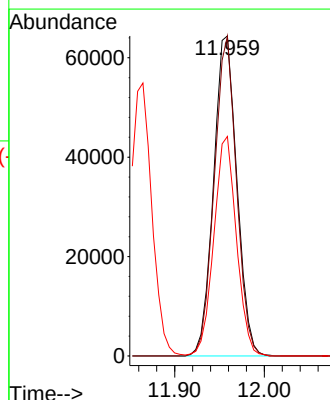
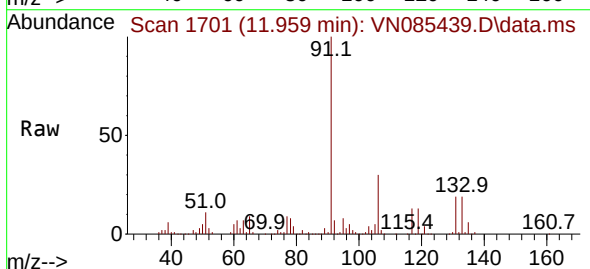
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

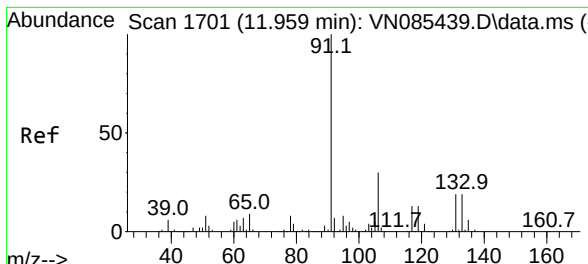
Tgt Ion:112 Resp: 319992
Ion Ratio Lower Upper
112 100
114 31.6 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 48.722 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:131 Resp: 116488
Ion Ratio Lower Upper
131 100
133 94.9 47.4 142.3
119 66.3 33.1 99.5

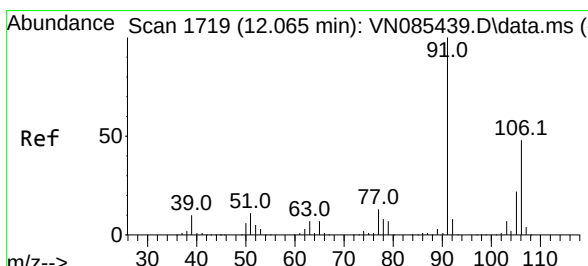
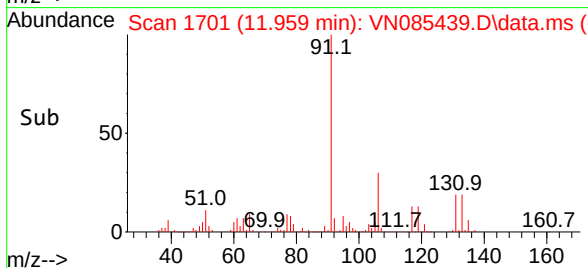
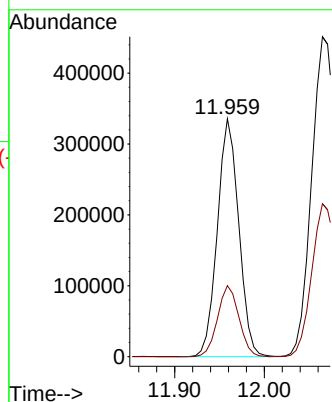
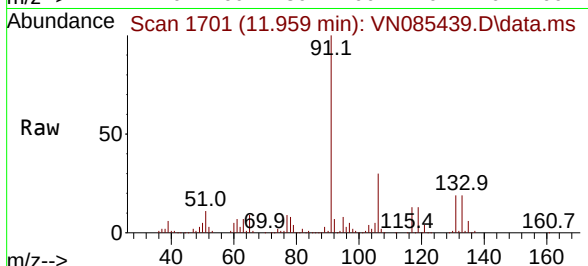




#67
Ethyl Benzene
Concen: 52.339 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

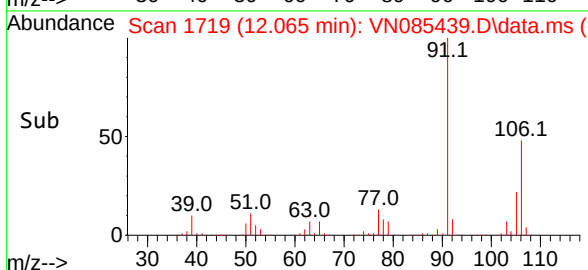
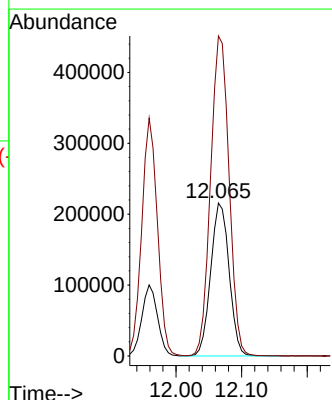
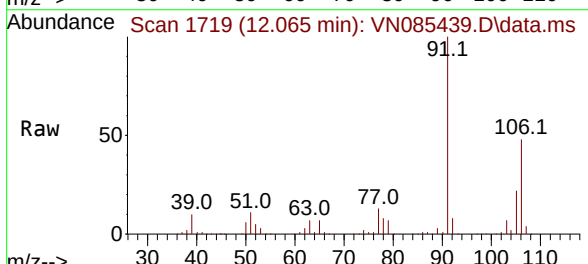
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

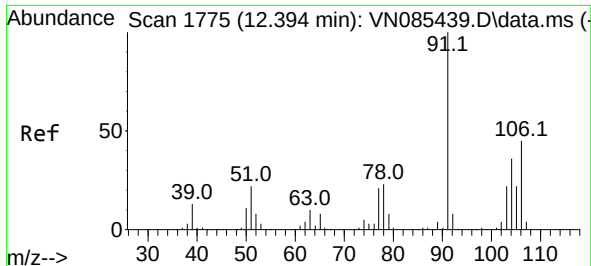
Tgt Ion: 91 Resp: 555322
Ion Ratio Lower Upper
91 100
106 29.8 23.8 35.8



#68
m/p-Xylenes
Concen: 107.286 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 106 Resp: 420702
Ion Ratio Lower Upper
106 100
91 209.6 167.7 251.5

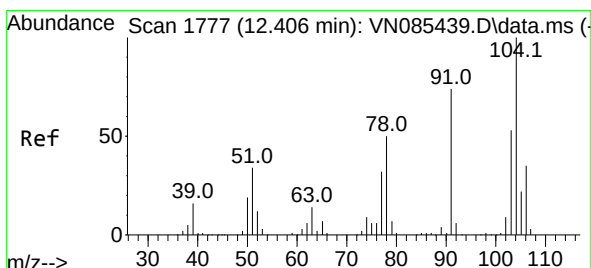
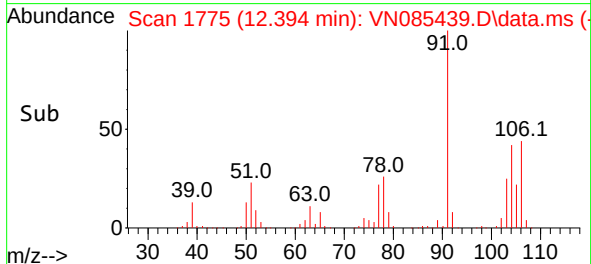
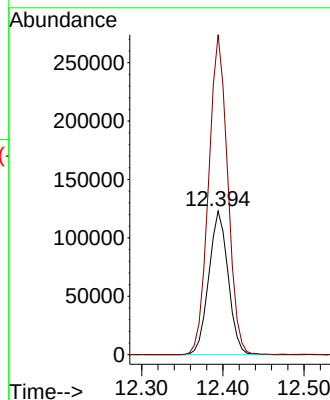
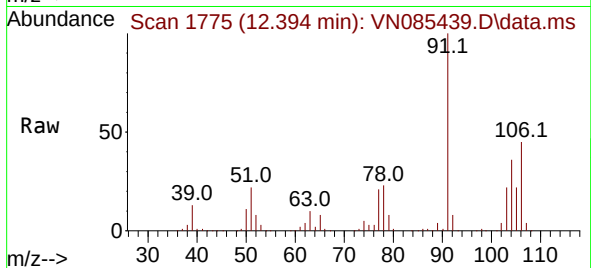




#69
o-Xylene
Concen: 54.062 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

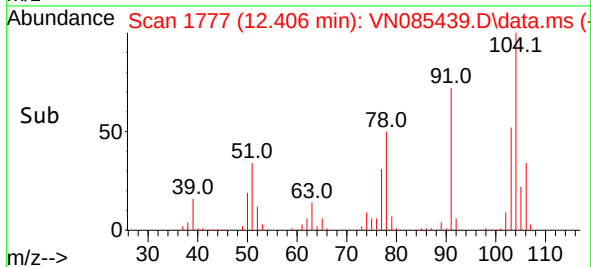
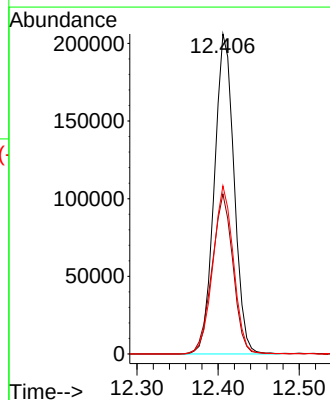
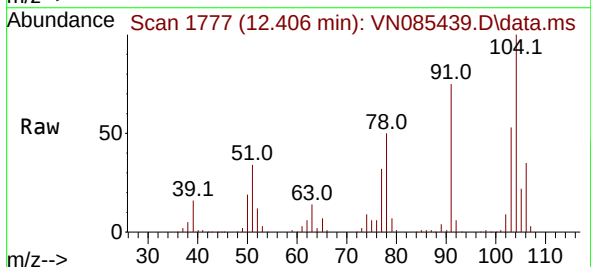
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

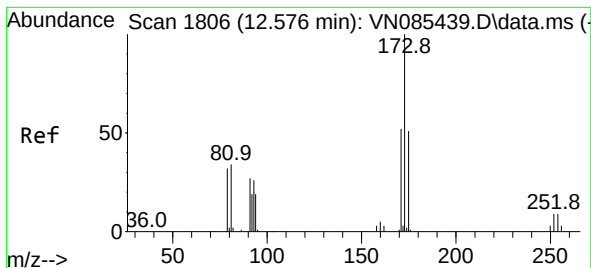
Tgt Ion:106 Resp: 202597
Ion Ratio Lower Upper
106 100
91 220.8 110.4 331.2



#70
Styrene
Concen: 56.227 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:104 Resp: 348720
Ion Ratio Lower Upper
104 100
78 53.1 42.5 63.7
103 54.8 43.8 65.8





#71

Bromoform

Concen: 53.993 ug/l

RT: 12.576 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

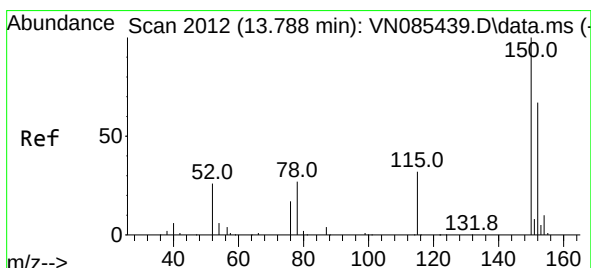
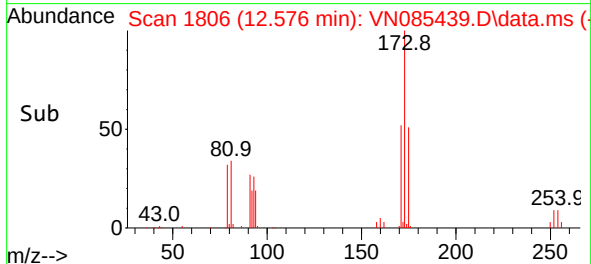
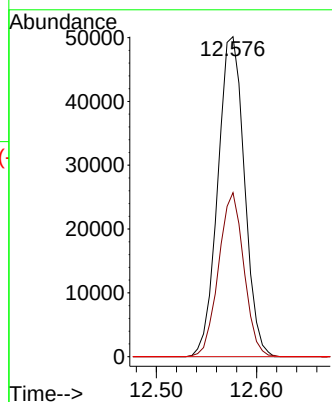
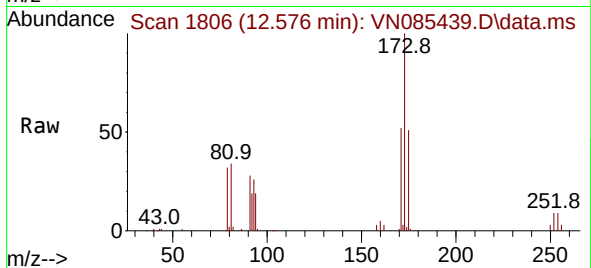
Tgt Ion:173 Resp: 92366

Ion Ratio Lower Upper

173 100

175 48.8 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

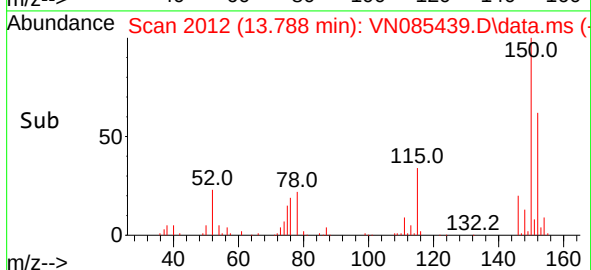
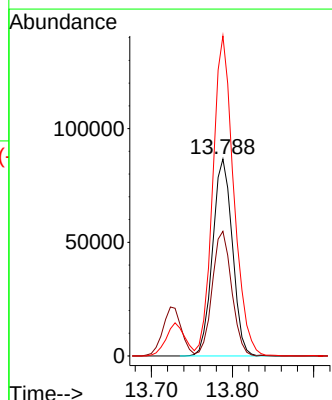
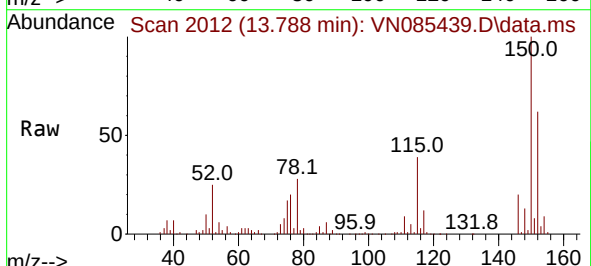
Tgt Ion:152 Resp: 146624

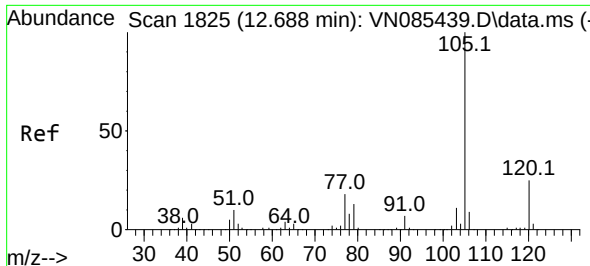
Ion Ratio Lower Upper

152 100

115 62.2 31.1 93.3

150 171.8 0.0 343.6

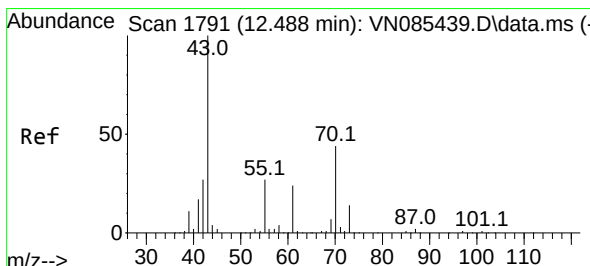
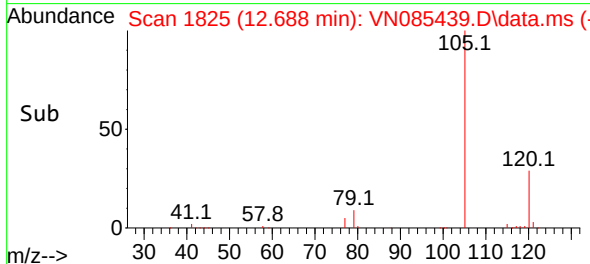
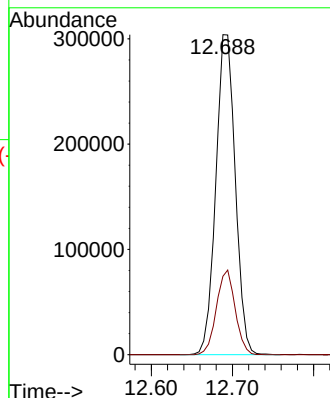
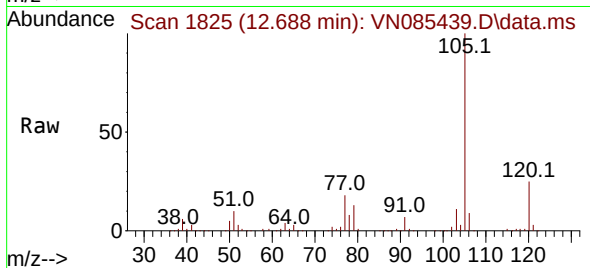




#73
Isopropylbenzene
Concen: 51.094 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

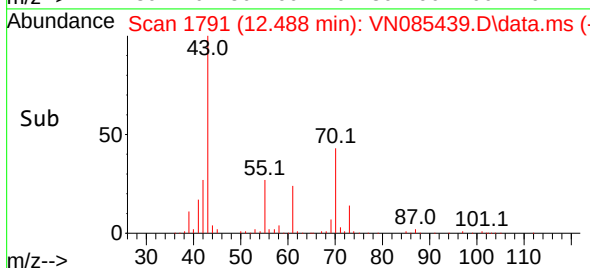
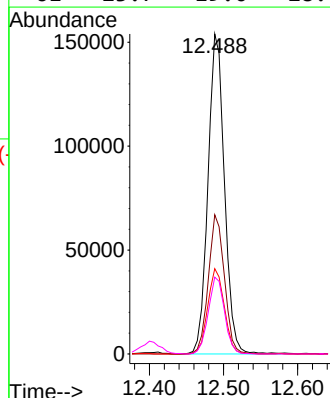
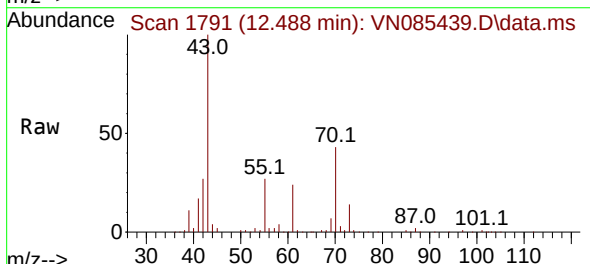
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

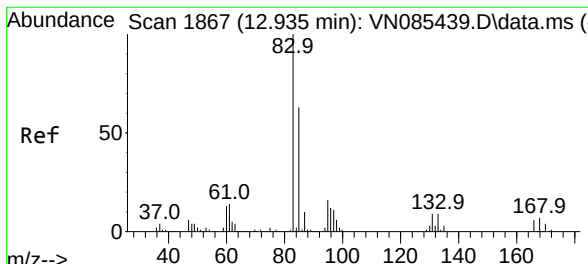
Tgt Ion:105 Resp: 505619
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.3



#74
N-ethyl acetate
Concen: 53.478 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 43 Resp: 237870
Ion Ratio Lower Upper
43 100
70 42.5 34.0 51.0
55 26.8 21.4 32.2
61 23.7 19.0 28.4



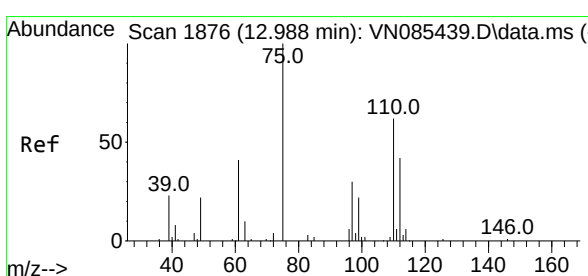
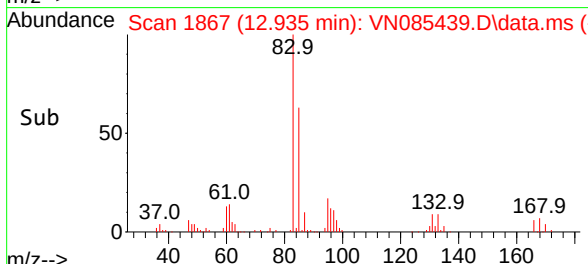
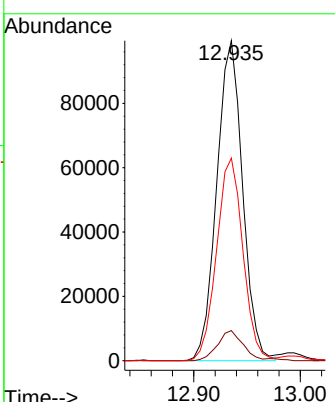
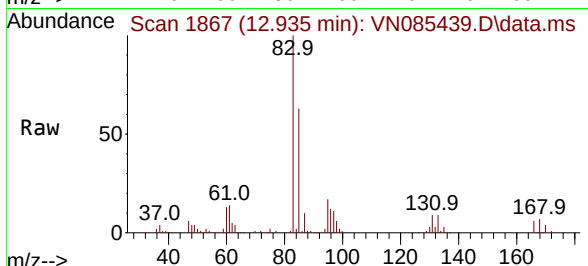


#75
 1,1,2,2-Tetrachloroethane
 Concen: 48.019 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 83 Resp: 167856

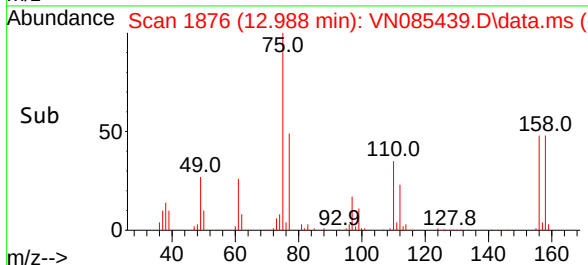
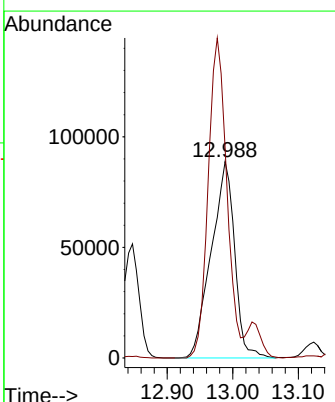
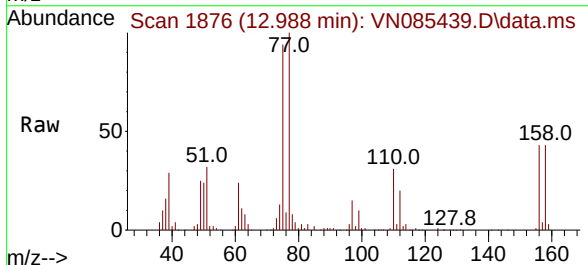
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.4	32.2	96.6

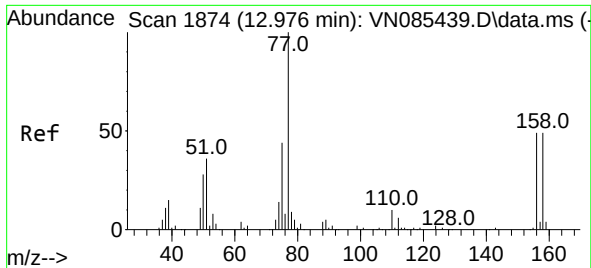


#76
 1,2,3-Trichloropropane
 Concen: 73.773 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 219507

Ion	Ratio	Lower	Upper
75	100		
77	130.9	109.7	329.2

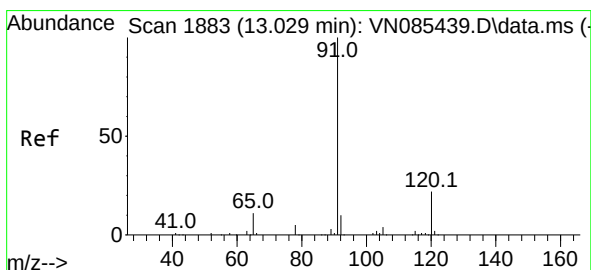
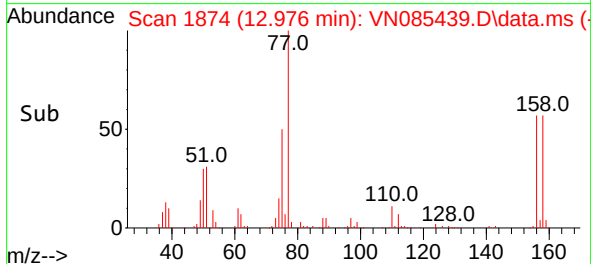
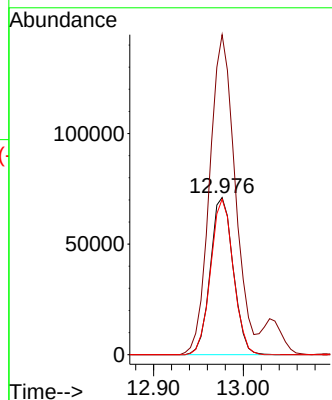
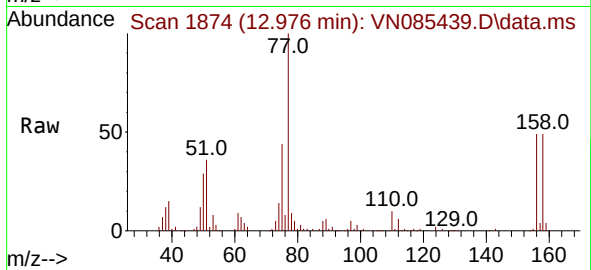




#77
Bromobenzene
Concen: 48.657 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

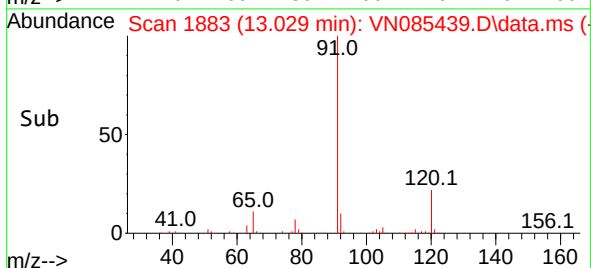
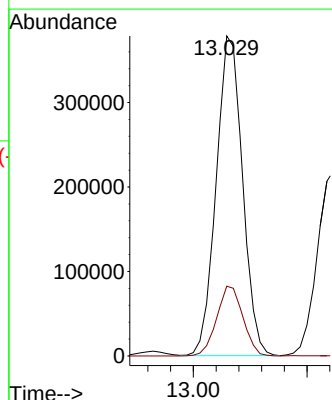
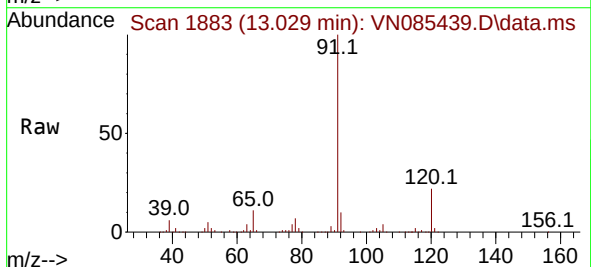
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

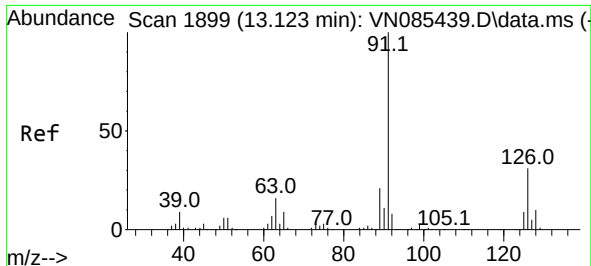
Tgt Ion:156 Resp: 125800
Ion Ratio Lower Upper
156 100
77 228.3 114.1 342.4
158 97.9 48.9 146.8



#78
n-propylbenzene
Concen: 51.986 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 91 Resp: 609022
Ion Ratio Lower Upper
91 100
120 21.7 10.9 32.6





#79

2-Chlorotoluene

Concen: 49.985 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

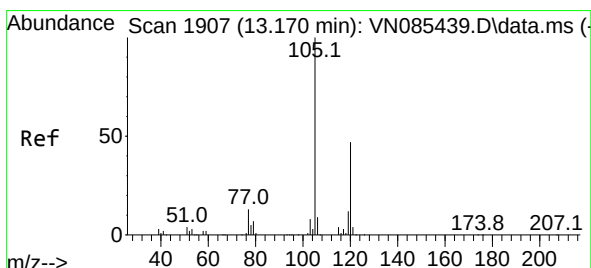
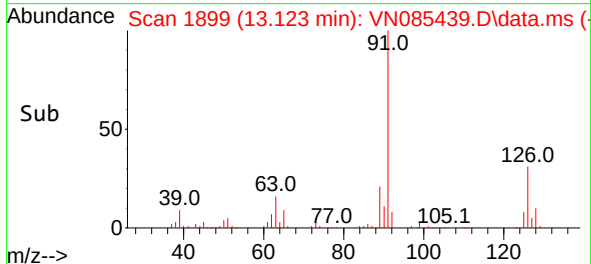
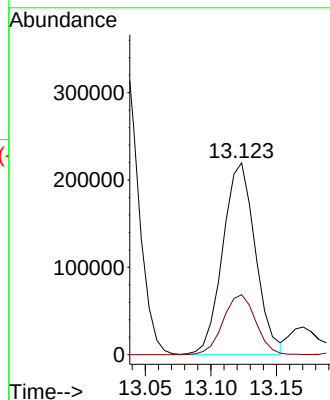
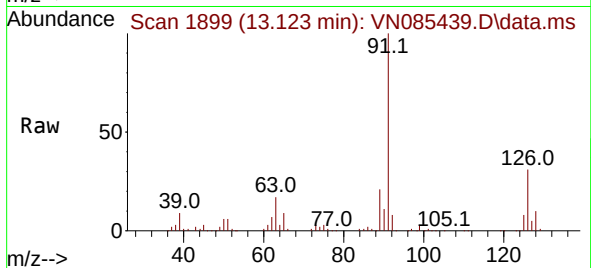
VSTDICCC050

Tgt Ion: 91 Resp: 378981

Ion Ratio Lower Upper

91 100

126 31.4 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 52.730 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085439.D

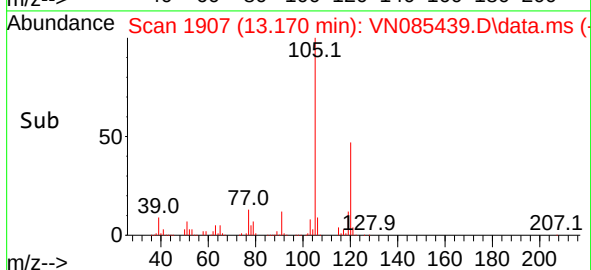
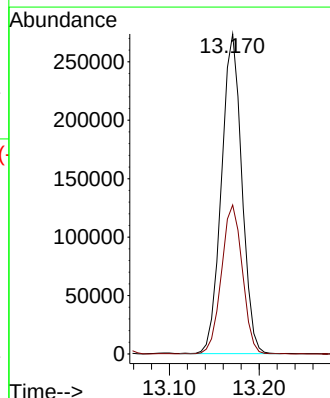
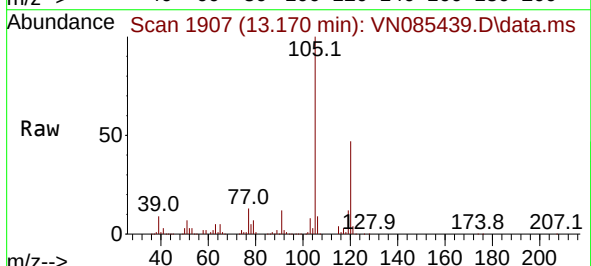
Acq: 14 Jan 2025 15:19

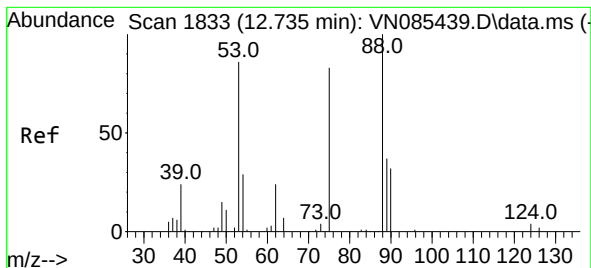
Tgt Ion: 105 Resp: 431021

Ion Ratio Lower Upper

105 100

120 47.8 23.9 71.7

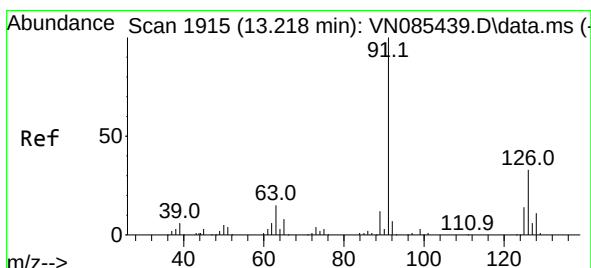
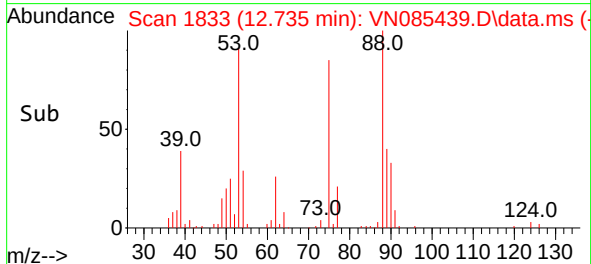
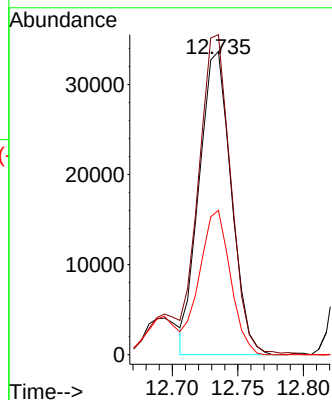
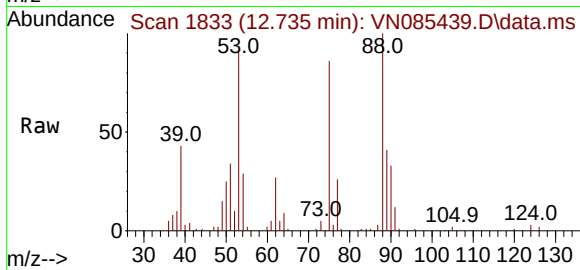




#81
trans-1,4-Dichloro-2-butene
Concen: 51.914 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

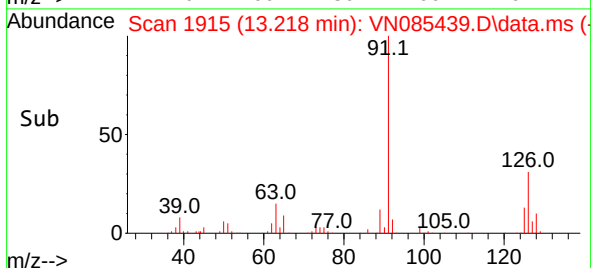
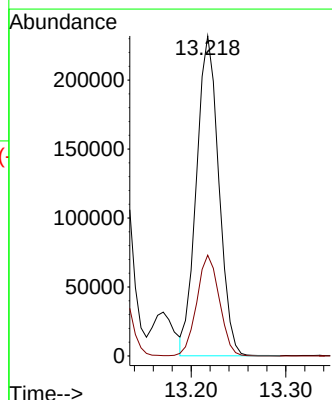
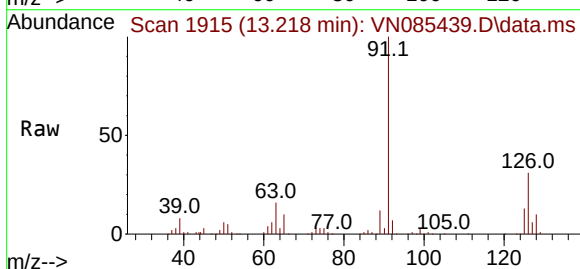
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

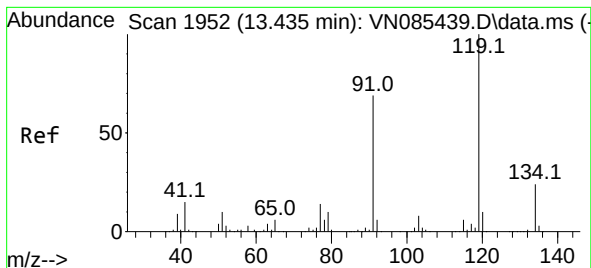
Tgt Ion:	75	Resp:	57184
Ion	Ratio	Lower	Upper
75	100		
53	119.5	95.6	143.4
89	46.3	37.0	55.6



#82
4-Chlorotoluene
Concen: 50.273 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion:	91	Resp:	379524
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7





#83

tert-Butylbenzene

Concen: 52.090 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

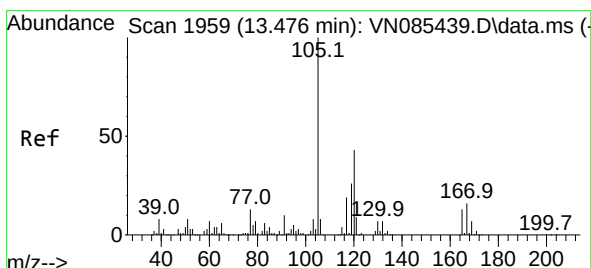
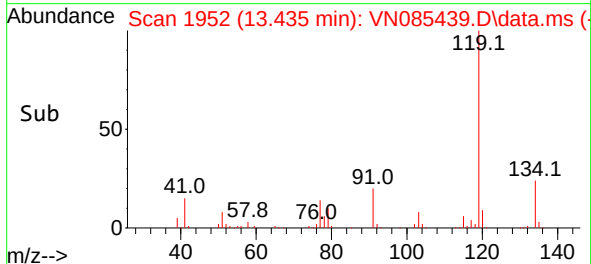
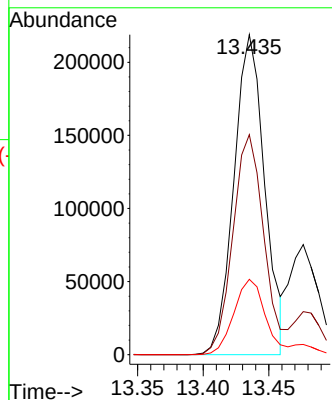
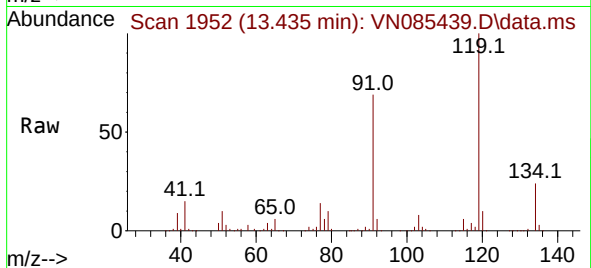
Tgt Ion:119 Resp: 357563

Ion Ratio Lower Upper

119 100

91 70.2 35.1 105.3

134 24.1 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 54.275 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085439.D

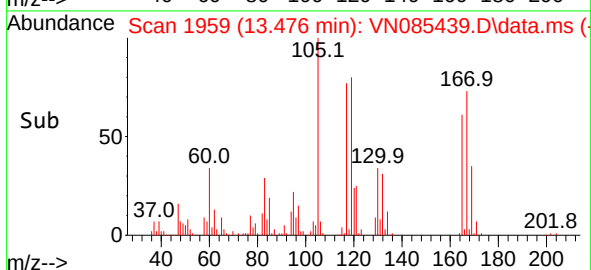
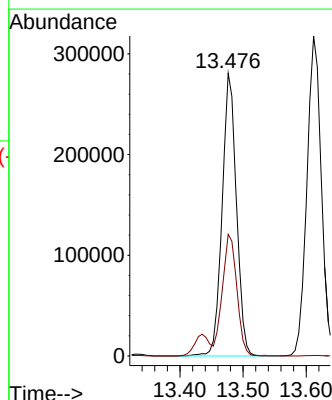
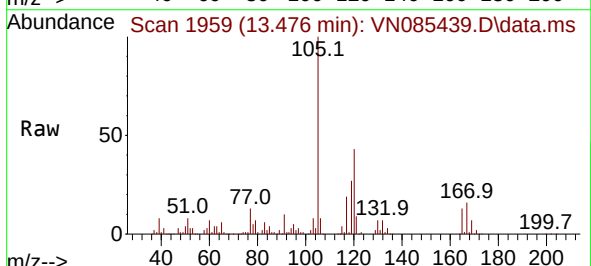
Acq: 14 Jan 2025 15:19

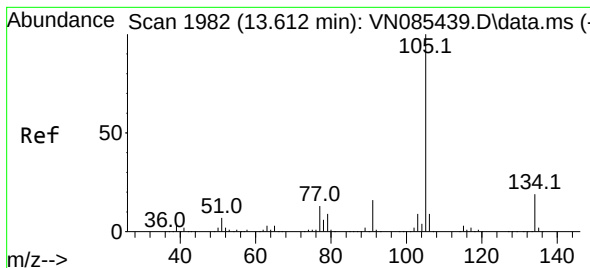
Tgt Ion:105 Resp: 442175

Ion Ratio Lower Upper

105 100

120 43.3 21.6 65.0

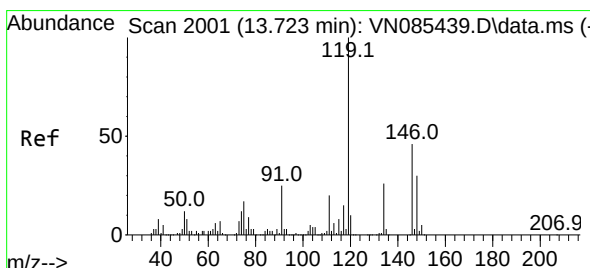
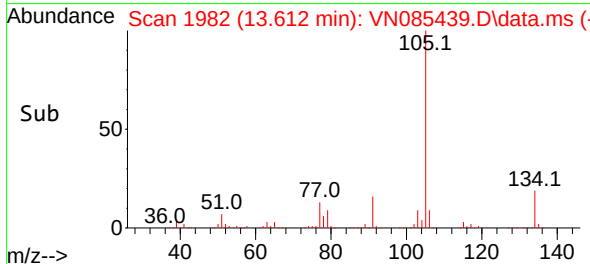
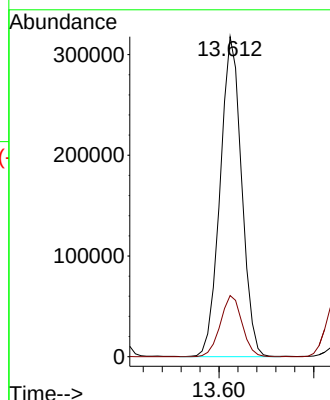
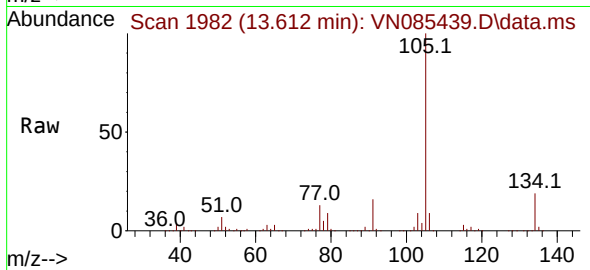




#85
 sec-Butylbenzene
 Concen: 52.719 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

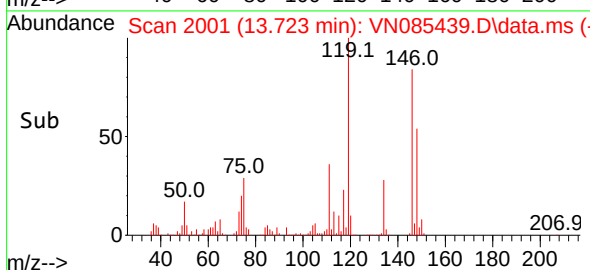
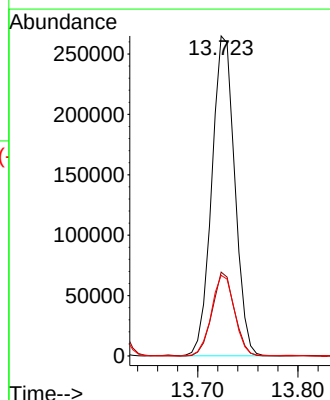
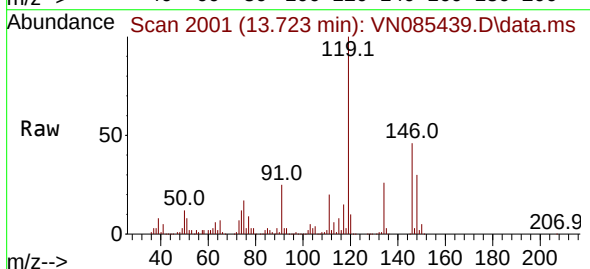
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

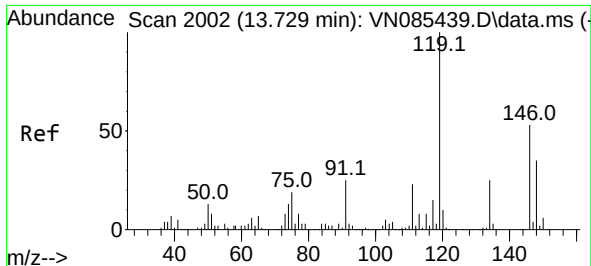
Tgt Ion:105 Resp: 501561
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 49.240 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Tgt Ion:119 Resp: 421052
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.7 38.0
 91 25.4 12.7 38.1

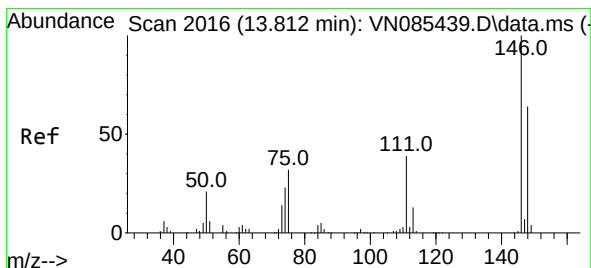
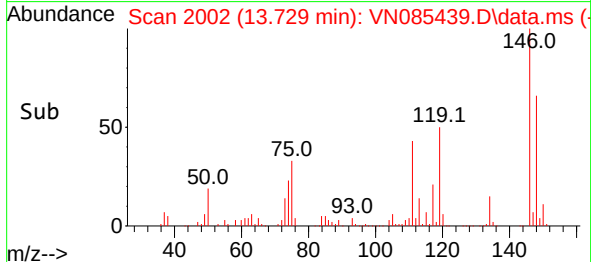
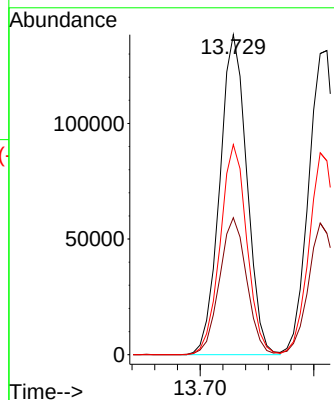
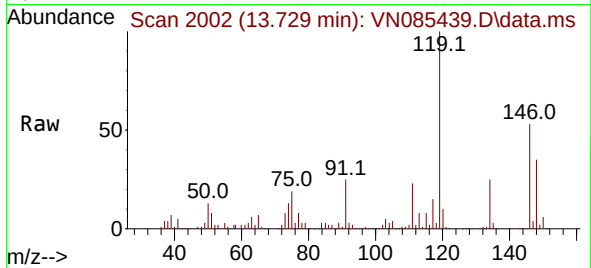




#87
 1,3-Dichlorobenzene
 Concen: 48.204 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

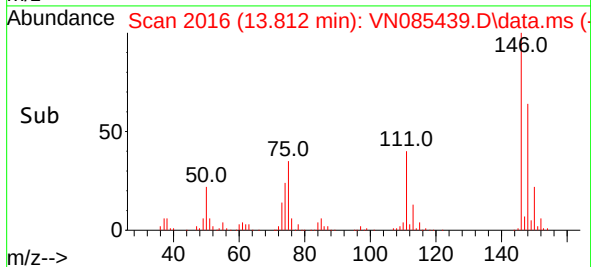
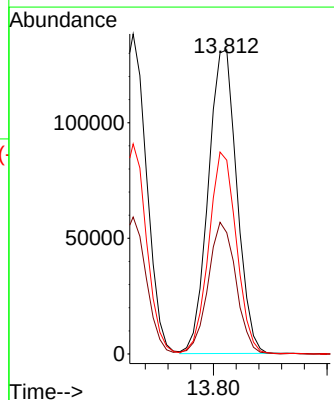
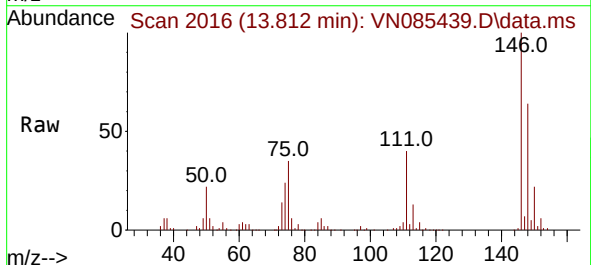
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

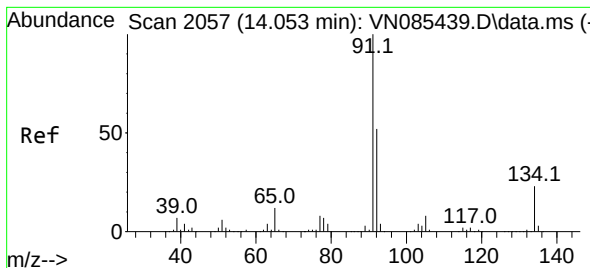
Tgt Ion:146 Resp: 229518
 Ion Ratio Lower Upper
 146 100
 111 42.9 21.4 64.3
 148 64.6 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 46.416 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085439.D
 Acq: 14 Jan 2025 15:19

Tgt Ion:146 Resp: 229084
 Ion Ratio Lower Upper
 146 100
 111 42.5 21.3 63.7
 148 64.7 32.4 97.0

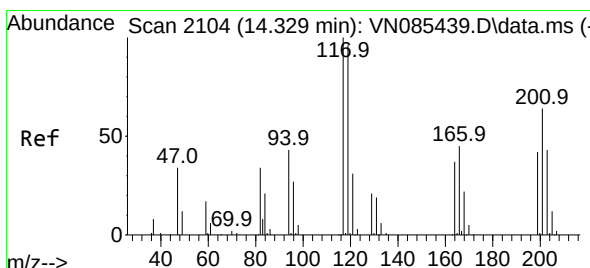
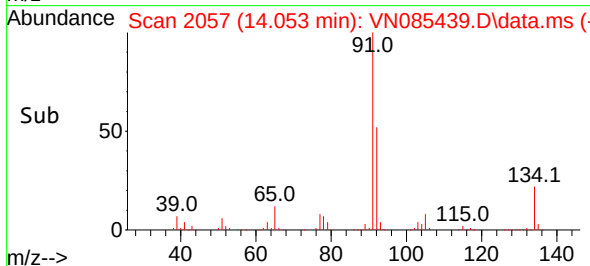
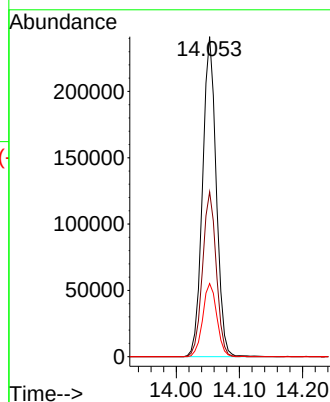
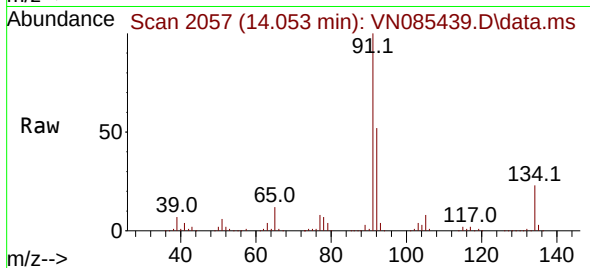




#89
n-Butylbenzene
Concen: 53.348 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

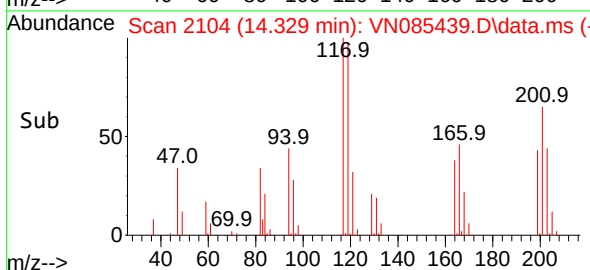
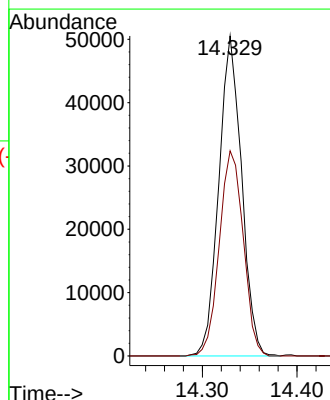
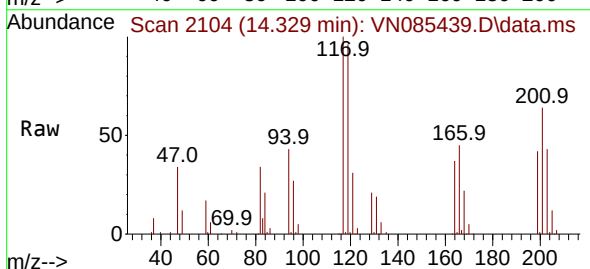
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

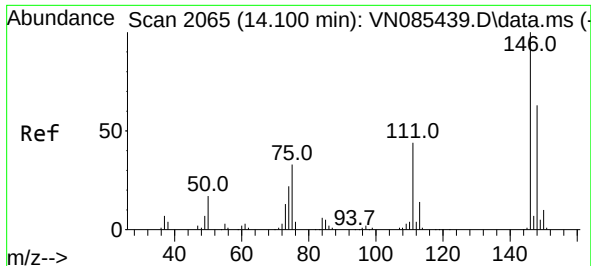
Tgt Ion: 91 Resp: 364111
Ion Ratio Lower Upper
91 100
92 51.5 25.8 77.3
134 23.4 11.7 35.1



#90
Hexachloroethane
Concen: 46.712 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 117 Resp: 84602
Ion Ratio Lower Upper
117 100
201 67.3 33.7 101.0

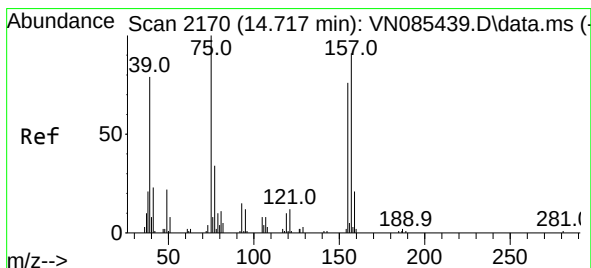
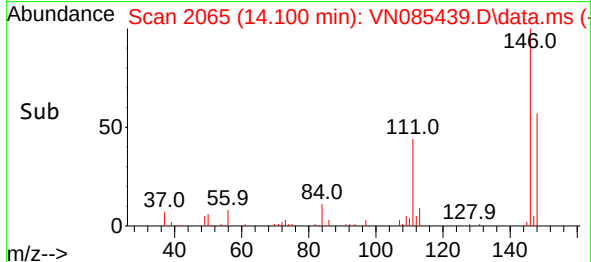
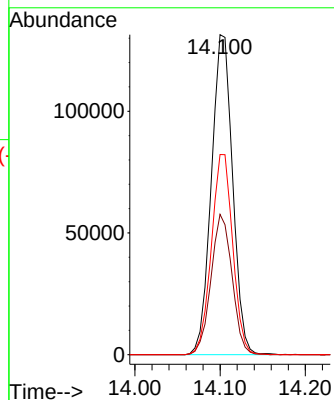
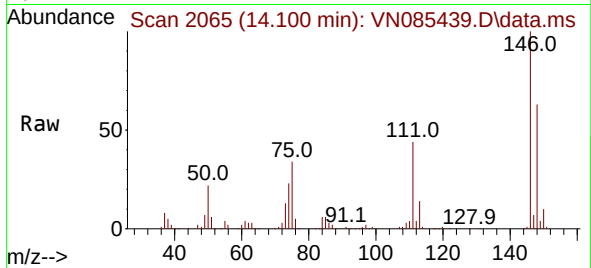




#91
1,2-Dichlorobenzene
Concen: 48.012 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

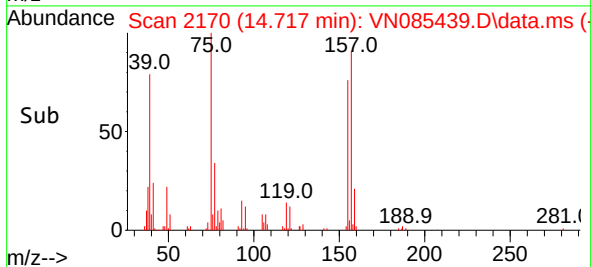
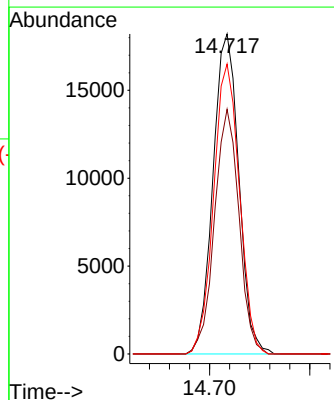
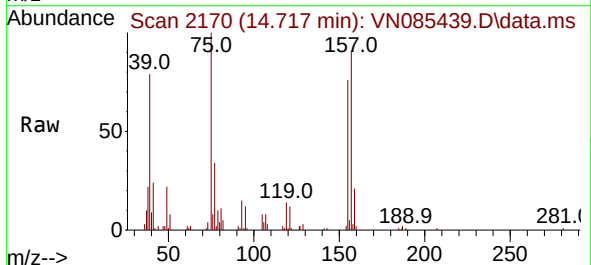
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

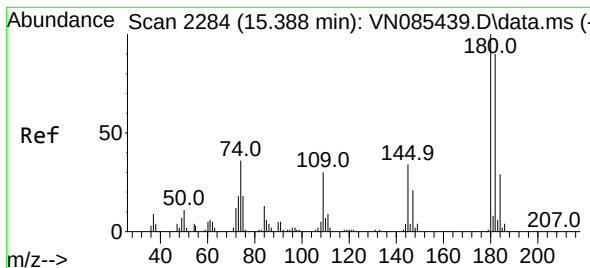
Tgt Ion:146 Resp: 228024
Ion Ratio Lower Upper
146 100
111 43.4 21.7 65.1
148 62.8 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.971 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085439.D
Acq: 14 Jan 2025 15:19

Tgt Ion: 75 Resp: 32536
Ion Ratio Lower Upper
75 100
155 72.8 36.4 109.2
157 90.7 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 51.857 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

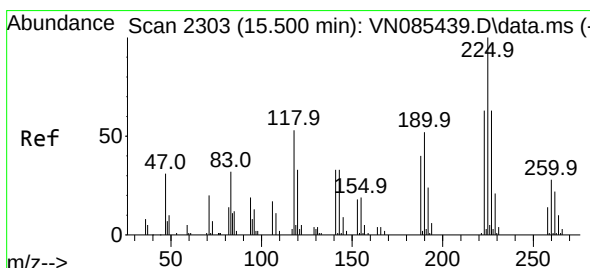
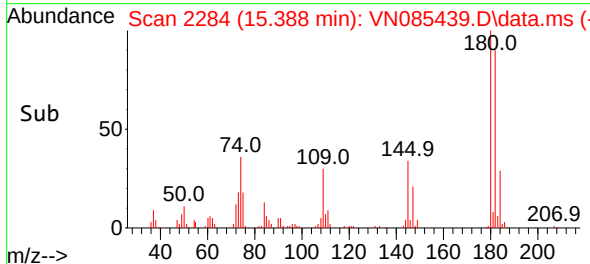
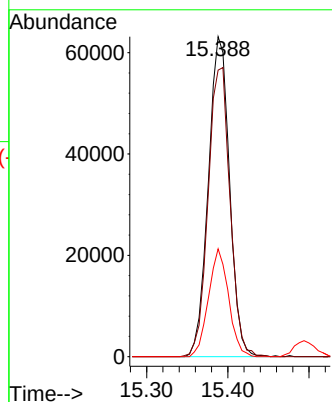
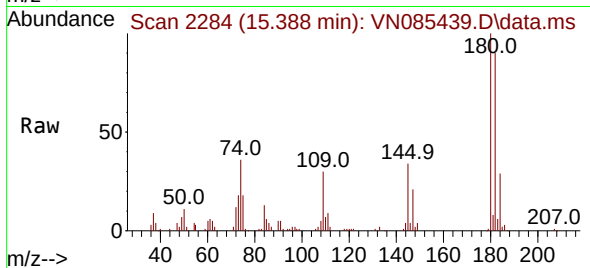
Tgt Ion:180 Resp: 114468

Ion Ratio Lower Upper

180 100

182 93.5 46.8 140.3

145 32.0 16.0 48.0



#94

Hexachlorobutadiene

Concen: 45.947 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

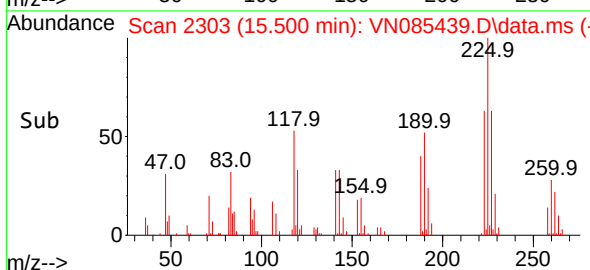
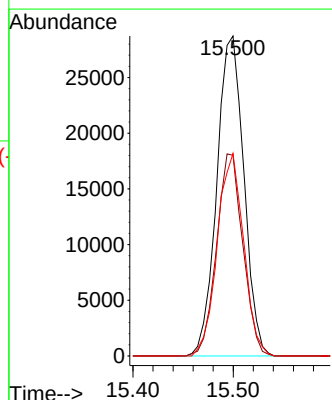
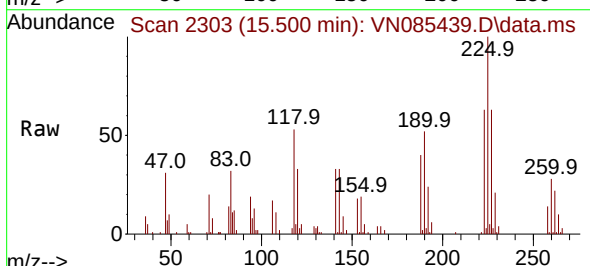
Tgt Ion:225 Resp: 53846

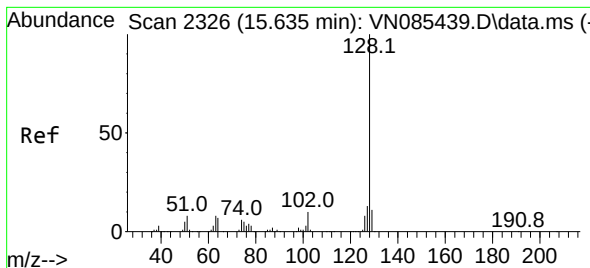
Ion Ratio Lower Upper

225 100

223 61.4 30.7 92.1

227 61.7 30.9 92.5





#95

Naphthalene

Concen: 55.243 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

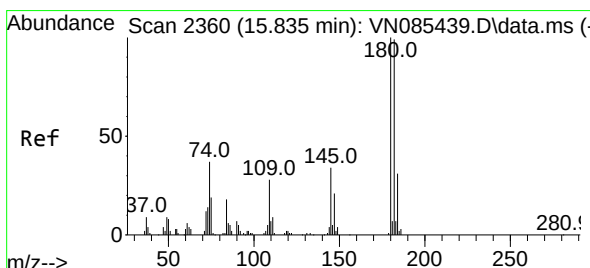
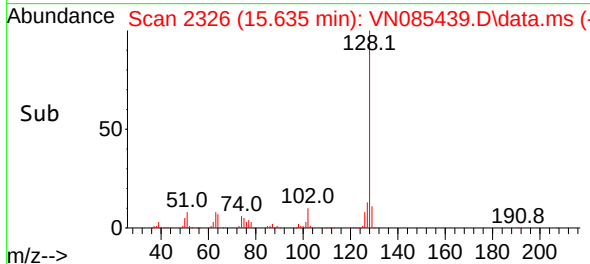
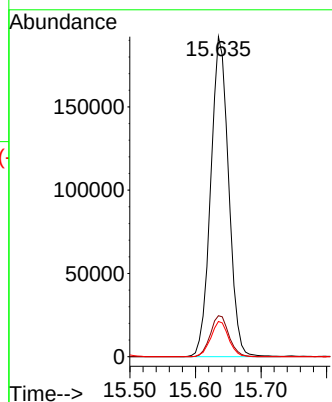
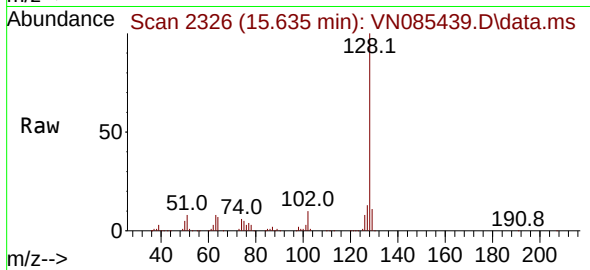
Tgt Ion:128 Resp: 363882

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

129 11.0 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 51.601 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085439.D

Acq: 14 Jan 2025 15:19

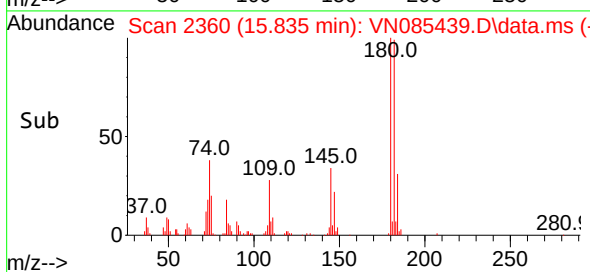
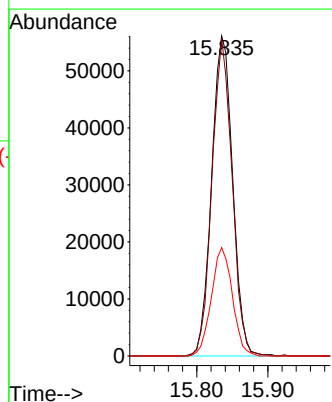
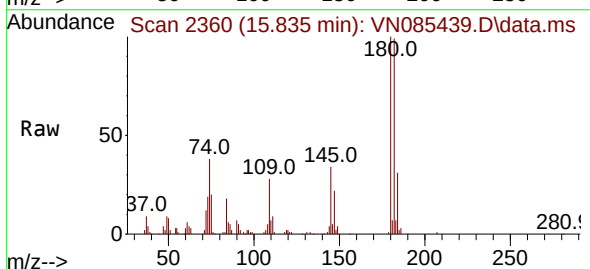
Tgt Ion:180 Resp: 115251

Ion Ratio Lower Upper

180 100

182 94.8 47.4 142.2

145 33.8 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085440.D
 Acq On : 14 Jan 2025 15:43
 Operator : JC\MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Quant Time: Jan 15 01:43:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	200796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296298	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143526	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	60593	18.694	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	37.380%#
35) Dibromofluoromethane	8.165	113	45655	19.322	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	38.640%#
50) Toluene-d8	10.559	98	164391	19.581	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	39.160%#
62) 4-Bromofluorobenzene	12.847	95	55798	19.430	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.860%#

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	54666	20.107	ug/l	98
3) Chloromethane	2.359	50	58426	19.848	ug/l	100
4) Vinyl Chloride	2.512	62	58403	19.739	ug/l	99
5) Bromomethane	2.954	94	36440	20.389	ug/l	94
6) Chloroethane	3.118	64	37594	20.041	ug/l	93
7) Trichlorofluoromethane	3.501	101	88121	20.526	ug/l	99
8) Diethyl Ether	3.965	74	29138	19.647	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	48933	20.237	ug/l	99
10) Methyl Iodide	4.589	142	56567	20.428	ug/l	93
11) Tert butyl alcohol	5.506	59	37984	102.342	ug/l	100
12) 1,1-Dichloroethene	4.342	96	44670	20.728	ug/l	95
13) Acrolein	4.171	56	49649	97.995	ug/l	99
14) Allyl chloride	5.024	41	67705	19.362	ug/l	96
15) Acrylonitrile	5.712	53	121626	103.171	ug/l	99
16) Acetone	4.424	43	101065	96.502	ug/l	96
17) Carbon Disulfide	4.712	76	132300	19.939	ug/l	98
18) Methyl Acetate	5.018	43	60873	19.115	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	148847	21.272	ug/l	100
20) Methylene Chloride	5.271	84	52813	20.370	ug/l	97
21) trans-1,2-Dichloroethene	5.789	96	46115	20.023	ug/l	98
22) Diisopropyl ether	6.671	45	166719	21.480	ug/l	97
23) Vinyl Acetate	6.594	43	666942	122.364	ug/l	99
24) 1,1-Dichloroethane	6.565	63	96875	20.469	ug/l #	96
25) 2-Butanone	7.477	43	159952	103.786	ug/l	98
26) 2,2-Dichloropropane	7.483	77	79145	20.684	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	57454	21.180	ug/l	98
28) Bromochloromethane	7.812	49	41181	18.703	ug/l	99
29) Tetrahydrofuran	7.836	42	104792	107.247	ug/l	99
30) Chloroform	7.959	83	99655	20.374	ug/l	99
31) Cyclohexane	8.253	56	82980	20.173	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	87659	20.431	ug/l	98
36) 1,1-Dichloropropene	8.371	75	67949	20.490	ug/l	98
37) Ethyl Acetate	7.553	43	66443	19.850	ug/l	96
38) Carbon Tetrachloride	8.359	117	78842	20.767	ug/l	96
39) Methylcyclohexane	9.594	83	65012	20.862	ug/l	96
40) Benzene	8.600	78	207985	20.873	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085440.D
 Acq On : 14 Jan 2025 15:43
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Jan 15 01:43:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	36578	21.004	ug/l	99
42) 1,2-Dichloroethane	8.665	62	78402	20.891	ug/l	99
43) Isopropyl Acetate	8.683	43	109131	20.347	ug/l	98
44) Trichloroethene	9.347	130	48009	20.699	ug/l	96
45) 1,2-Dichloropropane	9.618	63	52833	20.758	ug/l	93
46) Dibromomethane	9.700	93	37721	20.540	ug/l	98
47) Bromodichloromethane	9.882	83	78918	21.093	ug/l	96
48) Methyl methacrylate	9.677	41	50224	20.808	ug/l	96
49) 1,4-Dioxane	9.688	88	17140	421.686	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	336911	108.249	ug/l	100
52) Toluene	10.630	92	125172	21.680	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	74129	20.965	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	81897	21.684	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	48039	21.025	ug/l	97
56) Ethyl methacrylate	10.871	69	70934	19.649	ug/l	99
57) 1,3-Dichloropropane	11.159	76	84210	21.196	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	153681	105.991	ug/l	100
59) 2-Hexanone	11.194	43	240595	109.863	ug/l	98
60) Dibromochloromethane	11.353	129	56069	20.326	ug/l	96
61) 1,2-Dibromoethane	11.465	107	48465	21.309	ug/l	96
64) Tetrachloroethene	11.100	164	43243	21.408	ug/l	96
65) Chlorobenzene	11.888	112	136809	21.077	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	48370	20.304	ug/l	98
67) Ethyl Benzene	11.959	91	229978	21.753	ug/l	98
68) m/p-Xylenes	12.071	106	177755	45.494	ug/l	100
69) o-Xylene	12.394	106	84548	22.643	ug/l	98
70) Styrene	12.412	104	140581	22.749	ug/l	99
71) Bromoform	12.576	173	36961	21.683	ug/l #	96
73) Isopropylbenzene	12.694	105	211354	21.819	ug/l	100
74) N-amyl acetate	12.494	43	94292	21.656	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	68151	19.917	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	90004	30.902	ug/l	46
77) Bromobenzene	12.976	156	52022	20.556	ug/l	99
78) n-propylbenzene	13.035	91	252610	22.028	ug/l	100
79) 2-Chlorotoluene	13.123	91	158511	21.358	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	180294	22.533	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	25146	23.322	ug/l #	82
82) 4-Chlorotoluene	13.218	91	161880	21.906	ug/l	100
83) tert-Butylbenzene	13.435	119	147541	21.958	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	183144	22.965	ug/l	99
85) sec-Butylbenzene	13.612	105	209133	22.457	ug/l	100
86) p-Isopropyltoluene	13.729	119	168888	21.661	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	97652	20.952	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	98321	20.351	ug/l	99
89) n-Butylbenzene	14.053	91	142673	21.355	ug/l	99
90) Hexachloroethane	14.329	117	35205	19.858	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	94954	20.425	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12859	20.580	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	45878	21.233	ug/l	99
94) Hexachlorobutadiene	15.500	225	22719	19.805	ug/l	95
95) Naphthalene	15.635	128	134793	20.906	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	45468	20.797	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085440.D
Acq On : 14 Jan 2025 15:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

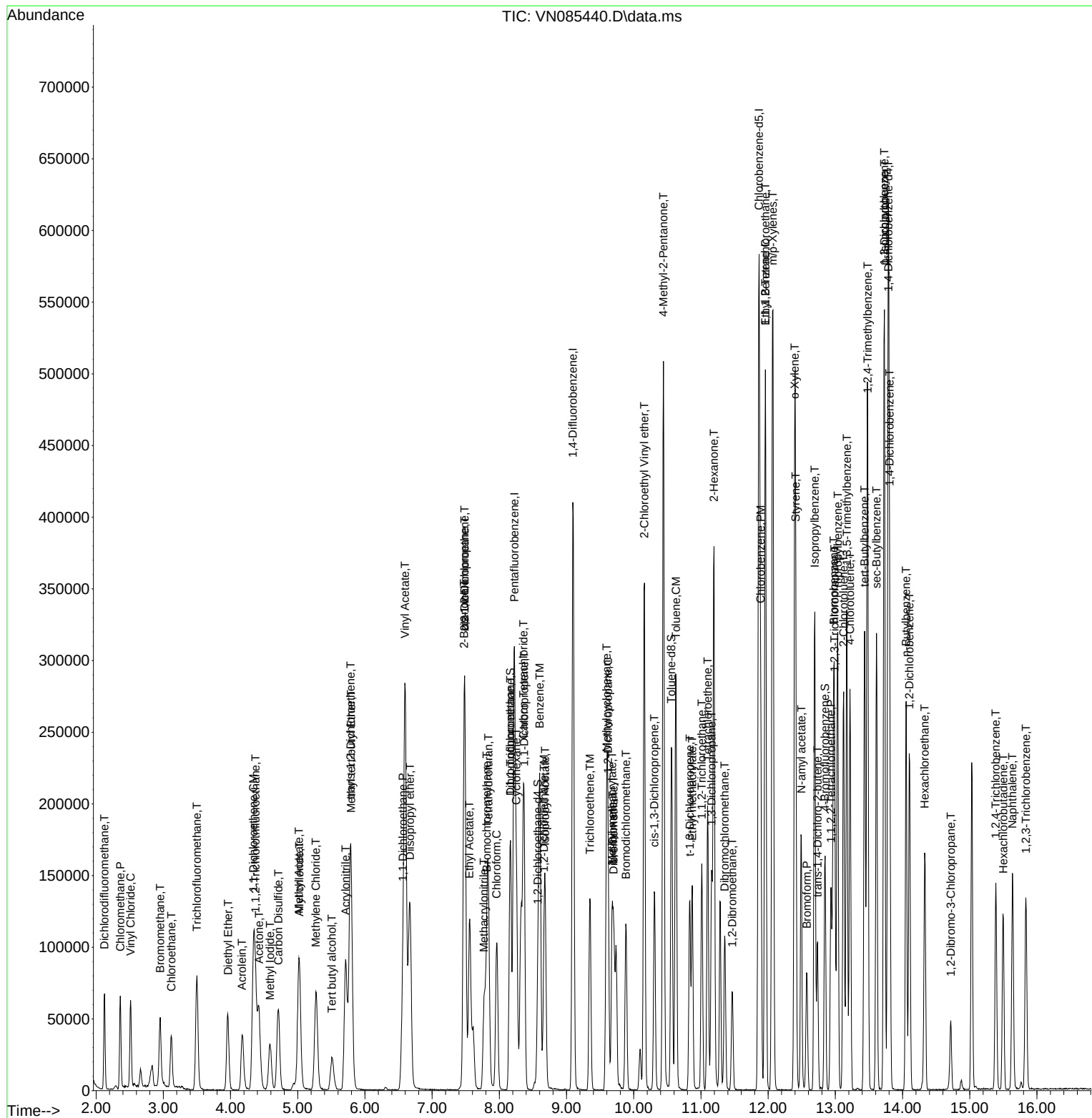
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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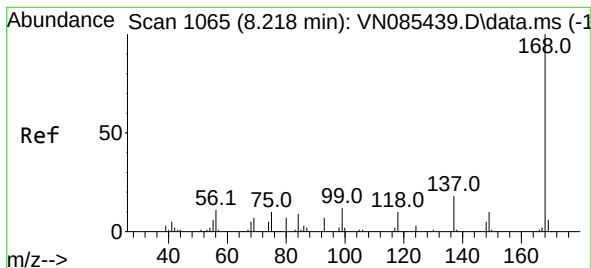
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\  
Data File : VN085440.D  
Acq On    : 14 Jan 2025  15:43  
Operator  : JC\MD  
Sample    : VSTDIC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jan 15 01:43:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

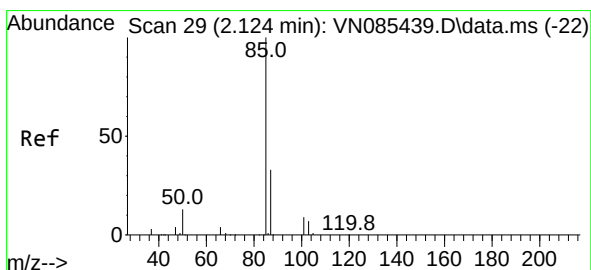
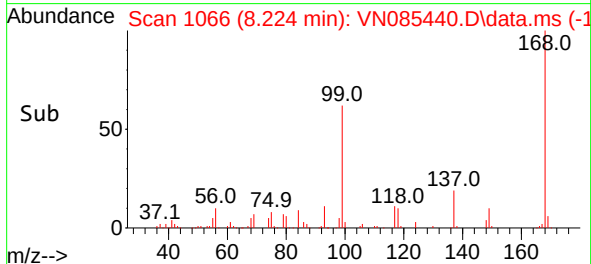
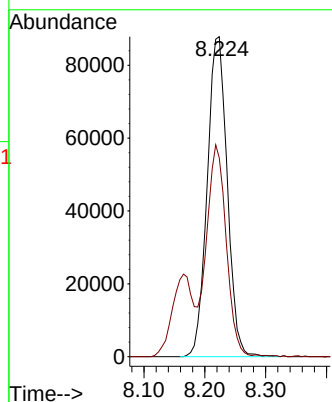
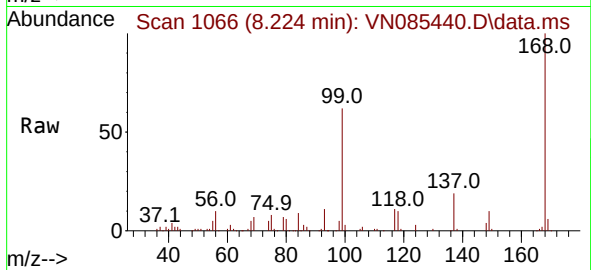




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

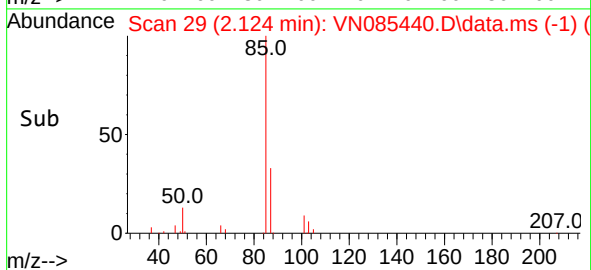
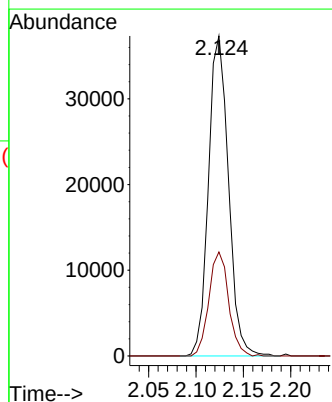
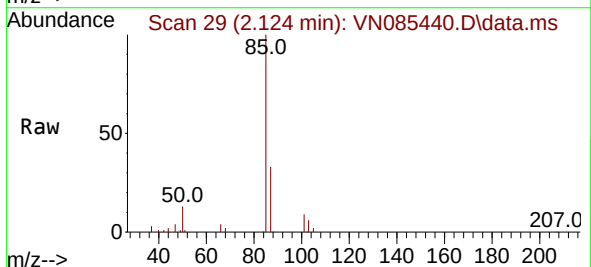
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

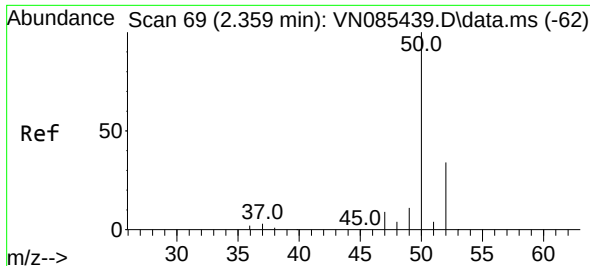
Tgt Ion:168 Resp: 200796
Ion Ratio Lower Upper
168 100
99 62.2 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 20.107 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 85 Resp: 54666
Ion Ratio Lower Upper
85 100
87 32.5 16.7 50.1

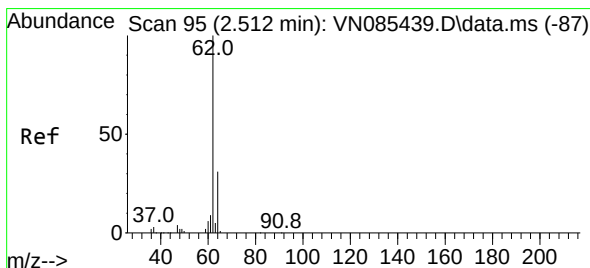
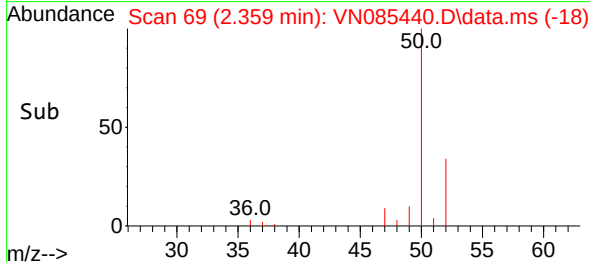
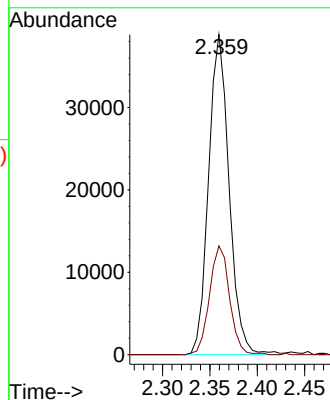
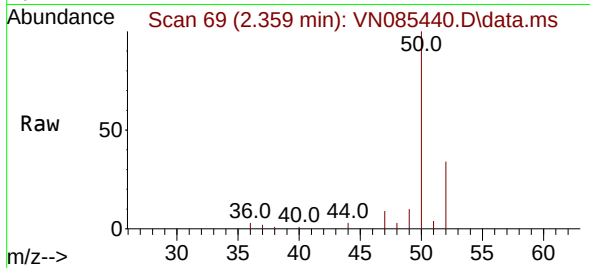




#3
Chloromethane
Concen: 19.848 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

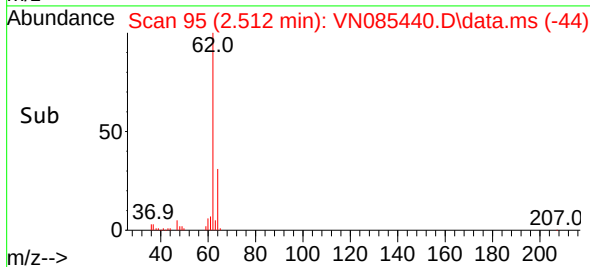
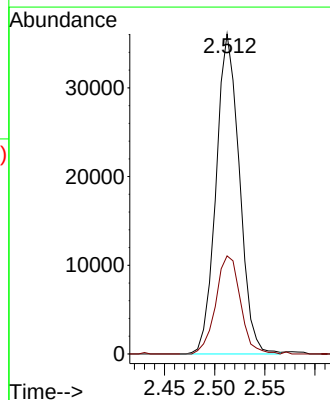
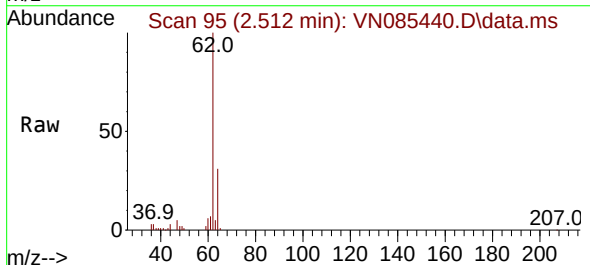
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

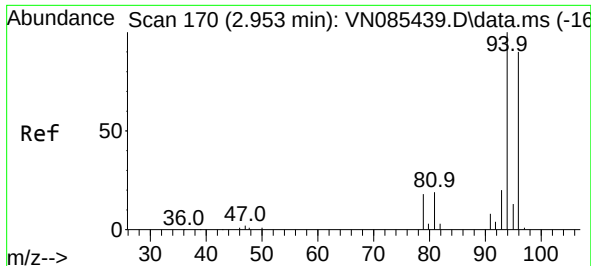
Tgt Ion: 50 Resp: 58426
Ion Ratio Lower Upper
50 100
52 34.0 27.0 40.6



#4
Vinyl Chloride
Concen: 19.739 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 58403
Ion Ratio Lower Upper
62 100
64 30.7 24.8 37.2

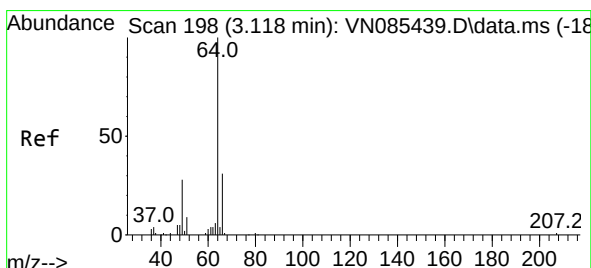
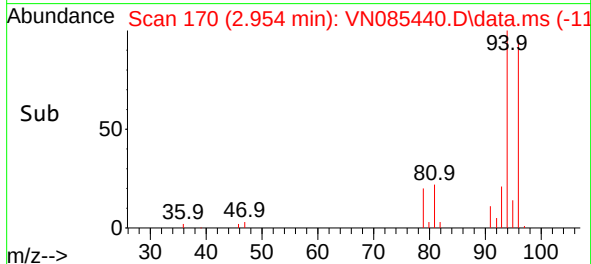
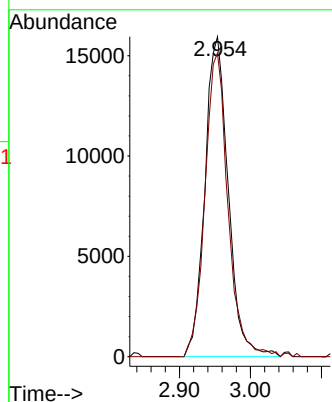
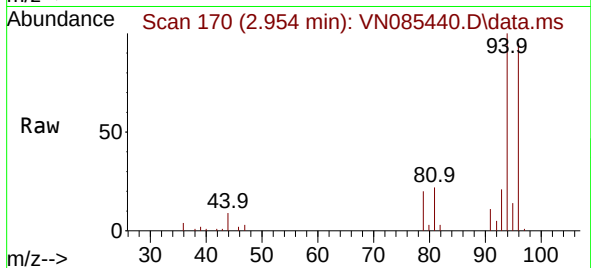




#5
Bromomethane
Concen: 20.389 ug/l
RT: 2.954 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

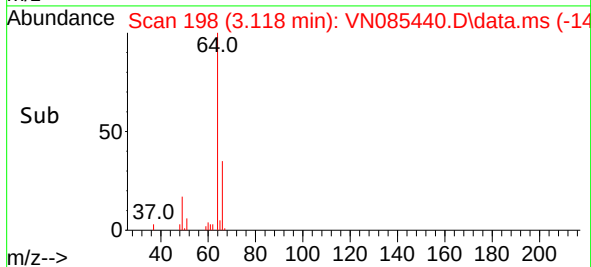
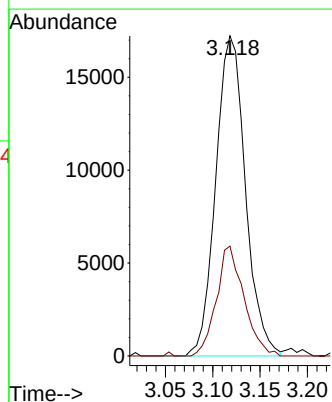
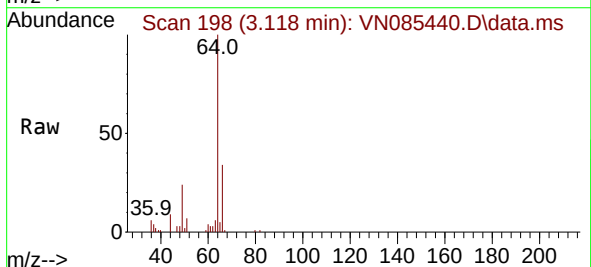
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

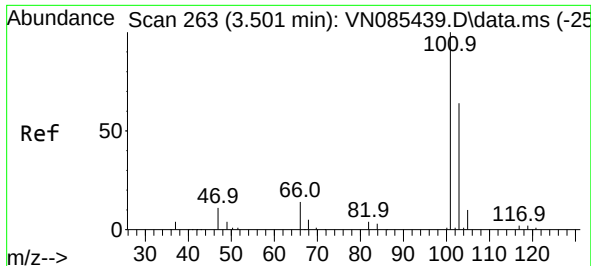
Tgt Ion: 94 Resp: 36440
Ion Ratio Lower Upper
94 100
96 94.9 71.8 107.6



#6
Chloroethane
Concen: 20.041 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 64 Resp: 37594
Ion Ratio Lower Upper
64 100
66 34.3 24.6 36.8

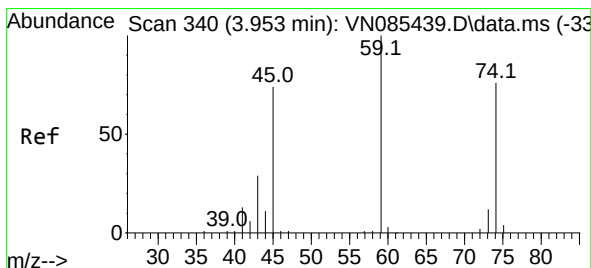
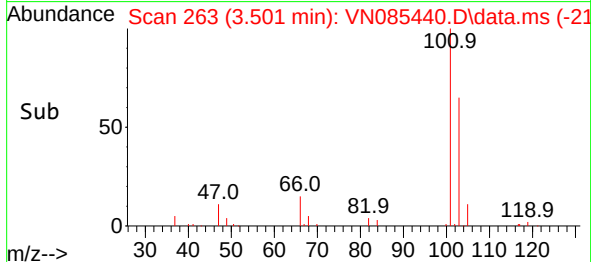
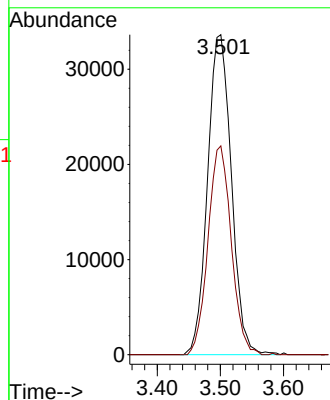
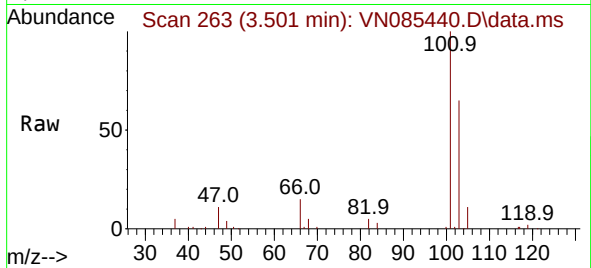




#7
 Trichlorofluoromethane
 Concen: 20.526 ug/l
 RT: 3.501 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

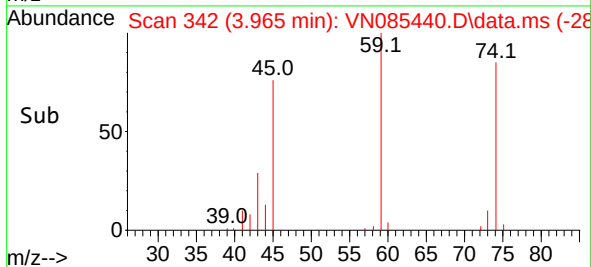
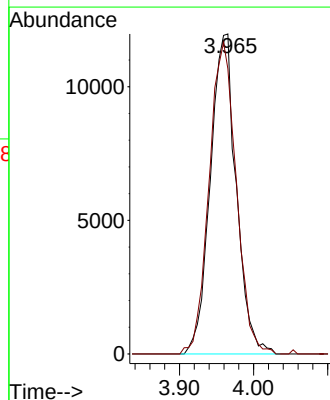
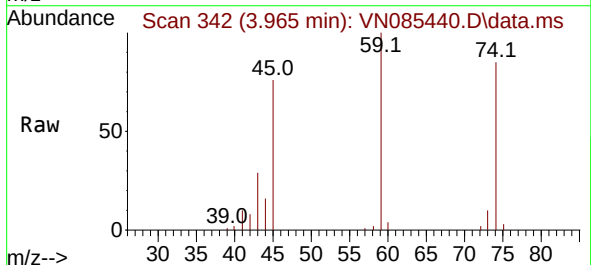
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

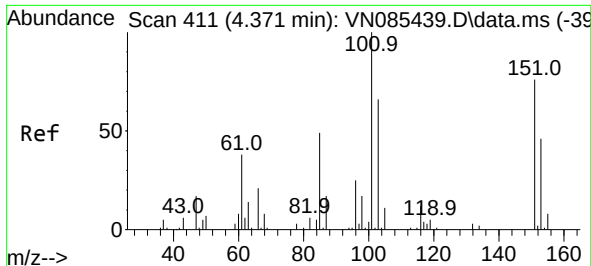
Tgt Ion:101 Resp: 88121
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.4 77.2



#8
 Diethyl Ether
 Concen: 19.647 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.012 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion: 74 Resp: 29138
 Ion Ratio Lower Upper
 74 100
 45 101.8 49.7 149.1

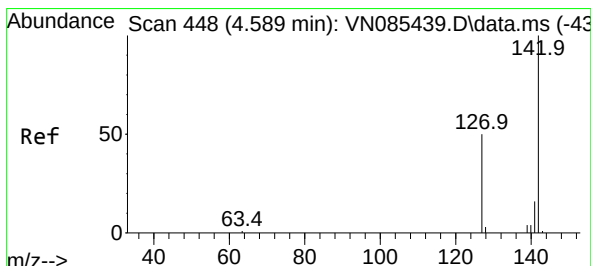
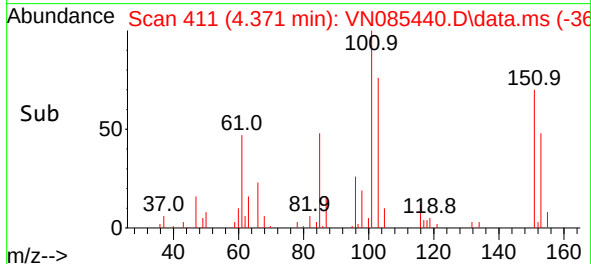
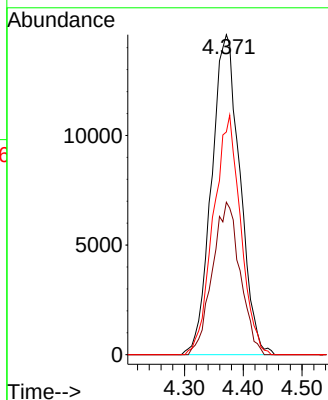
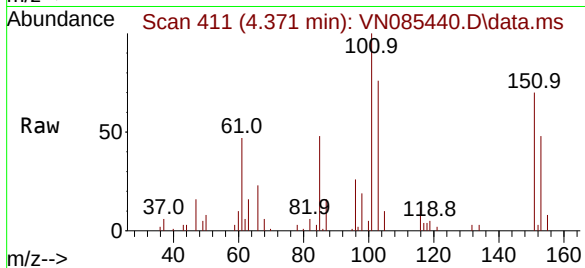




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.237 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

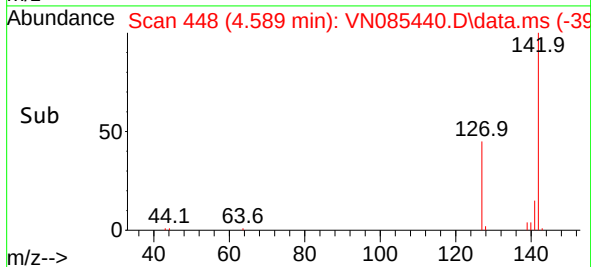
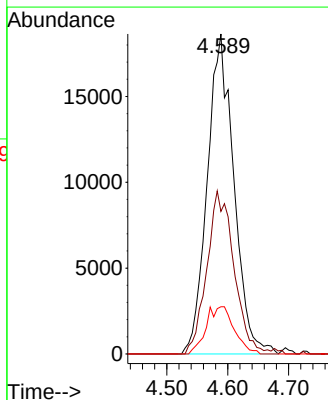
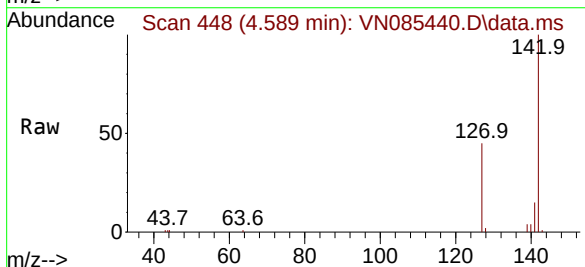
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

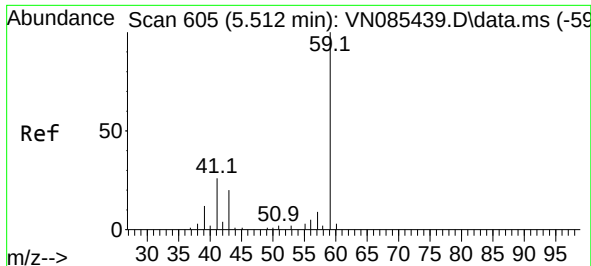
Tgt Ion:101 Resp: 48933
Ion Ratio Lower Upper
101 100
85 46.6 37.8 56.8
151 72.1 58.8 88.2



#10
Methyl Iodide
Concen: 20.428 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:142 Resp: 56567
Ion Ratio Lower Upper
142 100
127 44.6 40.3 60.5
141 14.8 12.8 19.2

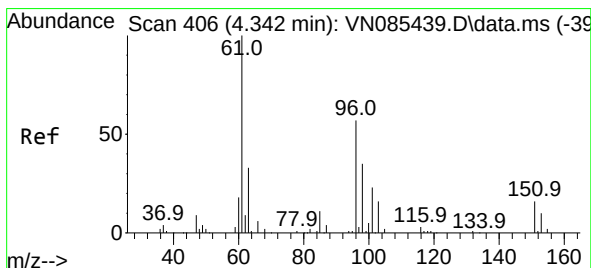
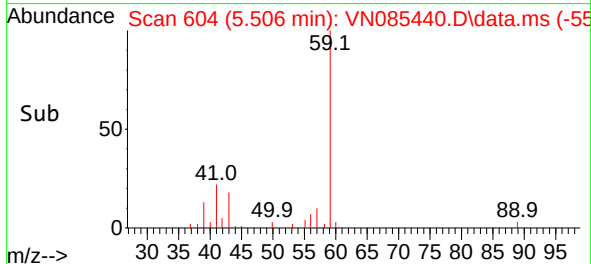
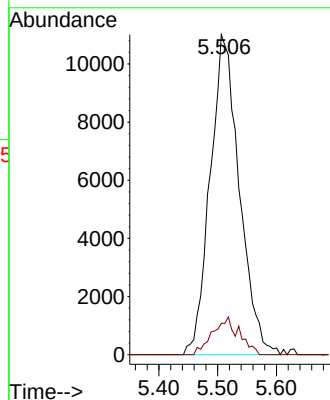
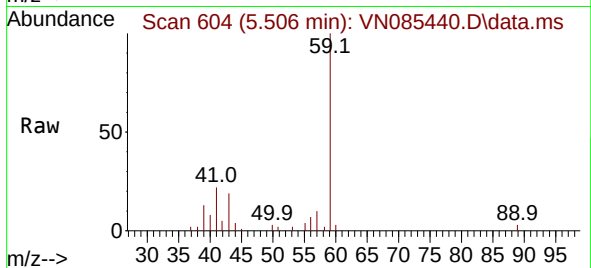




#11
Tert butyl alcohol
Concen: 102.342 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

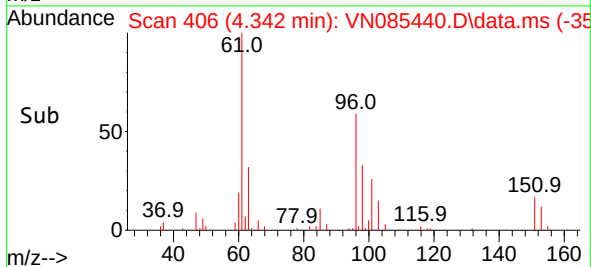
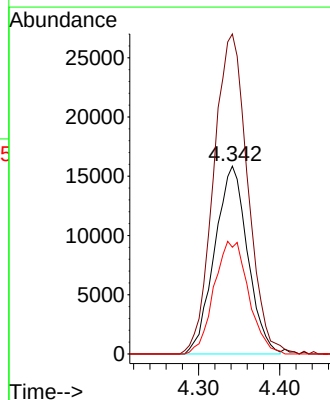
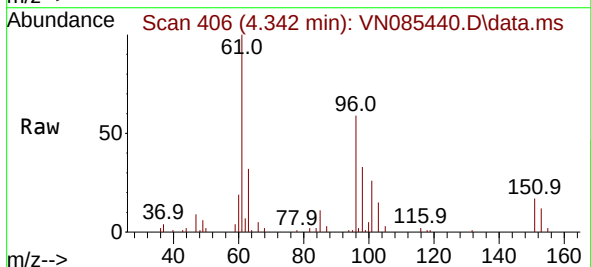
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

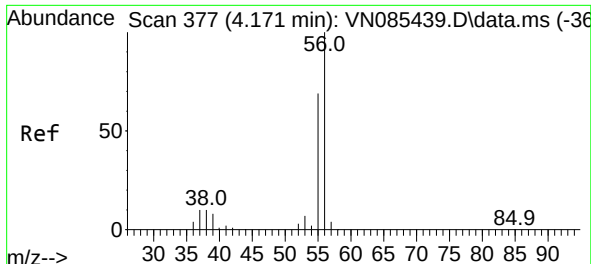
Tgt Ion: 59 Resp: 37984
Ion Ratio Lower Upper
59 100
57 10.7 8.6 13.0



#12
1,1-Dichloroethene
Concen: 20.728 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 96 Resp: 44670
Ion Ratio Lower Upper
96 100
61 170.3 141.0 211.4
98 56.8 49.0 73.6

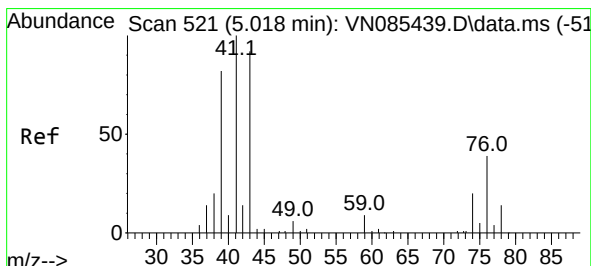
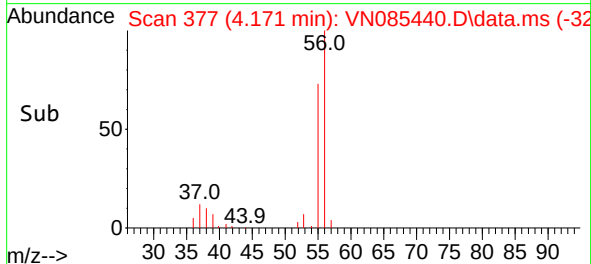
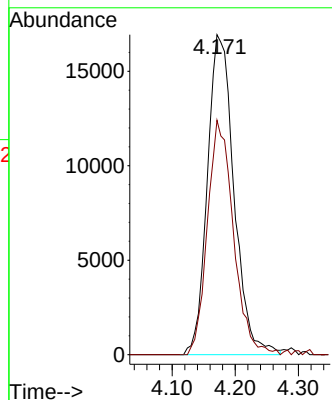
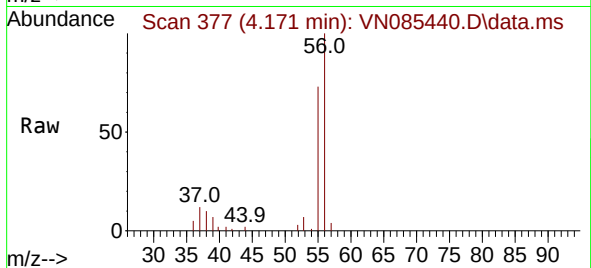




#13
Acrolein
Concen: 97.995 ug/l
RT: 4.171 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

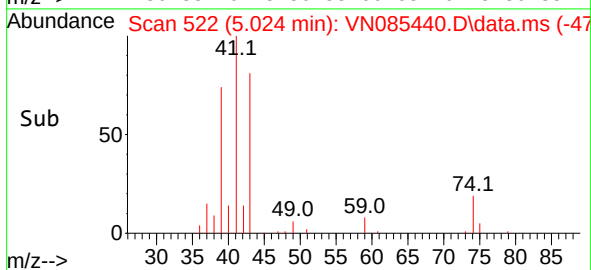
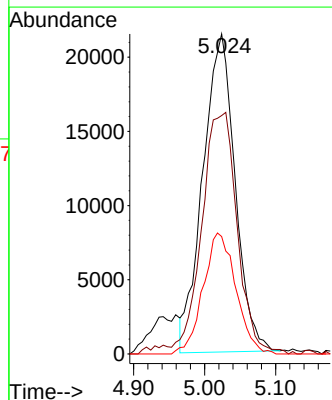
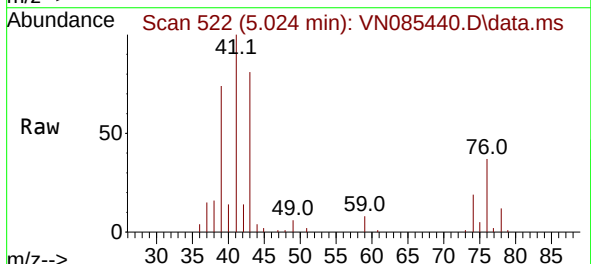
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

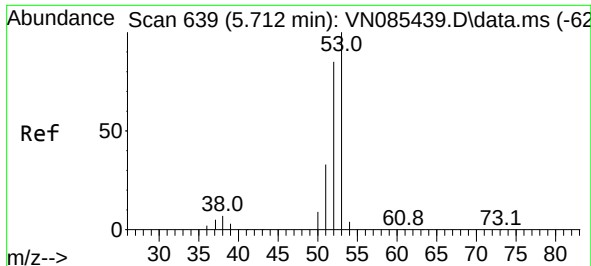
Tgt Ion: 56 Resp: 49649
Ion Ratio Lower Upper
56 100
55 71.4 56.3 84.5



#14
Allyl chloride
Concen: 19.362 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 67705
Ion Ratio Lower Upper
41 100
39 85.0 64.4 96.6
76 38.6 30.5 45.7

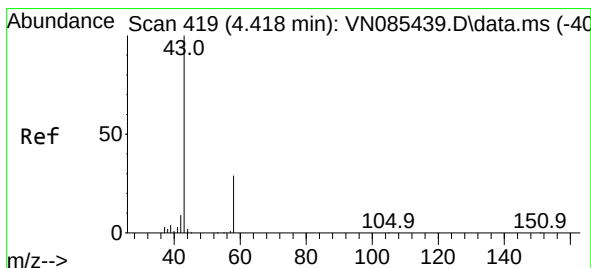
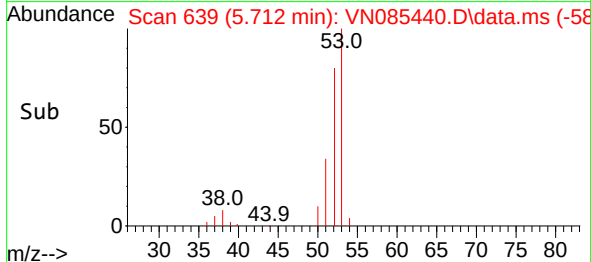
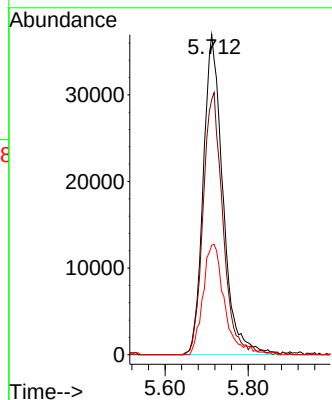
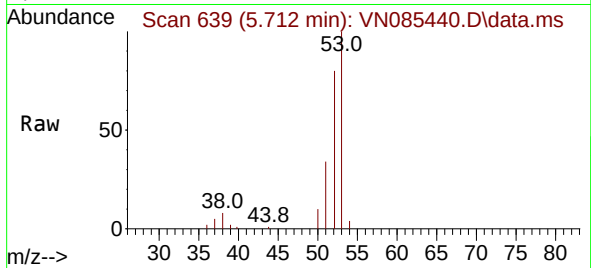




#15
Acrylonitrile
Concen: 103.171 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

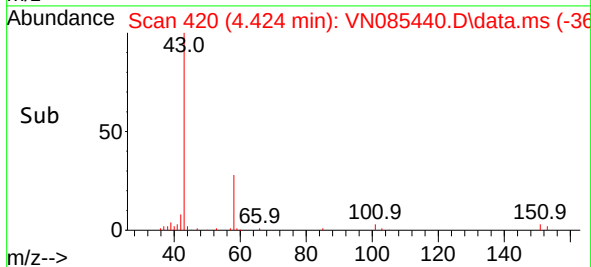
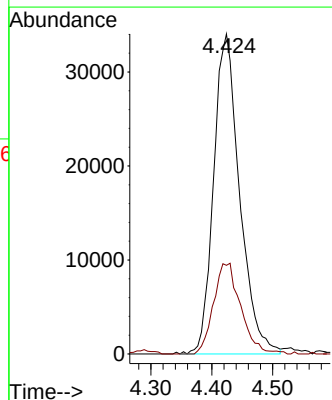
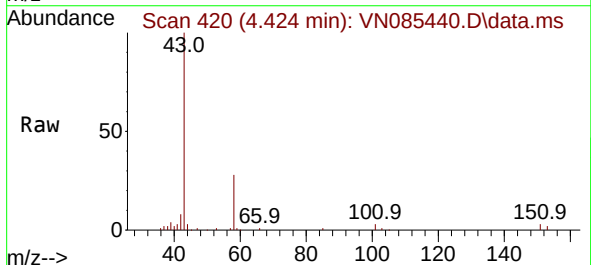
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

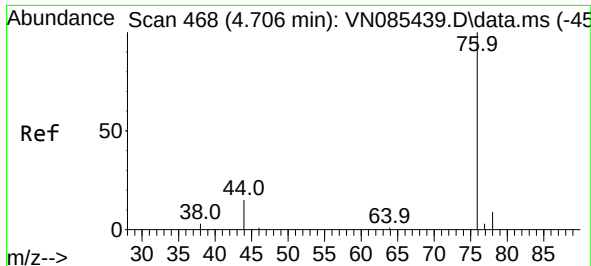
Tgt Ion: 53 Resp: 121626
Ion Ratio Lower Upper
53 100
52 81.1 65.5 98.3
51 36.1 29.8 44.8



#16
Acetone
Concen: 96.502 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 101065
Ion Ratio Lower Upper
43 100
58 27.7 23.8 35.6

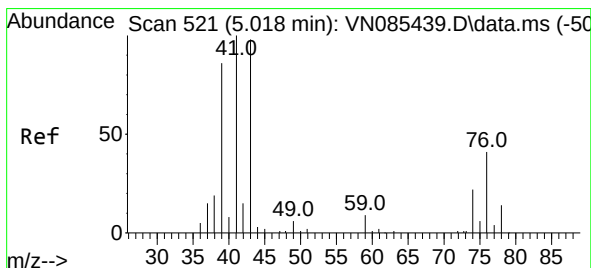
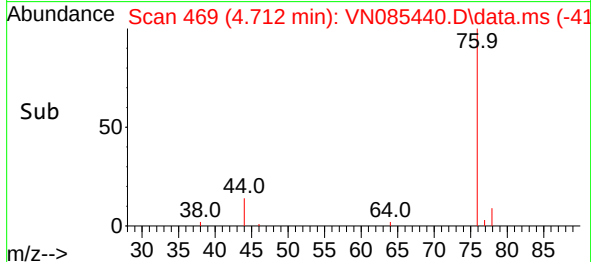
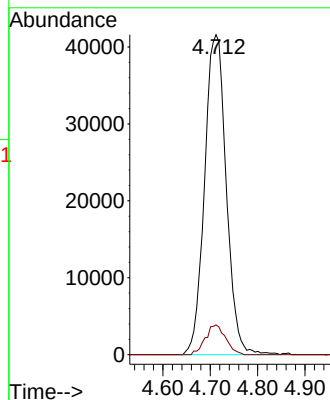
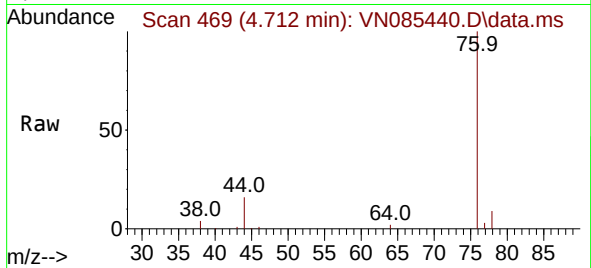




#17
Carbon Disulfide
Concen: 19.939 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

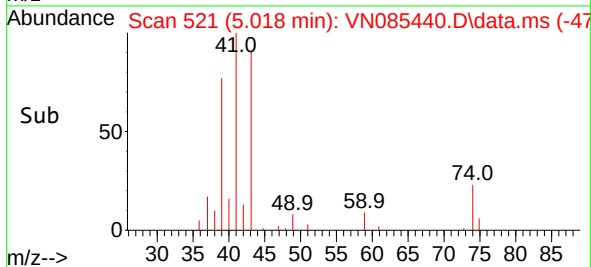
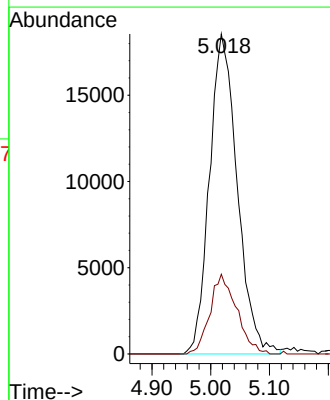
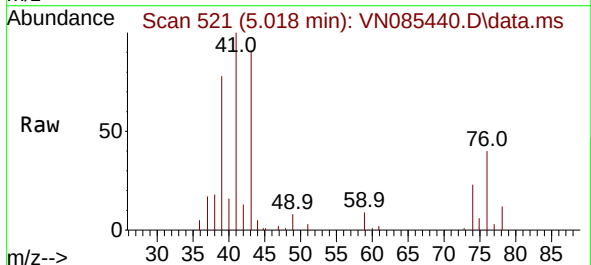
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

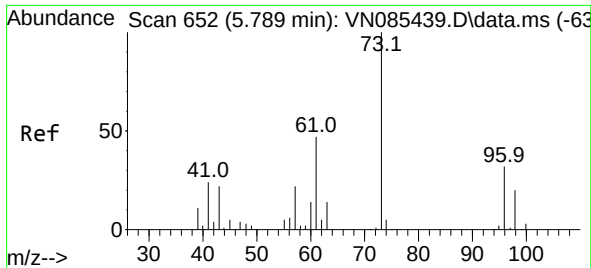
Tgt Ion: 76 Resp: 132300
Ion Ratio Lower Upper
76 100
78 9.3 6.9 10.3



#18
Methyl Acetate
Concen: 19.115 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 60873
Ion Ratio Lower Upper
43 100
74 24.0 18.6 28.0

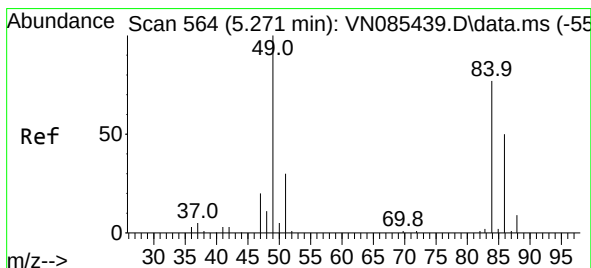
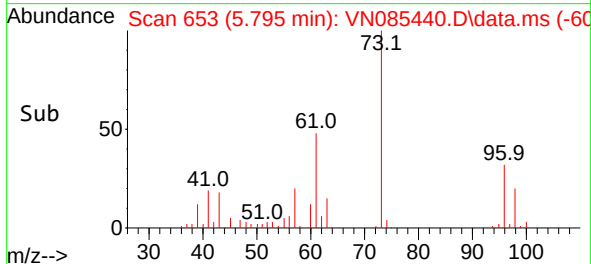
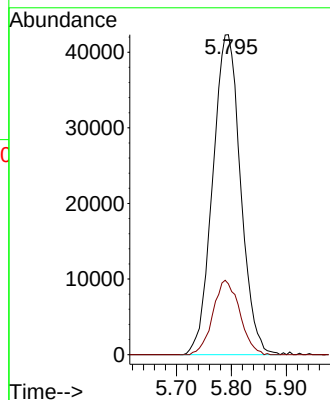
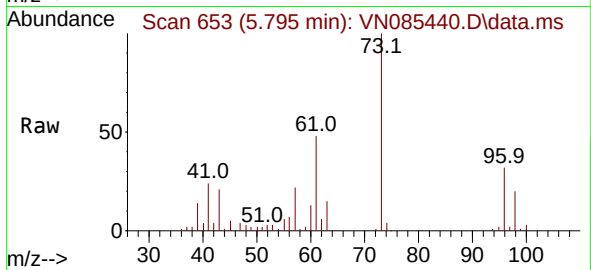




#19
Methyl tert-butyl Ether
Concen: 21.272 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

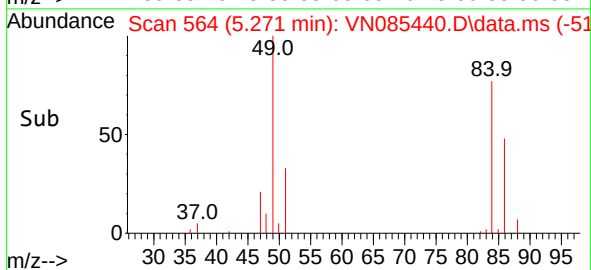
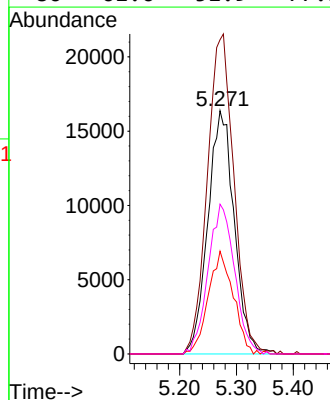
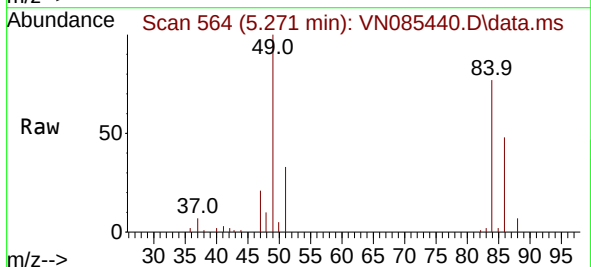
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

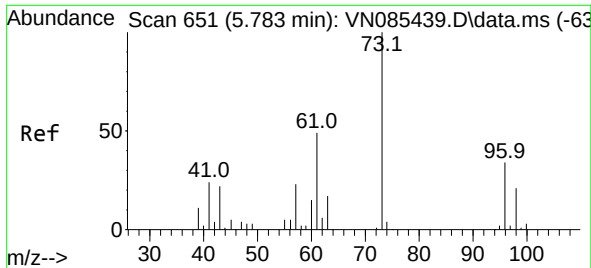
Tgt Ion: 73 Resp: 148847
Ion Ratio Lower Upper
73 100
57 22.1 17.8 26.8



#20
Methylene Chloride
Concen: 20.370 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 84 Resp: 52813
Ion Ratio Lower Upper
84 100
49 129.2 104.1 156.1
51 42.2 31.0 46.4
86 61.6 51.9 77.9

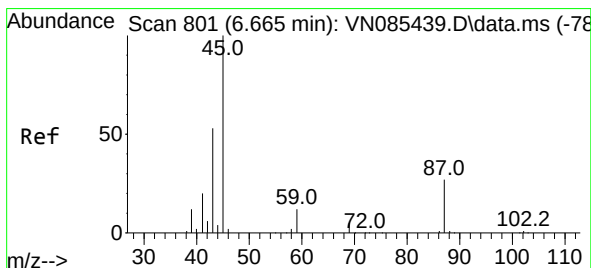
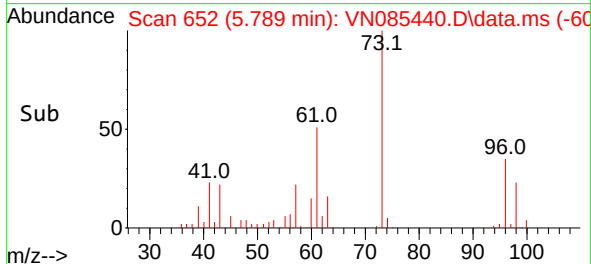
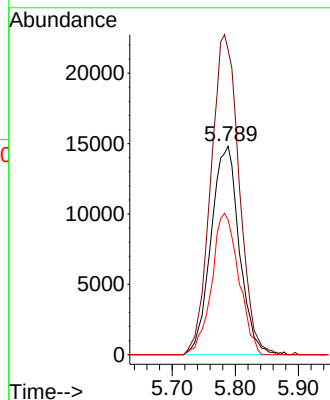
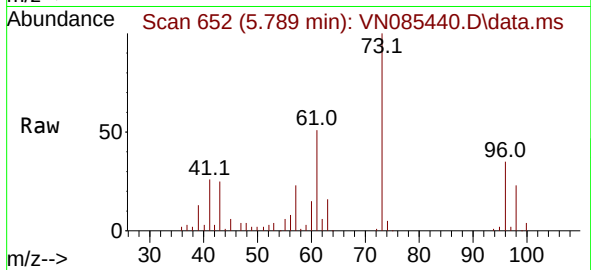




#21
trans-1,2-Dichloroethene
Concen: 20.023 ug/l
RT: 5.789 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

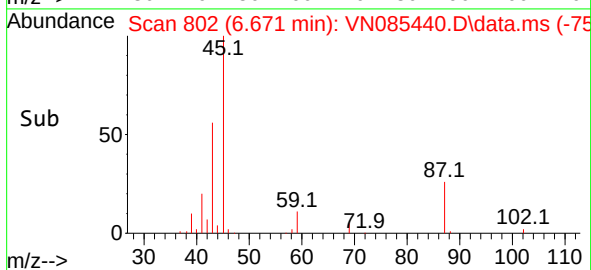
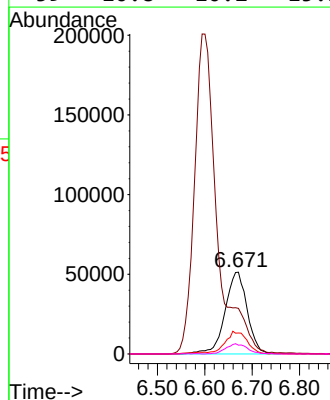
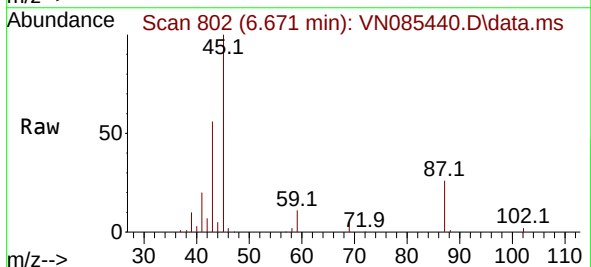
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

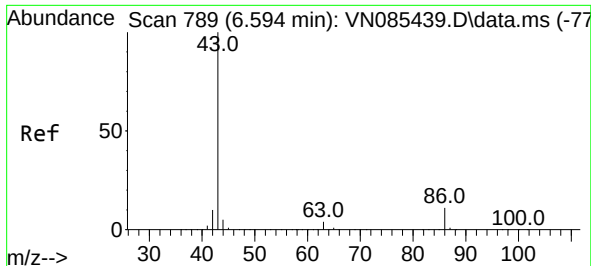
Tgt Ion: 96 Resp: 46115
Ion Ratio Lower Upper
96 100
61 146.1 115.7 173.5
98 64.5 49.8 74.8



#22
Diisopropyl ether
Concen: 21.480 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 45 Resp: 166719
Ion Ratio Lower Upper
45 100
43 54.3 45.0 67.6
87 25.3 21.8 32.8
59 10.8 10.2 15.2

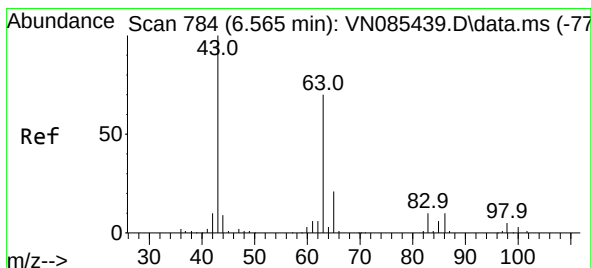
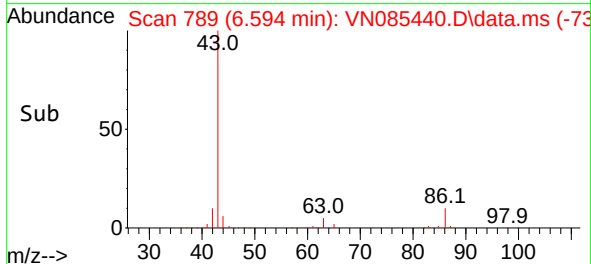
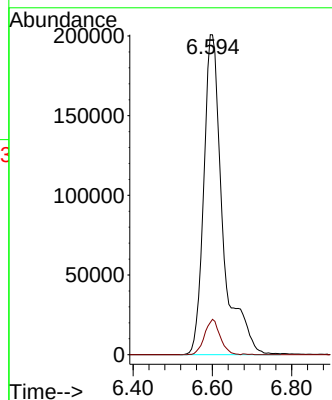
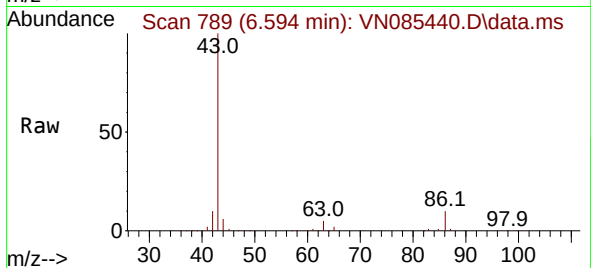




#23
 Vinyl Acetate
 Concen: 122.364 ug/l
 RT: 6.594 min Scan# 789
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

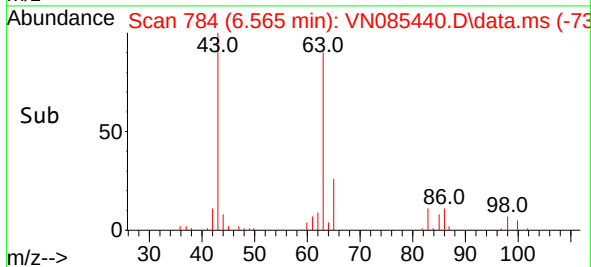
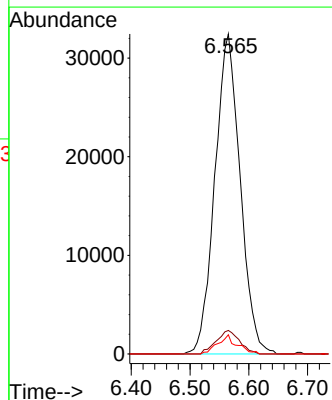
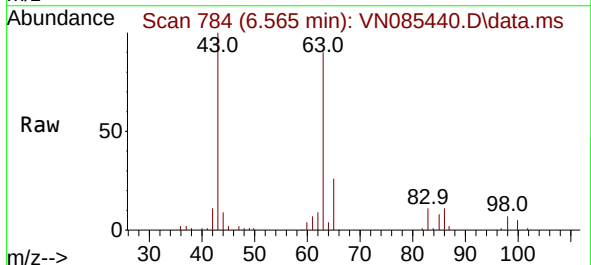
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

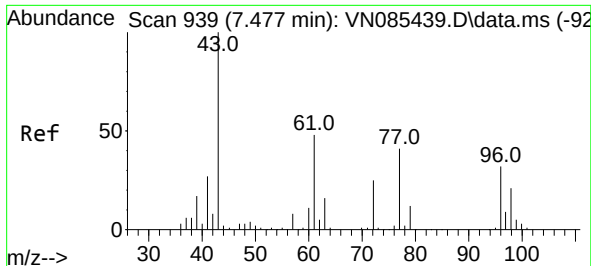
Tgt Ion: 43 Resp: 666942
 Ion Ratio Lower Upper
 43 100
 86 10.1 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 20.469 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion: 63 Resp: 96875
 Ion Ratio Lower Upper
 63 100
 98 7.4 3.3 9.8
 100 6.0 2.0 6.0#

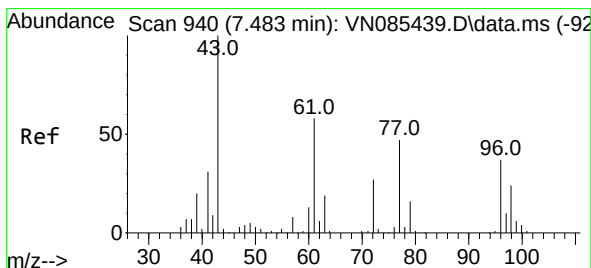
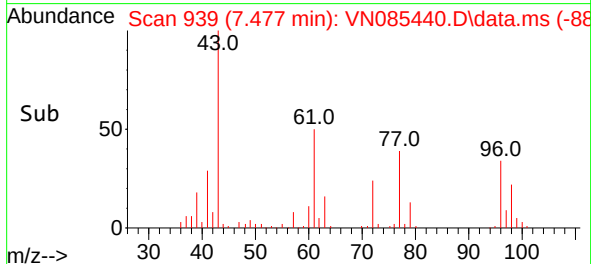
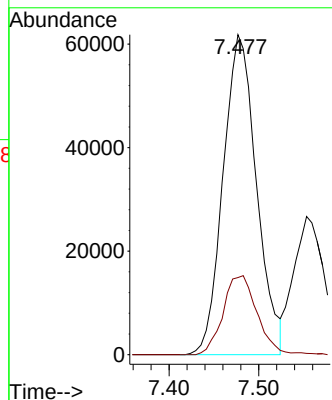
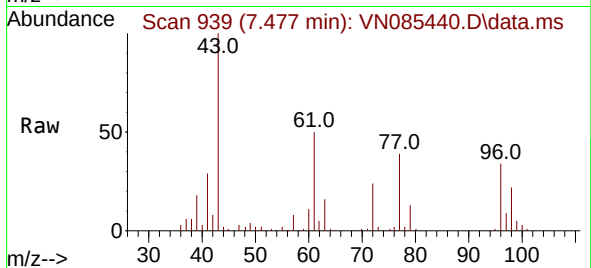




#25
2-Butanone
Concen: 103.786 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

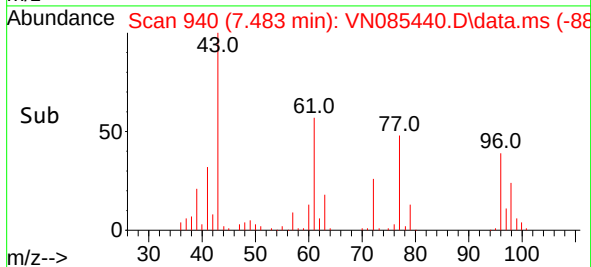
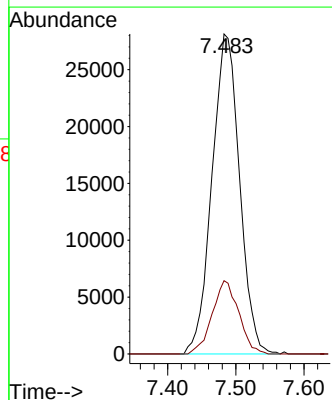
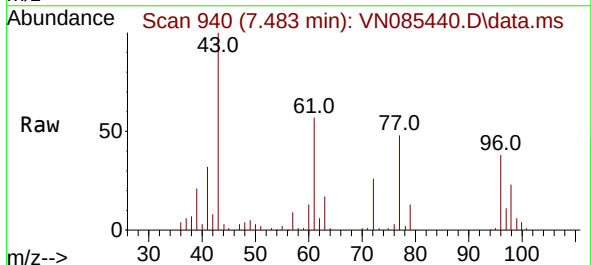
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

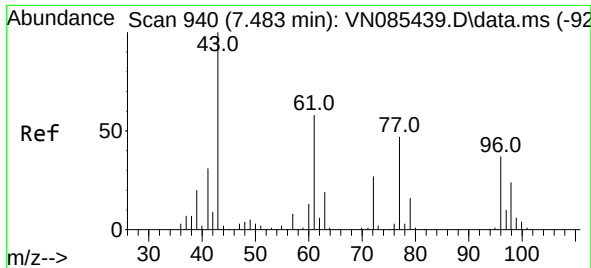
Tgt Ion: 43 Resp: 159952
Ion Ratio Lower Upper
43 100
72 24.1 20.2 30.4



#26
2,2-Dichloropropane
Concen: 20.684 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 77 Resp: 79145
Ion Ratio Lower Upper
77 100
97 22.0 10.7 32.1

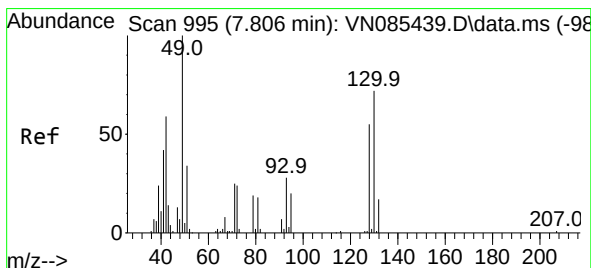
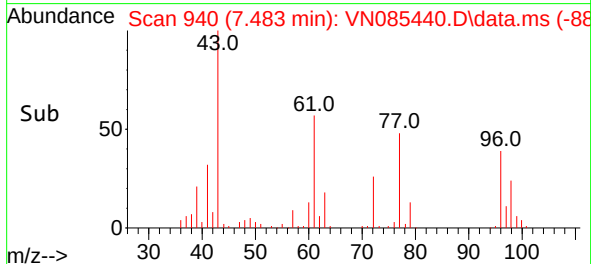
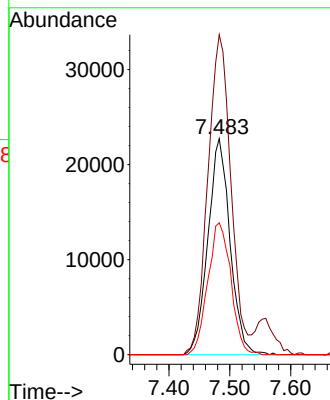
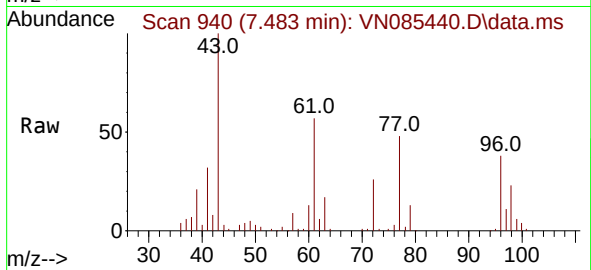




#27
 cis-1,2-Dichloroethene
 Concen: 21.180 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

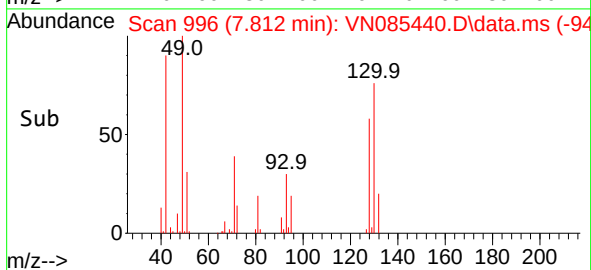
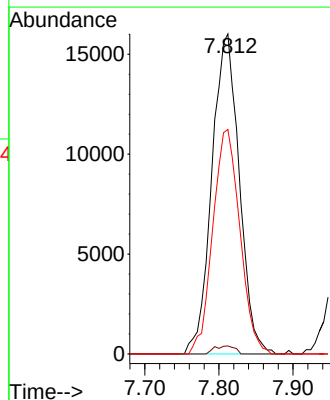
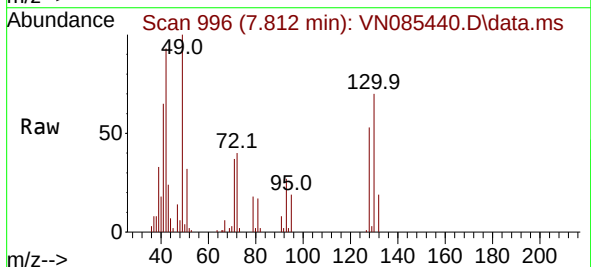
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

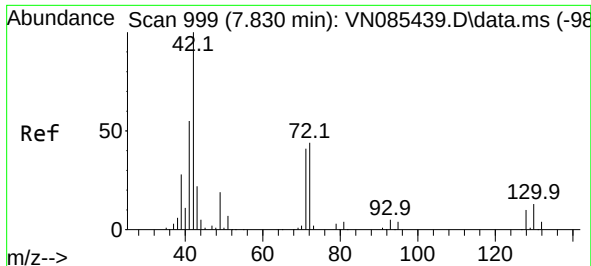
Tgt Ion: 96 Resp: 57454
 Ion Ratio Lower Upper
 96 100
 61 153.0 0.0 311.8
 98 63.7 0.0 126.0



#28
 Bromochloromethane
 Concen: 18.703 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.006 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion: 49 Resp: 41181
 Ion Ratio Lower Upper
 49 100
 129 1.9 0.0 4.4
 130 69.3 55.0 82.4





#29

Tetrahydrofuran

Concen: 107.247 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

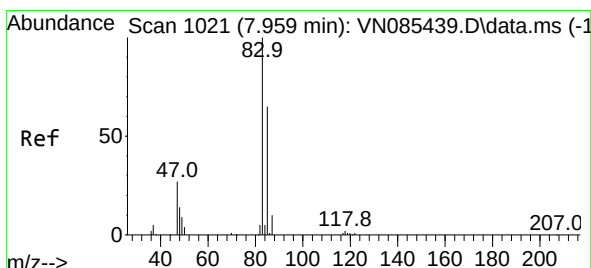
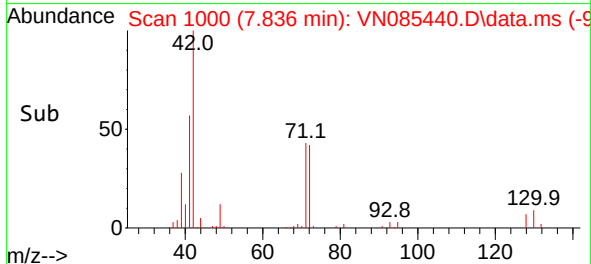
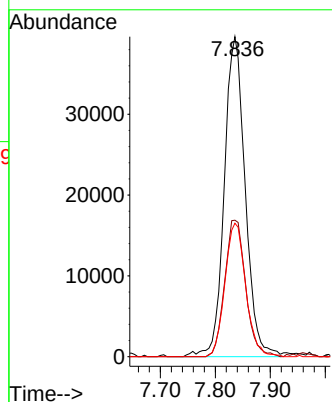
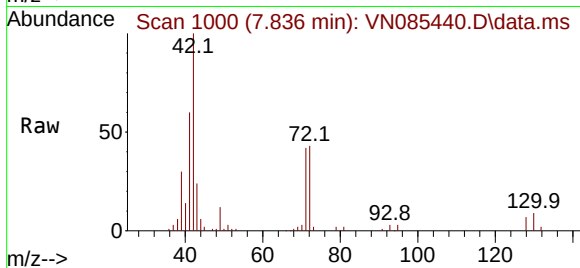
Tgt Ion: 42 Resp: 104792

Ion Ratio Lower Upper

42 100

72 42.6 34.2 51.2

71 41.4 32.5 48.7



#30

Chloroform

Concen: 20.374 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085440.D

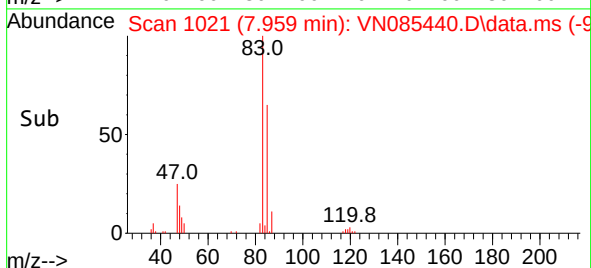
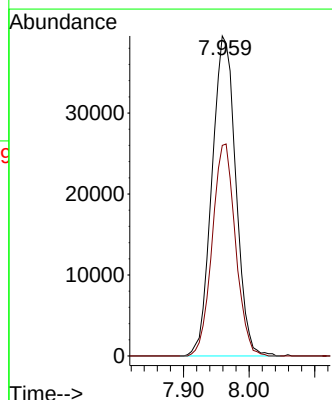
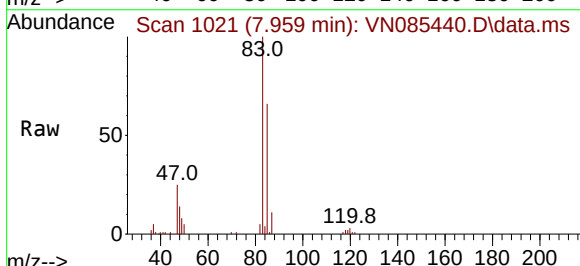
Acq: 14 Jan 2025 15:43

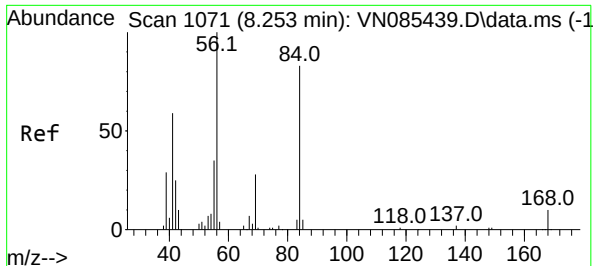
Tgt Ion: 83 Resp: 99655

Ion Ratio Lower Upper

83 100

85 65.8 51.8 77.6

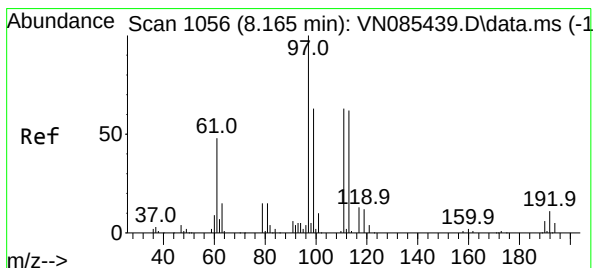
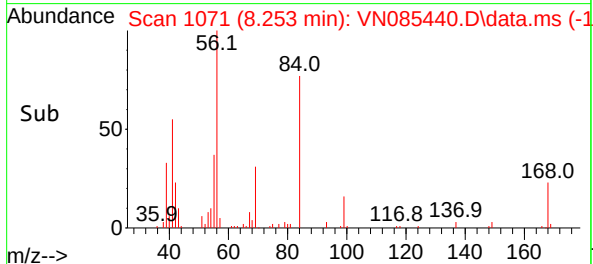
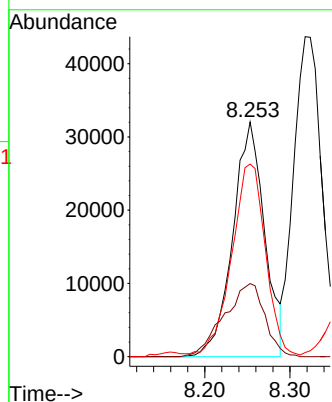
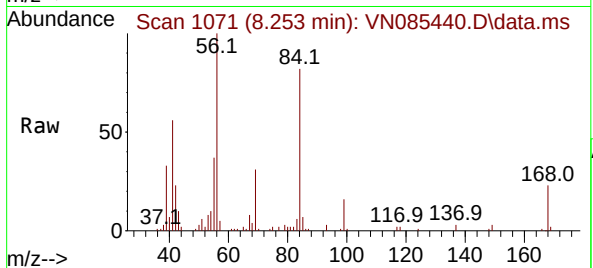




#31
Cyclohexane
Concen: 20.173 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

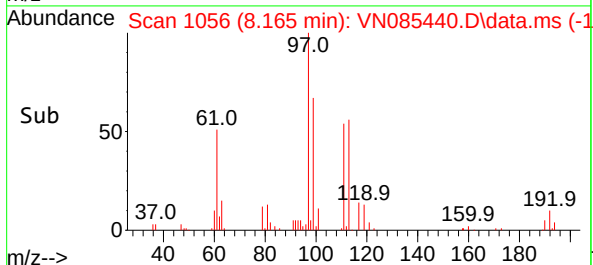
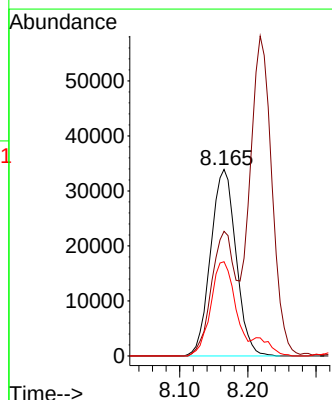
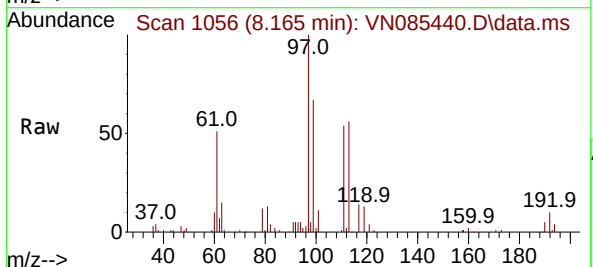
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

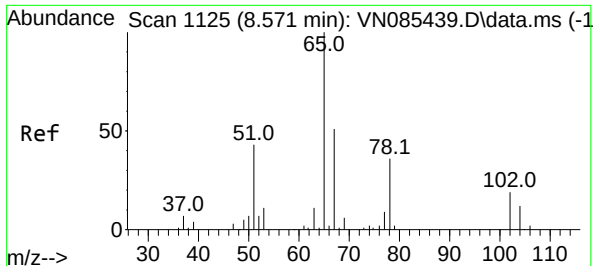
Tgt Ion:	56	Resp:	82980
Ion Ratio	Lower	Upper	
56	100		
69	31.2	22.2	33.4
84	80.8	66.4	99.6



#32
1,1,1-Trichloroethane
Concen: 20.431 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:	97	Resp:	87659
Ion Ratio	Lower	Upper	
97	100		
99	64.2	49.8	74.6
61	50.3	41.4	62.2

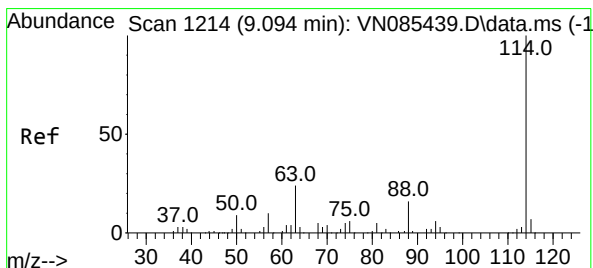
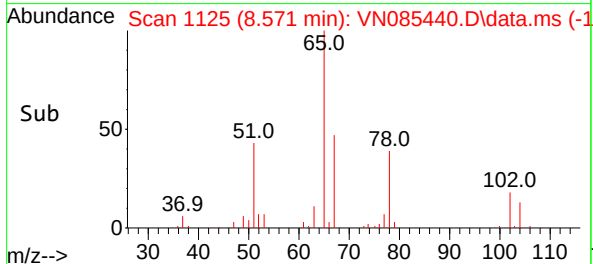
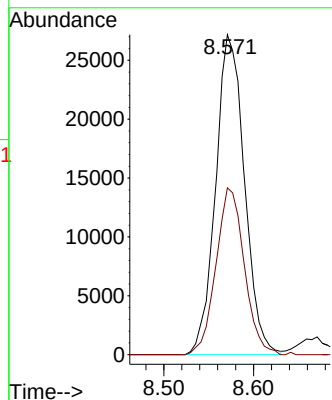
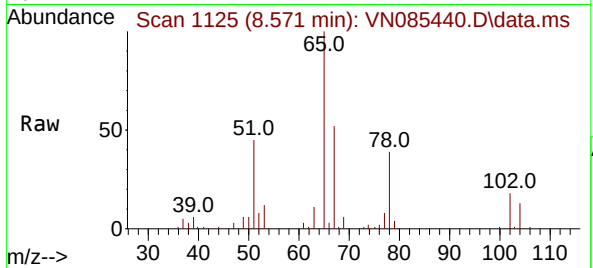




#33
 1,2-Dichloroethane-d4
 Concen: 18.694 ug/l
 RT: 8.571 min Scan# 1125
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

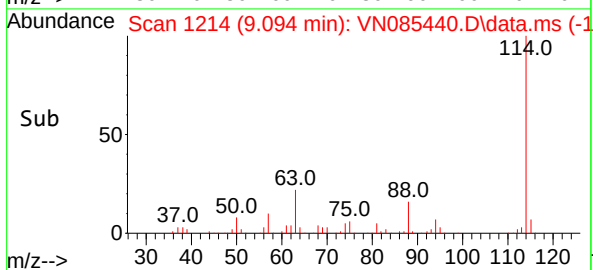
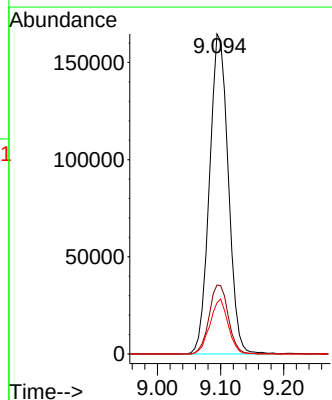
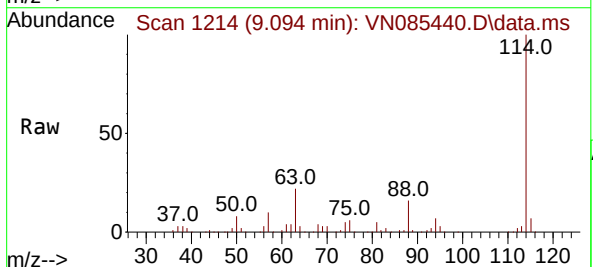
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

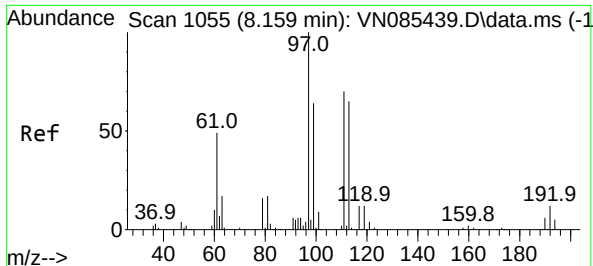
Tgt Ion: 65 Resp: 60593
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.094 min Scan# 1214
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion: 114 Resp: 340593
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 47.6
 88 16.0 0.0 32.6

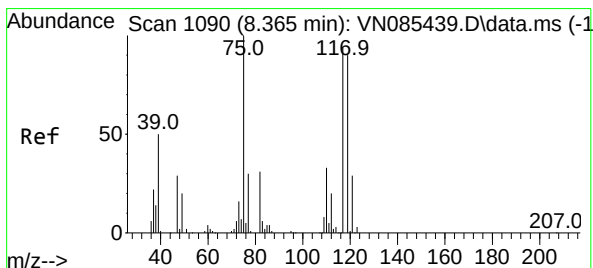
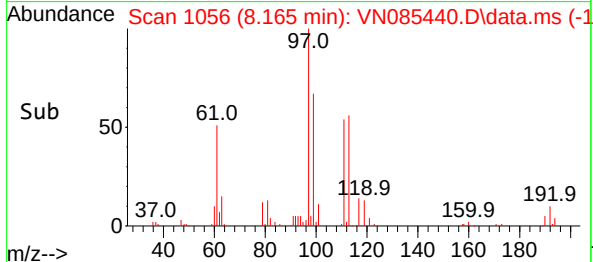
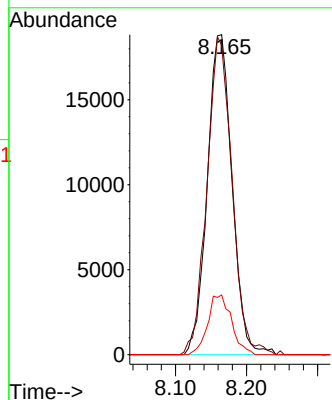
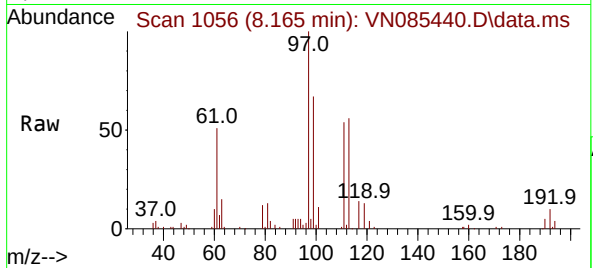




#35
Dibromofluoromethane
Concen: 19.322 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

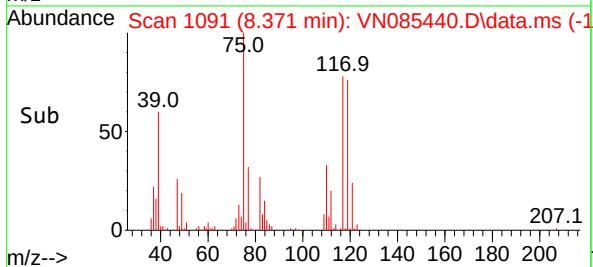
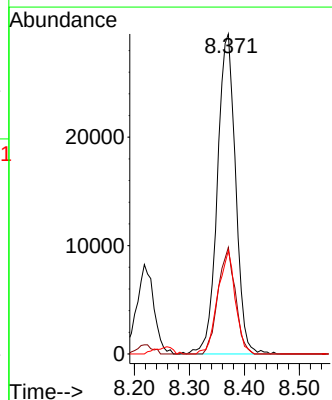
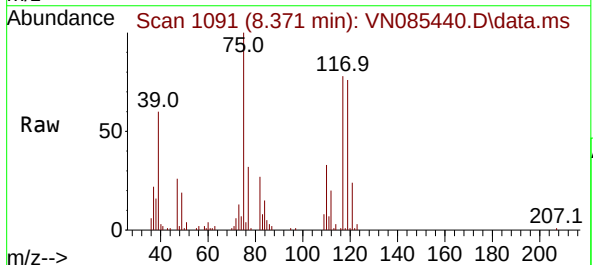
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

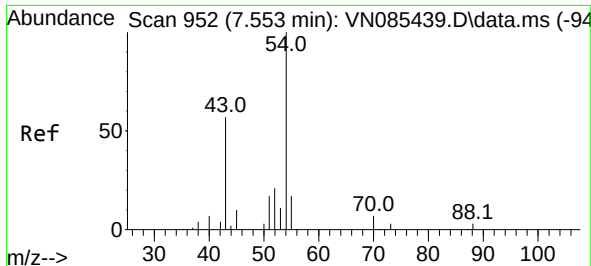
Tgt Ion:113 Resp: 45655
Ion Ratio Lower Upper
113 100
111 100.6 82.7 124.1
192 17.9 14.3 21.5



#36
1,1-Dichloropropene
Concen: 20.490 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 67949
Ion Ratio Lower Upper
75 100
110 31.8 16.5 49.5
77 31.1 24.4 36.6





#37

Ethyl Acetate

Concen: 19.850 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

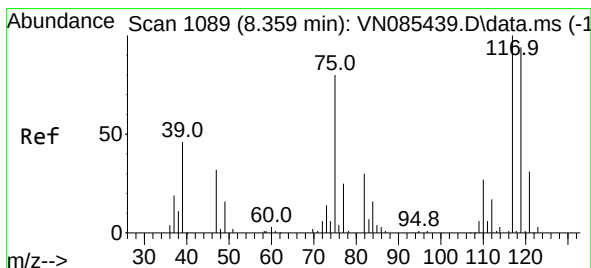
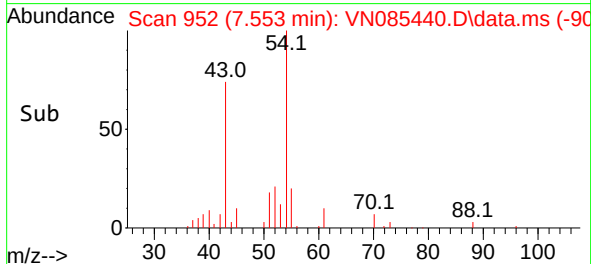
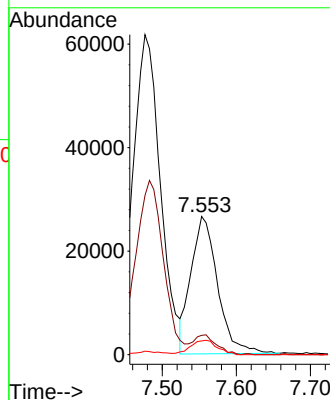
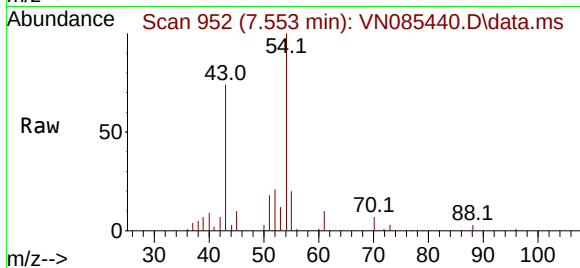
Tgt Ion: 43 Resp: 66443

Ion Ratio Lower Upper

43 100

61 11.9 10.9 16.3

70 10.6 7.5 11.3



#38

Carbon Tetrachloride

Concen: 20.767 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

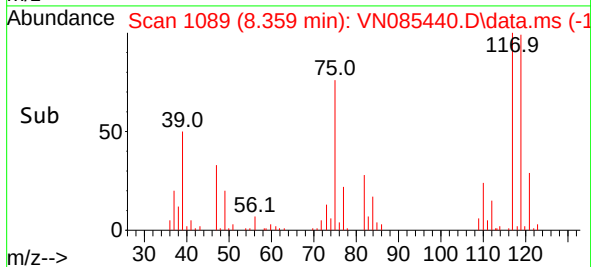
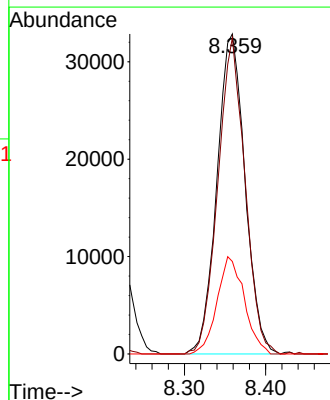
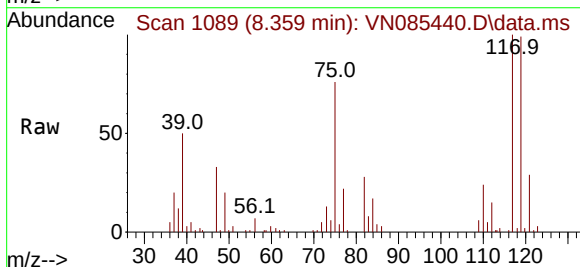
Tgt Ion: 117 Resp: 78842

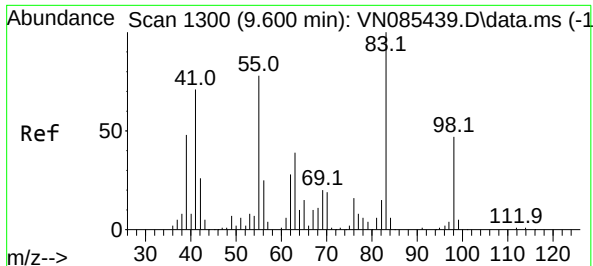
Ion Ratio Lower Upper

117 100

119 98.9 75.4 113.2

121 28.9 24.6 37.0





#39

Methylcyclohexane

Concen: 20.862 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

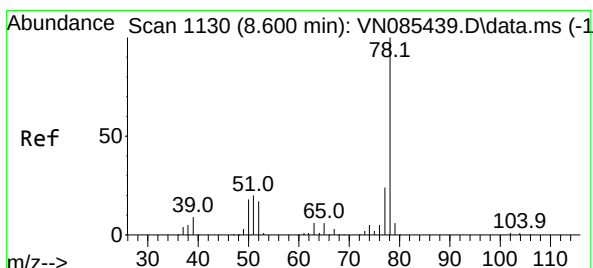
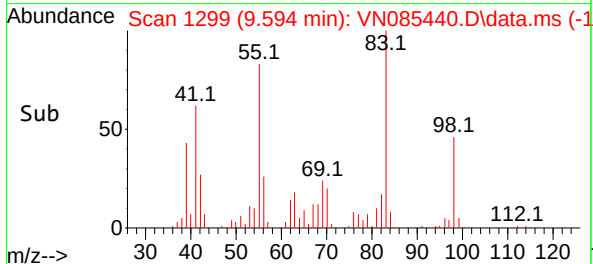
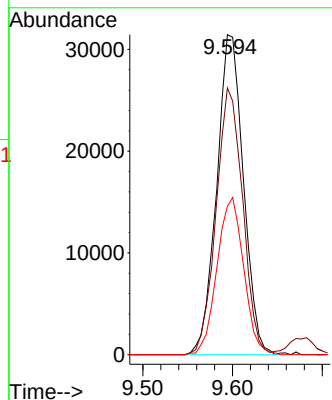
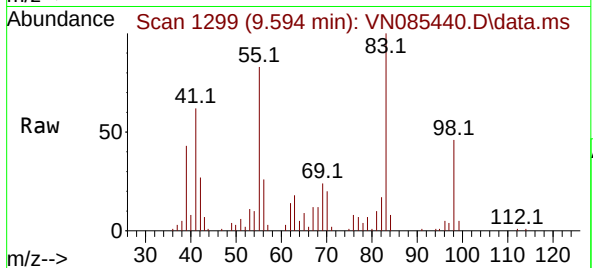
Tgt Ion: 83 Resp: 65012

Ion Ratio Lower Upper

83 100

55 83.4 62.6 94.0

98 46.4 37.7 56.5



#40

Benzene

Concen: 20.873 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085440.D

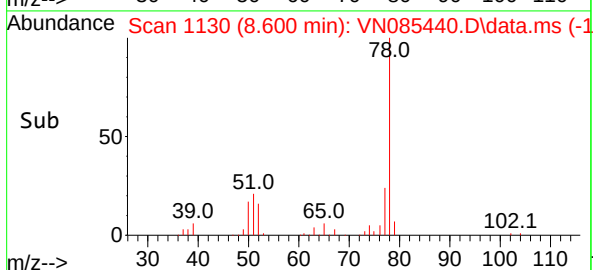
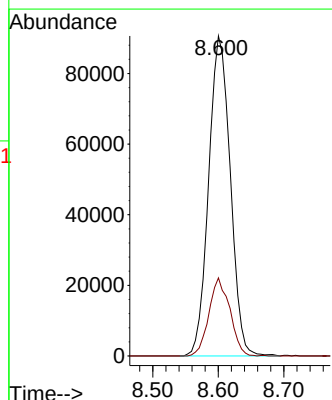
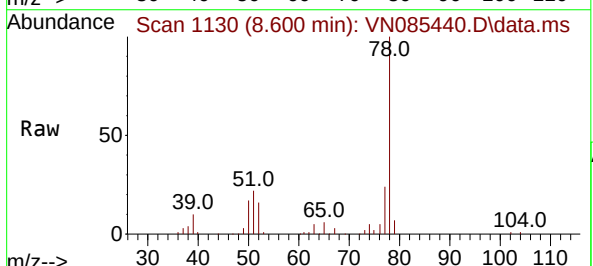
Acq: 14 Jan 2025 15:43

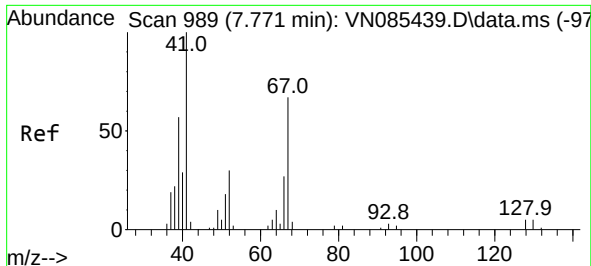
Tgt Ion: 78 Resp: 207985

Ion Ratio Lower Upper

78 100

77 24.4 19.0 28.6



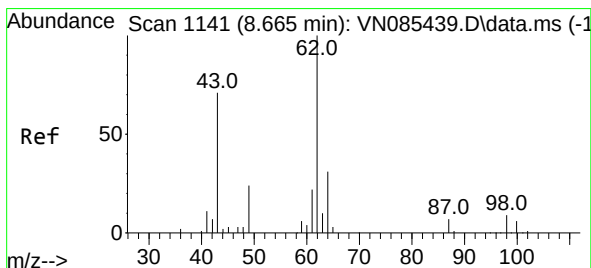
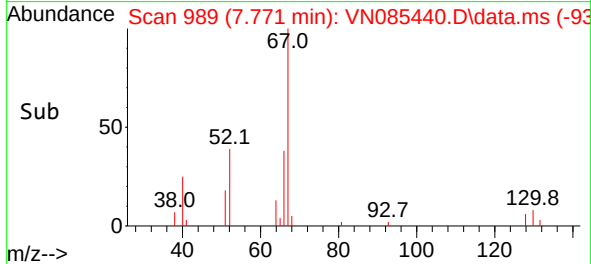
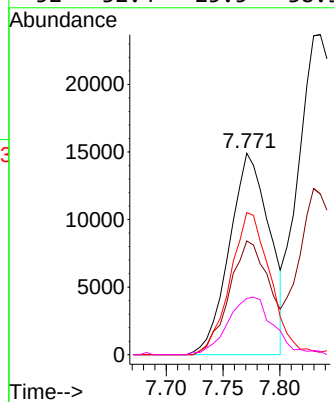
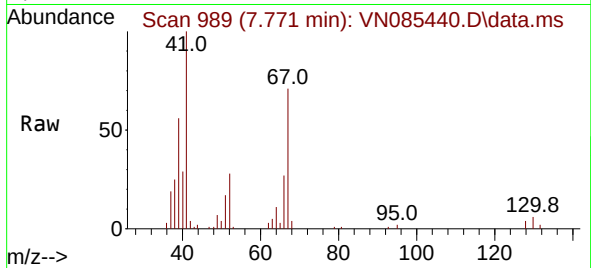


#41
Methacrylonitrile
Concen: 21.004 ug/l
RT: 7.771 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 36578

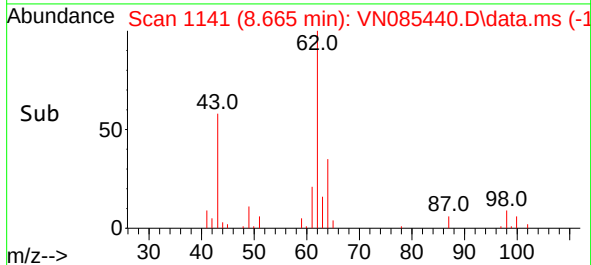
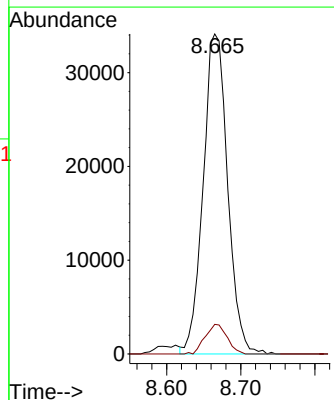
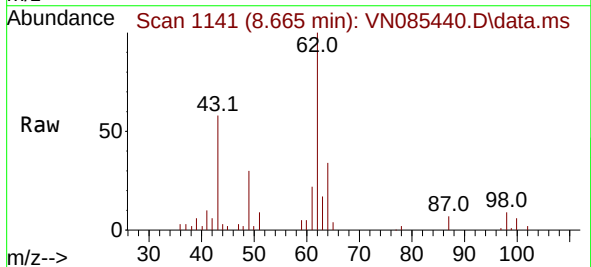
Ion	Ratio	Lower	Upper
41	100		
39	56.6	46.0	69.0
67	70.3	57.4	86.2
52	32.4	25.5	38.3

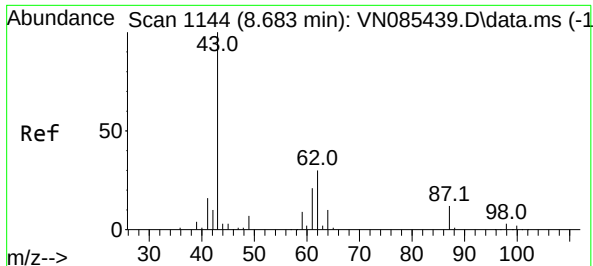


#42
1,2-Dichloroethane
Concen: 20.891 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 62 Resp: 78402

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0

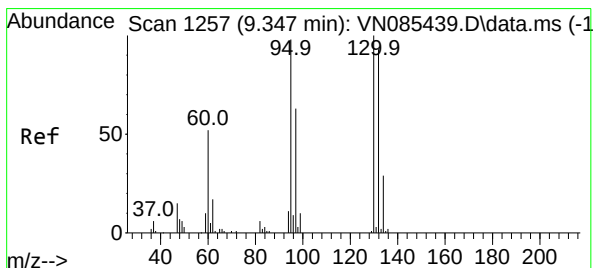
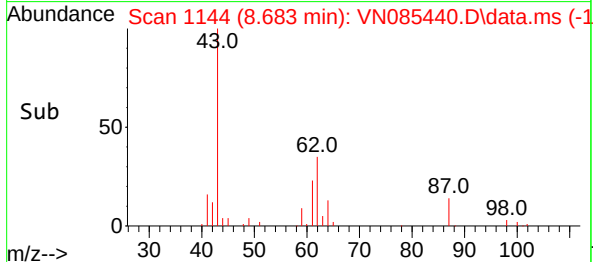
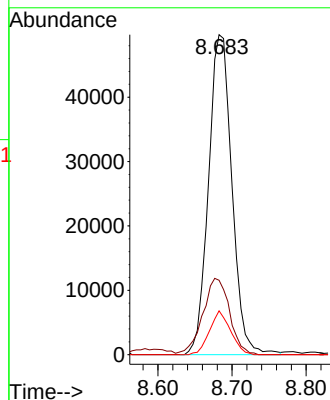
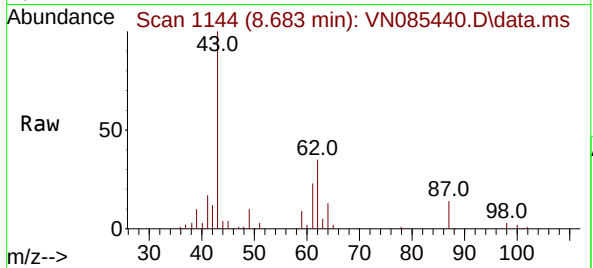




#43
Isopropyl Acetate
Concen: 20.347 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

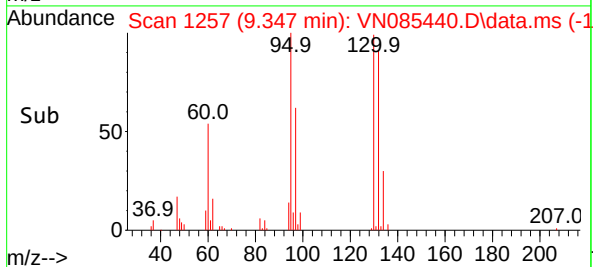
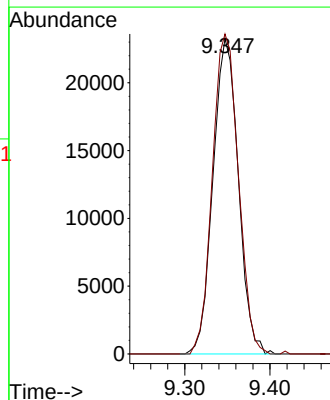
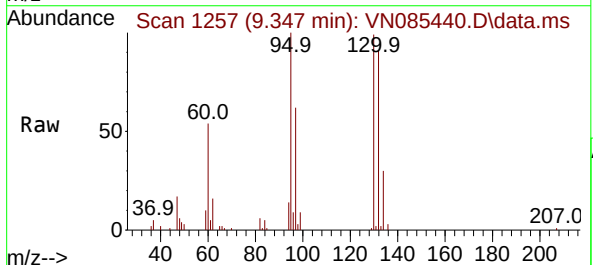
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

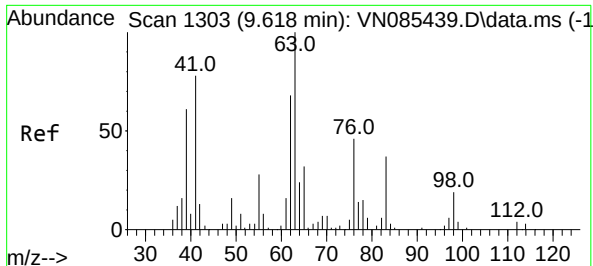
Tgt Ion: 43 Resp: 109131
Ion Ratio Lower Upper
43 100
61 27.2 20.7 31.1
87 12.3 9.8 14.8



#44
Trichloroethene
Concen: 20.699 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:130 Resp: 48009
Ion Ratio Lower Upper
130 100
95 101.5 0.0 195.8





#45

1,2-Dichloropropane

Concen: 20.758 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

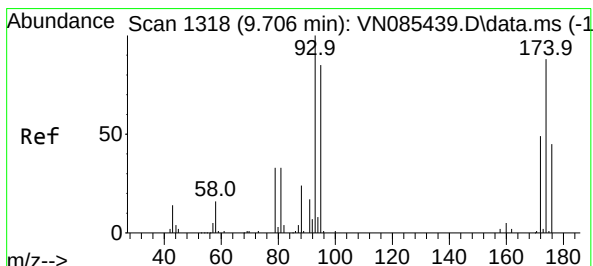
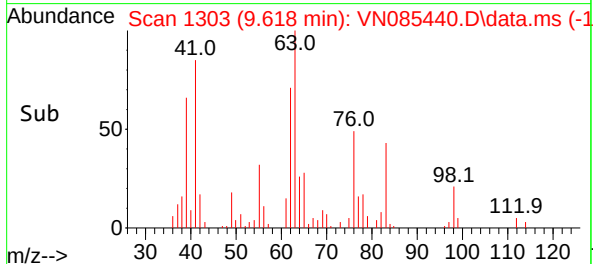
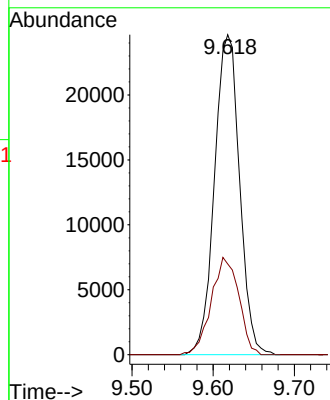
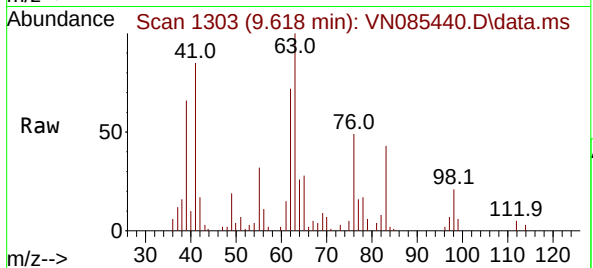
VSTDICC020

Tgt Ion: 63 Resp: 52833

Ion Ratio Lower Upper

63 100

65 28.3 25.6 38.4



#46

Dibromomethane

Concen: 20.540 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

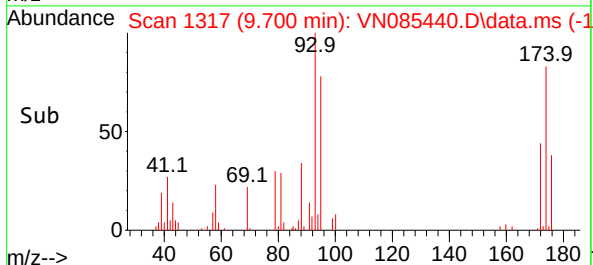
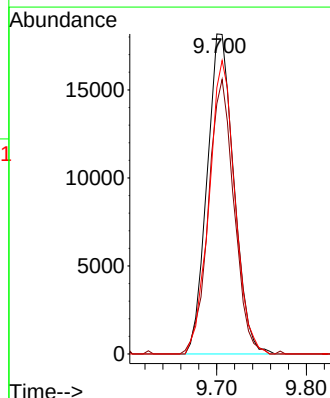
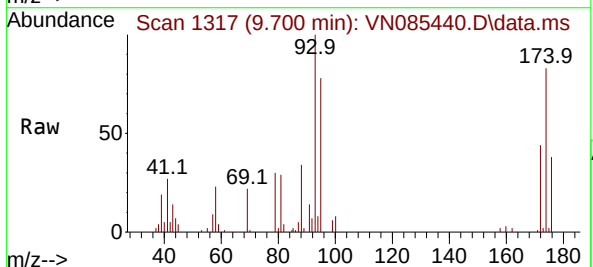
Tgt Ion: 93 Resp: 37721

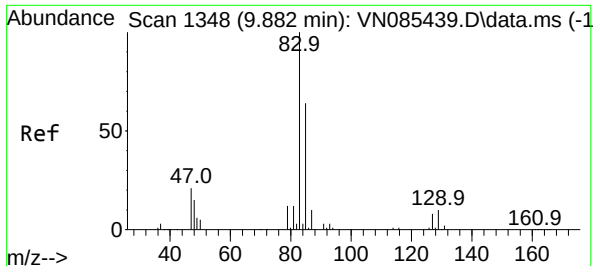
Ion Ratio Lower Upper

93 100

95 82.0 64.7 97.1

174 88.4 69.0 103.4

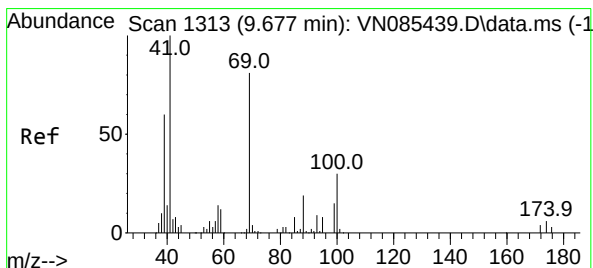
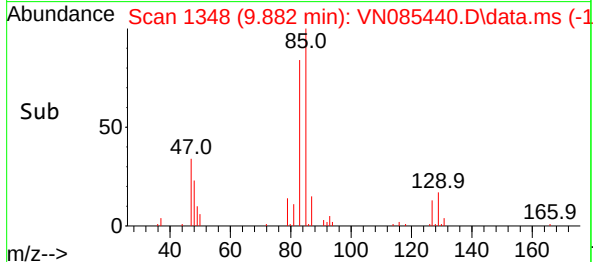
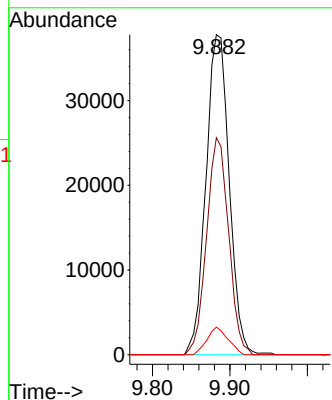
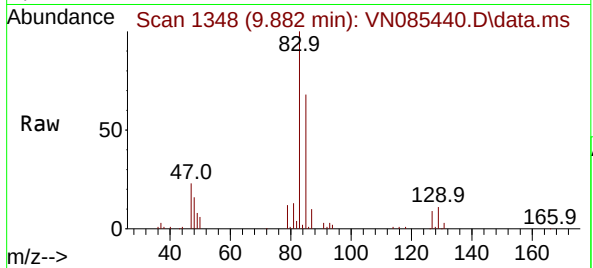




#47
Bromodichloromethane
Concen: 21.093 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

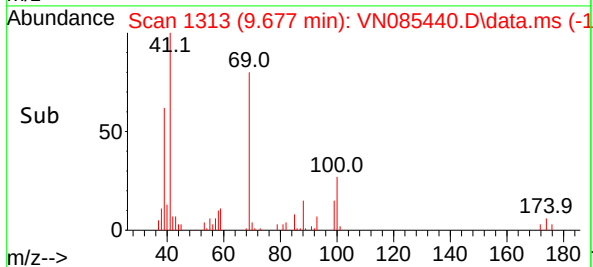
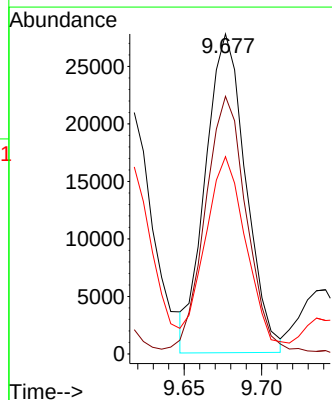
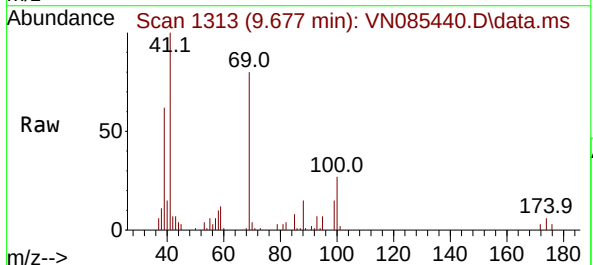
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

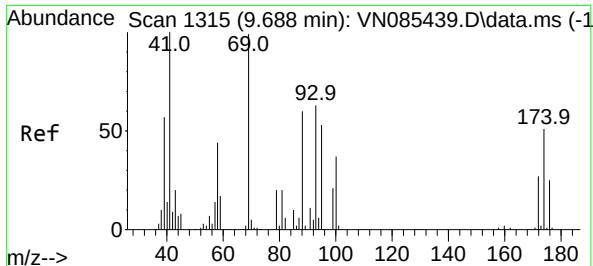
Tgt Ion: 83 Resp: 78918
Ion Ratio Lower Upper
83 100
85 67.8 51.2 76.8
127 8.6 6.5 9.7



#48
Methyl methacrylate
Concen: 20.808 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 41 Resp: 50224
Ion Ratio Lower Upper
41 100
69 84.3 64.7 97.1
39 64.2 49.0 73.6





#49

1,4-Dioxane

Concen: 421.686 ug/l

RT: 9.688 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

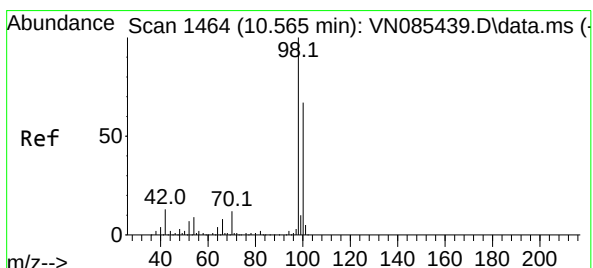
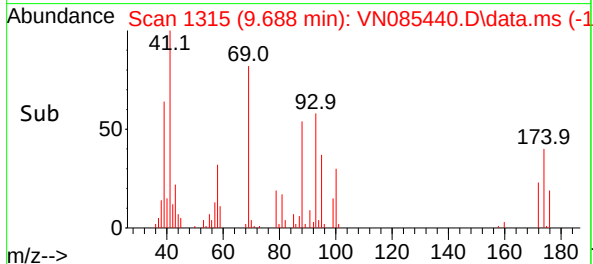
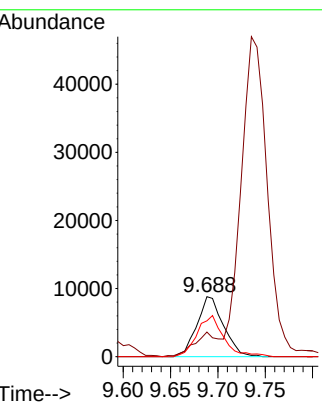
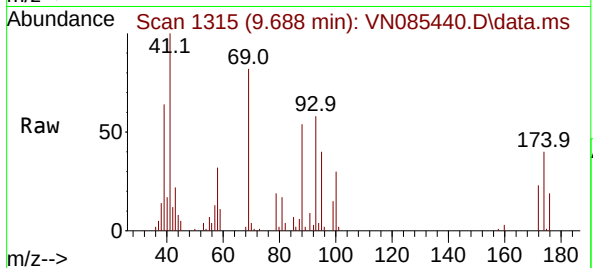
Tgt Ion: 88 Resp: 17140

Ion Ratio Lower Upper

88 100

43 34.9 26.6 39.8

58 69.0 59.5 89.3



#50

Toluene-d8

Concen: 19.581 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.006 min

Lab File: VN085440.D

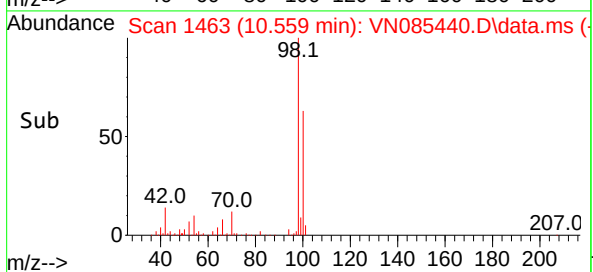
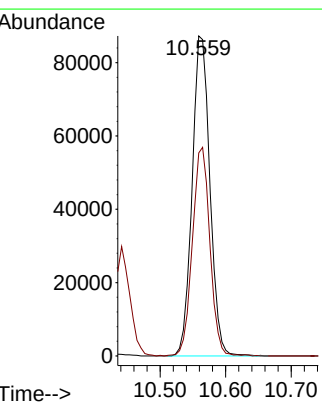
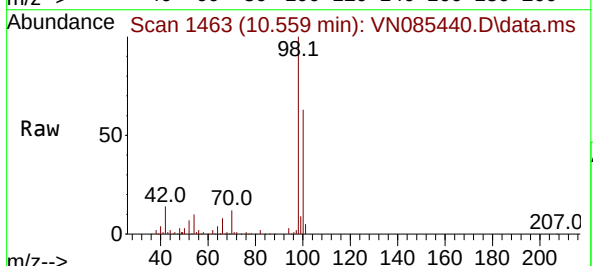
Acq: 14 Jan 2025 15:43

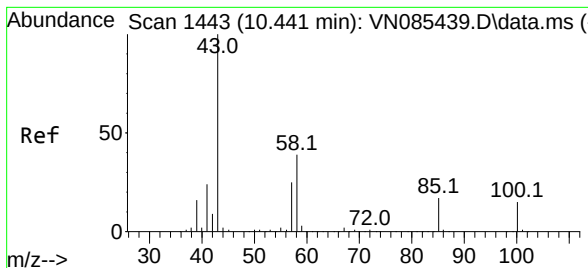
Tgt Ion: 98 Resp: 164391

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.4

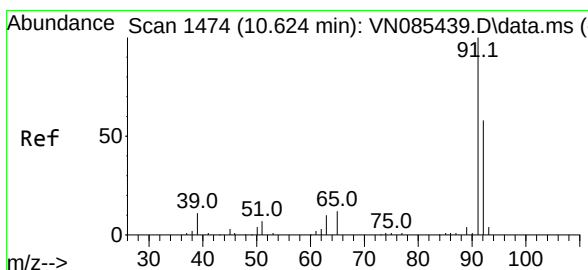
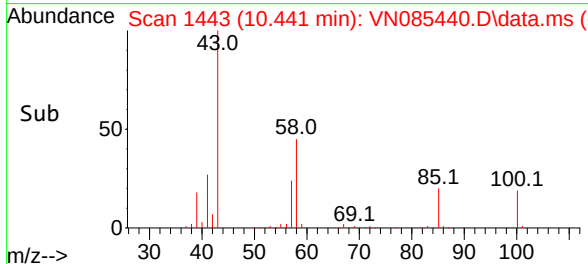
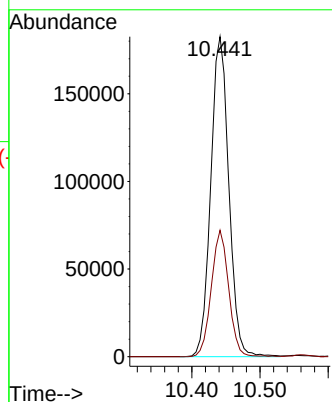
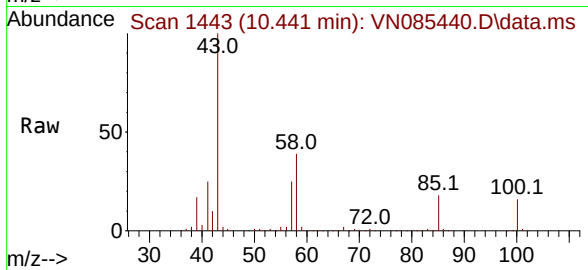




#51
4-Methyl-2-Pentanone
Concen: 108.249 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

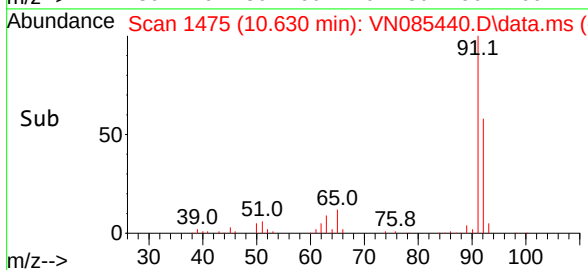
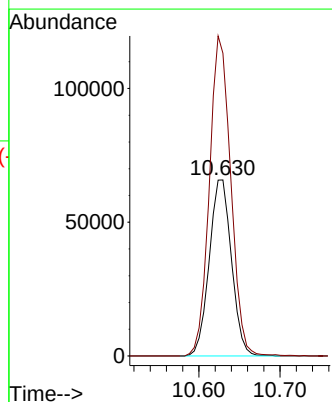
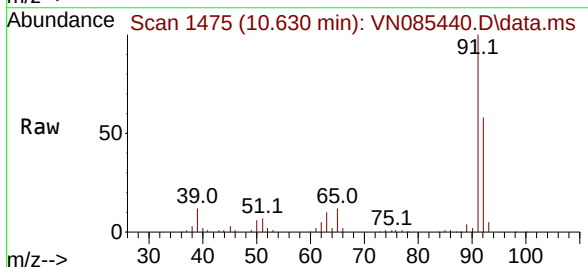
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

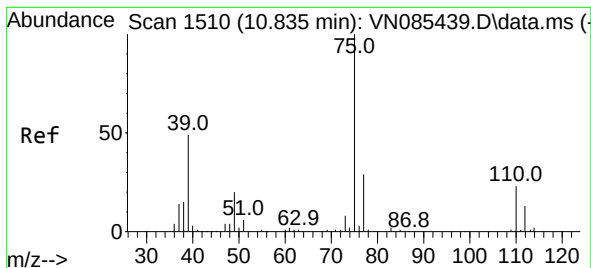
Tgt Ion: 43 Resp: 336911
Ion Ratio Lower Upper
43 100
58 38.1 30.5 45.7



#52
Toluene
Concen: 21.680 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 92 Resp: 125172
Ion Ratio Lower Upper
92 100
91 175.1 139.2 208.8

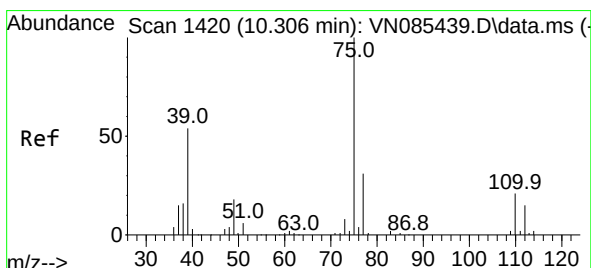
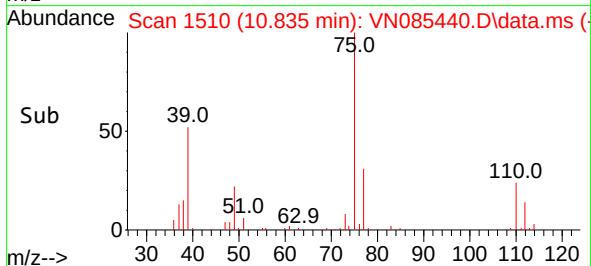
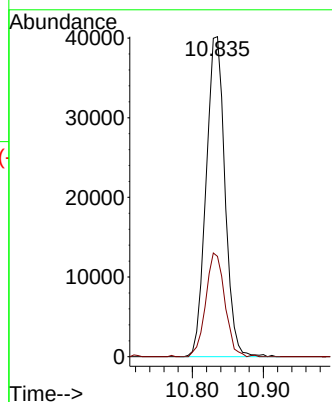
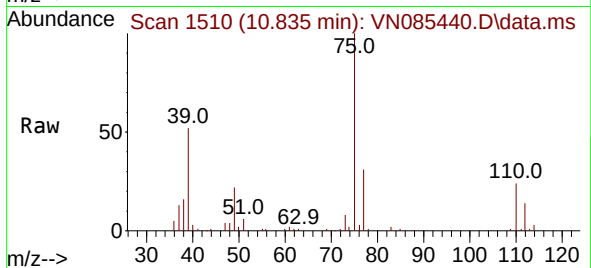




#53
 t-1,3-Dichloropropene
 Concen: 20.965 ug/l
 RT: 10.835 min Scan# 1510
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

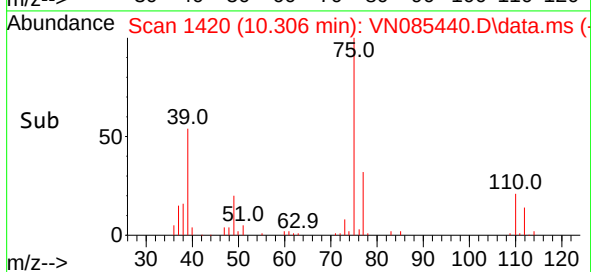
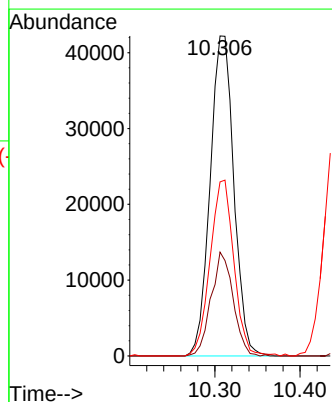
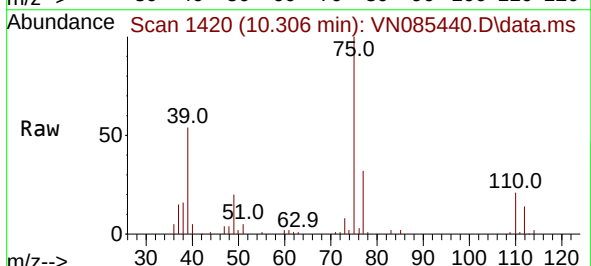
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

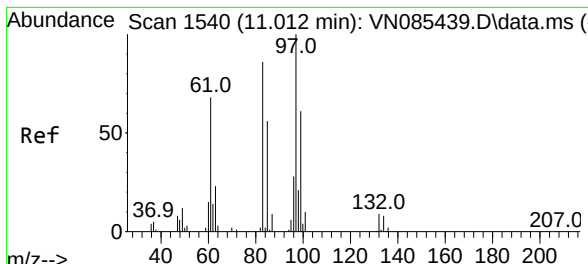
Tgt Ion: 75 Resp: 74129
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 21.684 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 81897
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.0 37.4
 39 54.4 43.1 64.7

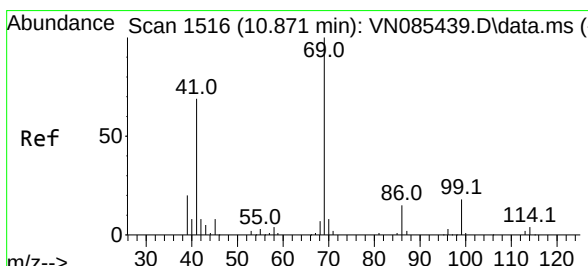
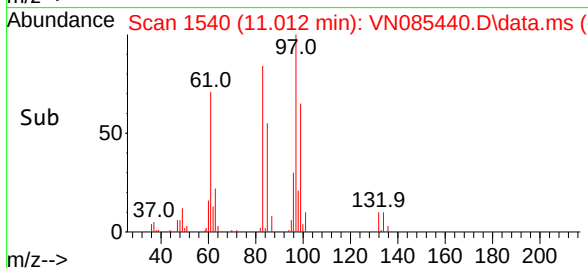
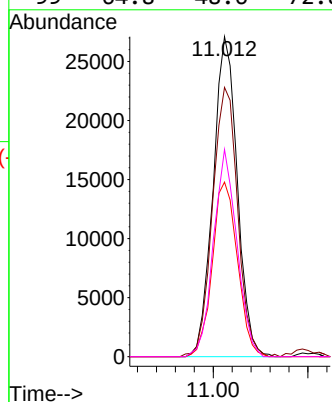
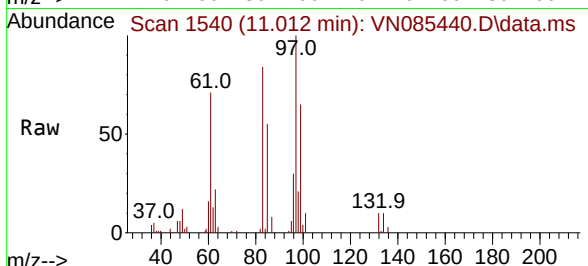




#55
 1,1,2-Trichloroethane
 Concen: 21.025 ug/l
 RT: 11.012 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

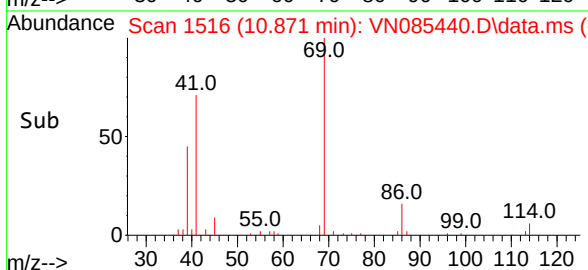
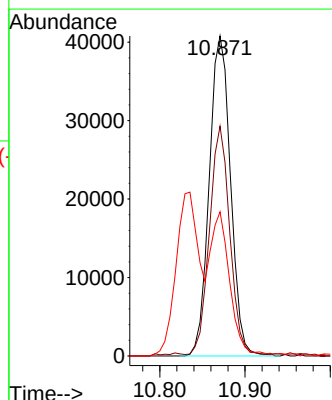
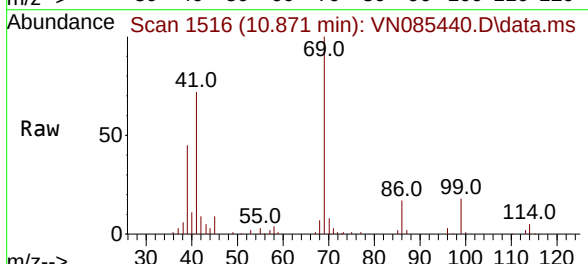
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

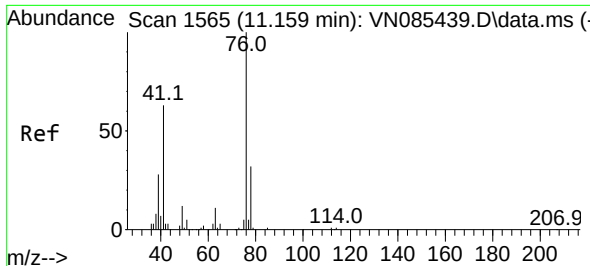
Tgt Ion:	97	Resp:	48039
Ion	Ratio	Lower	Upper
97	100		
83	84.1	69.0	103.6
85	54.6	44.6	66.8
99	64.8	48.6	72.8



#56
 Ethyl methacrylate
 Concen: 19.649 ug/l
 RT: 10.871 min Scan# 1516
 Delta R.T. -0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion:	69	Resp:	70934
Ion	Ratio	Lower	Upper
69	100		
41	67.6	54.6	82.0
39	41.7	32.4	48.6





#57

1,3-Dichloropropane

Concen: 21.196 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

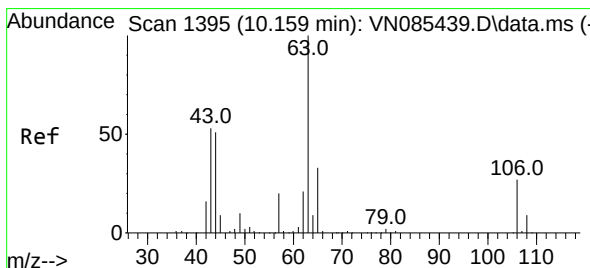
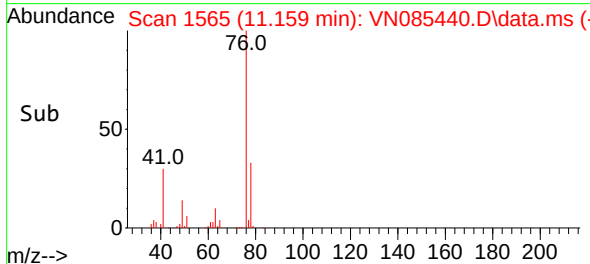
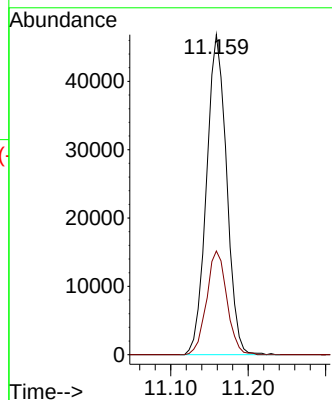
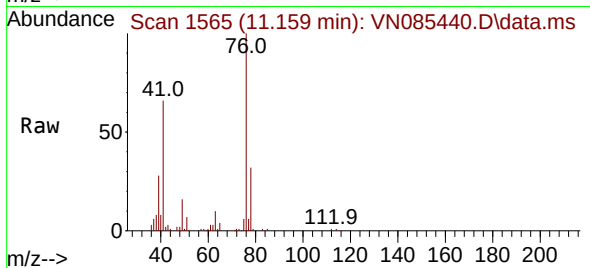
VSTDICC020

Tgt Ion: 76 Resp: 84210

Ion Ratio Lower Upper

76 100

78 32.7 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 105.991 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085440.D

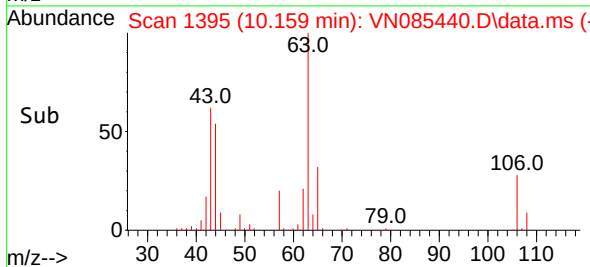
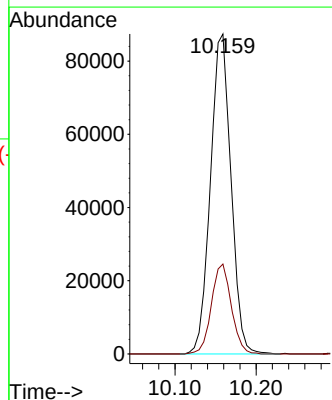
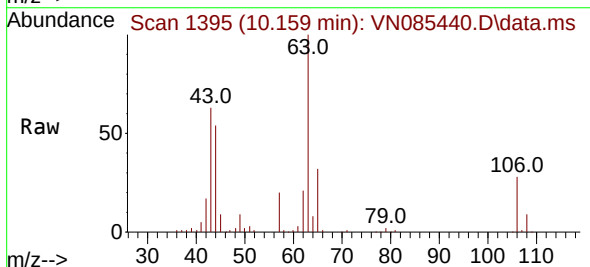
Acq: 14 Jan 2025 15:43

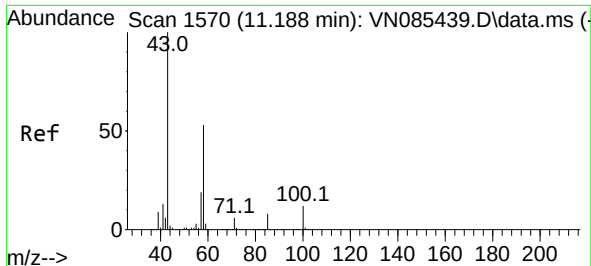
Tgt Ion: 63 Resp: 153681

Ion Ratio Lower Upper

63 100

106 27.2 21.6 32.4

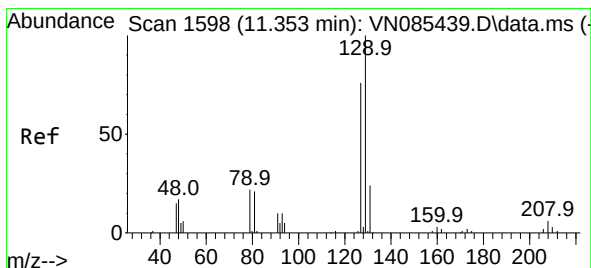
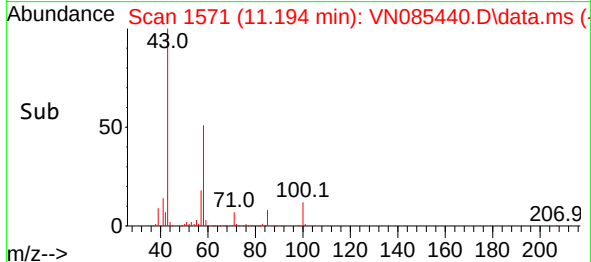
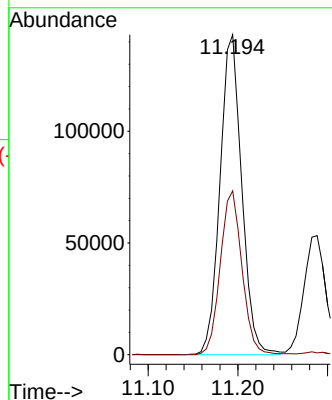
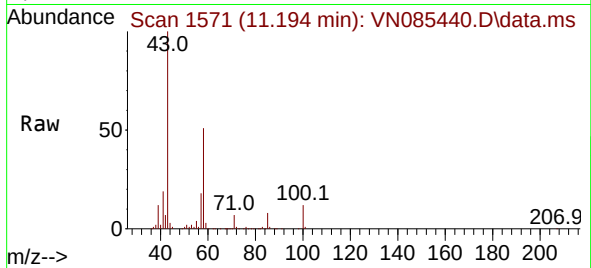




#59
2-Hexanone
Concen: 109.863 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

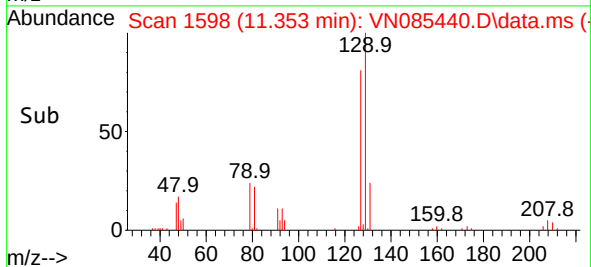
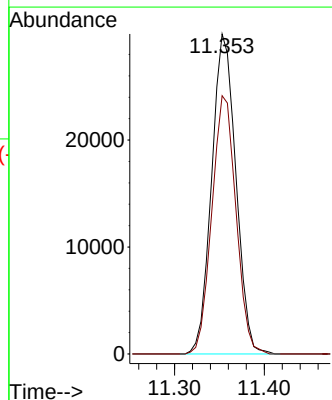
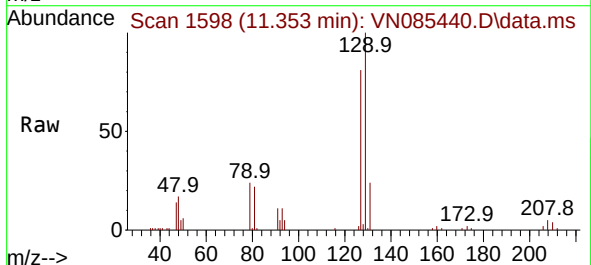
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

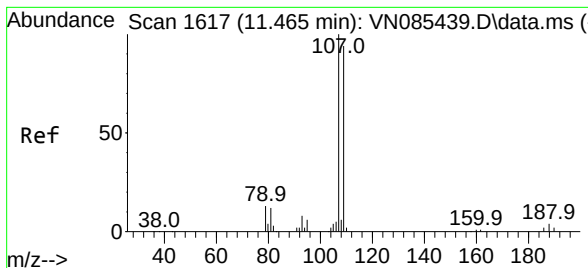
Tgt Ion: 43 Resp: 240595
Ion Ratio Lower Upper
43 100
58 51.1 26.2 78.6



#60
Dibromochloromethane
Concen: 20.326 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 129 Resp: 56069
Ion Ratio Lower Upper
129 100
127 80.4 38.6 115.8

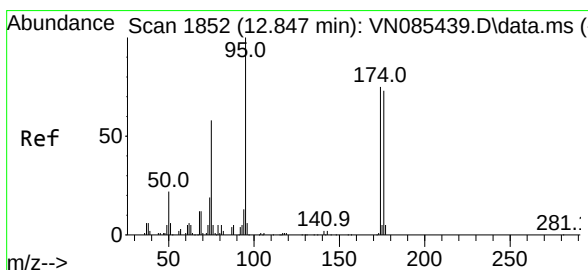
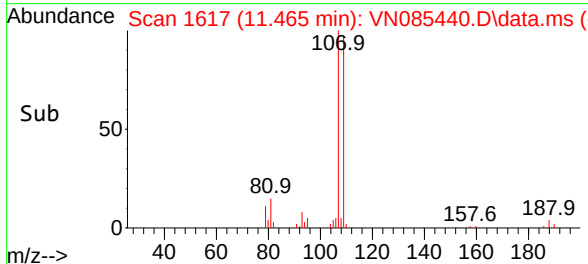
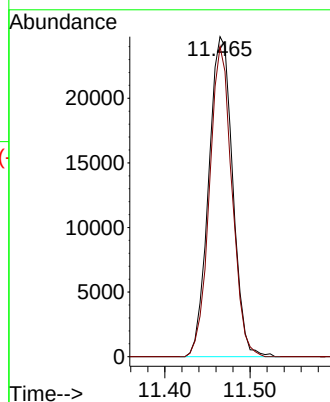
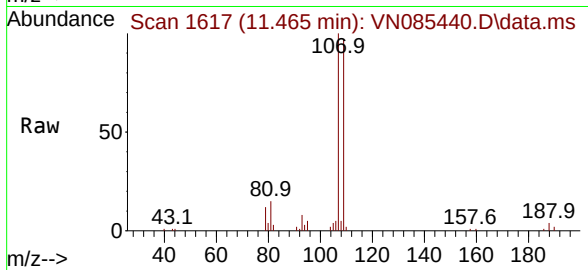




#61
1,2-Dibromoethane
Concen: 21.309 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

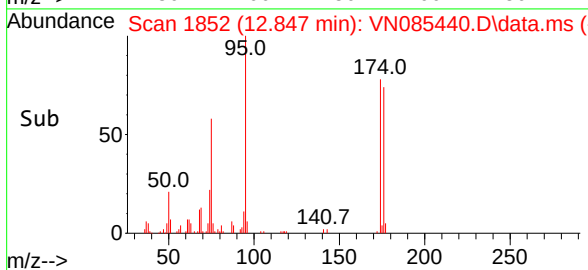
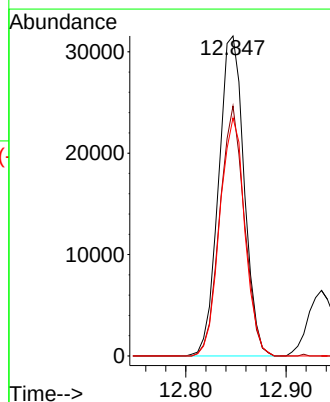
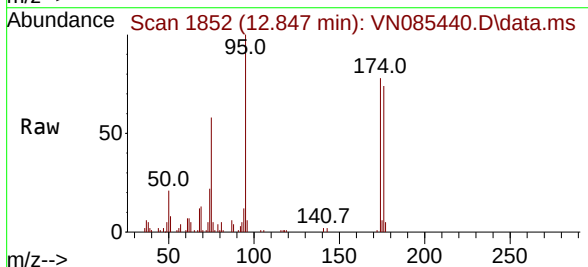
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

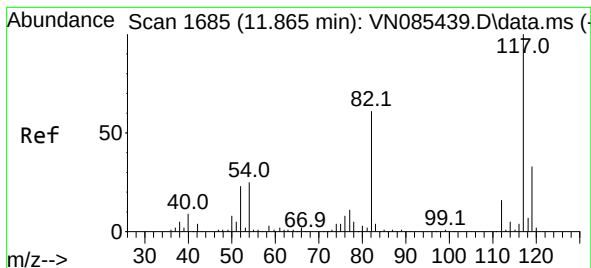
Tgt Ion:107 Resp: 48465
Ion Ratio Lower Upper
107 100
109 90.6 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 19.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 95 Resp: 55798
Ion Ratio Lower Upper
95 100
174 75.2 0.0 145.0
176 73.2 0.0 142.4

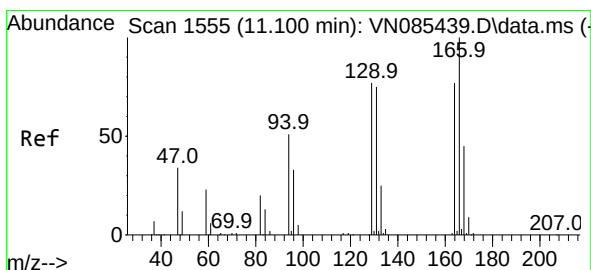
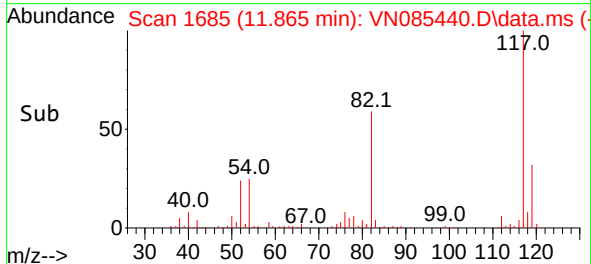
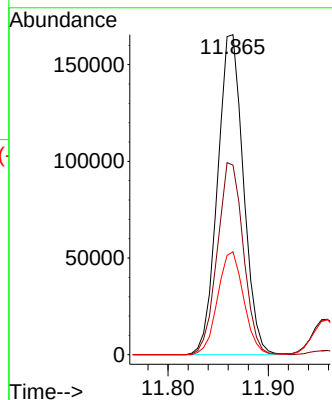
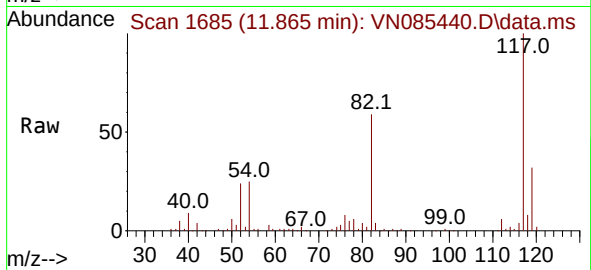




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

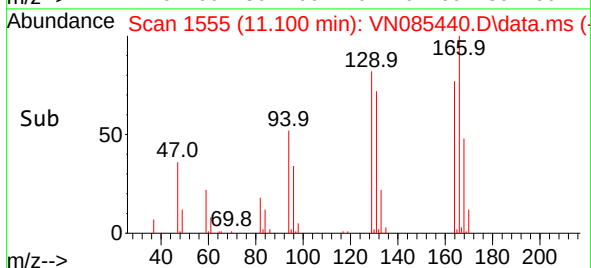
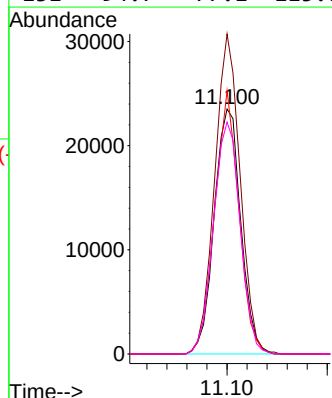
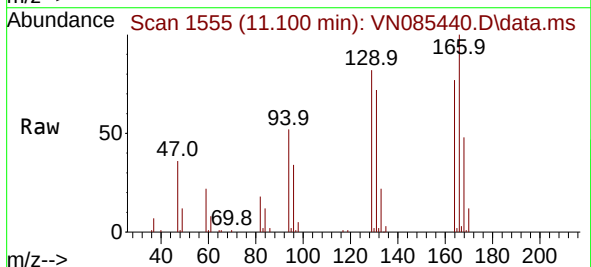
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

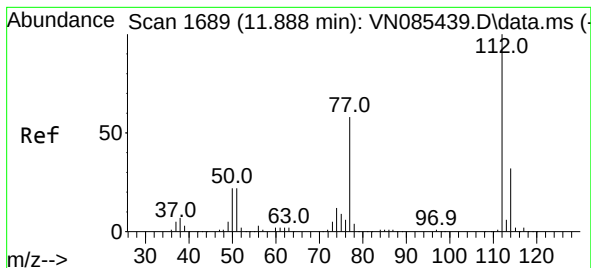
Tgt Ion:117 Resp: 296298
Ion Ratio Lower Upper
117 100
82 59.3 48.6 72.8
119 32.2 26.6 39.8



#64
Tetrachloroethene
Concen: 21.408 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:164 Resp: 43243
Ion Ratio Lower Upper
164 100
166 130.6 103.4 155.2
129 107.4 79.2 118.8
131 94.7 77.1 115.7

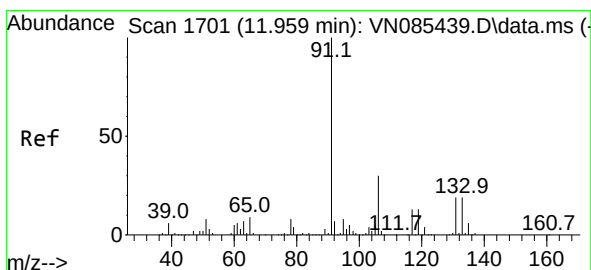
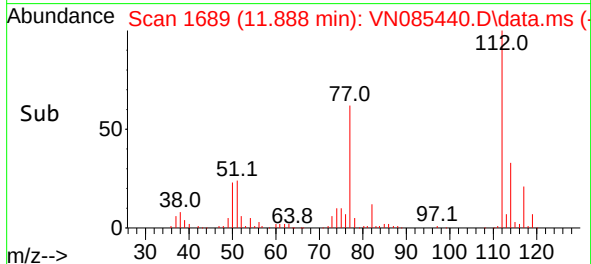
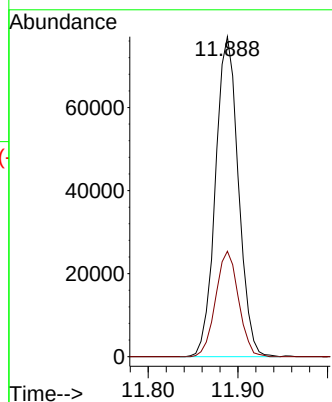
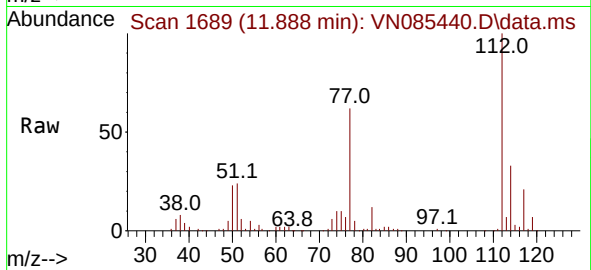




#65
Chlorobenzene
Concen: 21.077 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

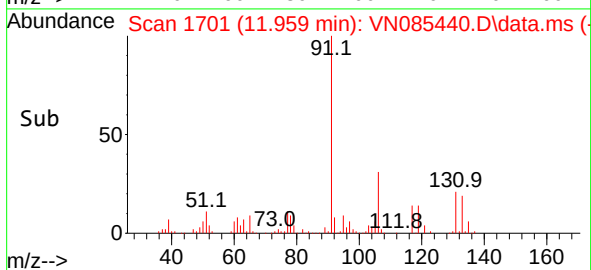
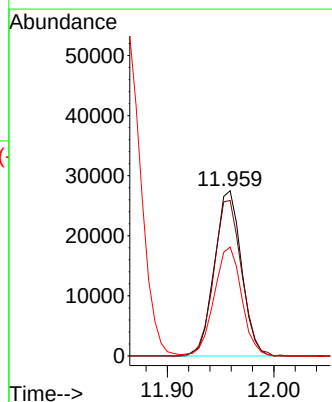
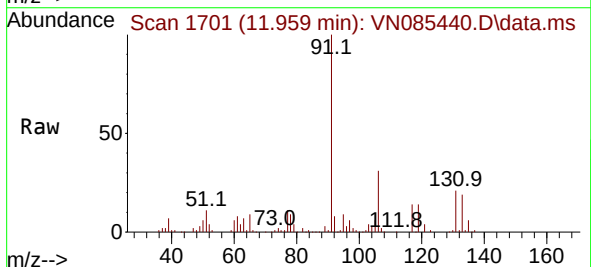
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

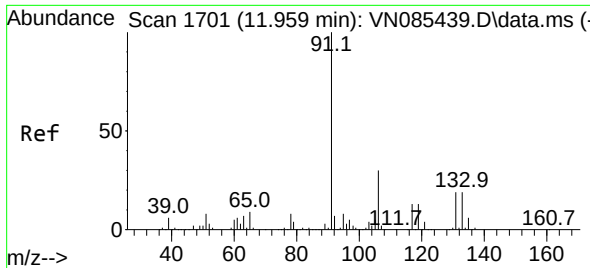
Tgt Ion:112 Resp: 136809
Ion Ratio Lower Upper
112 100
114 32.9 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 20.304 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:131 Resp: 48370
Ion Ratio Lower Upper
131 100
133 96.9 47.4 142.3
119 67.2 33.1 99.5

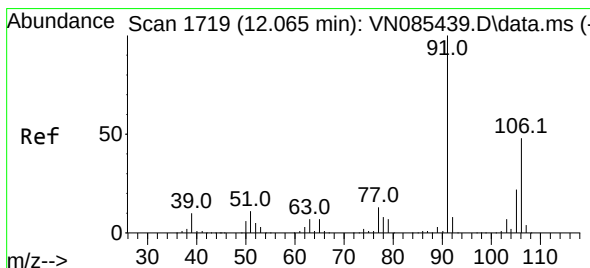
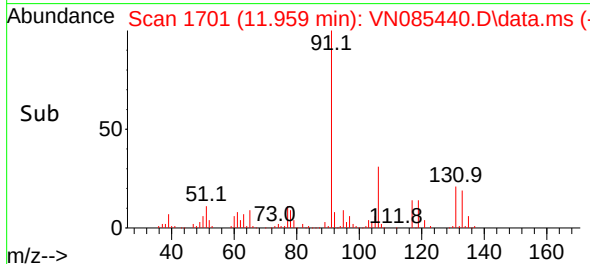
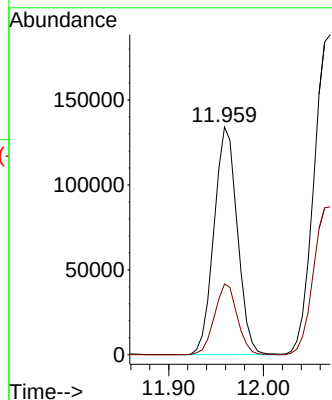
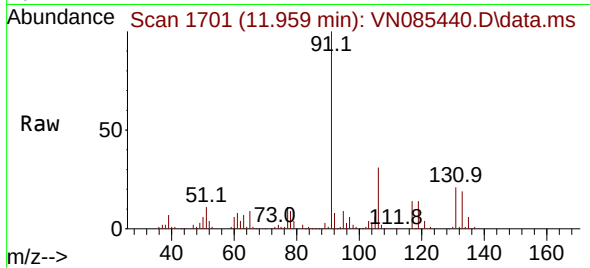




#67
Ethyl Benzene
Concen: 21.753 ug/l
RT: 11.959 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

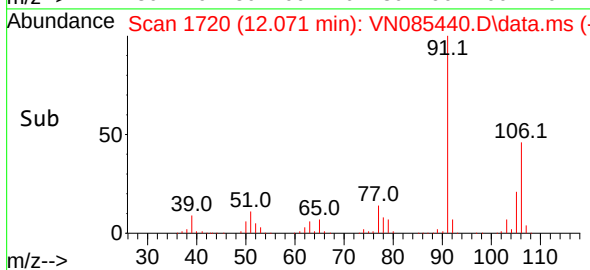
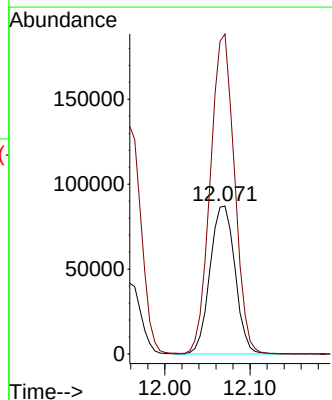
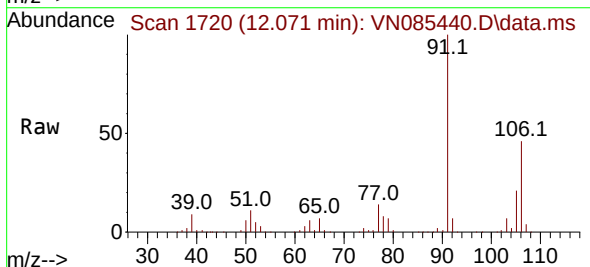
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

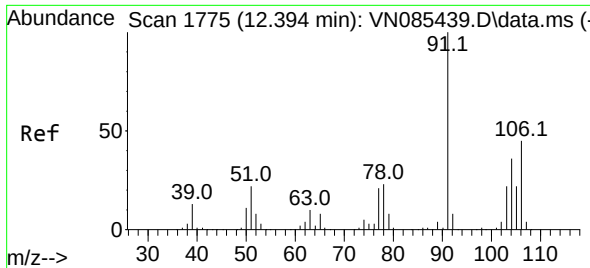
Tgt Ion: 91 Resp: 229978
Ion Ratio Lower Upper
91 100
106 31.1 23.8 35.8



#68
m/p-Xylenes
Concen: 45.494 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:106 Resp: 177755
Ion Ratio Lower Upper
106 100
91 209.3 167.7 251.5

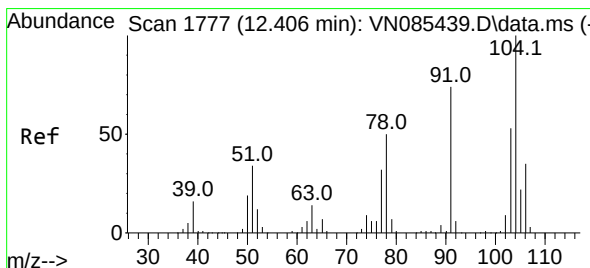
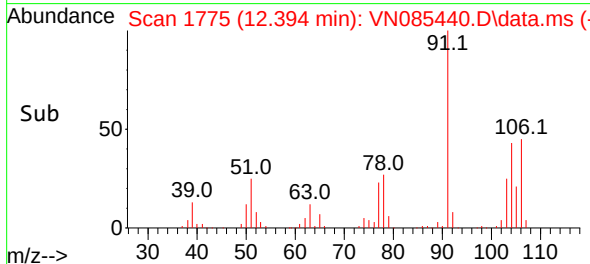
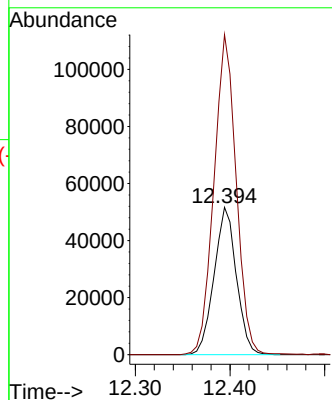
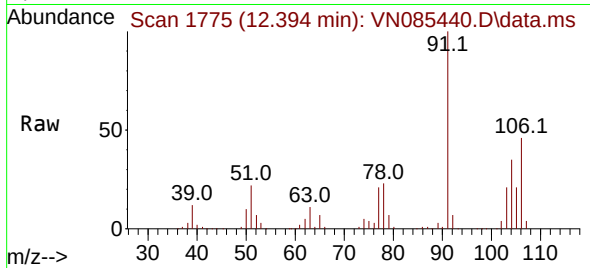




#69
o-Xylene
Concen: 22.643 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

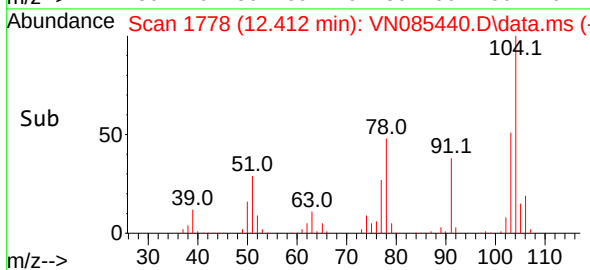
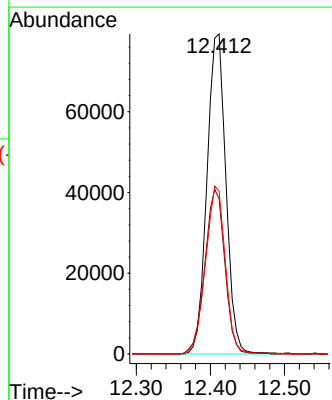
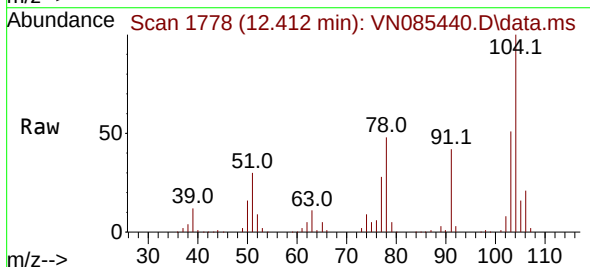
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

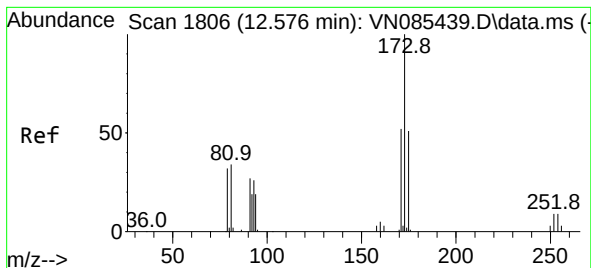
Tgt Ion:106 Resp: 84548
Ion Ratio Lower Upper
106 100
91 217.0 110.4 331.2



#70
Styrene
Concen: 22.749 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:104 Resp: 140581
Ion Ratio Lower Upper
104 100
78 54.4 42.5 63.7
103 54.8 43.8 65.8





#71

Bromoform

Concen: 21.683 ug/l

RT: 12.576 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

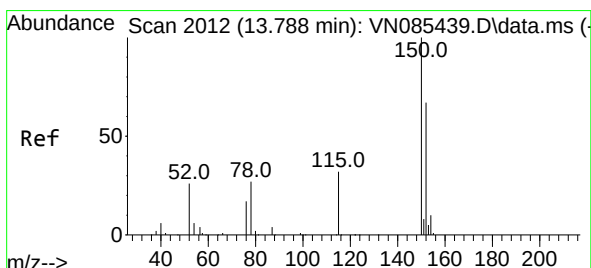
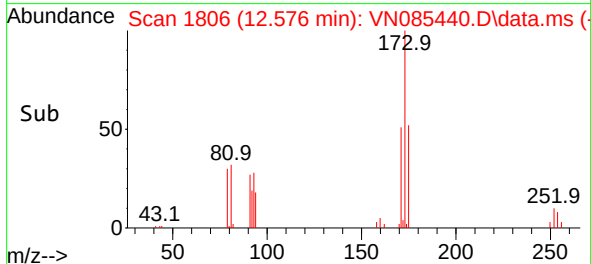
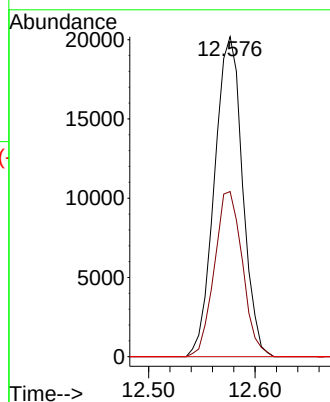
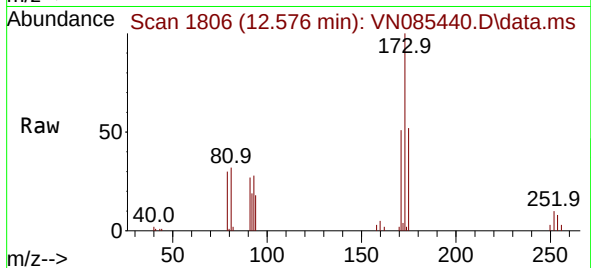
Tgt Ion:173 Resp: 36961

Ion Ratio Lower Upper

173 100

175 51.7 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

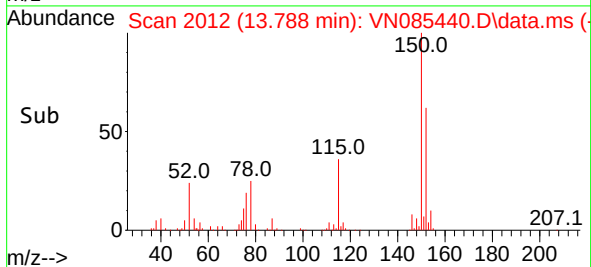
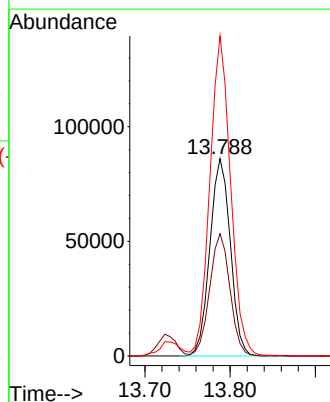
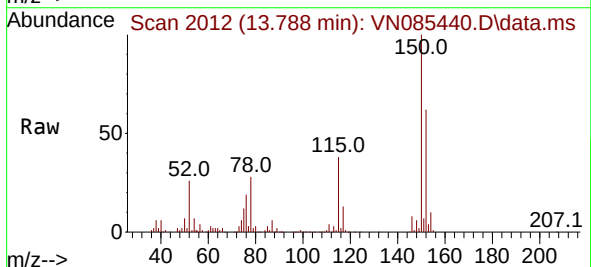
Tgt Ion:152 Resp: 143526

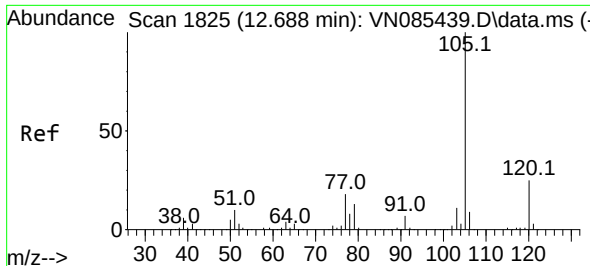
Ion Ratio Lower Upper

152 100

115 61.4 31.1 93.3

150 163.9 0.0 343.6

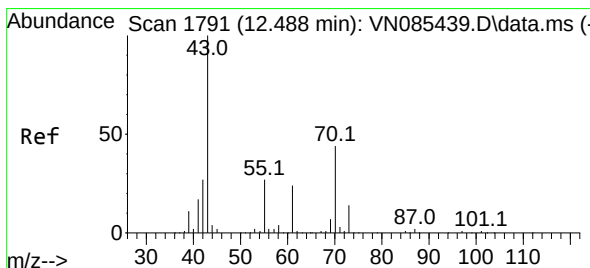
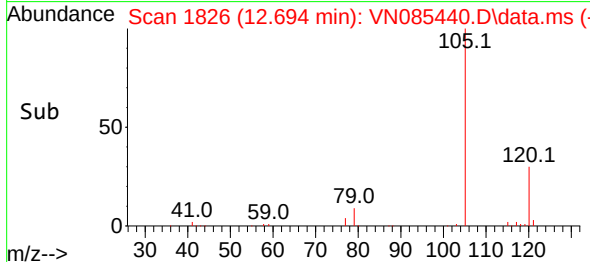
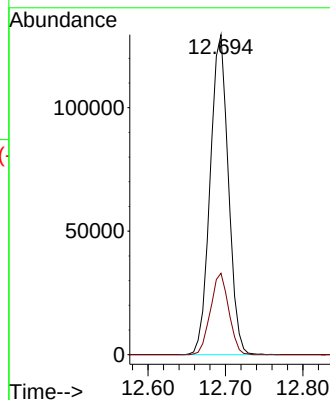
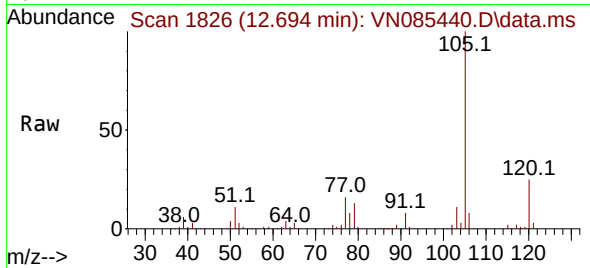




#73
Isopropylbenzene
Concen: 21.819 ug/l
RT: 12.694 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

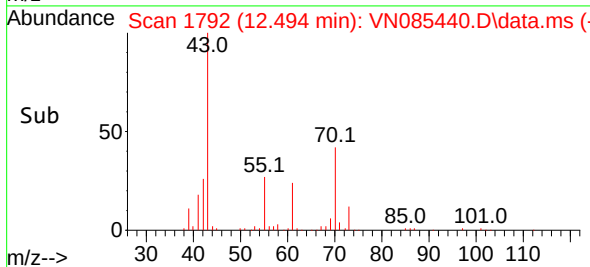
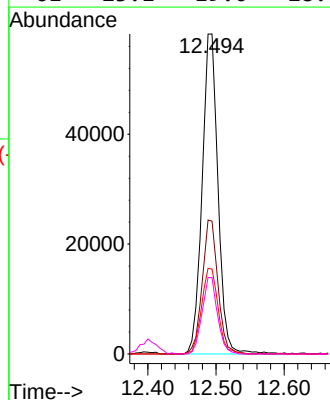
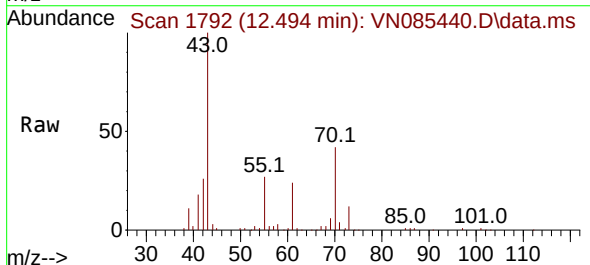
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

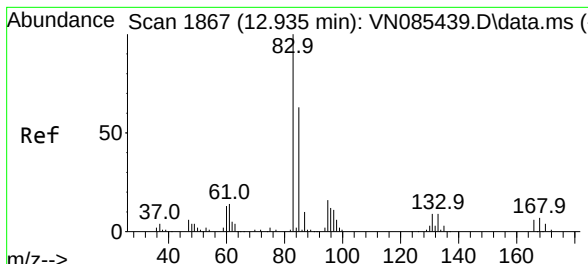
Tgt Ion:105 Resp: 211354
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.3



#74
N-ethyl acetate
Concen: 21.656 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 43 Resp: 94292
Ion Ratio Lower Upper
43 100
70 41.4 34.0 51.0
55 27.9 21.4 32.2
61 23.1 19.0 28.4

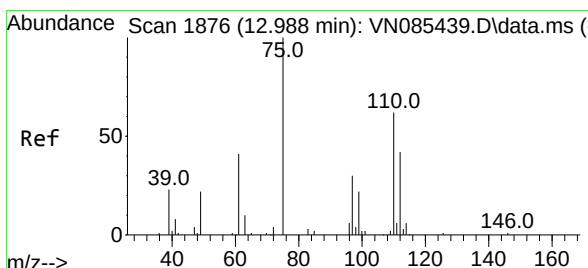
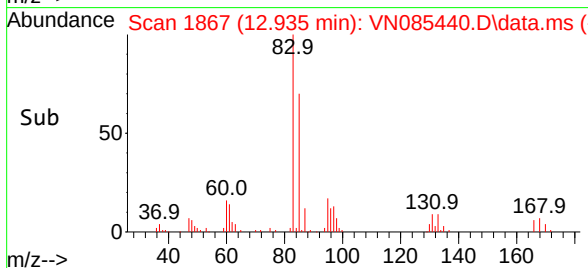
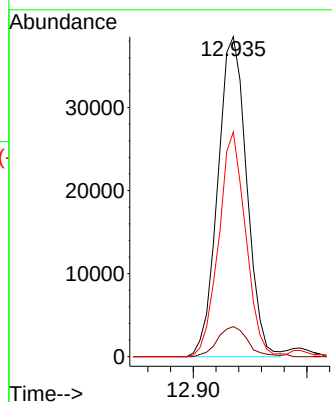
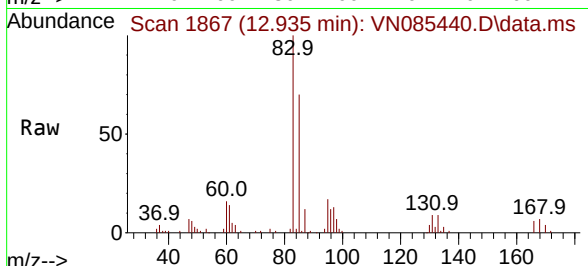




#75
1,1,2,2-Tetrachloroethane
Concen: 19.917 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

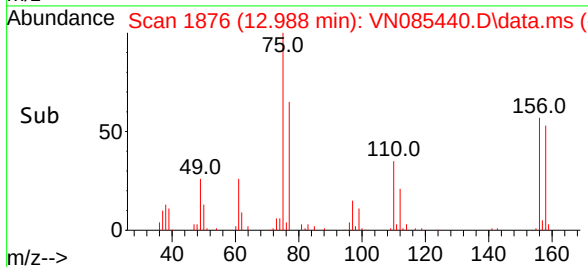
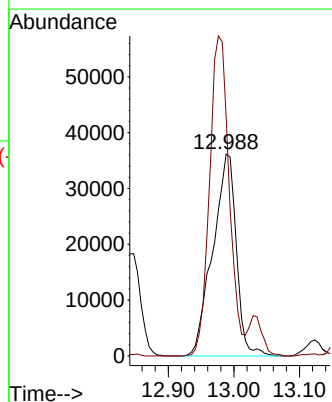
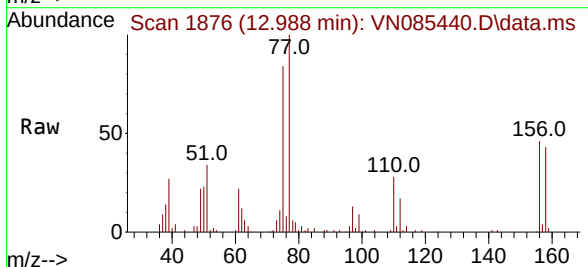
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

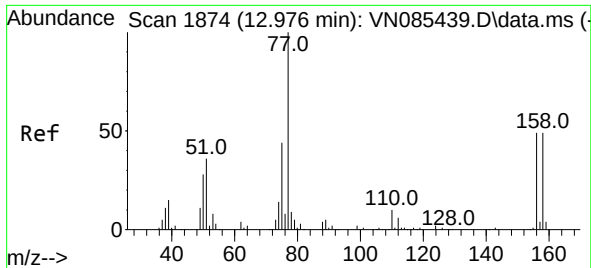
Tgt Ion: 83 Resp: 68151
Ion Ratio Lower Upper
83 100
131 9.9 4.8 14.4
85 65.5 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 30.902 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 75 Resp: 90004
Ion Ratio Lower Upper
75 100
77 133.2 109.7 329.2

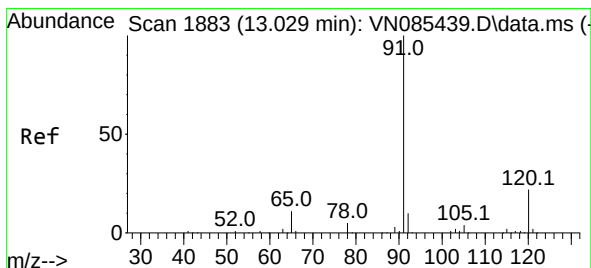
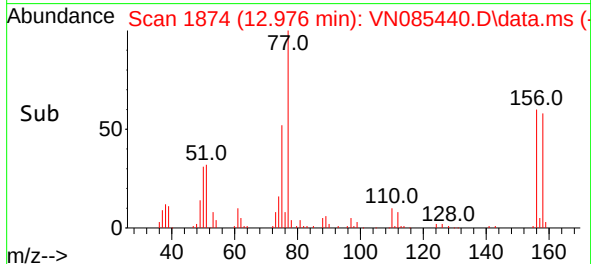
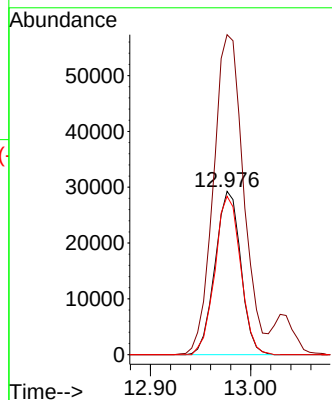
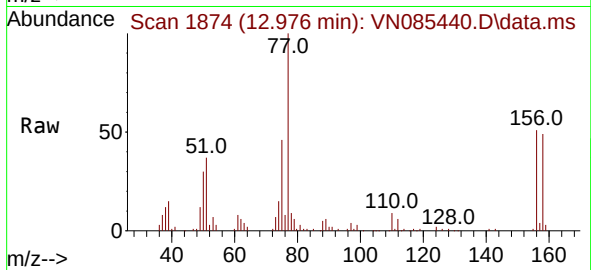




#77
Bromobenzene
Concen: 20.556 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

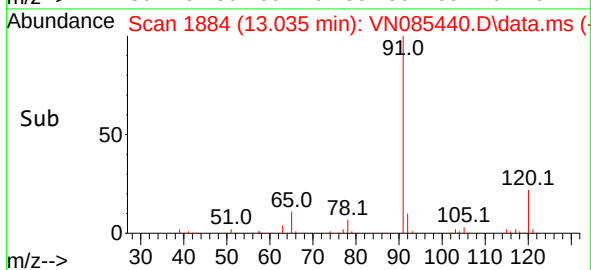
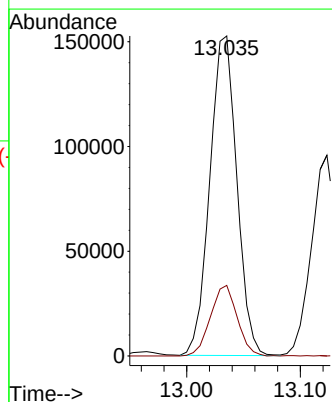
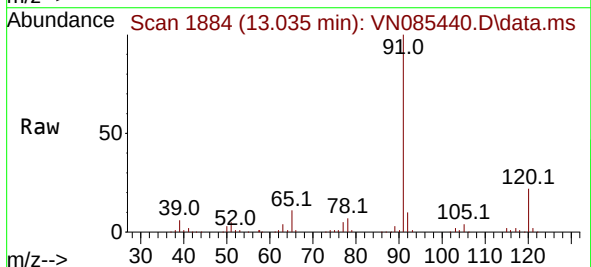
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

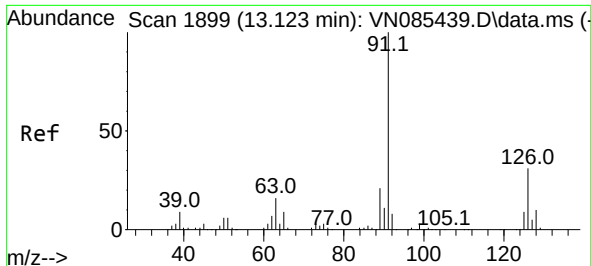
Tgt Ion:156 Resp: 52022
Ion Ratio Lower Upper
156 100
77 230.4 114.1 342.4
158 97.0 48.9 146.8



#78
n-propylbenzene
Concen: 22.028 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 252610
Ion Ratio Lower Upper
91 100
120 21.8 10.9 32.6





#79

2-Chlorotoluene

Concen: 21.358 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

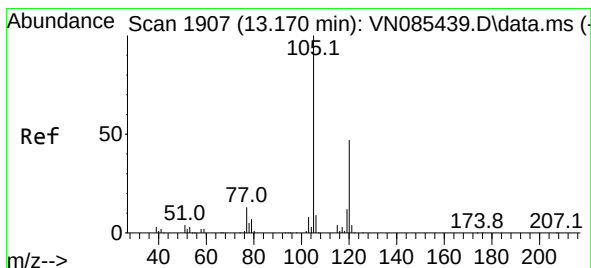
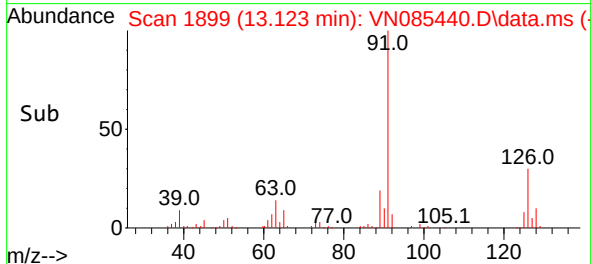
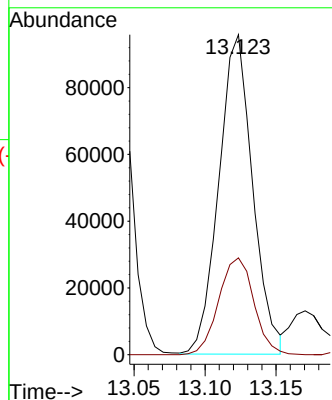
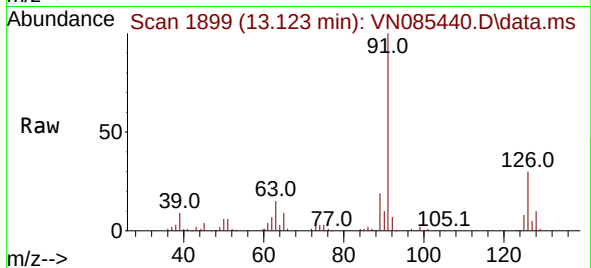
VSTDIC020

Tgt Ion: 91 Resp: 158511

Ion Ratio Lower Upper

91 100

126 31.5 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 22.533 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085440.D

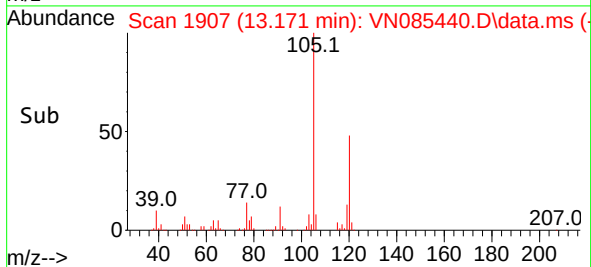
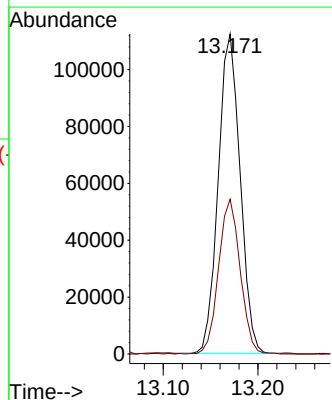
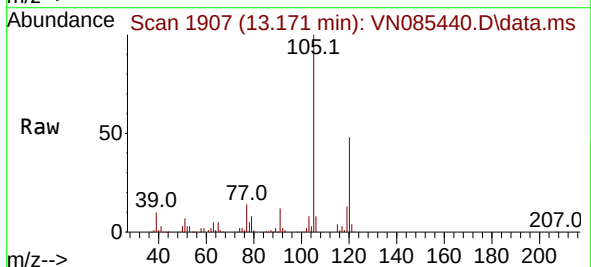
Acq: 14 Jan 2025 15:43

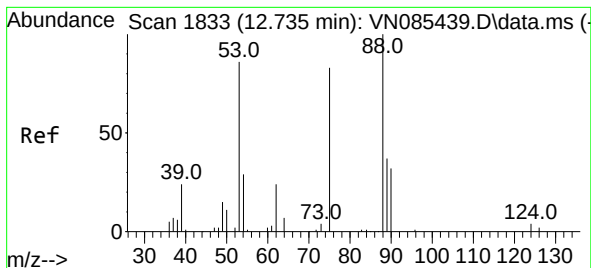
Tgt Ion: 105 Resp: 180294

Ion Ratio Lower Upper

105 100

120 47.9 23.9 71.7

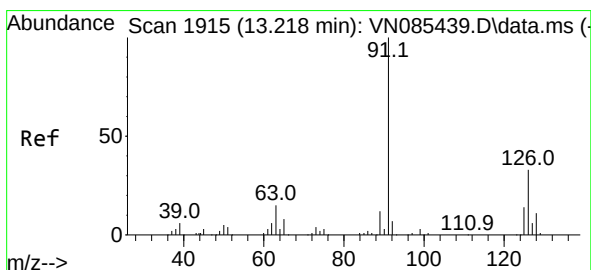
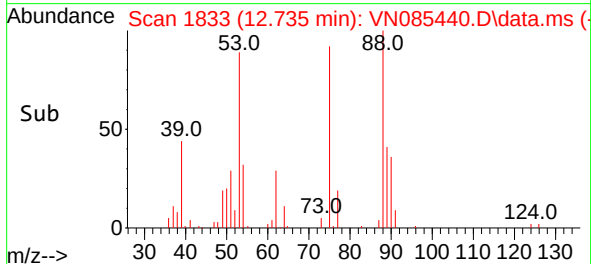
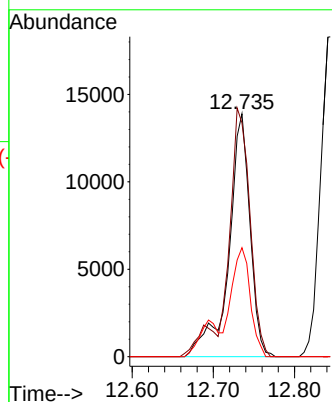
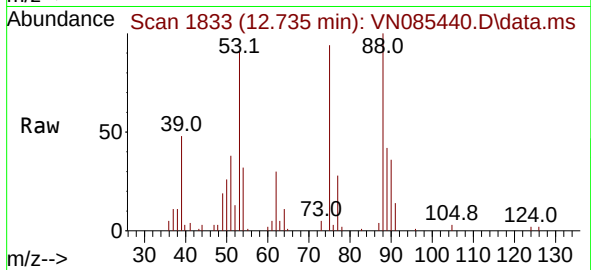




#81
trans-1,4-Dichloro-2-butene
Concen: 23.322 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

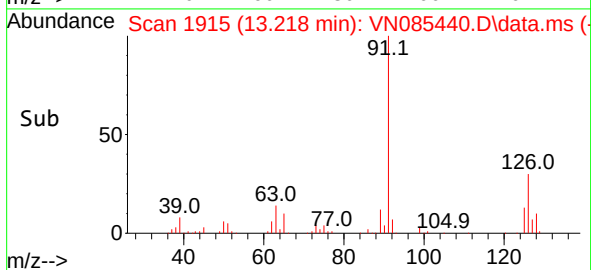
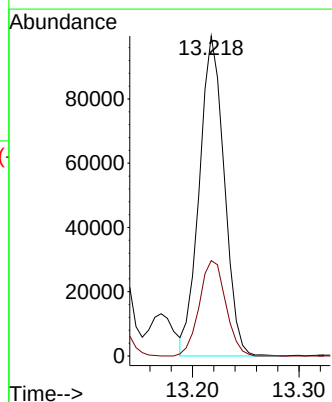
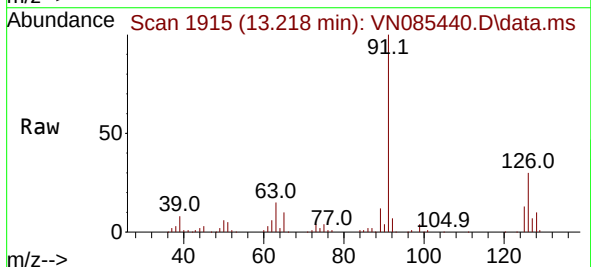
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

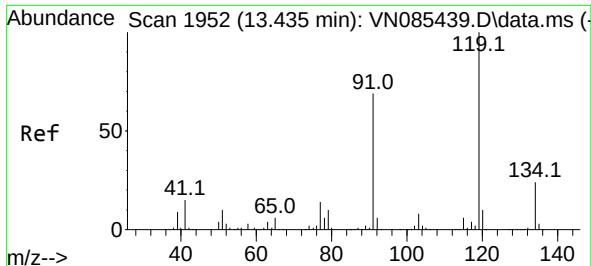
Tgt Ion: 75 Resp: 25146
Ion Ratio Lower Upper
75 100
53 94.6 95.6 143.4#
89 41.3 37.0 55.6



#82
4-Chlorotoluene
Concen: 21.906 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 91 Resp: 161880
Ion Ratio Lower Upper
91 100
126 31.6 15.9 47.7





#83

tert-Butylbenzene

Concen: 21.958 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085440.D

Acq: 14 Jan 2025 15:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

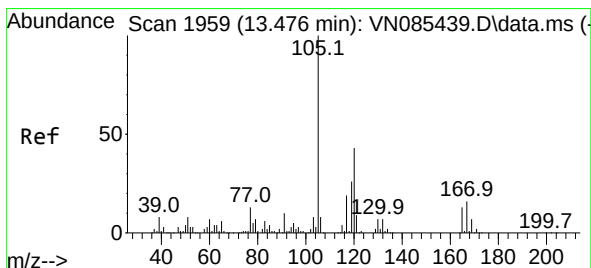
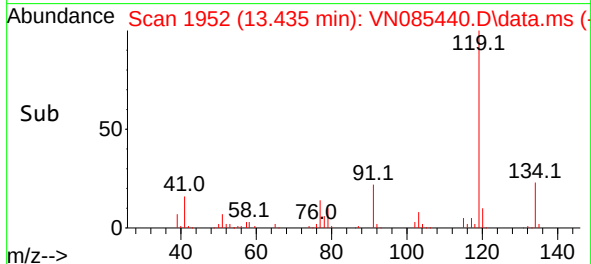
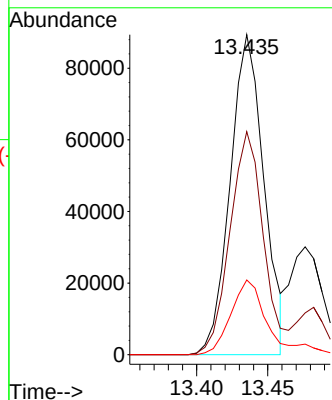
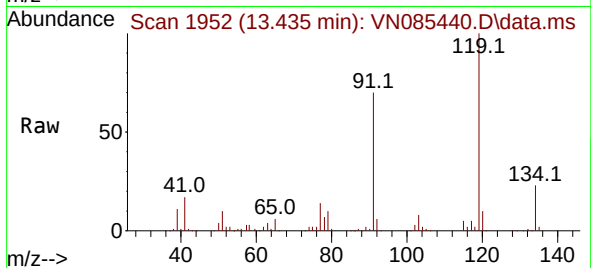
Tgt Ion:119 Resp: 147541

Ion Ratio Lower Upper

119 100

91 69.5 35.1 105.3

134 25.5 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 22.965 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085440.D

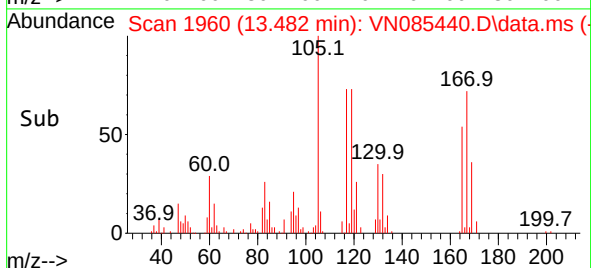
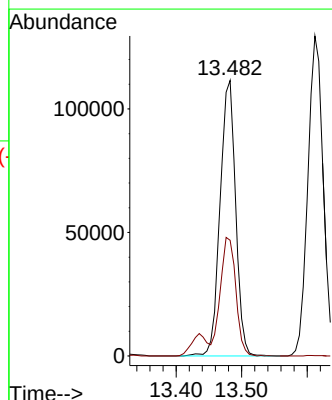
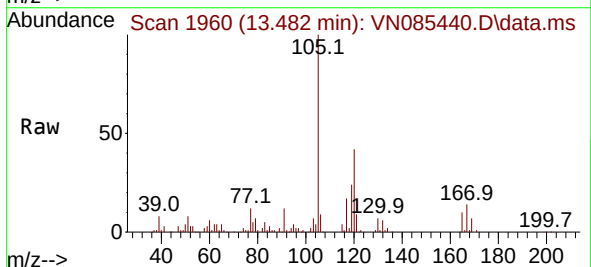
Acq: 14 Jan 2025 15:43

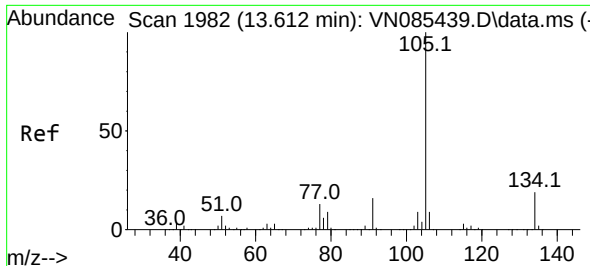
Tgt Ion:105 Resp: 183144

Ion Ratio Lower Upper

105 100

120 42.8 21.6 65.0

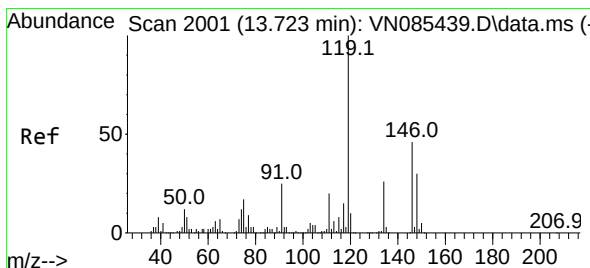
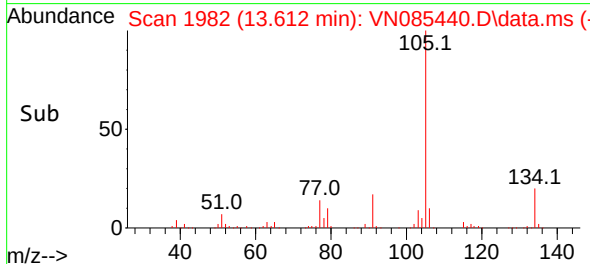
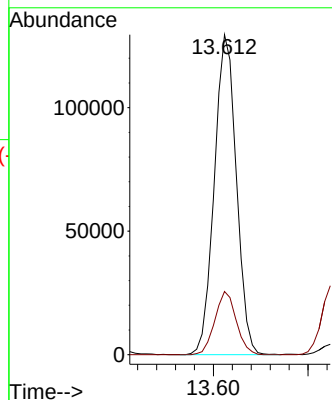
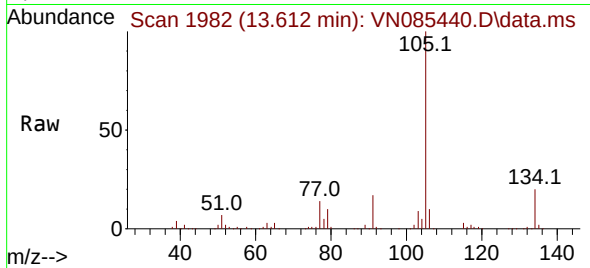




#85
 sec-Butylbenzene
 Concen: 22.457 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

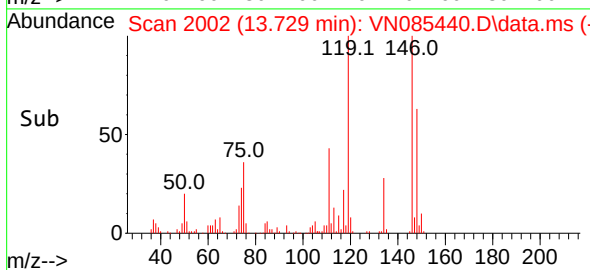
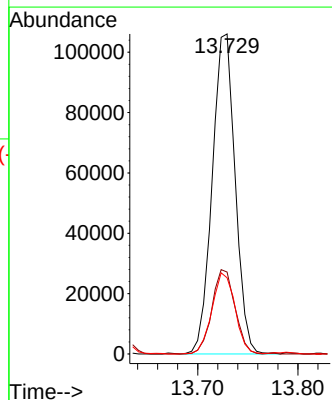
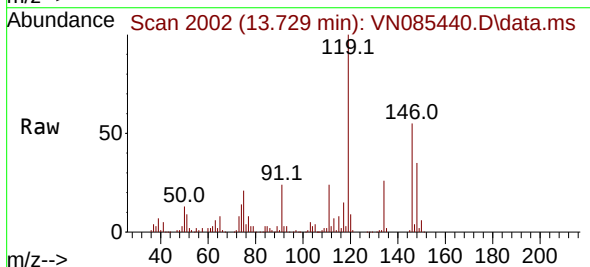
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

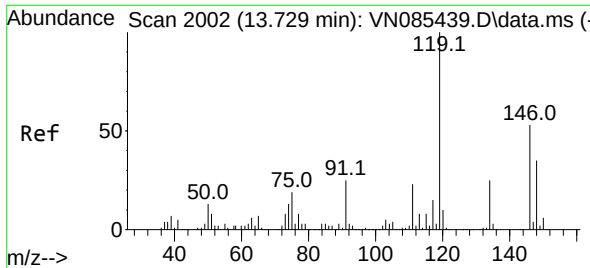
Tgt Ion:105 Resp: 209133
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 21.661 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion:119 Resp: 168888
 Ion Ratio Lower Upper
 119 100
 134 26.4 12.7 38.0
 91 25.5 12.7 38.1

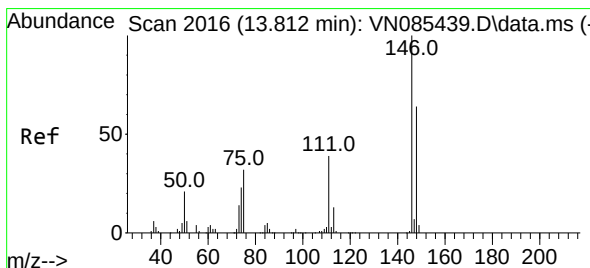
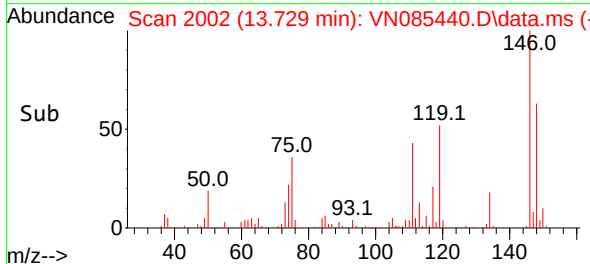
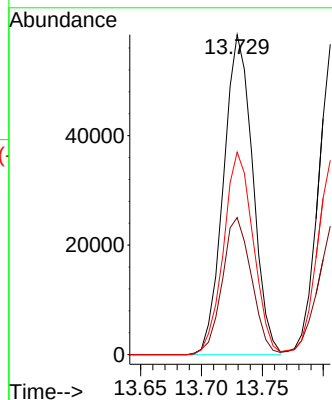
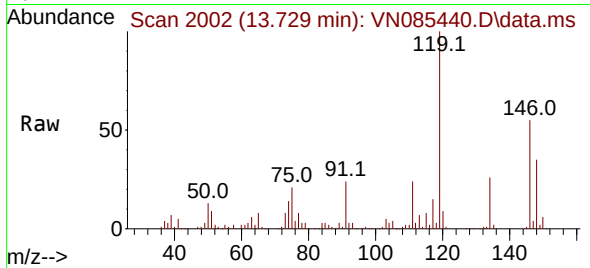




#87
1,3-Dichlorobenzene
Concen: 20.952 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

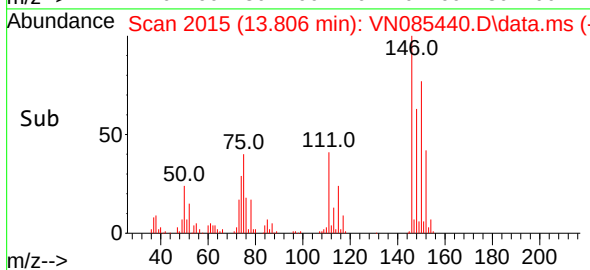
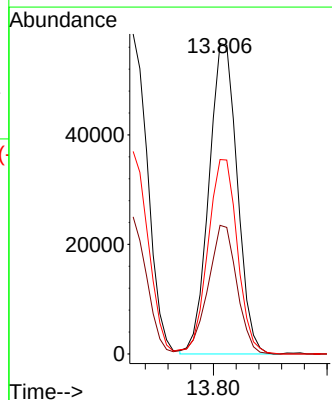
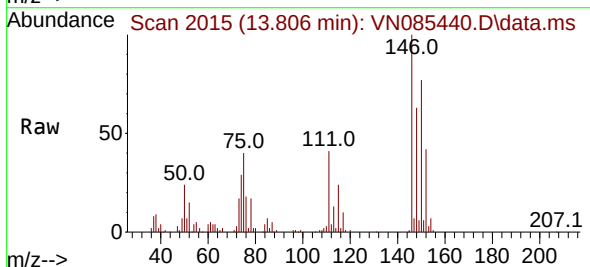
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

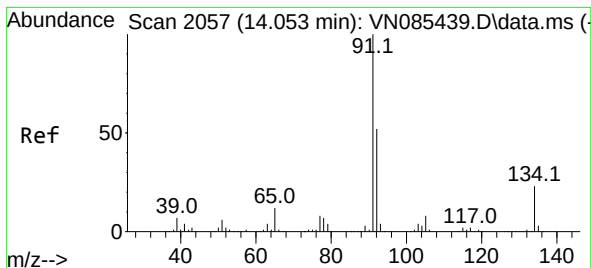
Tgt Ion:146 Resp: 97652
Ion Ratio Lower Upper
146 100
111 42.9 21.4 64.3
148 64.3 32.3 96.9



#88
1,4-Dichlorobenzene
Concen: 20.351 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion:146 Resp: 98321
Ion Ratio Lower Upper
146 100
111 42.2 21.3 63.7
148 65.1 32.4 97.0

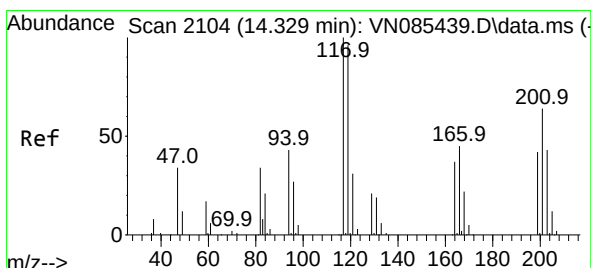
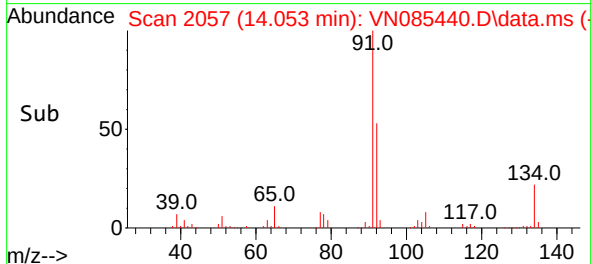
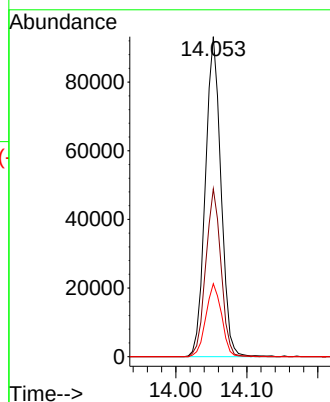
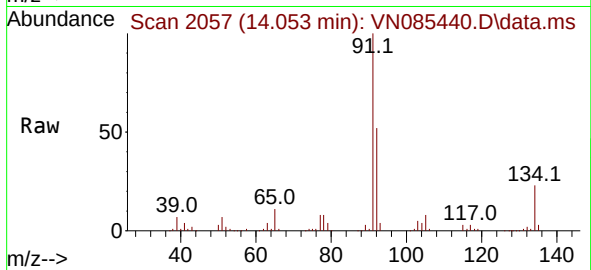




#89
n-Butylbenzene
Concen: 21.355 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

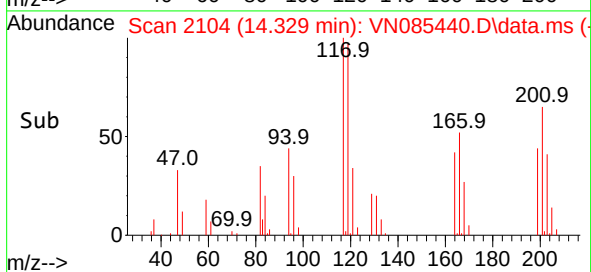
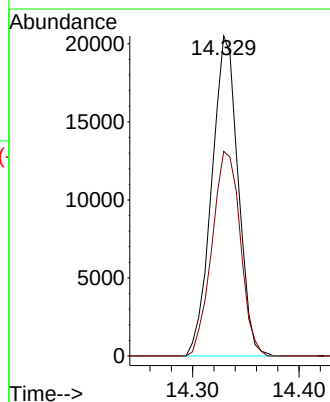
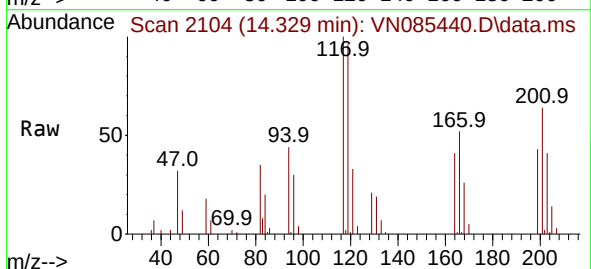
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

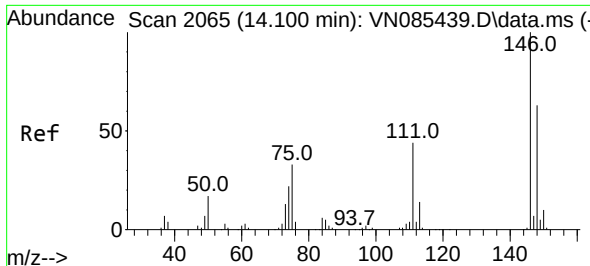
Tgt Ion: 91 Resp: 142673
Ion Ratio Lower Upper
91 100
92 51.0 25.8 77.3
134 23.0 11.7 35.1



#90
Hexachloroethane
Concen: 19.858 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085440.D
Acq: 14 Jan 2025 15:43

Tgt Ion: 117 Resp: 35205
Ion Ratio Lower Upper
117 100
201 68.8 33.7 101.0

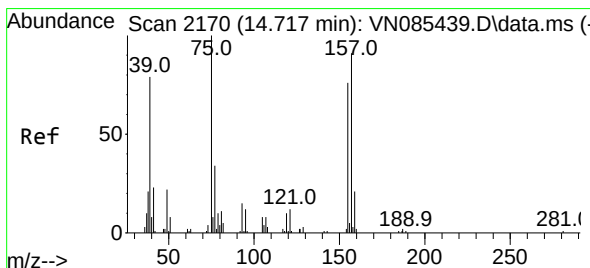
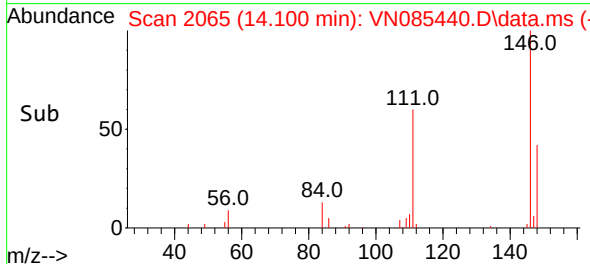
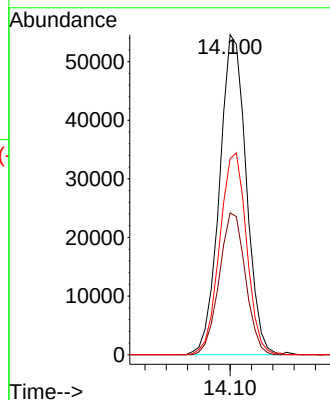
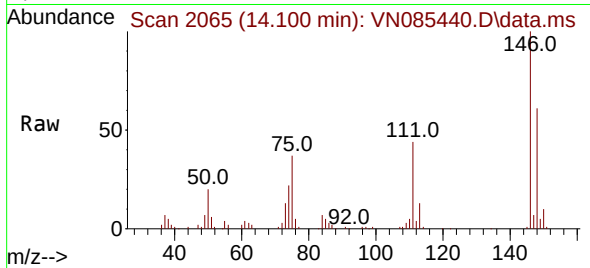




#91
 1,2-Dichlorobenzene
 Concen: 20.425 ug/l
 RT: 14.100 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

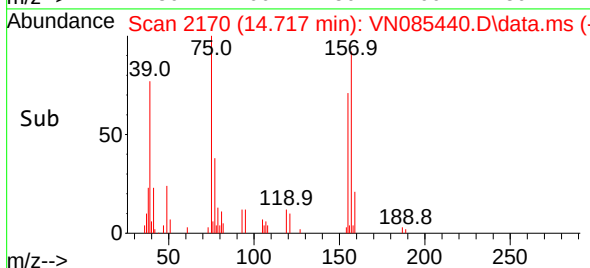
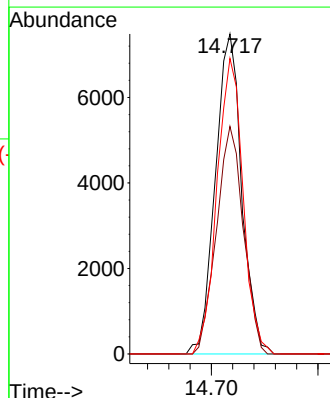
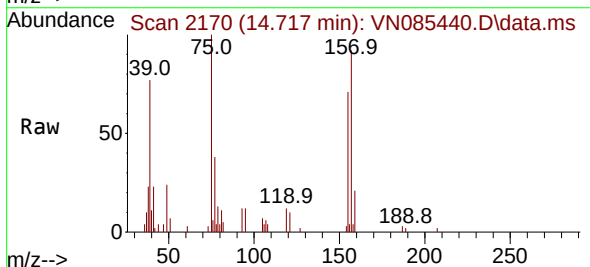
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

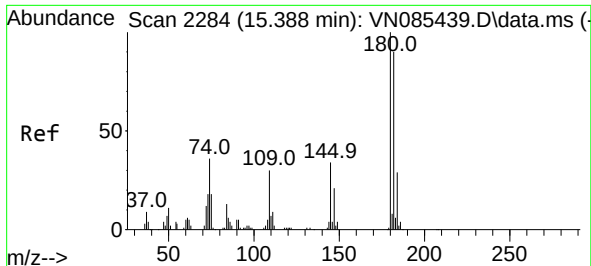
Tgt Ion:	146	Resp:	94954
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	63.5	31.4	94.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.580 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion:	75	Resp:	12859
Ion	Ratio	Lower	Upper
75	100		
155	72.7	36.4	109.2
157	90.9	45.4	136.1

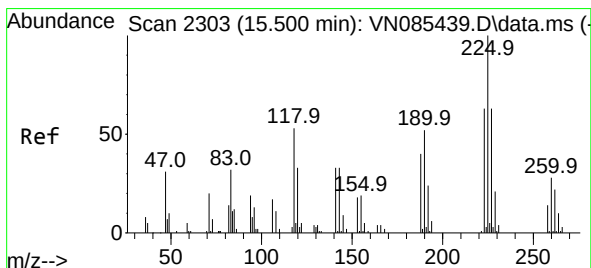
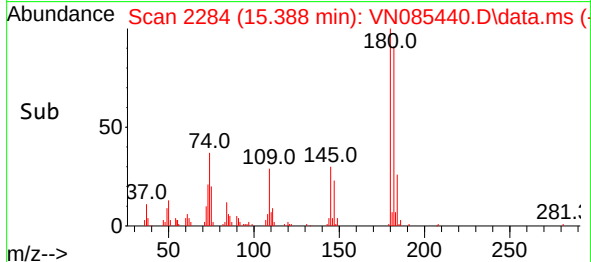
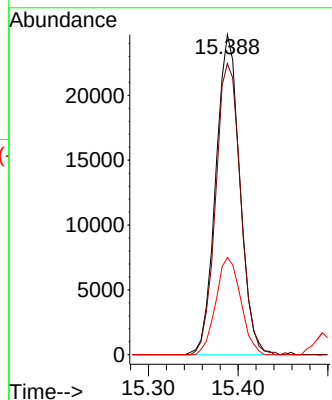
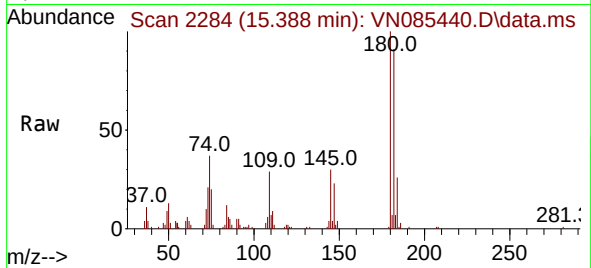




#93
 1,2,4-Trichlorobenzene
 Concen: 21.233 ug/l
 RT: 15.388 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

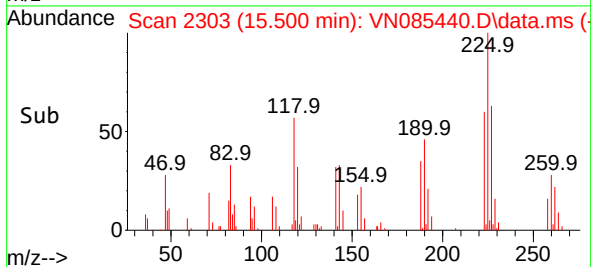
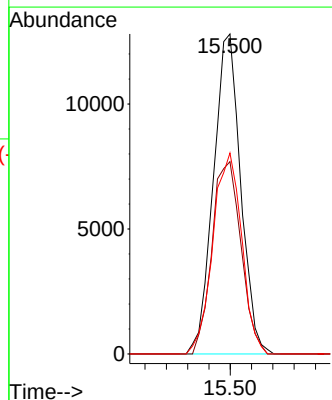
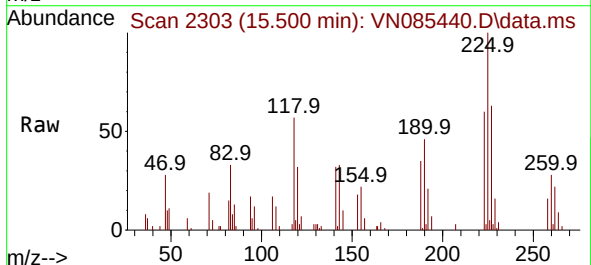
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

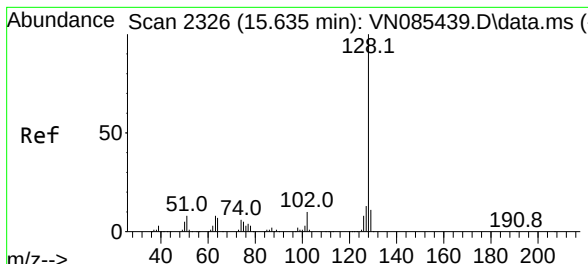
Tgt Ion:180	Resp:	45878
Ion Ratio	Lower	Upper
180	100	
182	94.2	46.8 140.3
145	31.4	16.0 48.0



#94
 Hexachlorobutadiene
 Concen: 19.805 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion:225	Resp:	22719
Ion Ratio	Lower	Upper
225	100	
223	64.3	30.7 92.1
227	66.3	30.9 92.5

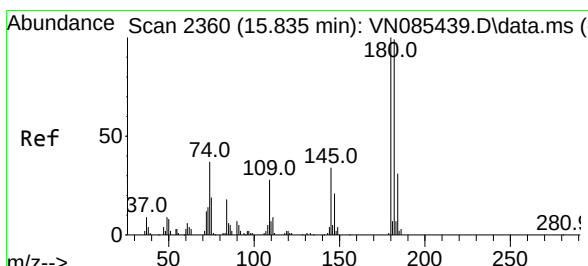
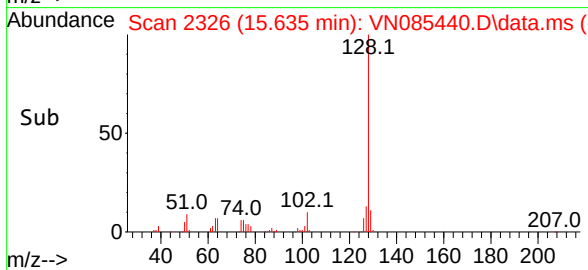
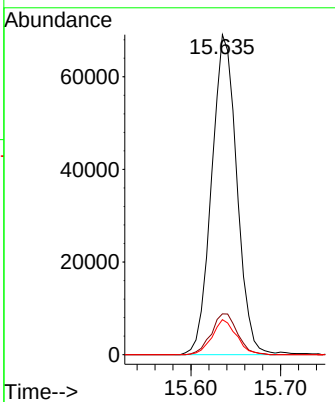
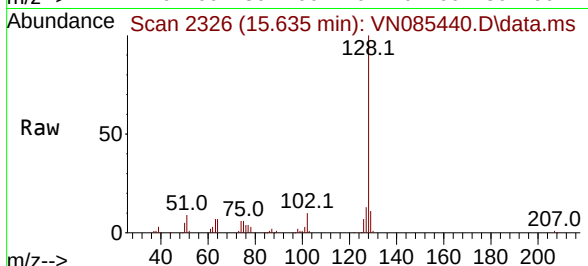




#95
 Naphthalene
 Concen: 20.906 ug/l
 RT: 15.635 min Scan# 2326
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

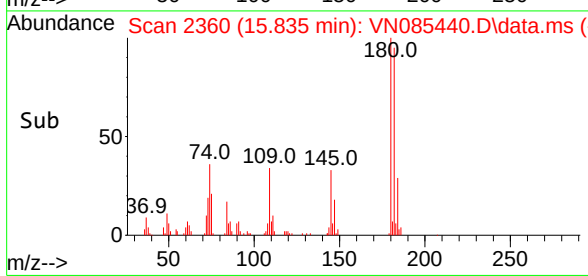
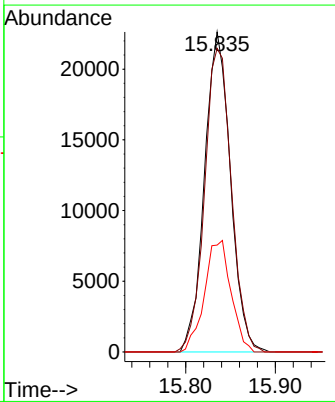
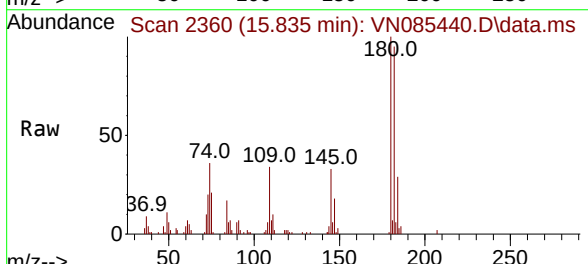
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion:	128	Resp:	134793
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.6	8.8	13.2



#96
 1,2,3-Trichlorobenzene
 Concen: 20.797 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. 0.000 min
 Lab File: VN085440.D
 Acq: 14 Jan 2025 15:43

Tgt Ion:	180	Resp:	45468
Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.4	142.2
145	35.7	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085441.D
 Acq On : 14 Jan 2025 16:07
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Quant Time: Jan 15 01:44:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	195889	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	340403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132934	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	29856	9.442	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	18.880%#
35) Dibromofluoromethane	8.165	113	21110	8.939	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	17.880%#
50) Toluene-d8	10.565	98	73223	8.727	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	17.460%#
62) 4-Bromofluorobenzene	12.847	95	24327	8.476	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	16.960%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	26124	9.850	ug/l	96
3) Chloromethane	2.359	50	27143	9.452	ug/l	99
4) Vinyl Chloride	2.512	62	27862	9.653	ug/l	100
5) Bromomethane	2.965	94	17139	9.830	ug/l	87
6) Chloroethane	3.130	64	16791	9.175	ug/l	96
7) Trichlorofluoromethane	3.501	101	40755	9.731	ug/l	98
8) Diethyl Ether	3.953	74	12415	8.581	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	22982	9.742	ug/l	98
10) Methyl Iodide	4.589	142	25085	9.286	ug/l	99
11) Tert butyl alcohol	5.512	59	17962	49.608	ug/l	97
12) 1,1-Dichloroethene	4.342	96	20615	9.806	ug/l	99
13) Acrolein	4.177	56	25568	51.729	ug/l	99
14) Allyl chloride	5.018	41	32240	9.451	ug/l	97
15) Acrylonitrile	5.712	53	53959	46.918	ug/l	98
16) Acetone	4.424	43	48475	47.446	ug/l	98
17) Carbon Disulfide	4.712	76	60201	9.300	ug/l #	94
18) Methyl Acetate	5.030	43	30500	9.817	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	65207	9.552	ug/l	91
20) Methylene Chloride	5.277	84	23723	9.379	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	21127	9.403	ug/l	97
22) Diisopropyl ether	6.671	45	71857	9.490	ug/l	97
23) Vinyl Acetate	6.600	43	250575	47.125	ug/l	98
24) 1,1-Dichloroethane	6.565	63	43099	9.335	ug/l	95
25) 2-Butanone	7.477	43	71191	47.350	ug/l	99
26) 2,2-Dichloropropane	7.483	77	36105	9.672	ug/l	99
27) cis-1,2-Dichloroethene	7.489	96	25049	9.466	ug/l	97
28) Bromochloromethane	7.806	49	19037	8.863	ug/l	97
29) Tetrahydrofuran	7.836	42	45641	47.881	ug/l	98
30) Chloroform	7.965	83	45792	9.596	ug/l	100
31) Cyclohexane	8.253	56	40211	10.020	ug/l #	93
32) 1,1,1-Trichloroethane	8.165	97	39170	9.358	ug/l	99
36) 1,1-Dichloropropene	8.371	75	30015	9.056	ug/l	97
37) Ethyl Acetate	7.559	43	30760	9.195	ug/l	97
38) Carbon Tetrachloride	8.359	117	36015	9.492	ug/l	94
39) Methylcyclohexane	9.594	83	27721	8.900	ug/l	95
40) Benzene	8.600	78	93680	9.407	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085441.D
 Acq On : 14 Jan 2025 16:07
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Jan 15 01:44:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	16859	9.686	ug/l	96
42) 1,2-Dichloroethane	8.665	62	35569	9.483	ug/l	99
43) Isopropyl Acetate	8.683	43	48926	9.127	ug/l	99
44) Trichloroethene	9.347	130	21113	9.108	ug/l	95
45) 1,2-Dichloropropane	9.618	63	22747	8.942	ug/l	97
46) Dibromomethane	9.706	93	17260	9.404	ug/l	99
47) Bromodichloromethane	9.883	83	35020	9.365	ug/l	98
48) Methyl methacrylate	9.677	41	21873	9.067	ug/l	97
49) 1,4-Dioxane	9.694	88	7734	190.382	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	146990	47.254	ug/l	98
52) Toluene	10.630	92	54976	9.527	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	32780	9.276	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	35904	9.512	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	21060	9.222	ug/l	98
56) Ethyl methacrylate	10.871	69	28454	9.042	ug/l	95
57) 1,3-Dichloropropane	11.159	76	37768	9.512	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	63110	43.550	ug/l	98
59) 2-Hexanone	11.194	43	101318	46.291	ug/l	98
60) Dibromochloromethane	11.353	129	25029	9.079	ug/l	98
61) 1,2-Dibromoethane	11.465	107	21055	9.263	ug/l	100
64) Tetrachloroethene	11.100	164	19934	9.928	ug/l	97
65) Chlorobenzene	11.888	112	61680	9.560	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	21853	9.229	ug/l	98
67) Ethyl Benzene	11.959	91	99248	9.445	ug/l	97
68) m/p-Xylenes	12.065	106	72431	18.650	ug/l	99
69) o-Xylene	12.394	106	34382	9.264	ug/l	99
70) Styrene	12.406	104	56285	9.163	ug/l	98
71) Bromoform	12.576	173	16071	9.485	ug/l #	98
73) Isopropylbenzene	12.694	105	87003	9.697	ug/l	99
74) N-amyl acetate	12.494	43	37343	9.260	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	30770	9.709	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	39589	14.675	ug/l	43
77) Bromobenzene	12.976	156	22784	9.720	ug/l	97
78) n-propylbenzene	13.035	91	102262	9.628	ug/l	98
79) 2-Chlorotoluene	13.123	91	68346	9.943	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	71656	9.669	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	9236	9.248	ug/l	100
82) 4-Chlorotoluene	13.218	91	66773	9.756	ug/l	97
83) tert-Butylbenzene	13.435	119	59455	9.553	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	72046	9.754	ug/l	99
85) sec-Butylbenzene	13.612	105	83662	9.699	ug/l	99
86) p-Isopropyltoluene	13.729	119	67556	9.674	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	41843	9.693	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	42728	9.549	ug/l	99
89) n-Butylbenzene	14.053	91	57632	9.314	ug/l	97
90) Hexachloroethane	14.329	117	15261	9.294	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	40726	9.458	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5639	9.744	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	18720	9.354	ug/l	99
94) Hexachlorobutadiene	15.500	225	10491	9.874	ug/l	98
95) Naphthalene	15.635	128	52054	8.717	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	19450	9.605	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085441.D
Acq On : 14 Jan 2025 16:07
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

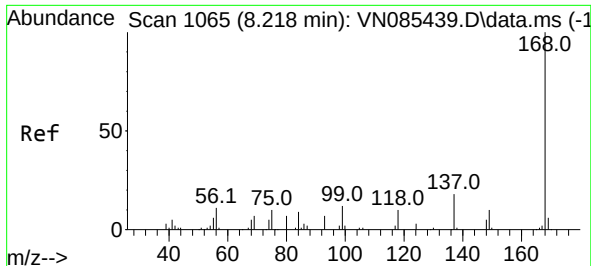
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

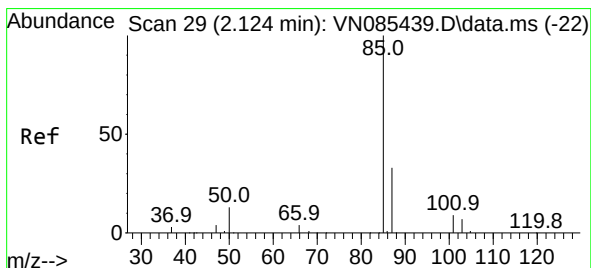
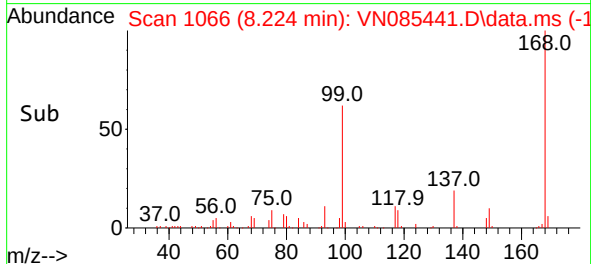
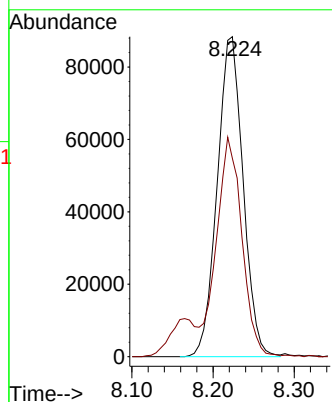
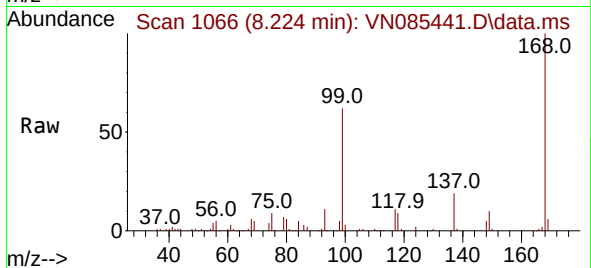
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- 2
- 3
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- 15
- 16
- 17



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

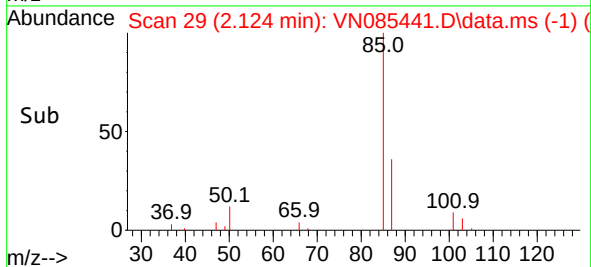
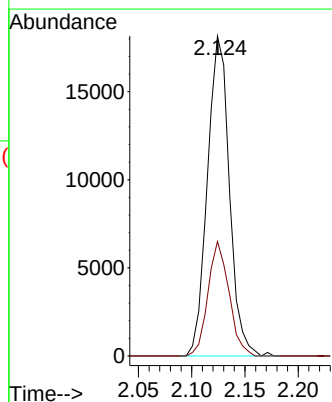
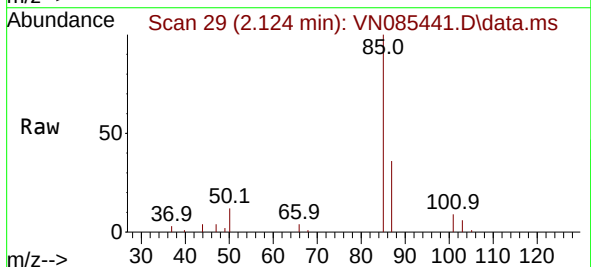
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

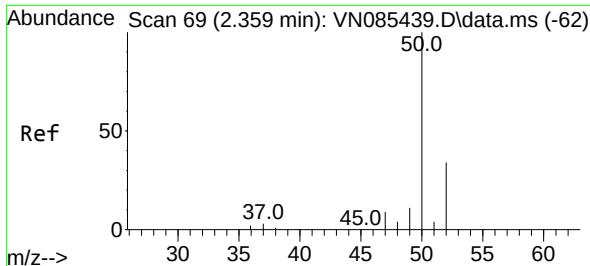
Tgt Ion:168 Resp: 195889
Ion Ratio Lower Upper
168 100
99 61.7 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 9.850 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 85 Resp: 26124
Ion Ratio Lower Upper
85 100
87 35.8 16.7 50.1

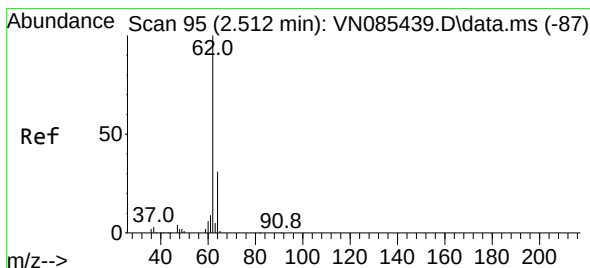
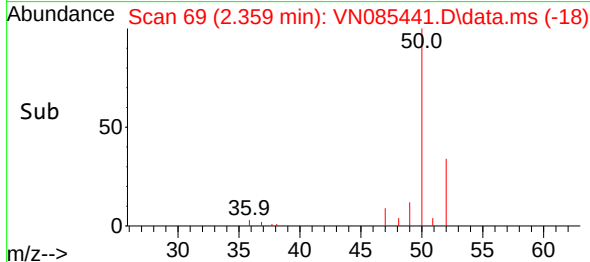
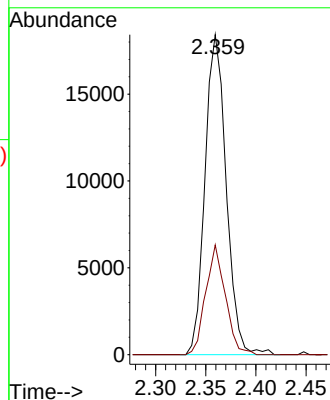
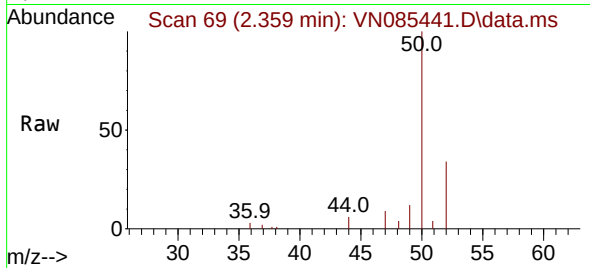




#3
Chloromethane
Concen: 9.452 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

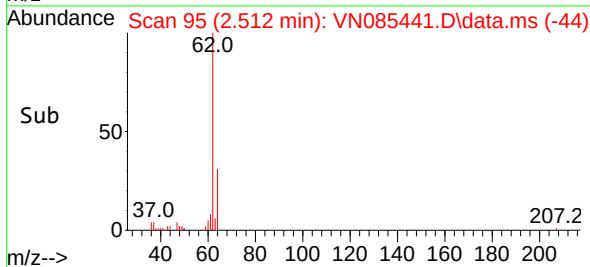
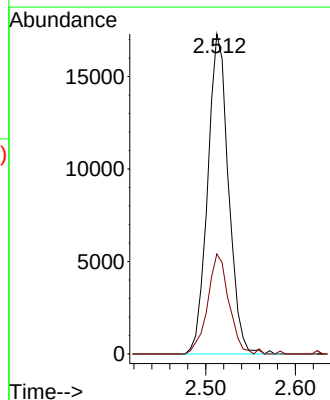
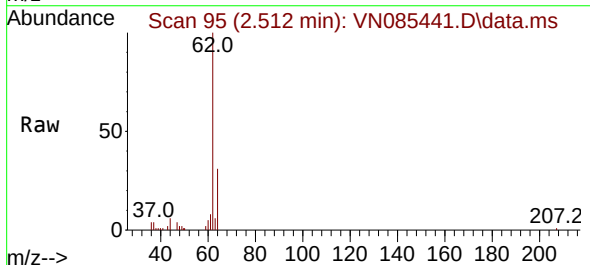
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

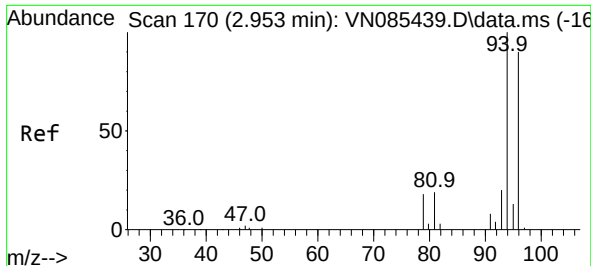
Tgt Ion: 50 Resp: 27143
Ion Ratio Lower Upper
50 100
52 34.3 27.0 40.6



#4
Vinyl Chloride
Concen: 9.653 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 62 Resp: 27862
Ion Ratio Lower Upper
62 100
64 31.2 24.8 37.2

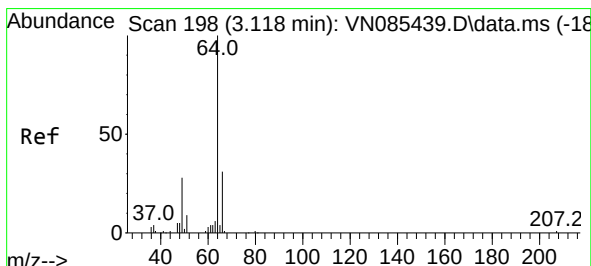
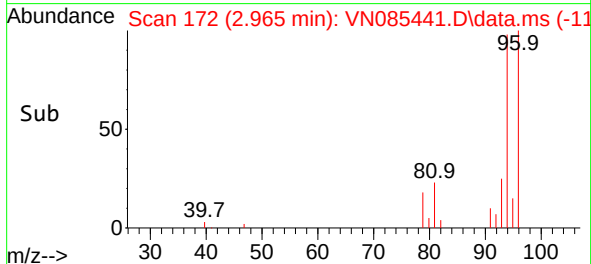
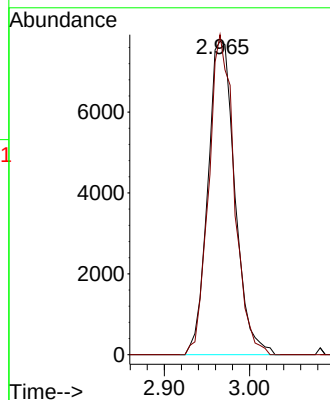
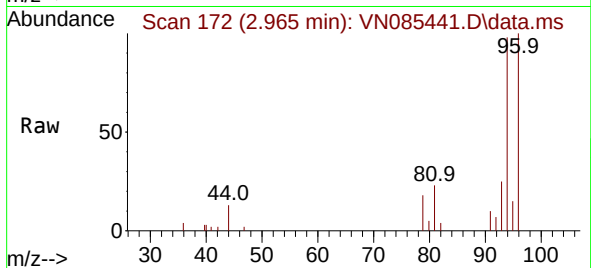




#5
Bromomethane
Concen: 9.830 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

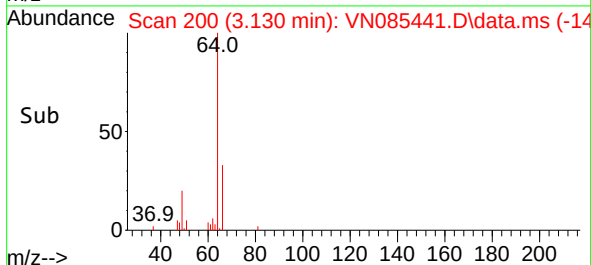
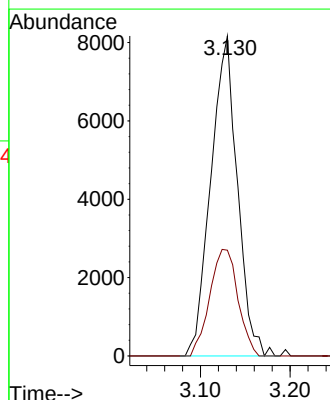
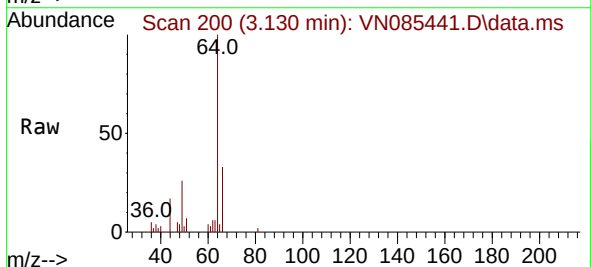
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

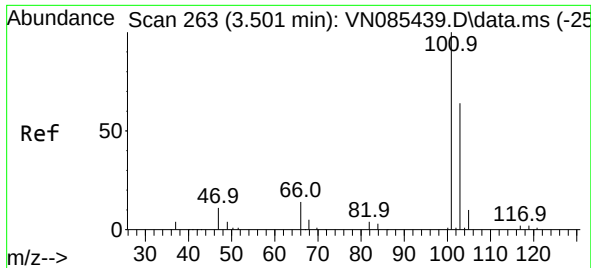
Tgt Ion: 94 Resp: 17139
Ion Ratio Lower Upper
94 100
96 102.1 71.8 107.6



#6
Chloroethane
Concen: 9.175 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 64 Resp: 16791
Ion Ratio Lower Upper
64 100
66 33.1 24.6 36.8

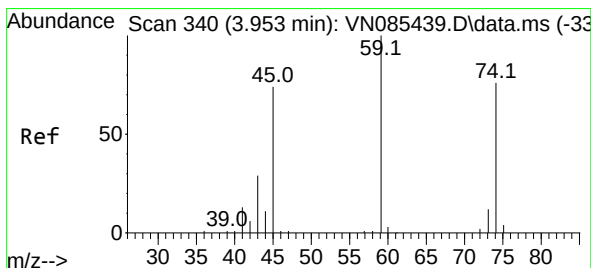
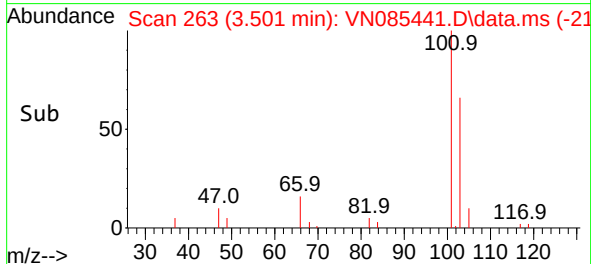
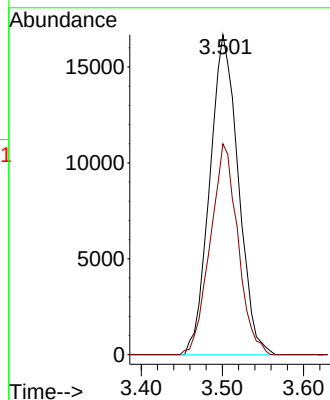
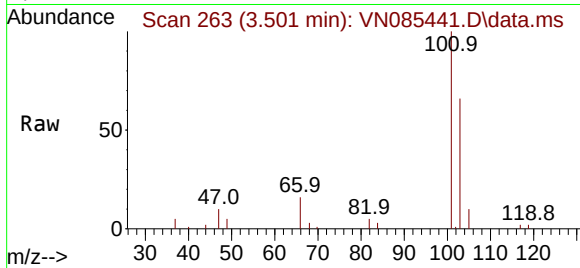




#7
 Trichlorofluoromethane
 Concen: 9.731 ug/l
 RT: 3.501 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

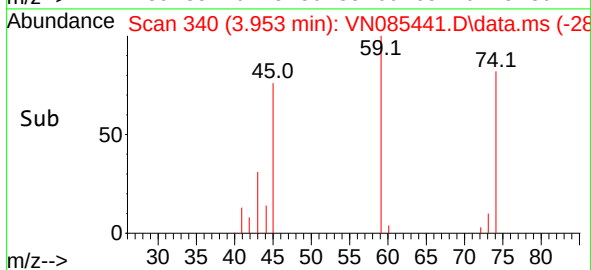
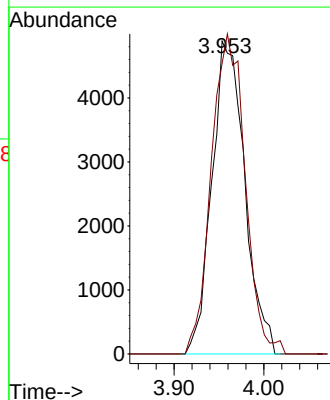
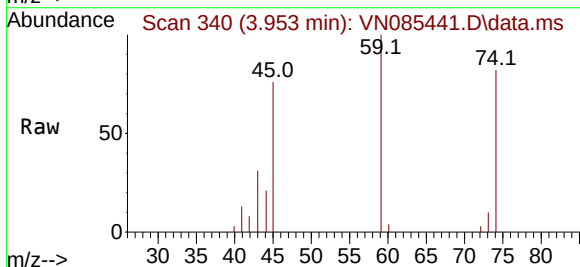
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

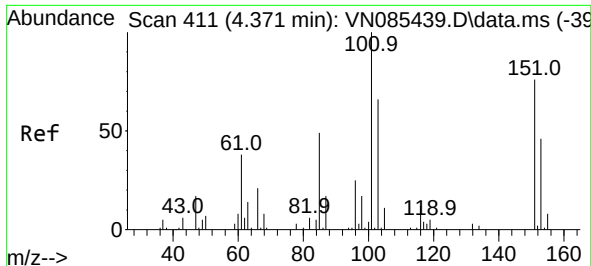
Tgt Ion:101 Resp: 40755
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.4 77.2



#8
 Diethyl Ether
 Concen: 8.581 ug/l
 RT: 3.953 min Scan# 340
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion: 74 Resp: 12415
 Ion Ratio Lower Upper
 74 100
 45 105.3 49.7 149.1

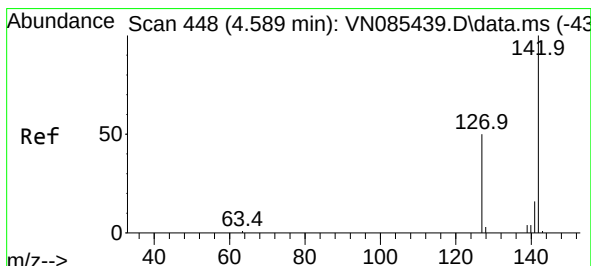
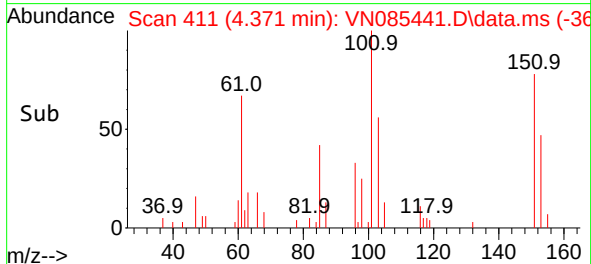
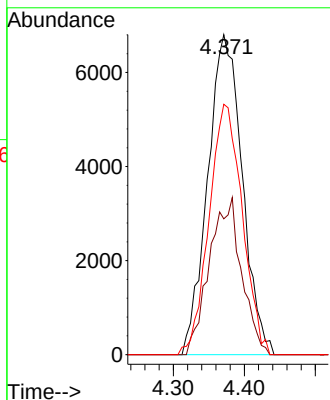
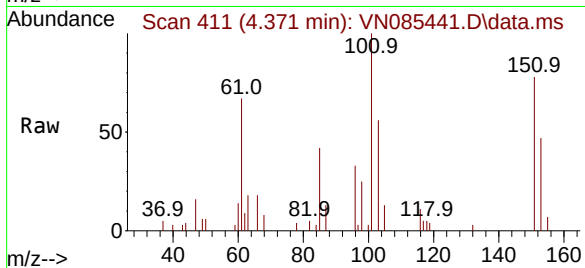




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.742 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

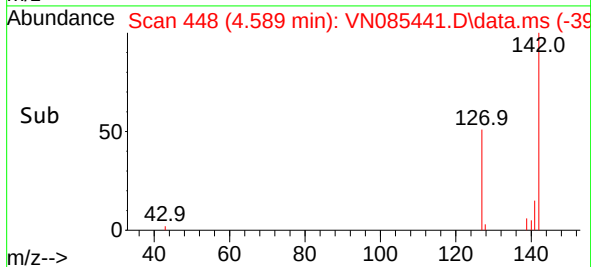
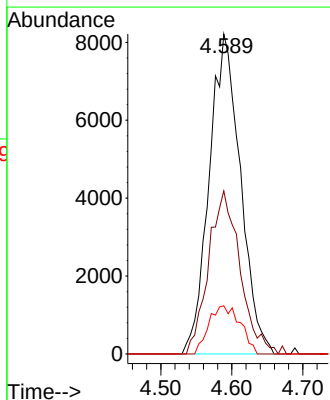
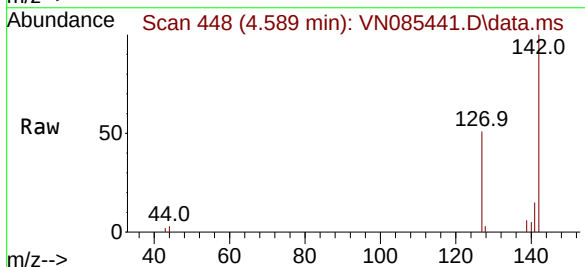
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

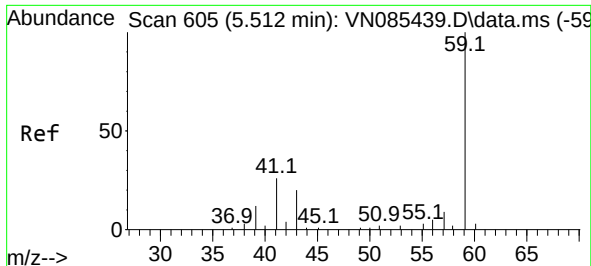
Tgt Ion:	101	Resp:	22982
Ion	Ratio	Lower	Upper
101	100		
85	45.8	37.8	56.8
151	75.2	58.8	88.2



#10
 Methyl Iodide
 Concen: 9.286 ug/l
 RT: 4.589 min Scan# 448
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion:	142	Resp:	25085
Ion	Ratio	Lower	Upper
142	100		
127	50.9	40.3	60.5
141	15.0	12.8	19.2

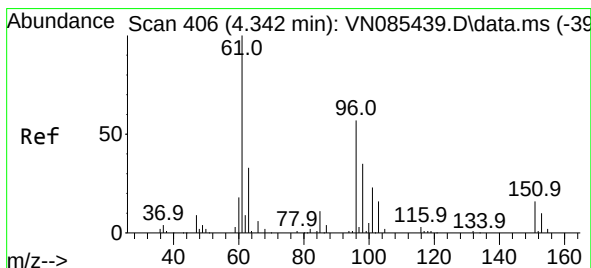
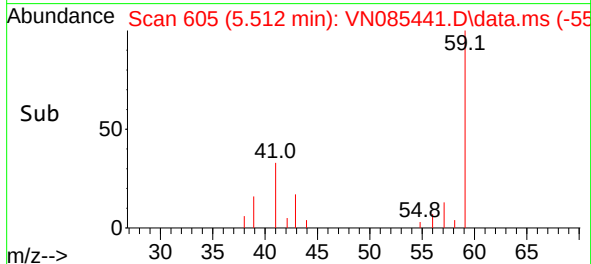
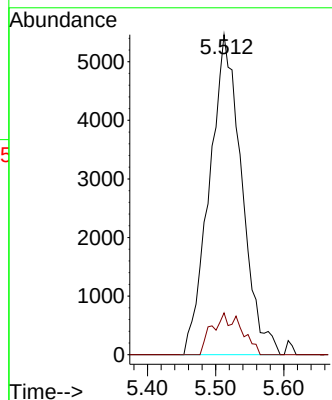
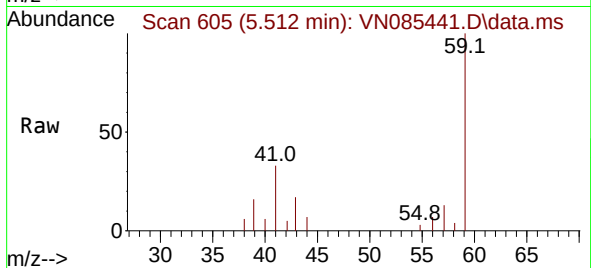




#11
Tert butyl alcohol
Concen: 49.608 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

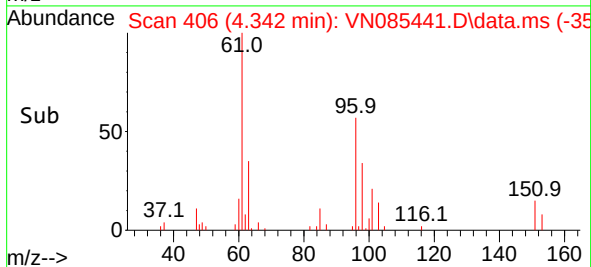
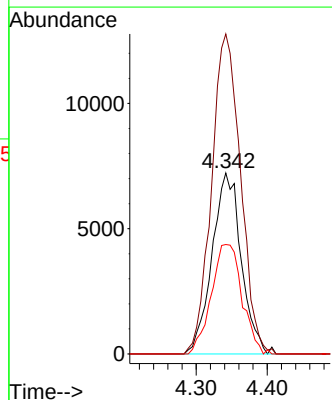
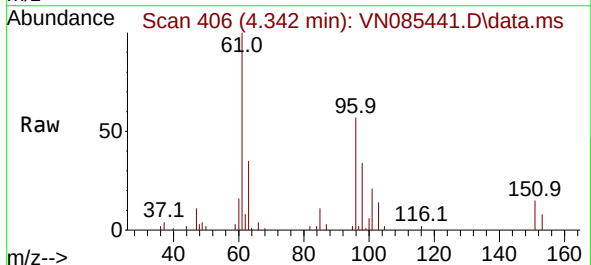
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

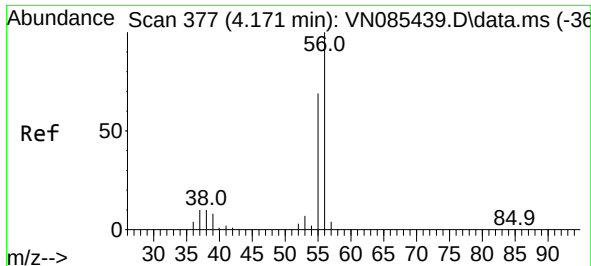
Tgt Ion: 59 Resp: 17962
Ion Ratio Lower Upper
59 100
57 11.9 8.6 13.0



#12
1,1-Dichloroethene
Concen: 9.806 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 96 Resp: 20615
Ion Ratio Lower Upper
96 100
61 176.8 141.0 211.4
98 60.5 49.0 73.6

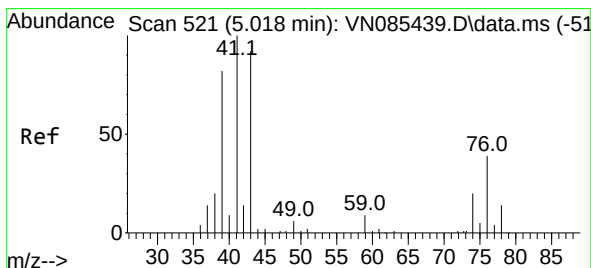
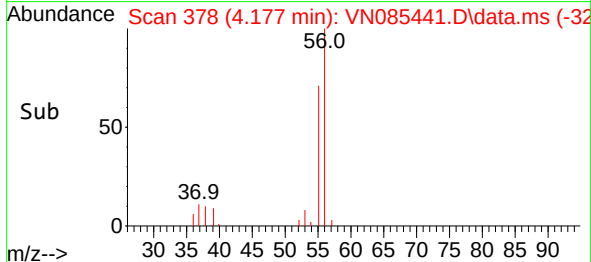
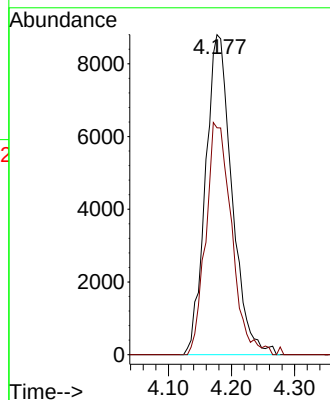
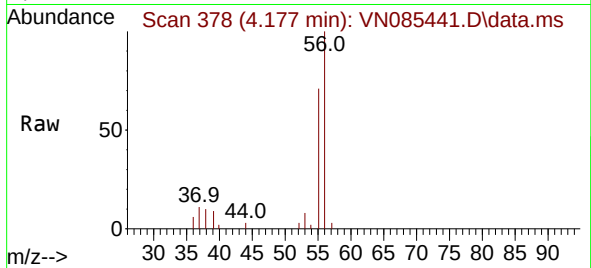




#13
Acrolein
Concen: 51.729 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

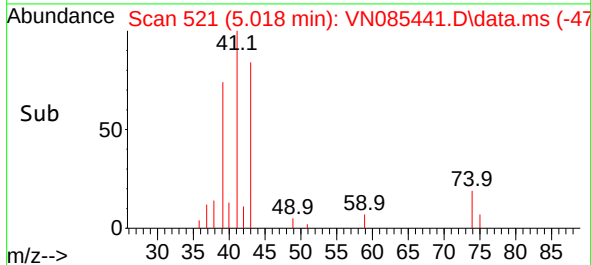
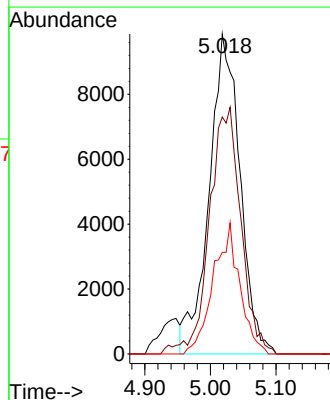
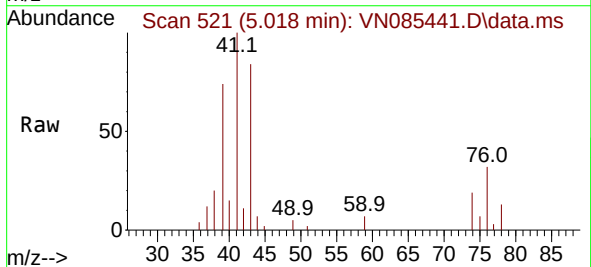
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

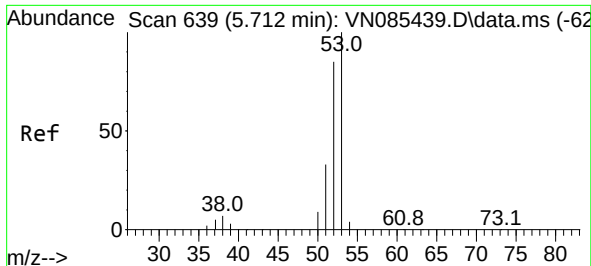
Tgt Ion: 56 Resp: 25568
Ion Ratio Lower Upper
56 100
55 70.9 56.3 84.5



#14
Allyl chloride
Concen: 9.451 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 32240
Ion Ratio Lower Upper
41 100
39 78.3 64.4 96.6
76 35.1 30.5 45.7

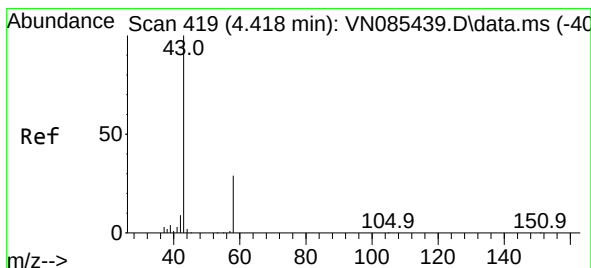
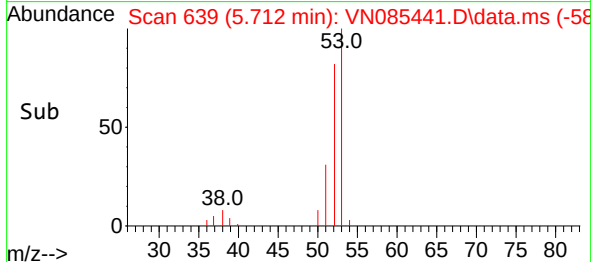
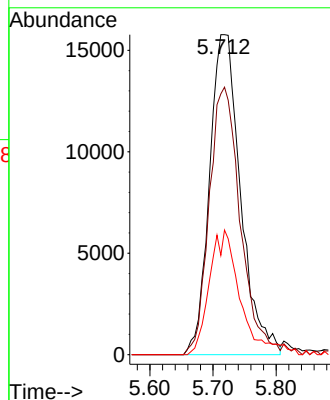
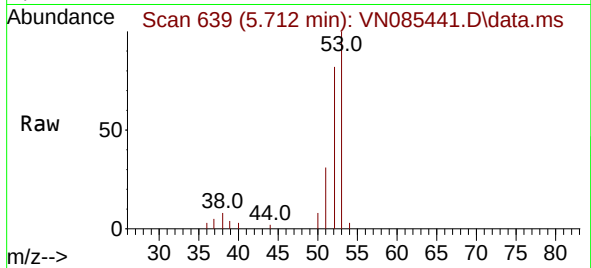




#15
Acrylonitrile
Concen: 46.918 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

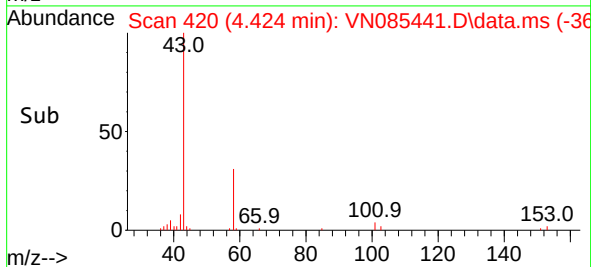
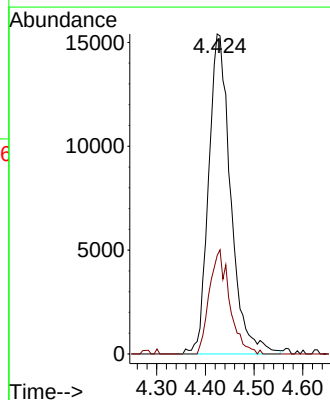
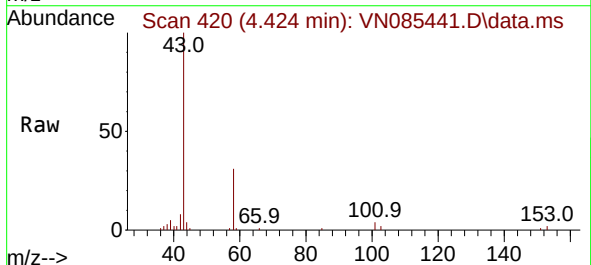
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

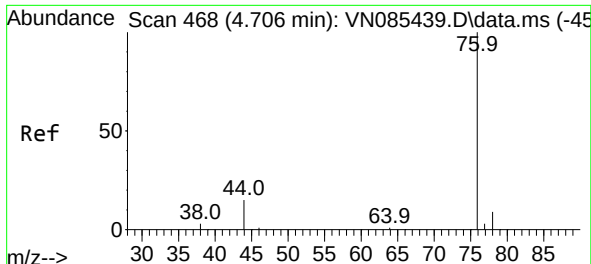
Tgt Ion:	53	Resp:	53959
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.5	98.3
51	38.8	29.8	44.8



#16
Acetone
Concen: 47.446 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:	43	Resp:	48475
Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.8	35.6

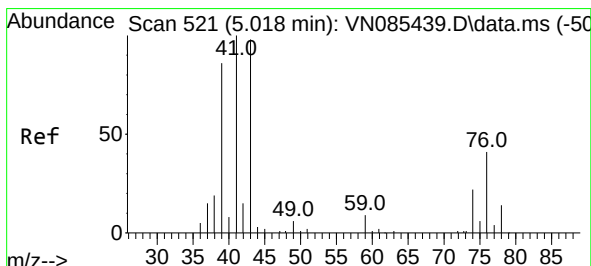
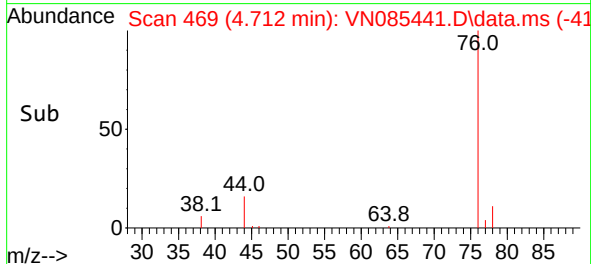
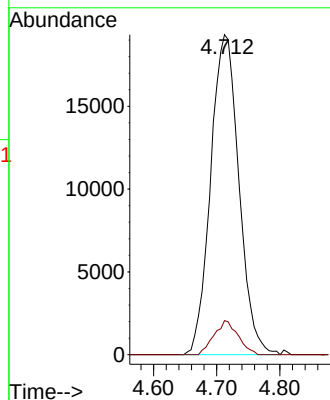
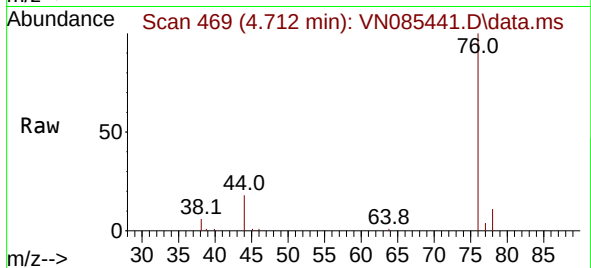




#17
Carbon Disulfide
Concen: 9.300 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

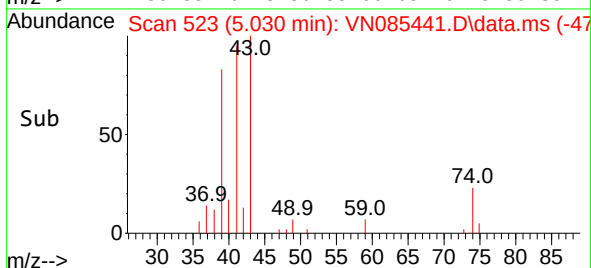
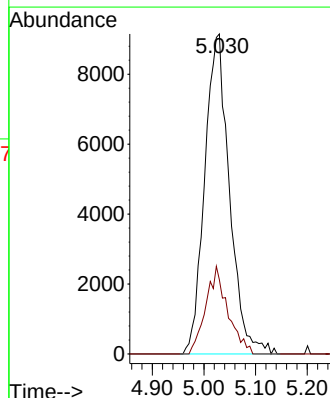
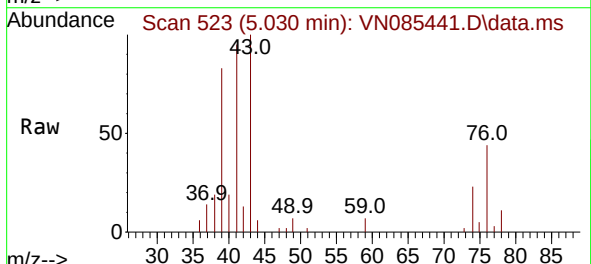
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

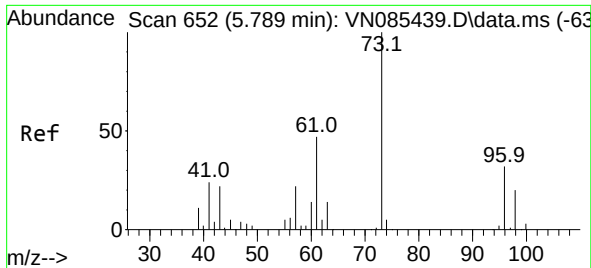
Tgt Ion: 76 Resp: 60201
Ion Ratio Lower Upper
76 100
78 10.7 6.9 10.3#



#18
Methyl Acetate
Concen: 9.817 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 30500
Ion Ratio Lower Upper
43 100
74 24.3 18.6 28.0

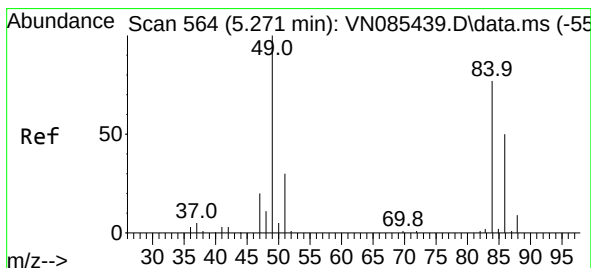
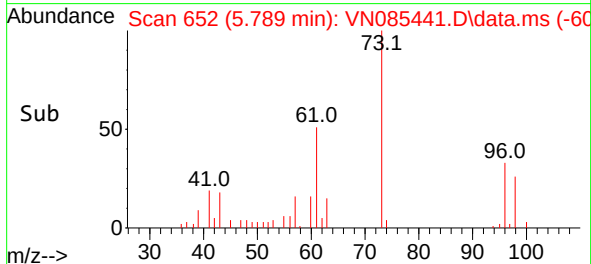
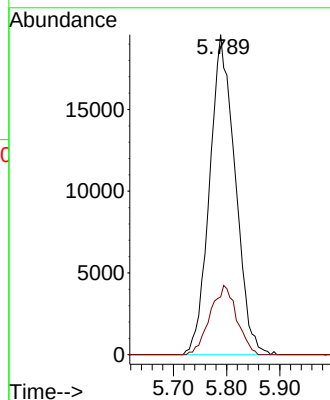
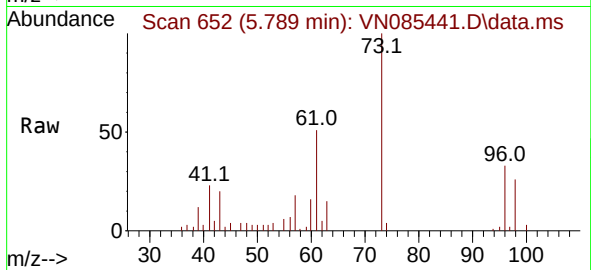




#19
Methyl tert-butyl Ether
Concen: 9.552 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

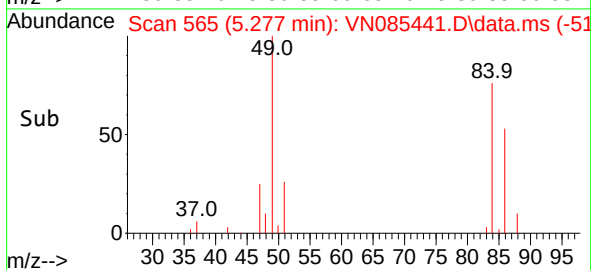
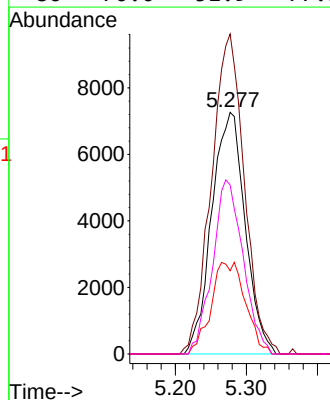
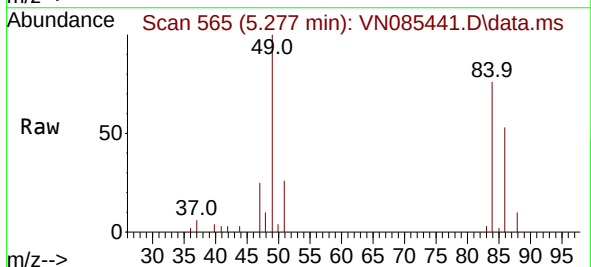
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

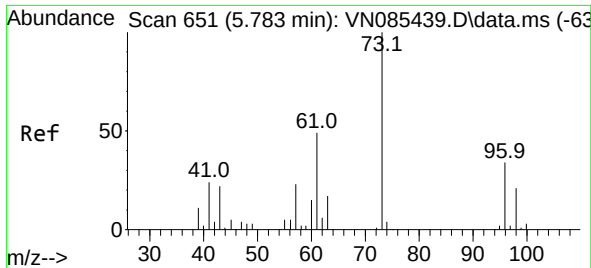
Tgt Ion: 73 Resp: 65207
Ion Ratio Lower Upper
73 100
57 18.1 17.8 26.8



#20
Methylene Chloride
Concen: 9.379 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 84 Resp: 23723
Ion Ratio Lower Upper
84 100
49 132.4 104.1 156.1
51 34.4 31.0 46.4
86 70.0 51.9 77.9

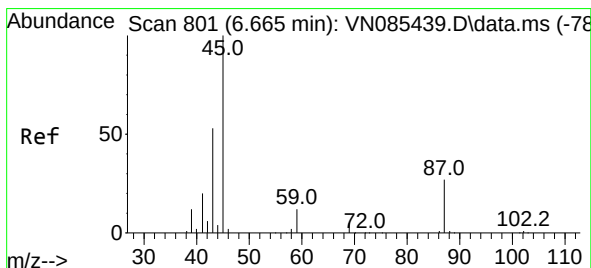
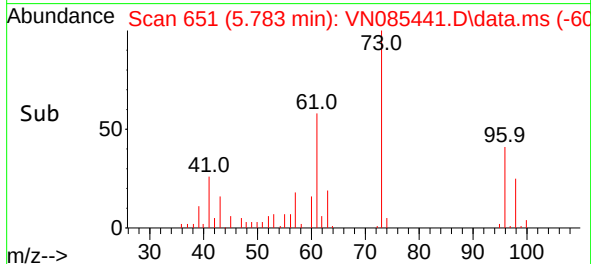
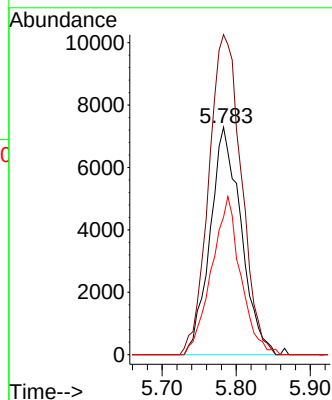
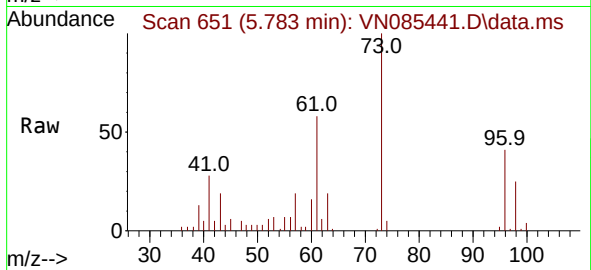




#21
trans-1,2-Dichloroethene
Concen: 9.403 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

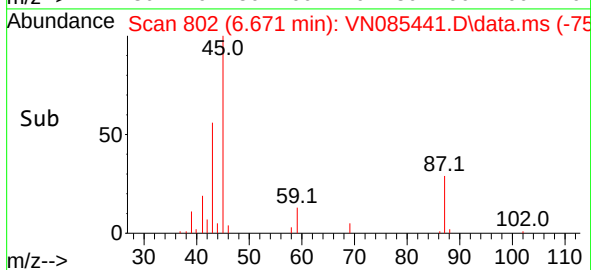
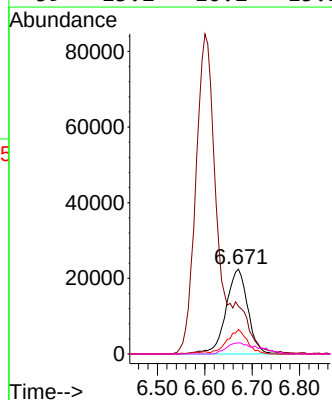
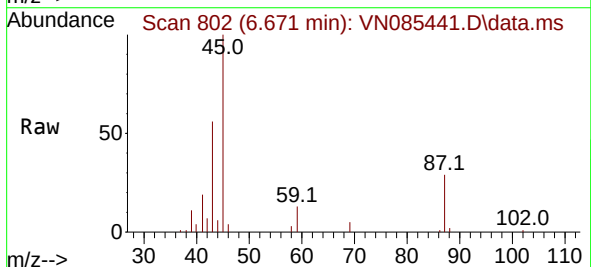
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

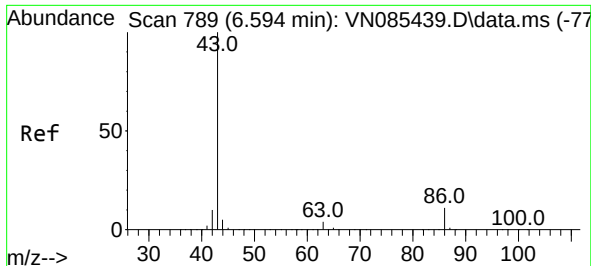
Tgt Ion: 96 Resp: 21127
Ion Ratio Lower Upper
96 100
61 140.8 115.7 173.5
98 60.5 49.8 74.8



#22
Diisopropyl ether
Concen: 9.490 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 45 Resp: 71857
Ion Ratio Lower Upper
45 100
43 53.2 45.0 67.6
87 28.8 21.8 32.8
59 13.2 10.2 15.2

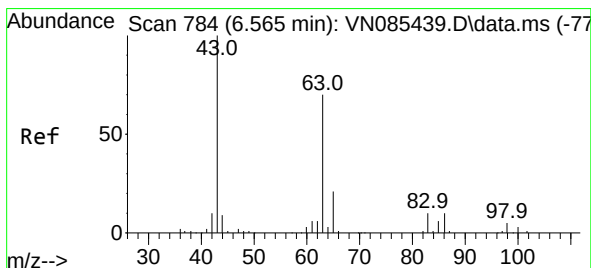
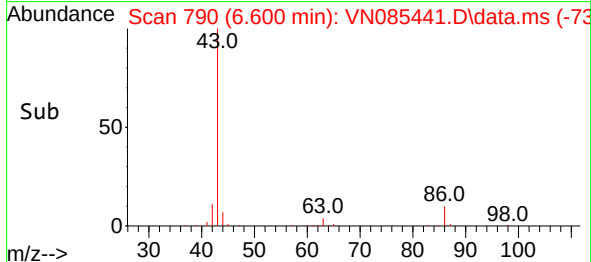
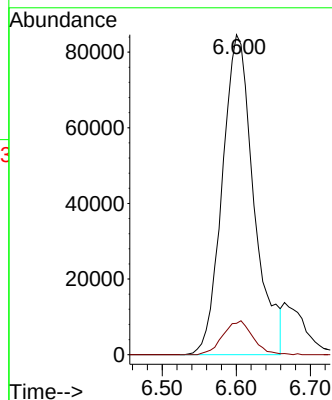
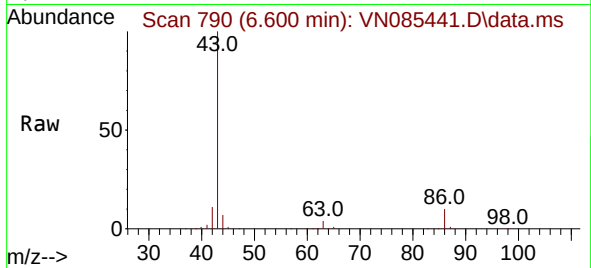




#23
 Vinyl Acetate
 Concen: 47.125 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

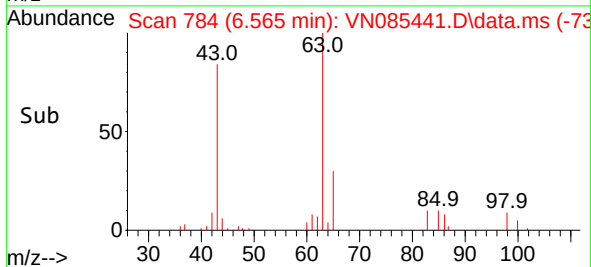
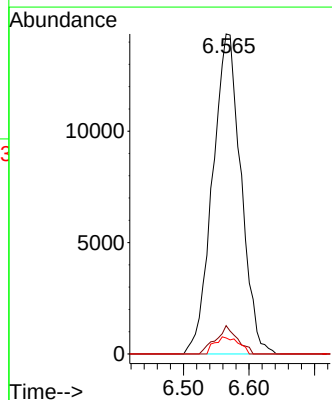
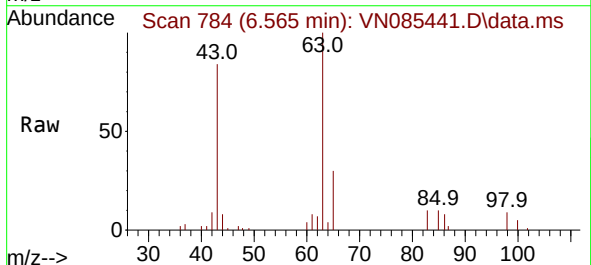
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

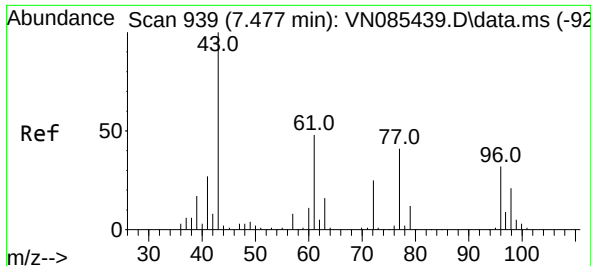
Tgt Ion: 43 Resp: 250575
 Ion Ratio Lower Upper
 43 100
 86 9.8 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 9.335 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion: 63 Resp: 43099
 Ion Ratio Lower Upper
 63 100
 98 8.8 3.3 9.8
 100 5.0 2.0 6.0

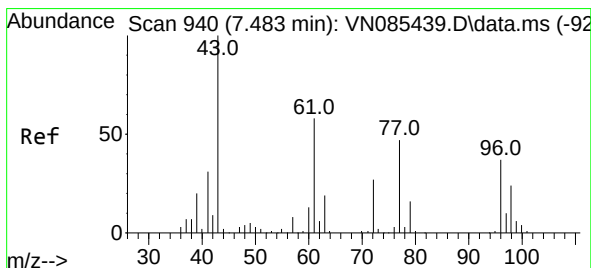
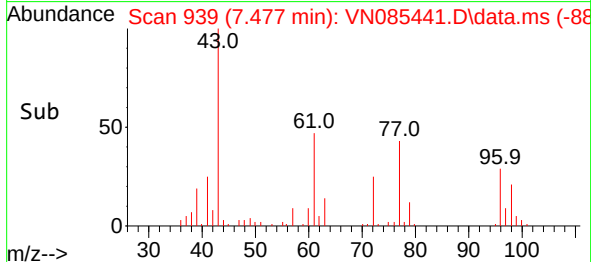
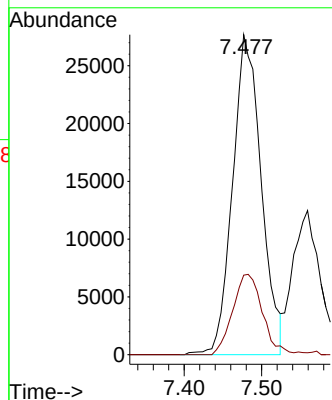
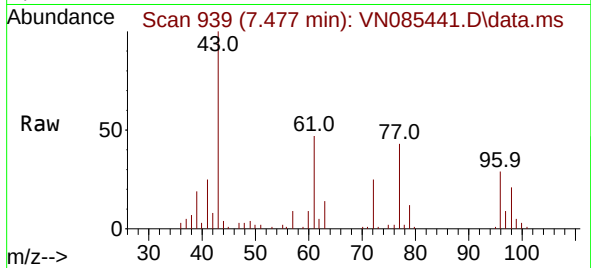




#25
2-Butanone
Concen: 47.350 ug/l
RT: 7.477 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

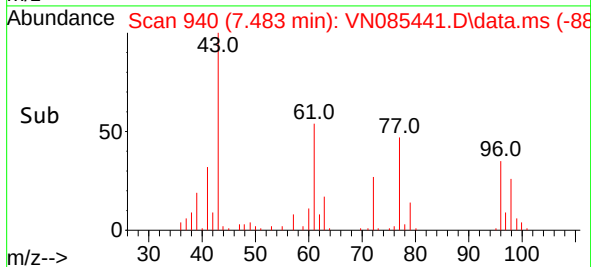
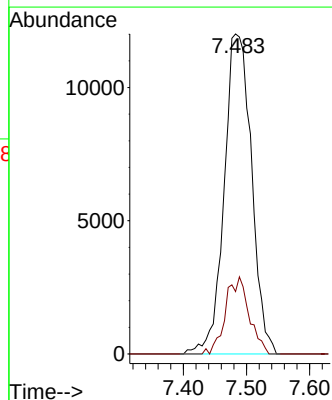
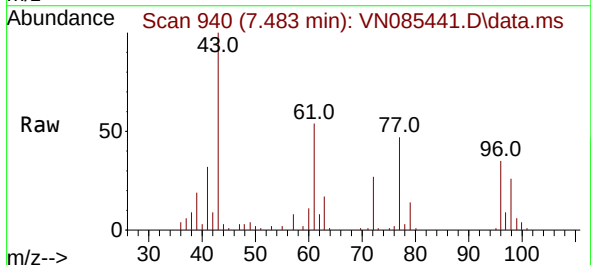
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

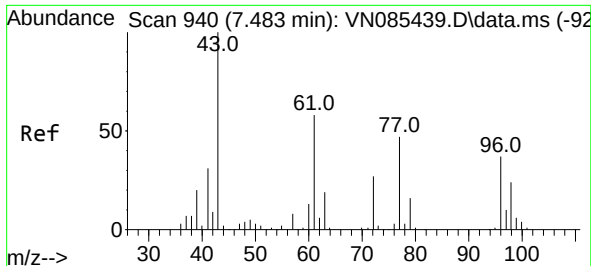
Tgt Ion: 43 Resp: 71191
Ion Ratio Lower Upper
43 100
72 24.8 20.2 30.4



#26
2,2-Dichloropropane
Concen: 9.672 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 77 Resp: 36105
Ion Ratio Lower Upper
77 100
97 20.8 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 9.466 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

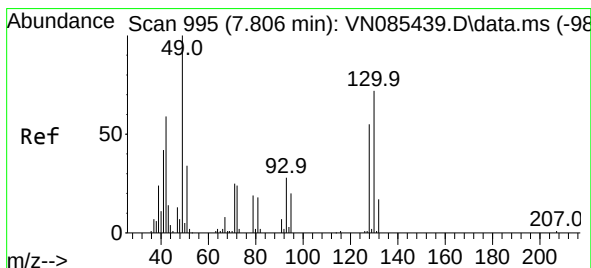
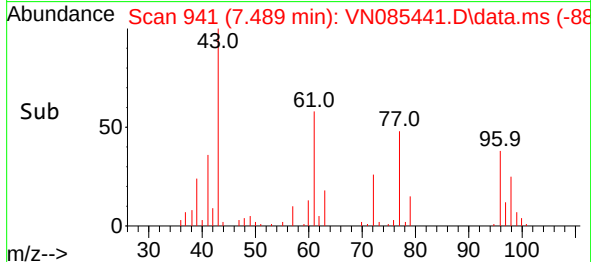
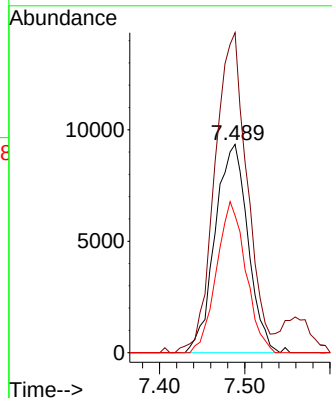
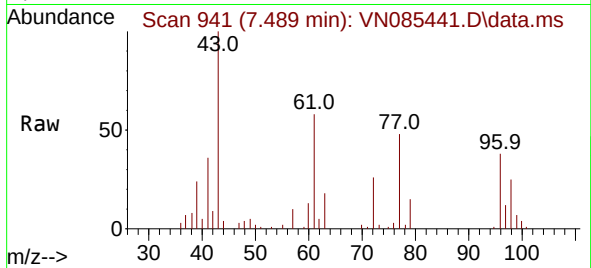
Tgt Ion: 96 Resp: 25049

Ion Ratio Lower Upper

96 100

61 151.8 0.0 311.8

98 64.7 0.0 126.0



#28

Bromochloromethane

Concen: 8.863 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

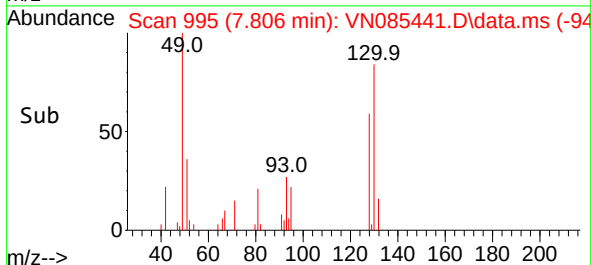
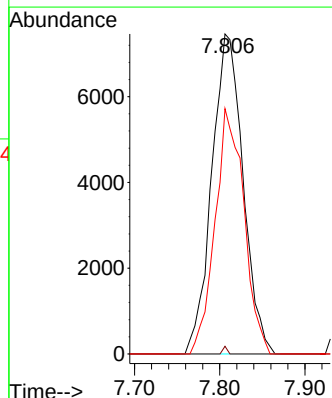
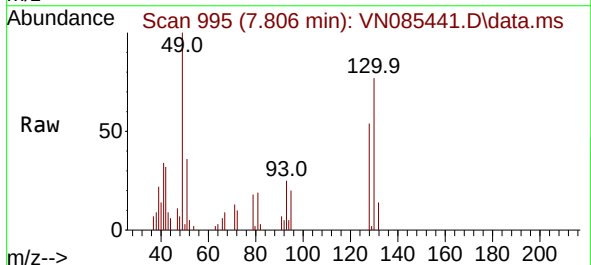
Tgt Ion: 49 Resp: 19037

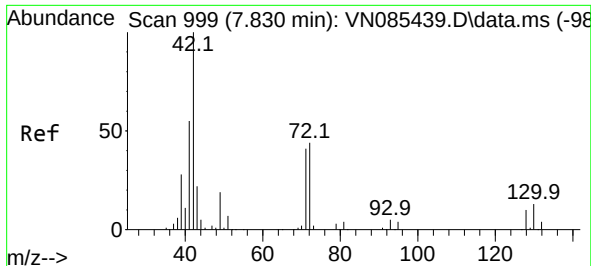
Ion Ratio Lower Upper

49 100

129 0.3 0.0 4.4

130 70.8 55.0 82.4





#29

Tetrahydrofuran

Concen: 47.881 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

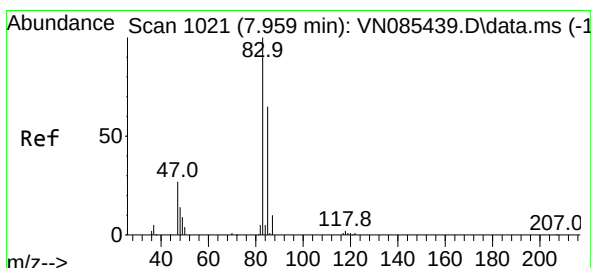
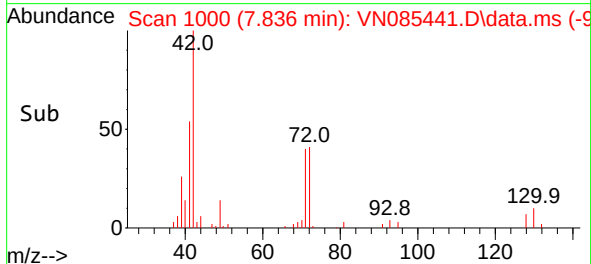
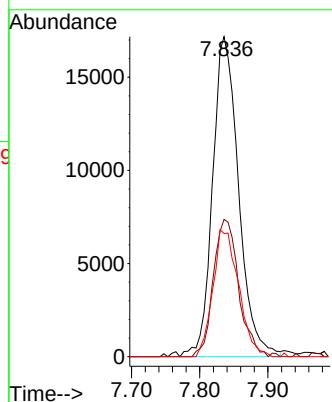
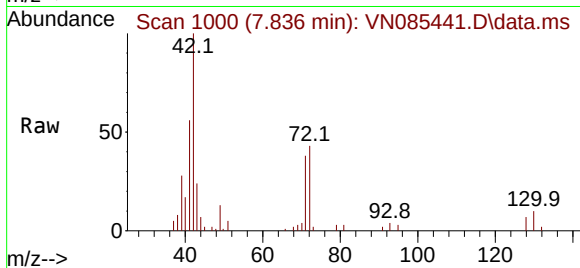
Tgt Ion: 42 Resp: 45641

Ion Ratio Lower Upper

42 100

72 41.6 34.2 51.2

71 39.2 32.5 48.7



#30

Chloroform

Concen: 9.596 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085441.D

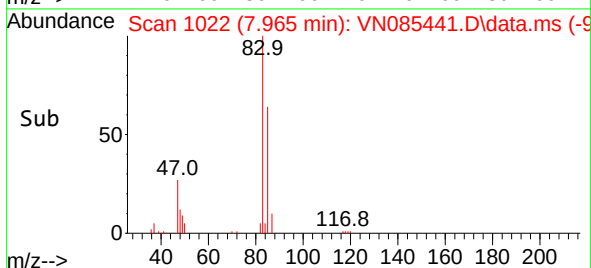
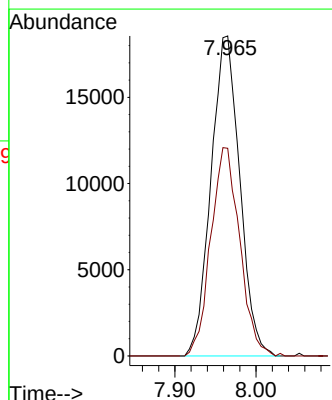
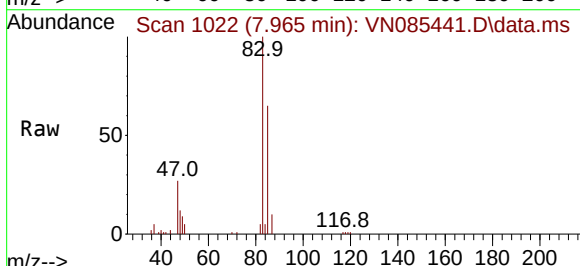
Acq: 14 Jan 2025 16:07

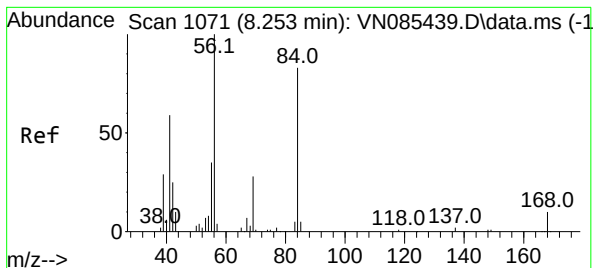
Tgt Ion: 83 Resp: 45792

Ion Ratio Lower Upper

83 100

85 64.9 51.8 77.6





#31

Cyclohexane

Concen: 10.020 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

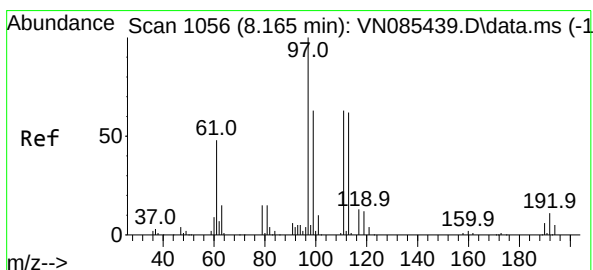
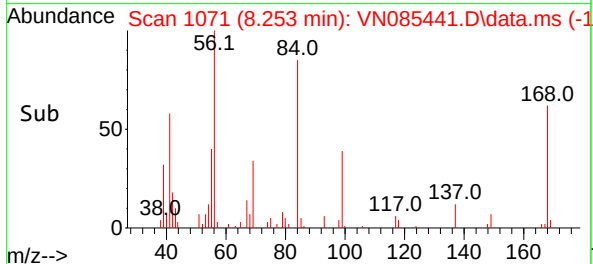
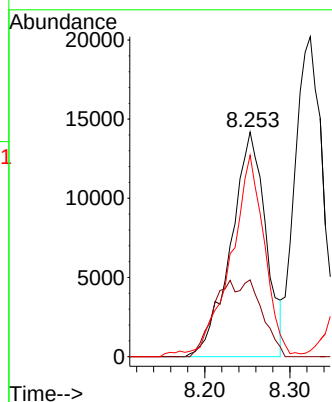
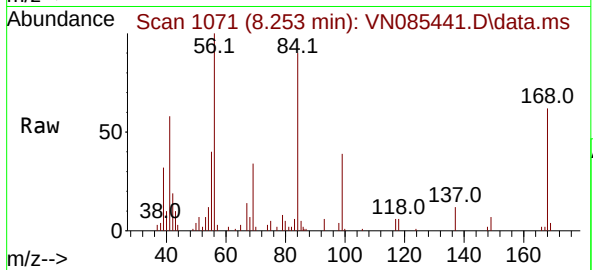
Tgt Ion: 56 Resp: 40211

Ion Ratio Lower Upper

56 100

69 34.2 22.2 33.4#

84 87.2 66.4 99.6



#32

1,1,1-Trichloroethane

Concen: 9.358 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

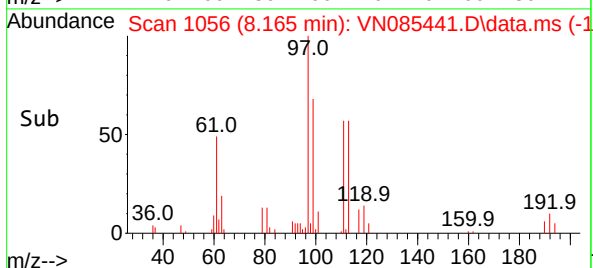
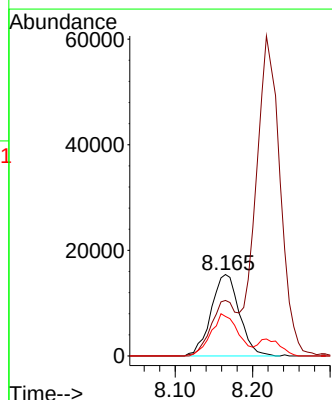
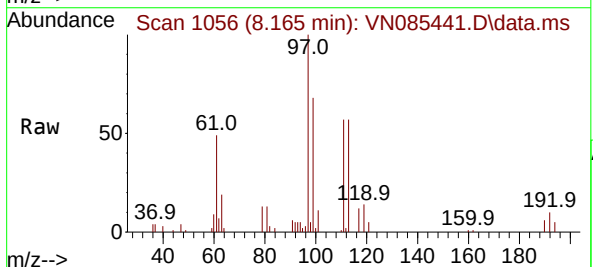
Tgt Ion: 97 Resp: 39170

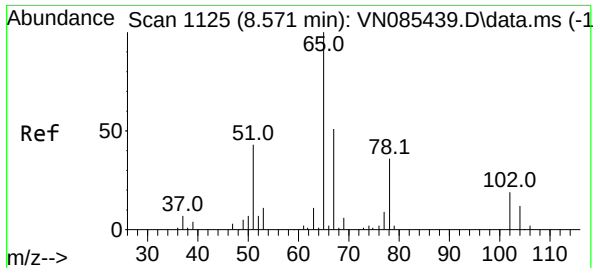
Ion Ratio Lower Upper

97 100

99 62.6 49.8 74.6

61 50.2 41.4 62.2

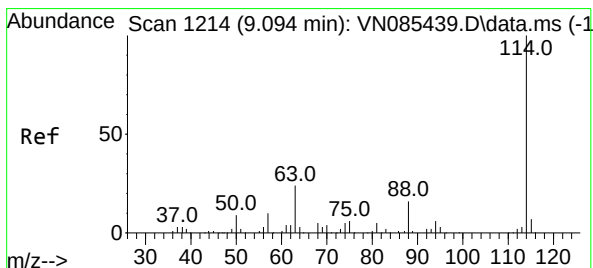
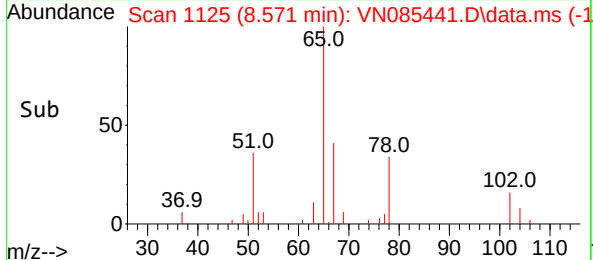
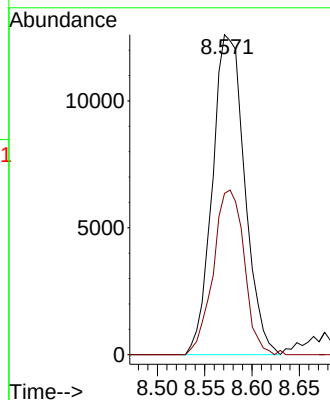
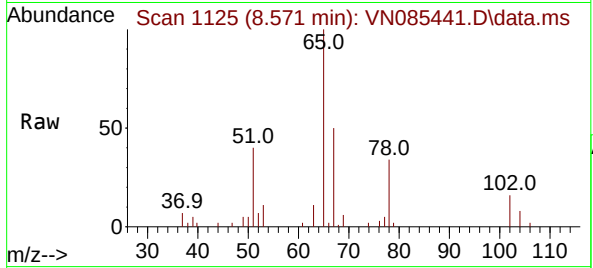




#33
 1,2-Dichloroethane-d4
 Concen: 9.442 ug/l
 RT: 8.571 min Scan# 1125
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

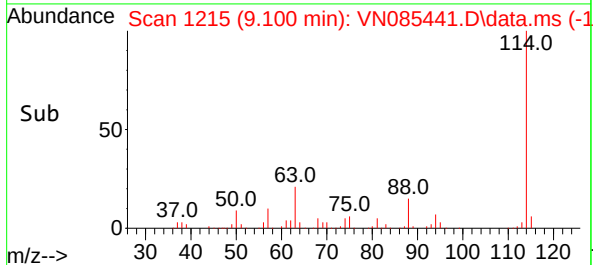
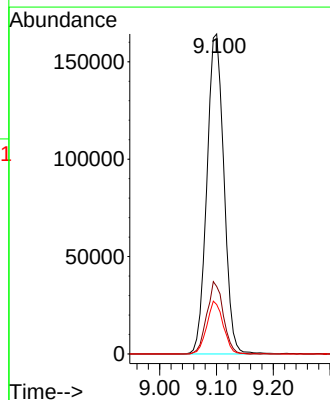
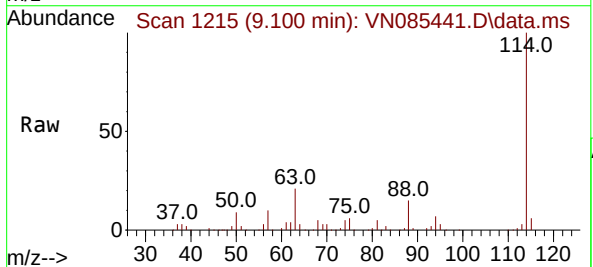
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

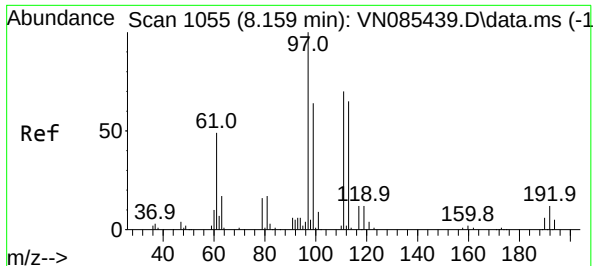
Tgt Ion: 65 Resp: 29856
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.006 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion: 114 Resp: 340403
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 47.6
 88 15.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 8.939 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

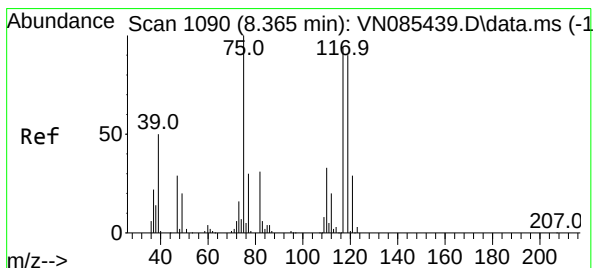
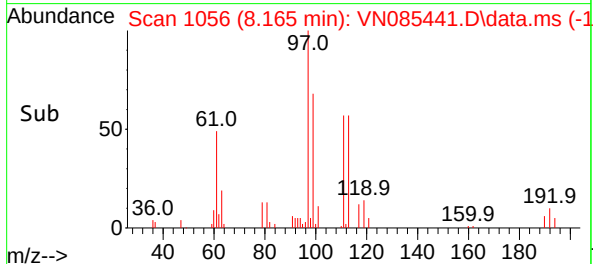
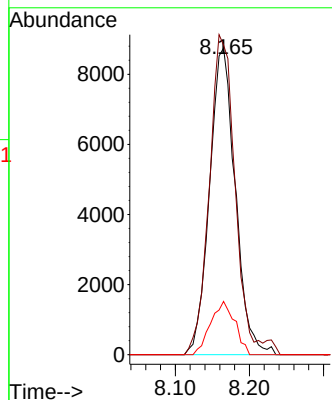
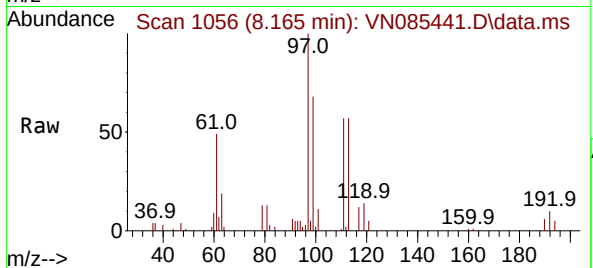
Tgt Ion:113 Resp: 21110

Ion Ratio Lower Upper

113 100

111 103.4 82.7 124.1

192 16.4 14.3 21.5



#36

1,1-Dichloropropene

Concen: 9.056 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

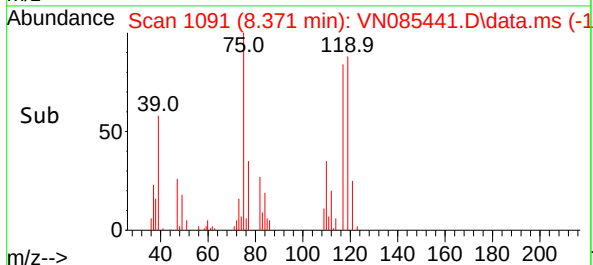
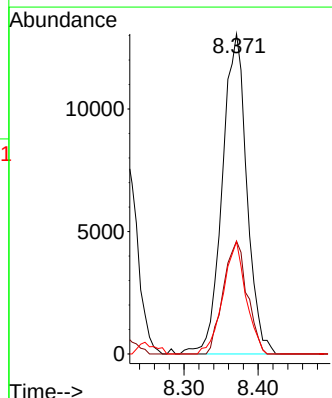
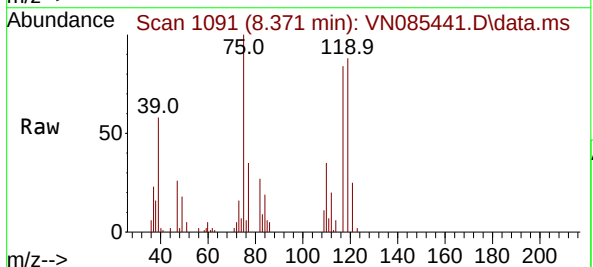
Tgt Ion: 75 Resp: 30015

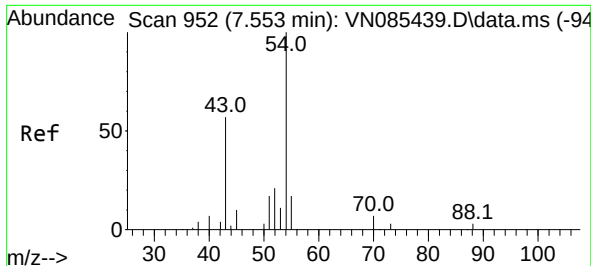
Ion Ratio Lower Upper

75 100

110 34.3 16.5 49.5

77 32.9 24.4 36.6





#37

Ethyl Acetate

Concen: 9.195 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

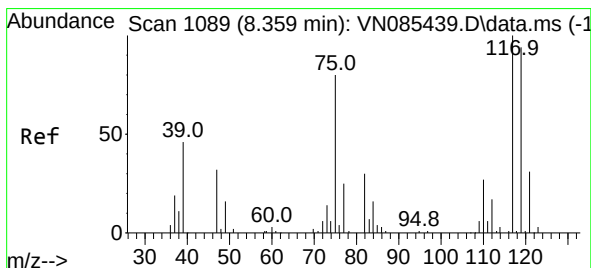
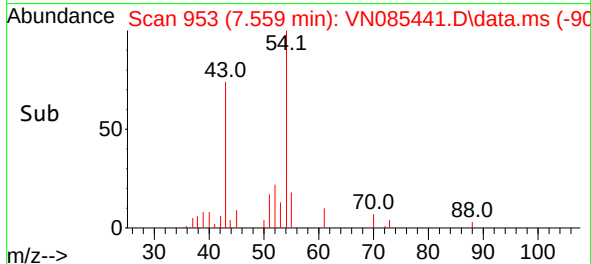
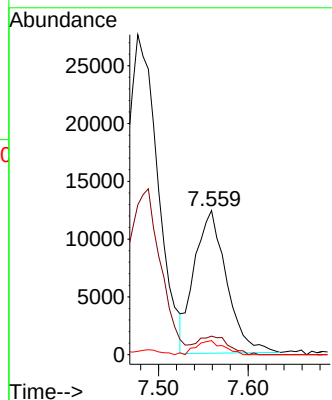
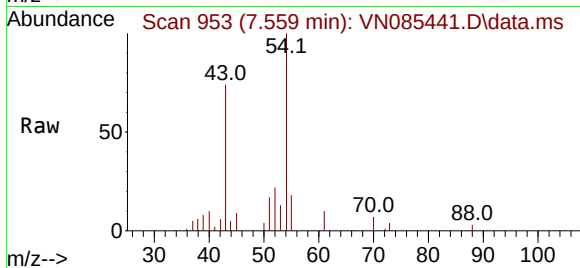
Tgt Ion: 43 Resp: 30760

Ion Ratio Lower Upper

43 100

61 12.2 10.9 16.3

70 8.4 7.5 11.3



#38

Carbon Tetrachloride

Concen: 9.492 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

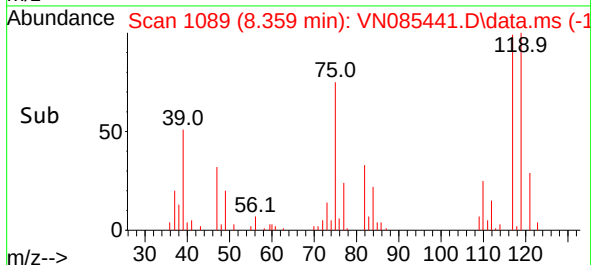
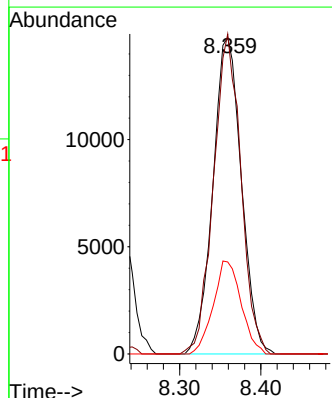
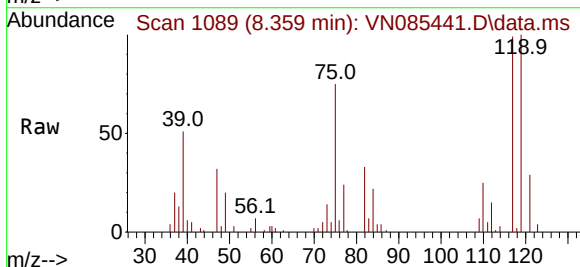
Tgt Ion: 117 Resp: 36015

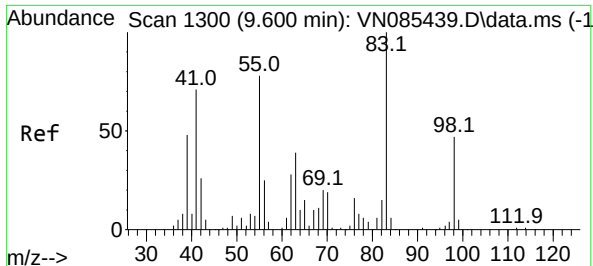
Ion Ratio Lower Upper

117 100

119 101.2 75.4 113.2

121 29.1 24.6 37.0





#39

Methylcyclohexane

Concen: 8.900 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

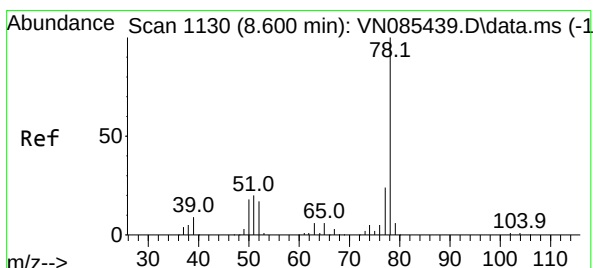
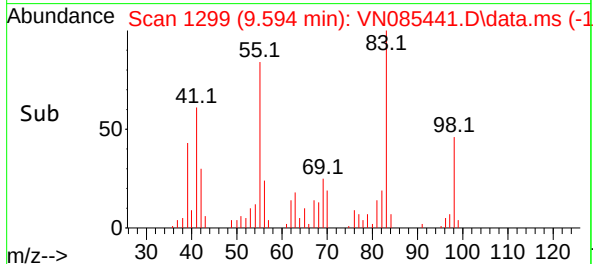
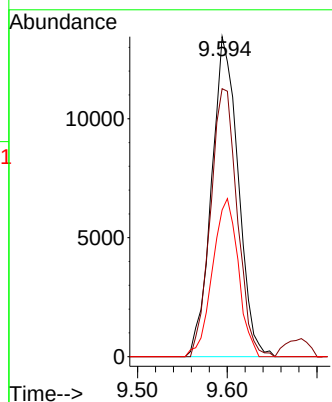
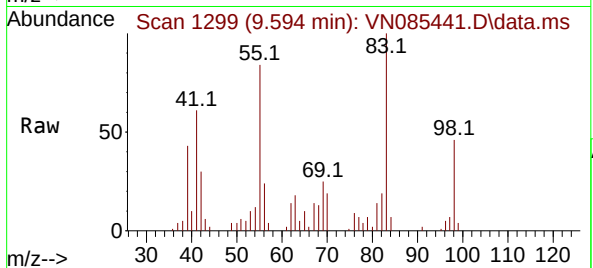
Tgt Ion: 83 Resp: 27721

Ion Ratio Lower Upper

83 100

55 83.8 62.6 94.0

98 45.8 37.7 56.5



#40

Benzene

Concen: 9.407 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085441.D

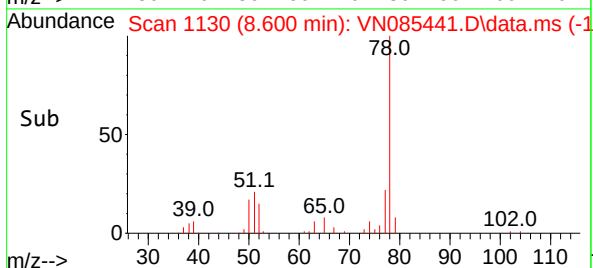
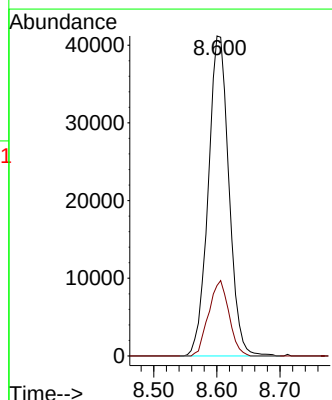
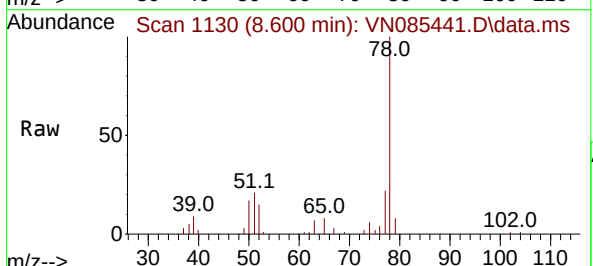
Acq: 14 Jan 2025 16:07

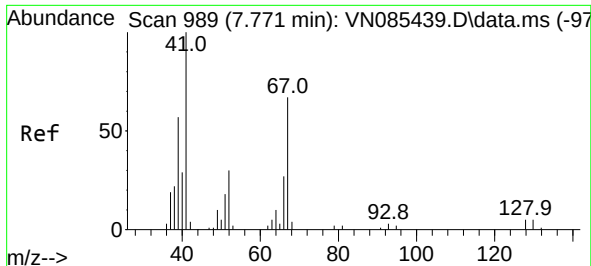
Tgt Ion: 78 Resp: 93680

Ion Ratio Lower Upper

78 100

77 22.0 19.0 28.6

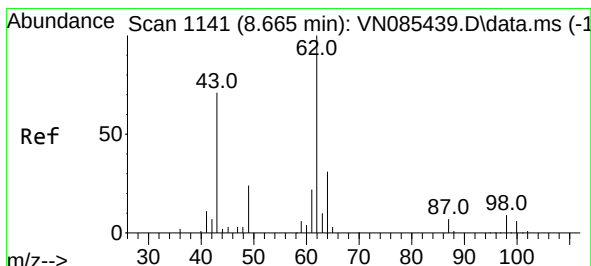
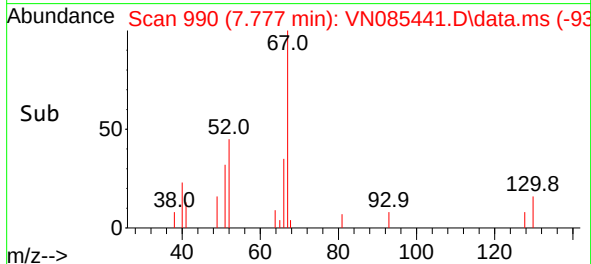
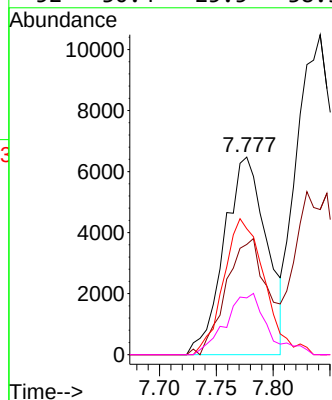
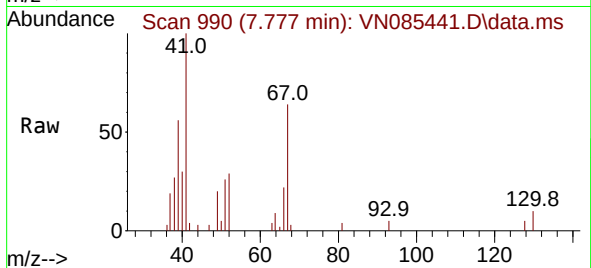




#41
Methacrylonitrile
Concen: 9.686 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

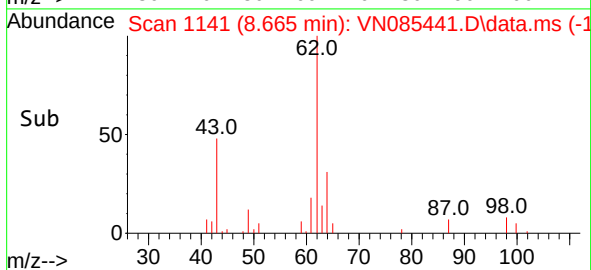
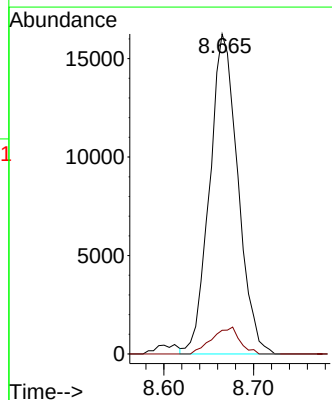
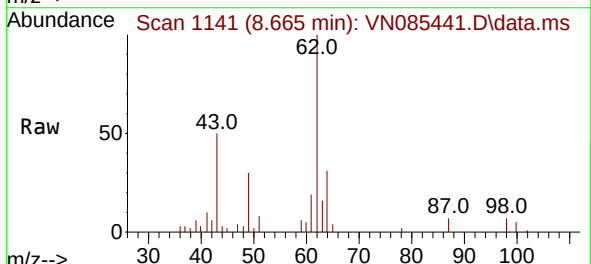
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

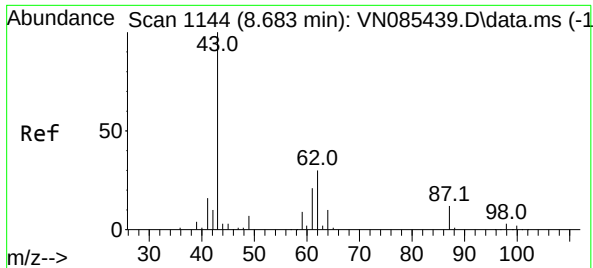
Tgt Ion:	41	Resp:	16859
Ion	Ratio	Lower	Upper
41	100		
39	57.3	46.0	69.0
67	66.2	57.4	86.2
52	30.4	25.5	38.3



#42
1,2-Dichloroethane
Concen: 9.483 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:	62	Resp:	35569
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.0

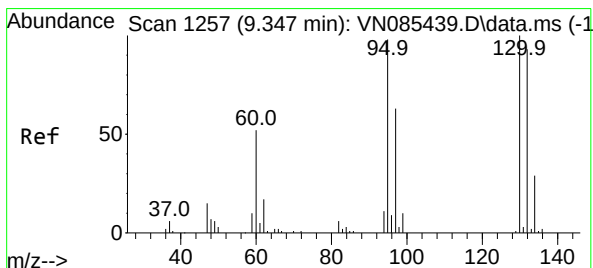
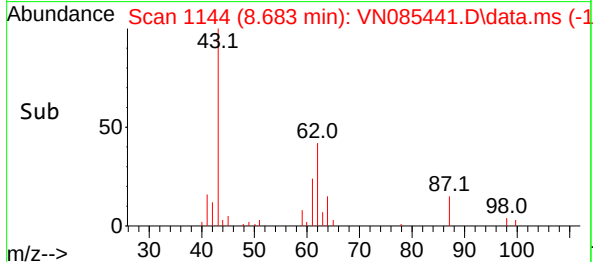
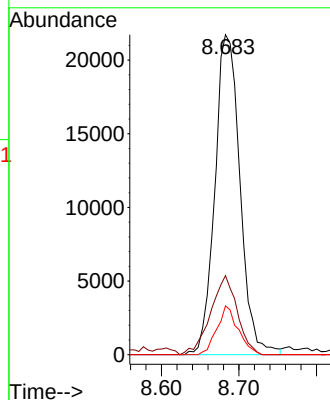
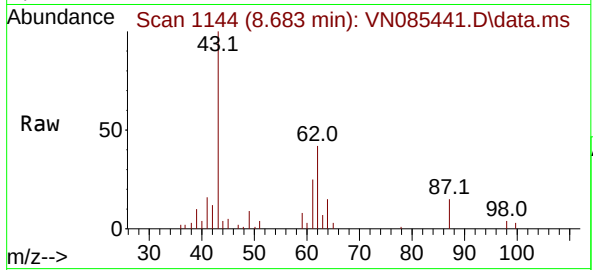




#43
Isopropyl Acetate
Concen: 9.127 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

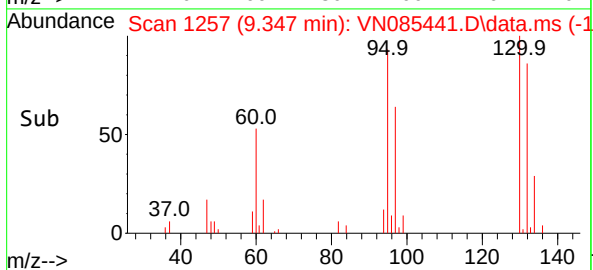
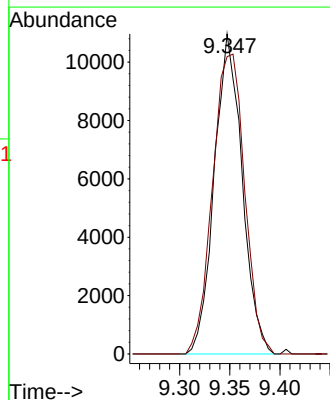
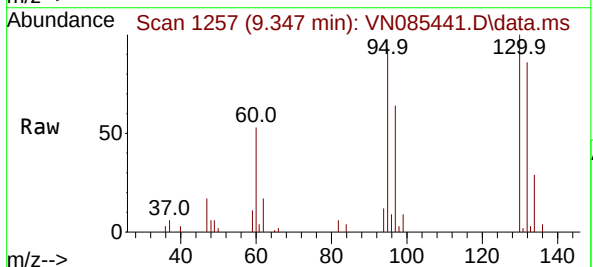
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

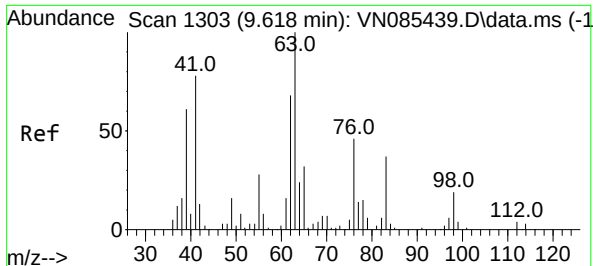
Tgt Ion: 43 Resp: 48926
Ion Ratio Lower Upper
43 100
61 26.2 20.7 31.1
87 12.8 9.8 14.8



#44
Trichloroethene
Concen: 9.108 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:130 Resp: 21113
Ion Ratio Lower Upper
130 100
95 92.9 0.0 195.8

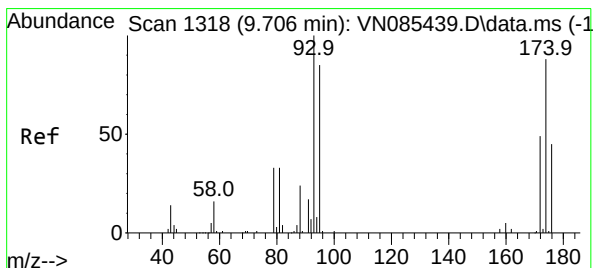
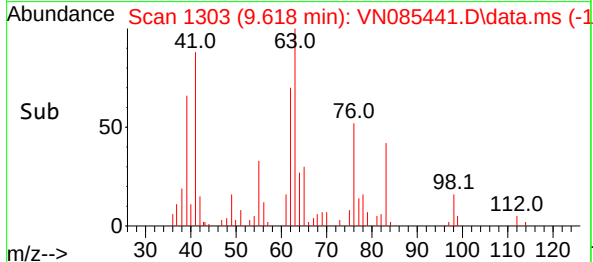
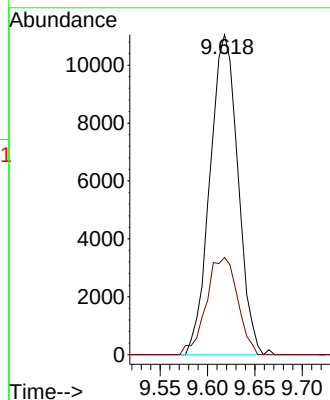
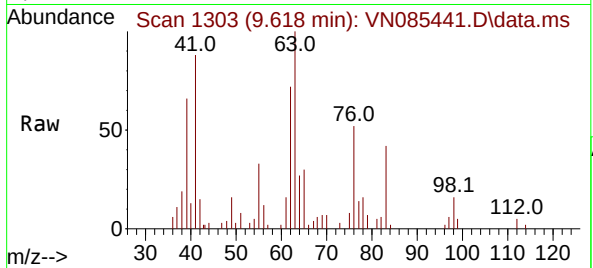




#45
1,2-Dichloropropane
Concen: 8.942 ug/l
RT: 9.618 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

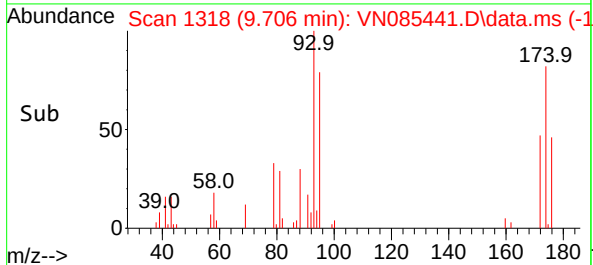
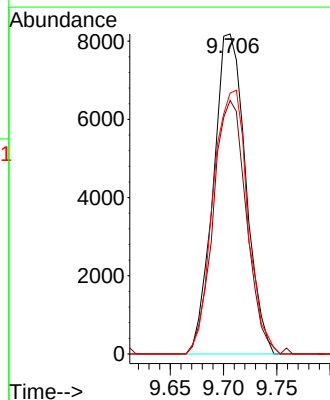
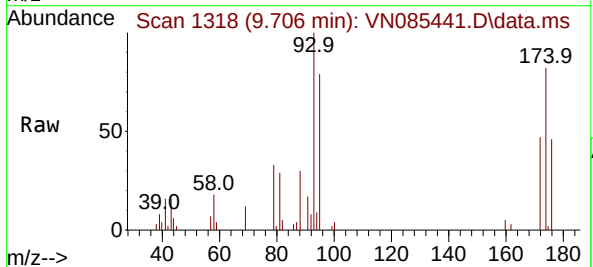
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

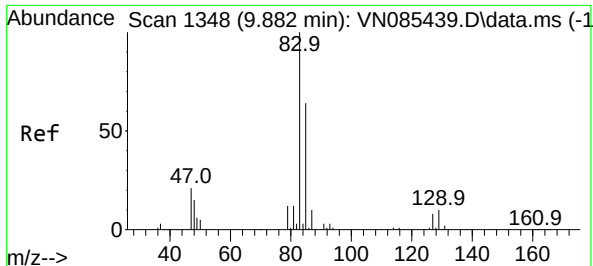
Tgt Ion: 63 Resp: 22747
Ion Ratio Lower Upper
63 100
65 30.4 25.6 38.4



#46
Dibromomethane
Concen: 9.404 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 93 Resp: 17260
Ion Ratio Lower Upper
93 100
95 81.5 64.7 97.1
174 87.8 69.0 103.4

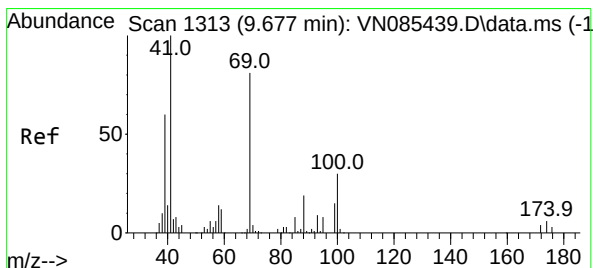
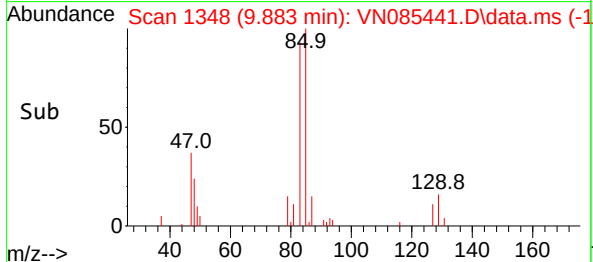
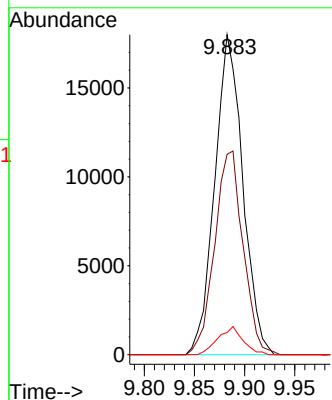
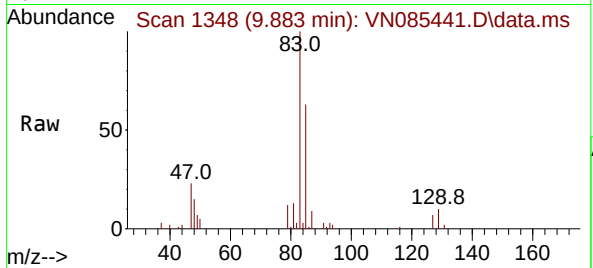




#47
Bromodichloromethane
Concen: 9.365 ug/l
RT: 9.883 min Scan# 1348
Delta R.T. 0.001 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

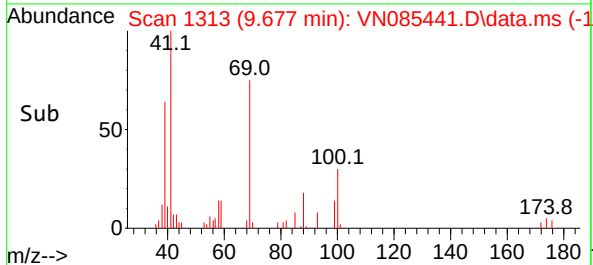
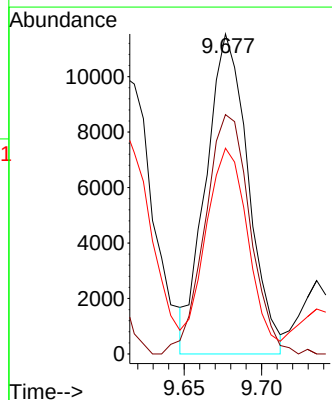
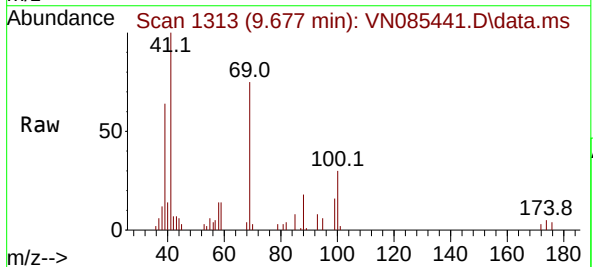
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

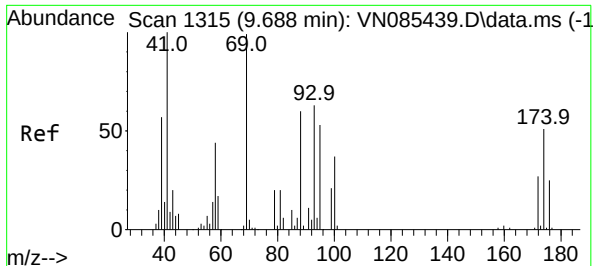
Tgt Ion: 83 Resp: 35020
Ion Ratio Lower Upper
83 100
85 62.6 51.2 76.8
127 6.9 6.5 9.7



#48
Methyl methacrylate
Concen: 9.067 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 41 Resp: 21873
Ion Ratio Lower Upper
41 100
69 80.0 64.7 97.1
39 65.2 49.0 73.6





#49

1,4-Dioxane

Concen: 190.382 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

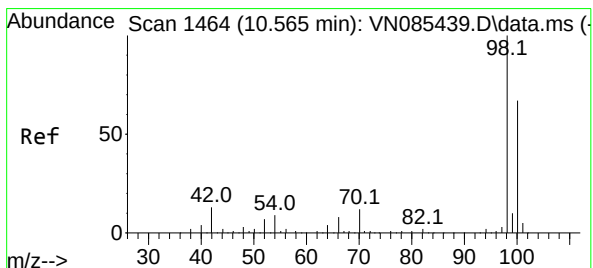
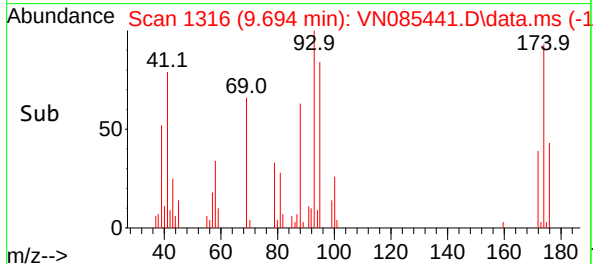
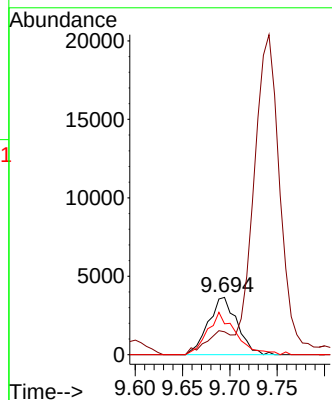
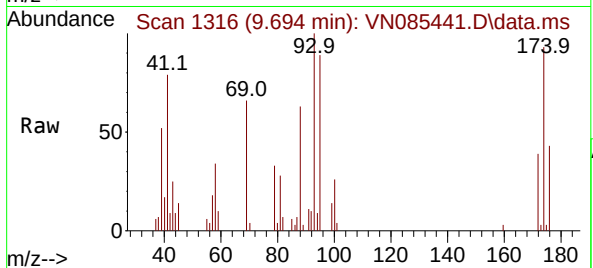
Tgt Ion: 88 Resp: 7734

Ion Ratio Lower Upper

88 100

43 35.2 26.6 39.8

58 73.3 59.5 89.3



#50

Toluene-d8

Concen: 8.727 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085441.D

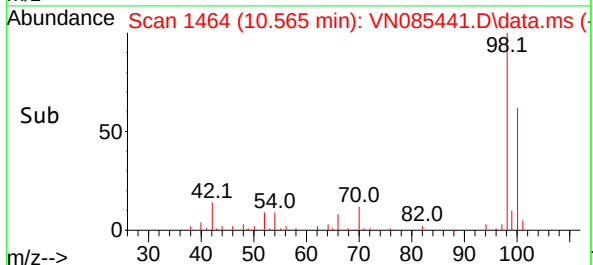
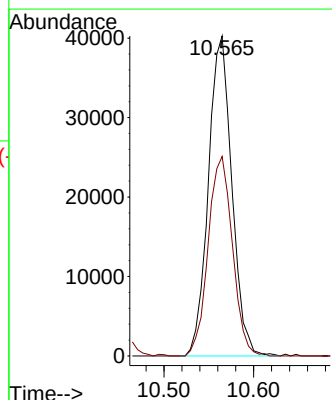
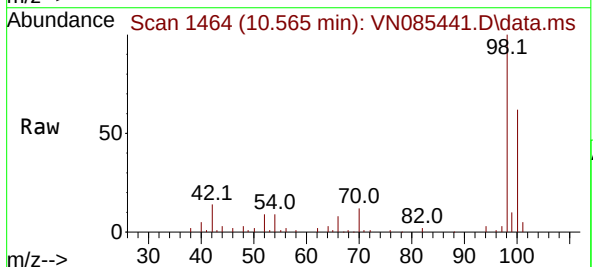
Acq: 14 Jan 2025 16:07

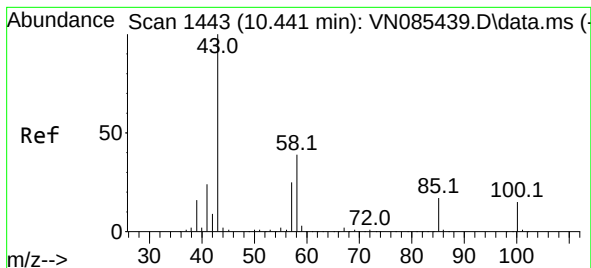
Tgt Ion: 98 Resp: 73223

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.4

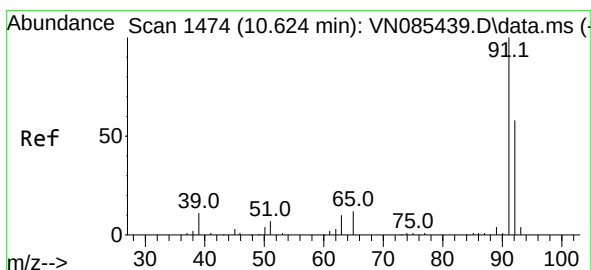
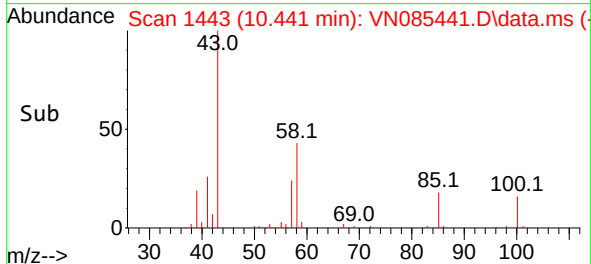
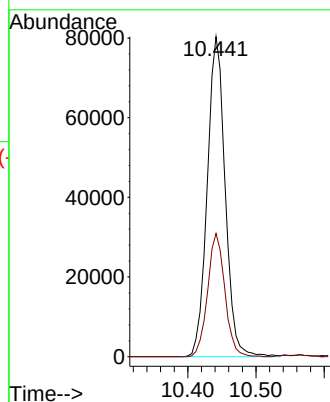
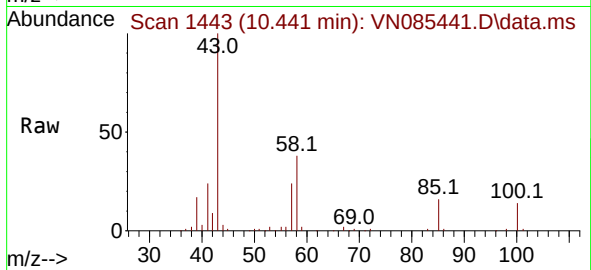




#51
4-Methyl-2-Pentanone
Concen: 47.254 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

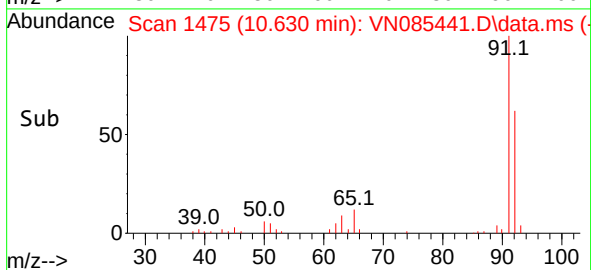
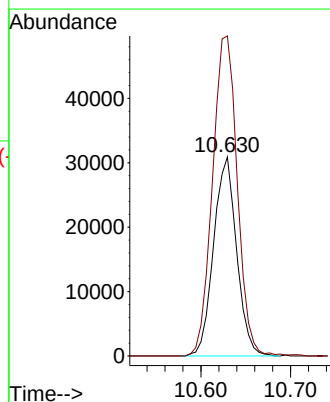
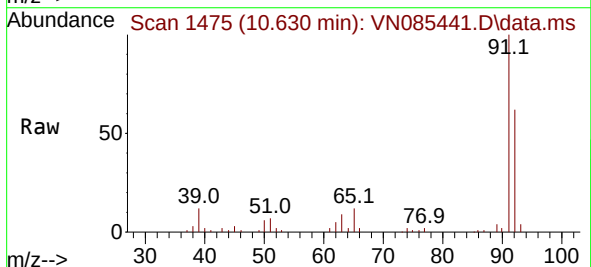
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

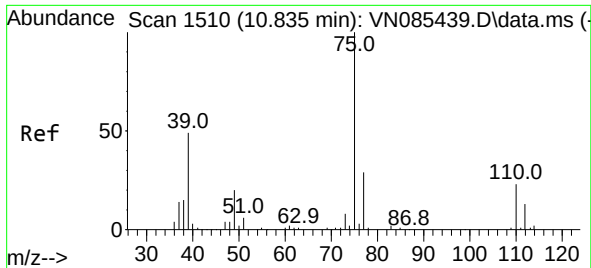
Tgt Ion: 43 Resp: 146990
Ion Ratio Lower Upper
43 100
58 37.1 30.5 45.7



#52
Toluene
Concen: 9.527 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 92 Resp: 54976
Ion Ratio Lower Upper
92 100
91 173.7 139.2 208.8

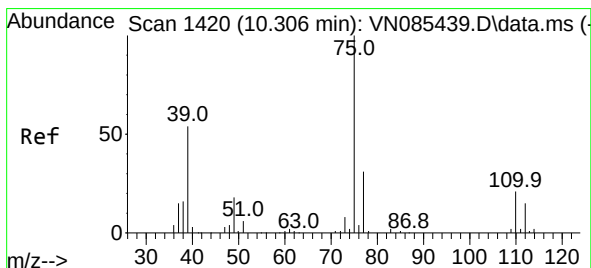
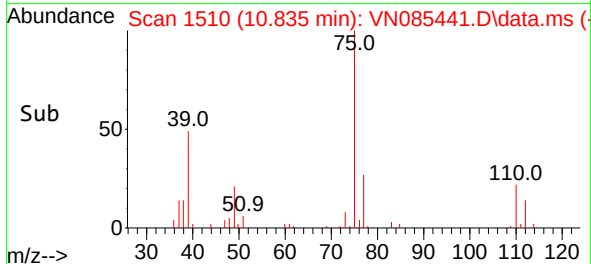
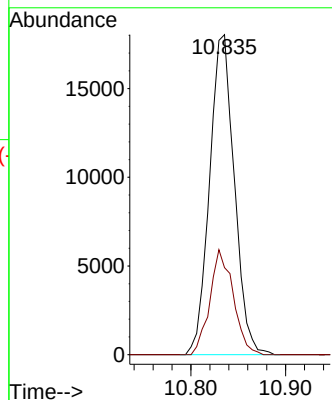
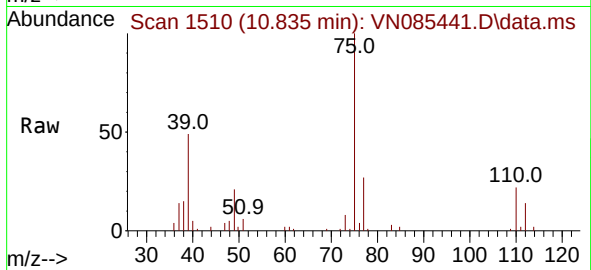




#53
 t-1,3-Dichloropropene
 Concen: 9.276 ug/l
 RT: 10.835 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

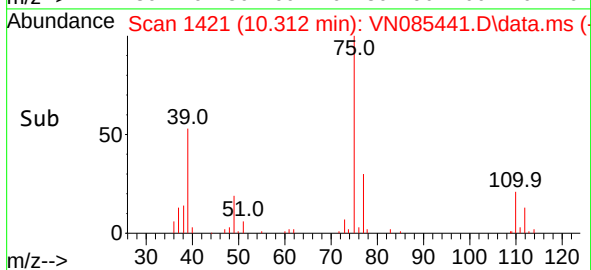
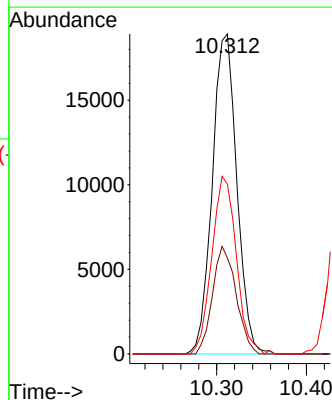
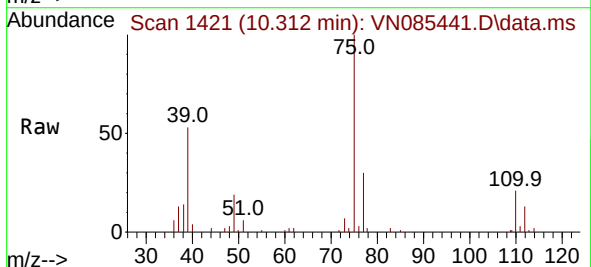
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

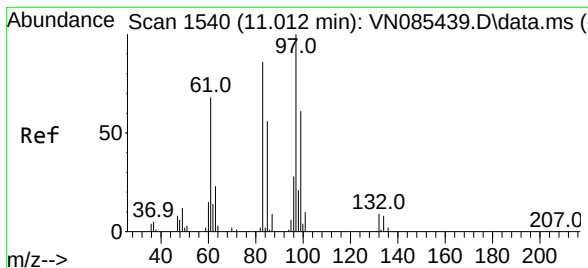
Tgt Ion: 75 Resp: 32780
 Ion Ratio Lower Upper
 75 100
 77 27.2 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 9.512 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.006 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 35904
 Ion Ratio Lower Upper
 75 100
 77 30.0 25.0 37.4
 39 53.1 43.1 64.7

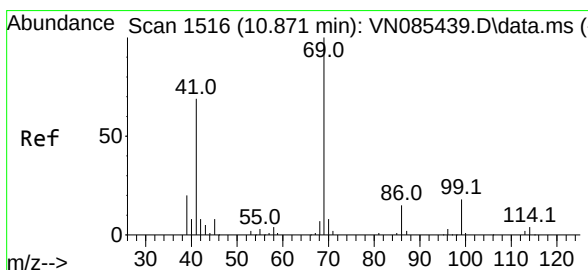
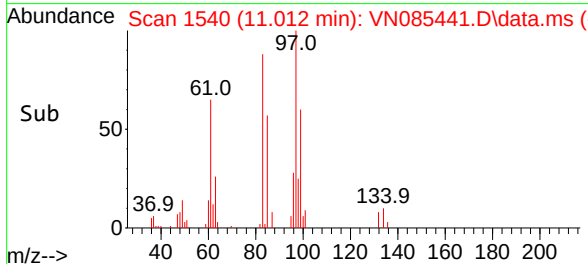
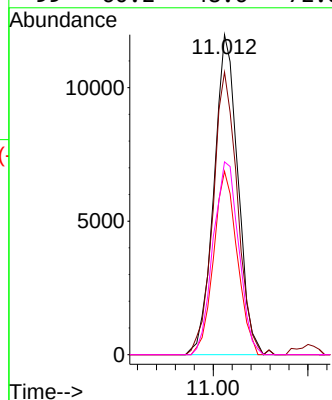
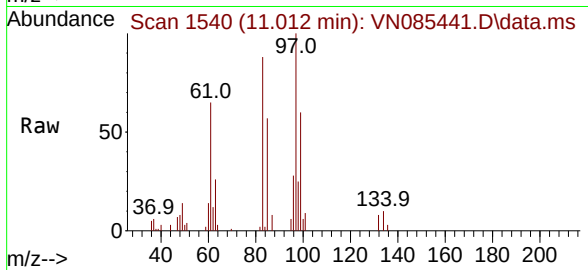




#55
1,1,2-Trichloroethane
Concen: 9.222 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

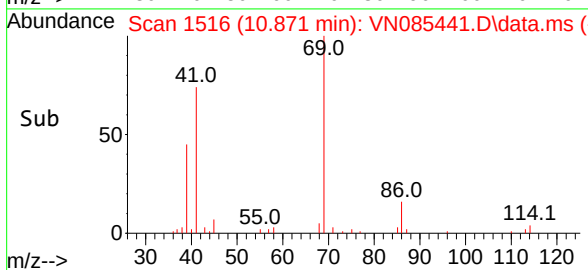
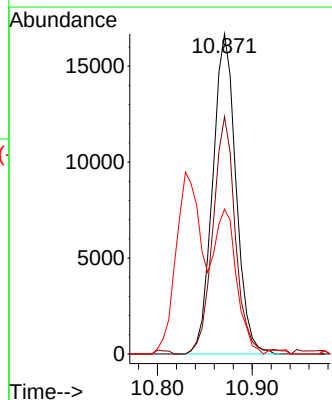
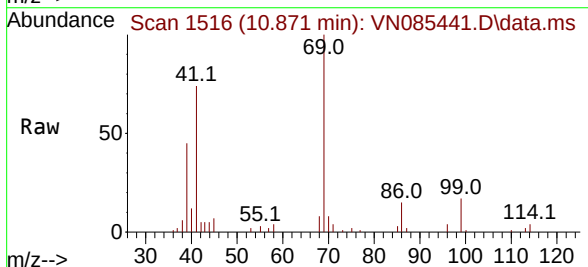
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

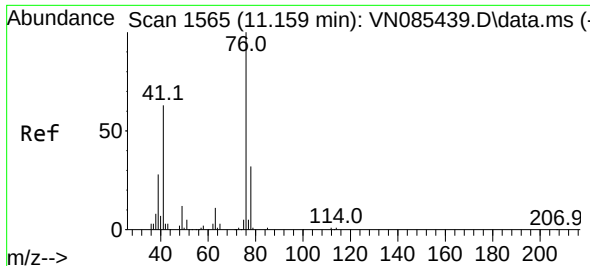
Tgt Ion: 97	Resp: 21060
Ion Ratio	Lower Upper
97 100	
83 88.3	69.0 103.6
85 57.3	44.6 66.8
99 60.2	48.6 72.8



#56
Ethyl methacrylate
Concen: 9.042 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 69	Resp: 28454
Ion Ratio	Lower Upper
69 100	
41 72.1	54.6 82.0
39 43.4	32.4 48.6





#57

1,3-Dichloropropane

Concen: 9.512 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

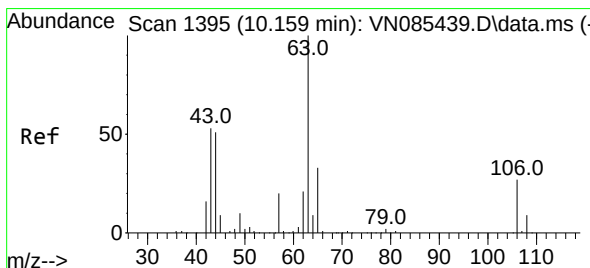
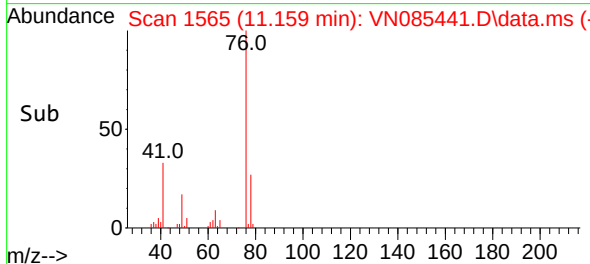
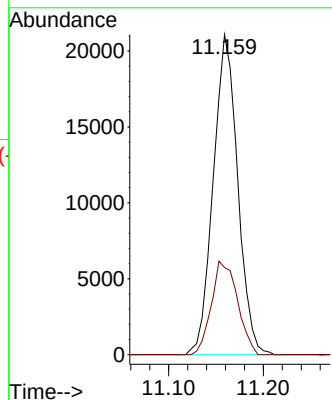
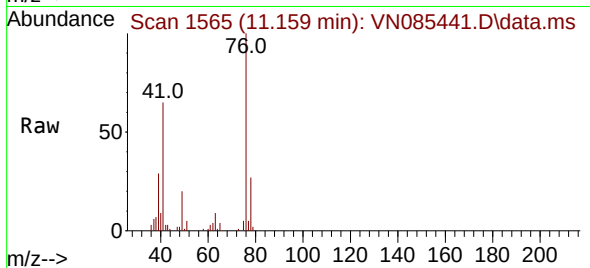
VSTDIC010

Tgt Ion: 76 Resp: 37768

Ion Ratio Lower Upper

76 100

78 31.1 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 43.550 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085441.D

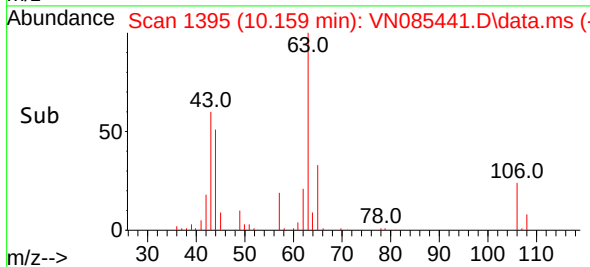
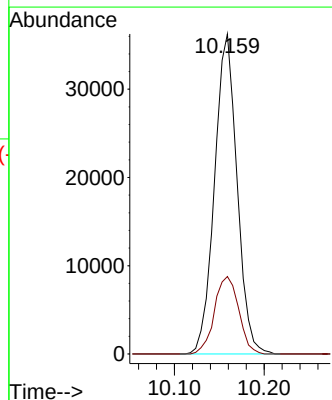
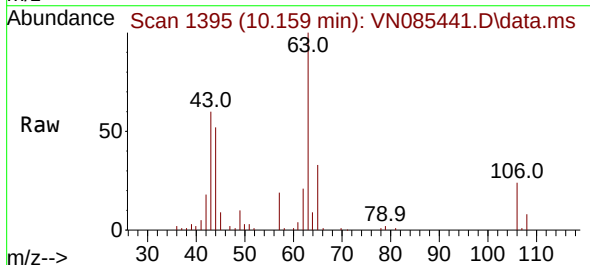
Acq: 14 Jan 2025 16:07

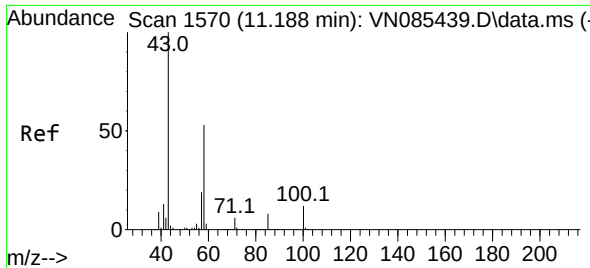
Tgt Ion: 63 Resp: 63110

Ion Ratio Lower Upper

63 100

106 26.1 21.6 32.4

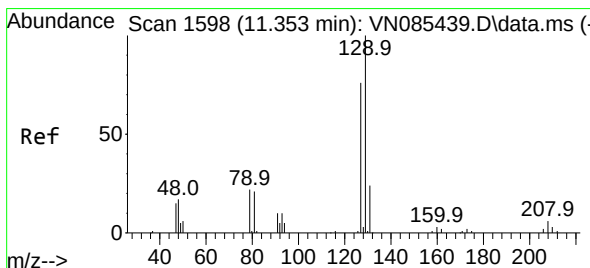
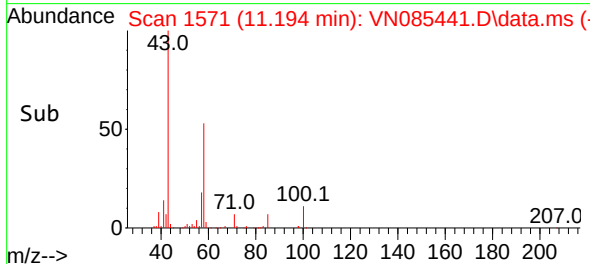
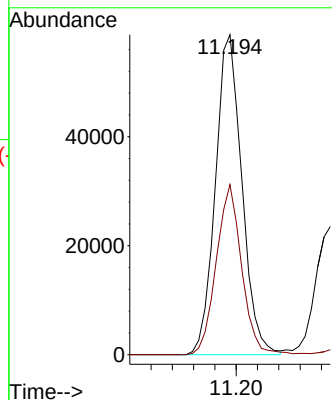
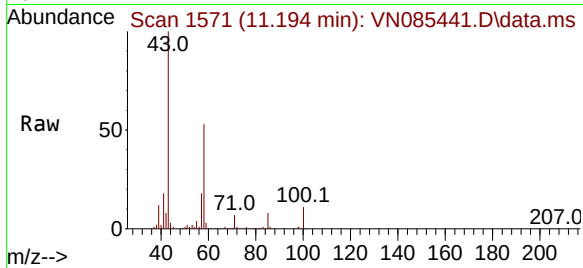




#59
2-Hexanone
Concen: 46.291 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

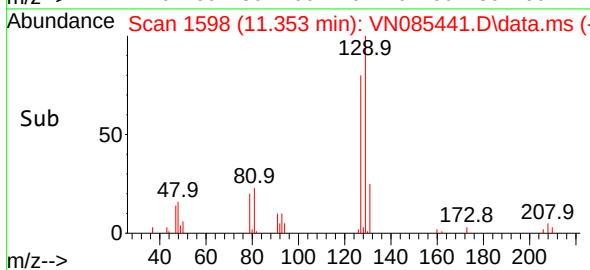
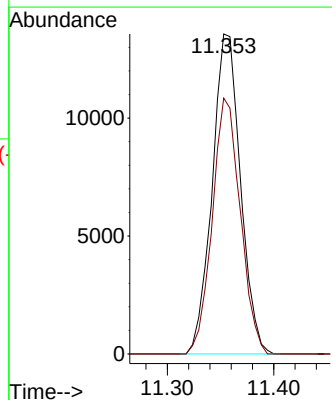
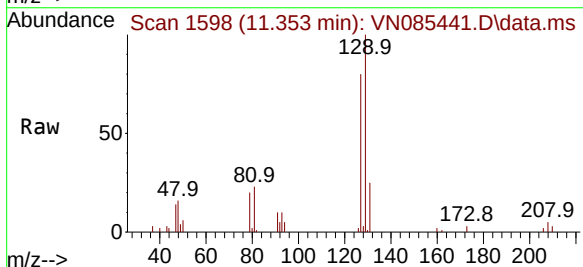
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

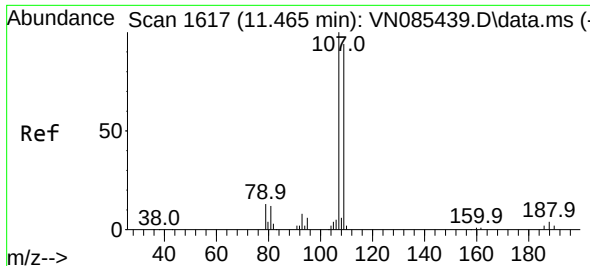
Tgt Ion: 43 Resp: 101318
Ion Ratio Lower Upper
43 100
58 50.9 26.2 78.6



#60
Dibromochloromethane
Concen: 9.079 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 129 Resp: 25029
Ion Ratio Lower Upper
129 100
127 79.1 38.6 115.8

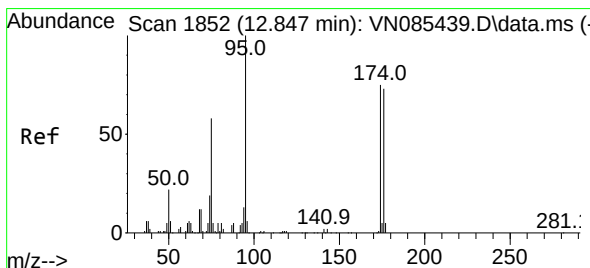
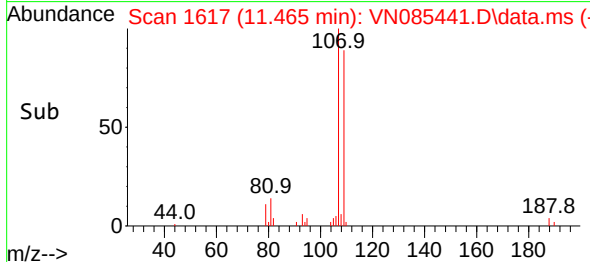
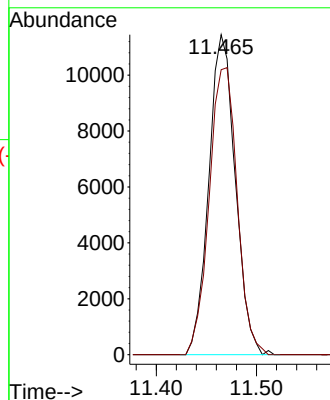
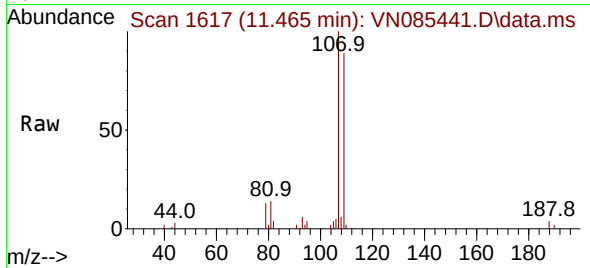




#61
1,2-Dibromoethane
Concen: 9.263 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

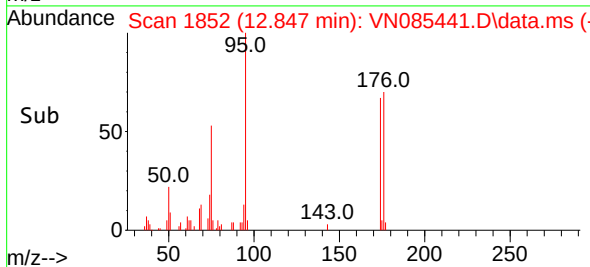
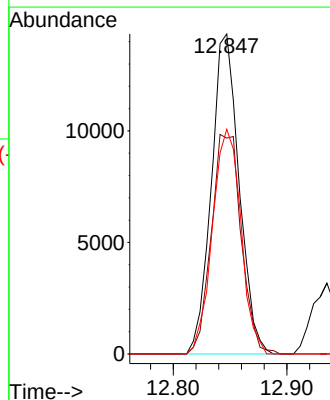
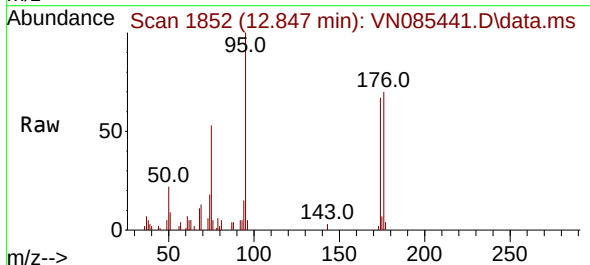
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

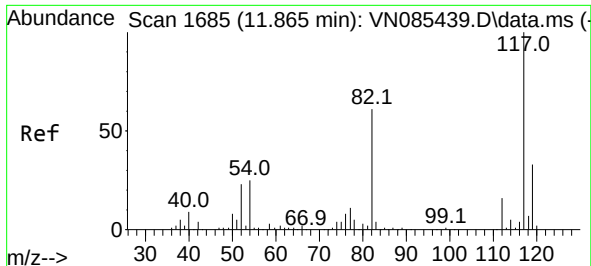
Tgt Ion:107 Resp: 21055
Ion Ratio Lower Upper
107 100
109 94.6 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 8.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 95 Resp: 24327
Ion Ratio Lower Upper
95 100
174 73.9 0.0 145.0
176 72.1 0.0 142.4

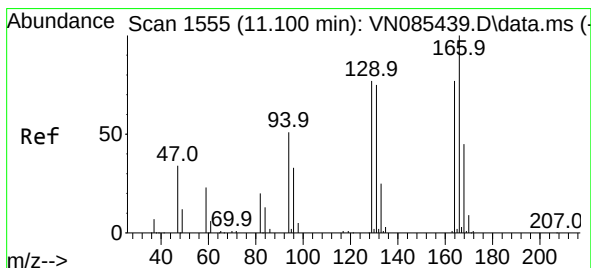
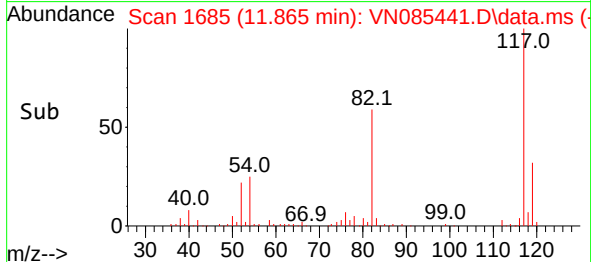
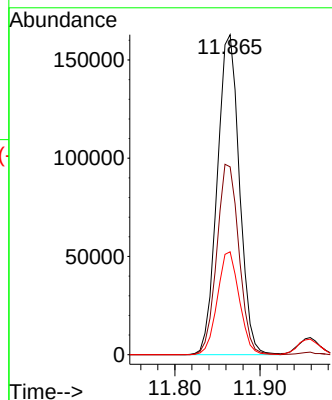
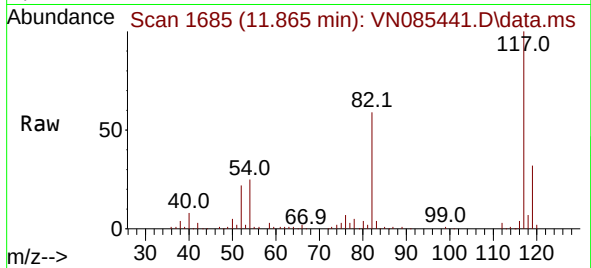




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

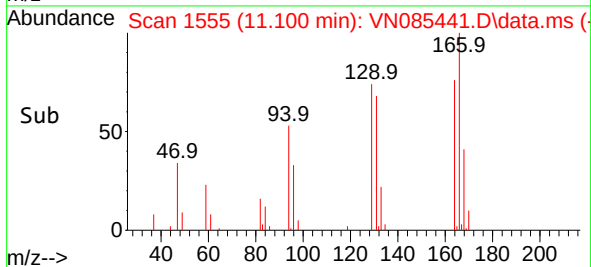
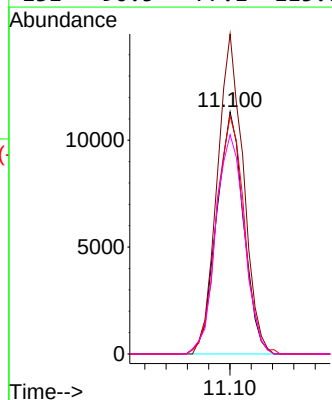
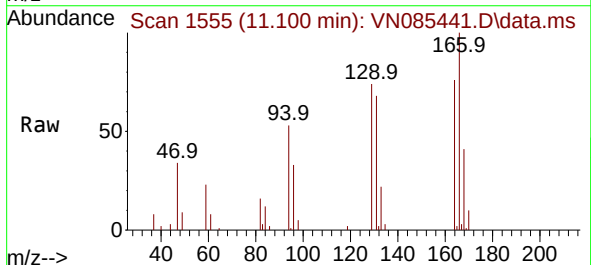
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

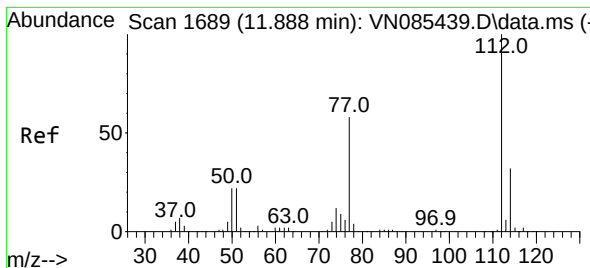
Tgt Ion:117 Resp: 294508
Ion Ratio Lower Upper
117 100
82 58.7 48.6 72.8
119 32.2 26.6 39.8



#64
Tetrachloroethene
Concen: 9.928 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:164 Resp: 19934
Ion Ratio Lower Upper
164 100
166 132.2 103.4 155.2
129 98.3 79.2 118.8
131 90.5 77.1 115.7

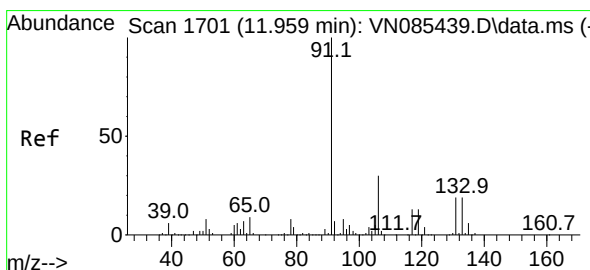
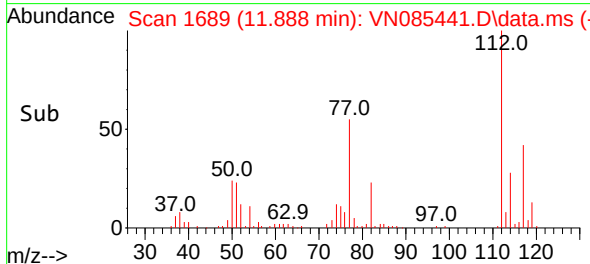
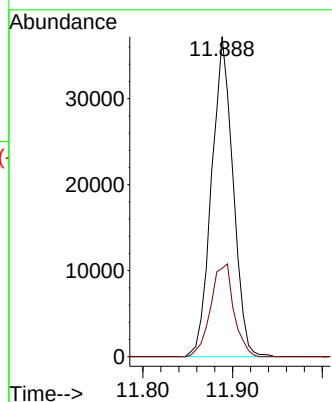
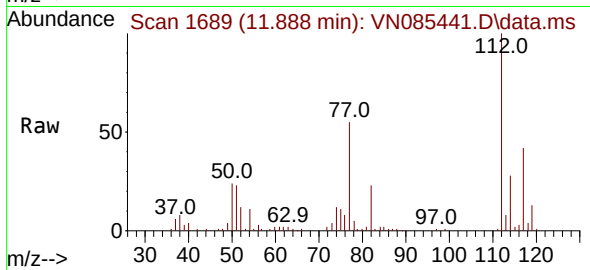




#65
Chlorobenzene
Concen: 9.560 ug/l
RT: 11.888 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

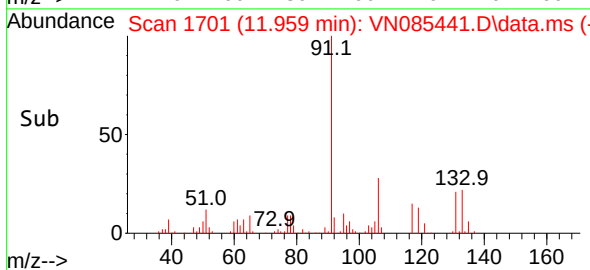
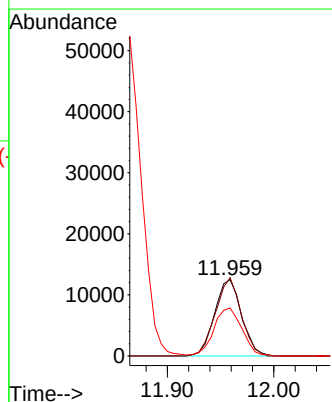
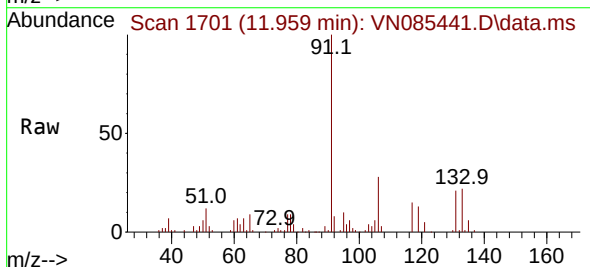
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

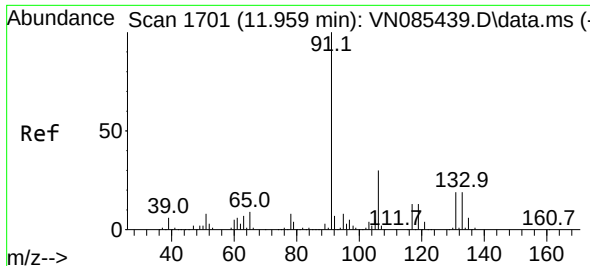
Tgt Ion:112 Resp: 61680
Ion Ratio Lower Upper
112 100
114 27.6 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 9.229 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:131 Resp: 21853
Ion Ratio Lower Upper
131 100
133 98.5 47.4 142.3
119 66.0 33.1 99.5

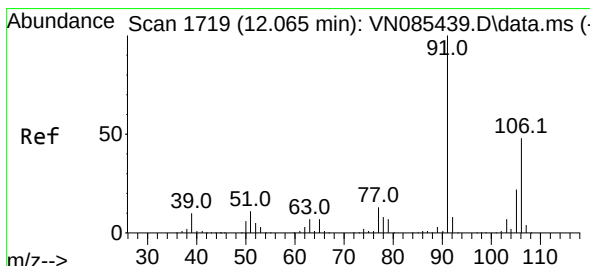
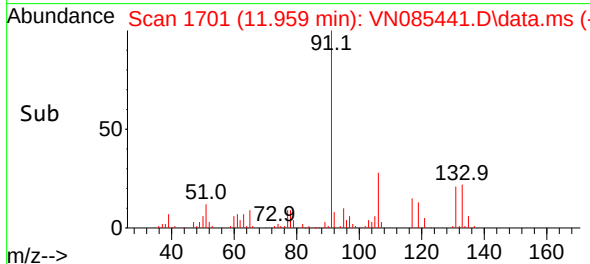
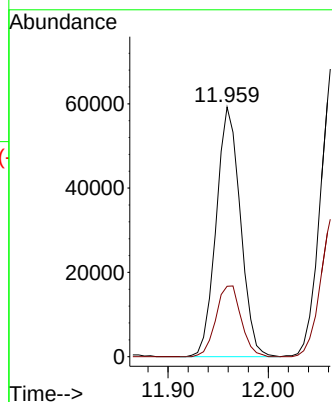
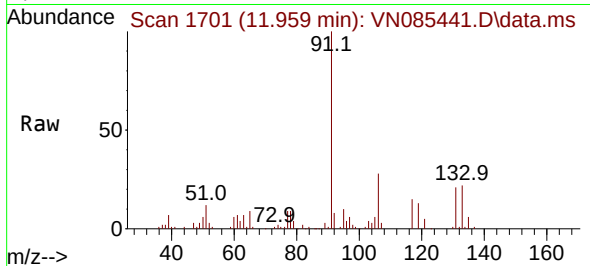




#67
Ethyl Benzene
Concen: 9.445 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

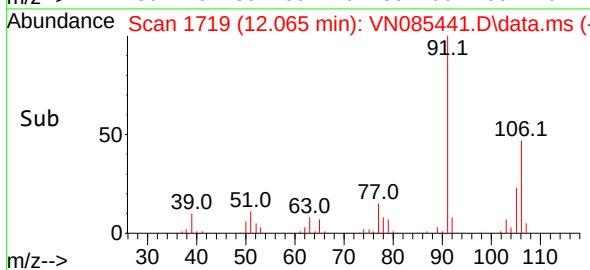
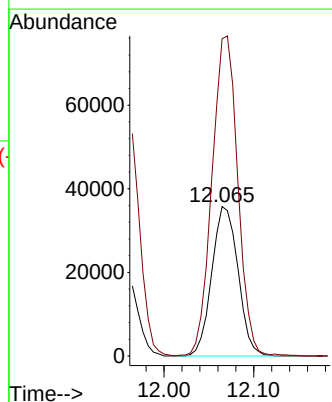
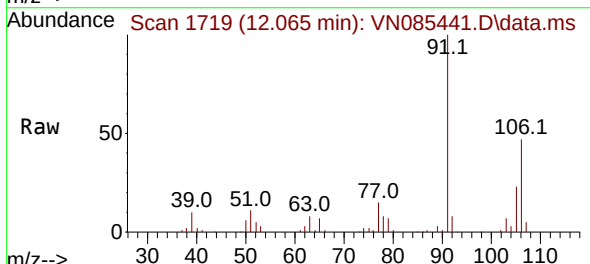
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

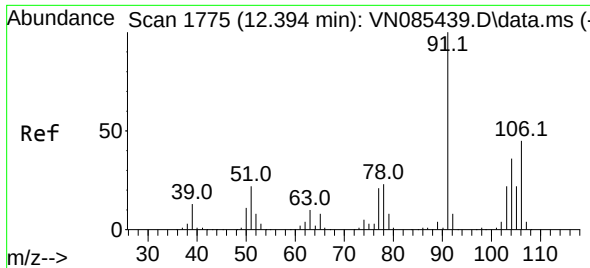
Tgt Ion: 91 Resp: 99248
Ion Ratio Lower Upper
91 100
106 28.2 23.8 35.8



#68
m/p-Xylenes
Concen: 18.650 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:106 Resp: 72431
Ion Ratio Lower Upper
106 100
91 211.7 167.7 251.5

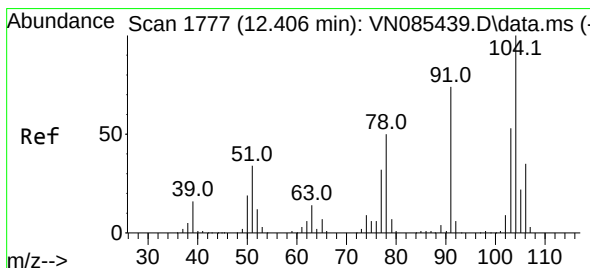
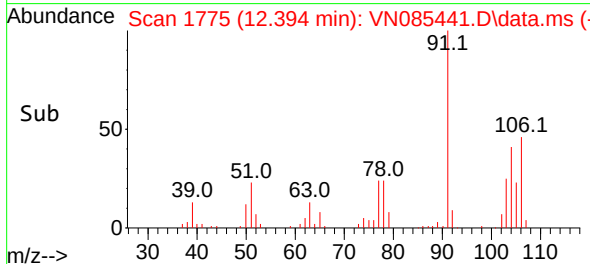
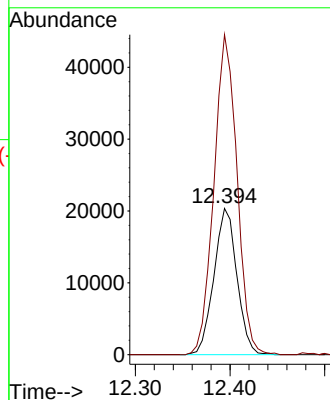
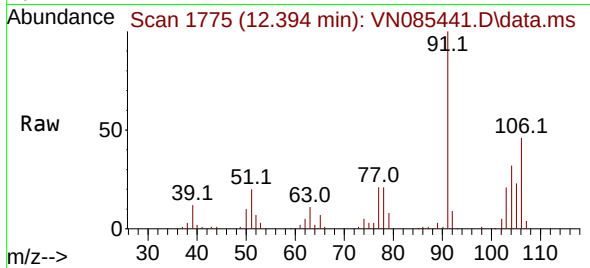




#69
o-Xylene
Concen: 9.264 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

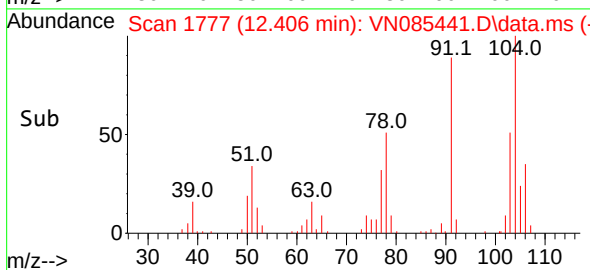
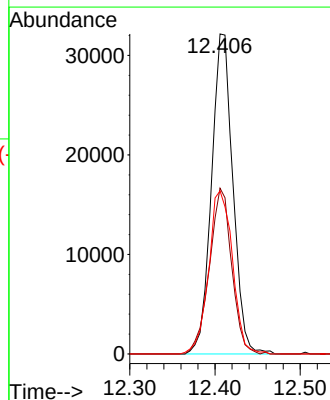
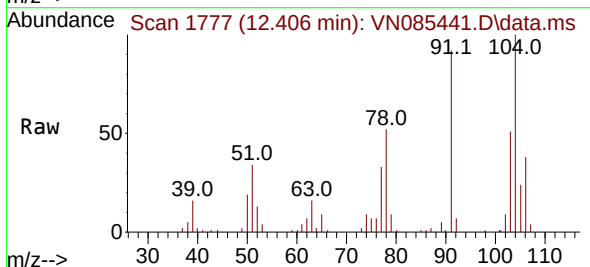
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

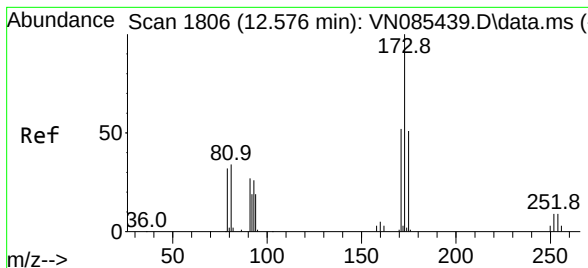
Tgt Ion:106 Resp: 34382
Ion Ratio Lower Upper
106 100
91 219.5 110.4 331.2



#70
Styrene
Concen: 9.163 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:104 Resp: 56285
Ion Ratio Lower Upper
104 100
78 53.8 42.5 63.7
103 56.8 43.8 65.8

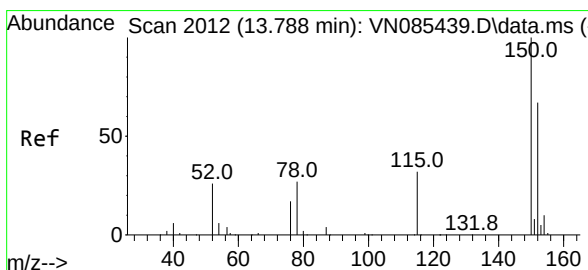
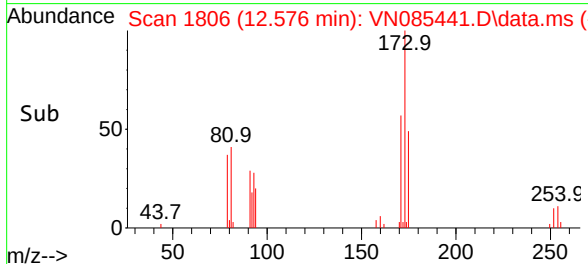
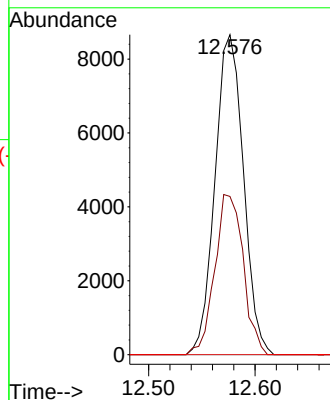
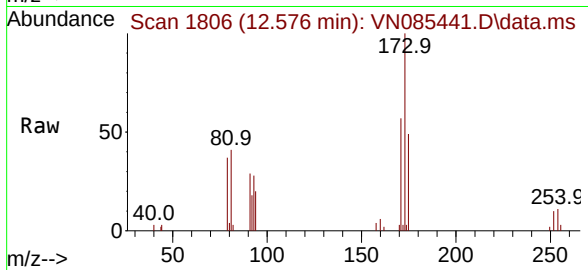




#71
Bromoform
Concen: 9.485 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

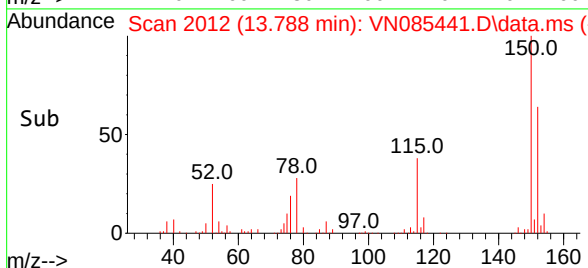
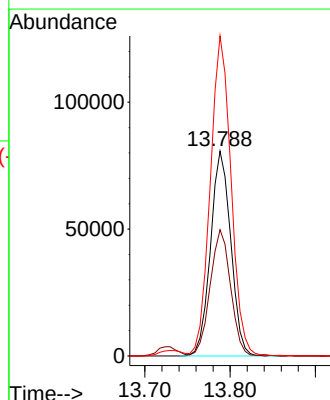
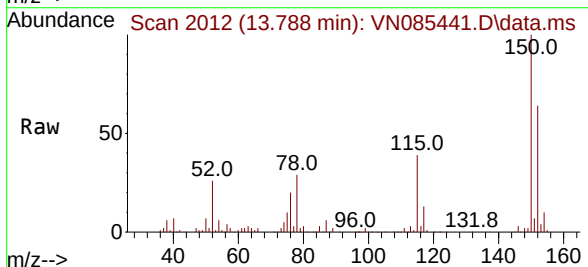
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

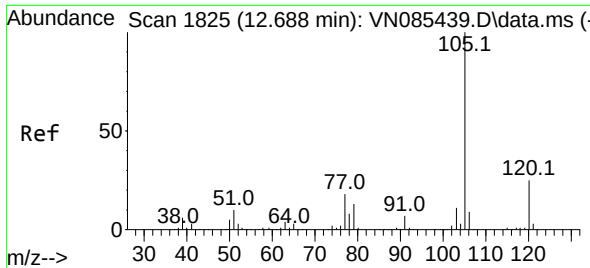
Tgt Ion:173 Resp: 16071
Ion Ratio Lower Upper
173 100
175 50.0 24.4 73.2
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion:152 Resp: 132934
Ion Ratio Lower Upper
152 100
115 62.3 31.1 93.3
150 159.8 0.0 343.6

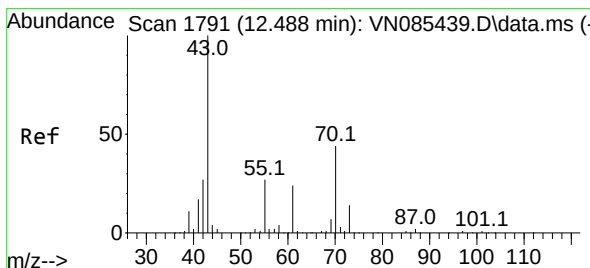
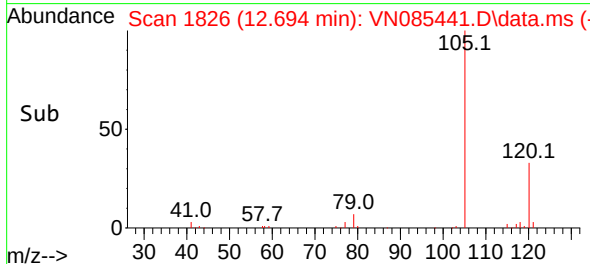
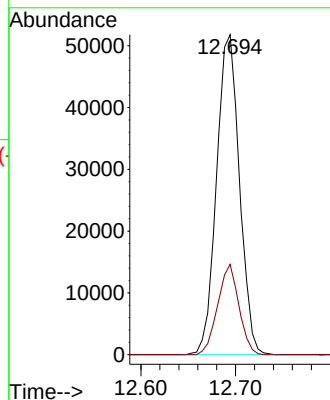
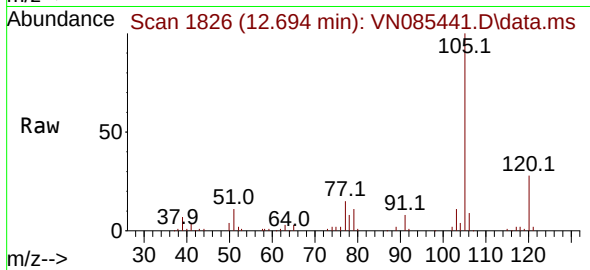




#73
Isopropylbenzene
Concen: 9.697 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

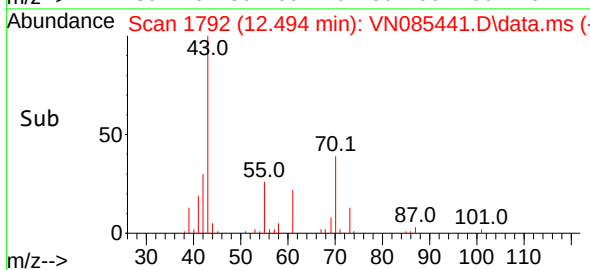
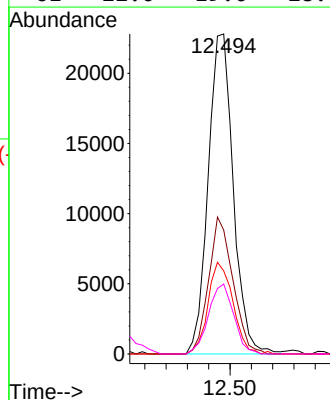
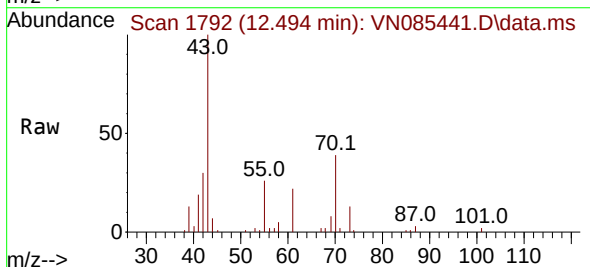
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

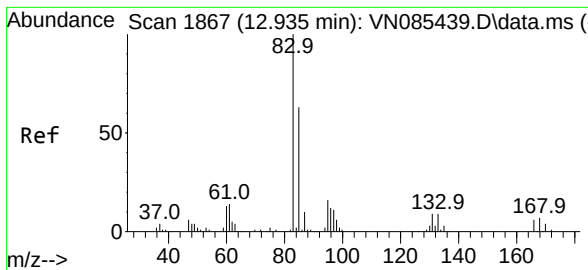
Tgt Ion:105 Resp: 87003
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.3



#74
N-ethyl acetate
Concen: 9.260 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 43 Resp: 37343
Ion Ratio Lower Upper
43 100
70 41.4 34.0 51.0
55 28.5 21.4 32.2
61 22.0 19.0 28.4

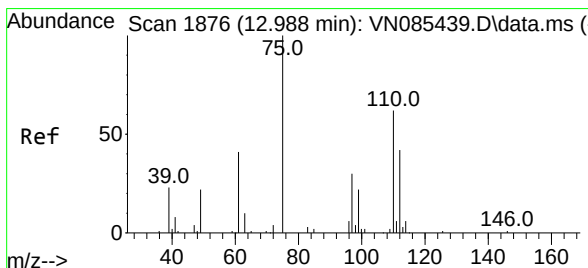
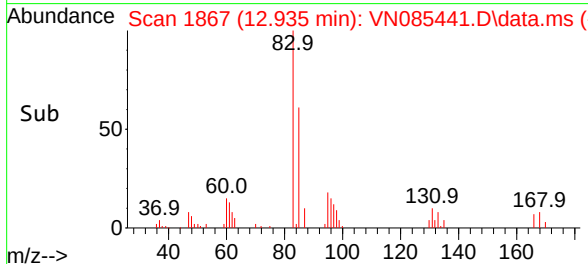
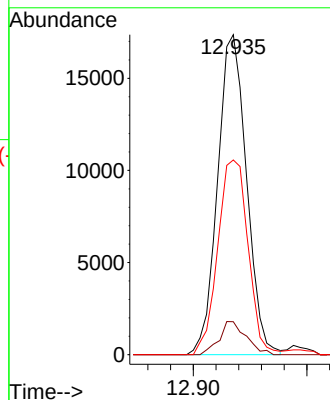
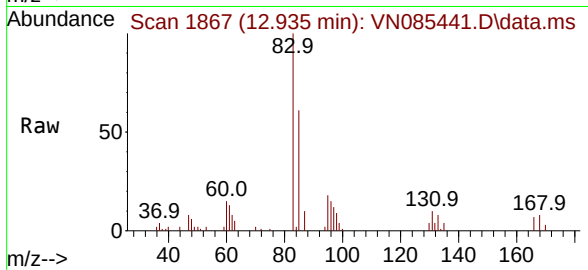




#75
1,1,2,2-Tetrachloroethane
Concen: 9.709 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

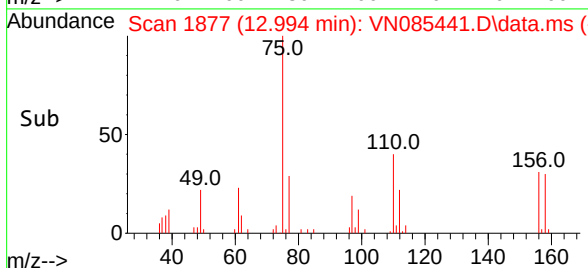
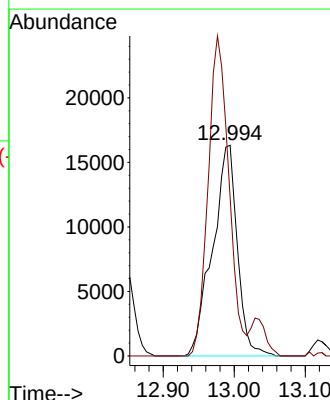
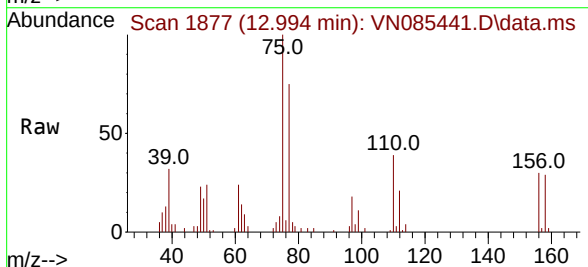
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

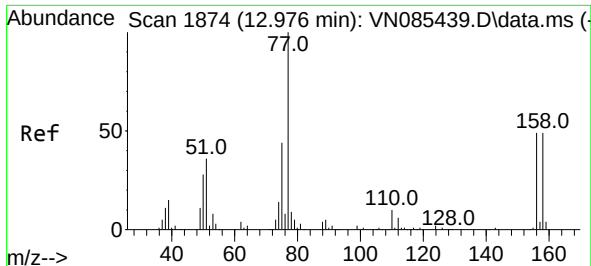
Tgt Ion: 83 Resp: 30770
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.4
85 63.6 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 14.675 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 39589
Ion Ratio Lower Upper
75 100
77 127.6 109.7 329.2

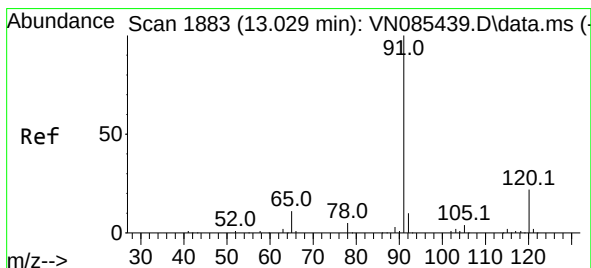
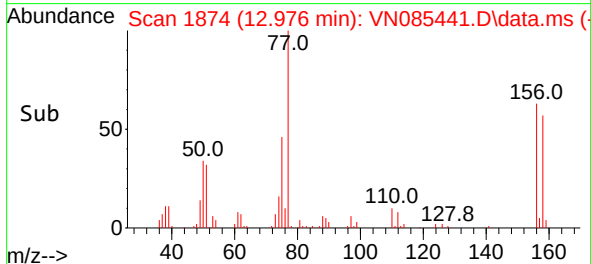
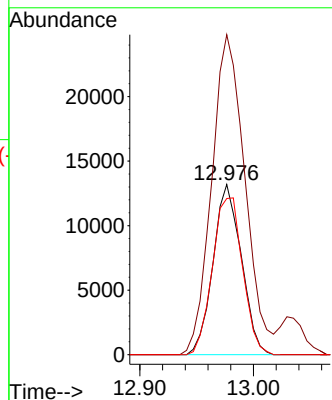
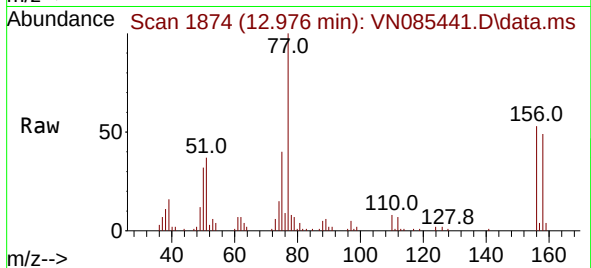




#77
Bromobenzene
Concen: 9.720 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

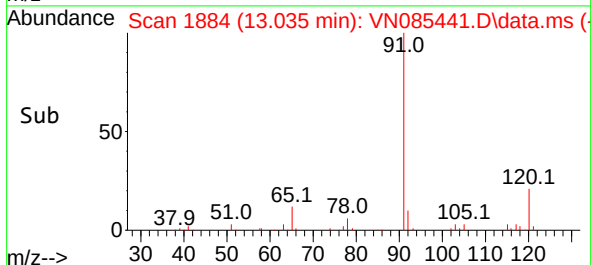
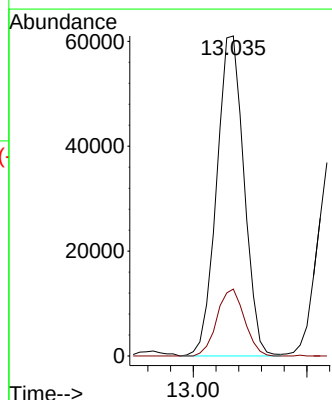
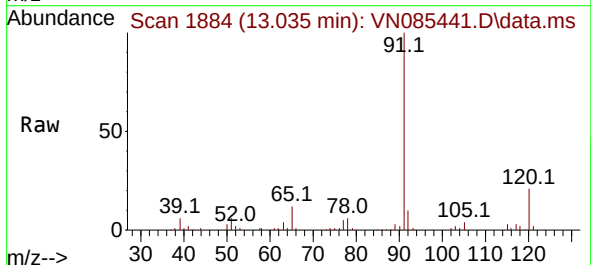
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

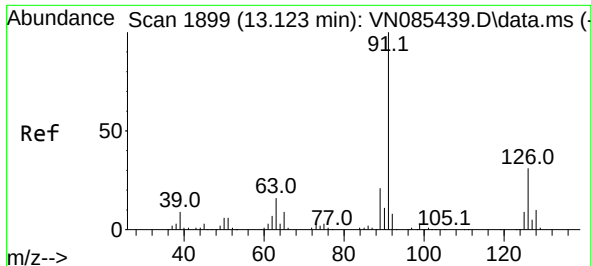
Tgt Ion:156 Resp: 22784
Ion Ratio Lower Upper
156 100
77 221.6 114.1 342.4
158 98.7 48.9 146.8



#78
n-propylbenzene
Concen: 9.628 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 102262
Ion Ratio Lower Upper
91 100
120 20.9 10.9 32.6





#79

2-Chlorotoluene

Concen: 9.943 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

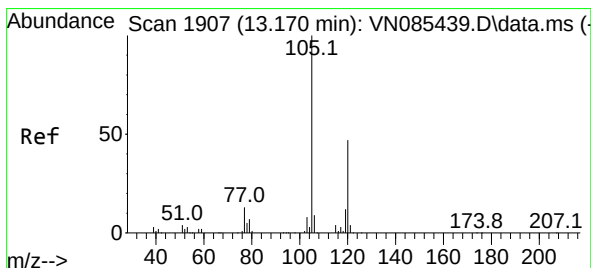
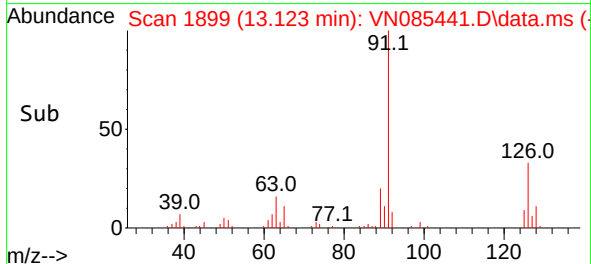
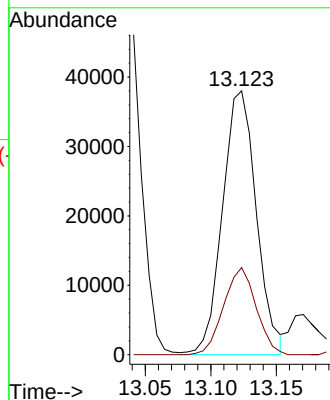
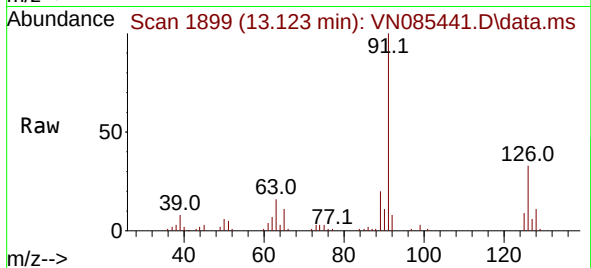
VSTDICC010

Tgt Ion: 91 Resp: 68346

Ion Ratio Lower Upper

91 100

126 31.5 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 9.669 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085441.D

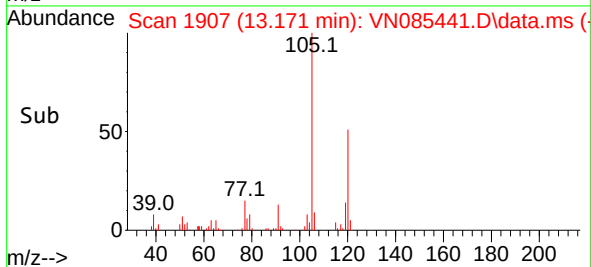
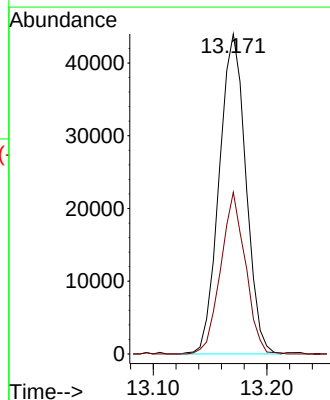
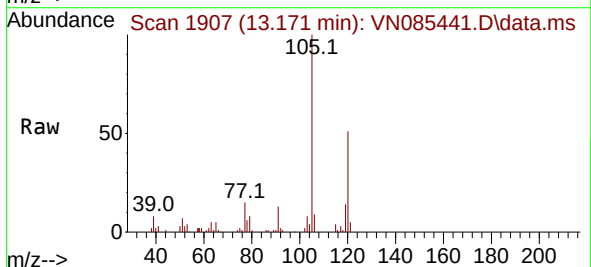
Acq: 14 Jan 2025 16:07

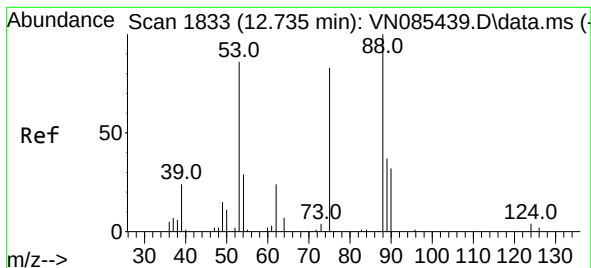
Tgt Ion: 105 Resp: 71656

Ion Ratio Lower Upper

105 100

120 46.8 23.9 71.7

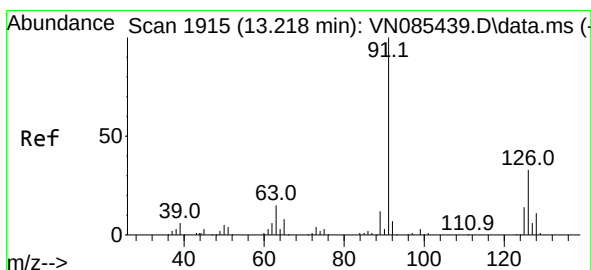
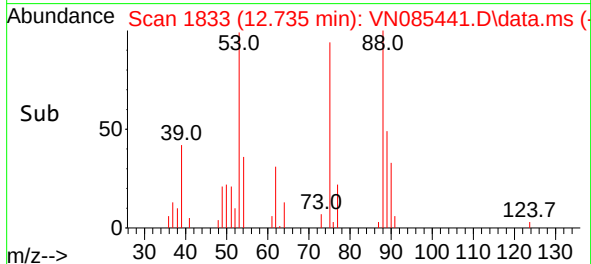
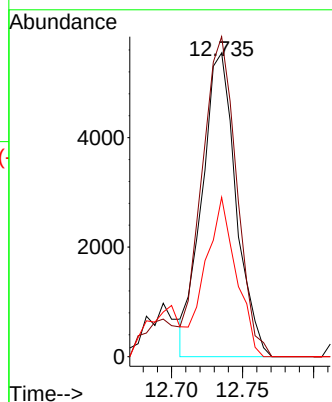
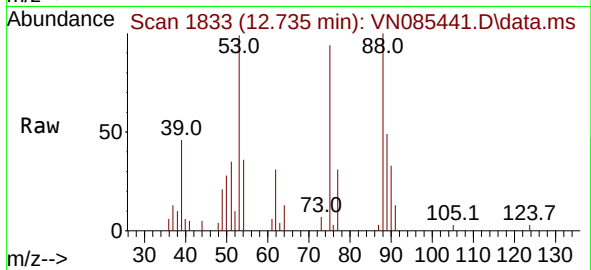




#81
trans-1,4-Dichloro-2-butene
Concen: 9.248 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

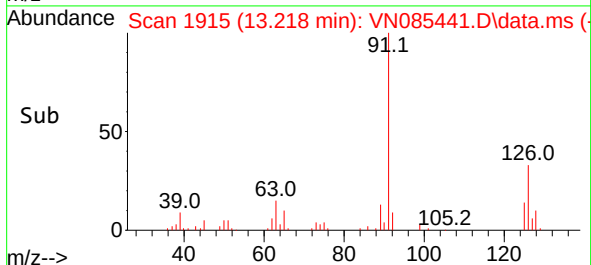
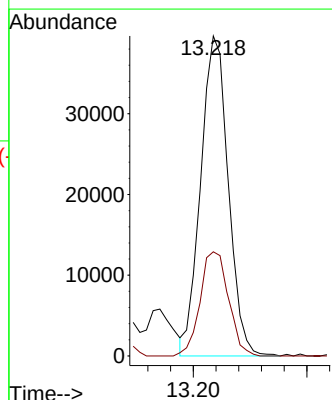
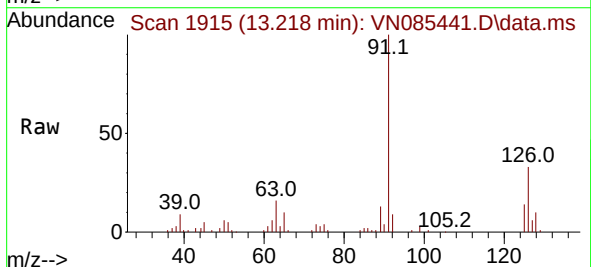
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

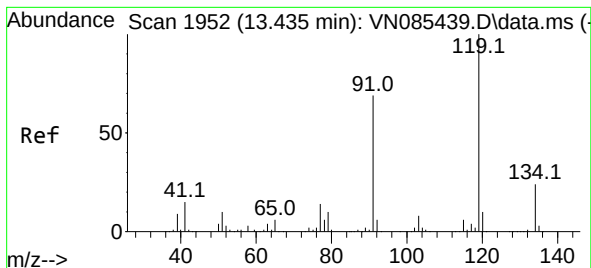
Tgt Ion: 75 Resp: 9236
Ion Ratio Lower Upper
75 100
53 119.6 95.6 143.4
89 46.6 37.0 55.6



#82
4-Chlorotoluene
Concen: 9.756 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 91 Resp: 66773
Ion Ratio Lower Upper
91 100
126 33.6 15.9 47.7





#83

tert-Butylbenzene

Concen: 9.553 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

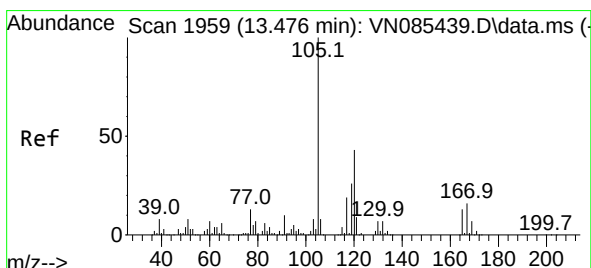
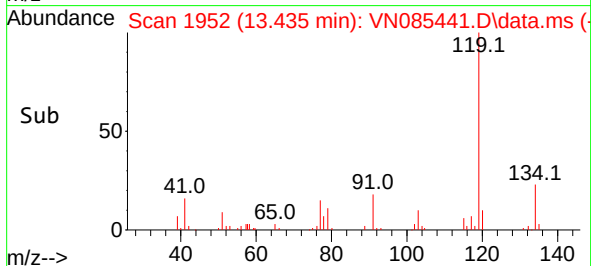
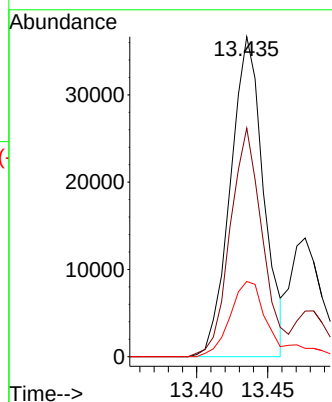
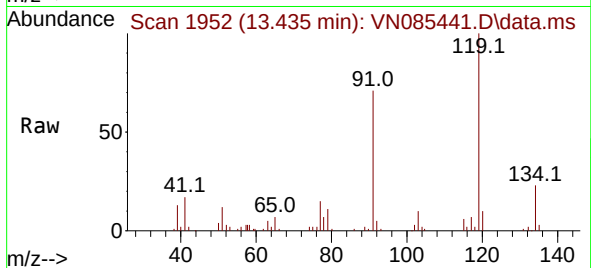
Tgt Ion:119 Resp: 59455

Ion Ratio Lower Upper

119 100

91 70.0 35.1 105.3

134 27.8 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 9.754 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085441.D

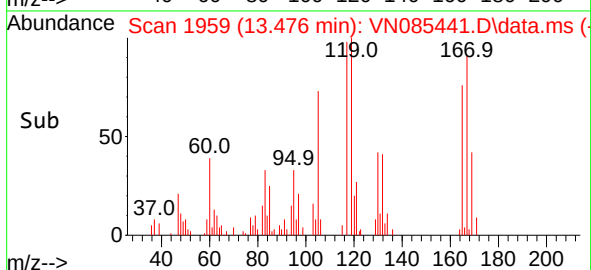
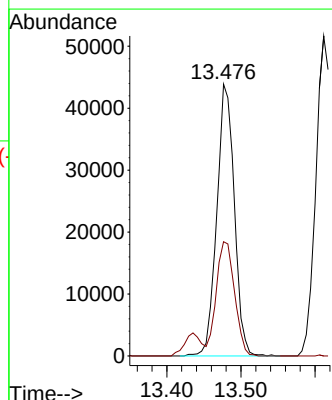
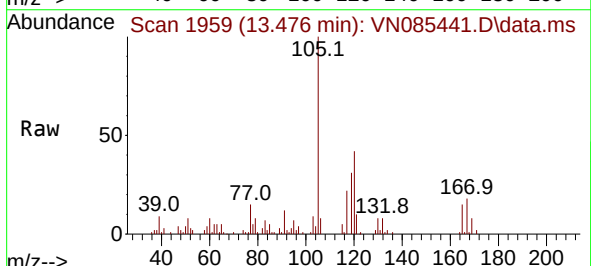
Acq: 14 Jan 2025 16:07

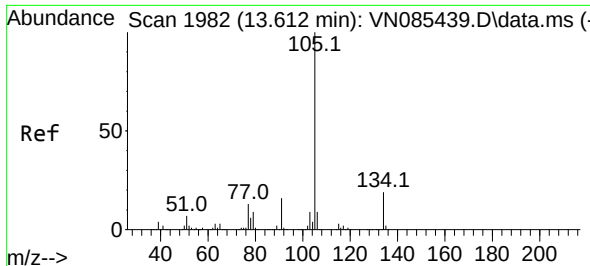
Tgt Ion:105 Resp: 72046

Ion Ratio Lower Upper

105 100

120 43.8 21.6 65.0

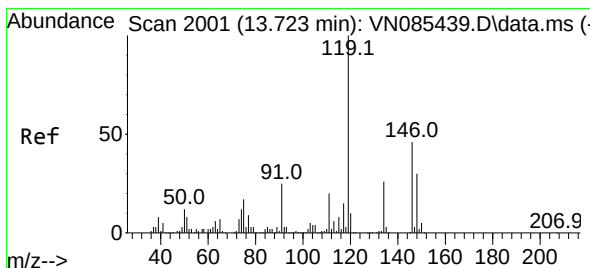
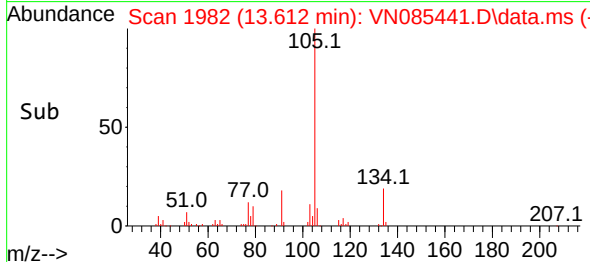
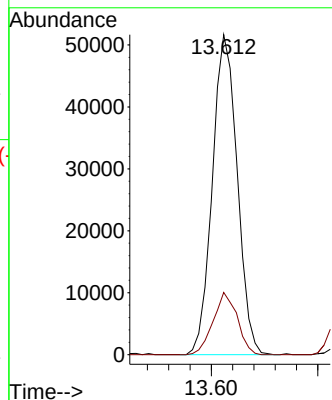
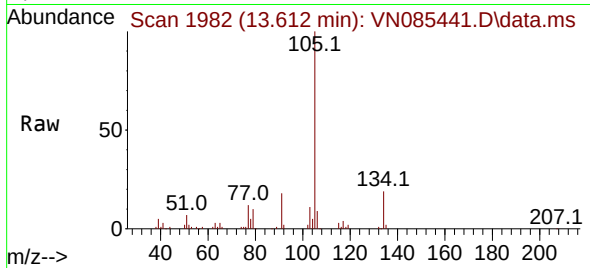




#85
 sec-Butylbenzene
 Concen: 9.699 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

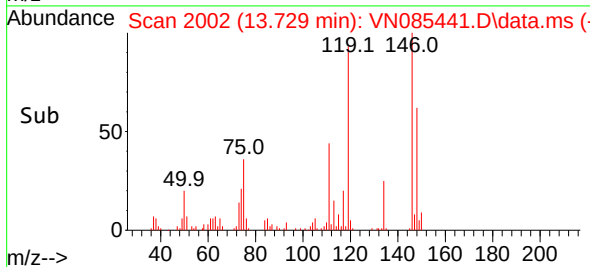
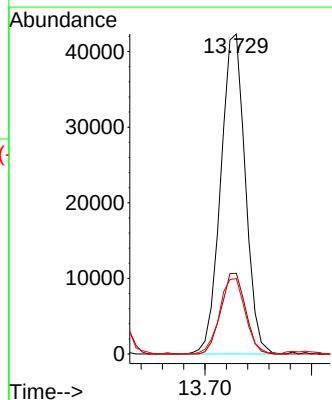
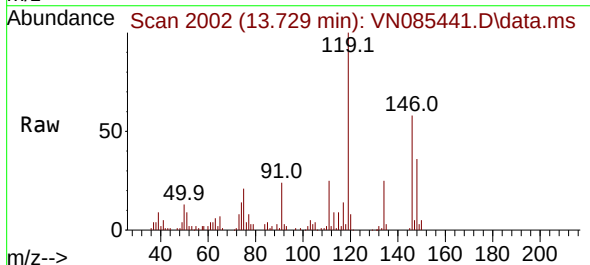
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

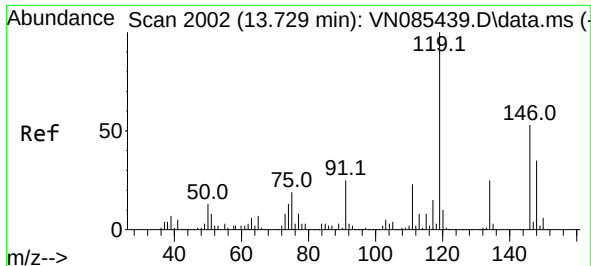
Tgt Ion:105 Resp: 83662
 Ion Ratio Lower Upper
 105 100
 134 18.9 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 9.674 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion:119 Resp: 67556
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.7 38.0
 91 25.0 12.7 38.1

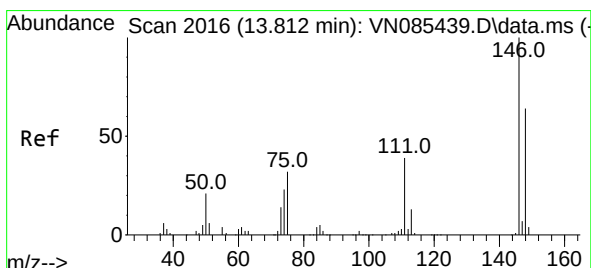
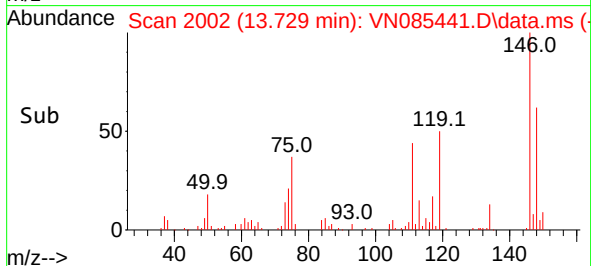
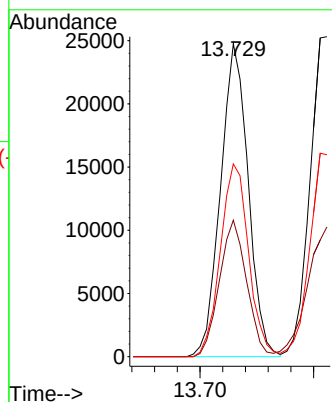
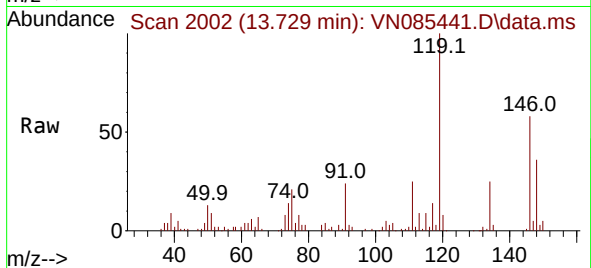




#87
 1,3-Dichlorobenzene
 Concen: 9.693 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

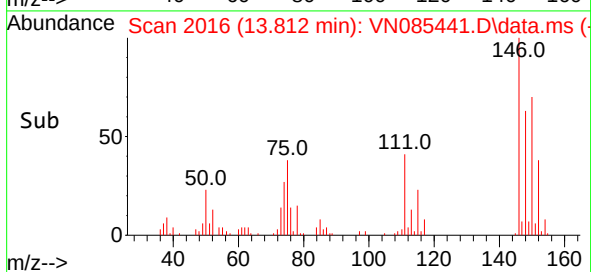
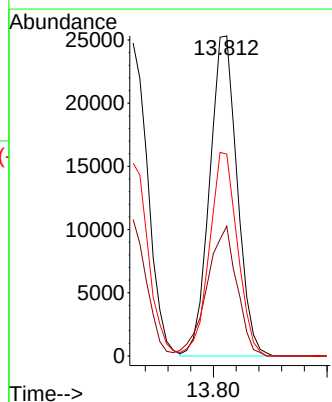
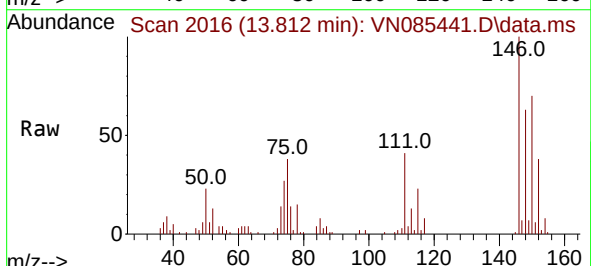
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

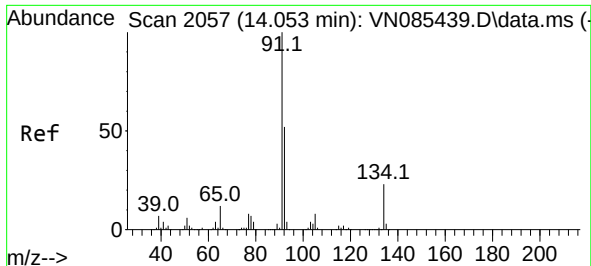
Tgt Ion:146 Resp: 41843
 Ion Ratio Lower Upper
 146 100
 111 43.1 21.4 64.3
 148 63.0 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 9.549 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion:146 Resp: 42728
 Ion Ratio Lower Upper
 146 100
 111 44.0 21.3 63.7
 148 64.6 32.4 97.0

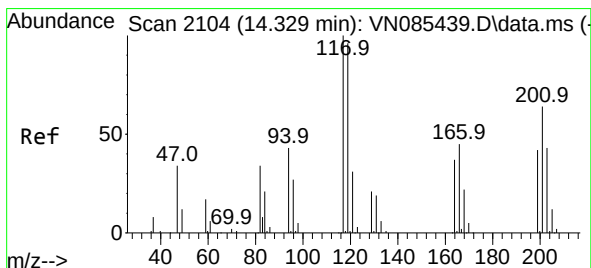
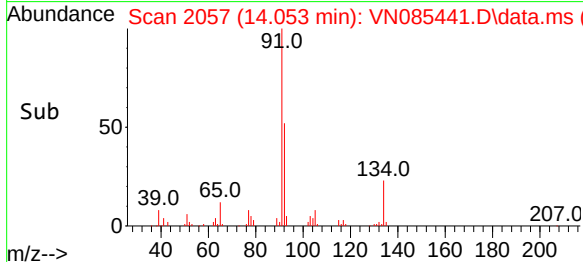
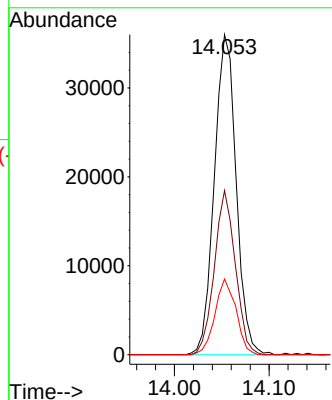
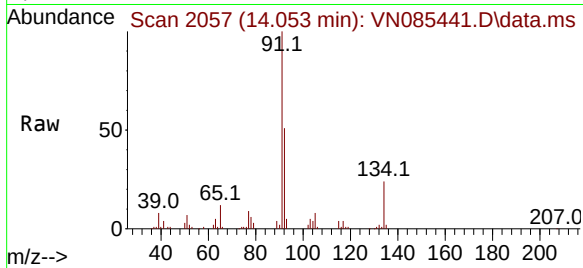




#89
n-Butylbenzene
Concen: 9.314 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

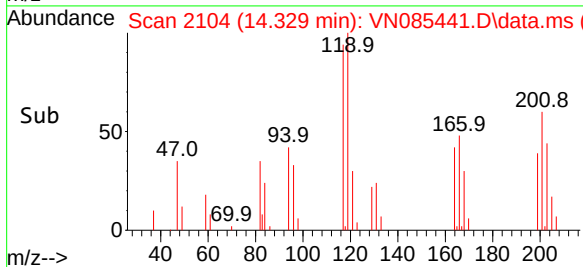
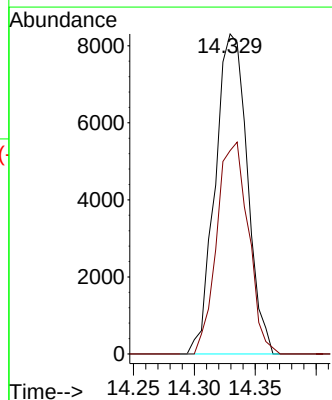
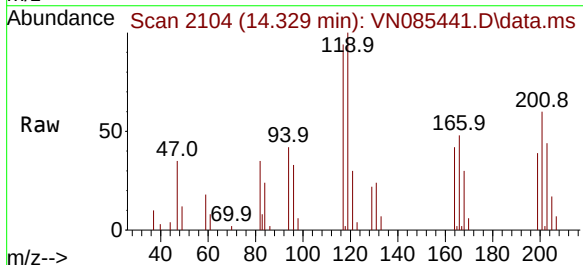
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

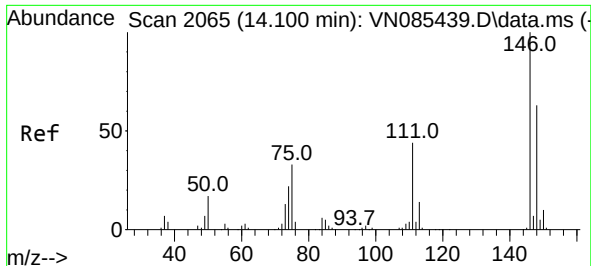
Tgt Ion: 91 Resp: 57632
Ion Ratio Lower Upper
91 100
92 49.2 25.8 77.3
134 22.8 11.7 35.1



#90
Hexachloroethane
Concen: 9.294 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 117 Resp: 15261
Ion Ratio Lower Upper
117 100
201 65.0 33.7 101.0

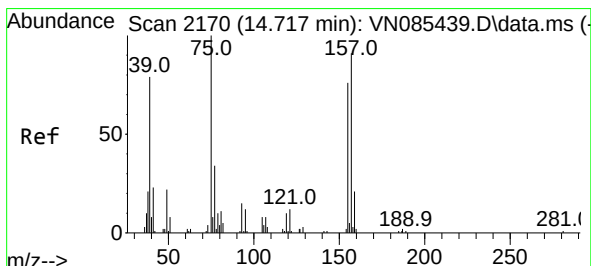
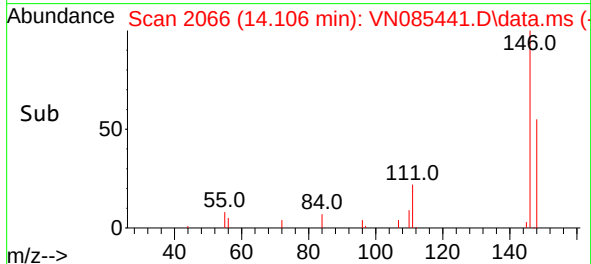
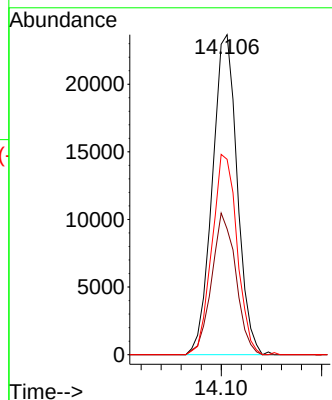
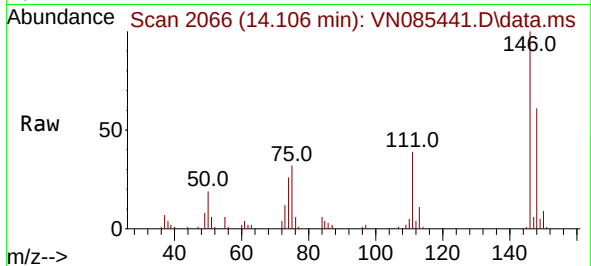




#91
1,2-Dichlorobenzene
Concen: 9.458 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

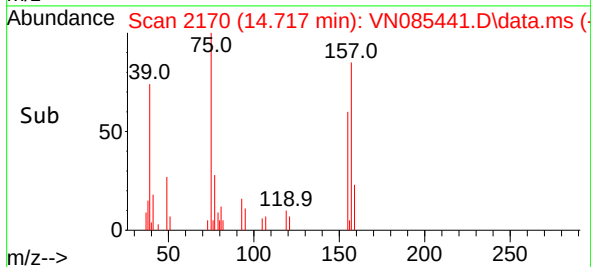
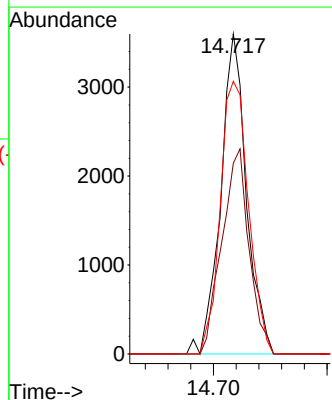
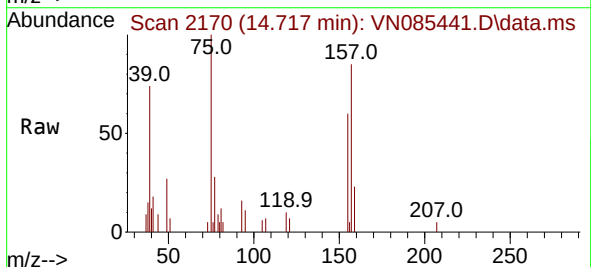
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

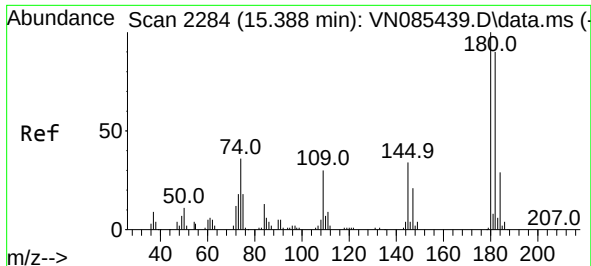
Tgt Ion:146 Resp: 40726
Ion Ratio Lower Upper
146 100
111 42.9 21.7 65.1
148 62.9 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 9.744 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085441.D
Acq: 14 Jan 2025 16:07

Tgt Ion: 75 Resp: 5639
Ion Ratio Lower Upper
75 100
155 67.9 36.4 109.2
157 94.1 45.4 136.1

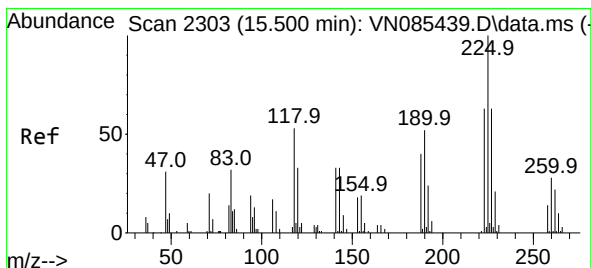
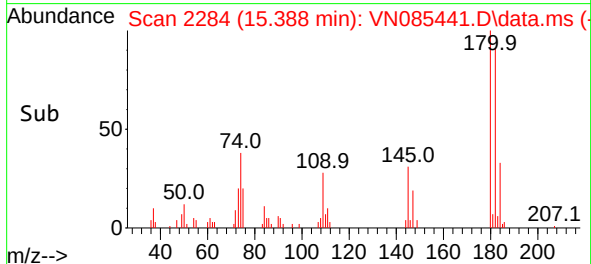
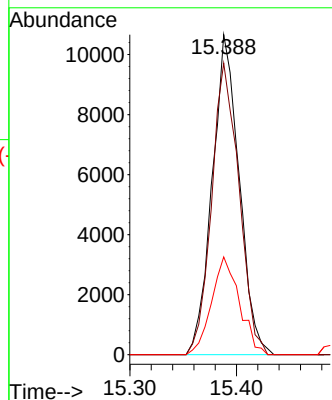
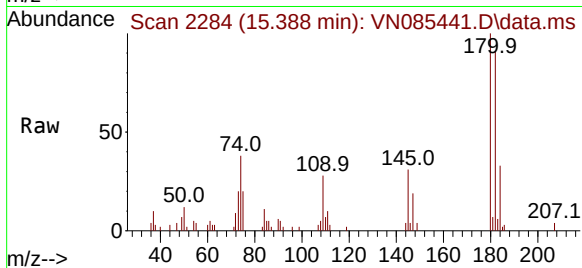




#93
 1,2,4-Trichlorobenzene
 Concen: 9.354 ug/l
 RT: 15.388 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

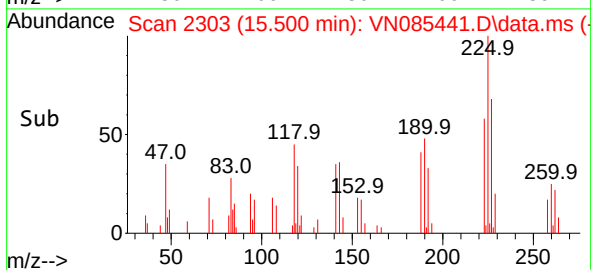
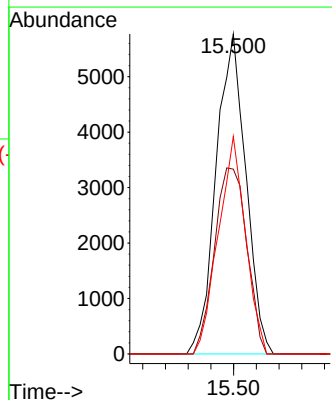
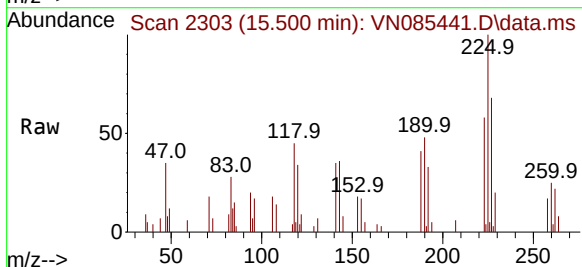
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

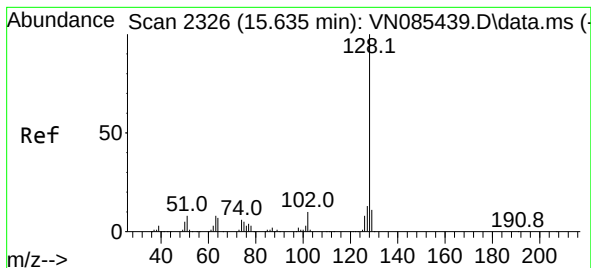
Tgt Ion:	180	Resp:	18720
Ion Ratio	Lower	Upper	
180	100		
182	92.4	46.8	140.3
145	31.7	16.0	48.0



#94
 Hexachlorobutadiene
 Concen: 9.874 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. 0.000 min
 Lab File: VN085441.D
 Acq: 14 Jan 2025 16:07

Tgt Ion:	225	Resp:	10491
Ion Ratio	Lower	Upper	
225	100		
223	63.3	30.7	92.1
227	62.1	30.9	92.5





#95

Naphthalene

Concen: 8.717 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

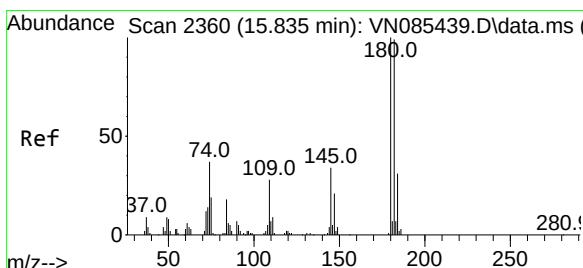
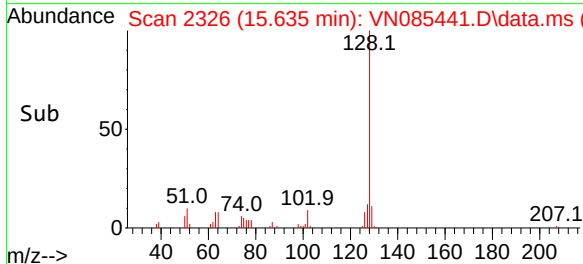
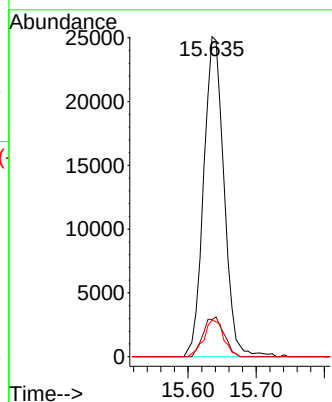
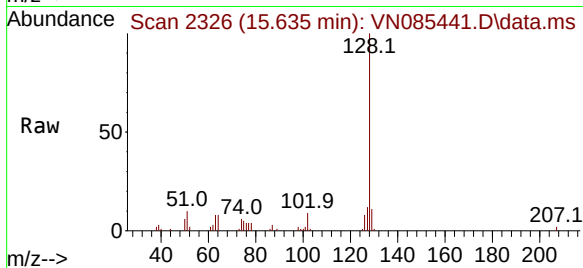
Tgt Ion:128 Resp: 52054

Ion Ratio Lower Upper

128 100

127 12.6 10.6 16.0

129 11.2 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 9.605 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085441.D

Acq: 14 Jan 2025 16:07

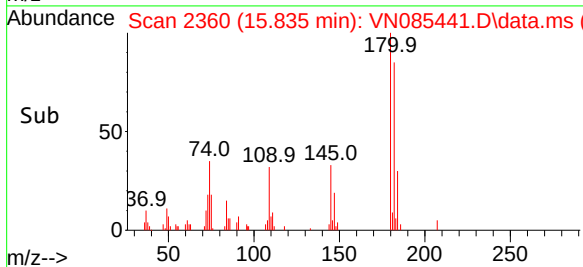
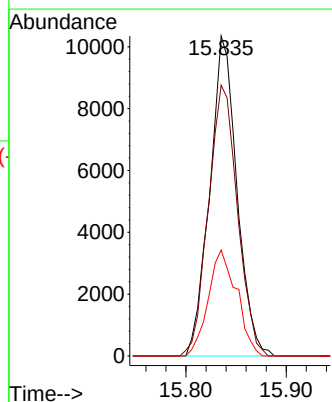
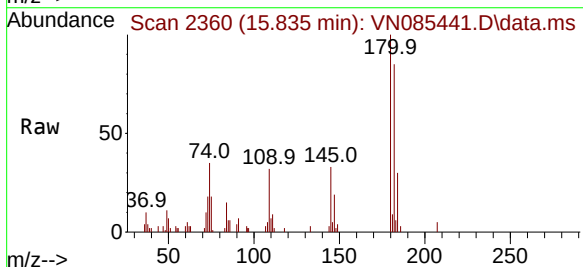
Tgt Ion:180 Resp: 19450

Ion Ratio Lower Upper

180 100

182 90.3 47.4 142.2

145 34.7 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085442.D
 Acq On : 14 Jan 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Jan 15 01:45:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	186556	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	282203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126086	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	17046	5.660	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	11.320%#
35) Dibromofluoromethane	8.165	113	12102	5.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.760%#
50) Toluene-d8	10.565	98	41328	5.168	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.340%#
62) 4-Bromofluorobenzene	12.847	95	13520	4.943	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	9.880%#

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	13199	5.225	ug/l	97
3) Chloromethane	2.359	50	14526	5.311	ug/l	96
4) Vinyl Chloride	2.512	62	14564	5.298	ug/l	98
5) Bromomethane	2.953	94	9788	5.895	ug/l	98
6) Chloroethane	3.124	64	9430	5.411	ug/l	99
7) Trichlorofluoromethane	3.501	101	20098	5.039	ug/l	92
8) Diethyl Ether	3.959	74	6652	4.828	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	11917	5.305	ug/l	97
10) Methyl Iodide	4.583	142	12331	4.793	ug/l	99
11) Tert butyl alcohol	5.518	59	9075	26.318	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	10429	5.209	ug/l	96
13) Acrolein	4.171	56	9430	20.033	ug/l	97
14) Allyl chloride	5.030	41	16741	5.153	ug/l	97
15) Acrylonitrile	5.718	53	27869	25.445	ug/l	97
16) Acetone	4.430	43	25122	25.819	ug/l	97
17) Carbon Disulfide	4.706	76	32068	5.202	ug/l	96
18) Methyl Acetate	5.024	43	15106	5.106	ug/l	97
19) Methyl tert-butyl Ether	5.800	73	31439	4.836	ug/l	94
20) Methylene Chloride	5.271	84	12981	5.389	ug/l #	83
21) trans-1,2-Dichloroethene	5.783	96	10614	4.960	ug/l #	78
22) Diisopropyl ether	6.665	45	35785	4.962	ug/l #	96
23) Vinyl Acetate	6.600	43	139425	27.533	ug/l	96
24) 1,1-Dichloroethane	6.565	63	22865	5.200	ug/l	99
25) 2-Butanone	7.483	43	36127	25.231	ug/l	99
26) 2,2-Dichloropropane	7.488	77	18398	5.175	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	12477	4.951	ug/l	99
28) Bromochloromethane	7.806	49	11096	5.424	ug/l	99
29) Tetrahydrofuran	7.841	42	21983	24.215	ug/l	99
30) Chloroform	7.959	83	23384	5.146	ug/l	98
31) Cyclohexane	8.247	56	22343	5.846	ug/l #	92
32) 1,1,1-Trichloroethane	8.159	97	21416	5.372	ug/l	91
36) 1,1-Dichloropropene	8.371	75	15886	5.029	ug/l	96
37) Ethyl Acetate	7.553	43	15336	4.810	ug/l	100
38) Carbon Tetrachloride	8.359	117	18317	5.065	ug/l	96
39) Methylcyclohexane	9.600	83	14175	4.776	ug/l	98
40) Benzene	8.600	78	47833	5.040	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085442.D
 Acq On : 14 Jan 2025 16:31
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Jan 15 01:45:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	7380	4.449	ug/l	96
42) 1,2-Dichloroethane	8.671	62	18628	5.211	ug/l	98
43) Isopropyl Acetate	8.688	43	24792	4.853	ug/l	98
44) Trichloroethene	9.347	130	11133	5.039	ug/l	86
45) 1,2-Dichloropropane	9.618	63	12591	5.194	ug/l	92
46) Dibromomethane	9.700	93	8230	4.705	ug/l	91
47) Bromodichloromethane	9.888	83	18456	5.179	ug/l #	96
48) Methyl methacrylate	9.677	41	10574	4.599	ug/l	95
49) 1,4-Dioxane	9.694	88	3619	93.477	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	71889	24.250	ug/l	98
52) Toluene	10.629	92	27098	4.928	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	17099	5.077	ug/l	95
54) cis-1,3-Dichloropropene	10.306	75	17440	4.848	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	11311	5.197	ug/l	96
56) Ethyl methacrylate	10.871	69	14094	5.627	ug/l	94
57) 1,3-Dichloropropane	11.159	76	18945	5.006	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	33210	24.047	ug/l	97
59) 2-Hexanone	11.194	43	49021	23.501	ug/l	94
60) Dibromochloromethane	11.353	129	13635	5.190	ug/l	96
61) 1,2-Dibromoethane	11.471	107	10419	4.810	ug/l	98
64) Tetrachloroethene	11.100	164	9756	5.071	ug/l	91
65) Chlorobenzene	11.888	112	31312	5.065	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	11620	5.121	ug/l	98
67) Ethyl Benzene	11.965	91	48216	4.789	ug/l	98
68) m/p-Xylenes	12.065	106	34771	9.344	ug/l	99
69) o-Xylene	12.394	106	16419	4.617	ug/l	98
70) Styrene	12.412	104	26218	4.454	ug/l	99
71) Bromoform	12.576	173	8017	4.938	ug/l #	99
73) Isopropylbenzene	12.694	105	39811	4.678	ug/l	99
74) N-amyl acetate	12.488	43	17577	4.595	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.935	83	15483	5.151	ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	18624	7.279	ug/l	48
77) Bromobenzene	12.982	156	11091	4.989	ug/l	99
78) n-propylbenzene	13.035	91	45450	4.512	ug/l	99
79) 2-Chlorotoluene	13.123	91	31932	4.898	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	31891	4.537	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	4229	4.465	ug/l	90
82) 4-Chlorotoluene	13.218	91	31976	4.926	ug/l	100
83) tert-Butylbenzene	13.435	119	27597	4.675	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	32054	4.575	ug/l	98
85) sec-Butylbenzene	13.612	105	38148	4.663	ug/l	98
86) p-Isopropyltoluene	13.723	119	29856	4.584	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	20876	5.099	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21982	5.179	ug/l	97
89) n-Butylbenzene	14.053	91	27437	4.675	ug/l	96
90) Hexachloroethane	14.329	117	7767	4.987	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	20177	4.940	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.729	75	2872	5.232	ug/l	90
93) 1,2,4-Trichlorobenzene	15.388	180	9037	4.761	ug/l	94
94) Hexachlorobutadiene	15.500	225	5563	5.520	ug/l	98
95) Naphthalene	15.641	128	25047	4.422	ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	8737	4.549	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085442.D
Acq On : 14 Jan 2025 16:31
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

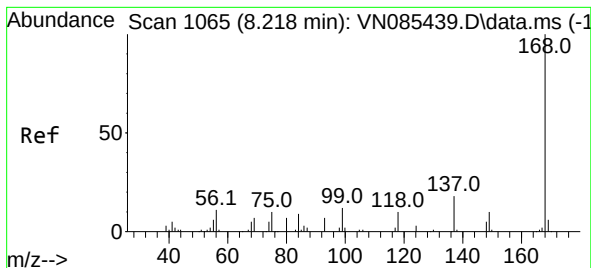
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

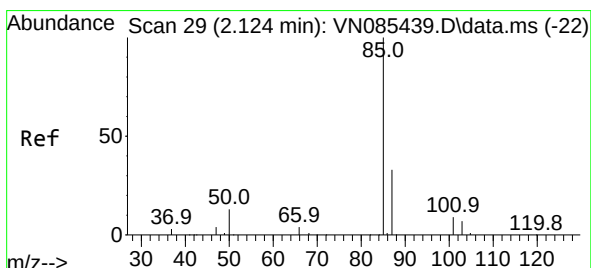
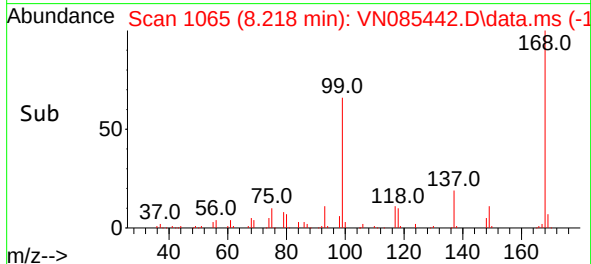
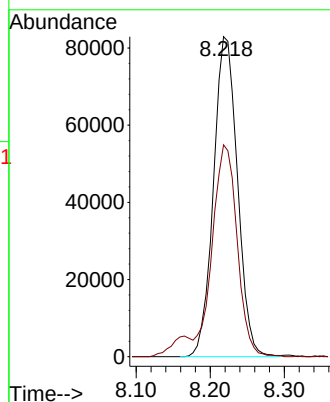
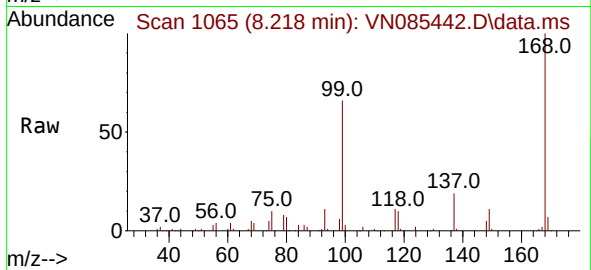
[illegible]



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

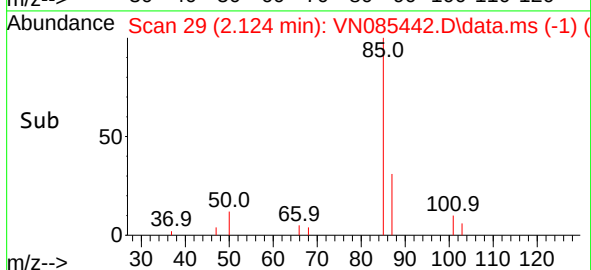
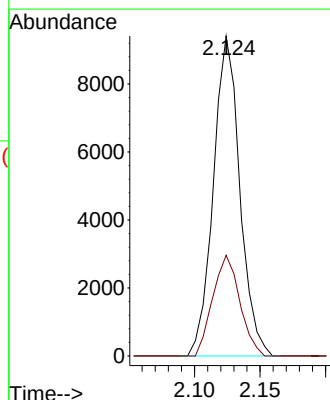
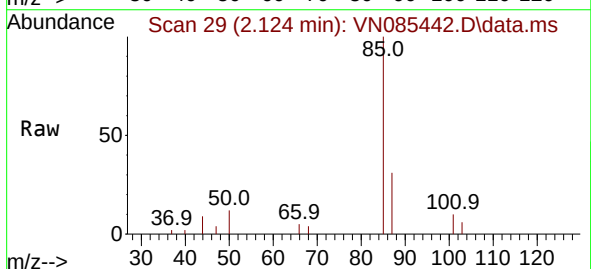
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

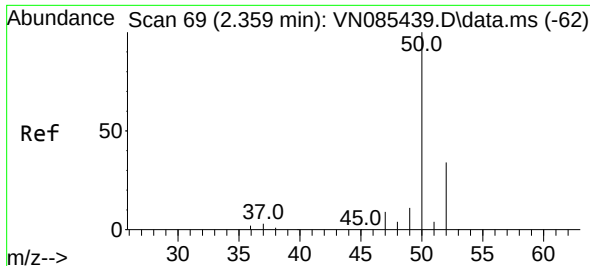
Tgt Ion:168 Resp: 186556
Ion Ratio Lower Upper
168 100
99 65.9 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 5.225 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 85 Resp: 13199
Ion Ratio Lower Upper
85 100
87 31.5 16.7 50.1

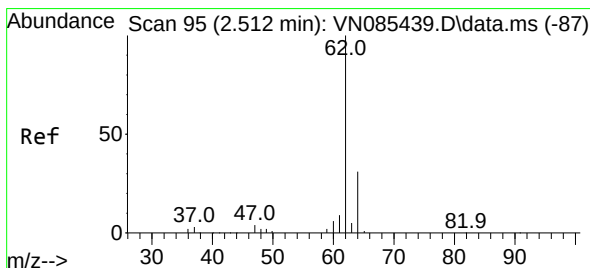
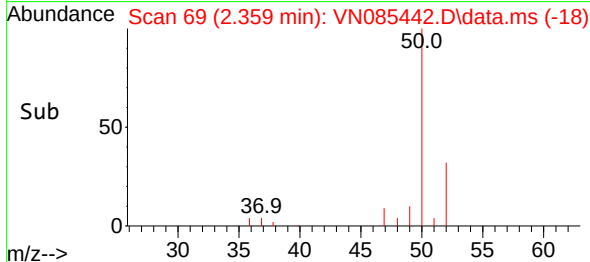
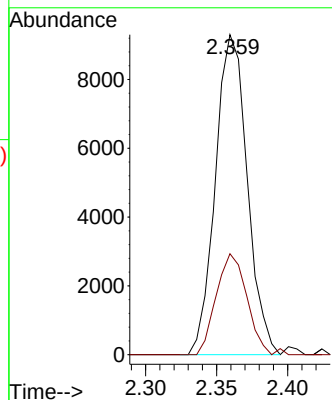
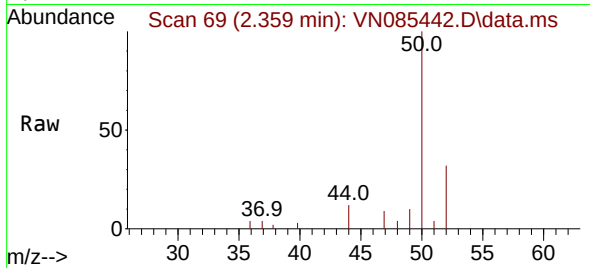




#3
Chloromethane
Concen: 5.311 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

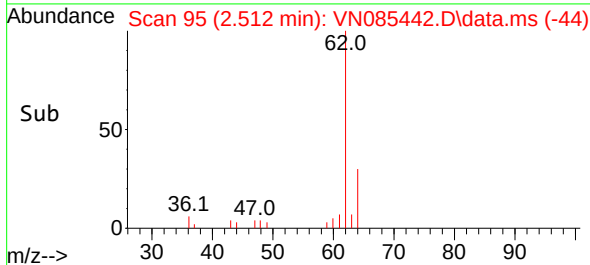
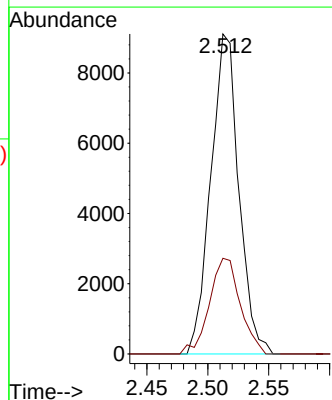
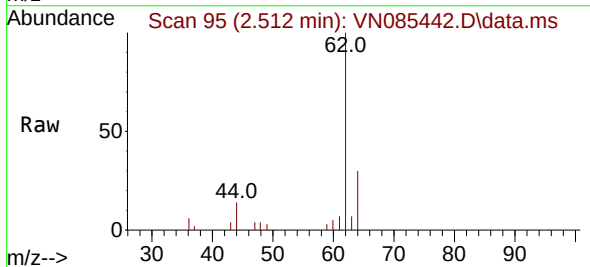
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

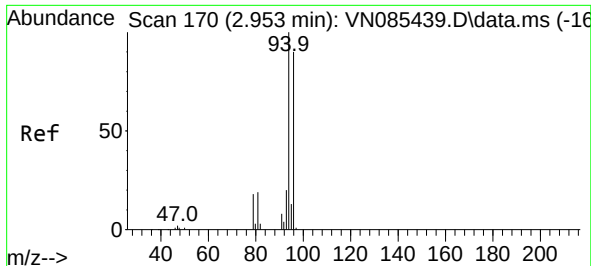
Tgt Ion: 50 Resp: 14526
Ion Ratio Lower Upper
50 100
52 31.6 27.0 40.6



#4
Vinyl Chloride
Concen: 5.298 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 14564
Ion Ratio Lower Upper
62 100
64 29.9 24.8 37.2

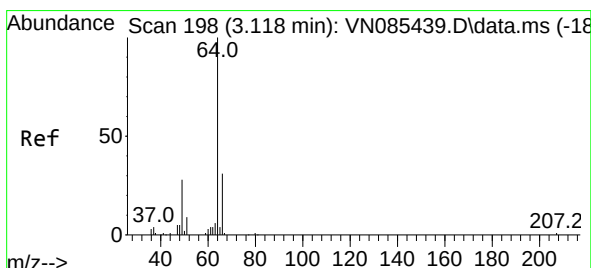
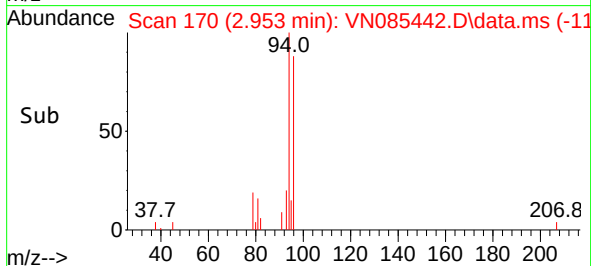
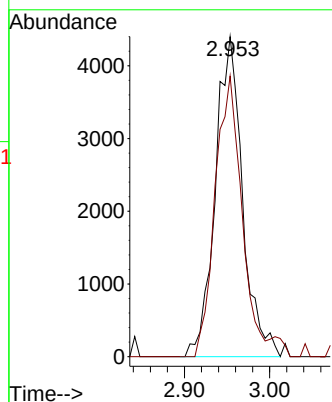
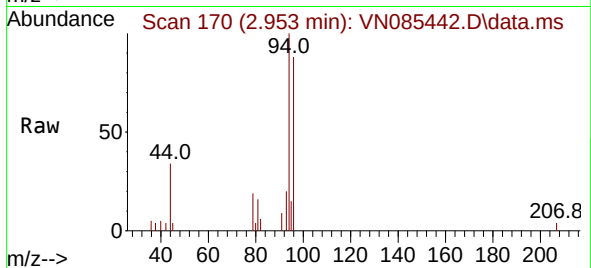




#5
Bromomethane
Concen: 5.895 ug/l
RT: 2.953 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

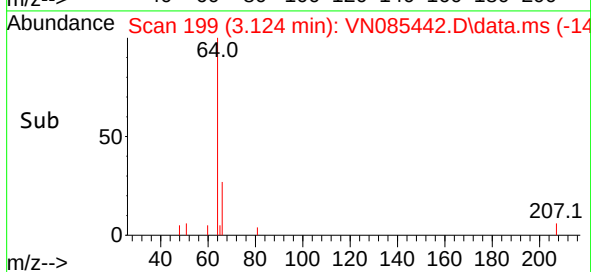
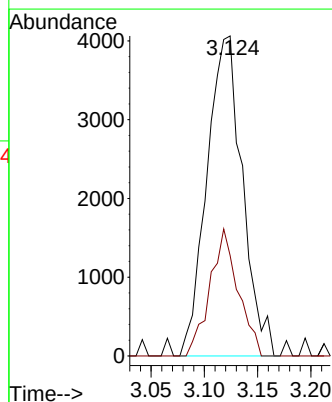
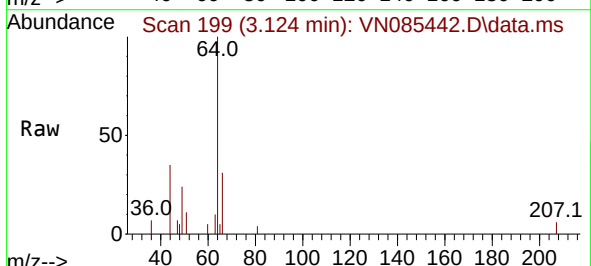
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

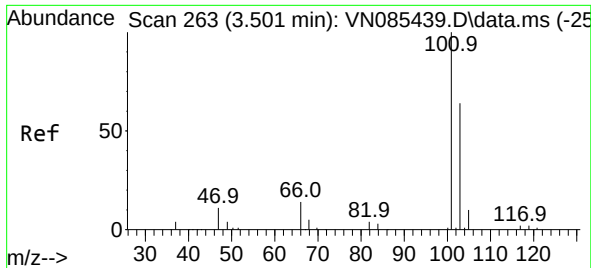
Tgt Ion: 94 Resp: 9788
Ion Ratio Lower Upper
94 100
96 87.7 71.8 107.6



#6
Chloroethane
Concen: 5.411 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 64 Resp: 9430
Ion Ratio Lower Upper
64 100
66 31.4 24.6 36.8

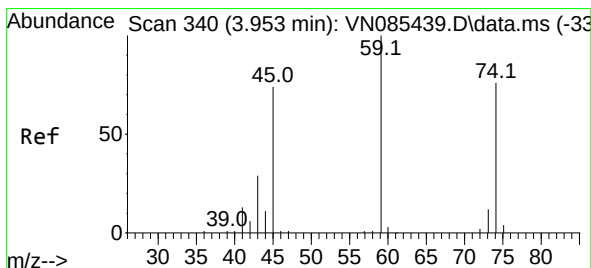
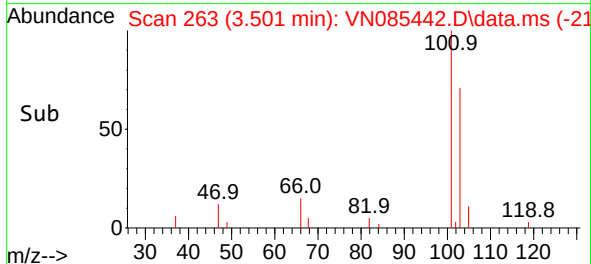
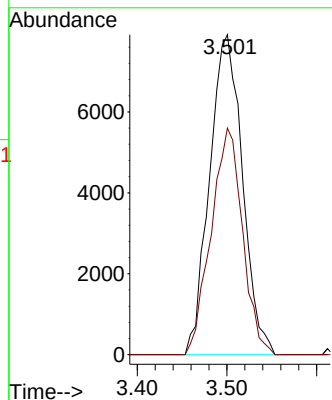
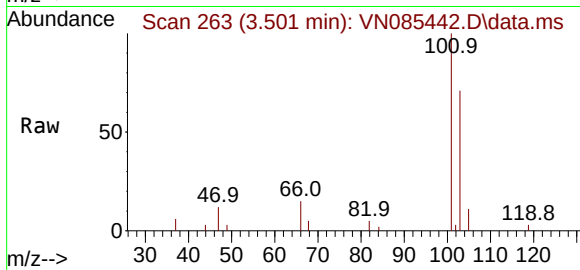




#7
 Trichlorofluoromethane
 Concen: 5.039 ug/l
 RT: 3.501 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

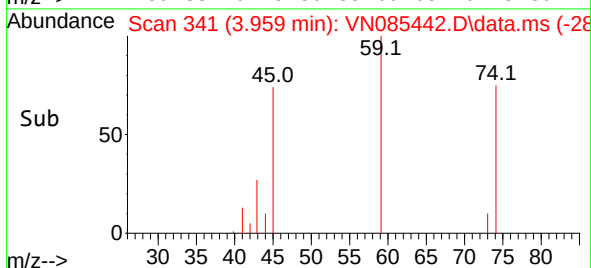
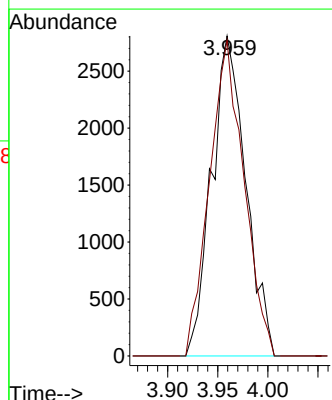
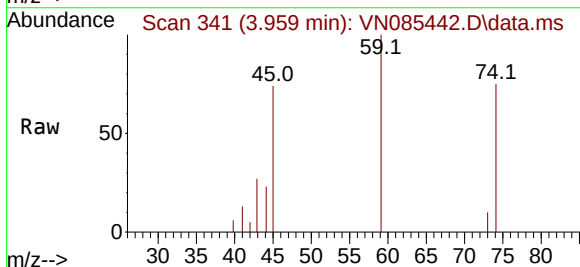
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

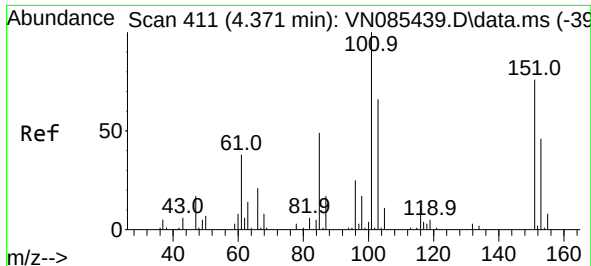
Tgt Ion:101 Resp: 20098
 Ion Ratio Lower Upper
 101 100
 103 70.8 51.4 77.2



#8
 Diethyl Ether
 Concen: 4.828 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion: 74 Resp: 6652
 Ion Ratio Lower Upper
 74 100
 45 99.5 49.7 149.1

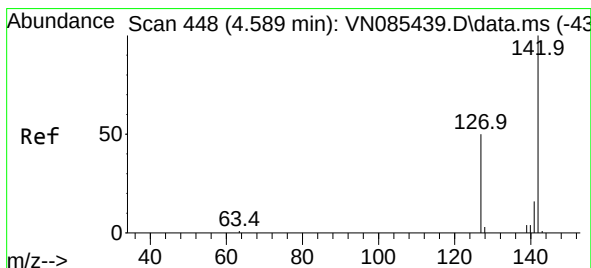
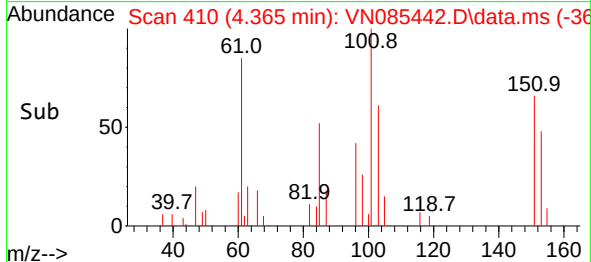
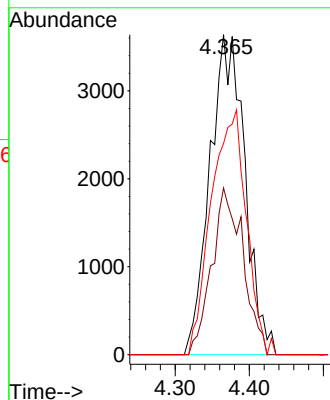
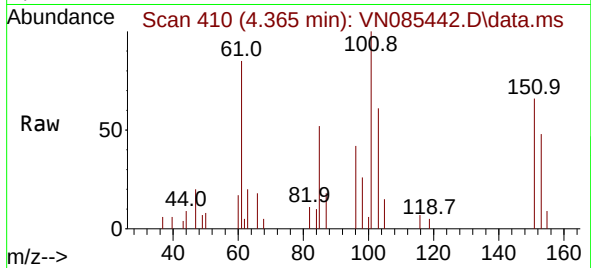




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.305 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

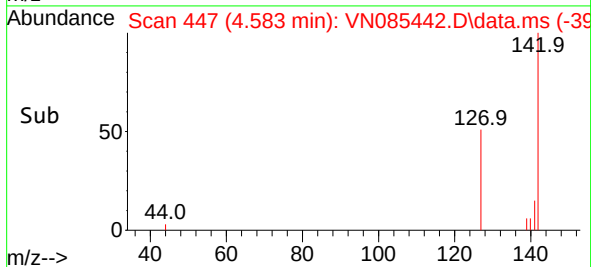
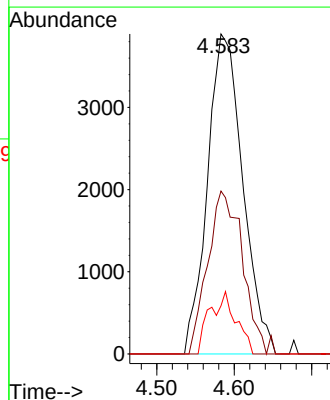
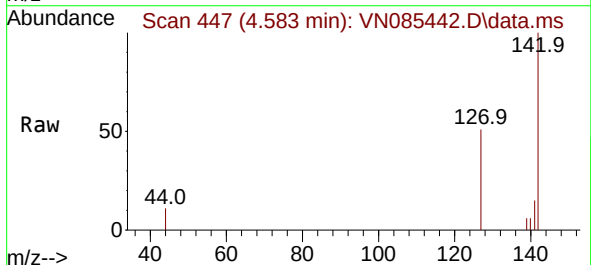
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

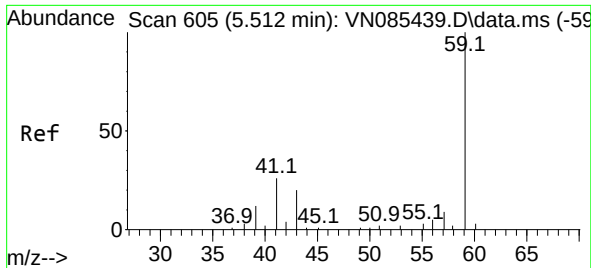
Tgt Ion:101 Resp: 11917
Ion Ratio Lower Upper
101 100
85 46.5 37.8 56.8
151 76.7 58.8 88.2



#10
Methyl Iodide
Concen: 4.793 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:142 Resp: 12331
Ion Ratio Lower Upper
142 100
127 50.9 40.3 60.5
141 15.0 12.8 19.2

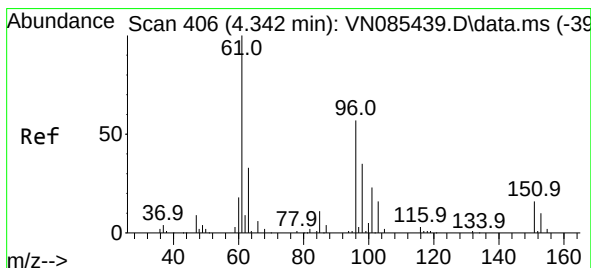
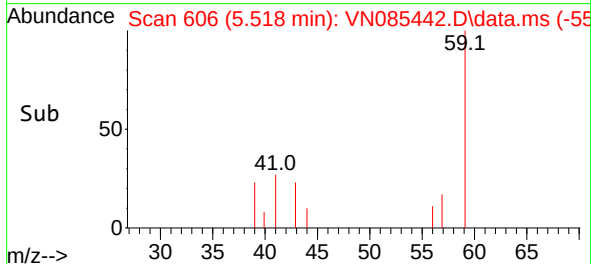
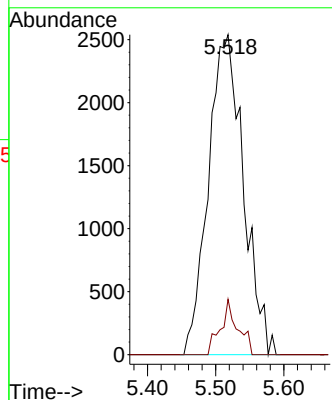
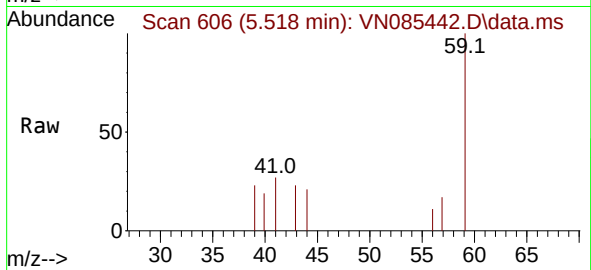




#11
Tert butyl alcohol
Concen: 26.318 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

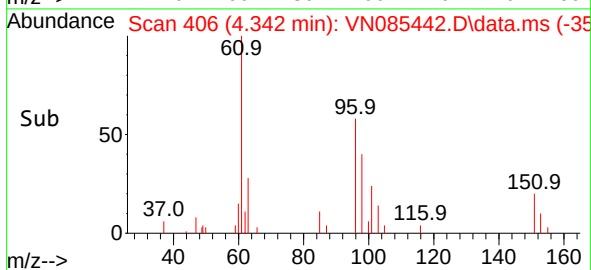
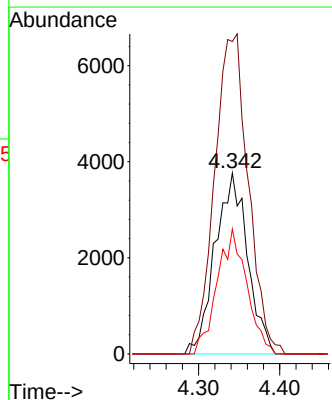
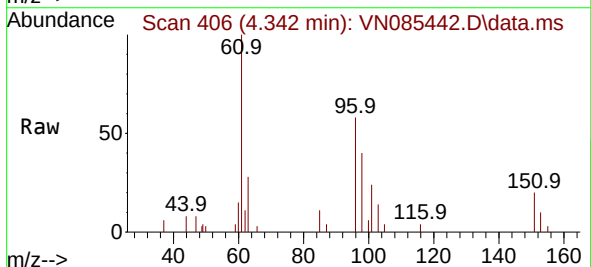
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

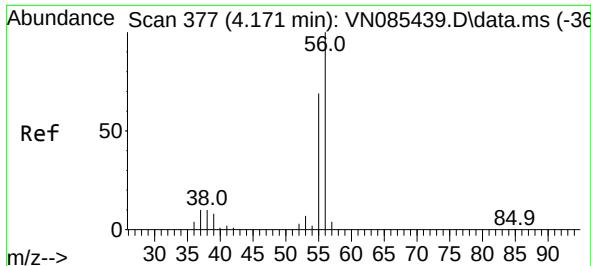
Tgt Ion: 59 Resp: 9075
Ion Ratio Lower Upper
59 100
57 8.5 8.6 13.0#



#12
1,1-Dichloroethene
Concen: 5.209 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 96 Resp: 10429
Ion Ratio Lower Upper
96 100
61 172.7 141.0 211.4
98 69.0 49.0 73.6





#13

Acrolein

Concen: 20.033 ug/l

RT: 4.171 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

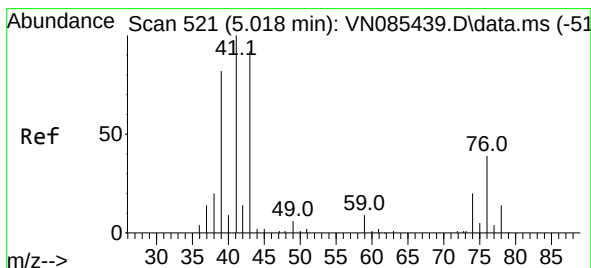
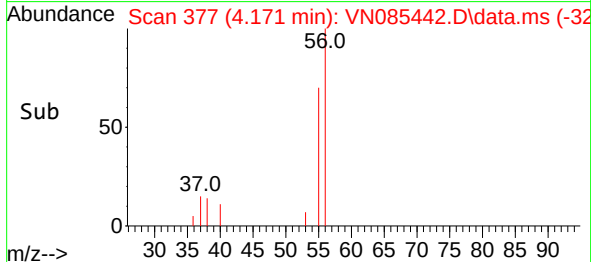
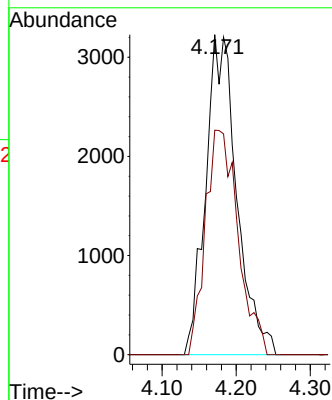
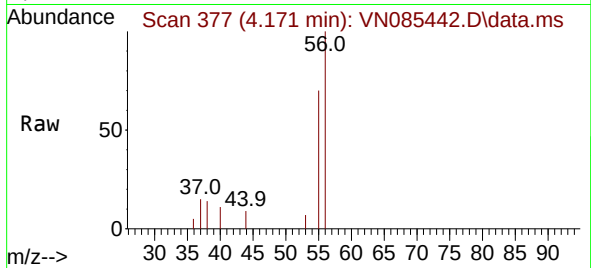
VSTDIC005

Tgt Ion: 56 Resp: 9430

Ion Ratio Lower Upper

56 100

55 73.2 56.3 84.5



#14

Allyl chloride

Concen: 5.153 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

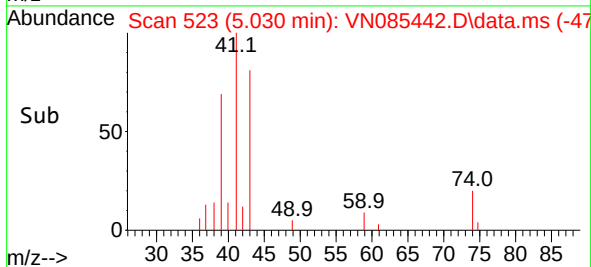
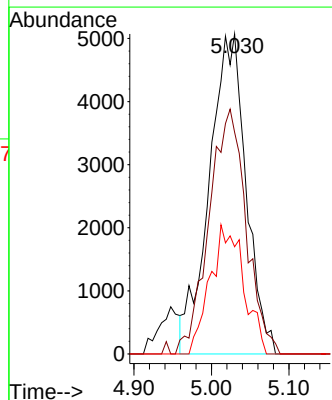
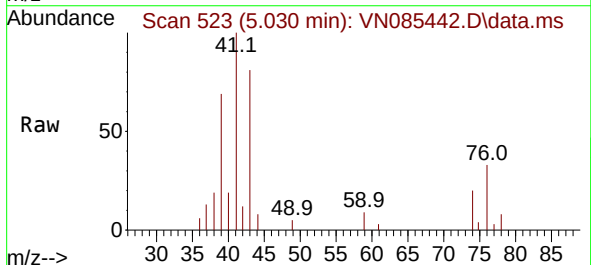
Tgt Ion: 41 Resp: 16741

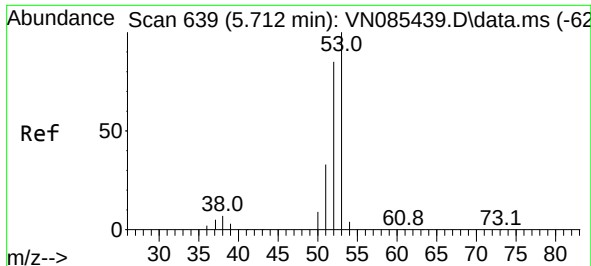
Ion Ratio Lower Upper

41 100

39 77.4 64.4 96.6

76 36.6 30.5 45.7

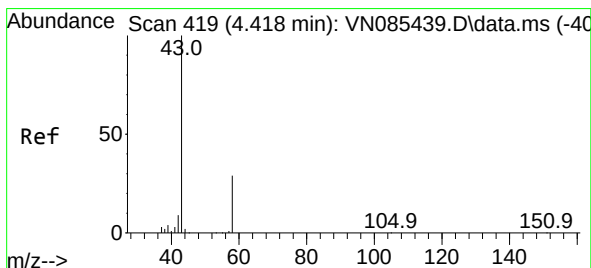
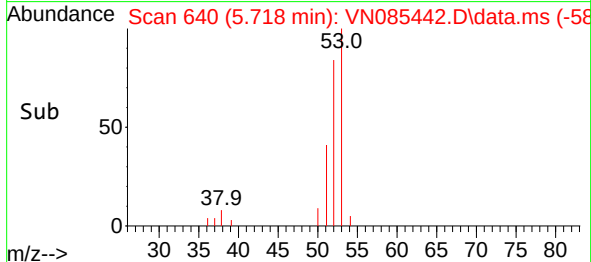
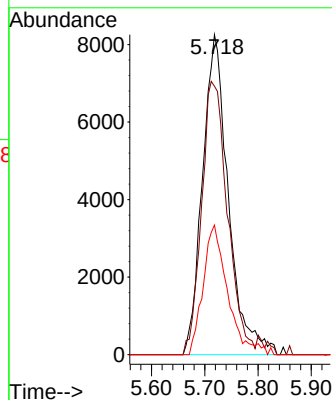
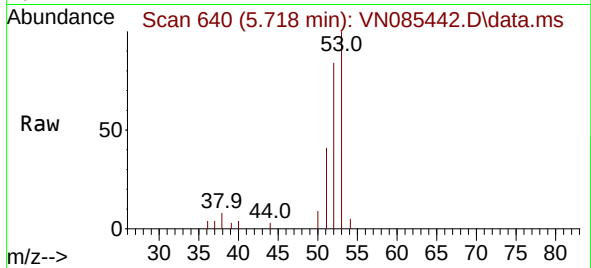




#15
Acrylonitrile
Concen: 25.445 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

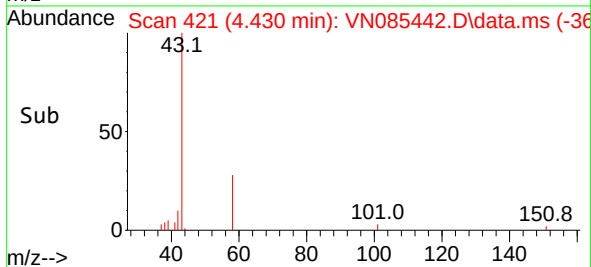
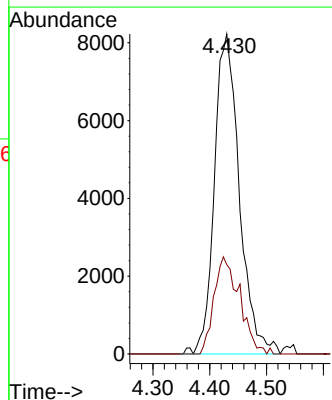
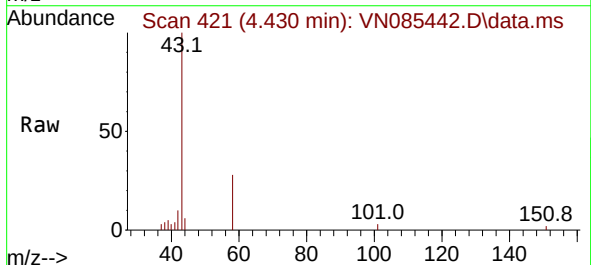
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

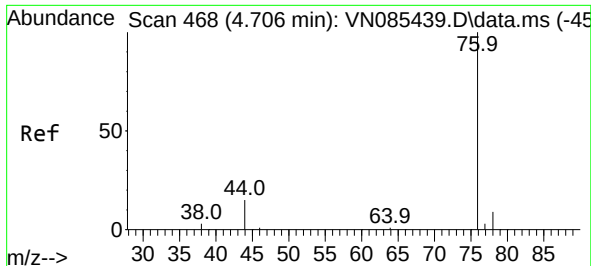
Tgt Ion: 53	Resp:	27869
Ion	Ratio	Lower Upper
53	100	
52	85.5	65.5 98.3
51	38.5	29.8 44.8



#16
Acetone
Concen: 25.819 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43	Resp:	25122
Ion	Ratio	Lower Upper
43	100	
58	27.9	23.8 35.6

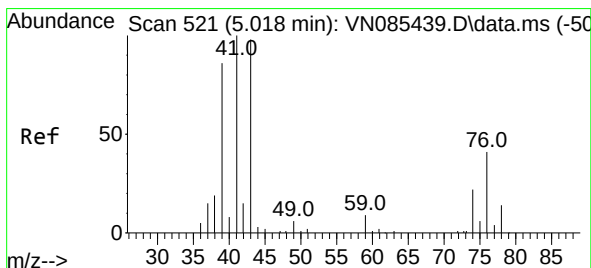
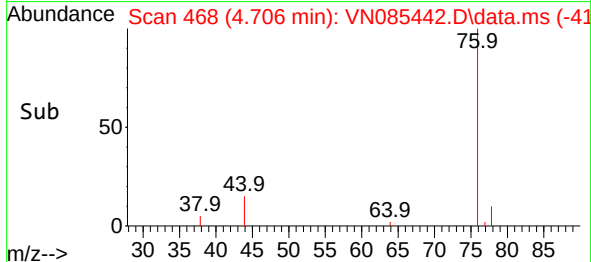
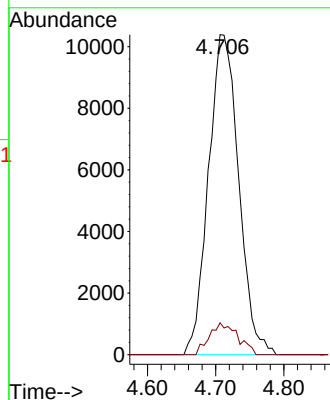
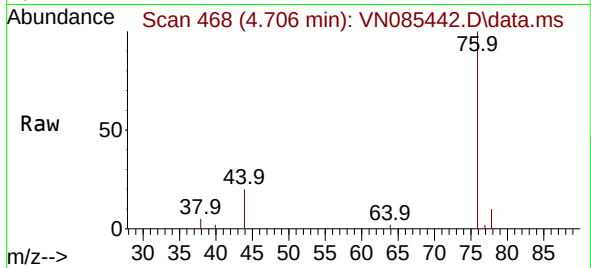




#17
Carbon Disulfide
Concen: 5.202 ug/l
RT: 4.706 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

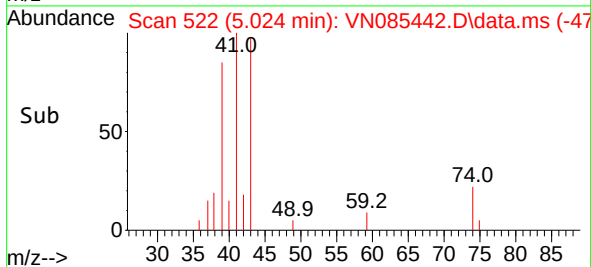
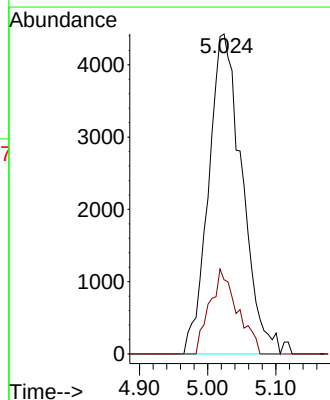
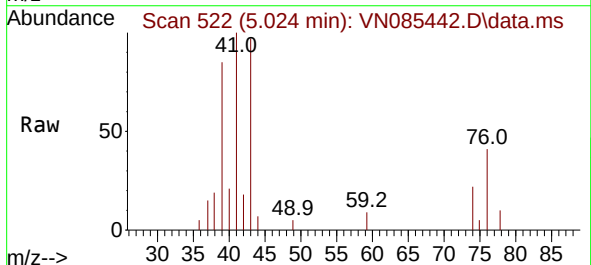
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

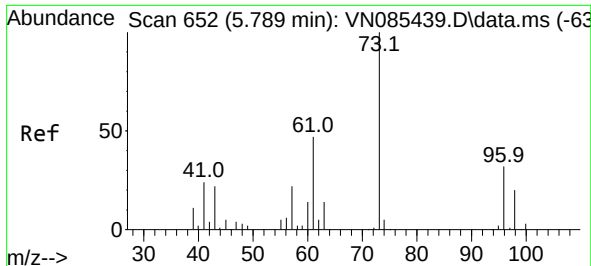
Tgt Ion: 76 Resp: 32068
Ion Ratio Lower Upper
76 100
78 9.9 6.9 10.3



#18
Methyl Acetate
Concen: 5.106 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 15106
Ion Ratio Lower Upper
43 100
74 22.0 18.6 28.0

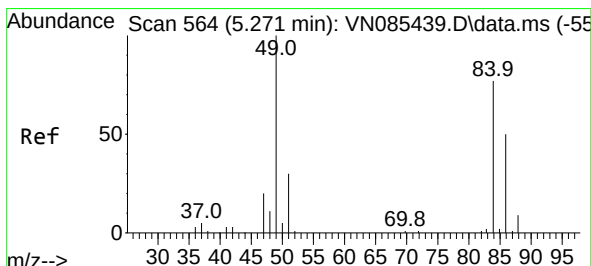
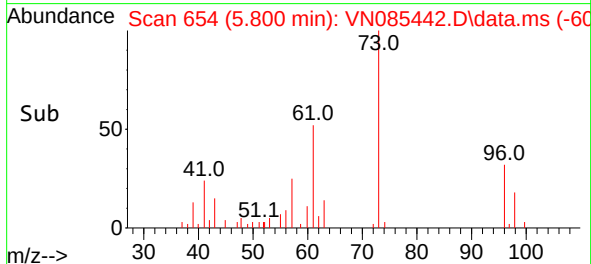
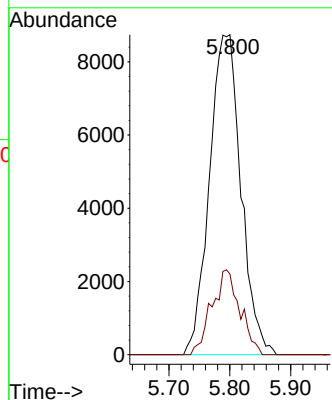
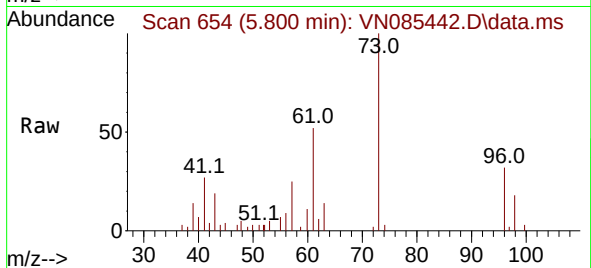




#19
Methyl tert-butyl Ether
Concen: 4.836 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

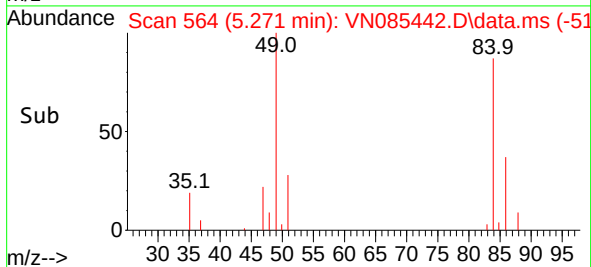
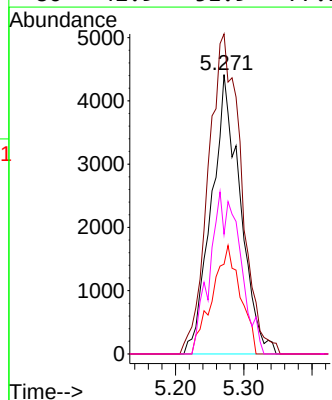
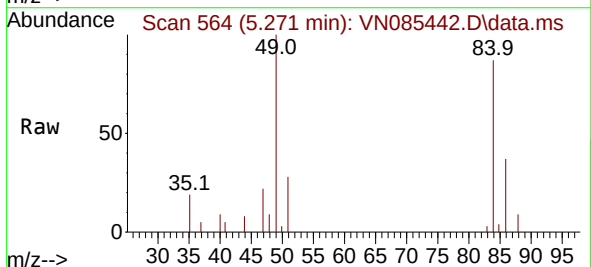
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

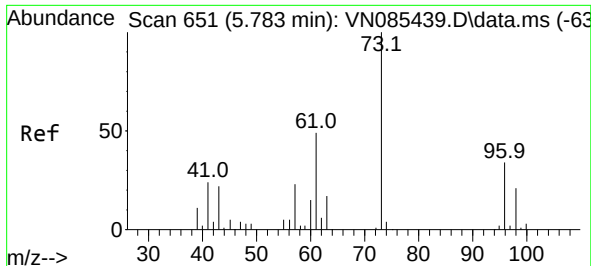
Tgt Ion: 73 Resp: 31439
Ion Ratio Lower Upper
73 100
57 25.2 17.8 26.8



#20
Methylene Chloride
Concen: 5.389 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 84 Resp: 12981
Ion Ratio Lower Upper
84 100
49 114.5 104.1 156.1
51 32.1 31.0 46.4
86 42.9 51.9 77.9#

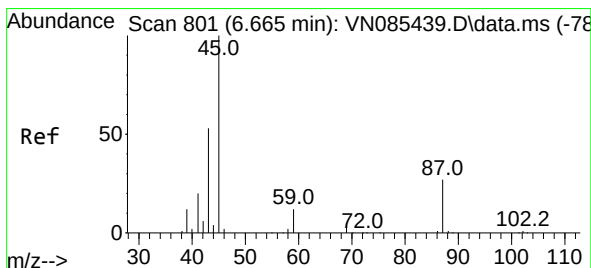
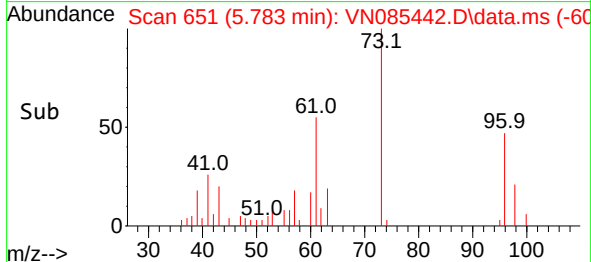
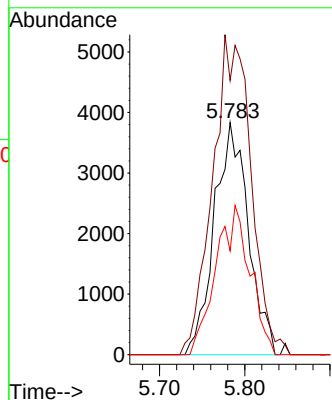
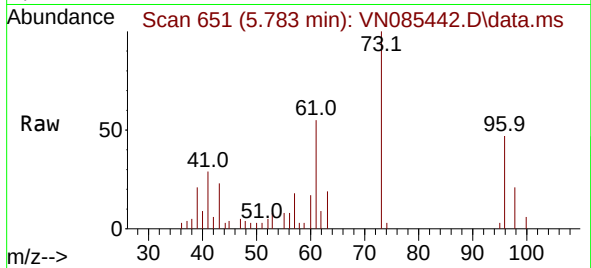




#21
trans-1,2-Dichloroethene
Concen: 4.960 ug/l
RT: 5.783 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

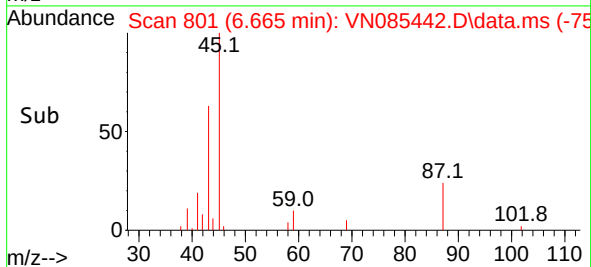
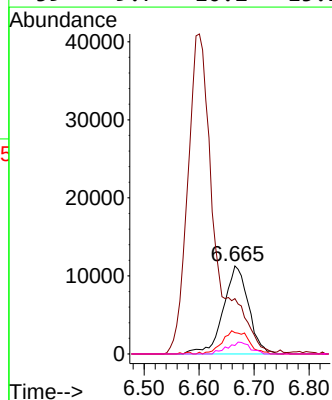
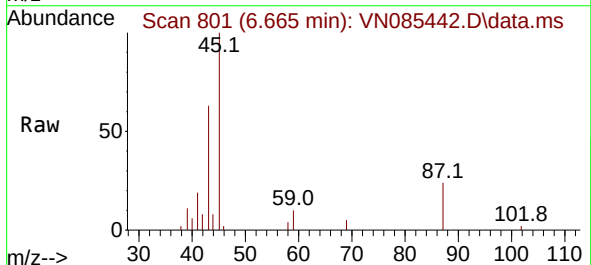
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

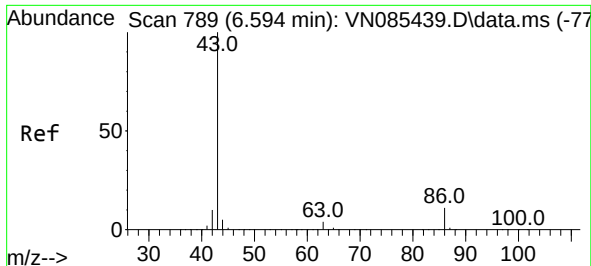
Tgt Ion: 96 Resp: 10614
Ion Ratio Lower Upper
96 100
61 118.1 115.7 173.5
98 44.7 49.8 74.8#



#22
Diisopropyl ether
Concen: 4.962 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 45 Resp: 35785
Ion Ratio Lower Upper
45 100
43 58.3 45.0 67.6
87 24.2 21.8 32.8
59 9.7 10.2 15.2#

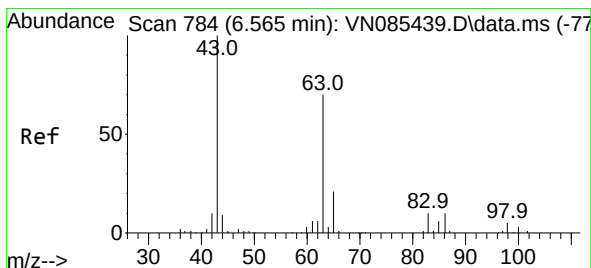
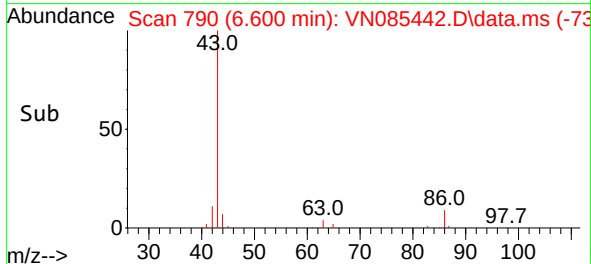
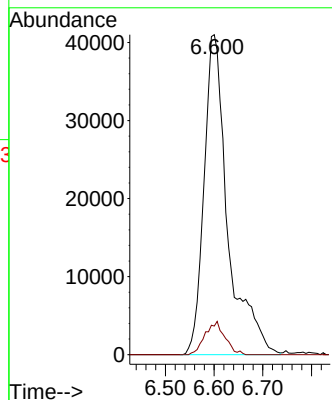
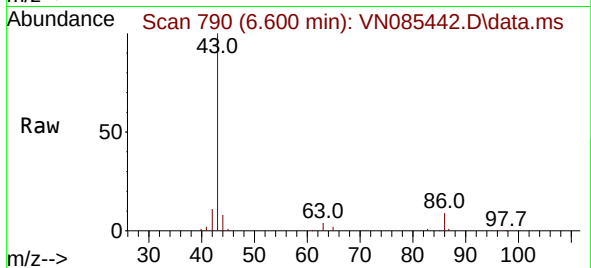




#23
 Vinyl Acetate
 Concen: 27.533 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

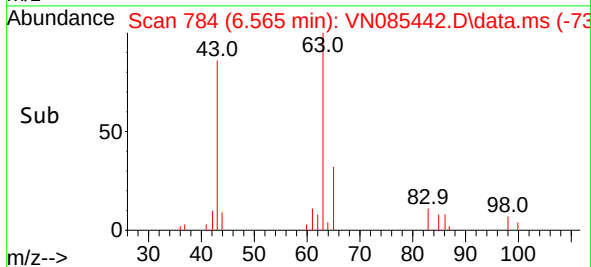
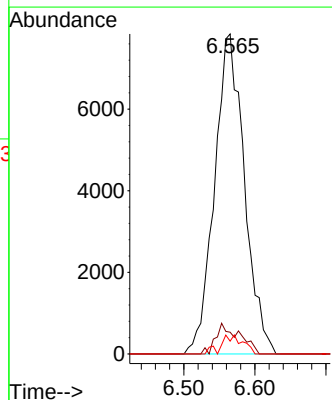
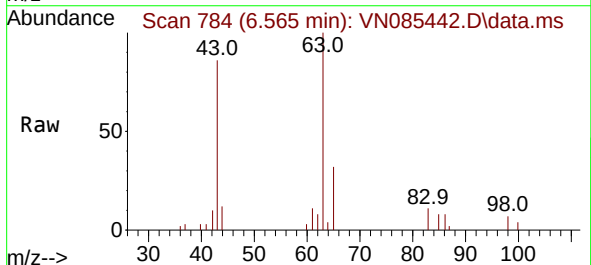
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

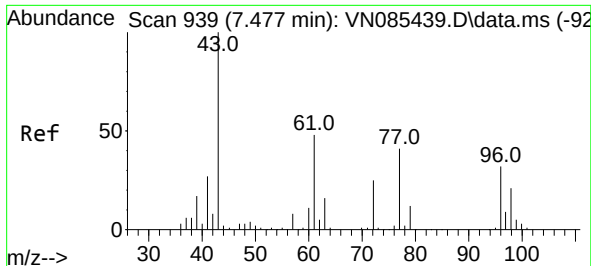
Tgt Ion: 43 Resp: 139425
 Ion Ratio Lower Upper
 43 100
 86 9.0 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 5.200 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. 0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion: 63 Resp: 22865
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.3 9.8
 100 4.0 2.0 6.0

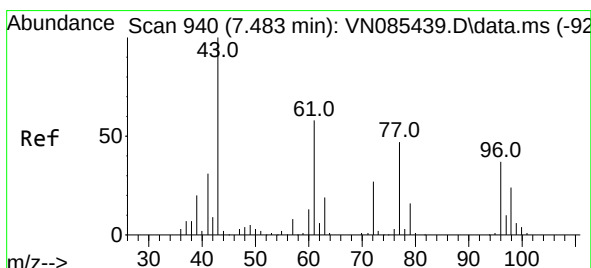
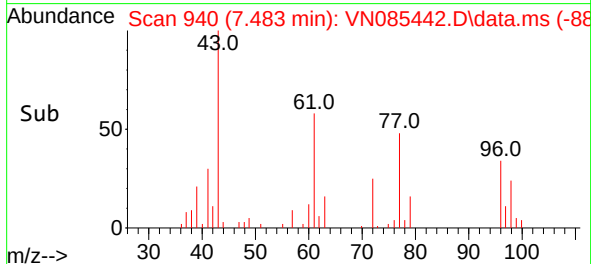
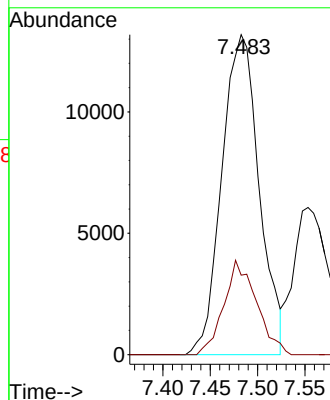
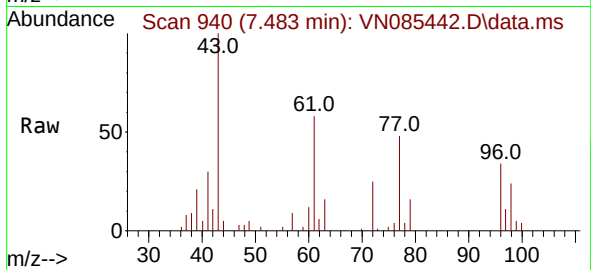




#25
2-Butanone
Concen: 25.231 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

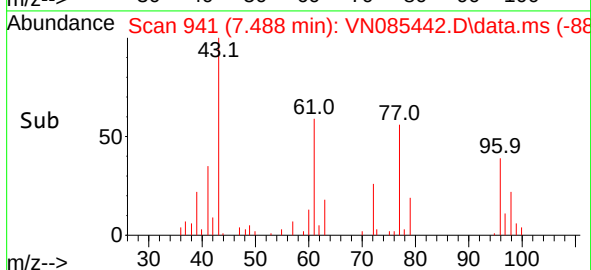
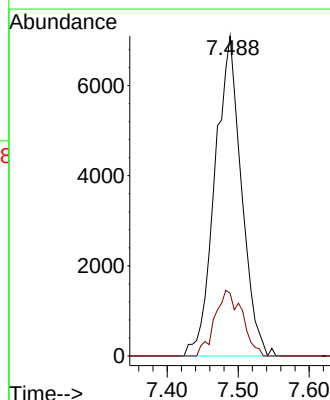
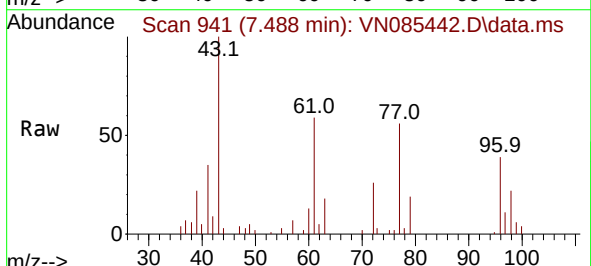
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

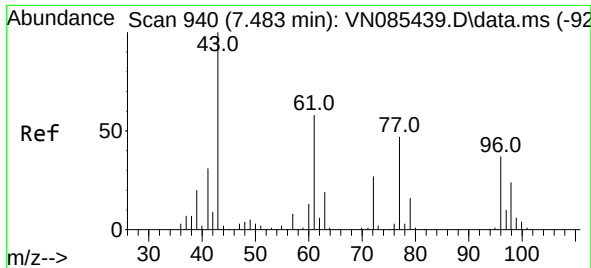
Tgt Ion: 43 Resp: 36127
Ion Ratio Lower Upper
43 100
72 24.9 20.2 30.4



#26
2,2-Dichloropropane
Concen: 5.175 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 77 Resp: 18398
Ion Ratio Lower Upper
77 100
97 21.2 10.7 32.1

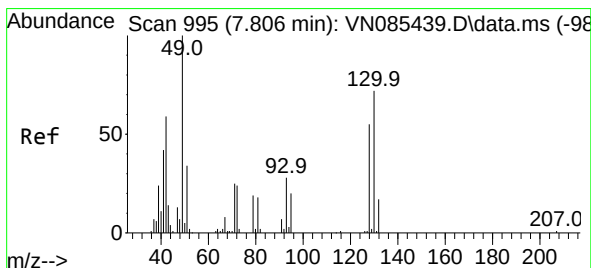
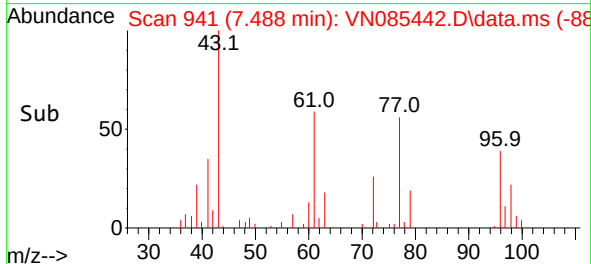
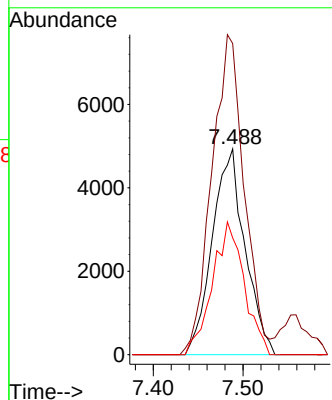
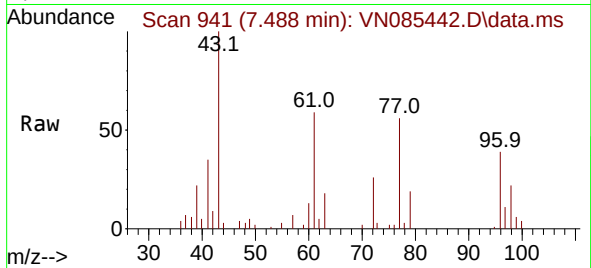




#27
 cis-1,2-Dichloroethene
 Concen: 4.951 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

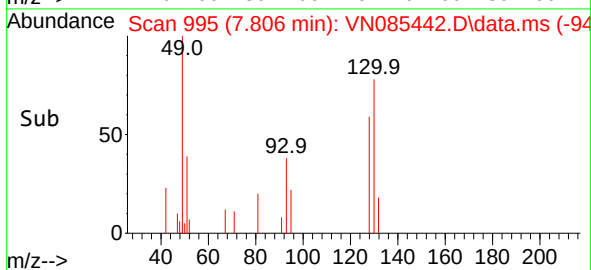
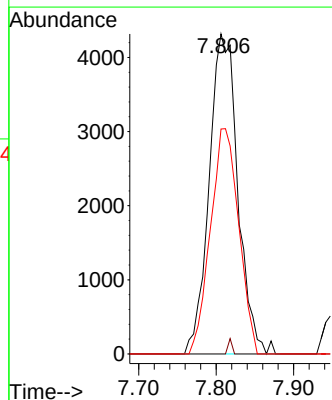
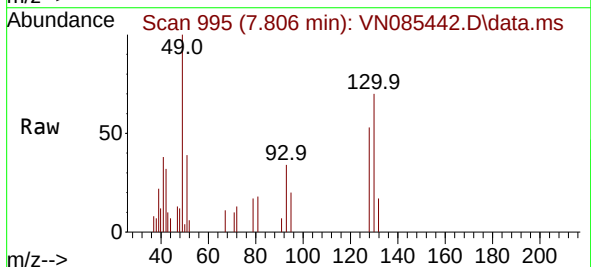
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

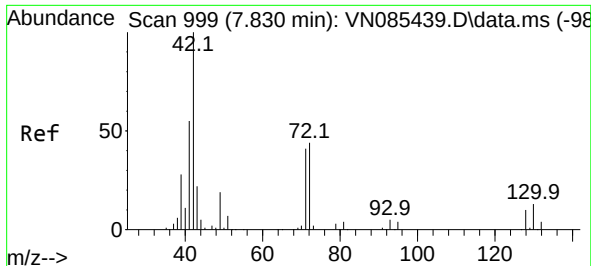
Tgt Ion: 96	Resp: 12477
Ion Ratio	Lower Upper
96 100	
61 154.5	0.0 311.8
98 62.8	0.0 126.0



#28
 Bromochloromethane
 Concen: 5.424 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. -0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion: 49	Resp: 11096
Ion Ratio	Lower Upper
49 100	
129 0.7	0.0 4.4
130 69.5	55.0 82.4





#29

Tetrahydrofuran

Concen: 24.215 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

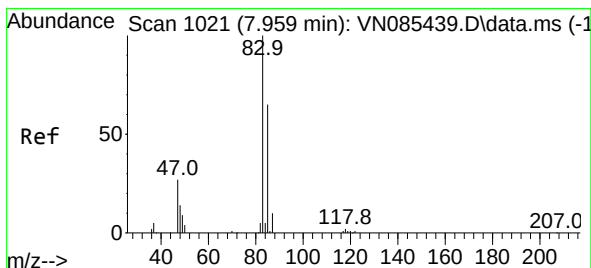
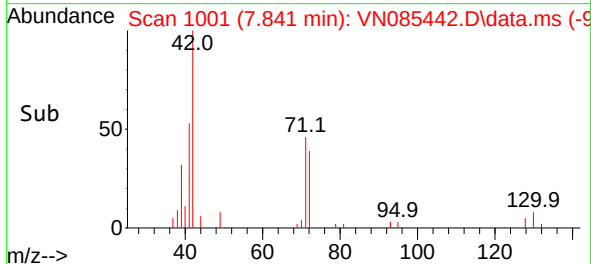
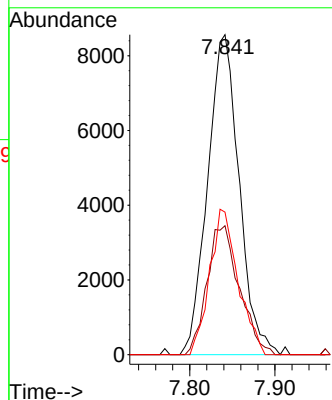
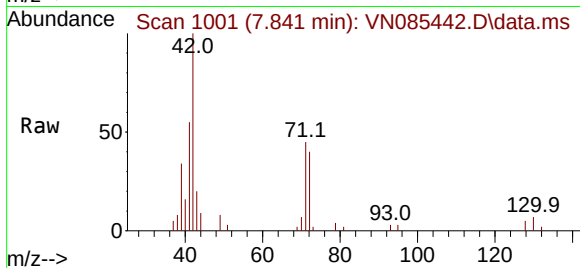
Tgt Ion: 42 Resp: 21983

Ion Ratio Lower Upper

42 100

72 41.5 34.2 51.2

71 41.0 32.5 48.7



#30

Chloroform

Concen: 5.146 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085442.D

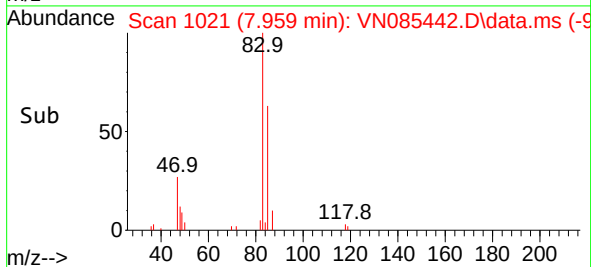
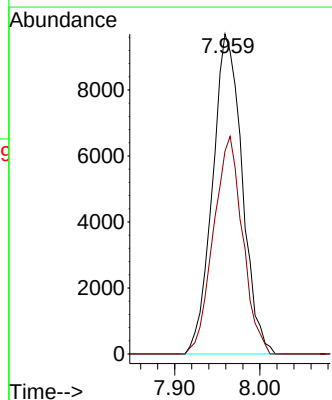
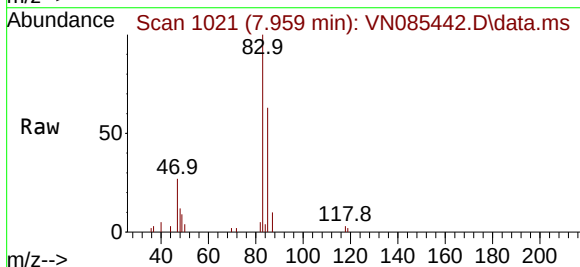
Acq: 14 Jan 2025 16:31

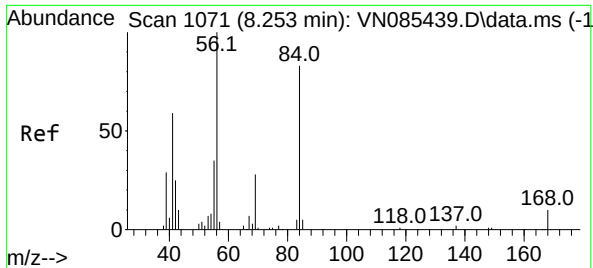
Tgt Ion: 83 Resp: 23384

Ion Ratio Lower Upper

83 100

85 63.4 51.8 77.6

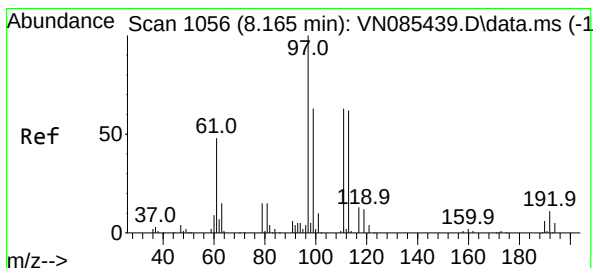
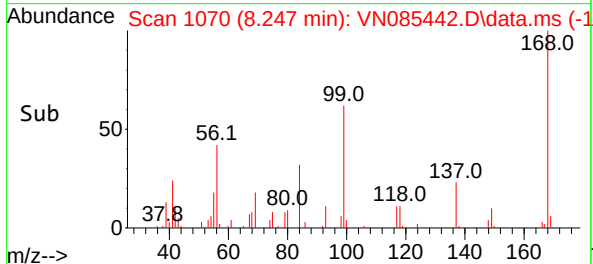
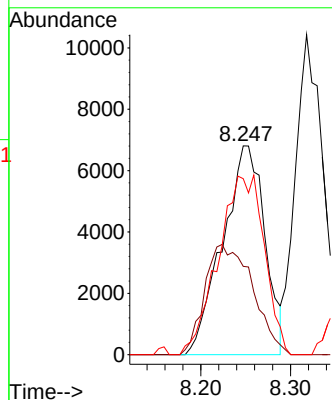
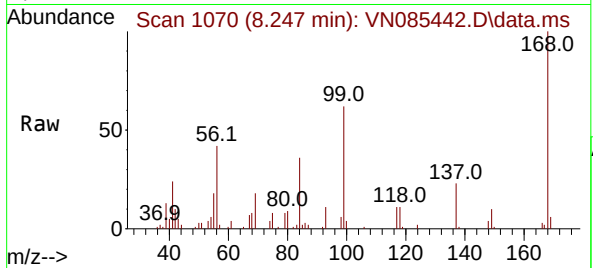




#31
Cyclohexane
Concen: 5.846 ug/l
RT: 8.247 min Scan# 1070
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

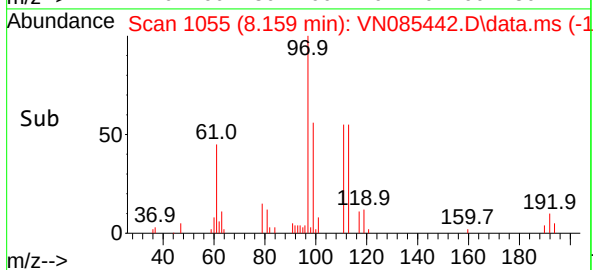
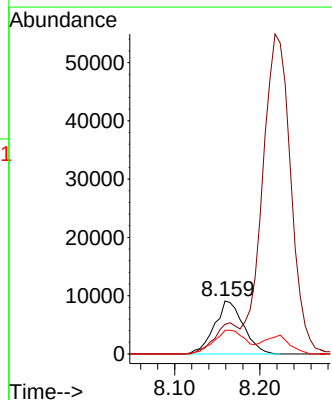
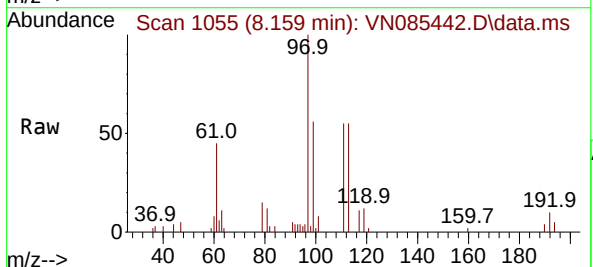
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

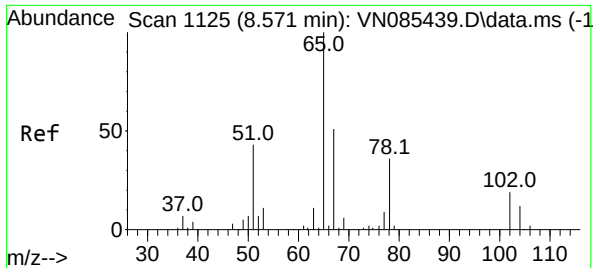
Tgt Ion: 56 Resp: 22343
Ion Ratio Lower Upper
56 100
69 42.3 22.2 33.4#
84 84.3 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 5.372 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 97 Resp: 21416
Ion Ratio Lower Upper
97 100
99 50.5 49.8 74.6
61 50.1 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 5.660 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

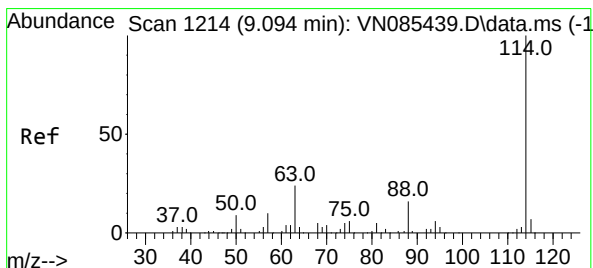
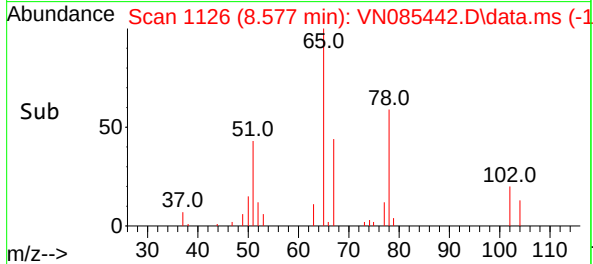
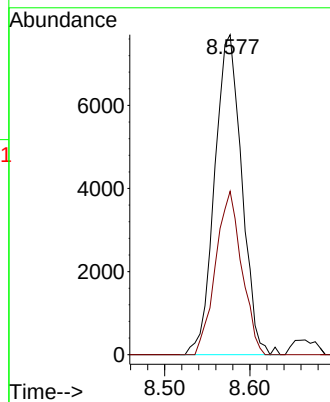
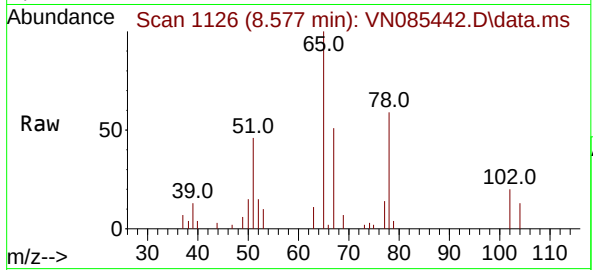
VSTDIC005

Tgt Ion: 65 Resp: 17046

Ion Ratio Lower Upper

65 100

67 49.2 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

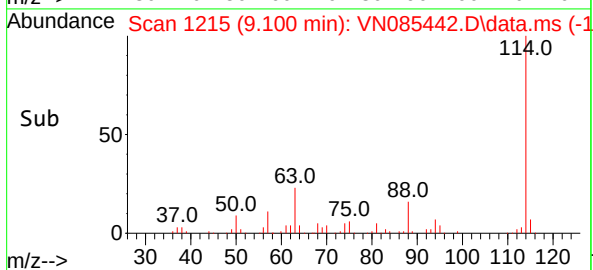
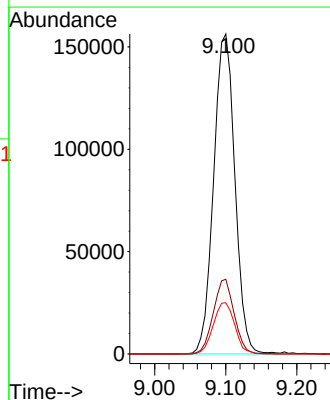
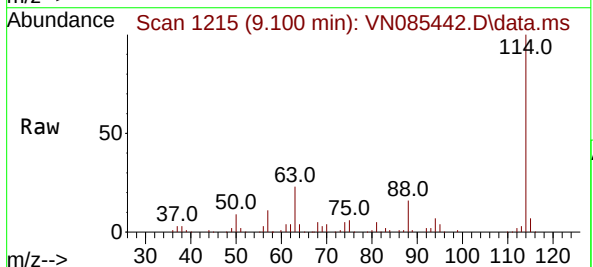
Tgt Ion: 114 Resp: 324413

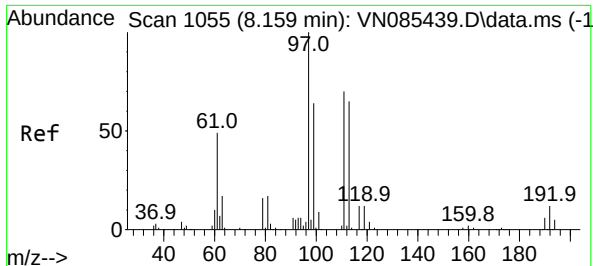
Ion Ratio Lower Upper

114 100

63 23.3 0.0 47.6

88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 5.377 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

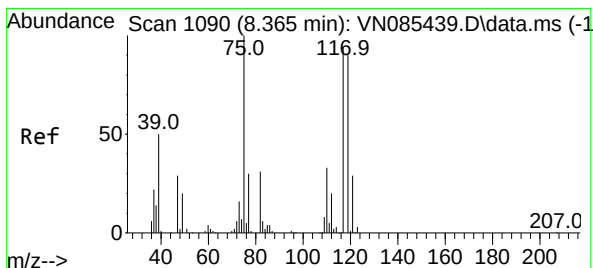
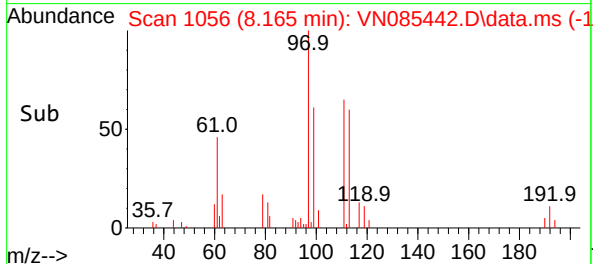
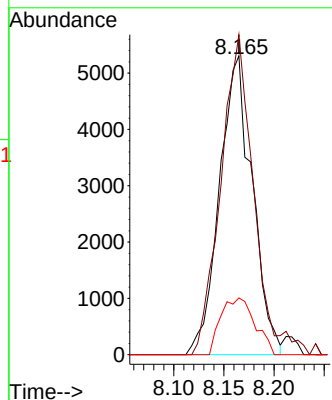
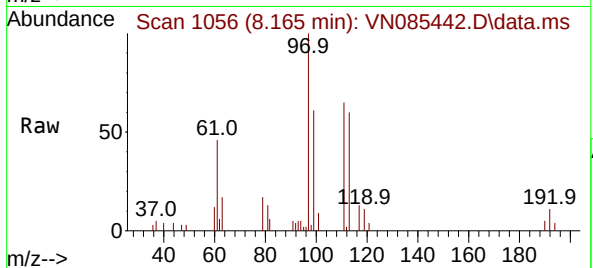
Tgt Ion:113 Resp: 12102

Ion Ratio Lower Upper

113 100

111 107.4 82.7 124.1

192 19.7 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.029 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

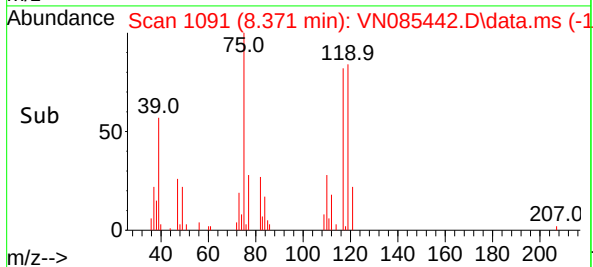
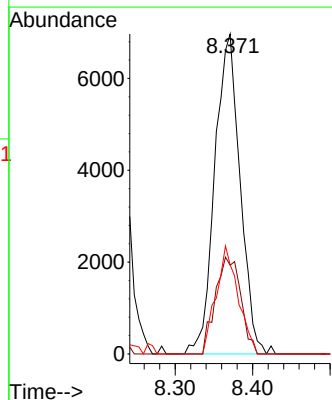
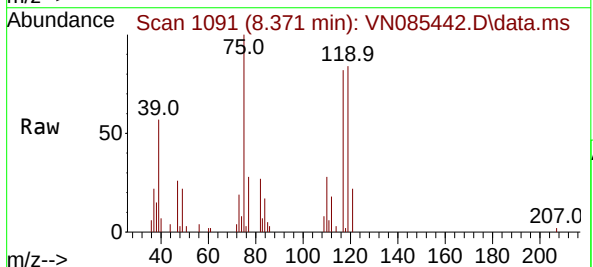
Tgt Ion: 75 Resp: 15886

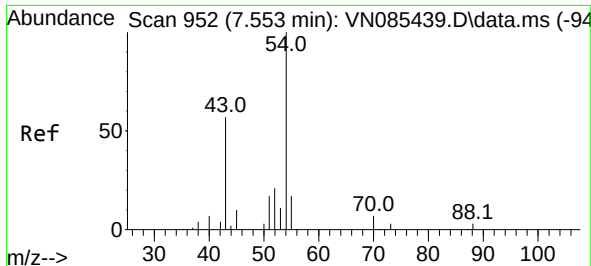
Ion Ratio Lower Upper

75 100

110 30.3 16.5 49.5

77 29.2 24.4 36.6





#37

Ethyl Acetate

Concen: 4.810 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

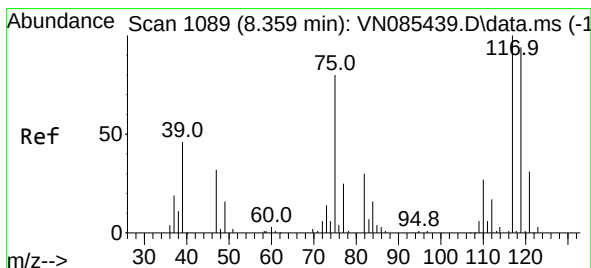
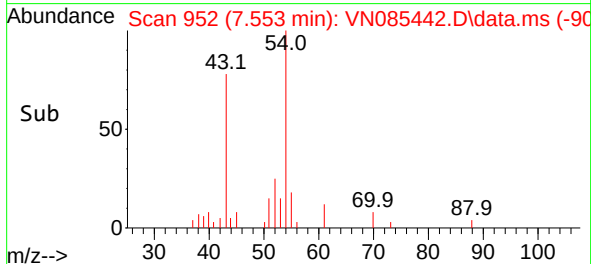
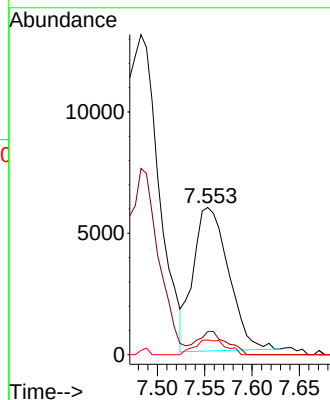
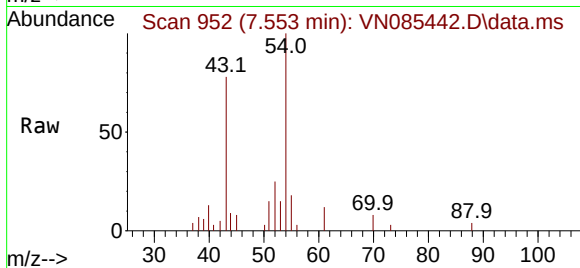
Tgt Ion: 43 Resp: 15336

Ion Ratio Lower Upper

43 100

61 13.5 10.9 16.3

70 9.2 7.5 11.3



#38

Carbon Tetrachloride

Concen: 5.065 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

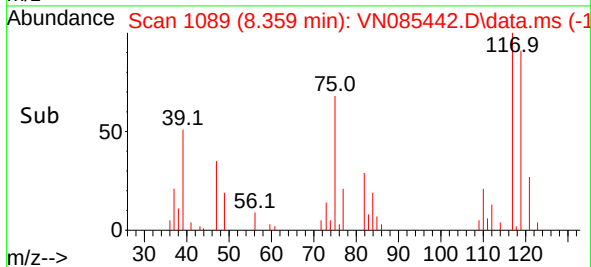
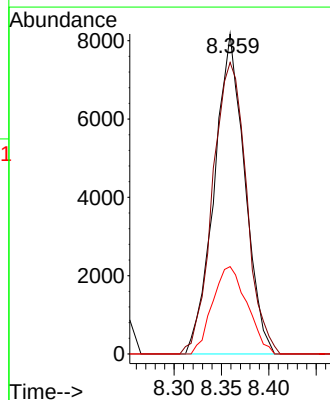
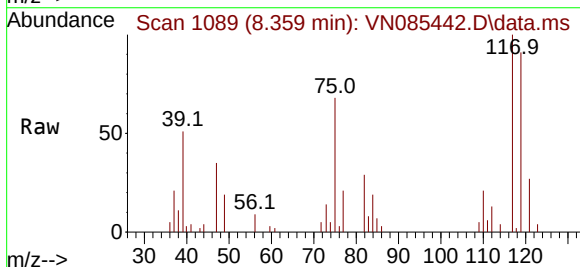
Tgt Ion: 117 Resp: 18317

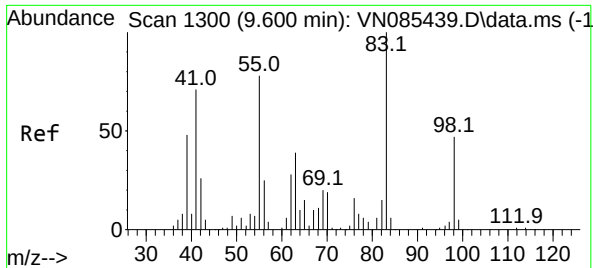
Ion Ratio Lower Upper

117 100

119 91.1 75.4 113.2

121 27.3 24.6 37.0

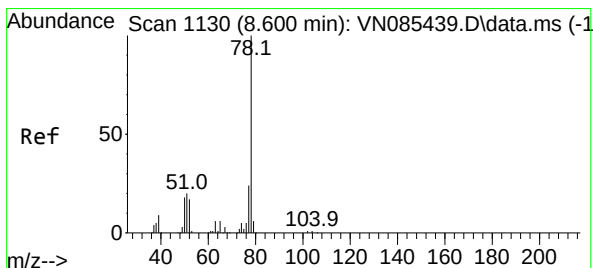
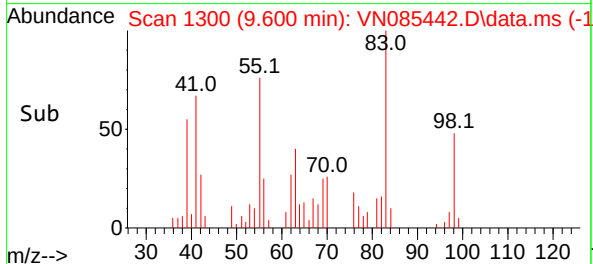
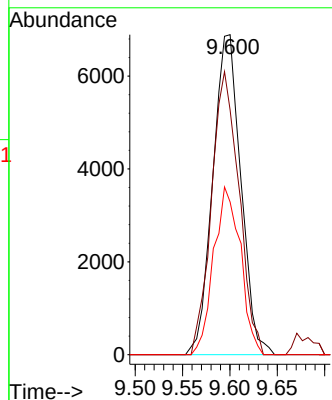
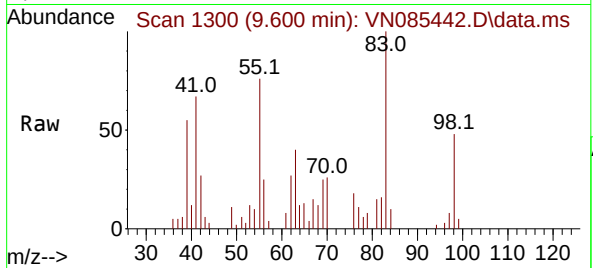




#39
Methylcyclohexane
Concen: 4.776 ug/l
RT: 9.600 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

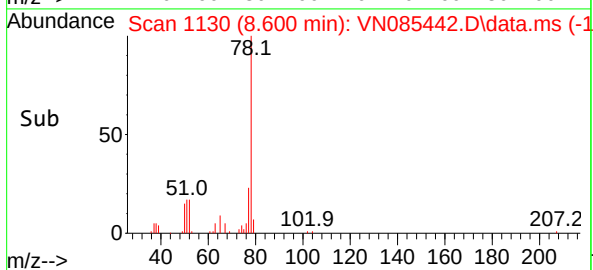
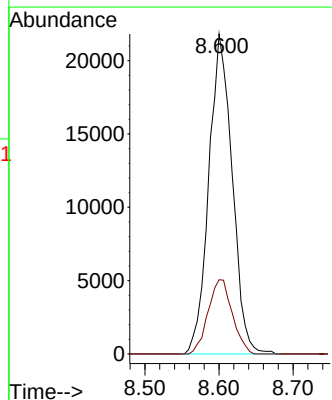
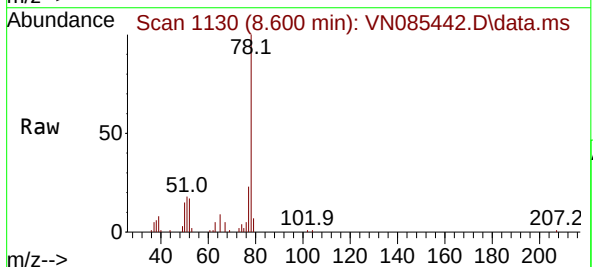
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

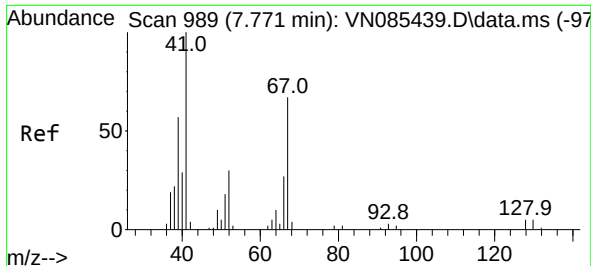
Tgt Ion: 83 Resp: 14175
Ion Ratio Lower Upper
83 100
55 76.5 62.6 94.0
98 47.7 37.7 56.5



#40
Benzene
Concen: 5.040 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 78 Resp: 47833
Ion Ratio Lower Upper
78 100
77 23.2 19.0 28.6



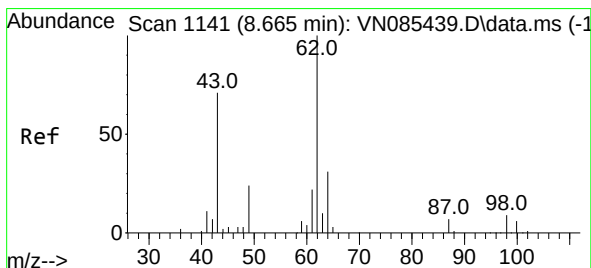
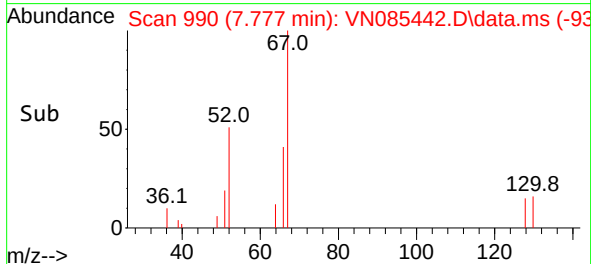
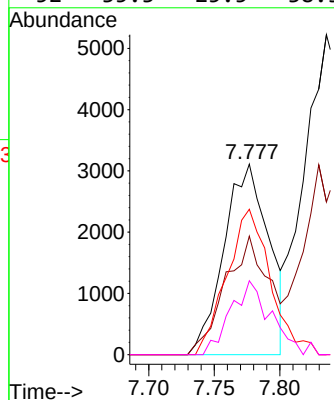
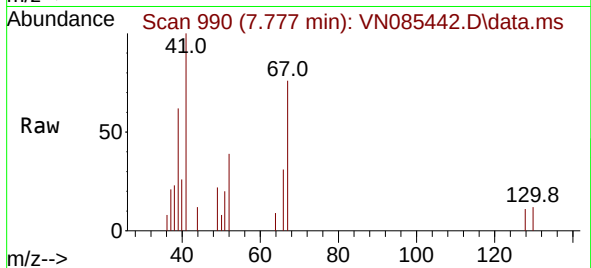


#41
Methacrylonitrile
Concen: 4.449 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 7380

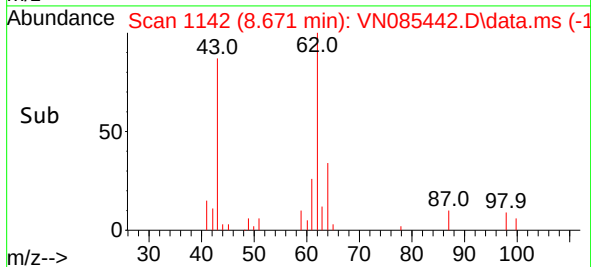
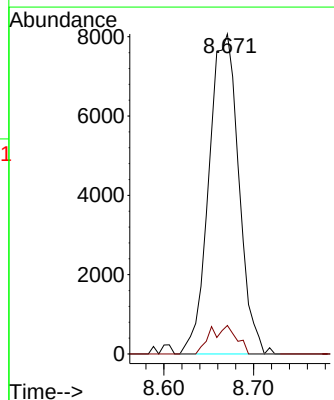
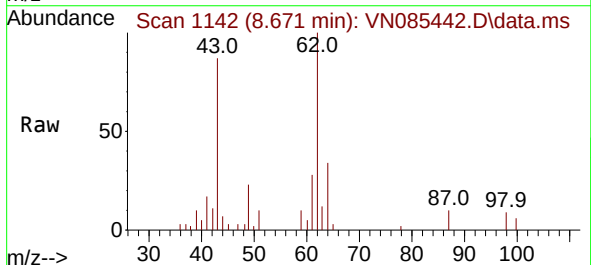
Ion	Ratio	Lower	Upper
41	100		
39	60.5	46.0	69.0
67	74.6	57.4	86.2
52	35.3	25.5	38.3

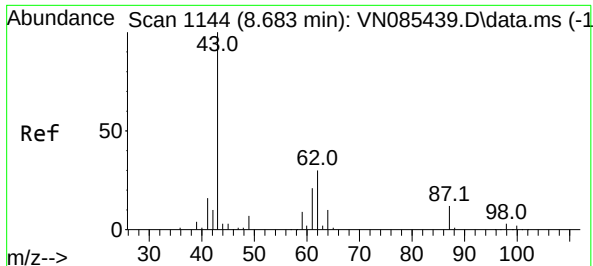


#42
1,2-Dichloroethane
Concen: 5.211 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 62 Resp: 18628

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	17.0

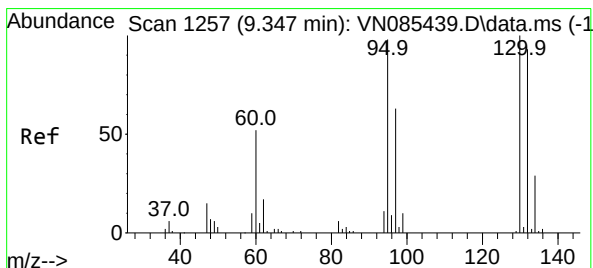
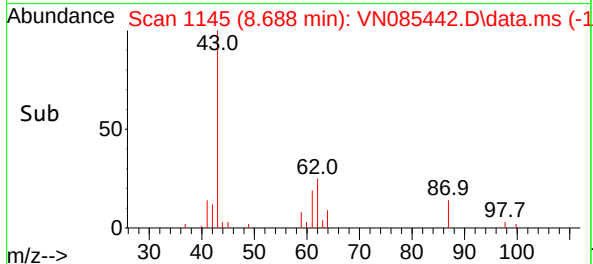
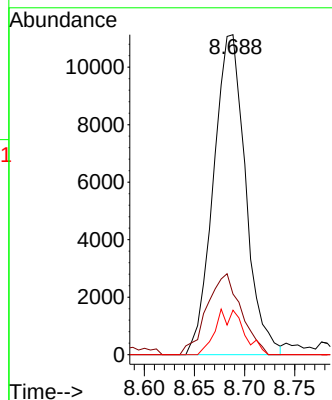
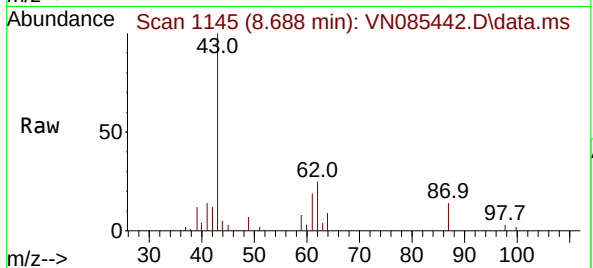




#43
Isopropyl Acetate
Concen: 4.853 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

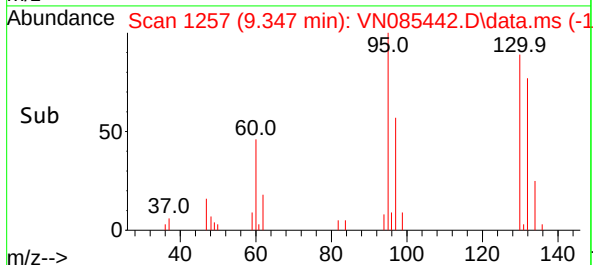
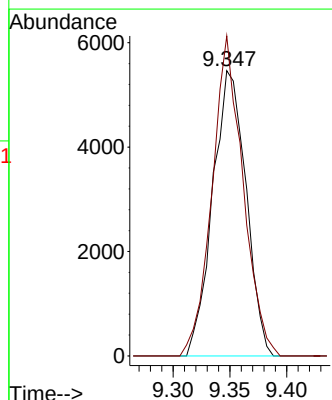
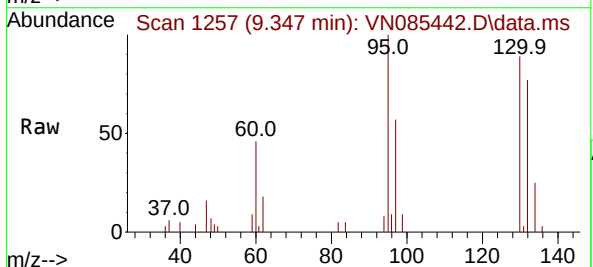
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

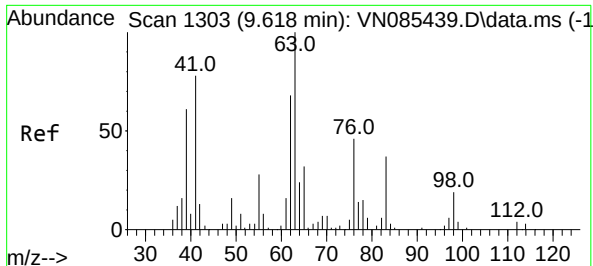
Tgt Ion: 43 Resp: 24792
Ion Ratio Lower Upper
43 100
61 27.0 20.7 31.1
87 12.3 9.8 14.8



#44
Trichloroethene
Concen: 5.039 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 130 Resp: 11133
Ion Ratio Lower Upper
130 100
95 112.2 0.0 195.8





#45

1,2-Dichloropropane

Concen: 5.194 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

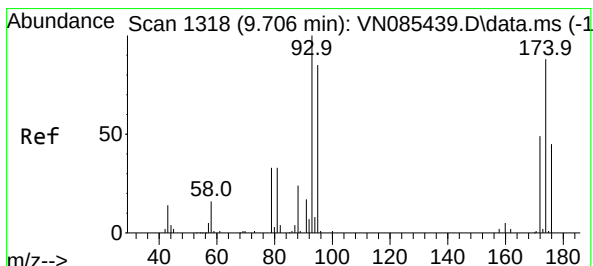
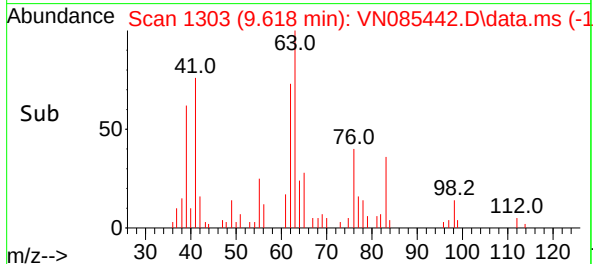
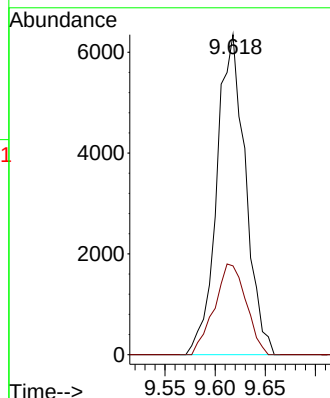
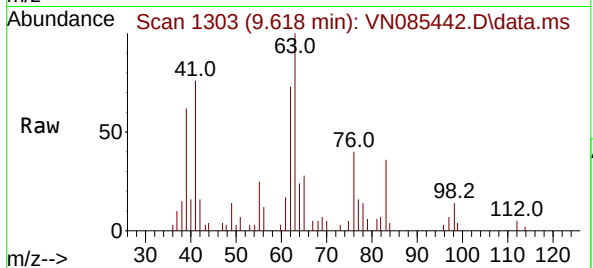
VSTDIC005

Tgt Ion: 63 Resp: 12591

Ion Ratio Lower Upper

63 100

65 27.8 25.6 38.4



#46

Dibromomethane

Concen: 4.705 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

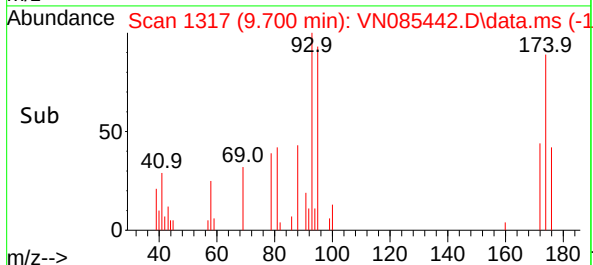
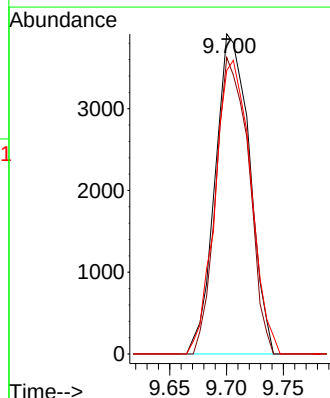
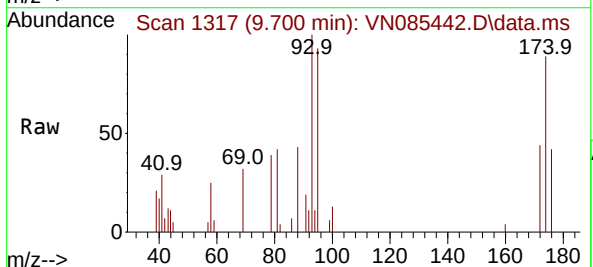
Tgt Ion: 93 Resp: 8230

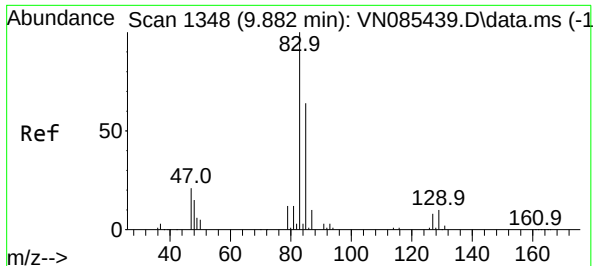
Ion Ratio Lower Upper

93 100

95 88.7 64.7 97.1

174 95.0 69.0 103.4

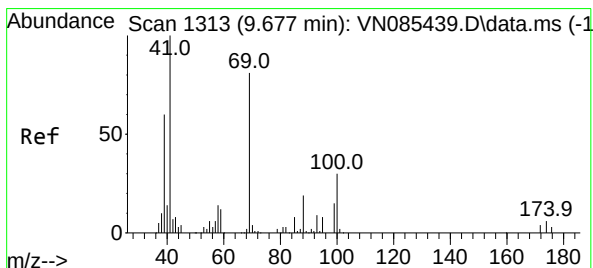
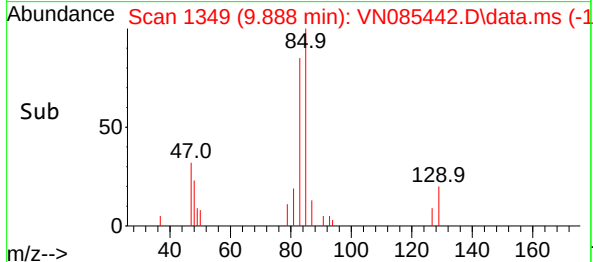
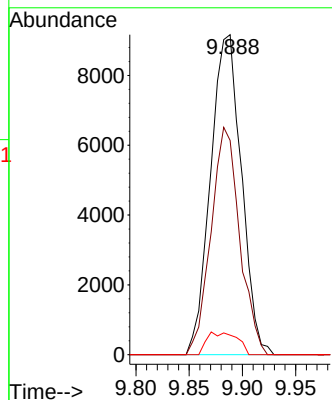
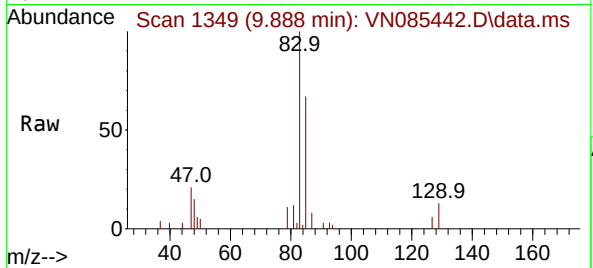




#47
Bromodichloromethane
Concen: 5.179 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

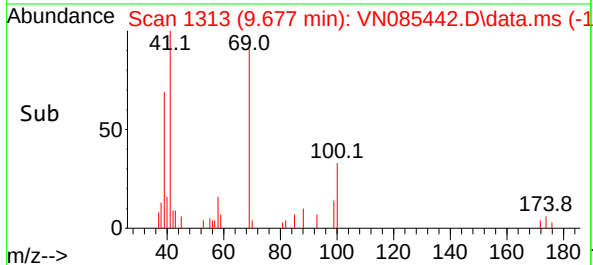
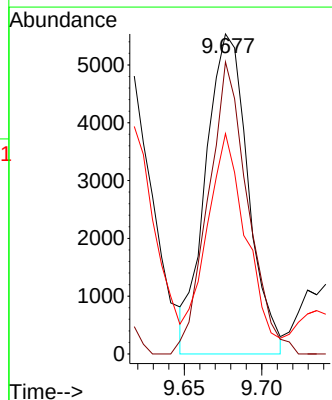
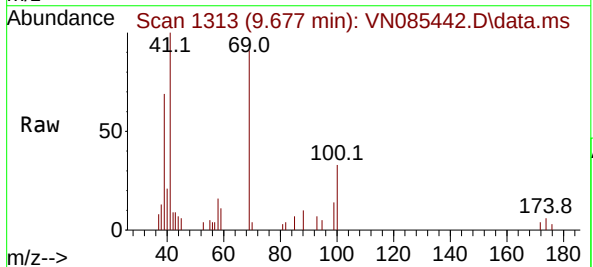
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

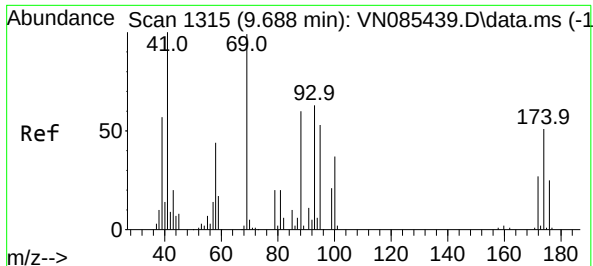
Tgt Ion: 83 Resp: 18456
Ion Ratio Lower Upper
83 100
85 67.0 51.2 76.8
127 6.1 6.5 9.7#



#48
Methyl methacrylate
Concen: 4.599 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 41 Resp: 10574
Ion Ratio Lower Upper
41 100
69 84.9 64.7 97.1
39 65.3 49.0 73.6





#49

1,4-Dioxane

Concen: 93.477 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

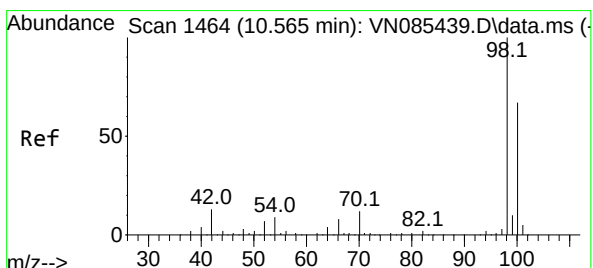
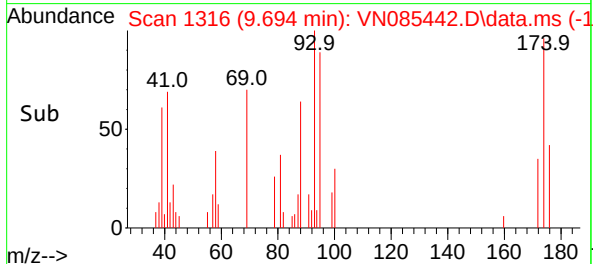
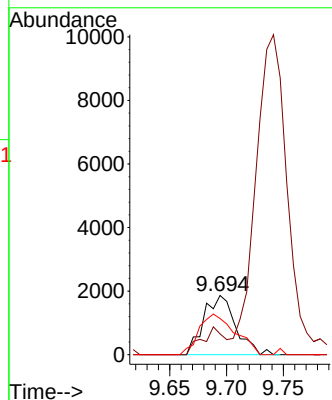
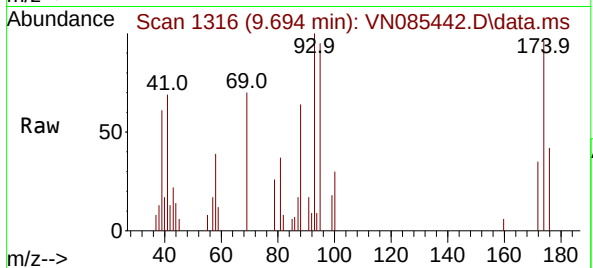
Tgt Ion: 88 Resp: 3619

Ion Ratio Lower Upper

88 100

43 32.3 26.6 39.8

58 77.9 59.5 89.3



#50

Toluene-d8

Concen: 5.168 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085442.D

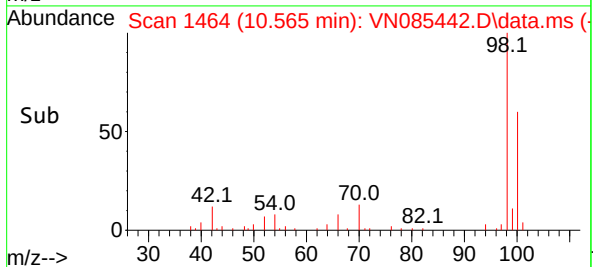
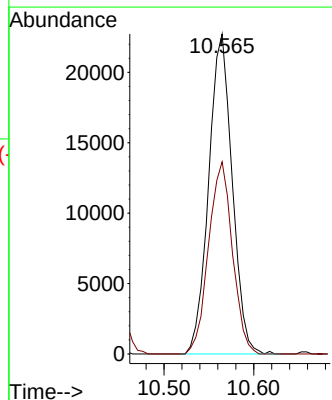
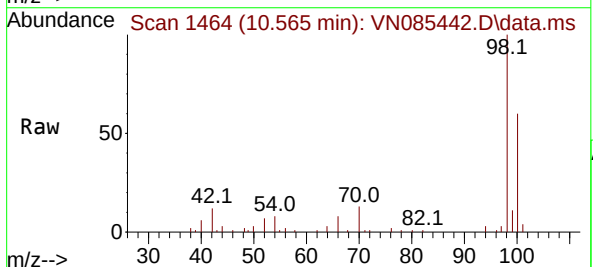
Acq: 14 Jan 2025 16:31

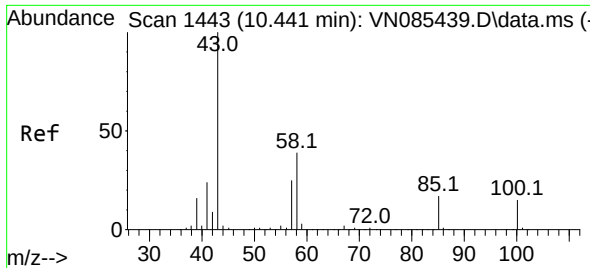
Tgt Ion: 98 Resp: 41328

Ion Ratio Lower Upper

98 100

100 60.9 52.2 78.4

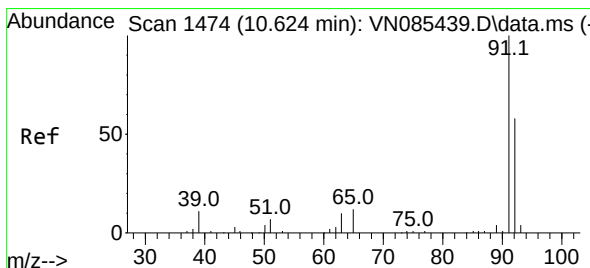
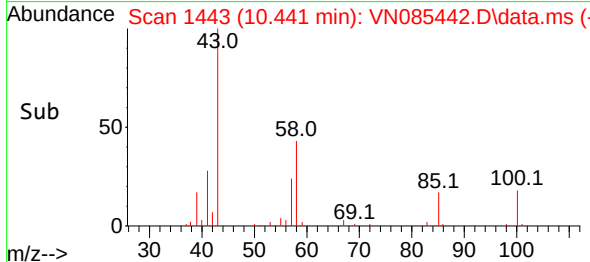
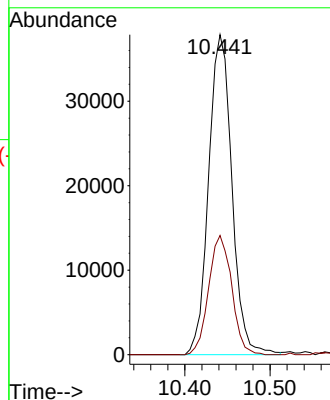
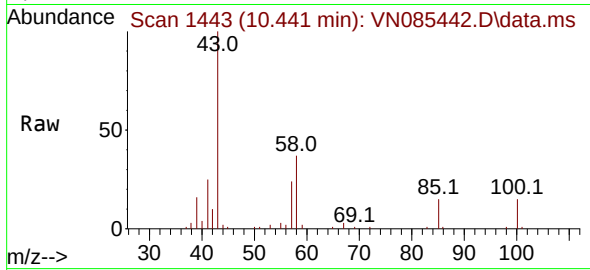




#51
4-Methyl-2-Pentanone
Concen: 24.250 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

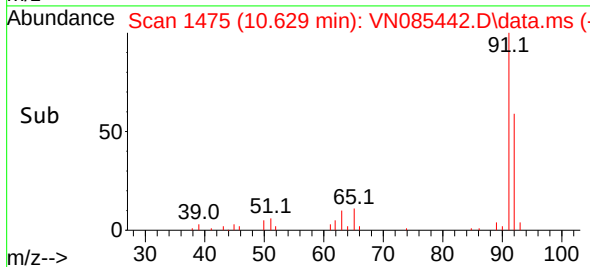
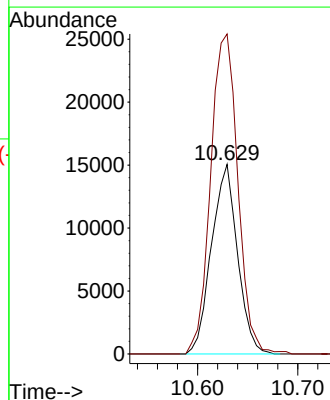
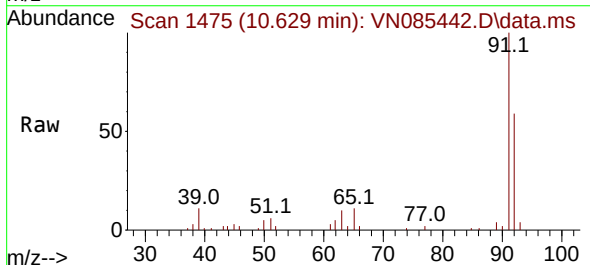
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

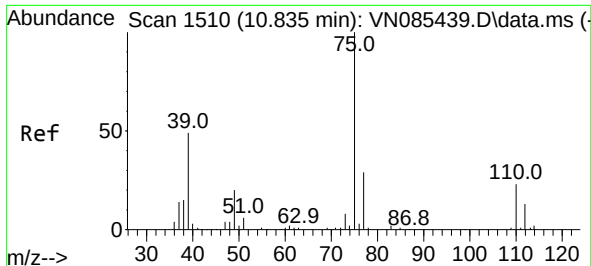
Tgt Ion: 43 Resp: 71889
Ion Ratio Lower Upper
43 100
58 36.9 30.5 45.7



#52
Toluene
Concen: 4.928 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 92 Resp: 27098
Ion Ratio Lower Upper
92 100
91 176.4 139.2 208.8

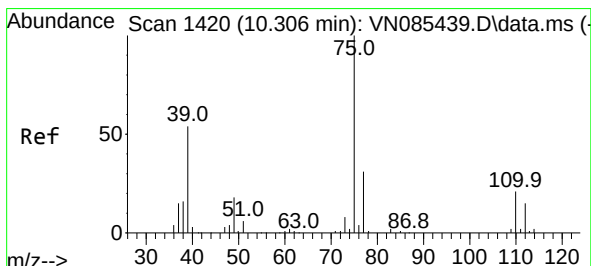
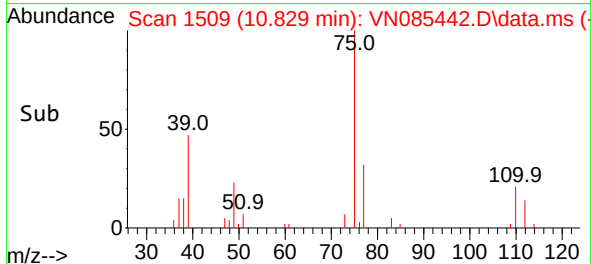
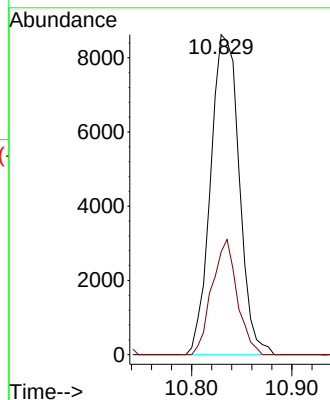
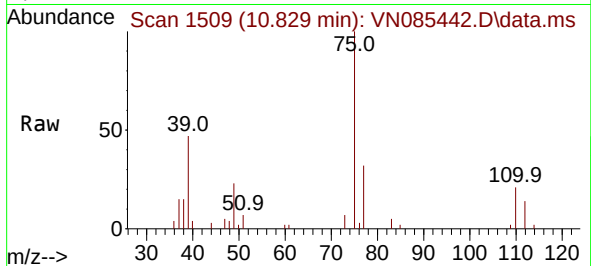




#53
 t-1,3-Dichloropropene
 Concen: 5.077 ug/l
 RT: 10.829 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

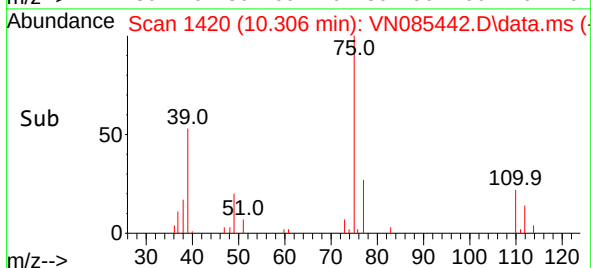
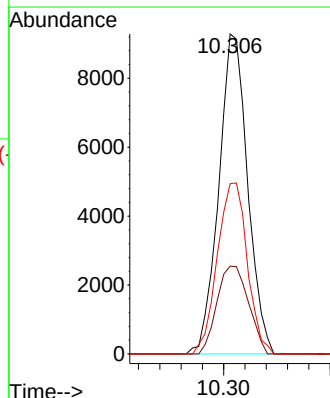
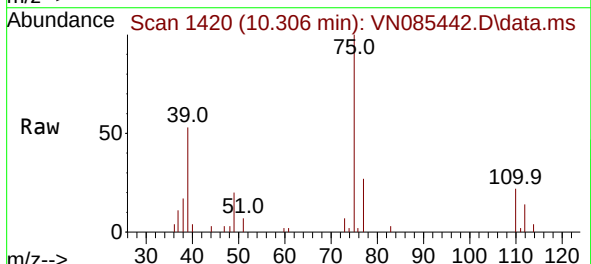
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

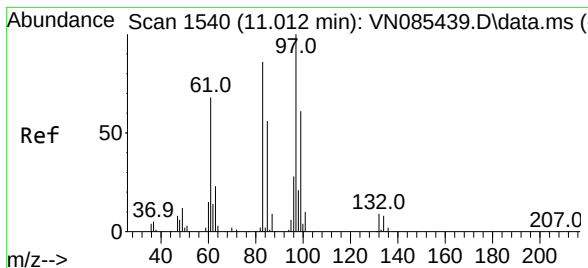
Tgt Ion: 75 Resp: 17099
 Ion Ratio Lower Upper
 75 100
 77 32.2 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 4.848 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 17440
 Ion Ratio Lower Upper
 75 100
 77 27.5 25.0 37.4
 39 53.2 43.1 64.7

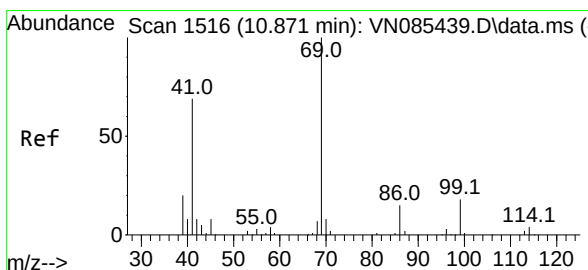
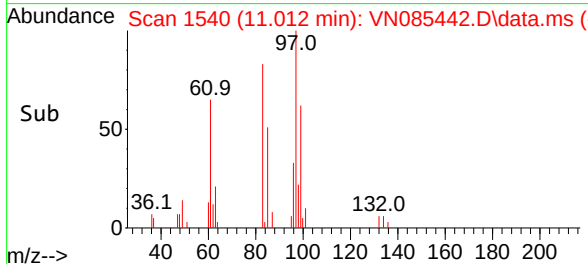
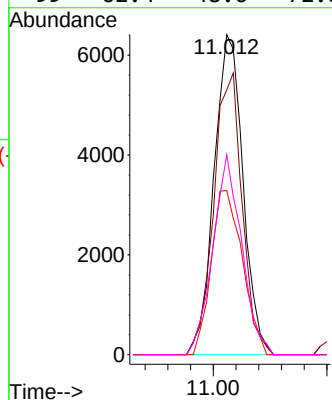
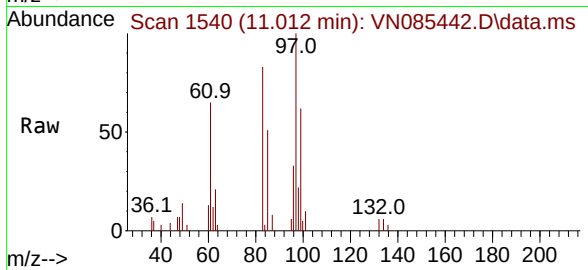




#55
1,1,2-Trichloroethane
Concen: 5.197 ug/l
RT: 11.012 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

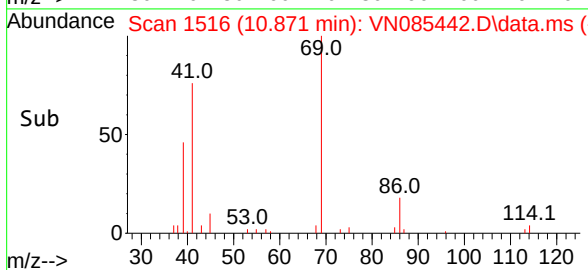
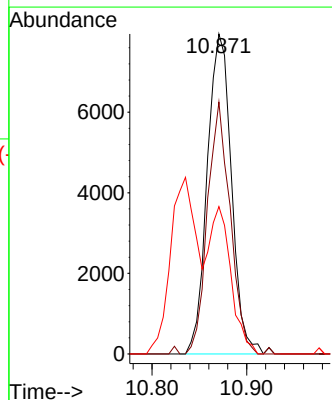
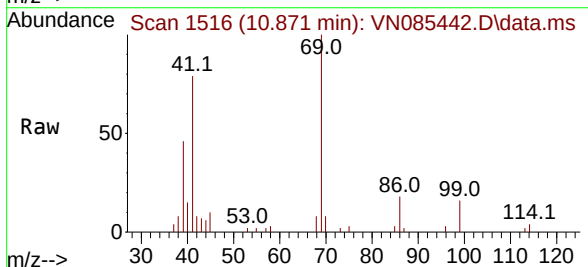
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

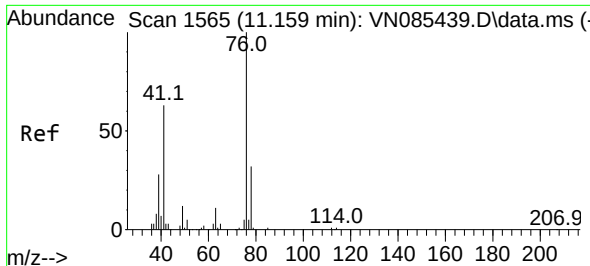
Tgt Ion: 97	Resp: 11311
Ion Ratio	Lower Upper
97 100	
83 82.7	69.0 103.6
85 51.3	44.6 66.8
99 62.4	48.6 72.8



#56
Ethyl methacrylate
Concen: 5.627 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 69	Resp: 14094
Ion Ratio	Lower Upper
69 100	
41 73.8	54.6 82.0
39 42.6	32.4 48.6





#57

1,3-Dichloropropane

Concen: 5.006 ug/l

RT: 11.159 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

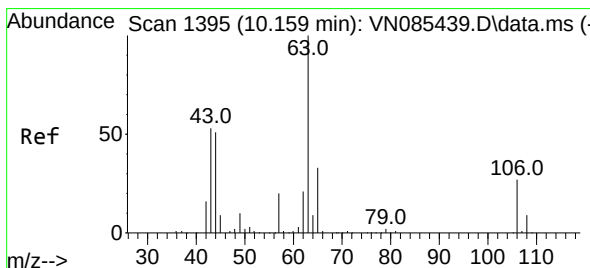
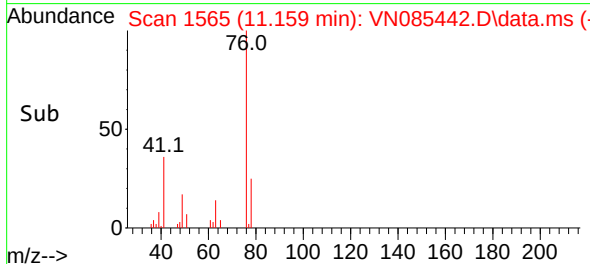
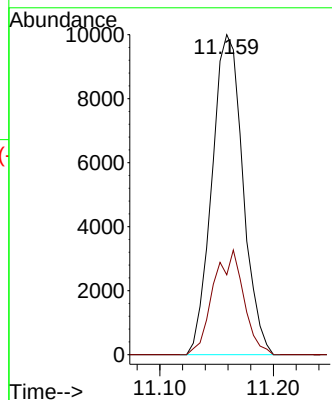
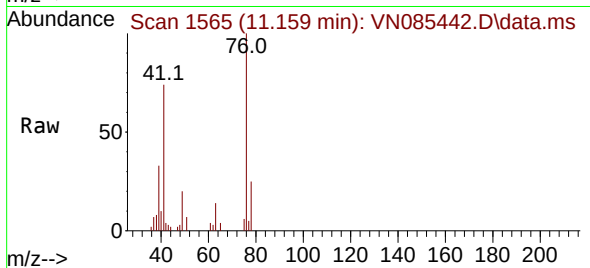
VSTDIC005

Tgt Ion: 76 Resp: 18945

Ion Ratio Lower Upper

76 100

78 32.2 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 24.047 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085442.D

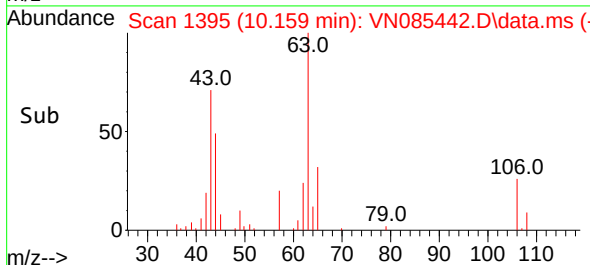
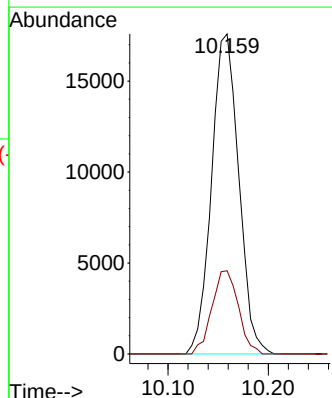
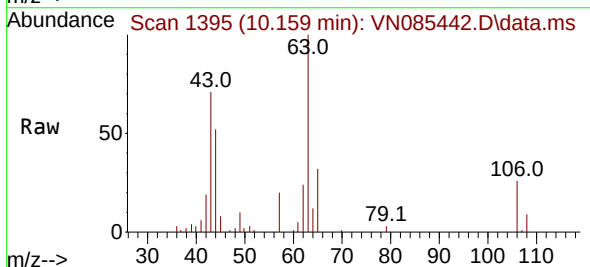
Acq: 14 Jan 2025 16:31

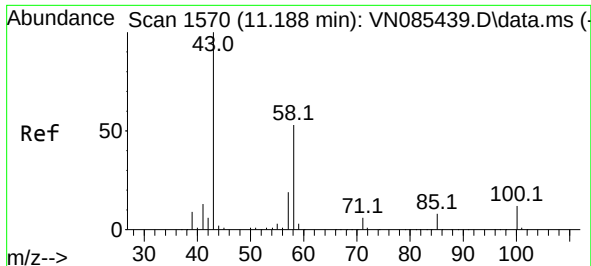
Tgt Ion: 63 Resp: 33210

Ion Ratio Lower Upper

63 100

106 25.2 21.6 32.4

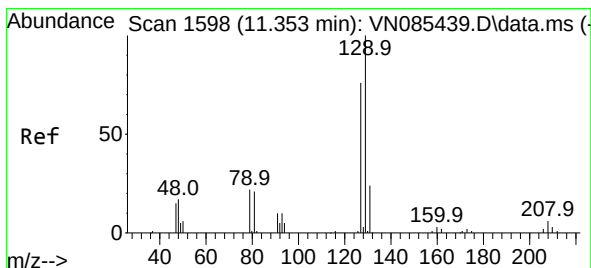
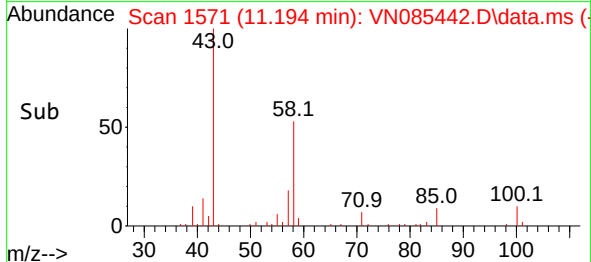
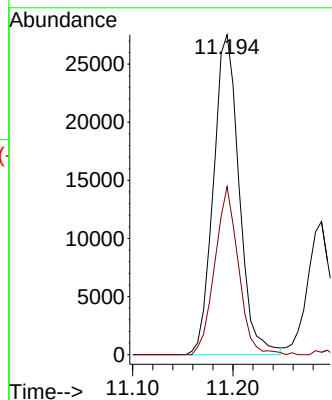
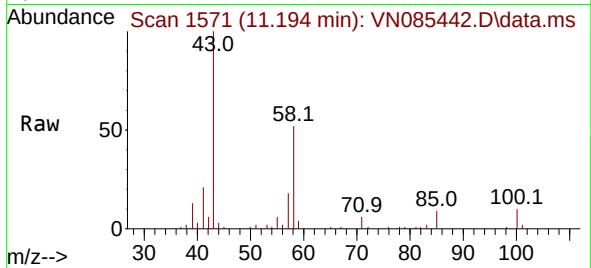




#59
2-Hexanone
Concen: 23.501 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

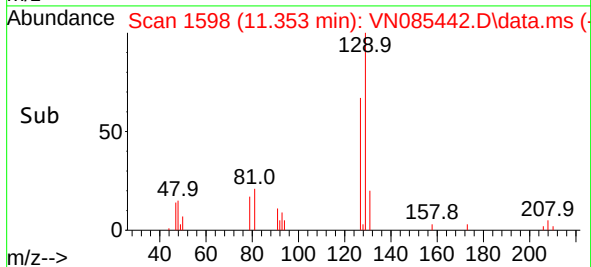
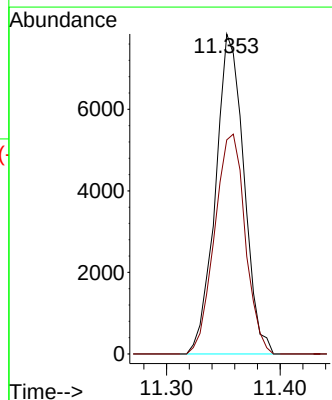
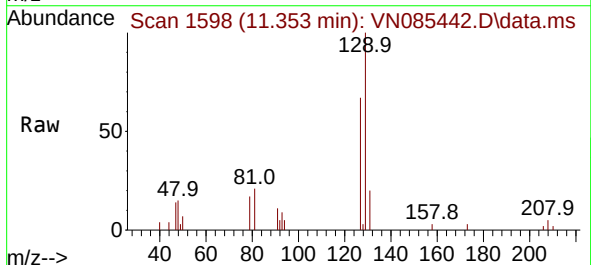
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

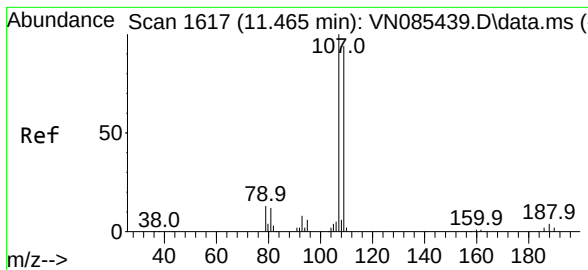
Tgt Ion: 43 Resp: 49021
Ion Ratio Lower Upper
43 100
58 48.3 26.2 78.6



#60
Dibromochloromethane
Concen: 5.190 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 129 Resp: 13635
Ion Ratio Lower Upper
129 100
127 73.9 38.6 115.8

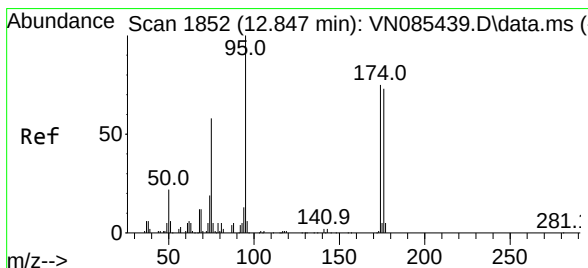
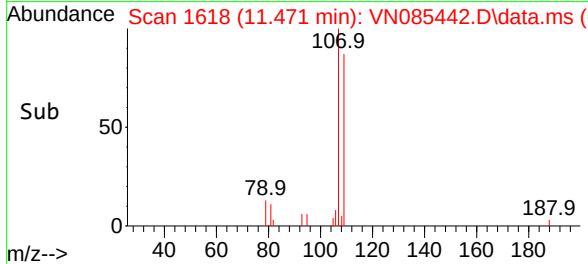
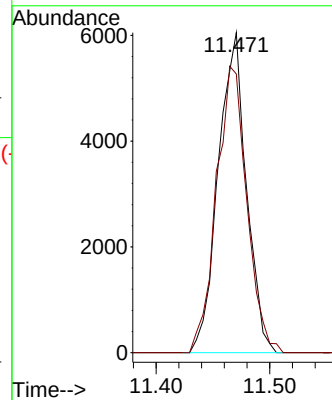
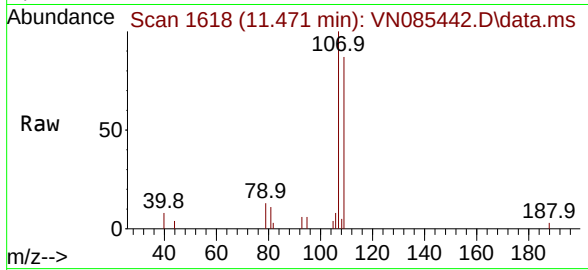




#61
1,2-Dibromoethane
Concen: 4.810 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

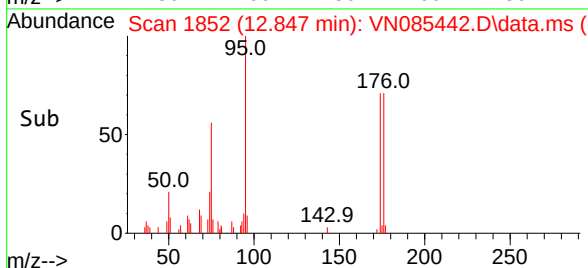
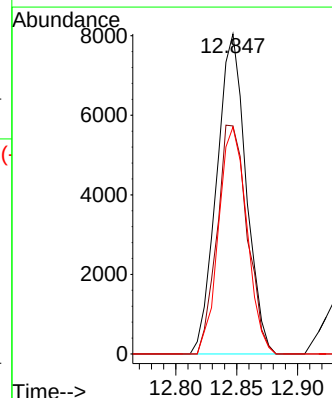
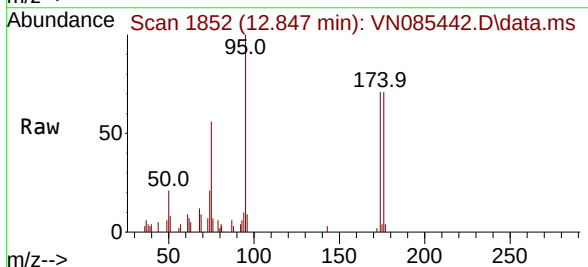
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

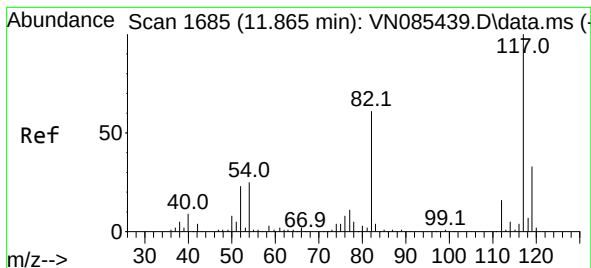
Tgt Ion:107 Resp: 10419
Ion Ratio Lower Upper
107 100
109 96.8 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 4.943 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 95 Resp: 13520
Ion Ratio Lower Upper
95 100
174 73.2 0.0 145.0
176 68.0 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

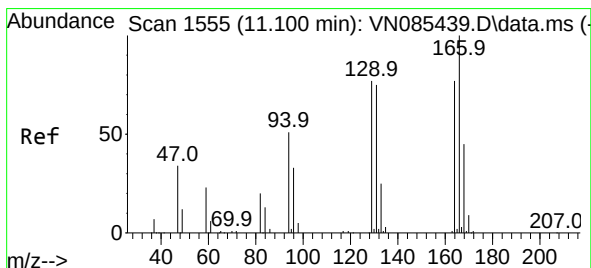
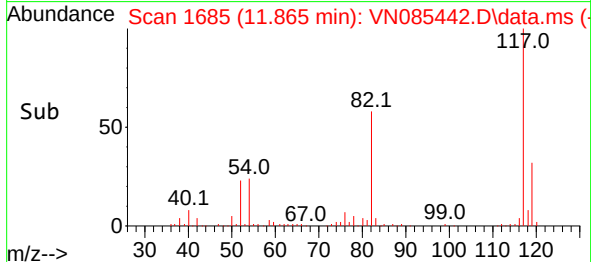
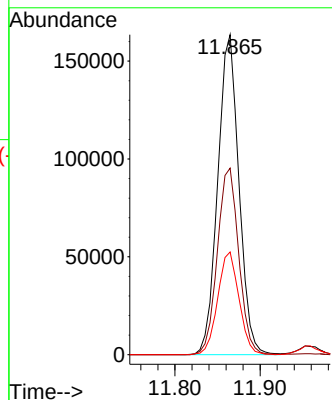
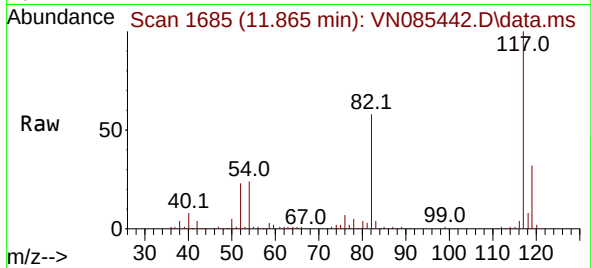
Tgt Ion:117 Resp: 282203

Ion Ratio Lower Upper

117 100

82 58.3 48.6 72.8

119 32.1 26.6 39.8



#64

Tetrachloroethene

Concen: 5.071 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Tgt Ion:164 Resp: 9756

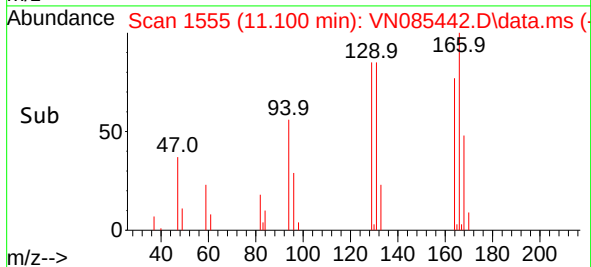
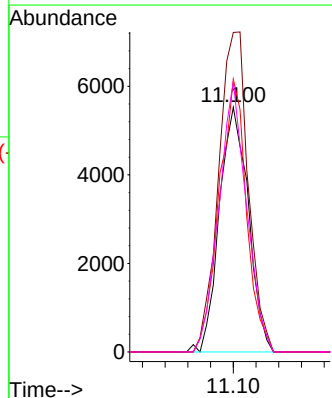
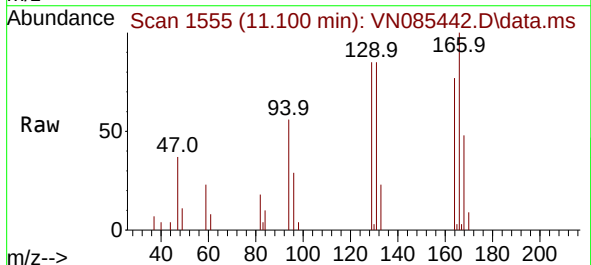
Ion Ratio Lower Upper

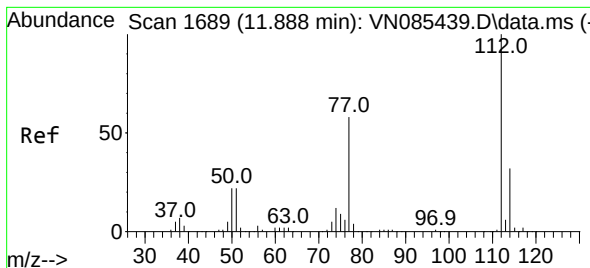
164 100

166 130.6 103.4 155.2

129 111.5 79.2 118.8

131 110.5 77.1 115.7

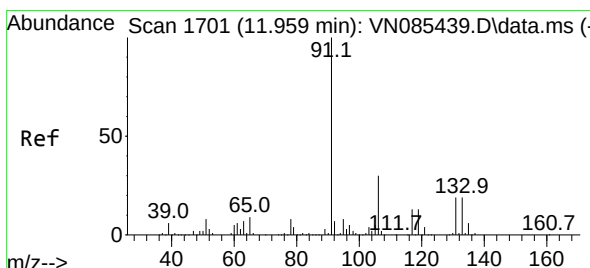
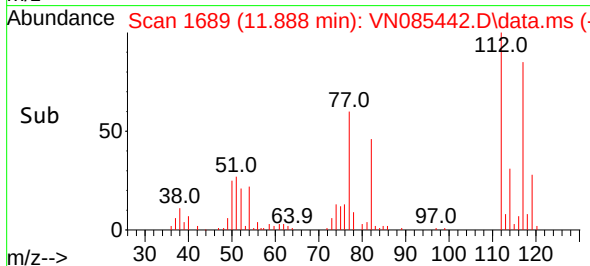
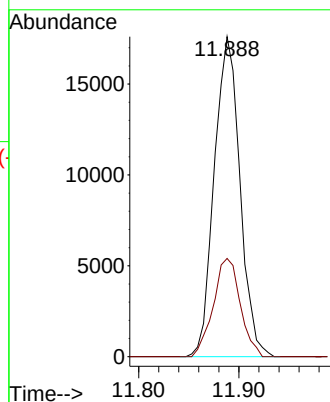
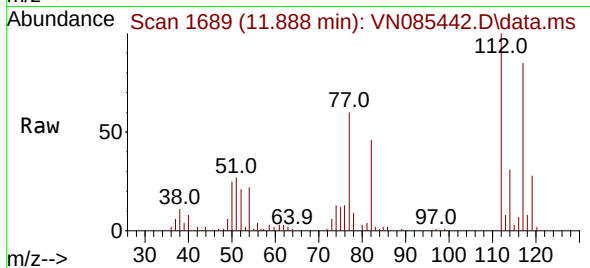




#65
Chlorobenzene
Concen: 5.065 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

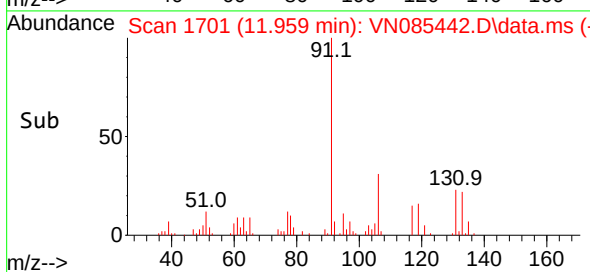
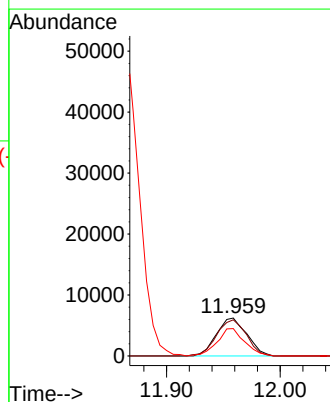
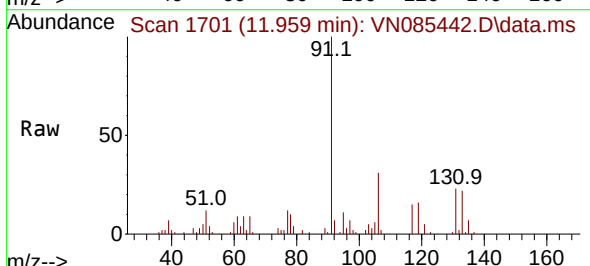
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

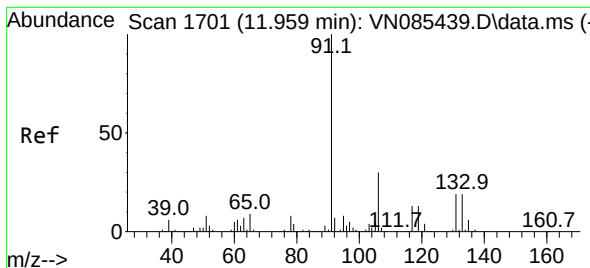
Tgt Ion:112 Resp: 31312
Ion Ratio Lower Upper
112 100
114 30.7 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 5.121 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:131 Resp: 11620
Ion Ratio Lower Upper
131 100
133 92.7 47.4 142.3
119 65.0 33.1 99.5

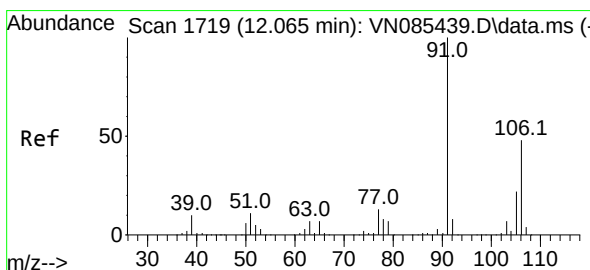
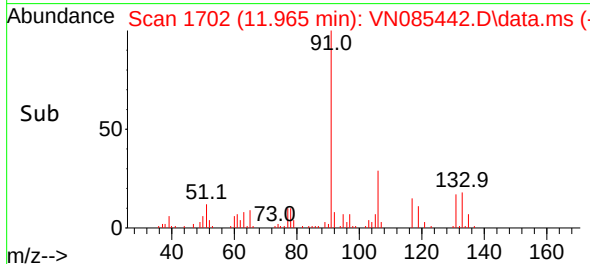
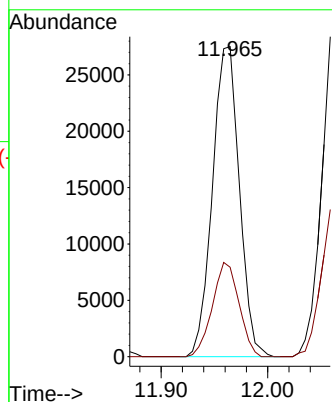
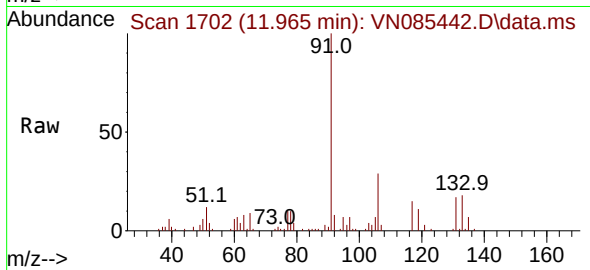




#67
Ethyl Benzene
Concen: 4.789 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

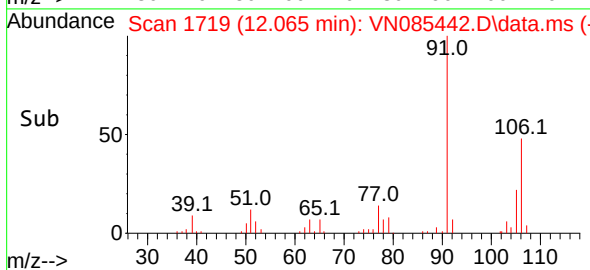
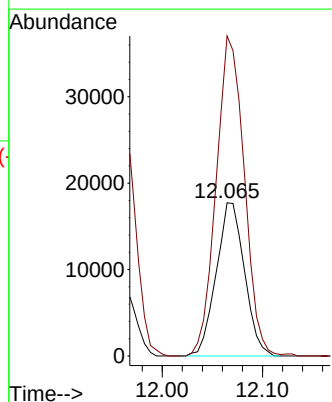
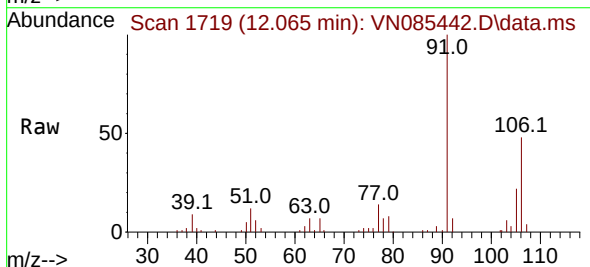
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

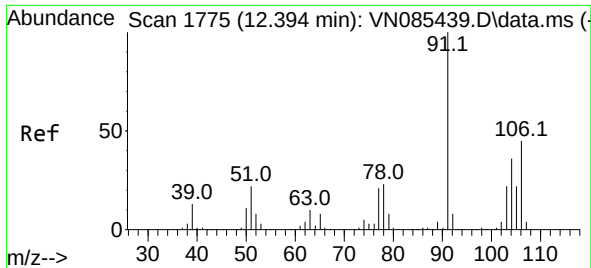
Tgt Ion: 91 Resp: 48216
Ion Ratio Lower Upper
91 100
106 28.9 23.8 35.8



#68
m/p-Xylenes
Concen: 9.344 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:106 Resp: 34771
Ion Ratio Lower Upper
106 100
91 207.9 167.7 251.5

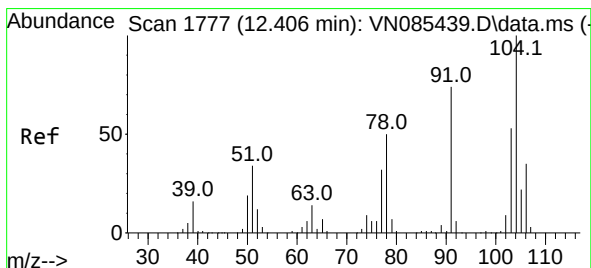
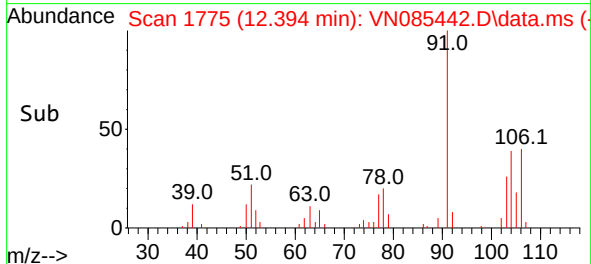
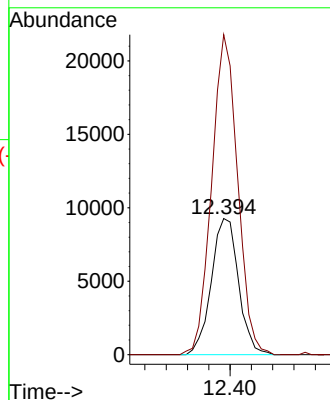
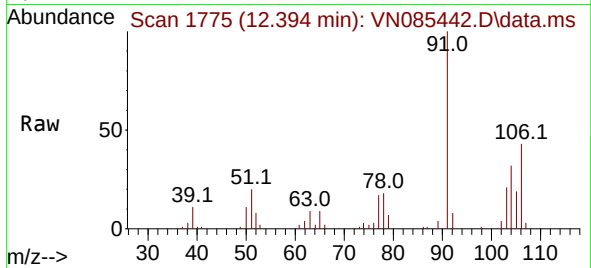




#69
o-Xylene
Concen: 4.617 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

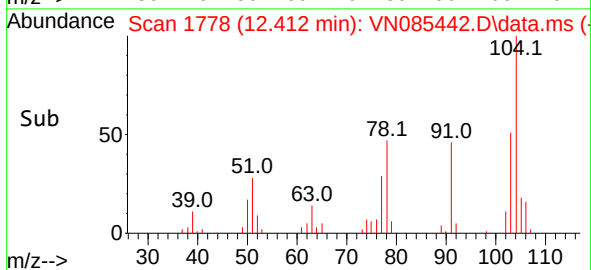
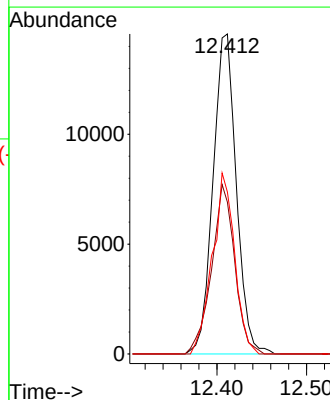
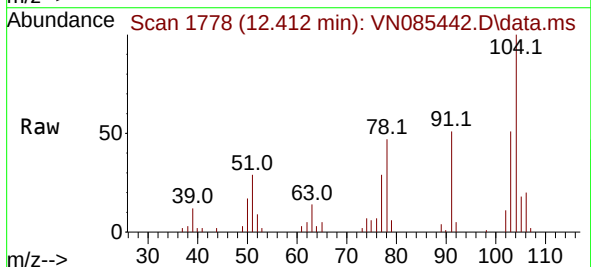
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

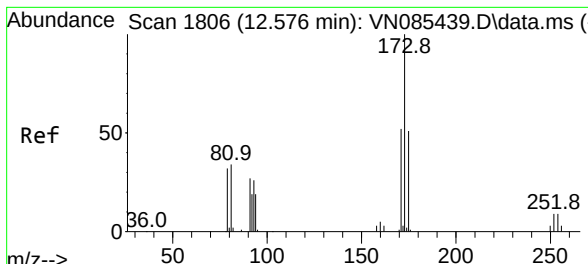
Tgt Ion:106 Resp: 16419
Ion Ratio Lower Upper
106 100
91 224.0 110.4 331.2



#70
Styrene
Concen: 4.454 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:104 Resp: 26218
Ion Ratio Lower Upper
104 100
78 52.6 42.5 63.7
103 54.2 43.8 65.8

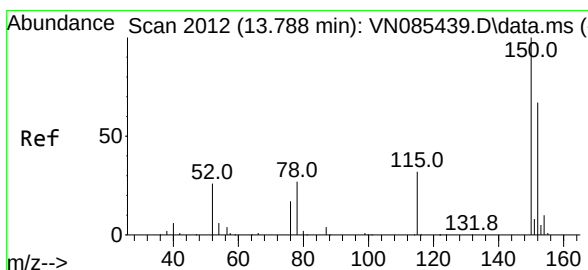
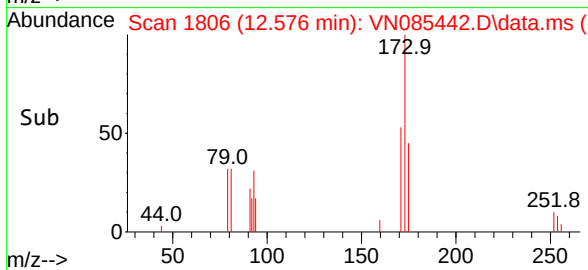
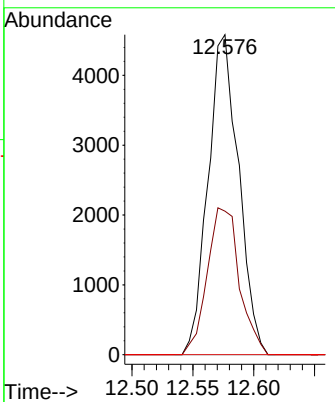
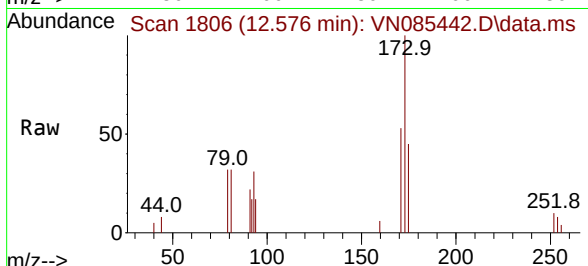




#71
 Bromoform
 Concen: 4.938 ug/l
 RT: 12.576 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

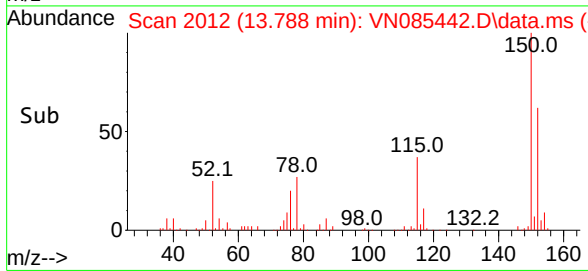
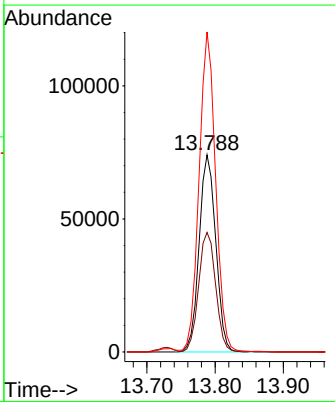
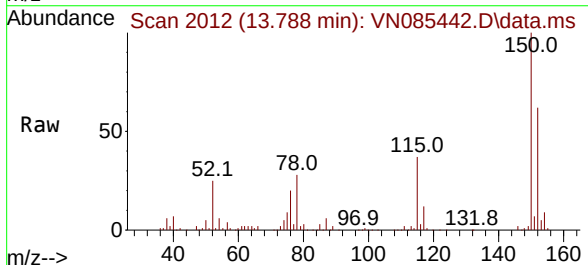
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

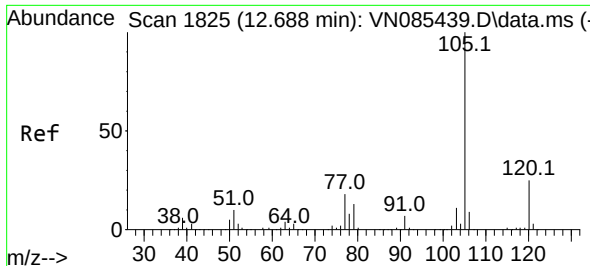
Tgt Ion:	173	Resp:	8017
Ion Ratio	Lower	Upper	
173	100		
175	48.3	24.4	73.2
254	0.0	0.0	0.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion:	152	Resp:	126086
Ion Ratio	Lower	Upper	
152	100		
115	62.0	31.1	93.3
150	160.7	0.0	343.6

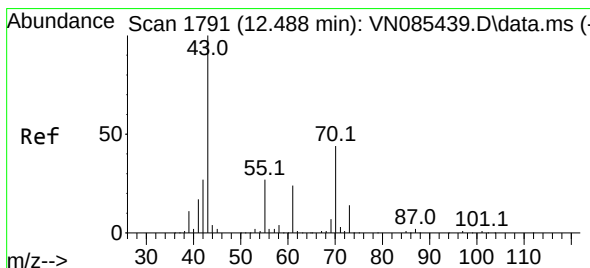
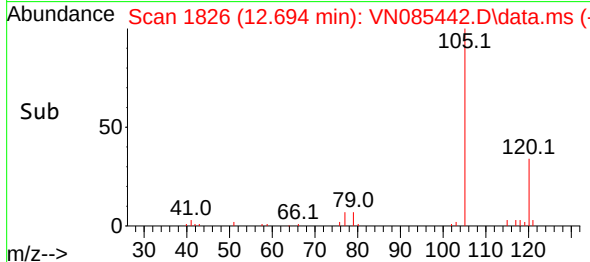
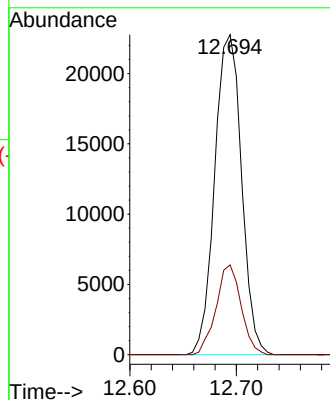
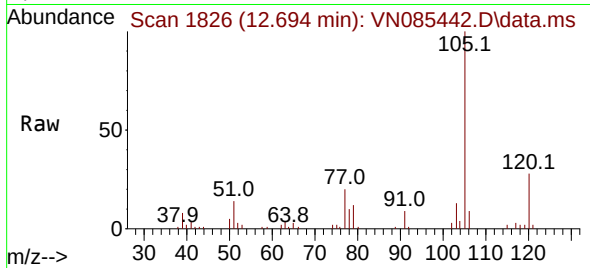




#73
Isopropylbenzene
Concen: 4.678 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

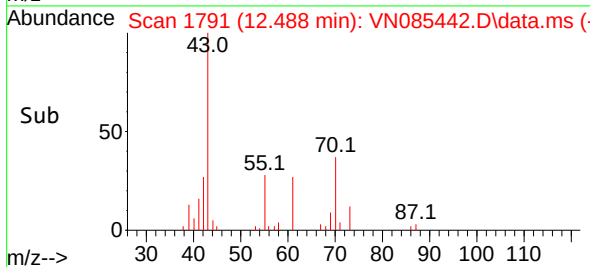
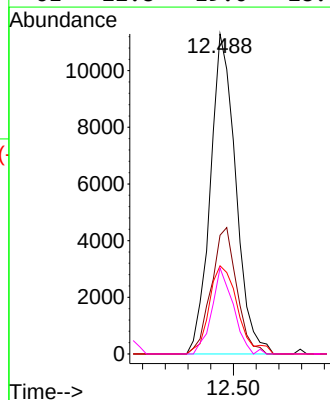
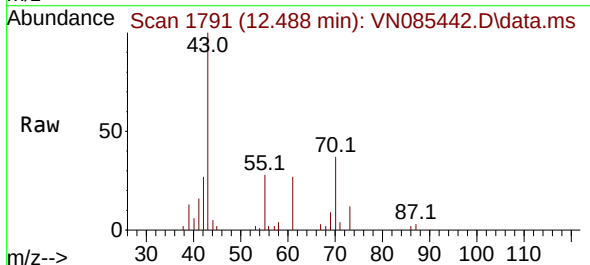
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

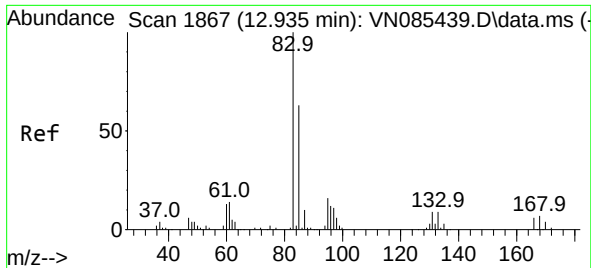
Tgt Ion:105 Resp: 39811
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.3



#74
N-ethyl acetate
Concen: 4.595 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 43 Resp: 17577
Ion Ratio Lower Upper
43 100
70 39.5 34.0 51.0
55 30.8 21.4 32.2
61 22.8 19.0 28.4

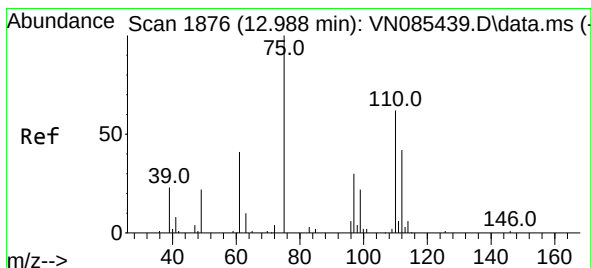
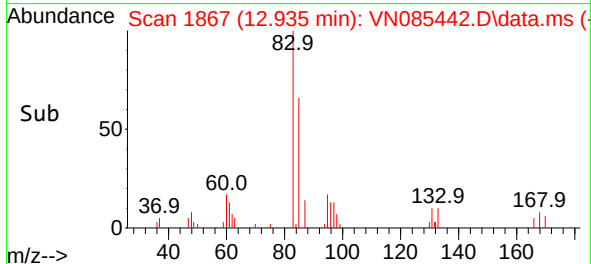
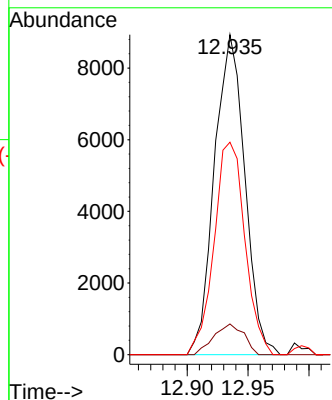
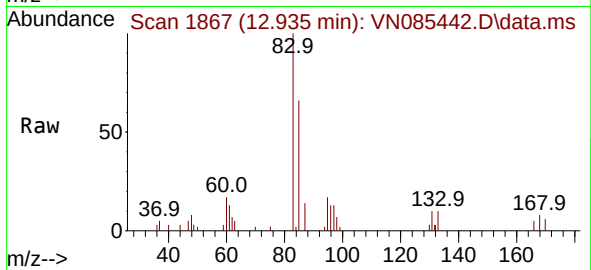




#75
1,1,2,2-Tetrachloroethane
Concen: 5.151 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

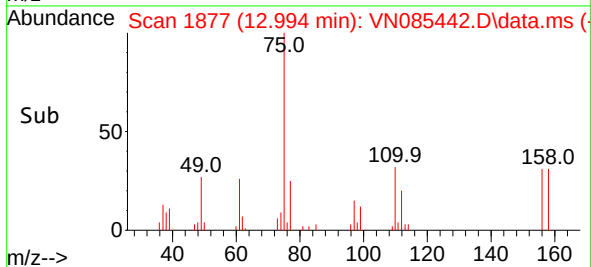
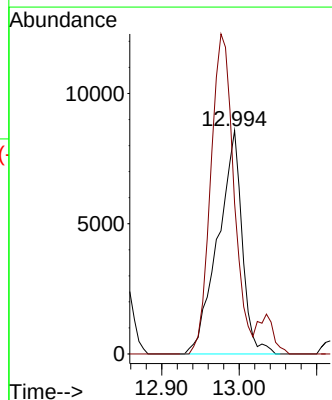
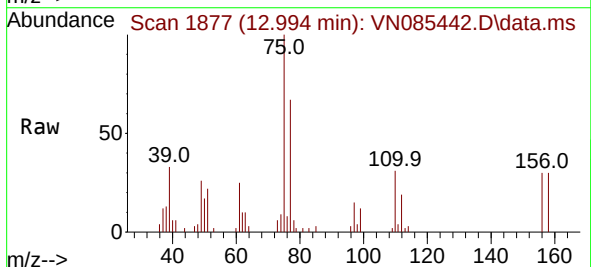
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

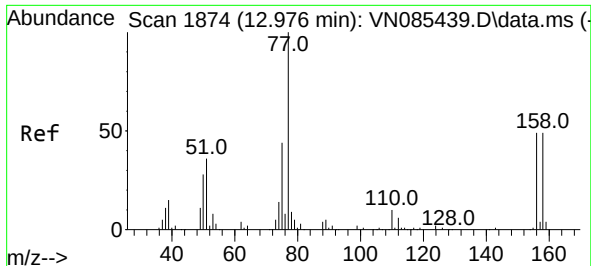
Tgt Ion: 83 Resp: 15483
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 67.5 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 7.279 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 75 Resp: 18624
Ion Ratio Lower Upper
75 100
77 136.7 109.7 329.2

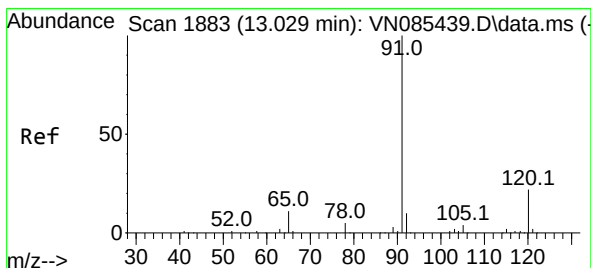
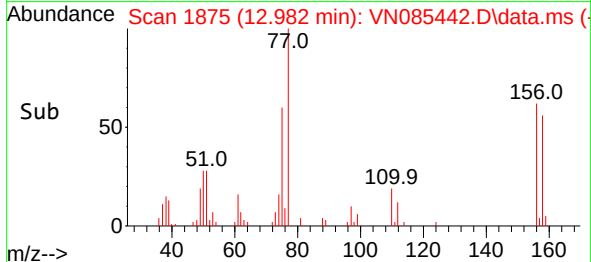
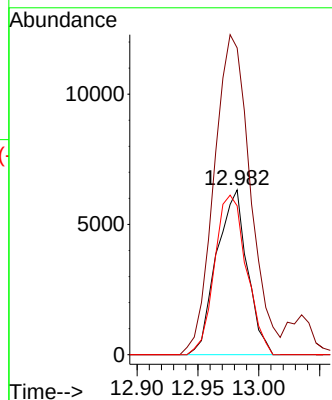
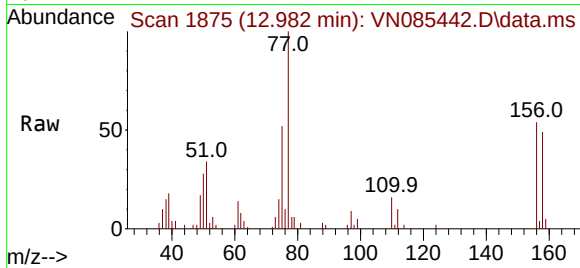




#77
Bromobenzene
Concen: 4.989 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

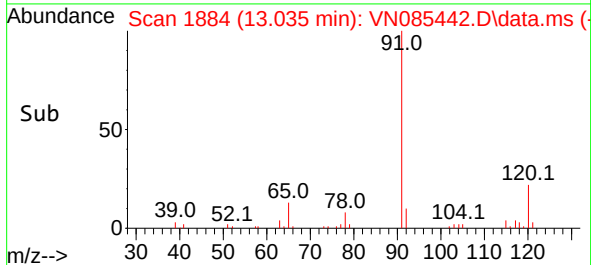
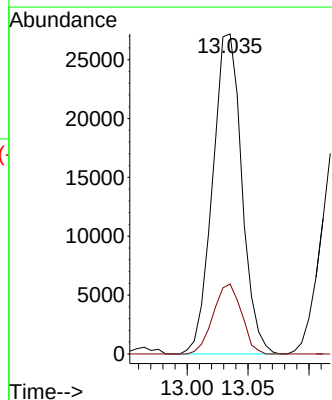
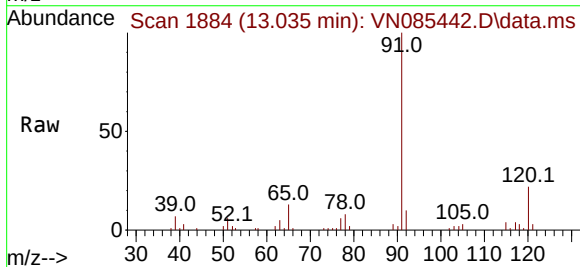
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

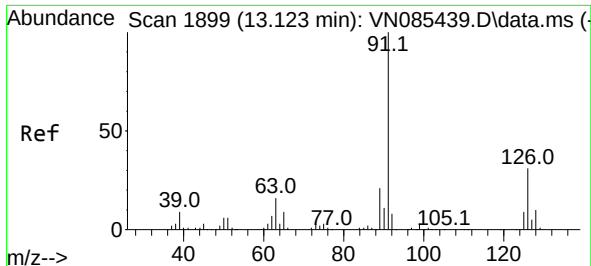
Tgt Ion:156 Resp: 11091
Ion Ratio Lower Upper
156 100
77 229.5 114.1 342.4
158 100.8 48.9 146.8



#78
n-propylbenzene
Concen: 4.512 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 45450
Ion Ratio Lower Upper
91 100
120 21.1 10.9 32.6

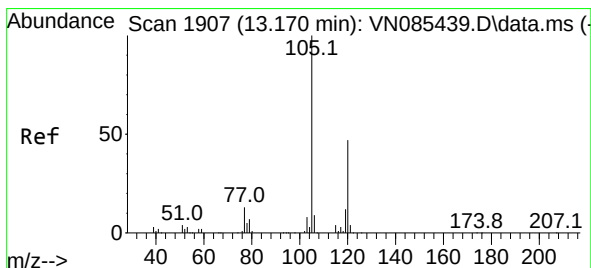
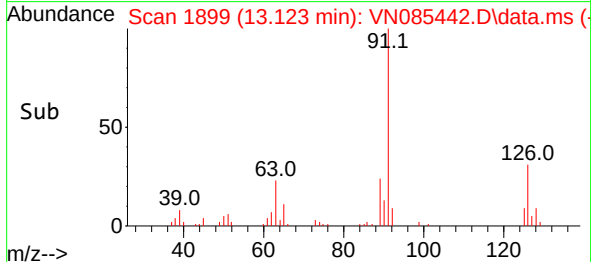
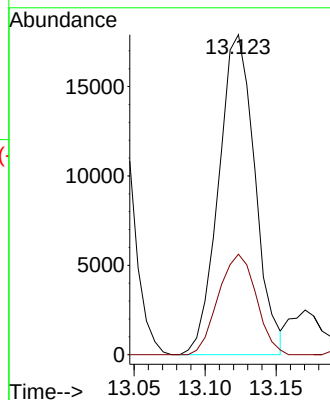
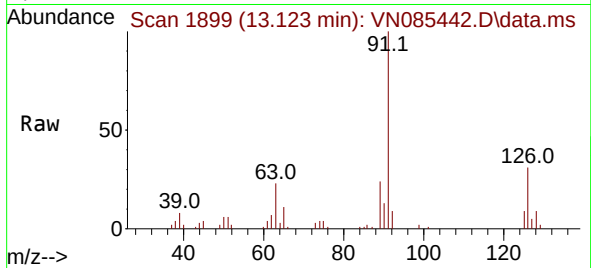




#79
2-Chlorotoluene
Concen: 4.898 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

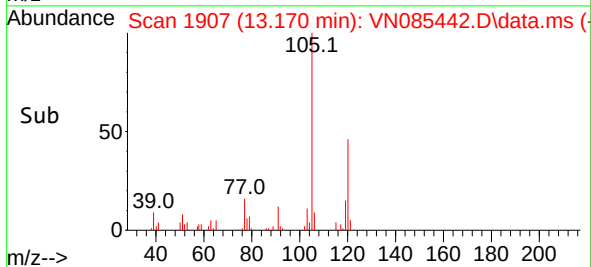
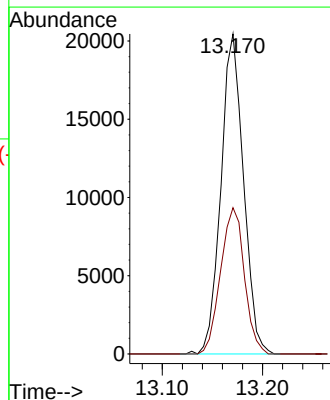
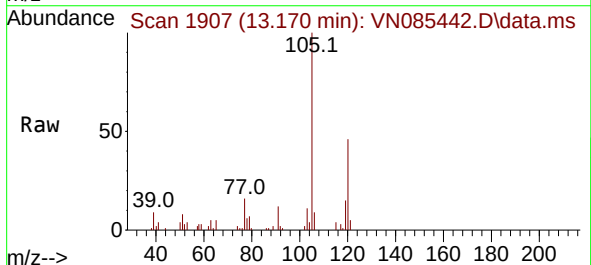
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

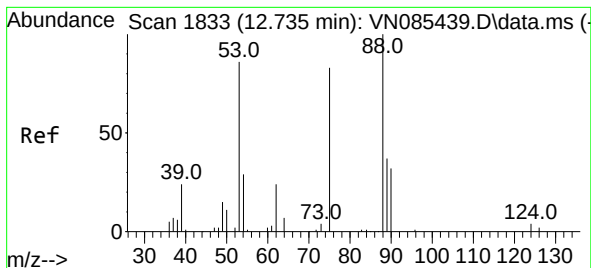
Tgt Ion: 91 Resp: 31932
Ion Ratio Lower Upper
91 100
126 32.6 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 4.537 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 105 Resp: 31891
Ion Ratio Lower Upper
105 100
120 48.1 23.9 71.7

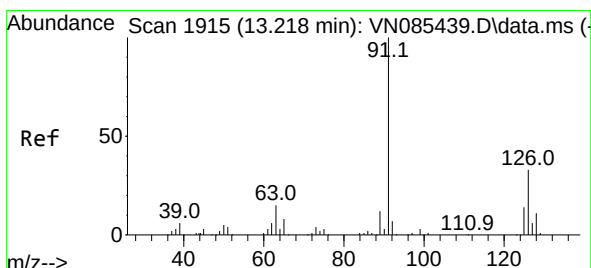
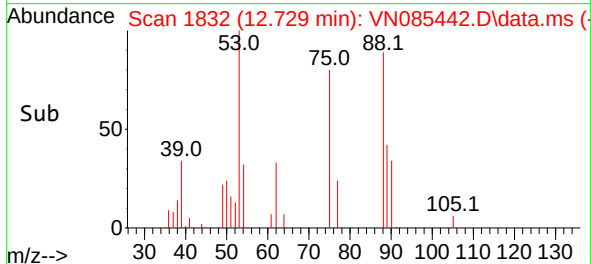
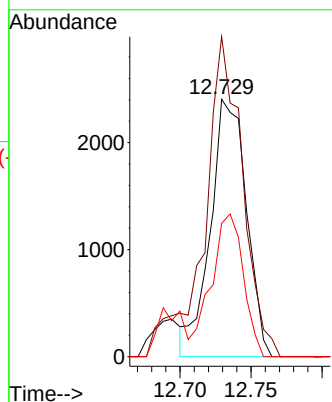
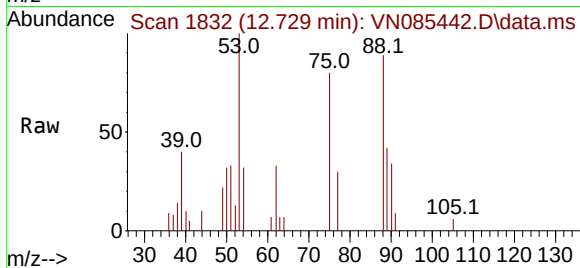




#81
trans-1,4-Dichloro-2-butene
Concen: 4.465 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.006 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

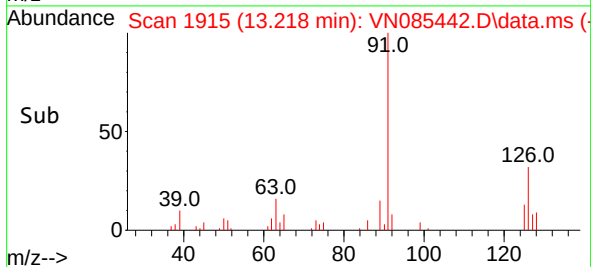
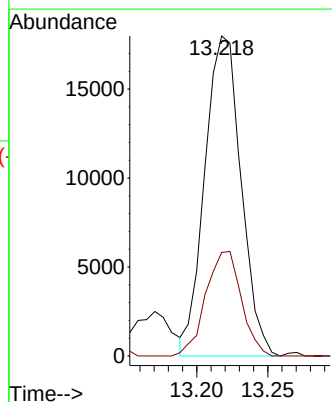
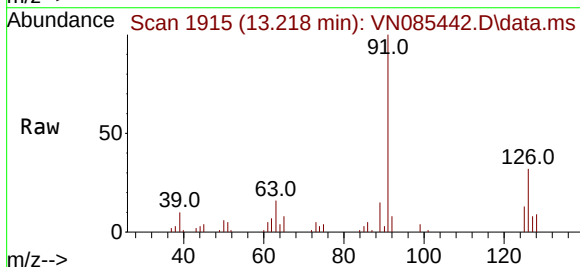
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

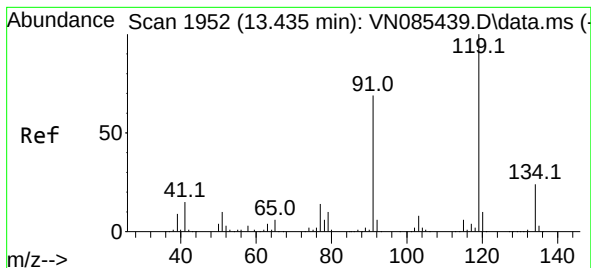
Tgt Ion: 75 Resp: 4229
Ion Ratio Lower Upper
75 100
53 132.6 95.6 143.4
89 49.7 37.0 55.6



#82
4-Chlorotoluene
Concen: 4.926 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion: 91 Resp: 31976
Ion Ratio Lower Upper
91 100
126 31.9 15.9 47.7

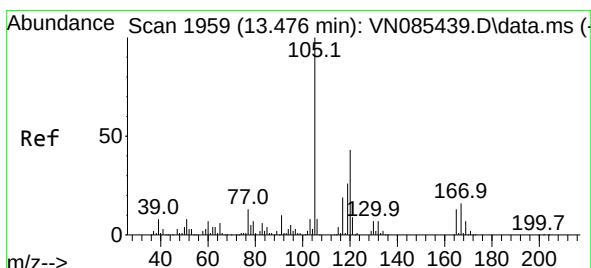
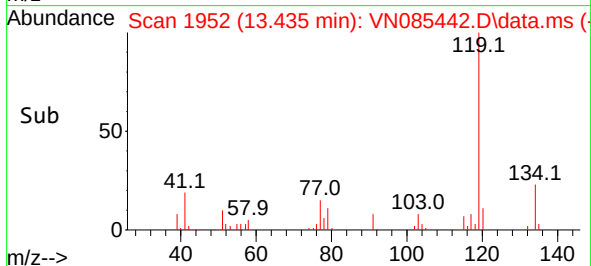
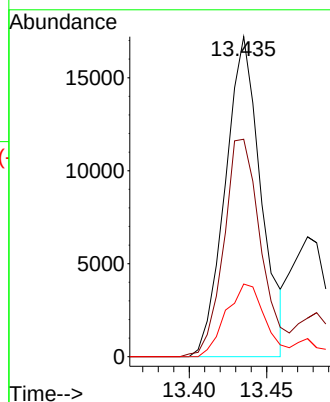
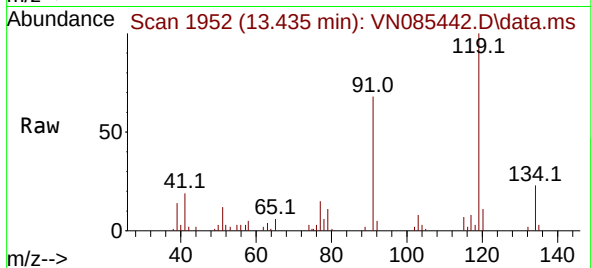




#83
 tert-Butylbenzene
 Concen: 4.675 ug/l
 RT: 13.435 min Scan# 1952
 Delta R.T. 0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

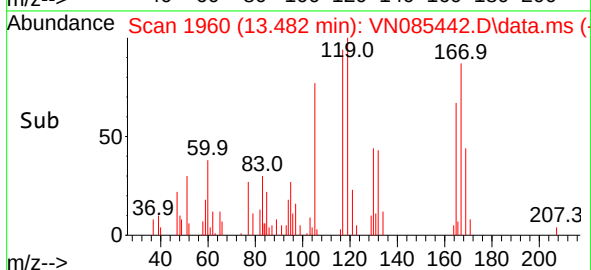
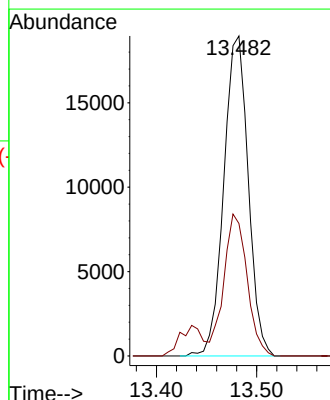
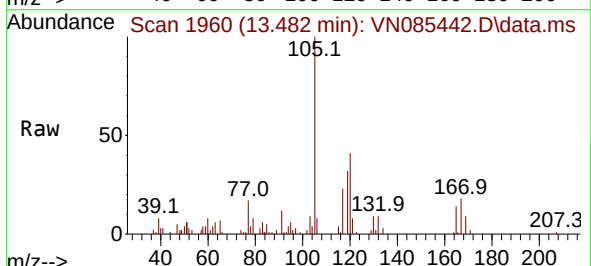
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

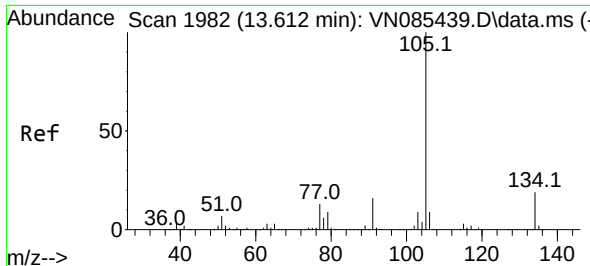
Tgt Ion:119 Resp: 27597
 Ion Ratio Lower Upper
 119 100
 91 71.1 35.1 105.3
 134 24.8 12.0 36.1



#84
 1,2,4-Trimethylbenzene
 Concen: 4.575 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.006 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion:105 Resp: 32054
 Ion Ratio Lower Upper
 105 100
 120 42.0 21.6 65.0

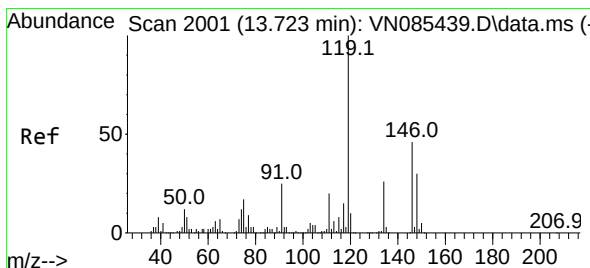
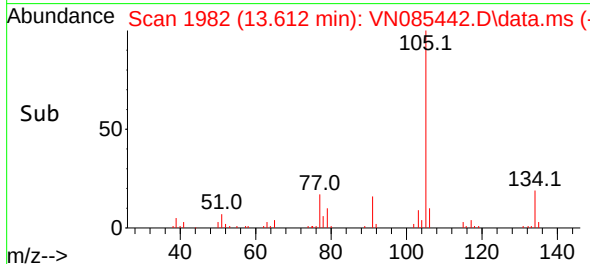
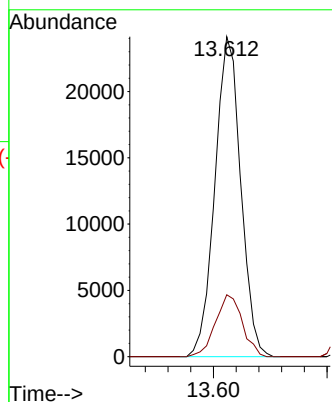
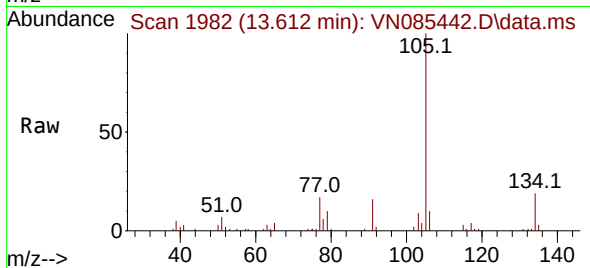




#85
 sec-Butylbenzene
 Concen: 4.663 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

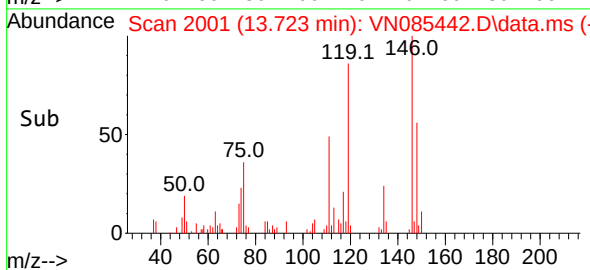
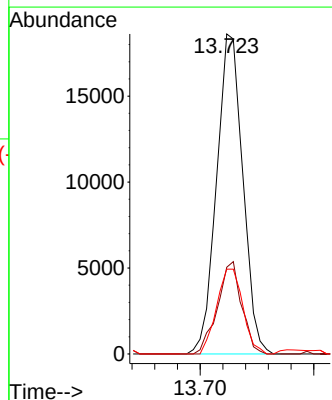
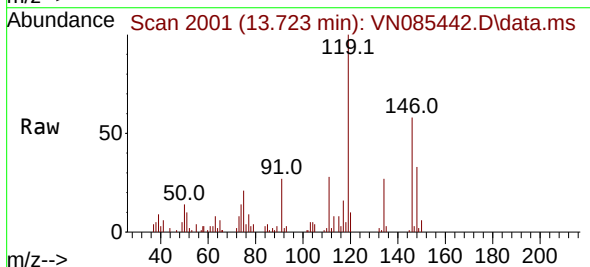
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

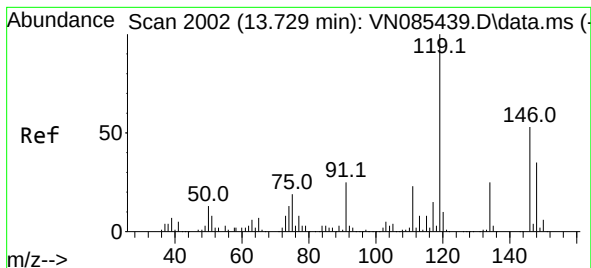
Tgt Ion:105 Resp: 38148
 Ion Ratio Lower Upper
 105 100
 134 20.1 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 4.584 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085442.D
 Acq: 14 Jan 2025 16:31

Tgt Ion:119 Resp: 29856
 Ion Ratio Lower Upper
 119 100
 134 26.5 12.7 38.0
 91 26.5 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 5.099 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

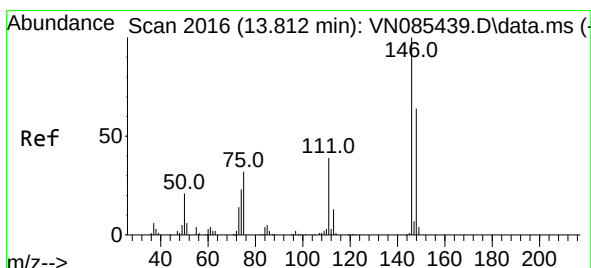
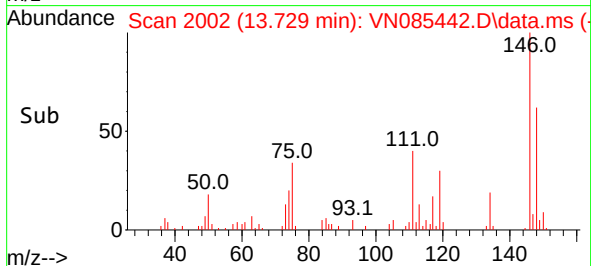
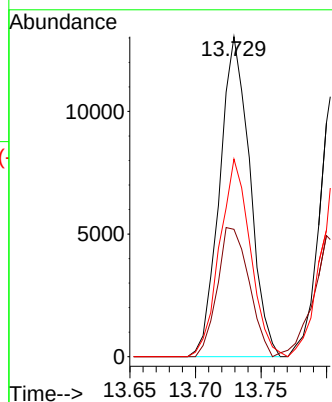
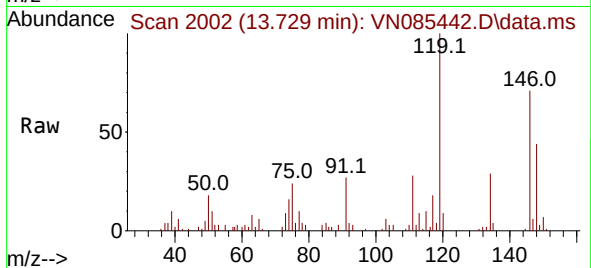
Tgt Ion:146 Resp: 20876

Ion Ratio Lower Upper

146 100

111 42.3 21.4 64.3

148 62.7 32.3 96.9



#88

1,4-Dichlorobenzene

Concen: 5.179 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

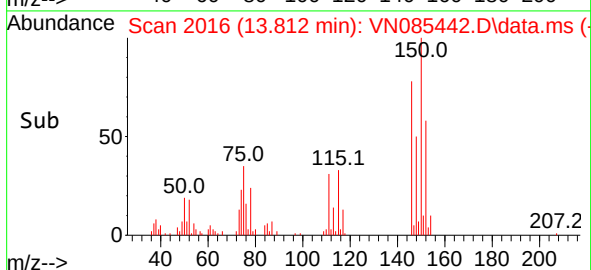
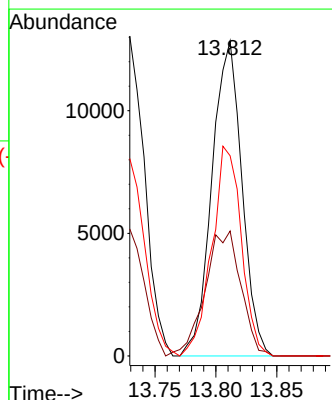
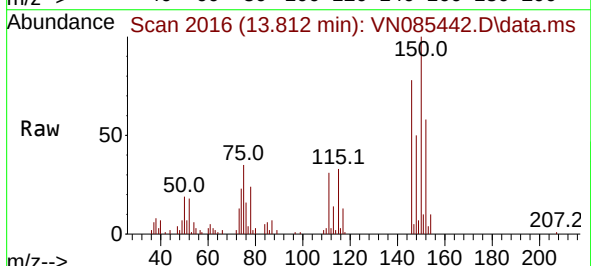
Tgt Ion:146 Resp: 21982

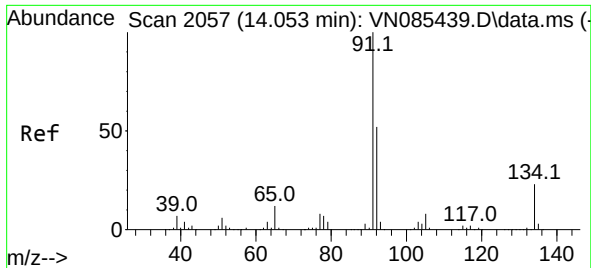
Ion Ratio Lower Upper

146 100

111 47.1 21.3 63.7

148 65.5 32.4 97.0

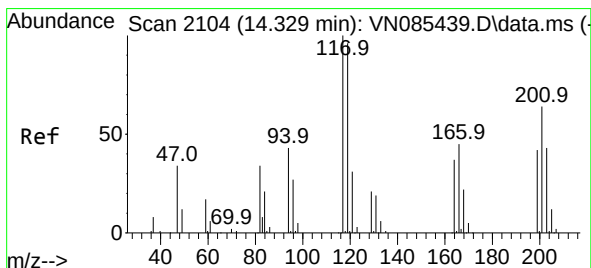
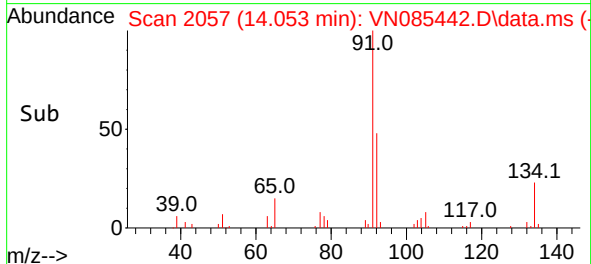
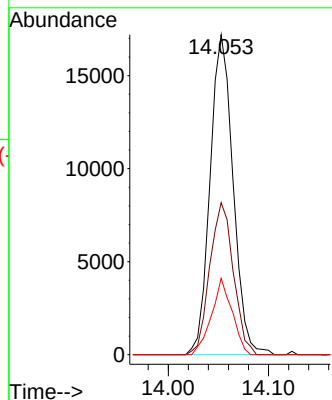
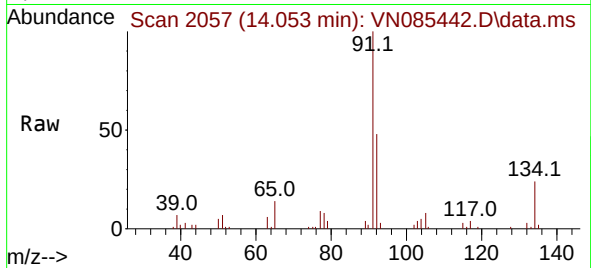




#89
n-Butylbenzene
Concen: 4.675 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

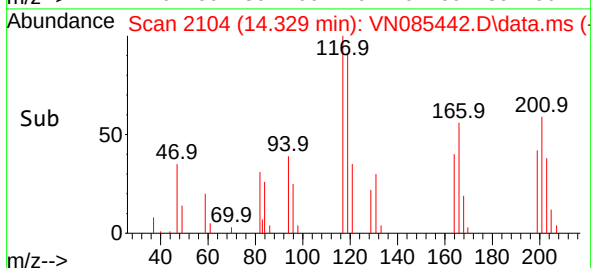
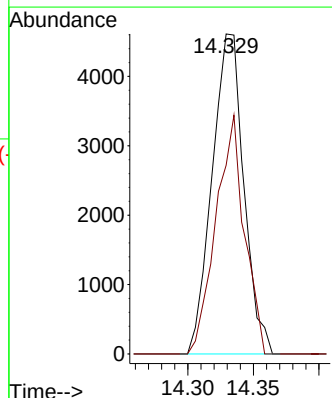
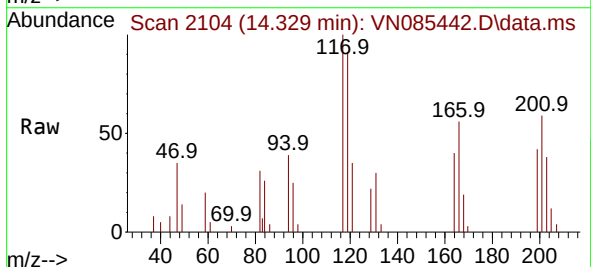
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

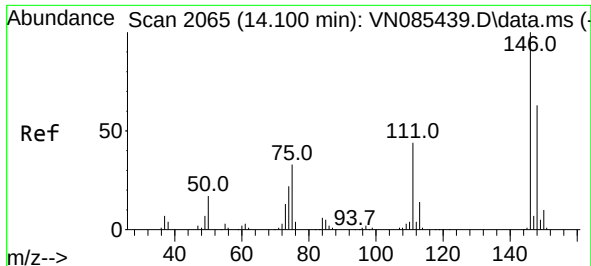
Tgt Ion:	91	Resp:	27437
Ion	Ratio	Lower	Upper
91	100		
92	48.7	25.8	77.3
134	21.4	11.7	35.1



#90
Hexachloroethane
Concen: 4.987 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085442.D
Acq: 14 Jan 2025 16:31

Tgt Ion:	117	Resp:	7767
Ion	Ratio	Lower	Upper
117	100		
201	66.9	33.7	101.0





#91

1,2-Dichlorobenzene

Concen: 4.940 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

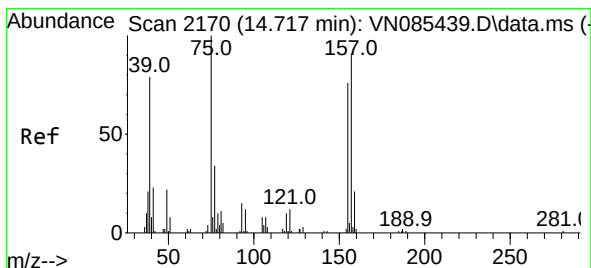
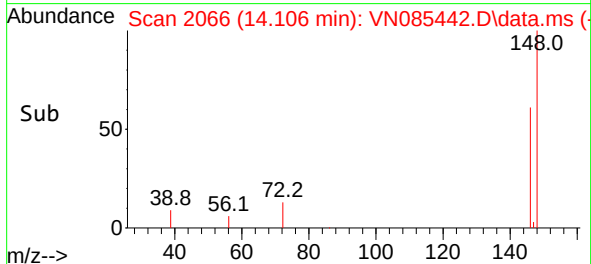
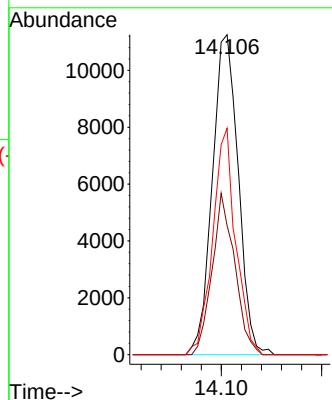
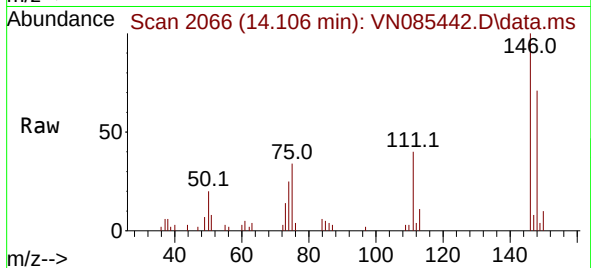
Tgt Ion:146 Resp: 20177

Ion Ratio Lower Upper

146 100

111 44.0 21.7 65.1

148 62.8 31.4 94.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.232 ug/l

RT: 14.729 min Scan# 2172

Delta R.T. 0.012 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

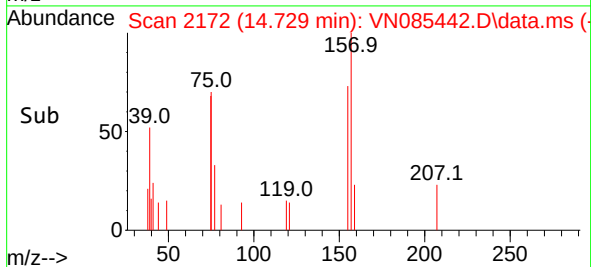
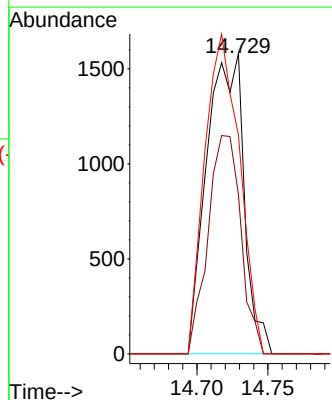
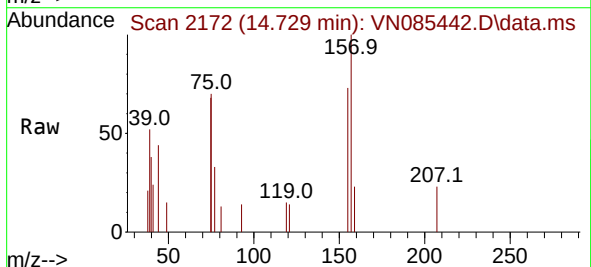
Tgt Ion: 75 Resp: 2872

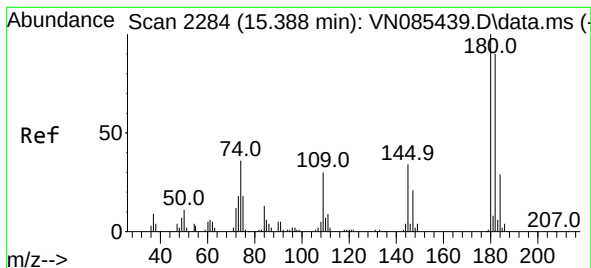
Ion Ratio Lower Upper

75 100

155 64.2 36.4 109.2

157 99.8 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 4.761 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

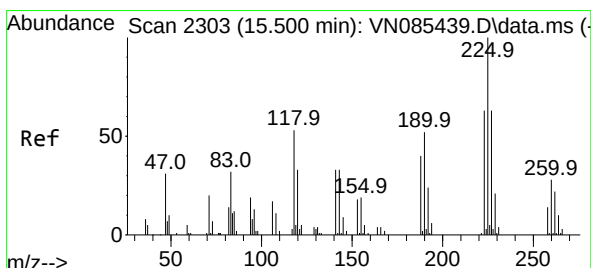
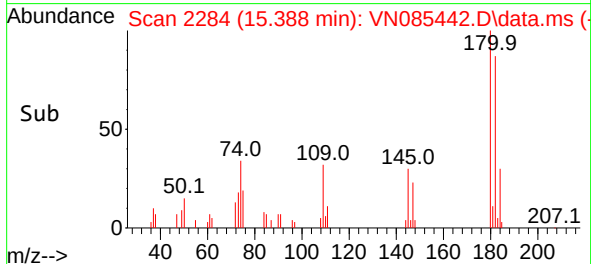
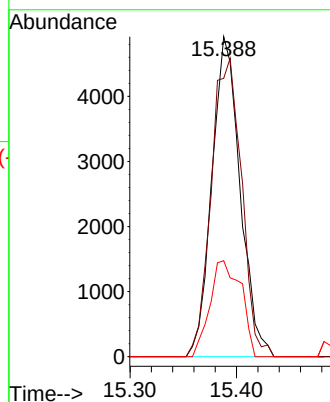
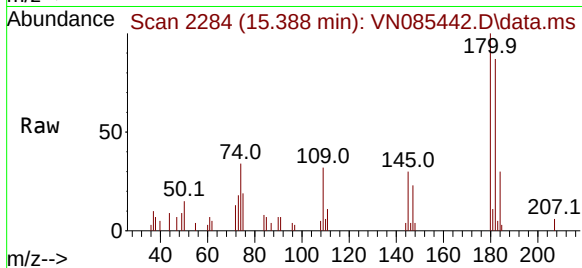
Tgt Ion:180 Resp: 9037

Ion Ratio Lower Upper

180 100

182 100.5 46.8 140.3

145 33.0 16.0 48.0



#94

Hexachlorobutadiene

Concen: 5.520 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

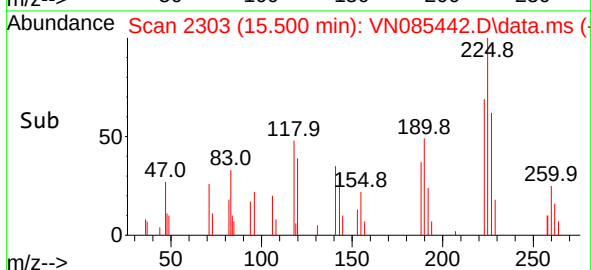
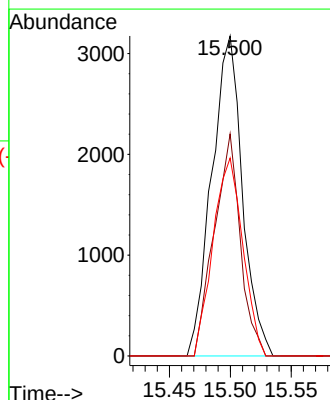
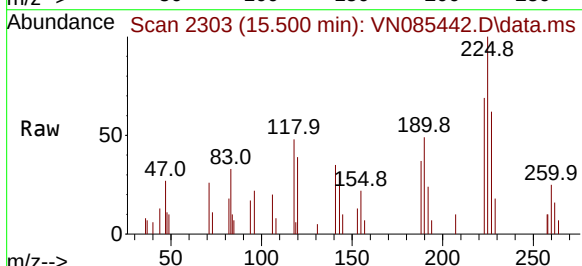
Tgt Ion:225 Resp: 5563

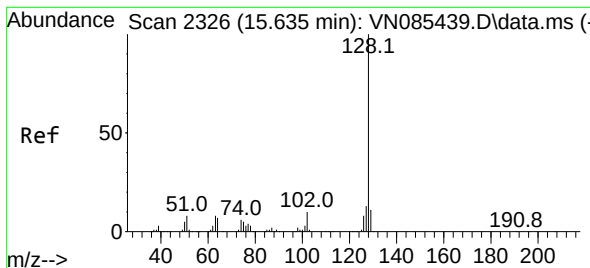
Ion Ratio Lower Upper

225 100

223 59.2 30.7 92.1

227 60.1 30.9 92.5





#95

Naphthalene

Concen: 4.422 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

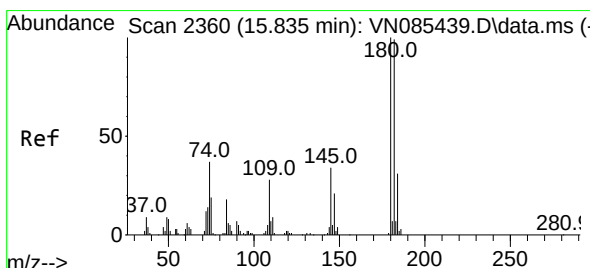
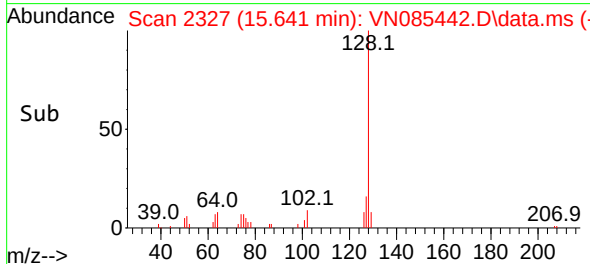
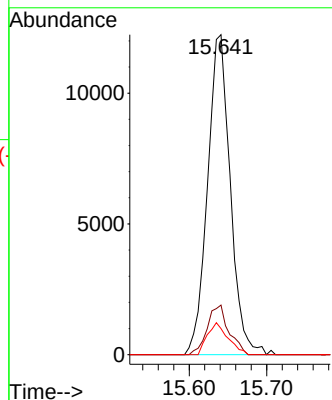
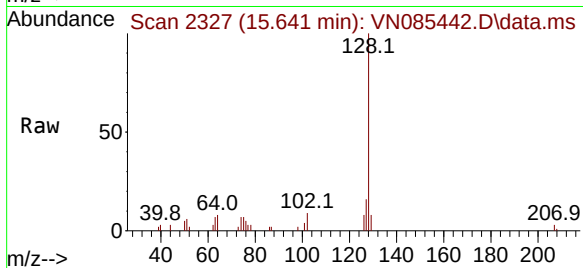
Tgt Ion:128 Resp: 25047

Ion Ratio Lower Upper

128 100

127 14.7 10.6 16.0

129 9.1 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 4.549 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085442.D

Acq: 14 Jan 2025 16:31

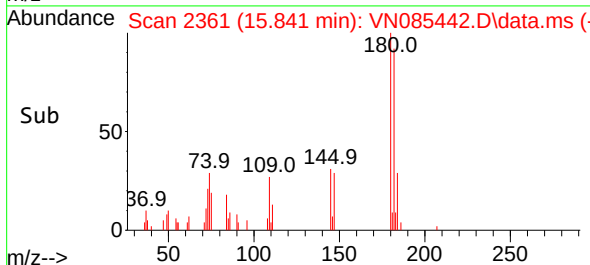
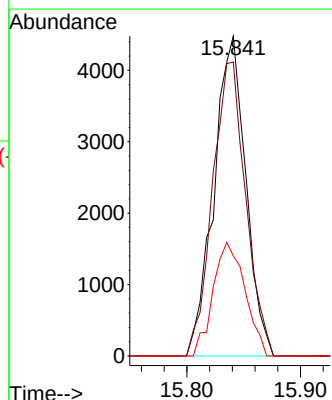
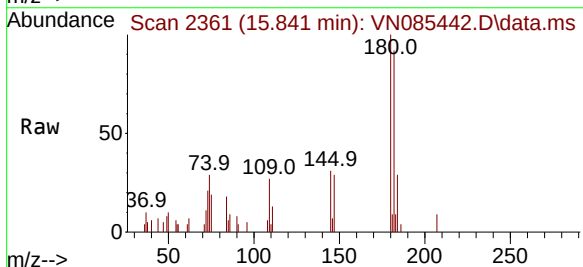
Tgt Ion:180 Resp: 8737

Ion Ratio Lower Upper

180 100

182 95.6 47.4 142.2

145 35.5 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085443.D
 Acq On : 14 Jan 2025 17:19
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Quant Time: Jan 15 01:46:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166880	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	302938	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99539	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	3273	1.215	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	2.440%#
35) Dibromofluoromethane	8.159	113	2258	1.074	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	2.140%#
50) Toluene-d8	10.565	98	7164	0.959	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	1.920%#
62) 4-Bromofluorobenzene	12.841	95	2428	0.951	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	1.900%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	2382	1.054	ug/l	91
3) Chloromethane	2.359	50	2801	1.145	ug/l	93
4) Vinyl Chloride	2.512	62	2732	1.111	ug/l #	81
5) Bromomethane	2.971	94	2279	1.534	ug/l	97
6) Chloroethane	3.124	64	1809	1.160	ug/l	94
7) Trichlorofluoromethane	3.512	101	3860	1.082	ug/l	88
8) Diethyl Ether	3.953	74	1526	1.238	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.359	101	1308	0.651	ug/l #	68
10) Methyl Iodide	4.600	142	2478	1.077	ug/l #	87
11) Tert butyl alcohol	5.512	59	1314	4.260	ug/l #	71
12) 1,1-Dichloroethene	4.330	96	1660	0.927	ug/l #	67
13) Acrolein	4.177	56	1510	3.586	ug/l	86
14) Allyl chloride	5.024	41	3179	1.094	ug/l #	85
15) Acrylonitrile	5.718	53	4967	5.070	ug/l #	70
16) Acetone	4.436	43	5102	5.862	ug/l	92
17) Carbon Disulfide	4.706	76	6601	1.197	ug/l #	87
18) Methyl Acetate	5.030	43	2908	1.099	ug/l #	80
19) Methyl tert-butyl Ether	5.789	73	5156	0.887	ug/l #	87
20) Methylene Chloride	5.265	84	2190	1.016	ug/l #	87
21) trans-1,2-Dichloroethene	5.794	96	2110	1.102	ug/l #	66
22) Diisopropyl ether	6.677	45	5691	0.882	ug/l #	88
23) Vinyl Acetate	6.606	43	22593	4.988	ug/l	98
24) 1,1-Dichloroethane	6.553	63	2873	0.730	ug/l #	84
25) 2-Butanone	7.483	43	5203	4.062	ug/l #	90
26) 2,2-Dichloropropane	7.488	77	3104	0.976	ug/l	92
27) cis-1,2-Dichloroethene	7.477	96	2185	0.969	ug/l	92
28) Bromochloromethane	7.812	49	2082	1.138	ug/l #	89
29) Tetrahydrofuran	7.835	42	3693	4.548	ug/l	98
30) Chloroform	7.965	83	4250	1.045	ug/l #	80
31) Cyclohexane	8.218	56	7152	2.092	ug/l #	1
32) 1,1,1-Trichloroethane	8.165	97	3678	1.031	ug/l #	56
36) 1,1-Dichloropropene	8.371	75	3084	1.046	ug/l #	84
37) Ethyl Acetate	7.553	43	911	0.306	ug/l #	88
38) Carbon Tetrachloride	8.359	117	3436	1.018	ug/l	90
39) Methylcyclohexane	9.600	83	2403	0.867	ug/l #	87
40) Benzene	8.606	78	8480	0.957	ug/l	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085443.D
 Acq On : 14 Jan 2025 17:19
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Quant Time: Jan 15 01:46:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 01:28:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	1458	0.941	ug/l #	76
42) 1,2-Dichloroethane	8.665	62	3131	0.938	ug/l	91
43) Isopropyl Acetate	8.682	43	4803	1.007	ug/l #	87
44) Trichloroethene	9.347	130	2133	1.034	ug/l	71
45) 1,2-Dichloropropane	9.618	63	2246	0.992	ug/l	99
46) Dibromomethane	9.706	93	1769	1.083	ug/l	92
47) Bromodichloromethane	9.882	83	2935	0.882	ug/l	90
48) Methyl methacrylate	9.677	41	1886	0.878	ug/l	96
49) 1,4-Dioxane	9.688	88	673	18.616	ug/l #	47
51) 4-Methyl-2-Pentanone	10.441	43	11523	4.163	ug/l	93
52) Toluene	10.618	92	4180	0.814	ug/l	93
53) t-1,3-Dichloropropene	10.835	75	2522	0.802	ug/l	92
54) cis-1,3-Dichloropropene	10.312	75	2725	0.811	ug/l #	83
55) 1,1,2-Trichloroethane	11.018	97	1901	0.935	ug/l	91
56) Ethyl methacrylate	10.871	69	1923	2.471	ug/l #	88
57) 1,3-Dichloropropane	11.165	76	3113	0.881	ug/l	95
58) 2-Chloroethyl Vinyl ether	10.153	63	4929	3.822	ug/l	91
59) 2-Hexanone	11.194	43	7905	4.058	ug/l	87
60) Dibromochloromethane	11.359	129	2339	0.953	ug/l	98
61) 1,2-Dibromoethane	11.465	107	2022	1.000	ug/l	90
64) Tetrachloroethene	11.106	164	1658	0.947	ug/l #	83
65) Chlorobenzene	11.888	112	5401	0.960	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.959	131	2185	1.058	ug/l #	64
67) Ethyl Benzene	11.959	91	7347	0.802	ug/l	94
68) m/p-Xylenes	12.070	106	5059	1.494	ug/l	100
69) o-Xylene	12.394	106	2478	0.766	ug/l	97
70) Styrene	12.406	104	3812	0.712	ug/l	99
71) Bromoform	12.582	173	1208	0.818	ug/l #	88
73) Isopropylbenzene	12.688	105	5506	0.820	ug/l	98
74) N-amyl acetate	12.494	43	2716	0.899	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.935	83	2616	1.102	ug/l #	96
76) 1,2,3-Trichloropropane	12.982	75	3212	1.590	ug/l	42
77) Bromobenzene	12.976	156	1733	0.987	ug/l	97
78) n-propylbenzene	13.029	91	6424	0.808	ug/l	93
79) 2-Chlorotoluene	13.117	91	4483	0.871	ug/l	97
80) 1,3,5-Trimethylbenzene	13.165	105	4301	0.775	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.735	75	695	0.929	ug/l #	76
82) 4-Chlorotoluene	13.223	91	4268	0.833	ug/l	99
83) tert-Butylbenzene	13.435	119	3753	0.805	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	3758	0.679	ug/l	93
85) sec-Butylbenzene	13.612	105	4614	0.714	ug/l	99
86) p-Isopropyltoluene	13.723	119	3538	0.716	ug/l	98
87) 1,3-Dichlorobenzene	13.723	146	3038	0.940	ug/l	95
88) 1,4-Dichlorobenzene	13.723	146	3038	0.907	ug/l	95
89) n-Butylbenzene	14.053	91	3527	0.761	ug/l	93
90) Hexachloroethane	14.341	117	1355	1.102	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	3515	1.090	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	402	0.928	ug/l	74
93) 1,2,4-Trichlorobenzene	15.394	180	1310	0.874	ug/l #	80
94) Hexachlorobutadiene	15.500	225	822	1.033	ug/l	89
95) Naphthalene	15.641	128	4210	0.941	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.835	180	1494	0.985	ug/l #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085443.D
Acq On : 14 Jan 2025 17:19
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

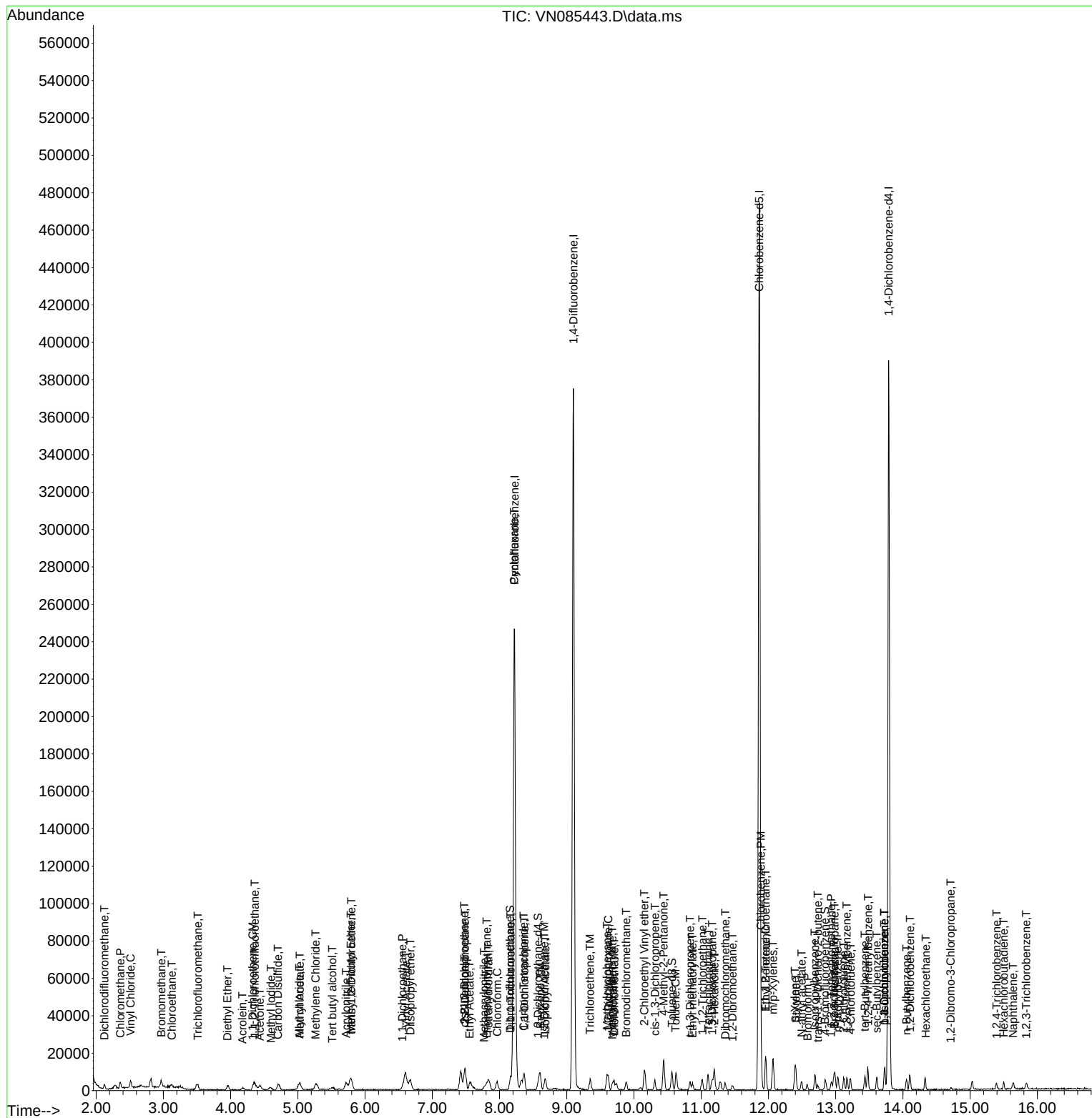
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

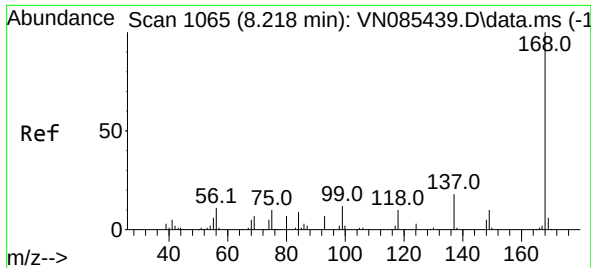
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jan 15 01:46:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 01:28:51 2025
Response via : Initial Calibration

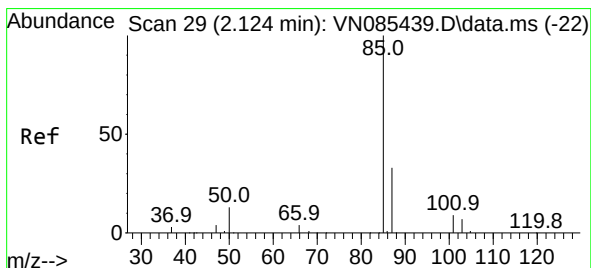
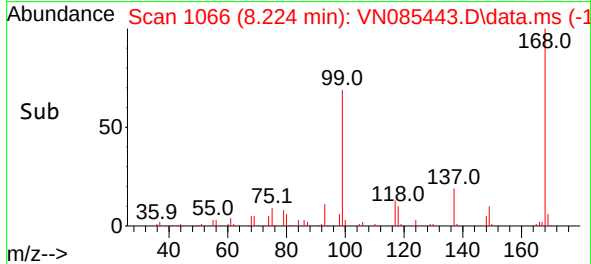
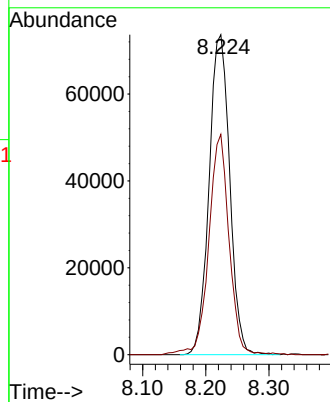
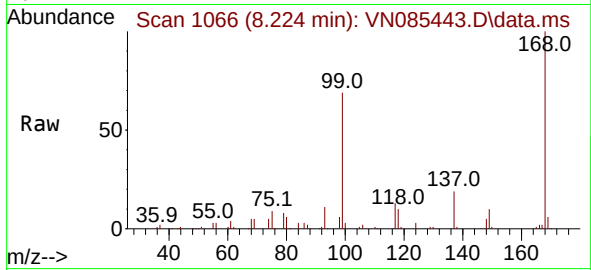




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

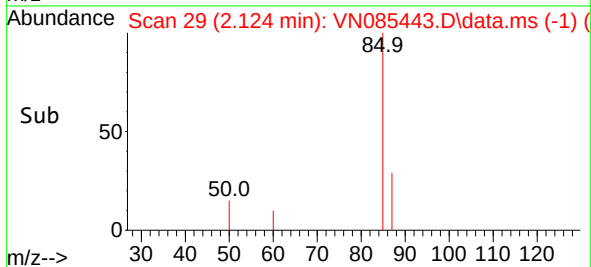
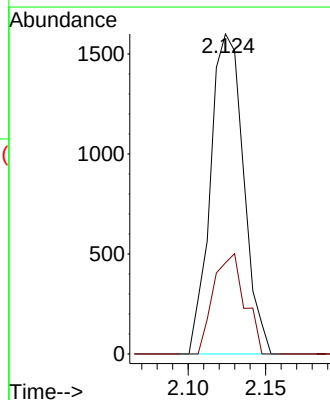
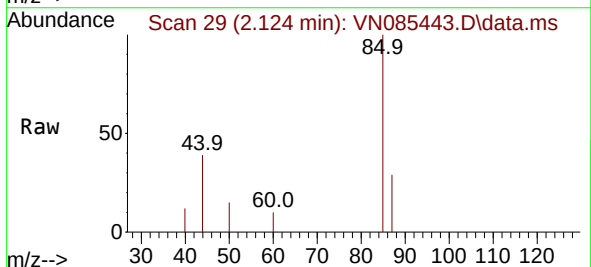
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

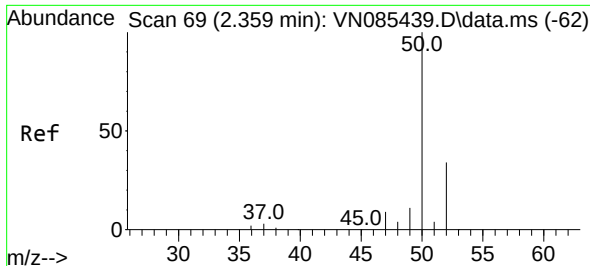
Tgt Ion:168 Resp: 166880
Ion Ratio Lower Upper
168 100
99 68.6 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 1.054 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 85 Resp: 2382
Ion Ratio Lower Upper
85 100
87 28.5 16.7 50.1

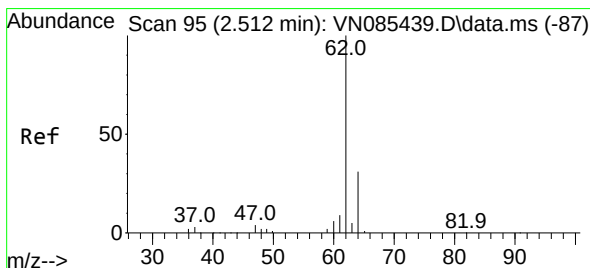
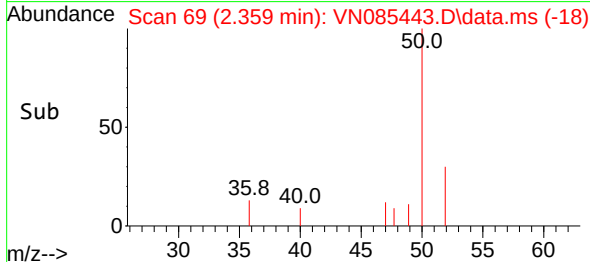
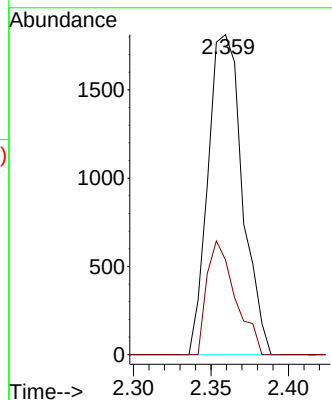
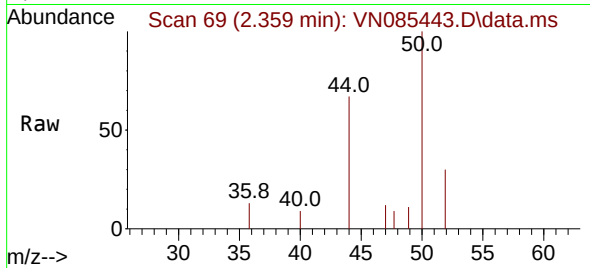




#3
Chloromethane
Concen: 1.145 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

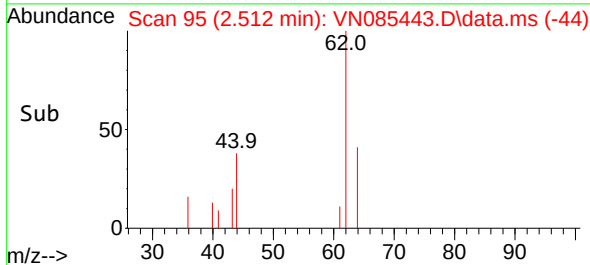
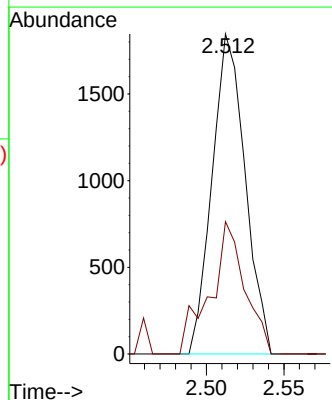
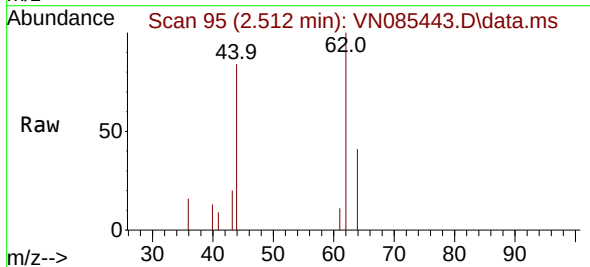
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ClientSampleId :
VSTDICC001

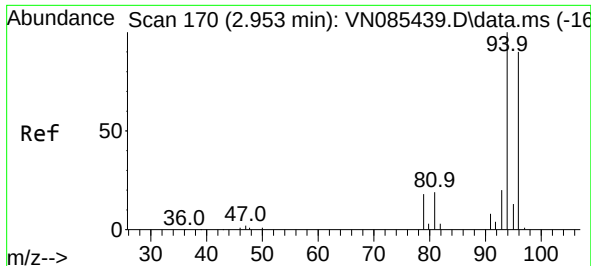
Tgt Ion: 50 Resp: 2801
Ion Ratio Lower Upper
50 100
52 29.7 27.0 40.6



#4
Vinyl Chloride
Concen: 1.111 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62 Resp: 2732
Ion Ratio Lower Upper
62 100
64 41.4 24.8 37.2#

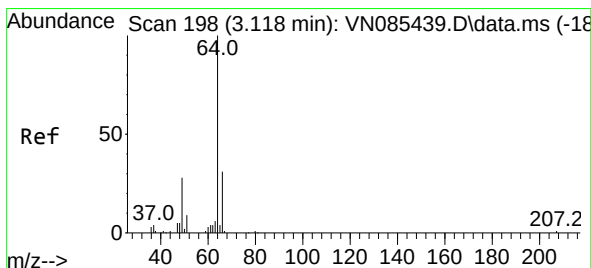
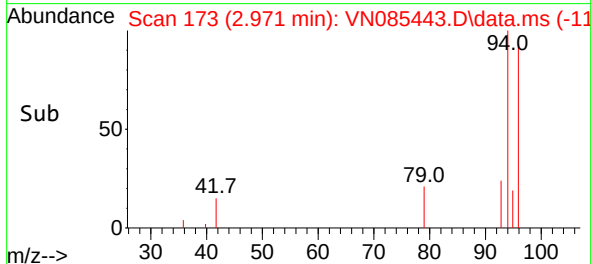
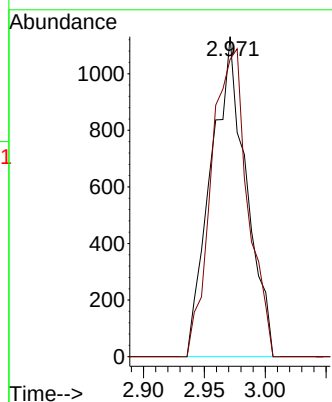
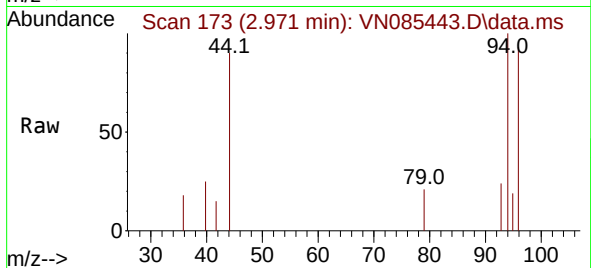




#5
Bromomethane
Concen: 1.534 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

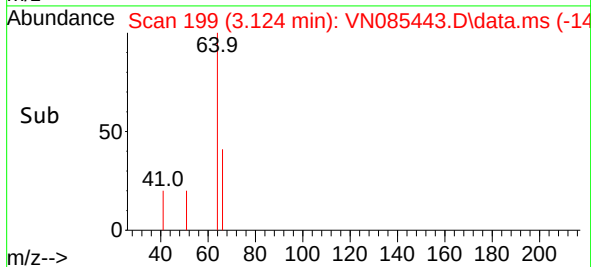
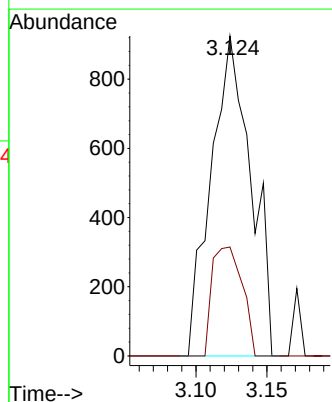
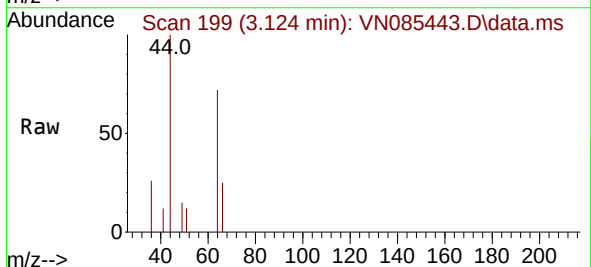
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

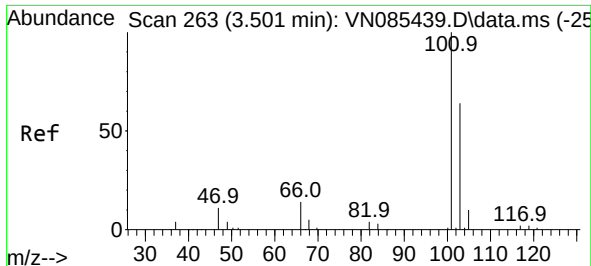
Tgt Ion: 94 Resp: 2279
Ion Ratio Lower Upper
94 100
96 92.9 71.8 107.6



#6
Chloroethane
Concen: 1.160 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 64 Resp: 1809
Ion Ratio Lower Upper
64 100
66 34.1 24.6 36.8

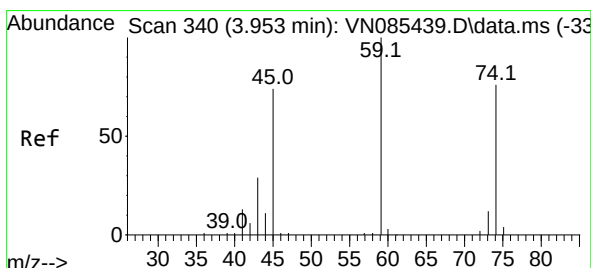
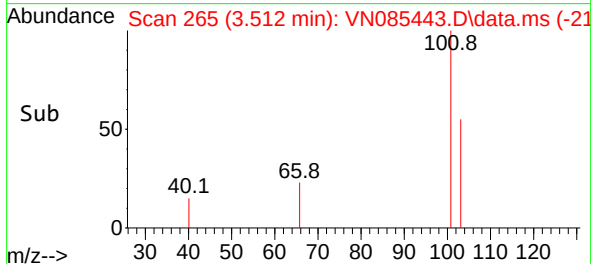
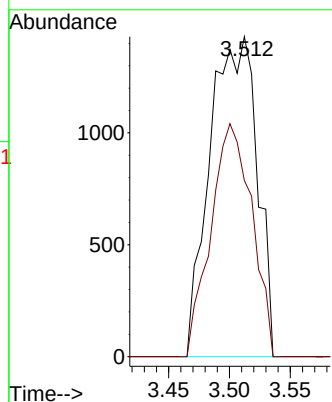
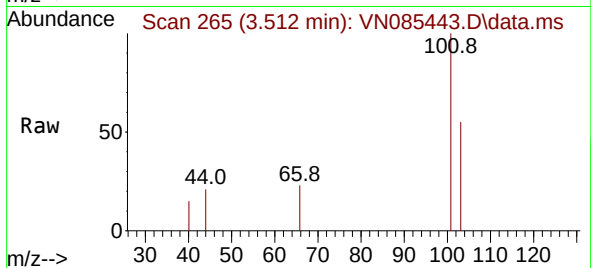




#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 3.512 min Scan# 210
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

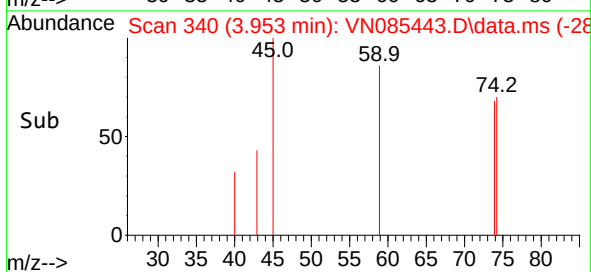
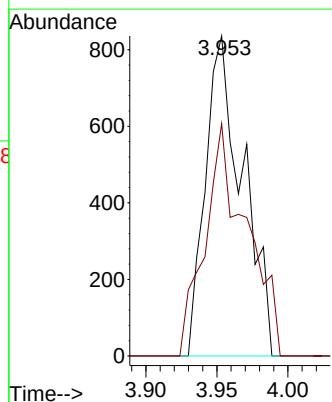
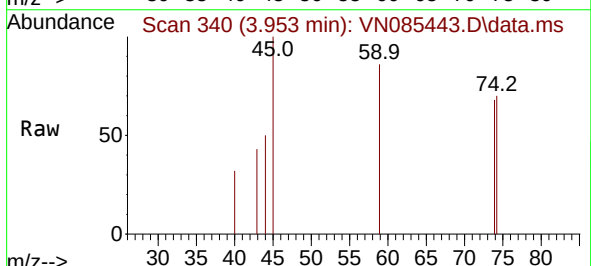
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

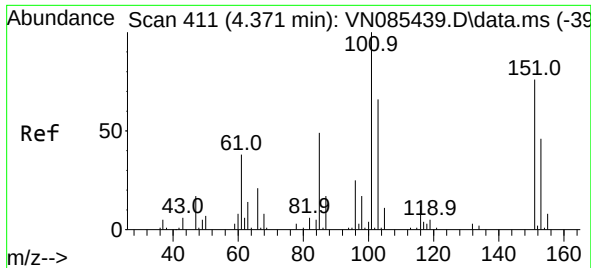
Tgt Ion:101 Resp: 3860
Ion Ratio Lower Upper
101 100
103 55.0 51.4 77.2



#8
Diethyl Ether
Concen: 1.238 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 74 Resp: 1526
Ion Ratio Lower Upper
74 100
45 80.9 49.7 149.1

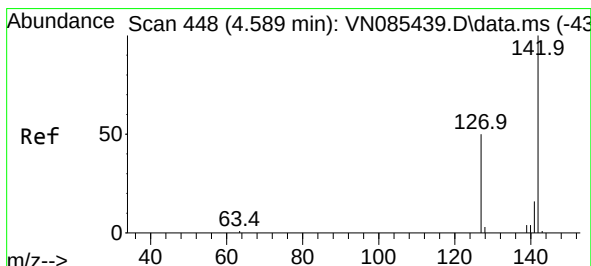
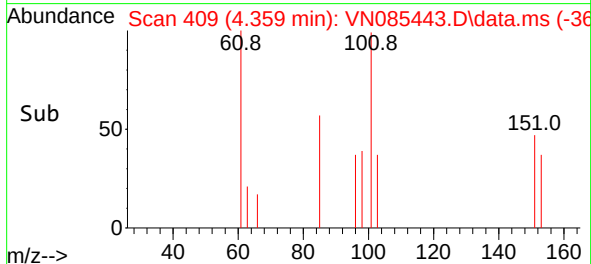
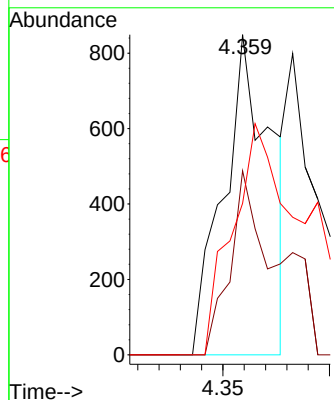
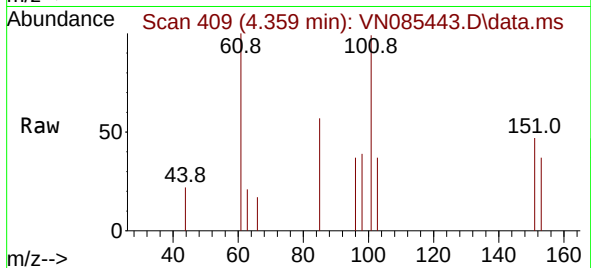




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.651 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

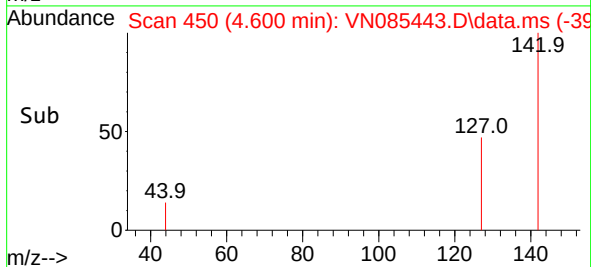
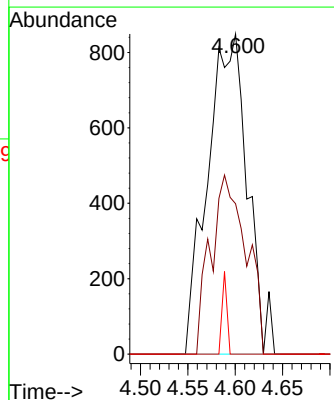
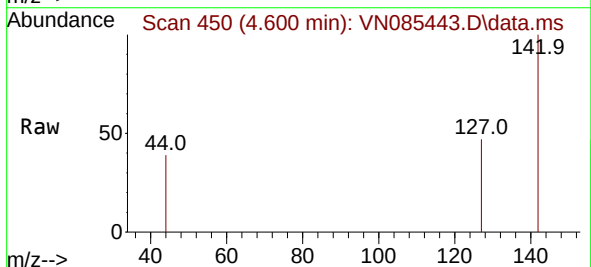
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

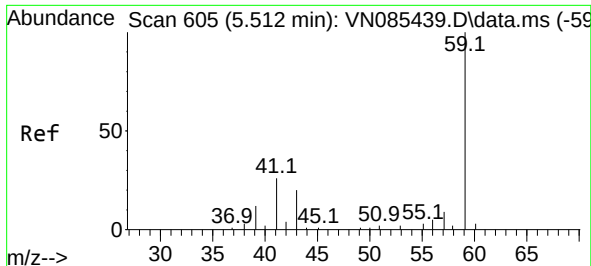
Tgt Ion:101 Resp: 1308
Ion Ratio Lower Upper
101 100
85 58.3 37.8 56.8#
151 109.4 58.8 88.2#



#10
Methyl Iodide
Concen: 1.077 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

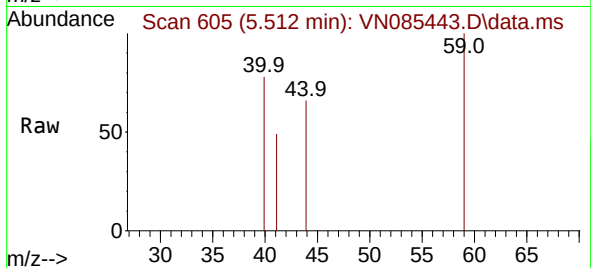
Tgt Ion:142 Resp: 2478
Ion Ratio Lower Upper
142 100
127 47.0 40.3 60.5
141 0.0 12.8 19.2#



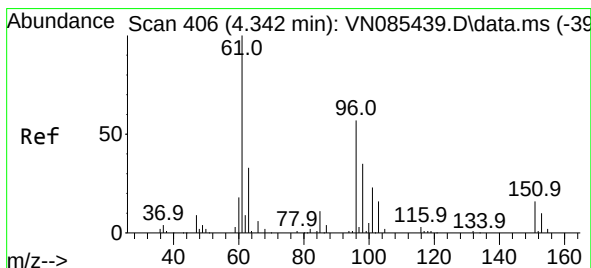
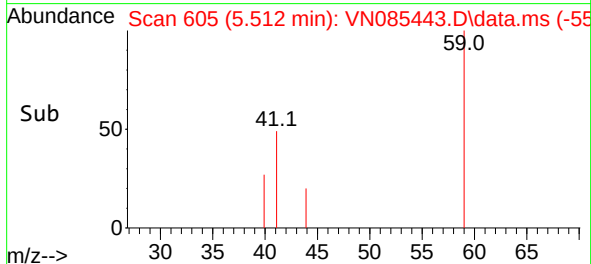
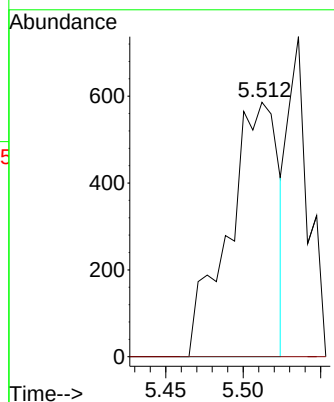


#11
Tert butyl alcohol
Concen: 4.260 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

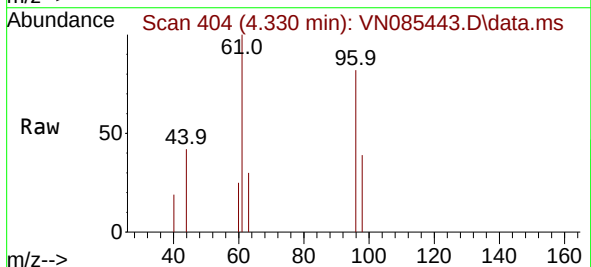
Instrument : MSVOA_N
ClientSampleId : VSTDIC001



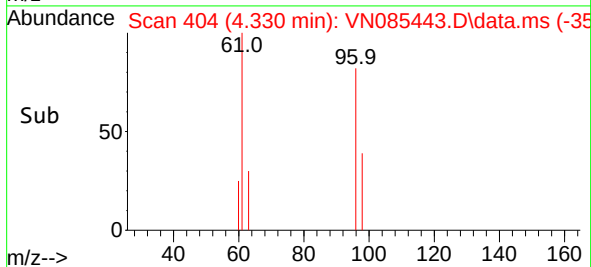
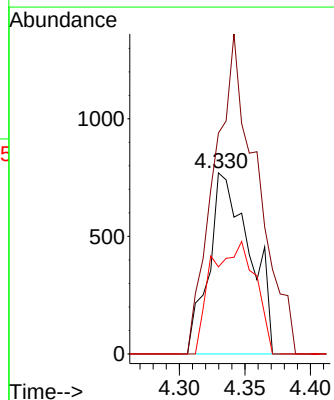
Tgt Ion: 59 Resp: 1314
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

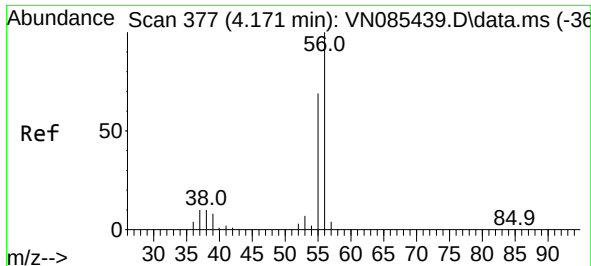


#12
1,1-Dichloroethene
Concen: 0.927 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19



Tgt Ion: 96 Resp: 1660
Ion Ratio Lower Upper
96 100
61 122.1 141.0 211.4#
98 48.1 49.0 73.6#





#13

Acrolein

Concen: 3.586 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

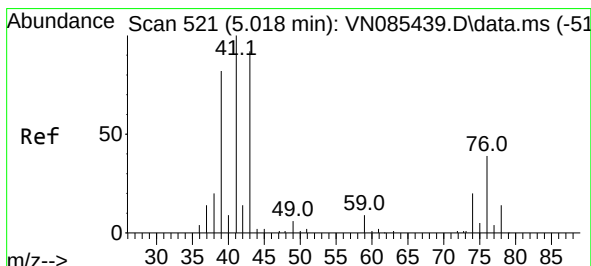
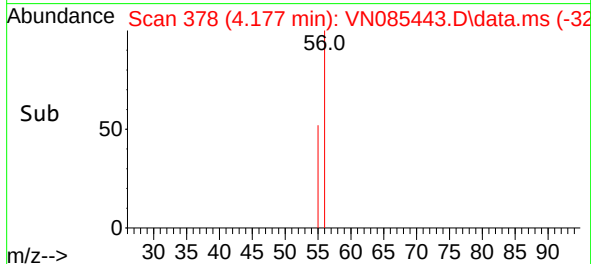
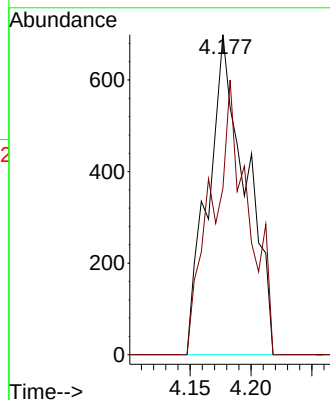
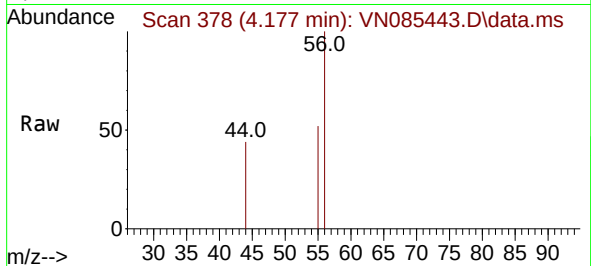
VSTDIC001

Tgt Ion: 56 Resp: 1510

Ion Ratio Lower Upper

56 100

55 81.8 56.3 84.5



#14

Allyl chloride

Concen: 1.094 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

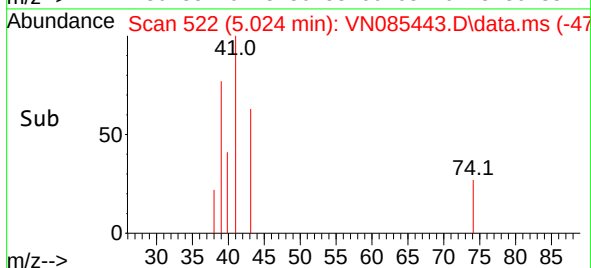
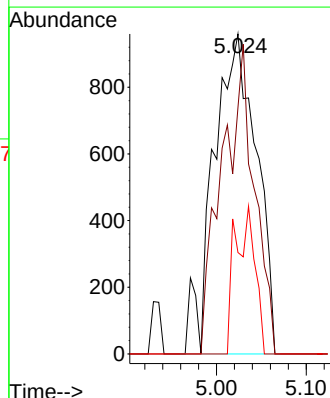
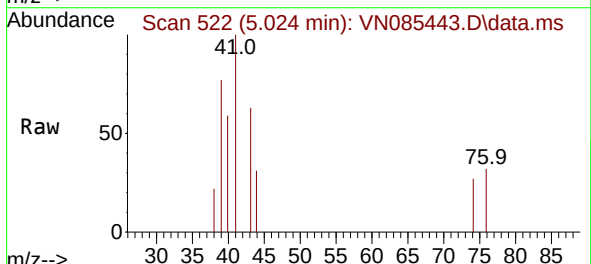
Tgt Ion: 41 Resp: 3179

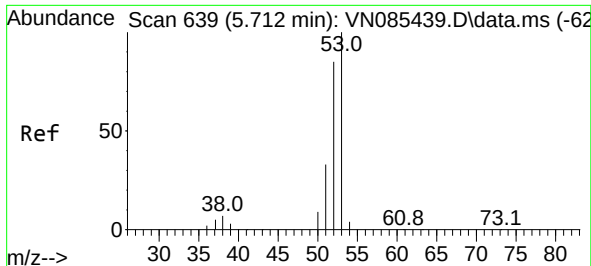
Ion Ratio Lower Upper

41 100

39 73.1 64.4 96.6

76 21.4 30.5 45.7#

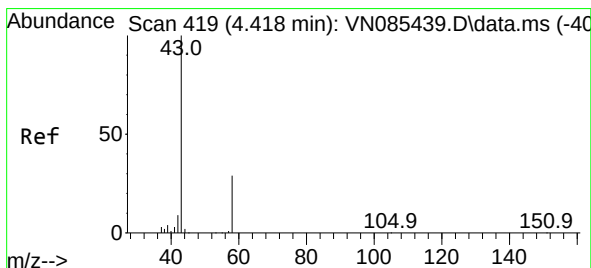
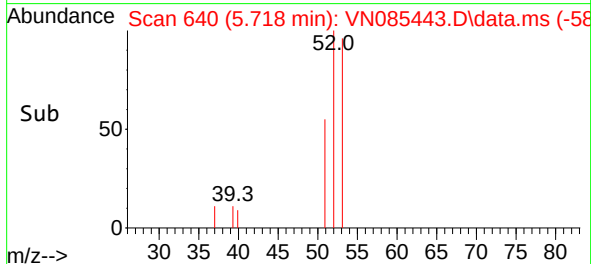
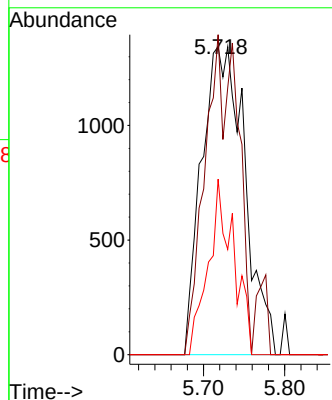
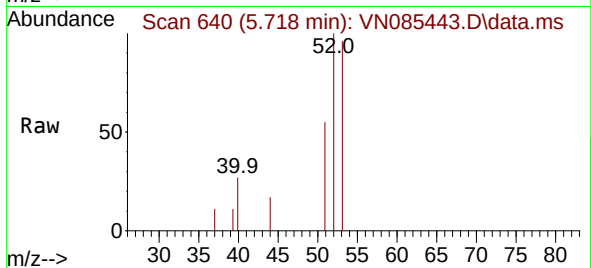




#15
Acrylonitrile
Concen: 5.070 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

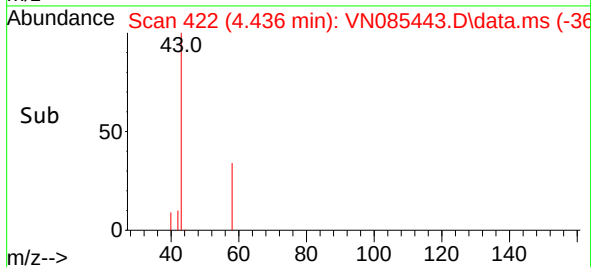
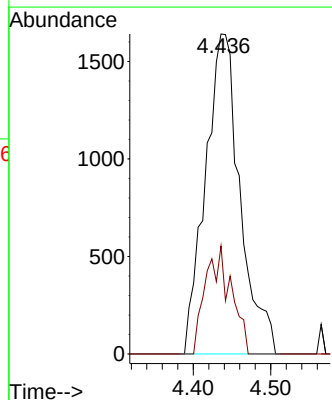
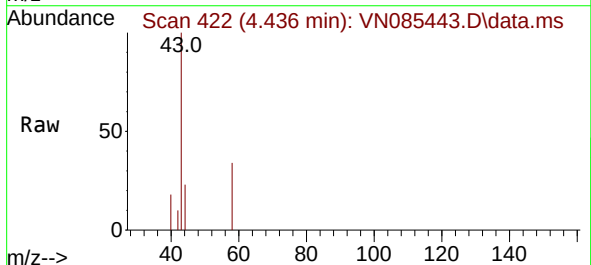
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

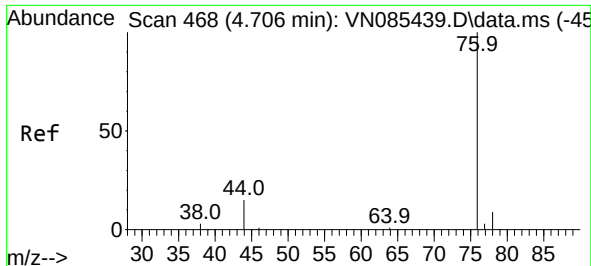
Tgt Ion: 53 Resp: 4967
Ion Ratio Lower Upper
53 100
52 45.1 65.5 98.3#
51 33.3 29.8 44.8



#16
Acetone
Concen: 5.862 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 5102
Ion Ratio Lower Upper
43 100
58 33.8 23.8 35.6

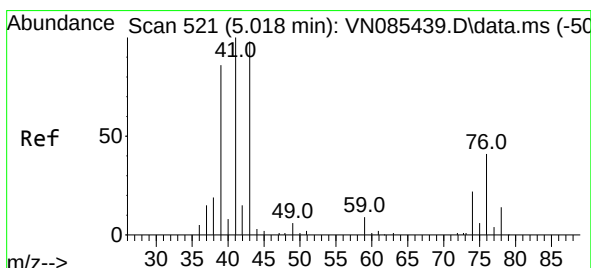
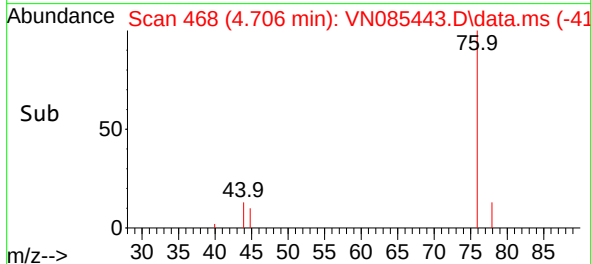
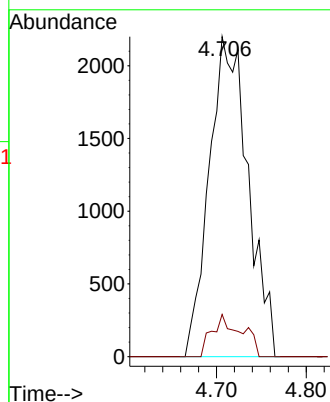
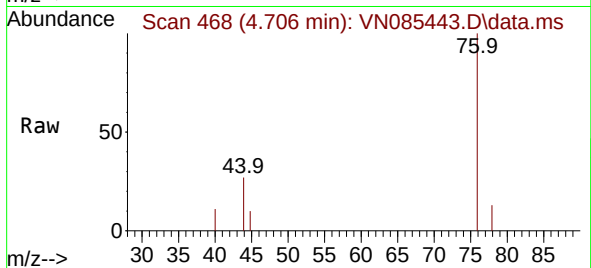




#17
Carbon Disulfide
Concen: 1.197 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

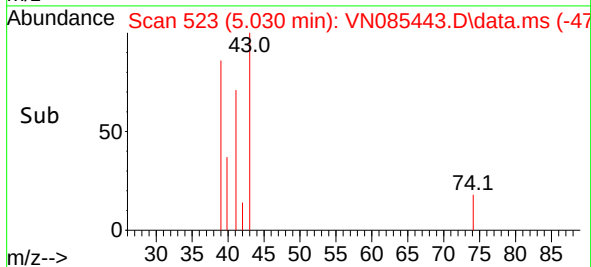
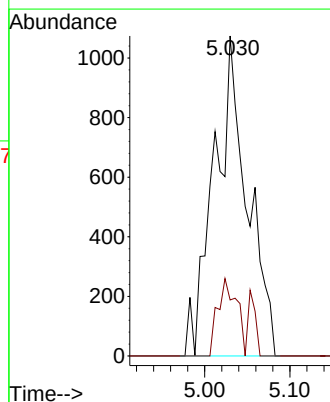
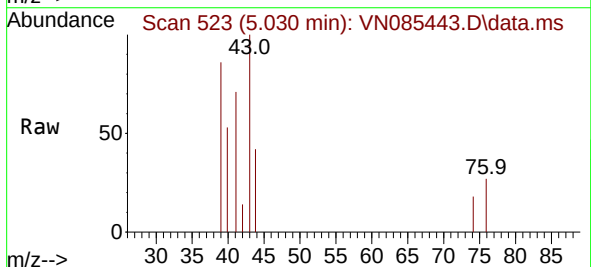
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

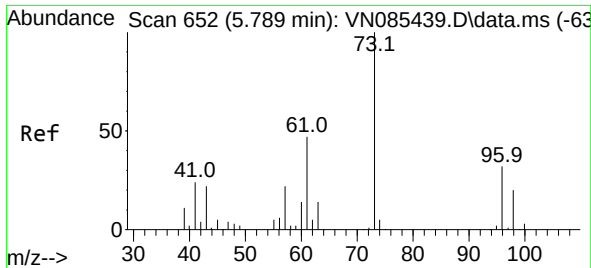
Tgt Ion: 76 Resp: 6601
Ion Ratio Lower Upper
76 100
78 13.2 6.9 10.3#



#18
Methyl Acetate
Concen: 1.099 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2908
Ion Ratio Lower Upper
43 100
74 13.8 18.6 28.0#

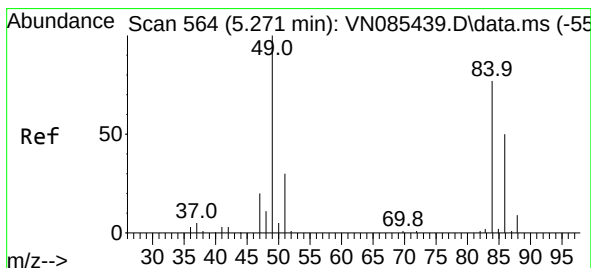
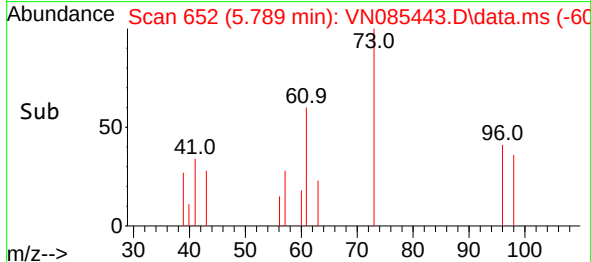
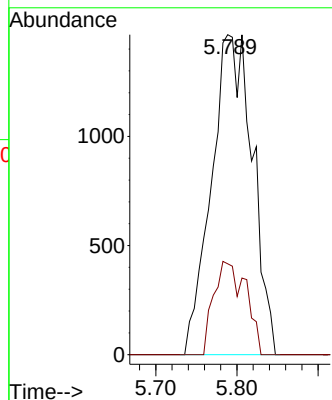
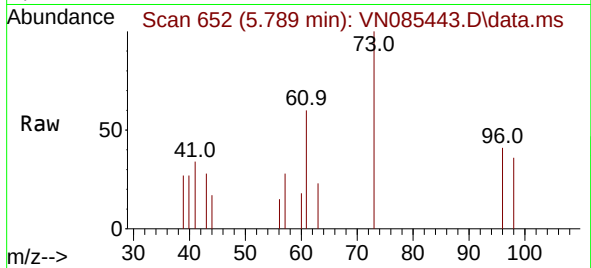




#19
Methyl tert-butyl Ether
Concen: 0.887 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

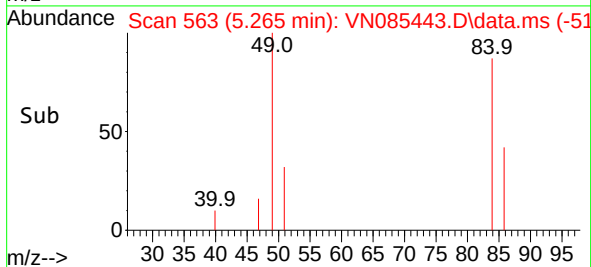
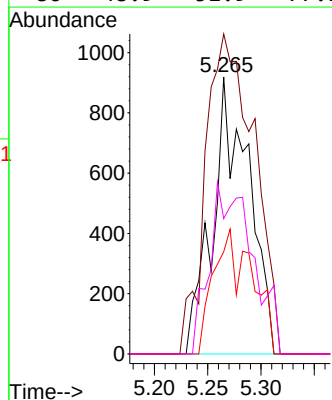
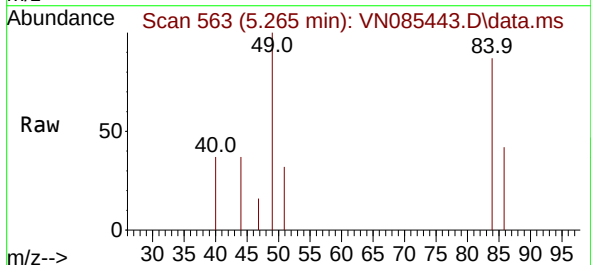
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

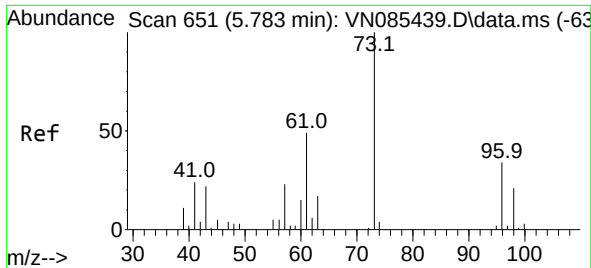
Tgt Ion: 73 Resp: 5156
Ion Ratio Lower Upper
73 100
57 28.4 17.8 26.8#



#20
Methylene Chloride
Concen: 1.016 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 84 Resp: 2190
Ion Ratio Lower Upper
84 100
49 115.6 104.1 156.1
51 36.9 31.0 46.4
86 48.9 51.9 77.9#

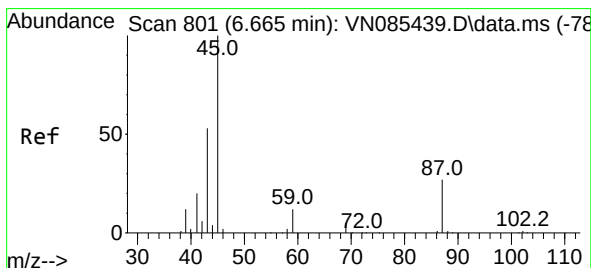
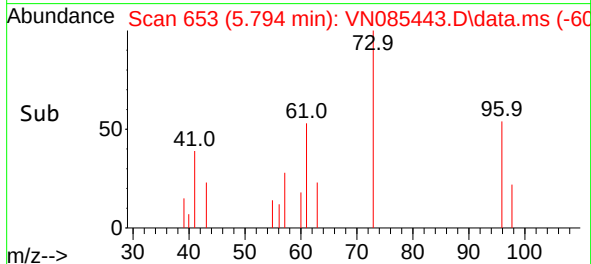
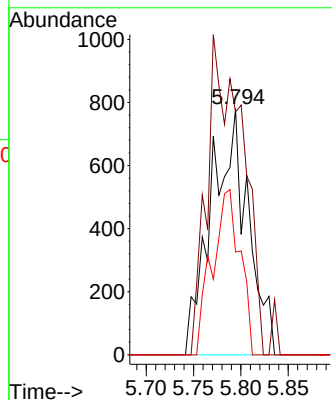
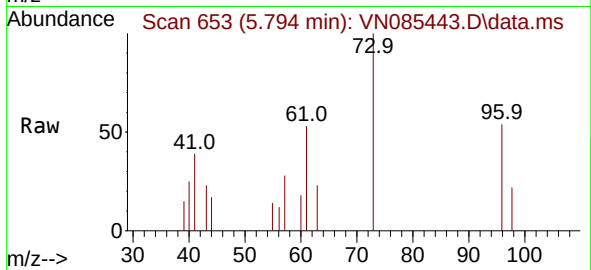




#21
trans-1,2-Dichloroethene
Concen: 1.102 ug/l
RT: 5.794 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

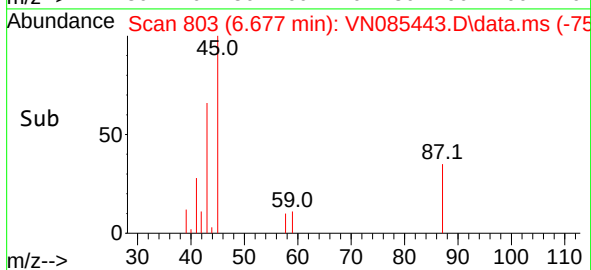
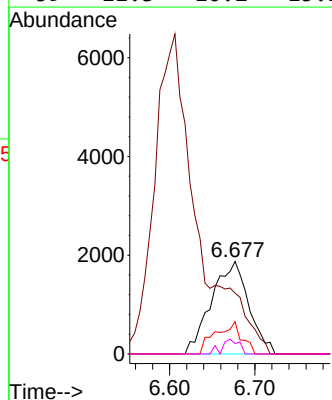
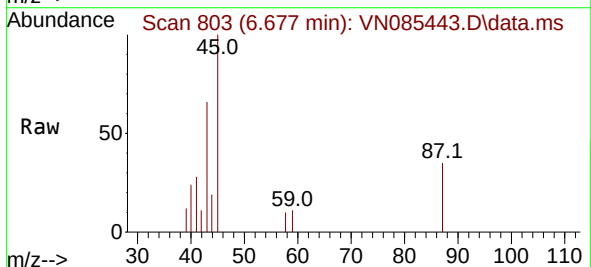
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

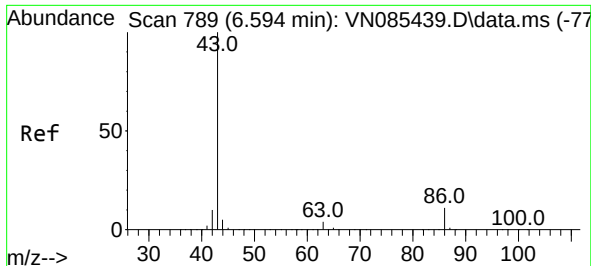
Tgt Ion: 96 Resp: 2110
Ion Ratio Lower Upper
96 100
61 98.7 115.7 173.5#
98 41.8 49.8 74.8#



#22
Diisopropyl ether
Concen: 0.882 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 45 Resp: 5691
Ion Ratio Lower Upper
45 100
43 65.9 45.0 67.6
87 35.0 21.8 32.8#
59 11.3 10.2 15.2

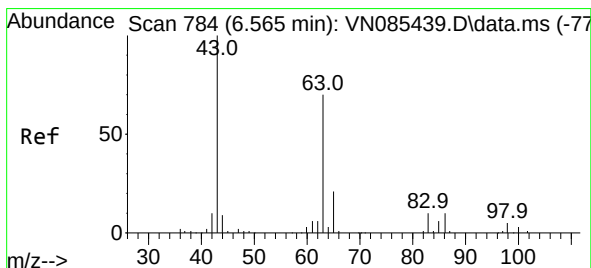
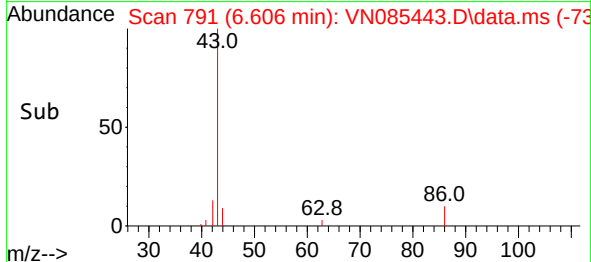
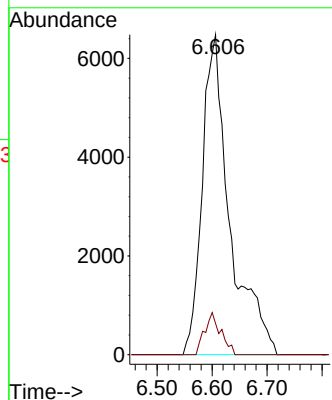
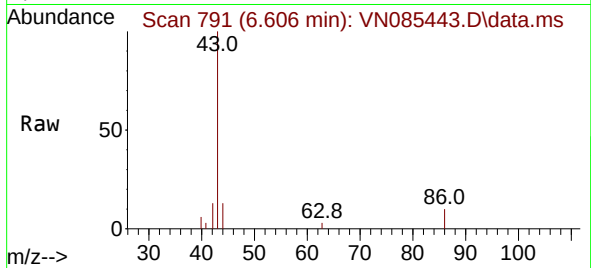




#23
 Vinyl Acetate
 Concen: 4.988 ug/l
 RT: 6.606 min Scan# 791
 Delta R.T. 0.012 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

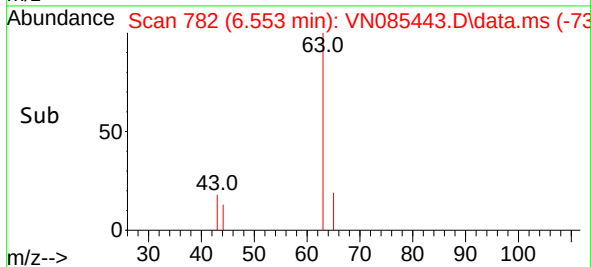
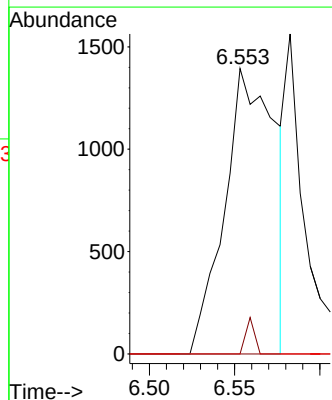
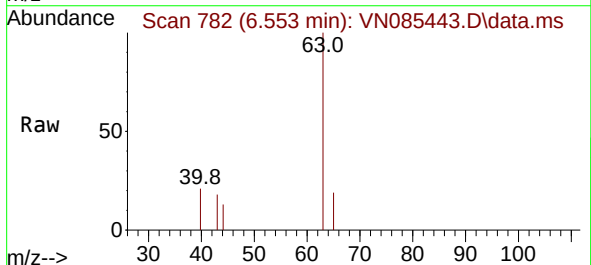
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

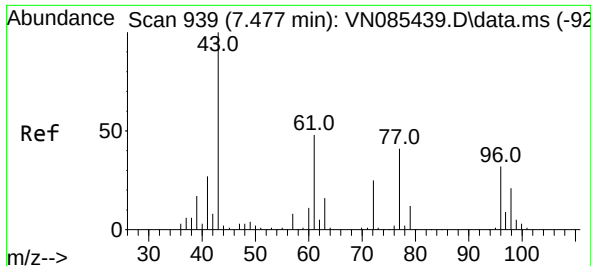
Tgt Ion: 43 Resp: 22593
 Ion Ratio Lower Upper
 43 100
 86 9.8 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 0.730 ug/l
 RT: 6.553 min Scan# 782
 Delta R.T. -0.012 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

Tgt Ion: 63 Resp: 2873
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.3 9.8#
 100 0.0 2.0 6.0#

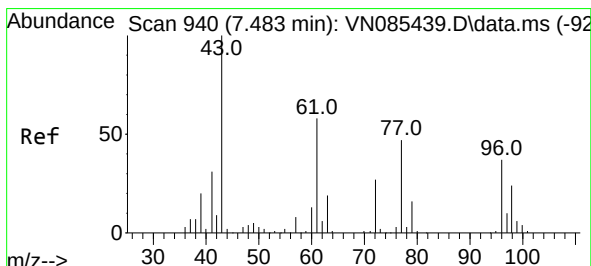
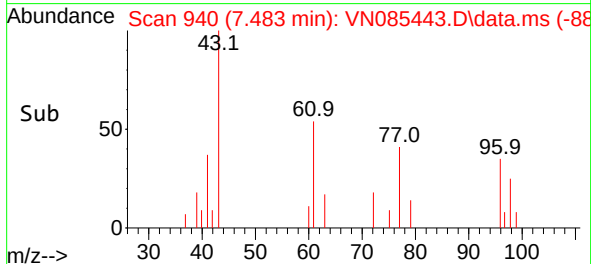
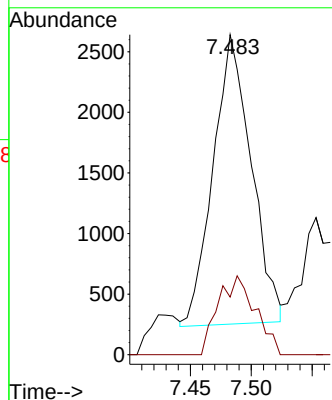
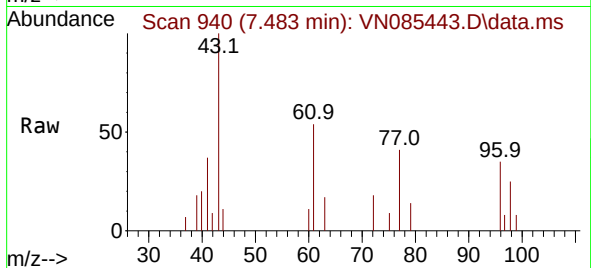




#25
2-Butanone
Concen: 4.062 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

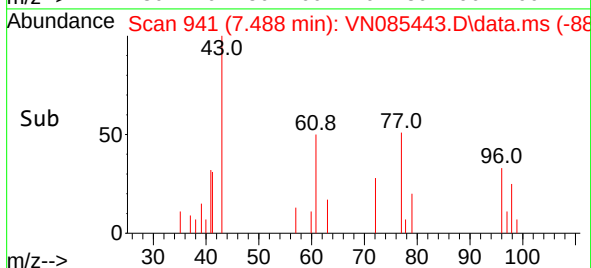
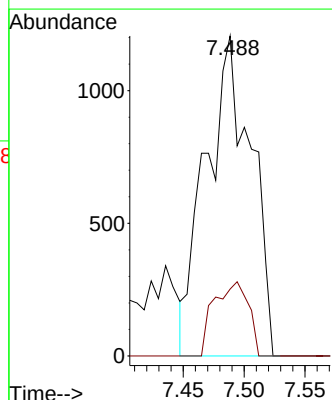
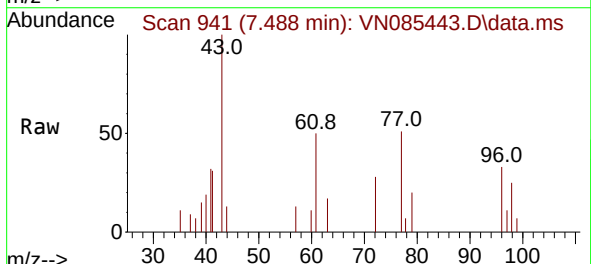
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

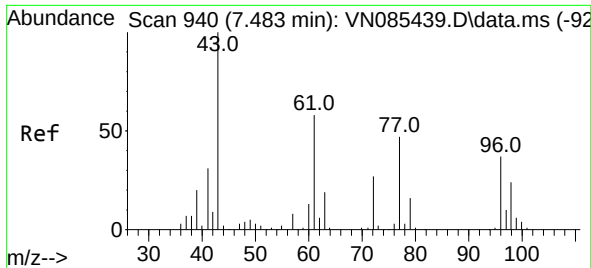
Tgt Ion: 43 Resp: 5203
Ion Ratio Lower Upper
43 100
72 20.1 20.2 30.4#



#26
2,2-Dichloropropane
Concen: 0.976 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 77 Resp: 3104
Ion Ratio Lower Upper
77 100
97 17.7 10.7 32.1

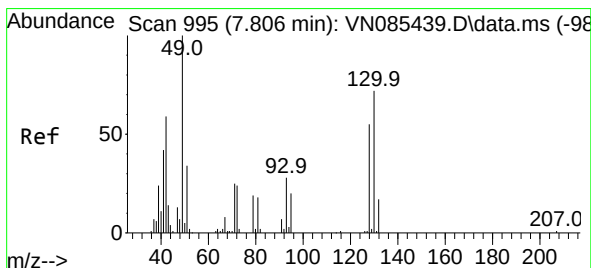
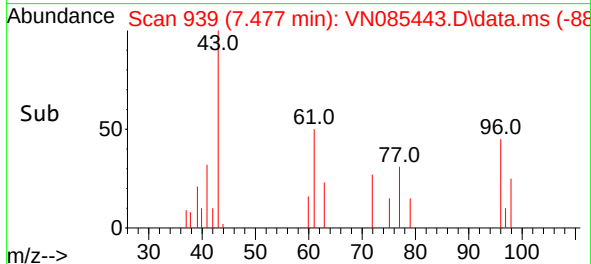
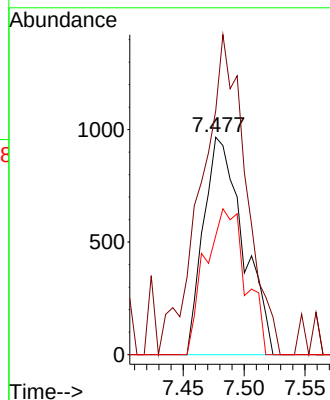
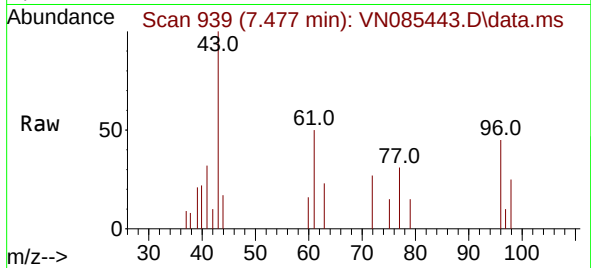




#27
 cis-1,2-Dichloroethene
 Concen: 0.969 ug/l
 RT: 7.477 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

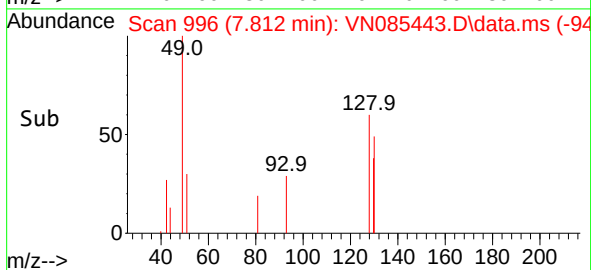
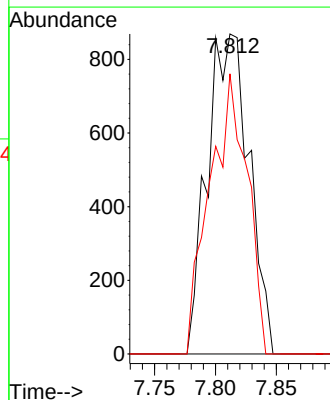
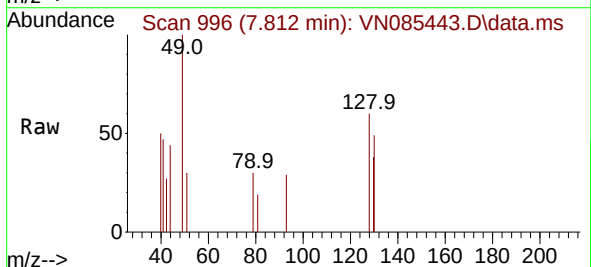
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

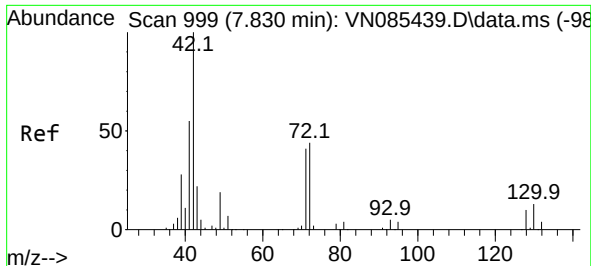
Tgt Ion: 96	Resp: 2185		
Ion	Ratio	Lower	Upper
96	100		
61	166.1	0.0	311.8
98	68.7	0.0	126.0



#28
 Bromochloromethane
 Concen: 1.138 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.006 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

Tgt Ion: 49	Resp: 2082
Ion Ratio	Lower Upper
49 100	
129 0.0	0.0 4.4
130 78.0	55.0 82.4

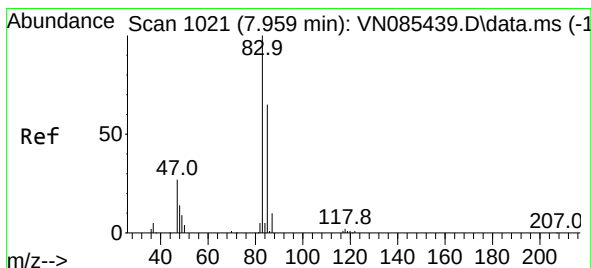
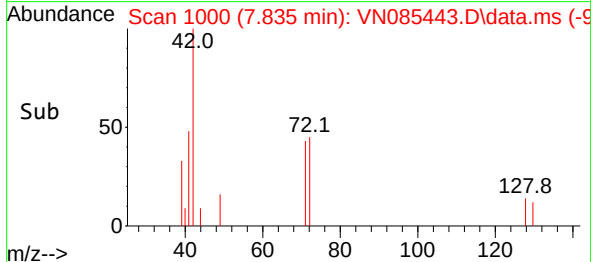
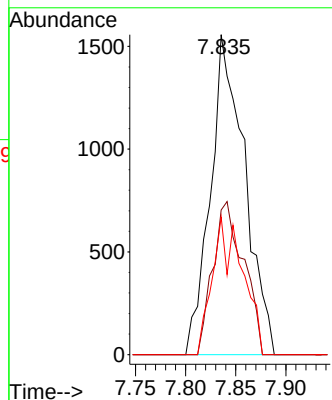
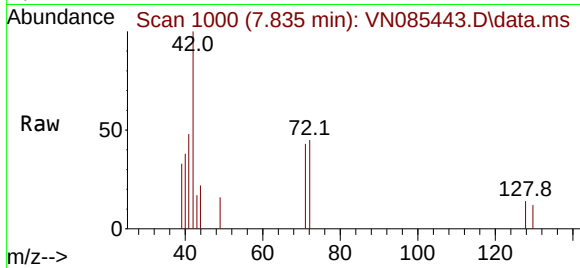




#29
Tetrahydrofuran
Concen: 4.548 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

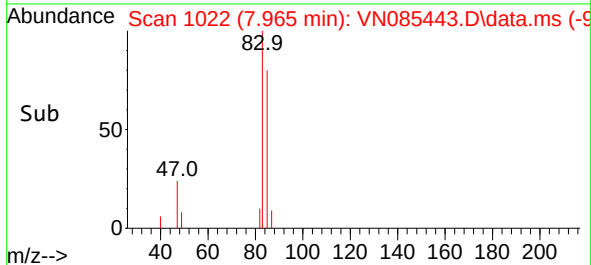
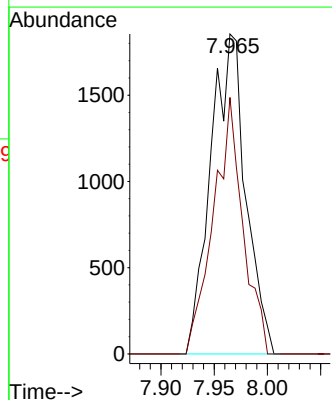
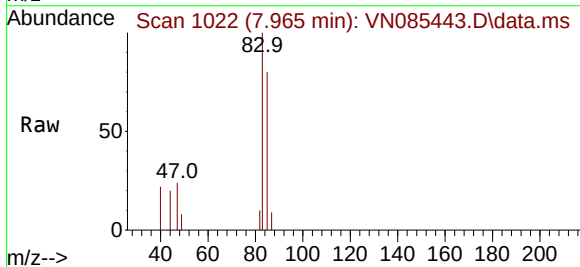
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

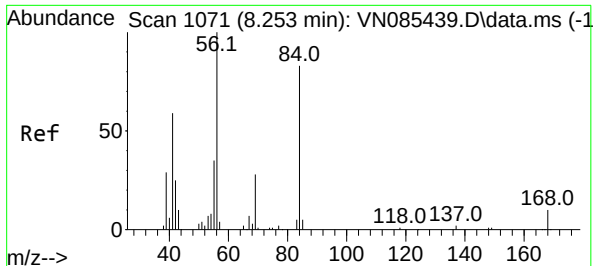
Tgt Ion: 42 Resp: 3693
Ion Ratio Lower Upper
42 100
72 43.1 34.2 51.2
71 37.9 32.5 48.7



#30
Chloroform
Concen: 1.045 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 83 Resp: 4250
Ion Ratio Lower Upper
83 100
85 80.2 51.8 77.6#





#31

Cyclohexane

Concen: 2.092 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

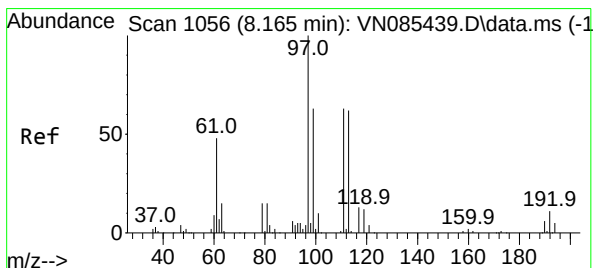
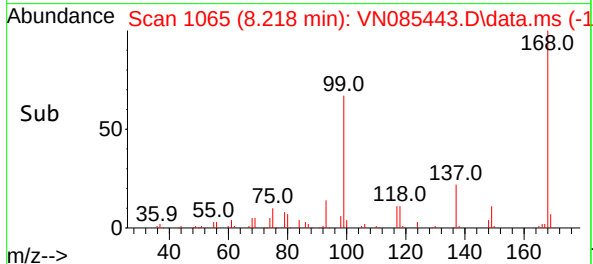
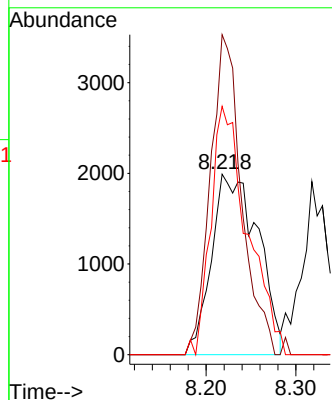
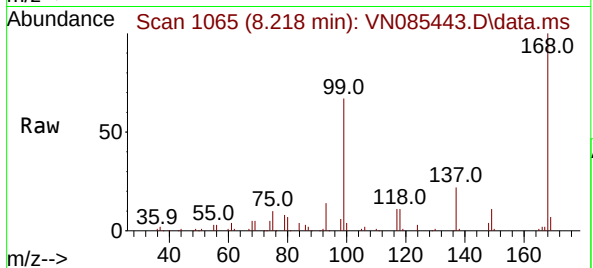
Tgt Ion: 56 Resp: 7152

Ion Ratio Lower Upper

56 100

69 177.3 22.2 33.4#

84 137.6 66.4 99.6#



#32

1,1,1-Trichloroethane

Concen: 1.031 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

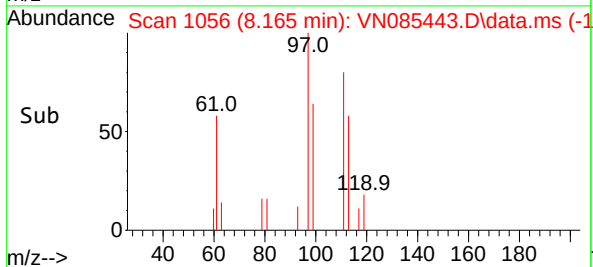
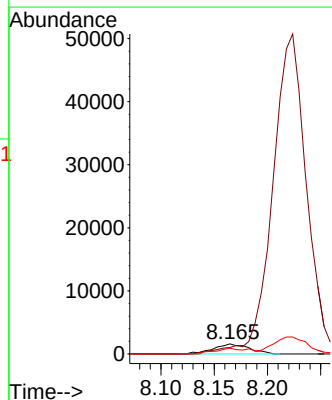
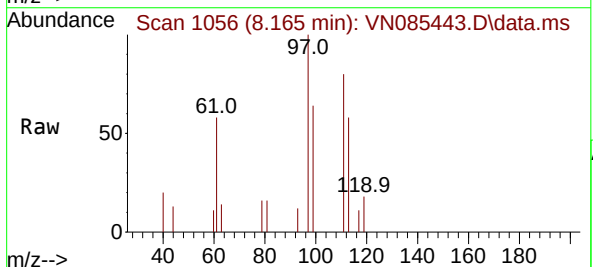
Tgt Ion: 97 Resp: 3678

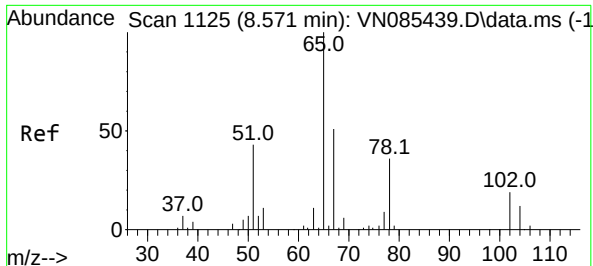
Ion Ratio Lower Upper

97 100

99 0.0 49.8 74.6#

61 52.2 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 1.215 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

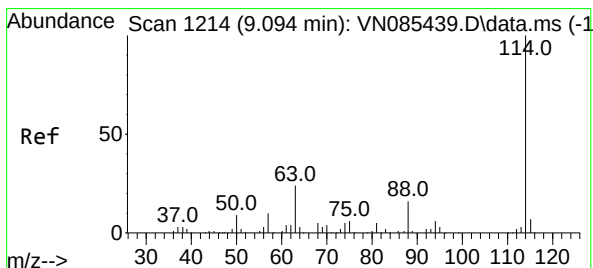
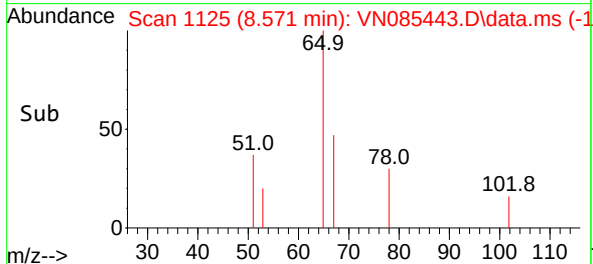
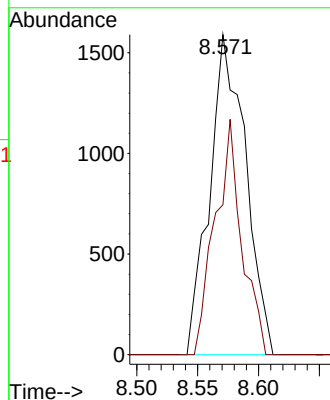
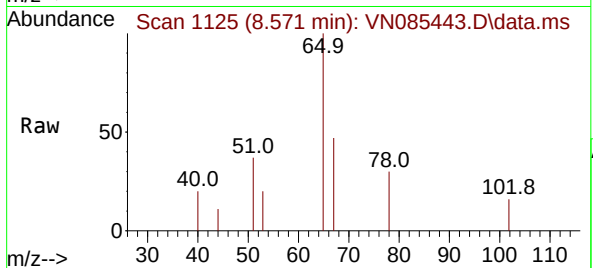
VSTDICC001

Tgt Ion: 65 Resp: 3273

Ion Ratio Lower Upper

65 100

67 54.5 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

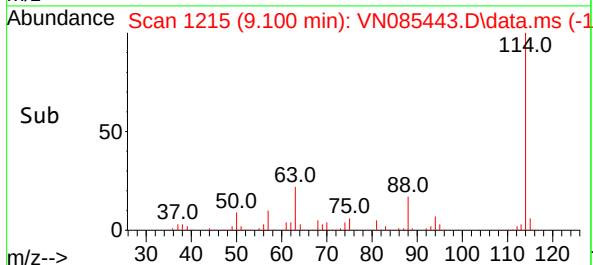
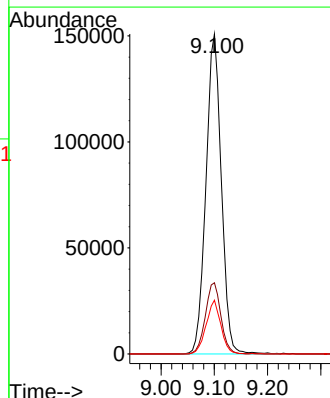
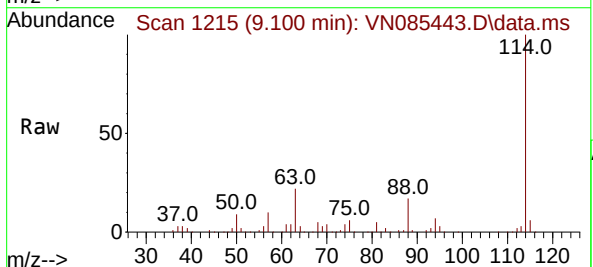
Tgt Ion: 114 Resp: 302938

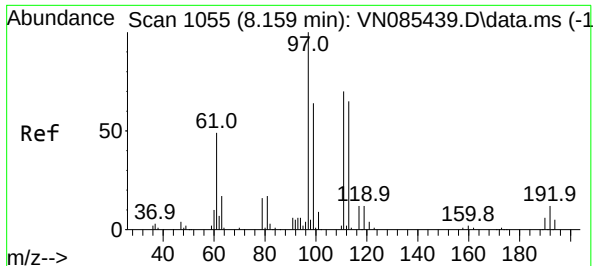
Ion Ratio Lower Upper

114 100

63 22.3 0.0 47.6

88 16.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 1.074 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

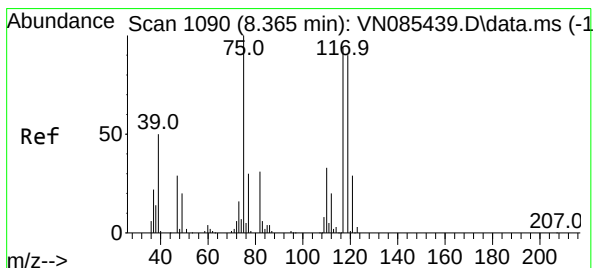
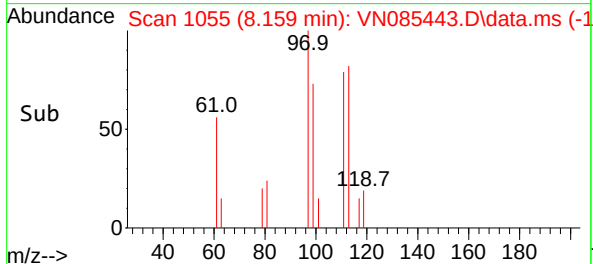
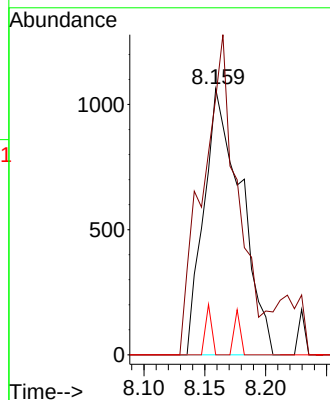
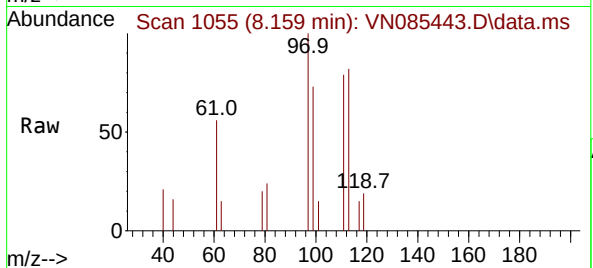
Tgt Ion:113 Resp: 2258

Ion Ratio Lower Upper

113 100

111 116.7 82.7 124.1

192 3.1 14.3 21.5#



#36

1,1-Dichloropropene

Concen: 1.046 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

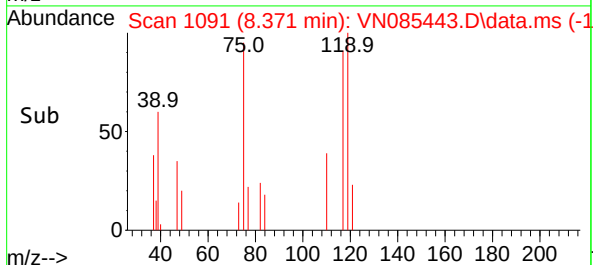
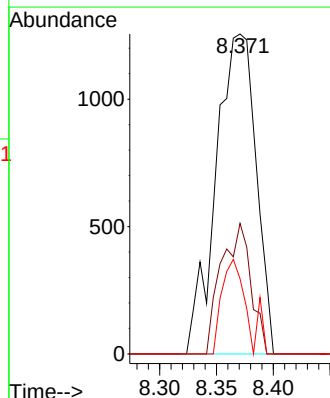
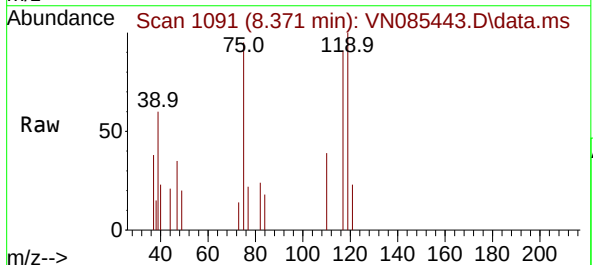
Tgt Ion: 75 Resp: 3084

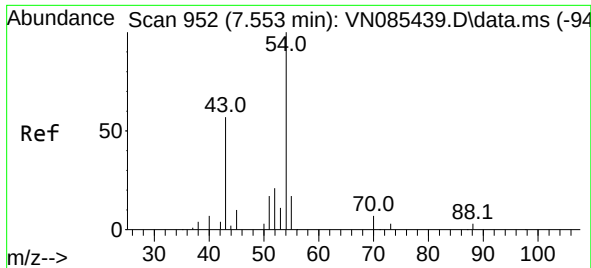
Ion Ratio Lower Upper

75 100

110 30.1 16.5 49.5

77 15.9 24.4 36.6#

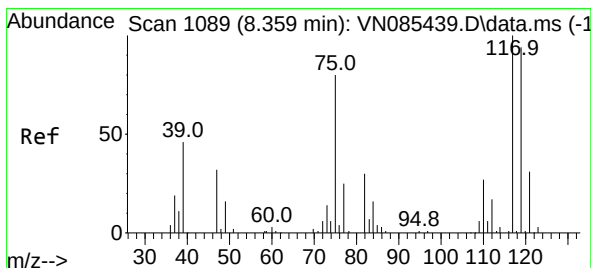
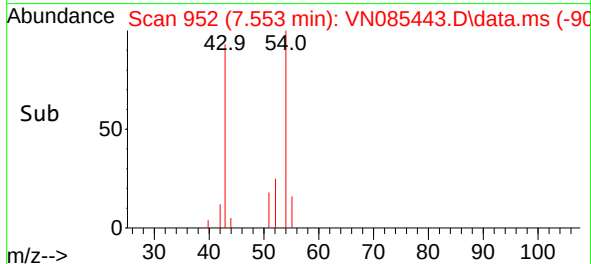
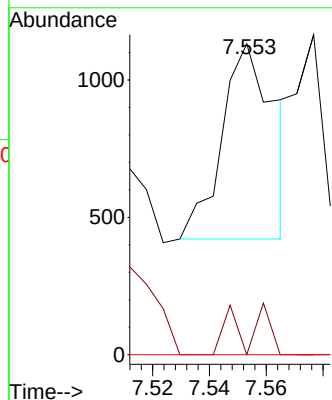
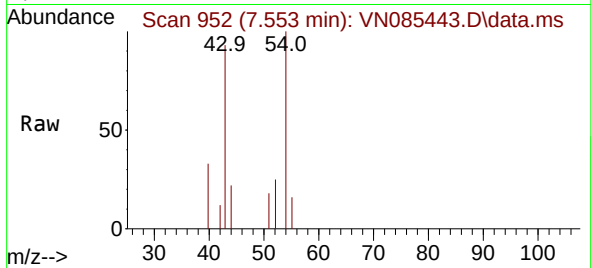




#37
Ethyl Acetate
Concen: 0.306 ug/l
RT: 7.553 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

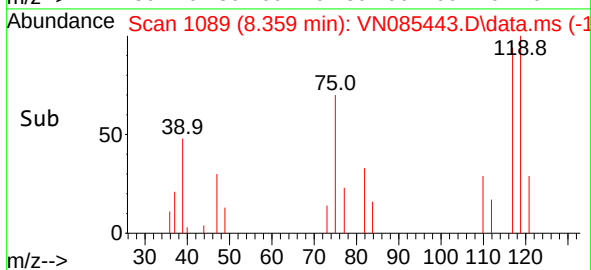
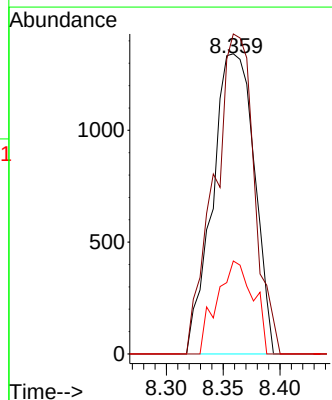
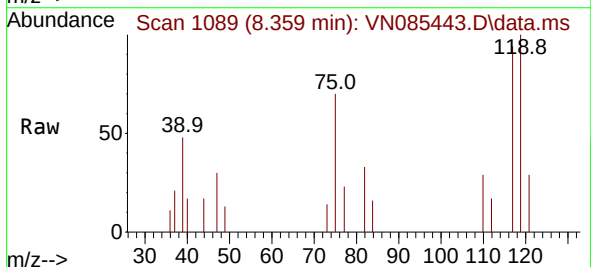
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

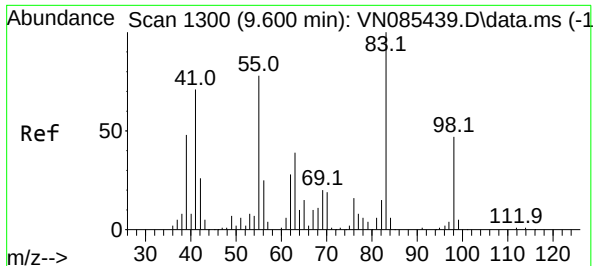
Tgt Ion: 43 Resp: 911
Ion Ratio Lower Upper
43 100
61 14.3 10.9 16.3
70 0.0 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 1.018 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 117 Resp: 3436
Ion Ratio Lower Upper
117 100
119 106.6 75.4 113.2
121 31.0 24.6 37.0





#39

Methylcyclohexane

Concen: 0.867 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

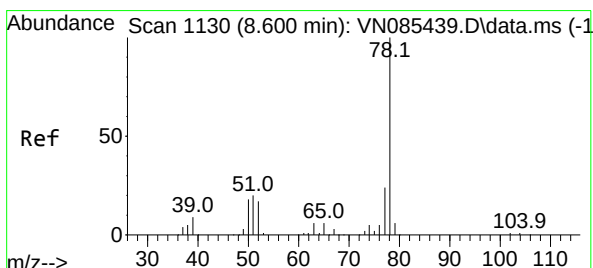
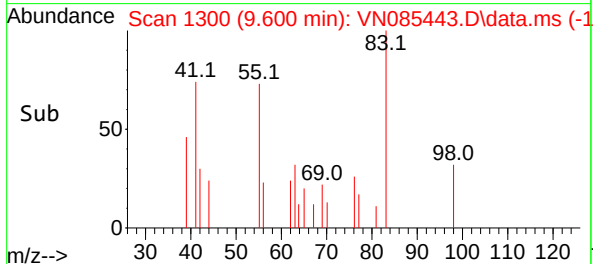
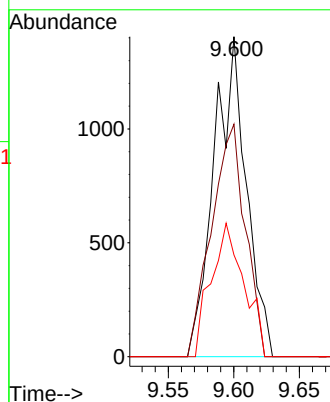
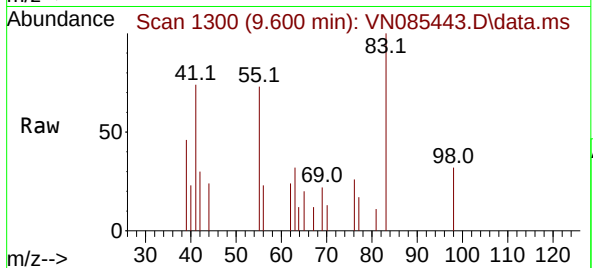
Tgt Ion: 83 Resp: 2403

Ion Ratio Lower Upper

83 100

55 72.7 62.6 94.0

98 31.8 37.7 56.5#



#40

Benzene

Concen: 0.957 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085443.D

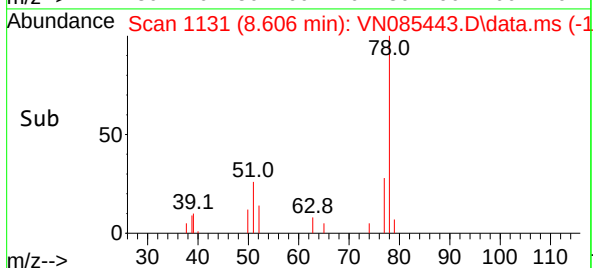
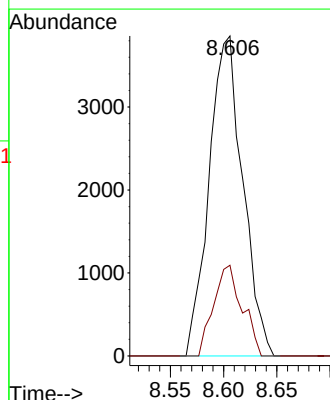
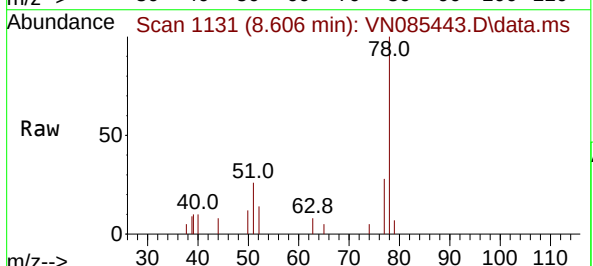
Acq: 14 Jan 2025 17:19

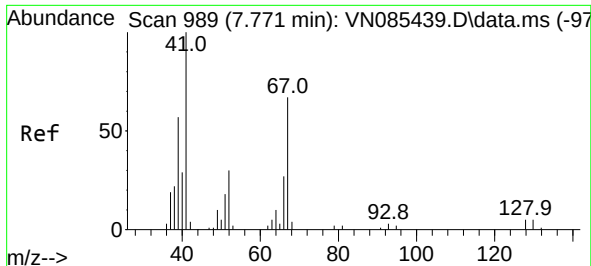
Tgt Ion: 78 Resp: 8480

Ion Ratio Lower Upper

78 100

77 28.3 19.0 28.6

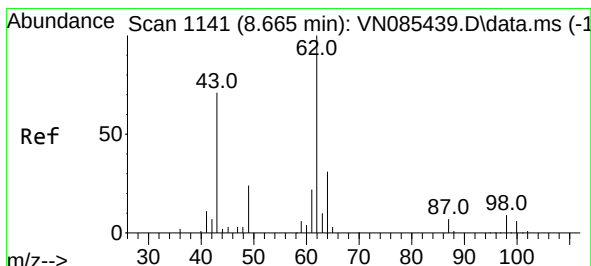
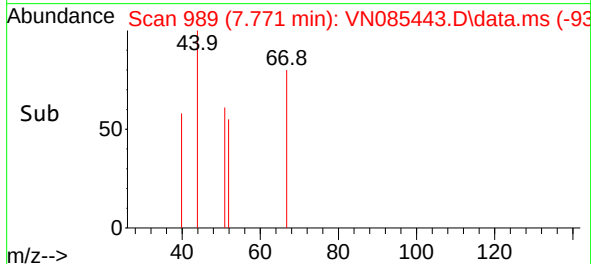
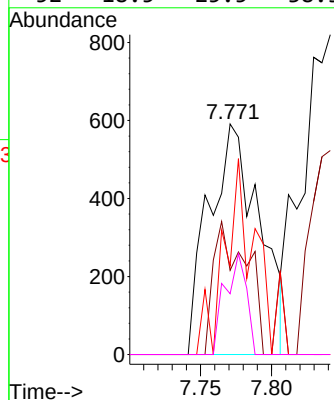
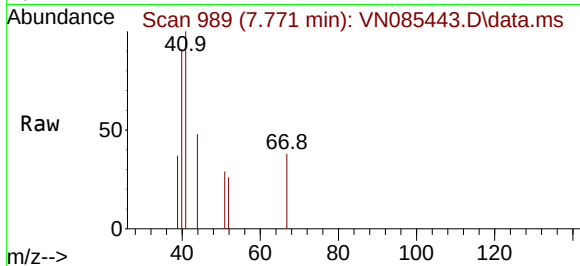




#41
Methacrylonitrile
Concen: 0.941 ug/l
RT: 7.771 min Scan# 989
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

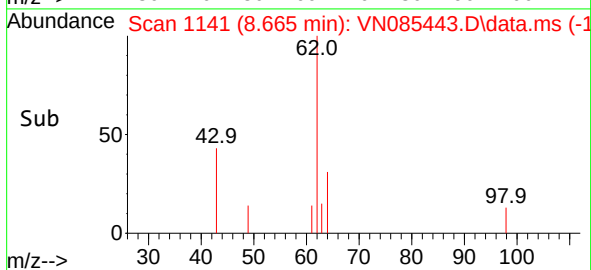
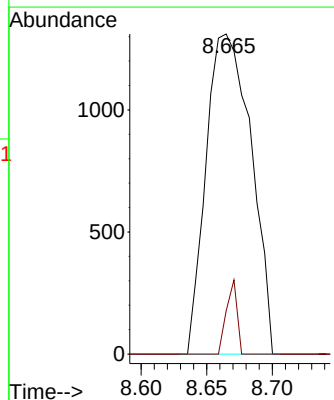
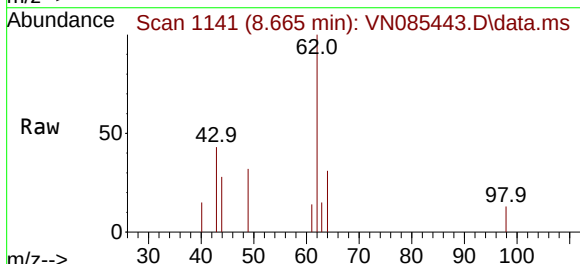
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

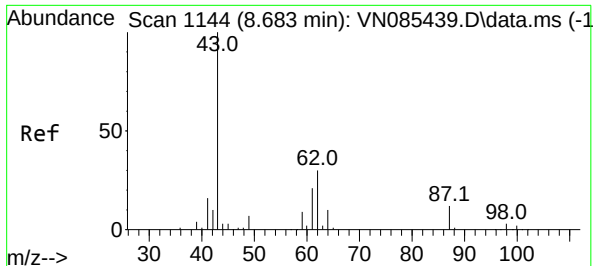
Tgt Ion: 41	Resp: 1458
Ion Ratio	Lower Upper
41 100	
39 37.6	46.0 69.0#
67 53.8	57.4 86.2#
52 18.5	25.5 38.3#



#42
1,2-Dichloroethane
Concen: 0.938 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 62	Resp: 3131
Ion Ratio	Lower Upper
62 100	
98 5.4	0.0 17.0

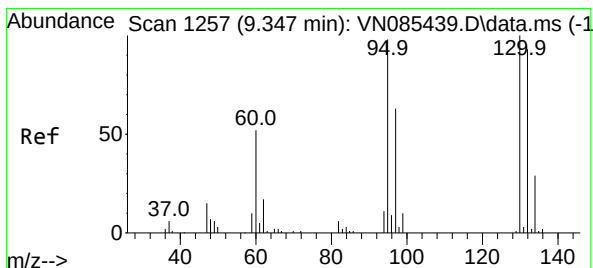
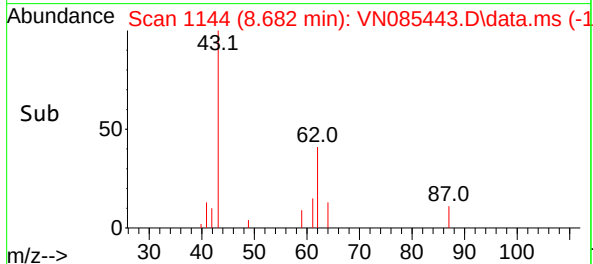
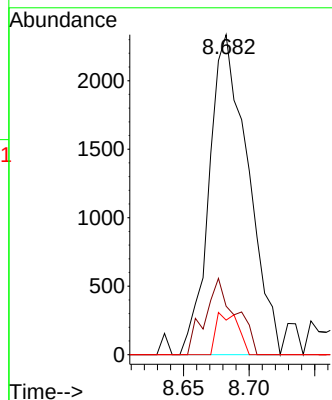
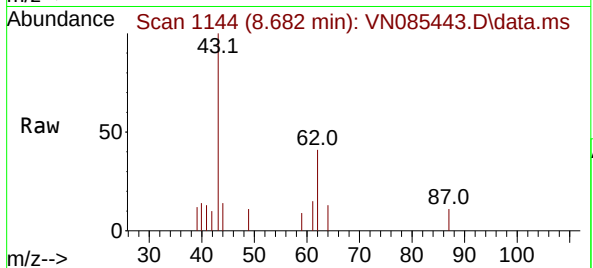




#43
Isopropyl Acetate
Concen: 1.007 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

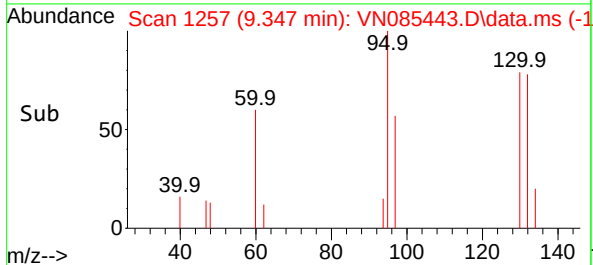
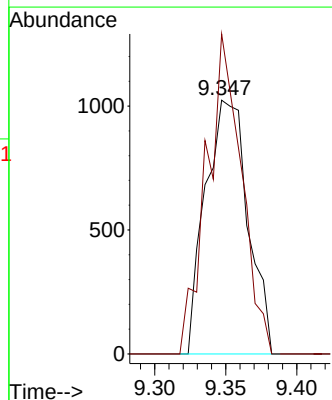
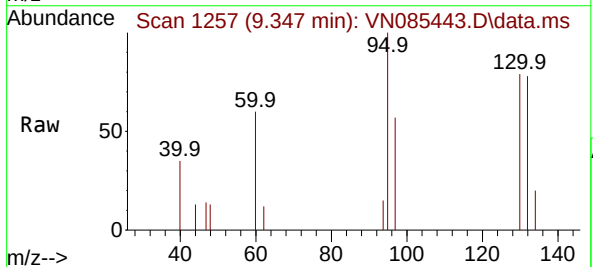
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

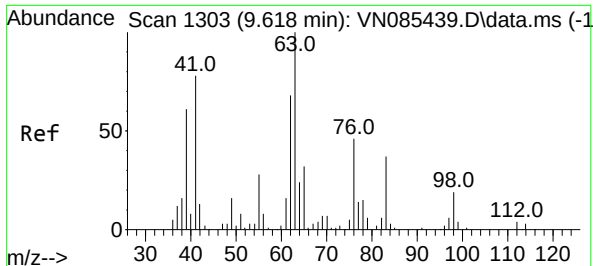
Tgt Ion: 43 Resp: 4803
Ion Ratio Lower Upper
43 100
61 18.9 20.7 31.1#
87 7.3 9.8 14.8#



#44
Trichloroethene
Concen: 1.034 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:130 Resp: 2133
Ion Ratio Lower Upper
130 100
95 126.1 0.0 195.8





#45

1,2-Dichloropropane

Concen: 0.992 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

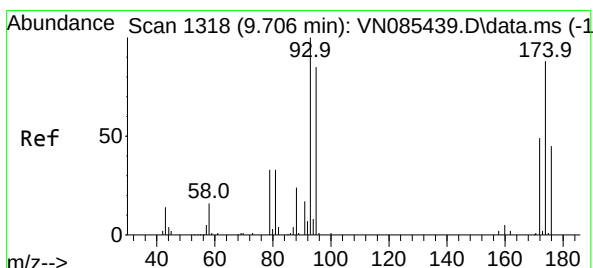
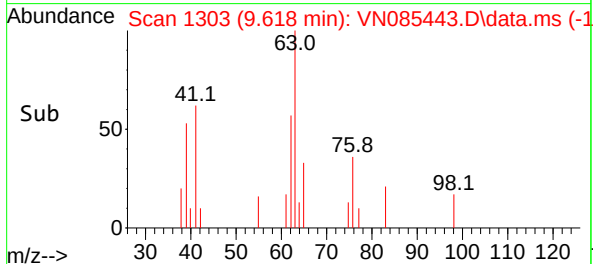
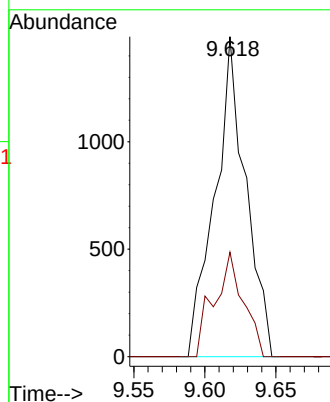
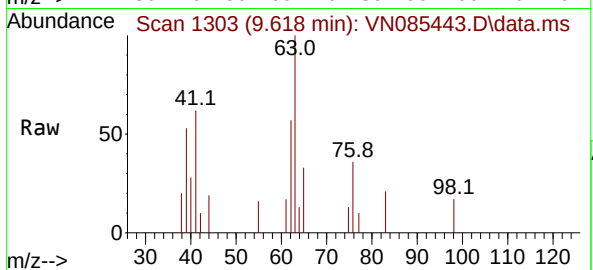
VSTDIC001

Tgt Ion: 63 Resp: 2246

Ion Ratio Lower Upper

63 100

65 32.6 25.6 38.4



#46

Dibromomethane

Concen: 1.083 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

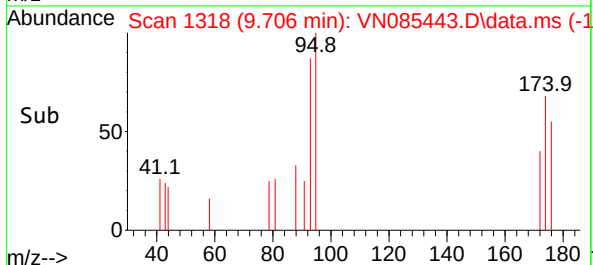
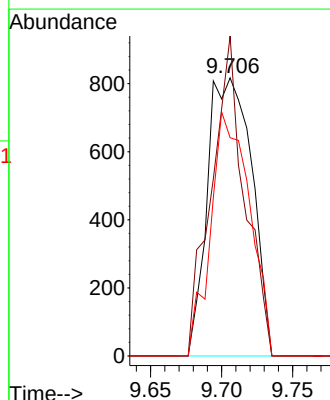
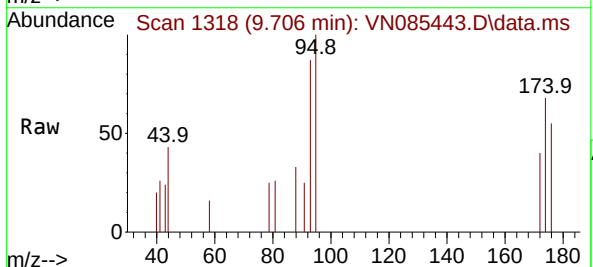
Tgt Ion: 93 Resp: 1769

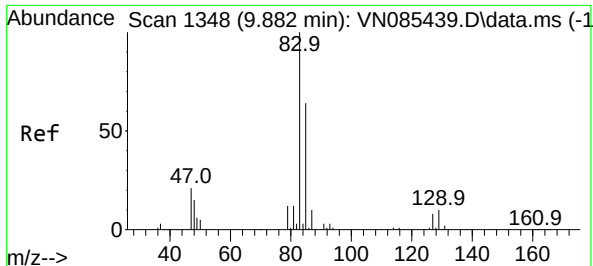
Ion Ratio Lower Upper

93 100

95 86.5 64.7 97.1

174 77.4 69.0 103.4

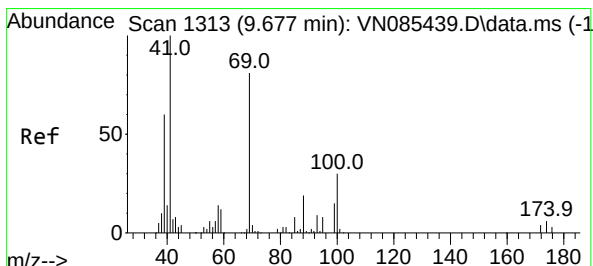
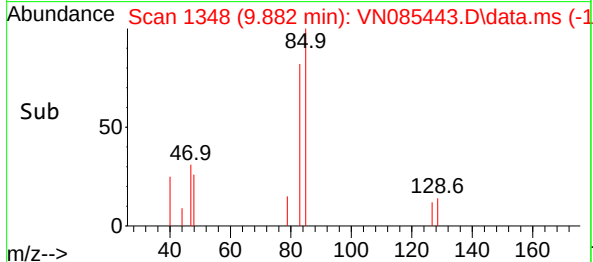
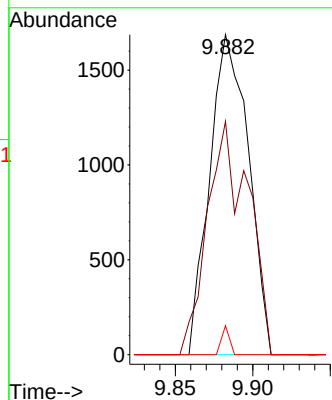
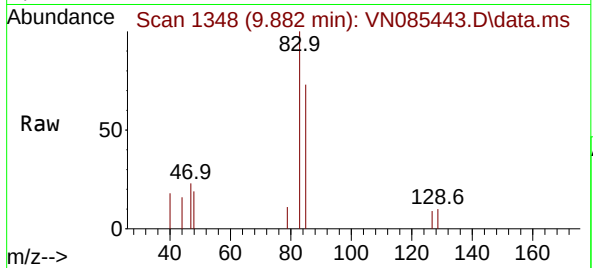




#47
Bromodichloromethane
Concen: 0.882 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

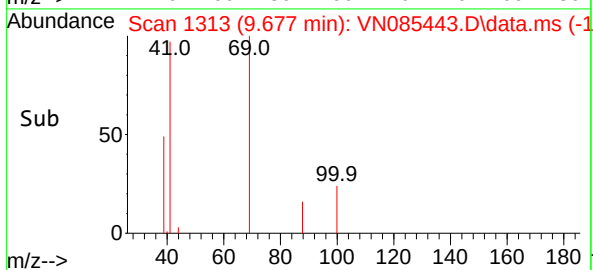
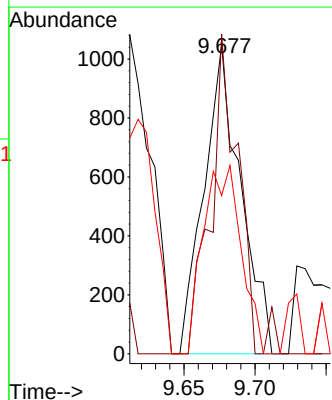
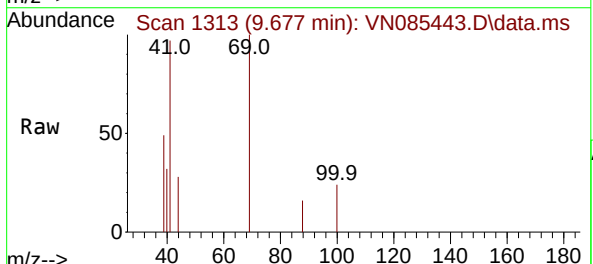
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

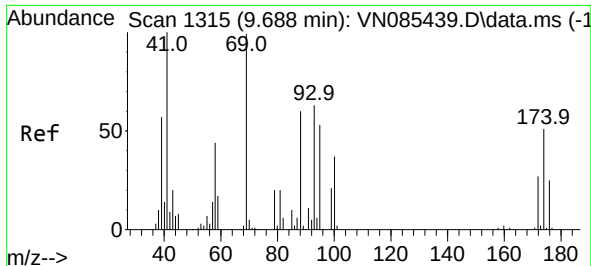
Tgt Ion:	83	Resp:	2935
Ion	Ratio	Lower	Upper
83	100		
85	72.9	51.2	76.8
127	9.0	6.5	9.7



#48
Methyl methacrylate
Concen: 0.878 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:	41	Resp:	1886
Ion	Ratio	Lower	Upper
41	100		
69	76.2	64.7	97.1
39	62.8	49.0	73.6





#49

1,4-Dioxane

Concen: 18.616 ug/l

RT: 9.688 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

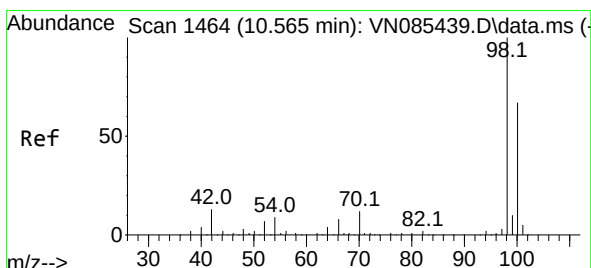
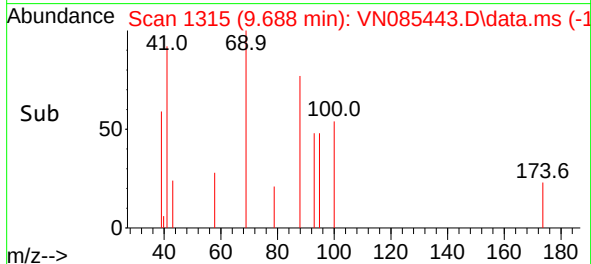
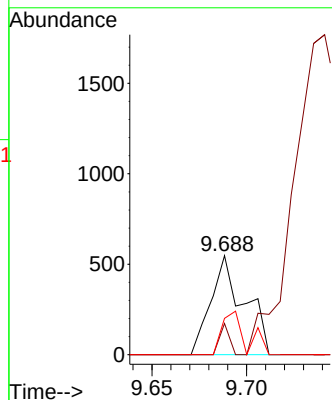
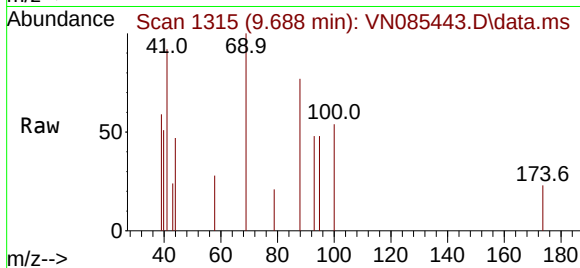
Tgt Ion: 88 Resp: 673

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 31.1 59.5 89.3#



#50

Toluene-d8

Concen: 0.959 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085443.D

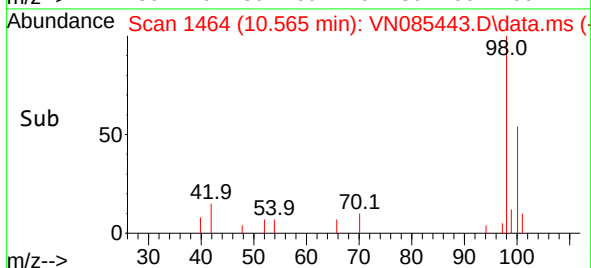
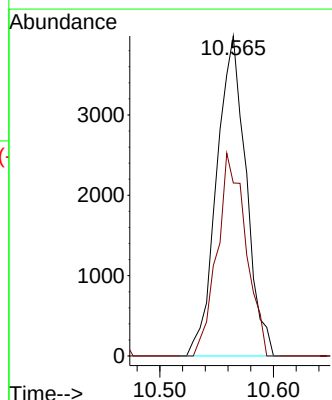
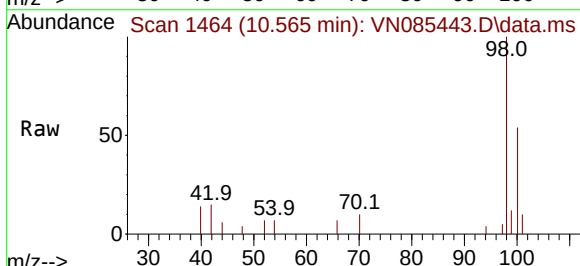
Acq: 14 Jan 2025 17:19

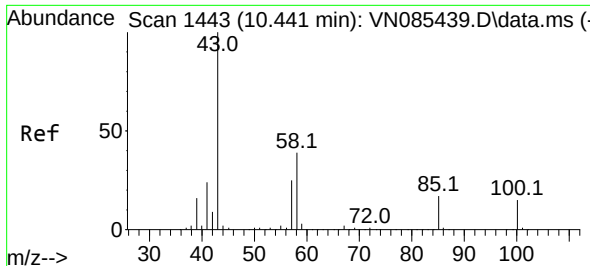
Tgt Ion: 98 Resp: 7164

Ion Ratio Lower Upper

98 100

100 61.9 52.2 78.4

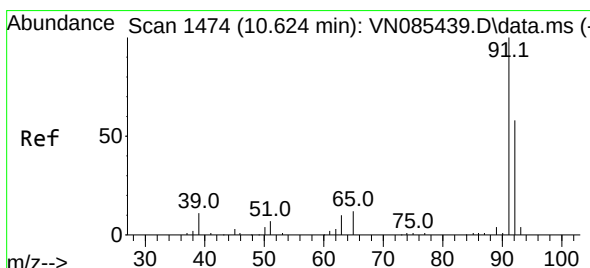
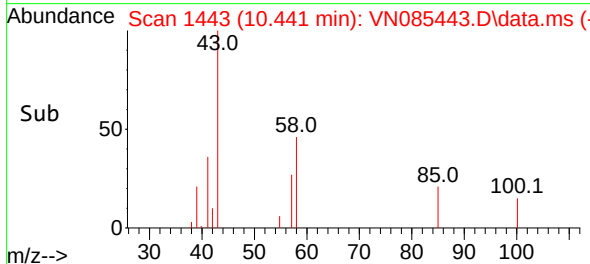
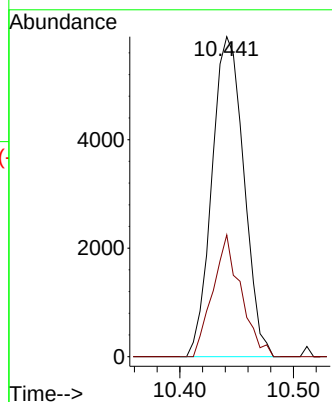
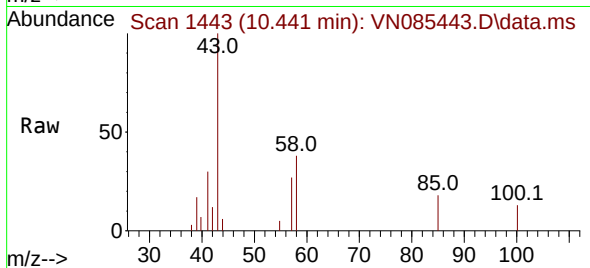




#51
4-Methyl-2-Pentanone
Concen: 4.163 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

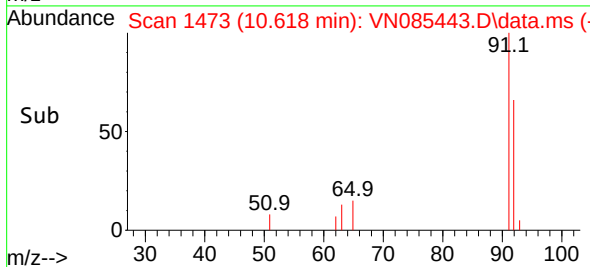
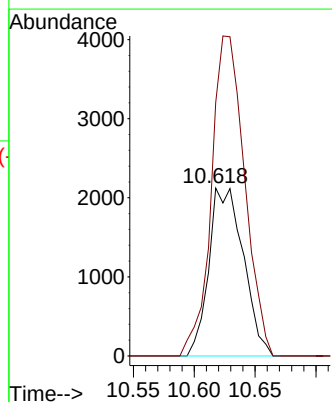
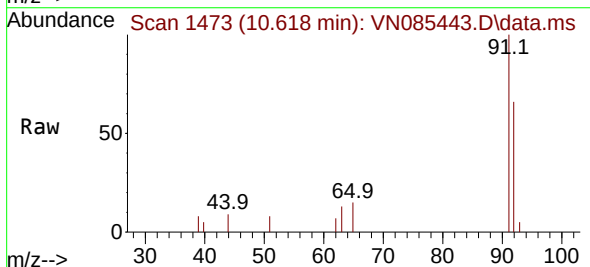
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

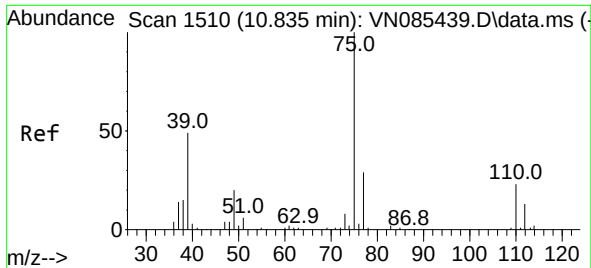
Tgt Ion: 43 Resp: 11523
Ion Ratio Lower Upper
43 100
58 33.6 30.5 45.7



#52
Toluene
Concen: 0.814 ug/l
RT: 10.618 min Scan# 1473
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 92 Resp: 4180
Ion Ratio Lower Upper
92 100
91 183.9 139.2 208.8

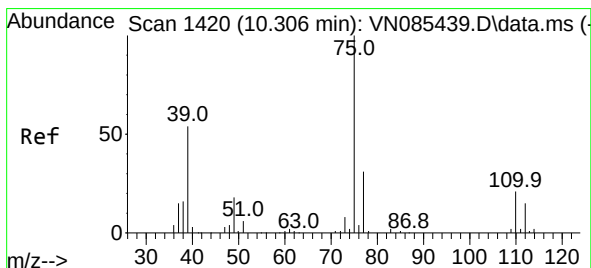
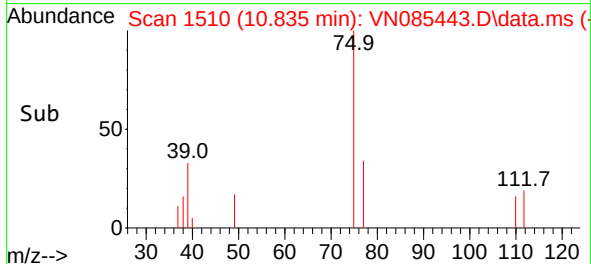
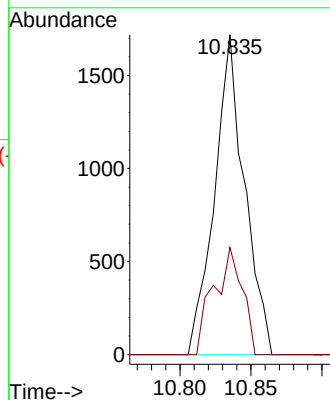
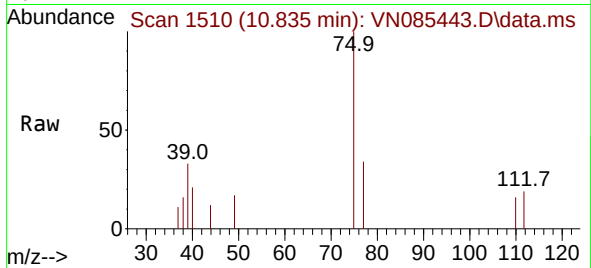




#53
 t-1,3-Dichloropropene
 Concen: 0.802 ug/l
 RT: 10.835 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

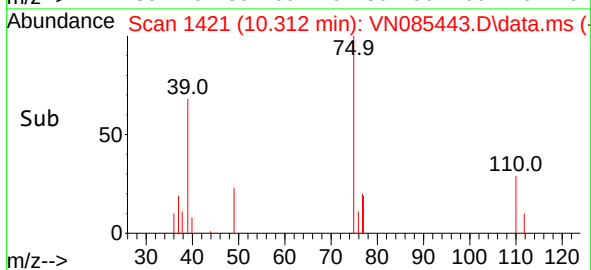
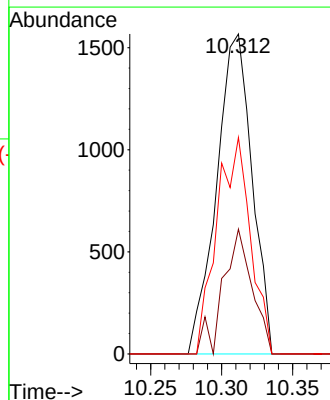
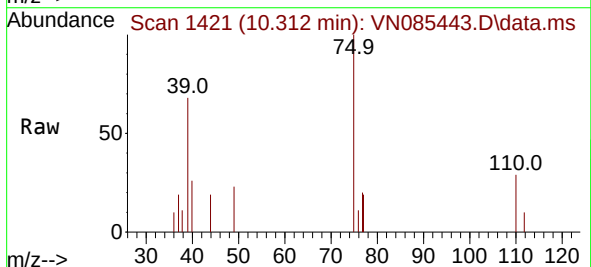
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

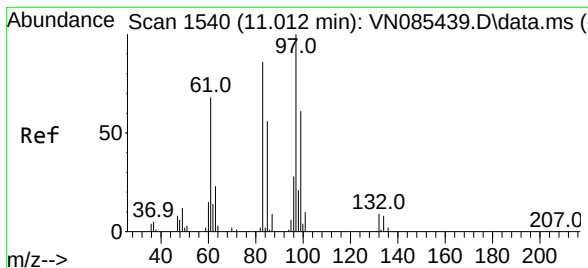
Tgt Ion: 75 Resp: 2522
 Ion Ratio Lower Upper
 75 100
 77 33.5 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 0.811 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.006 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 2725
 Ion Ratio Lower Upper
 75 100
 77 39.0 25.0 37.4#
 39 67.6 43.1 64.7#





#55

1,1,2-Trichloroethane

Concen: 0.935 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 1901

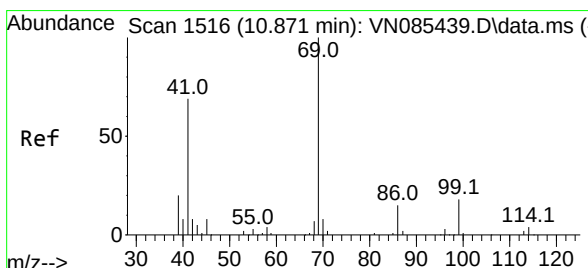
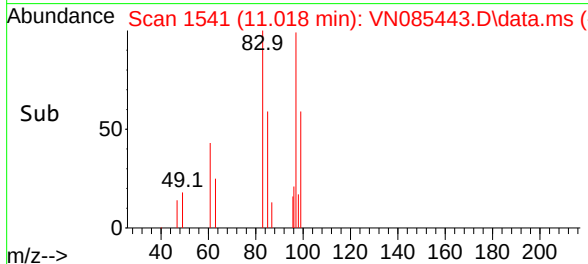
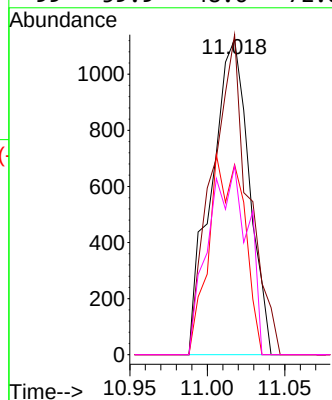
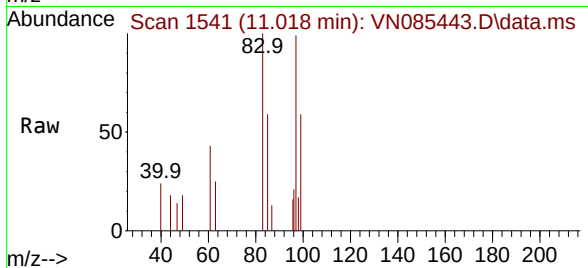
Ion Ratio Lower Upper

97 100

83 101.5 69.0 103.6

85 60.3 44.6 66.8

99 59.9 48.6 72.8



#56

Ethyl methacrylate

Concen: 2.471 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

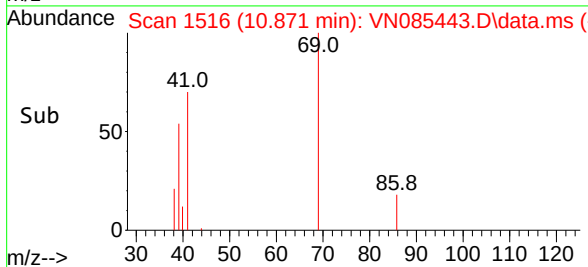
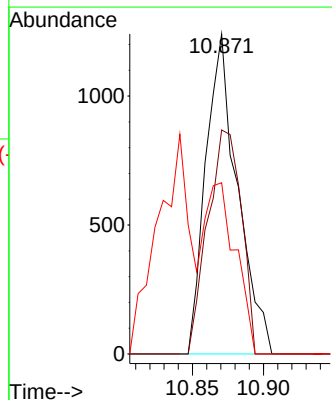
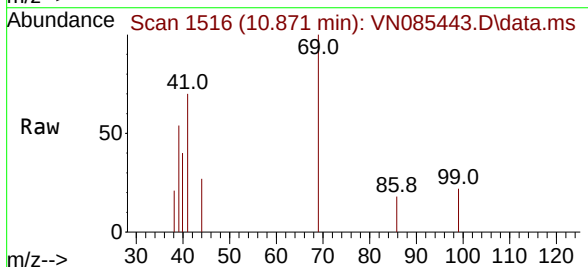
Tgt Ion: 69 Resp: 1923

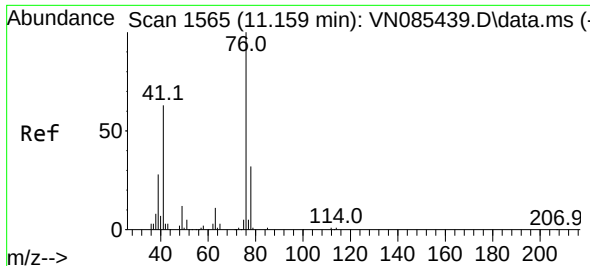
Ion Ratio Lower Upper

69 100

41 74.4 54.6 82.0

39 52.4 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 0.881 ug/l

RT: 11.165 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

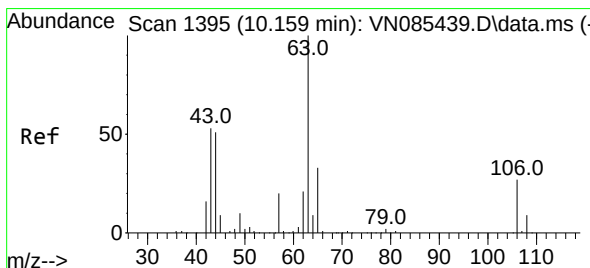
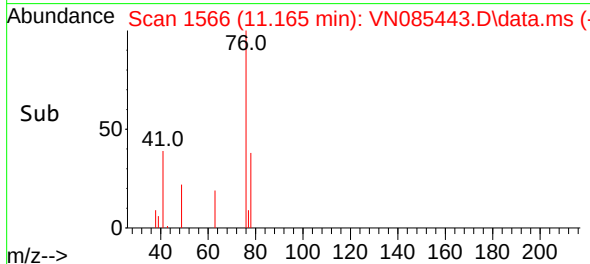
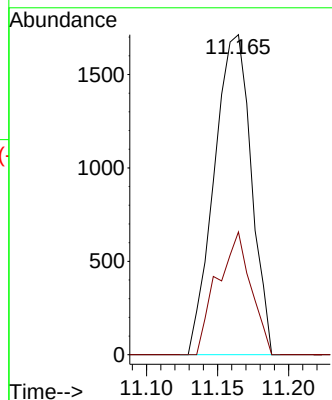
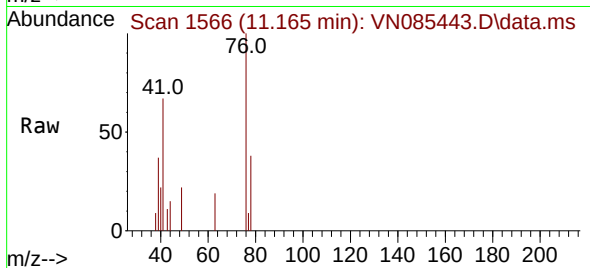
VSTDICC001

Tgt Ion: 76 Resp: 3113

Ion Ratio Lower Upper

76 100

78 34.9 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 3.822 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN085443.D

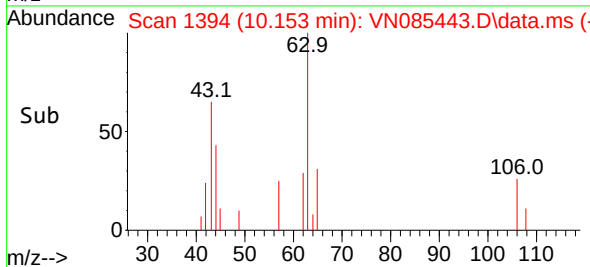
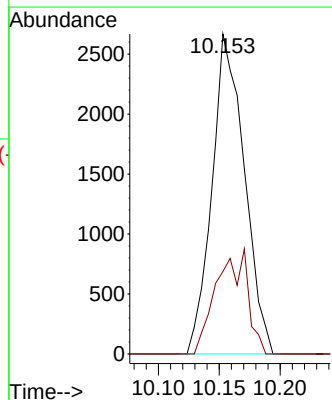
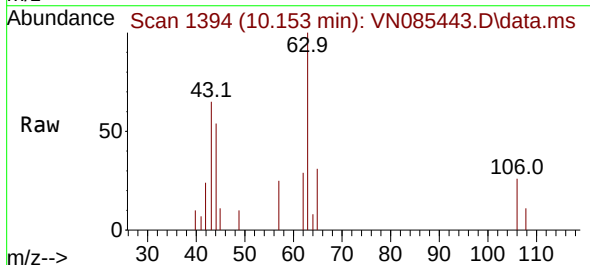
Acq: 14 Jan 2025 17:19

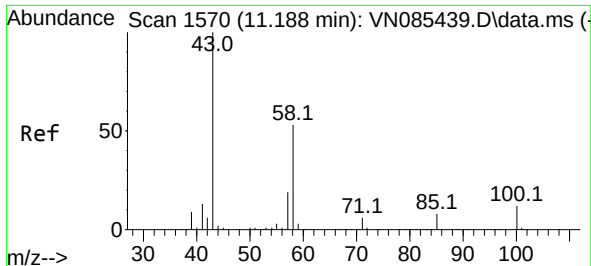
Tgt Ion: 63 Resp: 4929

Ion Ratio Lower Upper

63 100

106 31.7 21.6 32.4





#59

2-Hexanone

Concen: 4.058 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

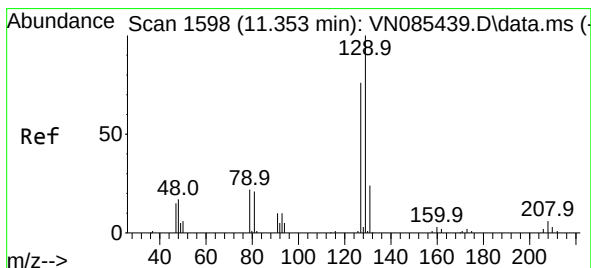
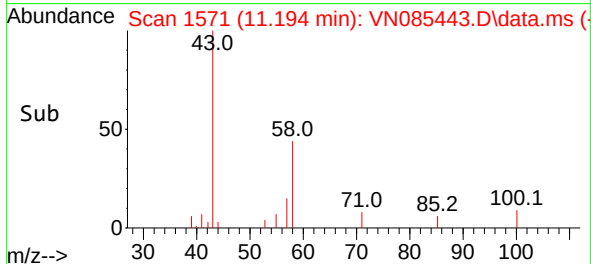
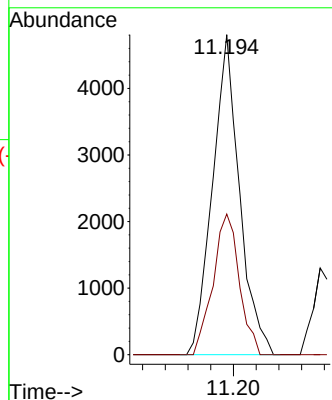
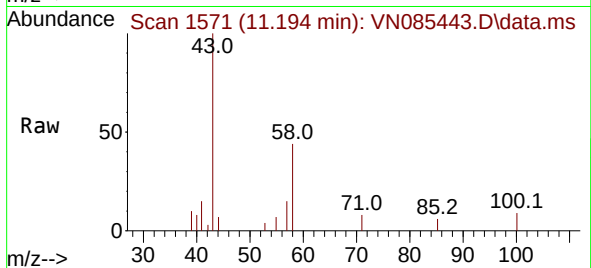
VSTDIC001

Tgt Ion: 43 Resp: 7905

Ion Ratio Lower Upper

43 100

58 42.9 26.2 78.6



#60

Dibromochloromethane

Concen: 0.953 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085443.D

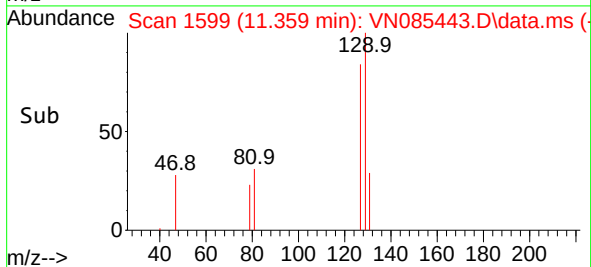
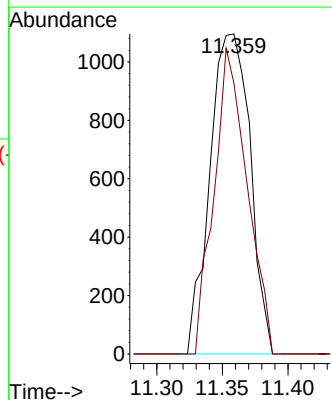
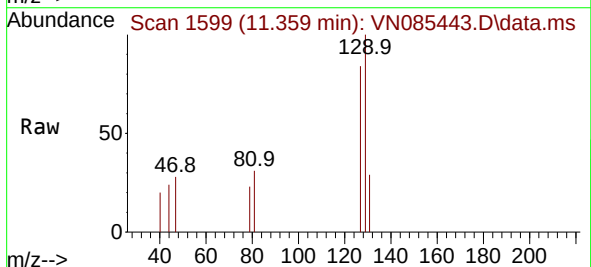
Acq: 14 Jan 2025 17:19

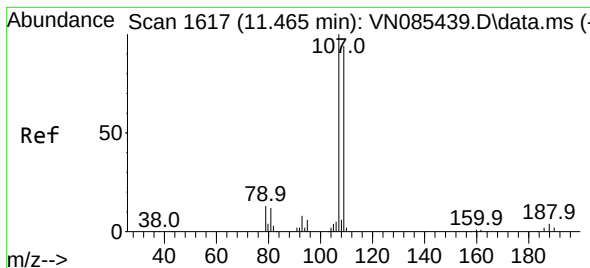
Tgt Ion: 129 Resp: 2339

Ion Ratio Lower Upper

129 100

127 78.9 38.6 115.8

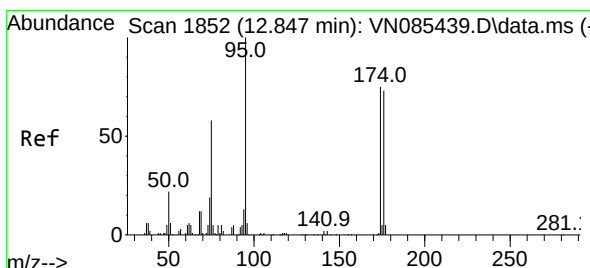
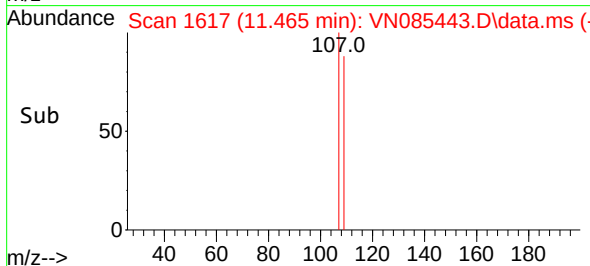
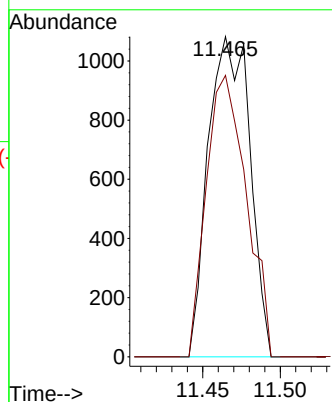
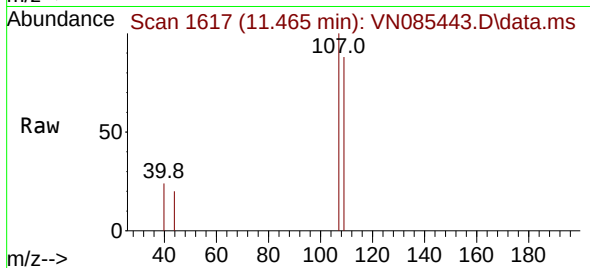




#61
1,2-Dibromoethane
Concen: 1.000 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

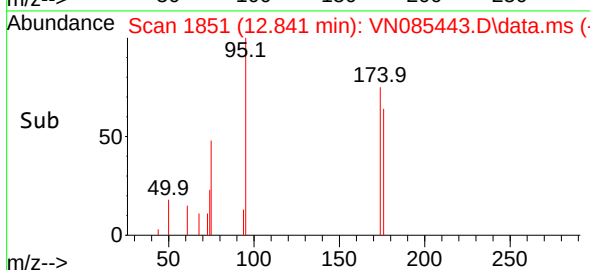
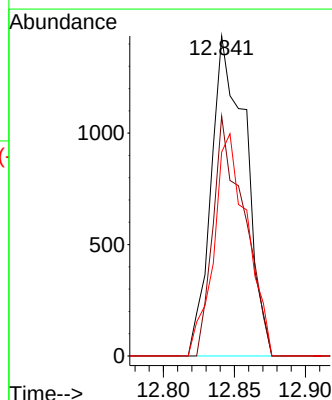
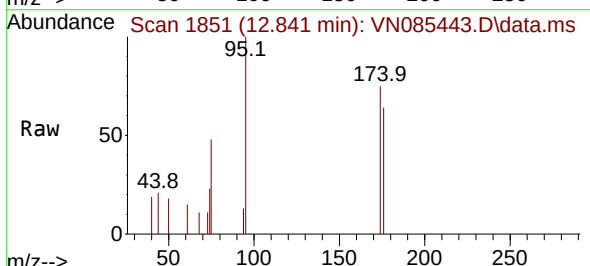
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

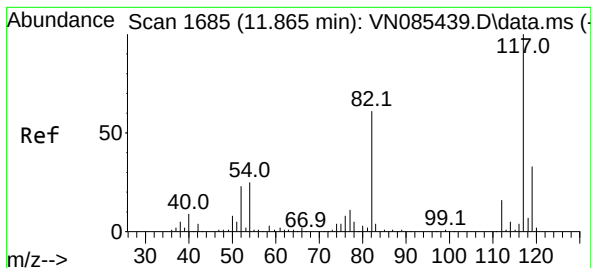
Tgt Ion:107 Resp: 2022
Ion Ratio Lower Upper
107 100
109 84.8 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 0.951 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 95 Resp: 2428
Ion Ratio Lower Upper
95 100
174 67.5 0.0 145.0
176 67.3 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

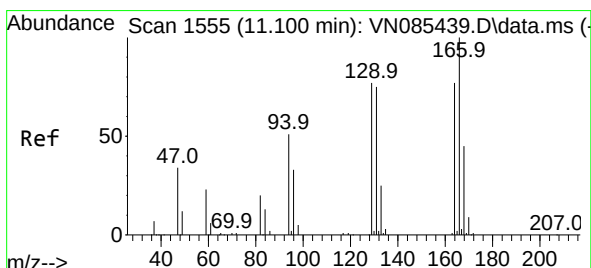
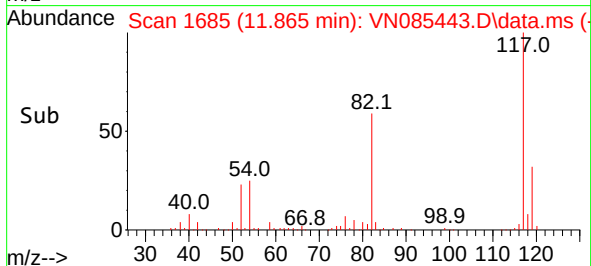
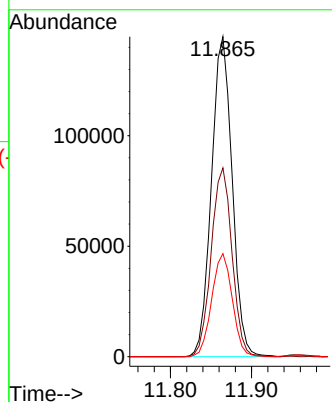
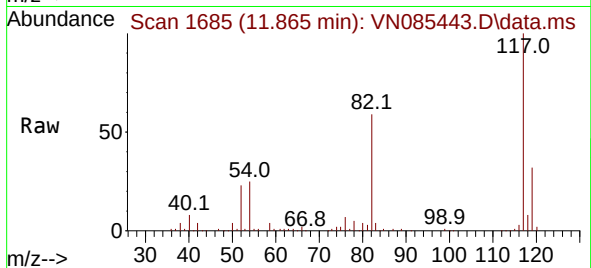
Tgt Ion:117 Resp: 256851

Ion Ratio Lower Upper

117 100

82 59.0 48.6 72.8

119 32.2 26.6 39.8



#64

Tetrachloroethene

Concen: 0.947 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Tgt Ion:164 Resp: 1658

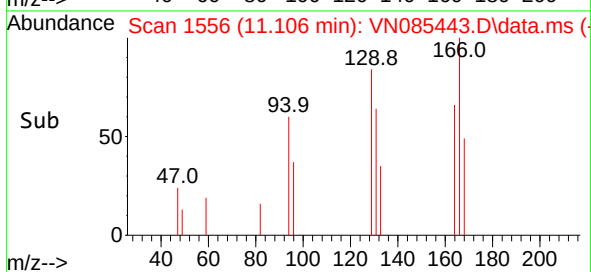
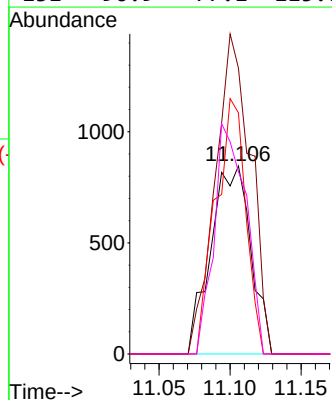
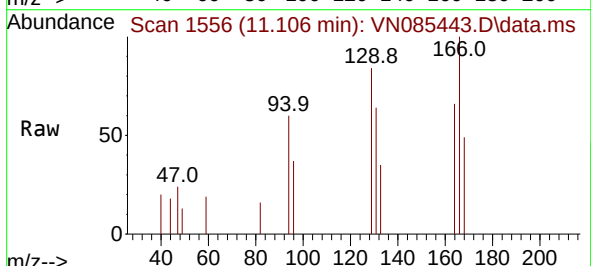
Ion Ratio Lower Upper

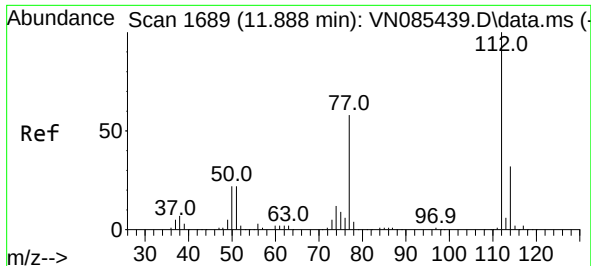
164 100

166 152.1 103.4 155.2

129 128.3 79.2 118.8#

131 96.9 77.1 115.7

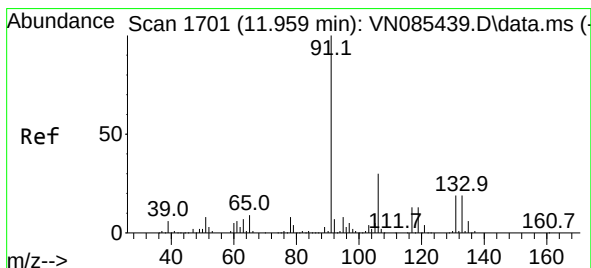
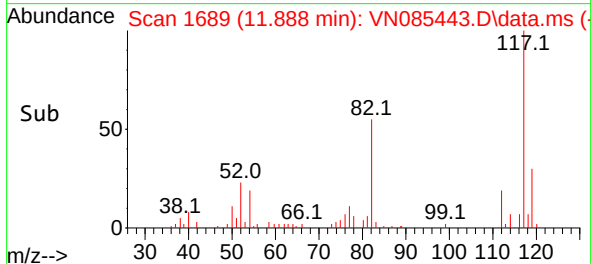
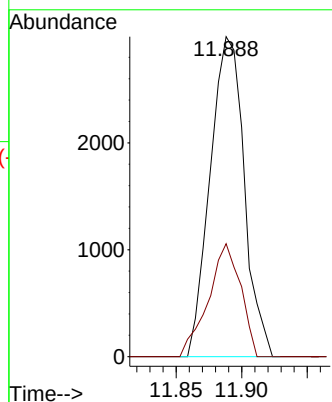
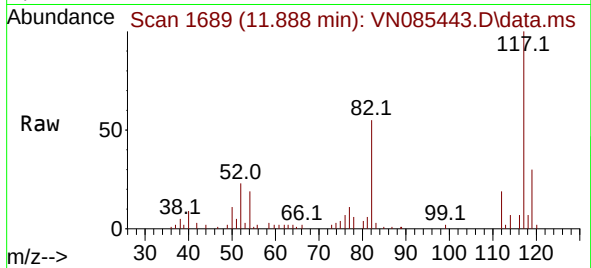




#65
Chlorobenzene
Concen: 0.960 ug/l
RT: 11.888 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

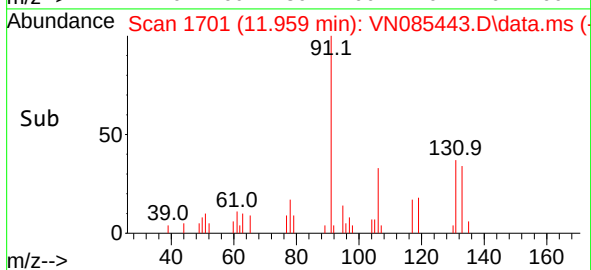
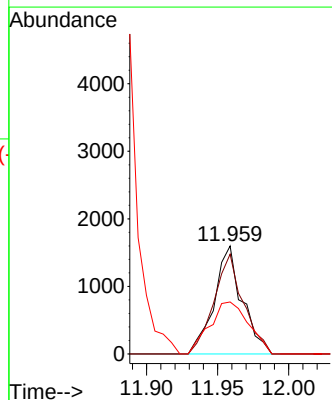
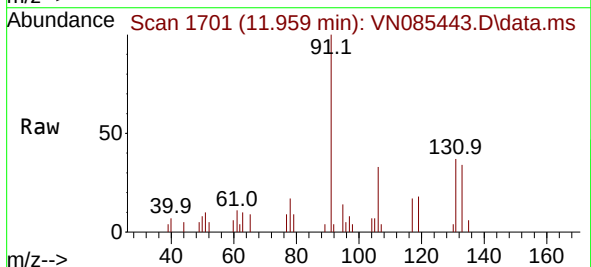
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

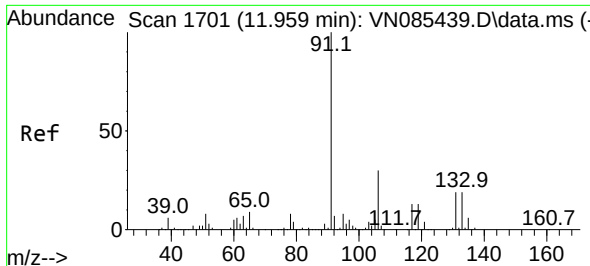
Tgt Ion:112 Resp: 5401
Ion Ratio Lower Upper
112 100
114 35.3 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 1.058 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:131 Resp: 2185
Ion Ratio Lower Upper
131 100
133 97.7 47.4 142.3
119 0.0 33.1 99.5#

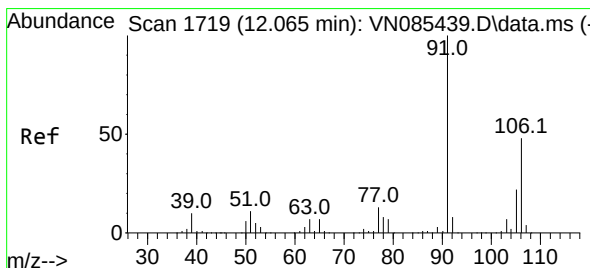
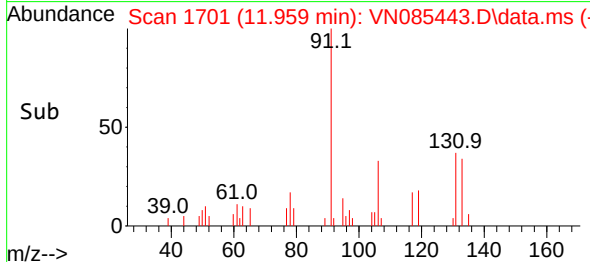
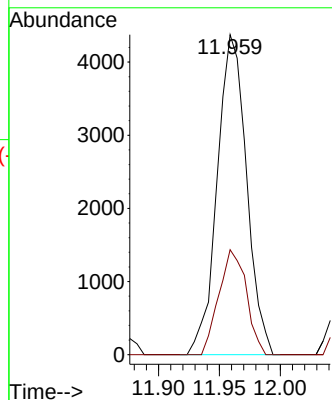
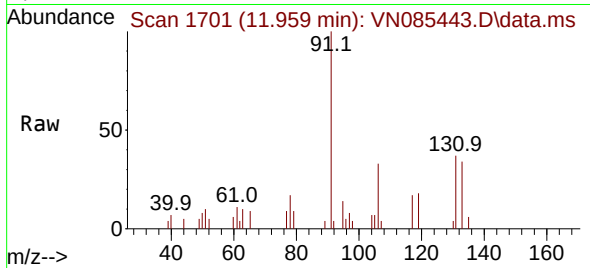




#67
Ethyl Benzene
Concen: 0.802 ug/l
RT: 11.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

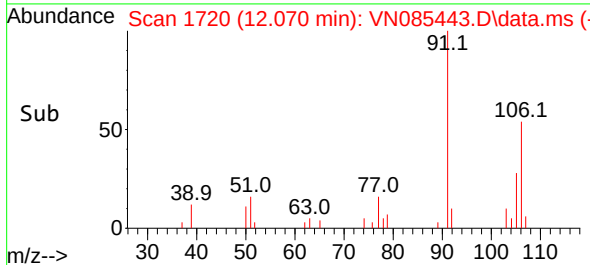
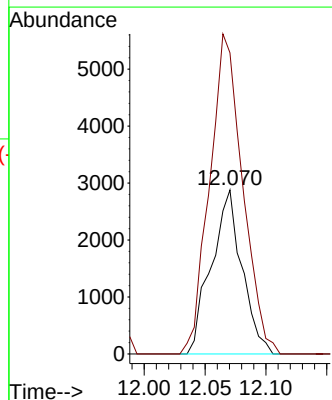
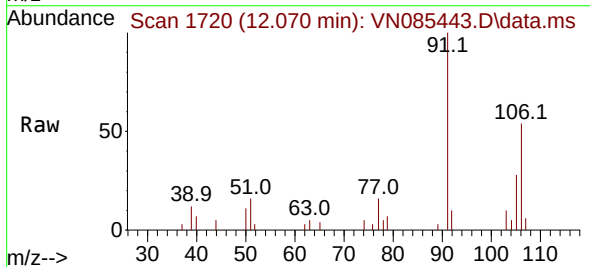
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

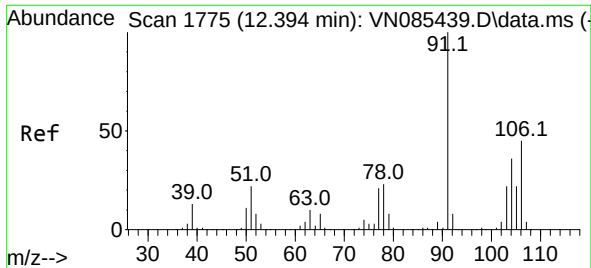
Tgt Ion: 91 Resp: 7347
Ion Ratio Lower Upper
91 100
106 32.8 23.8 35.8



#68
m/p-Xylenes
Concen: 1.494 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:106 Resp: 5059
Ion Ratio Lower Upper
106 100
91 209.3 167.7 251.5

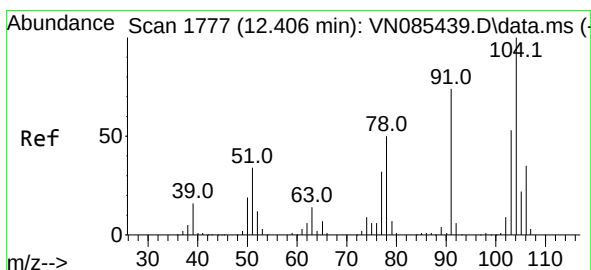
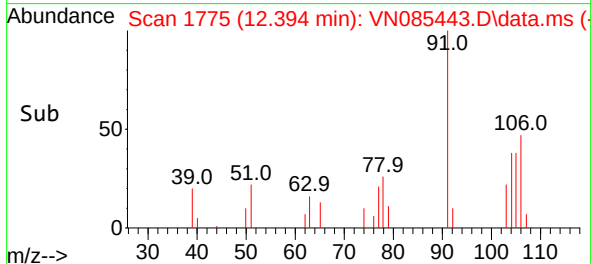
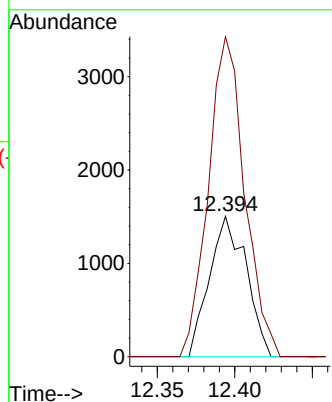
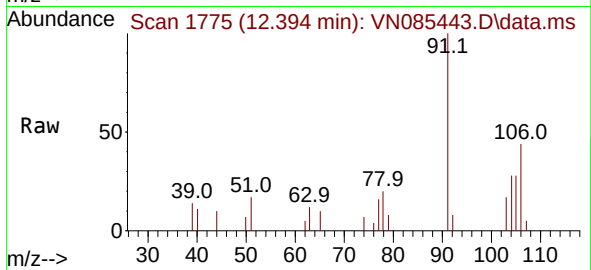




#69
o-Xylene
Concen: 0.766 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

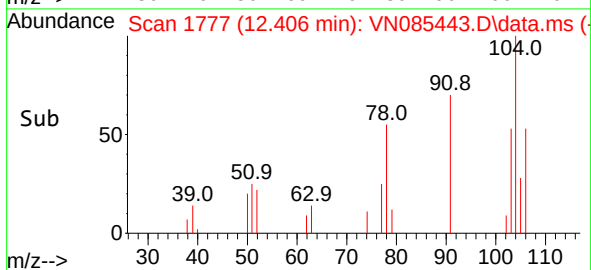
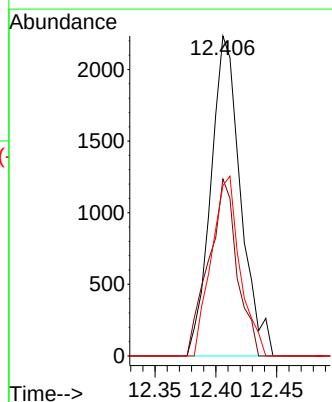
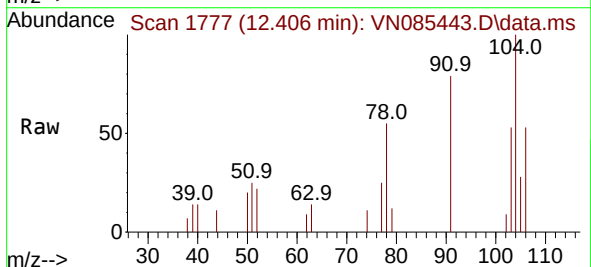
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

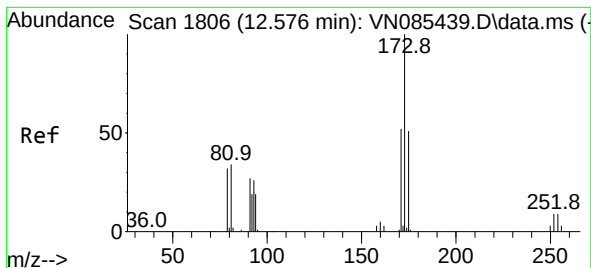
Tgt Ion:106 Resp: 2478
Ion Ratio Lower Upper
106 100
91 225.4 110.4 331.2



#70
Styrene
Concen: 0.712 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:104 Resp: 3812
Ion Ratio Lower Upper
104 100
78 52.9 42.5 63.7
103 53.7 43.8 65.8





#71

Bromoform

Concen: 0.818 ug/l

RT: 12.582 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

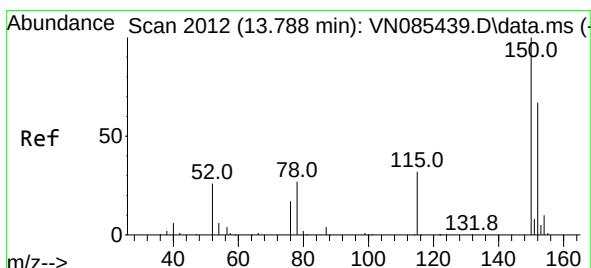
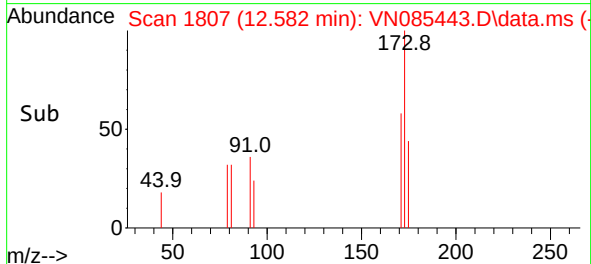
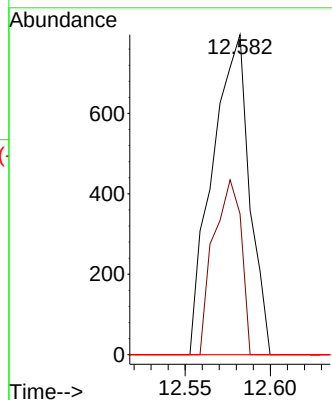
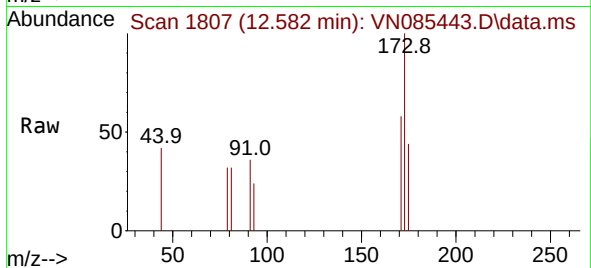
Tgt Ion:173 Resp: 1208

Ion Ratio Lower Upper

173 100

175 40.7 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

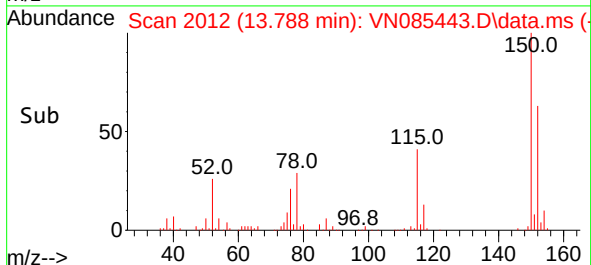
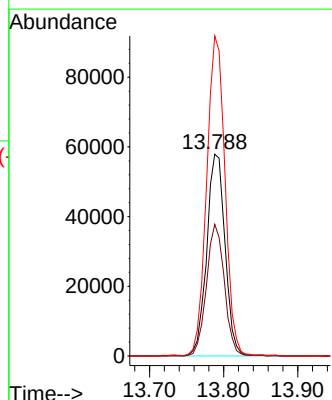
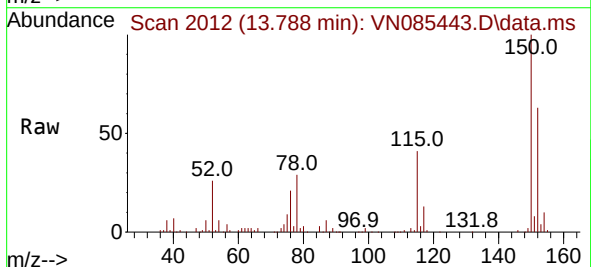
Tgt Ion:152 Resp: 99539

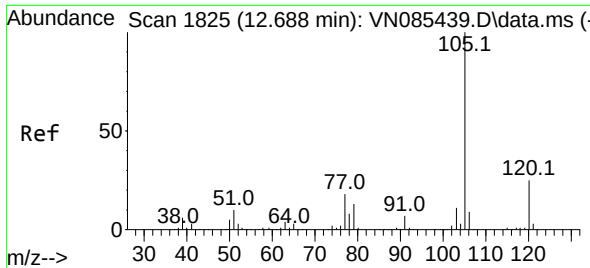
Ion Ratio Lower Upper

152 100

115 63.8 31.1 93.3

150 158.5 0.0 343.6

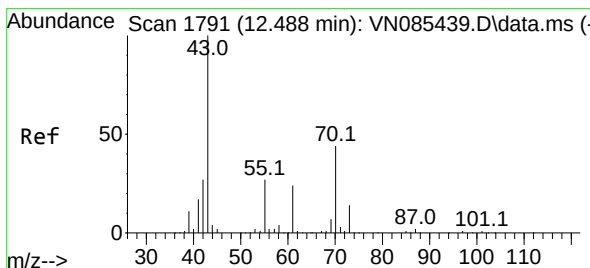
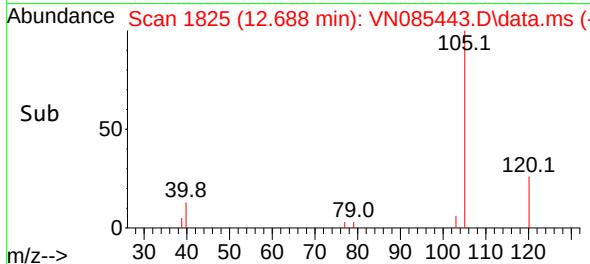
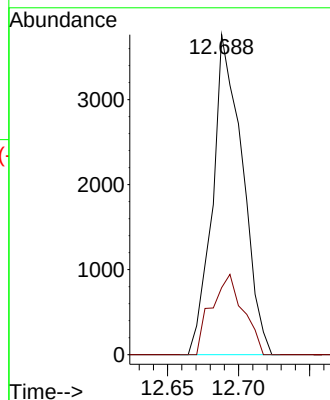
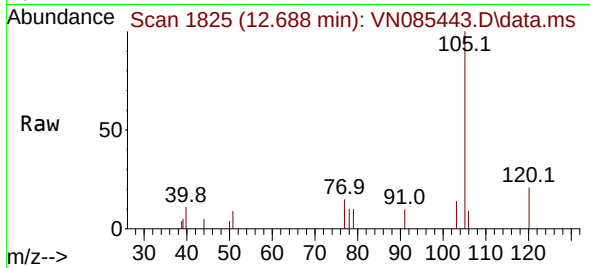




#73
Isopropylbenzene
Concen: 0.820 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

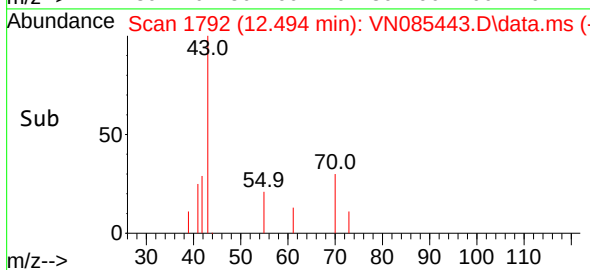
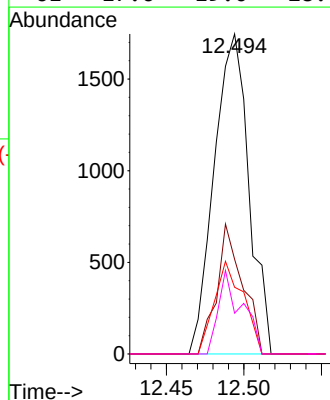
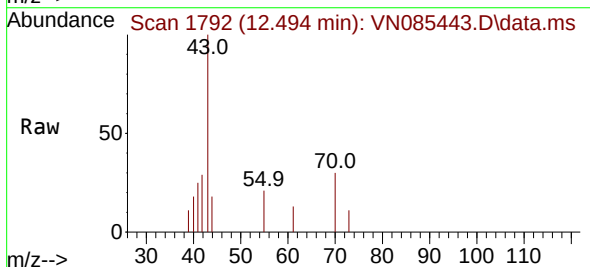
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

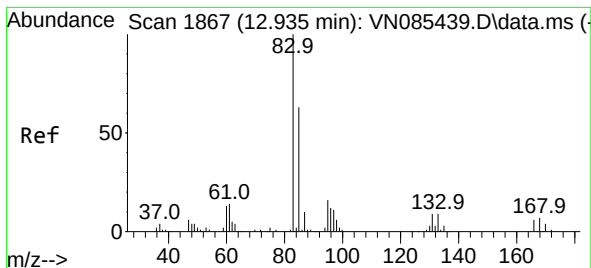
Tgt Ion:105 Resp: 5506
Ion Ratio Lower Upper
105 100
120 26.7 12.8 38.3



#74
N-ethyl acetate
Concen: 0.899 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 43 Resp: 2716
Ion Ratio Lower Upper
43 100
70 30.4 34.0 51.0#
55 24.2 21.4 32.2
61 17.6 19.0 28.4#

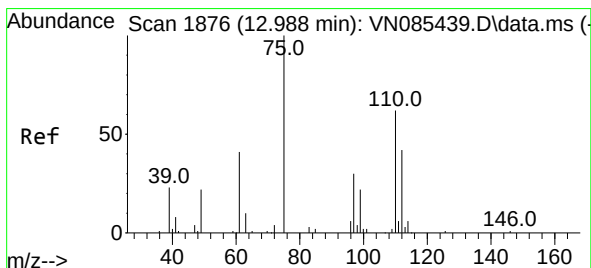
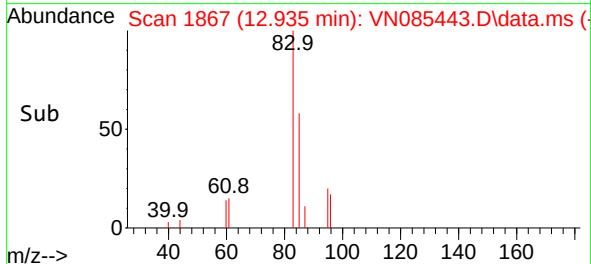
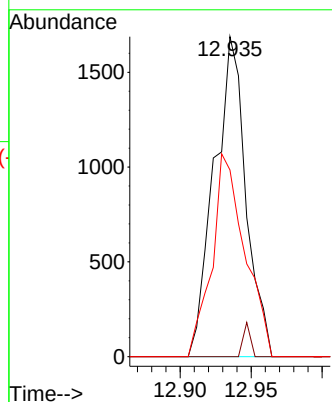
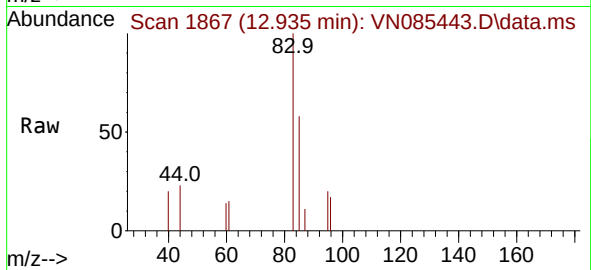




#75
1,1,2,2-Tetrachloroethane
Concen: 1.102 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

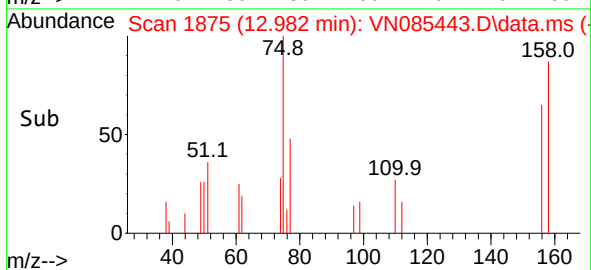
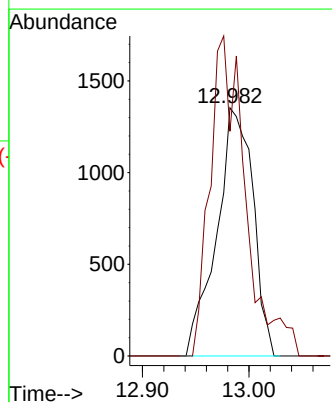
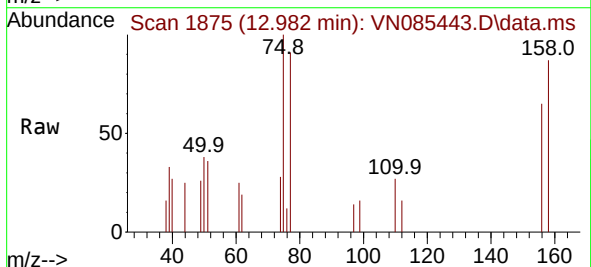
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

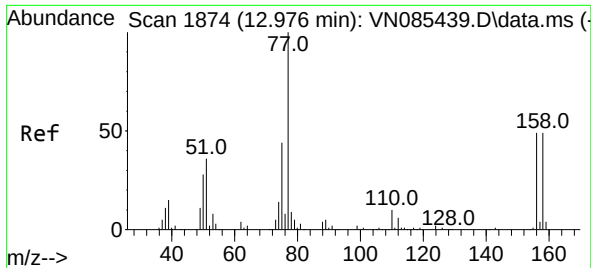
Tgt Ion: 83 Resp: 2616
Ion Ratio Lower Upper
83 100
131 2.4 4.8 14.4#
85 65.7 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 1.590 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 3212
Ion Ratio Lower Upper
75 100
77 126.0 109.7 329.2

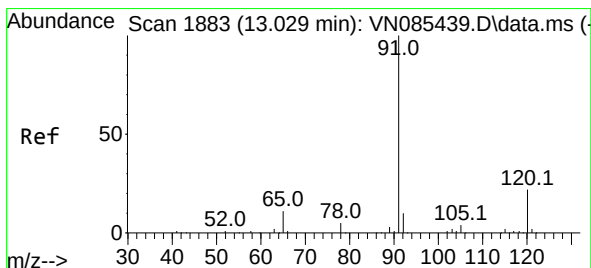
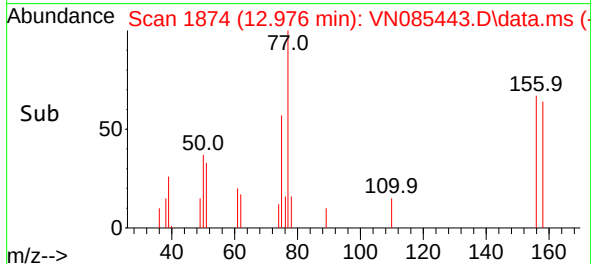
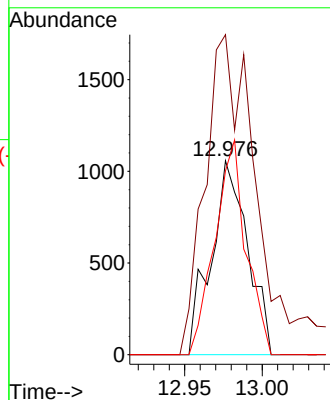
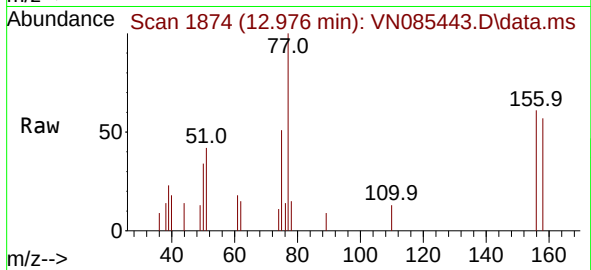




#77
Bromobenzene
Concen: 0.987 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

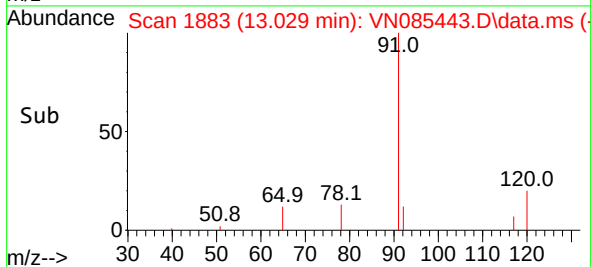
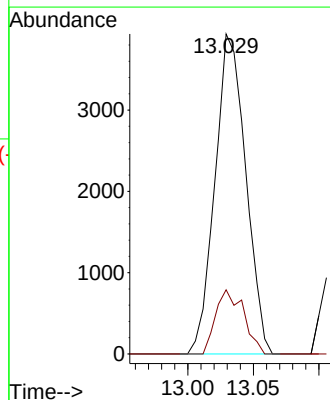
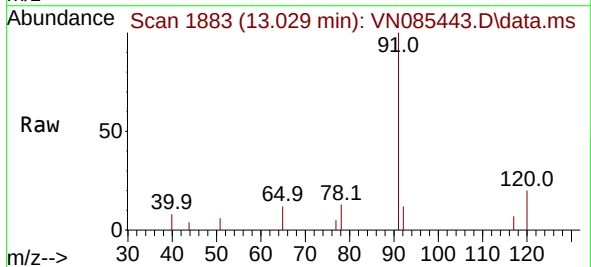
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

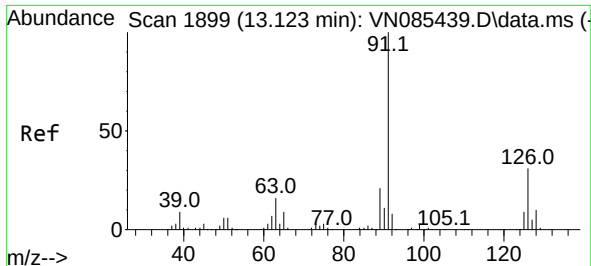
Tgt Ion:156 Resp: 1733
Ion Ratio Lower Upper
156 100
77 233.6 114.1 342.4
158 94.9 48.9 146.8



#78
n-propylbenzene
Concen: 0.808 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 6424
Ion Ratio Lower Upper
91 100
120 18.2 10.9 32.6





#79

2-Chlorotoluene

Concen: 0.871 ug/l

RT: 13.117 min Scan# 1899

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

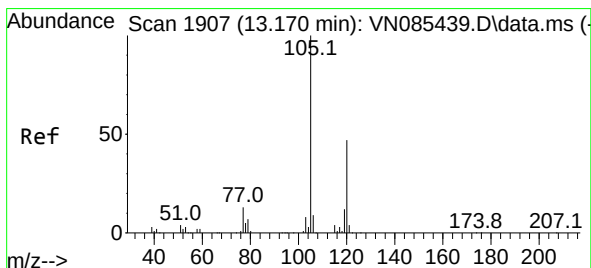
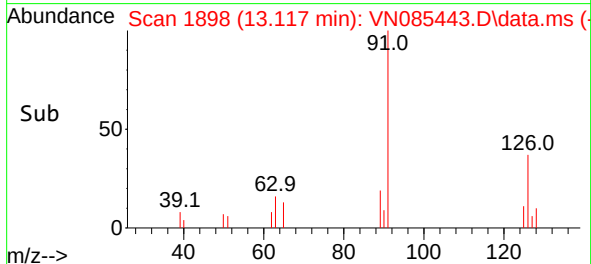
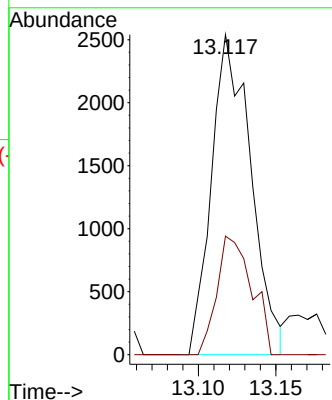
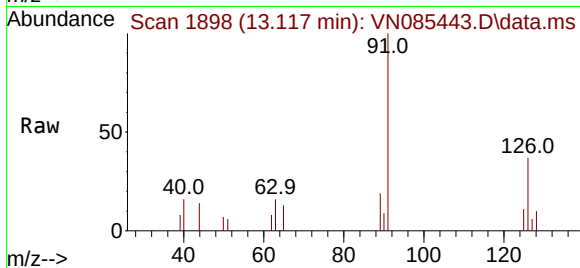
VSTDICC001

Tgt Ion: 91 Resp: 4483

Ion Ratio Lower Upper

91 100

126 32.9 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 0.775 ug/l

RT: 13.165 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VN085443.D

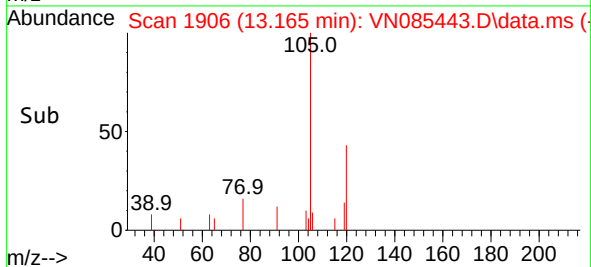
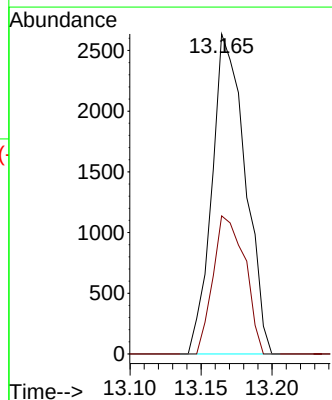
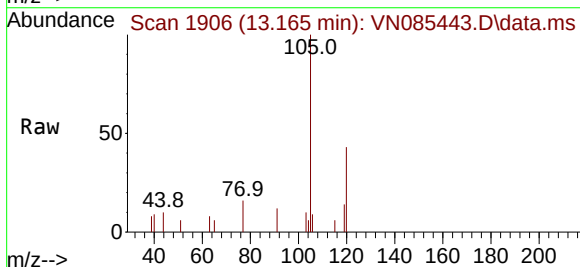
Acq: 14 Jan 2025 17:19

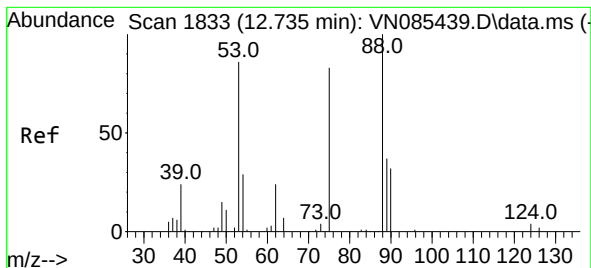
Tgt Ion: 105 Resp: 4301

Ion Ratio Lower Upper

105 100

120 41.2 23.9 71.7

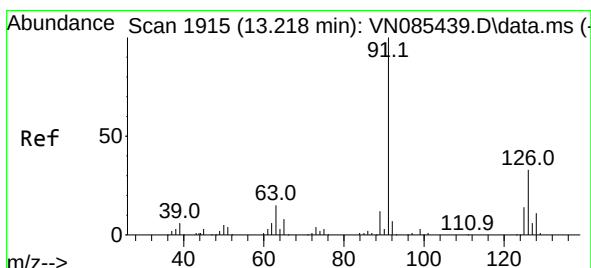
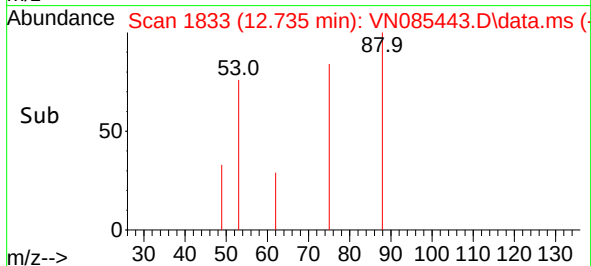
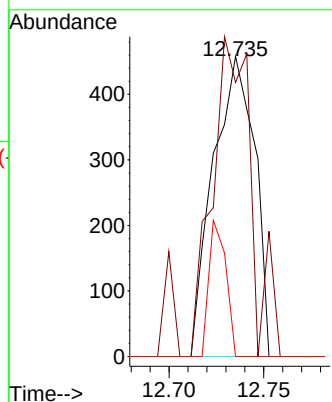
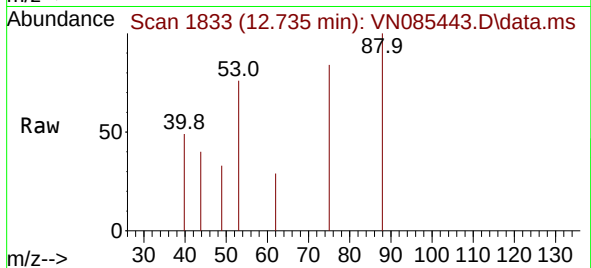




#81
trans-1,4-Dichloro-2-butene
Concen: 0.929 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

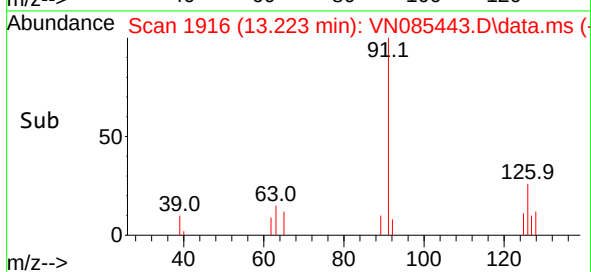
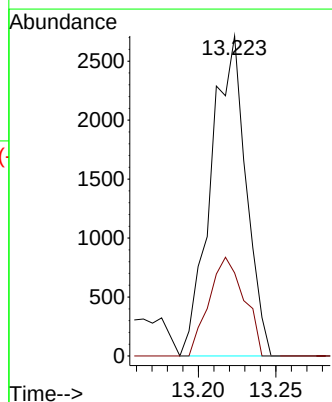
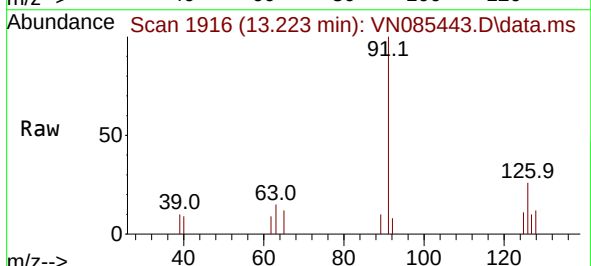
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

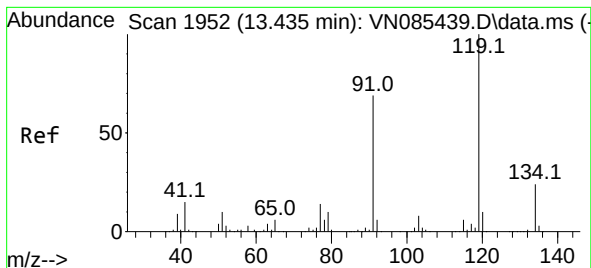
Tgt Ion: 75 Resp: 695
Ion Ratio Lower Upper
75 100
53 101.2 95.6 143.4
89 18.6 37.0 55.6#



#82
4-Chlorotoluene
Concen: 0.833 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 91 Resp: 4268
Ion Ratio Lower Upper
91 100
126 31.0 15.9 47.7





#83

tert-Butylbenzene

Concen: 0.805 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

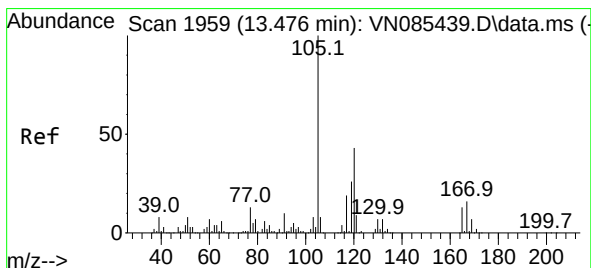
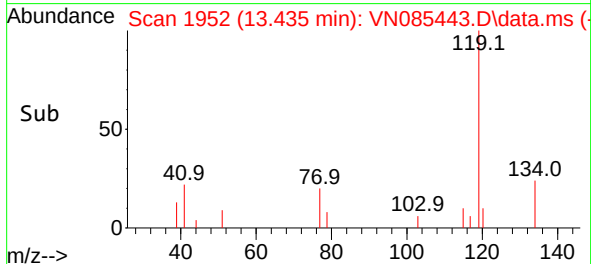
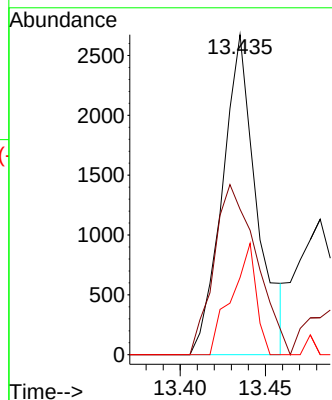
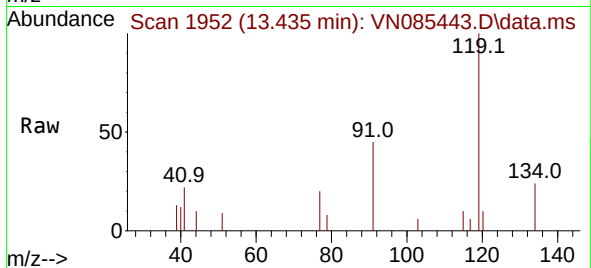
Tgt Ion:119 Resp: 3753

Ion Ratio Lower Upper

119 100

91 65.9 35.1 105.3

134 24.9 12.0 36.1



#84

1,2,4-Trimethylbenzene

Concen: 0.679 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085443.D

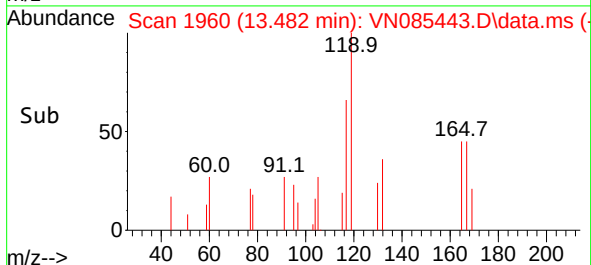
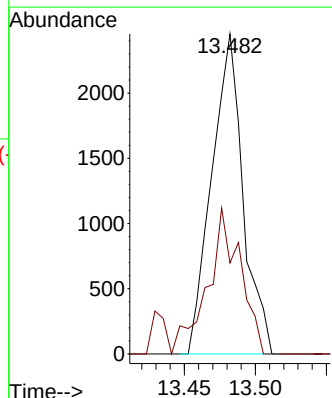
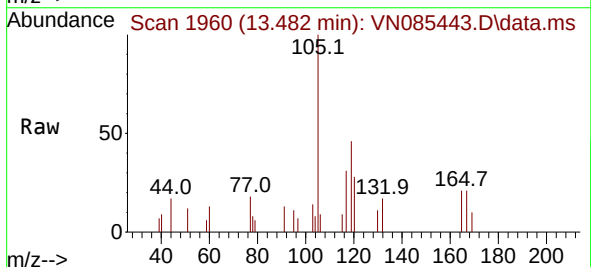
Acq: 14 Jan 2025 17:19

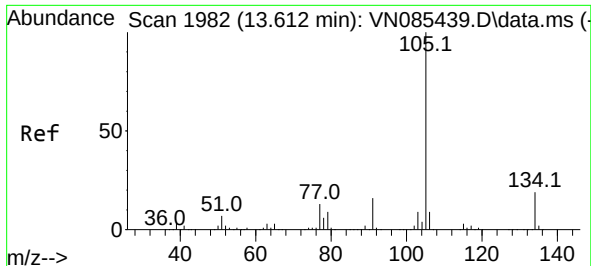
Tgt Ion:105 Resp: 3758

Ion Ratio Lower Upper

105 100

120 47.7 21.6 65.0

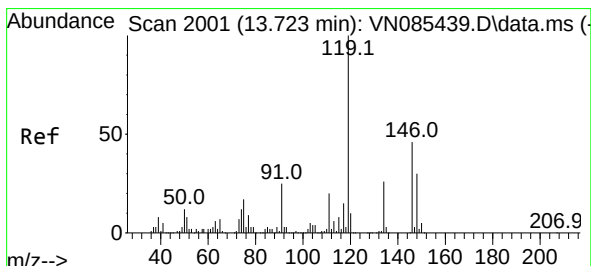
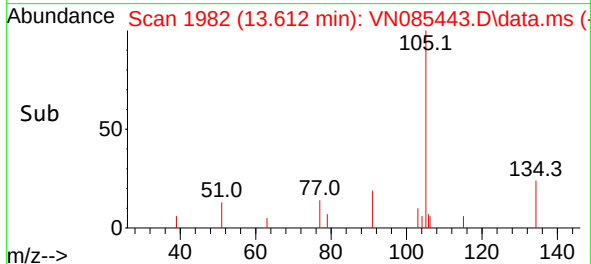
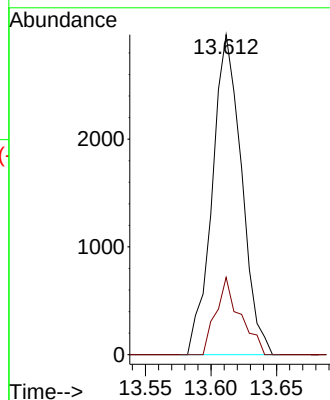
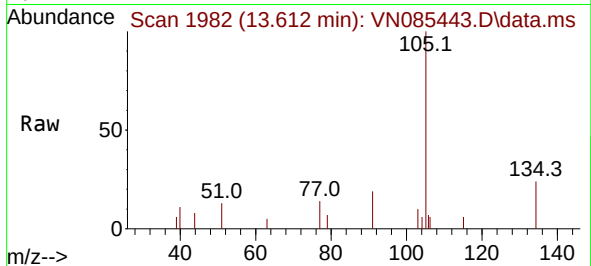




#85
 sec-Butylbenzene
 Concen: 0.714 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

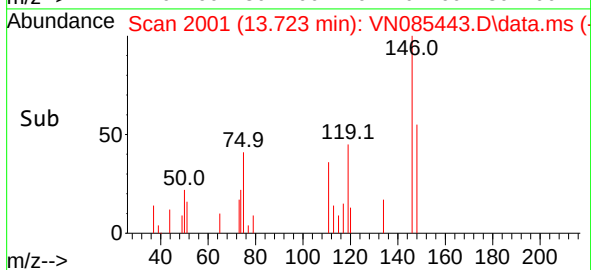
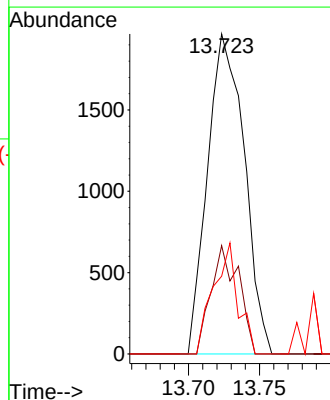
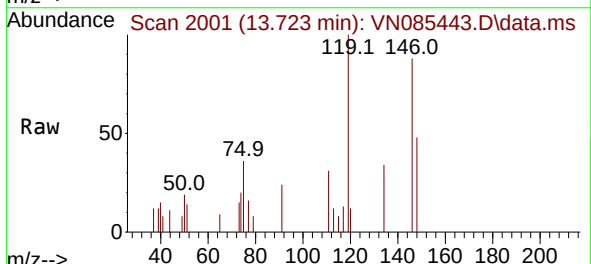
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

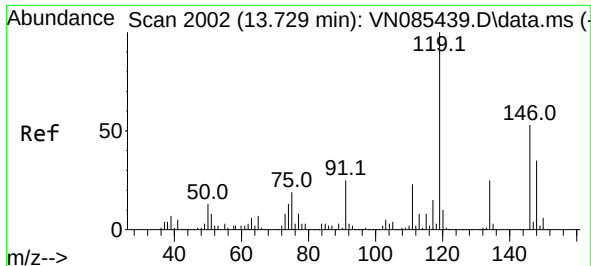
Tgt Ion:105 Resp: 4614
 Ion Ratio Lower Upper
 105 100
 134 19.9 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 0.716 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

Tgt Ion:119 Resp: 3538
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.7 38.0
 91 23.2 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 0.940 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

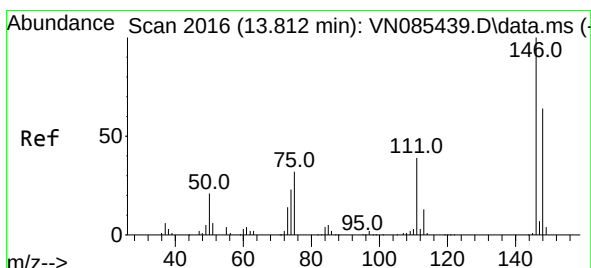
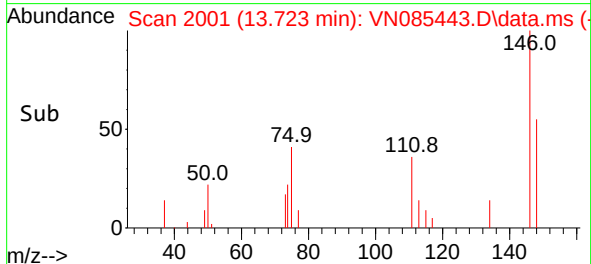
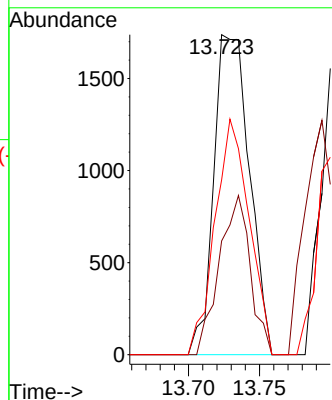
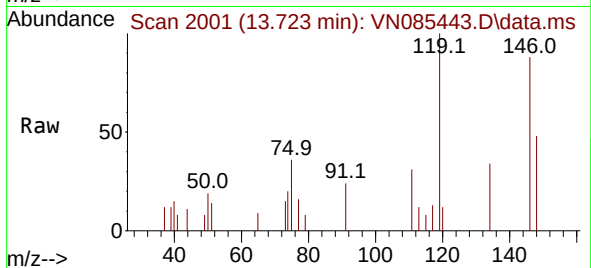
Tgt Ion:146 Resp: 3038

Ion Ratio Lower Upper

146 100

111 43.0 21.4 64.3

148 70.9 32.3 96.9



#88

1,4-Dichlorobenzene

Concen: 0.907 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.088 min

Lab File: VN085443.D

Acq: 14 Jan 2025 17:19

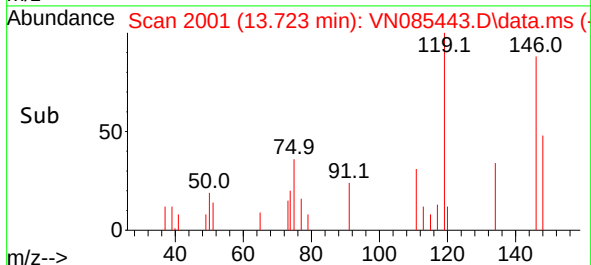
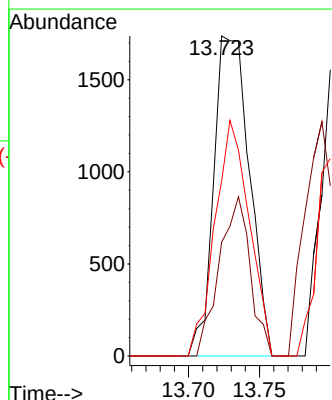
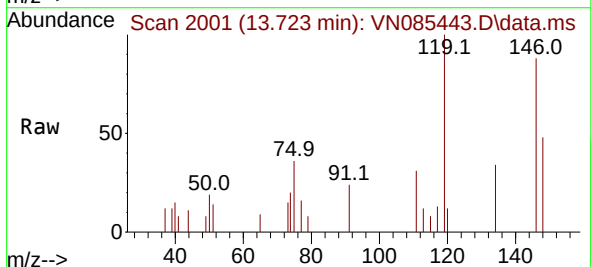
Tgt Ion:146 Resp: 3038

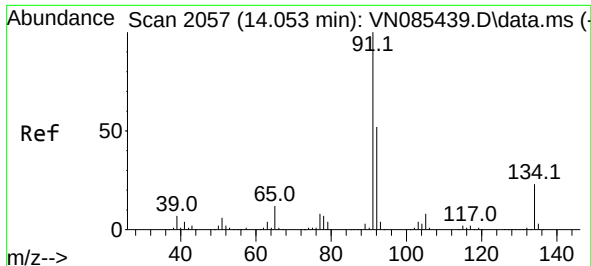
Ion Ratio Lower Upper

146 100

111 43.0 21.3 63.7

148 70.9 32.4 97.0

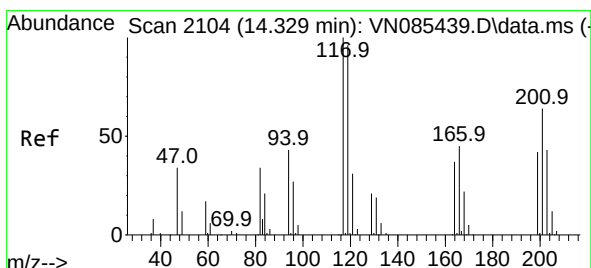
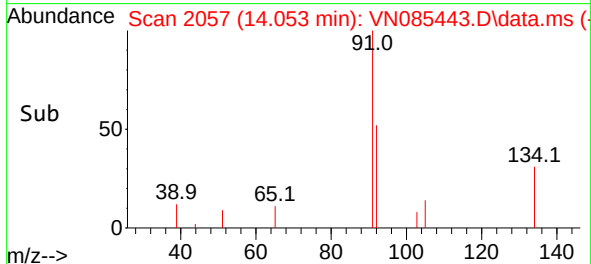
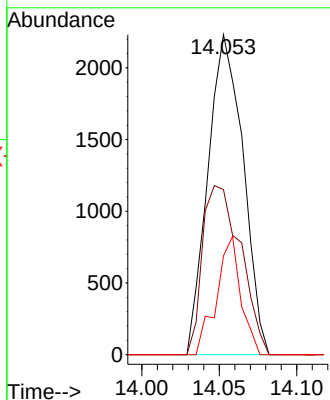
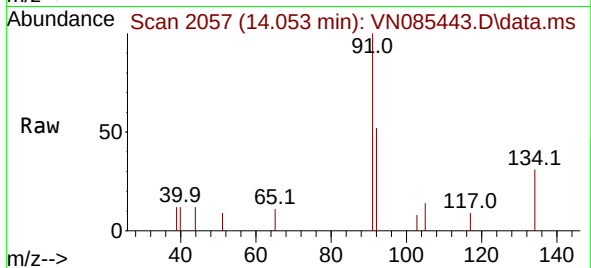




#89
n-Butylbenzene
Concen: 0.761 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

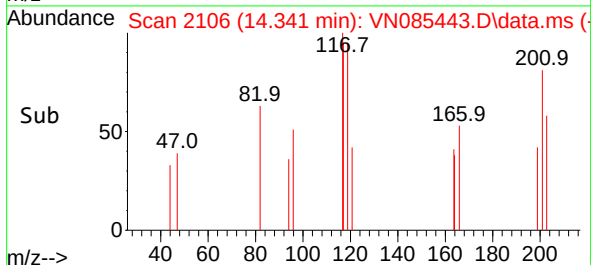
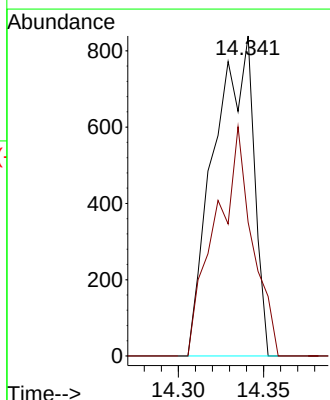
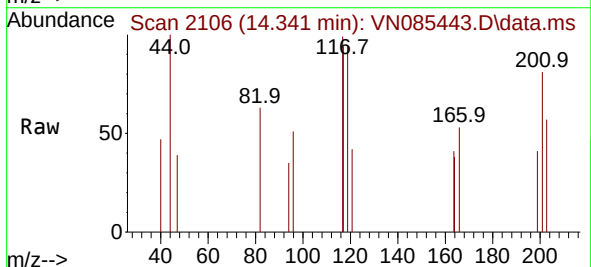
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

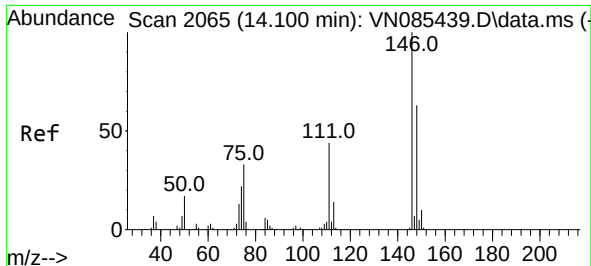
Tgt Ion: 91	Resp:	3527	
Ion	Ratio	Lower	Upper
91	100		
92	57.2	25.8	77.3
134	25.5	11.7	35.1



#90
Hexachloroethane
Concen: 1.102 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.012 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:117	Resp:	1355	
Ion	Ratio	Lower	Upper
117	100		
201	66.5	33.7	101.0

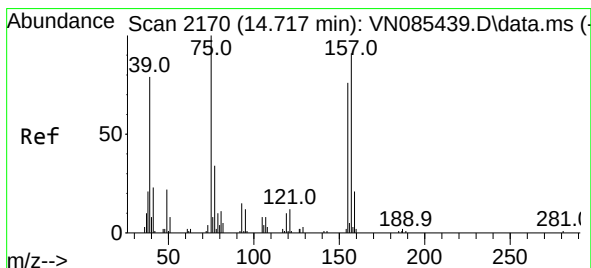
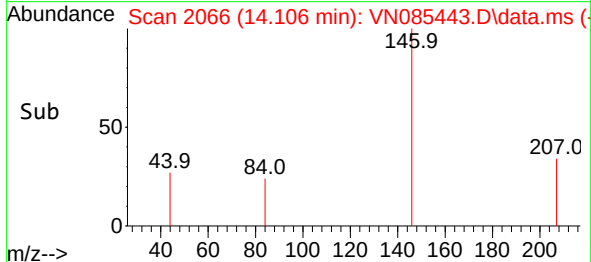
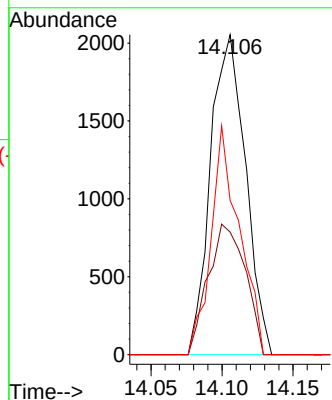
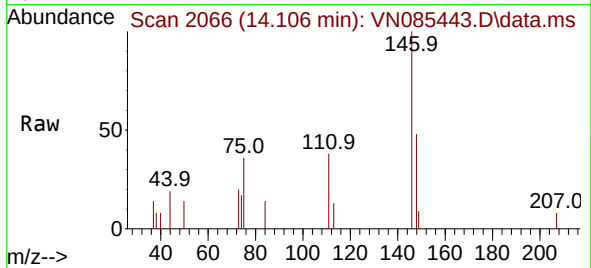




#91
1,2-Dichlorobenzene
Concen: 1.090 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

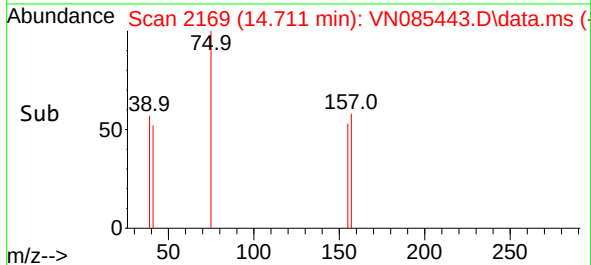
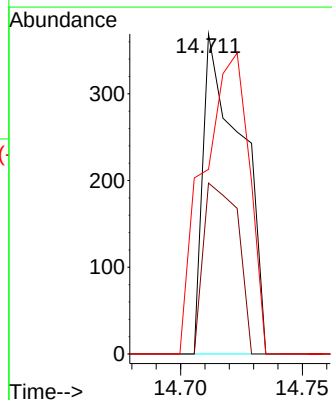
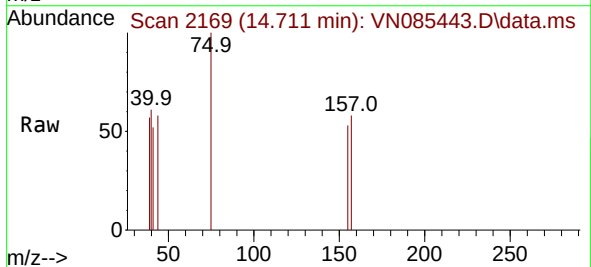
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

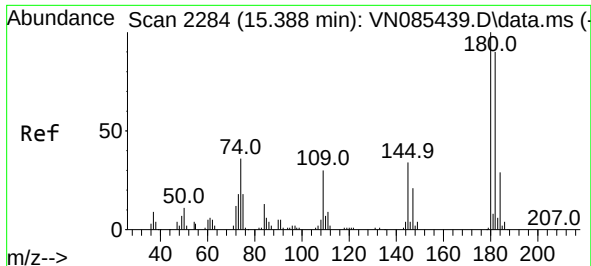
Tgt Ion:146 Resp: 3515
Ion Ratio Lower Upper
146 100
111 43.4 21.7 65.1
148 57.8 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.928 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion: 75 Resp: 402
Ion Ratio Lower Upper
75 100
155 48.0 36.4 109.2
157 112.7 45.4 136.1

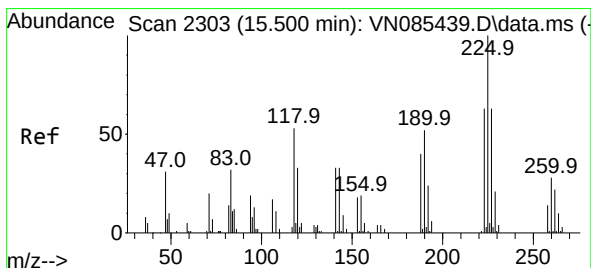
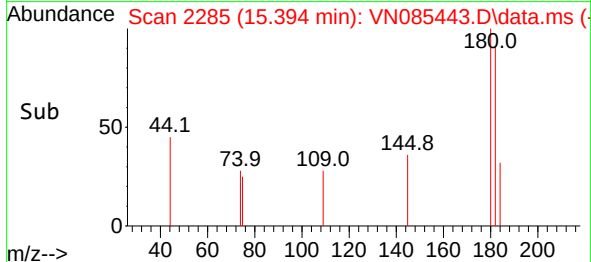
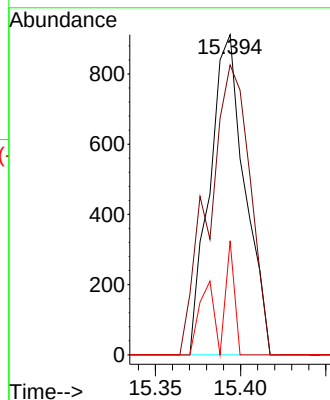
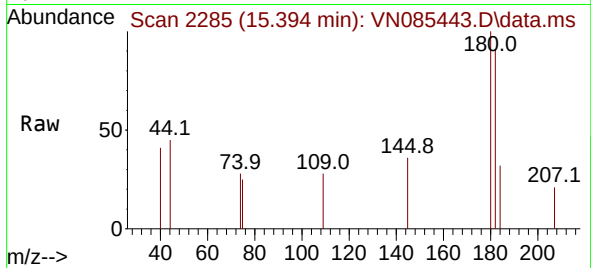




#93
 1,2,4-Trichlorobenzene
 Concen: 0.874 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

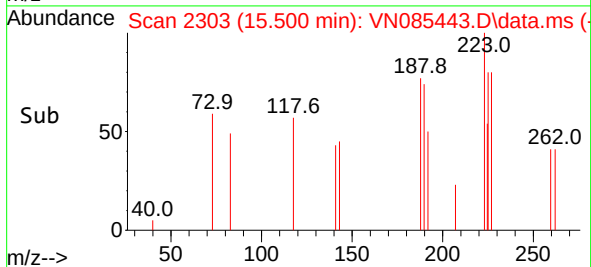
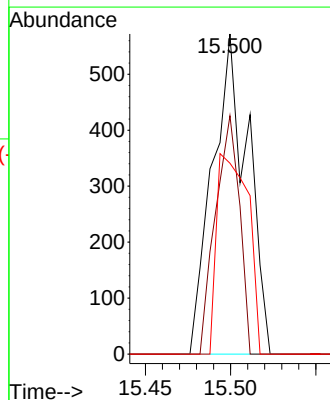
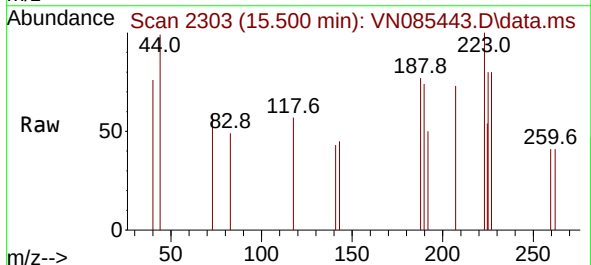
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 ClientSampleId :
 VSTDIC001

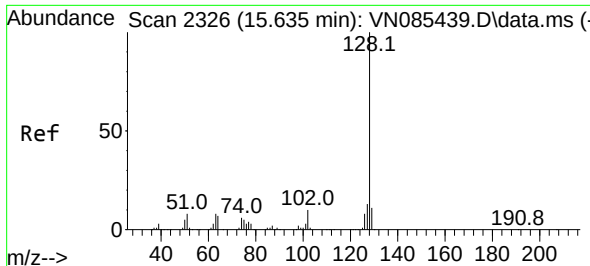
Tgt Ion:180 Resp: 1310
 Ion Ratio Lower Upper
 180 100
 182 106.3 46.8 140.3
 145 9.7 16.0 48.0#



#94
 Hexachlorobutadiene
 Concen: 1.033 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN085443.D
 Acq: 14 Jan 2025 17:19

Tgt Ion:225 Resp: 822
 Ion Ratio Lower Upper
 225 100
 223 50.7 30.7 92.1
 227 55.7 30.9 92.5

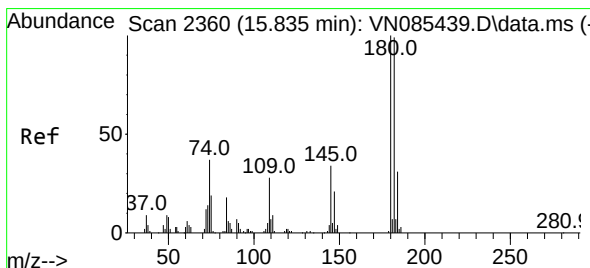
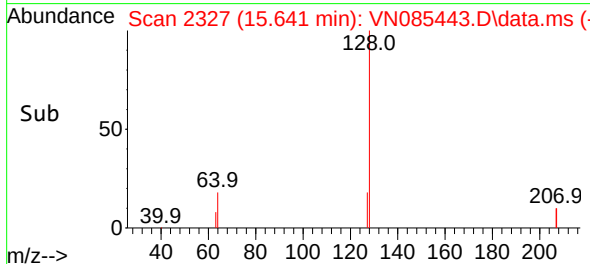
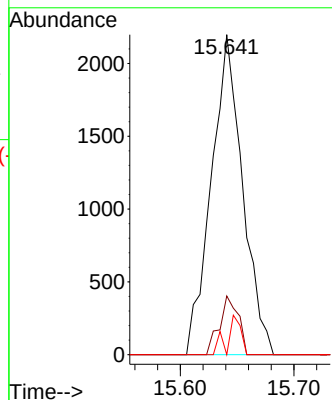
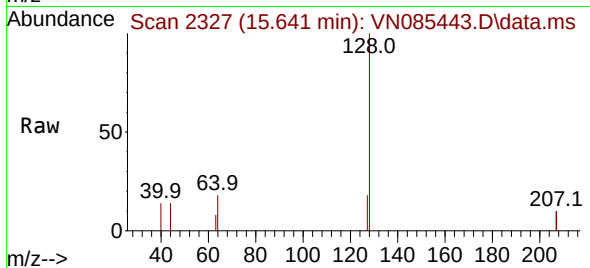




#95
Naphthalene
Concen: 0.941 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

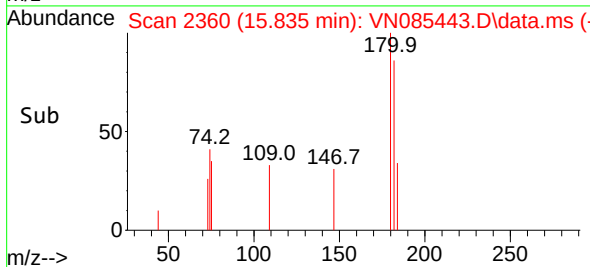
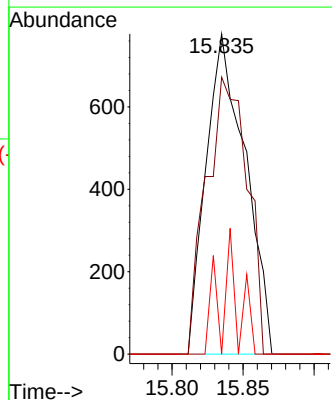
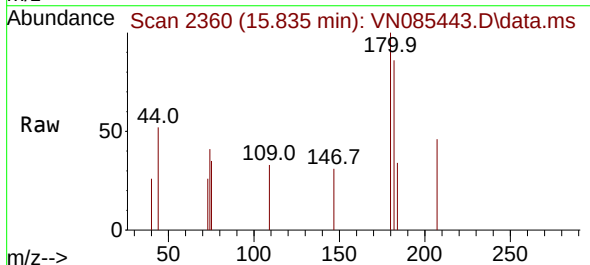
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion:128 Resp: 4210
Ion Ratio Lower Upper
128 100
127 11.1 10.6 16.0
129 5.3 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.985 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085443.D
Acq: 14 Jan 2025 17:19

Tgt Ion:180 Resp: 1494
Ion Ratio Lower Upper
180 100
182 90.2 47.4 142.2
145 11.8 16.9 50.7#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	219757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	370487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	320948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158525	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	176594	49.782	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.560%
35) Dibromofluoromethane	8.165	113	130487	50.768	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.540%
50) Toluene-d8	10.565	98	477630	52.302	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.600%
62) 4-Bromofluorobenzene	12.847	95	165249	52.899	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.800%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	130242	43.772	ug/l	100
3) Chloromethane	2.360	50	138152	42.883	ug/l	99
4) Vinyl Chloride	2.513	62	138316	42.715	ug/l	99
5) Bromomethane	2.954	94	80019	40.910	ug/l	91
6) Chloroethane	3.124	64	86837	42.299	ug/l	99
7) Trichlorofluoromethane	3.501	101	206526	43.956	ug/l	99
8) Diethyl Ether	3.959	74	69545	42.846	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	118310	44.706	ug/l	98
10) Methyl Iodide	4.595	142	140190	46.259	ug/l	98
11) Tert butyl alcohol	5.518	59	83933	206.633	ug/l	99
12) 1,1-Dichloroethene	4.342	96	106880	45.317	ug/l	98
13) Acrolein	4.177	56	135720	244.765	ug/l	99
14) Allyl chloride	5.024	41	170308	44.501	ug/l	99
15) Acrylonitrile	5.712	53	294062	227.920	ug/l	99
16) Acetone	4.418	43	245248	213.971	ug/l	98
17) Carbon Disulfide	4.712	76	300215	41.342	ug/l	100
18) Methyl Acetate	5.018	43	156938	45.028	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	365819	47.768	ug/l	100
20) Methylene Chloride	5.271	84	122059	43.017	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	112597	44.672	ug/l	93
22) Diisopropyl ether	6.665	45	399206	46.996	ug/l	99
23) Vinyl Acetate	6.601	43	1471068	247.459	ug/l	100
24) 1,1-Dichloroethane	6.571	63	228489	44.114	ug/l	98
25) 2-Butanone	7.477	43	386125	228.924	ug/l	100
26) 2,2-Dichloropropane	7.489	77	199303	47.593	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	134920	45.446	ug/l	98
28) Bromochloromethane	7.812	49	106323	44.122	ug/l	100
29) Tetrahydrofuran	7.836	42	255650	239.065	ug/l	99
30) Chloroform	7.965	83	235923	44.071	ug/l	98
31) Cyclohexane	8.253	56	193034	42.878	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	208172	44.332	ug/l	99
36) 1,1-Dichloropropene	8.365	75	161834	44.863	ug/l	98
37) Ethyl Acetate	7.559	43	160656	44.123	ug/l	97
38) Carbon Tetrachloride	8.359	117	183592	44.456	ug/l	99
39) Methylcyclohexane	9.600	83	168431	49.687	ug/l	98
40) Benzene	8.600	78	494871	45.657	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
 Data File : VN085445.D
 Acq On : 14 Jan 2025 18:06
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

Quant Time: Jan 15 02:20:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	89326	47.155	ug/l	99
42) 1,2-Dichloroethane	8.665	62	185663	45.481	ug/l	100
43) Isopropyl Acetate	8.683	43	265107	45.440	ug/l	99
44) Trichloroethene	9.347	130	110058	43.622	ug/l	96
45) 1,2-Dichloropropane	9.618	63	123876	44.744	ug/l	97
46) Dibromomethane	9.700	93	88325	44.214	ug/l	98
47) Bromodichloromethane	9.889	83	185808	45.655	ug/l	99
48) Methyl methacrylate	9.677	41	131142	49.948	ug/l	97
49) 1,4-Dioxane	9.689	88	35051	792.760	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	832426	245.877	ug/l	99
52) Toluene	10.630	92	301911	48.073	ug/l	99
53) t-1,3-Dichloropropene	10.830	75	183680	47.757	ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	196307	47.783	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	114757	46.173	ug/l	97
56) Ethyl methacrylate	10.871	69	182170	43.762	ug/l	98
57) 1,3-Dichloropropane	11.159	76	202583	46.877	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	403949	256.116	ug/l	99
59) 2-Hexanone	11.194	43	598433	251.213	ug/l	100
60) Dibromochloromethane	11.353	129	137831	45.935	ug/l	99
61) 1,2-Dibromoethane	11.465	107	110926	44.837	ug/l	100
64) Tetrachloroethene	11.100	164	98211	44.886	ug/l	96
65) Chlorobenzene	11.888	112	322723	45.901	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	115379	44.712	ug/l	99
67) Ethyl Benzene	11.959	91	577059	50.391	ug/l	97
68) m/p-Xylenes	12.071	106	437367	103.341	ug/l	100
69) o-Xylene	12.394	106	210698	52.093	ug/l	99
70) Styrene	12.406	104	355459	53.103	ug/l	100
71) Bromoform	12.577	173	90693	49.119	ug/l #	100
73) Isopropylbenzene	12.694	105	534428	49.951	ug/l	99
74) N-amyl acetate	12.488	43	234342	48.730	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	164882	43.627	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	221480	68.739	ug/l	44
77) Bromobenzene	12.977	156	128968	46.138	ug/l	97
78) n-propylbenzene	13.029	91	645977	51.001	ug/l	100
79) 2-Chlorotoluene	13.124	91	392404	47.870	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	456048	51.604	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	66842	56.127	ug/l	86
82) 4-Chlorotoluene	13.218	91	398110	48.776	ug/l	100
83) tert-Butylbenzene	13.435	119	378478	50.997	ug/l	98
84) 1,2,4-Trimethylbenzene	13.477	105	457340	51.922	ug/l	100
85) sec-Butylbenzene	13.612	105	532578	51.777	ug/l	100
86) p-Isopropyltoluene	13.729	119	440284	47.795	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	236387	45.920	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	235319	44.102	ug/l	99
89) n-Butylbenzene	14.053	91	373227	50.578	ug/l	99
90) Hexachloroethane	14.329	117	88538	45.215	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	231646	45.113	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	31899	46.221	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	109157	45.739	ug/l	98
94) Hexachlorobutadiene	15.500	225	53358	42.112	ug/l	99
95) Naphthalene	15.641	128	335535	47.116	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	107583	44.551	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

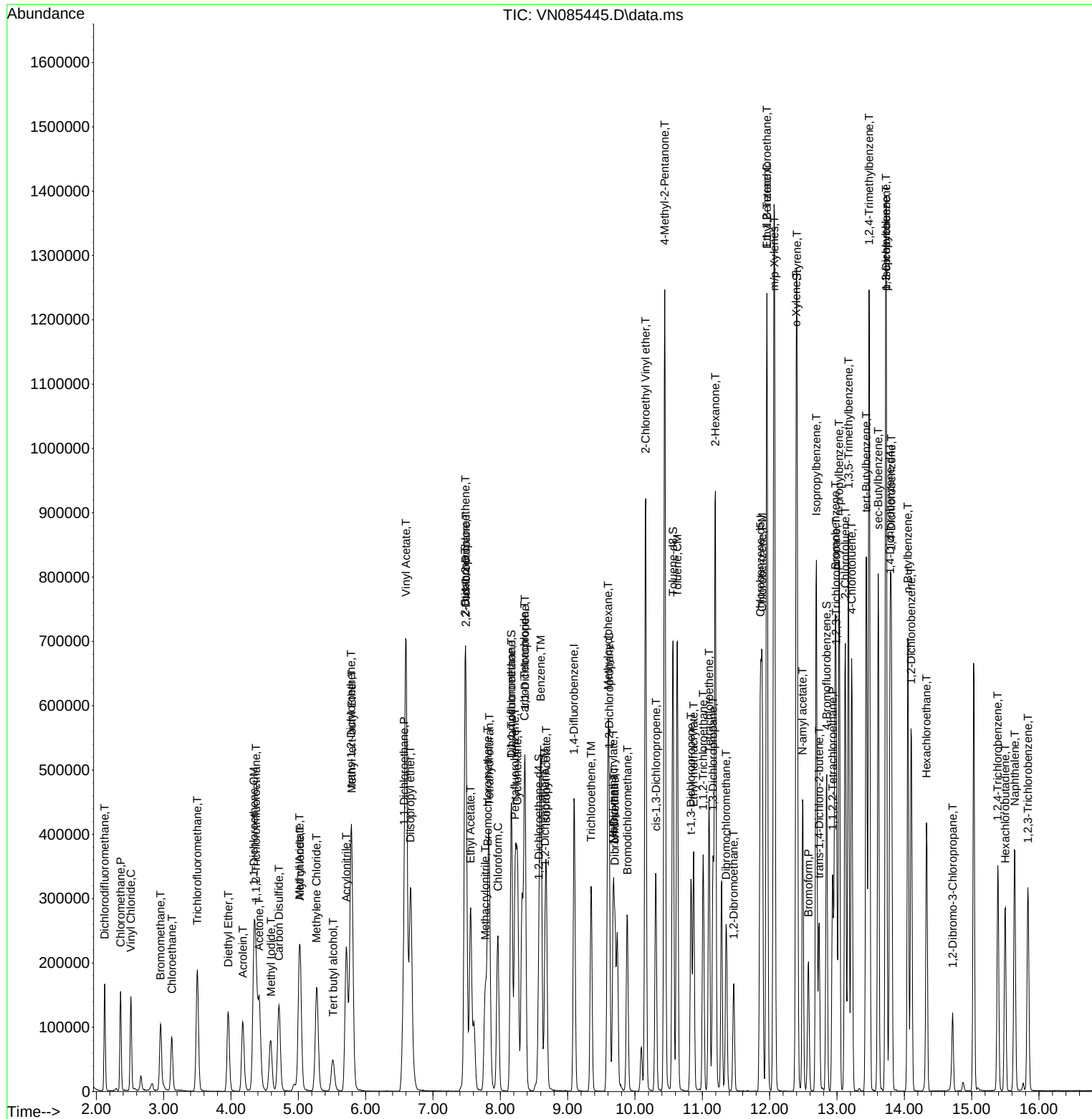
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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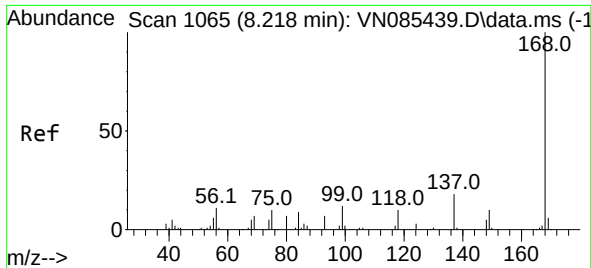
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011425\
Data File : VN085445.D
Acq On : 14 Jan 2025 18:06
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Quant Time: Jan 15 02:20:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

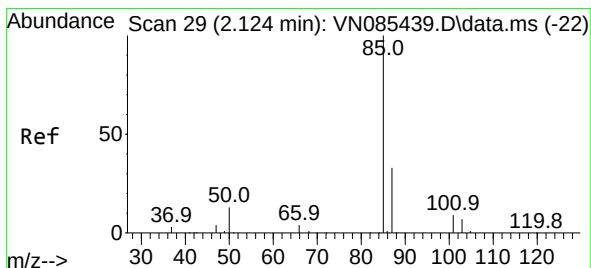
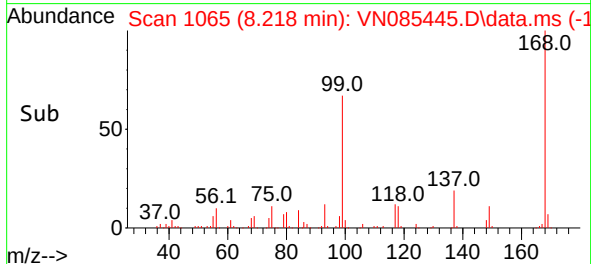
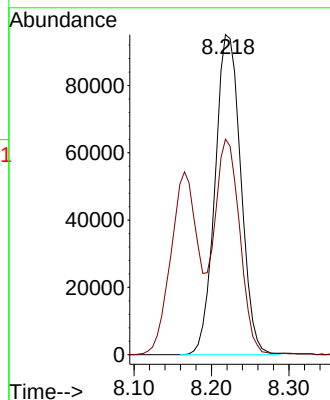
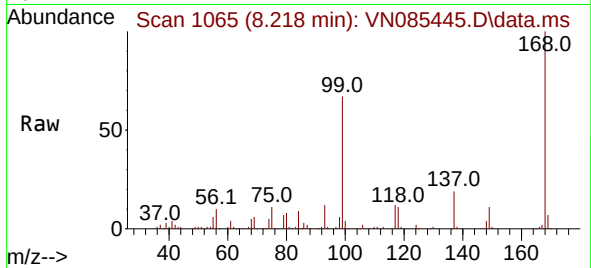




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

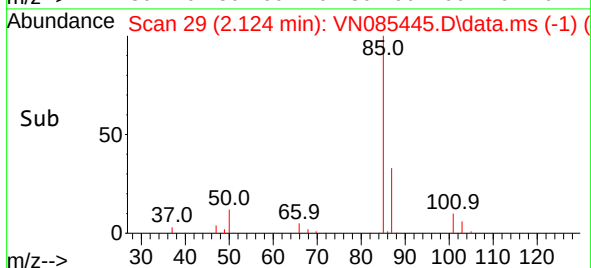
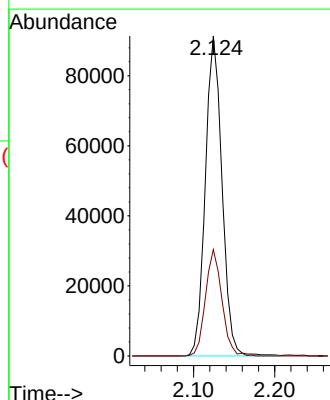
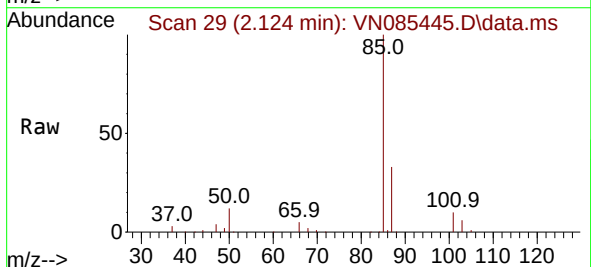
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MSVOA_N
ClientSampleId :
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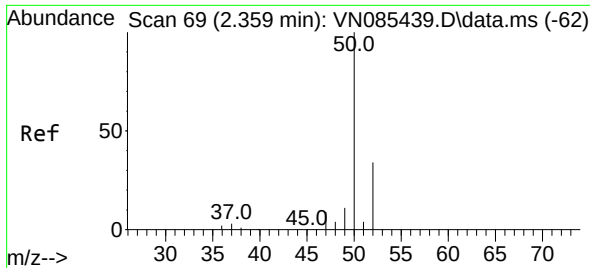
Tgt Ion:168 Resp: 219757
Ion Ratio Lower Upper
168 100
99 66.9 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 43.772 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 85 Resp: 130242
Ion Ratio Lower Upper
85 100
87 33.2 16.7 50.1

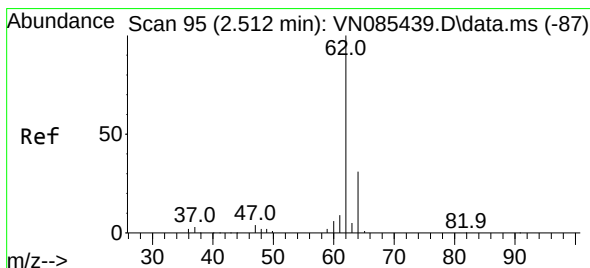
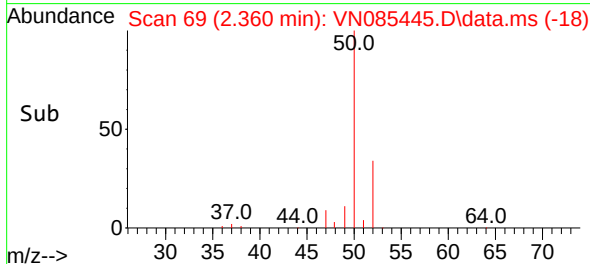
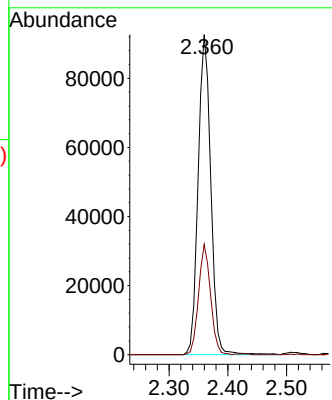
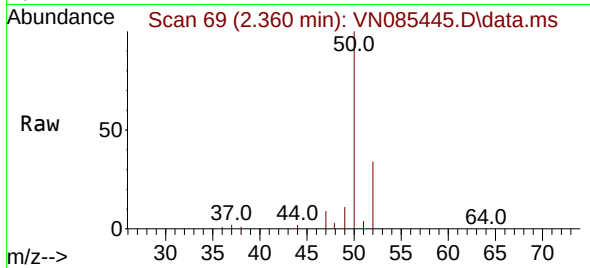




#3
 Chloromethane
 Concen: 42.883 ug/l
 RT: 2.360 min Scan# 69
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

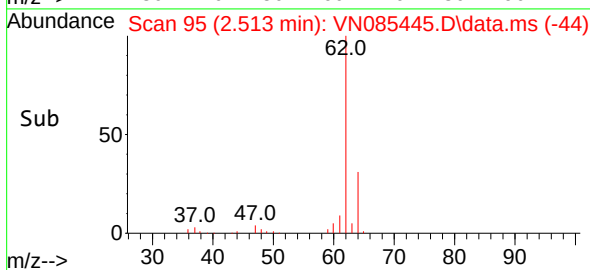
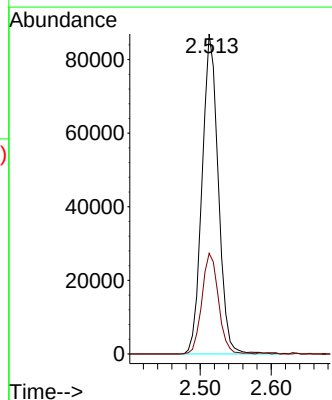
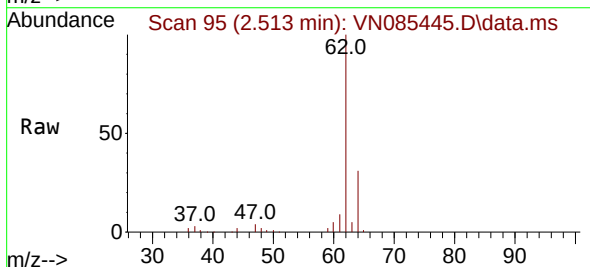
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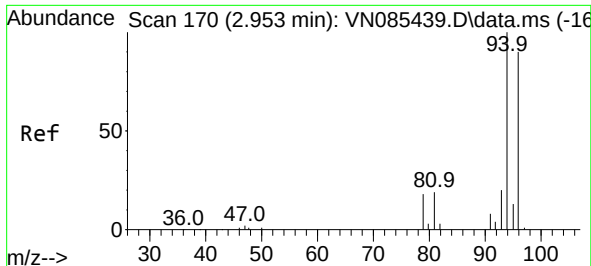
Tgt Ion: 50 Resp: 138152
 Ion Ratio Lower Upper
 50 100
 52 34.4 27.0 40.6



#4
 Vinyl Chloride
 Concen: 42.715 ug/l
 RT: 2.513 min Scan# 95
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 138316
 Ion Ratio Lower Upper
 62 100
 64 31.4 24.8 37.2

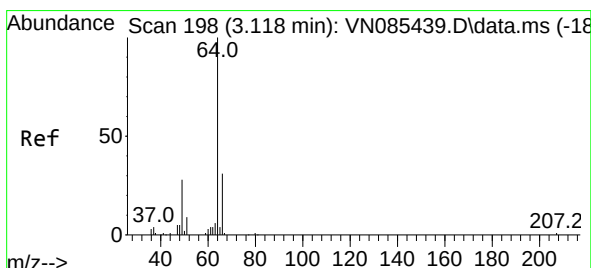
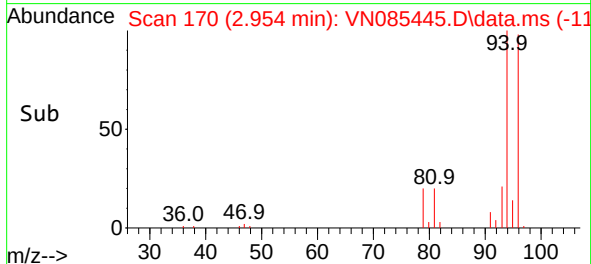
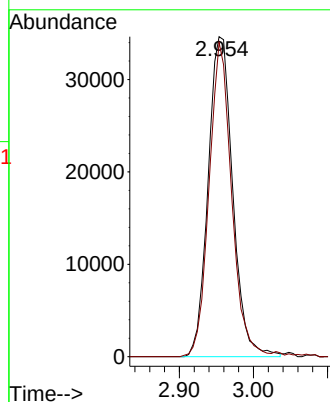
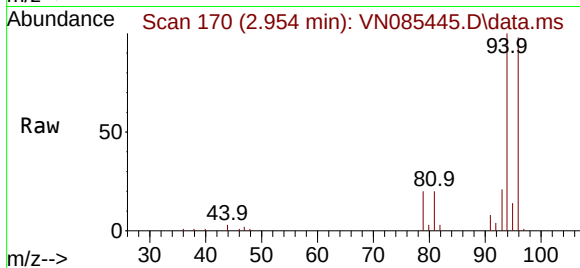




#5
Bromomethane
Concen: 40.910 ug/l
RT: 2.954 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

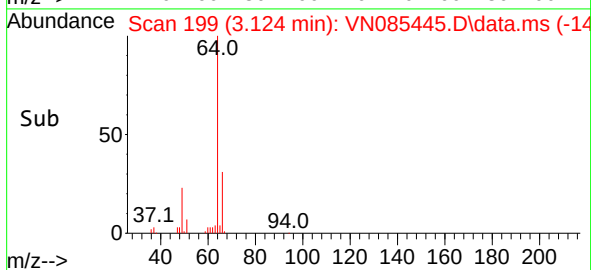
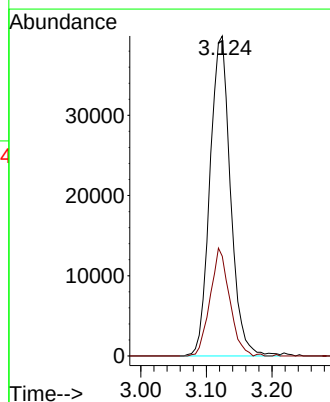
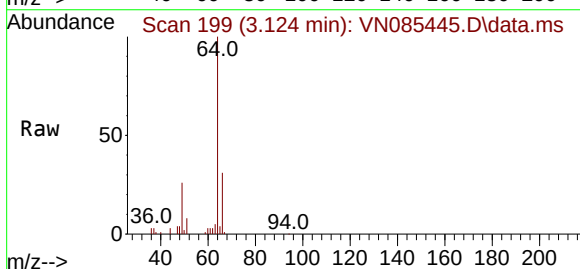
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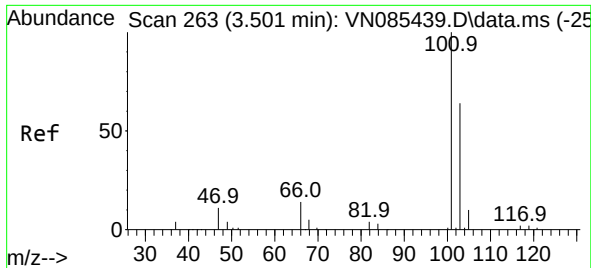
Tgt Ion: 94 Resp: 80019
Ion Ratio Lower Upper
94 100
96 98.2 71.8 107.6



#6
Chloroethane
Concen: 42.299 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 64 Resp: 86837
Ion Ratio Lower Upper
64 100
66 31.1 24.6 36.8

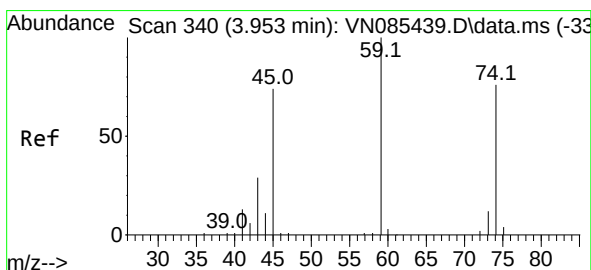
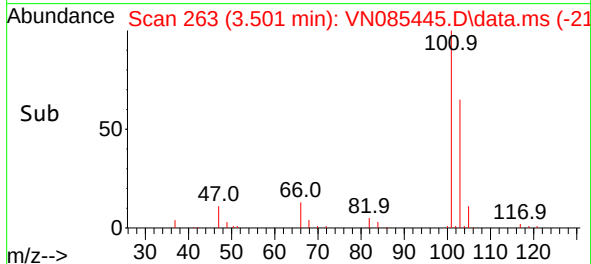
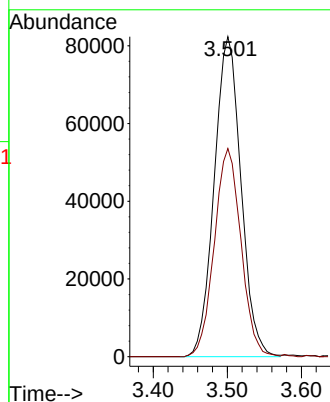
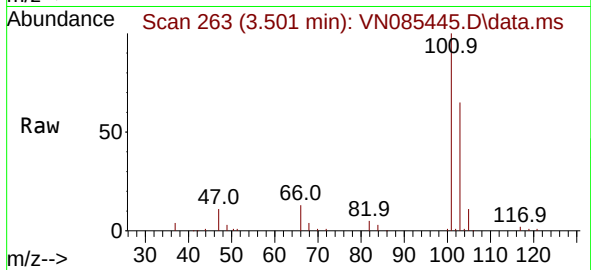




#7
 Trichlorofluoromethane
 Concen: 43.956 ug/l
 RT: 3.501 min Scan# 206
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

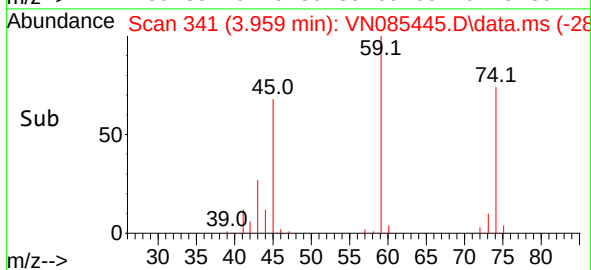
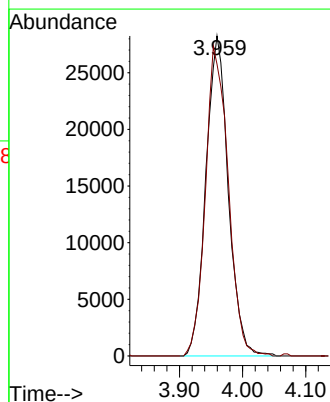
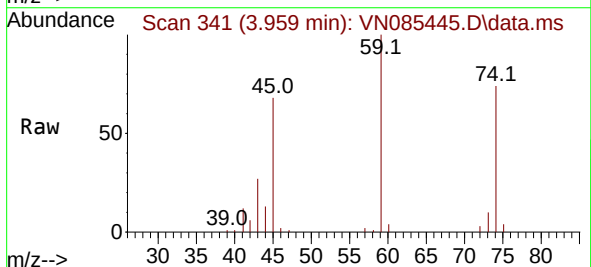
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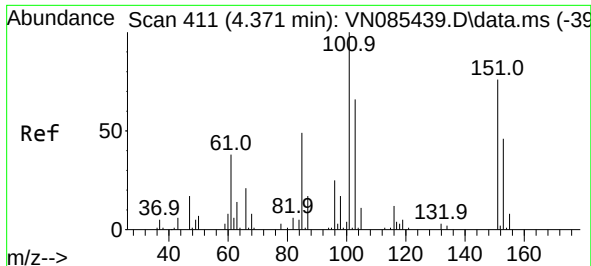
Tgt Ion:101 Resp: 206526
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.4 77.2



#8
 Diethyl Ether
 Concen: 42.846 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion: 74 Resp: 69545
 Ion Ratio Lower Upper
 74 100
 45 99.0 49.7 149.1

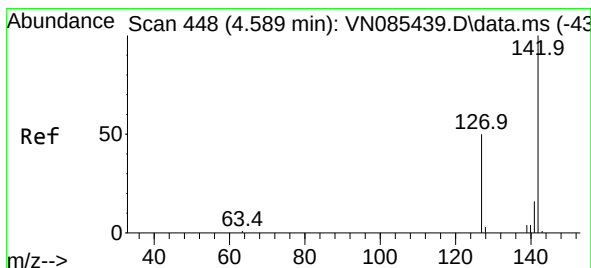
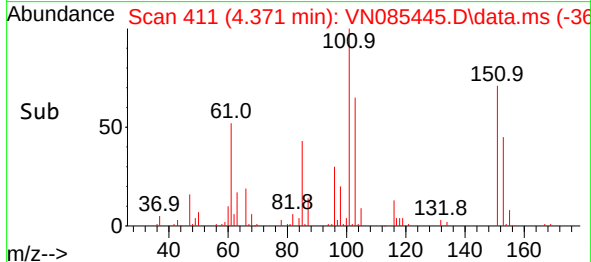
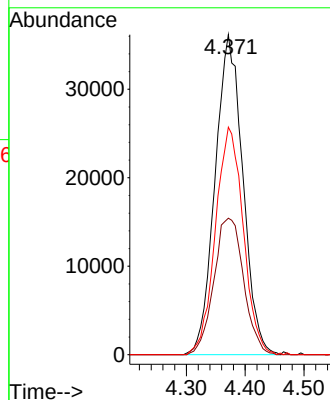
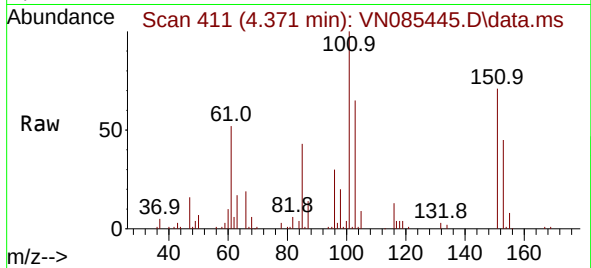




#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.706 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

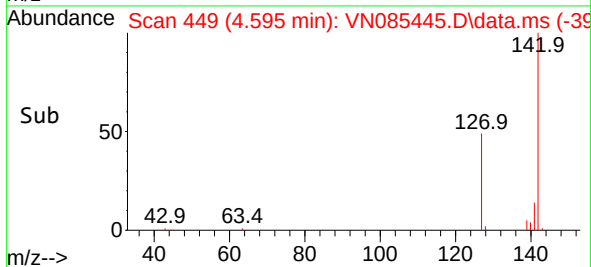
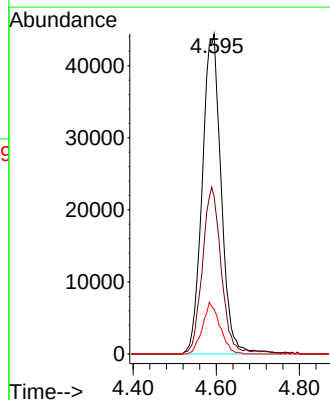
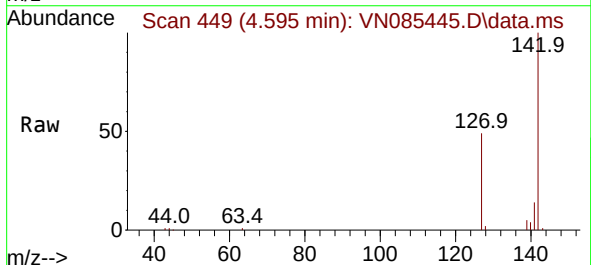
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

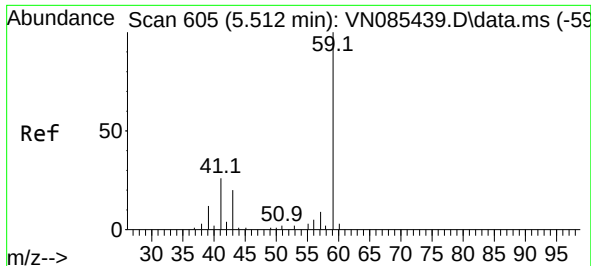
Tgt Ion:101 Resp: 118310
Ion Ratio Lower Upper
101 100
85 45.9 37.8 56.8
151 71.5 58.8 88.2



#10
Methyl Iodide
Concen: 46.259 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:142 Resp: 140190
Ion Ratio Lower Upper
142 100
127 49.2 40.3 60.5
141 13.9 12.8 19.2

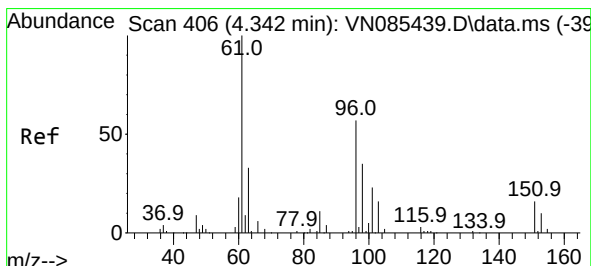
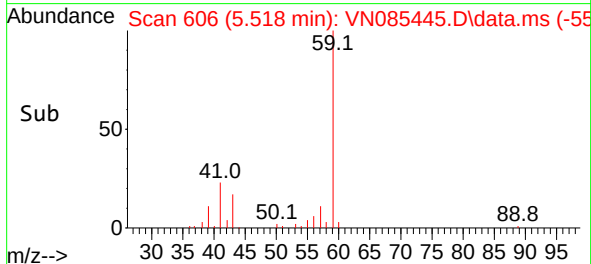
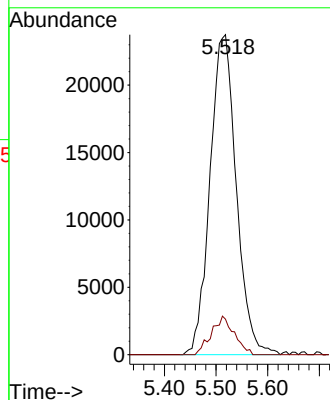
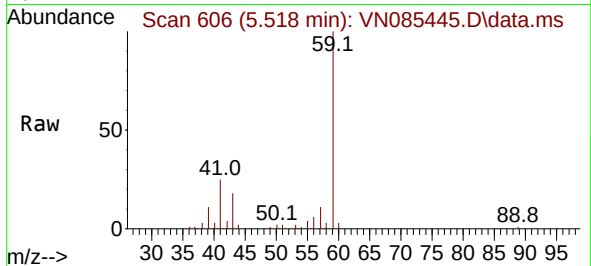




#11
Tert butyl alcohol
Concen: 206.633 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

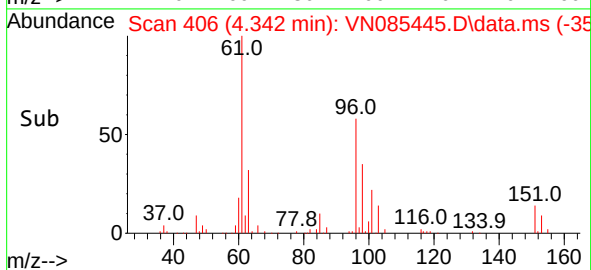
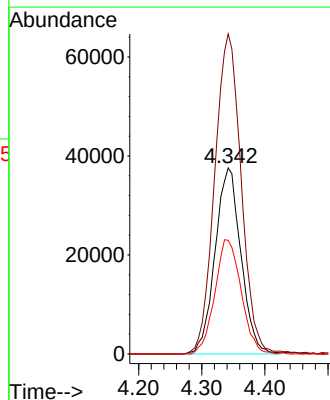
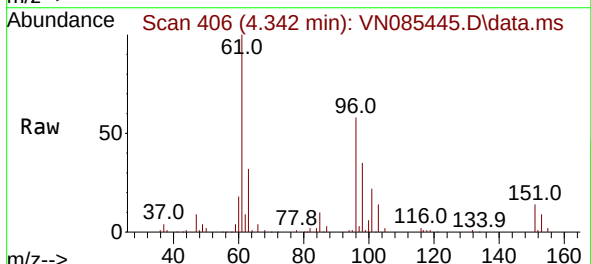
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

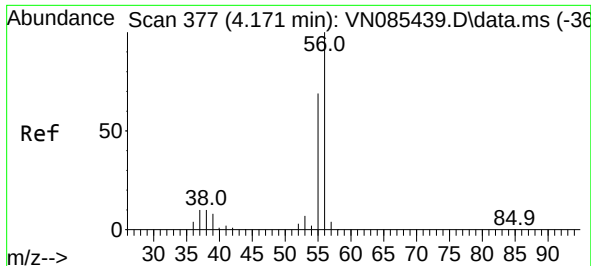
Tgt Ion: 59 Resp: 83933
Ion Ratio Lower Upper
59 100
57 10.4 8.6 13.0



#12
1,1-Dichloroethene
Concen: 45.317 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 96 Resp: 106880
Ion Ratio Lower Upper
96 100
61 171.9 141.0 211.4
98 61.0 49.0 73.6

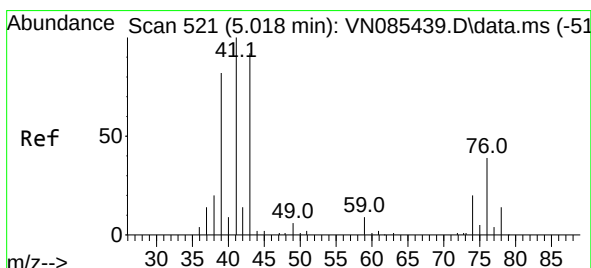
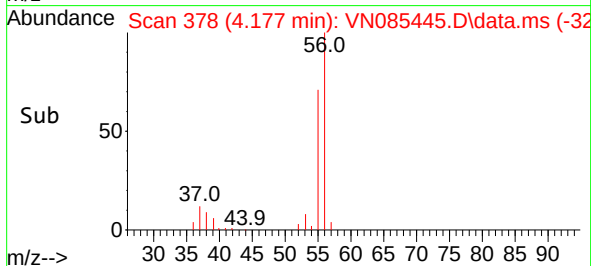
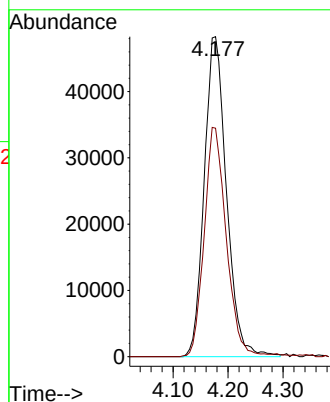
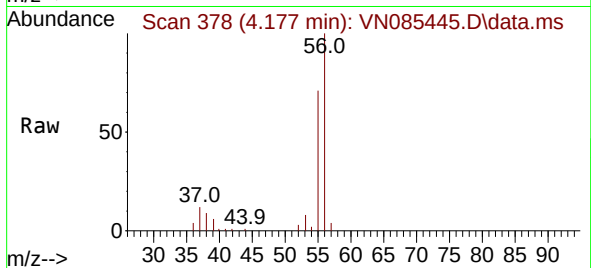




#13
Acrolein
Concen: 244.765 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

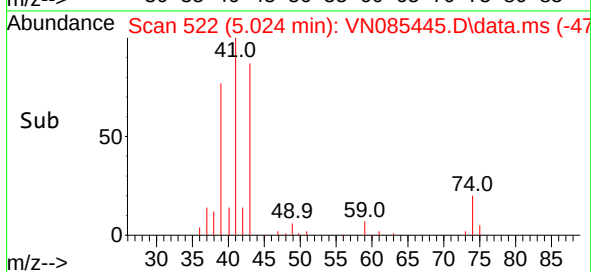
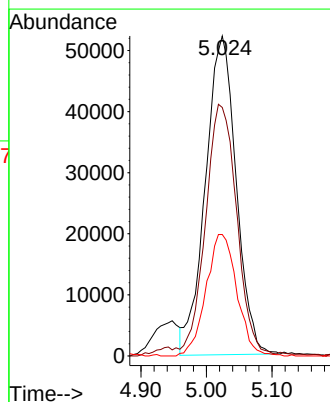
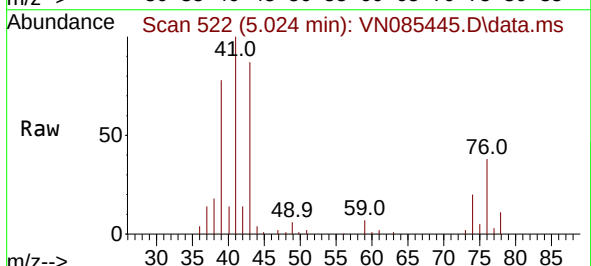
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

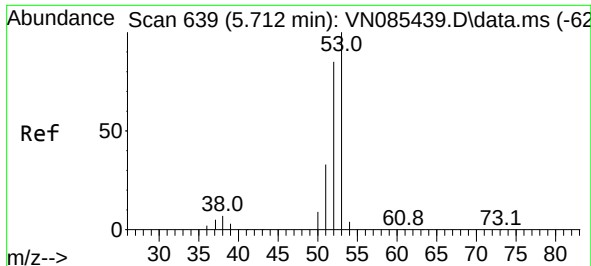
Tgt Ion: 56 Resp: 135720
Ion Ratio Lower Upper
56 100
55 70.9 56.3 84.5



#14
Allyl chloride
Concen: 44.501 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 170308
Ion Ratio Lower Upper
41 100
39 78.9 64.4 96.6
76 38.2 30.5 45.7

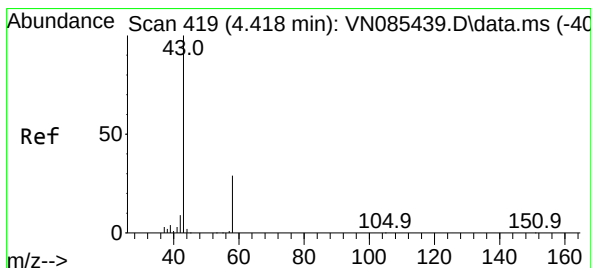
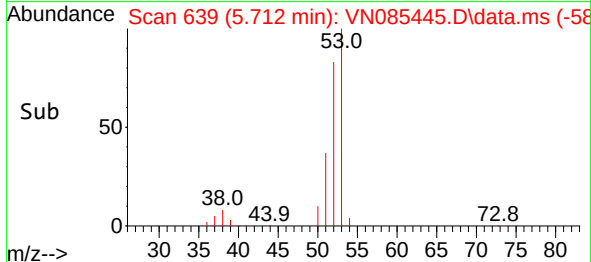
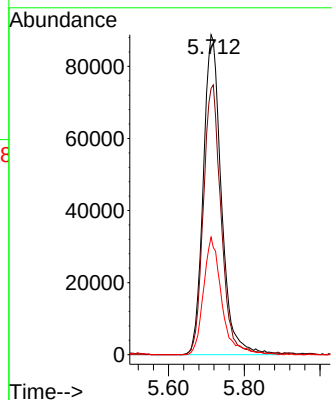
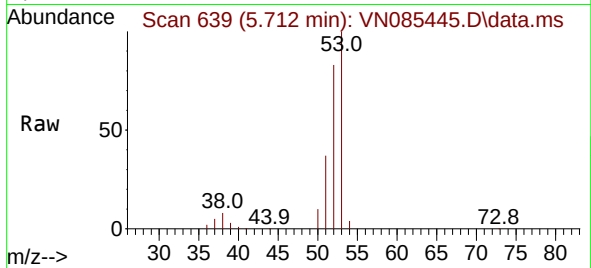




#15
Acrylonitrile
Concen: 227.920 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

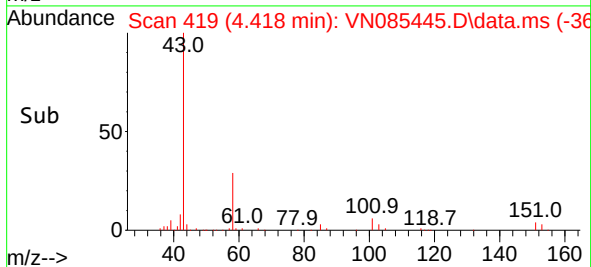
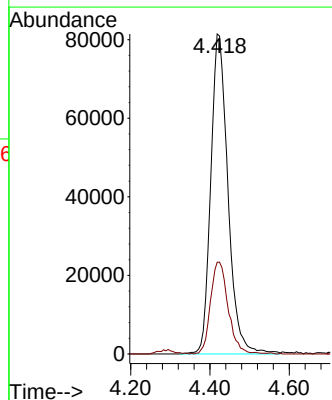
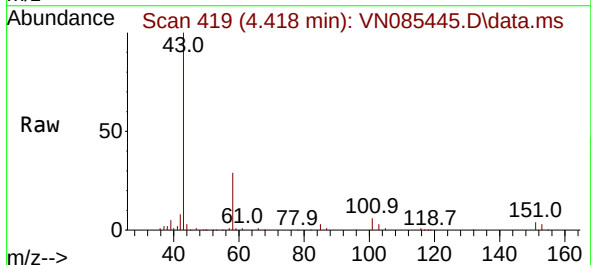
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

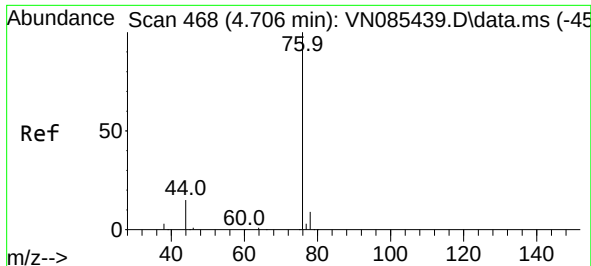
Tgt Ion: 53 Resp: 294062
Ion Ratio Lower Upper
53 100
52 82.7 65.5 98.3
51 36.8 29.8 44.8



#16
Acetone
Concen: 213.971 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 245248
Ion Ratio Lower Upper
43 100
58 28.4 23.8 35.6

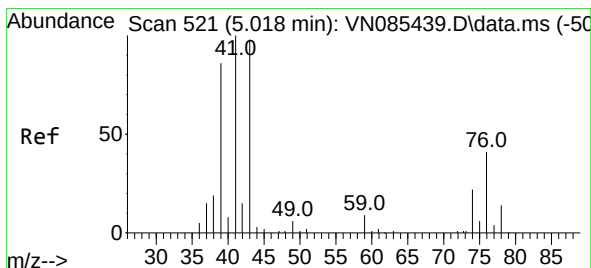
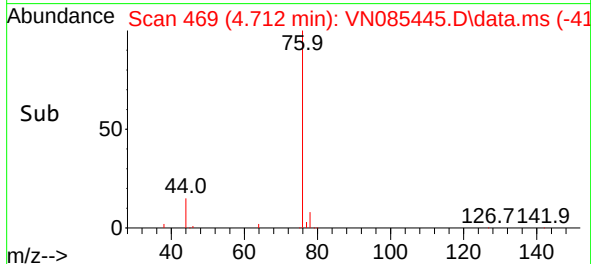
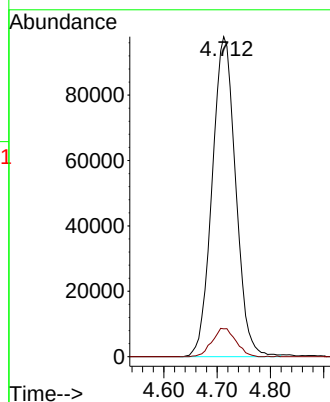
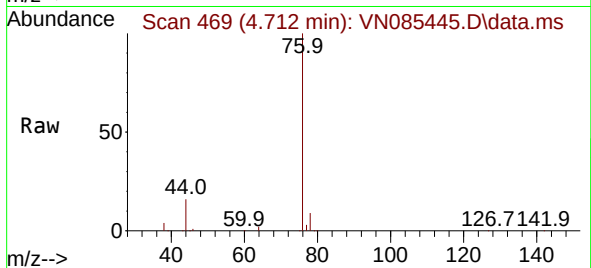




#17
Carbon Disulfide
Concen: 41.342 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

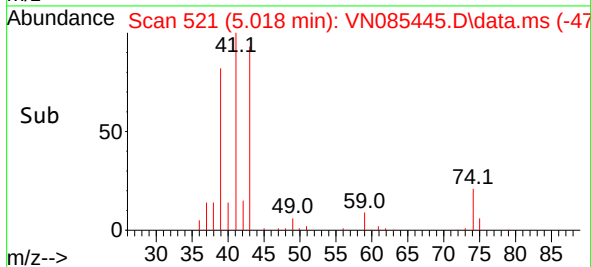
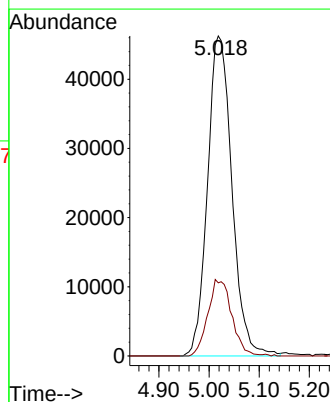
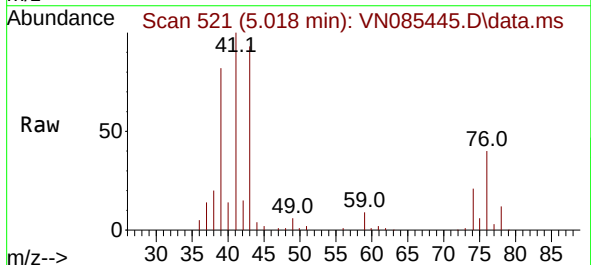
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

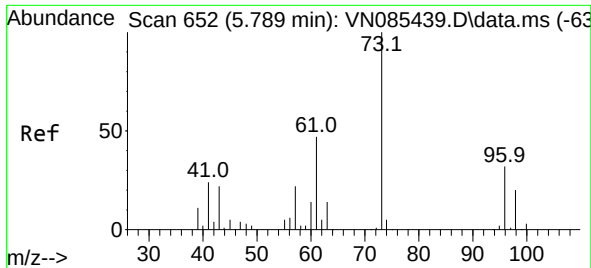
Tgt Ion: 76 Resp: 300215
Ion Ratio Lower Upper
76 100
78 8.7 6.9 10.3



#18
Methyl Acetate
Concen: 45.028 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 156938
Ion Ratio Lower Upper
43 100
74 23.4 18.6 28.0

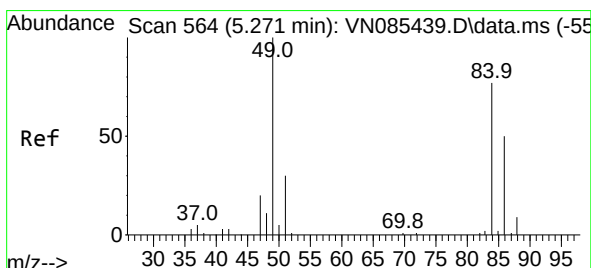
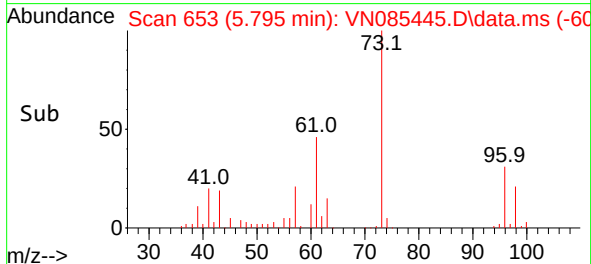
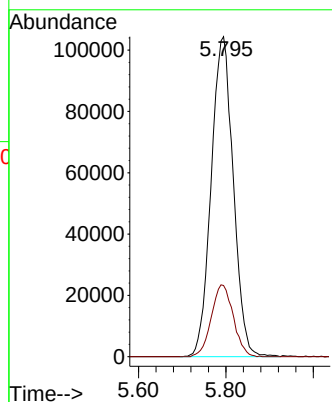
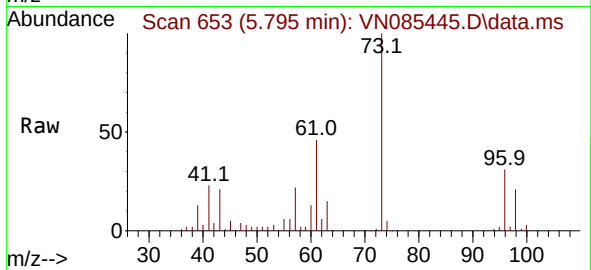




#19
Methyl tert-butyl Ether
Concen: 47.768 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

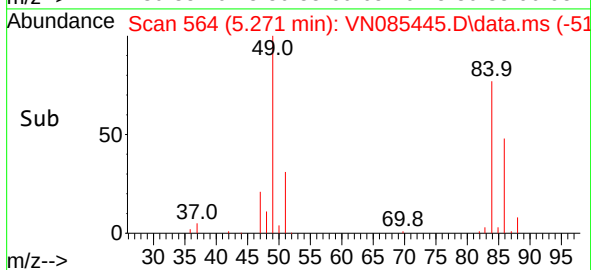
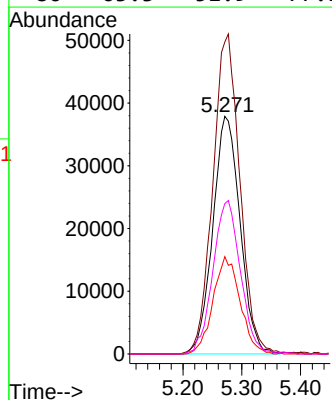
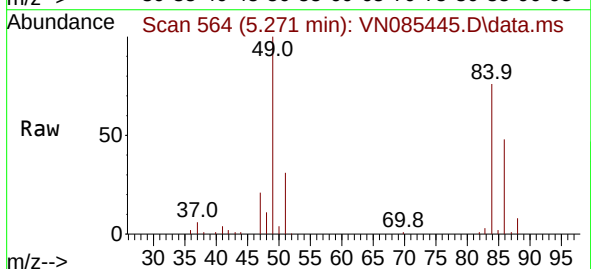
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN011425

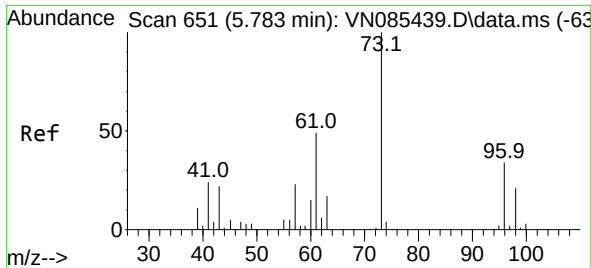
Tgt Ion: 73 Resp: 365819
Ion Ratio Lower Upper
73 100
57 22.3 17.8 26.8



#20
Methylene Chloride
Concen: 43.017 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 84 Resp: 122059
Ion Ratio Lower Upper
84 100
49 131.3 104.1 156.1
51 41.0 31.0 46.4
86 63.3 51.9 77.9

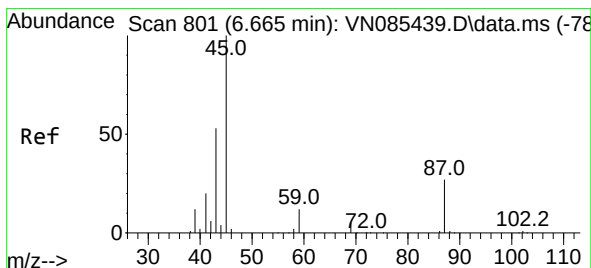
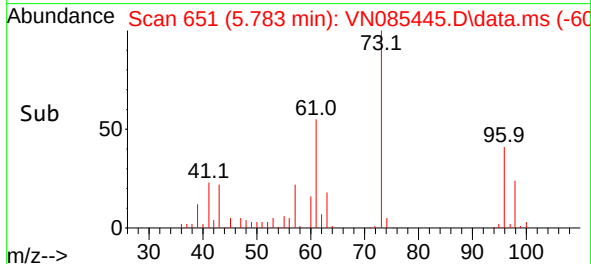
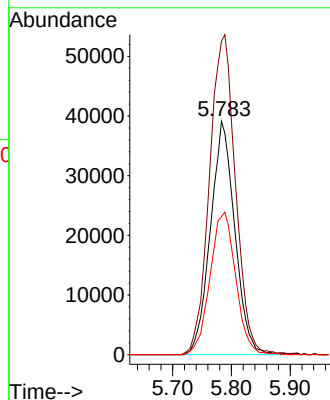
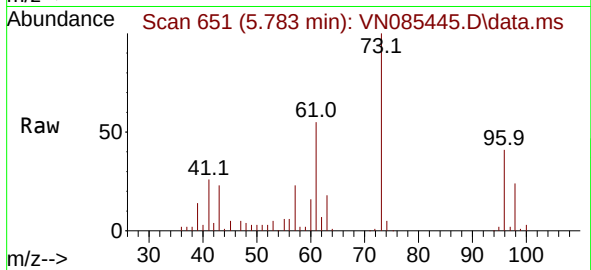




#21
trans-1,2-Dichloroethene
Concen: 44.672 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

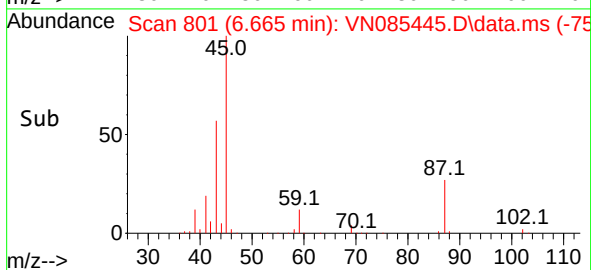
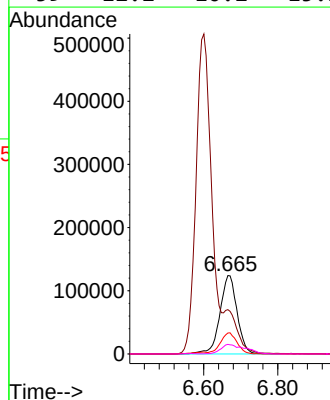
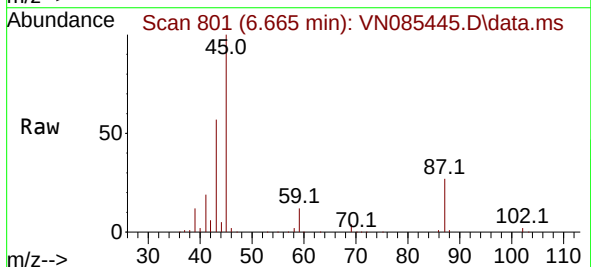
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN011425

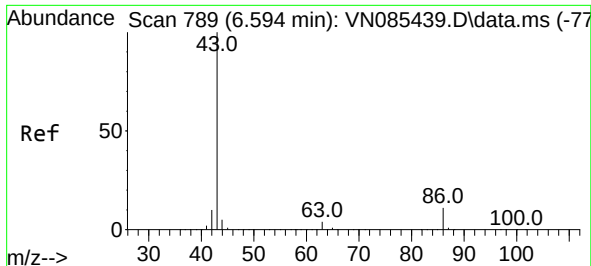
Tgt Ion: 96 Resp: 112597
Ion Ratio Lower Upper
96 100
61 134.3 115.7 173.5
98 59.1 49.8 74.8



#22
Diisopropyl ether
Concen: 46.996 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 45 Resp: 399206
Ion Ratio Lower Upper
45 100
43 56.0 45.0 67.6
87 26.8 21.8 32.8
59 12.2 10.2 15.2

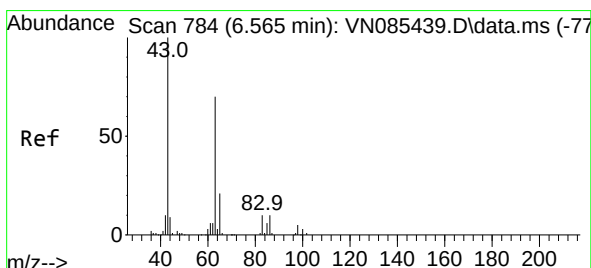
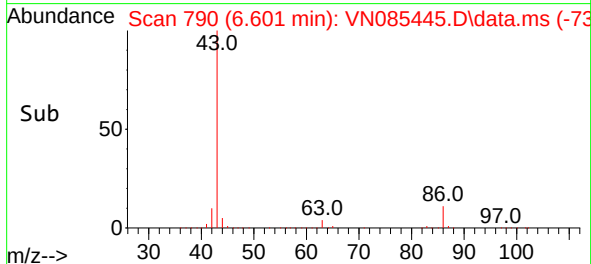
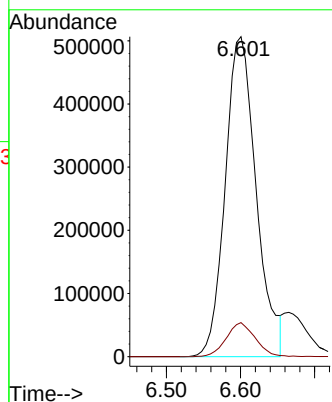
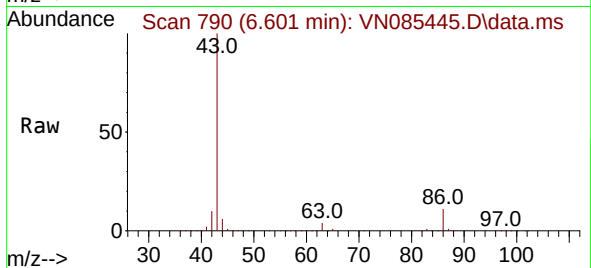




#23
 Vinyl Acetate
 Concen: 247.459 ug/l
 RT: 6.601 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

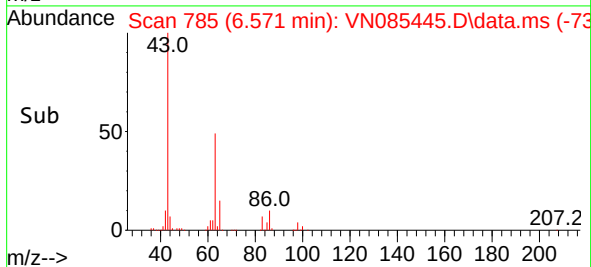
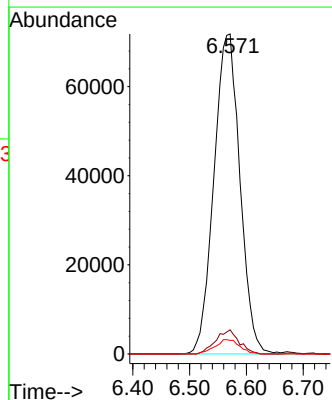
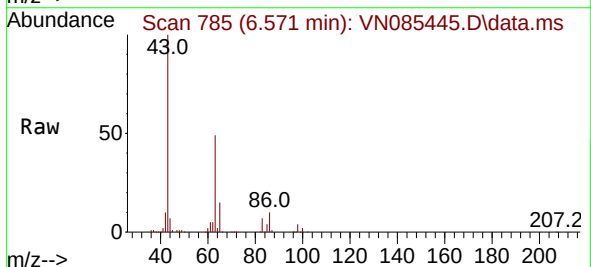
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

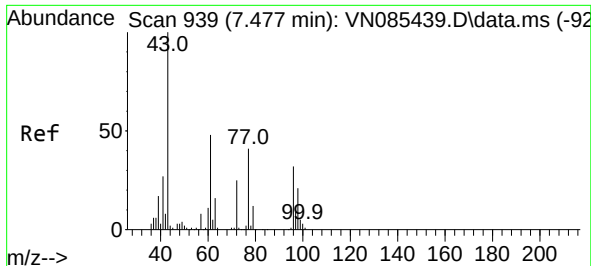
Tgt Ion: 43 Resp: 1471068
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 44.114 ug/l
 RT: 6.571 min Scan# 785
 Delta R.T. 0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion: 63 Resp: 228489
 Ion Ratio Lower Upper
 63 100
 98 7.5 3.3 9.8
 100 4.2 2.0 6.0

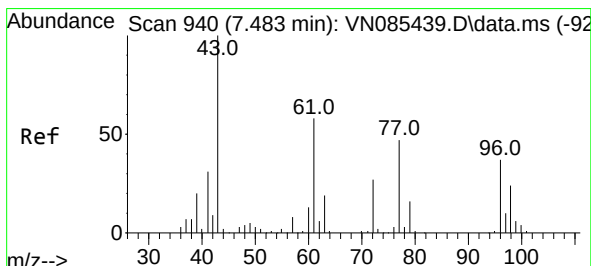
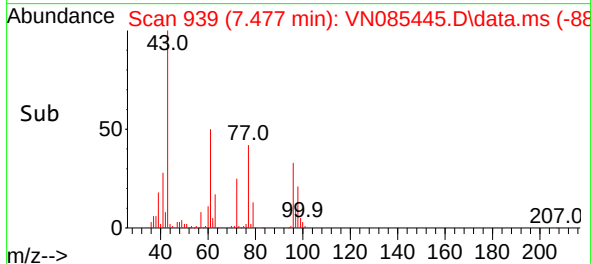
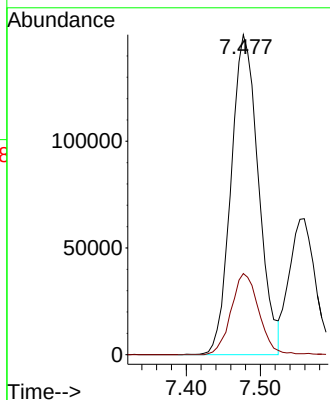
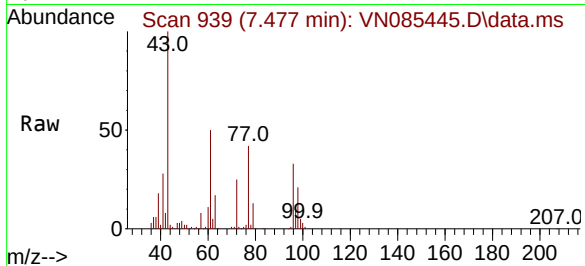




#25
2-Butanone
Concen: 228.924 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

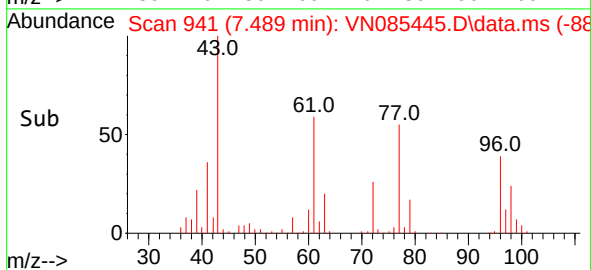
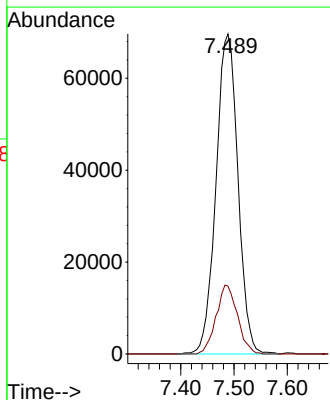
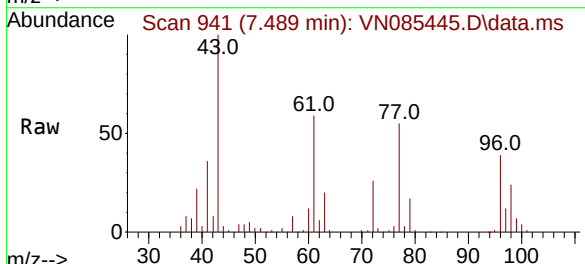
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

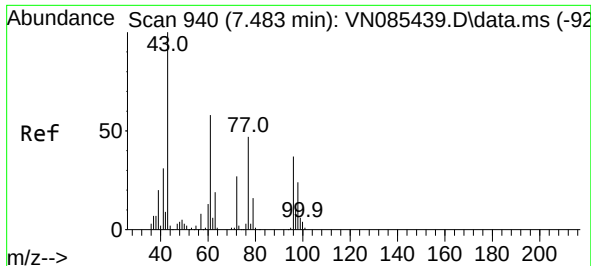
Tgt Ion: 43 Resp: 386125
Ion Ratio Lower Upper
43 100
72 25.4 20.2 30.4



#26
2,2-Dichloropropane
Concen: 47.593 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 77 Resp: 199303
Ion Ratio Lower Upper
77 100
97 20.9 10.7 32.1

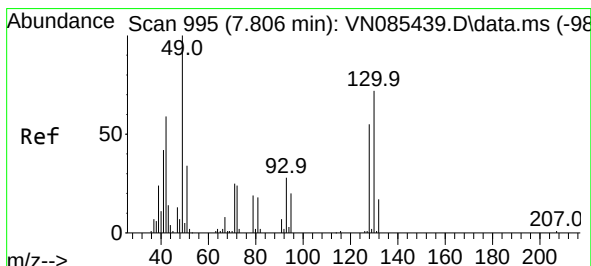
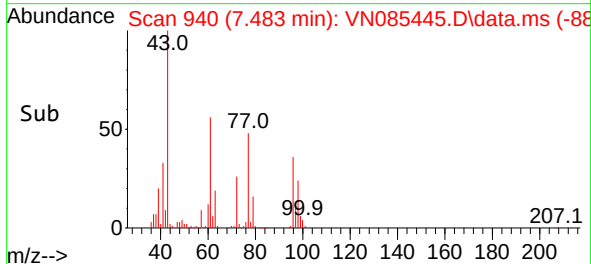
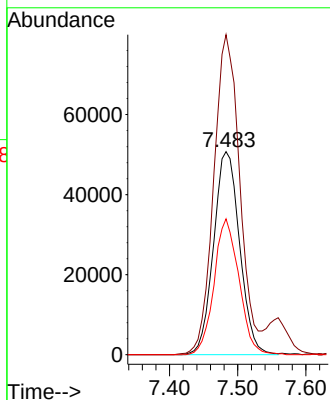
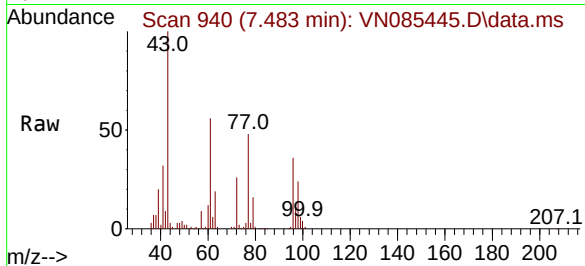




#27
 cis-1,2-Dichloroethene
 Concen: 45.446 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

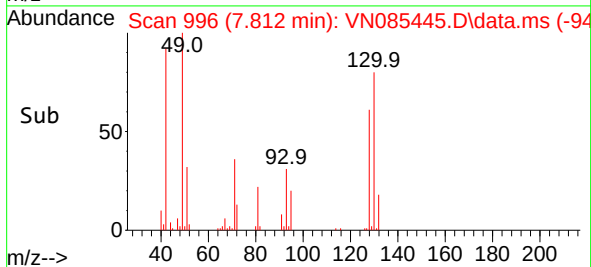
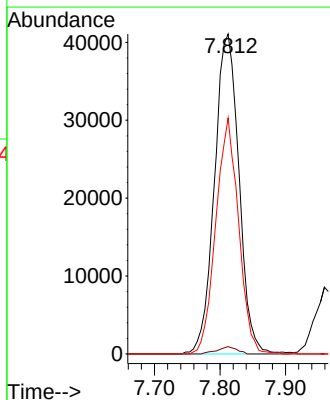
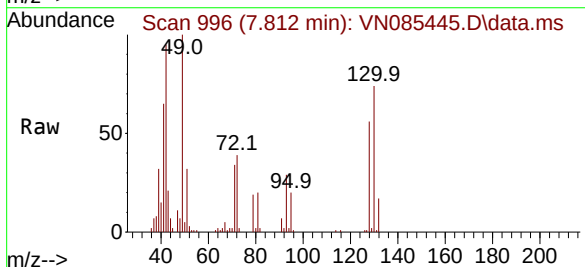
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

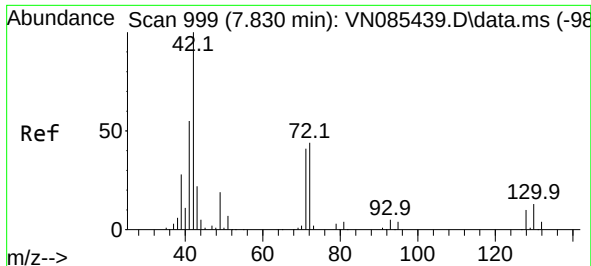
Tgt Ion: 96 Resp: 134920
 Ion Ratio Lower Upper
 96 100
 61 158.0 0.0 311.8
 98 64.1 0.0 126.0



#28
 Bromochloromethane
 Concen: 44.122 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion: 49 Resp: 106323
 Ion Ratio Lower Upper
 49 100
 129 1.8 0.0 4.4
 130 68.6 55.0 82.4





#29

Tetrahydrofuran

Concen: 239.065 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVFN011425

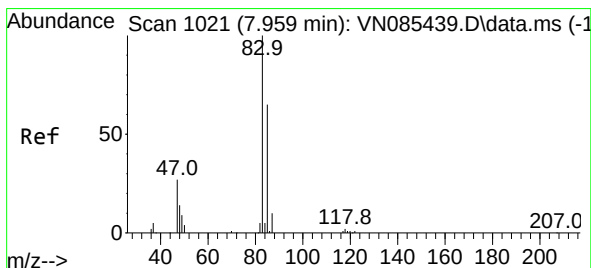
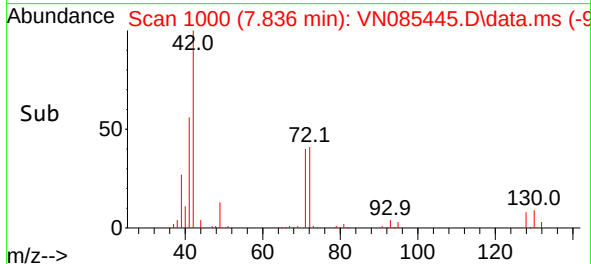
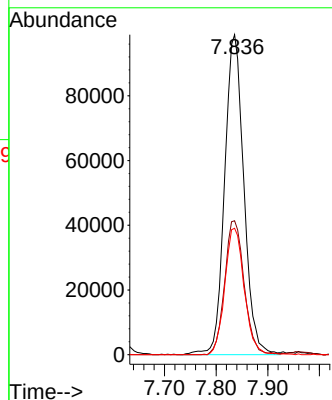
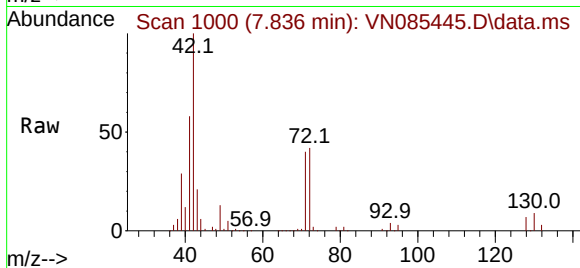
Tgt Ion: 42 Resp: 255650

Ion Ratio Lower Upper

42 100

72 42.5 34.2 51.2

71 39.9 32.5 48.7



#30

Chloroform

Concen: 44.071 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085445.D

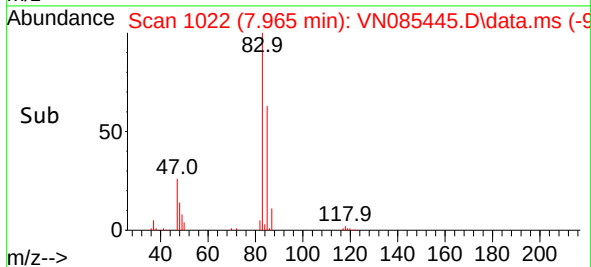
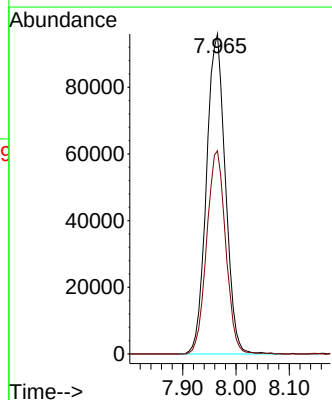
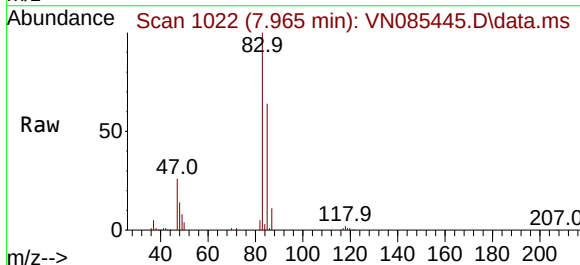
Acq: 14 Jan 2025 18:06

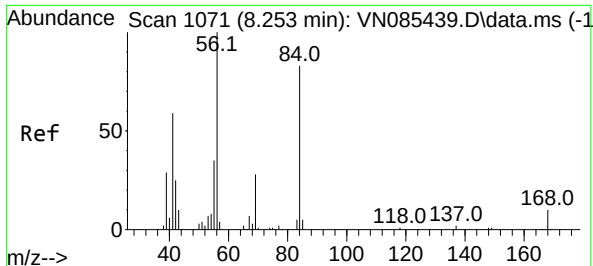
Tgt Ion: 83 Resp: 235923

Ion Ratio Lower Upper

83 100

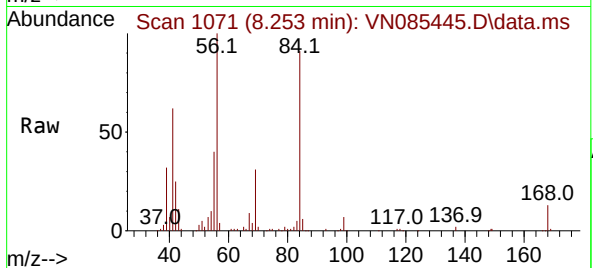
85 63.5 51.8 77.6



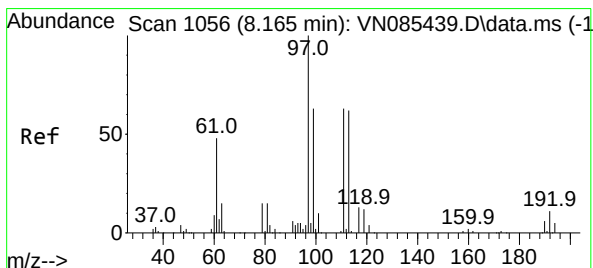
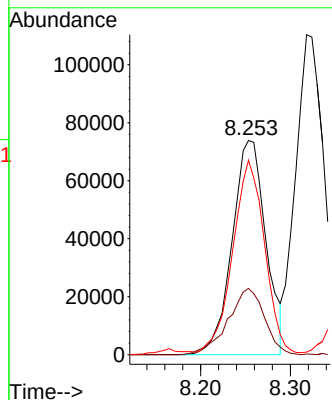
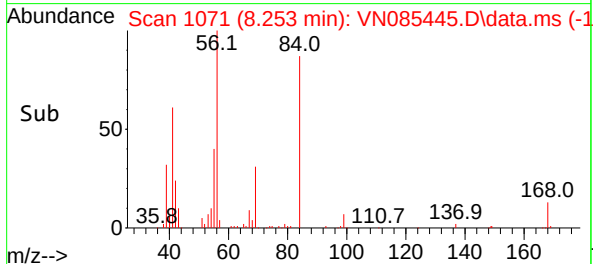


#31
Cyclohexane
Concen: 42.878 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

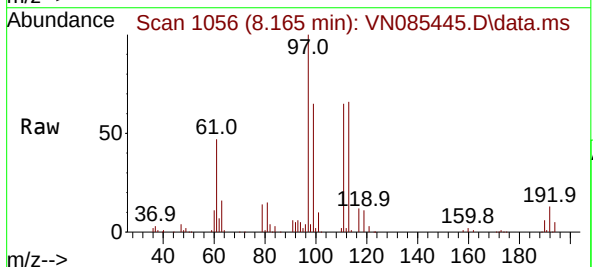
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



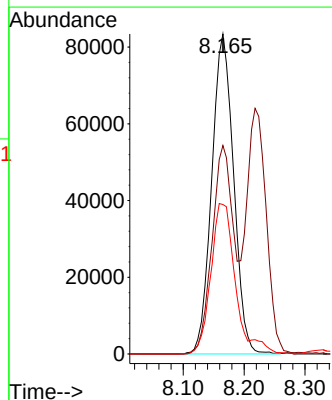
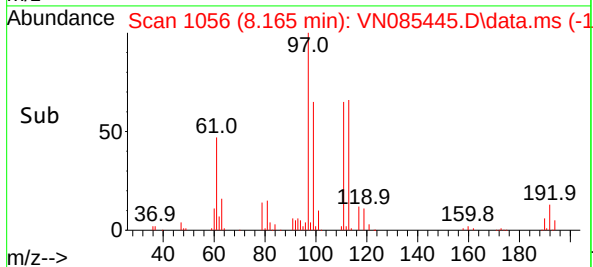
Tgt Ion: 56 Resp: 193034
Ion Ratio Lower Upper
56 100
69 30.5 22.2 33.4
84 89.4 66.4 99.6

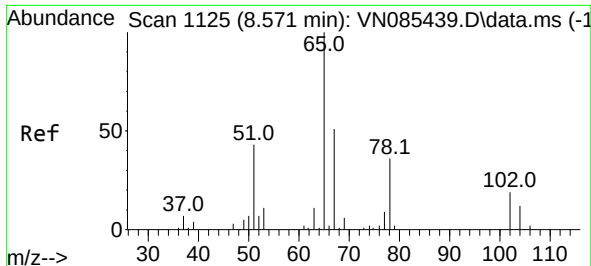


#32
1,1,1-Trichloroethane
Concen: 44.332 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06



Tgt Ion: 97 Resp: 208172
Ion Ratio Lower Upper
97 100
99 61.8 49.8 74.6
61 52.8 41.4 62.2

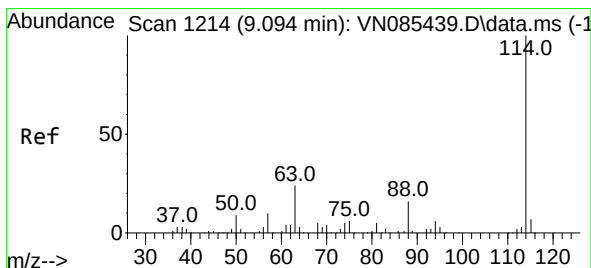
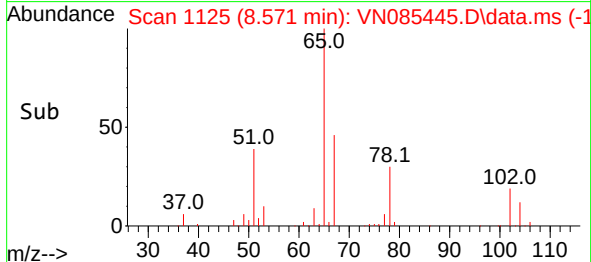
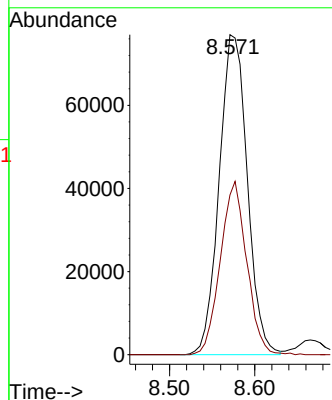
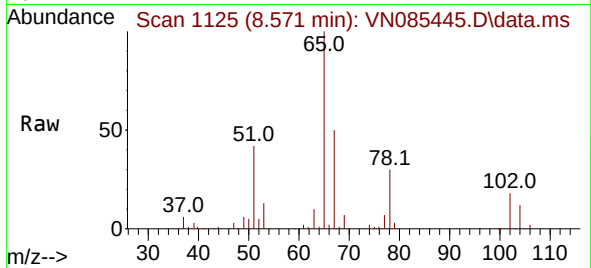




#33
 1,2-Dichloroethane-d4
 Concen: 49.782 ug/l
 RT: 8.571 min Scan# 1125
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

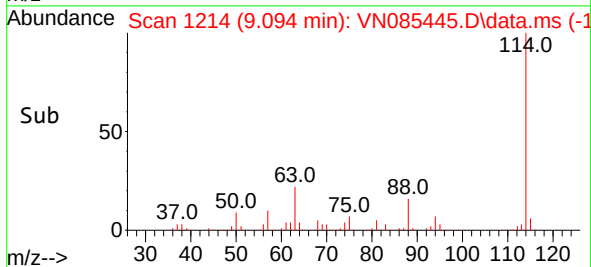
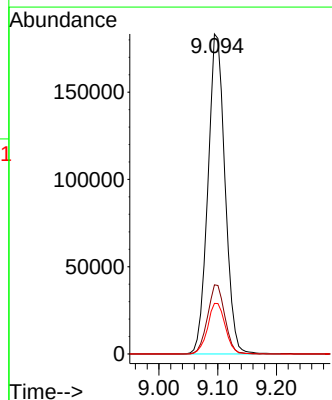
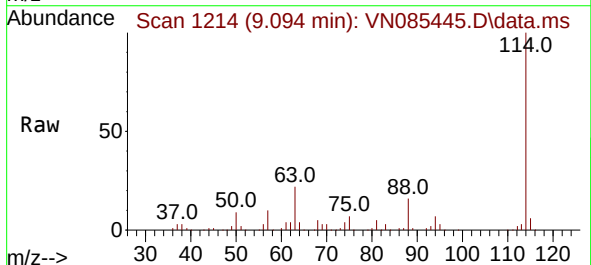
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

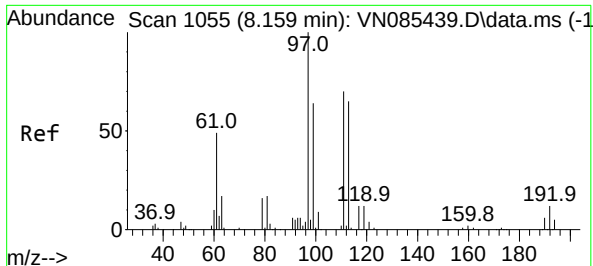
Tgt Ion: 65 Resp: 176594
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.094 min Scan# 1214
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

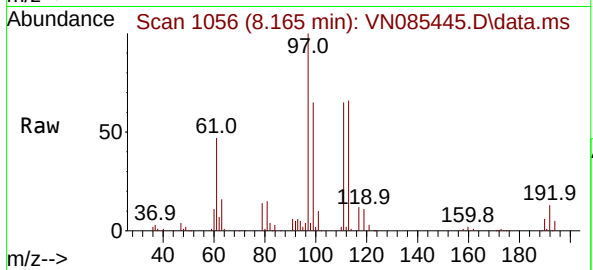
Tgt Ion: 114 Resp: 370487
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 47.6
 88 15.8 0.0 32.6



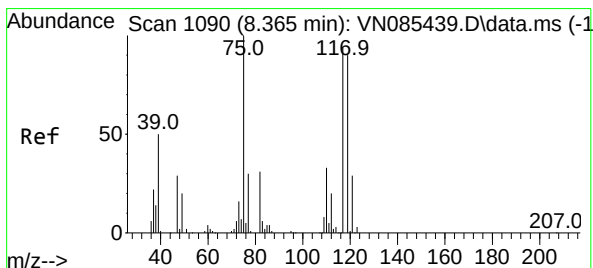
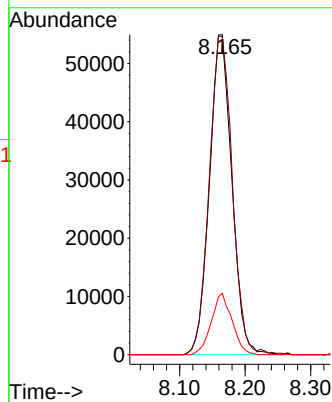
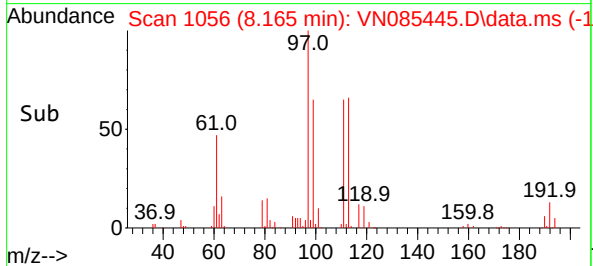


#35
Dibromofluoromethane
Concen: 50.768 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

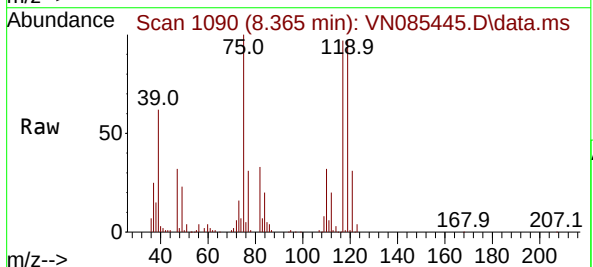
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425



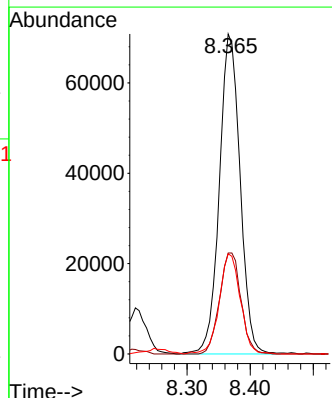
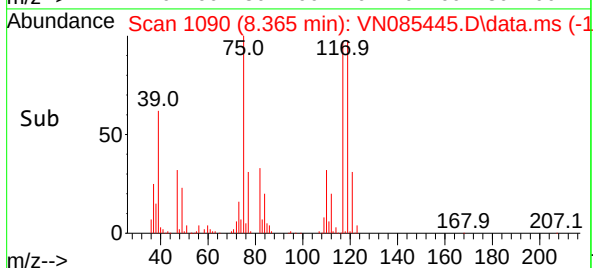
Tgt Ion:113 Resp: 130487
Ion Ratio Lower Upper
113 100
111 102.5 82.7 124.1
192 17.7 14.3 21.5

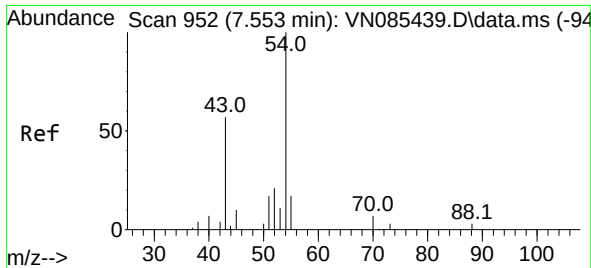


#36
1,1-Dichloropropene
Concen: 44.863 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06



Tgt Ion: 75 Resp: 161834
Ion Ratio Lower Upper
75 100
110 32.4 16.5 49.5
77 31.8 24.4 36.6

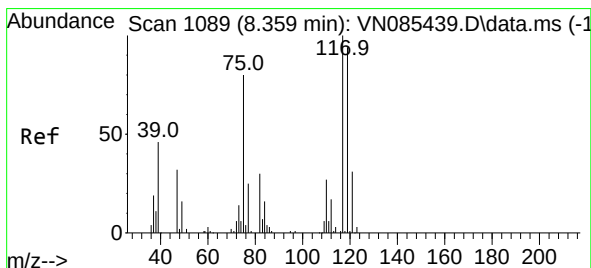
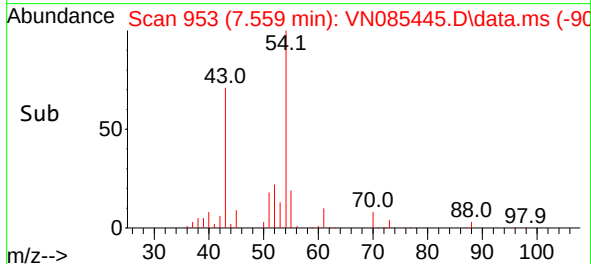
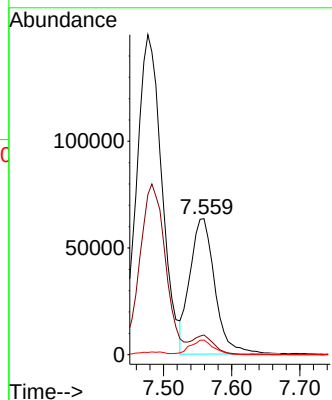
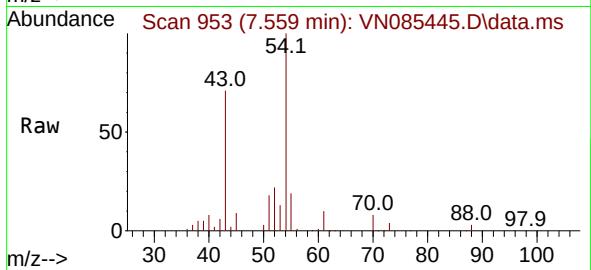




#37
Ethyl Acetate
Concen: 44.123 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

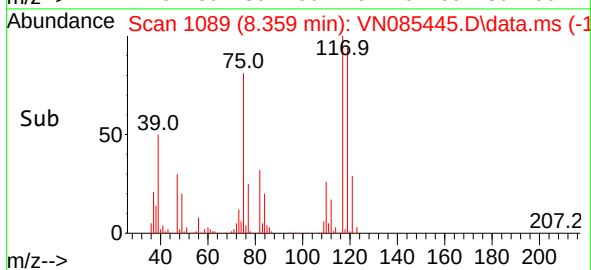
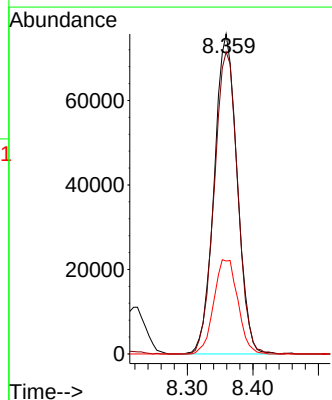
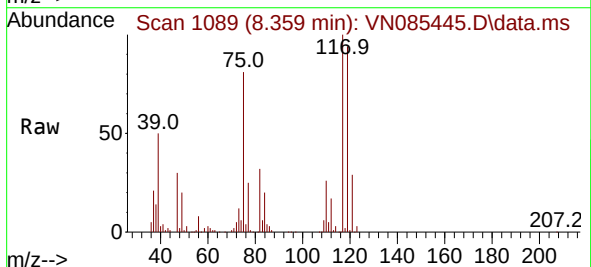
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

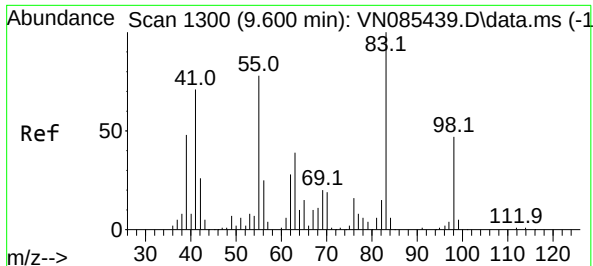
Tgt Ion: 43 Resp: 160656
Ion Ratio Lower Upper
43 100
61 11.9 10.9 16.3
70 10.2 7.5 11.3



#38
Carbon Tetrachloride
Concen: 44.456 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 117 Resp: 183592
Ion Ratio Lower Upper
117 100
119 94.4 75.4 113.2
121 29.0 24.6 37.0





#39

Methylcyclohexane

Concen: 49.687 ug/l

RT: 9.600 min Scan# 11300

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

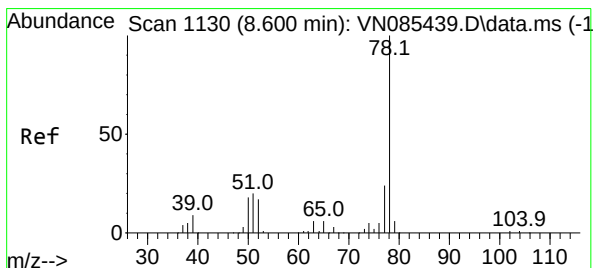
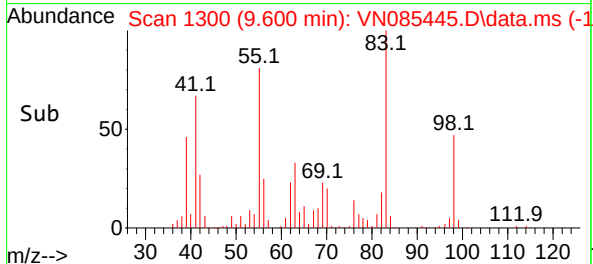
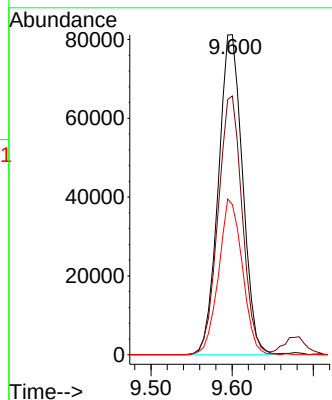
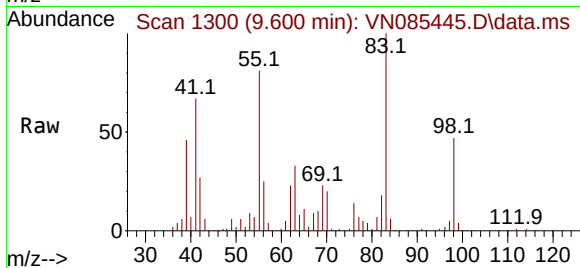
Tgt Ion: 83 Resp: 168431

Ion Ratio Lower Upper

83 100

55 80.9 62.6 94.0

98 46.9 37.7 56.5



#40

Benzene

Concen: 45.657 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085445.D

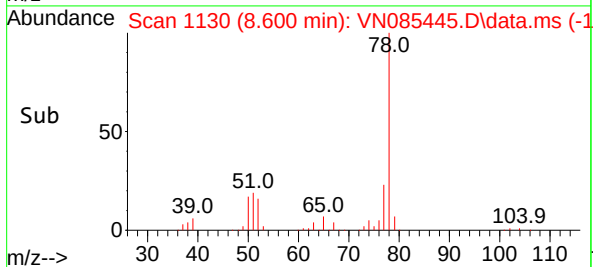
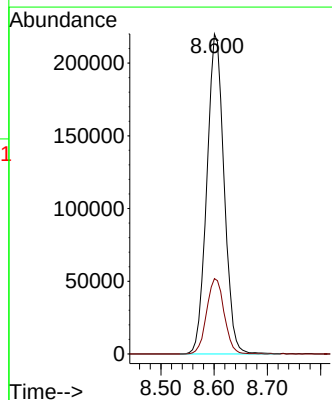
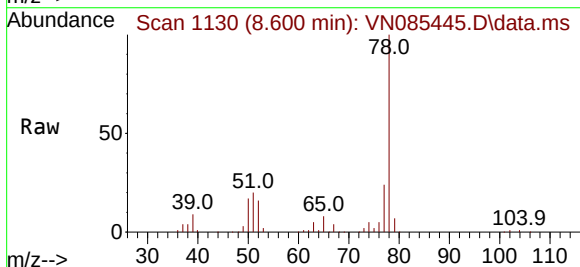
Acq: 14 Jan 2025 18:06

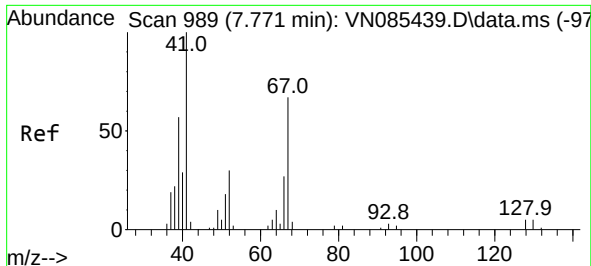
Tgt Ion: 78 Resp: 494871

Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.6



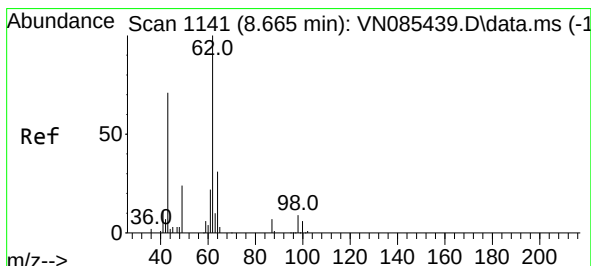
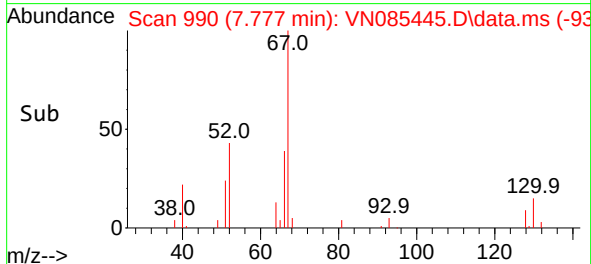
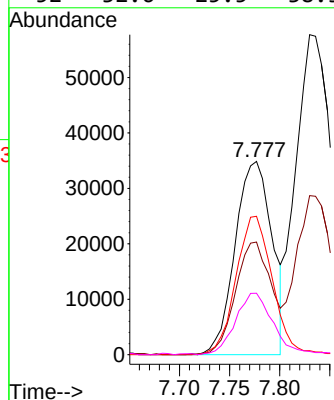
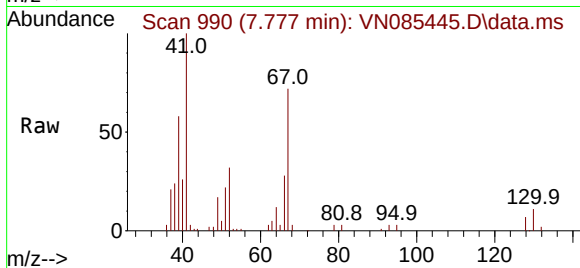


#41
Methacrylonitrile
Concen: 47.155 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion: 41 Resp: 89326

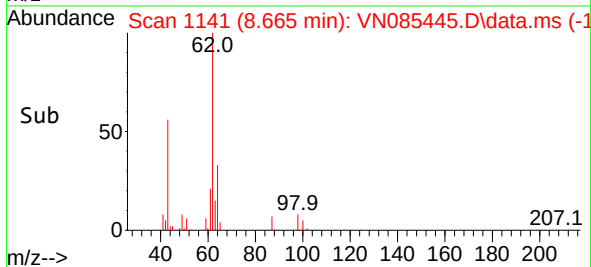
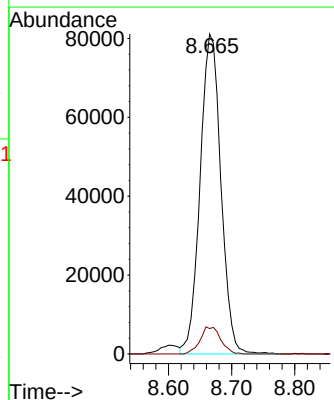
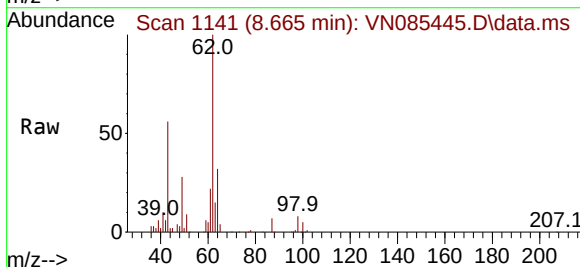
Ion	Ratio	Lower	Upper
41	100		
39	56.6	46.0	69.0
67	70.9	57.4	86.2
52	32.6	25.5	38.3

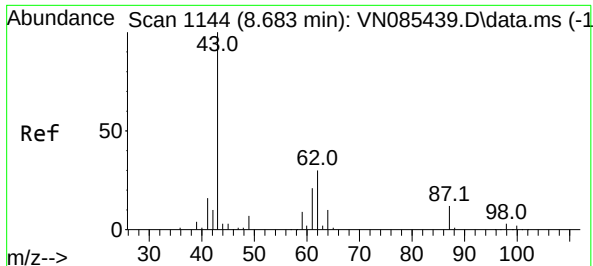


#42
1,2-Dichloroethane
Concen: 45.481 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 62 Resp: 185663

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0

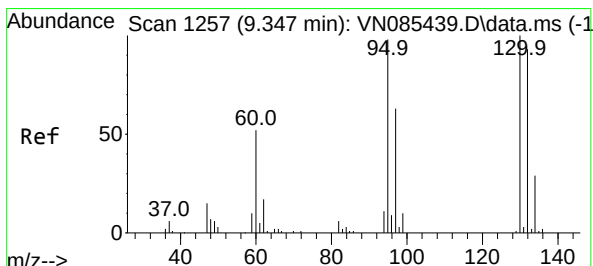
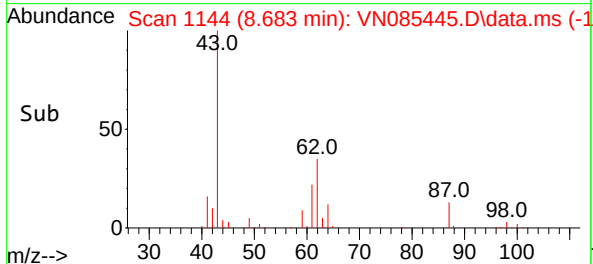
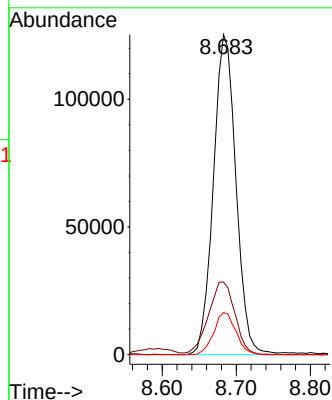
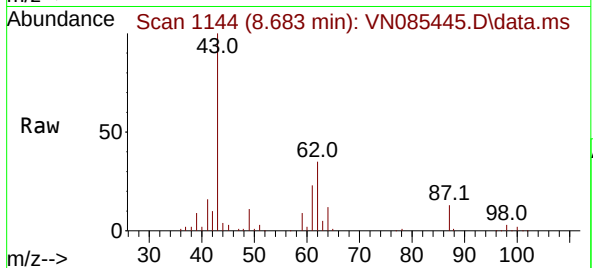




#43
Isopropyl Acetate
Concen: 45.440 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

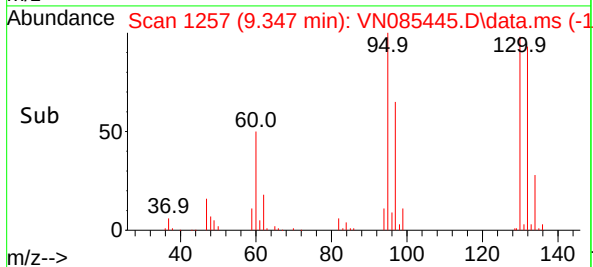
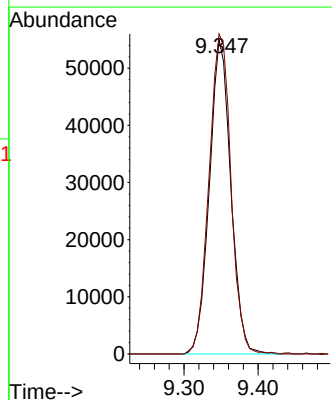
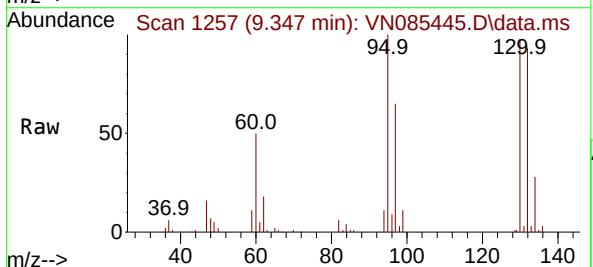
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

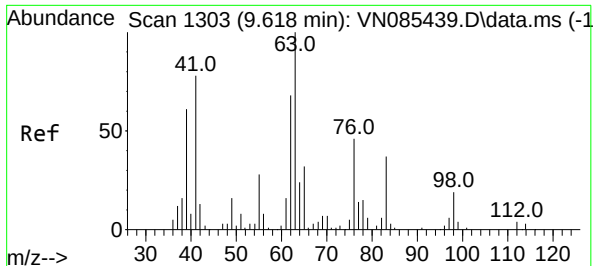
Tgt Ion: 43 Resp: 265107
Ion Ratio Lower Upper
43 100
61 26.7 20.7 31.1
87 12.9 9.8 14.8



#44
Trichloroethene
Concen: 43.622 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 130 Resp: 110058
Ion Ratio Lower Upper
130 100
95 101.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 44.744 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

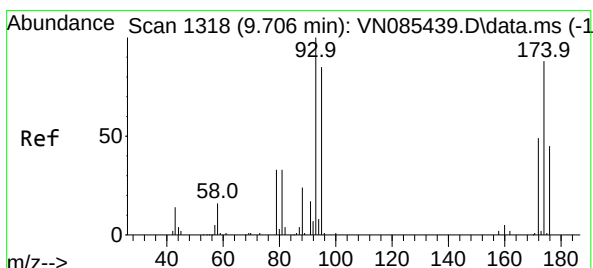
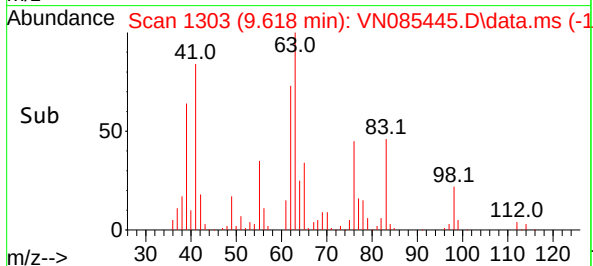
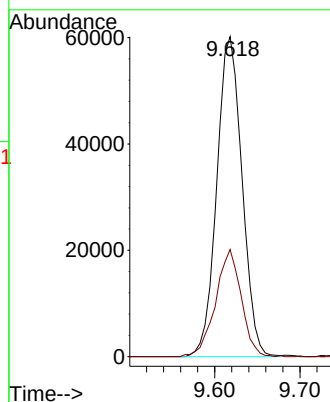
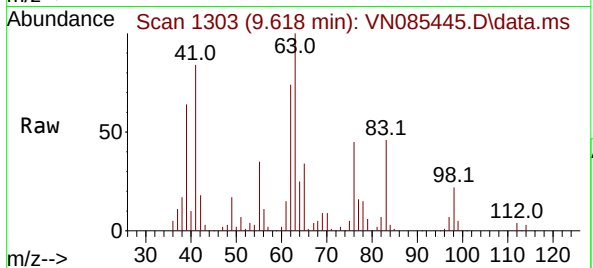
ICVVN011425

Tgt Ion: 63 Resp: 123876

Ion Ratio Lower Upper

63 100

65 33.5 25.6 38.4



#46

Dibromomethane

Concen: 44.214 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.006 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

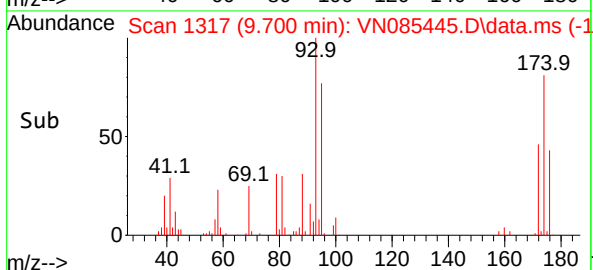
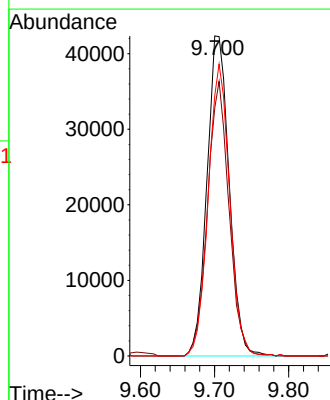
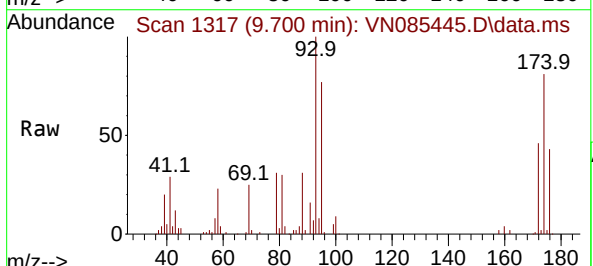
Tgt Ion: 93 Resp: 88325

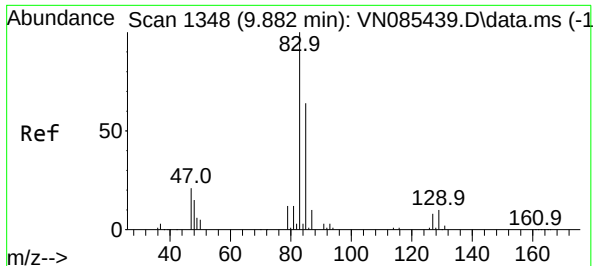
Ion Ratio Lower Upper

93 100

95 82.9 64.7 97.1

174 88.0 69.0 103.4

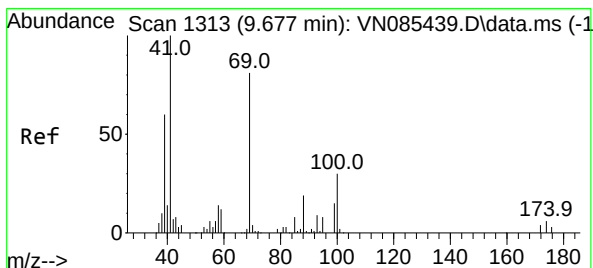
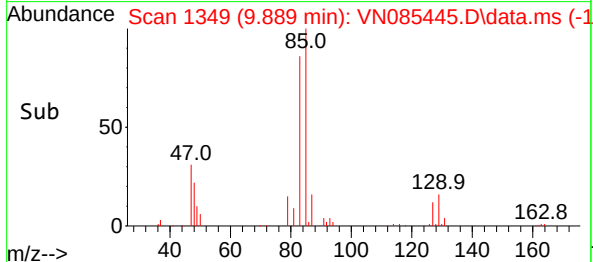
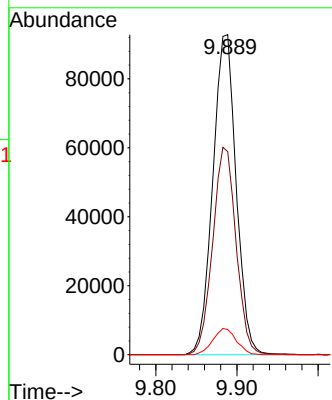
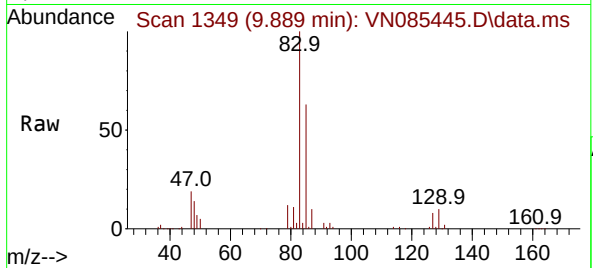




#47
Bromodichloromethane
Concen: 45.655 ug/l
RT: 9.889 min Scan# 1349
Delta R.T. 0.007 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

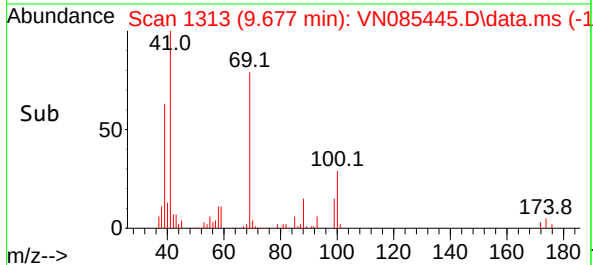
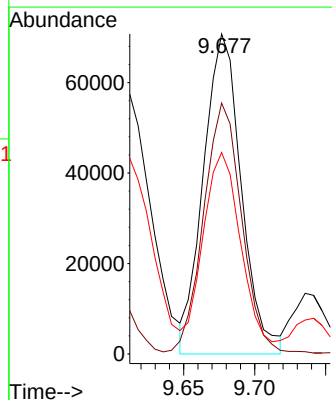
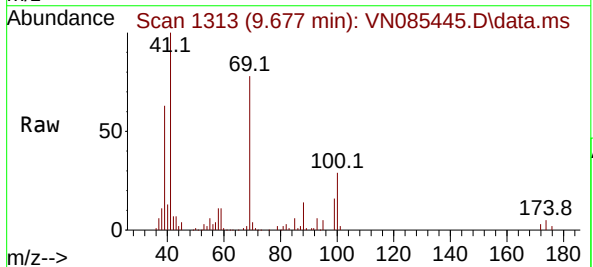
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

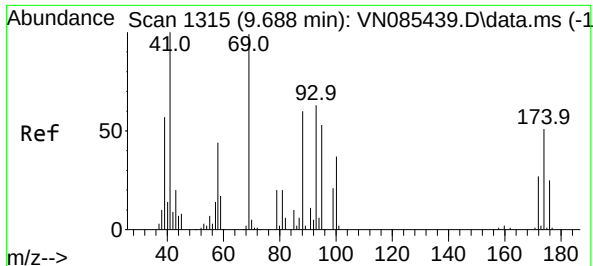
Tgt Ion: 83 Resp: 185808
Ion Ratio Lower Upper
83 100
85 63.5 51.2 76.8
127 7.8 6.5 9.7



#48
Methyl methacrylate
Concen: 49.948 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 41 Resp: 131142
Ion Ratio Lower Upper
41 100
69 78.6 64.7 97.1
39 63.3 49.0 73.6





#49

1,4-Dioxane

Concen: 792.760 ug/l

RT: 9.689 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

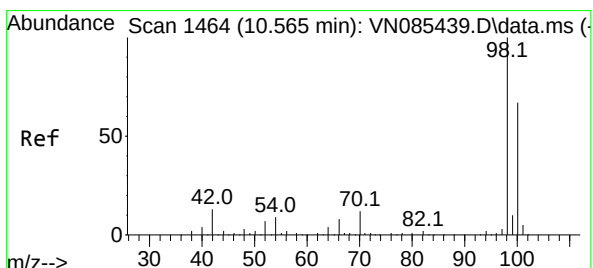
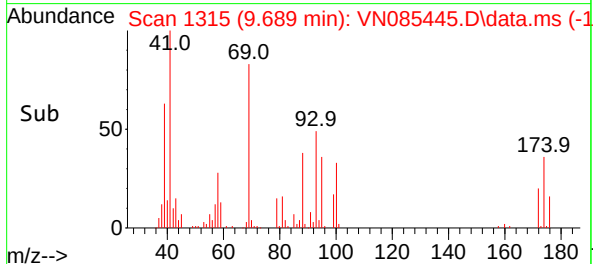
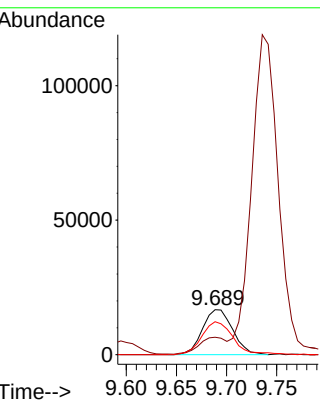
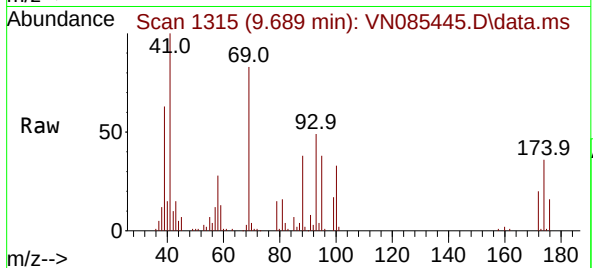
Tgt Ion: 88 Resp: 35051

Ion Ratio Lower Upper

88 100

43 33.8 26.6 39.8

58 76.1 59.5 89.3



#50

Toluene-d8

Concen: 52.302 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085445.D

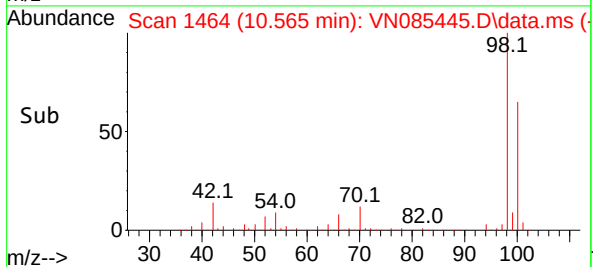
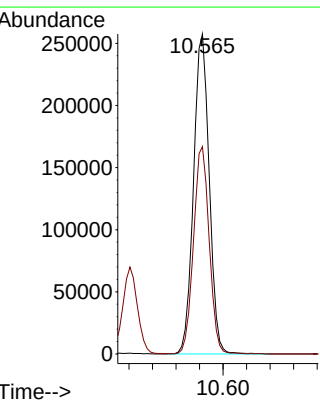
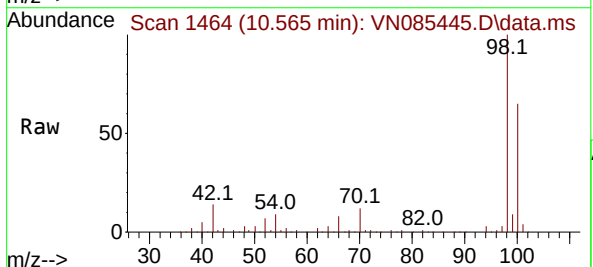
Acq: 14 Jan 2025 18:06

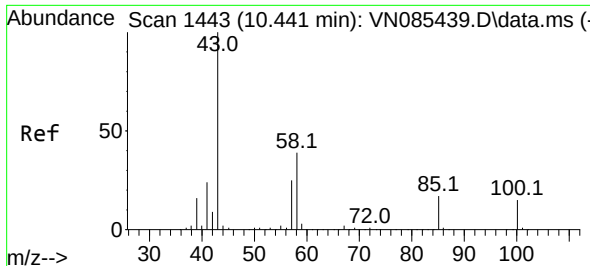
Tgt Ion: 98 Resp: 477630

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.4

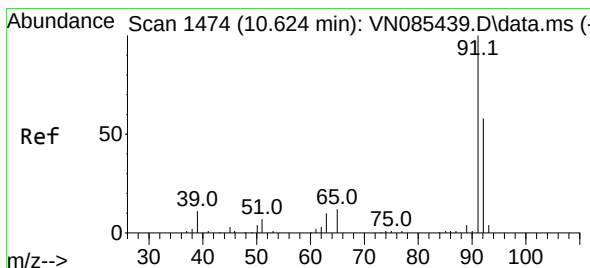
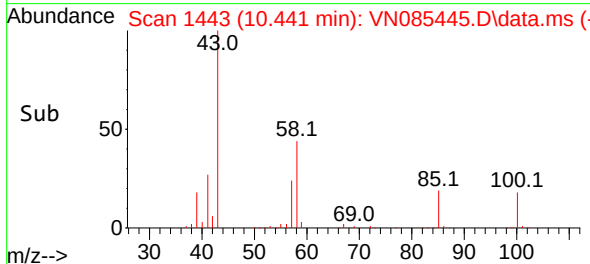
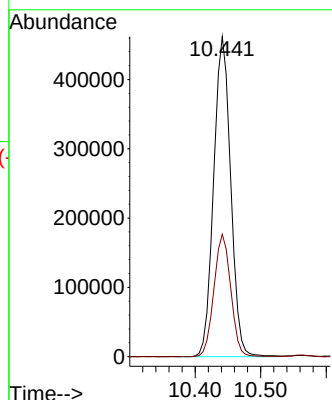
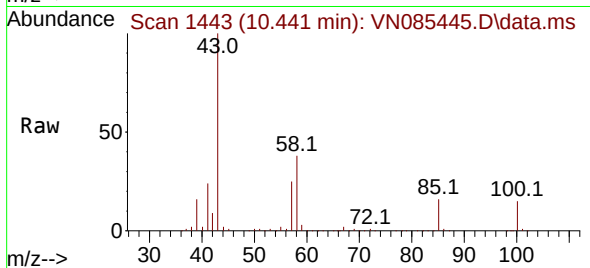




#51
4-Methyl-2-Pentanone
Concen: 245.877 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

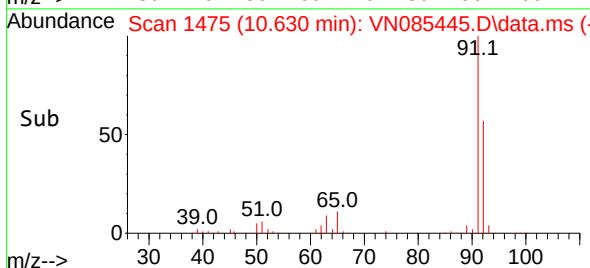
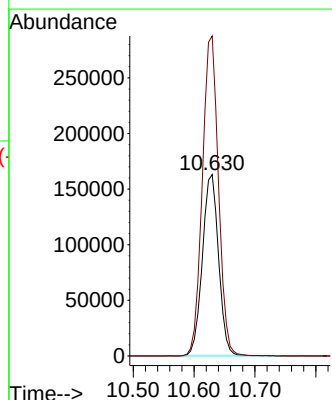
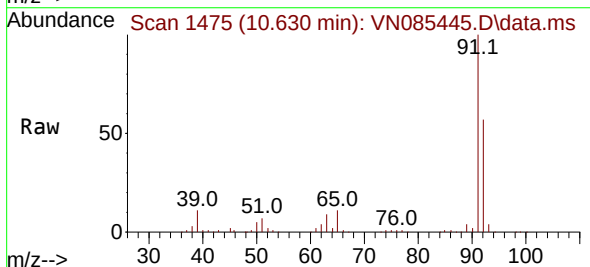
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

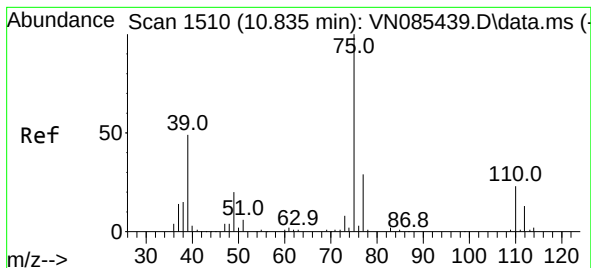
Tgt Ion: 43 Resp: 832426
Ion Ratio Lower Upper
43 100
58 37.8 30.5 45.7



#52
Toluene
Concen: 48.073 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 92 Resp: 301911
Ion Ratio Lower Upper
92 100
91 175.7 139.2 208.8

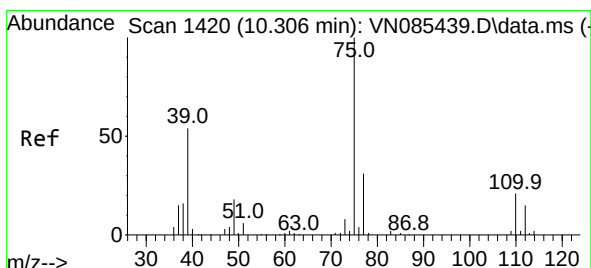
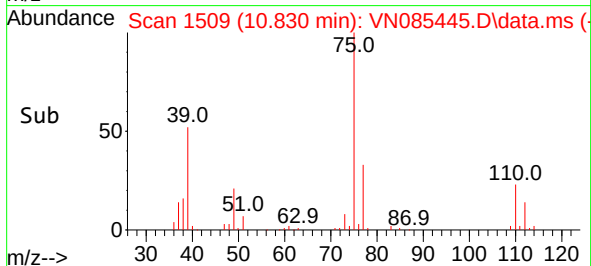
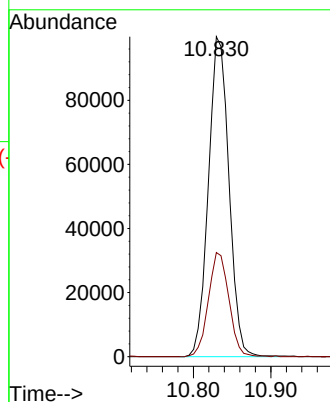
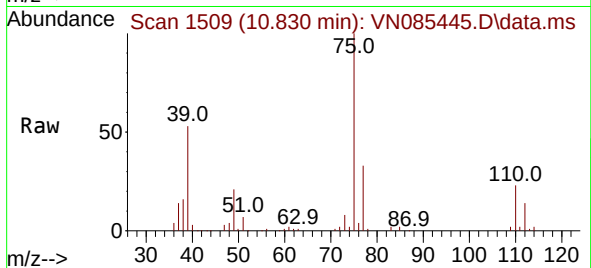




#53
 t-1,3-Dichloropropene
 Concen: 47.757 ug/l
 RT: 10.830 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

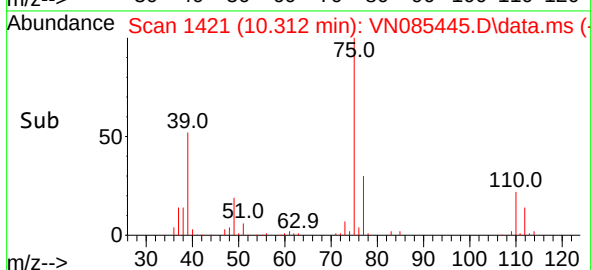
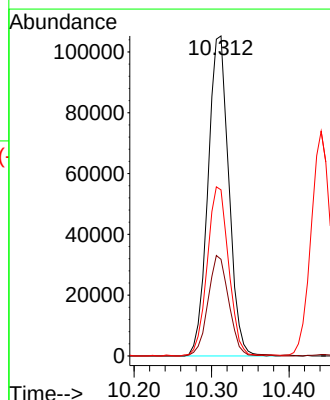
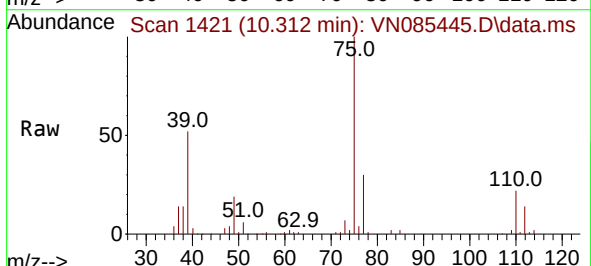
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

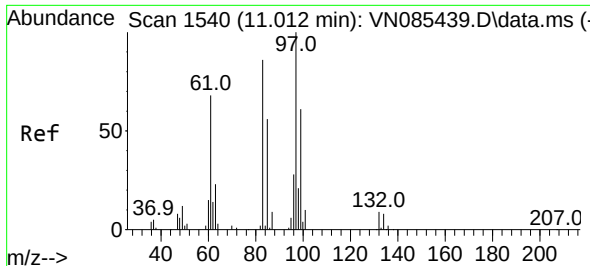
Tgt Ion: 75 Resp: 183680
 Ion Ratio Lower Upper
 75 100
 77 32.6 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 47.783 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 196307
 Ion Ratio Lower Upper
 75 100
 77 30.2 25.0 37.4
 39 51.9 43.1 64.7

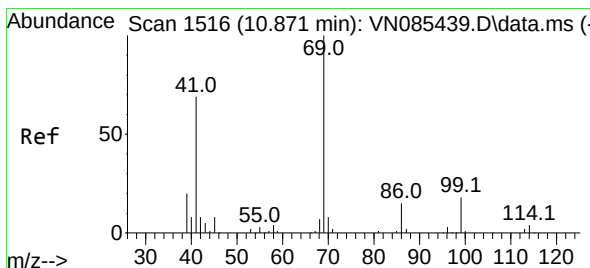
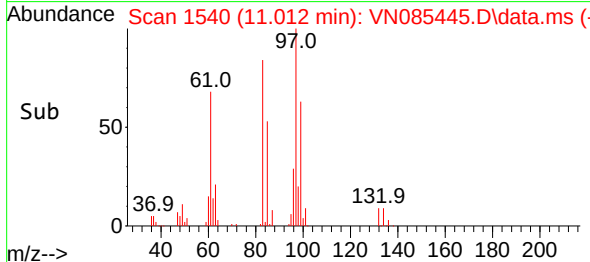
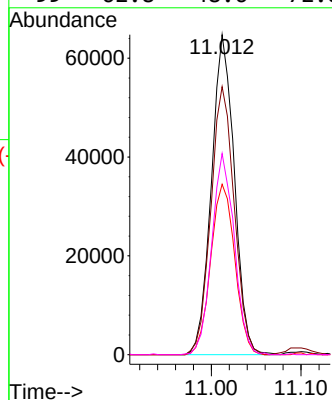
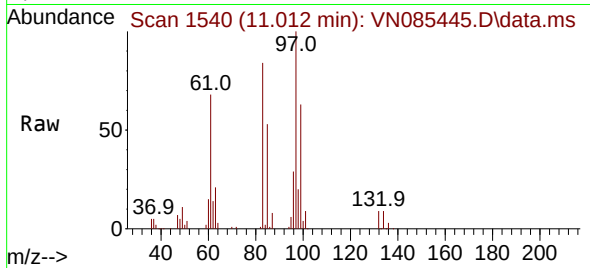




#55
1,1,2-Trichloroethane
Concen: 46.173 ug/l
RT: 11.012 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

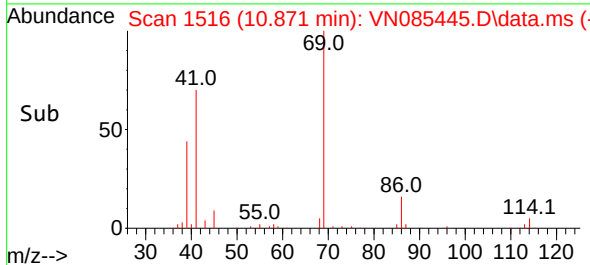
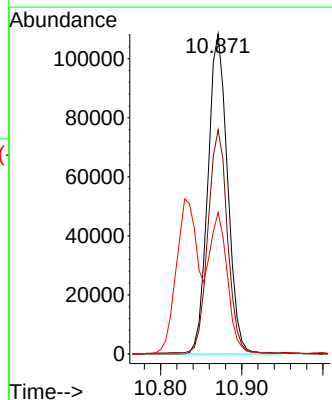
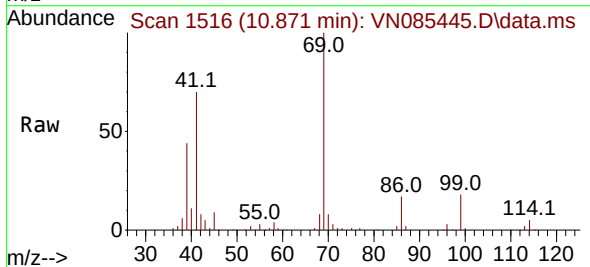
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

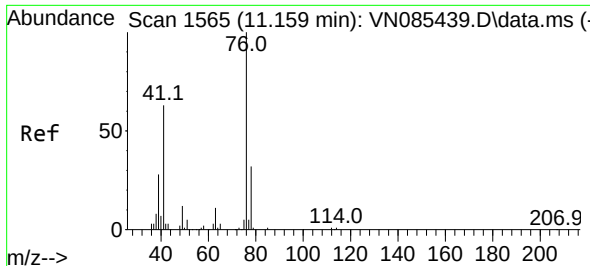
Tgt Ion:	97	Resp:	114757
Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.0	103.6
85	53.2	44.6	66.8
99	62.8	48.6	72.8



#56
Ethyl methacrylate
Concen: 43.762 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:	69	Resp:	182170
Ion	Ratio	Lower	Upper
69	100		
41	70.4	54.6	82.0
39	40.2	32.4	48.6





#57

1,3-Dichloropropane

Concen: 46.877 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

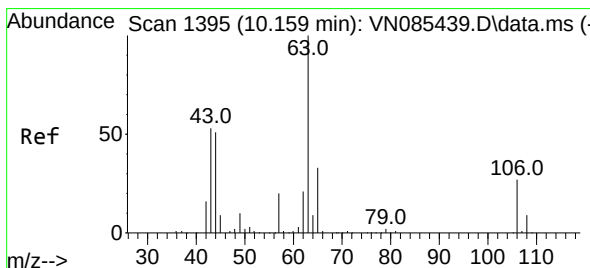
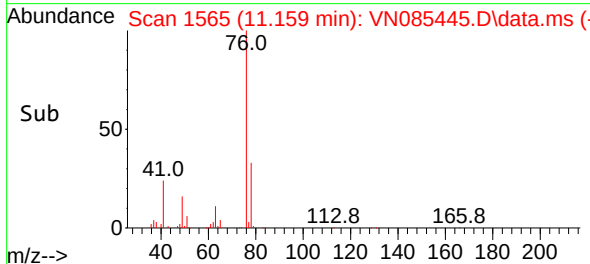
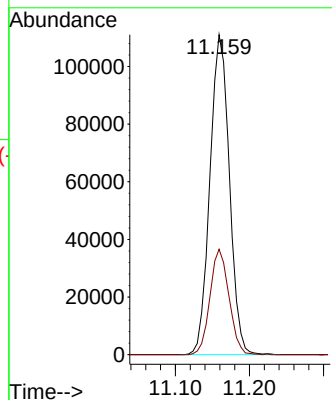
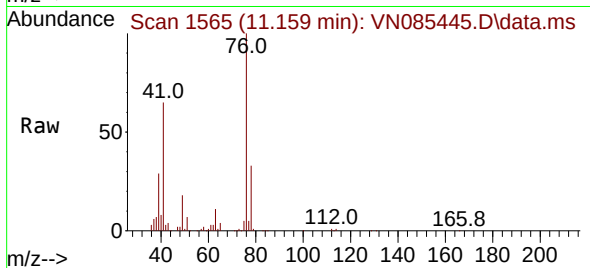
ICVVN011425

Tgt Ion: 76 Resp: 202583

Ion Ratio Lower Upper

76 100

78 32.1 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 256.116 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085445.D

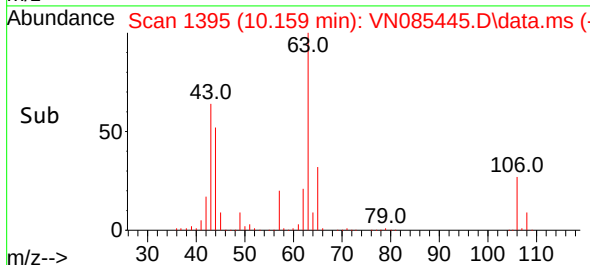
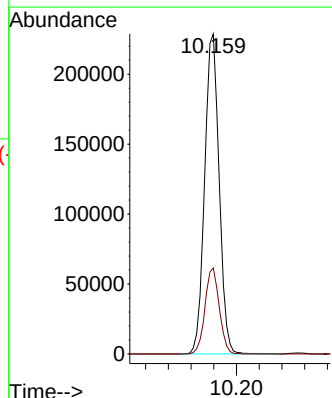
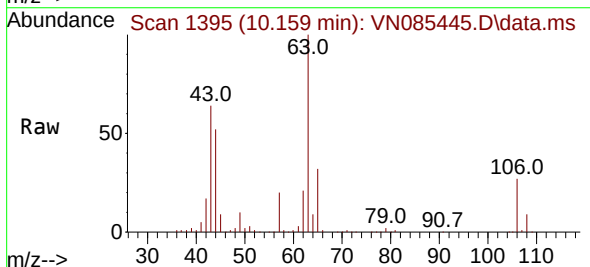
Acq: 14 Jan 2025 18:06

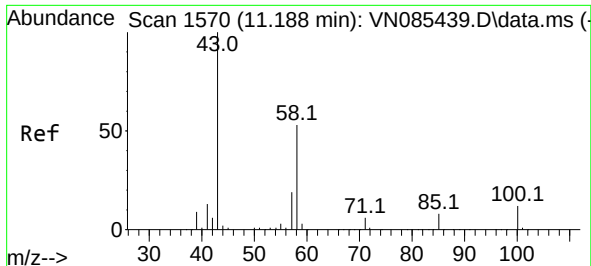
Tgt Ion: 63 Resp: 403949

Ion Ratio Lower Upper

63 100

106 26.4 21.6 32.4

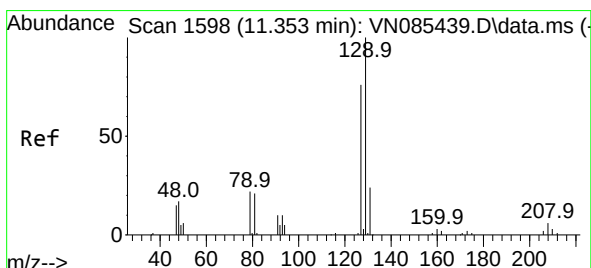
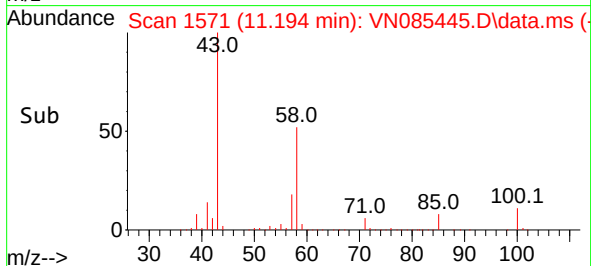
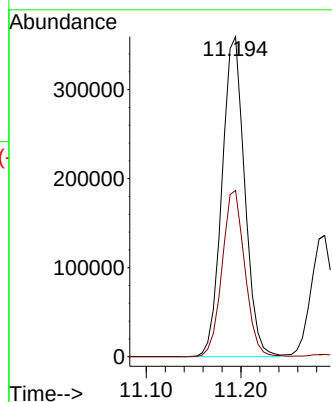
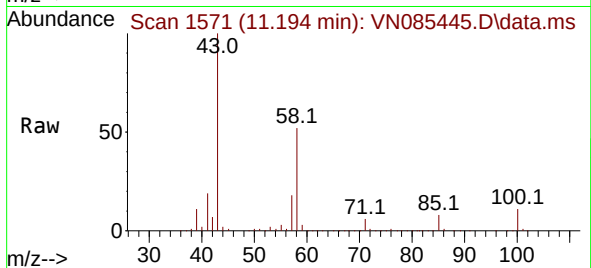




#59
2-Hexanone
Concen: 251.213 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

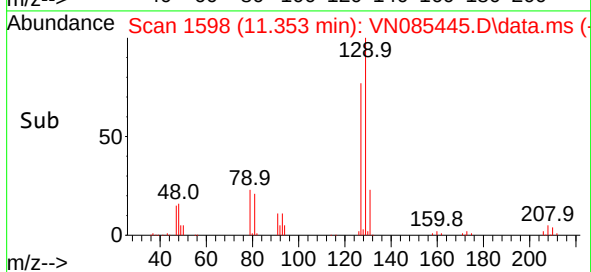
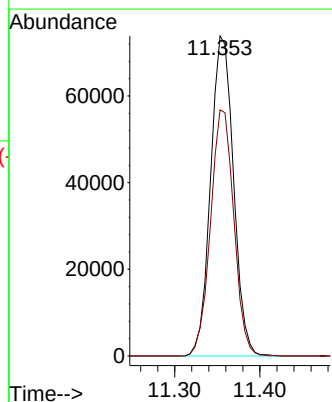
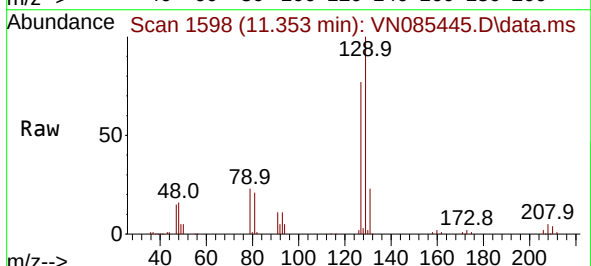
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

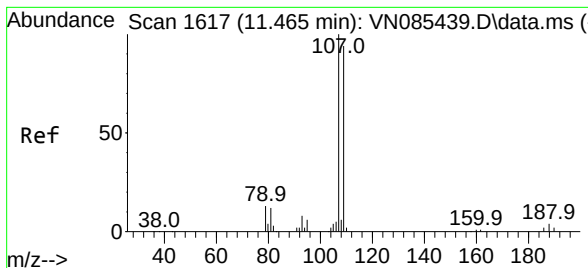
Tgt Ion: 43 Resp: 598433
Ion Ratio Lower Upper
43 100
58 52.1 26.2 78.6



#60
Dibromochloromethane
Concen: 45.935 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 129 Resp: 137831
Ion Ratio Lower Upper
129 100
127 78.1 38.6 115.8

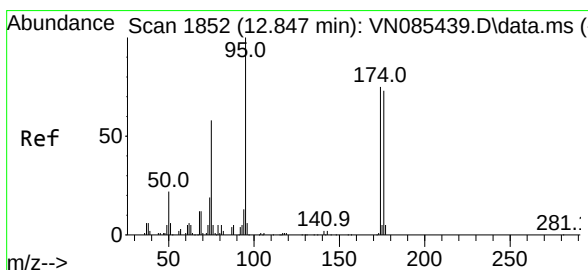
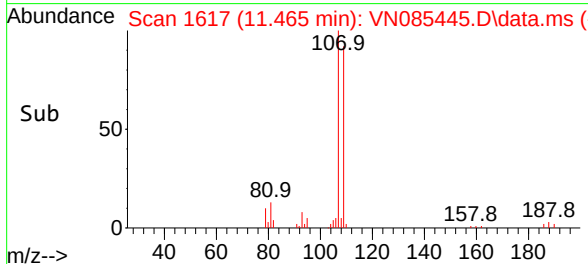
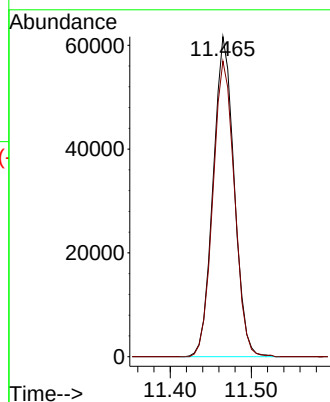
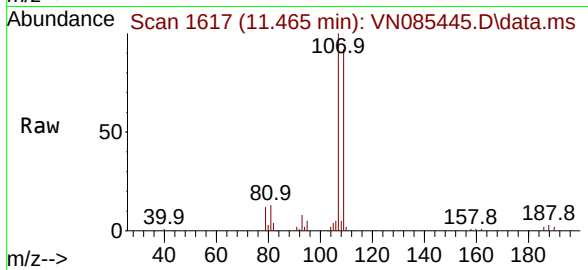




#61
1,2-Dibromoethane
Concen: 44.837 ug/l
RT: 11.465 min Scan# 110926
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

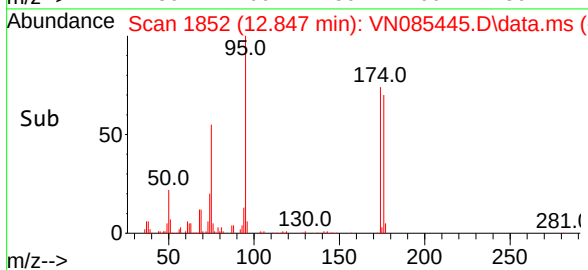
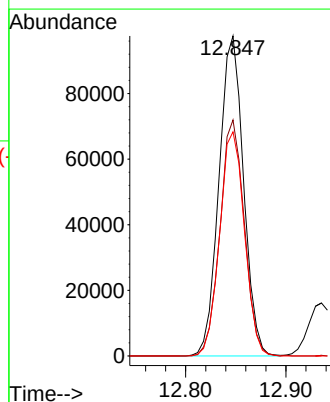
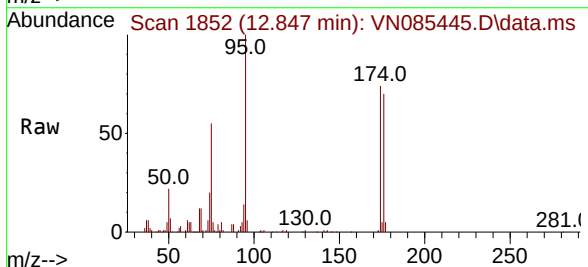
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

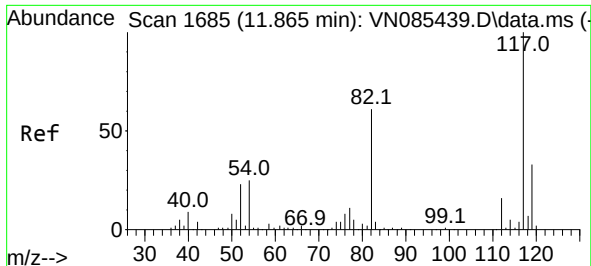
Tgt Ion:107 Resp: 110926
Ion Ratio Lower Upper
107 100
109 94.7 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 52.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 95 Resp: 165249
Ion Ratio Lower Upper
95 100
174 73.1 0.0 145.0
176 70.8 0.0 142.4

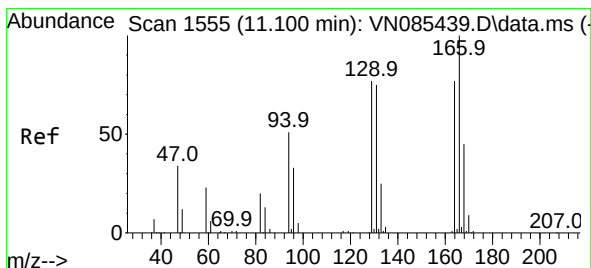
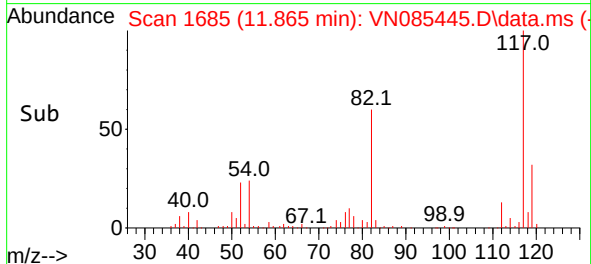
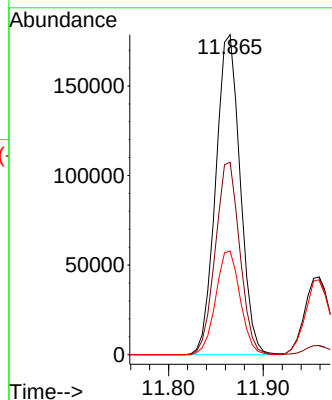
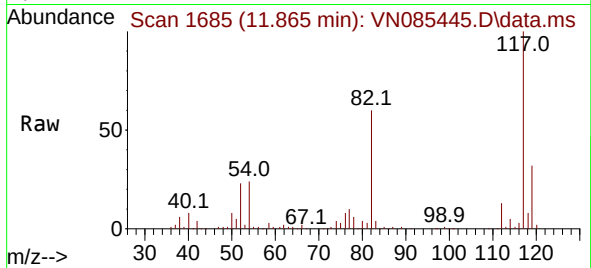




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

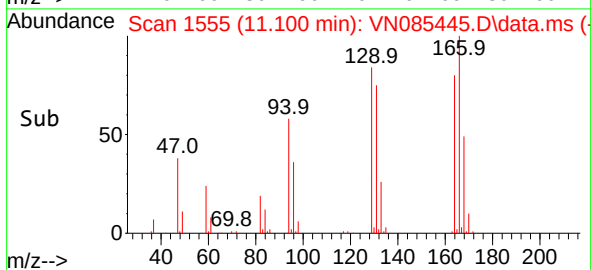
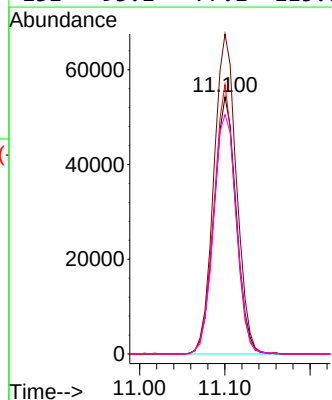
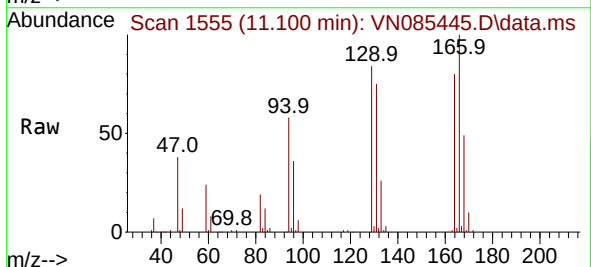
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

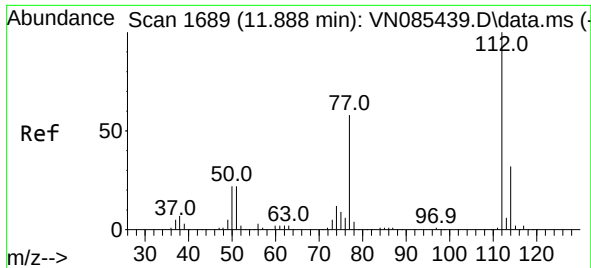
Tgt Ion:117 Resp: 320948
Ion Ratio Lower Upper
117 100
82 60.1 48.6 72.8
119 32.4 26.6 39.8



#64
Tetrachloroethene
Concen: 44.886 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:164 Resp: 98211
Ion Ratio Lower Upper
164 100
166 124.4 103.4 155.2
129 104.8 79.2 118.8
131 93.1 77.1 115.7

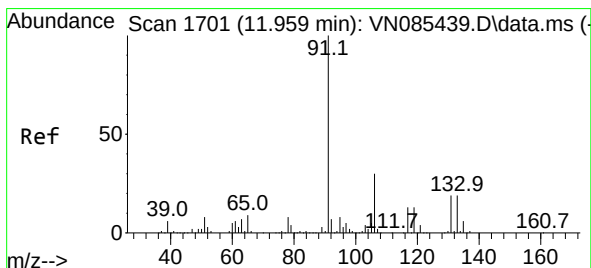
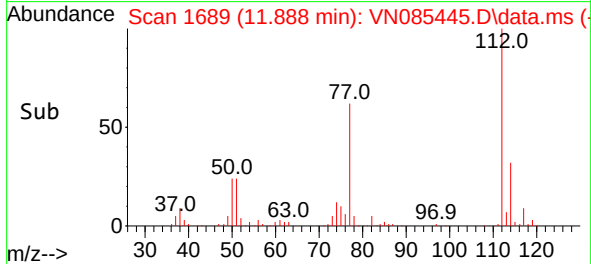
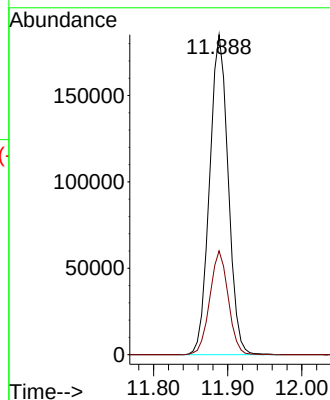
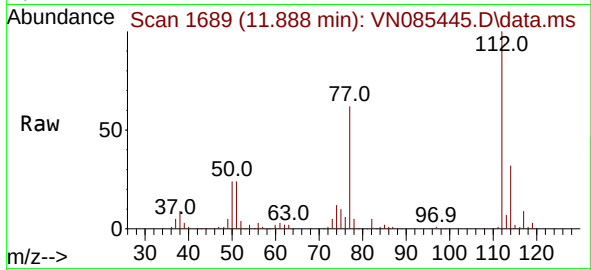




#65
Chlorobenzene
Concen: 45.901 ug/l
RT: 11.888 min Scan# 1112
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

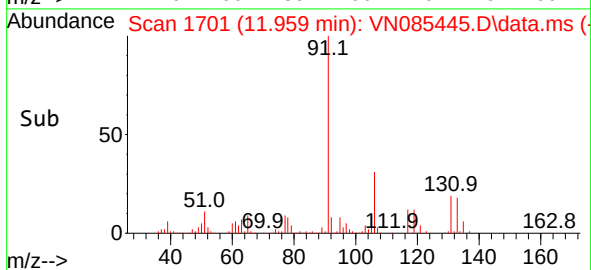
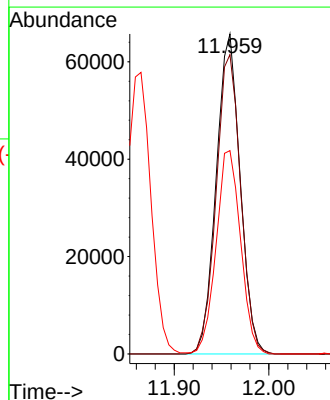
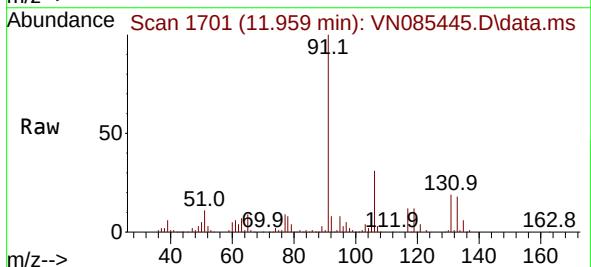
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

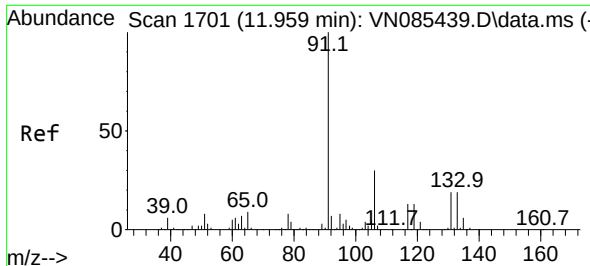
Tgt Ion:112 Resp: 322723
Ion Ratio Lower Upper
112 100
114 32.4 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 44.712 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:131 Resp: 115379
Ion Ratio Lower Upper
131 100
133 95.8 47.4 142.3
119 65.2 33.1 99.5

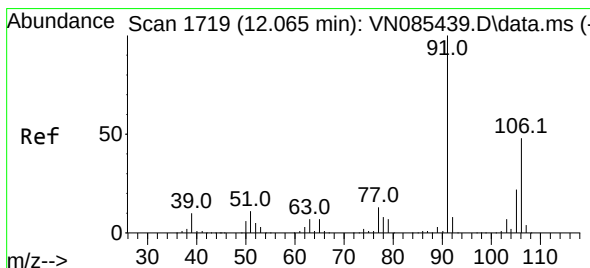
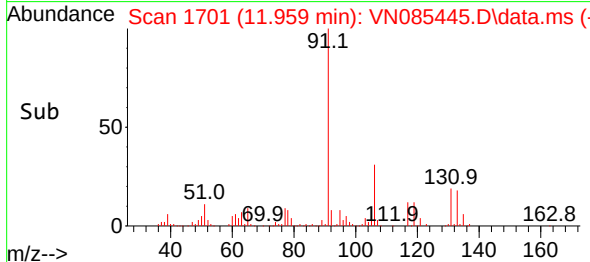
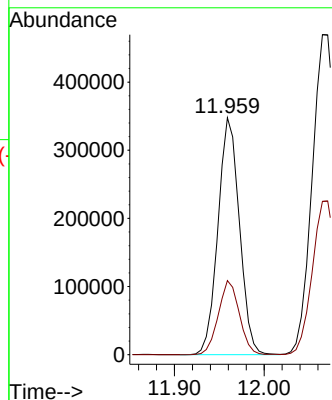
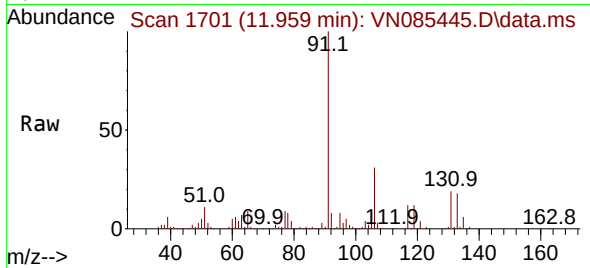




#67
Ethyl Benzene
Concen: 50.391 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

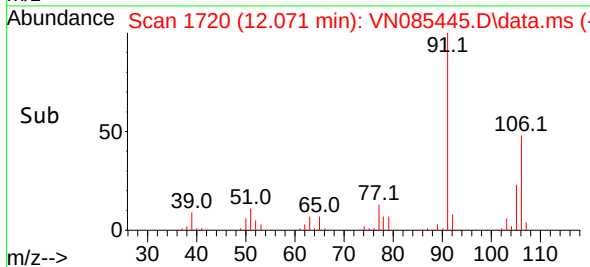
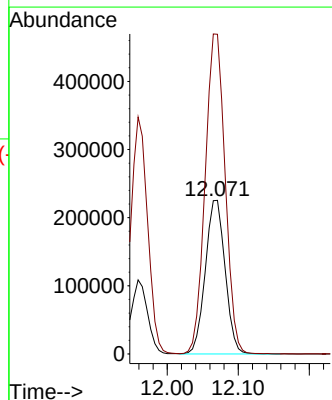
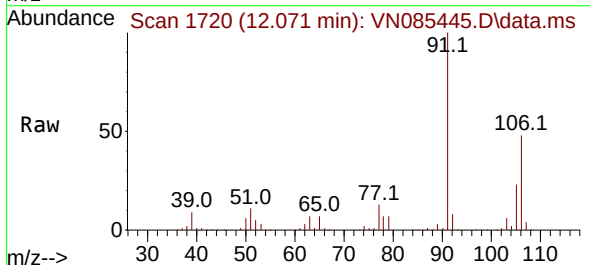
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

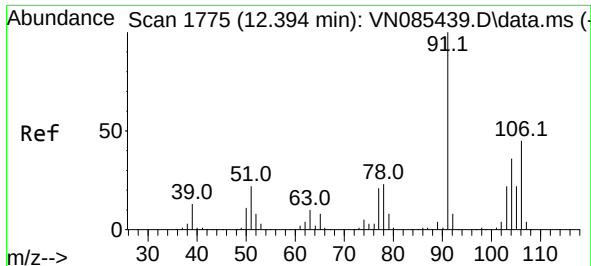
Tgt Ion: 91 Resp: 577059
Ion Ratio Lower Upper
91 100
106 31.2 23.8 35.8



#68
m/p-Xylenes
Concen: 103.341 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 106 Resp: 437367
Ion Ratio Lower Upper
106 100
91 210.1 167.7 251.5

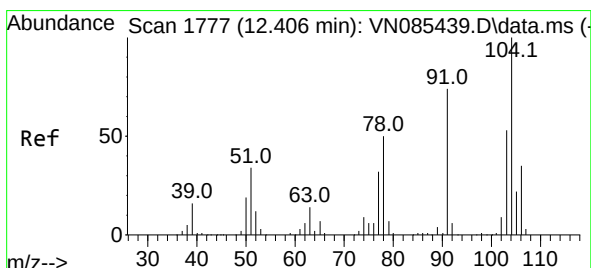
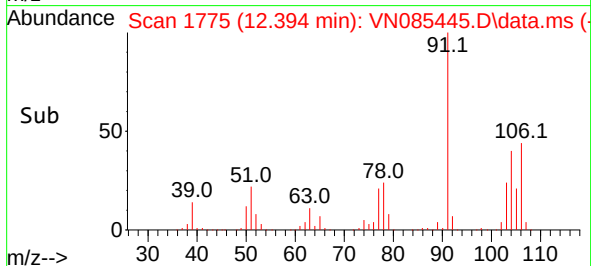
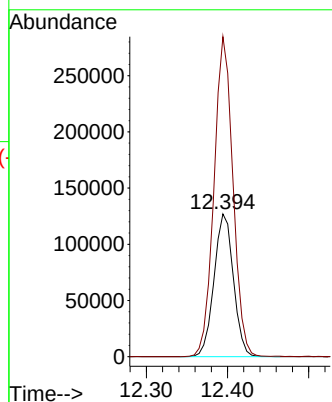
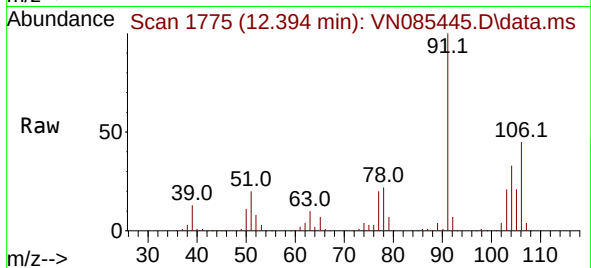




#69
o-Xylene
Concen: 52.093 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

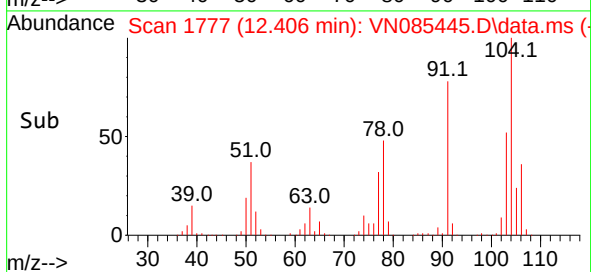
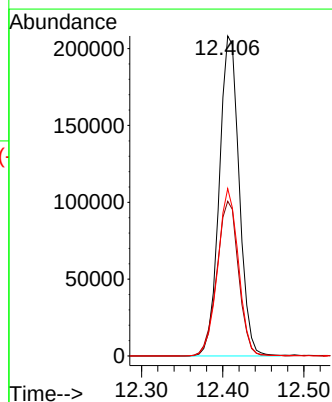
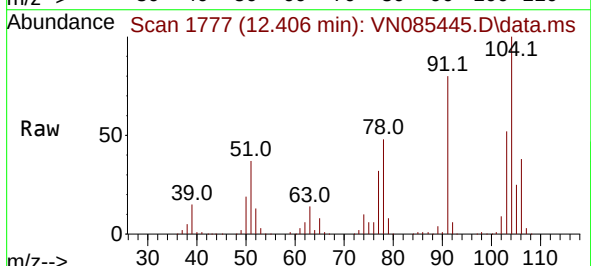
Instrument :
MSVOA_N
ClientSampleId :
ICVVO11425

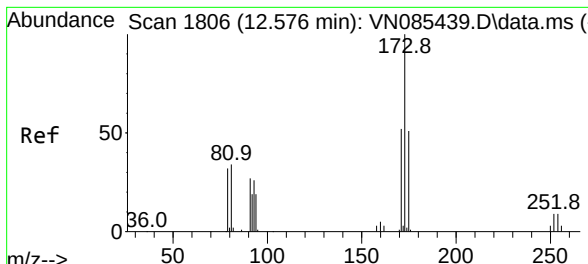
Tgt Ion:106 Resp: 210698
Ion Ratio Lower Upper
106 100
91 219.9 110.4 331.2



#70
Styrene
Concen: 53.103 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:104 Resp: 355459
Ion Ratio Lower Upper
104 100
78 52.8 42.5 63.7
103 54.5 43.8 65.8

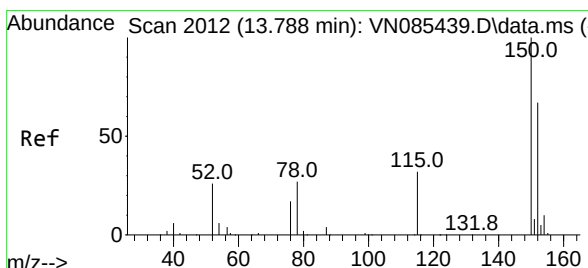
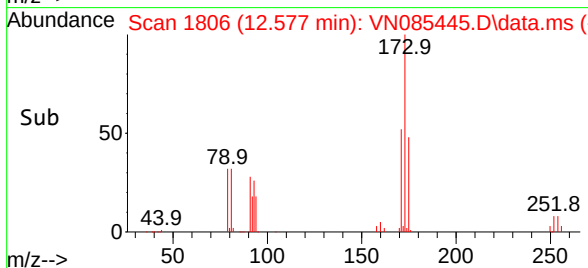
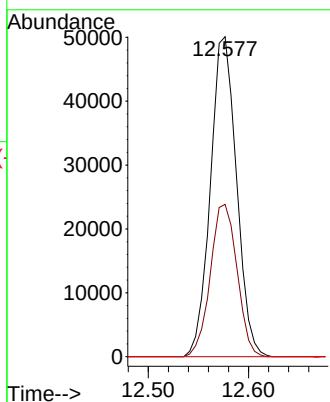
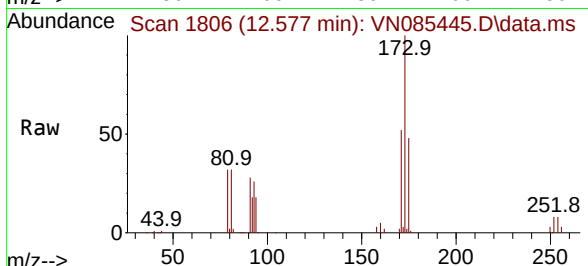




#71
 Bromoform
 Concen: 49.119 ug/l
 RT: 12.577 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

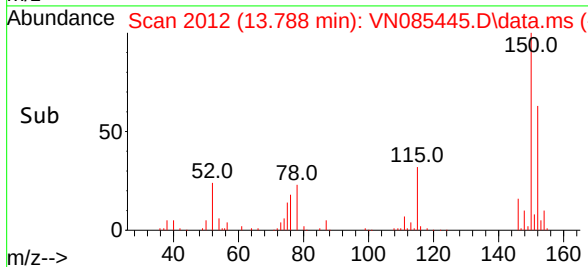
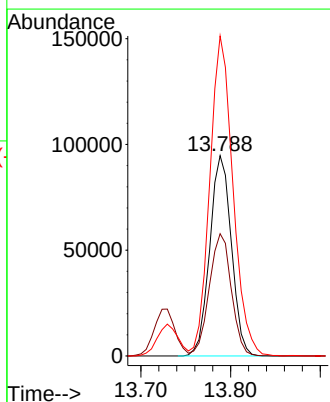
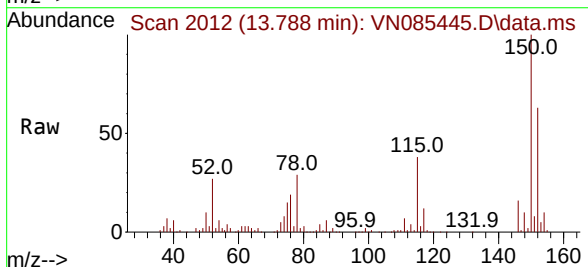
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

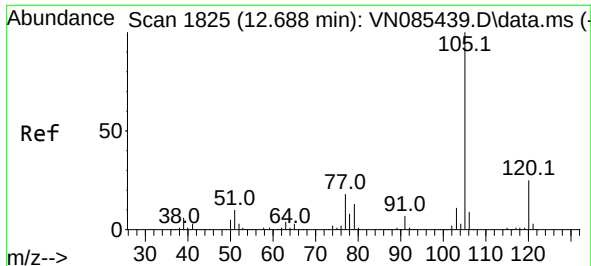
Tgt Ion:	173	Resp:	90693
Ion Ratio	Lower	Upper	
173	100		
175	48.7	24.4	73.2
254	0.0	0.0	0.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion:	152	Resp:	158525
Ion Ratio	Lower	Upper	
152	100		
115	62.2	31.1	93.3
150	171.0	0.0	343.6

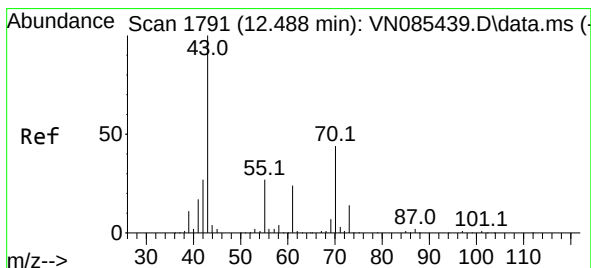
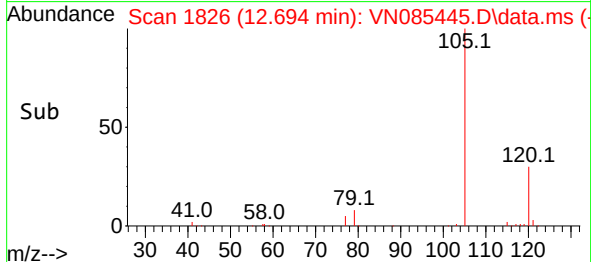
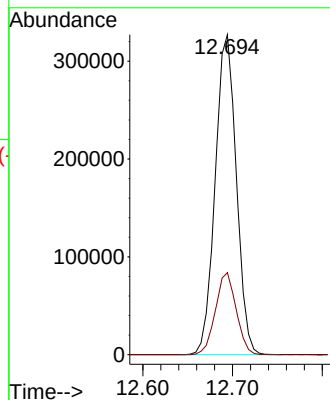
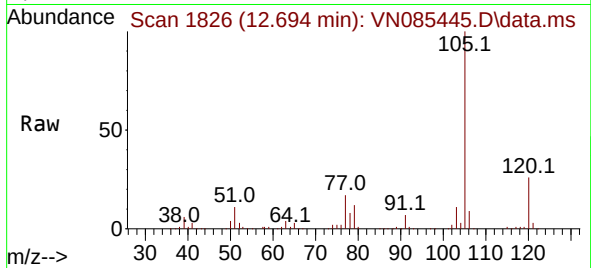




#73
Isopropylbenzene
Concen: 49.951 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

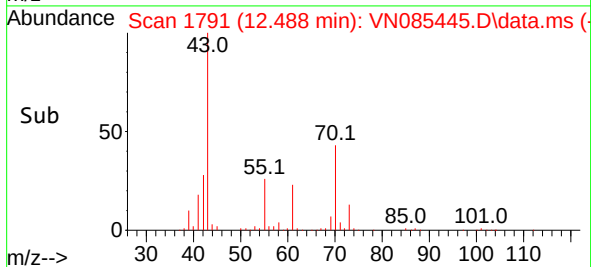
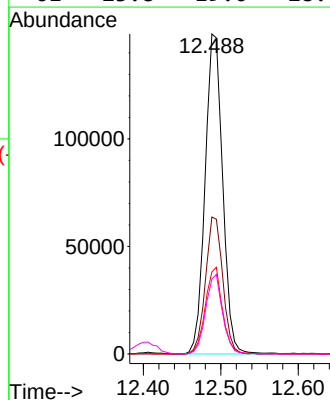
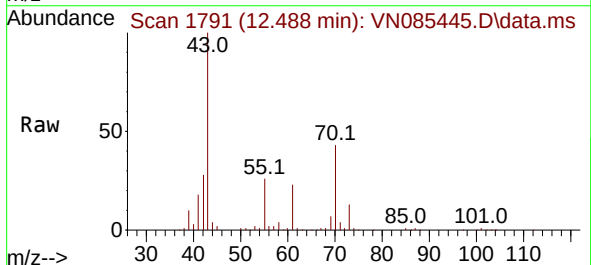
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

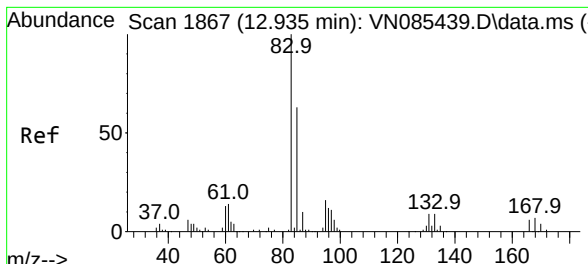
Tgt Ion:105 Resp: 534428
Ion Ratio Lower Upper
105 100
120 25.2 12.8 38.3



#74
N-ethyl acetate
Concen: 48.730 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 43 Resp: 234342
Ion Ratio Lower Upper
43 100
70 42.2 34.0 51.0
55 26.5 21.4 32.2
61 23.8 19.0 28.4

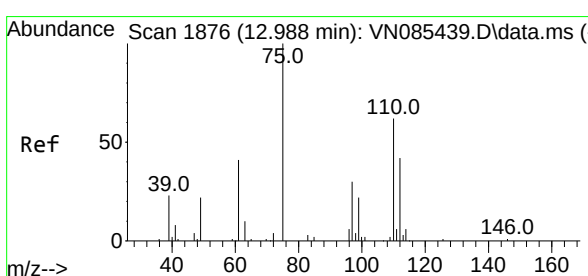
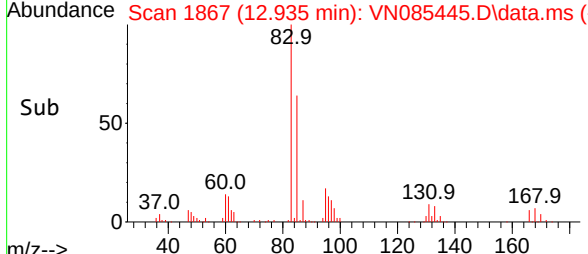
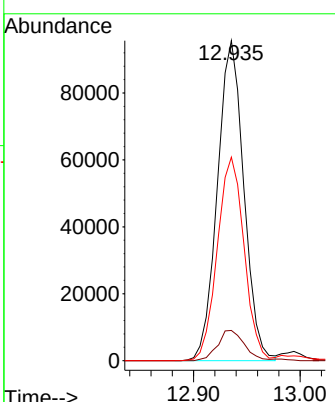
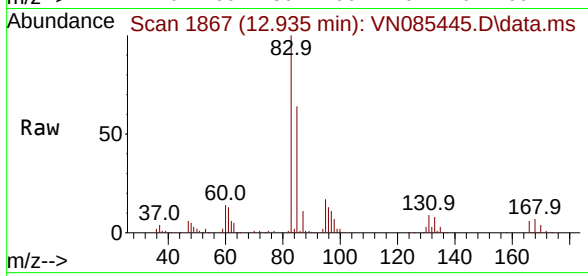




#75
 1,1,2,2-Tetrachloroethane
 Concen: 43.627 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

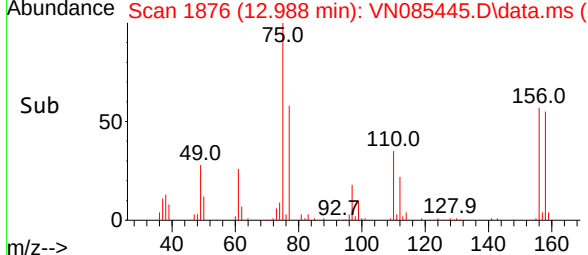
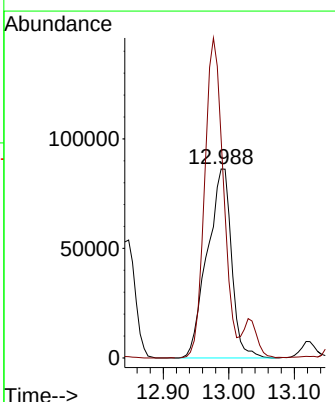
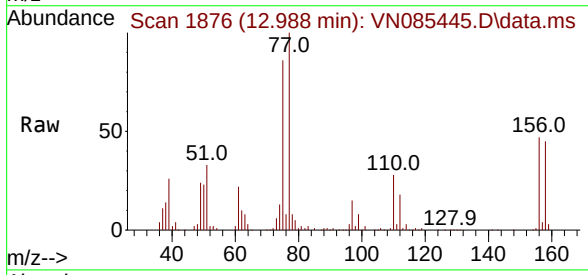
Instrument : MSVOA_N
 ClientSampleId : ICVVN011425

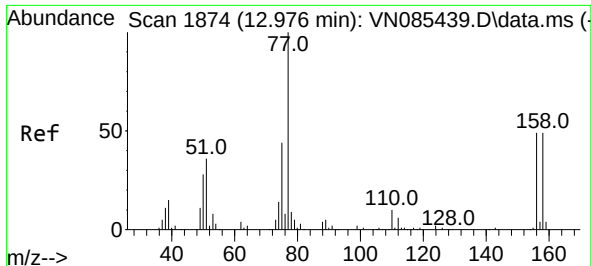
Tgt Ion:	83	Resp:	164882
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.8	14.4
85	64.6	32.2	96.6



#76
 1,2,3-Trichloropropane
 Concen: 68.739 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion:	75	Resp:	221480
Ion Ratio	Lower	Upper	
75	100		
77	130.3	109.7	329.2

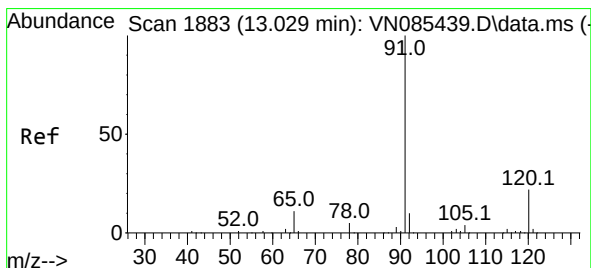
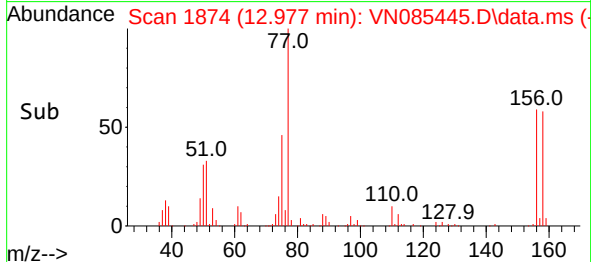
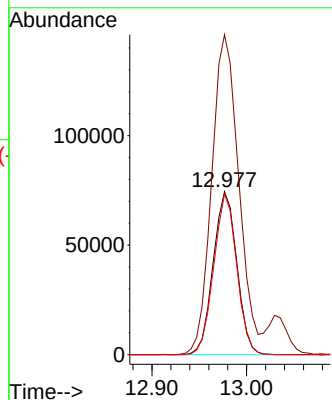
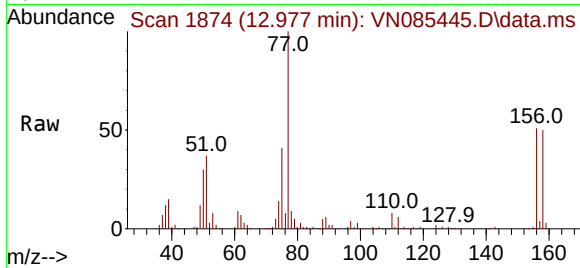




#77
Bromobenzene
Concen: 46.138 ug/l
RT: 12.977 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

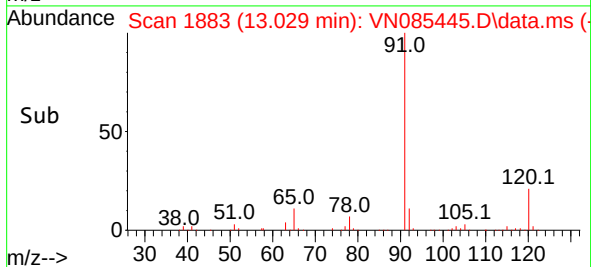
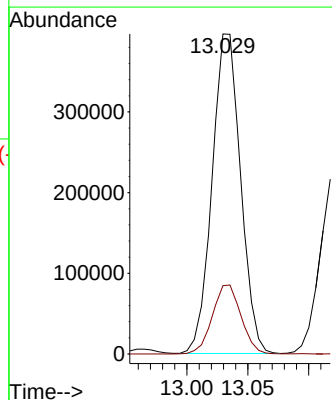
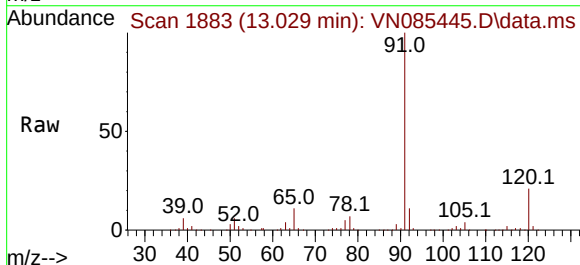
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

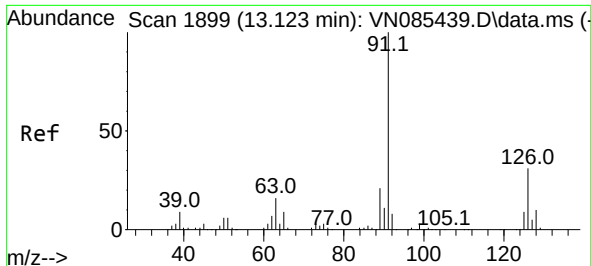
Tgt Ion:156 Resp: 128968
Ion Ratio Lower Upper
156 100
77 223.8 114.1 342.4
158 95.7 48.9 146.8



#78
n-propylbenzene
Concen: 51.001 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 645977
Ion Ratio Lower Upper
91 100
120 21.7 10.9 32.6





#79

2-Chlorotoluene

Concen: 47.870 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

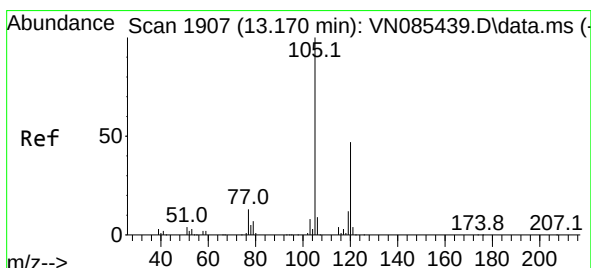
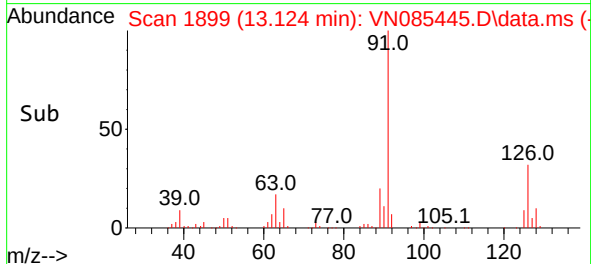
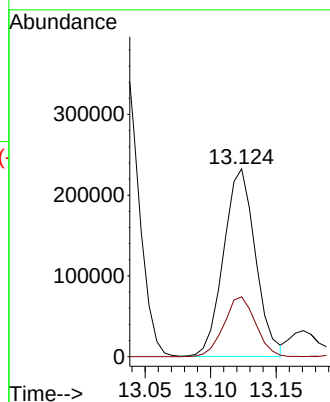
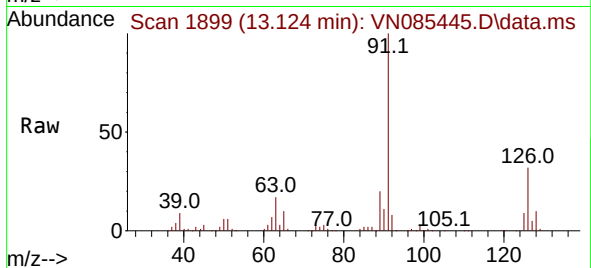
ICVVN011425

Tgt Ion: 91 Resp: 392404

Ion Ratio Lower Upper

91 100

126 31.8 15.7 47.1



#80

1,3,5-Trimethylbenzene

Concen: 51.604 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085445.D

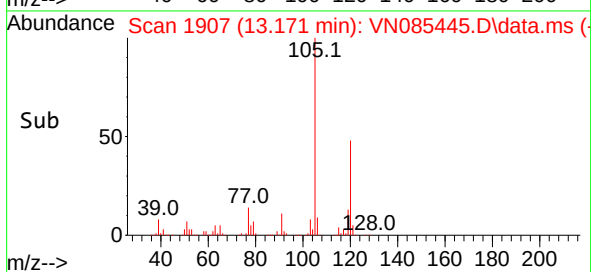
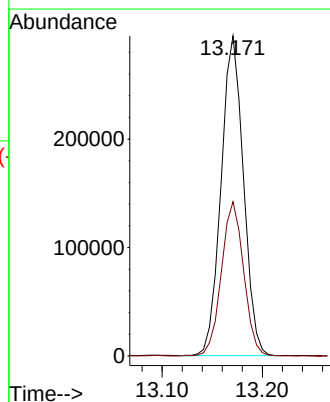
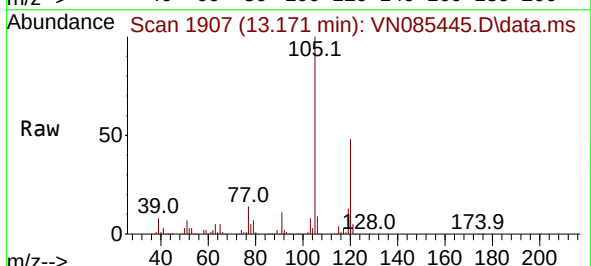
Acq: 14 Jan 2025 18:06

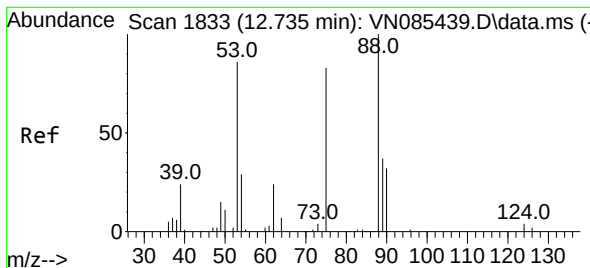
Tgt Ion:105 Resp: 456048

Ion Ratio Lower Upper

105 100

120 48.1 23.9 71.7

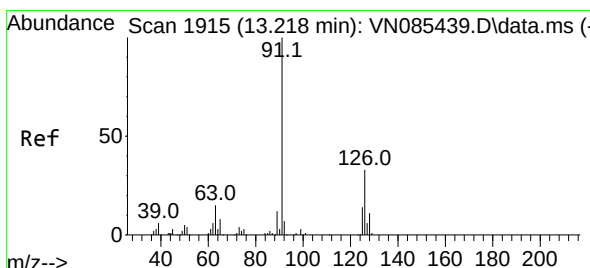
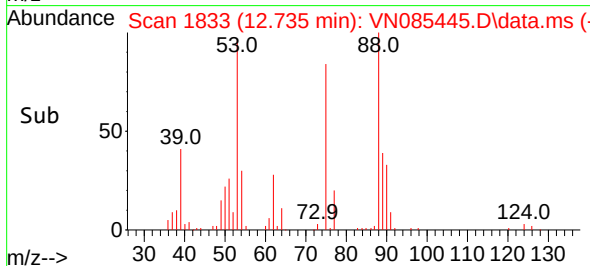
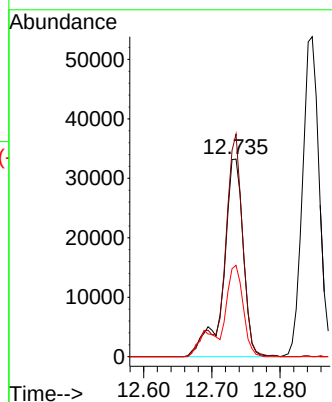
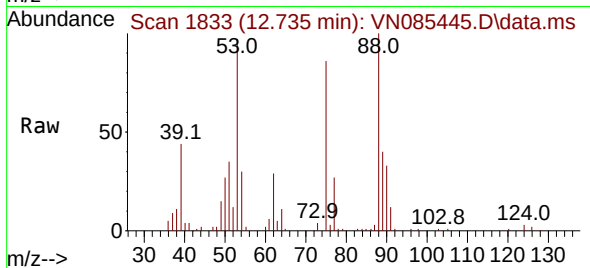




#81
trans-1,4-Dichloro-2-butene
Concen: 56.127 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

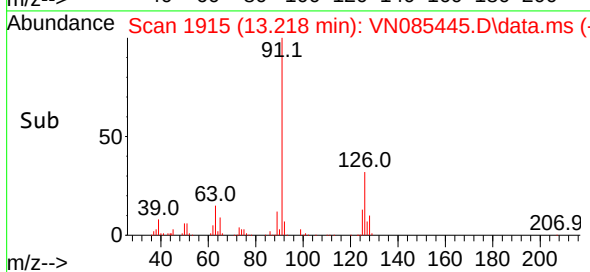
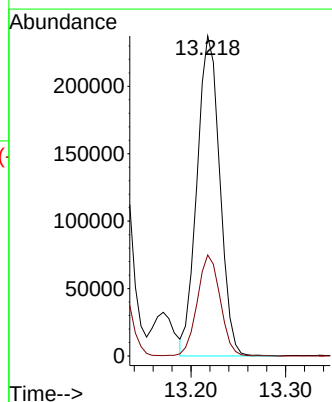
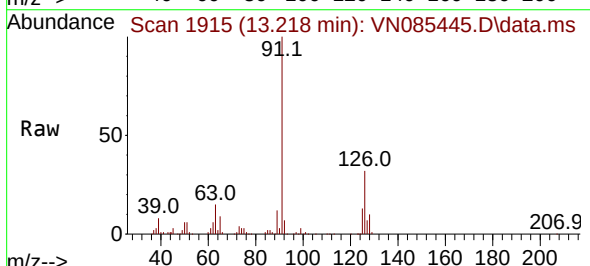
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

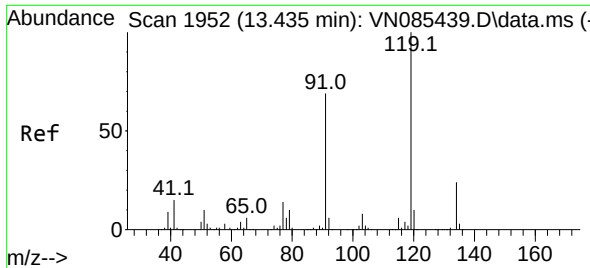
Tgt Ion: 75 Resp: 66842
Ion Ratio Lower Upper
75 100
53 103.5 95.6 143.4
89 38.0 37.0 55.6



#82
4-Chlorotoluene
Concen: 48.776 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 91 Resp: 398110
Ion Ratio Lower Upper
91 100
126 31.6 15.9 47.7

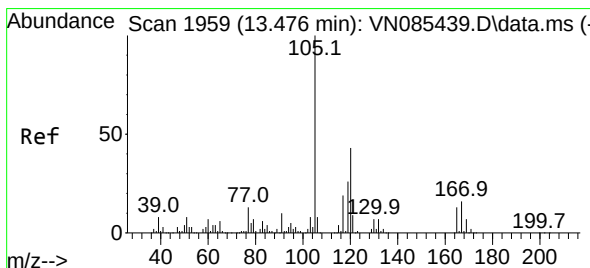
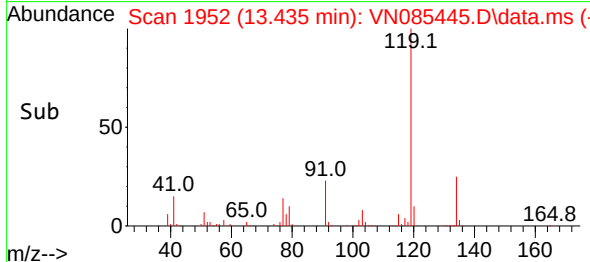
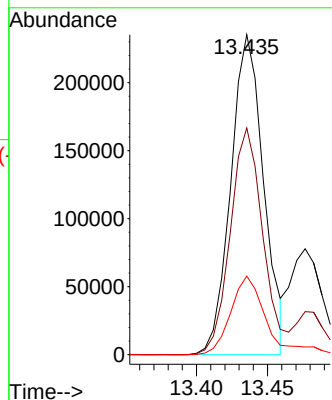
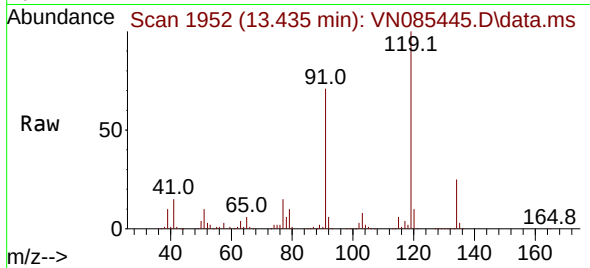




#83
tert-Butylbenzene
Concen: 50.997 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

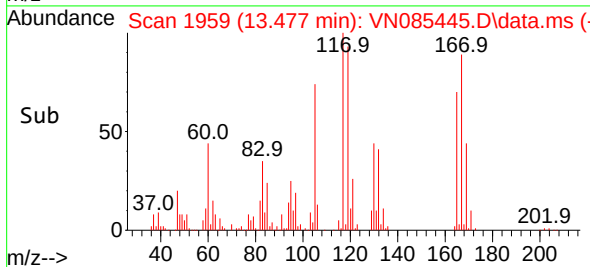
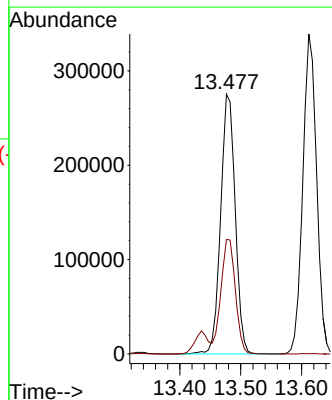
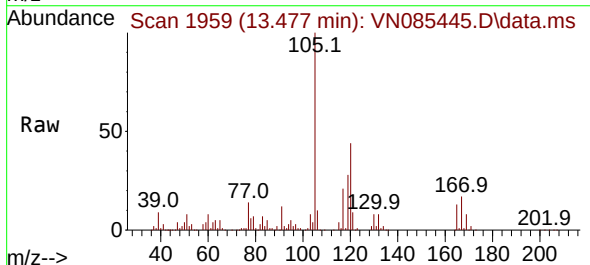
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

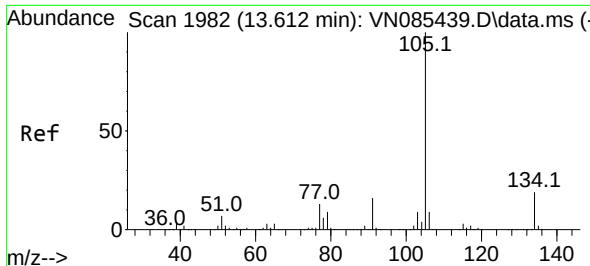
Tgt Ion:119 Resp: 378478
Ion Ratio Lower Upper
119 100
91 70.6 35.1 105.3
134 26.7 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 51.922 ug/l
RT: 13.477 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:105 Resp: 457340
Ion Ratio Lower Upper
105 100
120 43.6 21.6 65.0

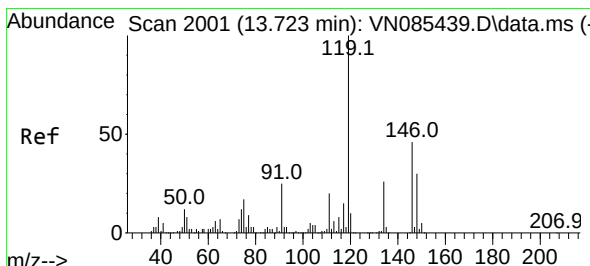
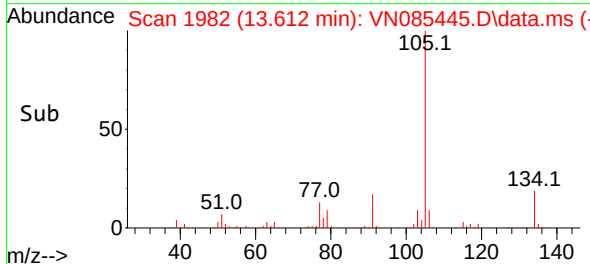
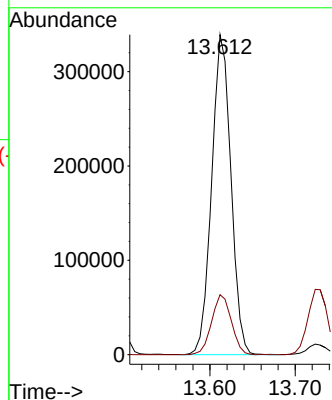
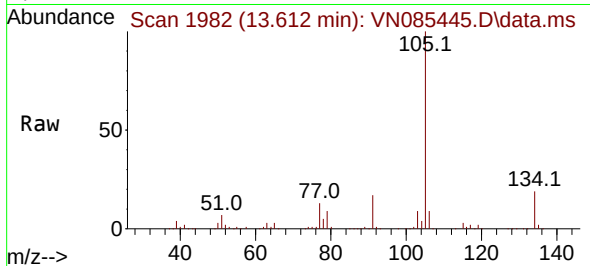




#85
 sec-Butylbenzene
 Concen: 51.777 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

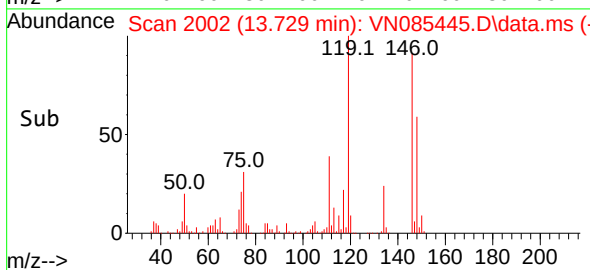
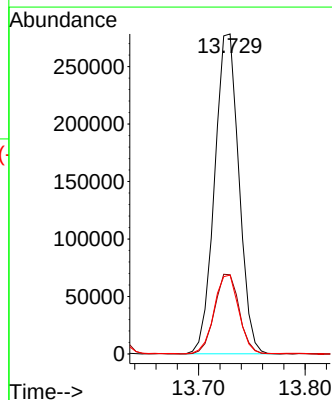
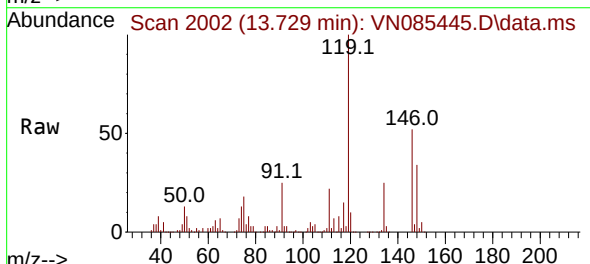
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

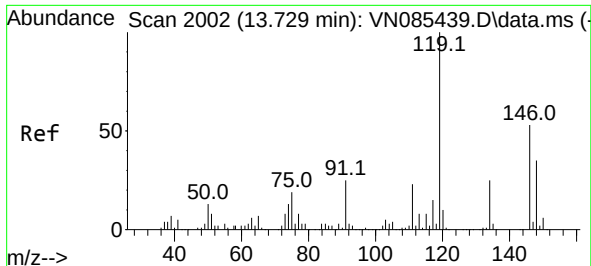
Tgt Ion:105 Resp: 532578
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 47.795 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion:119 Resp: 440284
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.7 38.0
 91 25.0 12.7 38.1

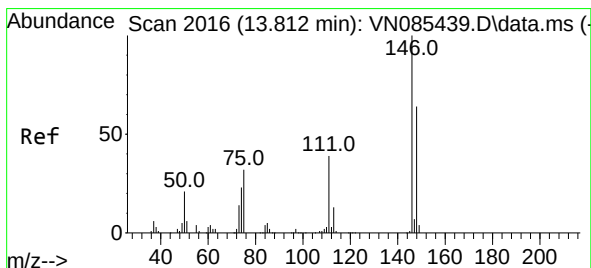
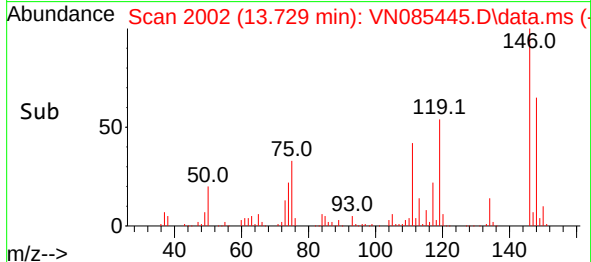
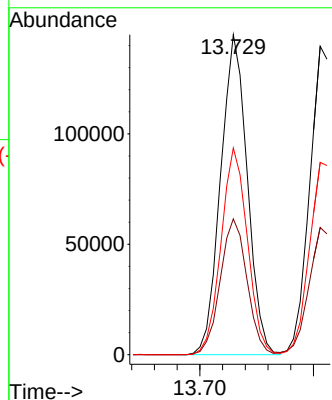
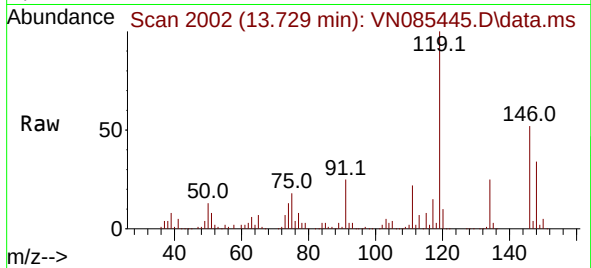




#87
 1,3-Dichlorobenzene
 Concen: 45.920 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

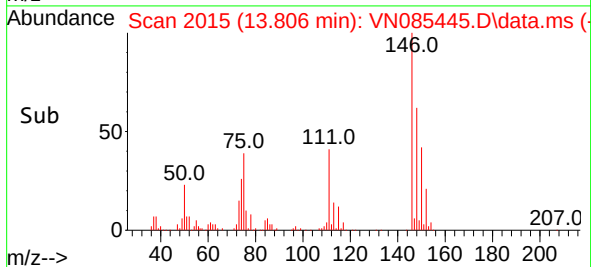
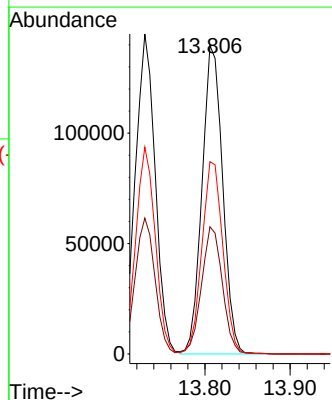
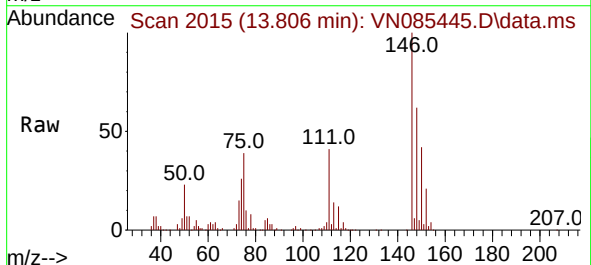
Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN011425

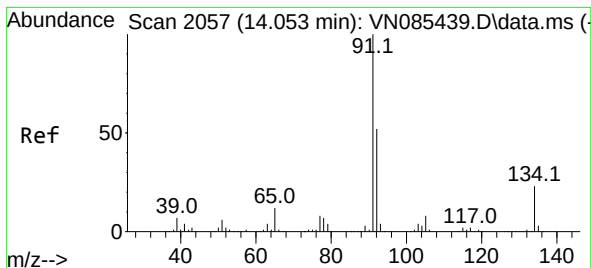
Tgt Ion:146 Resp: 236387
 Ion Ratio Lower Upper
 146 100
 111 42.6 21.4 64.3
 148 63.8 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 44.102 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: VN085445.D
 Acq: 14 Jan 2025 18:06

Tgt Ion:146 Resp: 235319
 Ion Ratio Lower Upper
 146 100
 111 41.9 21.3 63.7
 148 63.5 32.4 97.0

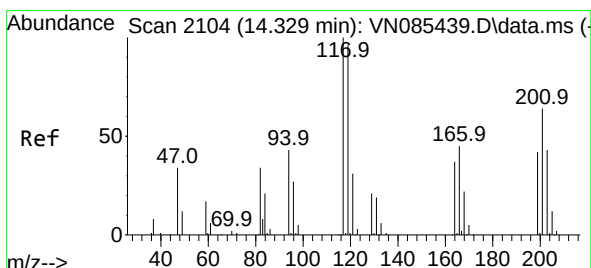
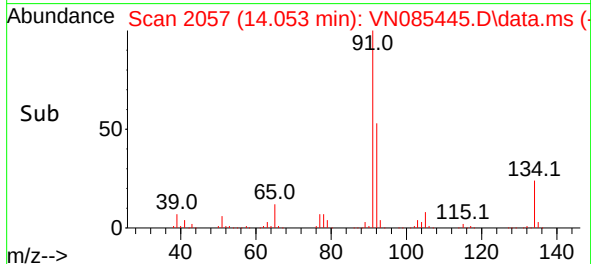
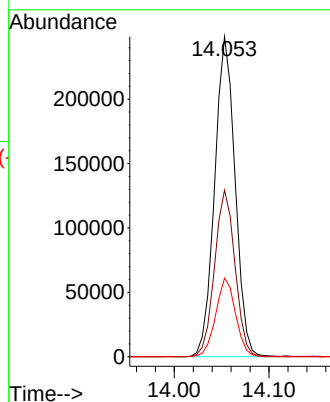
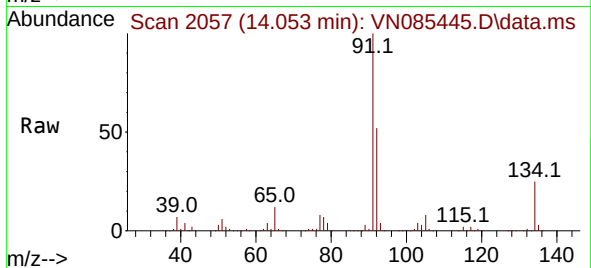




#89
n-Butylbenzene
Concen: 50.578 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

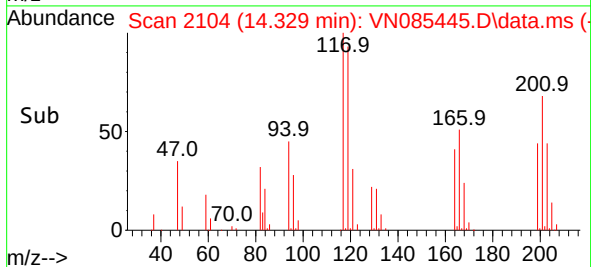
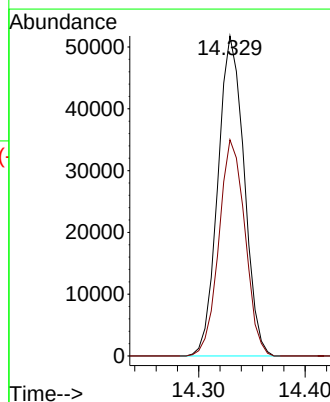
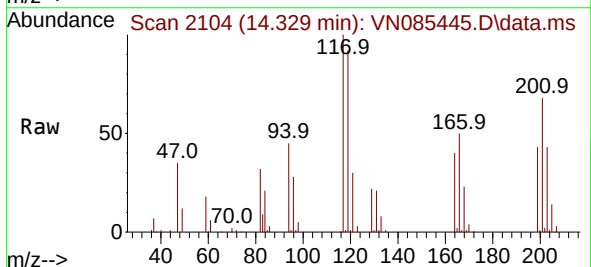
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

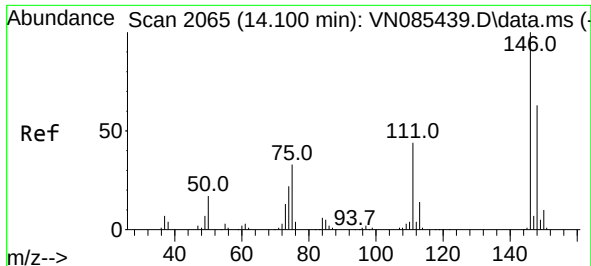
Tgt Ion: 91 Resp: 373227
Ion Ratio Lower Upper
91 100
92 51.9 25.8 77.3
134 23.8 11.7 35.1



#90
Hexachloroethane
Concen: 45.215 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 117 Resp: 88538
Ion Ratio Lower Upper
117 100
201 67.2 33.7 101.0

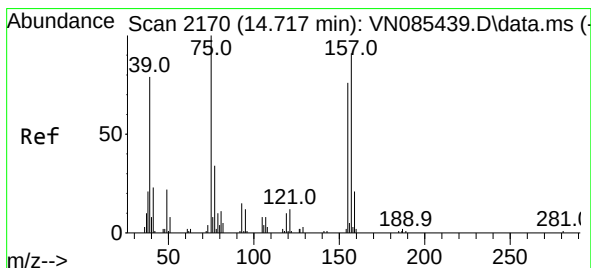
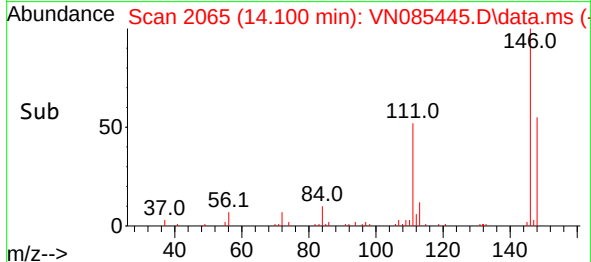
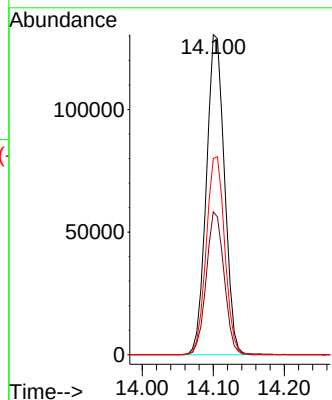
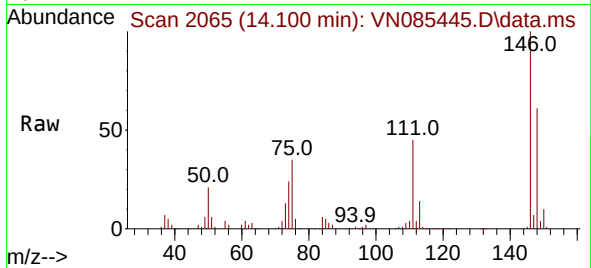




#91
1,2-Dichlorobenzene
Concen: 45.113 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

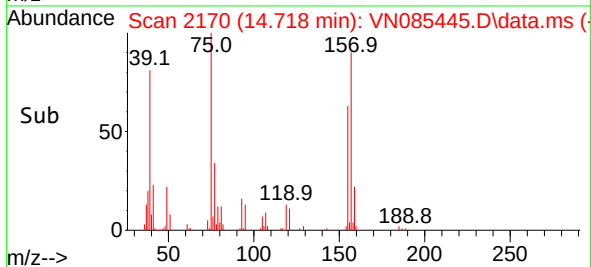
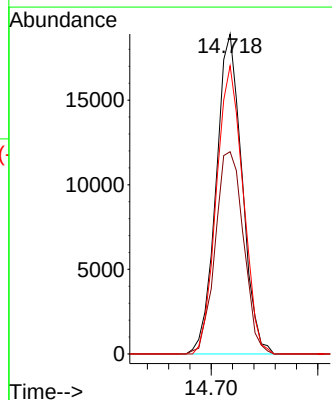
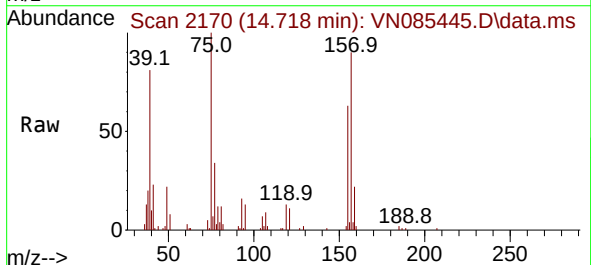
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

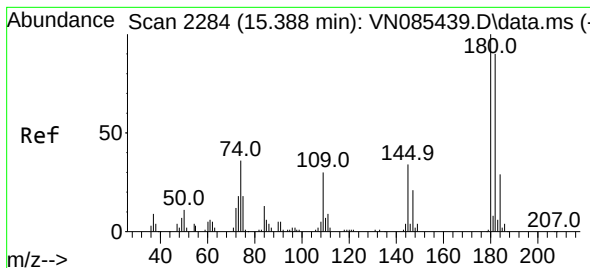
Tgt Ion:146 Resp: 231646
Ion Ratio Lower Upper
146 100
111 43.9 21.7 65.1
148 63.1 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 46.221 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion: 75 Resp: 31899
Ion Ratio Lower Upper
75 100
155 69.0 36.4 109.2
157 92.3 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 45.739 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

Instrument :

MSVOA_N

ClientSampleId :

ICVVN011425

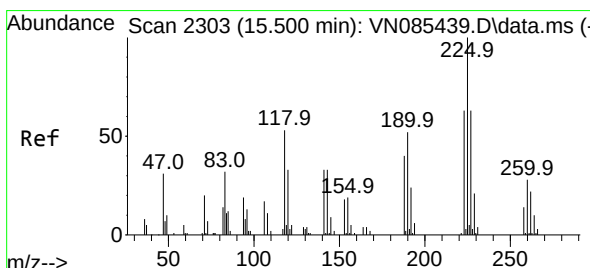
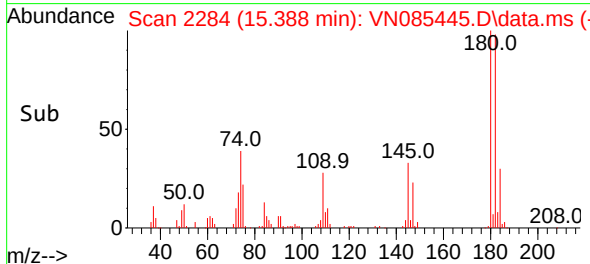
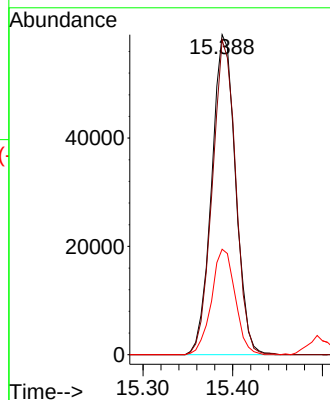
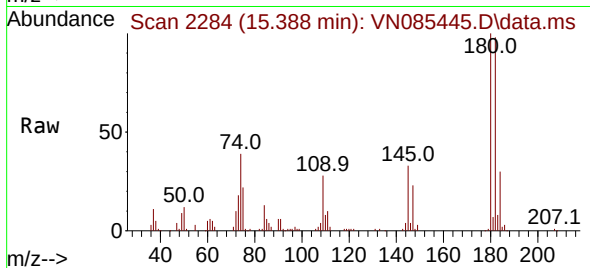
Tgt Ion:180 Resp: 109157

Ion Ratio Lower Upper

180 100

182 96.3 46.8 140.3

145 32.7 16.0 48.0



#94

Hexachlorobutadiene

Concen: 42.112 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085445.D

Acq: 14 Jan 2025 18:06

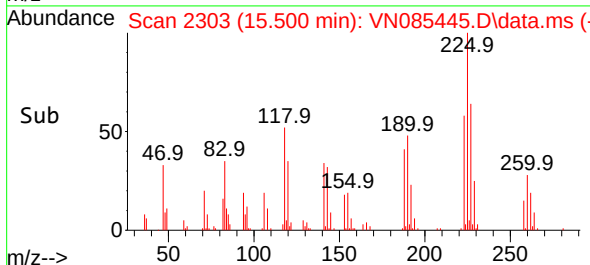
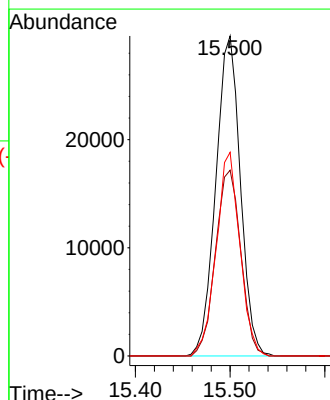
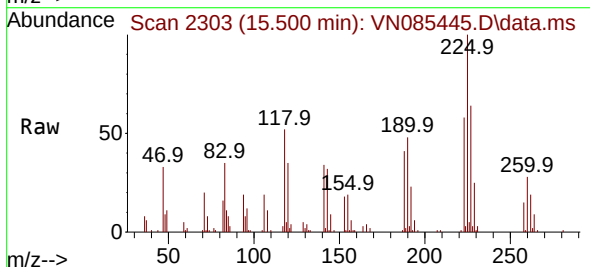
Tgt Ion:225 Resp: 53358

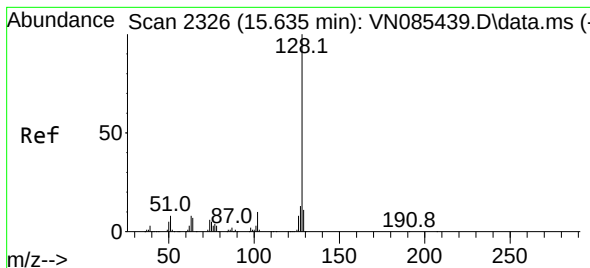
Ion Ratio Lower Upper

225 100

223 59.8 30.7 92.1

227 61.2 30.9 92.5

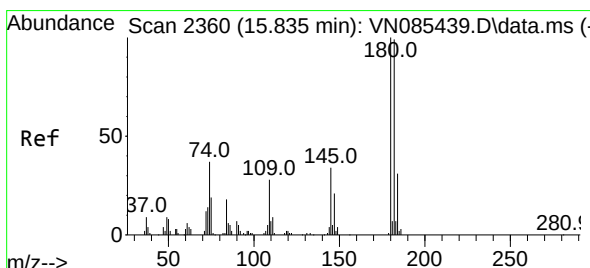
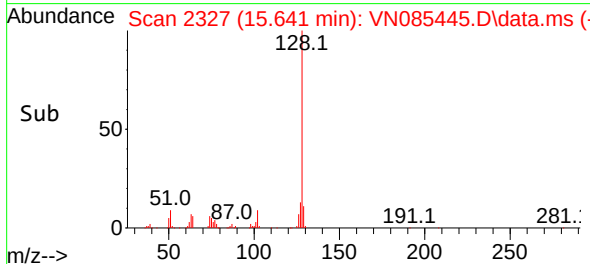
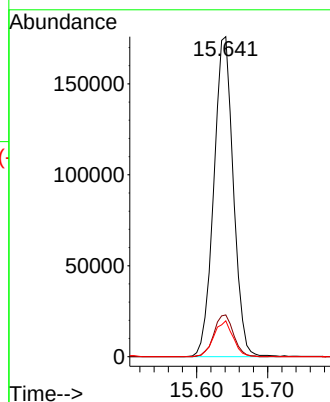
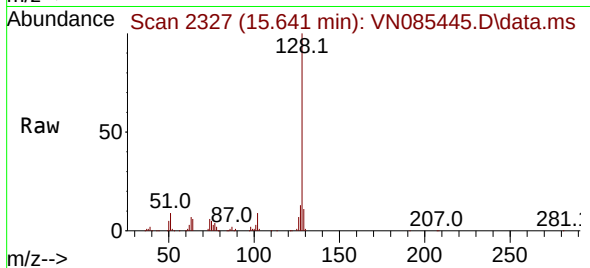




#95
Naphthalene
Concen: 47.116 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

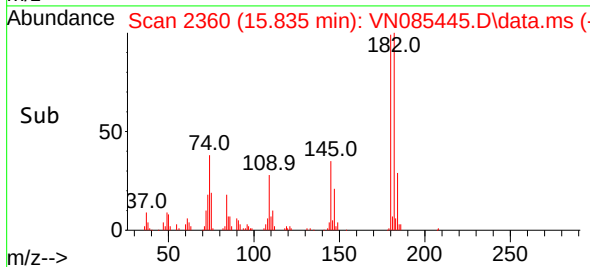
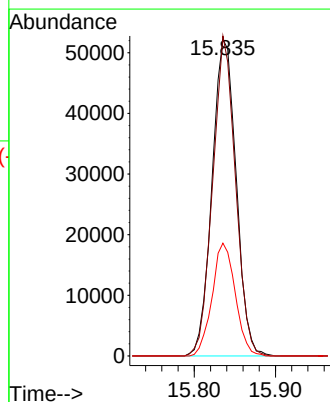
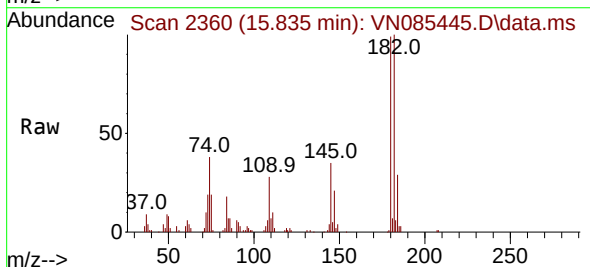
Instrument :
MSVOA_N
ClientSampleId :
ICVVN011425

Tgt Ion:128 Resp: 335535
Ion Ratio Lower Upper
128 100
127 13.2 10.6 16.0
129 11.1 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 44.551 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085445.D
Acq: 14 Jan 2025 18:06

Tgt Ion:180 Resp: 107583
Ion Ratio Lower Upper
180 100
182 95.6 47.4 142.2
145 34.3 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085645.D
 Acq On : 04 Feb 2025 11:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	200704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	345148	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	309053	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157058	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	154798	47.780	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.560%
35) Dibromofluoromethane	8.165	113	127274	53.153	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.300%
50) Toluene-d8	10.565	98	473979	55.713	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	111.420%
62) 4-Bromofluorobenzene	12.847	95	163009	56.013	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	112.020%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	168819	62.124	ug/l	98
3) Chloromethane	2.359	50	151639	51.538	ug/l	99
4) Vinyl Chloride	2.512	62	185363	62.678	ug/l	98
5) Bromomethane	2.942	94	115992	64.931	ug/l	95
6) Chloroethane	3.118	64	116980	62.391	ug/l	98
7) Trichlorofluoromethane	3.495	101	227801	53.087	ug/l	99
8) Diethyl Ether	3.959	74	75659	51.037	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.371	101	136051	56.291	ug/l	97
10) Methyl Iodide	4.589	142	171090	61.814	ug/l	96
11) Tert butyl alcohol	5.518	59	90596	244.210	ug/l	100
12) 1,1-Dichloroethene	4.336	96	124529	57.812	ug/l	91
13) Acrolein	4.177	56	85431	168.697	ug/l	99
14) Allyl chloride	5.024	41	157091	44.944	ug/l #	94
15) Acrylonitrile	5.718	53	303850	257.863	ug/l	99
16) Acetone	4.424	43	236574	225.997	ug/l	94
17) Carbon Disulfide	4.712	76	378039	57.001	ug/l	98
18) Methyl Acetate	5.018	43	143957	45.225	ug/l	92
19) Methyl tert-butyl Ether	5.795	73	384956	55.039	ug/l	98
20) Methylene Chloride	5.277	84	141744	54.697	ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	132371	57.502	ug/l	94
22) Diisopropyl ether	6.671	45	381754	49.208	ug/l	97
23) Vinyl Acetate	6.600	43	1409531	259.616	ug/l	95
24) 1,1-Dichloroethane	6.565	63	245805	51.962	ug/l	98
25) 2-Butanone	7.477	43	372307	241.685	ug/l	91
26) 2,2-Dichloropropane	7.489	77	220150	57.562	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	155112	57.208	ug/l	93
28) Bromochloromethane	7.806	49	95572	43.426	ug/l	87
29) Tetrahydrofuran	7.836	42	249949	255.923	ug/l	89
30) Chloroform	7.965	83	252335	51.611	ug/l	100
31) Cyclohexane	8.253	56	204306	49.690	ug/l	91
32) 1,1,1-Trichloroethane	8.165	97	225191	52.509	ug/l	96
36) 1,1-Dichloropropene	8.371	75	183927	54.731	ug/l	98
37) Ethyl Acetate	7.559	43	159199	46.933	ug/l	98
38) Carbon Tetrachloride	8.359	117	202078	52.524	ug/l	99
39) Methylcyclohexane	9.600	83	195859	62.021	ug/l	93
40) Benzene	8.606	78	567137	56.166	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085645.D
 Acq On : 04 Feb 2025 11:05
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 05 01:01:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	81539	46.204	ug/l	91
42) 1,2-Dichloroethane	8.671	62	185776	48.850	ug/l	97
43) Isopropyl Acetate	8.688	43	271553	49.962	ug/l	95
44) Trichloroethene	9.347	130	131785	56.068	ug/l	100
45) 1,2-Dichloropropane	9.618	63	137051	53.137	ug/l	99
46) Dibromomethane	9.706	93	97554	52.419	ug/l	96
47) Bromodichloromethane	9.882	83	202509	53.411	ug/l	98
48) Methyl methacrylate	9.677	41	122409	50.045	ug/l	89
49) 1,4-Dioxane	9.694	88	47051	1142.294	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	800853	253.917	ug/l	94
52) Toluene	10.629	92	351922	60.150	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	204407	57.048	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	221256	57.810	ug/l #	90
55) 1,1,2-Trichloroethane	11.012	97	129296	55.842	ug/l	99
56) Ethyl methacrylate	10.871	69	199066	50.997	ug/l	90
57) 1,3-Dichloropropane	11.159	76	225579	56.030	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	335470	228.313	ug/l	97
59) 2-Hexanone	11.194	43	580109	261.399	ug/l	91
60) Dibromochloromethane	11.359	129	152370	54.508	ug/l	98
61) 1,2-Dibromoethane	11.465	107	129588	56.226	ug/l	99
64) Tetrachloroethene	11.100	164	122776	58.273	ug/l	96
65) Chlorobenzene	11.888	112	380252	56.165	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	133801	53.847	ug/l	100
67) Ethyl Benzene	11.959	91	654450	59.349	ug/l	97
68) m/p-Xylenes	12.071	106	518534	127.234	ug/l	95
69) o-Xylene	12.394	106	241242	61.940	ug/l	96
70) Styrene	12.412	104	419116	65.022	ug/l	97
71) Bromoform	12.576	173	99802	56.133	ug/l #	98
73) Isopropylbenzene	12.694	105	606175	57.186	ug/l	99
74) N-amyl acetate	12.494	43	234045	49.123	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	188424	50.322	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	244941	76.730	ug/l	45
77) Bromobenzene	12.976	156	148155	53.497	ug/l	95
78) n-propylbenzene	13.035	91	731968	58.330	ug/l	99
79) 2-Chlorotoluene	13.123	91	439835	54.157	ug/l	96
80) 1,3,5-Trimethylbenzene	13.171	105	514612	58.774	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	68031	57.659	ug/l #	81
82) 4-Chlorotoluene	13.218	91	445323	55.070	ug/l	97
83) tert-Butylbenzene	13.435	119	411462	55.960	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	519388	59.518	ug/l	98
85) sec-Butylbenzene	13.612	105	605413	59.408	ug/l	99
86) p-Isopropyltoluene	13.729	119	506039	54.534	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	277733	54.455	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	278955	52.768	ug/l	97
89) n-Butylbenzene	14.053	91	429742	58.781	ug/l	99
90) Hexachloroethane	14.329	117	98723	50.887	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	266234	52.333	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33244	48.620	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	124629	52.709	ug/l	98
94) Hexachlorobutadiene	15.500	225	60840	48.466	ug/l	99
95) Naphthalene	15.641	128	394392	55.897	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	125197	52.330	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085645.D
Acq On : 04 Feb 2025 11:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

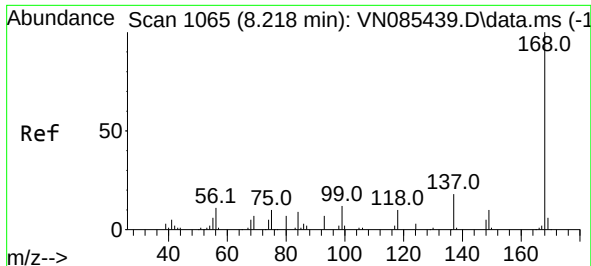
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Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

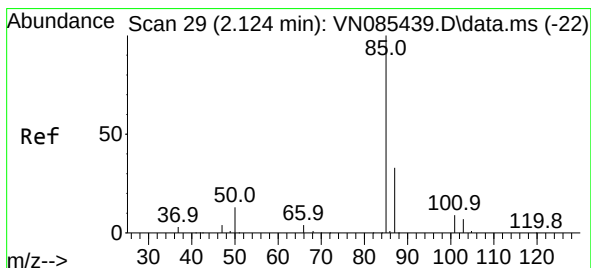
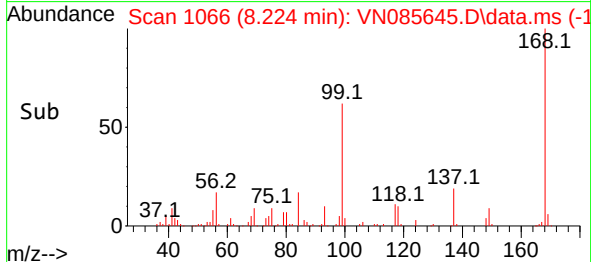
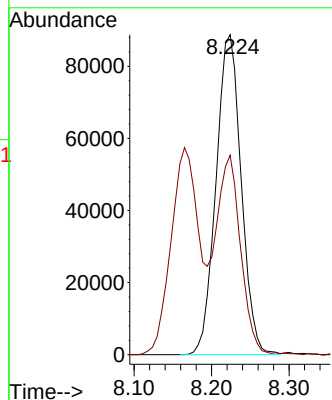
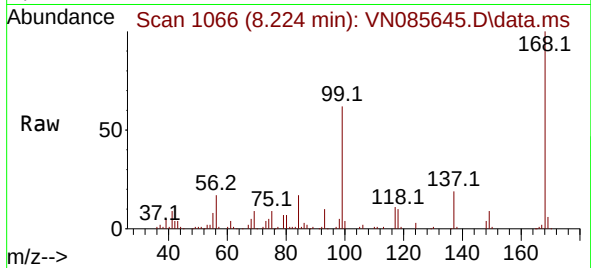
[illegible]



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

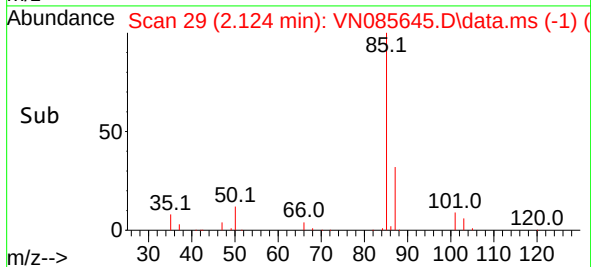
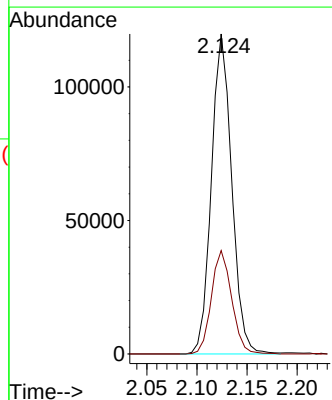
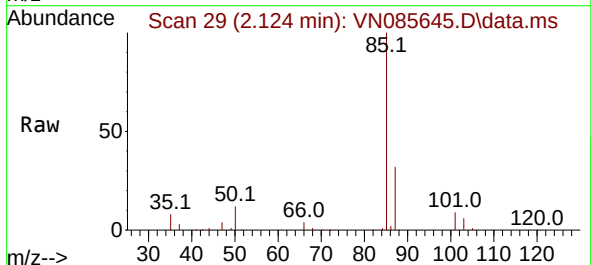
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

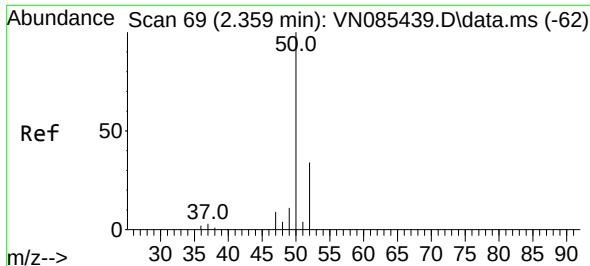
Tgt Ion:168 Resp: 200704
Ion Ratio Lower Upper
168 100
99 62.0 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 62.124 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 85 Resp: 168819
Ion Ratio Lower Upper
85 100
87 32.3 16.7 50.1

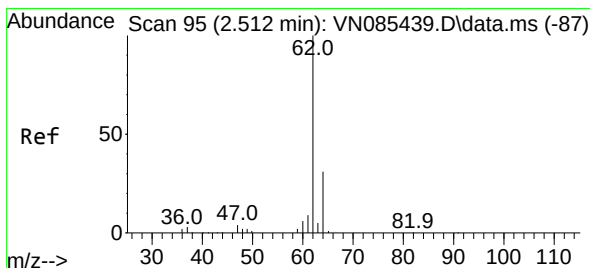
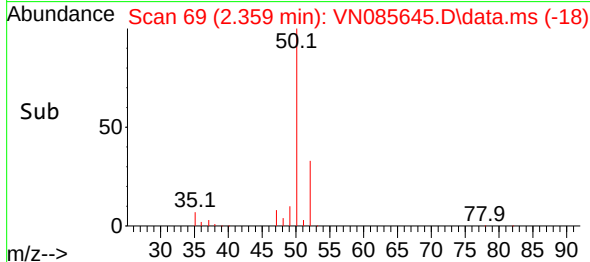
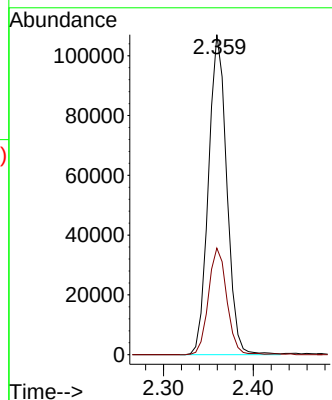
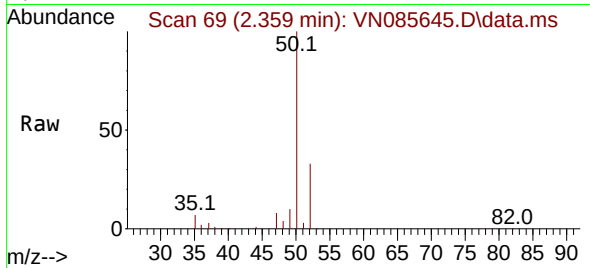




#3
Chloromethane
Concen: 51.538 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

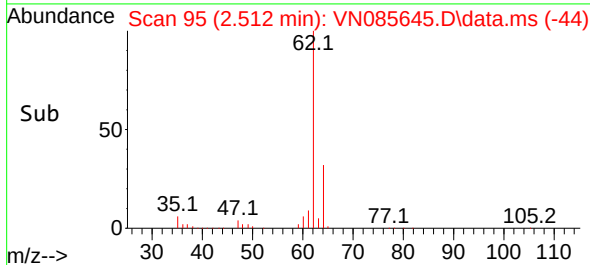
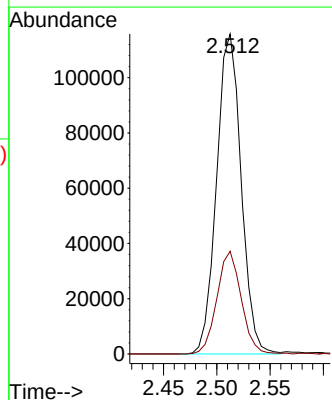
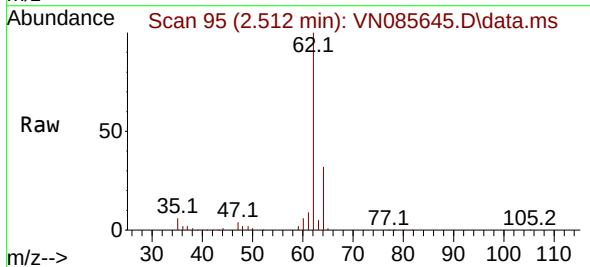
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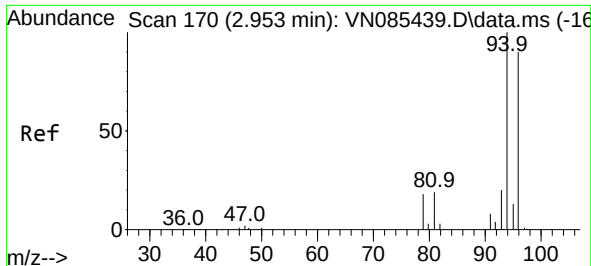
Tgt Ion: 50 Resp: 151639
Ion Ratio Lower Upper
50 100
52 33.3 27.0 40.6



#4
Vinyl Chloride
Concen: 62.678 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 62 Resp: 185363
Ion Ratio Lower Upper
62 100
64 32.1 24.8 37.2

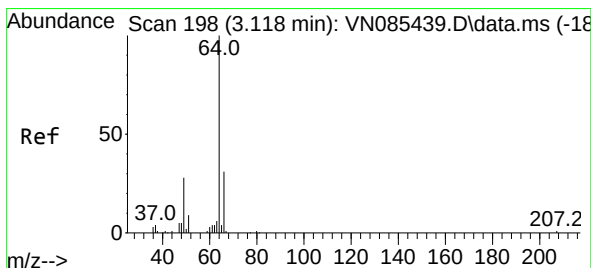
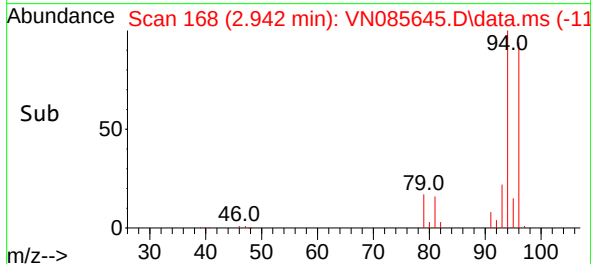
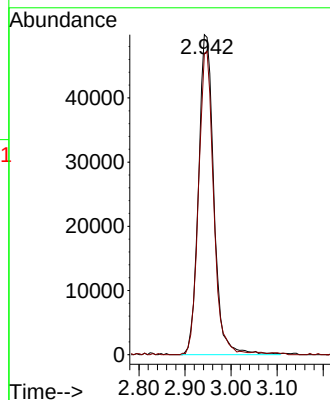
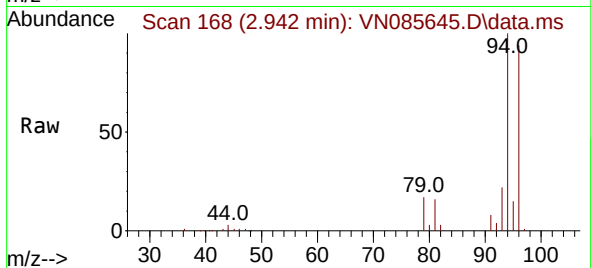




#5
Bromomethane
Concen: 64.931 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

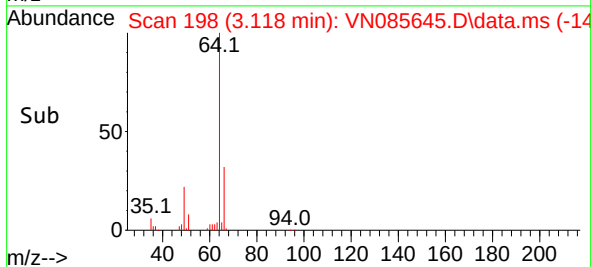
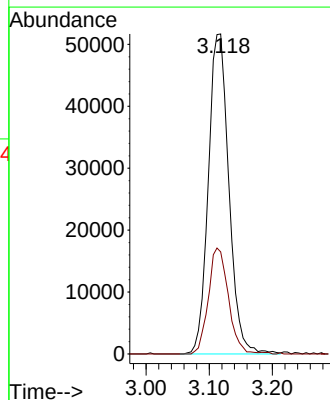
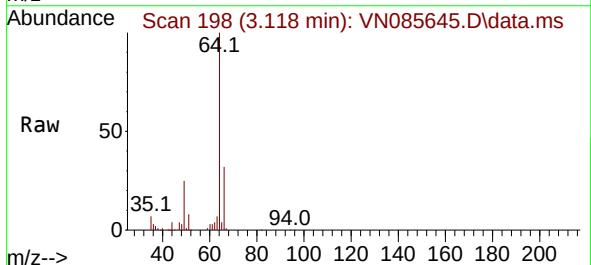
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MSVOA_N
ClientSampleId :
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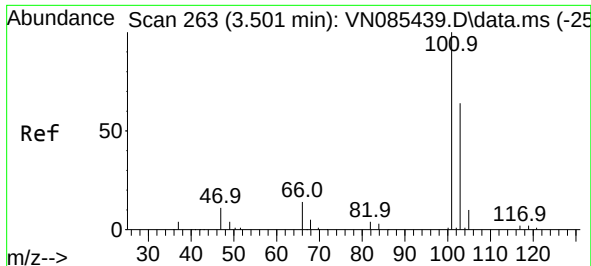
Tgt Ion: 94 Resp: 115992
Ion Ratio Lower Upper
94 100
96 94.0 71.8 107.6



#6
Chloroethane
Concen: 62.391 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 64 Resp: 116980
Ion Ratio Lower Upper
64 100
66 31.9 24.6 36.8

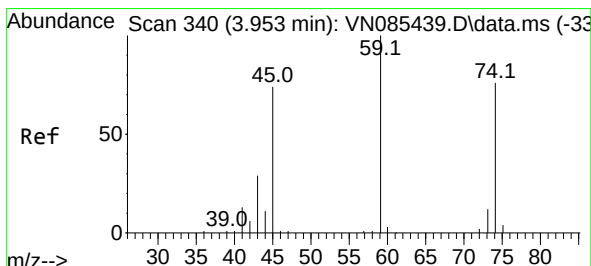
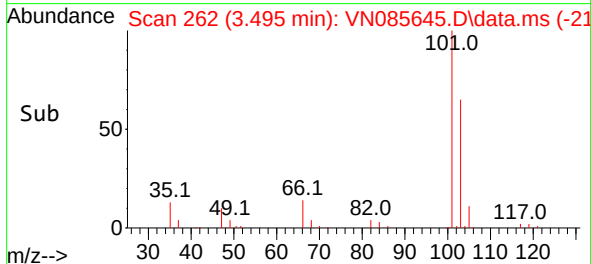
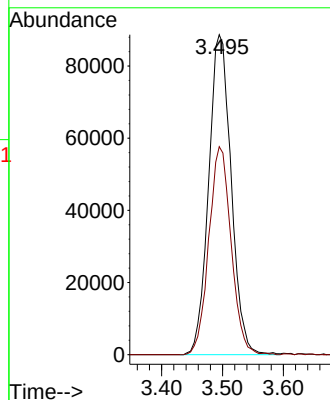
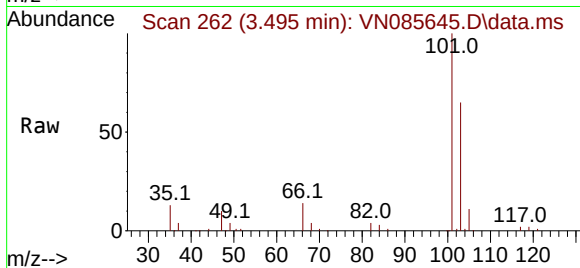




#7
 Trichlorofluoromethane
 Concen: 53.087 ug/l
 RT: 3.495 min Scan# 210
 Delta R.T. -0.006 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

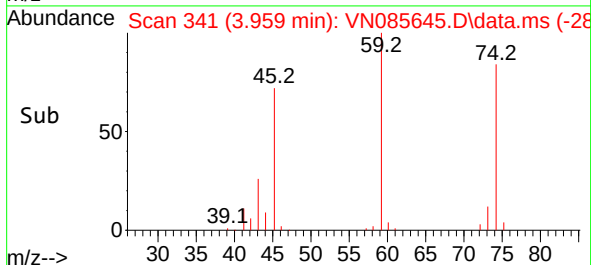
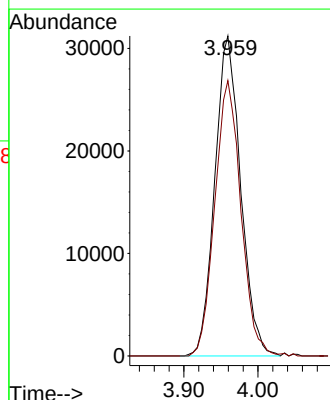
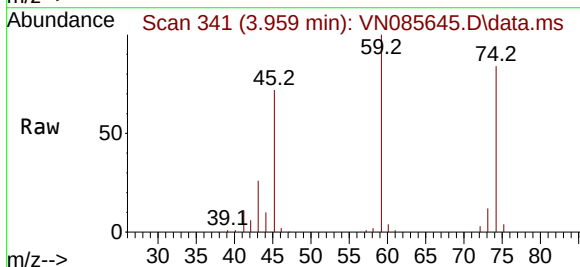
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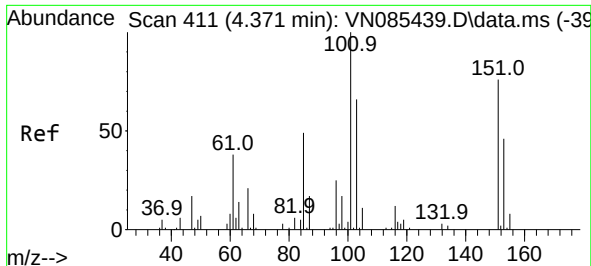
Tgt Ion:101 Resp: 227801
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.4 77.2



#8
 Diethyl Ether
 Concen: 51.037 ug/l
 RT: 3.959 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

Tgt Ion: 74 Resp: 75659
 Ion Ratio Lower Upper
 74 100
 45 87.0 49.7 149.1

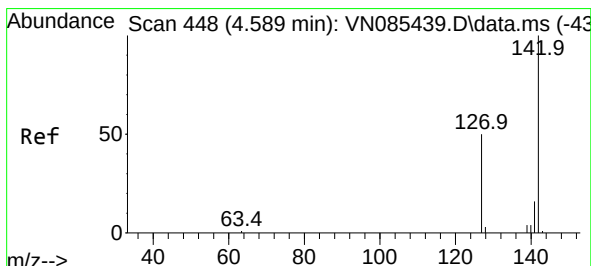
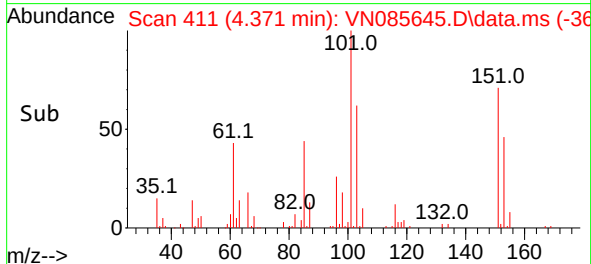
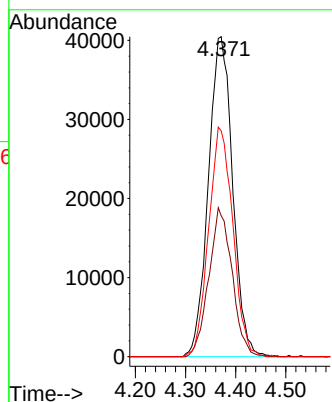
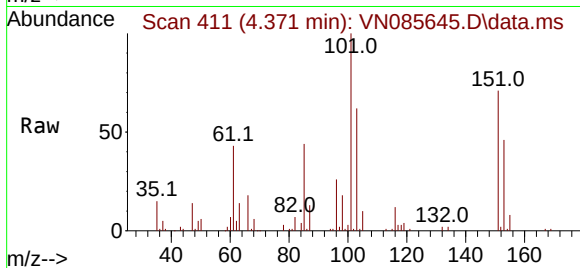




#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.291 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

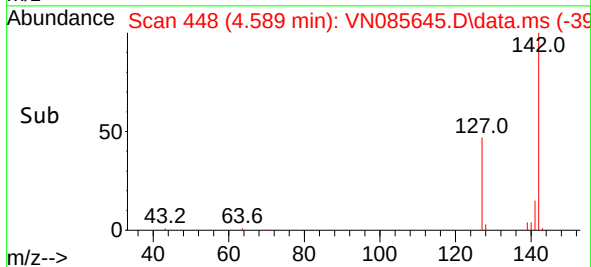
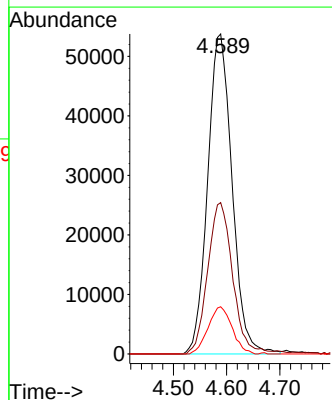
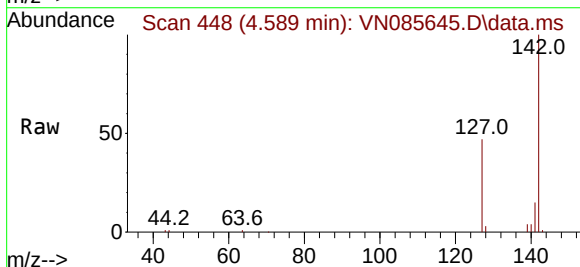
Instrument :
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ClientSampleId :
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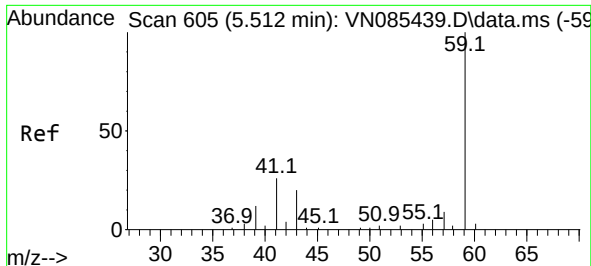
Tgt Ion:101 Resp: 136051
Ion Ratio Lower Upper
101 100
85 44.6 37.8 56.8
151 71.5 58.8 88.2



#10
Methyl Iodide
Concen: 61.814 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:142 Resp: 171090
Ion Ratio Lower Upper
142 100
127 47.3 40.3 60.5
141 14.8 12.8 19.2

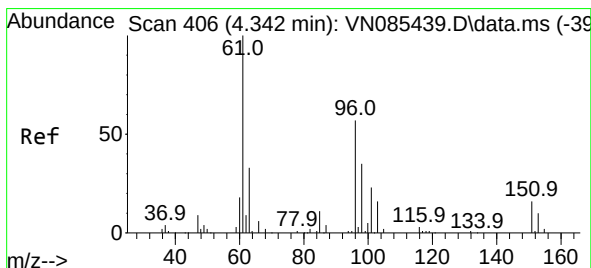
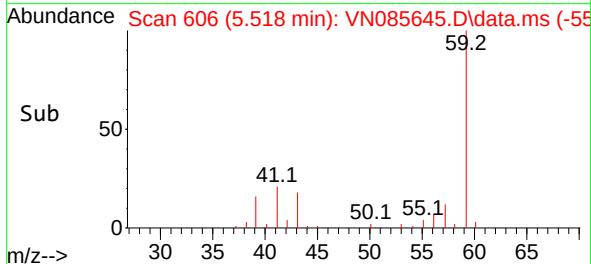
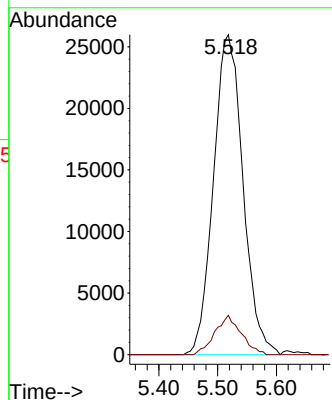
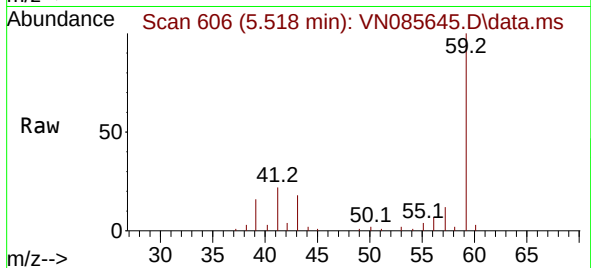




#11
Tert butyl alcohol
Concen: 244.210 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

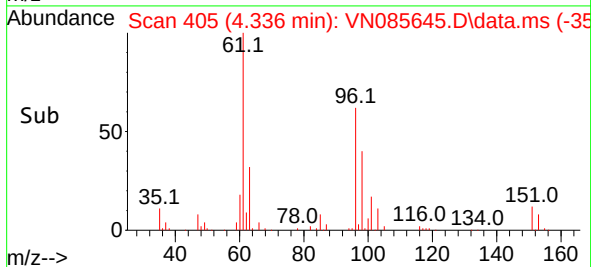
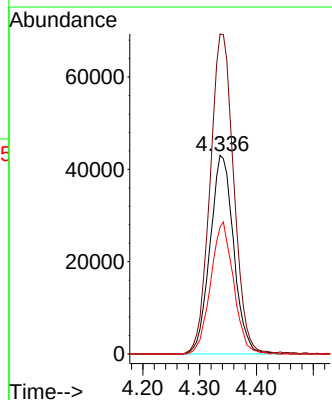
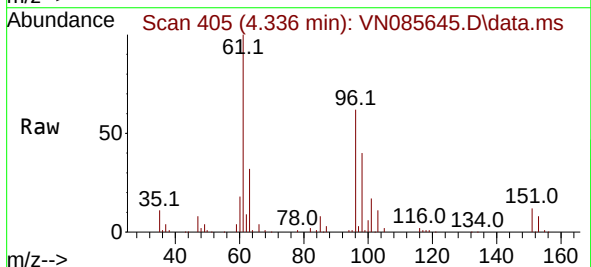
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

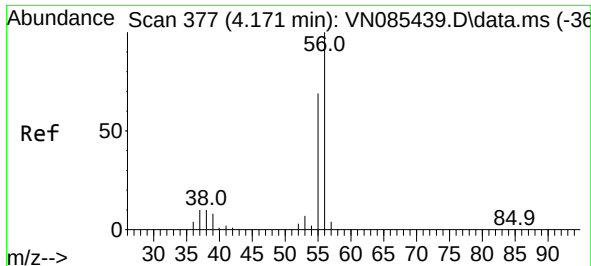
Tgt Ion: 59 Resp: 90596
Ion Ratio Lower Upper
59 100
57 10.9 8.6 13.0



#12
1,1-Dichloroethene
Concen: 57.812 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 96 Resp: 124529
Ion Ratio Lower Upper
96 100
61 161.2 141.0 211.4
98 63.9 49.0 73.6

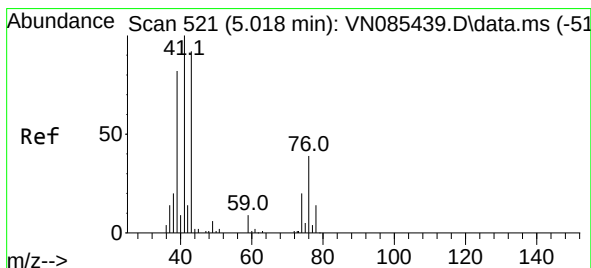
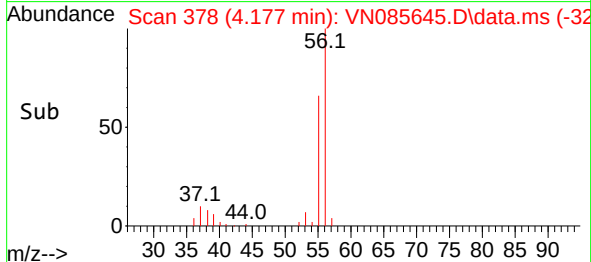
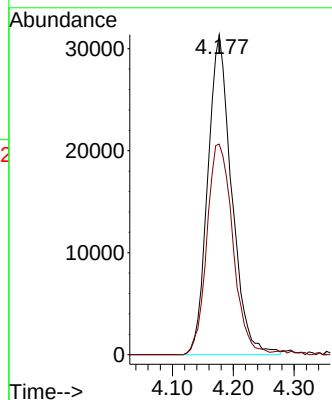
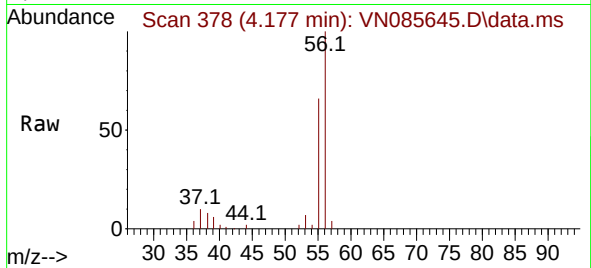




#13
Acrolein
Concen: 168.697 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

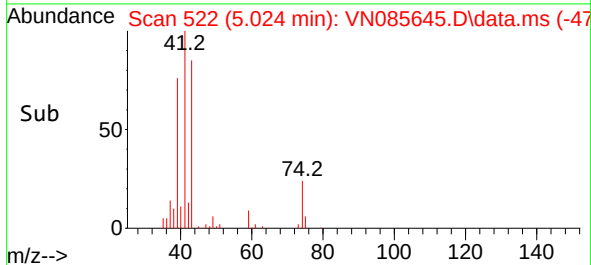
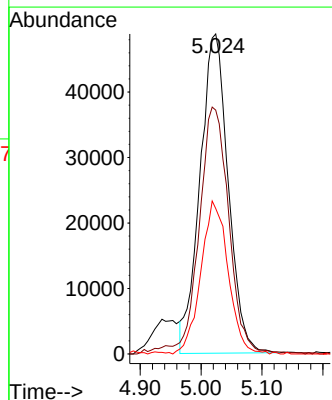
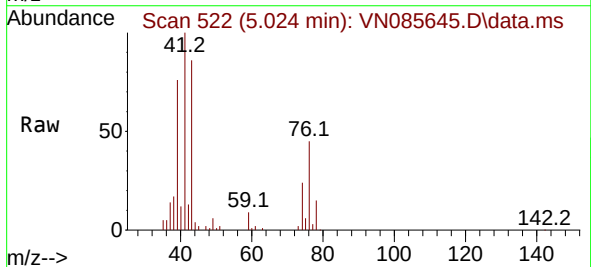
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

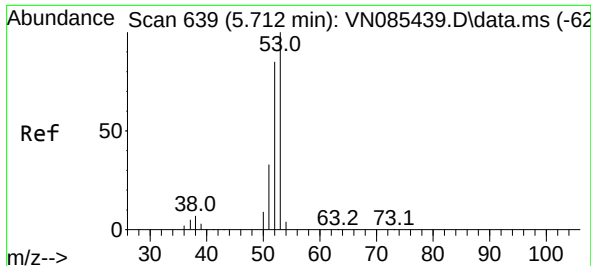
Tgt Ion: 56 Resp: 85431
Ion Ratio Lower Upper
56 100
55 71.5 56.3 84.5



#14
Allyl chloride
Concen: 44.944 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 41 Resp: 157091
Ion Ratio Lower Upper
41 100
39 82.1 64.4 96.6
76 46.3 30.5 45.7#

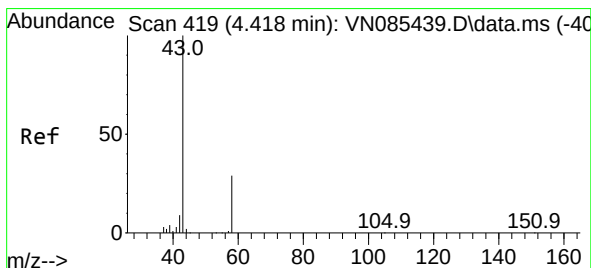
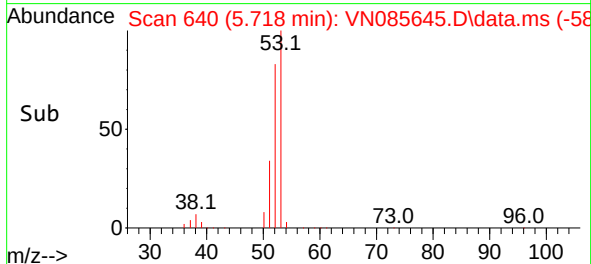
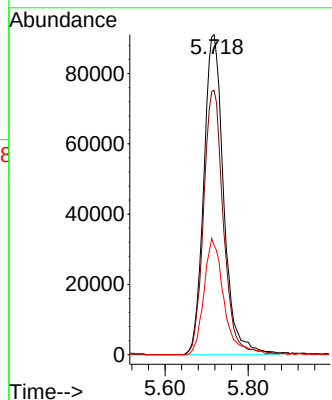
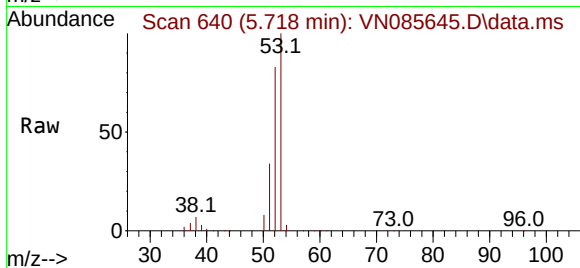




#15
Acrylonitrile
Concen: 257.863 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

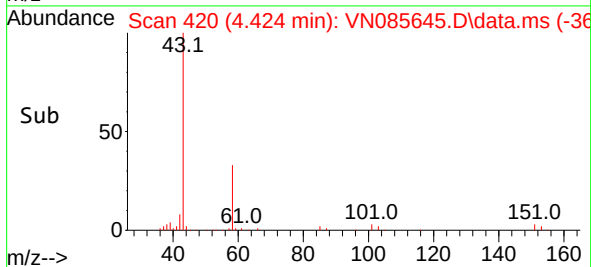
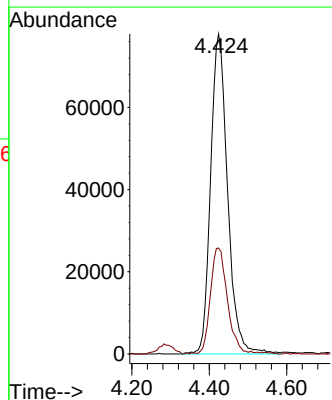
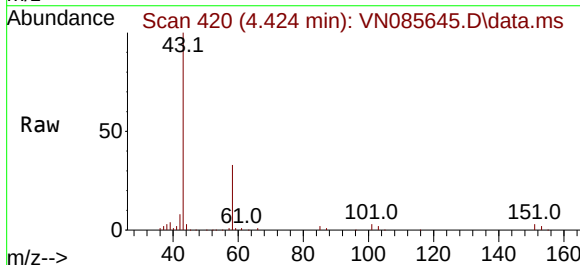
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

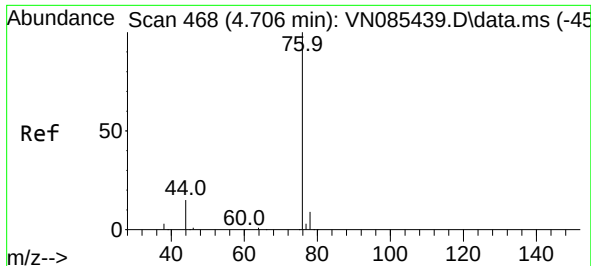
Tgt Ion: 53 Resp: 303850
Ion Ratio Lower Upper
53 100
52 82.0 65.5 98.3
51 36.3 29.8 44.8



#16
Acetone
Concen: 225.997 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 43 Resp: 236574
Ion Ratio Lower Upper
43 100
58 33.1 23.8 35.6

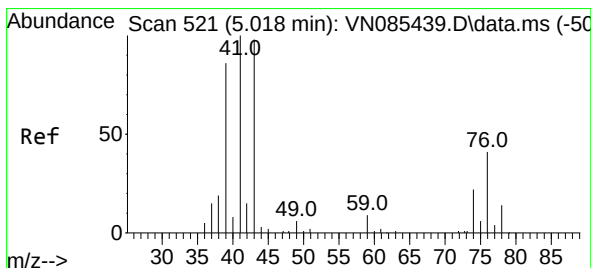
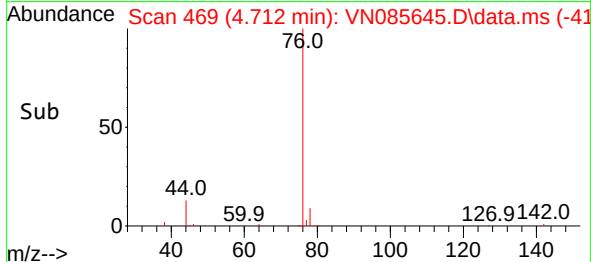
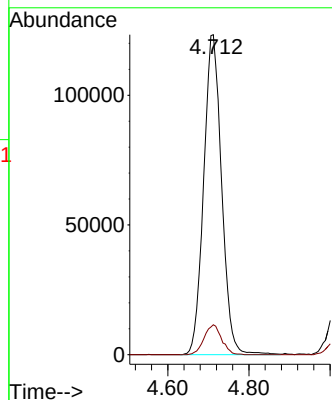
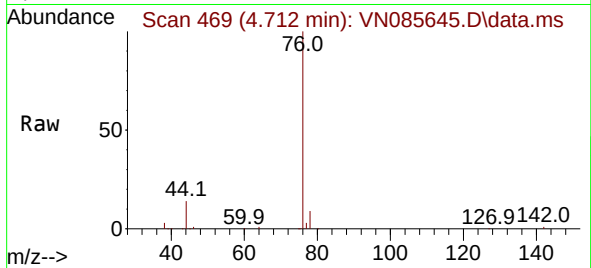




#17
Carbon Disulfide
Concen: 57.001 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

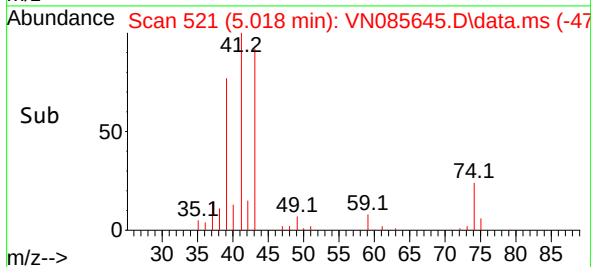
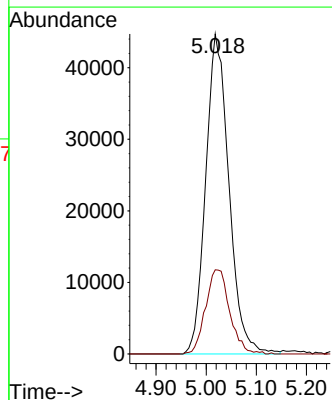
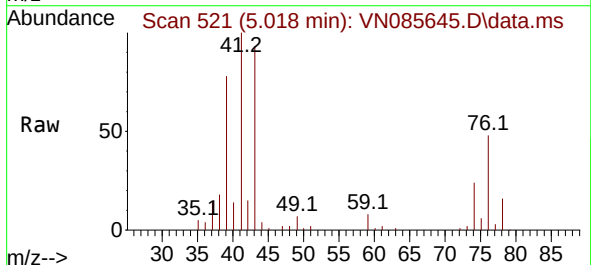
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

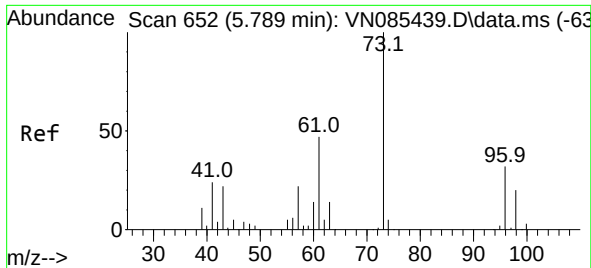
Tgt Ion: 76 Resp: 378039
Ion Ratio Lower Upper
76 100
78 9.4 6.9 10.3



#18
Methyl Acetate
Concen: 45.225 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 43 Resp: 143957
Ion Ratio Lower Upper
43 100
74 27.3 18.6 28.0

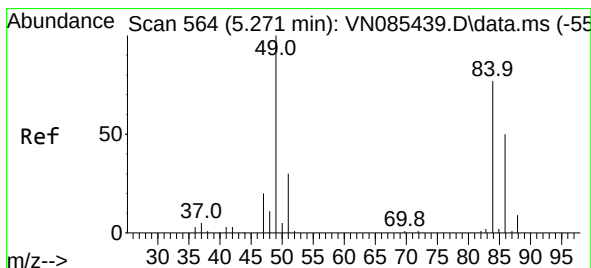
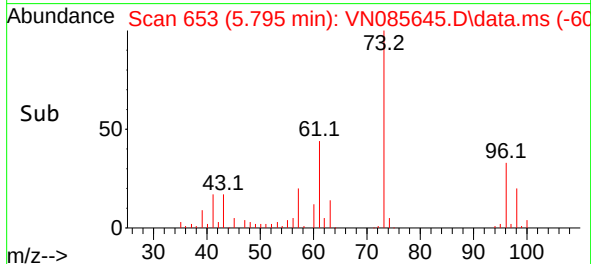
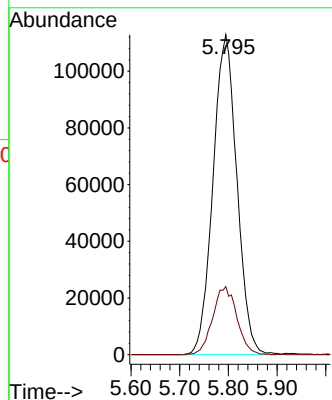
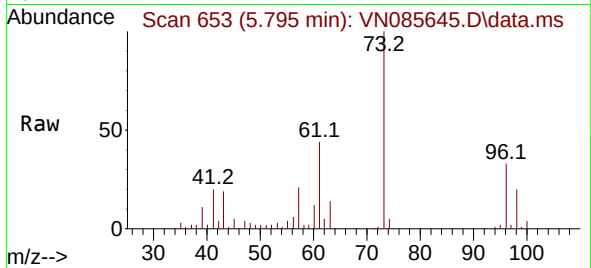




#19
Methyl tert-butyl Ether
Concen: 55.039 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

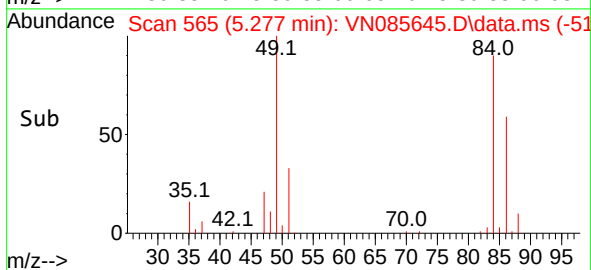
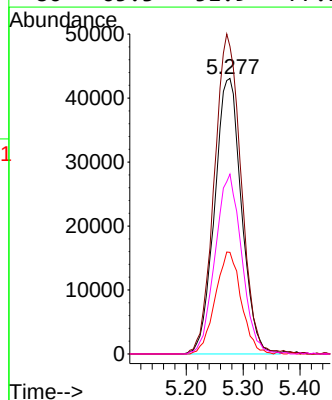
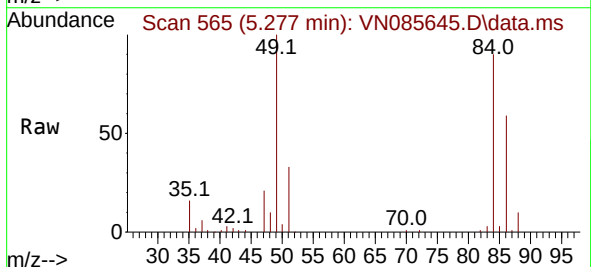
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

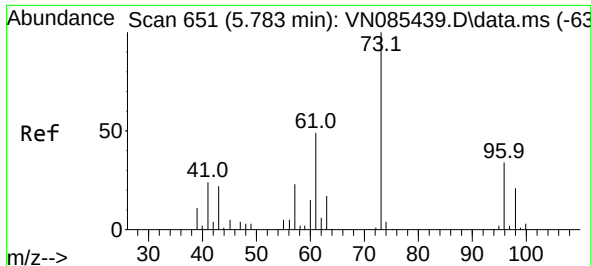
Tgt Ion: 73 Resp: 384956
Ion Ratio Lower Upper
73 100
57 21.2 17.8 26.8



#20
Methylene Chloride
Concen: 54.697 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 84 Resp: 141744
Ion Ratio Lower Upper
84 100
49 111.6 104.1 156.1
51 36.9 31.0 46.4
86 65.3 51.9 77.9

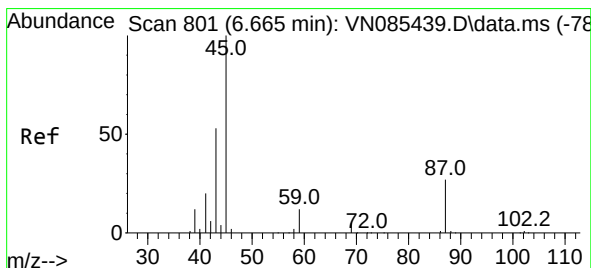
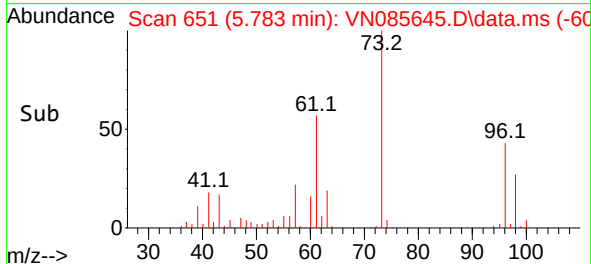
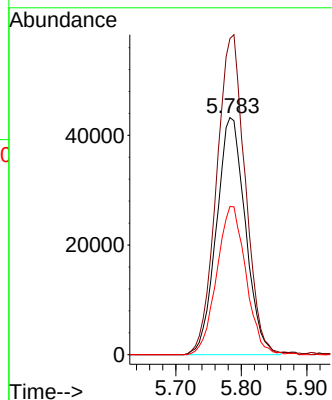
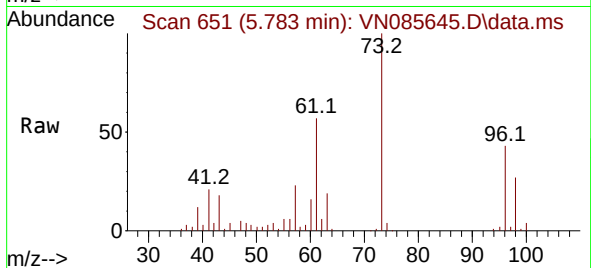




#21
trans-1,2-Dichloroethene
Concen: 57.502 ug/l
RT: 5.783 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

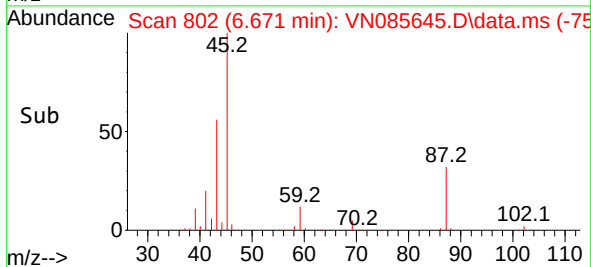
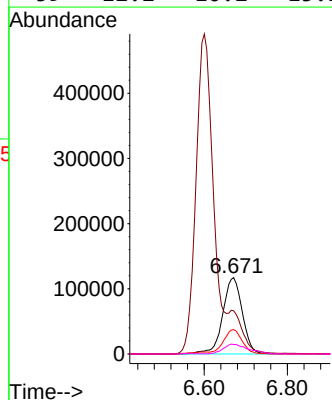
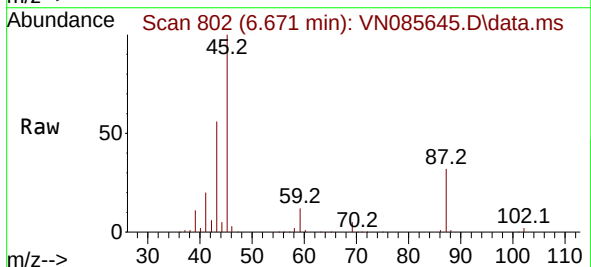
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

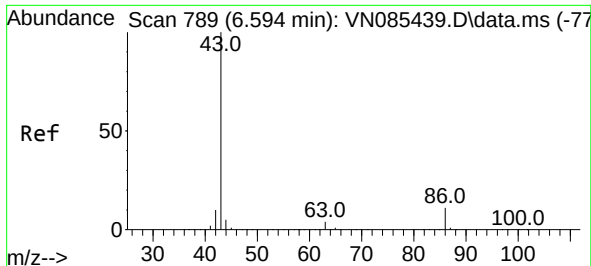
Tgt Ion: 96 Resp: 132371
Ion Ratio Lower Upper
96 100
61 133.3 115.7 173.5
98 62.5 49.8 74.8



#22
Diisopropyl ether
Concen: 49.208 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 45 Resp: 381754
Ion Ratio Lower Upper
45 100
43 55.5 45.0 67.6
87 31.9 21.8 32.8
59 12.2 10.2 15.2

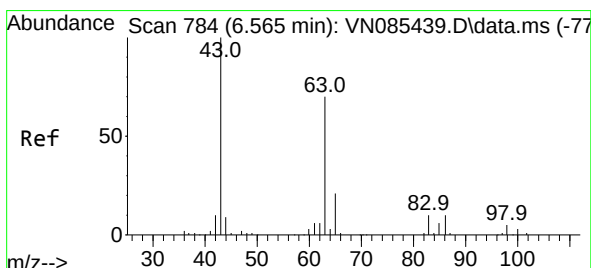
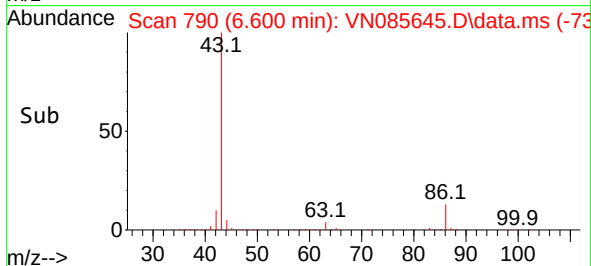
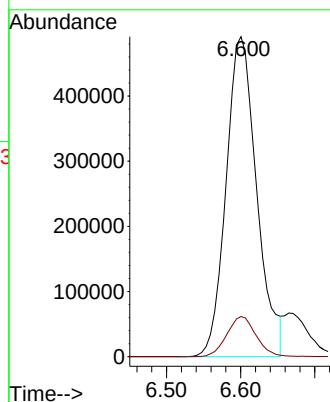
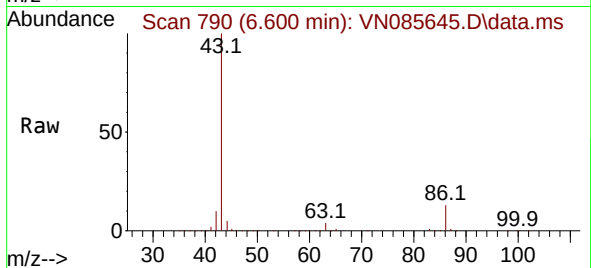




#23
 Vinyl Acetate
 Concen: 259.616 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

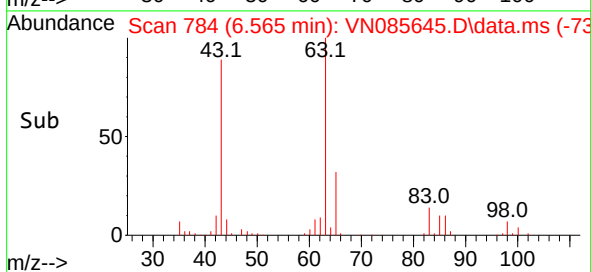
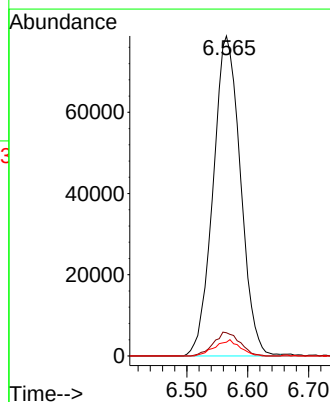
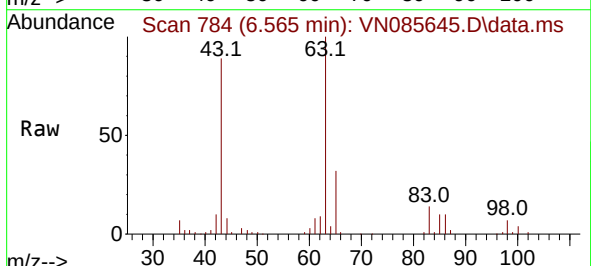
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

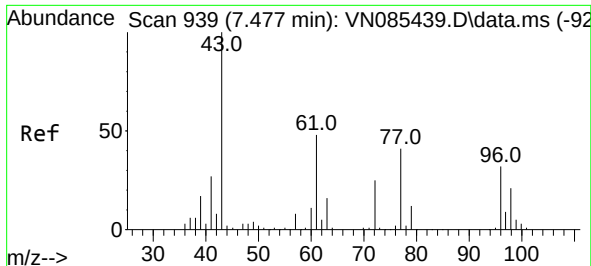
Tgt Ion: 43 Resp: 1409531
 Ion Ratio Lower Upper
 43 100
 86 12.5 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 51.962 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

Tgt Ion: 63 Resp: 245805
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.3 9.8
 100 4.3 2.0 6.0

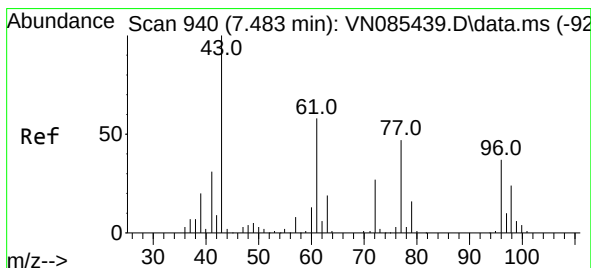
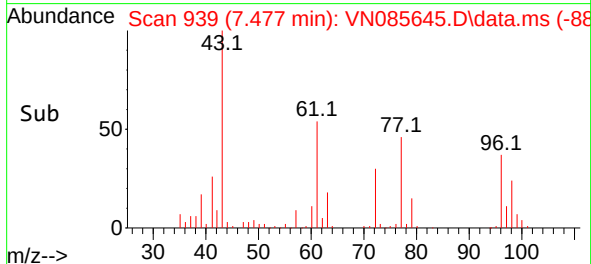
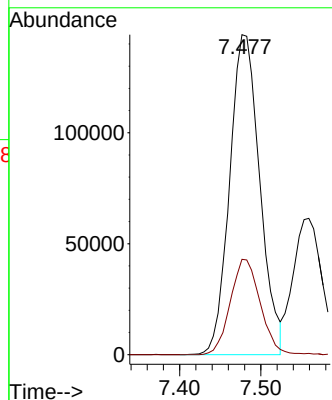
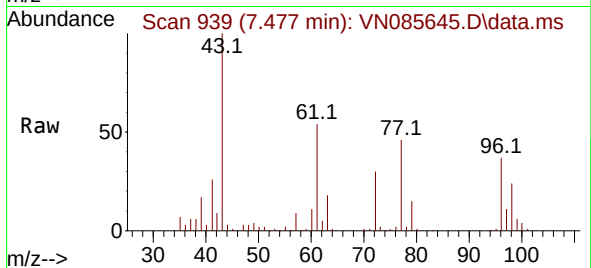




#25
2-Butanone
Concen: 241.685 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

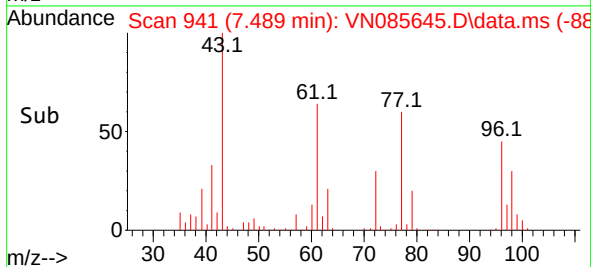
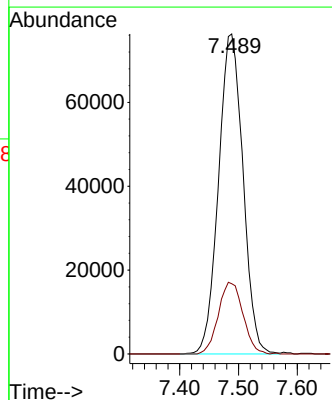
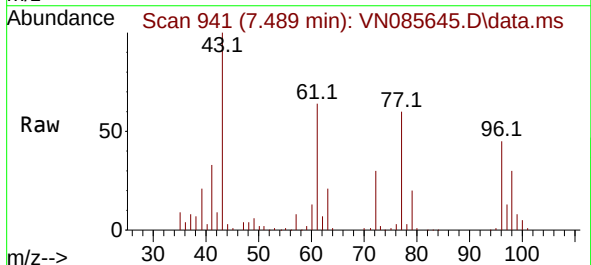
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

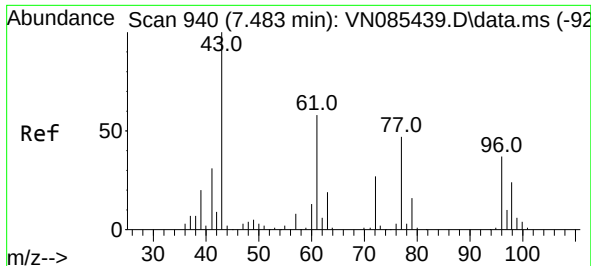
Tgt Ion: 43 Resp: 372307
Ion Ratio Lower Upper
43 100
72 29.8 20.2 30.4



#26
2,2-Dichloropropane
Concen: 57.562 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 77 Resp: 220150
Ion Ratio Lower Upper
77 100
97 22.5 10.7 32.1

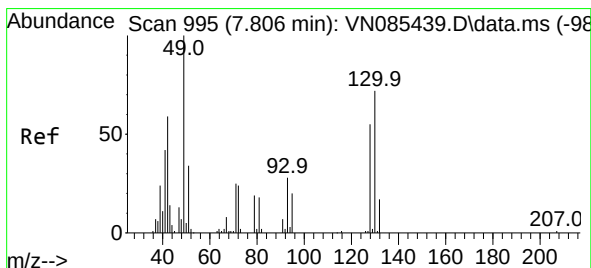
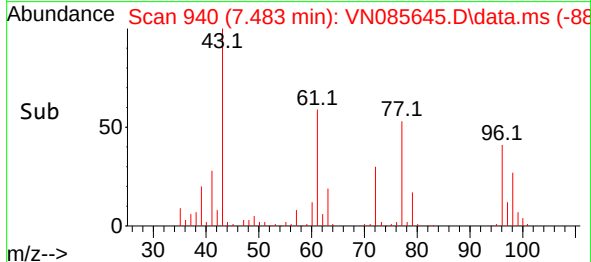
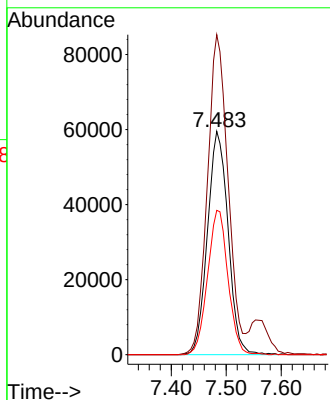
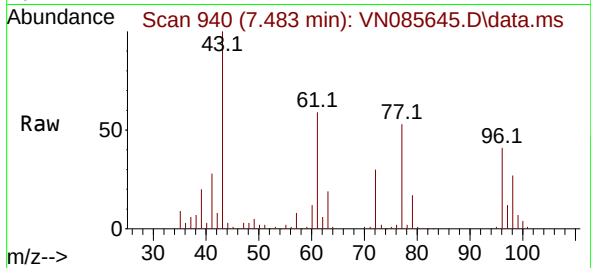




#27
 cis-1,2-Dichloroethene
 Concen: 57.208 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

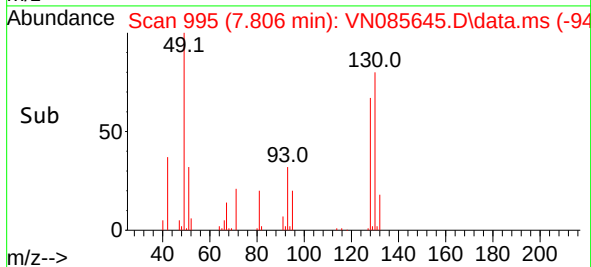
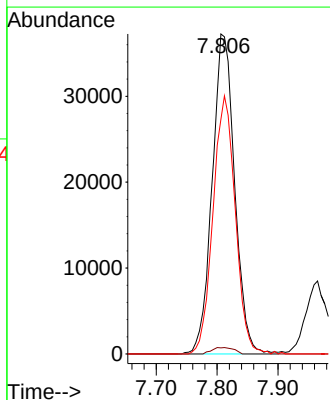
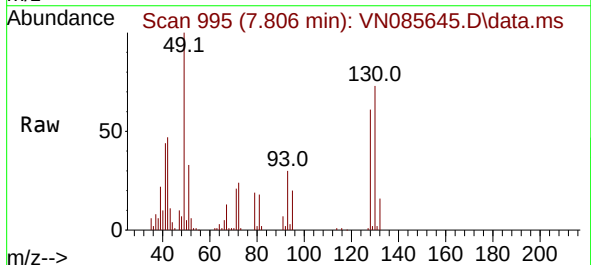
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

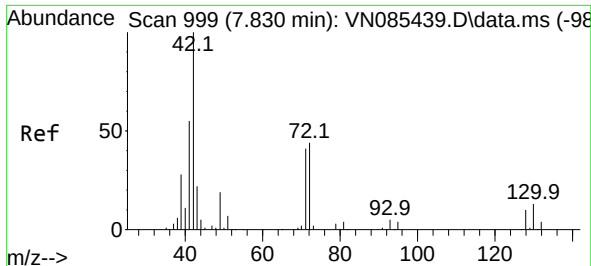
Tgt Ion: 96 Resp: 155112
 Ion Ratio Lower Upper
 96 100
 61 143.8 0.0 311.8
 98 64.1 0.0 126.0



#28
 Bromochloromethane
 Concen: 43.426 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

Tgt Ion: 49 Resp: 95572
 Ion Ratio Lower Upper
 49 100
 129 2.0 0.0 4.4
 130 79.8 55.0 82.4





#29

Tetrahydrofuran

Concen: 255.923 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

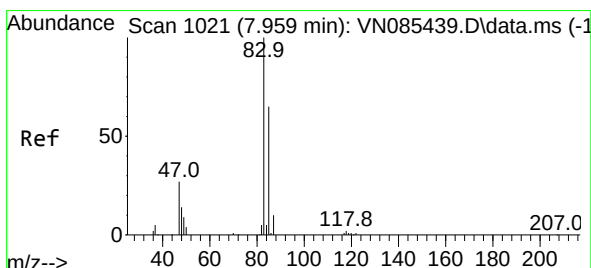
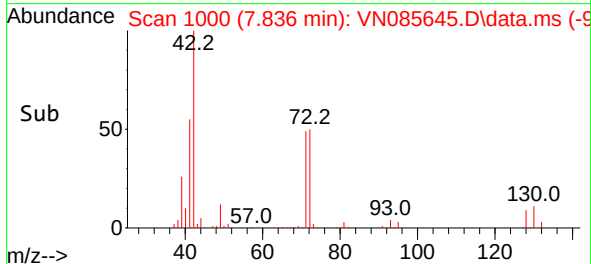
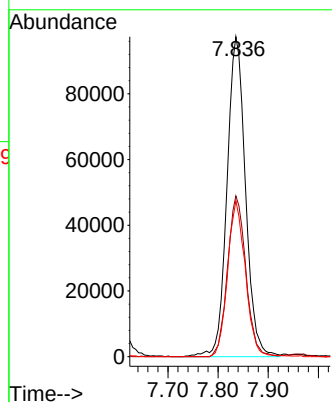
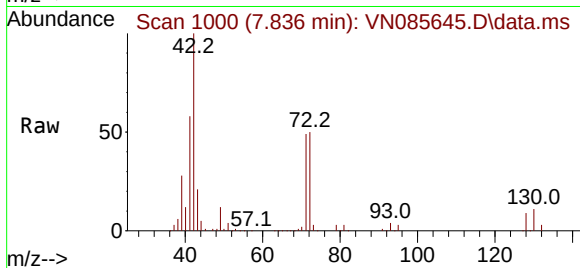
Tgt Ion: 42 Resp: 249949

Ion Ratio Lower Upper

42 100

72 49.7 34.2 51.2

71 46.9 32.5 48.7



#30

Chloroform

Concen: 51.611 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085645.D

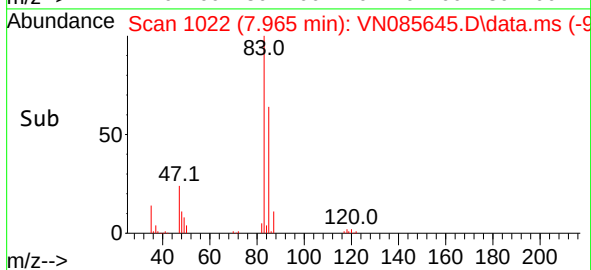
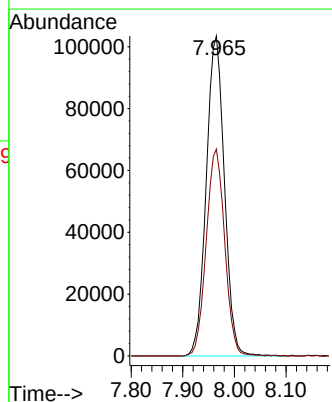
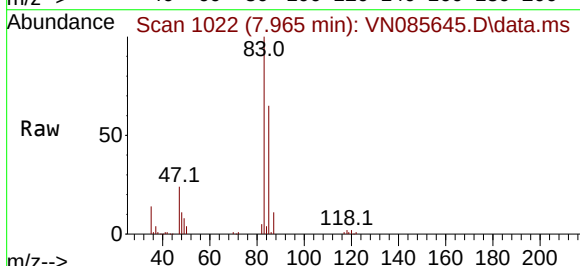
Acq: 04 Feb 2025 11:05

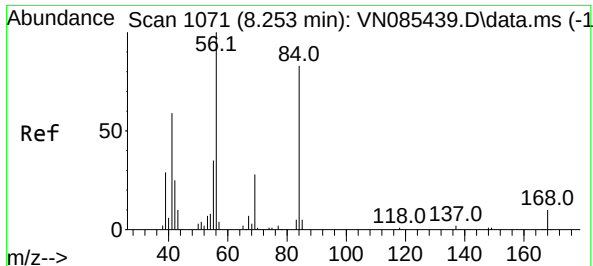
Tgt Ion: 83 Resp: 252335

Ion Ratio Lower Upper

83 100

85 64.7 51.8 77.6

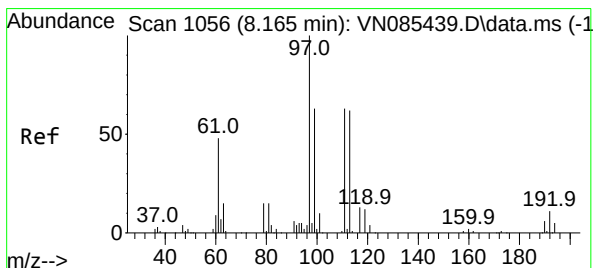
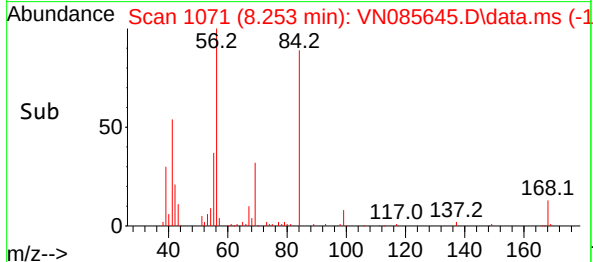
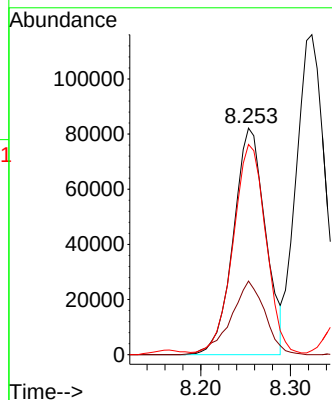
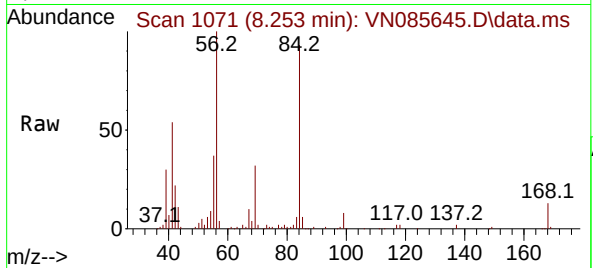




#31
Cyclohexane
Concen: 49.690 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

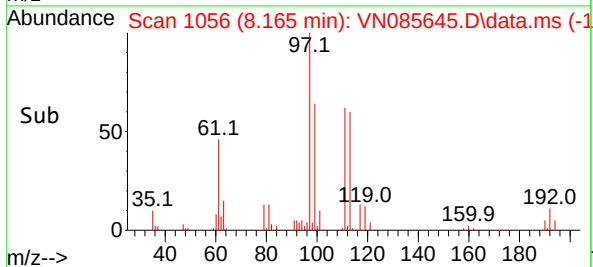
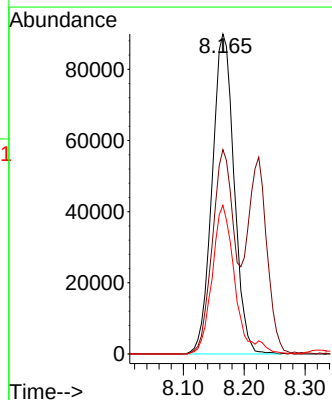
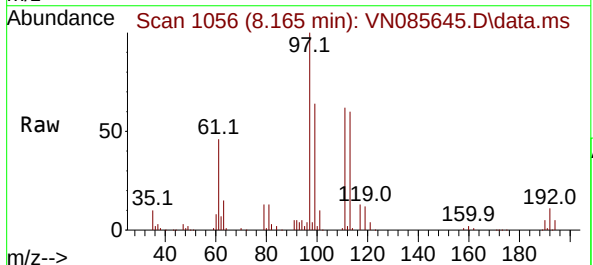
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

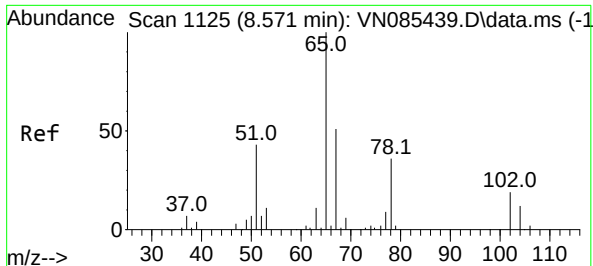
Tgt Ion:	56	Resp:	204306
Ion Ratio	Lower	Upper	
56	100		
69	32.5	22.2	33.4
84	91.5	66.4	99.6



#32
1,1,1-Trichloroethane
Concen: 52.509 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:	97	Resp:	225191
Ion Ratio	Lower	Upper	
97	100		
99	64.3	49.8	74.6
61	48.2	41.4	62.2





#33

1,2-Dichloroethane-d4

Concen: 47.780 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

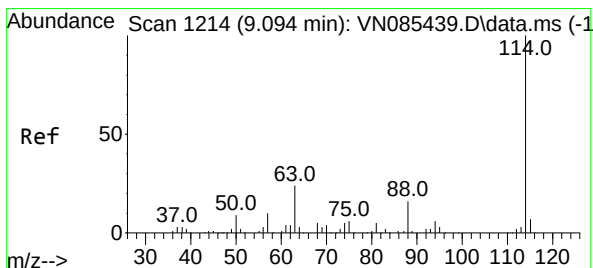
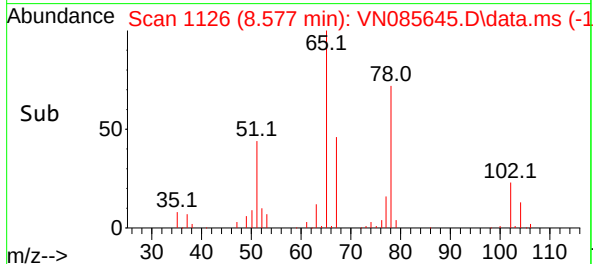
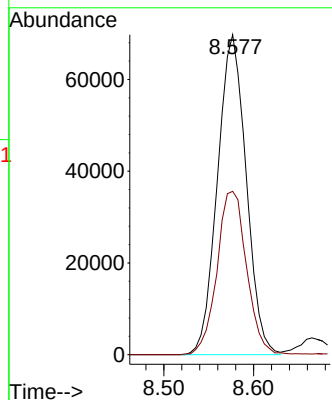
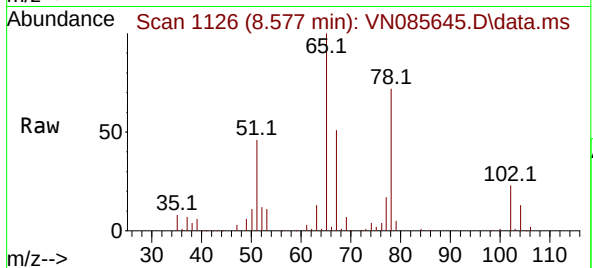
VSTDCCC050

Tgt Ion: 65 Resp: 154798

Ion Ratio Lower Upper

65 100

67 52.9 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

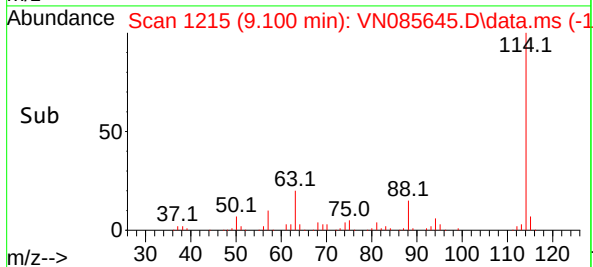
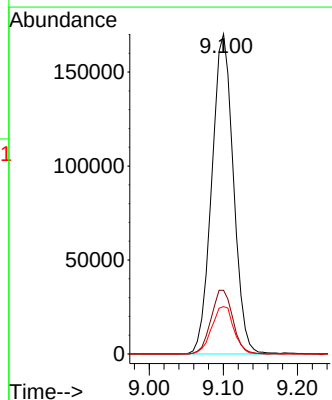
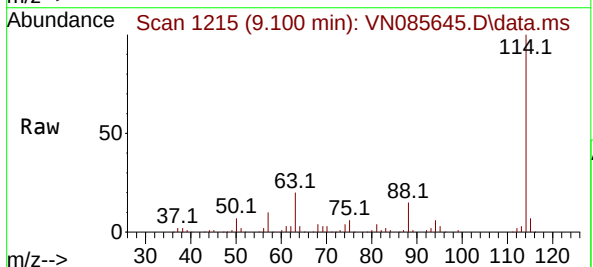
Tgt Ion: 114 Resp: 345148

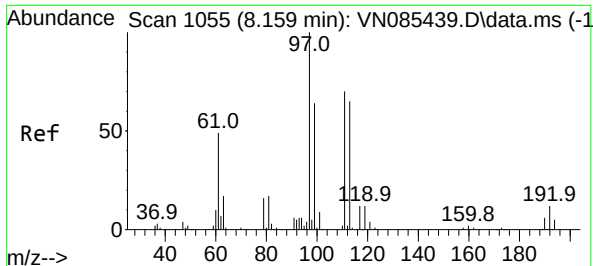
Ion Ratio Lower Upper

114 100

63 19.9 0.0 47.6

88 14.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.153 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

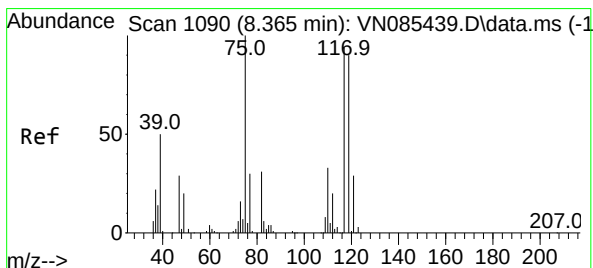
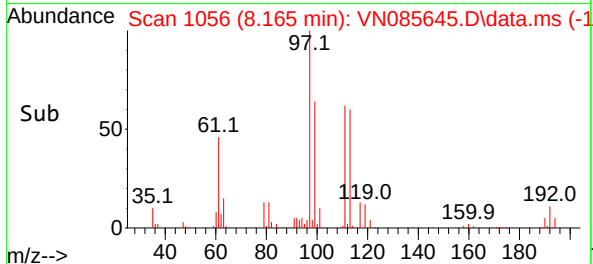
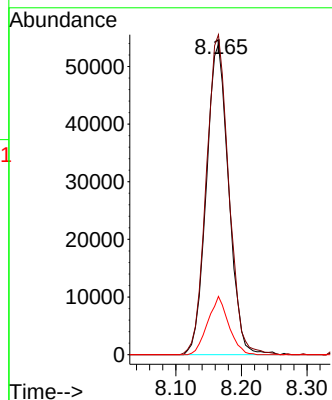
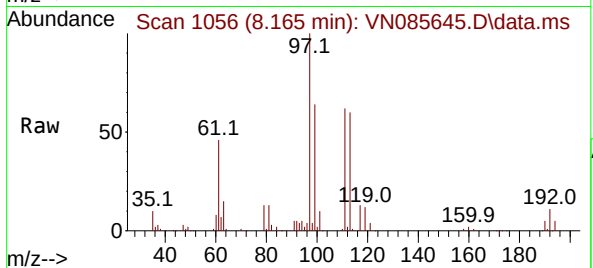
Tgt Ion:113 Resp: 127274

Ion Ratio Lower Upper

113 100

111 104.1 82.7 124.1

192 17.6 14.3 21.5



#36

1,1-Dichloropropene

Concen: 54.731 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

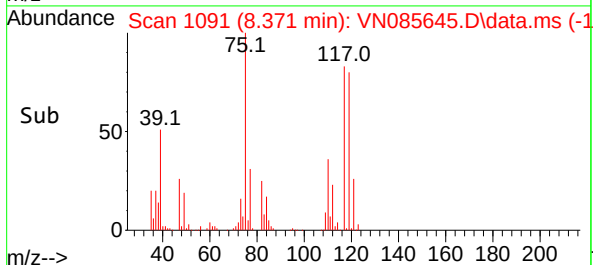
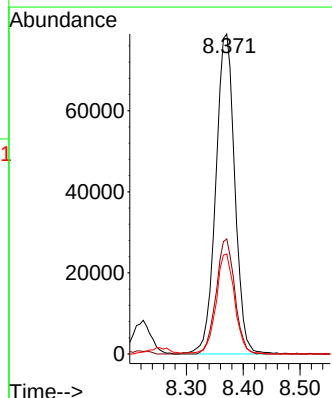
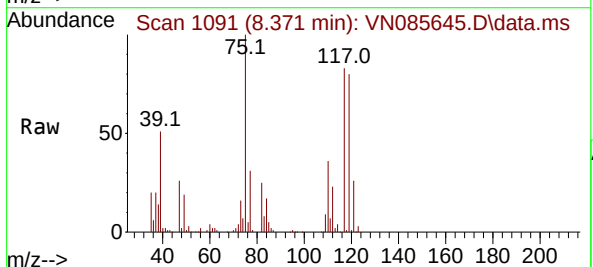
Tgt Ion: 75 Resp: 183927

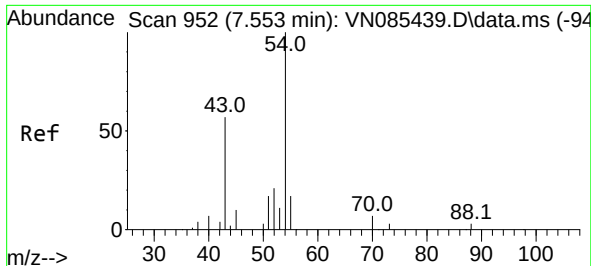
Ion Ratio Lower Upper

75 100

110 35.1 16.5 49.5

77 30.7 24.4 36.6





#37

Ethyl Acetate

Concen: 46.933 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

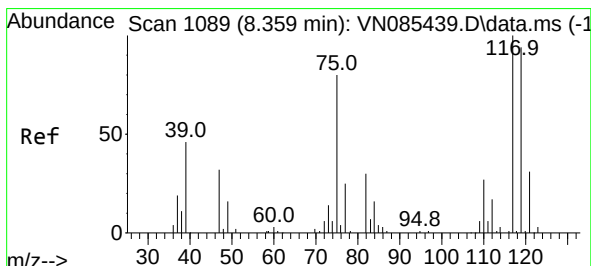
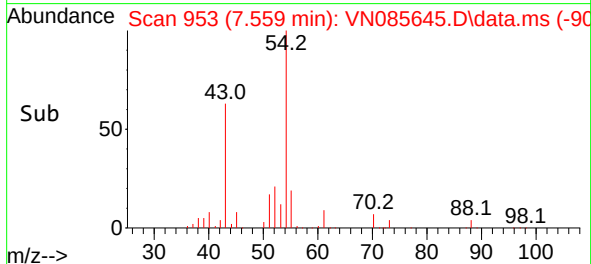
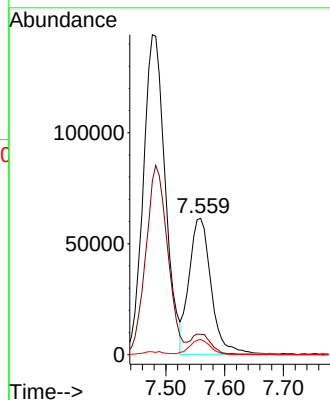
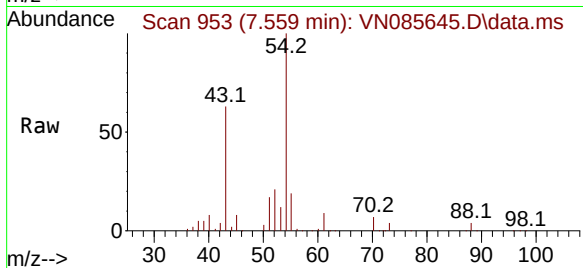
Tgt Ion: 43 Resp: 159199

Ion Ratio Lower Upper

43 100

61 14.2 10.9 16.3

70 10.4 7.5 11.3



#38

Carbon Tetrachloride

Concen: 52.524 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

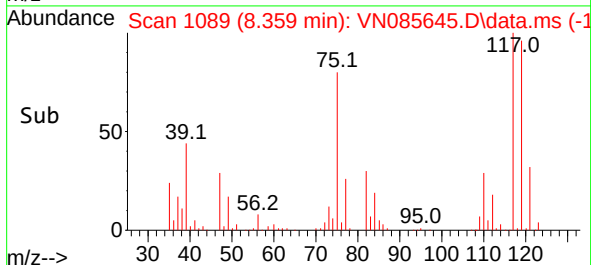
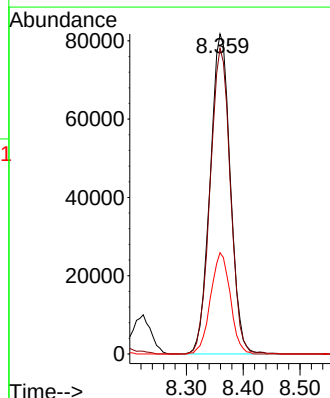
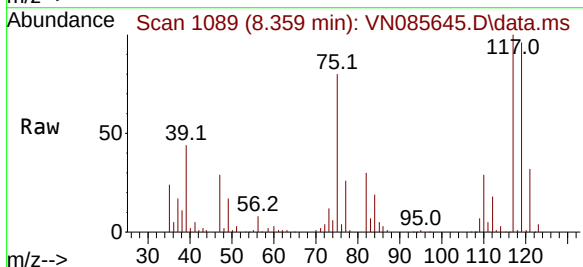
Tgt Ion: 117 Resp: 202078

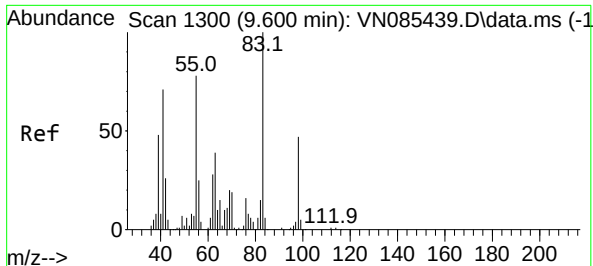
Ion Ratio Lower Upper

117 100

119 95.5 75.4 113.2

121 31.6 24.6 37.0





#39

Methylcyclohexane

Concen: 62.021 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

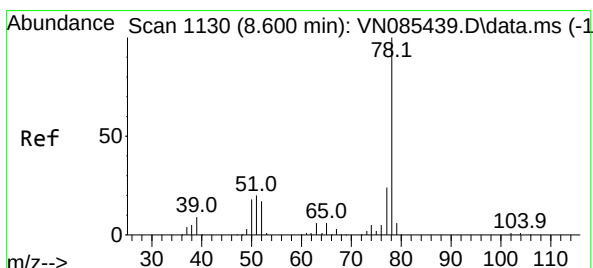
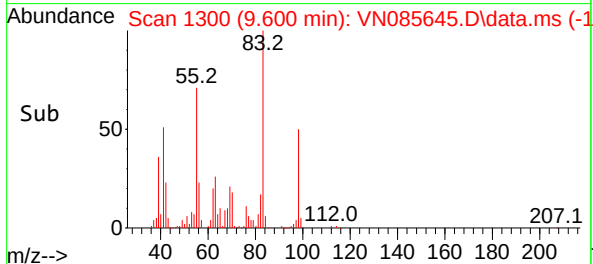
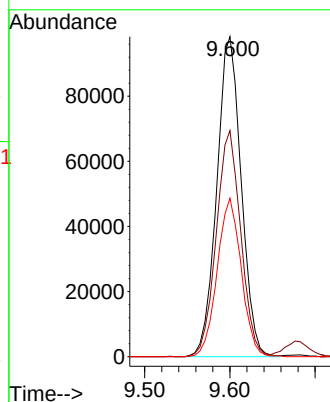
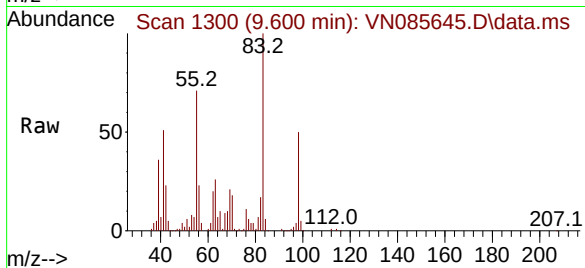
Tgt Ion: 83 Resp: 195859

Ion Ratio Lower Upper

83 100

55 70.7 62.6 94.0

98 49.5 37.7 56.5



#40

Benzene

Concen: 56.166 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085645.D

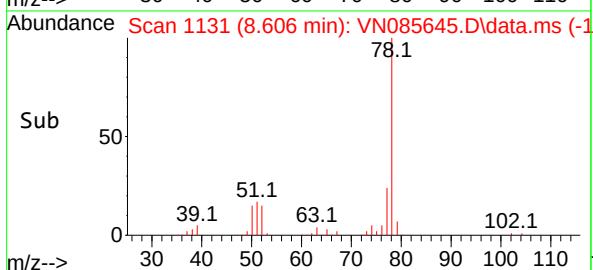
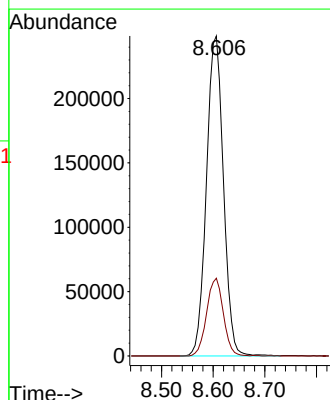
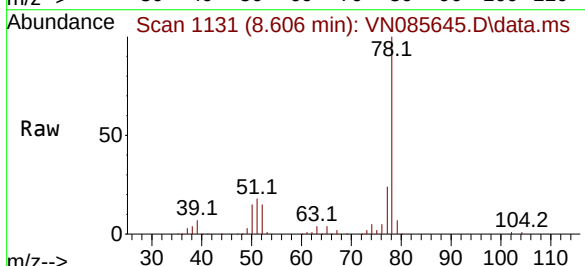
Acq: 04 Feb 2025 11:05

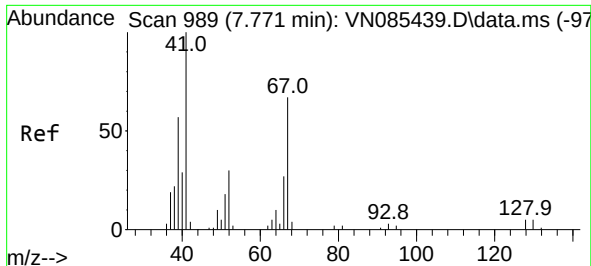
Tgt Ion: 78 Resp: 567137

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.6

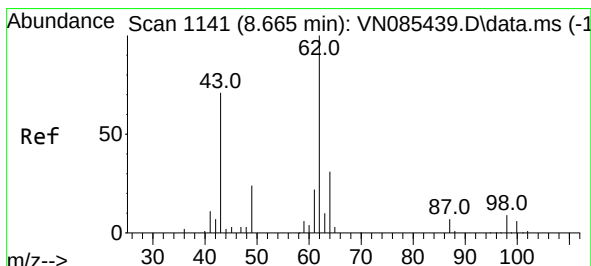
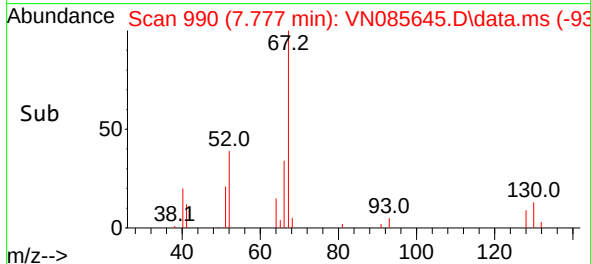
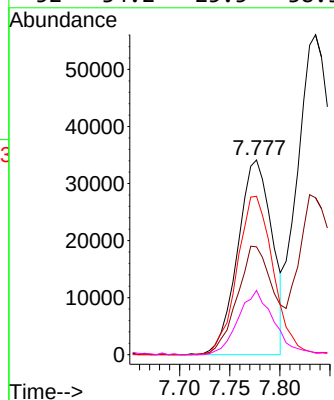
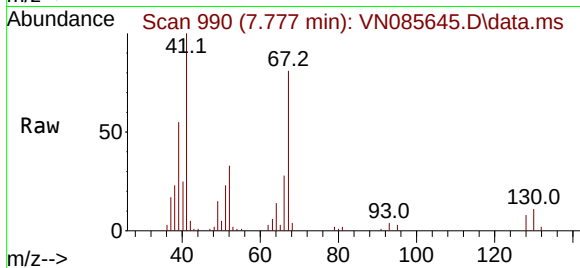




#41
Methacrylonitrile
Concen: 46.204 ug/l
RT: 7.777 min Scan# 989
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

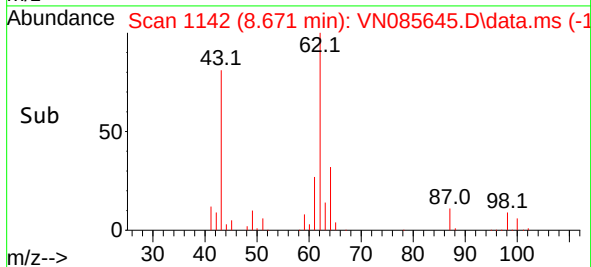
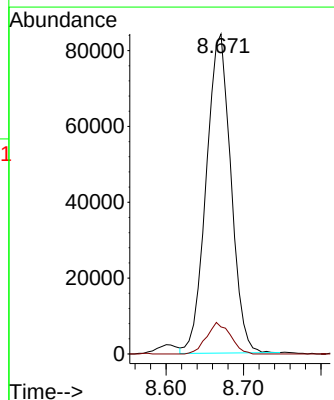
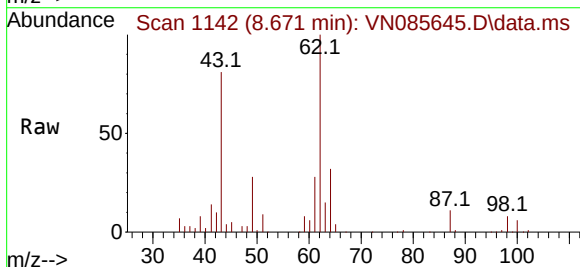
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

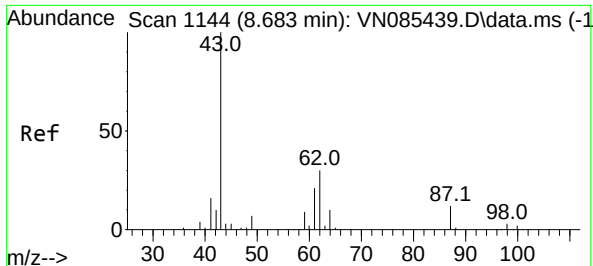
Tgt Ion: 41	Resp: 81539
Ion Ratio	Lower Upper
41 100	
39 60.2	46.0 69.0
67 85.5	57.4 86.2
52 34.2	25.5 38.3



#42
1,2-Dichloroethane
Concen: 48.850 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 62	Resp: 185776
Ion Ratio	Lower Upper
62 100	
98 9.5	0.0 17.0

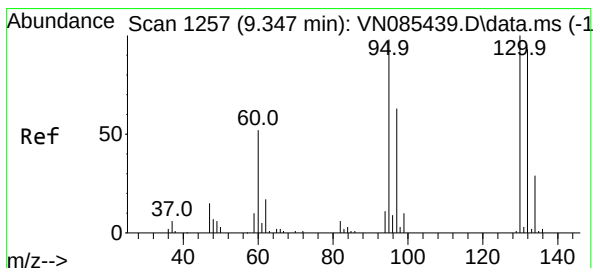
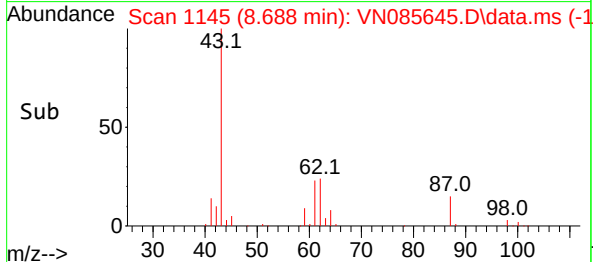
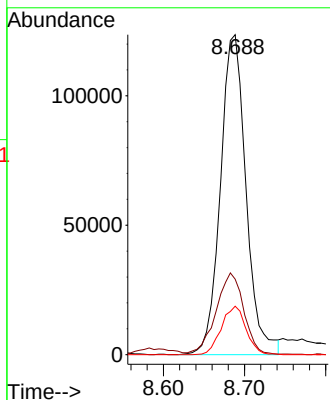
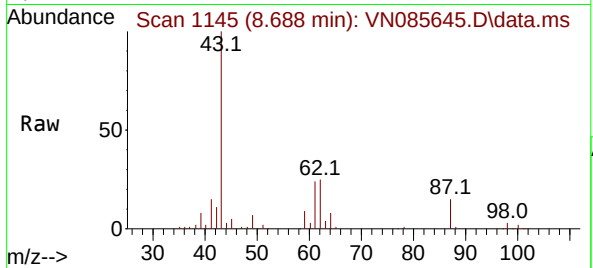




#43
Isopropyl Acetate
Concen: 49.962 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

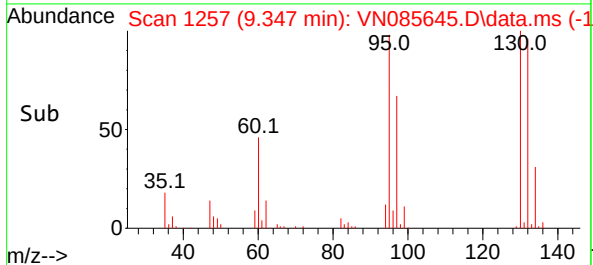
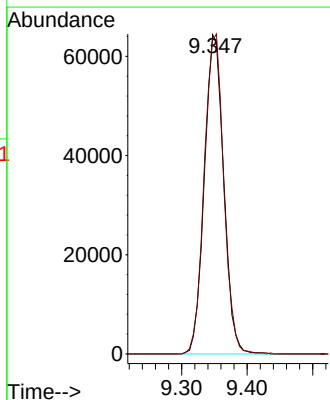
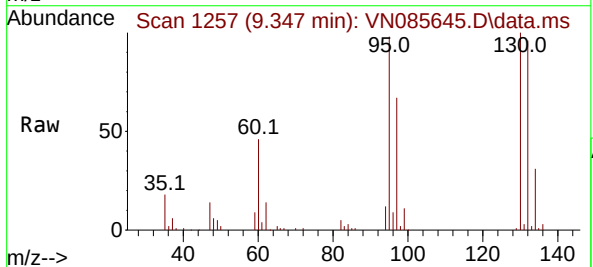
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

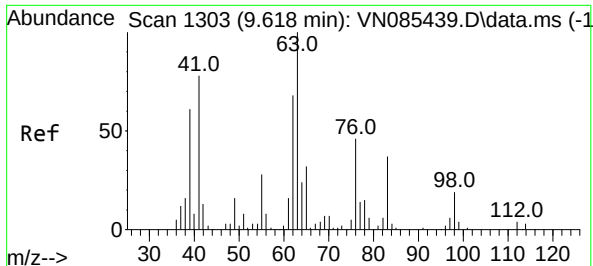
Tgt Ion: 43 Resp: 271553
Ion Ratio Lower Upper
43 100
61 27.9 20.7 31.1
87 14.6 9.8 14.8



#44
Trichloroethene
Concen: 56.068 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 130 Resp: 131785
Ion Ratio Lower Upper
130 100
95 98.1 0.0 195.8





#45

1,2-Dichloropropane

Concen: 53.137 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

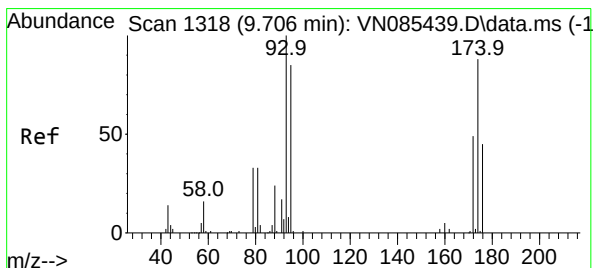
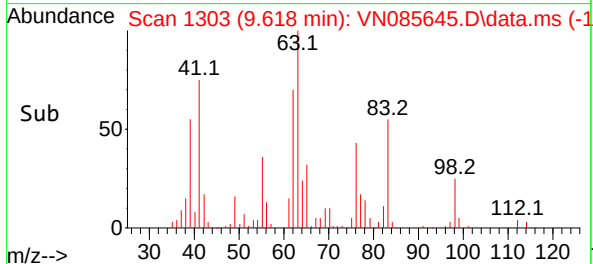
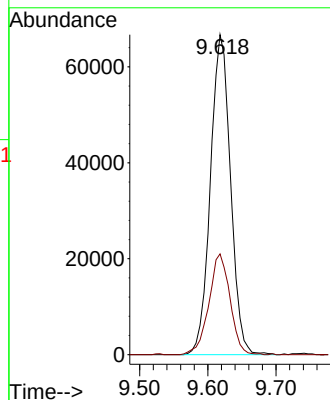
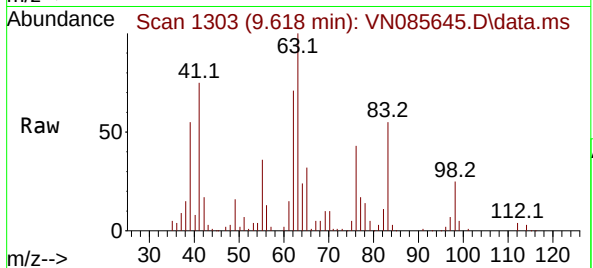
VSTDCCC050

Tgt Ion: 63 Resp: 137051

Ion Ratio Lower Upper

63 100

65 31.5 25.6 38.4



#46

Dibromomethane

Concen: 52.419 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

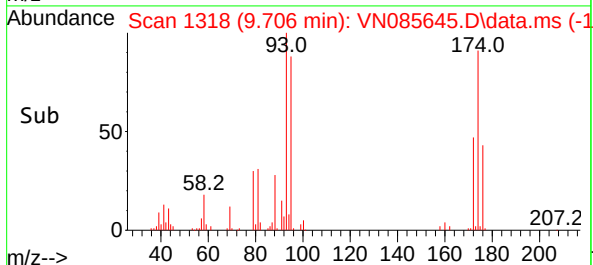
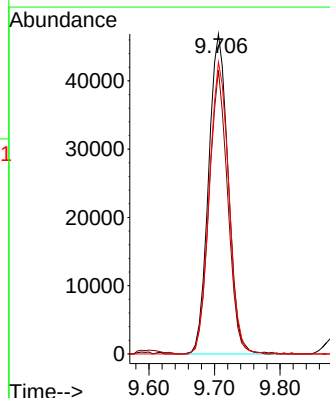
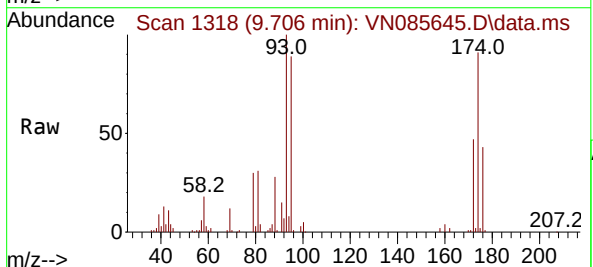
Tgt Ion: 93 Resp: 97554

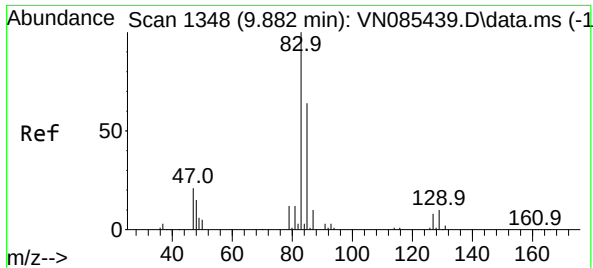
Ion Ratio Lower Upper

93 100

95 84.0 64.7 97.1

174 90.8 69.0 103.4

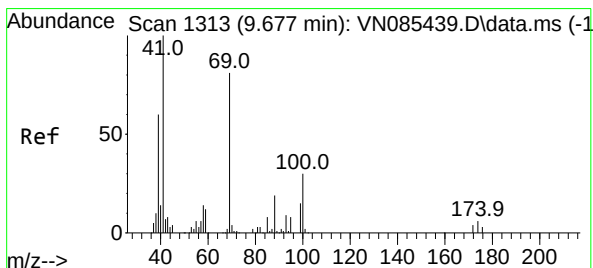
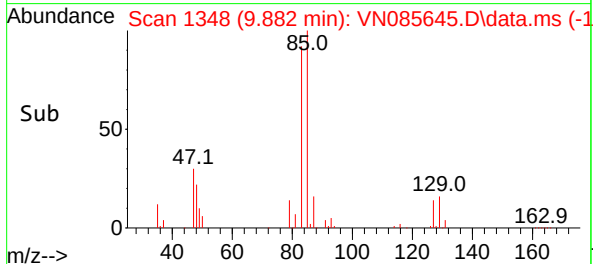
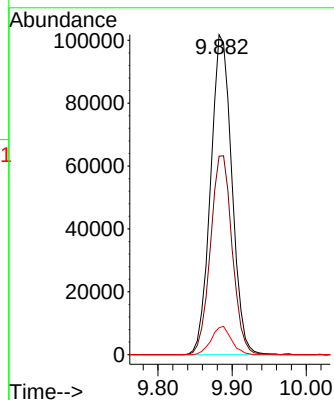
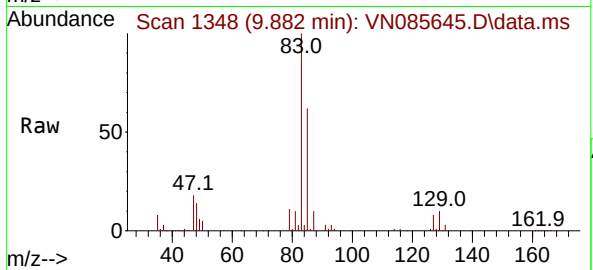




#47
Bromodichloromethane
Concen: 53.411 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

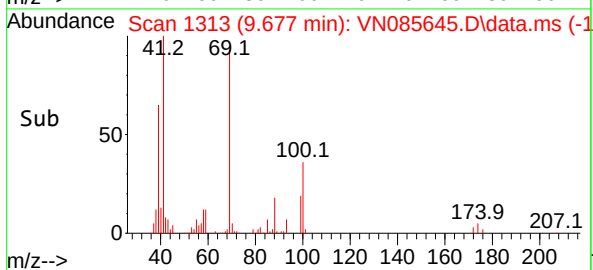
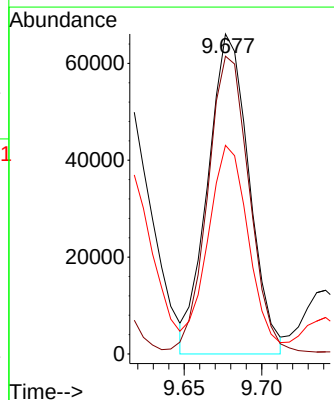
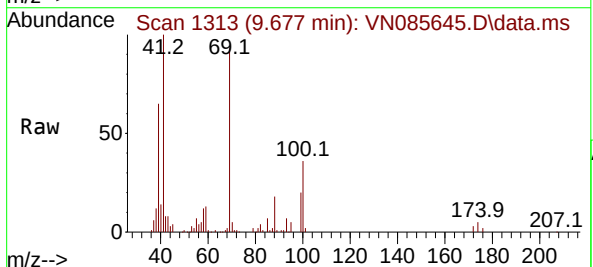
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

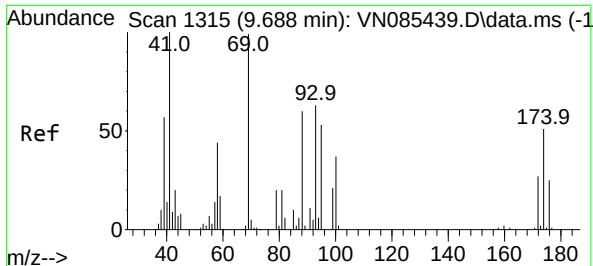
Tgt Ion: 83 Resp: 202509
Ion Ratio Lower Upper
83 100
85 62.0 51.2 76.8
127 8.5 6.5 9.7



#48
Methyl methacrylate
Concen: 50.045 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 41 Resp: 122409
Ion Ratio Lower Upper
41 100
69 94.5 64.7 97.1
39 65.0 49.0 73.6





#49

1,4-Dioxane

Concen: 1142.294 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

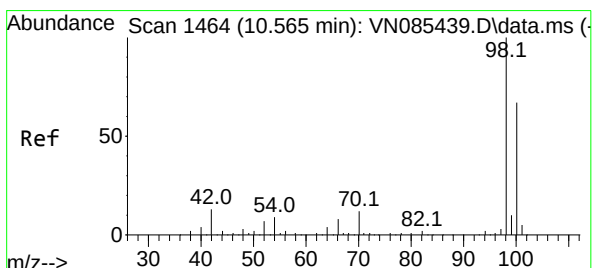
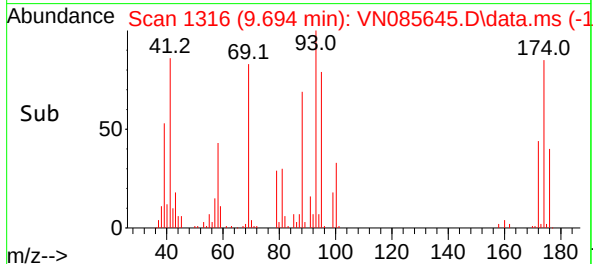
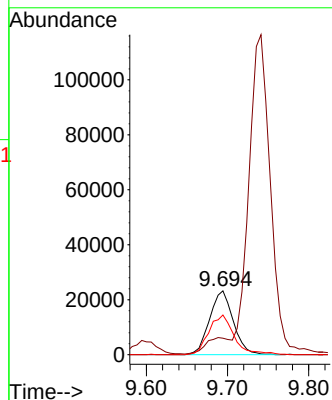
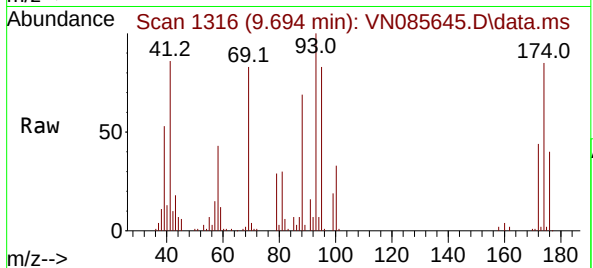
Tgt Ion: 88 Resp: 47051

Ion Ratio Lower Upper

88 100

43 24.5 26.6 39.8#

58 66.8 59.5 89.3



#50

Toluene-d8

Concen: 55.713 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085645.D

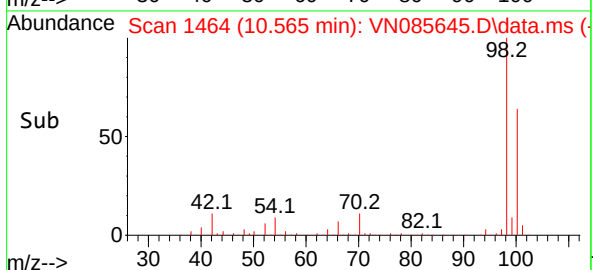
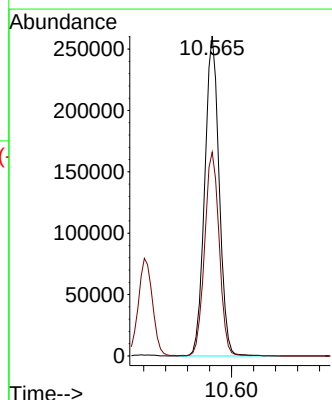
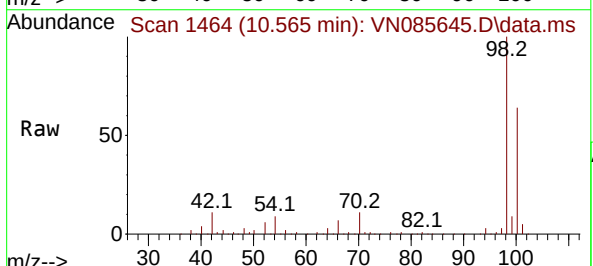
Acq: 04 Feb 2025 11:05

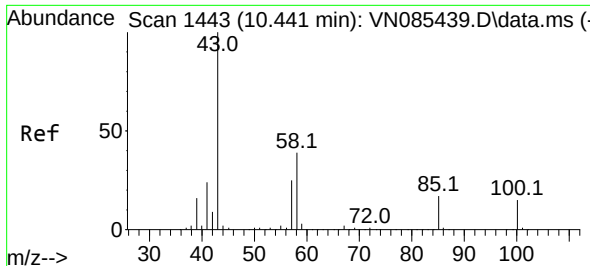
Tgt Ion: 98 Resp: 473979

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4

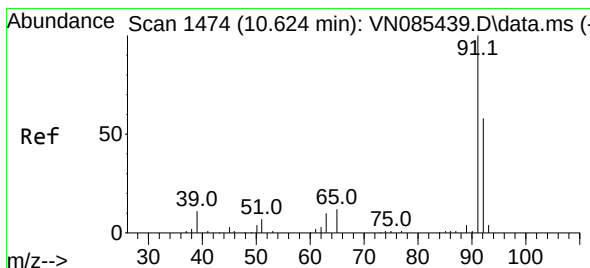
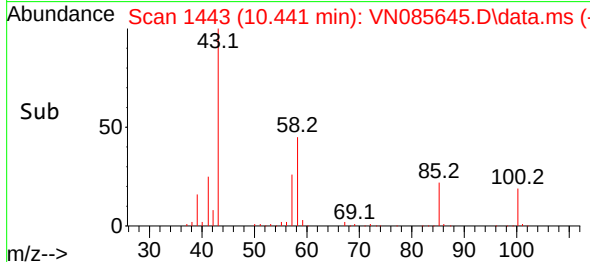
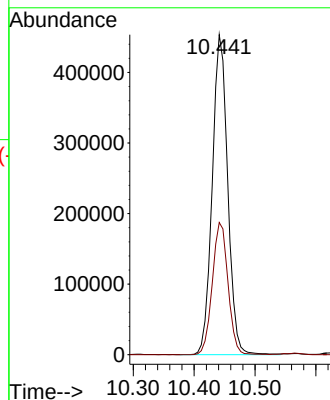
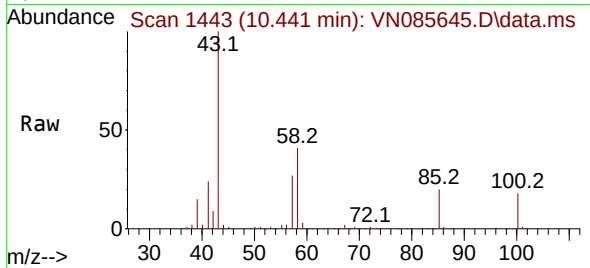




#51
4-Methyl-2-Pentanone
Concen: 253.917 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

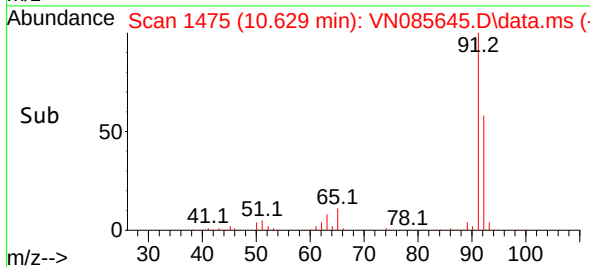
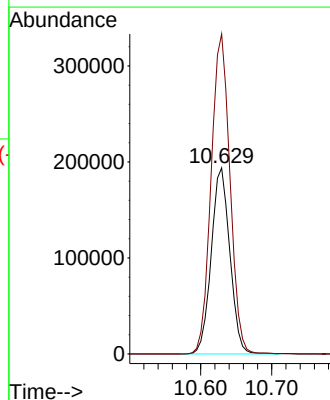
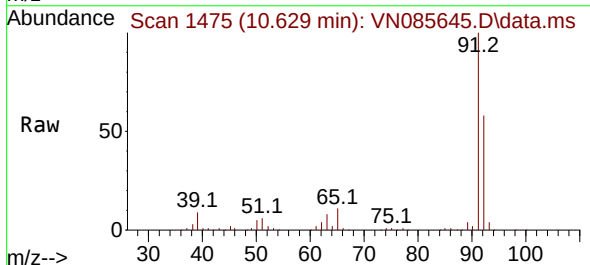
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

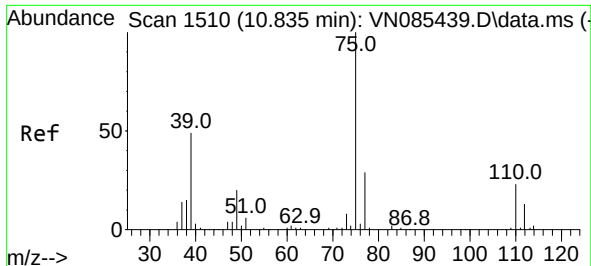
Tgt Ion: 43 Resp: 800853
Ion Ratio Lower Upper
43 100
58 41.9 30.5 45.7



#52
Toluene
Concen: 60.150 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 92 Resp: 351922
Ion Ratio Lower Upper
92 100
91 174.5 139.2 208.8

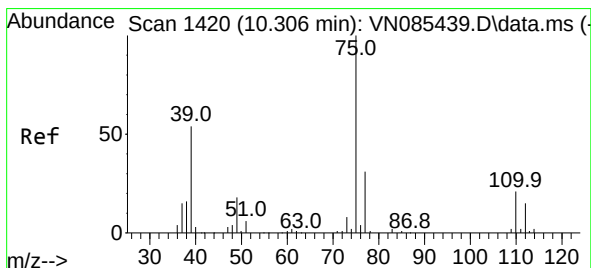
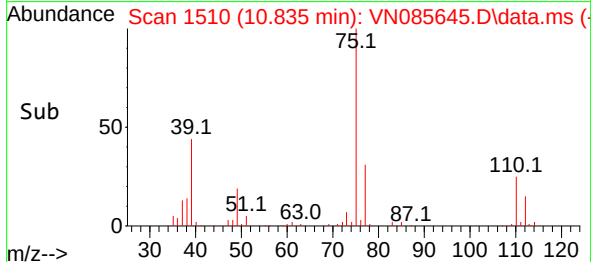
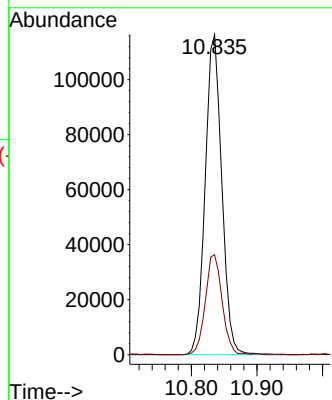
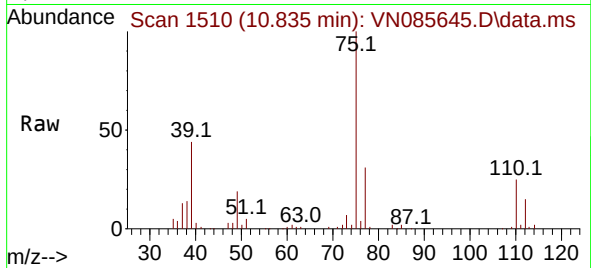




#53
t-1,3-Dichloropropene
Concen: 57.048 ug/l
RT: 10.835 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

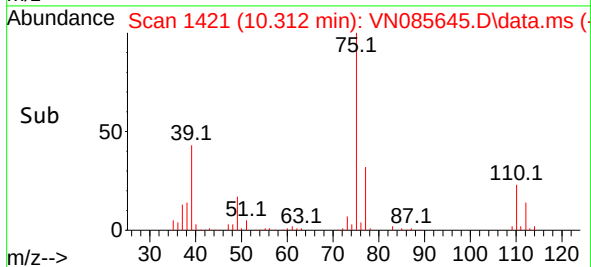
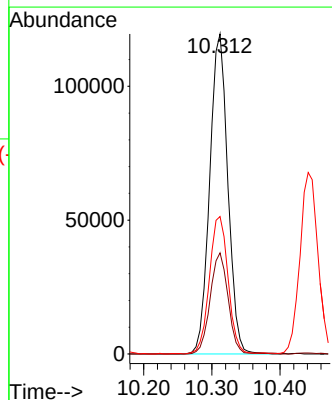
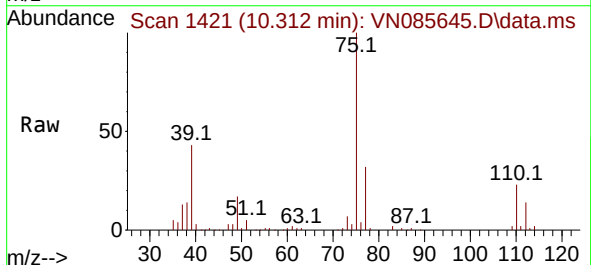
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

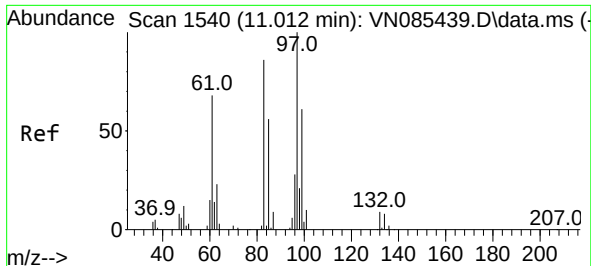
Tgt Ion: 75 Resp: 204407
Ion Ratio Lower Upper
75 100
77 31.2 23.5 35.3



#54
cis-1,3-Dichloropropene
Concen: 57.810 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 75 Resp: 221256
Ion Ratio Lower Upper
75 100
77 31.6 25.0 37.4
39 42.8 43.1 64.7#

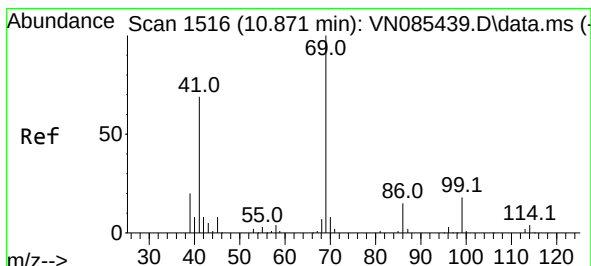
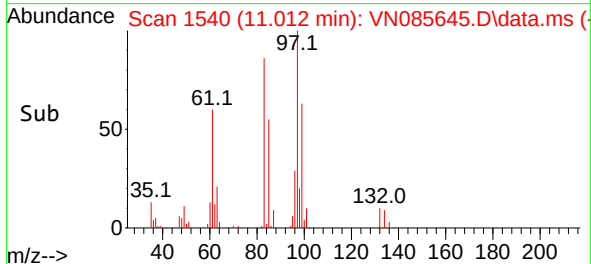
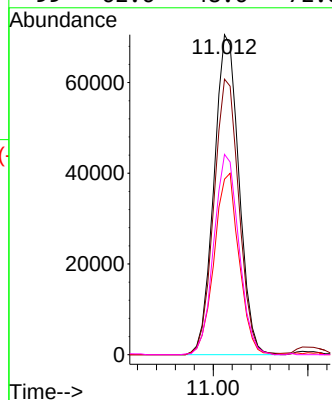
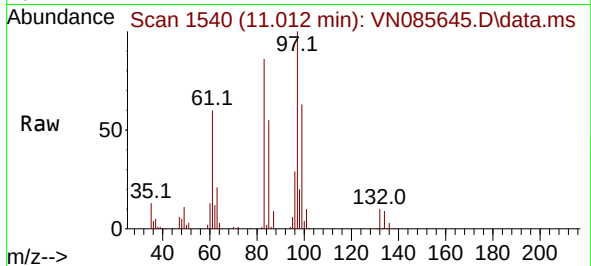




#55
1,1,2-Trichloroethane
Concen: 55.842 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

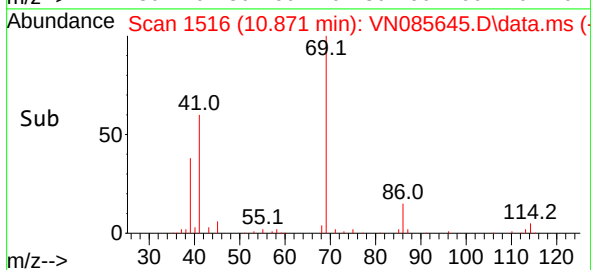
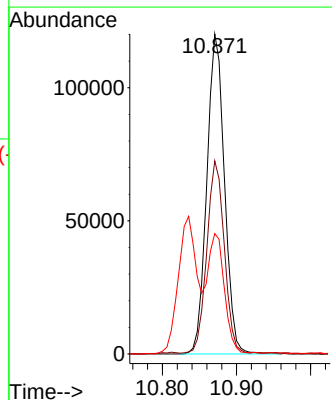
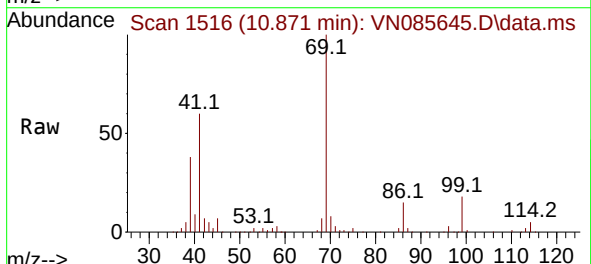
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

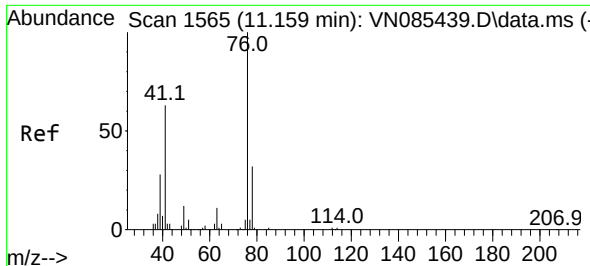
Tgt Ion:	97	Resp:	129296
Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.0	103.6
85	54.9	44.6	66.8
99	62.6	48.6	72.8



#56
Ethyl methacrylate
Concen: 50.997 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:	69	Resp:	199066
Ion	Ratio	Lower	Upper
69	100		
41	59.3	54.6	82.0
39	35.8	32.4	48.6





#57

1,3-Dichloropropane

Concen: 56.030 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

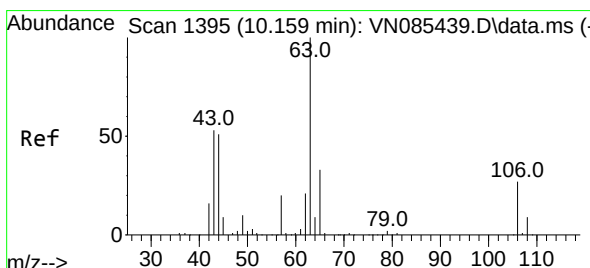
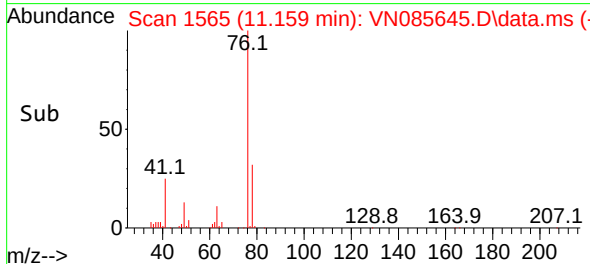
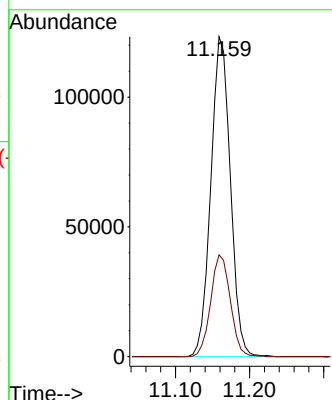
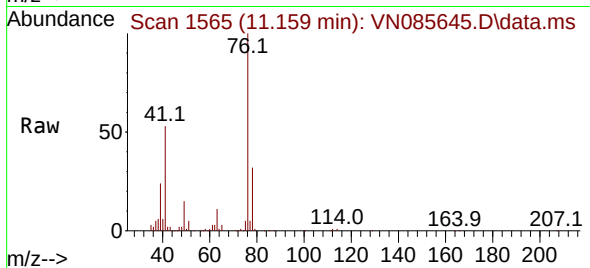
VSTDCCC050

Tgt Ion: 76 Resp: 225579

Ion Ratio Lower Upper

76 100

78 32.0 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 228.313 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085645.D

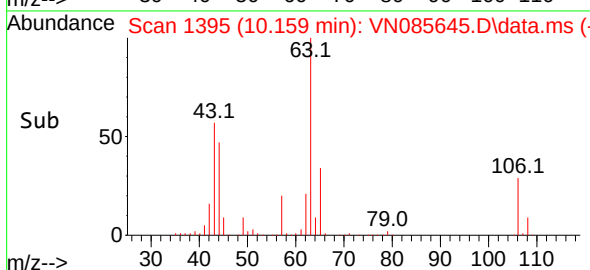
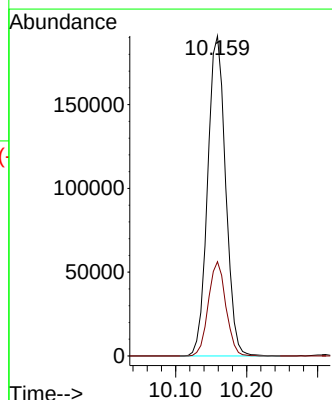
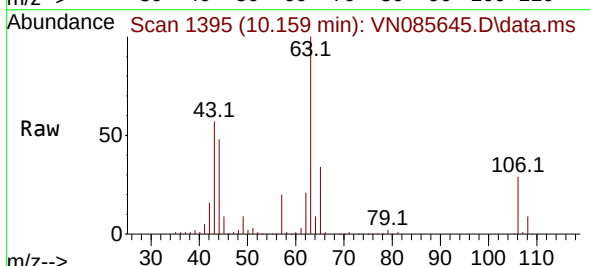
Acq: 04 Feb 2025 11:05

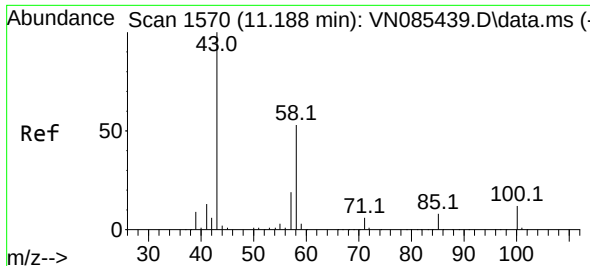
Tgt Ion: 63 Resp: 335470

Ion Ratio Lower Upper

63 100

106 28.7 21.6 32.4

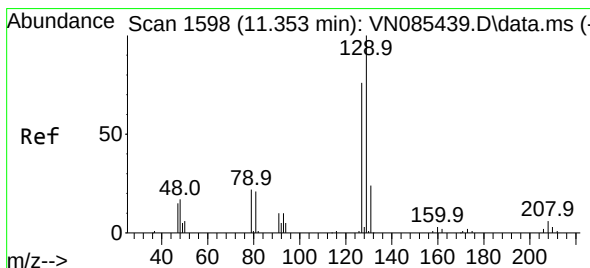
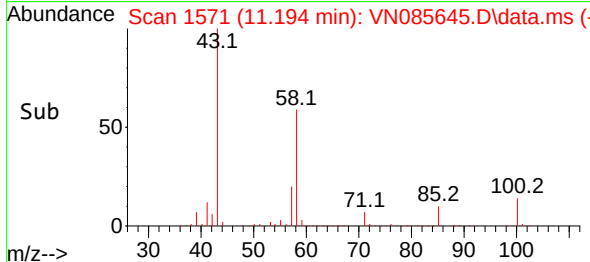
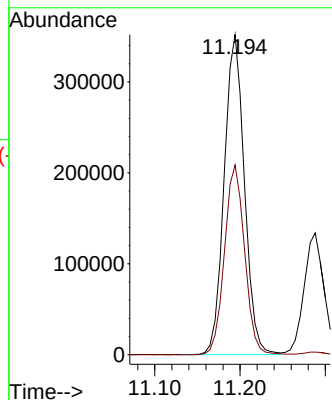
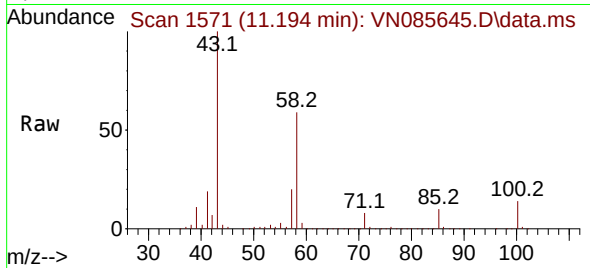




#59
2-Hexanone
Concen: 261.399 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

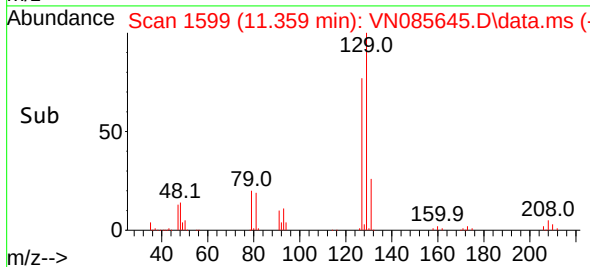
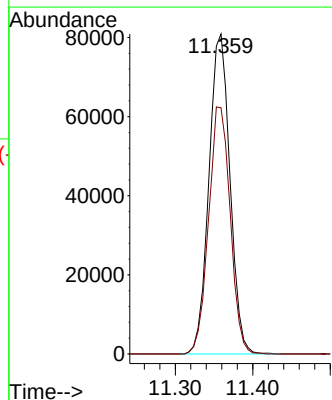
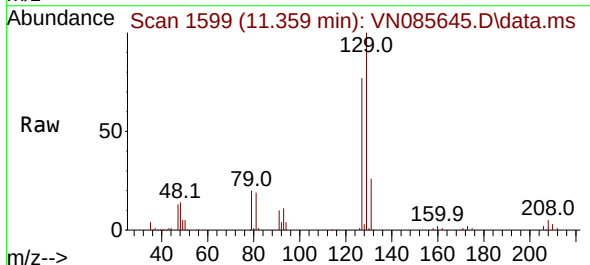
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

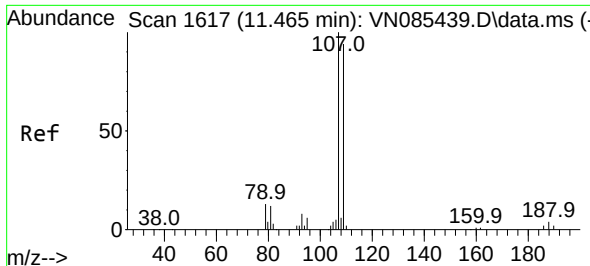
Tgt Ion: 43 Resp: 580109
Ion Ratio Lower Upper
43 100
58 58.9 26.2 78.6



#60
Dibromochloromethane
Concen: 54.508 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 129 Resp: 152370
Ion Ratio Lower Upper
129 100
127 79.3 38.6 115.8

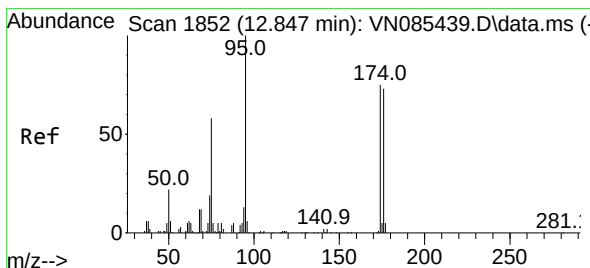
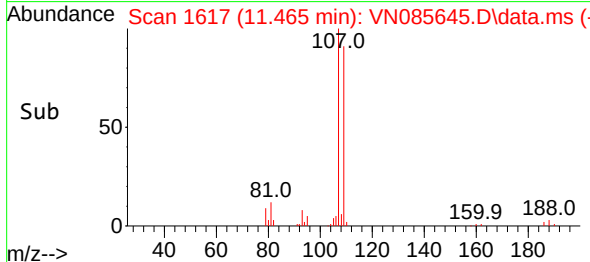
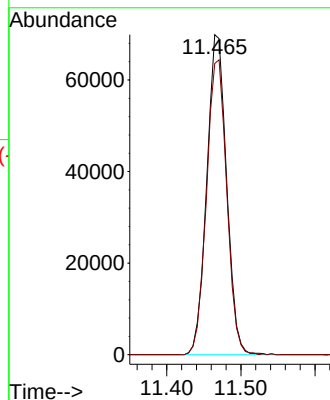
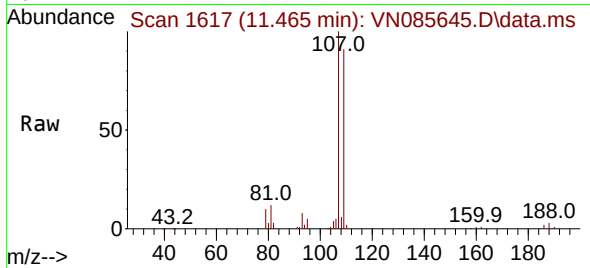




#61
1,2-Dibromoethane
Concen: 56.226 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

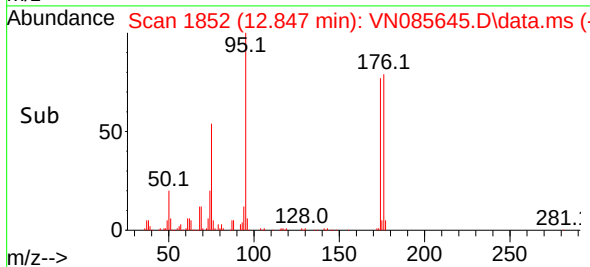
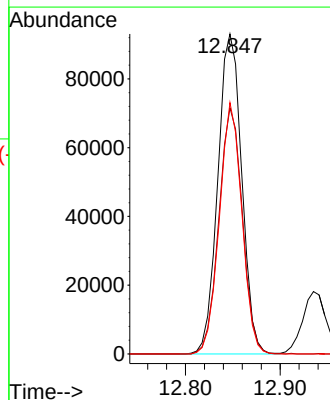
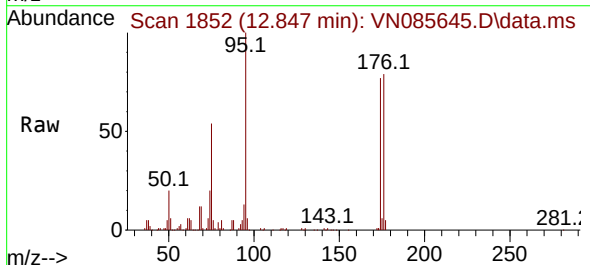
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

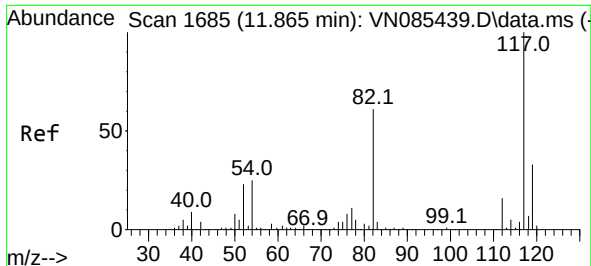
Tgt Ion:107 Resp: 129588
Ion Ratio Lower Upper
107 100
109 94.2 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 56.013 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 95 Resp: 163009
Ion Ratio Lower Upper
95 100
174 75.9 0.0 145.0
176 73.9 0.0 142.4

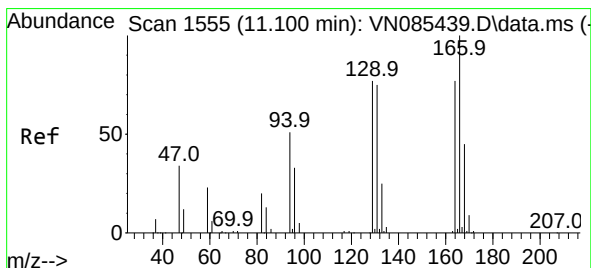
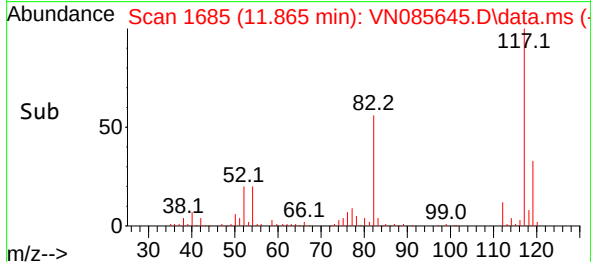
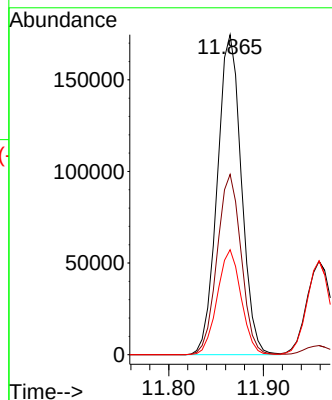
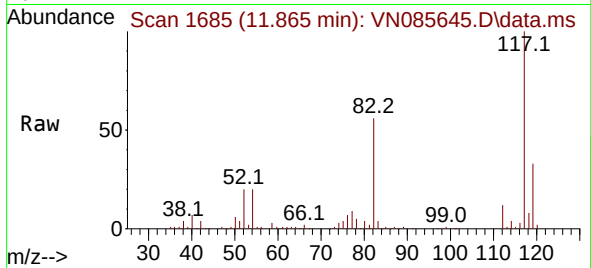




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

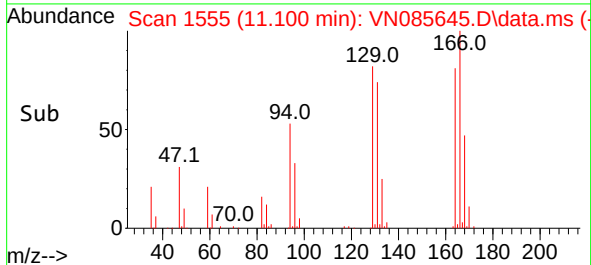
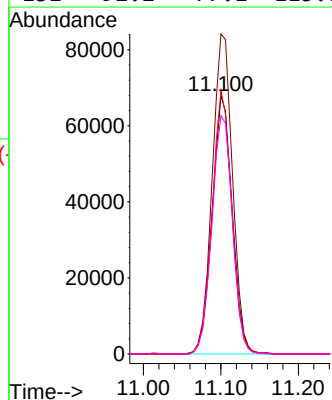
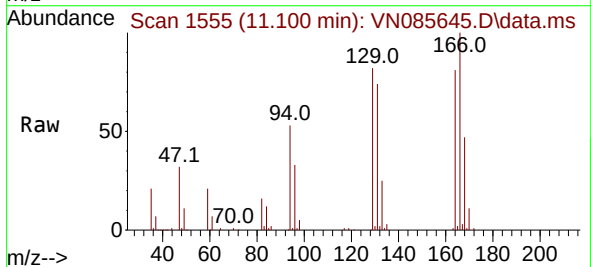
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

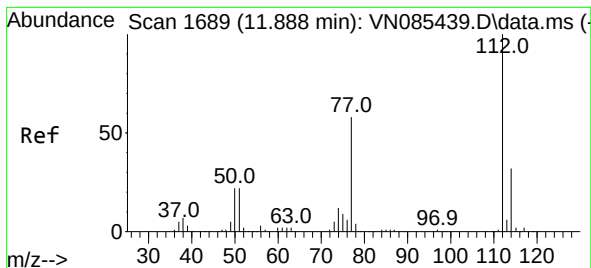
Tgt Ion:117 Resp: 309053
Ion Ratio Lower Upper
117 100
82 56.3 48.6 72.8
119 32.8 26.6 39.8



#64
Tetrachloroethene
Concen: 58.273 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:164 Resp: 122776
Ion Ratio Lower Upper
164 100
166 123.9 103.4 155.2
129 101.8 79.2 118.8
131 92.2 77.1 115.7

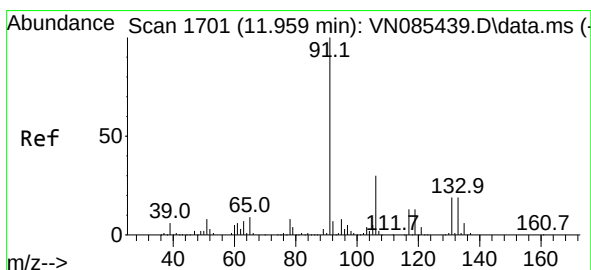
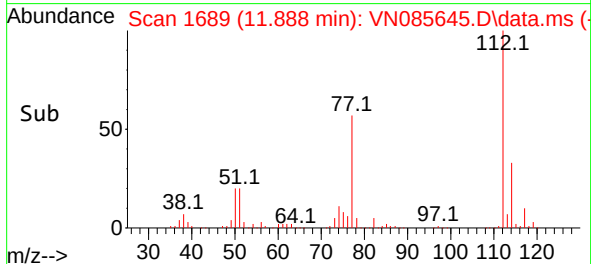
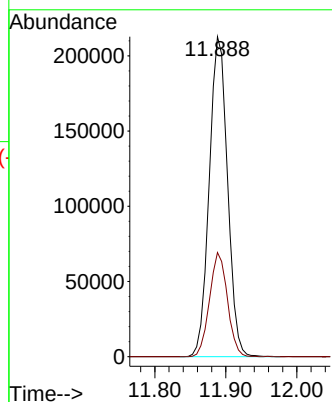
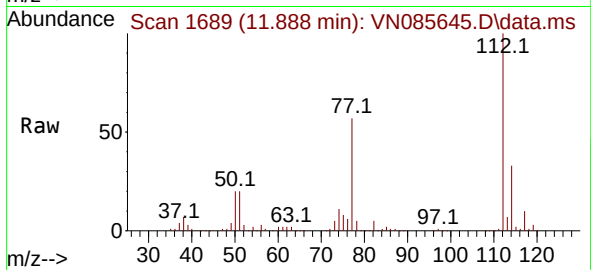




#65
Chlorobenzene
Concen: 56.165 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

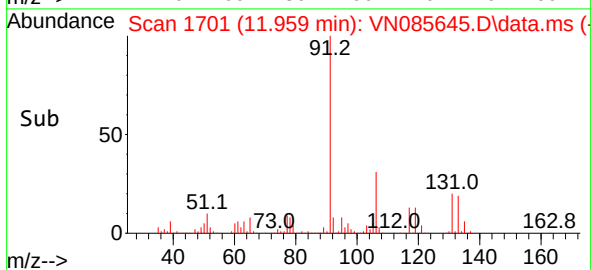
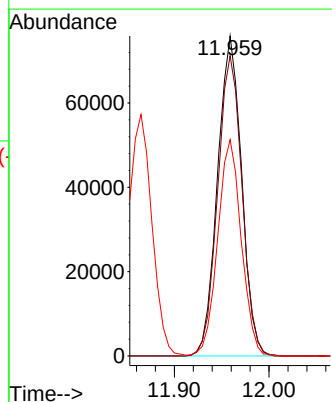
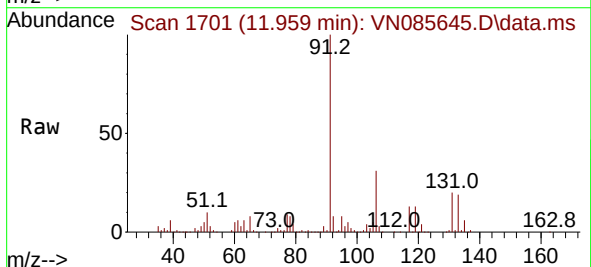
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

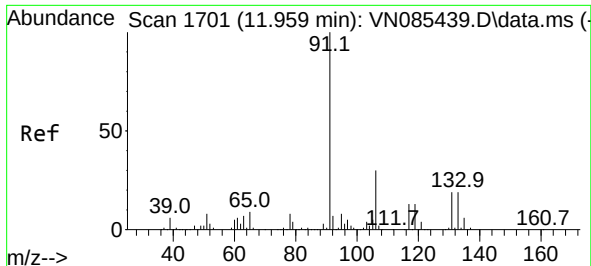
Tgt Ion:112 Resp: 380252
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 53.847 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:131 Resp: 133801
Ion Ratio Lower Upper
131 100
133 95.1 47.4 142.3
119 66.4 33.1 99.5

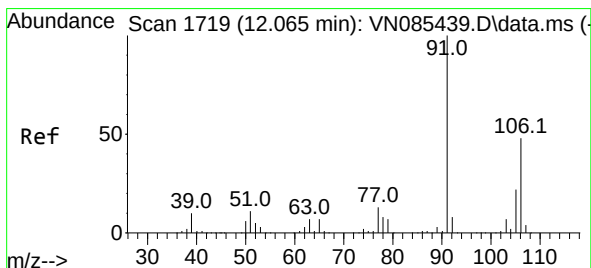
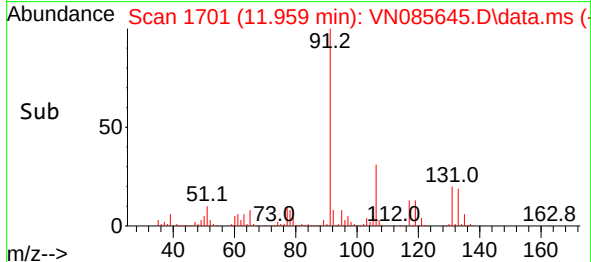
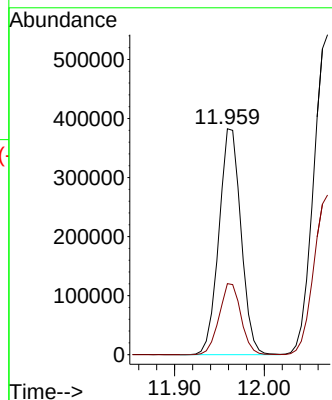
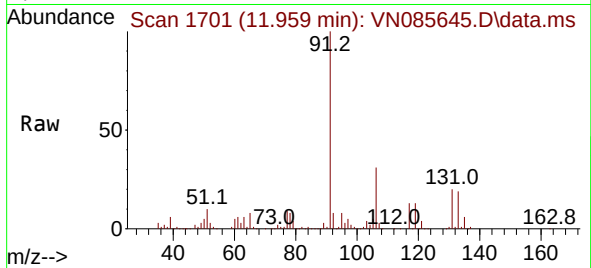




#67
Ethyl Benzene
Concen: 59.349 ug/l
RT: 11.959 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

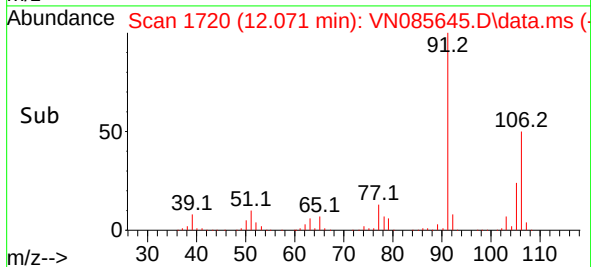
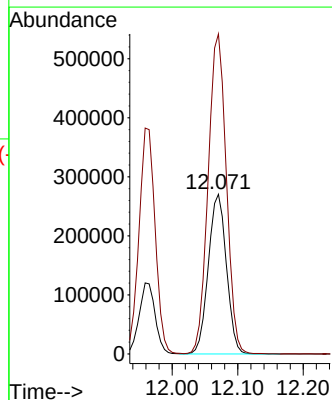
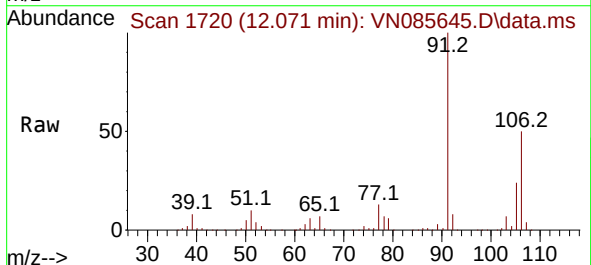
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

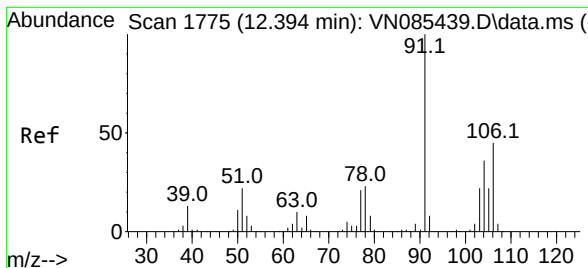
Tgt Ion: 91 Resp: 654450
Ion Ratio Lower Upper
91 100
106 31.5 23.8 35.8



#68
m/p-Xylenes
Concen: 127.234 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 106 Resp: 518534
Ion Ratio Lower Upper
106 100
91 201.3 167.7 251.5

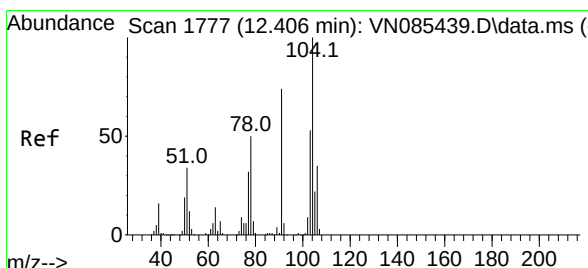
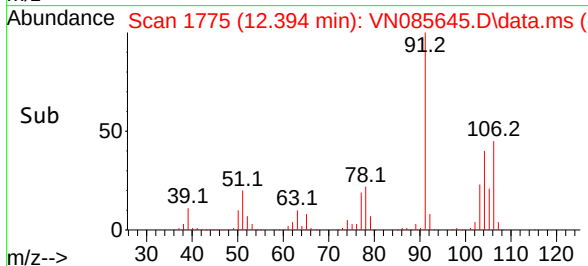
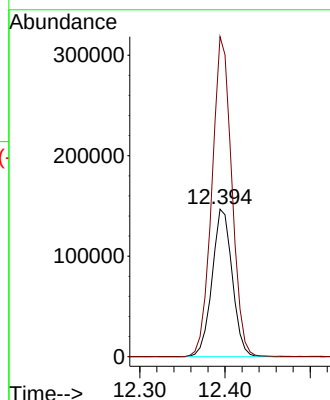
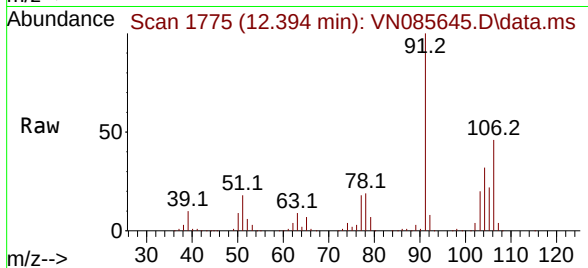




#69
o-Xylene
Concen: 61.940 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

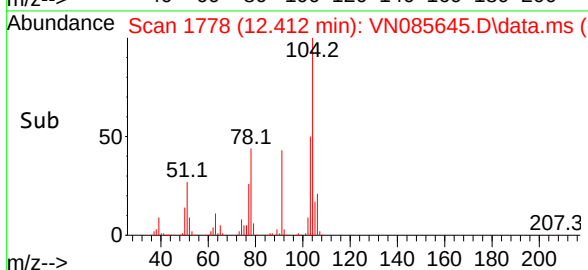
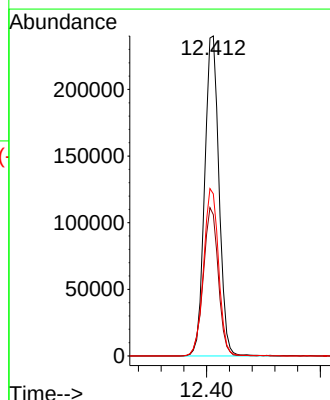
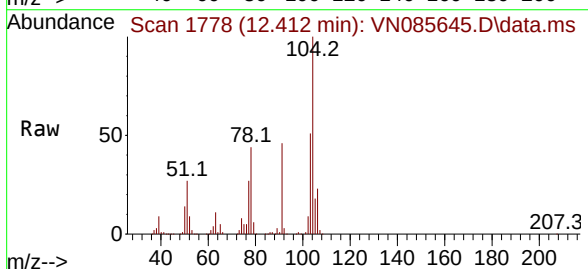
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

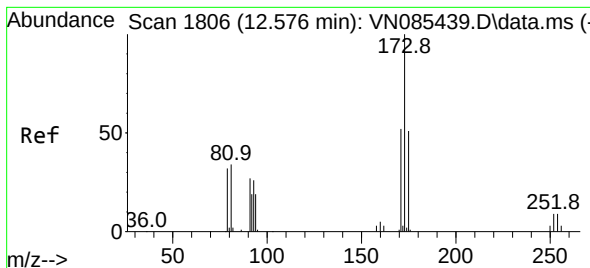
Tgt Ion:106 Resp: 241242
Ion Ratio Lower Upper
106 100
91 214.2 110.4 331.2



#70
Styrene
Concen: 65.022 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:104 Resp: 419116
Ion Ratio Lower Upper
104 100
78 48.4 42.5 63.7
103 54.9 43.8 65.8





#71

Bromoform

Concen: 56.133 ug/l

RT: 12.576 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

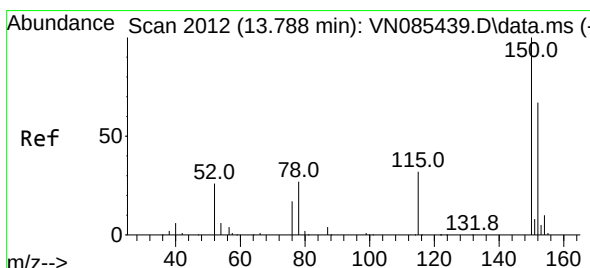
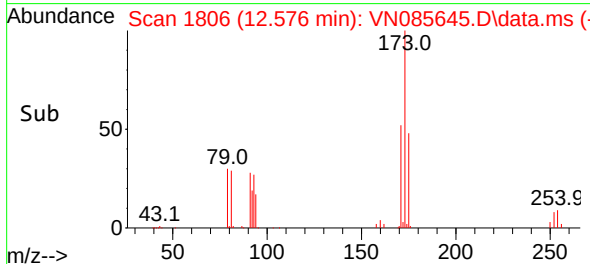
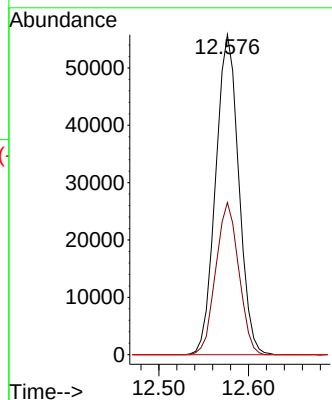
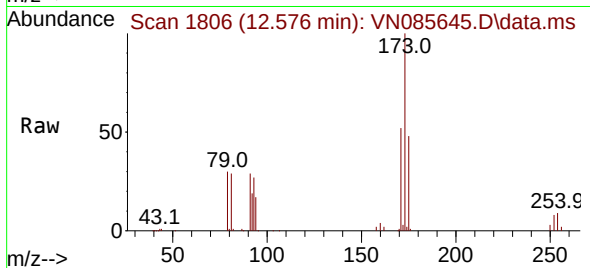
Tgt Ion:173 Resp: 99802

Ion Ratio Lower Upper

173 100

175 47.2 24.4 73.2

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

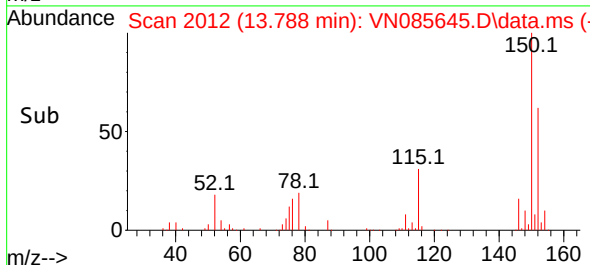
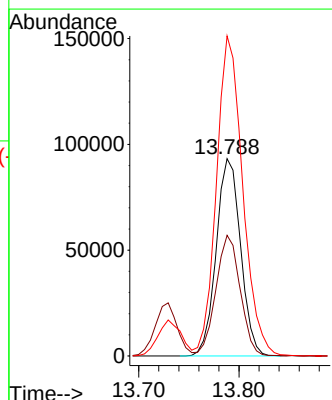
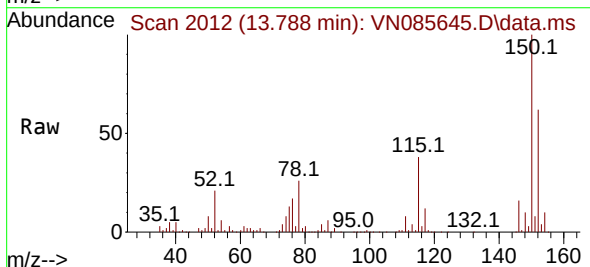
Tgt Ion:152 Resp: 157058

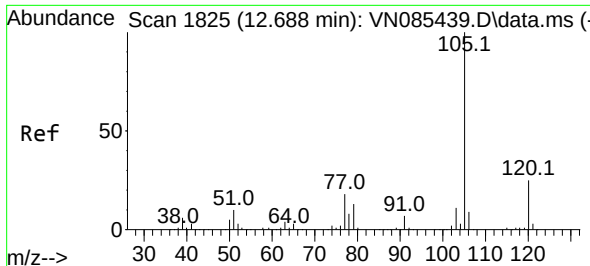
Ion Ratio Lower Upper

152 100

115 61.2 31.1 93.3

150 175.6 0.0 343.6

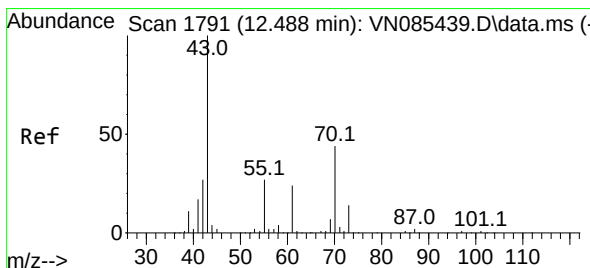
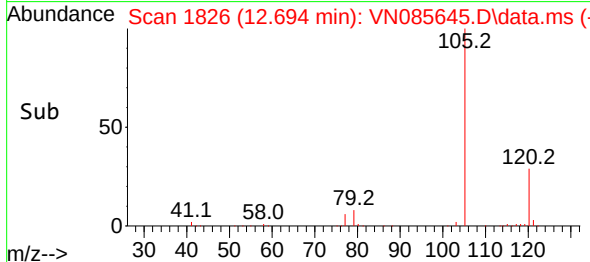
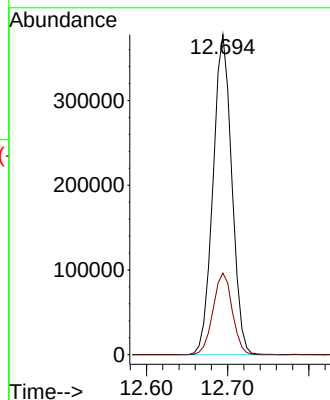
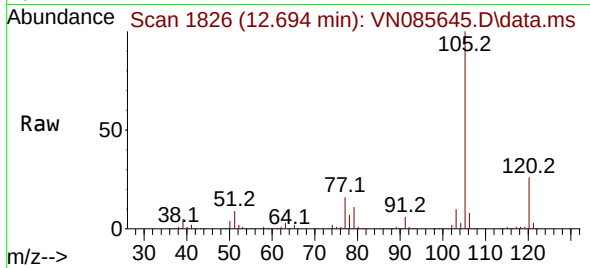




#73
Isopropylbenzene
Concen: 57.186 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

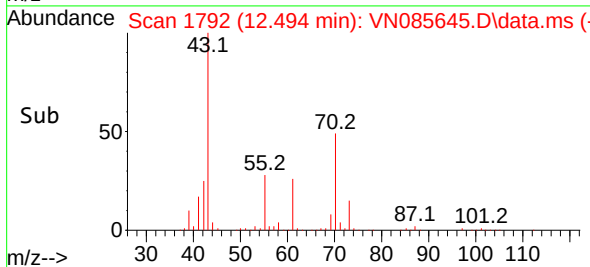
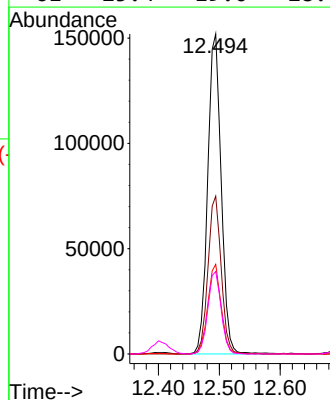
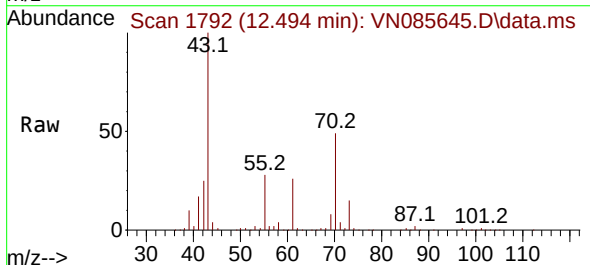
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

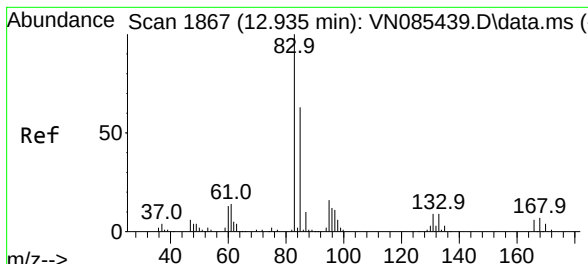
Tgt Ion:105 Resp: 606175
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.3



#74
N-ethyl acetate
Concen: 49.123 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 43 Resp: 234045
Ion Ratio Lower Upper
43 100
70 48.2 34.0 51.0
55 27.8 21.4 32.2
61 25.4 19.0 28.4

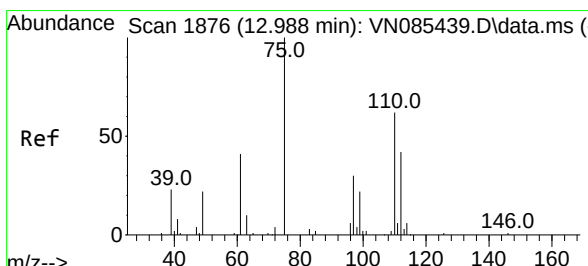
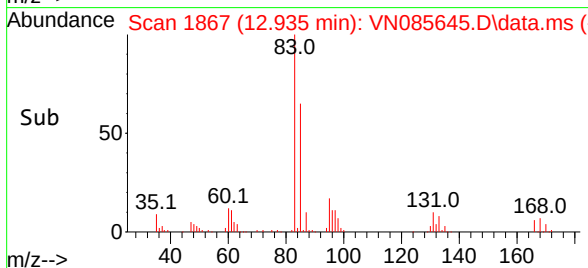
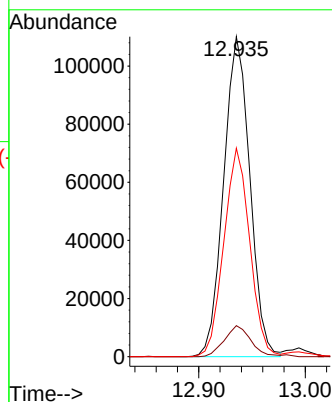
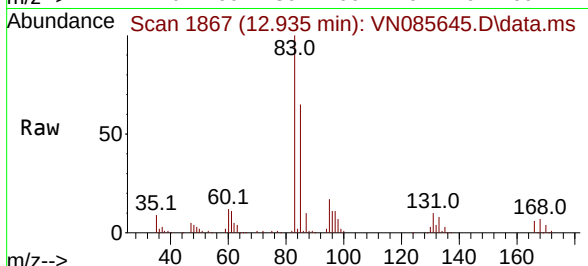




#75
 1,1,2,2-Tetrachloroethane
 Concen: 50.322 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

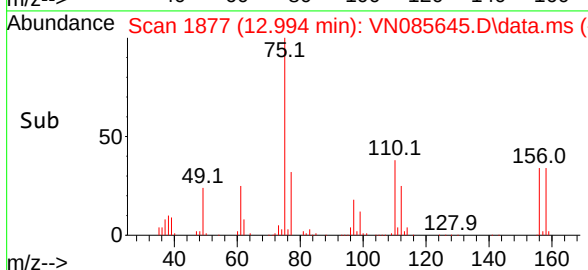
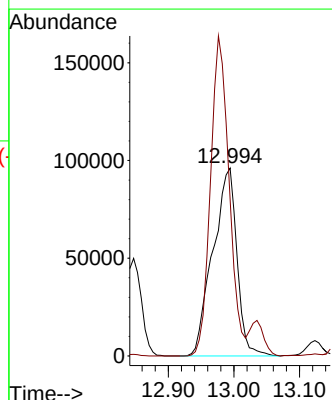
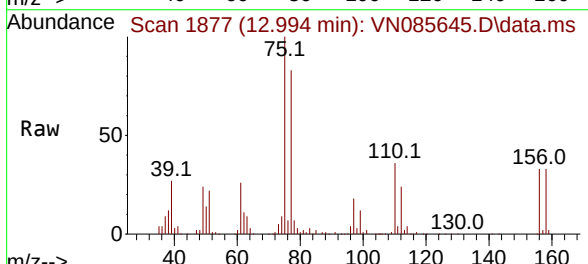
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

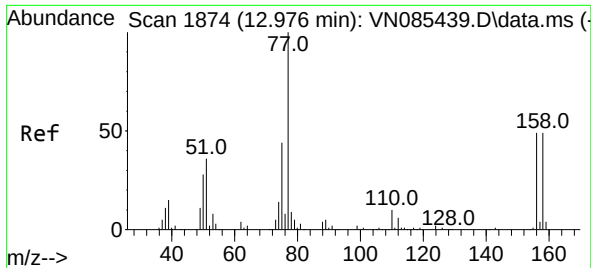
Tgt Ion: 83 Resp: 188424
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.8 14.4
 85 64.2 32.2 96.6



#76
 1,2,3-Trichloropropane
 Concen: 76.730 ug/l
 RT: 12.994 min Scan# 1877
 Delta R.T. 0.006 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

Tgt Ion: 75 Resp: 244941
 Ion Ratio Lower Upper
 75 100
 77 131.7 109.7 329.2

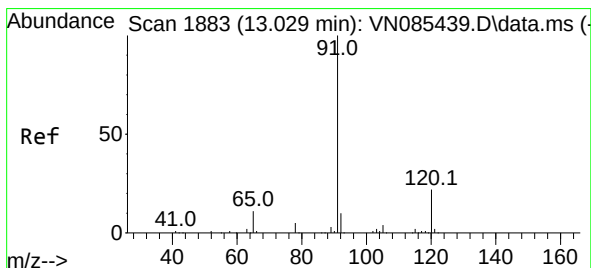
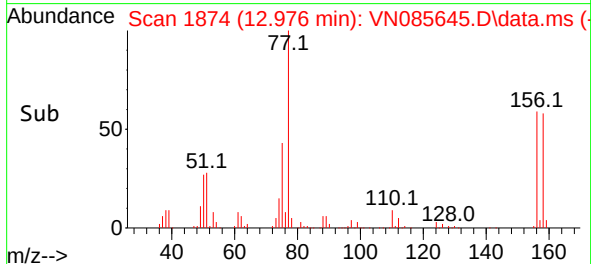
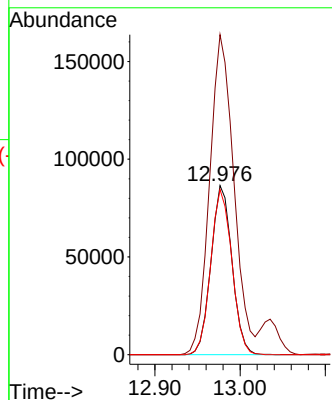
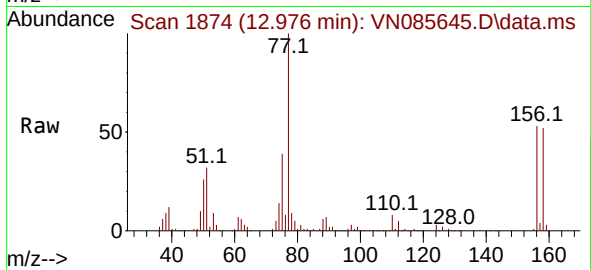




#77
Bromobenzene
Concen: 53.497 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

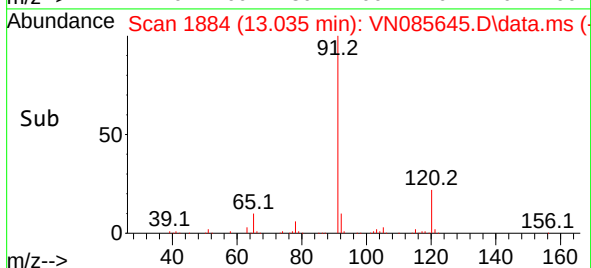
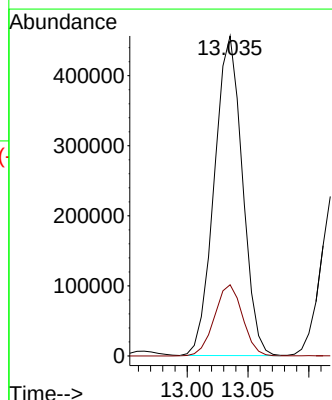
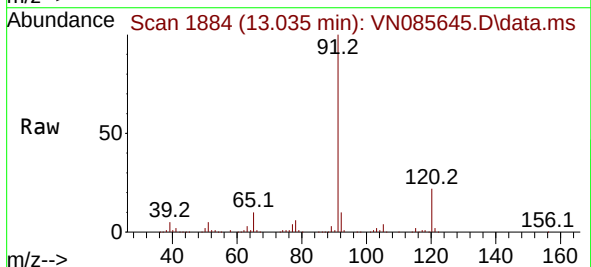
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

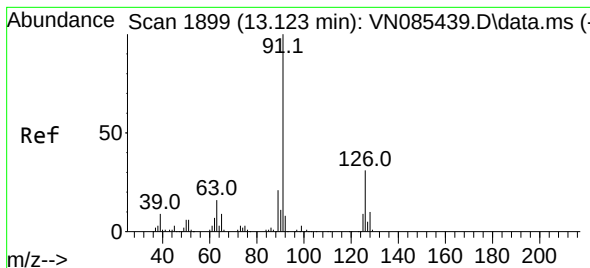
Tgt Ion:156 Resp: 148155
Ion Ratio Lower Upper
156 100
77 217.8 114.1 342.4
158 98.2 48.9 146.8



#78
n-propylbenzene
Concen: 58.330 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 91 Resp: 731968
Ion Ratio Lower Upper
91 100
120 22.3 10.9 32.6

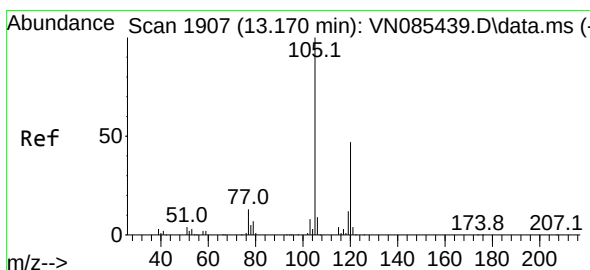
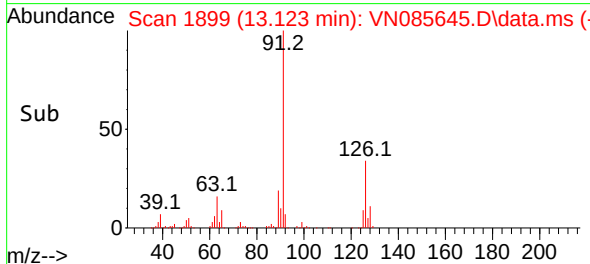
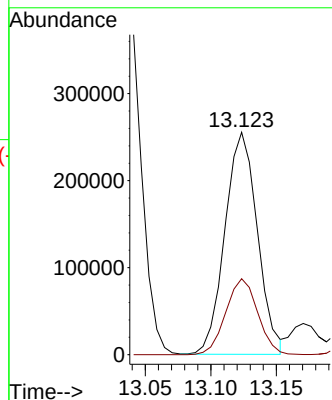
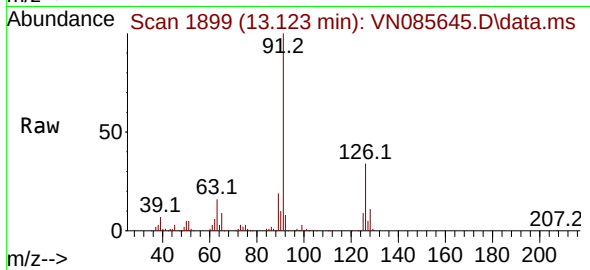




#79
2-Chlorotoluene
Concen: 54.157 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

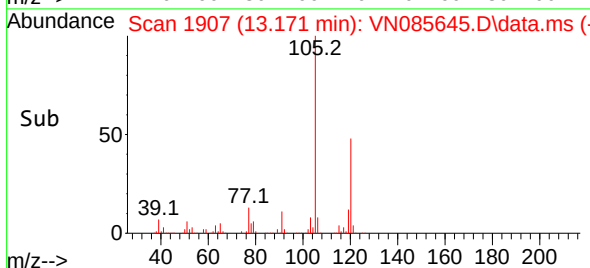
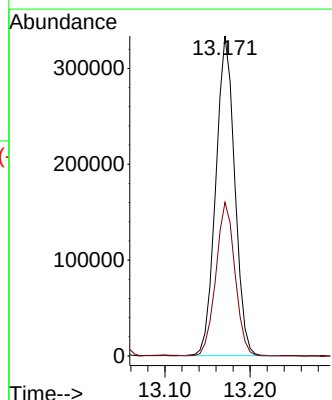
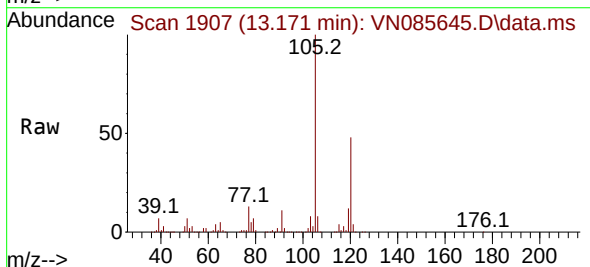
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

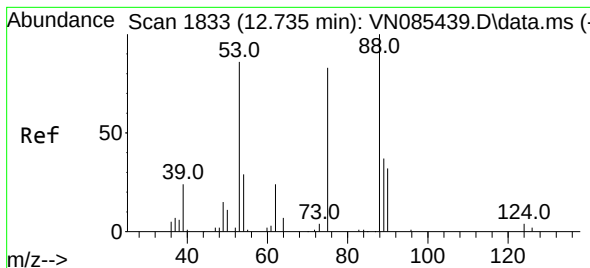
Tgt Ion: 91 Resp: 439835
Ion Ratio Lower Upper
91 100
126 33.7 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 58.774 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 105 Resp: 514612
Ion Ratio Lower Upper
105 100
120 48.4 23.9 71.7

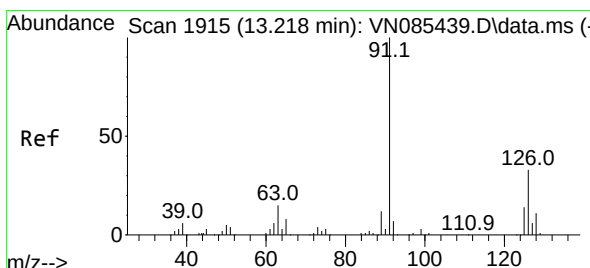
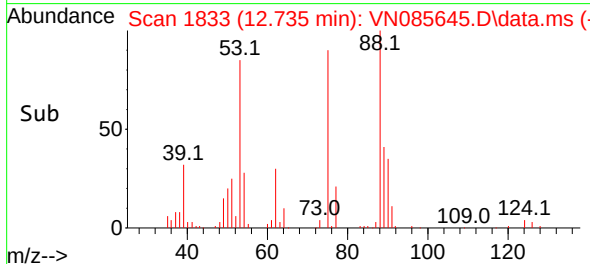
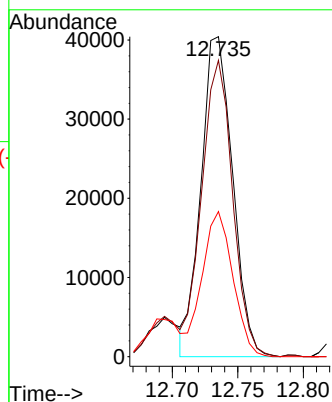
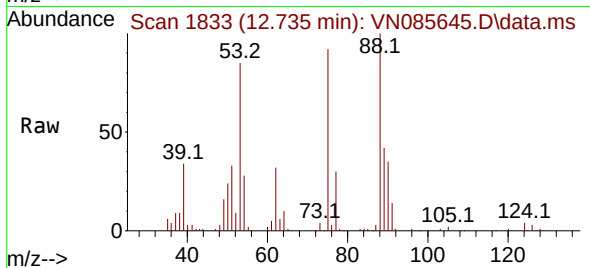




#81
trans-1,4-Dichloro-2-butene
Concen: 57.659 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

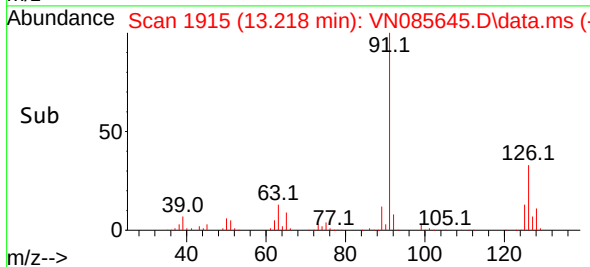
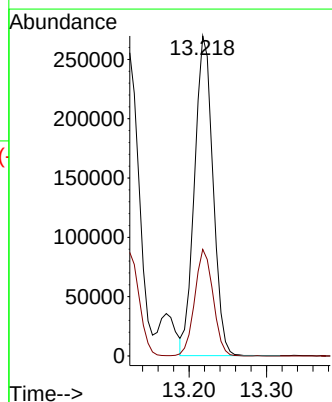
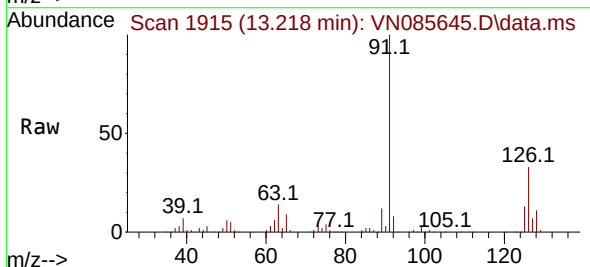
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

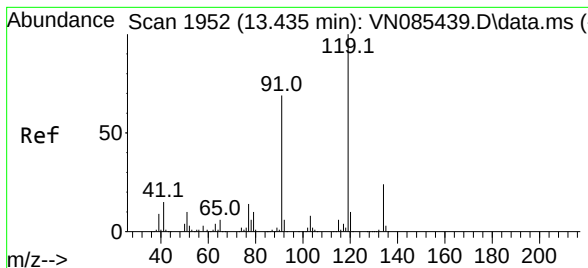
Tgt Ion: 75 Resp: 68031
Ion Ratio Lower Upper
75 100
53 90.8 95.6 143.4#
89 44.8 37.0 55.6



#82
4-Chlorotoluene
Concen: 55.070 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion: 91 Resp: 445323
Ion Ratio Lower Upper
91 100
126 33.2 15.9 47.7

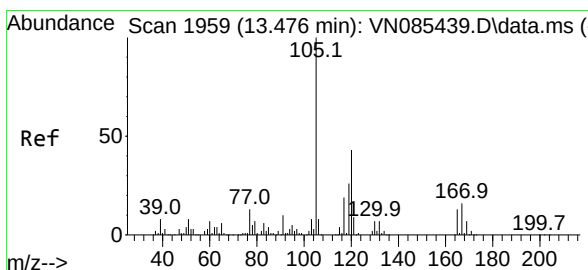
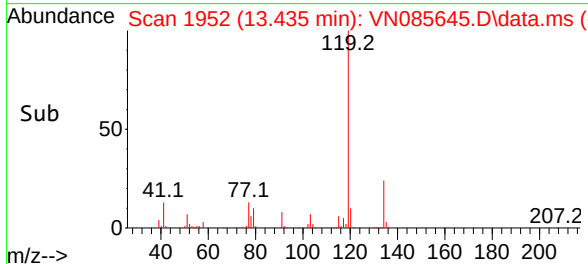
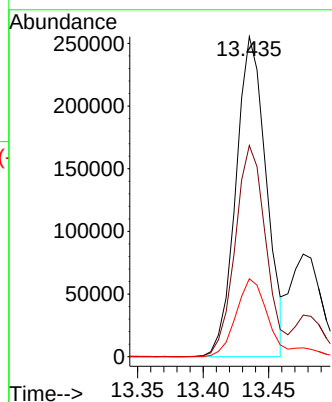
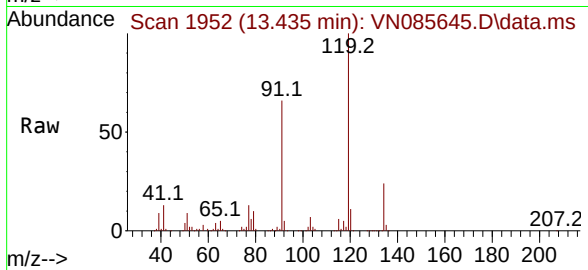




#83
tert-Butylbenzene
Concen: 55.960 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

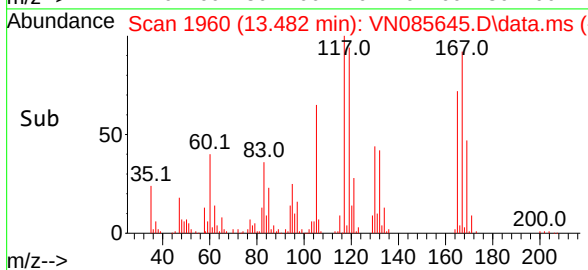
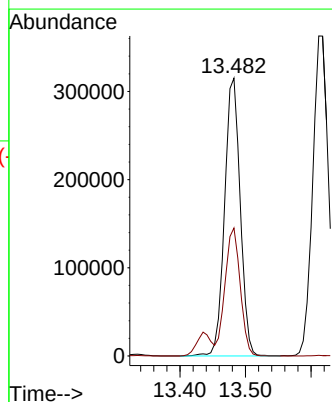
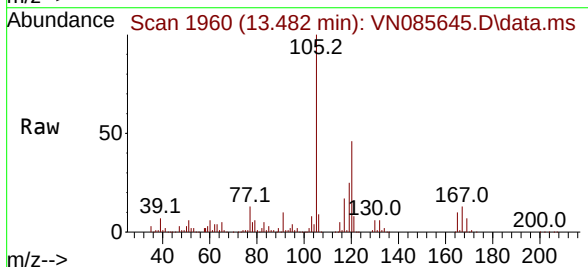
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

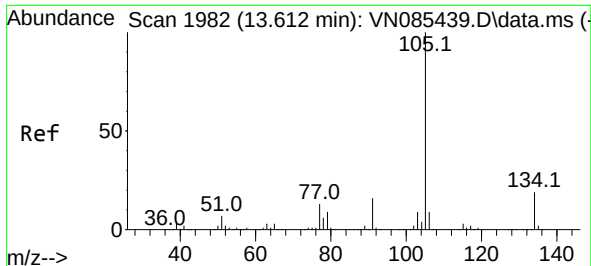
Tgt Ion:119 Resp: 411462
Ion Ratio Lower Upper
119 100
91 67.4 35.1 105.3
134 27.2 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 59.518 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:105 Resp: 519388
Ion Ratio Lower Upper
105 100
120 44.8 21.6 65.0

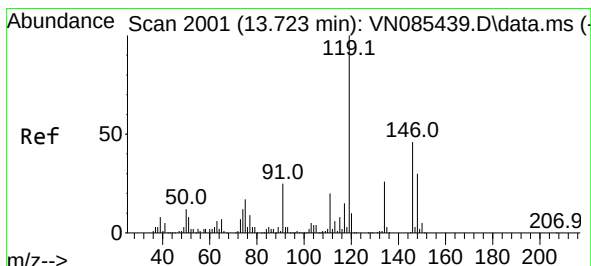
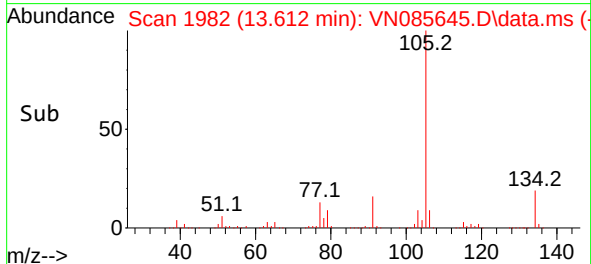
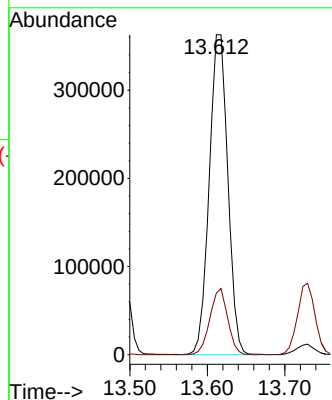
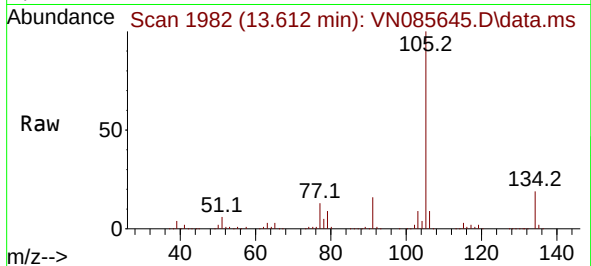




#85
 sec-Butylbenzene
 Concen: 59.408 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

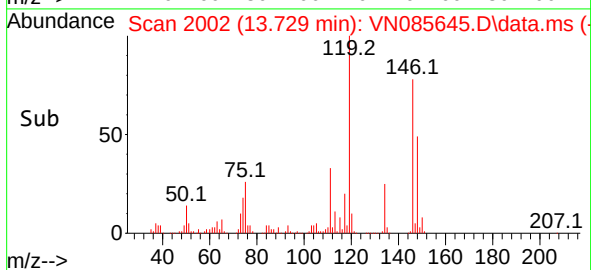
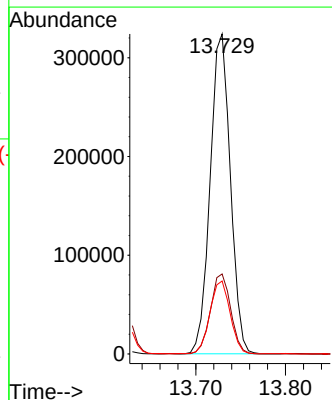
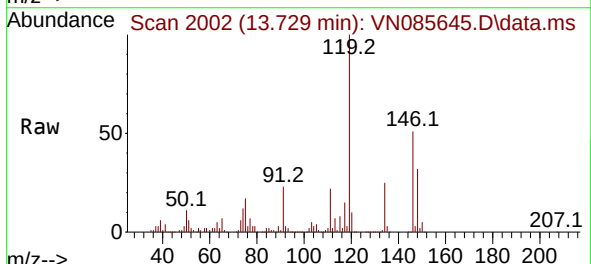
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

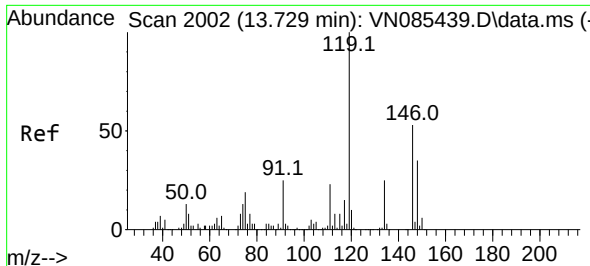
Tgt Ion:105 Resp: 605413
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 54.534 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

Tgt Ion:119 Resp: 506039
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.7 38.0
 91 22.8 12.7 38.1

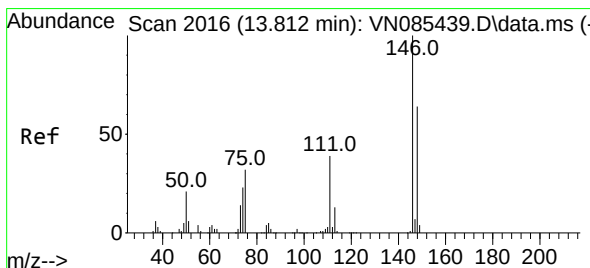
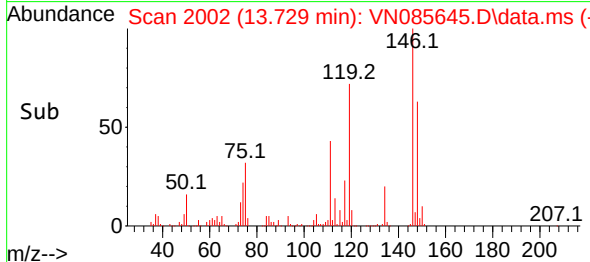
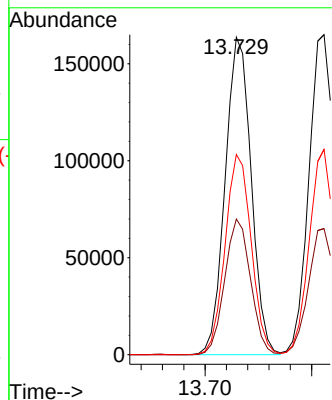
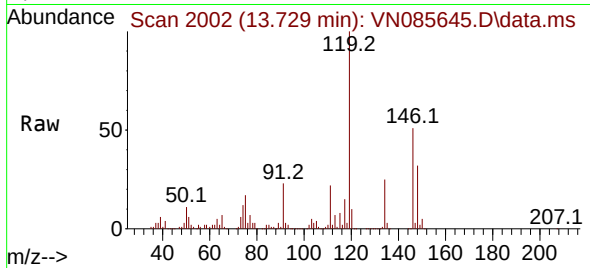




#87
 1,3-Dichlorobenzene
 Concen: 54.455 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

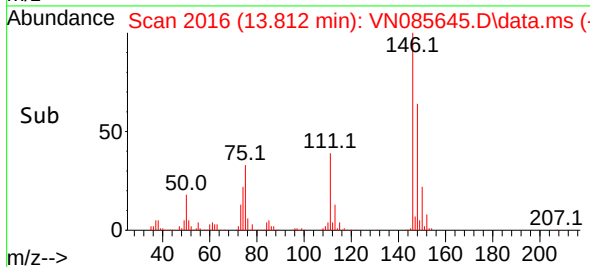
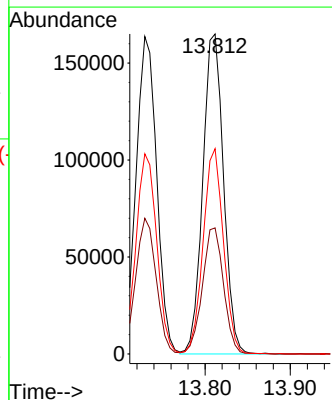
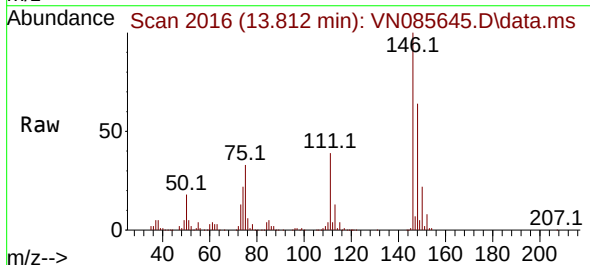
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

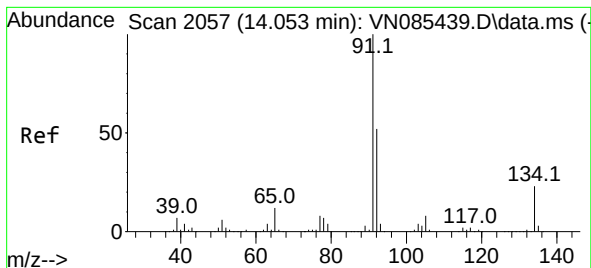
Tgt Ion:146 Resp: 277733
 Ion Ratio Lower Upper
 146 100
 111 42.4 21.4 64.3
 148 63.4 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 52.768 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085645.D
 Acq: 04 Feb 2025 11:05

Tgt Ion:146 Resp: 278955
 Ion Ratio Lower Upper
 146 100
 111 40.4 21.3 63.7
 148 63.0 32.4 97.0





#89

n-Butylbenzene

Concen: 58.781 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

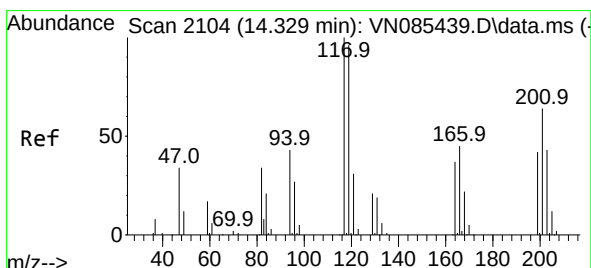
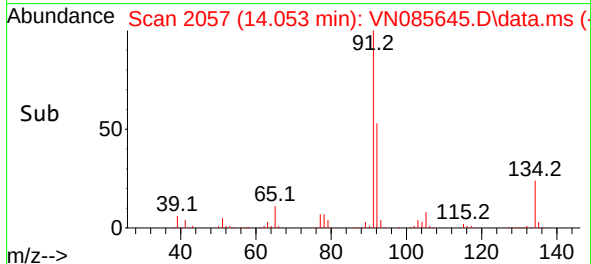
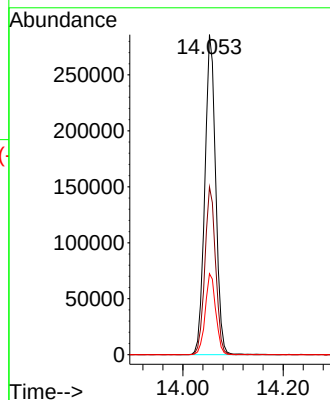
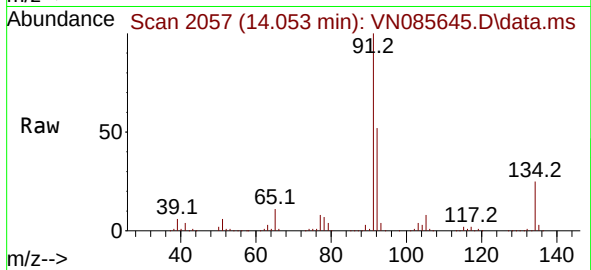
Tgt Ion: 91 Resp: 429742

Ion Ratio Lower Upper

91 100

92 52.0 25.8 77.3

134 24.6 11.7 35.1



#90

Hexachloroethane

Concen: 50.887 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085645.D

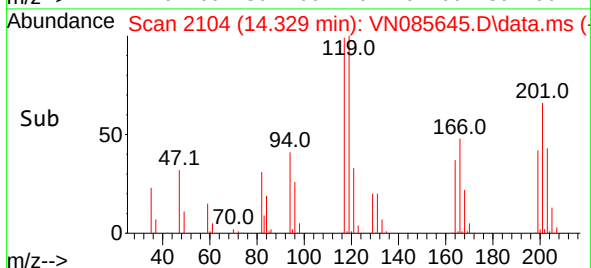
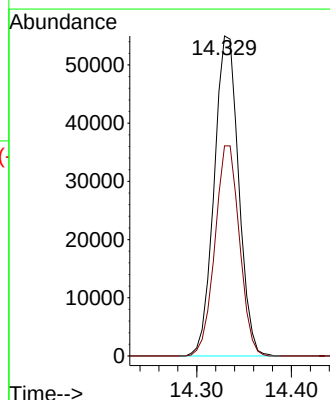
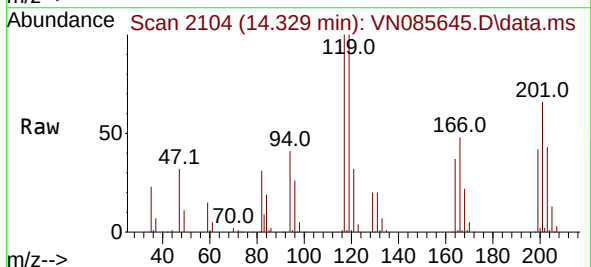
Acq: 04 Feb 2025 11:05

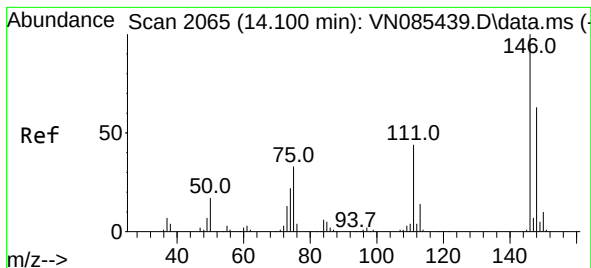
Tgt Ion: 117 Resp: 98723

Ion Ratio Lower Upper

117 100

201 65.8 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 52.333 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

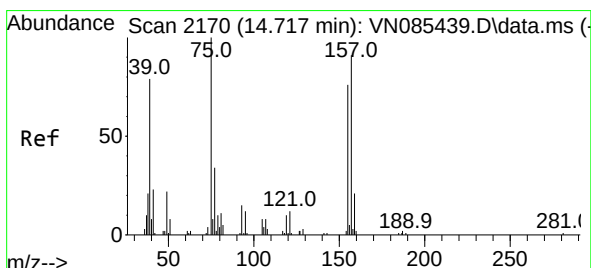
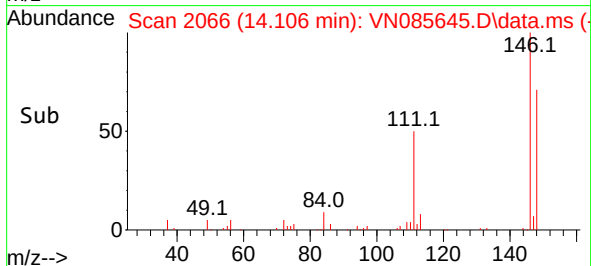
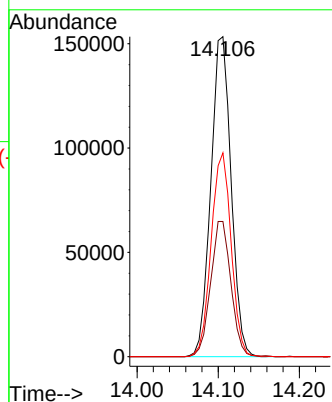
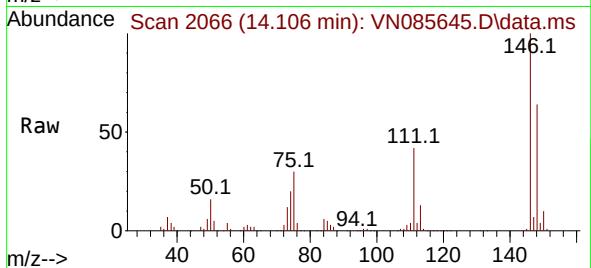
Tgt Ion:146 Resp: 266234

Ion Ratio Lower Upper

146 100

111 42.2 21.7 65.1

148 62.9 31.4 94.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.620 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

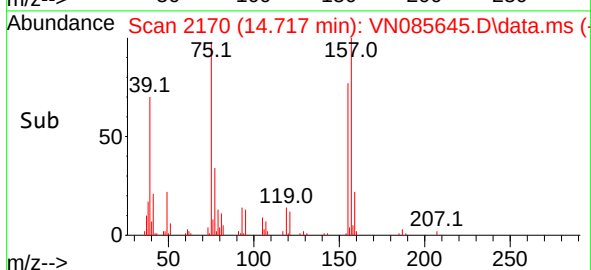
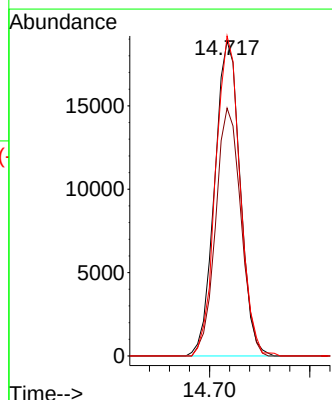
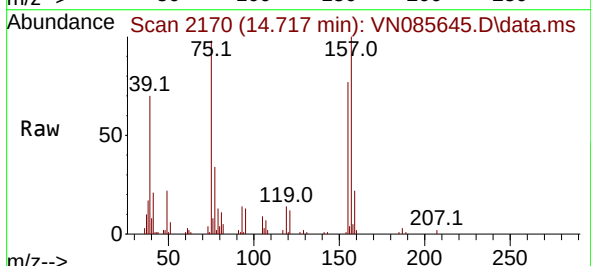
Tgt Ion: 75 Resp: 33244

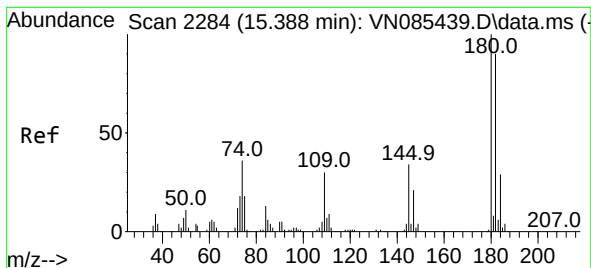
Ion Ratio Lower Upper

75 100

155 78.3 36.4 109.2

157 97.5 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 52.709 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

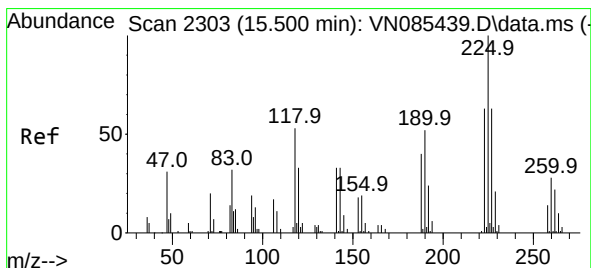
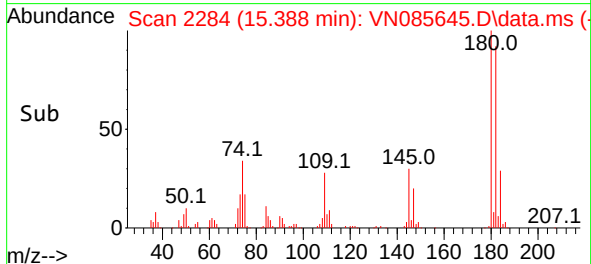
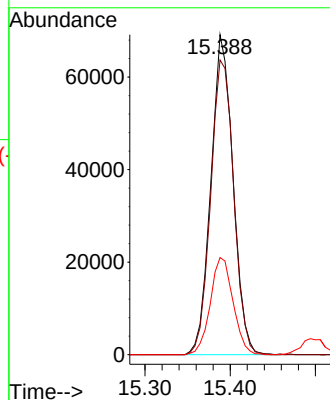
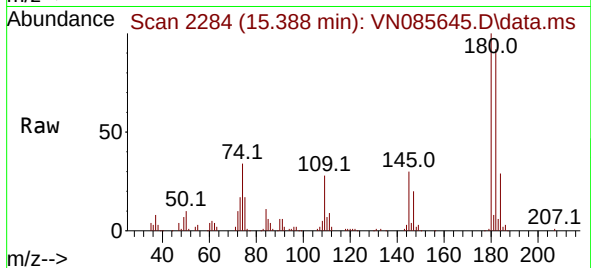
Tgt Ion:180 Resp: 124629

Ion Ratio Lower Upper

180 100

182 95.6 46.8 140.3

145 31.2 16.0 48.0



#94

Hexachlorobutadiene

Concen: 48.466 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085645.D

Acq: 04 Feb 2025 11:05

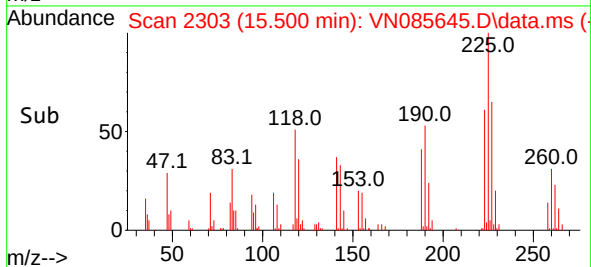
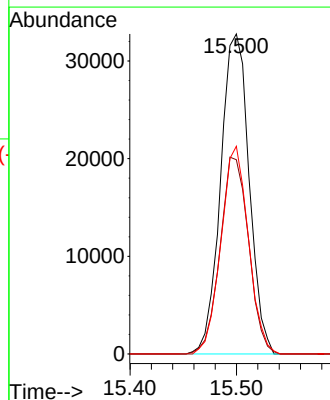
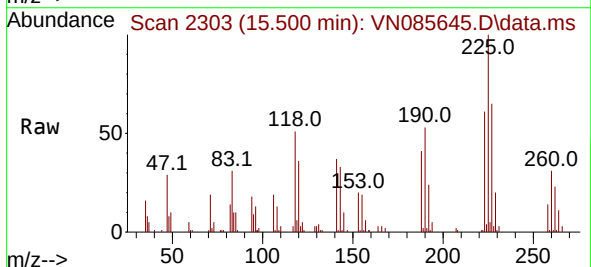
Tgt Ion:225 Resp: 60840

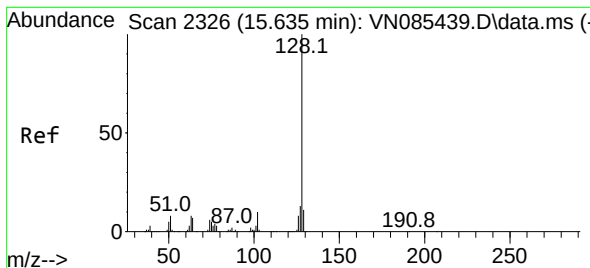
Ion Ratio Lower Upper

225 100

223 61.7 30.7 92.1

227 62.6 30.9 92.5

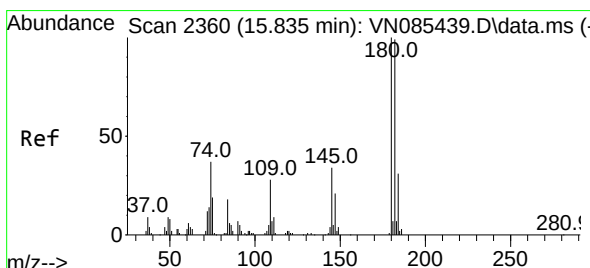
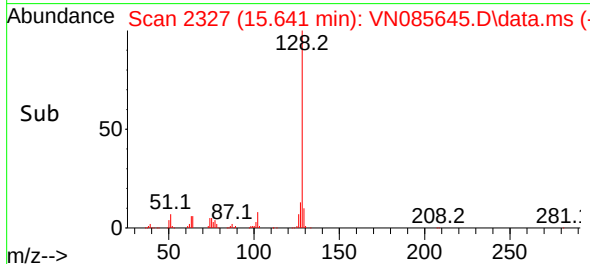
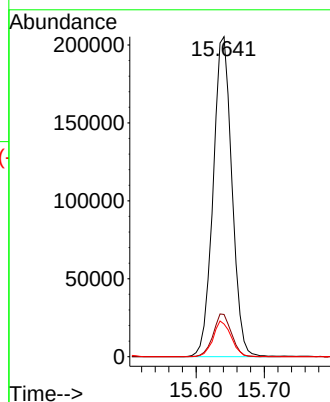
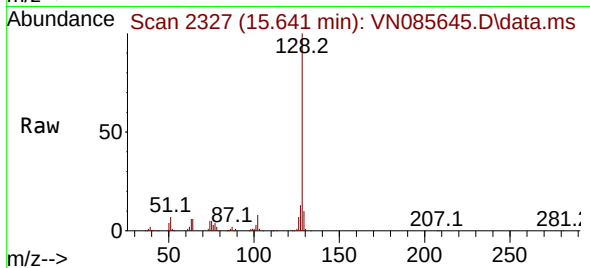




#95
Naphthalene
Concen: 55.897 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

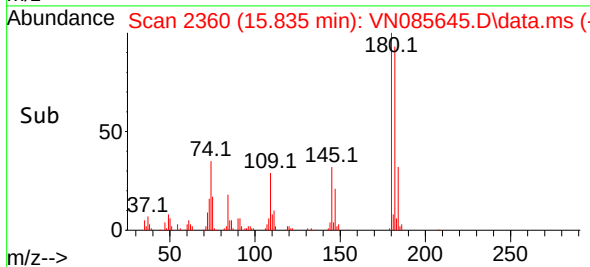
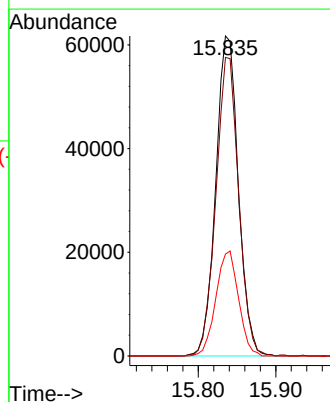
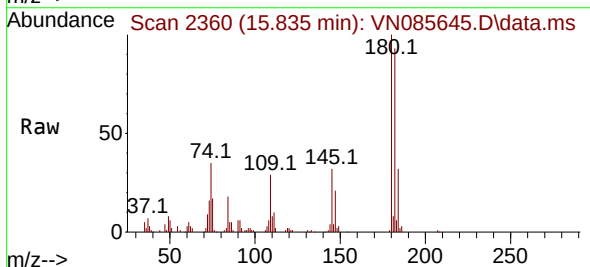
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 394392
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 10.7 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 52.330 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085645.D
Acq: 04 Feb 2025 11:05

Tgt Ion:180 Resp: 125197
Ion Ratio Lower Upper
180 100
182 94.0 47.4 142.2
145 32.8 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085651.D
 Acq On : 04 Feb 2025 14:51
 Operator : JC\MD
 Sample : VN0204WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

Quant Time: Feb 05 01:04:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	206401	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	367320	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	317764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150317	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	150502	45.172	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.340%
35) Dibromofluoromethane	8.165	113	124212	48.743	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.480%
50) Toluene-d8	10.565	98	450633	49.771	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.540%
62) 4-Bromofluorobenzene	12.847	95	148181	47.844	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.680%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	65996	23.616	ug/l	99
3) Chloromethane	2.359	50	62270	20.580	ug/l	97
4) Vinyl Chloride	2.512	62	76709	25.222	ug/l	98
5) Bromomethane	2.954	94	45534	24.786	ug/l	97
6) Chloroethane	3.118	64	47623	24.698	ug/l	92
7) Trichlorofluoromethane	3.495	101	90803	20.577	ug/l	99
8) Diethyl Ether	3.965	74	28815	18.901	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	53527	21.535	ug/l	98
10) Methyl Iodide	4.589	142	63259	22.224	ug/l	97
11) Tert butyl alcohol	5.524	59	41188	107.962	ug/l	98
12) 1,1-Dichloroethene	4.342	96	47753	21.557	ug/l	93
13) Acrolein	4.183	56	31533	60.548	ug/l	99
14) Allyl chloride	5.024	41	67153	18.682	ug/l	92
15) Acrylonitrile	5.718	53	123860	102.213	ug/l	99
16) Acetone	4.424	43	100115	92.999	ug/l	97
17) Carbon Disulfide	4.712	76	147410	21.613	ug/l	96
18) Methyl Acetate	5.030	43	62179	18.995	ug/l	94
19) Methyl tert-butyl Ether	5.795	73	145880	20.281	ug/l	96
20) Methylene Chloride	5.277	84	56823	21.322	ug/l	91
21) trans-1,2-Dichloroethene	5.789	96	51109	21.589	ug/l	89
22) Diisopropyl ether	6.671	45	148162	18.571	ug/l	95
23) Vinyl Acetate	6.606	43	533384	95.530	ug/l	96
24) 1,1-Dichloroethane	6.565	63	96240	19.783	ug/l	95
25) 2-Butanone	7.483	43	157483	99.409	ug/l #	87
26) 2,2-Dichloropropane	7.489	77	85009	21.614	ug/l	96
27) cis-1,2-Dichloroethene	7.483	96	58653	21.035	ug/l	93
28) Bromochloromethane	7.812	49	33036	14.596	ug/l	86
29) Tetrahydrofuran	7.836	42	102635	102.187	ug/l	90
30) Chloroform	7.965	83	101271	20.142	ug/l	99
31) Cyclohexane	8.259	56	78673	18.606	ug/l	90
32) 1,1,1-Trichloroethane	8.165	97	88190	19.996	ug/l	96
36) 1,1-Dichloropropene	8.371	75	70286	19.652	ug/l	99
37) Ethyl Acetate	7.559	43	65973	18.275	ug/l	98
38) Carbon Tetrachloride	8.365	117	78107	19.076	ug/l	96
39) Methylcyclohexane	9.600	83	67494	20.082	ug/l	94
40) Benzene	8.606	78	221792	20.639	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085651.D
 Acq On : 04 Feb 2025 14:51
 Operator : JC\MD
 Sample : VN0204WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

Quant Time: Feb 05 01:04:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	34320	18.274	ug/l	92
42) 1,2-Dichloroethane	8.671	62	73577	18.179	ug/l	97
43) Isopropyl Acetate	8.688	43	152214	26.315	ug/l #	90
44) Trichloroethene	9.353	130	49633	19.842	ug/l	97
45) 1,2-Dichloropropane	9.618	63	53997	19.672	ug/l	97
46) Dibromomethane	9.706	93	39110	19.747	ug/l	98
47) Bromodichloromethane	9.888	83	77727	19.263	ug/l	96
48) Methyl methacrylate	9.677	41	47105	18.096	ug/l	89
49) 1,4-Dioxane	9.694	88	19272	439.639	ug/l	94
51) 4-Methyl-2-Pentanone	10.441	43	328830	97.965	ug/l	94
52) Toluene	10.630	92	135369	21.741	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	74675	19.583	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	83030	20.385	ug/l #	87
55) 1,1,2-Trichloroethane	11.018	97	51534	20.914	ug/l	99
56) Ethyl methacrylate	10.871	69	70589	18.280	ug/l	94
57) 1,3-Dichloropropane	11.159	76	86420	20.170	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	106039	67.812	ug/l	97
59) 2-Hexanone	11.194	43	238617	101.031	ug/l	93
60) Dibromochloromethane	11.359	129	59256	19.918	ug/l	99
61) 1,2-Dibromoethane	11.465	107	50776	20.701	ug/l	99
64) Tetrachloroethene	11.100	164	45898	21.187	ug/l	97
65) Chlorobenzene	11.888	112	143836	20.663	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	51716	20.242	ug/l	100
67) Ethyl Benzene	11.965	91	233116	20.561	ug/l	98
68) m/p-Xylenes	12.071	106	181911	43.412	ug/l	98
69) o-Xylene	12.400	106	84365	21.067	ug/l	97
70) Styrene	12.412	104	145039	21.885	ug/l	97
71) Bromoform	12.576	173	38717	21.179	ug/l #	99
73) Isopropylbenzene	12.694	105	210944	20.793	ug/l	98
74) N-amyl acetate	12.494	43	84808	18.598	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	75120	20.962	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	95415	31.230	ug/l	40
77) Bromobenzene	12.976	156	54340	20.501	ug/l	95
78) n-propylbenzene	13.035	91	250899	20.891	ug/l	99
79) 2-Chlorotoluene	13.124	91	158204	20.353	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	178682	21.323	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	24629	21.810	ug/l	90
82) 4-Chlorotoluene	13.218	91	157925	20.405	ug/l	98
83) tert-Butylbenzene	13.435	119	140205	19.923	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	178481	21.370	ug/l	97
85) sec-Butylbenzene	13.612	105	202909	20.804	ug/l	100
86) p-Isopropyltoluene	13.729	119	167070	20.523	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	97119	19.896	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	98065	19.382	ug/l	99
89) n-Butylbenzene	14.053	91	130043	18.585	ug/l	98
90) Hexachloroethane	14.329	117	35354	19.041	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	95513	19.617	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13567	20.732	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	39645	17.519	ug/l	96
94) Hexachlorobutadiene	15.500	225	20609	17.154	ug/l	98
95) Naphthalene	15.641	128	123413	18.276	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	41163	17.977	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085651.D
Acq On : 04 Feb 2025 14:51
Operator : JC\MD
Sample : VN0204WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

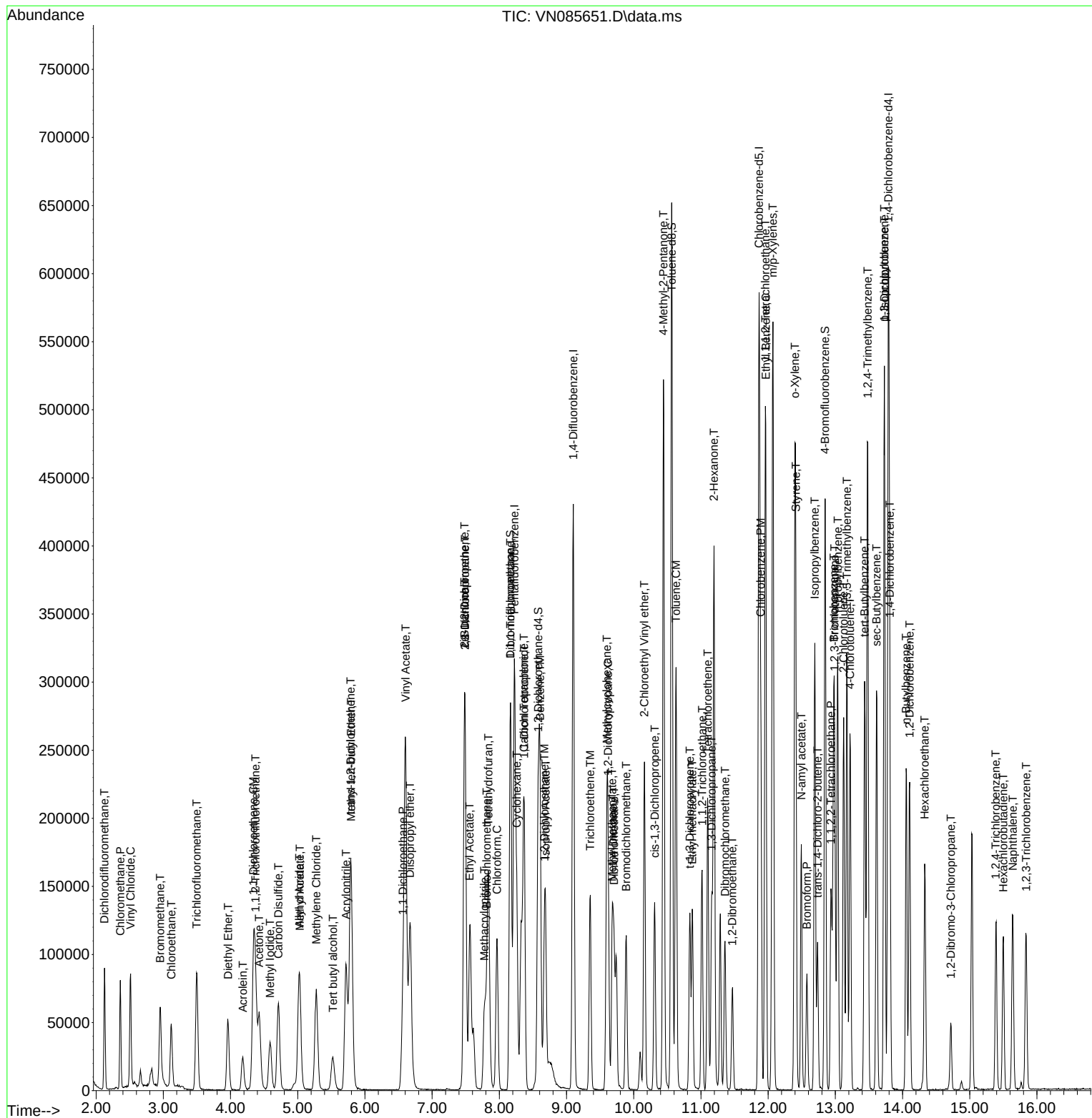
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Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

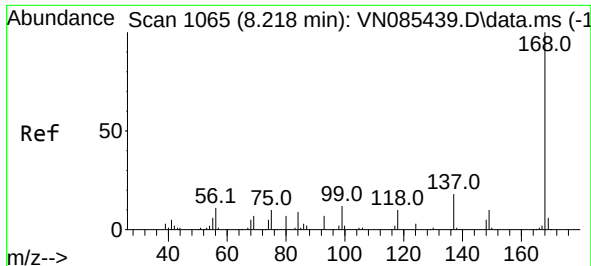
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Quant Time: Feb 05 01:04:28 2025
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Response via : Initial Calibration

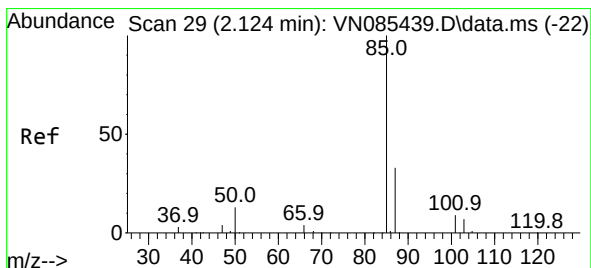
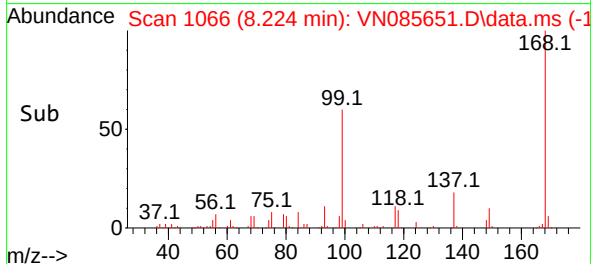
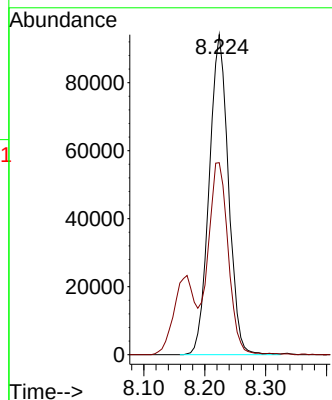
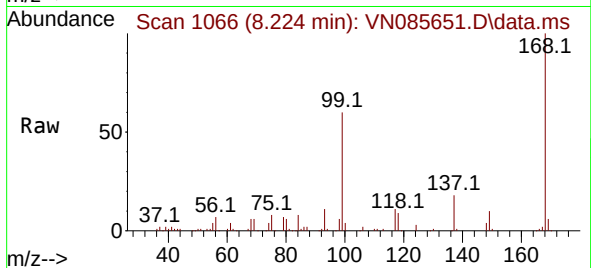




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

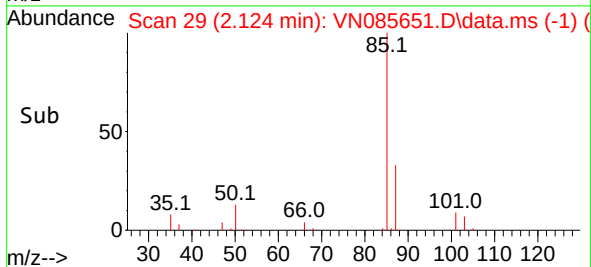
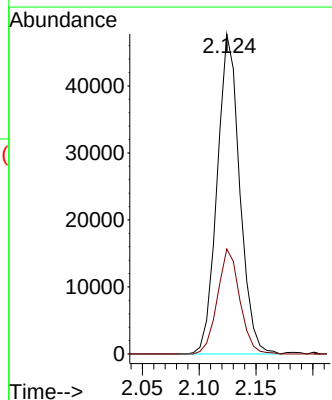
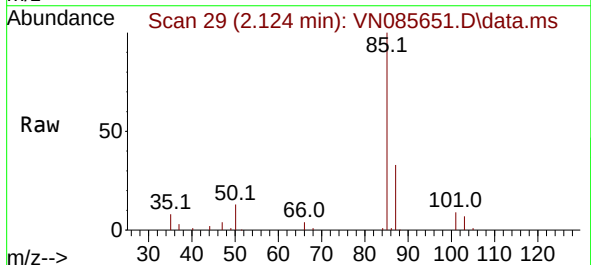
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

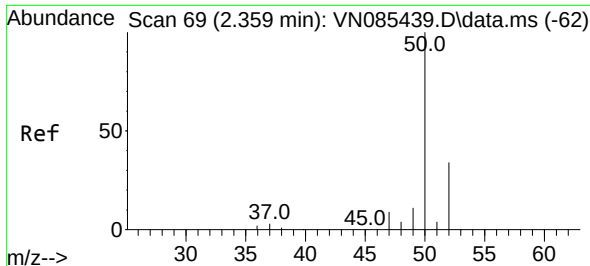
Tgt Ion:168 Resp: 206401
Ion Ratio Lower Upper
168 100
99 59.8 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 23.616 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 85 Resp: 65996
Ion Ratio Lower Upper
85 100
87 32.8 16.7 50.1

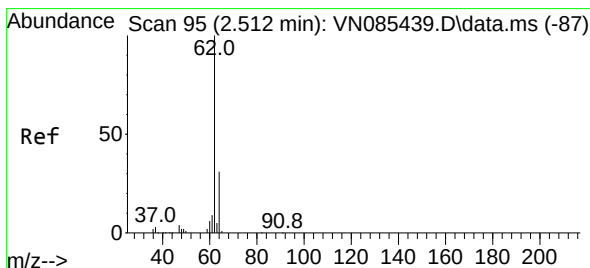
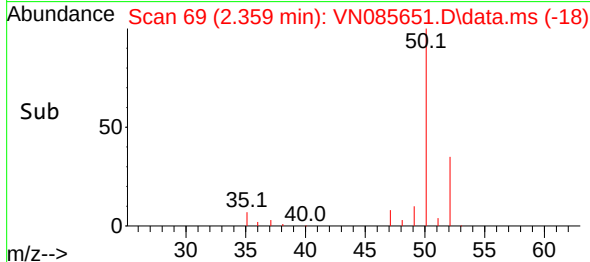
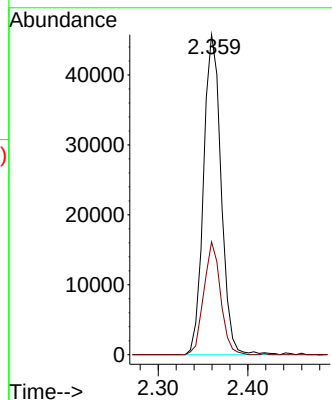
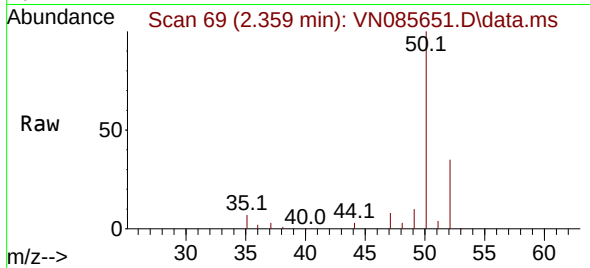




#3
Chloromethane
Concen: 20.580 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

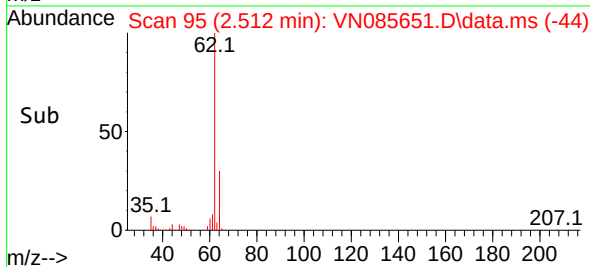
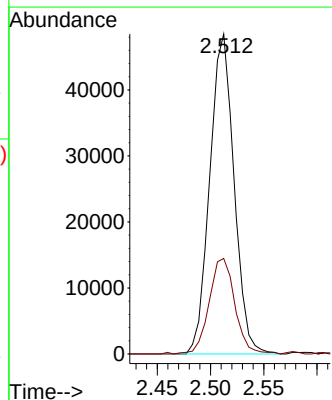
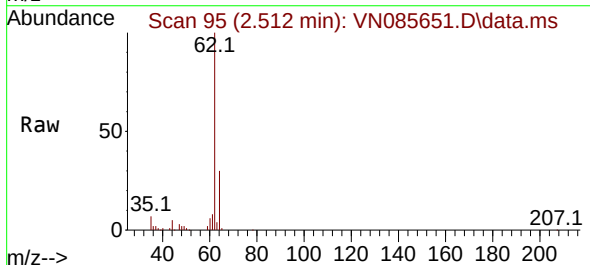
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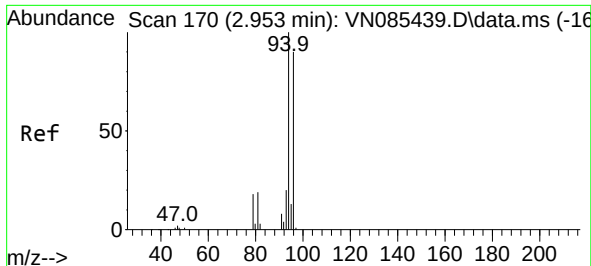
Tgt Ion: 50 Resp: 62270
Ion Ratio Lower Upper
50 100
52 35.3 27.0 40.6



#4
Vinyl Chloride
Concen: 25.222 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 62 Resp: 76709
Ion Ratio Lower Upper
62 100
64 29.8 24.8 37.2

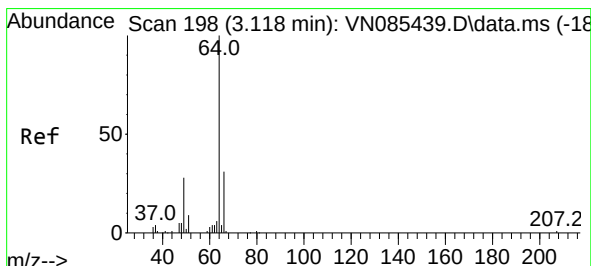
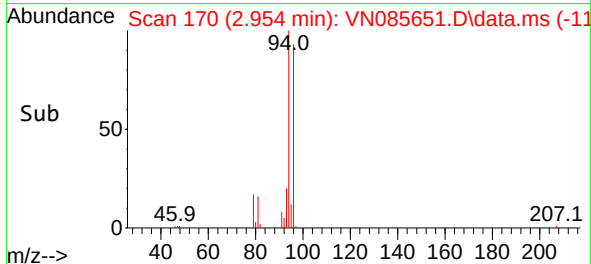
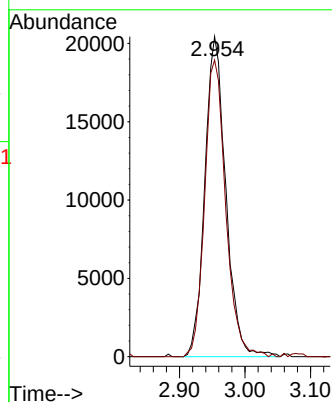
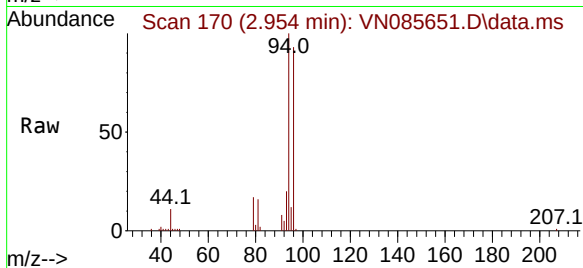




#5
Bromomethane
Concen: 24.786 ug/l
RT: 2.954 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

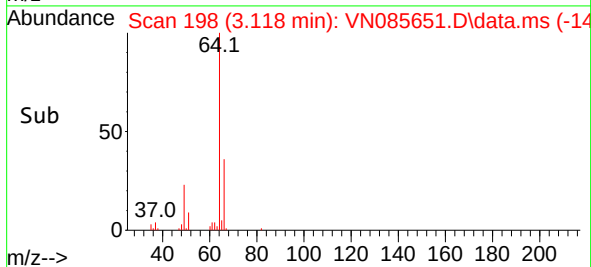
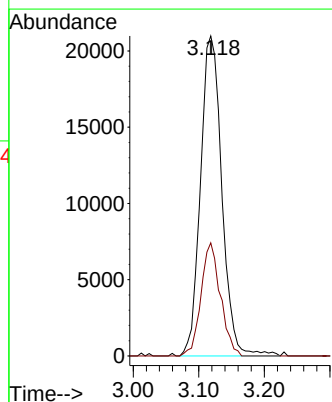
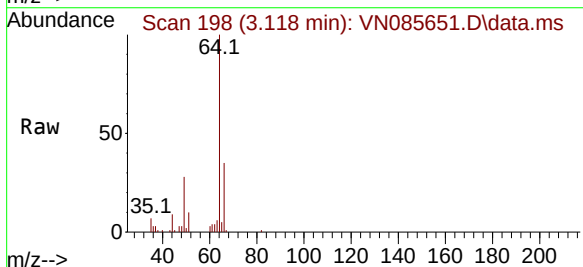
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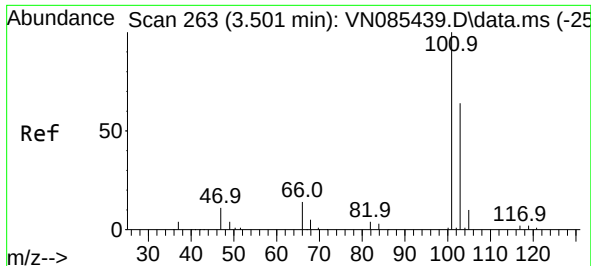
Tgt Ion: 94 Resp: 45534
Ion Ratio Lower Upper
94 100
96 92.7 71.8 107.6



#6
Chloroethane
Concen: 24.698 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 64 Resp: 47623
Ion Ratio Lower Upper
64 100
66 35.3 24.6 36.8

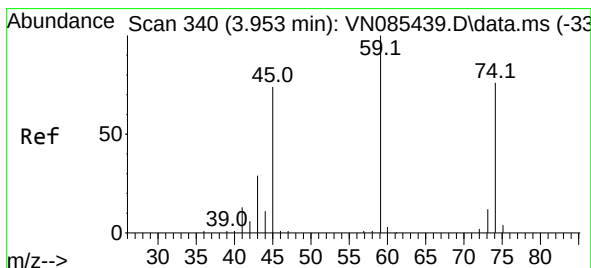
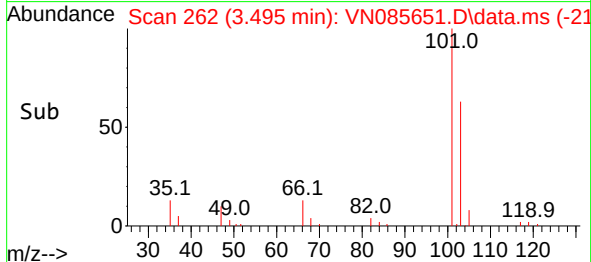
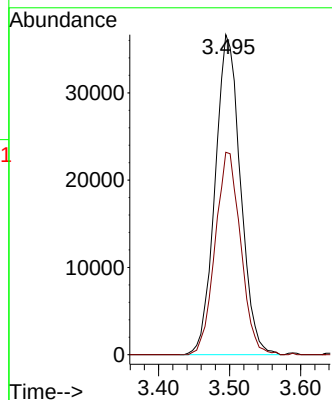
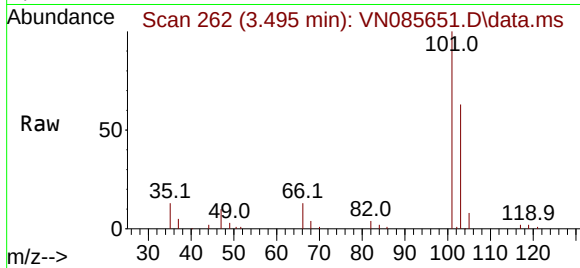




#7
 Trichlorofluoromethane
 Concen: 20.577 ug/l
 RT: 3.495 min Scan# 210
 Delta R.T. -0.006 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

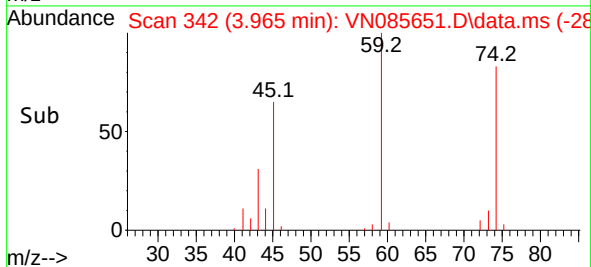
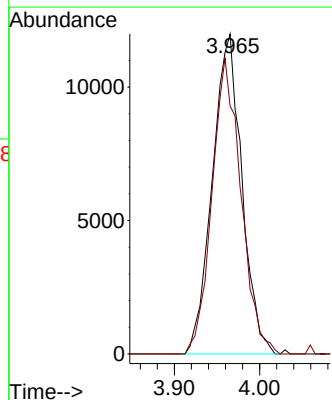
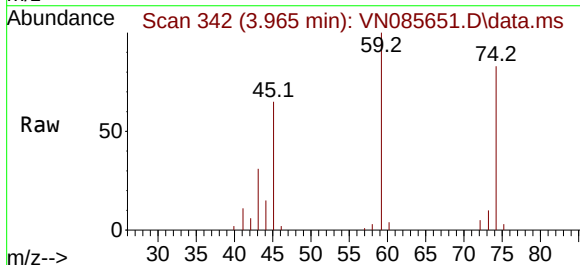
Instrument :
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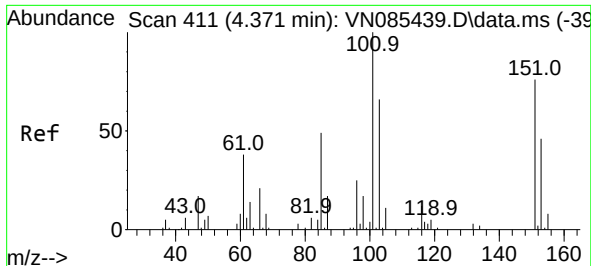
Tgt Ion:101 Resp: 90803
 Ion Ratio Lower Upper
 101 100
 103 63.2 51.4 77.2



#8
 Diethyl Ether
 Concen: 18.901 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.012 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion: 74 Resp: 28815
 Ion Ratio Lower Upper
 74 100
 45 90.7 49.7 149.1

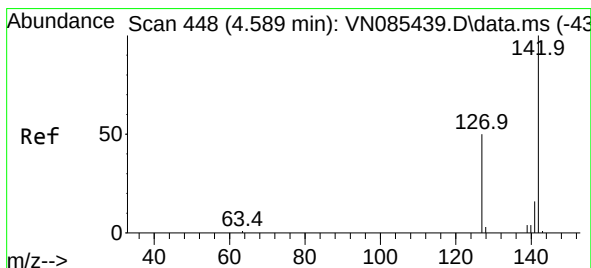
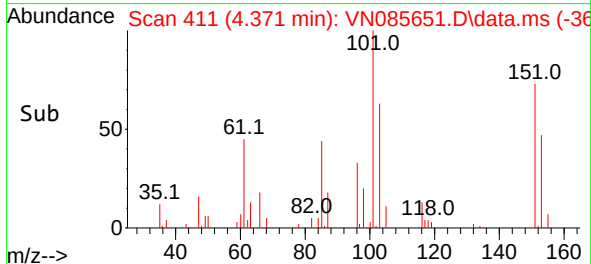
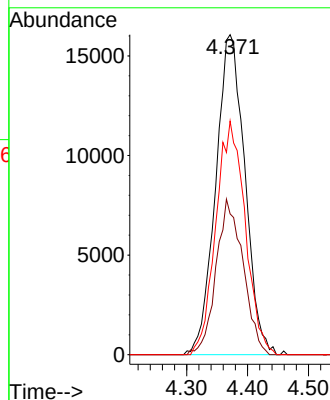
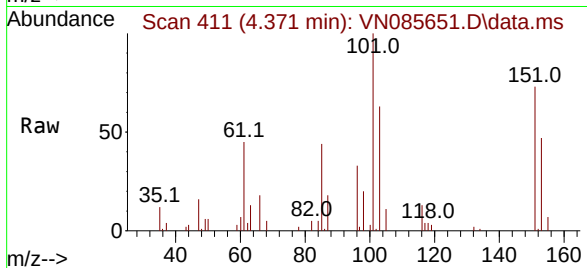




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 21.535 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

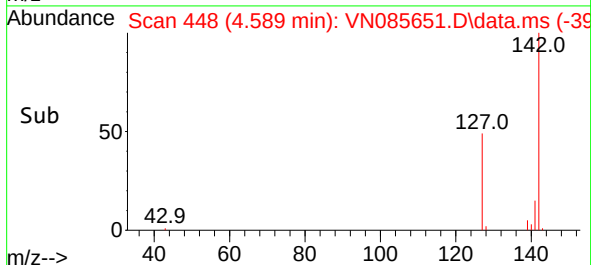
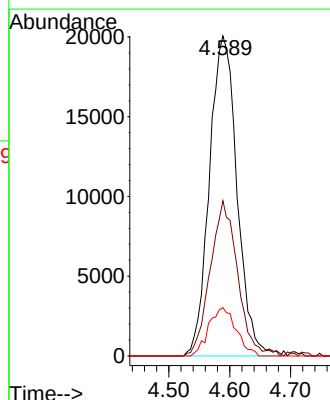
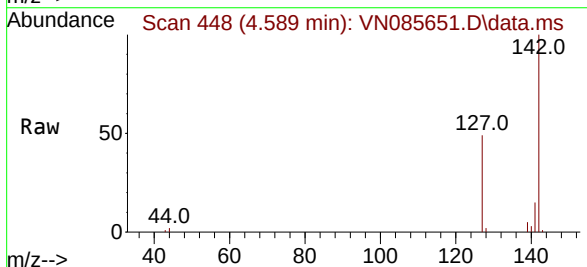
Instrument :
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 ClientSampleId :
 VN0204WBS02

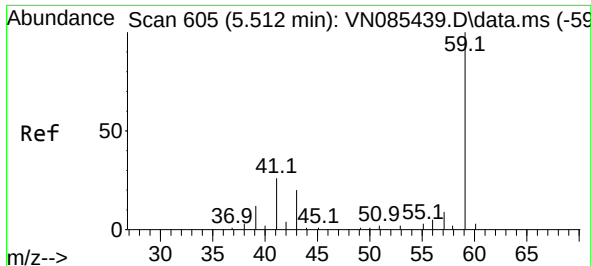
Tgt Ion:101 Resp: 53527
 Ion Ratio Lower Upper
 101 100
 85 44.9 37.8 56.8
 151 73.3 58.8 88.2



#10
 Methyl Iodide
 Concen: 22.224 ug/l
 RT: 4.589 min Scan# 448
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion:142 Resp: 63259
 Ion Ratio Lower Upper
 142 100
 127 48.5 40.3 60.5
 141 15.1 12.8 19.2

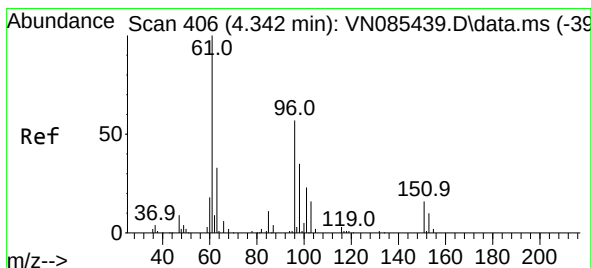
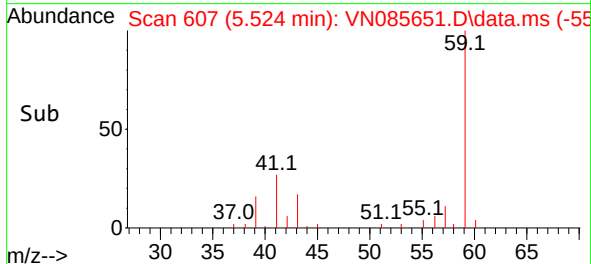
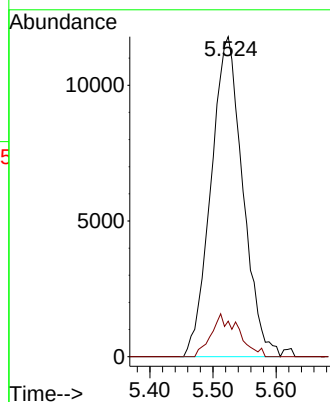
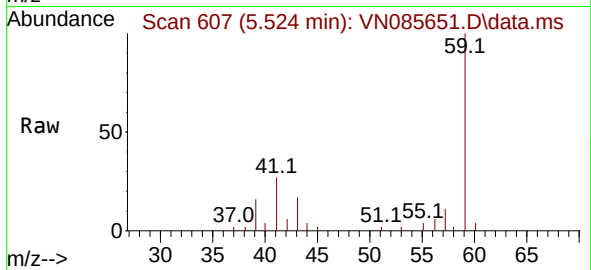




#11
Tert butyl alcohol
Concen: 107.962 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

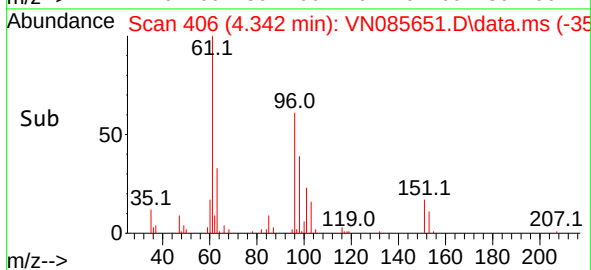
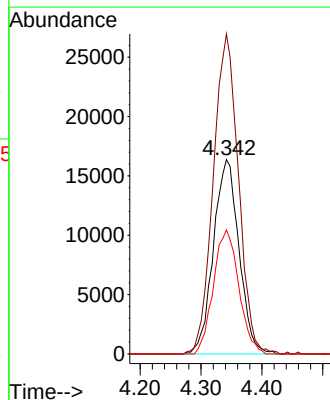
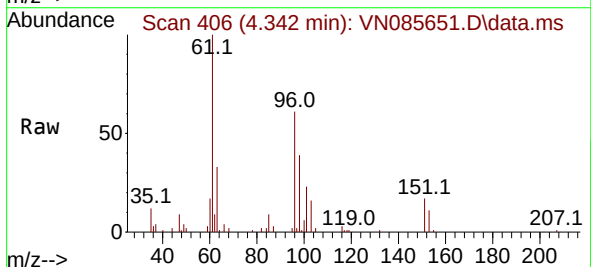
Instrument :
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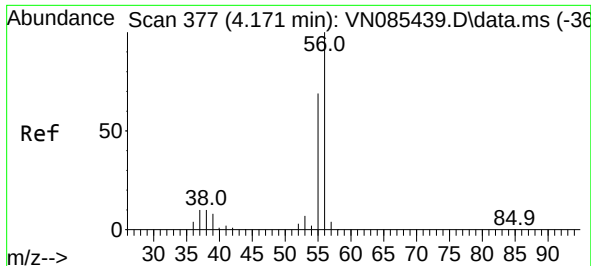
Tgt Ion: 59 Resp: 41188
Ion Ratio Lower Upper
59 100
57 11.6 8.6 13.0



#12
1,1-Dichloroethene
Concen: 21.557 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 96 Resp: 47753
Ion Ratio Lower Upper
96 100
61 164.6 141.0 211.4
98 63.8 49.0 73.6





#13

Acrolein

Concen: 60.548 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.012 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

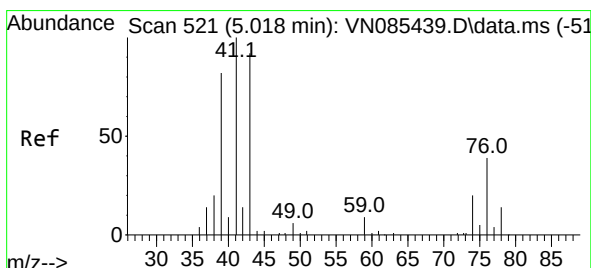
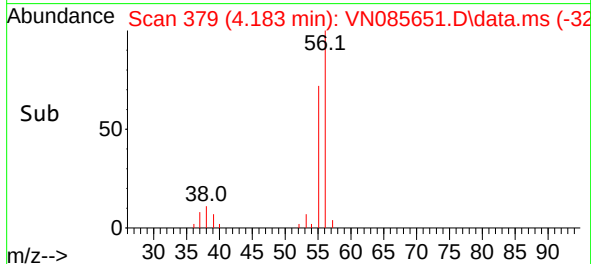
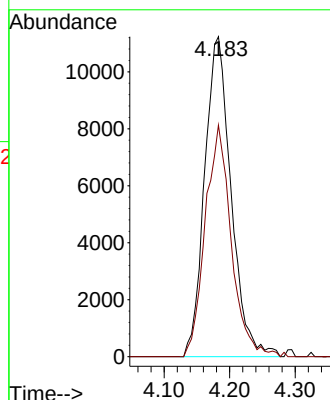
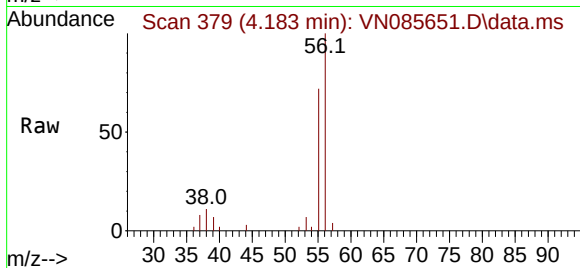
VN0204WBS02

Tgt Ion: 56 Resp: 31533

Ion Ratio Lower Upper

56 100

55 71.3 56.3 84.5



#14

Allyl chloride

Concen: 18.682 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

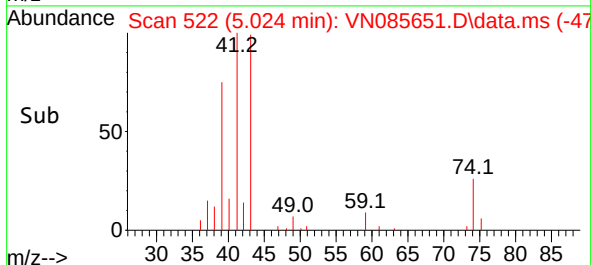
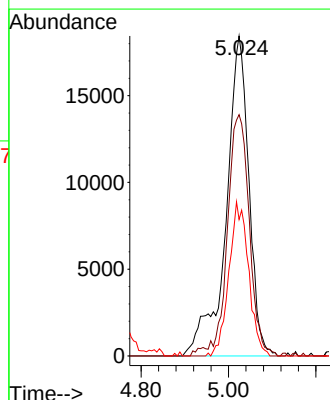
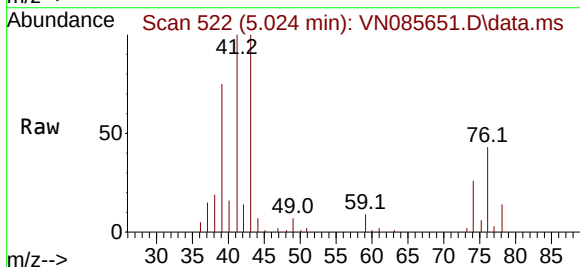
Tgt Ion: 41 Resp: 67153

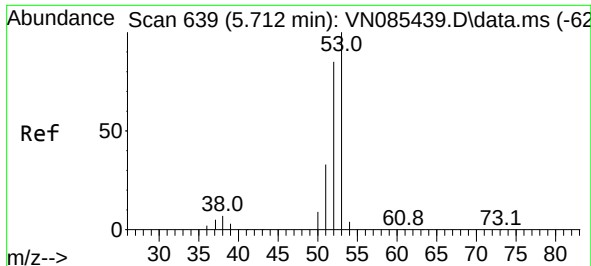
Ion Ratio Lower Upper

41 100

39 72.3 64.4 96.6

76 41.3 30.5 45.7

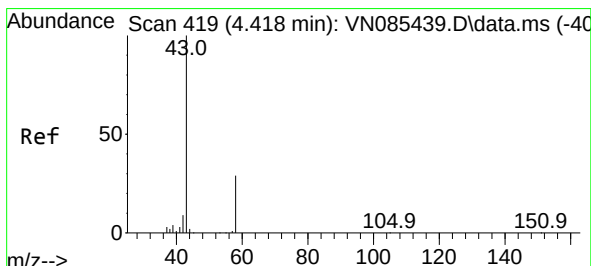
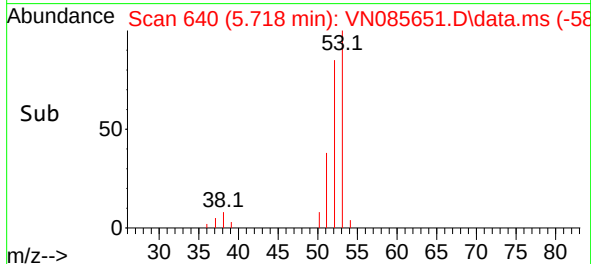
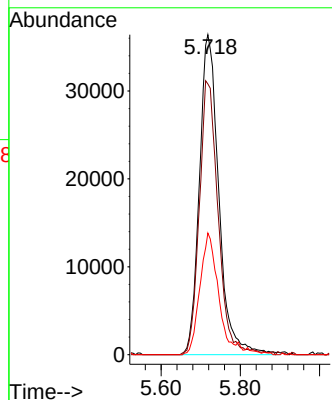
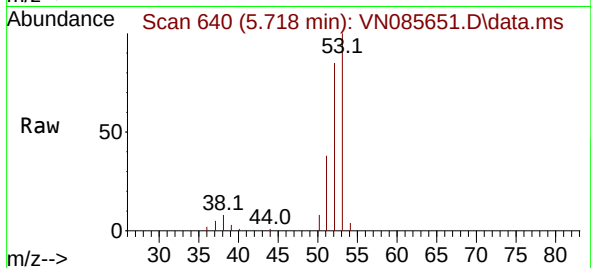




#15
Acrylonitrile
Concen: 102.213 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

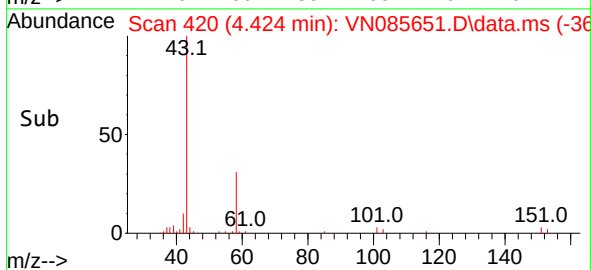
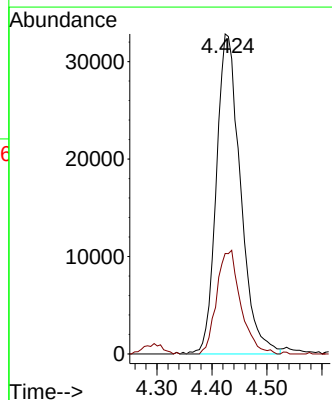
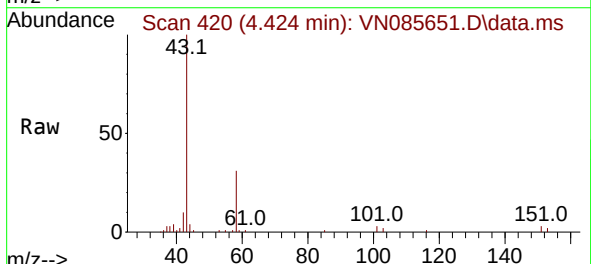
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

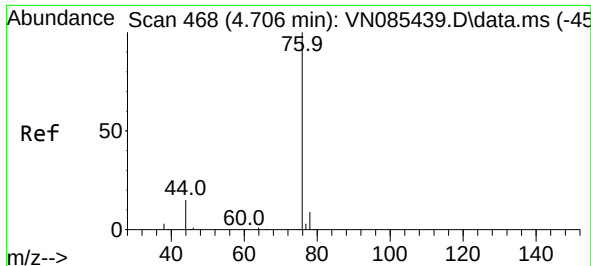
Tgt Ion: 53 Resp: 123860
Ion Ratio Lower Upper
53 100
52 82.8 65.5 98.3
51 36.5 29.8 44.8



#16
Acetone
Concen: 92.999 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 43 Resp: 100115
Ion Ratio Lower Upper
43 100
58 31.4 23.8 35.6

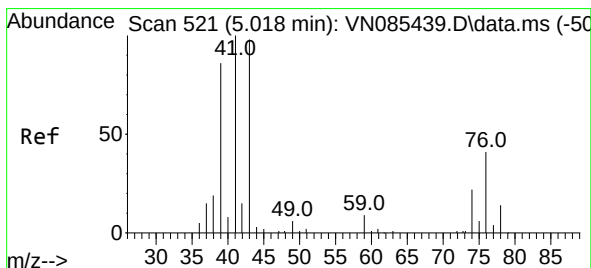
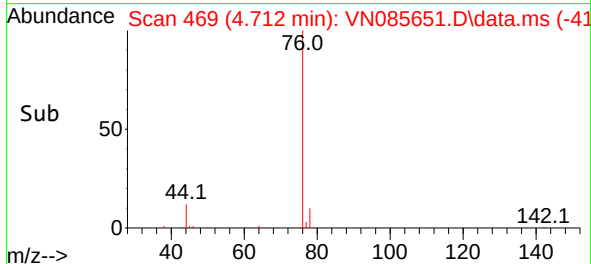
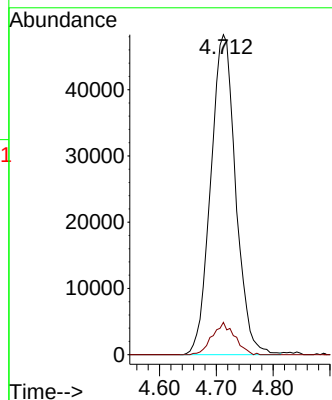
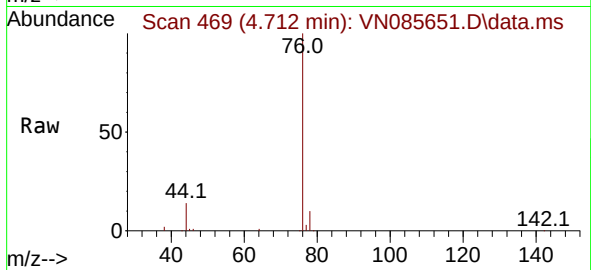




#17
Carbon Disulfide
Concen: 21.613 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

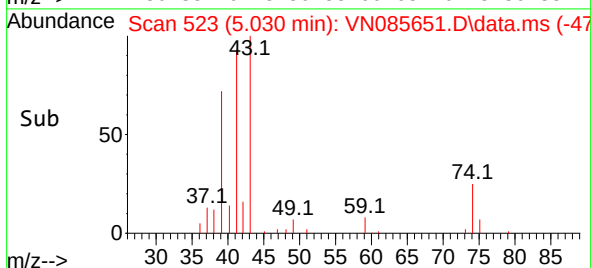
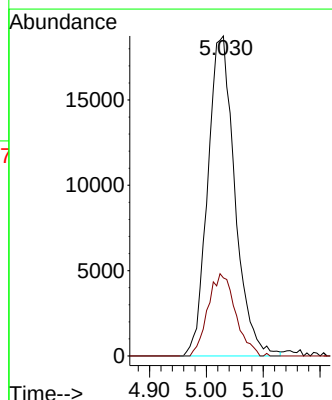
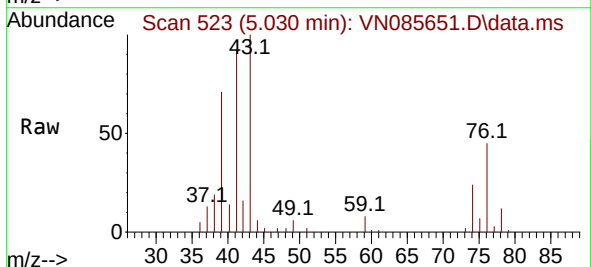
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

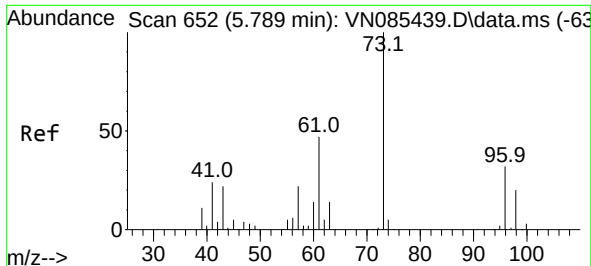
Tgt Ion: 76 Resp: 147410
Ion Ratio Lower Upper
76 100
78 10.1 6.9 10.3



#18
Methyl Acetate
Concen: 18.995 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 43 Resp: 62179
Ion Ratio Lower Upper
43 100
74 26.0 18.6 28.0

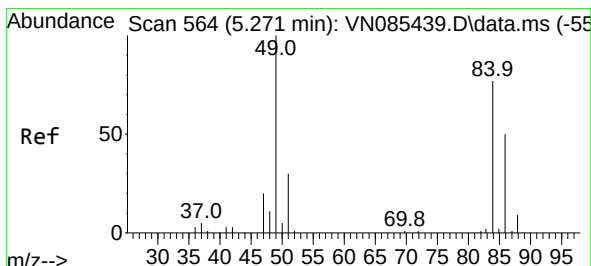
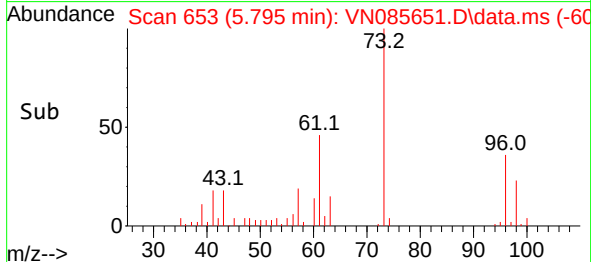
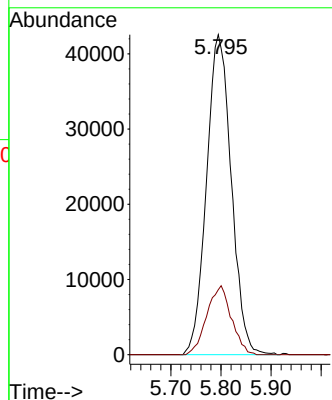
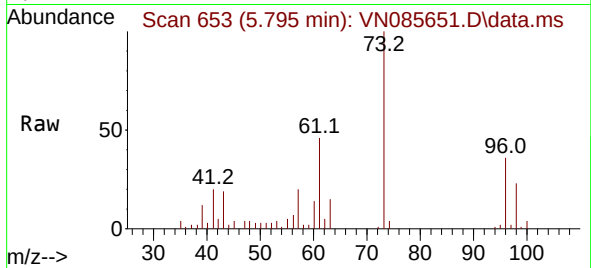




#19
Methyl tert-butyl Ether
Concen: 20.281 ug/l
RT: 5.795 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

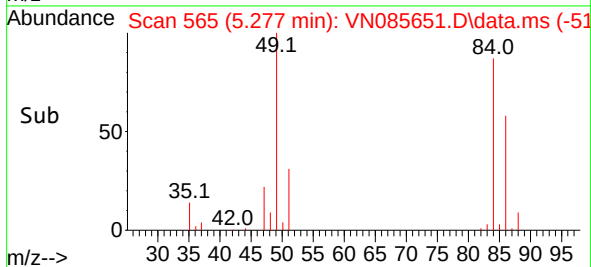
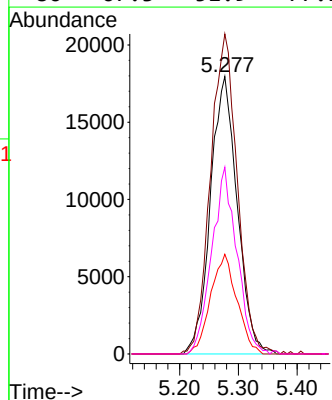
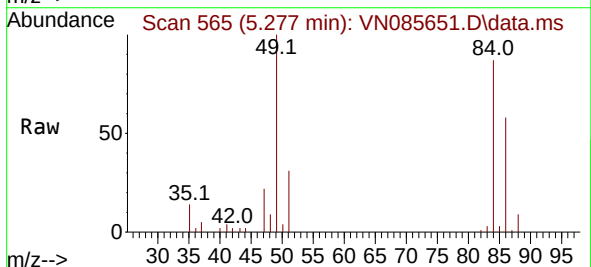
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

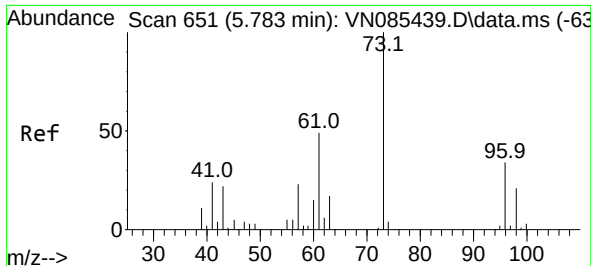
Tgt Ion: 73 Resp: 145880
Ion Ratio Lower Upper
73 100
57 20.3 17.8 26.8



#20
Methylene Chloride
Concen: 21.322 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 84 Resp: 56823
Ion Ratio Lower Upper
84 100
49 115.3 104.1 156.1
51 36.0 31.0 46.4
86 67.3 51.9 77.9

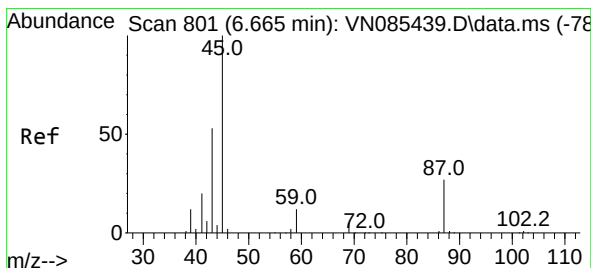
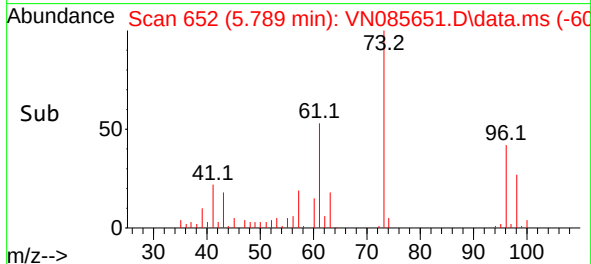
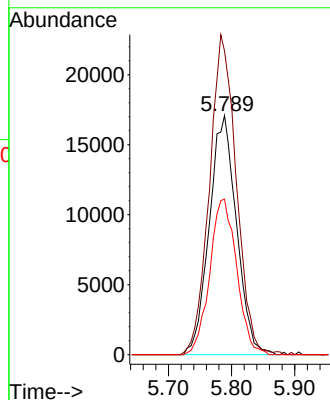
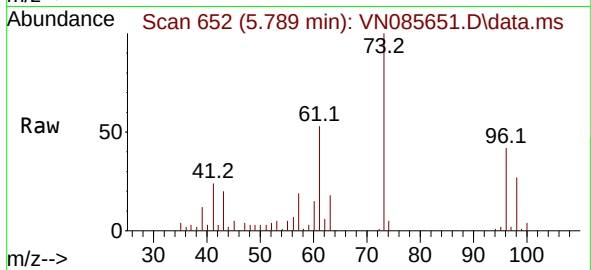




#21
trans-1,2-Dichloroethene
Concen: 21.589 ug/l
RT: 5.789 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

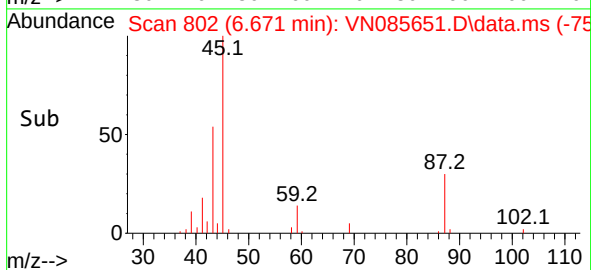
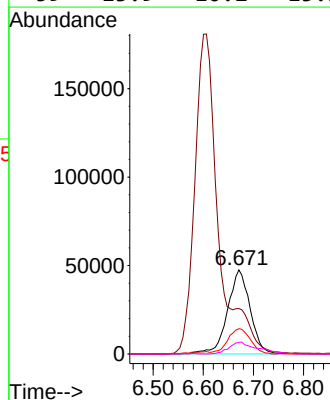
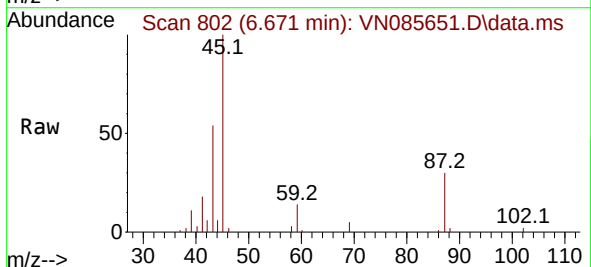
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

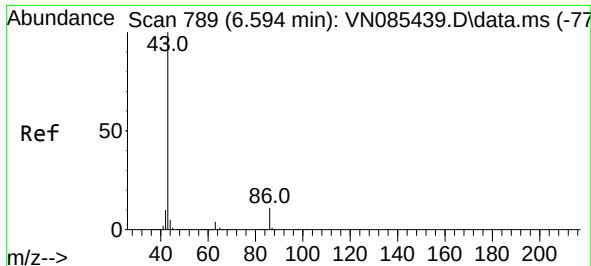
Tgt Ion: 96 Resp: 51109
Ion Ratio Lower Upper
96 100
61 126.9 115.7 173.5
98 65.0 49.8 74.8



#22
Diisopropyl ether
Concen: 18.571 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 45 Resp: 148162
Ion Ratio Lower Upper
45 100
43 51.9 45.0 67.6
87 29.7 21.8 32.8
59 13.9 10.2 15.2

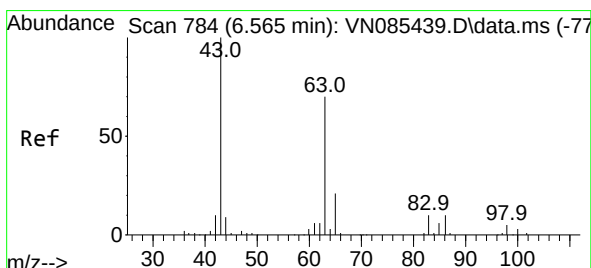
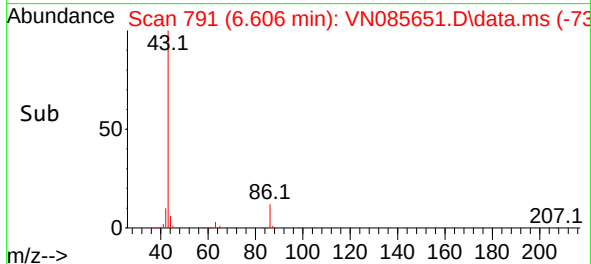
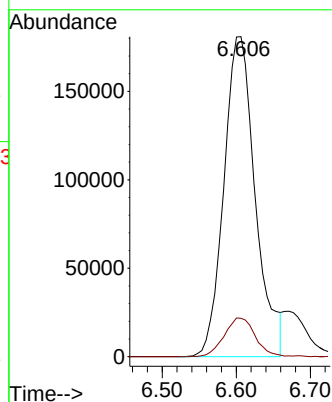
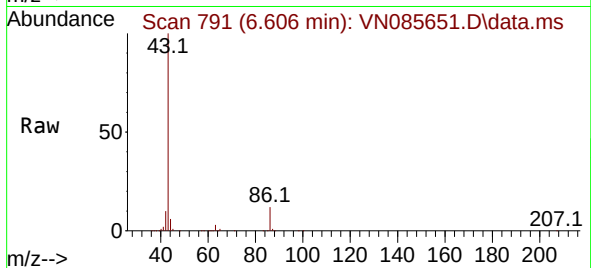




#23
 Vinyl Acetate
 Concen: 95.530 ug/l
 RT: 6.606 min Scan# 791
 Delta R.T. 0.012 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

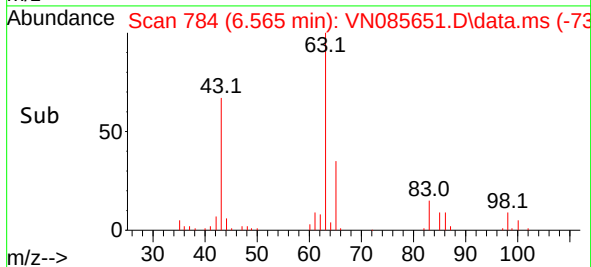
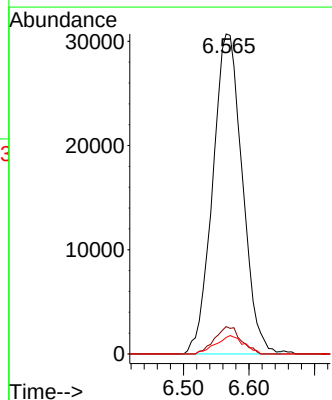
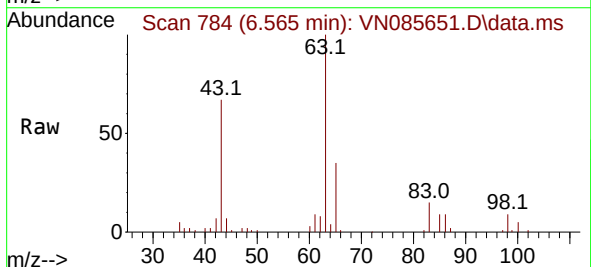
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

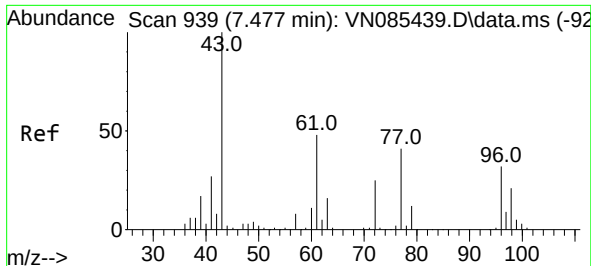
Tgt Ion: 43 Resp: 533384
 Ion Ratio Lower Upper
 43 100
 86 12.0 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 19.783 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion: 63 Resp: 96240
 Ion Ratio Lower Upper
 63 100
 98 8.5 3.3 9.8
 100 5.1 2.0 6.0

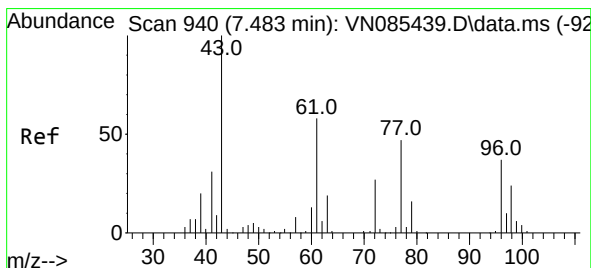
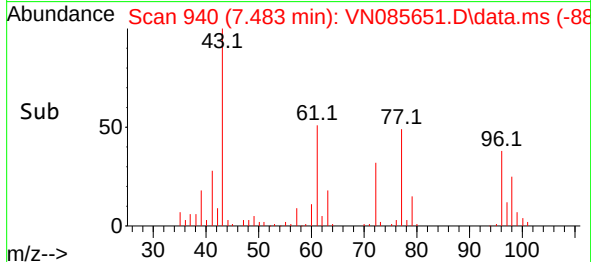
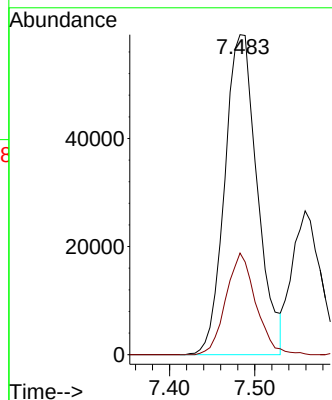
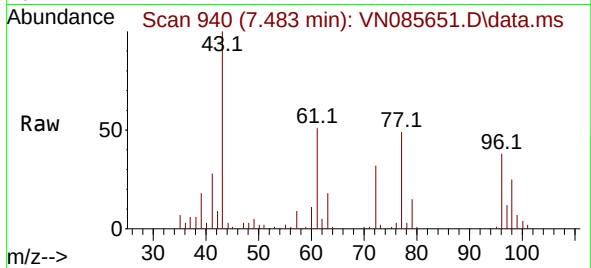




#25
2-Butanone
Concen: 99.409 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

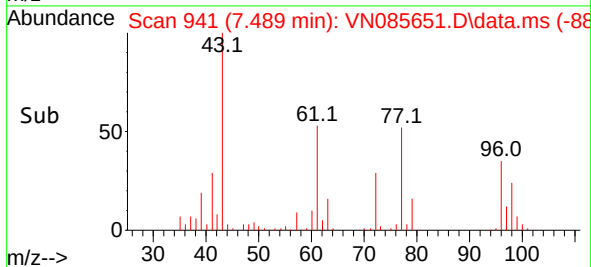
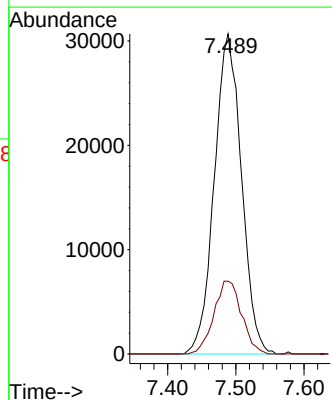
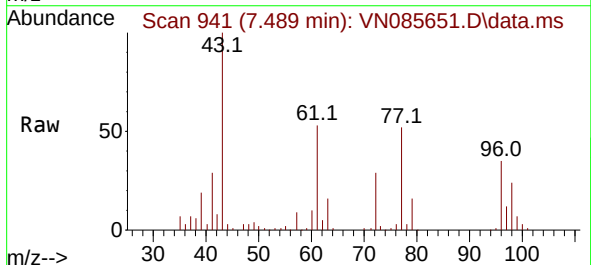
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

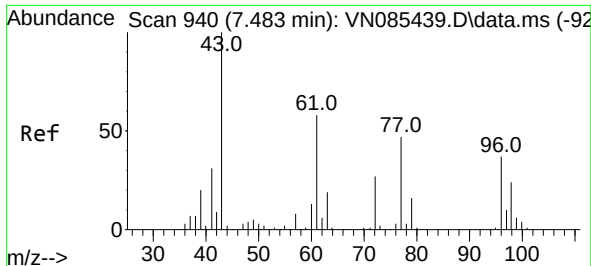
Tgt Ion: 43 Resp: 157483
Ion Ratio Lower Upper
43 100
72 31.8 20.2 30.4#



#26
2,2-Dichloropropane
Concen: 21.614 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 77 Resp: 85009
Ion Ratio Lower Upper
77 100
97 23.2 10.7 32.1

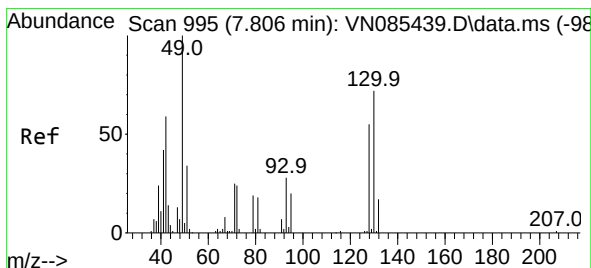
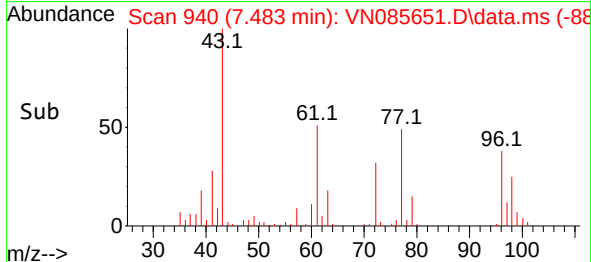
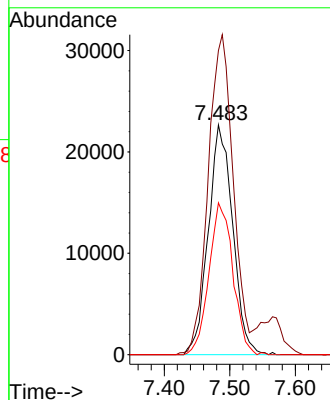
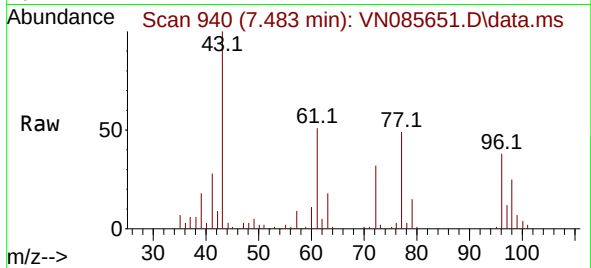




#27
 cis-1,2-Dichloroethene
 Concen: 21.035 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

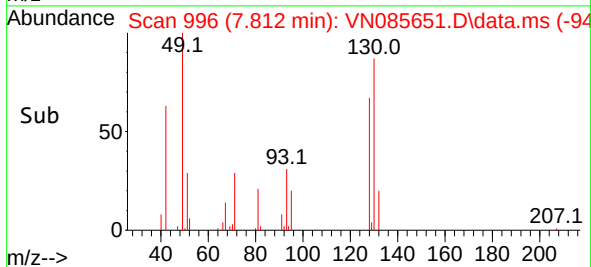
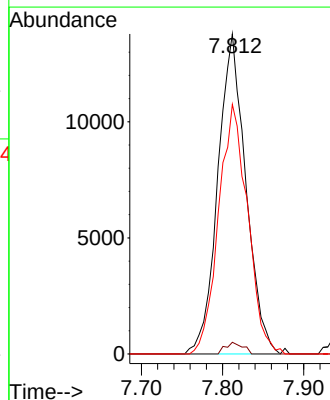
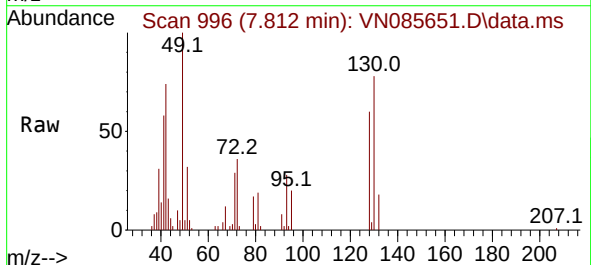
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

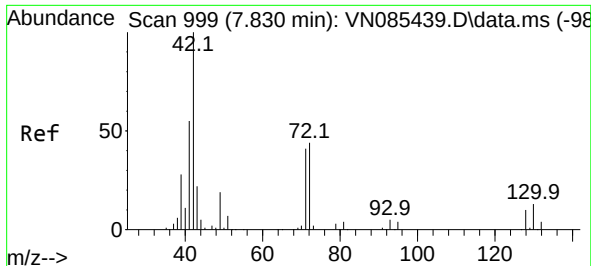
Tgt Ion: 96 Resp: 58653
 Ion Ratio Lower Upper
 96 100
 61 143.5 0.0 311.8
 98 64.7 0.0 126.0



#28
 Bromochloromethane
 Concen: 14.596 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.006 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion: 49 Resp: 33036
 Ion Ratio Lower Upper
 49 100
 129 2.2 0.0 4.4
 130 80.8 55.0 82.4





#29

Tetrahydrofuran

Concen: 102.187 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

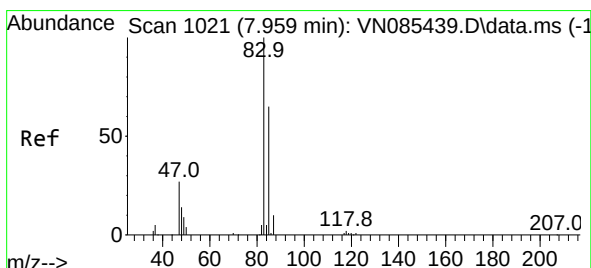
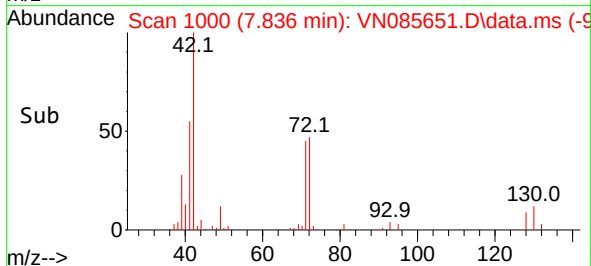
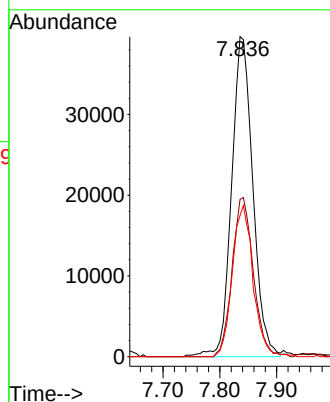
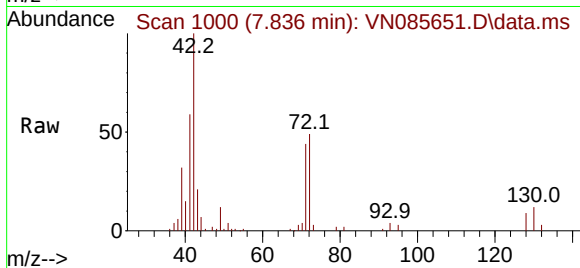
Tgt Ion: 42 Resp: 102635

Ion Ratio Lower Upper

42 100

72 50.0 34.2 51.2

71 46.2 32.5 48.7



#30

Chloroform

Concen: 20.142 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085651.D

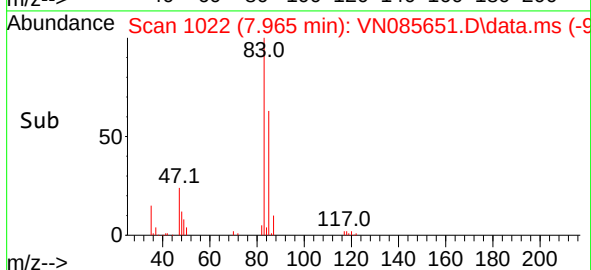
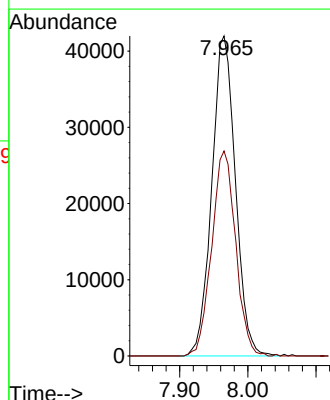
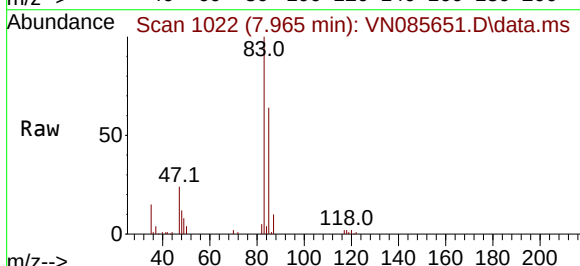
Acq: 04 Feb 2025 14:51

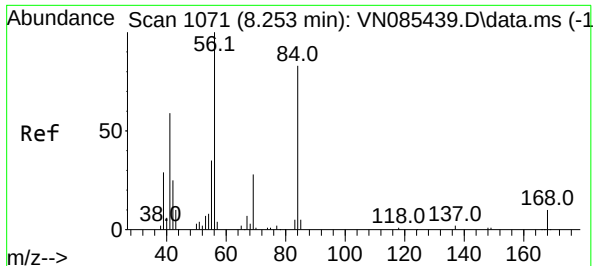
Tgt Ion: 83 Resp: 101271

Ion Ratio Lower Upper

83 100

85 64.0 51.8 77.6





#31

Cyclohexane

Concen: 18.606 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

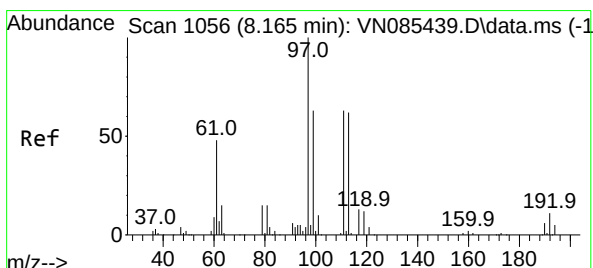
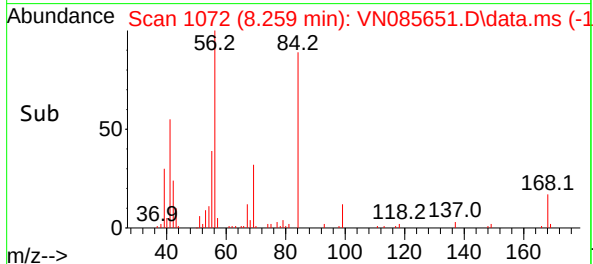
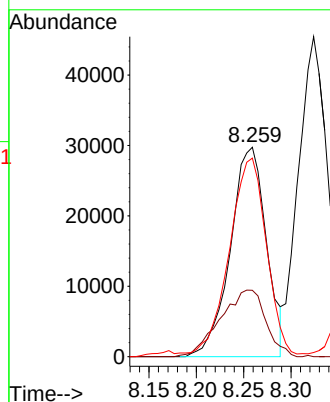
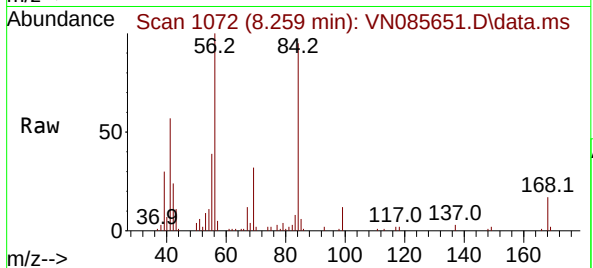
Tgt Ion: 56 Resp: 78673

Ion Ratio Lower Upper

56 100

69 31.0 22.2 33.4

84 93.0 66.4 99.6



#32

1,1,1-Trichloroethane

Concen: 19.996 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

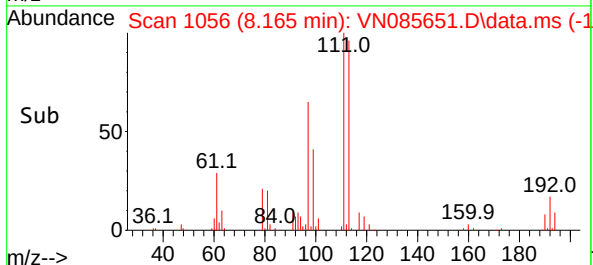
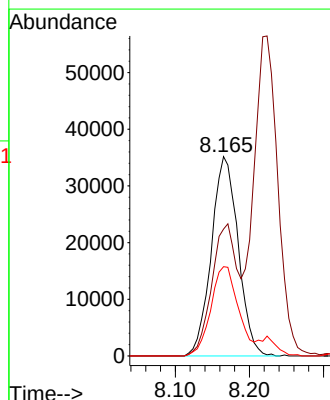
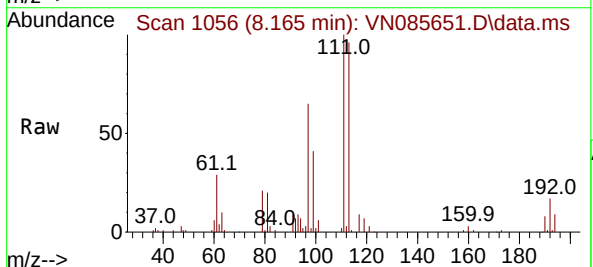
Tgt Ion: 97 Resp: 88190

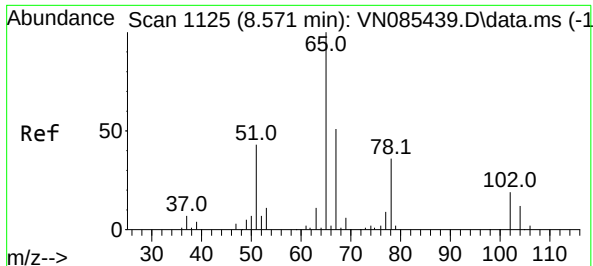
Ion Ratio Lower Upper

97 100

99 62.7 49.8 74.6

61 46.1 41.4 62.2

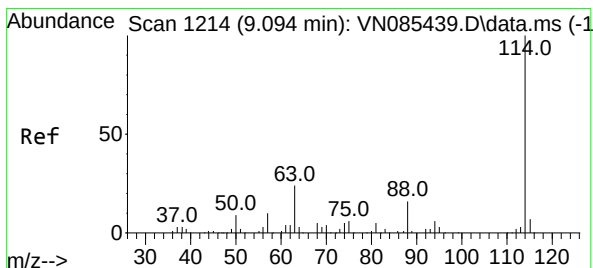
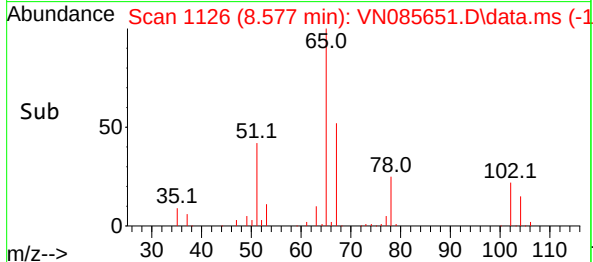
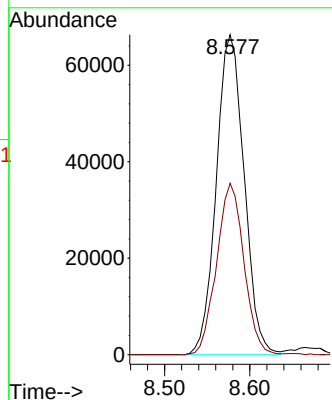
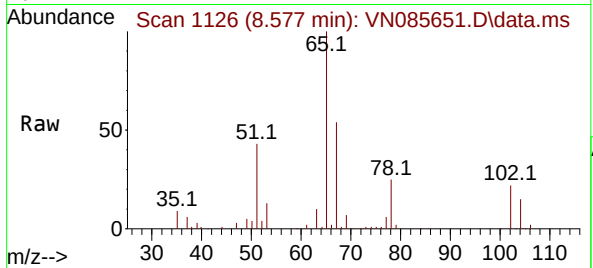




#33
1,2-Dichloroethane-d4
Concen: 45.172 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

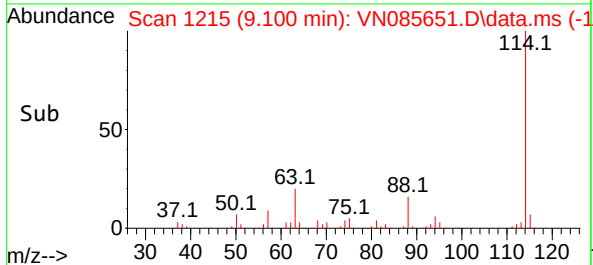
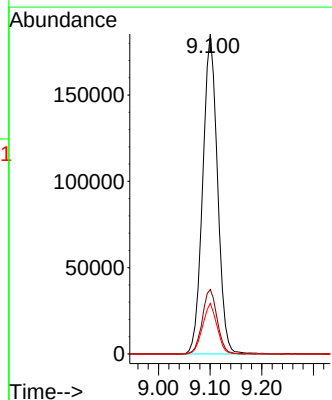
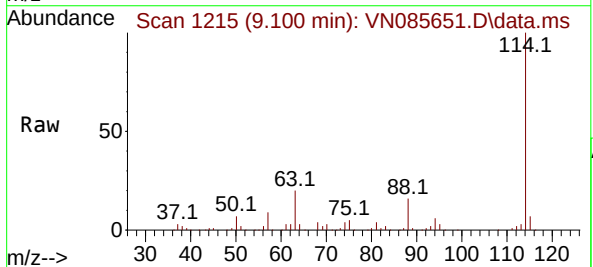
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

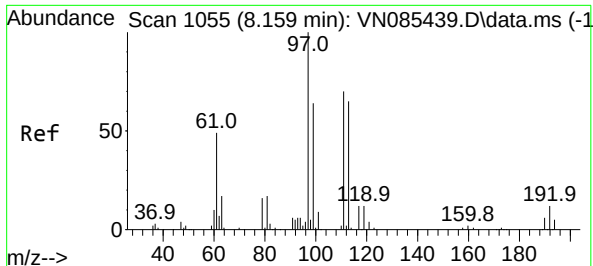
Tgt Ion: 65 Resp: 150502
Ion Ratio Lower Upper
65 100
67 52.5 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 114 Resp: 367320
Ion Ratio Lower Upper
114 100
63 20.2 0.0 47.6
88 15.8 0.0 32.6

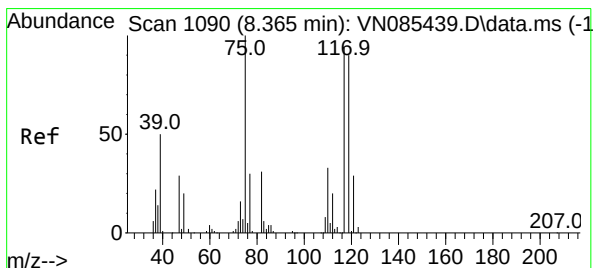
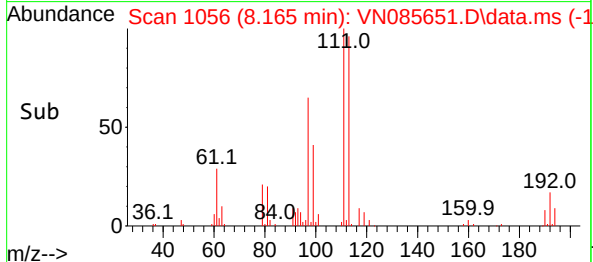
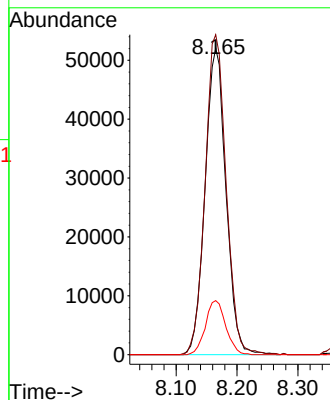
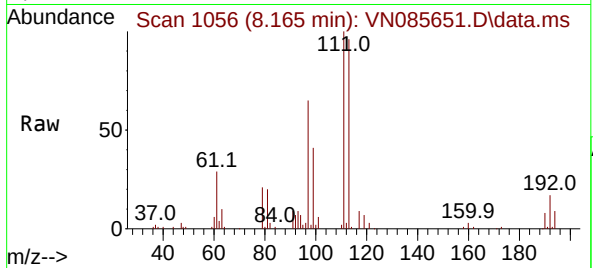




#35
Dibromofluoromethane
Concen: 48.743 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

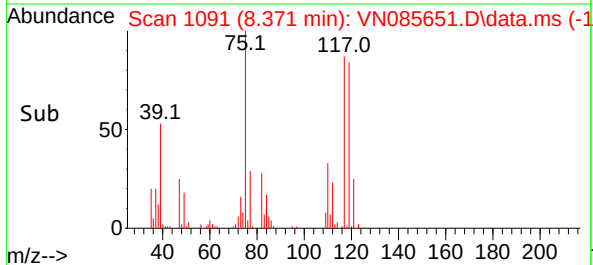
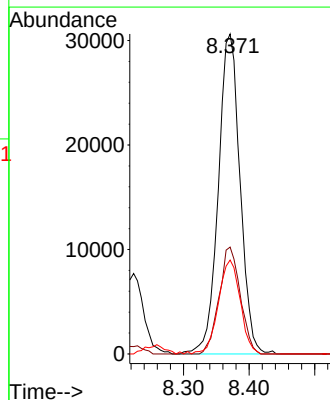
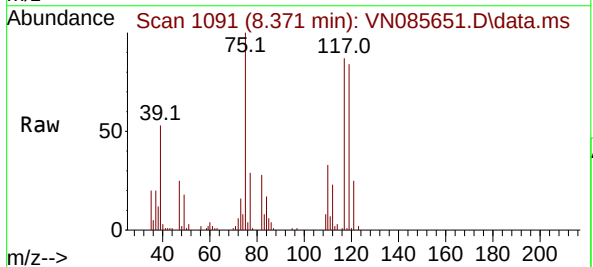
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

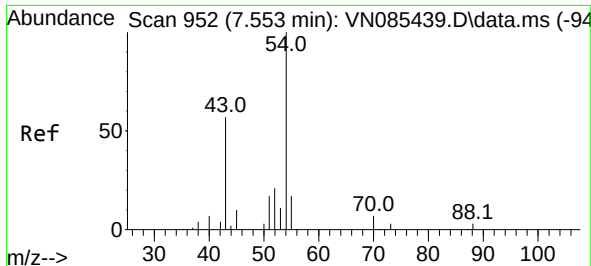
Tgt Ion:113 Resp: 124212
Ion Ratio Lower Upper
113 100
111 104.9 82.7 124.1
192 17.1 14.3 21.5



#36
1,1-Dichloropropene
Concen: 19.652 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 75 Resp: 70286
Ion Ratio Lower Upper
75 100
110 32.6 16.5 49.5
77 29.5 24.4 36.6





#37

Ethyl Acetate

Concen: 18.275 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

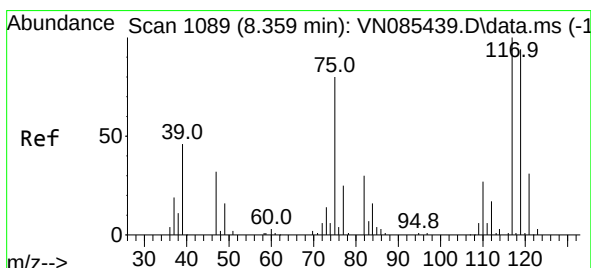
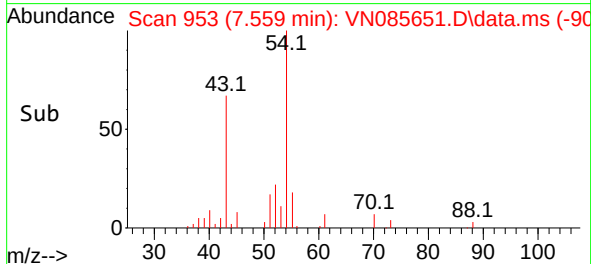
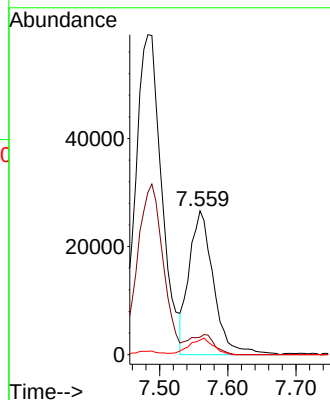
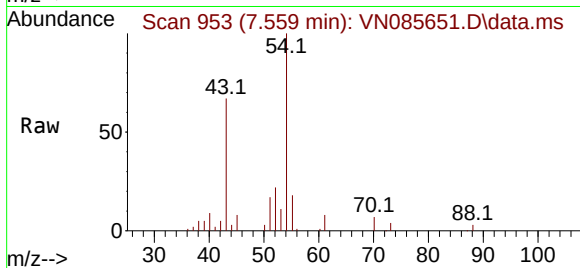
Tgt Ion: 43 Resp: 65973

Ion Ratio Lower Upper

43 100

61 13.7 10.9 16.3

70 11.3 7.5 11.3



#38

Carbon Tetrachloride

Concen: 19.076 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

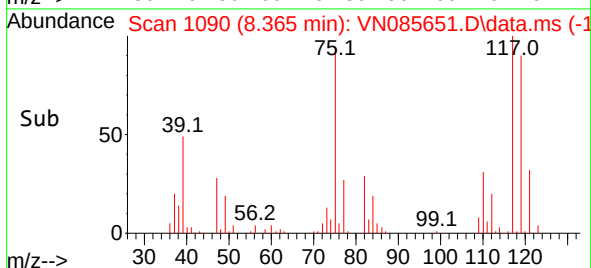
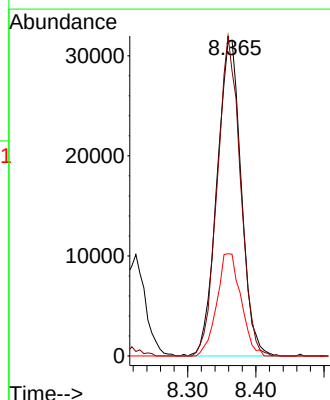
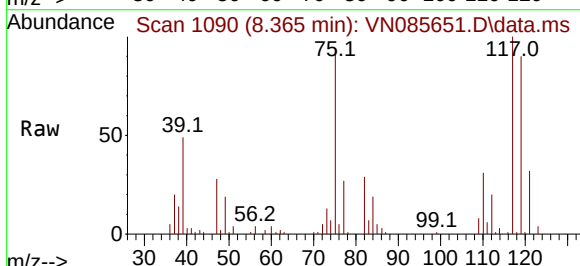
Tgt Ion: 117 Resp: 78107

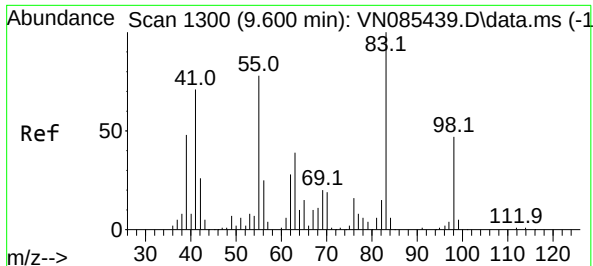
Ion Ratio Lower Upper

117 100

119 90.2 75.4 113.2

121 32.2 24.6 37.0





#39

Methylcyclohexane

Concen: 20.082 ug/l

RT: 9.600 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

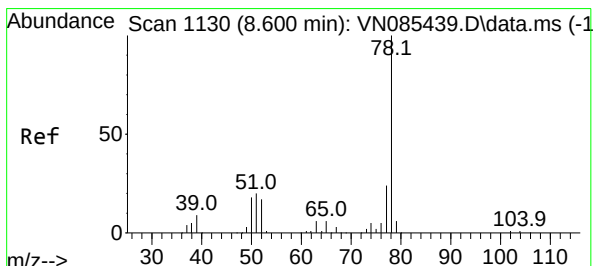
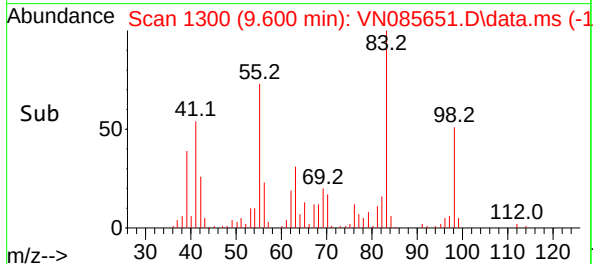
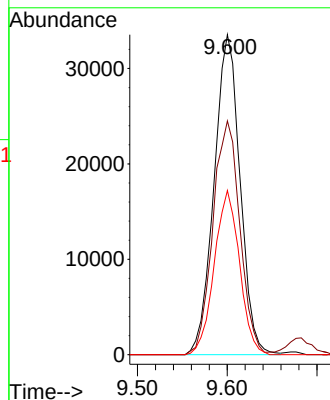
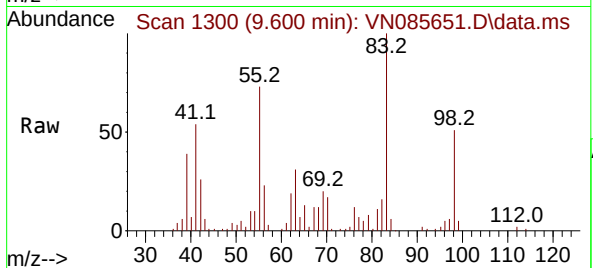
Tgt Ion: 83 Resp: 67494

Ion Ratio Lower Upper

83 100

55 73.1 62.6 94.0

98 51.3 37.7 56.5



#40

Benzene

Concen: 20.639 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085651.D

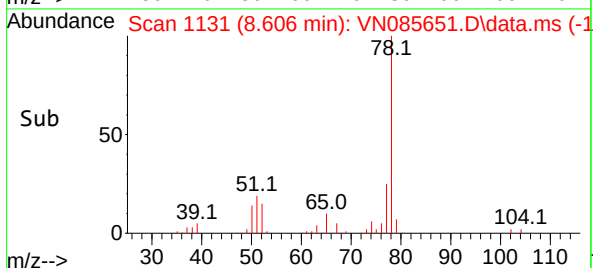
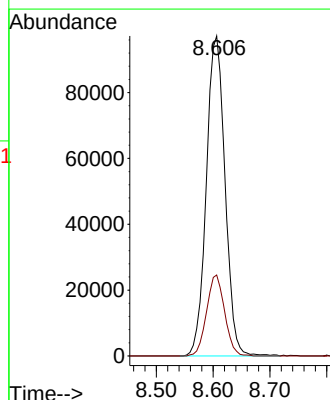
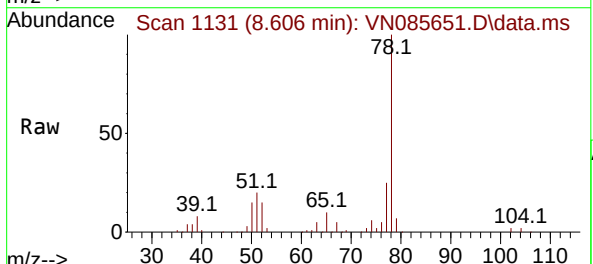
Acq: 04 Feb 2025 14:51

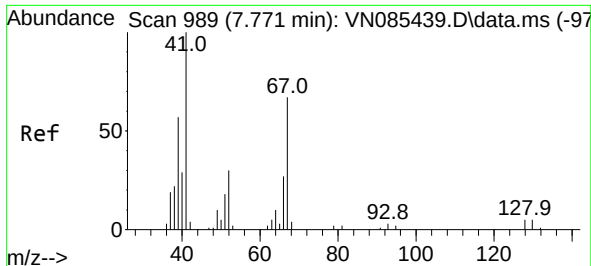
Tgt Ion: 78 Resp: 221792

Ion Ratio Lower Upper

78 100

77 25.3 19.0 28.6

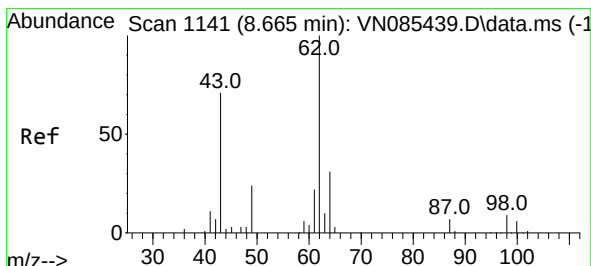
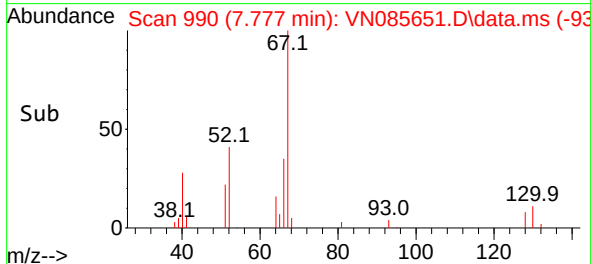
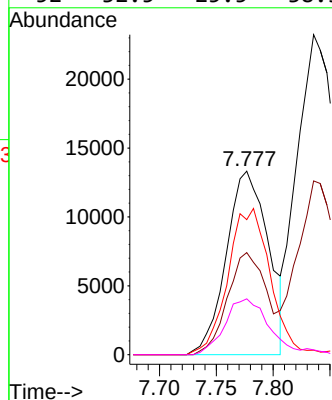
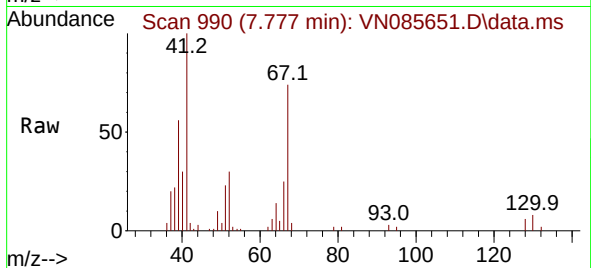




#41
Methacrylonitrile
Concen: 18.274 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

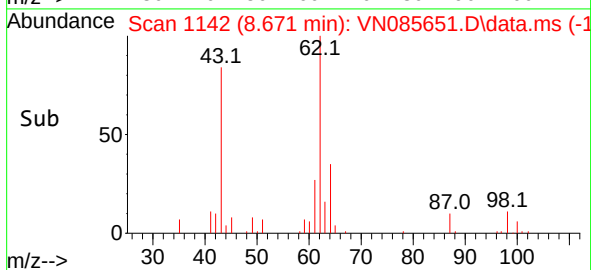
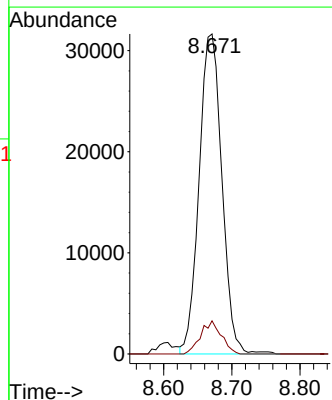
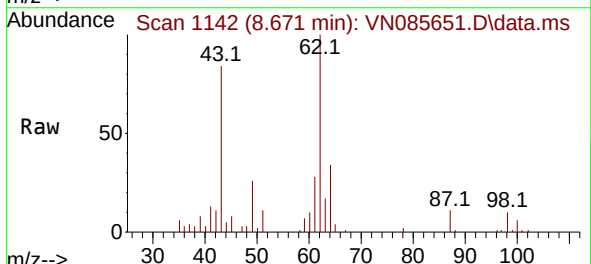
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

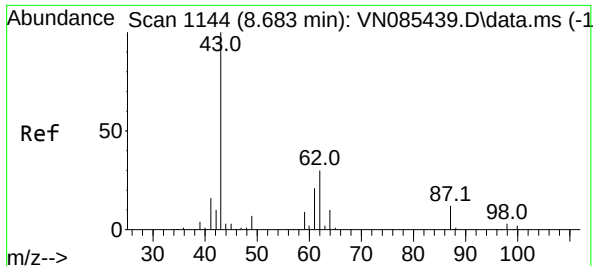
Tgt Ion:	41	Resp:	34320
Ion	Ratio	Lower	Upper
41	100		
39	50.0	46.0	69.0
67	80.2	57.4	86.2
52	32.5	25.5	38.3



#42
1,2-Dichloroethane
Concen: 18.179 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:	62	Resp:	73577
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	17.0

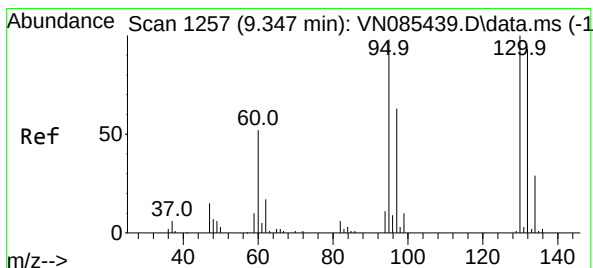
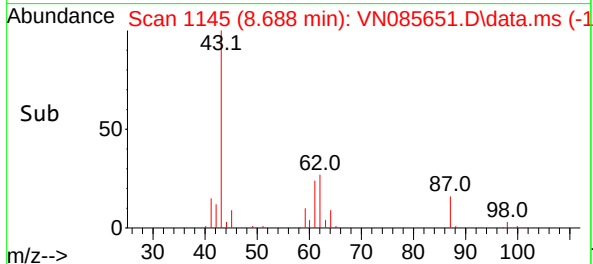
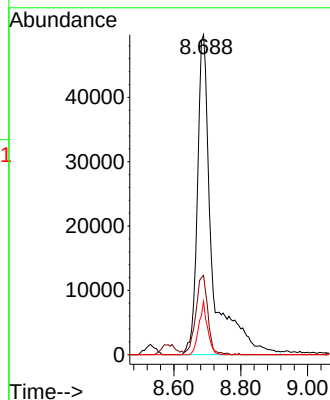
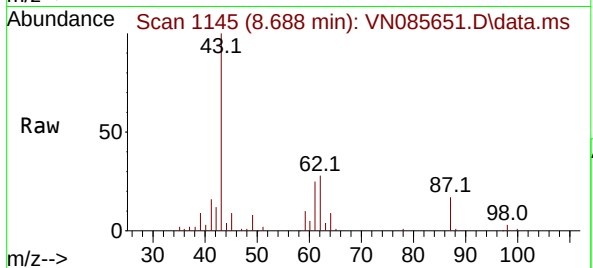




#43
Isopropyl Acetate
Concen: 26.315 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

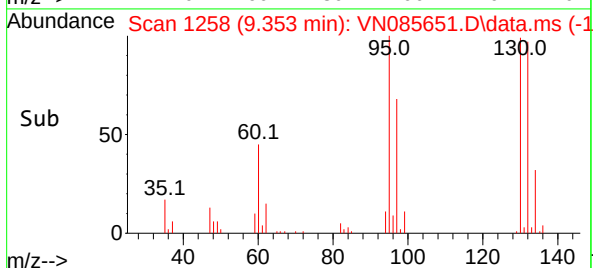
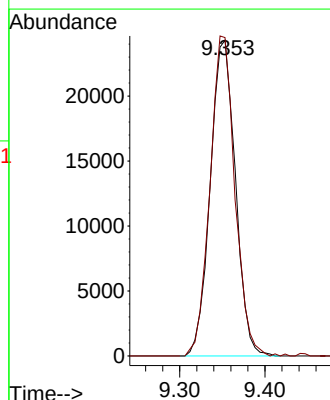
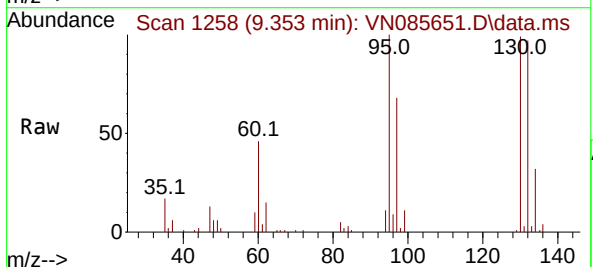
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

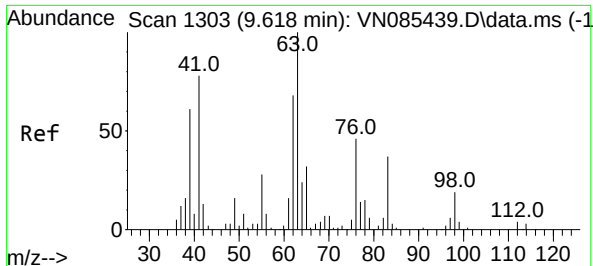
Tgt Ion: 43 Resp: 152214
Ion Ratio Lower Upper
43 100
61 20.3 20.7 31.1#
87 9.7 9.8 14.8#



#44
Trichloroethene
Concen: 19.842 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:130 Resp: 49633
Ion Ratio Lower Upper
130 100
95 100.9 0.0 195.8





#45

1,2-Dichloropropane

Concen: 19.672 ug/l

RT: 9.618 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

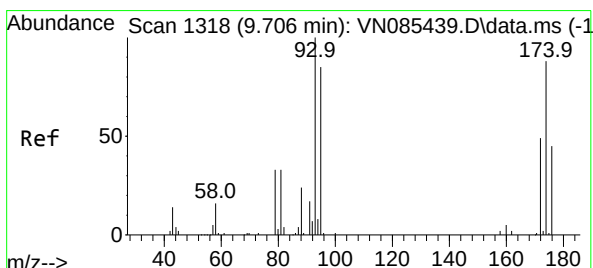
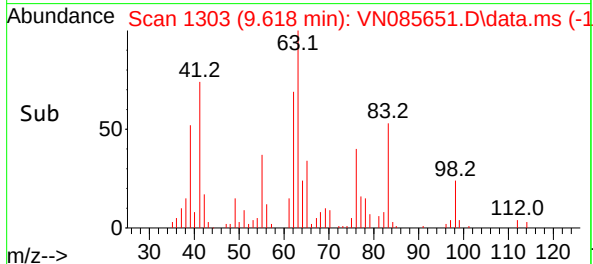
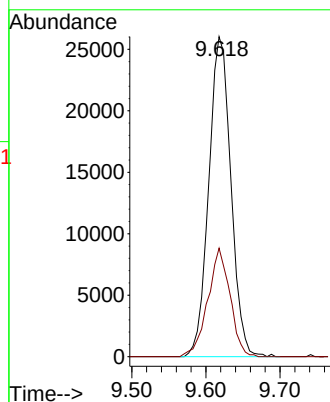
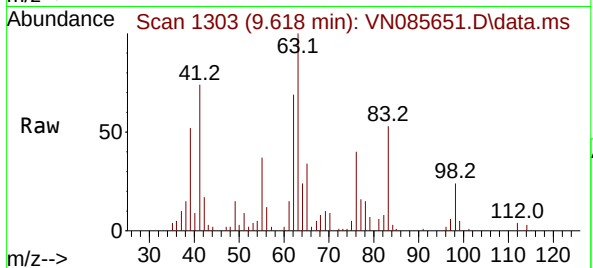
VN0204WBS02

Tgt Ion: 63 Resp: 53997

Ion Ratio Lower Upper

63 100

65 33.9 25.6 38.4



#46

Dibromomethane

Concen: 19.747 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

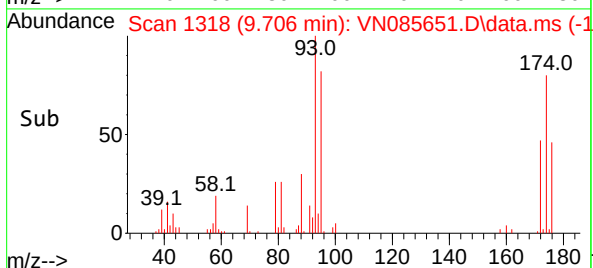
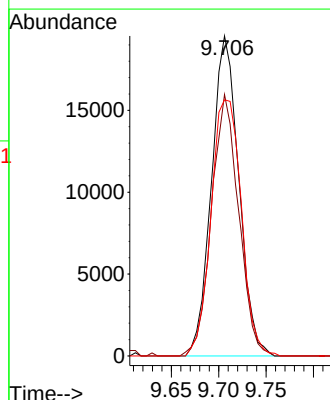
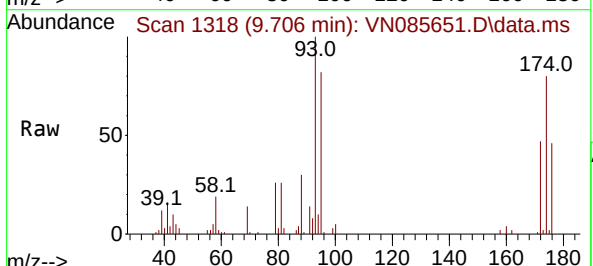
Tgt Ion: 93 Resp: 39110

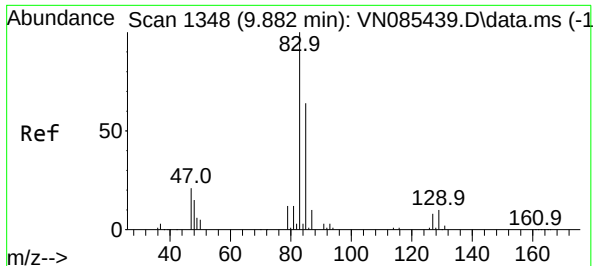
Ion Ratio Lower Upper

93 100

95 81.4 64.7 97.1

174 89.0 69.0 103.4





#47

Bromodichloromethane

Concen: 19.263 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

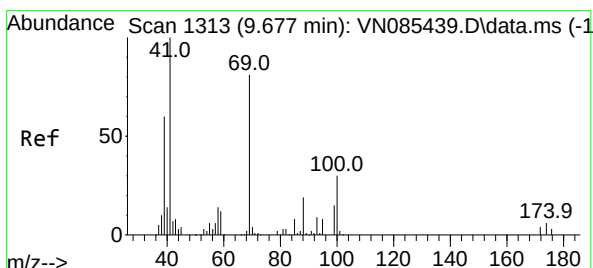
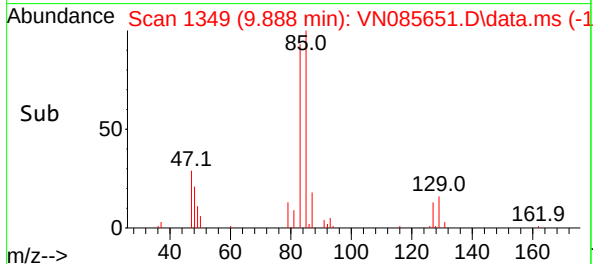
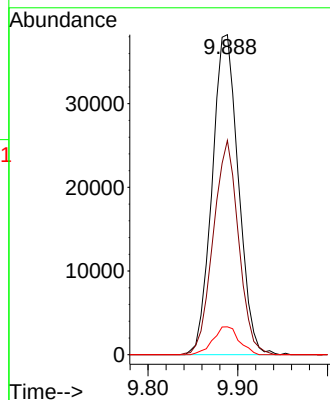
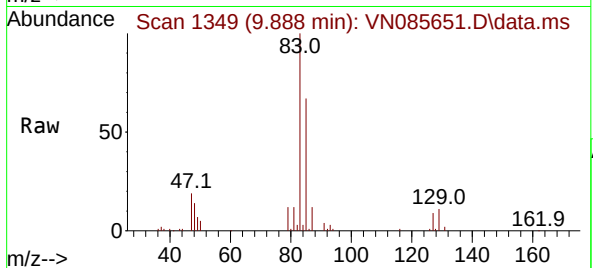
Tgt Ion: 83 Resp: 77727

Ion Ratio Lower Upper

83 100

85 67.0 51.2 76.8

127 8.7 6.5 9.7



#48

Methyl methacrylate

Concen: 18.096 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

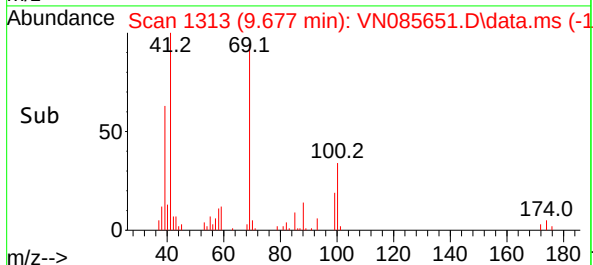
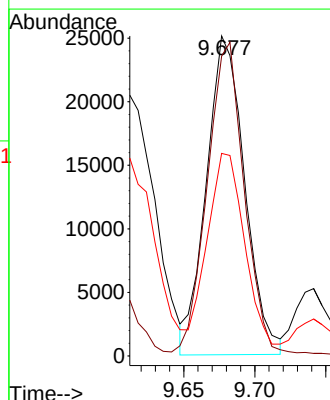
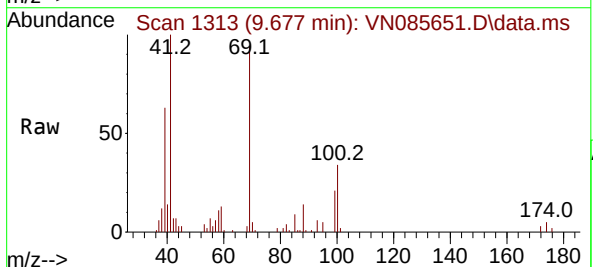
Tgt Ion: 41 Resp: 47105

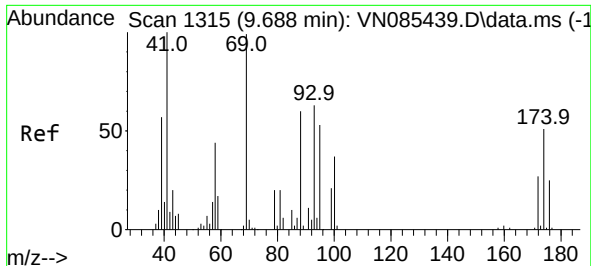
Ion Ratio Lower Upper

41 100

69 96.3 64.7 97.1

39 63.8 49.0 73.6

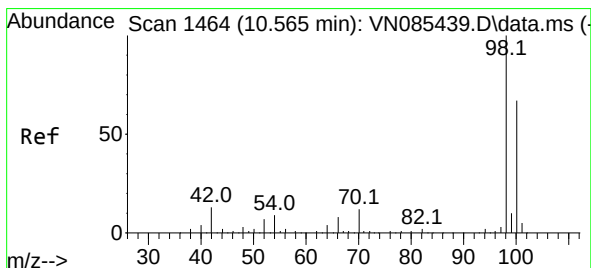
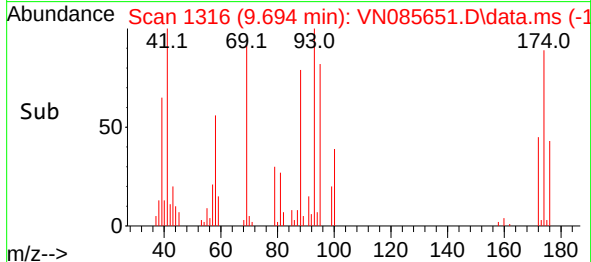
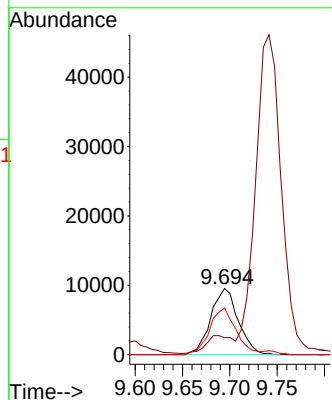
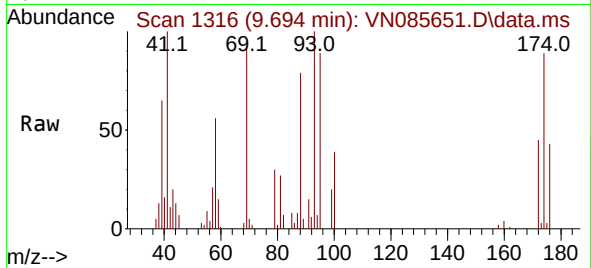




#49
1,4-Dioxane
Concen: 439.639 ug/l
RT: 9.694 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

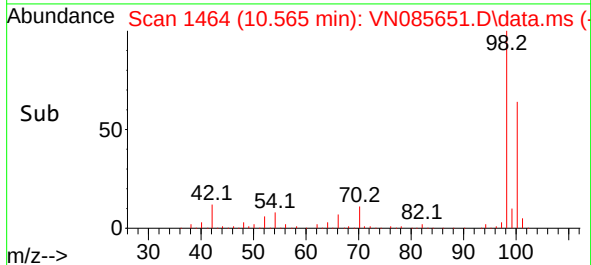
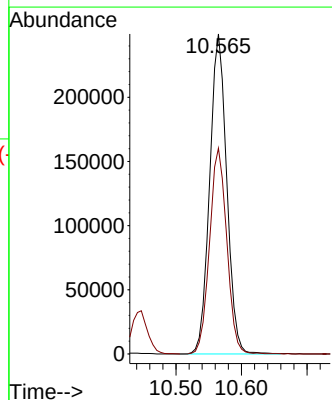
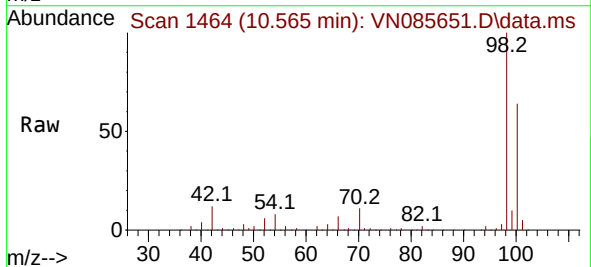
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

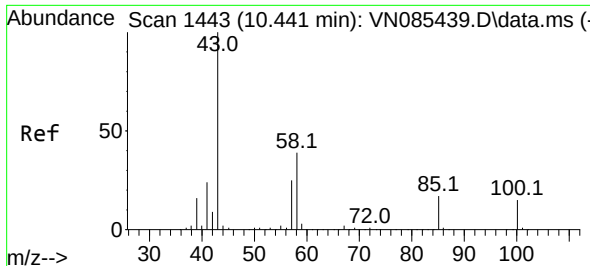
Tgt Ion: 88 Resp: 19272
Ion Ratio Lower Upper
88 100
43 27.7 26.6 39.8
58 70.7 59.5 89.3



#50
Toluene-d8
Concen: 49.771 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 98 Resp: 450633
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.4

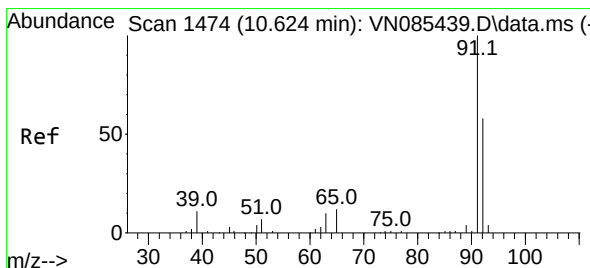
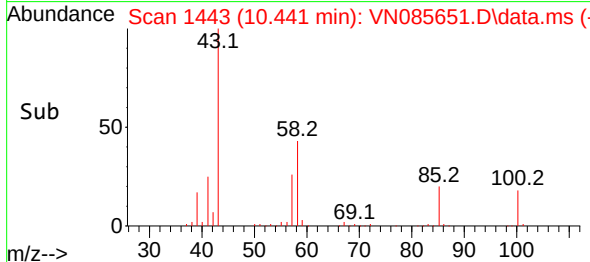
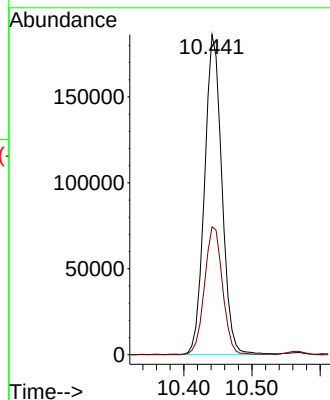
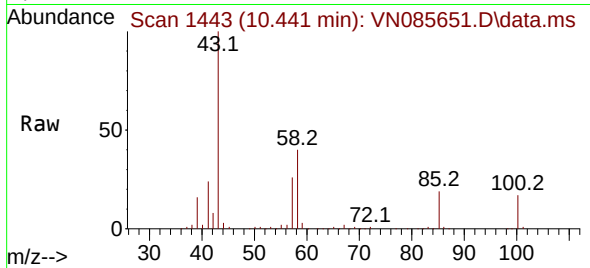




#51
4-Methyl-2-Pentanone
Concen: 97.965 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

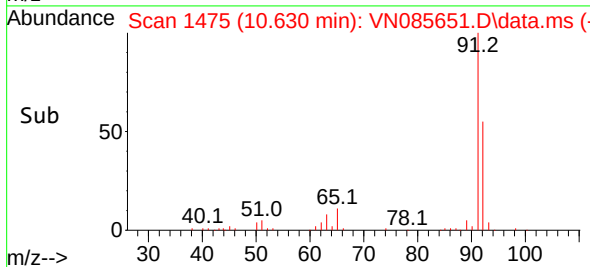
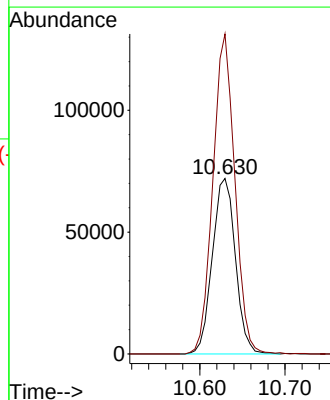
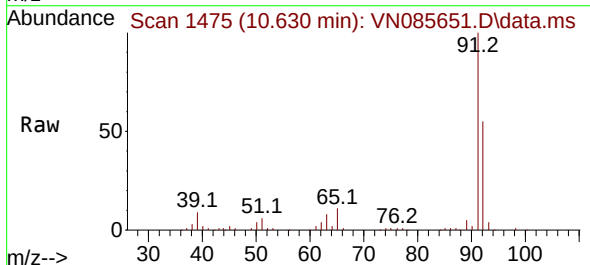
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

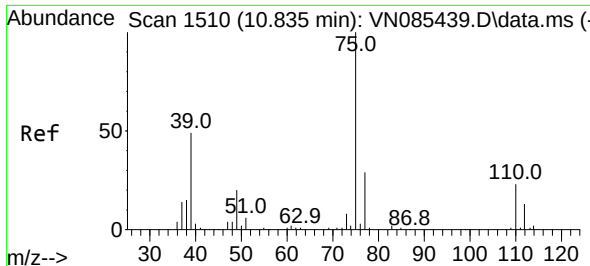
Tgt Ion: 43 Resp: 328830
Ion Ratio Lower Upper
43 100
58 41.7 30.5 45.7



#52
Toluene
Concen: 21.741 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 92 Resp: 135369
Ion Ratio Lower Upper
92 100
91 173.5 139.2 208.8

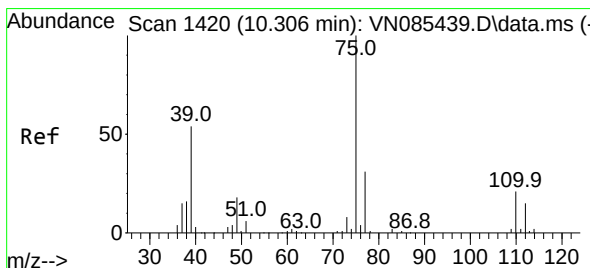
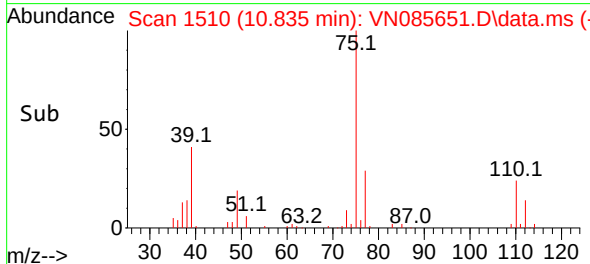
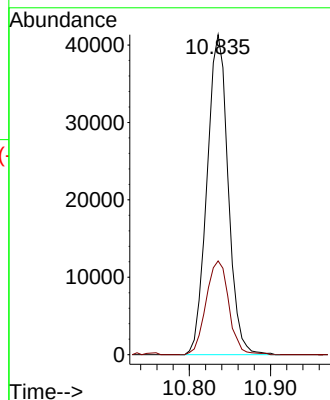
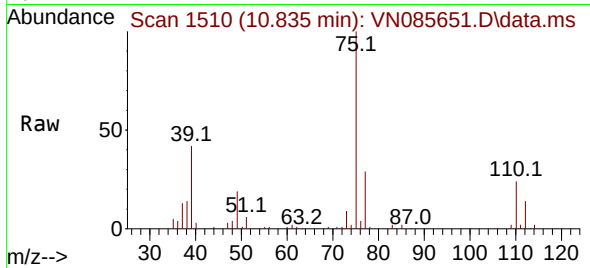




#53
 t-1,3-Dichloropropene
 Concen: 19.583 ug/l
 RT: 10.835 min Scan# 1510
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

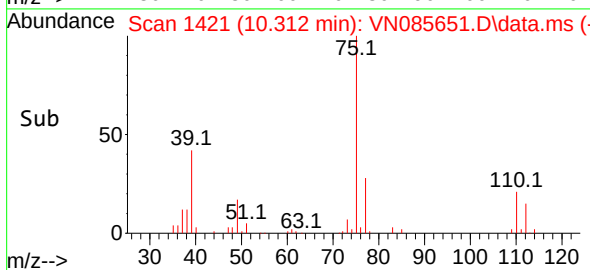
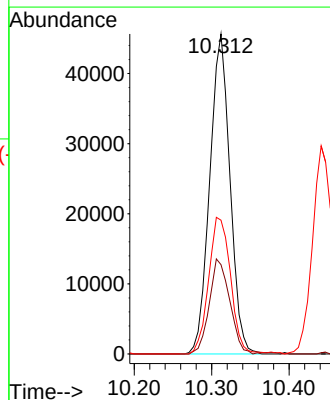
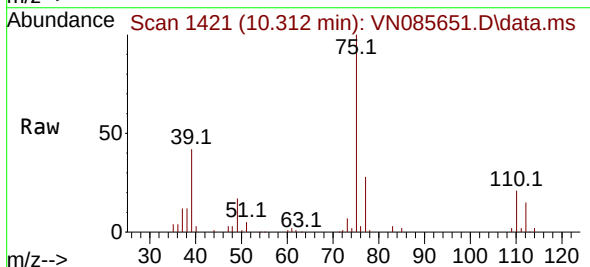
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

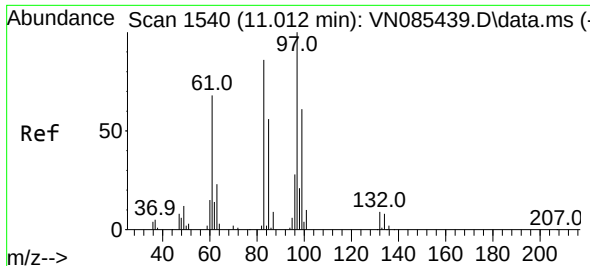
Tgt Ion: 75 Resp: 74675
 Ion Ratio Lower Upper
 75 100
 77 29.3 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 20.385 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. 0.006 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion: 75 Resp: 83030
 Ion Ratio Lower Upper
 75 100
 77 27.9 25.0 37.4
 39 41.8 43.1 64.7#

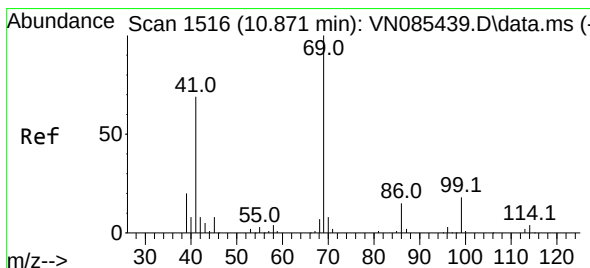
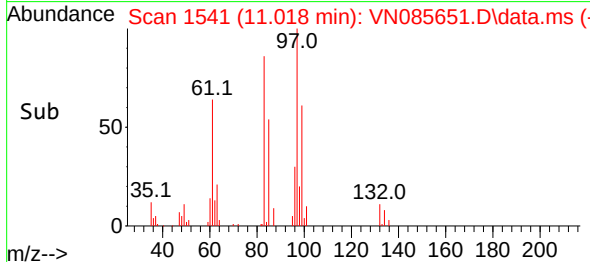
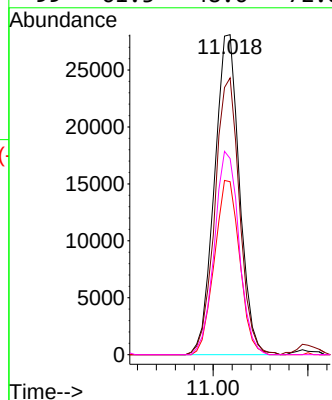
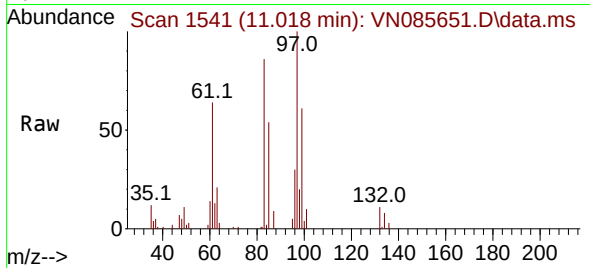




#55
1,1,2-Trichloroethane
Concen: 20.914 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

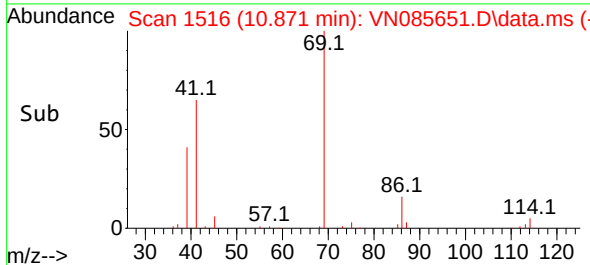
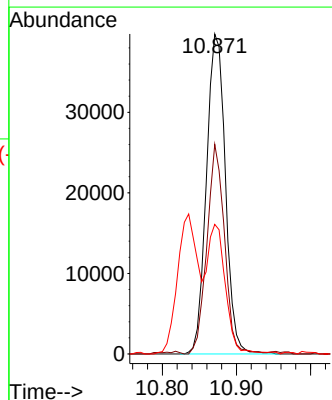
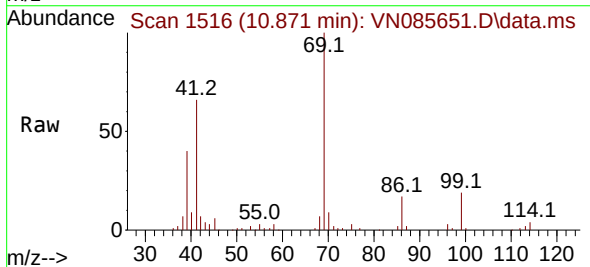
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

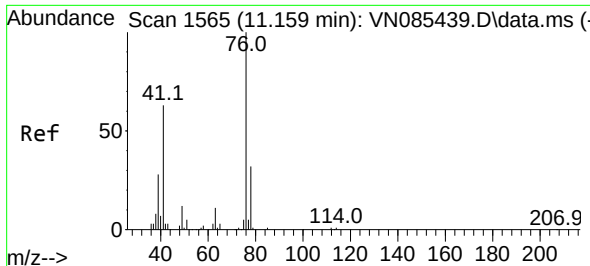
Tgt Ion: 97	Resp: 51534
Ion Ratio	Lower Upper
97 100	
83 86.5	69.0 103.6
85 54.0	44.6 66.8
99 61.3	48.6 72.8



#56
Ethyl methacrylate
Concen: 18.280 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 69	Resp: 70589
Ion Ratio	Lower Upper
69 100	
41 60.9	54.6 82.0
39 39.6	32.4 48.6





#57

1,3-Dichloropropane

Concen: 20.170 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

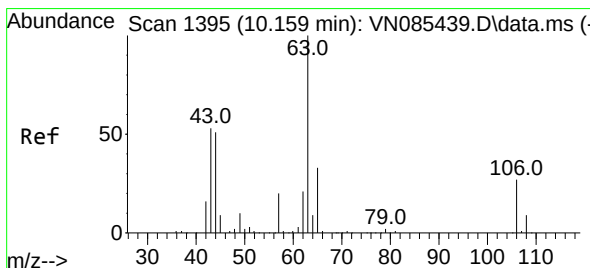
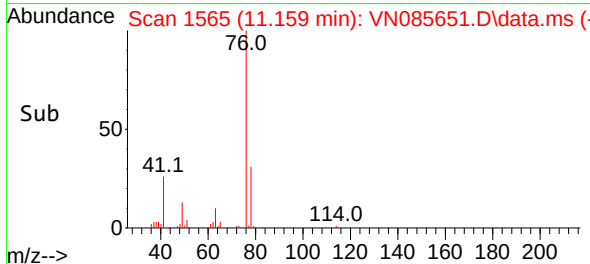
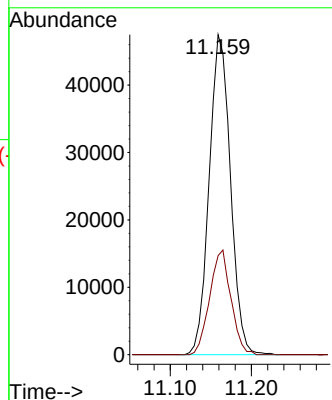
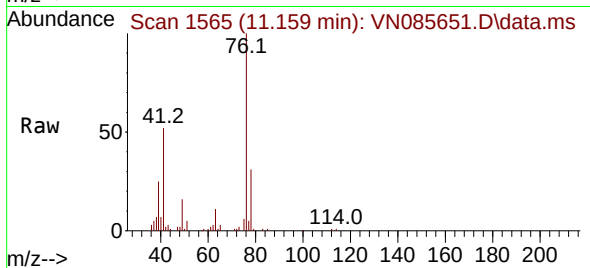
VN0204WBS02

Tgt Ion: 76 Resp: 86420

Ion Ratio Lower Upper

76 100

78 32.6 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 67.812 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN085651.D

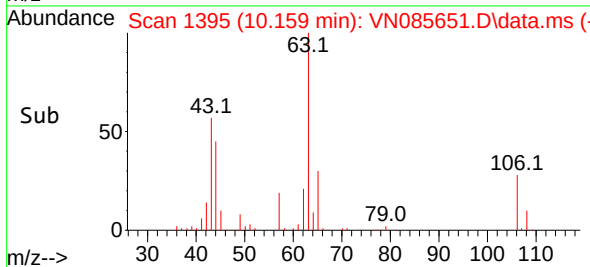
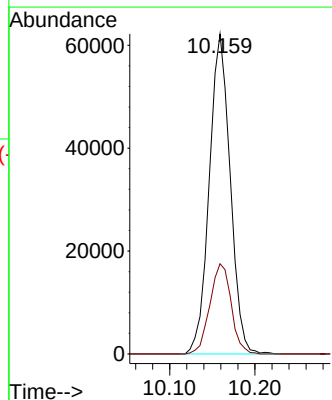
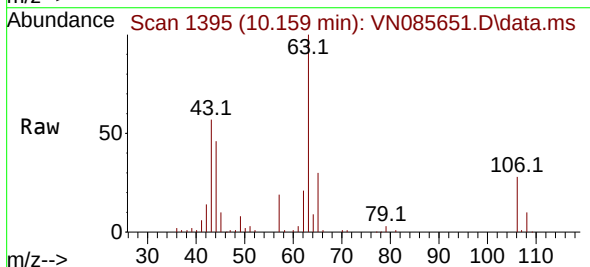
Acq: 04 Feb 2025 14:51

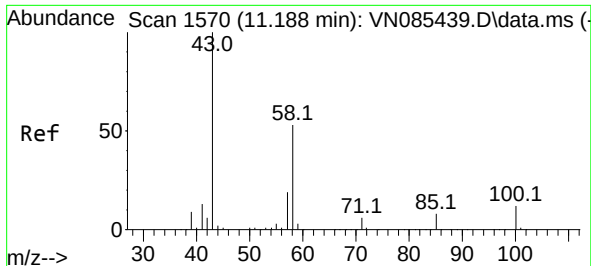
Tgt Ion: 63 Resp: 106039

Ion Ratio Lower Upper

63 100

106 28.7 21.6 32.4

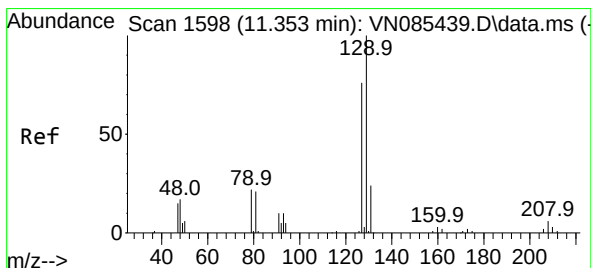
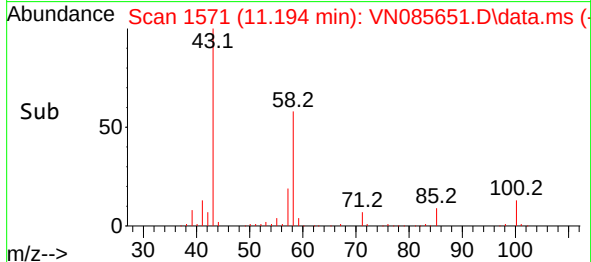
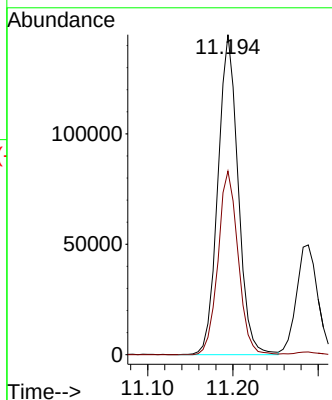
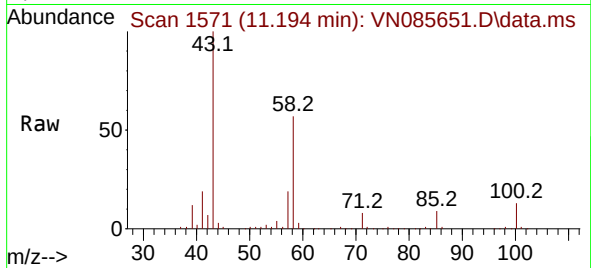




#59
2-Hexanone
Concen: 101.031 ug/l
RT: 11.194 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

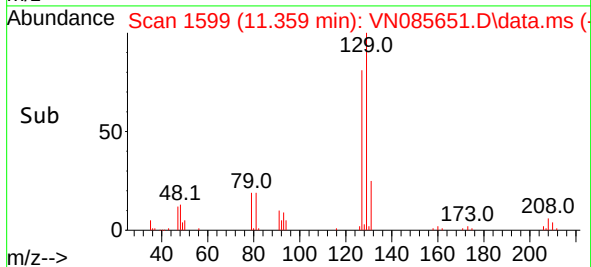
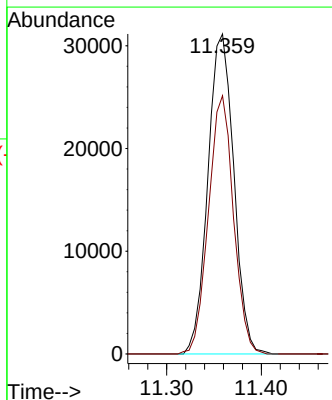
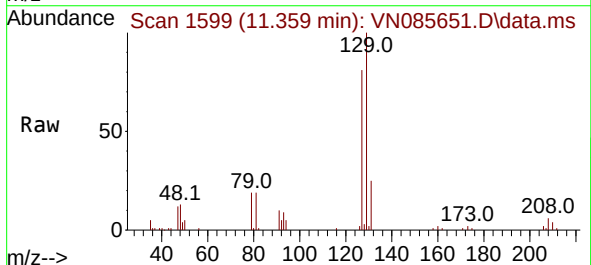
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

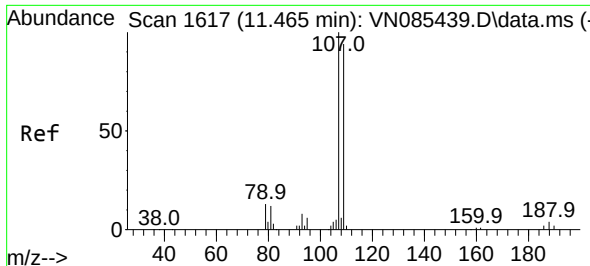
Tgt Ion: 43 Resp: 238617
Ion Ratio Lower Upper
43 100
58 57.1 26.2 78.6



#60
Dibromochloromethane
Concen: 19.918 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 129 Resp: 59256
Ion Ratio Lower Upper
129 100
127 77.8 38.6 115.8

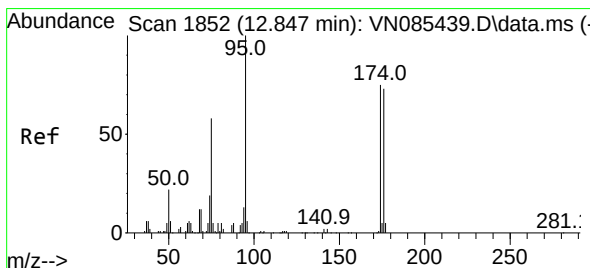
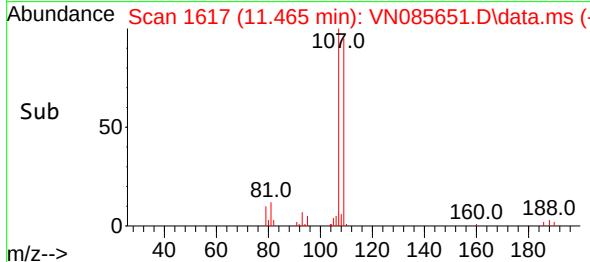
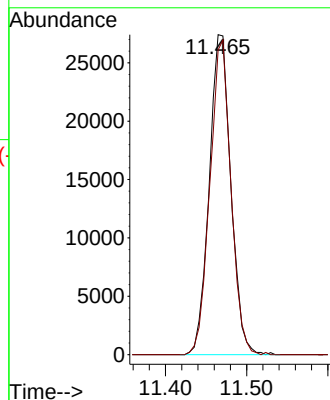
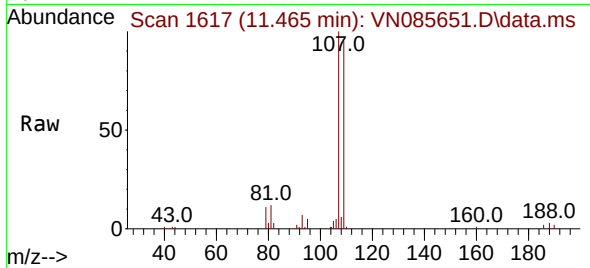




#61
1,2-Dibromoethane
Concen: 20.701 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

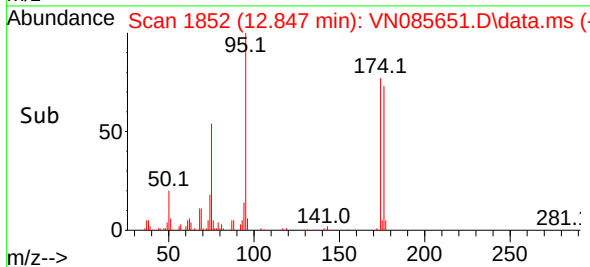
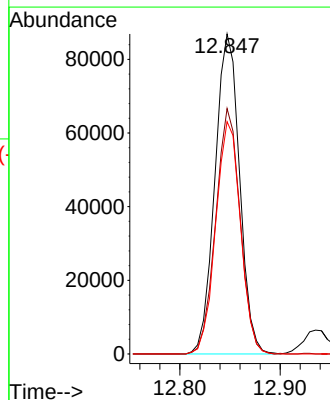
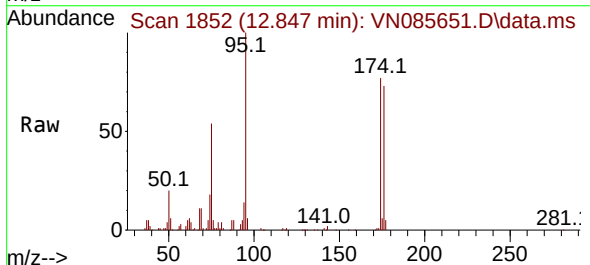
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

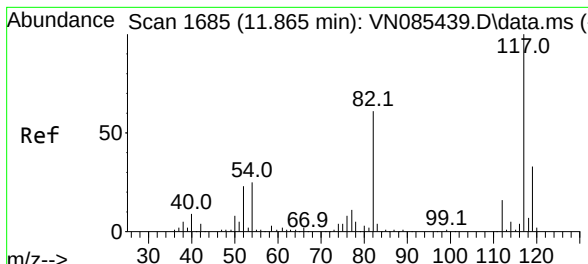
Tgt Ion:107 Resp: 50776
Ion Ratio Lower Upper
107 100
109 95.4 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 47.844 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 95 Resp: 148181
Ion Ratio Lower Upper
95 100
174 76.0 0.0 145.0
176 72.9 0.0 142.4

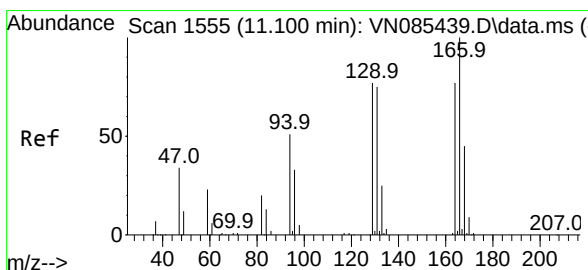
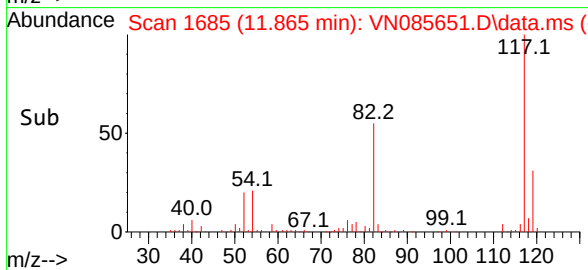
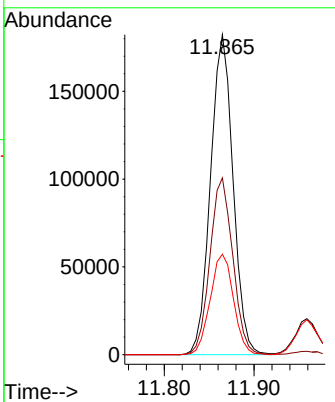
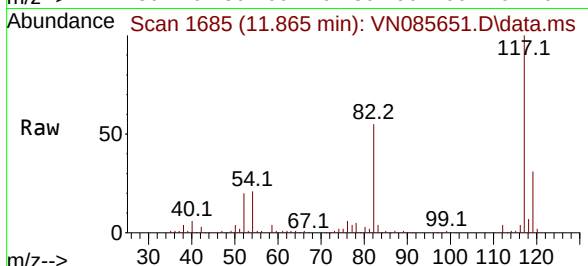




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

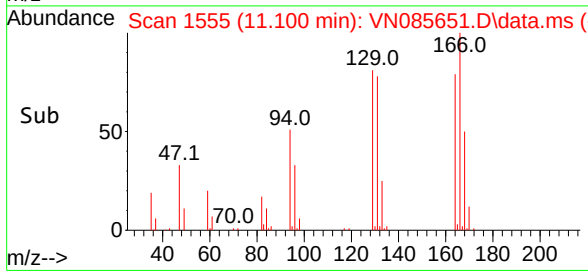
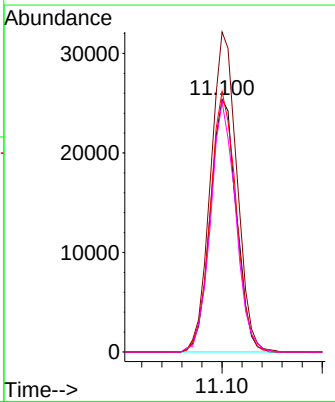
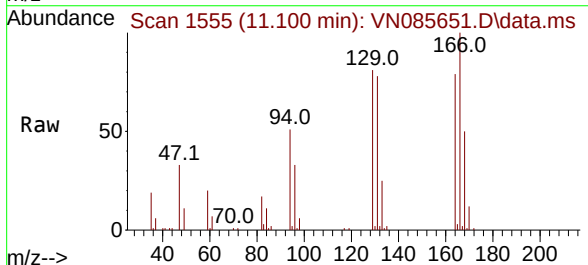
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

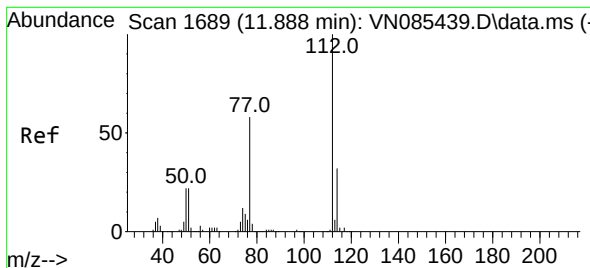
Tgt Ion:	117	Resp:	317764
Ion Ratio	Lower	Upper	
117	100		
82	55.3	48.6	72.8
119	31.4	26.6	39.8



#64
Tetrachloroethene
Concen: 21.187 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:	164	Resp:	45898
Ion Ratio	Lower	Upper	
164	100		
166	126.8	103.4	155.2
129	103.2	79.2	118.8
131	99.1	77.1	115.7

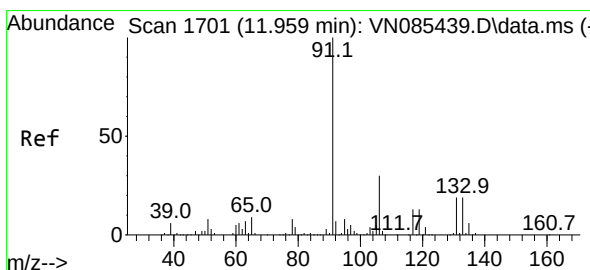
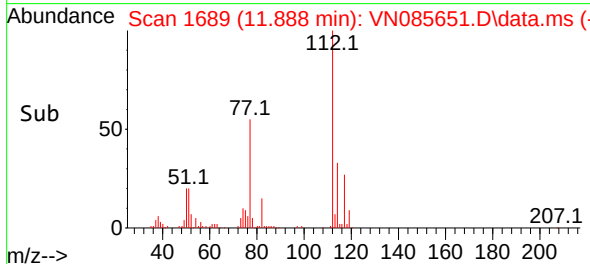
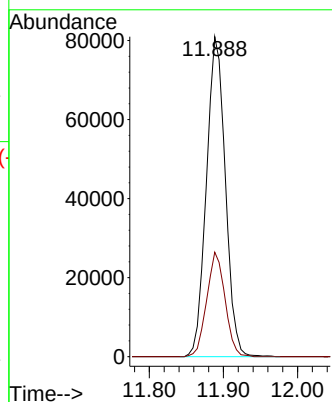
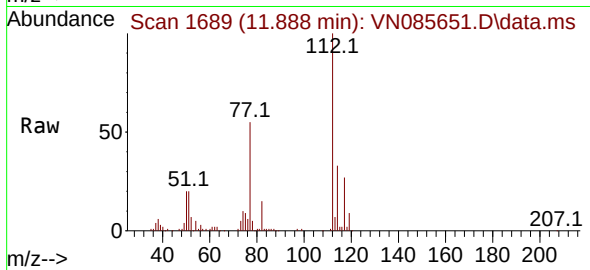




#65
Chlorobenzene
Concen: 20.663 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

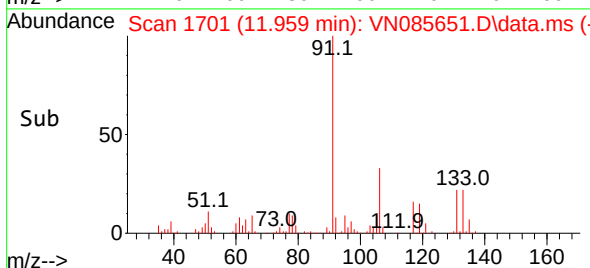
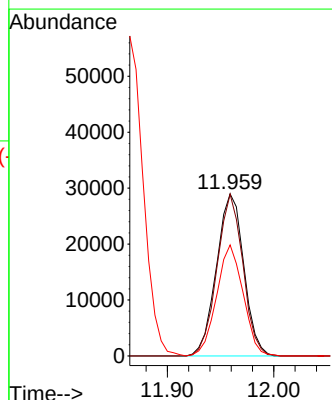
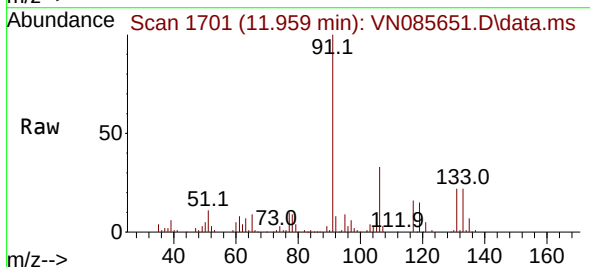
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

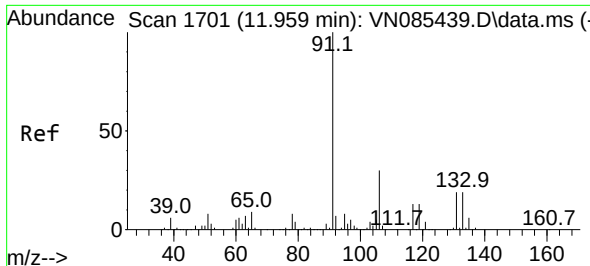
Tgt Ion:112 Resp: 143836
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 20.242 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:131 Resp: 51716
Ion Ratio Lower Upper
131 100
133 94.2 47.4 142.3
119 66.3 33.1 99.5





#67

Ethyl Benzene

Concen: 20.561 ug/l

RT: 11.965 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

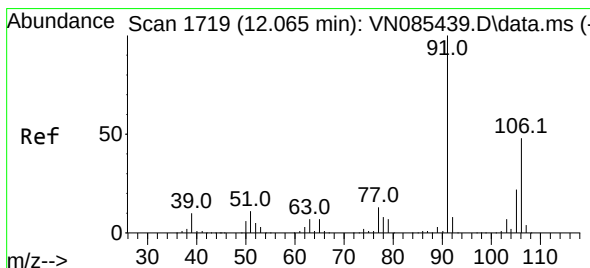
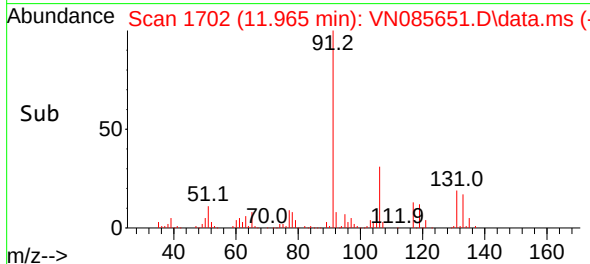
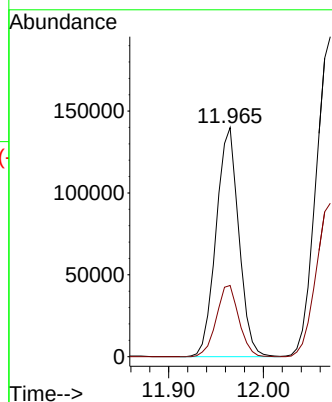
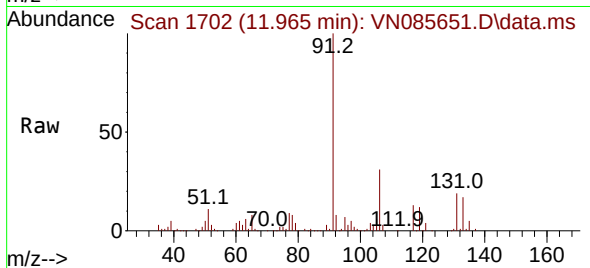
VN0204WBS02

Tgt Ion: 91 Resp: 233116

Ion Ratio Lower Upper

91 100

106 31.1 23.8 35.8



#68

m/p-Xylenes

Concen: 43.412 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085651.D

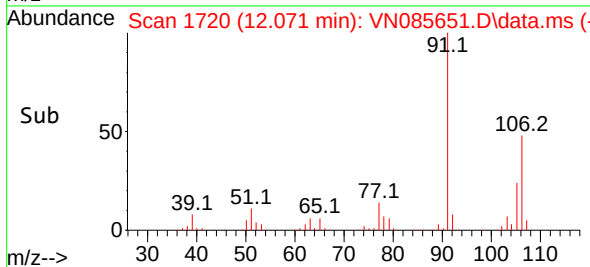
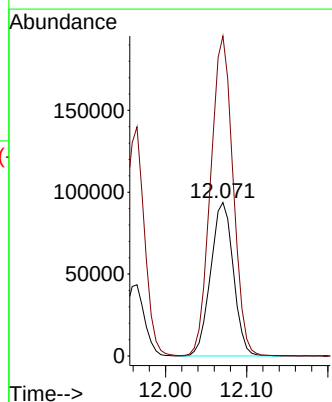
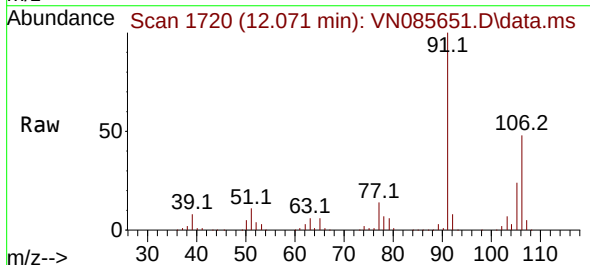
Acq: 04 Feb 2025 14:51

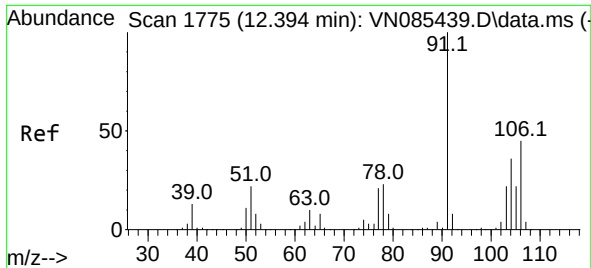
Tgt Ion: 106 Resp: 181911

Ion Ratio Lower Upper

106 100

91 206.7 167.7 251.5

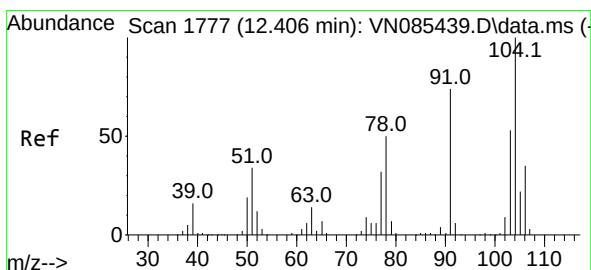
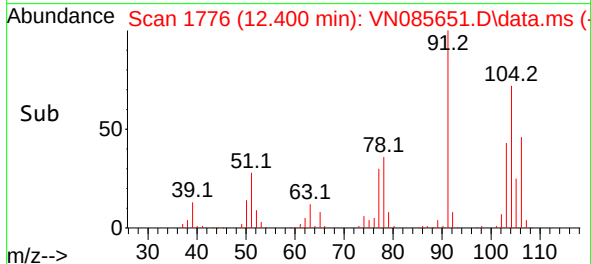
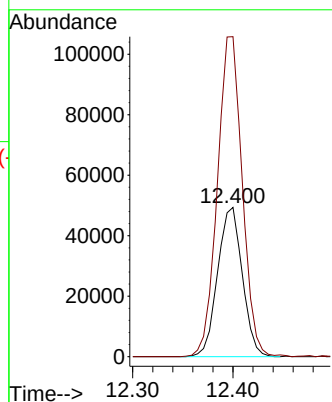
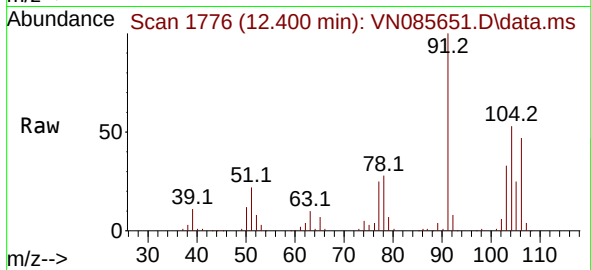




#69
o-Xylene
Concen: 21.067 ug/l
RT: 12.400 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

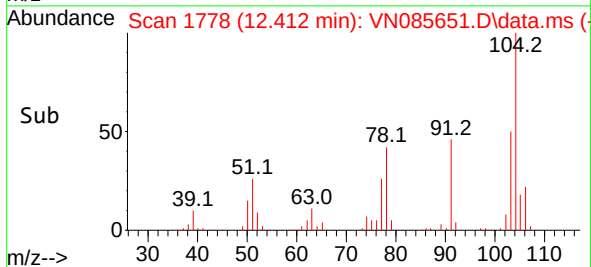
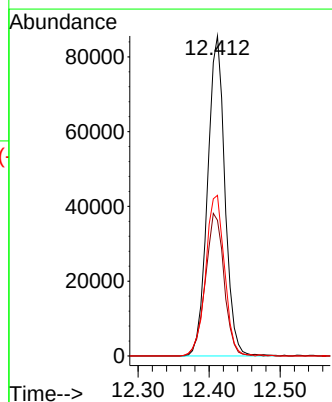
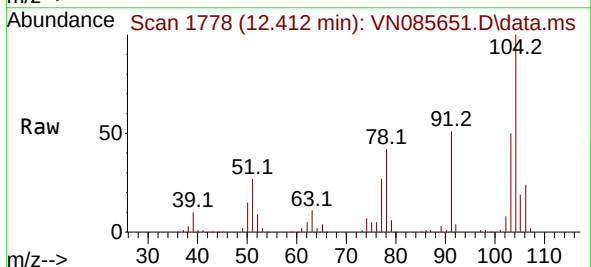
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

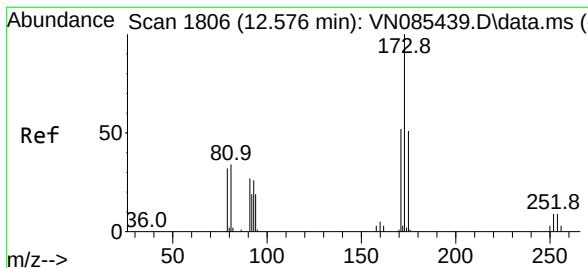
Tgt Ion:106 Resp: 84365
Ion Ratio Lower Upper
106 100
91 216.2 110.4 331.2



#70
Styrene
Concen: 21.885 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:104 Resp: 145039
Ion Ratio Lower Upper
104 100
78 48.2 42.5 63.7
103 54.7 43.8 65.8

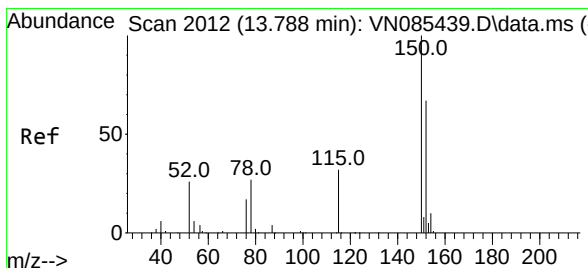
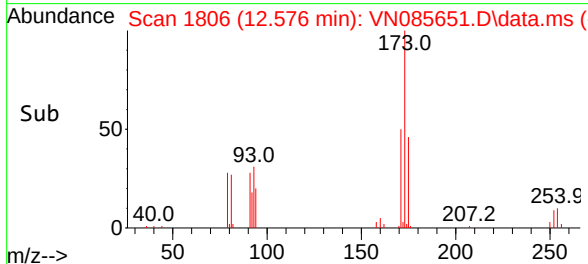
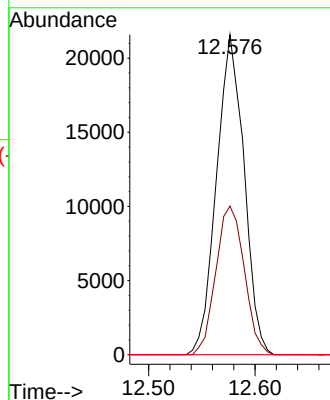
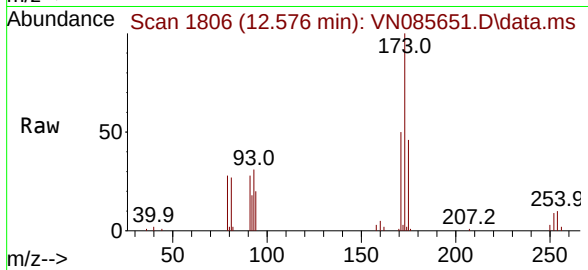




#71
Bromoform
Concen: 21.179 ug/l
RT: 12.576 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

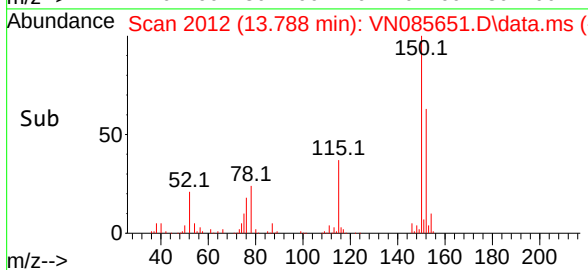
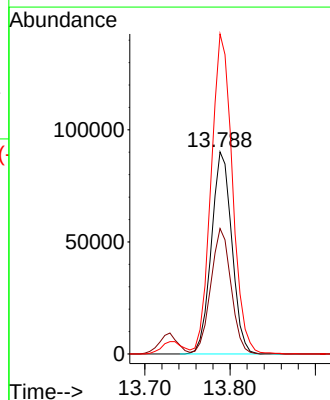
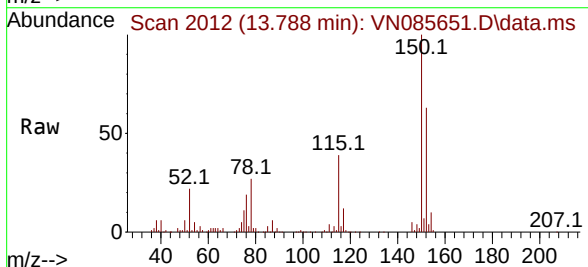
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

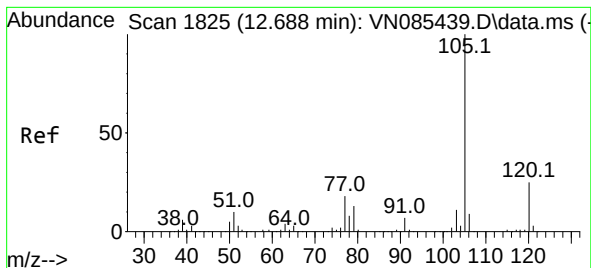
Tgt Ion:173 Resp: 38717
Ion Ratio Lower Upper
173 100
175 48.0 24.4 73.2
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:152 Resp: 150317
Ion Ratio Lower Upper
152 100
115 61.4 31.1 93.3
150 164.9 0.0 343.6





#73

Isopropylbenzene

Concen: 20.793 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

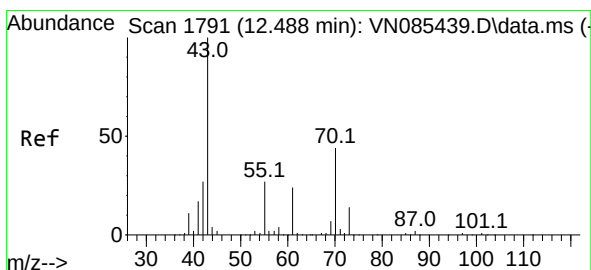
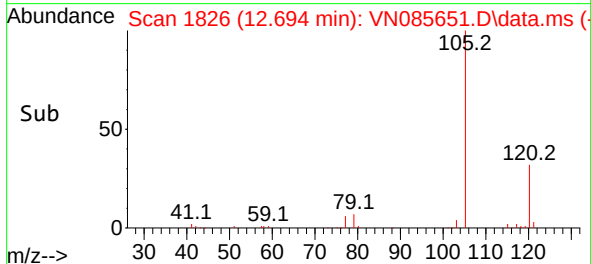
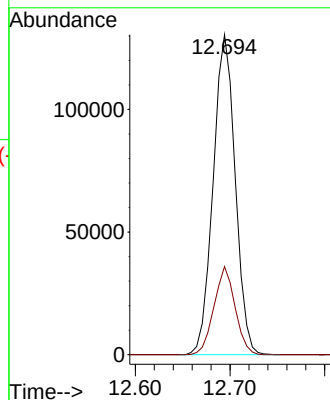
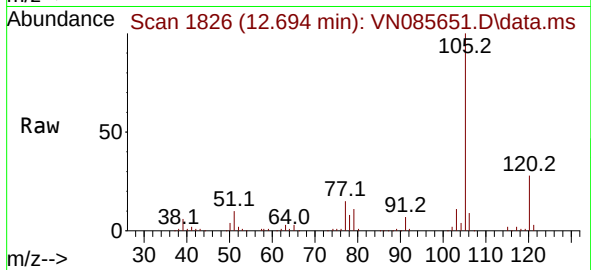
VN0204WBS02

Tgt Ion:105 Resp: 210944

Ion Ratio Lower Upper

105 100

120 26.3 12.8 38.3



#74

N-ethyl acetate

Concen: 18.598 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Tgt Ion: 43 Resp: 84808

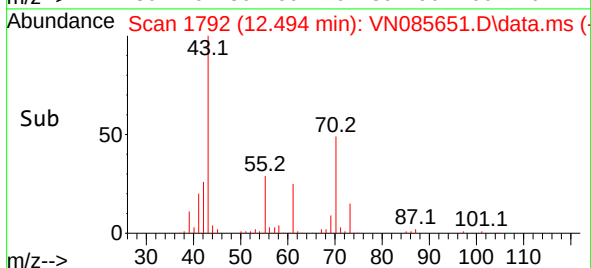
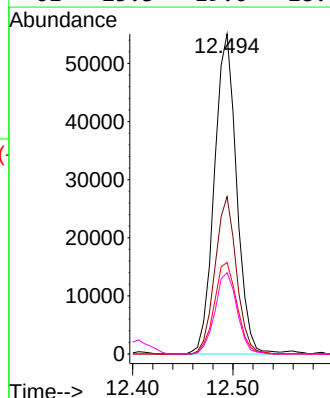
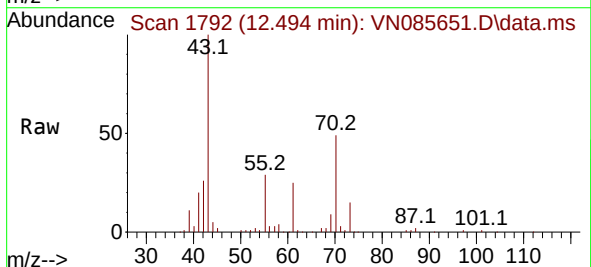
Ion Ratio Lower Upper

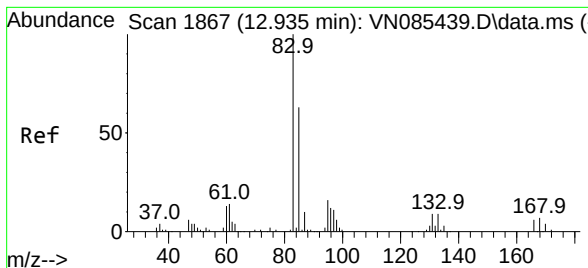
43 100

70 47.3 34.0 51.0

55 29.2 21.4 32.2

61 25.3 19.0 28.4

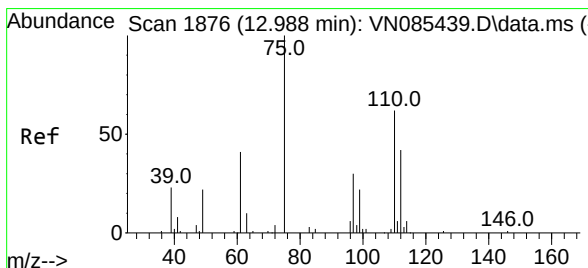
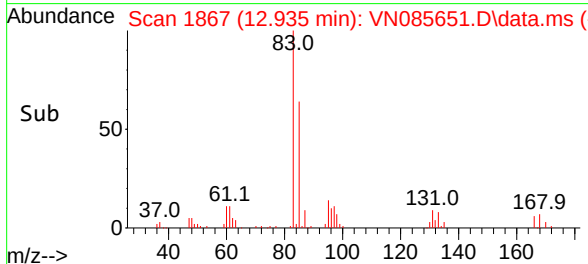
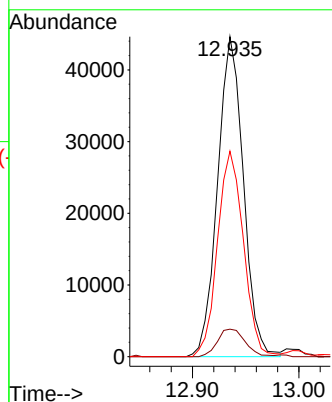
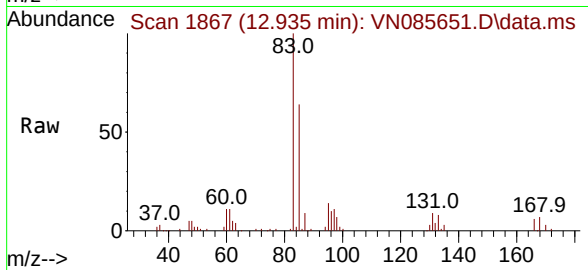




#75
1,1,2,2-Tetrachloroethane
Concen: 20.962 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

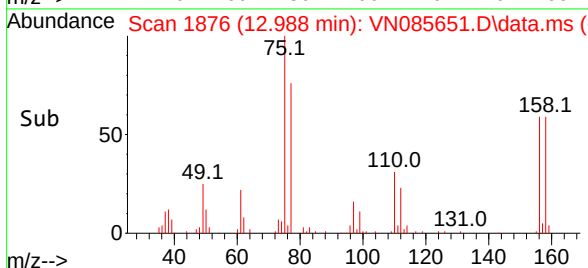
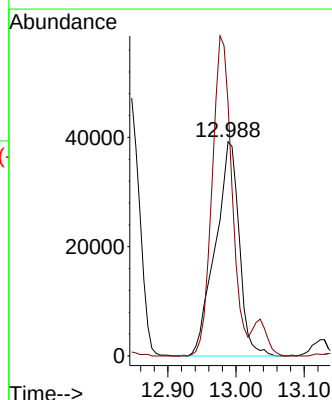
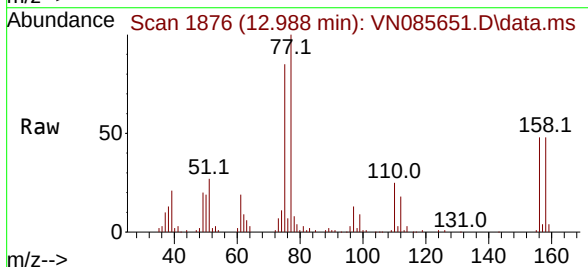
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

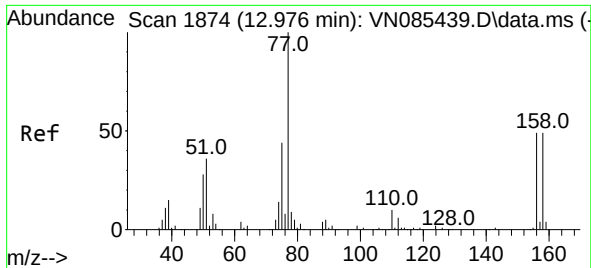
Tgt Ion: 83 Resp: 75120
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.4
85 64.6 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 31.230 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 75 Resp: 95415
Ion Ratio Lower Upper
75 100
77 123.5 109.7 329.2

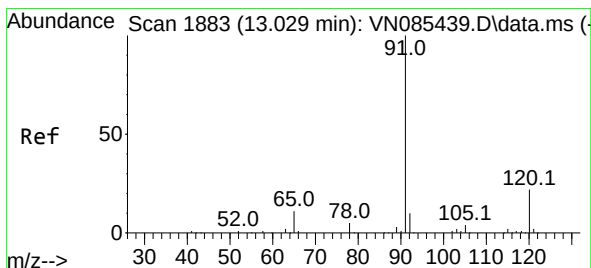
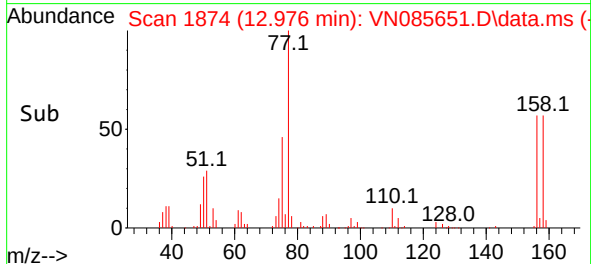
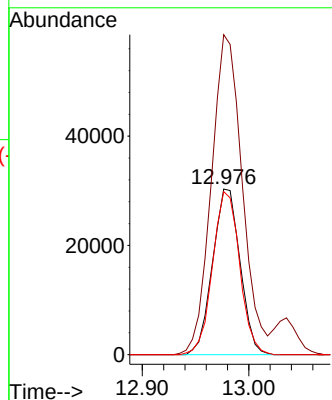
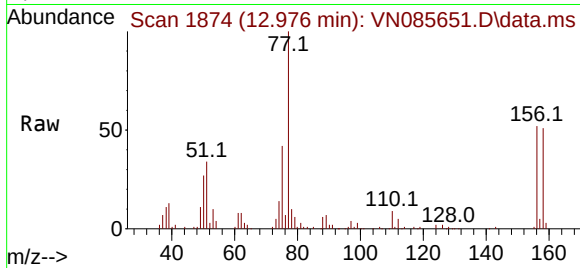




#77
Bromobenzene
Concen: 20.501 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

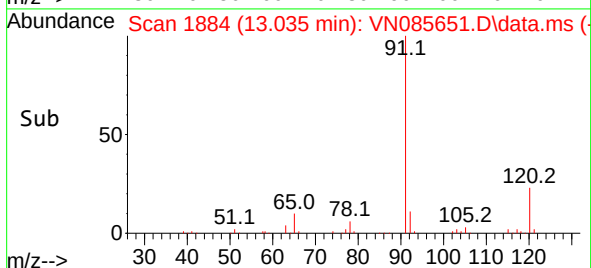
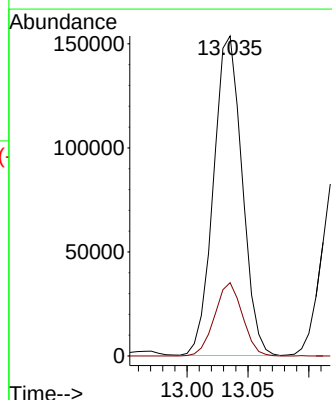
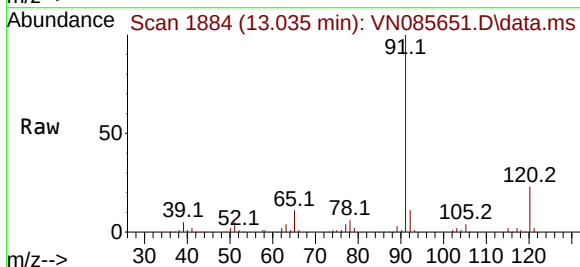
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

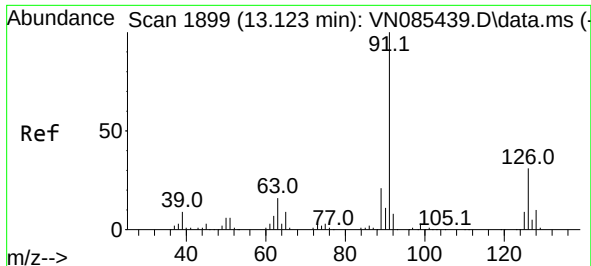
Tgt Ion:156 Resp: 54340
Ion Ratio Lower Upper
156 100
77 216.9 114.1 342.4
158 96.9 48.9 146.8



#78
n-propylbenzene
Concen: 20.891 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 91 Resp: 250899
Ion Ratio Lower Upper
91 100
120 22.2 10.9 32.6

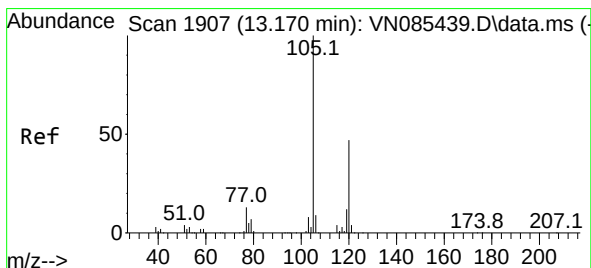
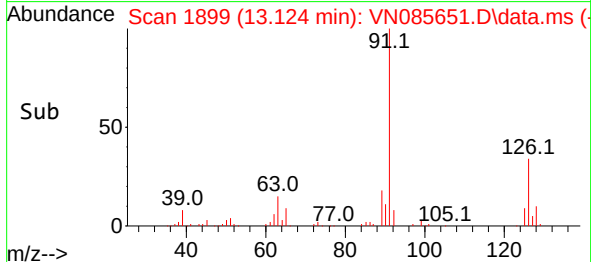
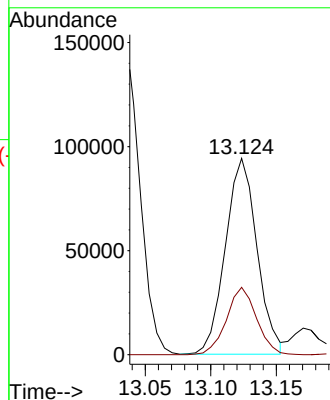
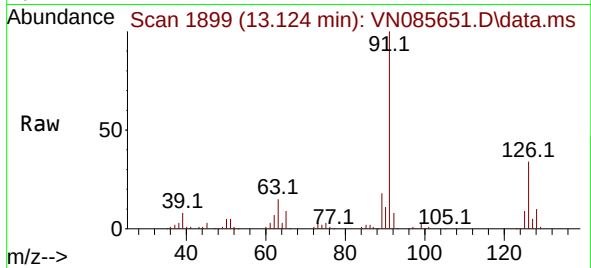




#79
2-Chlorotoluene
Concen: 20.353 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

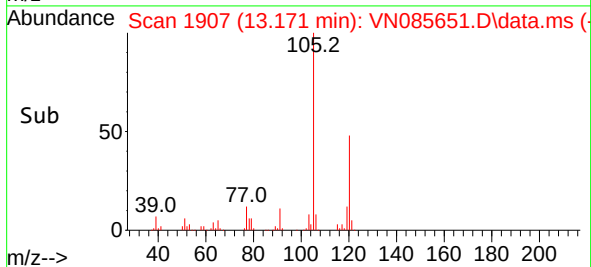
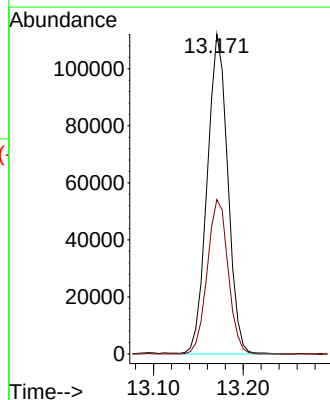
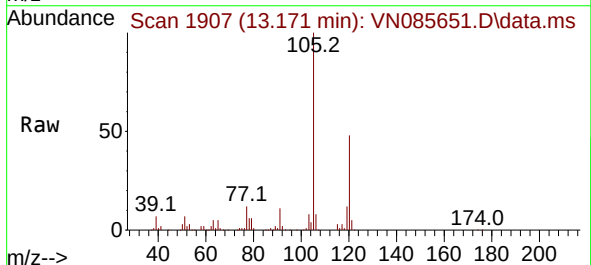
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

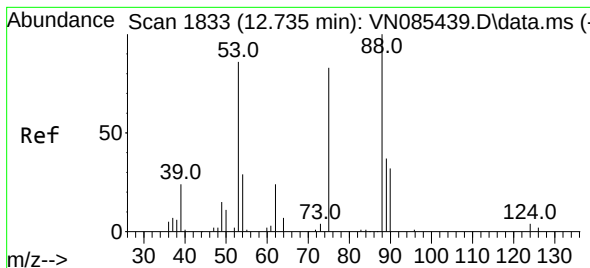
Tgt Ion: 91 Resp: 158204
Ion Ratio Lower Upper
91 100
126 32.7 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 21.323 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 105 Resp: 178682
Ion Ratio Lower Upper
105 100
120 48.8 23.9 71.7

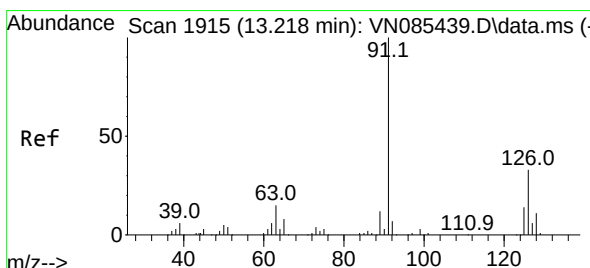
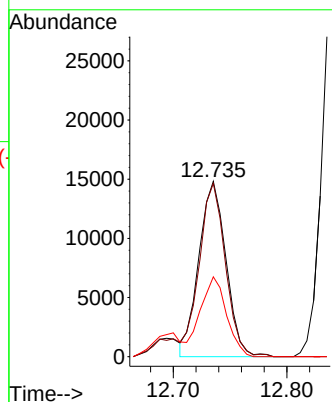
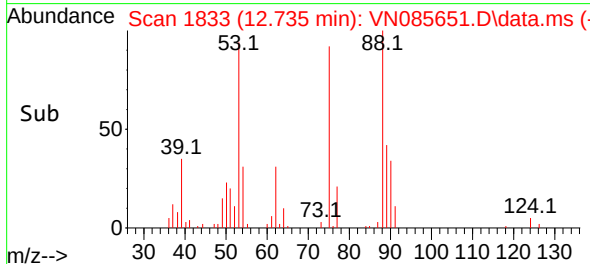
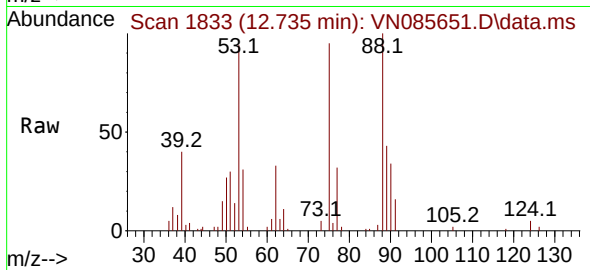




#81
trans-1,4-Dichloro-2-butene
Concen: 21.810 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

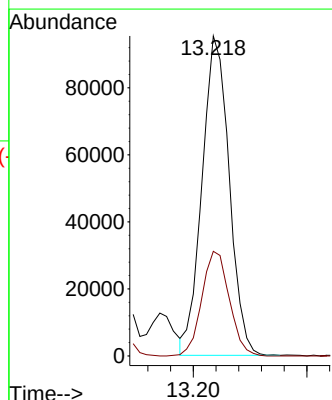
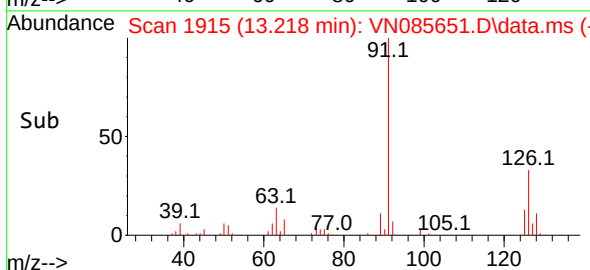
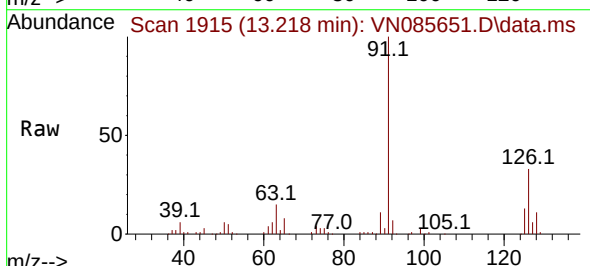
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

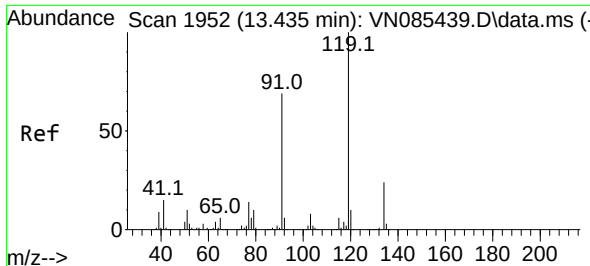
Tgt Ion: 75 Resp: 24629
Ion Ratio Lower Upper
75 100
53 105.9 95.6 143.4
89 43.5 37.0 55.6



#82
4-Chlorotoluene
Concen: 20.405 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 91 Resp: 157925
Ion Ratio Lower Upper
91 100
126 33.2 15.9 47.7

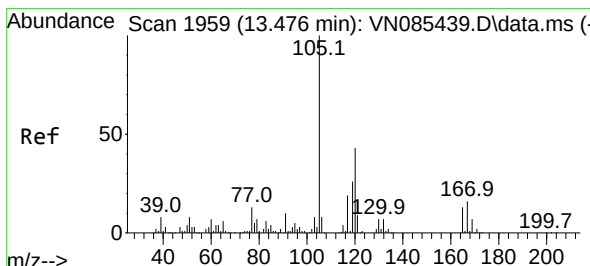
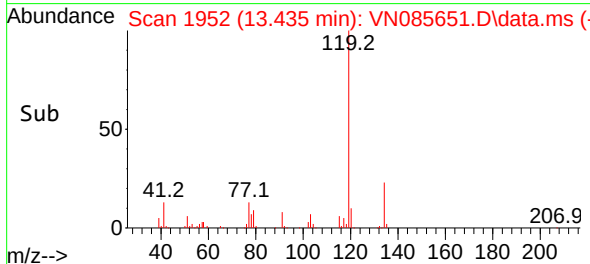
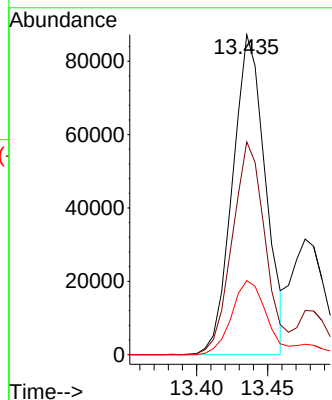
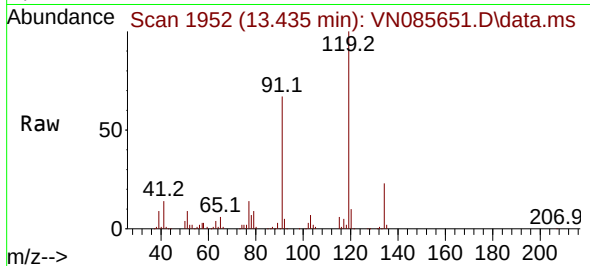




#83
 tert-Butylbenzene
 Concen: 19.923 ug/l
 RT: 13.435 min Scan# 1952
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

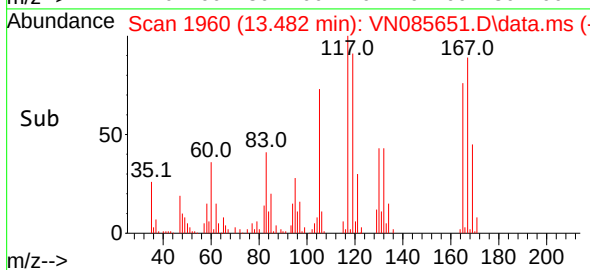
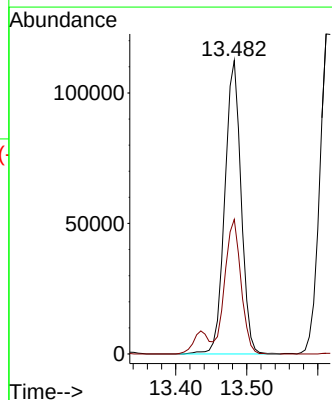
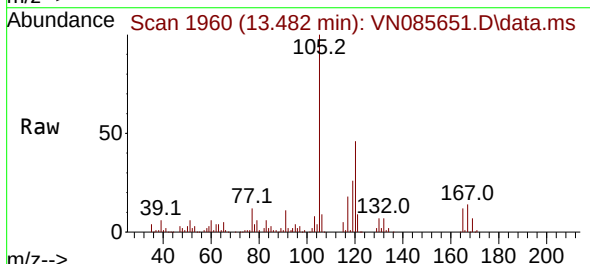
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

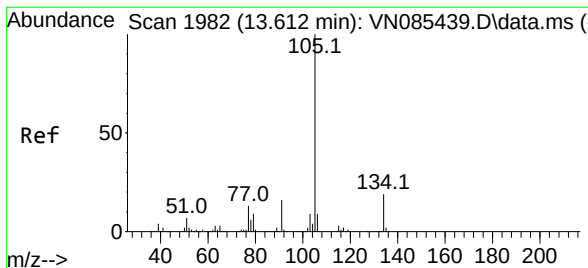
Tgt Ion:	119	Resp:	140205
Ion Ratio	Lower	Upper	
119	100		
91	67.3	35.1	105.3
134	24.3	12.0	36.1



#84
 1,2,4-Trimethylbenzene
 Concen: 21.370 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.006 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion:	105	Resp:	178481
Ion Ratio	Lower	Upper	
105	100		
120	45.3	21.6	65.0

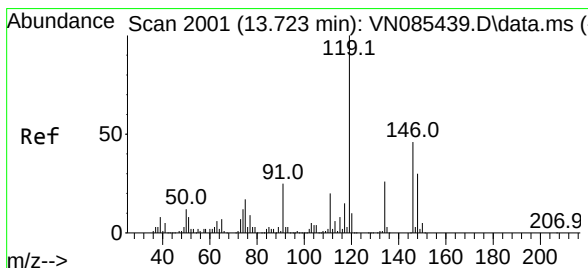
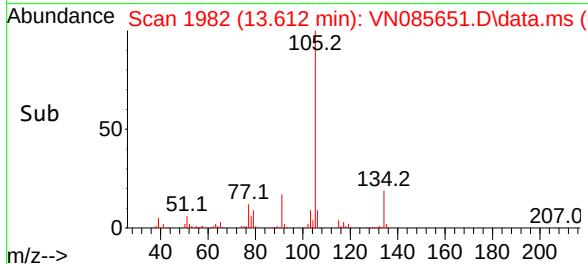
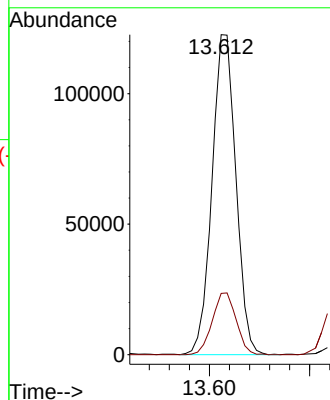
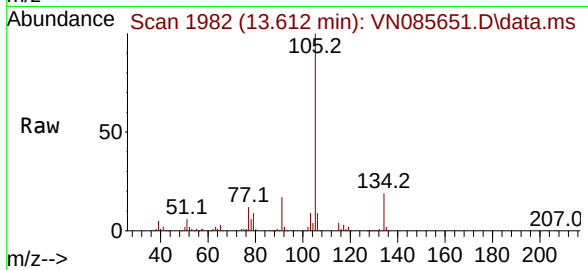




#85
 sec-Butylbenzene
 Concen: 20.804 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

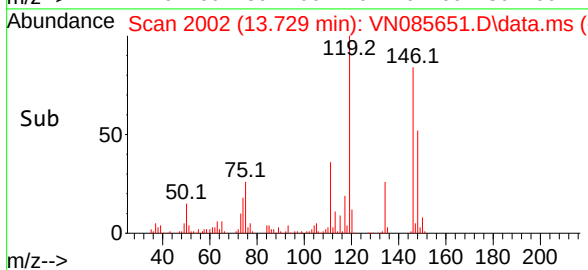
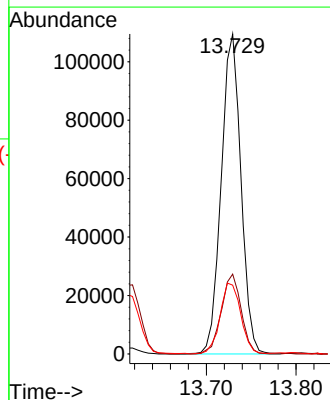
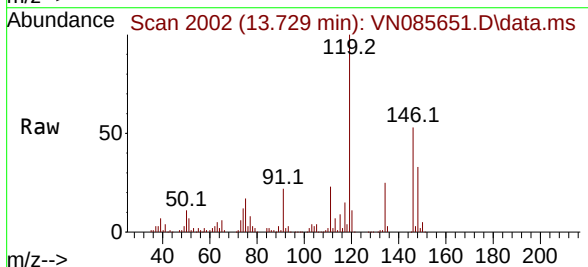
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

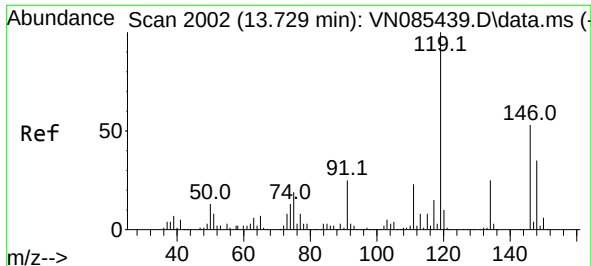
Tgt Ion:105 Resp: 202909
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 20.523 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion:119 Resp: 167070
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.7 38.0
 91 23.4 12.7 38.1

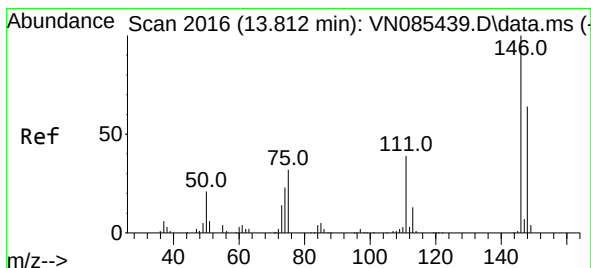
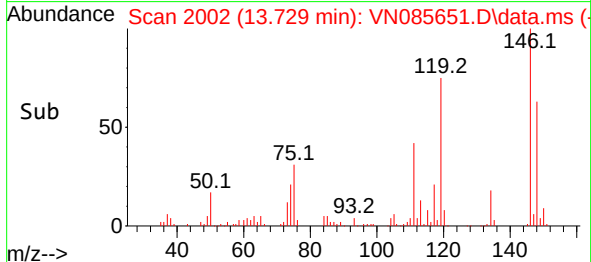
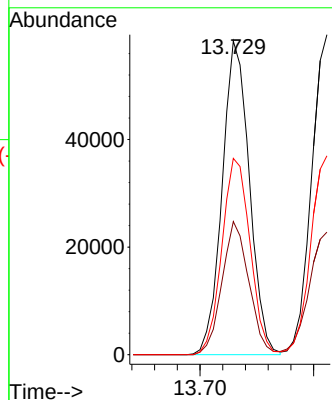
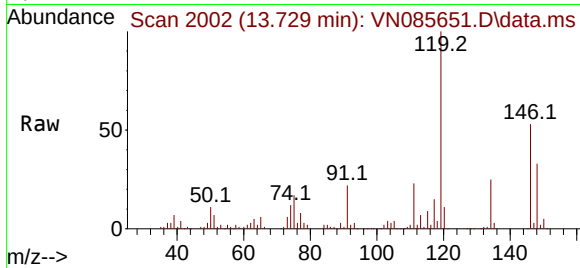




#87
 1,3-Dichlorobenzene
 Concen: 19.896 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

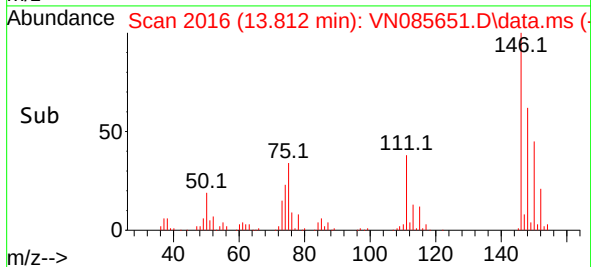
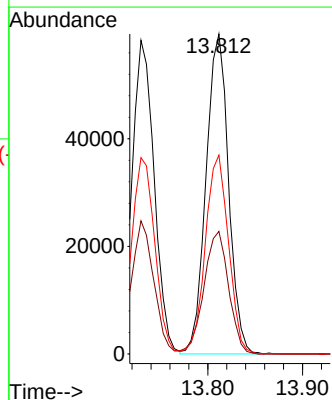
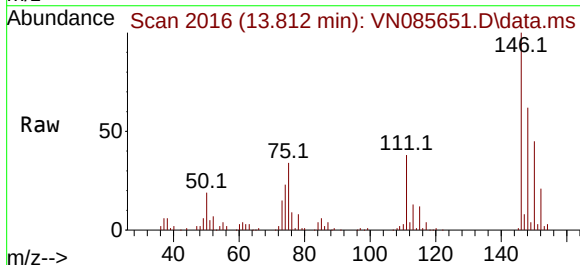
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

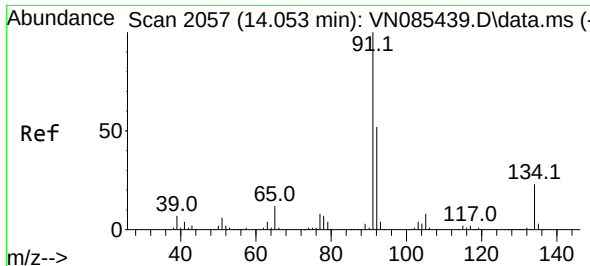
Tgt Ion:146 Resp: 97119
 Ion Ratio Lower Upper
 146 100
 111 42.1 21.4 64.3
 148 64.8 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 19.382 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion:146 Resp: 98065
 Ion Ratio Lower Upper
 146 100
 111 42.0 21.3 63.7
 148 64.1 32.4 97.0

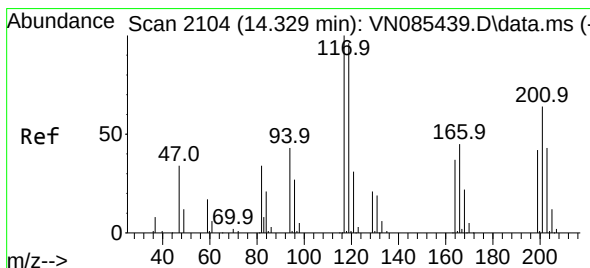
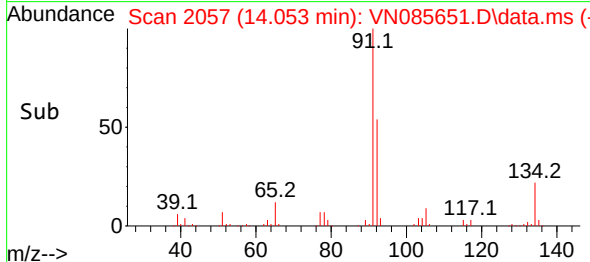
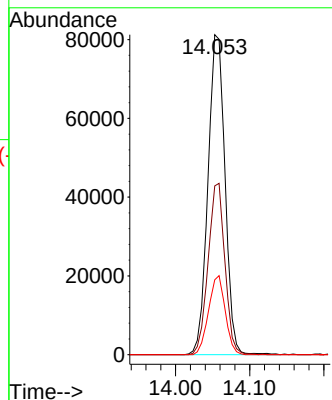
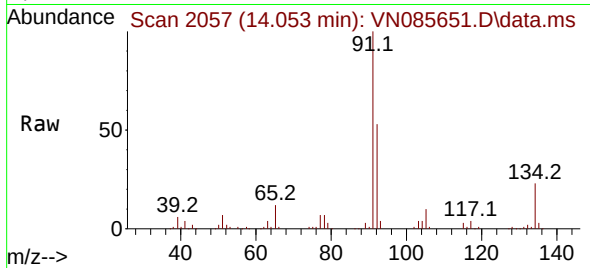




#89
n-Butylbenzene
Concen: 18.585 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

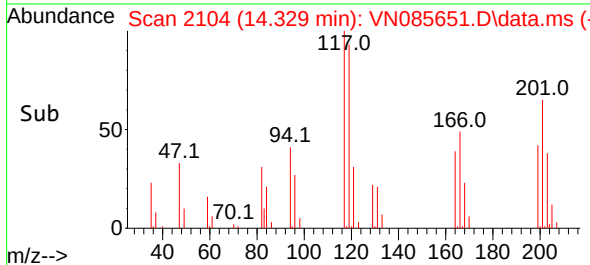
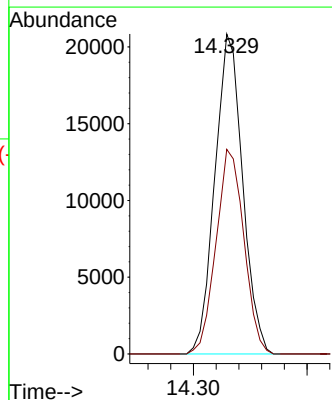
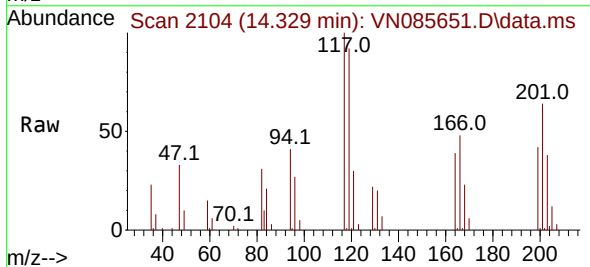
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

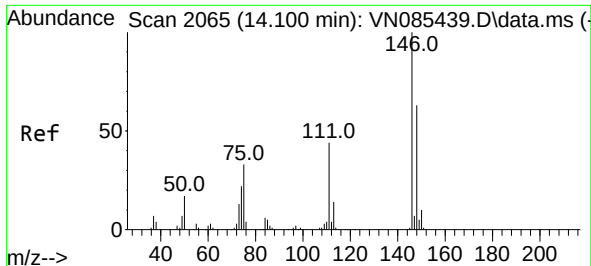
Tgt Ion: 91 Resp: 130043
Ion Ratio Lower Upper
91 100
92 52.6 25.8 77.3
134 24.1 11.7 35.1



#90
Hexachloroethane
Concen: 19.041 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion: 117 Resp: 35354
Ion Ratio Lower Upper
117 100
201 64.2 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 19.617 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBS02

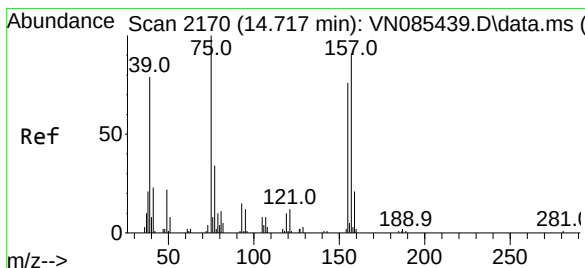
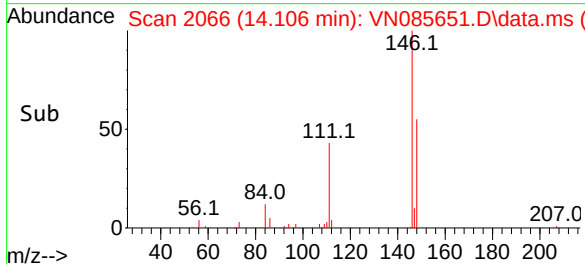
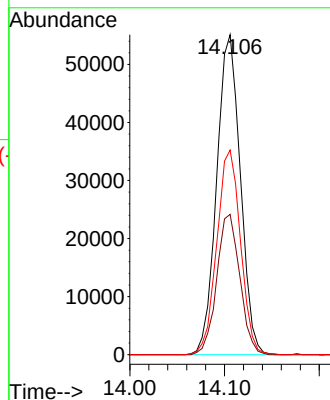
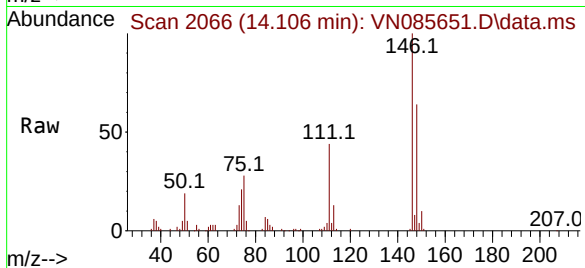
Tgt Ion:146 Resp: 95513

Ion Ratio Lower Upper

146 100

111 42.8 21.7 65.1

148 64.1 31.4 94.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.732 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN085651.D

Acq: 04 Feb 2025 14:51

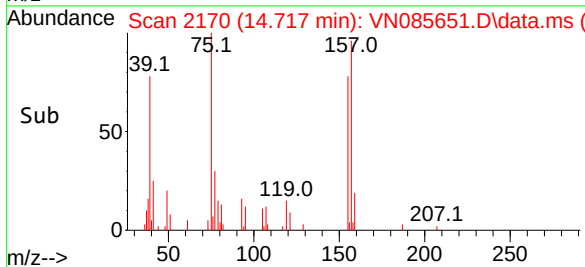
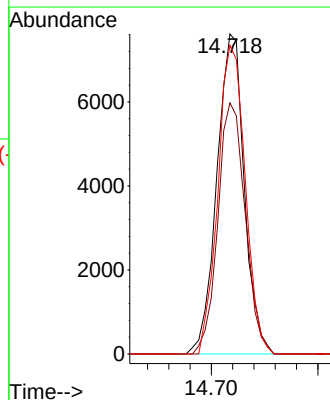
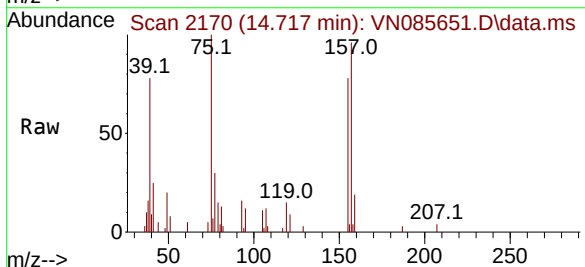
Tgt Ion: 75 Resp: 13567

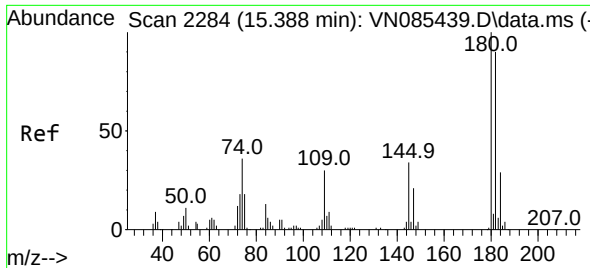
Ion Ratio Lower Upper

75 100

155 78.3 36.4 109.2

157 95.9 45.4 136.1

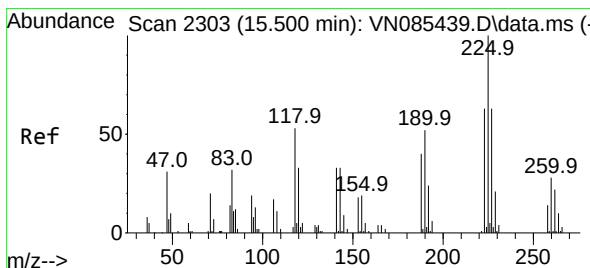
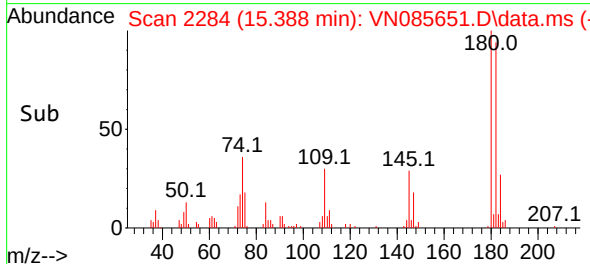
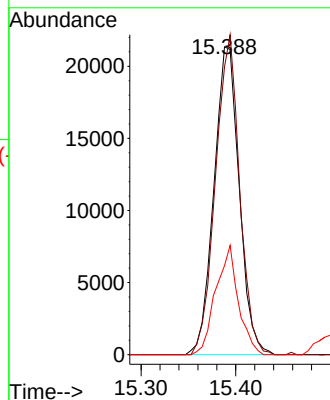
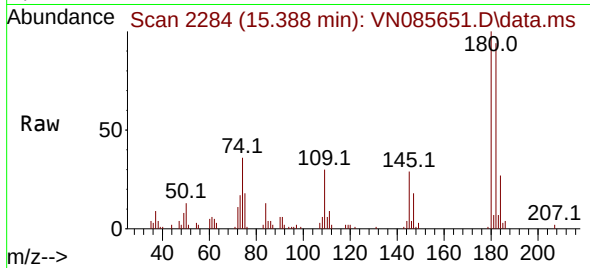




#93
 1,2,4-Trichlorobenzene
 Concen: 17.519 ug/l
 RT: 15.388 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

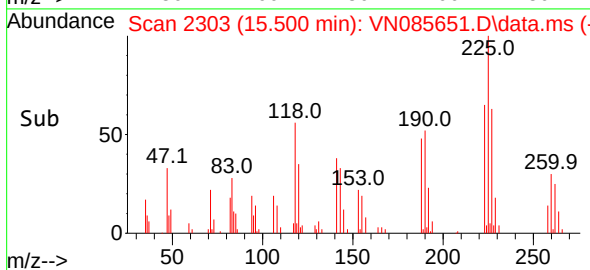
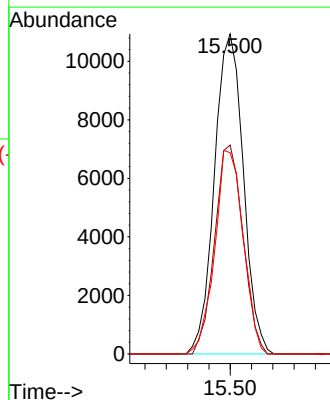
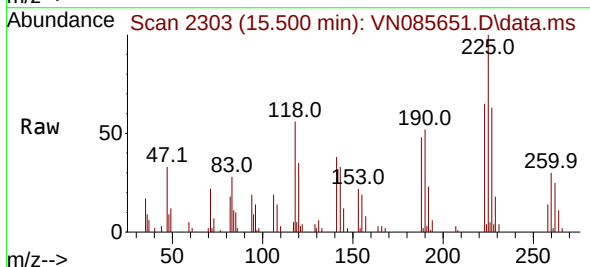
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBS02

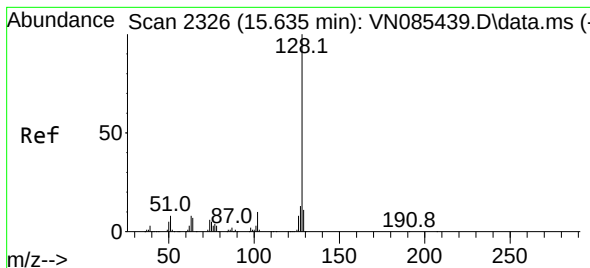
Tgt Ion:180	Resp:	39645
Ion Ratio	Lower	Upper
180	100	
182	98.7	46.8 140.3
145	31.6	16.0 48.0



#94
 Hexachlorobutadiene
 Concen: 17.154 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. 0.000 min
 Lab File: VN085651.D
 Acq: 04 Feb 2025 14:51

Tgt Ion:225	Resp:	20609
Ion Ratio	Lower	Upper
225	100	
223	63.9	30.7 92.1
227	62.6	30.9 92.5

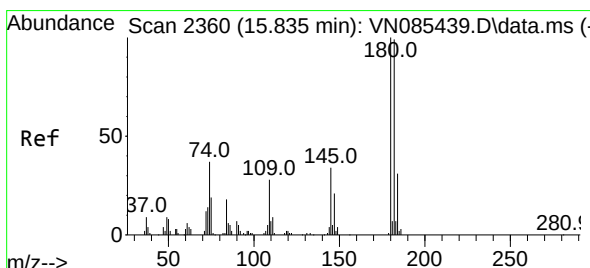
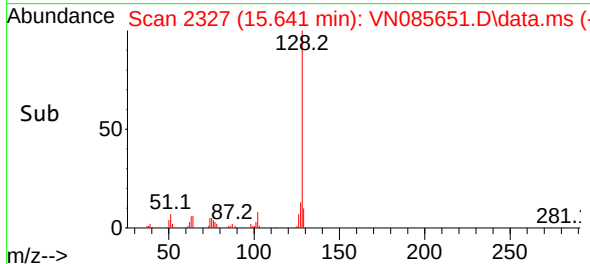
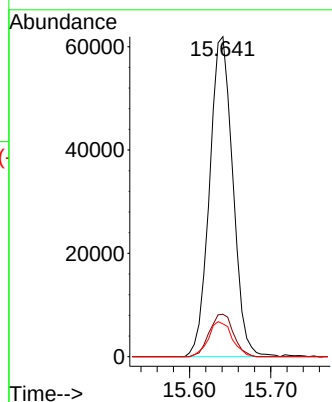
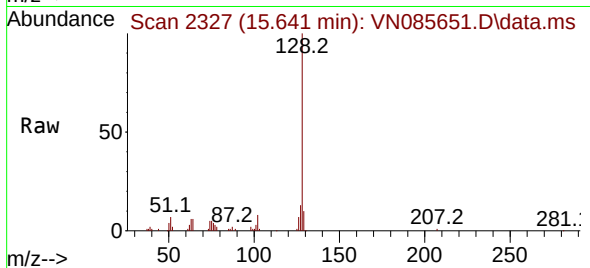




#95
Naphthalene
Concen: 18.276 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

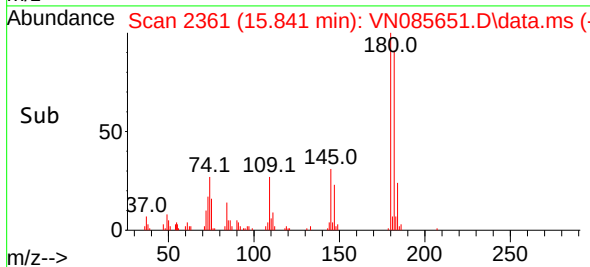
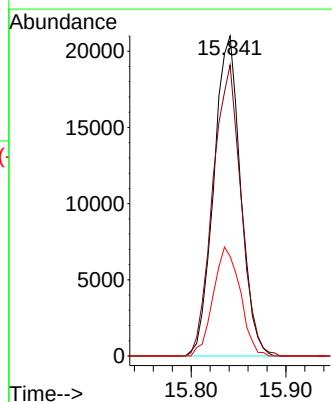
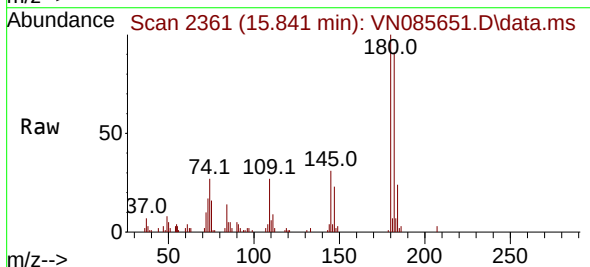
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBS02

Tgt Ion:128 Resp: 123413
Ion Ratio Lower Upper
128 100
127 13.8 10.6 16.0
129 11.1 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 17.977 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085651.D
Acq: 04 Feb 2025 14:51

Tgt Ion:180 Resp: 41163
Ion Ratio Lower Upper
180 100
182 95.5 47.4 142.2
145 34.3 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085655.D
 Acq On : 04 Feb 2025 16:37
 Operator : JC\MD
 Sample : VN0204WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

Quant Time: Feb 05 01:07:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	250474	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	394206	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352019	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	163365	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	172816	42.743	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.480%
35) Dibromofluoromethane	8.165	113	142777	52.207	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.420%
50) Toluene-d8	10.565	98	466570	48.017	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.040%
62) 4-Bromofluorobenzene	12.847	95	159331	47.936	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.880%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	67634	19.943	ug/l	98
3) Chloromethane	2.359	50	63076	17.178	ug/l	100
4) Vinyl Chloride	2.506	62	76128	20.627	ug/l	97
5) Bromomethane	2.953	94	49884	22.376	ug/l	98
6) Chloroethane	3.118	64	50094	21.408	ug/l #	87
7) Trichlorofluoromethane	3.495	101	112309	20.972	ug/l	100
8) Diethyl Ether	3.965	74	38321	20.714	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.377	101	63013	20.891	ug/l	98
10) Methyl Iodide	4.589	142	81140	23.491	ug/l #	97
11) Tert butyl alcohol	5.518	59	52265	112.891	ug/l	99
12) 1,1-Dichloroethene	4.336	96	58315	21.693	ug/l	88
13) Acrolein	4.177	56	40152	63.532	ug/l	99
14) Allyl chloride	5.024	41	74722	17.130	ug/l	95
15) Acrylonitrile	5.718	53	148522	100.998	ug/l	99
16) Acetone	4.424	43	121256	92.818	ug/l	94
17) Carbon Disulfide	4.706	76	168991	20.417	ug/l	99
18) Methyl Acetate	5.024	43	73954	18.617	ug/l	92
19) Methyl tert-butyl Ether	5.794	73	190486	21.823	ug/l	96
20) Methylene Chloride	5.277	84	66374	20.523	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	59956	20.870	ug/l	96
22) Diisopropyl ether	6.671	45	179895	18.581	ug/l	97
23) Vinyl Acetate	6.606	43	648302	95.681	ug/l	96
24) 1,1-Dichloroethane	6.559	63	113758	19.269	ug/l	97
25) 2-Butanone	7.483	43	189350	98.494	ug/l	94
26) 2,2-Dichloropropane	7.488	77	100142	20.981	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	70286	20.772	ug/l	94
28) Bromochloromethane	7.812	49	42897	15.618	ug/l #	82
29) Tetrahydrofuran	7.841	42	123148	101.037	ug/l	89
30) Chloroform	7.965	83	120068	19.678	ug/l	95
31) Cyclohexane	8.253	56	92756	18.077	ug/l #	87
32) 1,1,1-Trichloroethane	8.171	97	107522	20.090	ug/l	94
36) 1,1-Dichloropropene	8.371	75	80237	20.905	ug/l	97
37) Ethyl Acetate	7.559	43	75695	19.538	ug/l #	95
38) Carbon Tetrachloride	8.359	117	93378	21.250	ug/l	99
39) Methylcyclohexane	9.600	83	74735	20.720	ug/l	94
40) Benzene	8.606	78	256293	22.223	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085655.D
 Acq On : 04 Feb 2025 16:37
 Operator : JC\MD
 Sample : VN0204WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

Quant Time: Feb 05 01:07:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	42732	21.201	ug/l	94
42) 1,2-Dichloroethane	8.665	62	80112	18.444	ug/l	98
43) Isopropyl Acetate	8.688	43	129867	20.920	ug/l	100
44) Trichloroethene	9.353	130	54471	20.291	ug/l	96
45) 1,2-Dichloropropane	9.618	63	54518	18.507	ug/l	92
46) Dibromomethane	9.706	93	42107	19.810	ug/l	97
47) Bromodichloromethane	9.888	83	82292	19.003	ug/l	99
48) Methyl methacrylate	9.682	41	50846	18.201	ug/l #	86
49) 1,4-Dioxane	9.694	88	19845	421.835	ug/l	92
51) 4-Methyl-2-Pentanone	10.441	43	349156	96.926	ug/l	93
52) Toluene	10.629	92	143888	21.533	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	82951	20.270	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	88864	20.329	ug/l #	89
55) 1,1,2-Trichloroethane	11.018	97	55559	21.009	ug/l	95
56) Ethyl methacrylate	10.871	69	83221	19.891	ug/l	88
57) 1,3-Dichloropropane	11.165	76	93182	20.265	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	114733	68.367	ug/l	95
59) 2-Hexanone	11.194	43	256296	101.116	ug/l	92
60) Dibromochloromethane	11.359	129	63273	19.818	ug/l	98
61) 1,2-Dibromoethane	11.465	107	54817	20.824	ug/l	100
64) Tetrachloroethene	11.100	164	49290	20.539	ug/l	98
65) Chlorobenzene	11.888	112	159321	20.660	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	54350	19.203	ug/l	98
67) Ethyl Benzene	11.965	91	268719	21.395	ug/l	100
68) m/p-Xylenes	12.070	106	210638	45.376	ug/l	93
69) o-Xylene	12.400	106	102151	23.027	ug/l	98
70) Styrene	12.412	104	169955	23.149	ug/l	95
71) Bromoform	12.576	173	42989	21.228	ug/l #	100
73) Isopropylbenzene	12.694	105	257943	23.395	ug/l	100
74) N-amyl acetate	12.494	43	100117	20.202	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	78295	20.103	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	101633	30.608	ug/l	43
77) Bromobenzene	12.982	156	62751	21.784	ug/l	90
78) n-propylbenzene	13.035	91	286507	21.950	ug/l	94
79) 2-Chlorotoluene	13.123	91	179331	21.229	ug/l	95
80) 1,3,5-Trimethylbenzene	13.170	105	202037	22.184	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	30645	24.970	ug/l #	77
82) 4-Chlorotoluene	13.217	91	173140	20.584	ug/l	95
83) tert-Butylbenzene	13.435	119	180098	23.548	ug/l	93
84) 1,2,4-Trimethylbenzene	13.482	105	208039	22.919	ug/l	96
85) sec-Butylbenzene	13.612	105	242783	22.904	ug/l	98
86) p-Isopropyltoluene	13.729	119	204722	22.987	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	106100	20.000	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	107417	19.535	ug/l	99
89) n-Butylbenzene	14.053	91	175860	23.126	ug/l	98
90) Hexachloroethane	14.329	117	37770	18.717	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	107206	20.260	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	15213	21.390	ug/l	85
93) 1,2,4-Trichlorobenzene	15.388	180	51534	20.954	ug/l	95
94) Hexachlorobutadiene	15.500	225	21348	16.350	ug/l	96
95) Naphthalene	15.635	128	208295	28.382	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.841	180	49703	19.973	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085655.D
Acq On : 04 Feb 2025 16:37
Operator : JC\MD
Sample : VN0204WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Quant Time: Feb 05 01:07:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

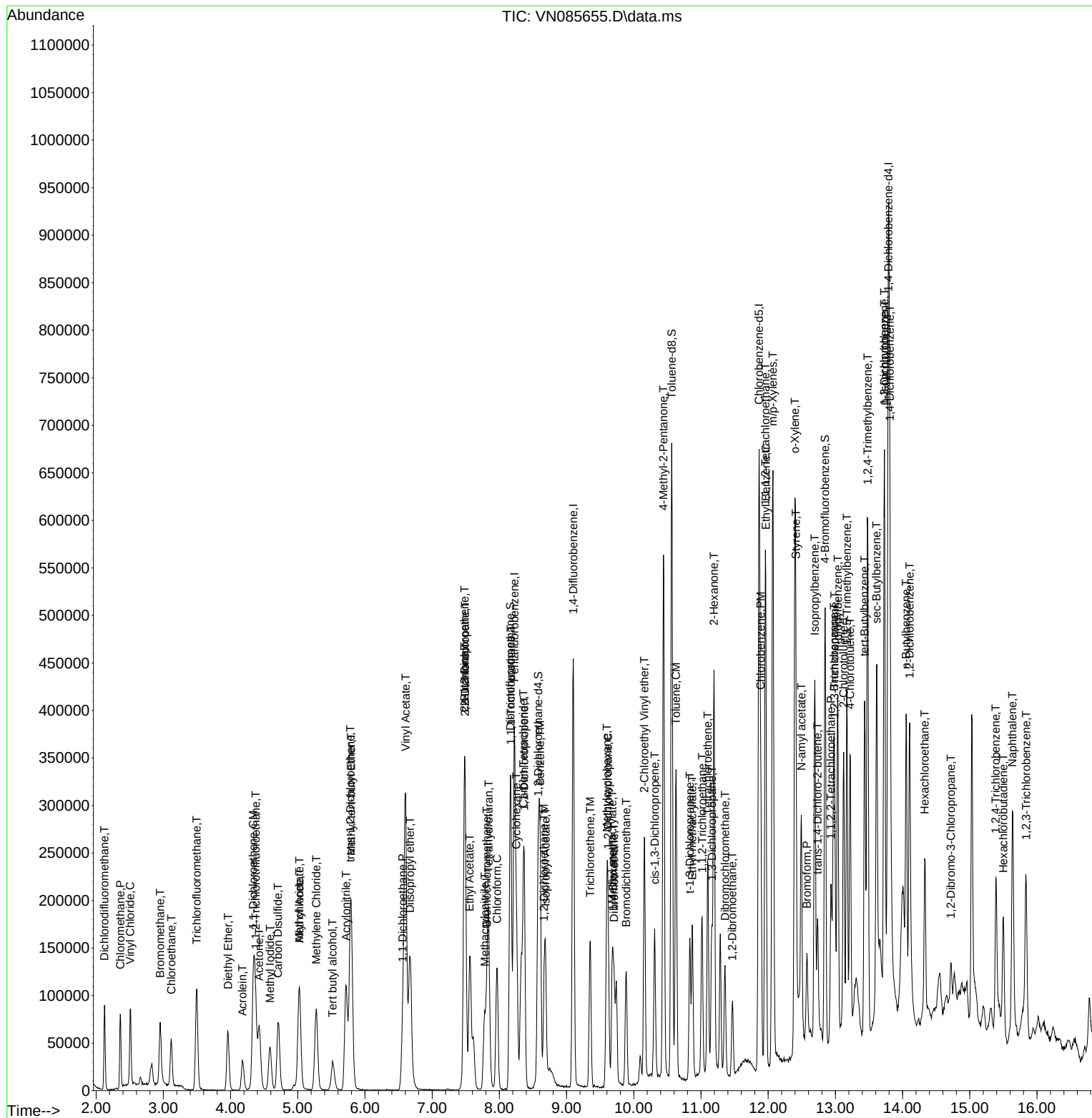
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

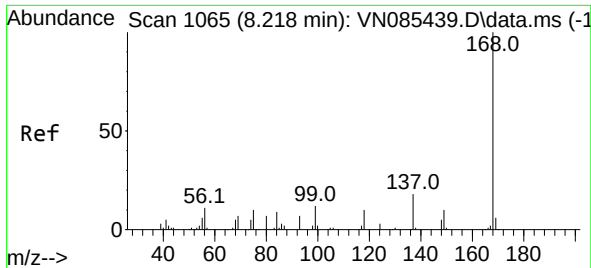
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085655.D
Acq On : 04 Feb 2025 16:37
Operator : JC\MD
Sample : VN0204WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Quant Time: Feb 05 01:07:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

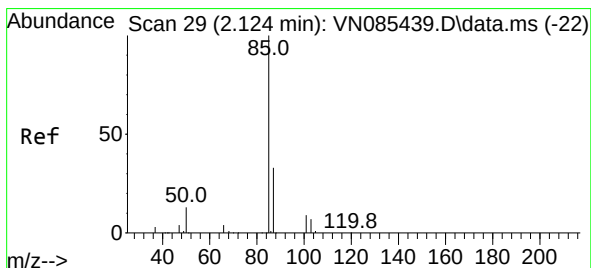
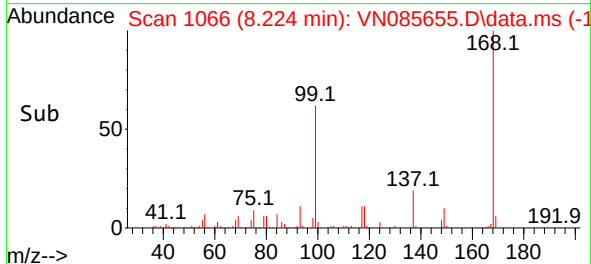
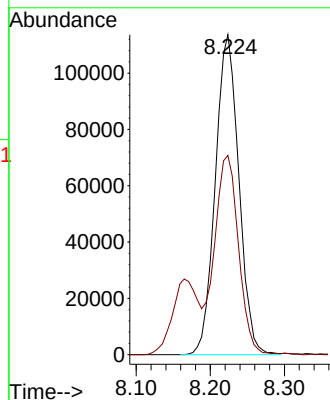
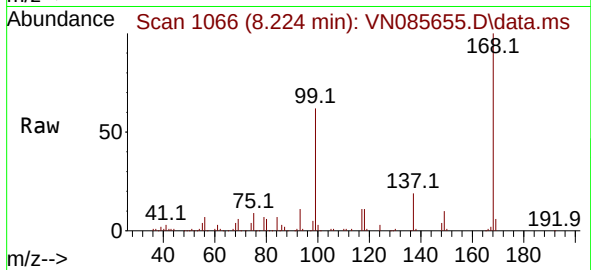




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

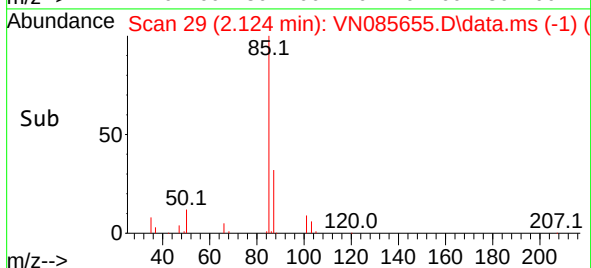
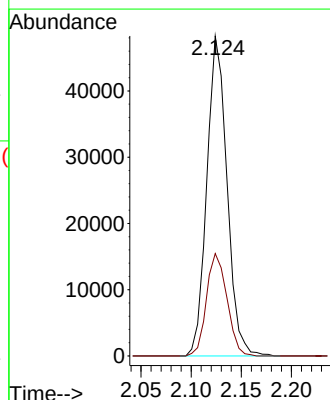
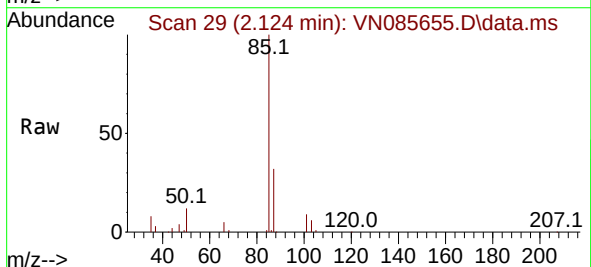
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

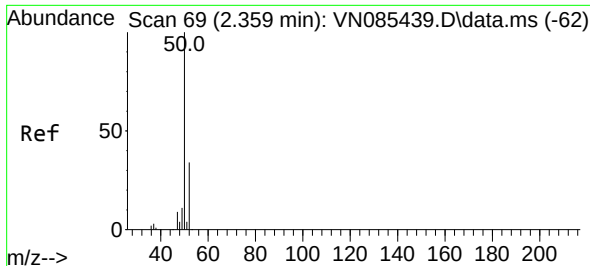
Tgt Ion:168 Resp: 250474
Ion Ratio Lower Upper
168 100
99 61.9 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 19.943 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 85 Resp: 67634
Ion Ratio Lower Upper
85 100
87 32.0 16.7 50.1

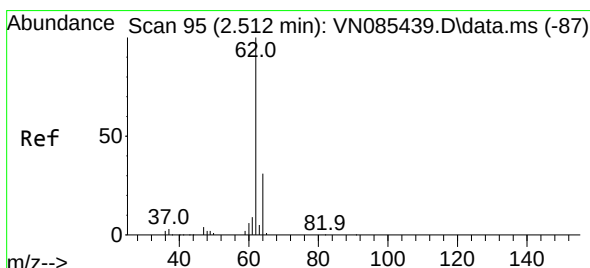
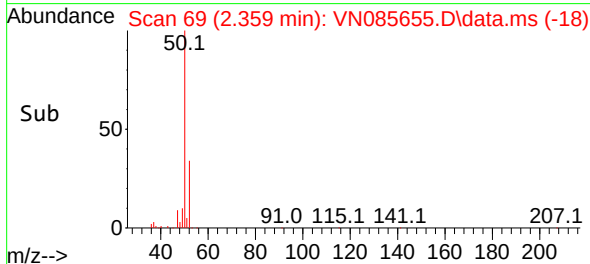
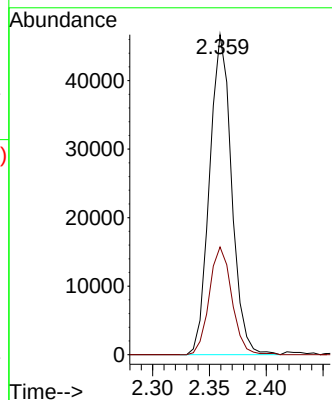
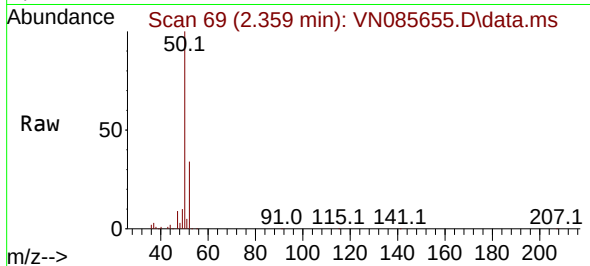




#3
Chloromethane
Concen: 17.178 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

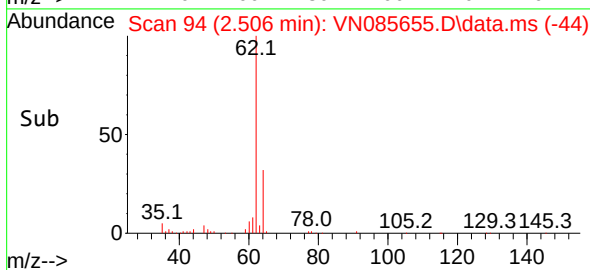
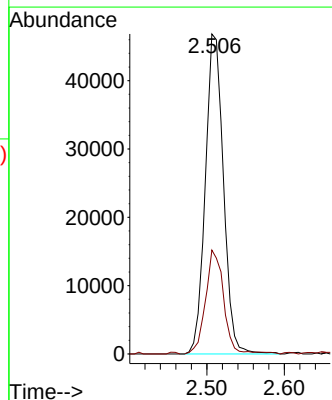
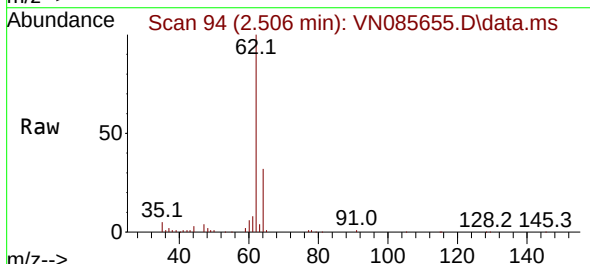
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

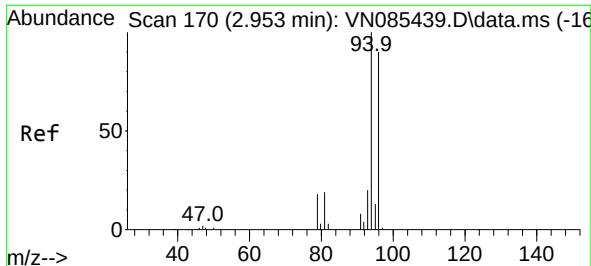
Tgt Ion: 50 Resp: 63076
Ion Ratio Lower Upper
50 100
52 33.7 27.0 40.6



#4
Vinyl Chloride
Concen: 20.627 ug/l
RT: 2.506 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 62 Resp: 76128
Ion Ratio Lower Upper
62 100
64 32.5 24.8 37.2

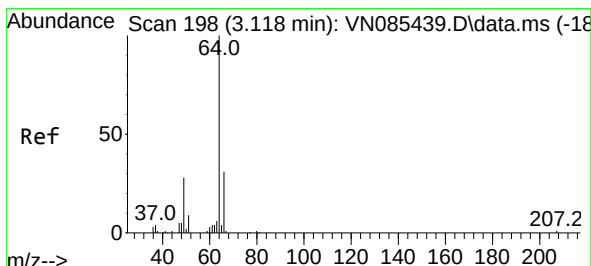
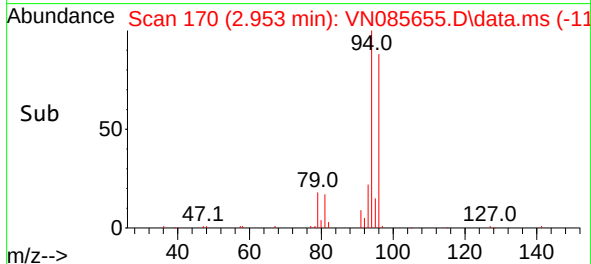
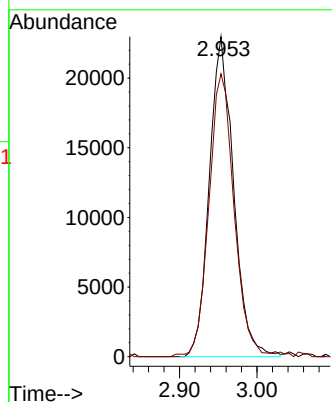
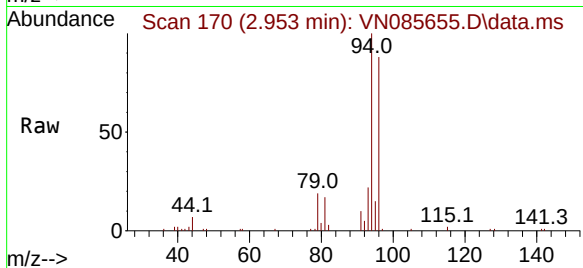




#5
Bromomethane
Concen: 22.376 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

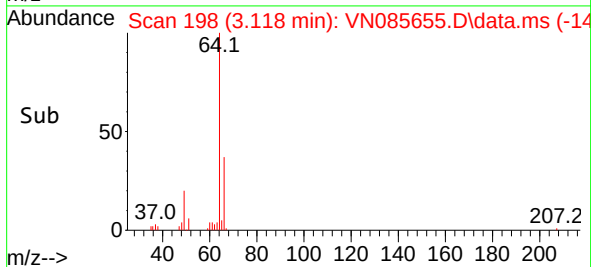
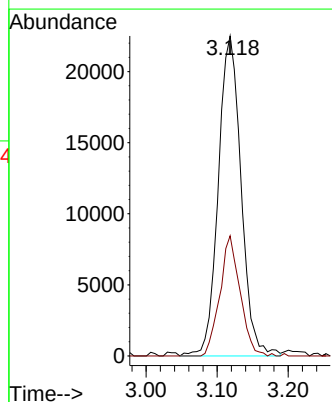
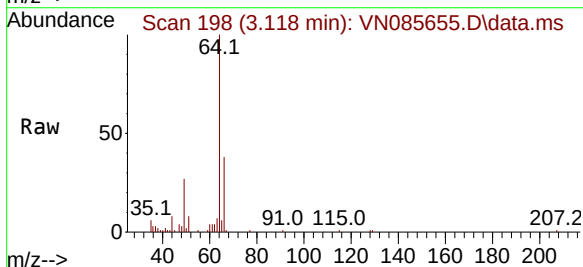
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

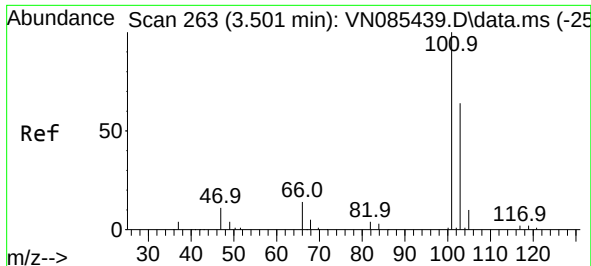
Tgt Ion: 94 Resp: 49884
Ion Ratio Lower Upper
94 100
96 87.6 71.8 107.6



#6
Chloroethane
Concen: 21.408 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 64 Resp: 50094
Ion Ratio Lower Upper
64 100
66 37.5 24.6 36.8#

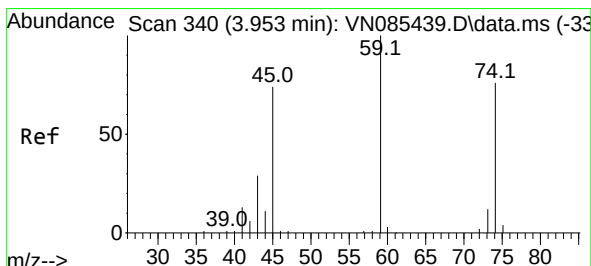
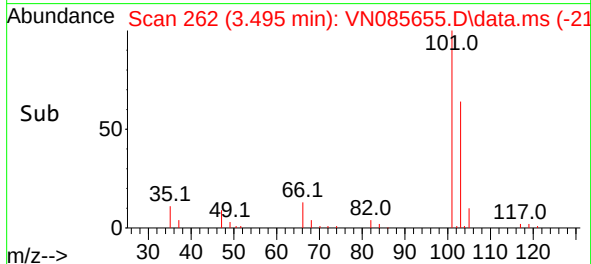
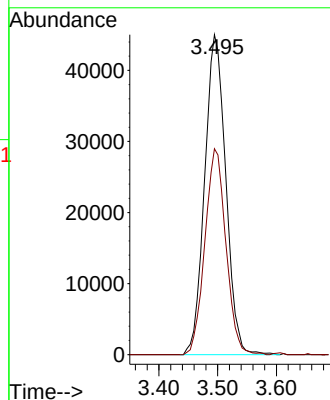
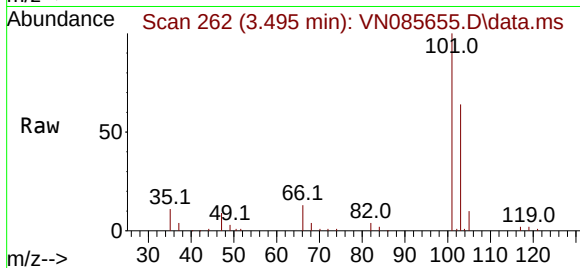




#7
 Trichlorofluoromethane
 Concen: 20.972 ug/l
 RT: 3.495 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

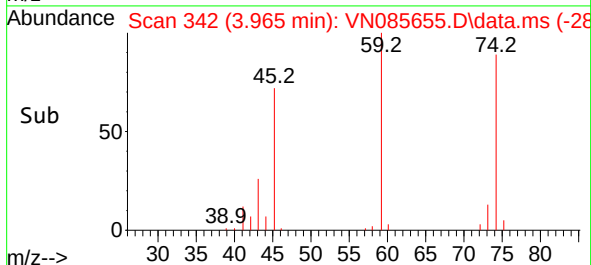
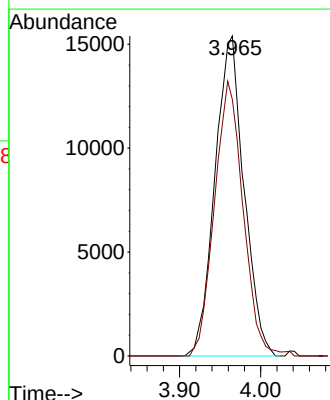
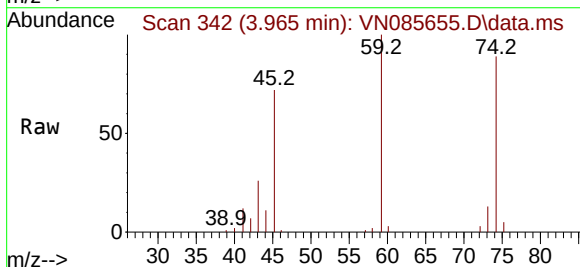
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

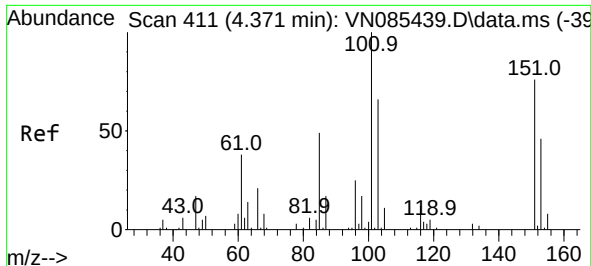
Tgt Ion:101 Resp: 112309
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.4 77.2



#8
 Diethyl Ether
 Concen: 20.714 ug/l
 RT: 3.965 min Scan# 342
 Delta R.T. 0.012 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

Tgt Ion: 74 Resp: 38321
 Ion Ratio Lower Upper
 74 100
 45 84.5 49.7 149.1

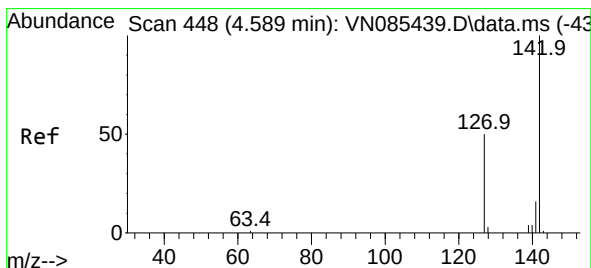
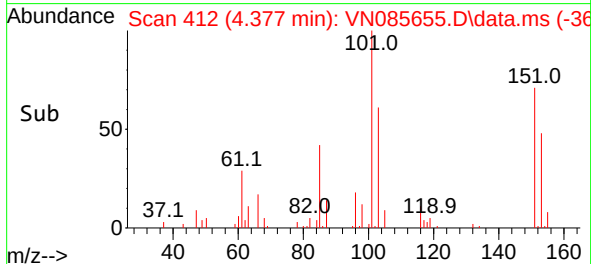
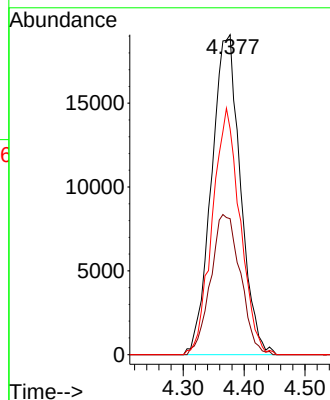
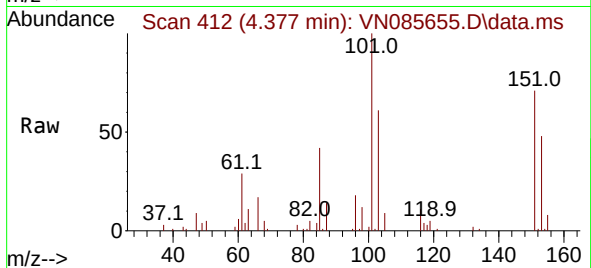




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.891 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

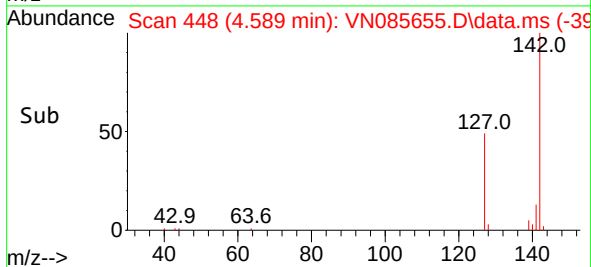
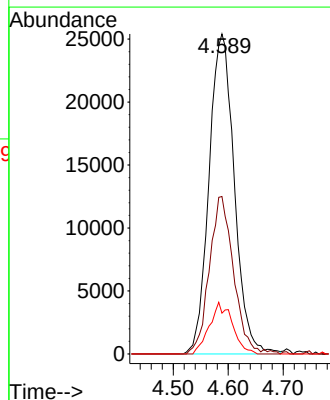
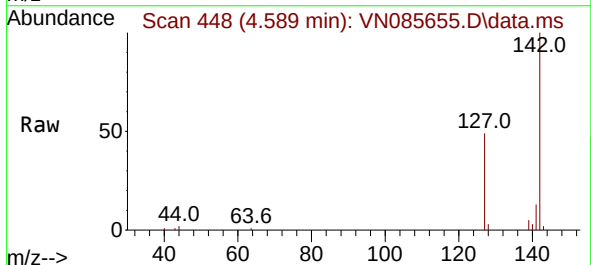
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

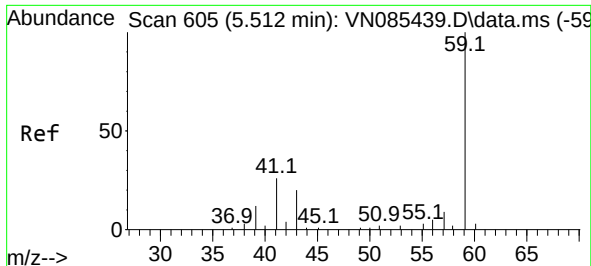
Tgt Ion:101 Resp: 63013
Ion Ratio Lower Upper
101 100
85 45.0 37.8 56.8
151 73.8 58.8 88.2



#10
Methyl Iodide
Concen: 23.491 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:142 Resp: 81140
Ion Ratio Lower Upper
142 100
127 49.2 40.3 60.5
141 12.8 12.8 19.2#

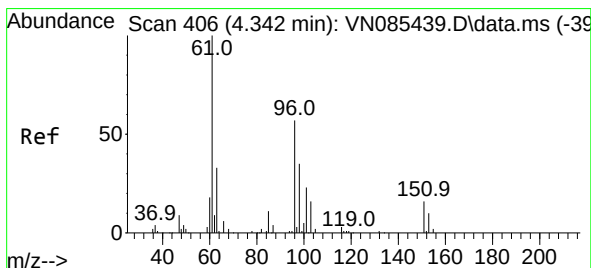
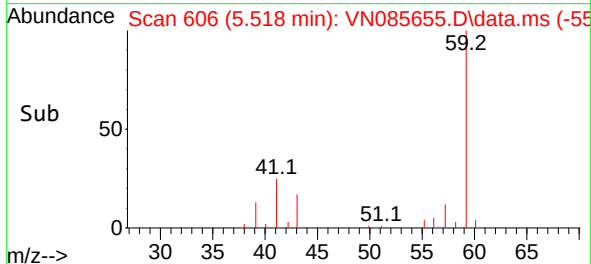
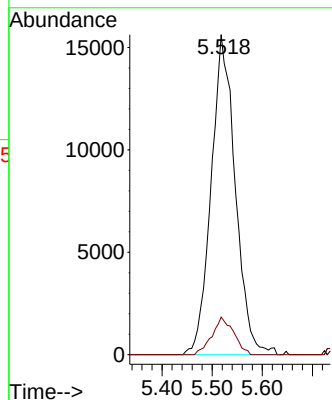
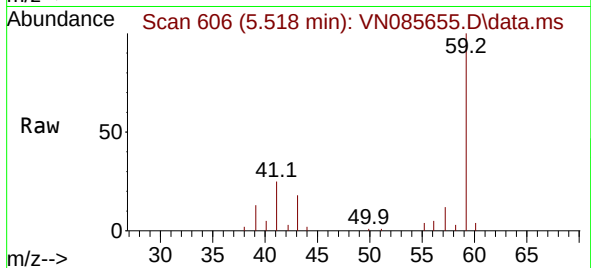




#11
Tert butyl alcohol
Concen: 112.891 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

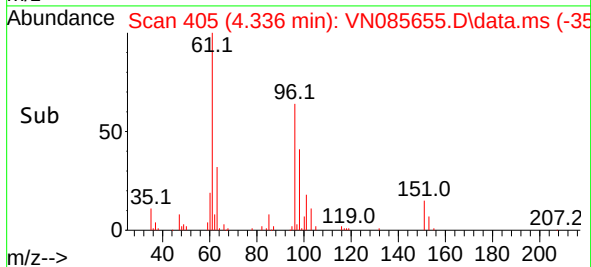
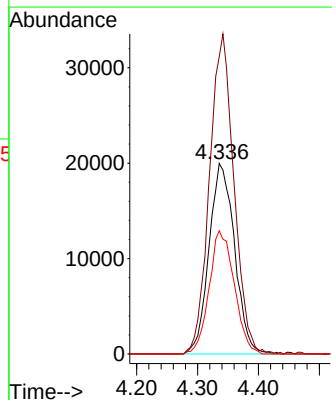
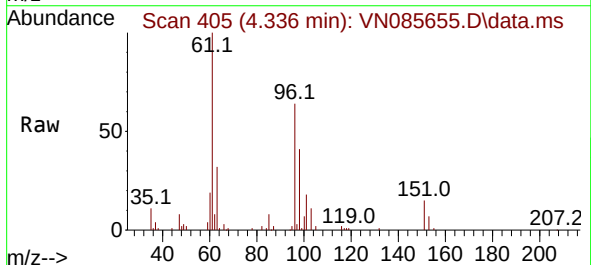
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

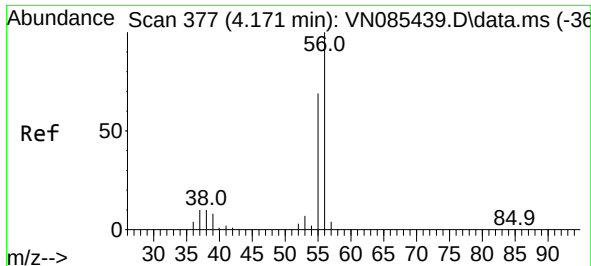
Tgt Ion: 59 Resp: 52265
Ion Ratio Lower Upper
59 100
57 10.5 8.6 13.0



#12
1,1-Dichloroethene
Concen: 21.693 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 96 Resp: 58315
Ion Ratio Lower Upper
96 100
61 156.2 141.0 211.4
98 64.7 49.0 73.6





#13

Acrolein

Concen: 63.532 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

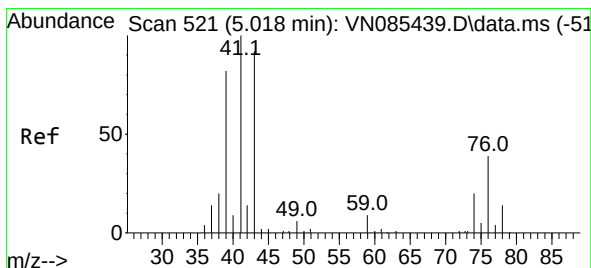
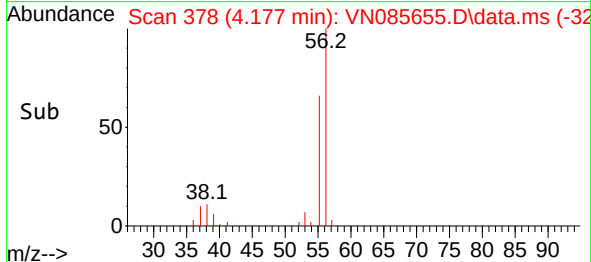
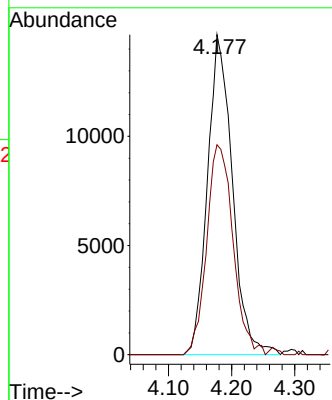
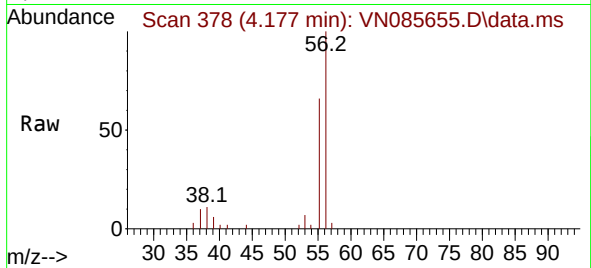
VN0204WBSD02

Tgt Ion: 56 Resp: 40152

Ion Ratio Lower Upper

56 100

55 69.4 56.3 84.5



#14

Allyl chloride

Concen: 17.130 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

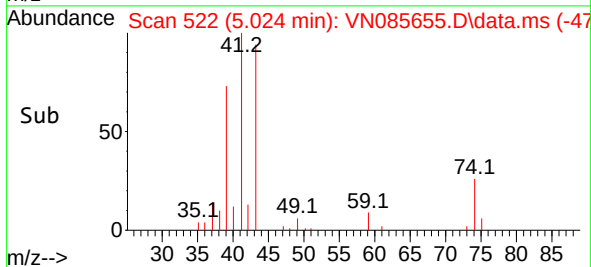
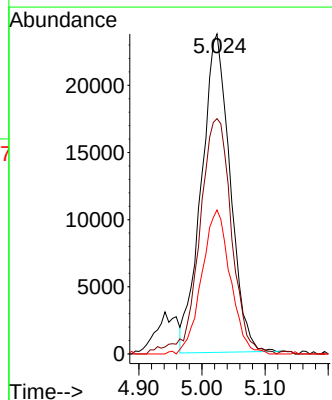
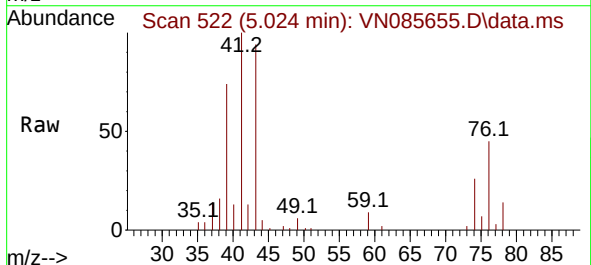
Tgt Ion: 41 Resp: 74722

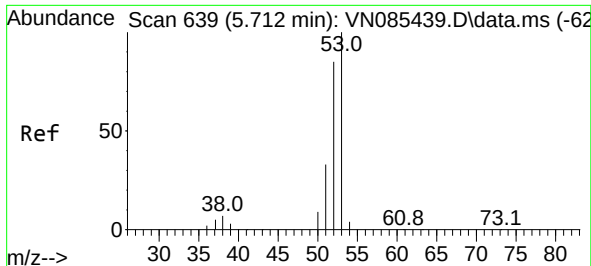
Ion Ratio Lower Upper

41 100

39 82.0 64.4 96.6

76 45.2 30.5 45.7

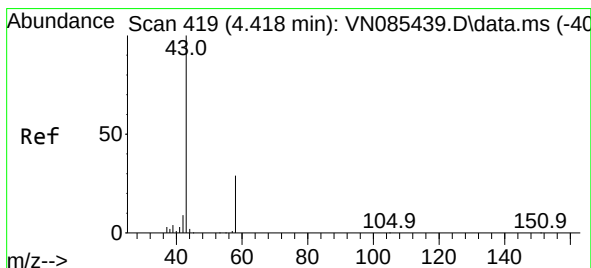
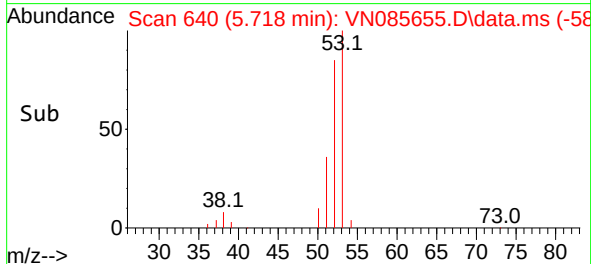
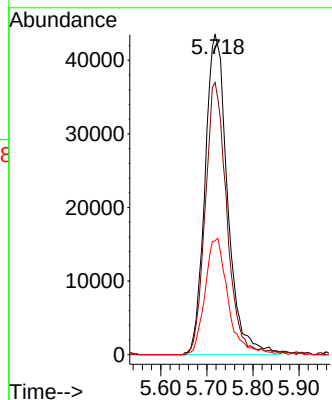
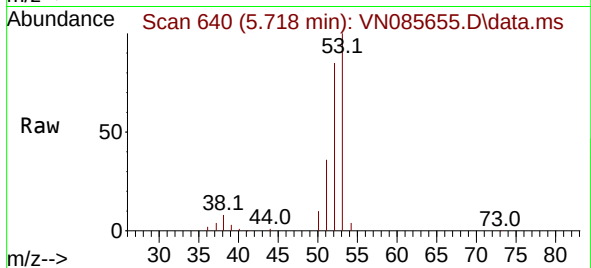




#15
Acrylonitrile
Concen: 100.998 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

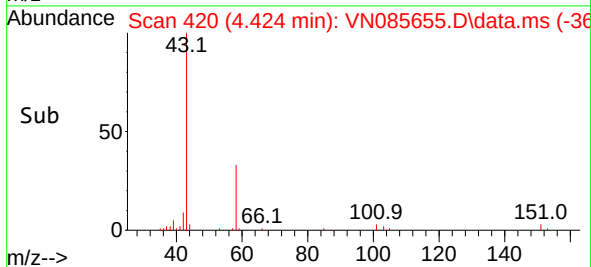
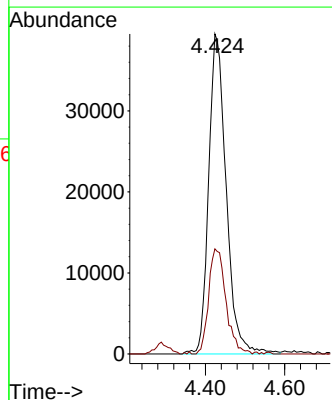
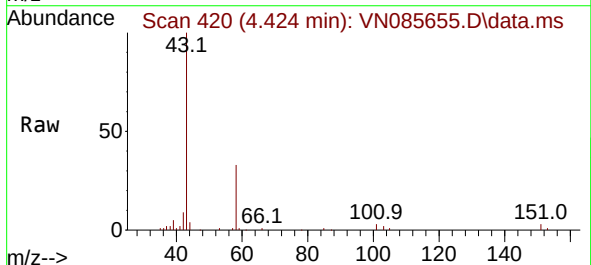
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

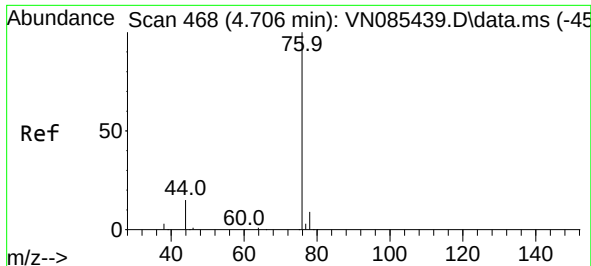
Tgt Ion: 53 Resp: 148522
Ion Ratio Lower Upper
53 100
52 81.1 65.5 98.3
51 36.5 29.8 44.8



#16
Acetone
Concen: 92.818 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 43 Resp: 121256
Ion Ratio Lower Upper
43 100
58 32.9 23.8 35.6

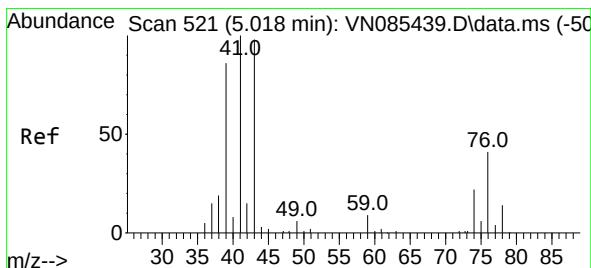
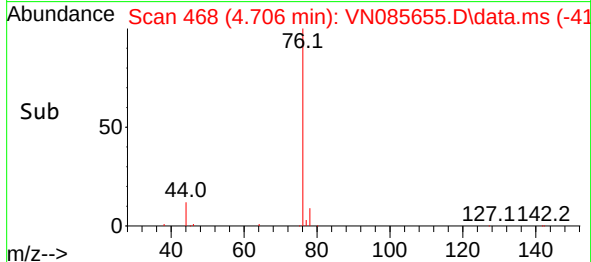
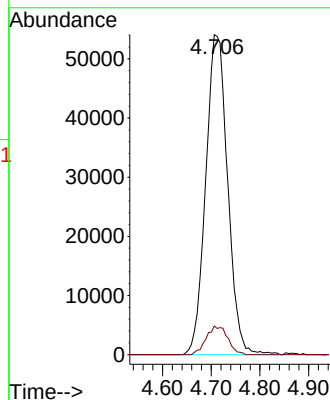
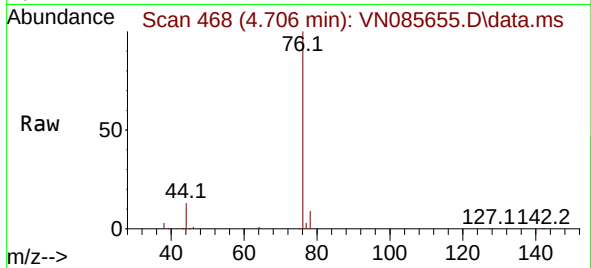




#17
Carbon Disulfide
Concen: 20.417 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

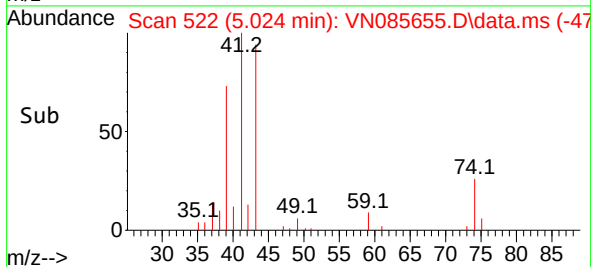
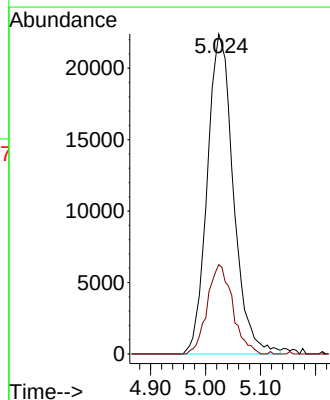
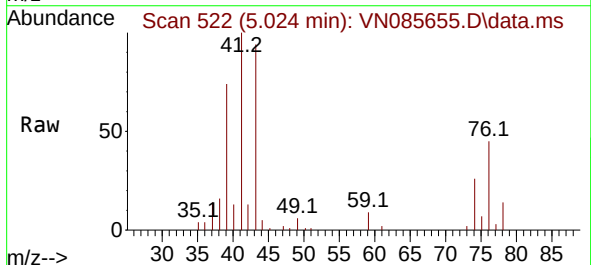
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

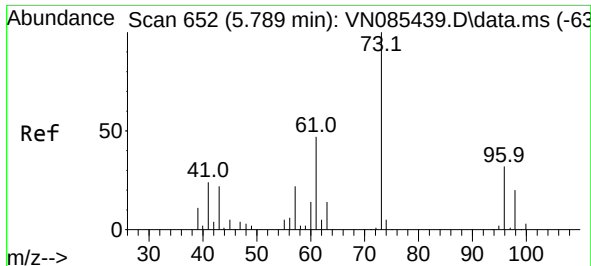
Tgt Ion: 76 Resp: 168991
Ion Ratio Lower Upper
76 100
78 8.9 6.9 10.3



#18
Methyl Acetate
Concen: 18.617 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 43 Resp: 73954
Ion Ratio Lower Upper
43 100
74 27.0 18.6 28.0

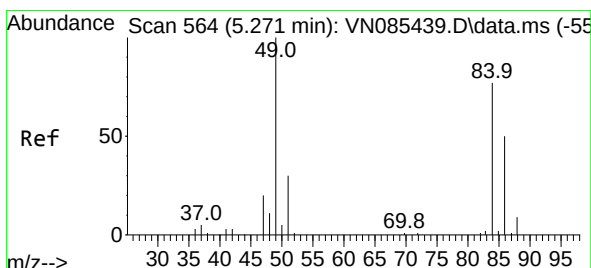
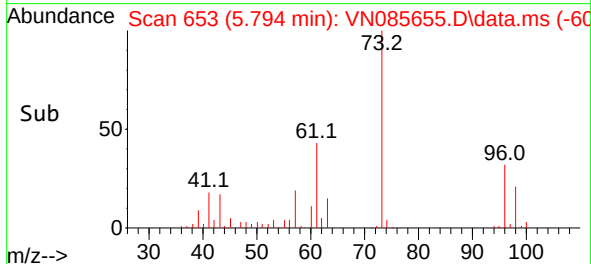
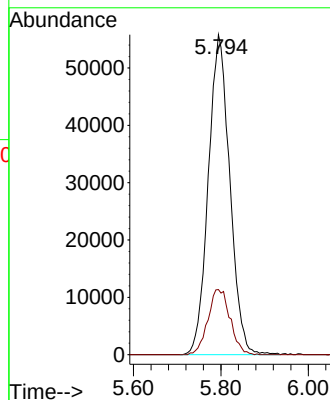
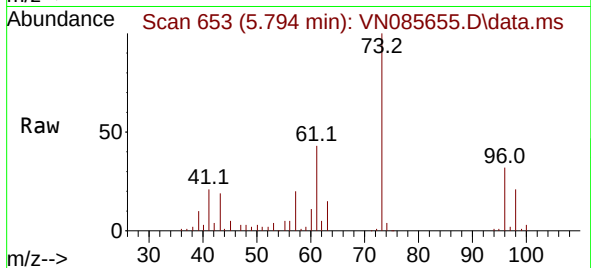




#19
Methyl tert-butyl Ether
Concen: 21.823 ug/l
RT: 5.794 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

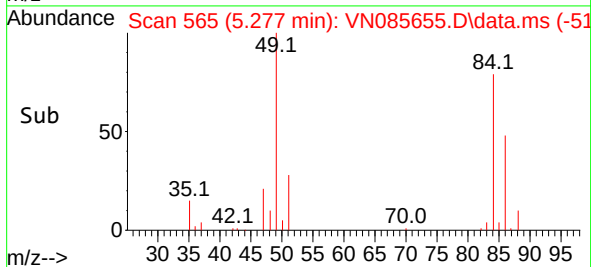
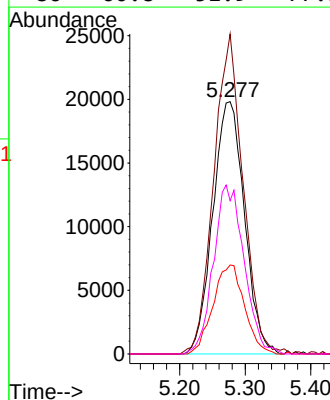
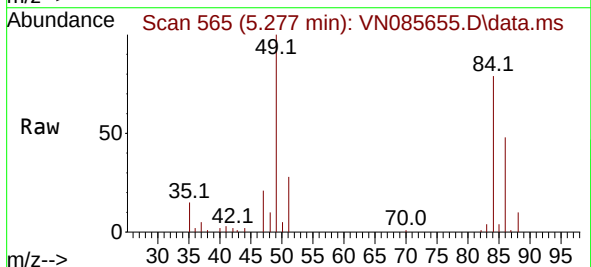
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

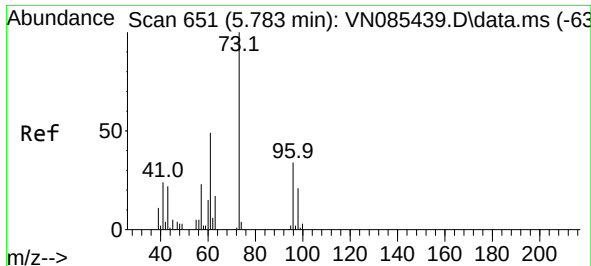
Tgt Ion: 73 Resp: 190486
Ion Ratio Lower Upper
73 100
57 20.3 17.8 26.8



#20
Methylene Chloride
Concen: 20.523 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 84 Resp: 66374
Ion Ratio Lower Upper
84 100
49 126.8 104.1 156.1
51 35.3 31.0 46.4
86 60.8 51.9 77.9

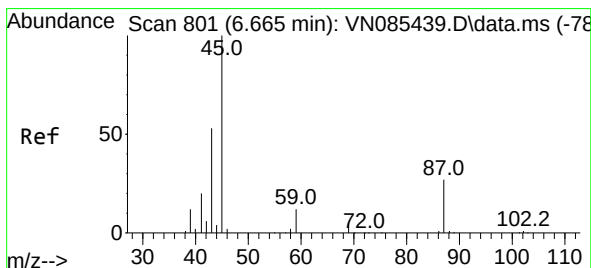
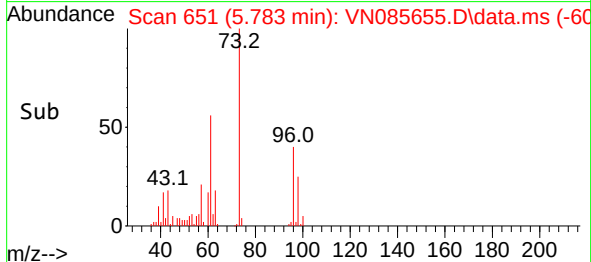
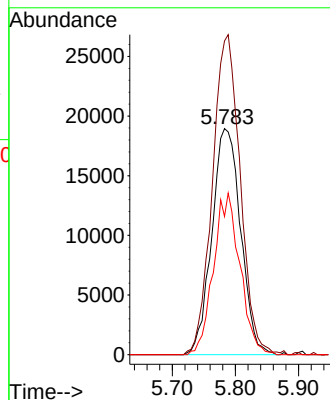
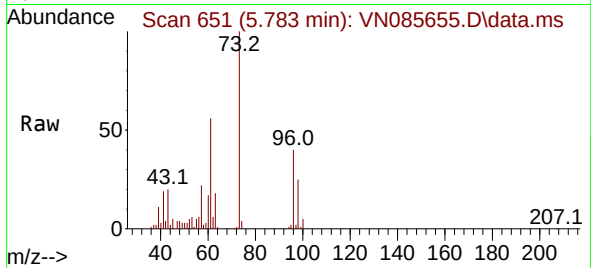




#21
trans-1,2-Dichloroethene
Concen: 20.870 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

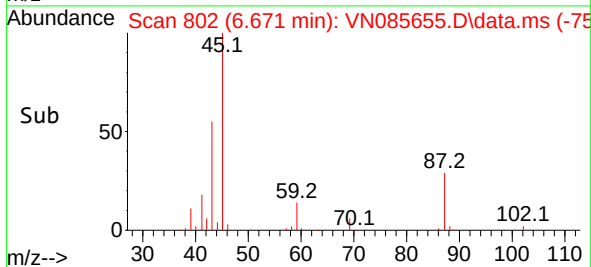
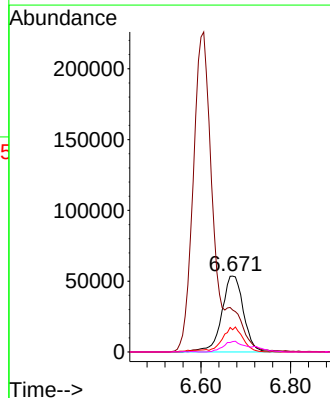
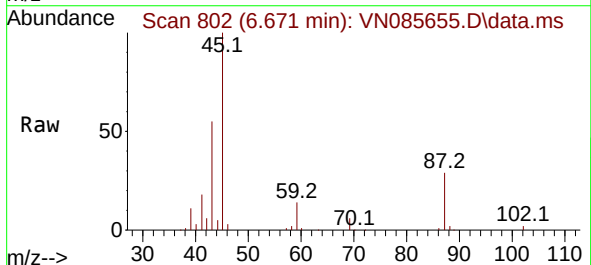
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

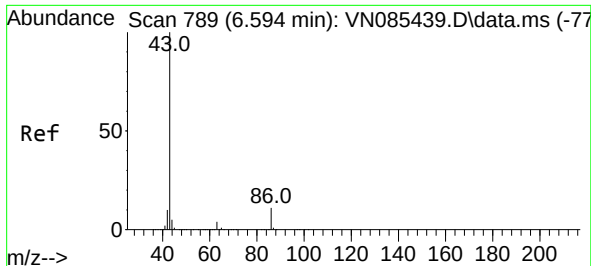
Tgt Ion: 96 Resp: 59956
Ion Ratio Lower Upper
96 100
61 138.8 115.7 173.5
98 61.2 49.8 74.8



#22
Diisopropyl ether
Concen: 18.581 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 45 Resp: 179895
Ion Ratio Lower Upper
45 100
43 53.7 45.0 67.6
87 29.4 21.8 32.8
59 13.4 10.2 15.2

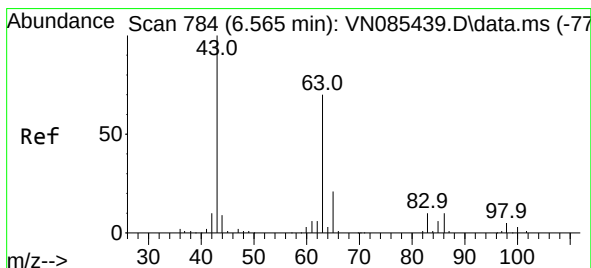
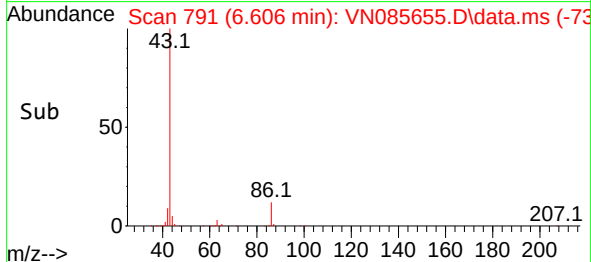
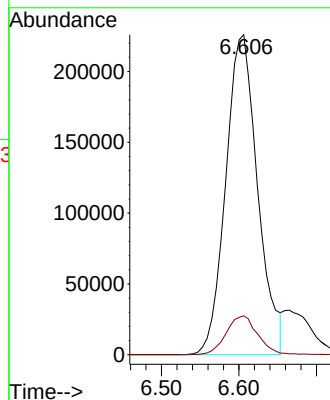
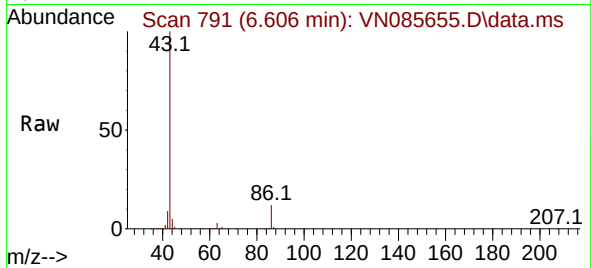




#23
 Vinyl Acetate
 Concen: 95.681 ug/l
 RT: 6.606 min Scan# 791
 Delta R.T. 0.012 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

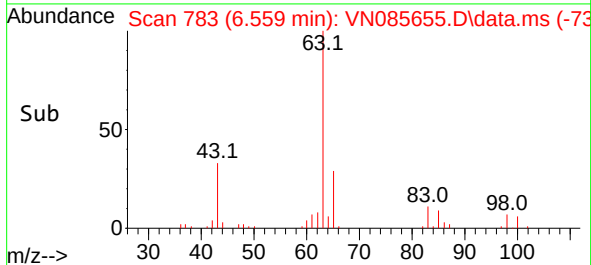
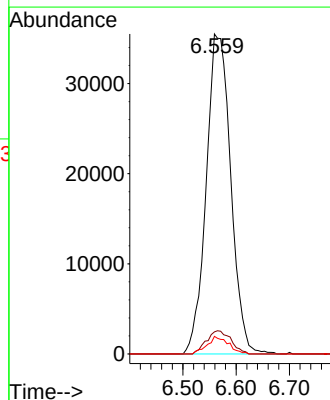
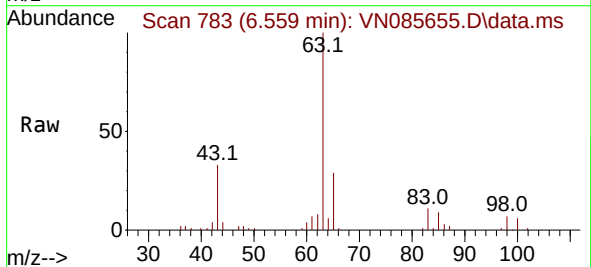
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

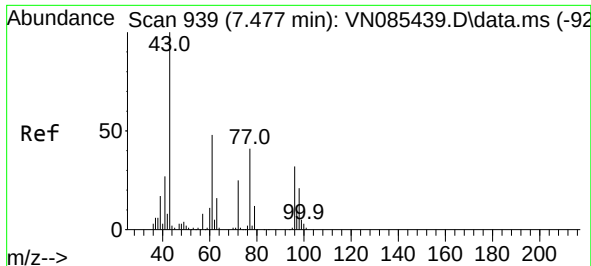
Tgt Ion: 43 Resp: 648302
 Ion Ratio Lower Upper
 43 100
 86 12.1 8.4 12.6



#24
 1,1-Dichloroethane
 Concen: 19.269 ug/l
 RT: 6.559 min Scan# 783
 Delta R.T. -0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

Tgt Ion: 63 Resp: 113758
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.3 9.8
 100 5.5 2.0 6.0

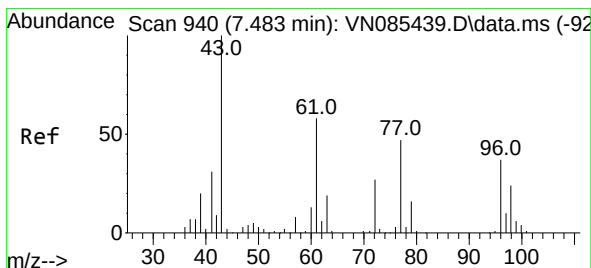
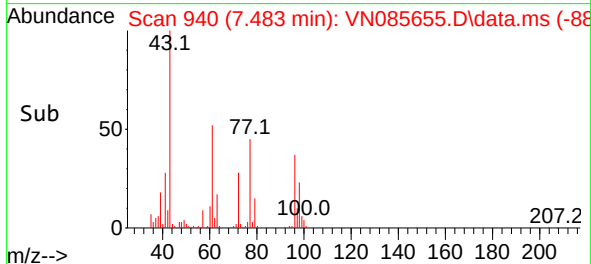
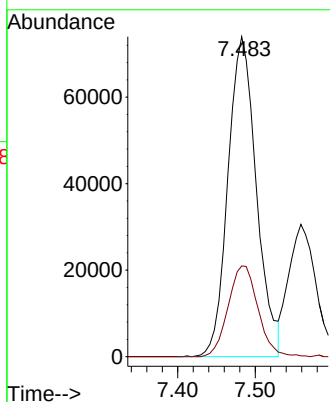
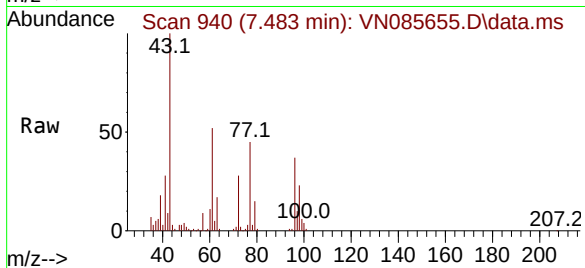




#25
2-Butanone
Concen: 98.494 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

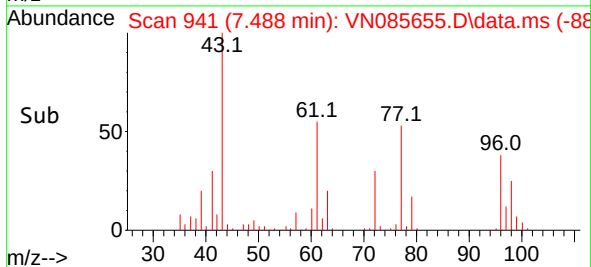
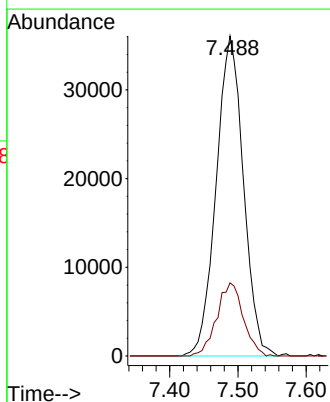
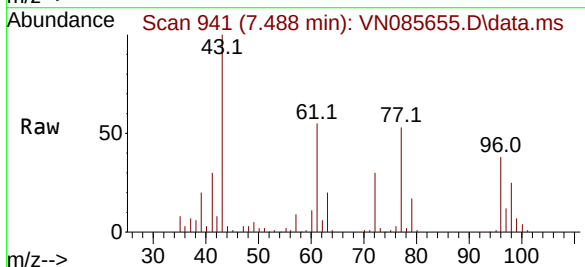
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

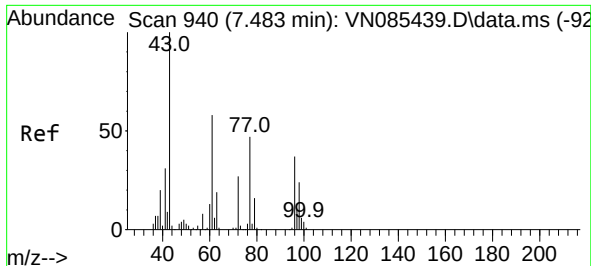
Tgt Ion: 43 Resp: 189350
Ion Ratio Lower Upper
43 100
72 28.3 20.2 30.4



#26
2,2-Dichloropropane
Concen: 20.981 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 77 Resp: 100142
Ion Ratio Lower Upper
77 100
97 22.2 10.7 32.1

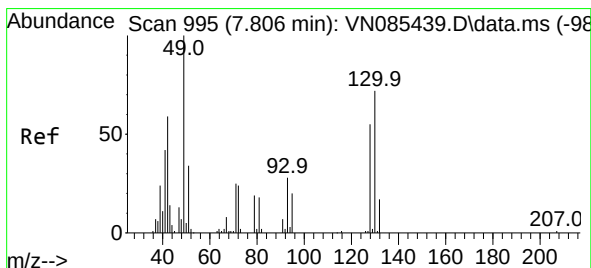
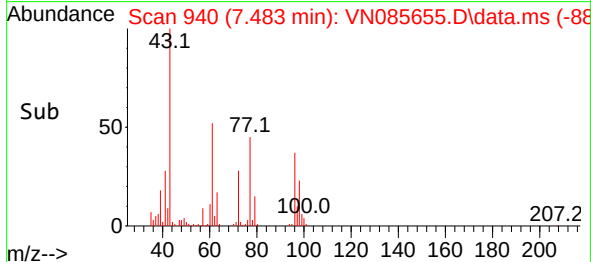
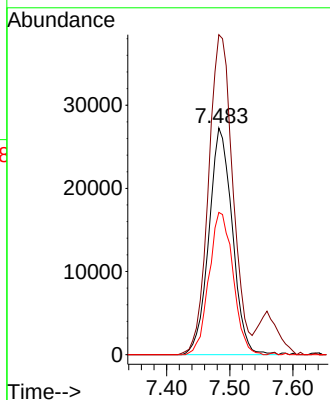
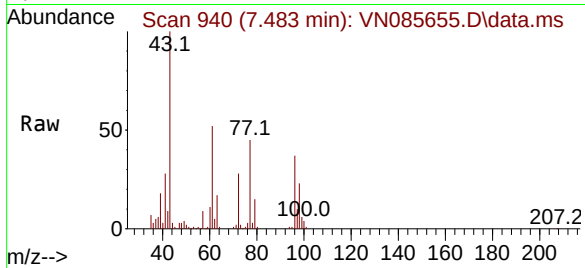




#27
 cis-1,2-Dichloroethene
 Concen: 20.772 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

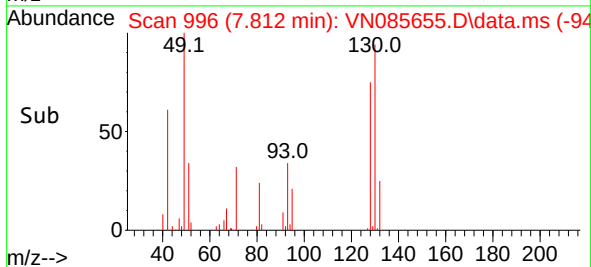
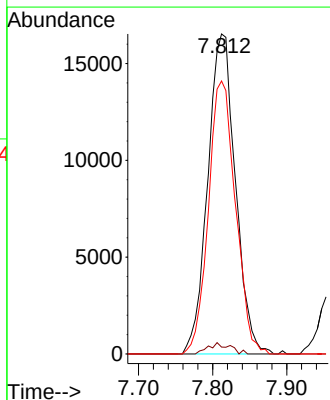
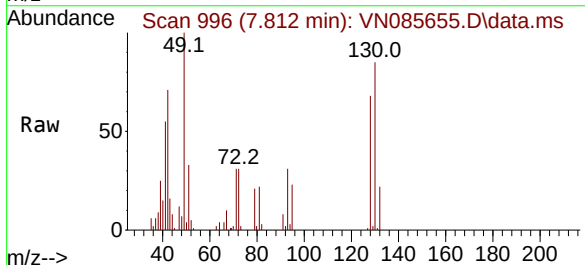
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

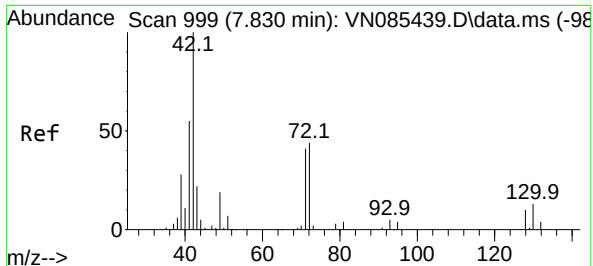
Tgt Ion: 96 Resp: 70286
 Ion Ratio Lower Upper
 96 100
 61 146.4 0.0 311.8
 98 64.4 0.0 126.0



#28
 Bromochloromethane
 Concen: 15.618 ug/l
 RT: 7.812 min Scan# 996
 Delta R.T. 0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

Tgt Ion: 49 Resp: 42897
 Ion Ratio Lower Upper
 49 100
 129 2.8 0.0 4.4
 130 83.5 55.0 82.4#





#29

Tetrahydrofuran

Concen: 101.037 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

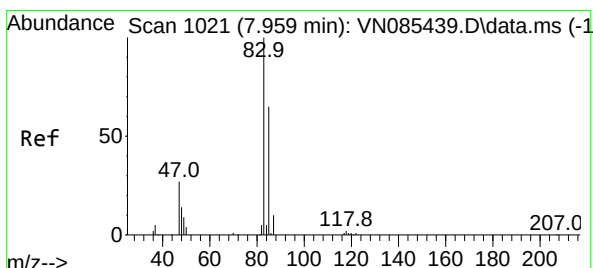
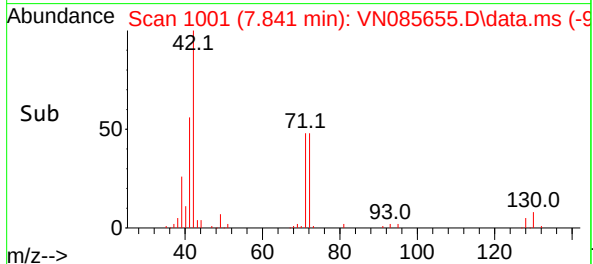
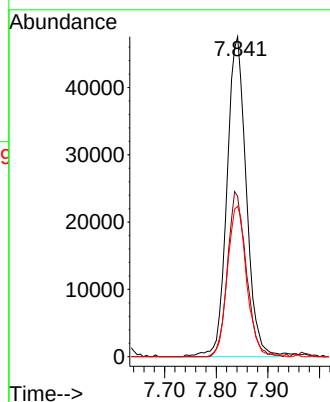
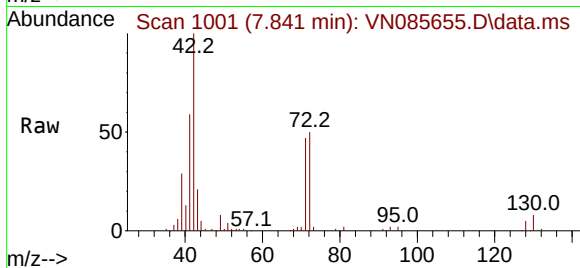
Tgt Ion: 42 Resp: 123148

Ion Ratio Lower Upper

42 100

72 50.3 34.2 51.2

71 47.2 32.5 48.7



#30

Chloroform

Concen: 19.678 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085655.D

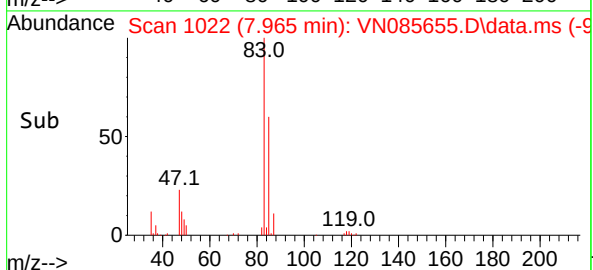
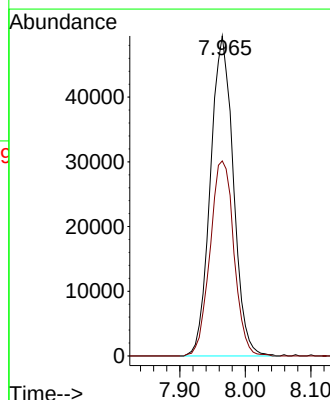
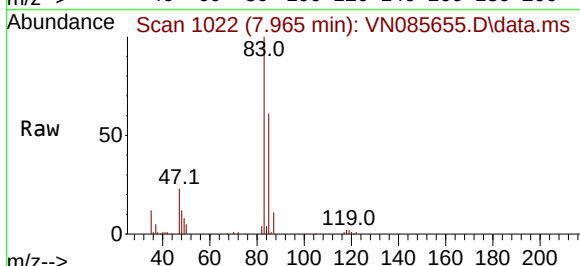
Acq: 04 Feb 2025 16:37

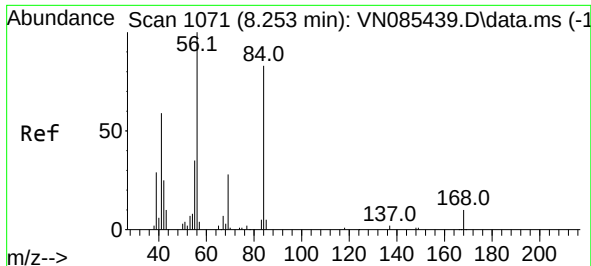
Tgt Ion: 83 Resp: 120068

Ion Ratio Lower Upper

83 100

85 61.0 51.8 77.6

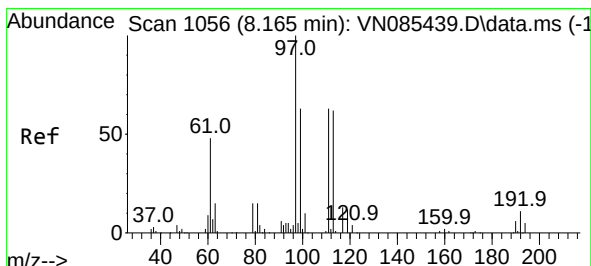
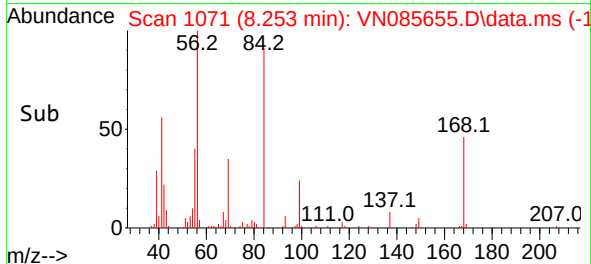
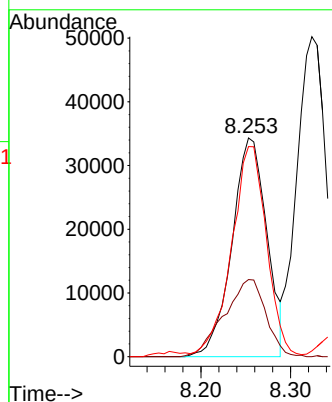
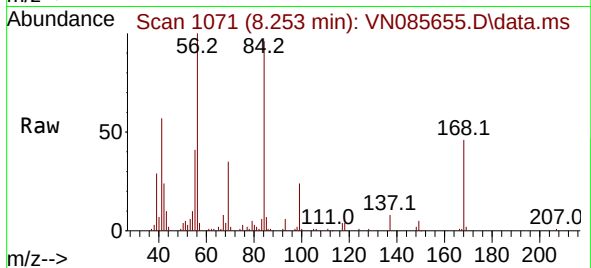




#31
Cyclohexane
Concen: 18.077 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

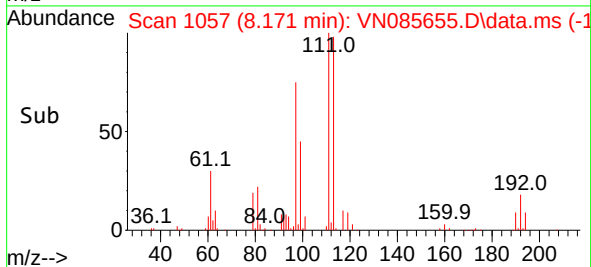
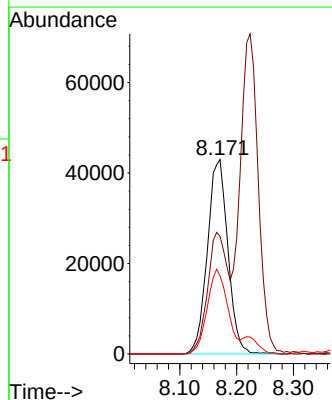
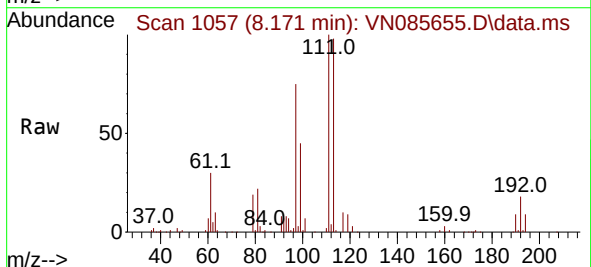
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

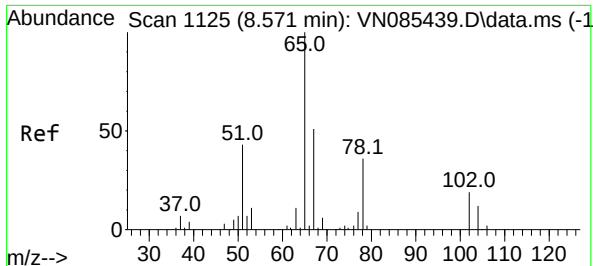
Tgt Ion: 56 Resp: 92756
Ion Ratio Lower Upper
56 100
69 35.3 22.2 33.4#
84 94.6 66.4 99.6



#32
1,1,1-Trichloroethane
Concen: 20.090 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 97 Resp: 107522
Ion Ratio Lower Upper
97 100
99 60.2 49.8 74.6
61 44.0 41.4 62.2





#33

1,2-Dichloroethane-d4

Concen: 42.743 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

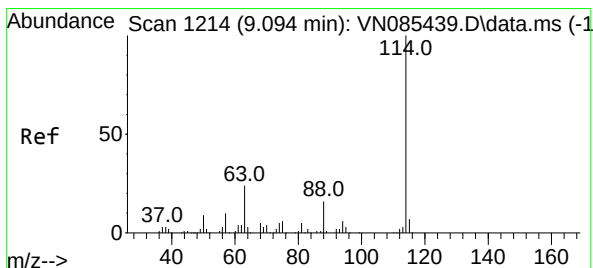
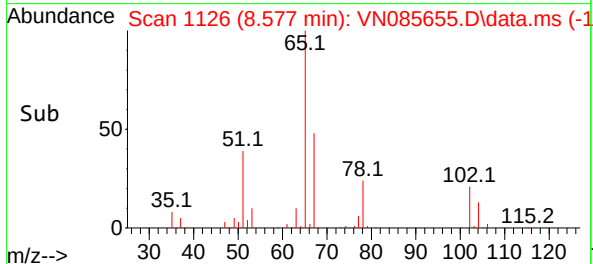
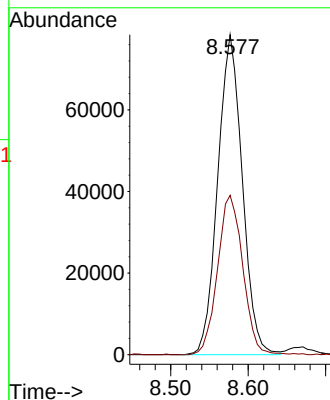
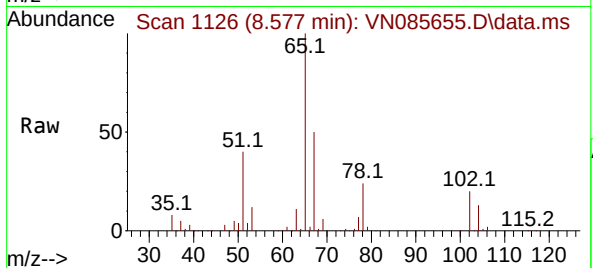
VN0204WBSD02

Tgt Ion: 65 Resp: 172816

Ion Ratio Lower Upper

65 100

67 51.1 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

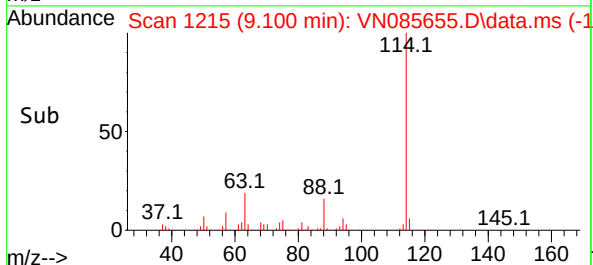
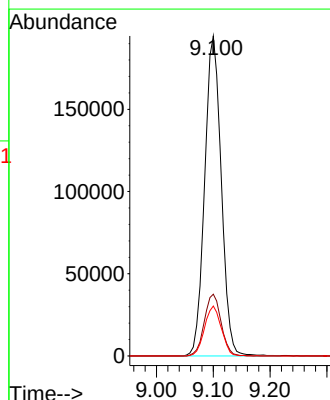
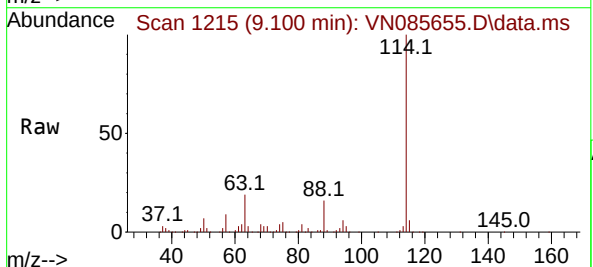
Tgt Ion: 114 Resp: 394206

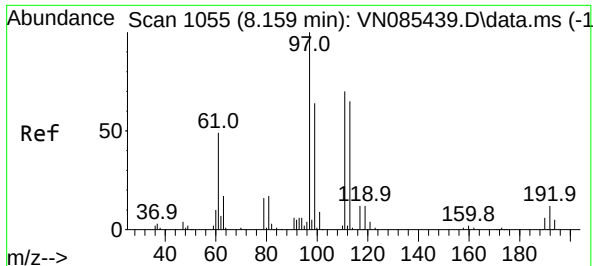
Ion Ratio Lower Upper

114 100

63 19.3 0.0 47.6

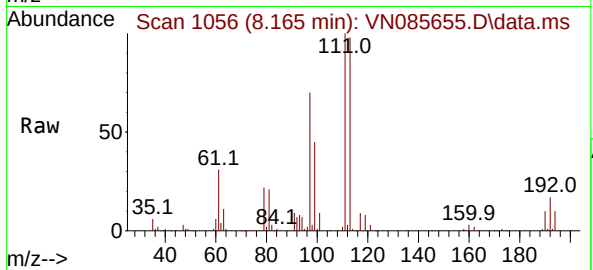
88 15.6 0.0 32.6



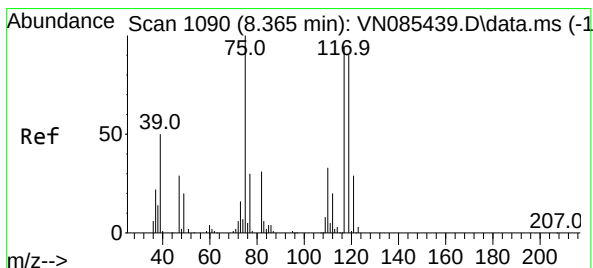
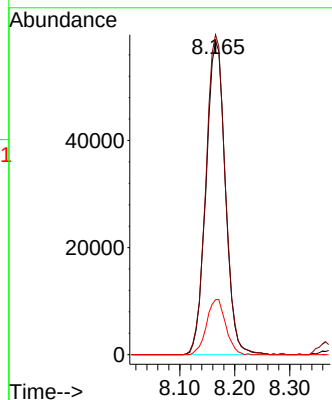
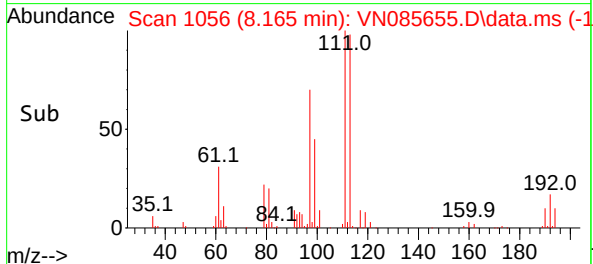


#35
Dibromofluoromethane
Concen: 52.207 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

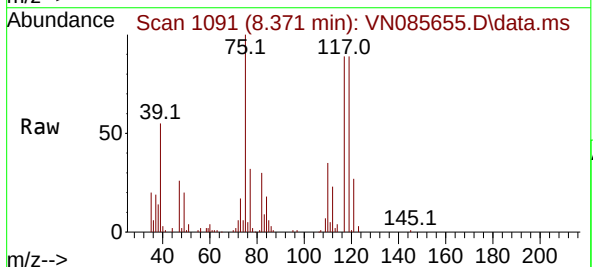
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02



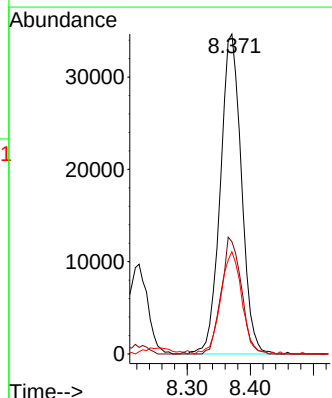
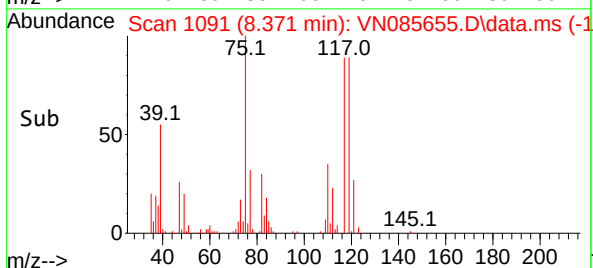
Tgt Ion:113 Resp: 142777
Ion Ratio Lower Upper
113 100
111 102.4 82.7 124.1
192 17.5 14.3 21.5

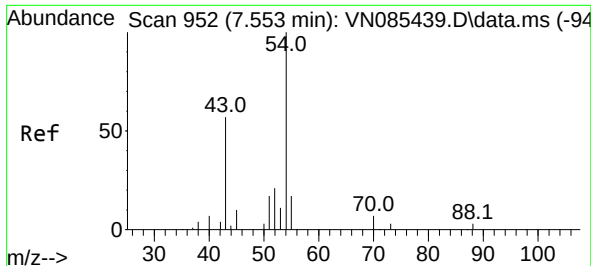


#36
1,1-Dichloropropene
Concen: 20.905 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37



Tgt Ion: 75 Resp: 80237
Ion Ratio Lower Upper
75 100
110 34.8 16.5 49.5
77 32.1 24.4 36.6





#37

Ethyl Acetate

Concen: 19.538 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

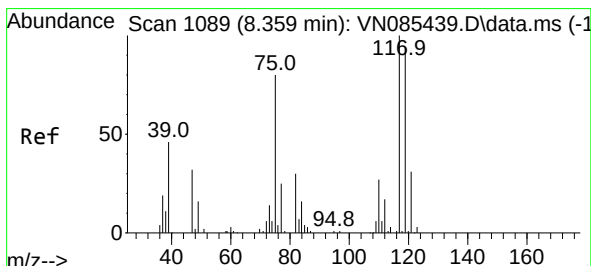
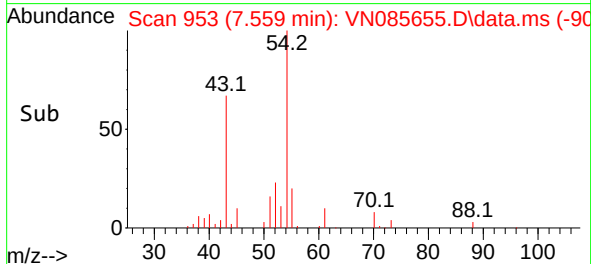
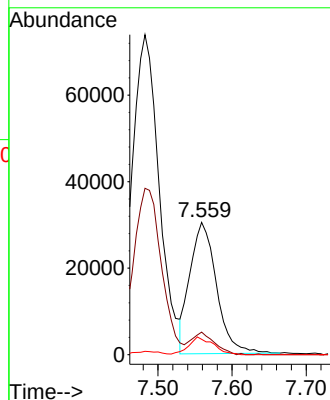
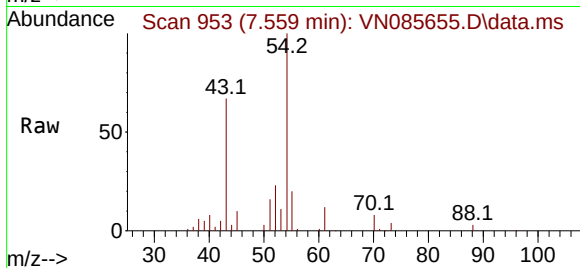
Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

Tgt Ion: 43	Resp: 75695
Ion Ratio	Lower Upper
43	100
61	14.9 10.9 16.3
70	12.4 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 21.250 ug/l

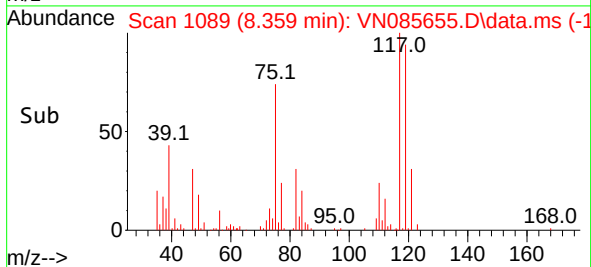
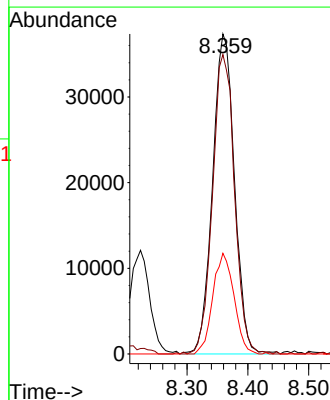
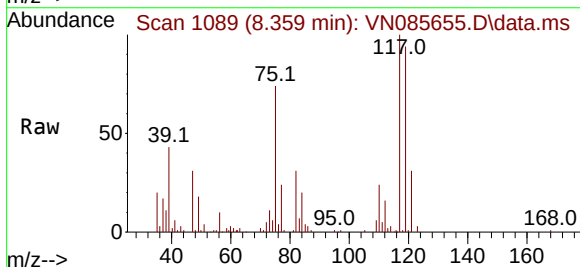
RT: 8.359 min Scan# 1089

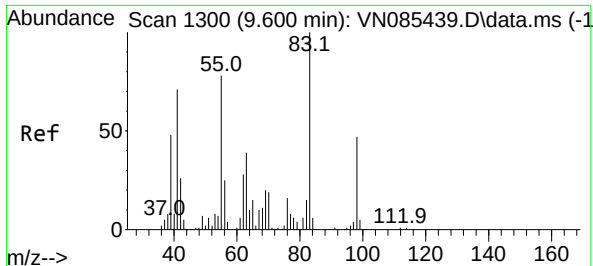
Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Tgt Ion: 117	Resp: 93378
Ion Ratio	Lower Upper
117	100
119	93.6 75.4 113.2
121	31.4 24.6 37.0





#39

Methylcyclohexane

Concen: 20.720 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

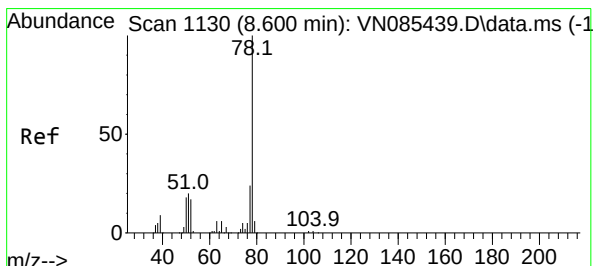
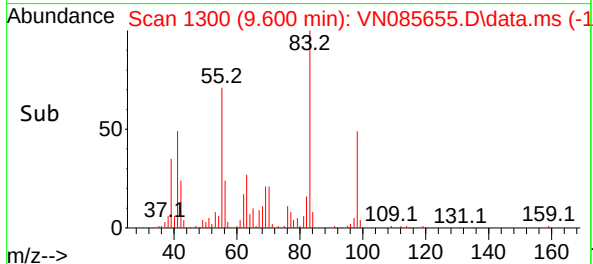
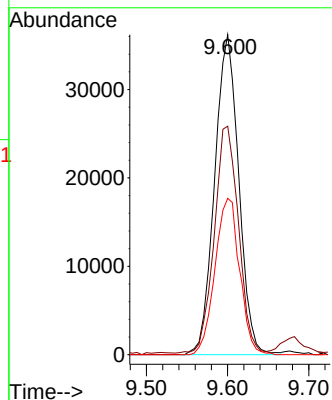
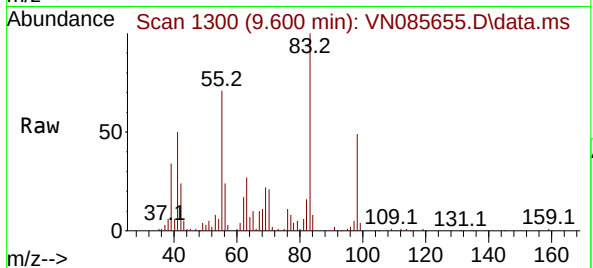
Tgt Ion: 83 Resp: 74735

Ion Ratio Lower Upper

83 100

55 70.8 62.6 94.0

98 48.8 37.7 56.5



#40

Benzene

Concen: 22.223 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085655.D

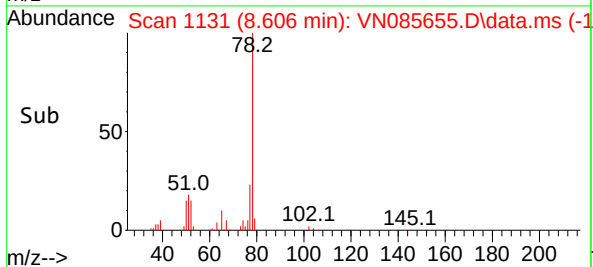
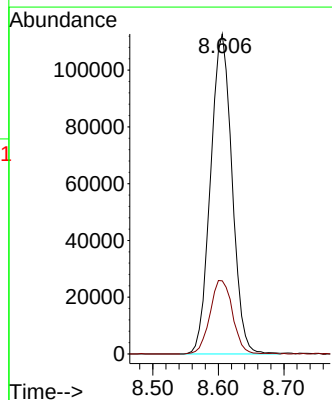
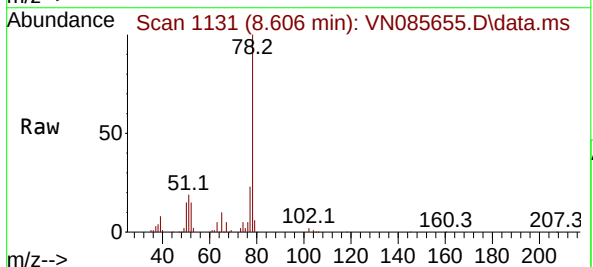
Acq: 04 Feb 2025 16:37

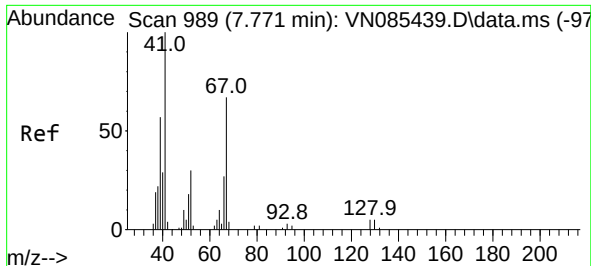
Tgt Ion: 78 Resp: 256293

Ion Ratio Lower Upper

78 100

77 22.9 19.0 28.6

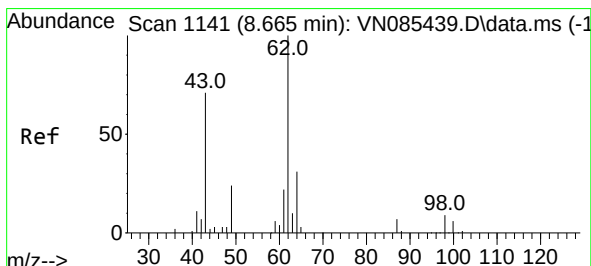
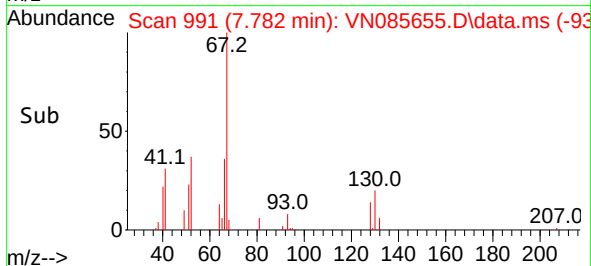
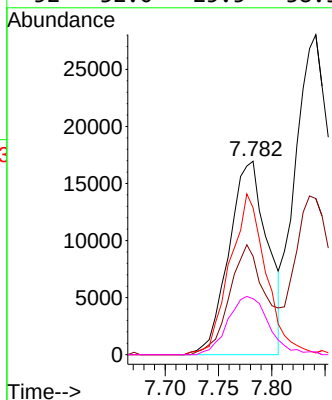
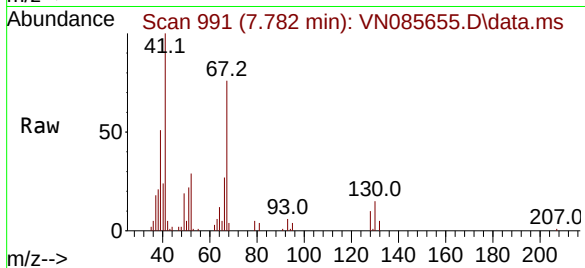




#41
Methacrylonitrile
Concen: 21.201 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.012 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

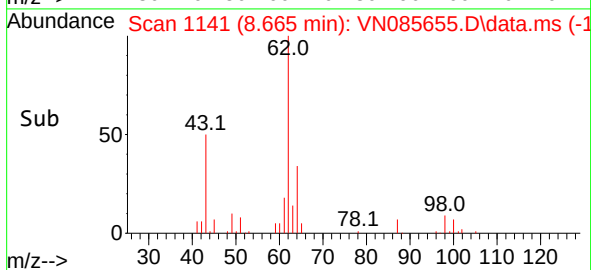
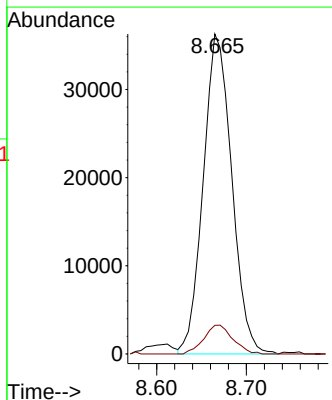
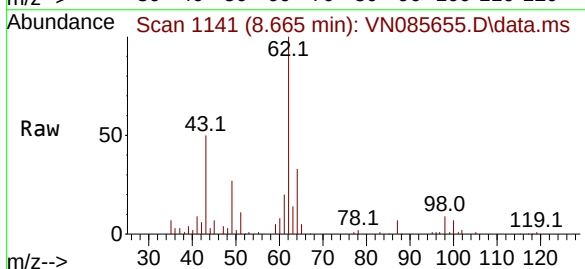
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

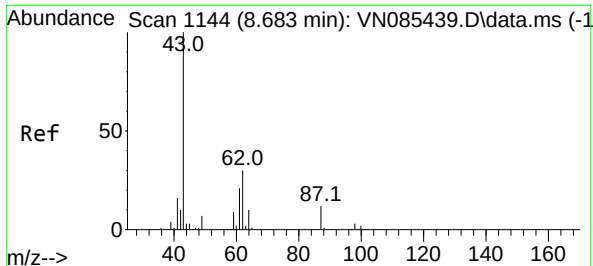
Tgt Ion:	41	Resp:	42732
Ion	Ratio	Lower	Upper
41	100		
39	53.0	46.0	69.0
67	78.0	57.4	86.2
52	32.0	25.5	38.3



#42
1,2-Dichloroethane
Concen: 18.444 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:	62	Resp:	80112
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0

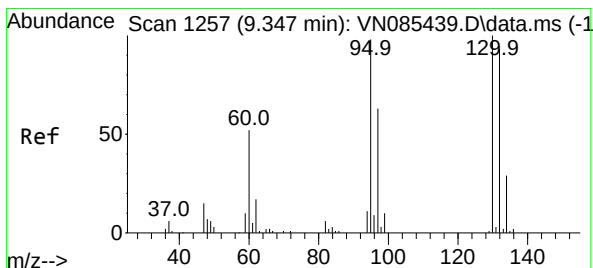
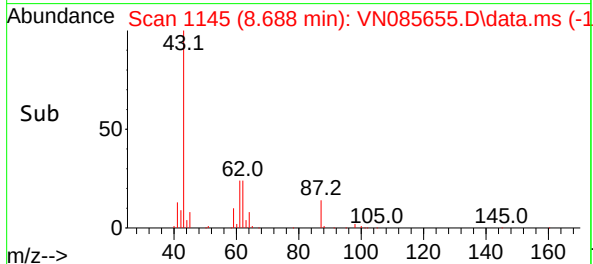
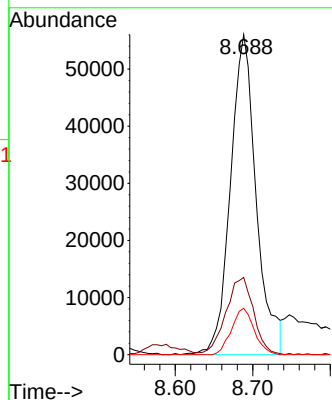
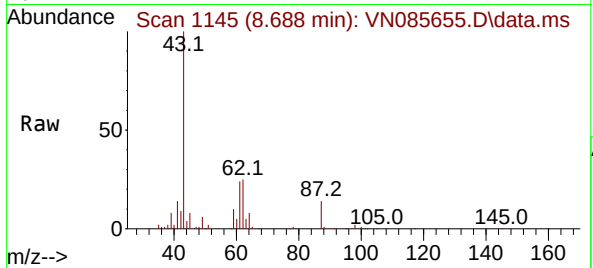




#43
Isopropyl Acetate
Concen: 20.920 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

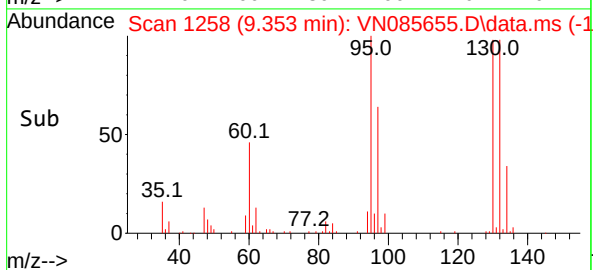
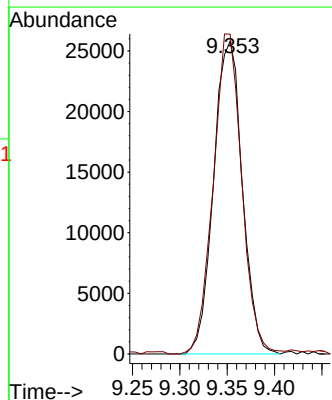
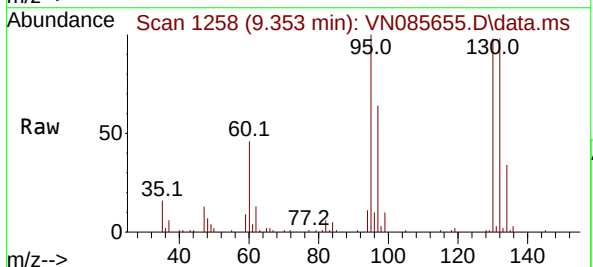
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

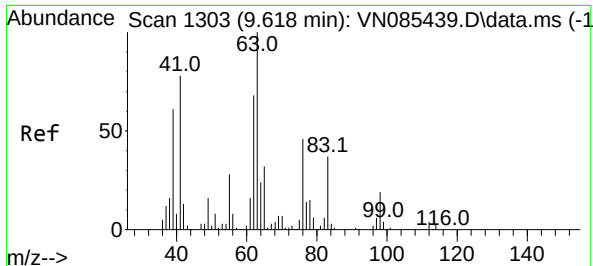
Tgt Ion: 43 Resp: 129867
Ion Ratio Lower Upper
43 100
61 25.9 20.7 31.1
87 12.7 9.8 14.8



#44
Trichloroethene
Concen: 20.291 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 130 Resp: 54471
Ion Ratio Lower Upper
130 100
95 102.3 0.0 195.8





#45

1,2-Dichloropropane

Concen: 18.507 ug/l

RT: 9.618 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

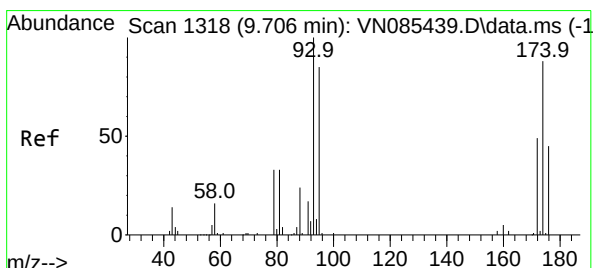
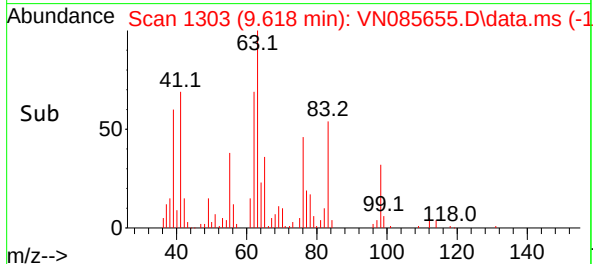
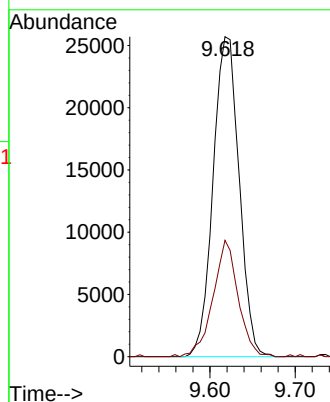
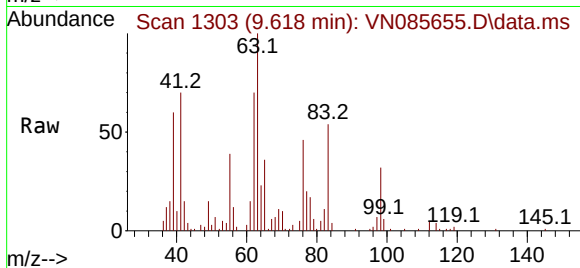
VN0204WBSD02

Tgt Ion: 63 Resp: 54518

Ion Ratio Lower Upper

63 100

65 36.3 25.6 38.4



#46

Dibromomethane

Concen: 19.810 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

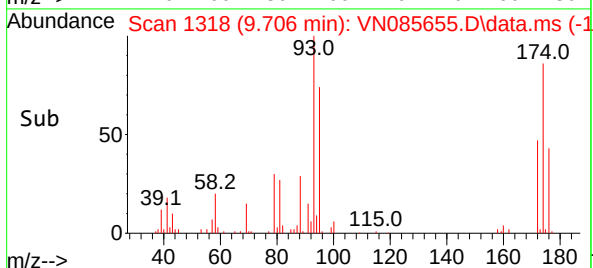
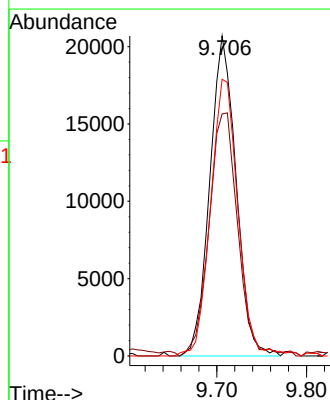
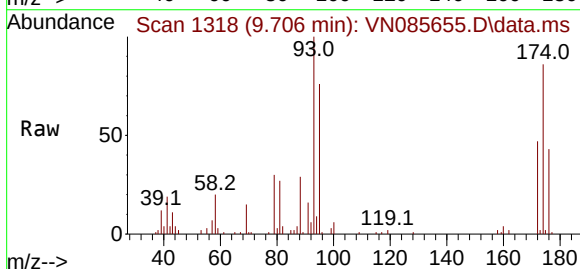
Tgt Ion: 93 Resp: 42107

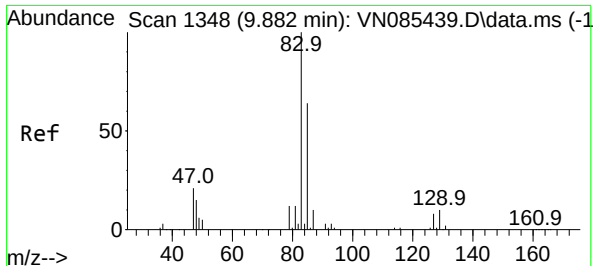
Ion Ratio Lower Upper

93 100

95 82.9 64.7 97.1

174 90.2 69.0 103.4

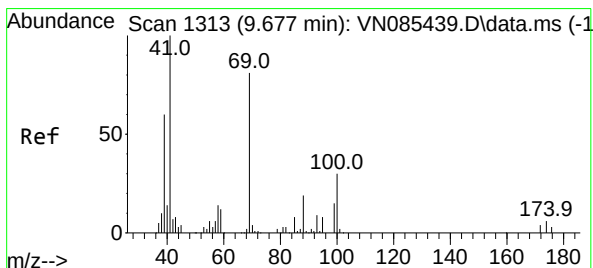
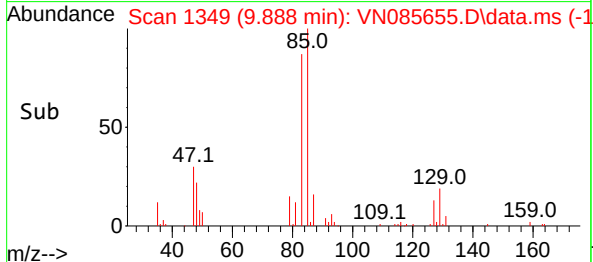
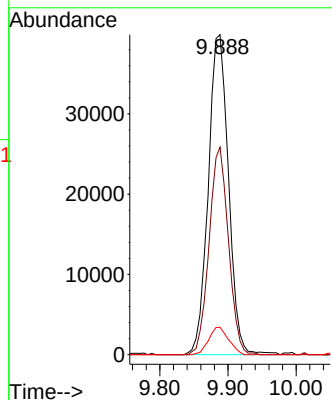
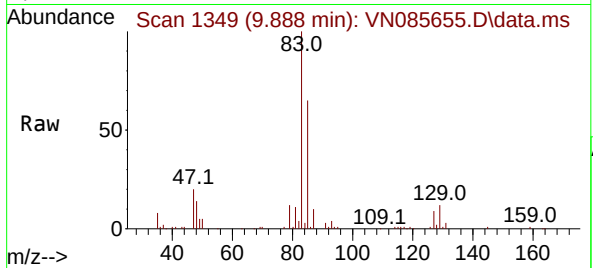




#47
Bromodichloromethane
Concen: 19.003 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

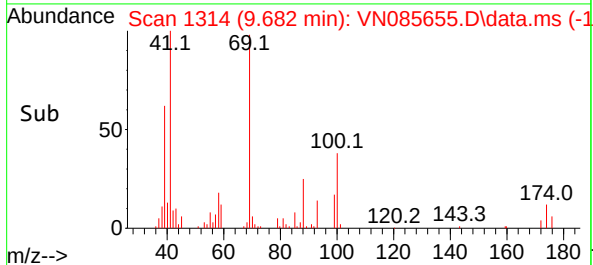
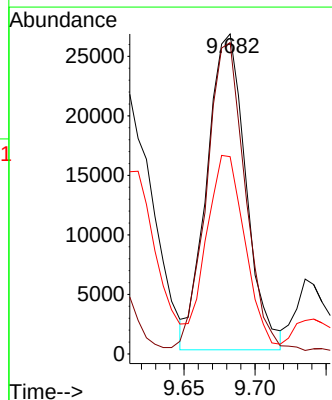
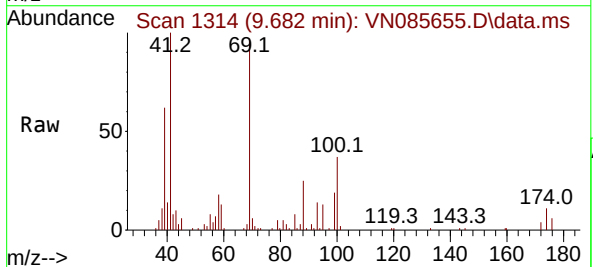
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

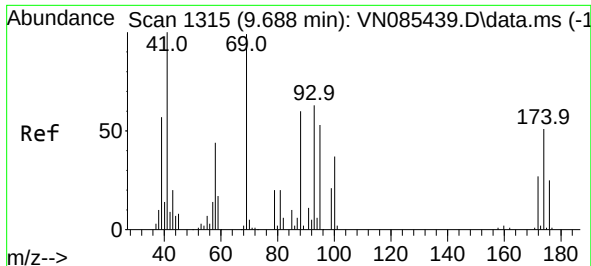
Tgt Ion: 83 Resp: 82292
Ion Ratio Lower Upper
83 100
85 64.8 51.2 76.8
127 8.5 6.5 9.7



#48
Methyl methacrylate
Concen: 18.201 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. 0.005 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 41 Resp: 50846
Ion Ratio Lower Upper
41 100
69 101.0 64.7 97.1#
39 63.3 49.0 73.6





#49

1,4-Dioxane

Concen: 421.835 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

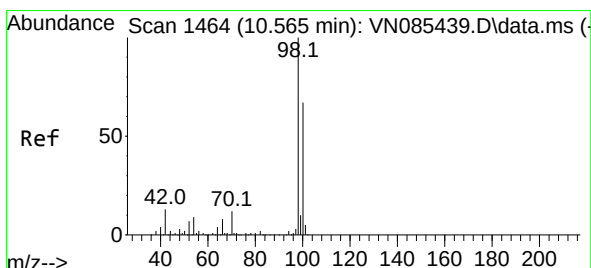
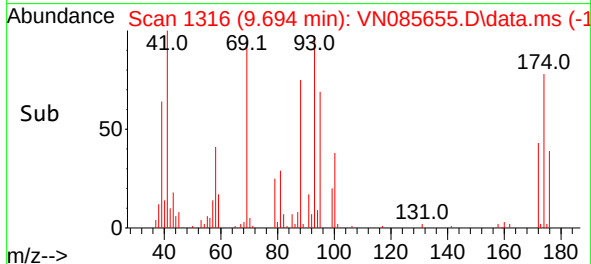
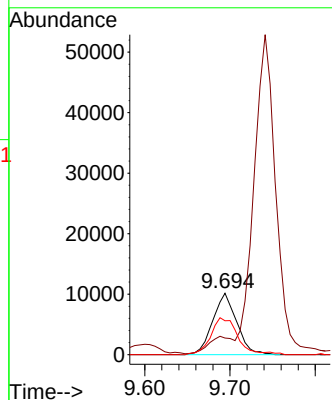
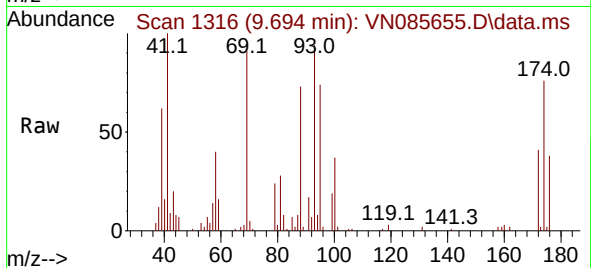
Tgt Ion: 88 Resp: 19845

Ion Ratio Lower Upper

88 100

43 29.0 26.6 39.8

58 67.9 59.5 89.3



#50

Toluene-d8

Concen: 48.017 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085655.D

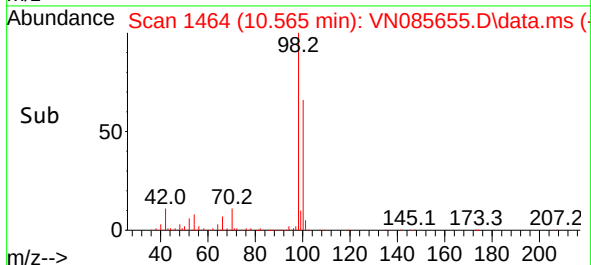
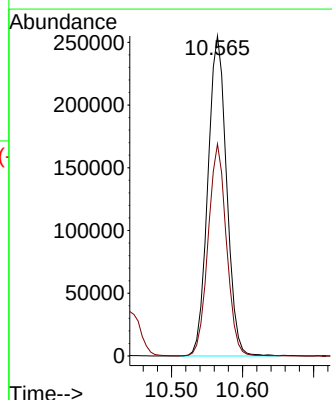
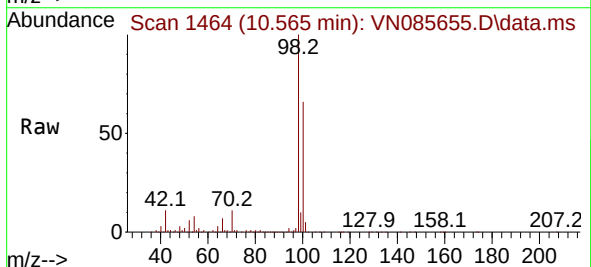
Acq: 04 Feb 2025 16:37

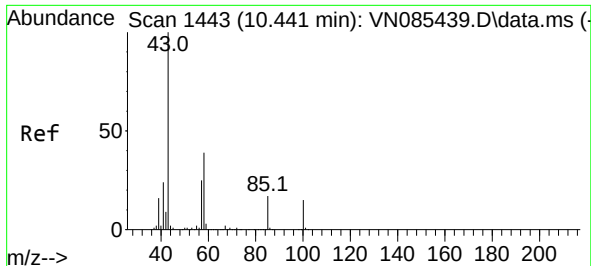
Tgt Ion: 98 Resp: 466570

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.4

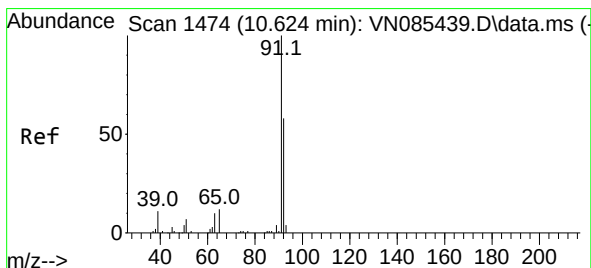
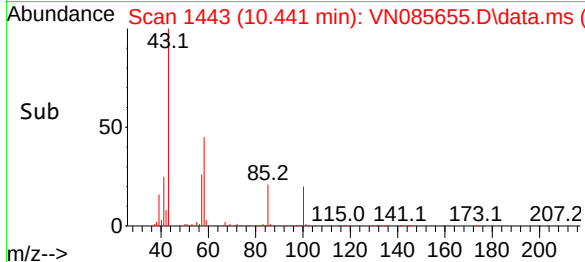
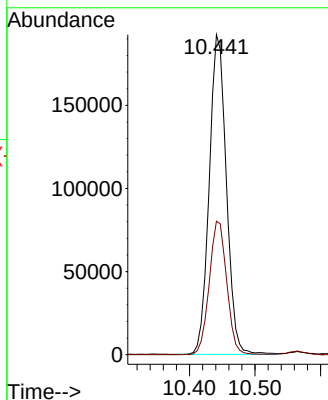
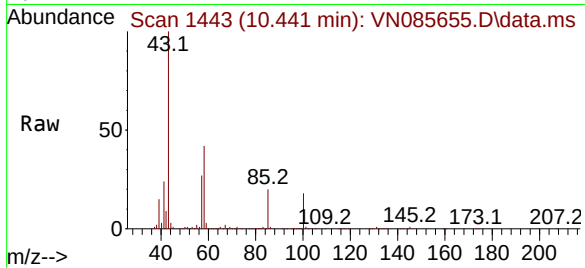




#51
4-Methyl-2-Pentanone
Concen: 96.926 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

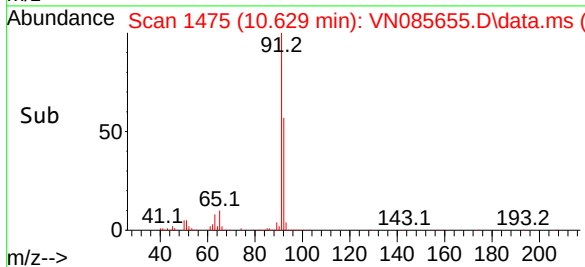
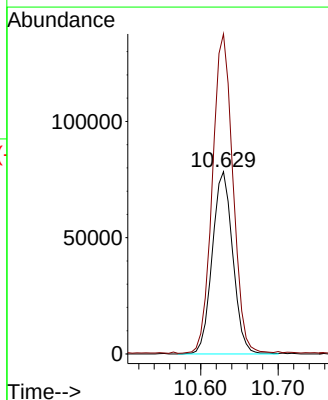
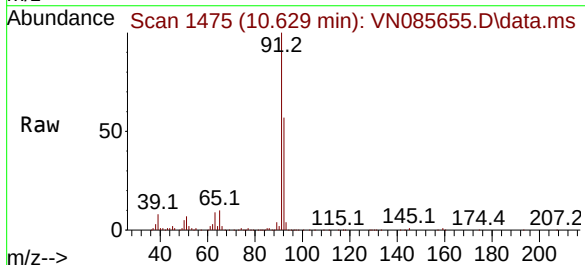
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

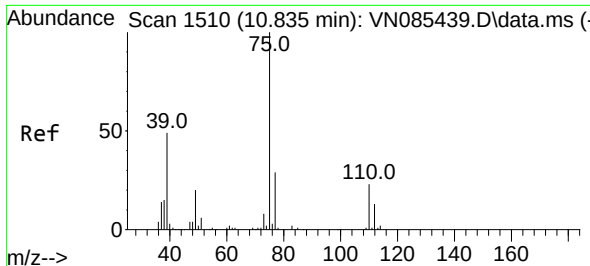
Tgt Ion: 43 Resp: 349156
Ion Ratio Lower Upper
43 100
58 42.6 30.5 45.7



#52
Toluene
Concen: 21.533 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 92 Resp: 143888
Ion Ratio Lower Upper
92 100
91 175.3 139.2 208.8

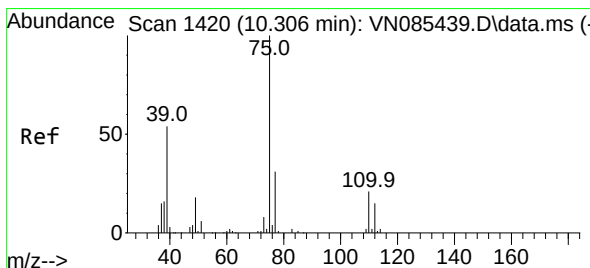
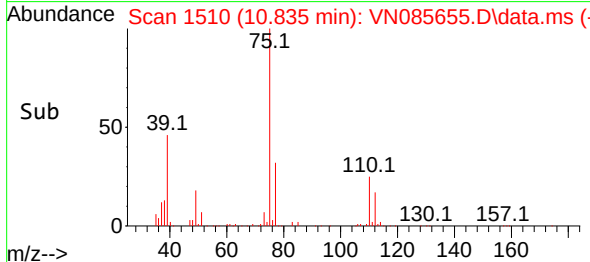
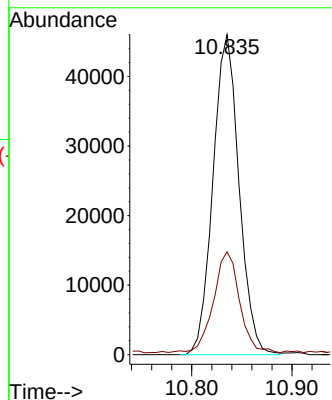
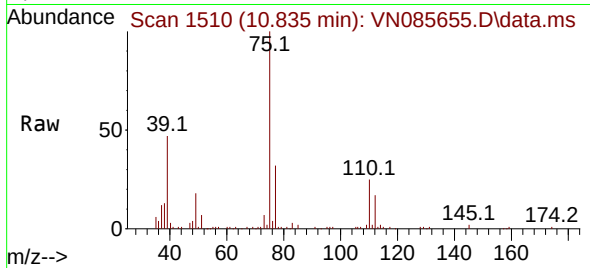




#53
t-1,3-Dichloropropene
Concen: 20.270 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

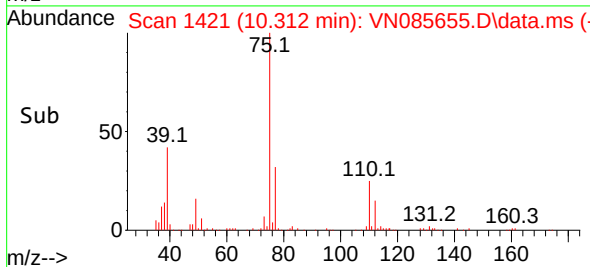
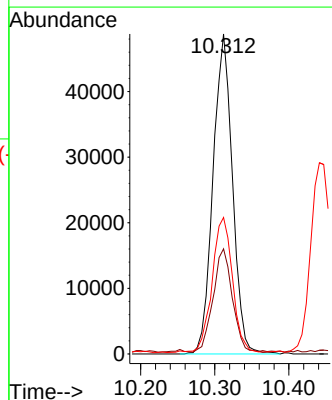
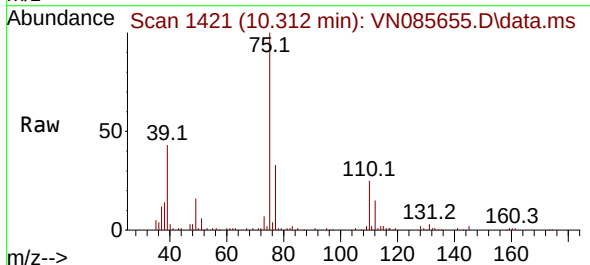
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

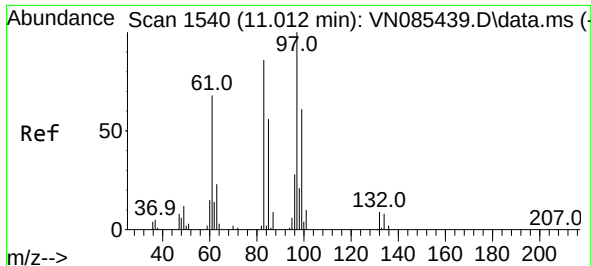
Tgt Ion: 75 Resp: 82951
Ion Ratio Lower Upper
75 100
77 31.5 23.5 35.3



#54
cis-1,3-Dichloropropene
Concen: 20.329 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 75 Resp: 88864
Ion Ratio Lower Upper
75 100
77 32.0 25.0 37.4
39 41.7 43.1 64.7#

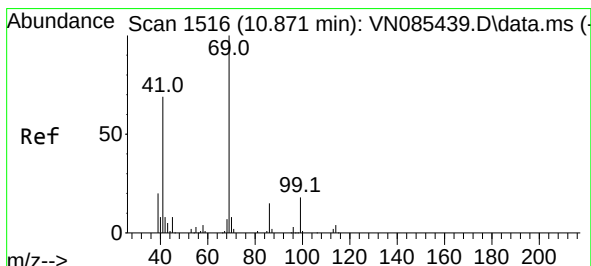
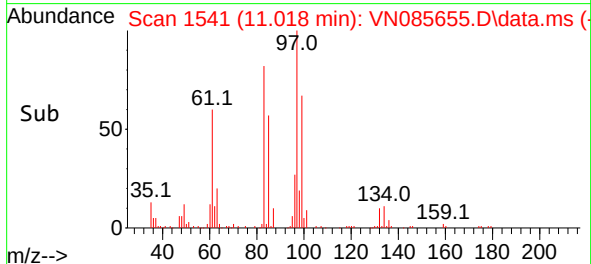
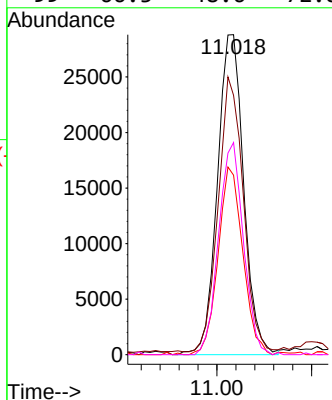
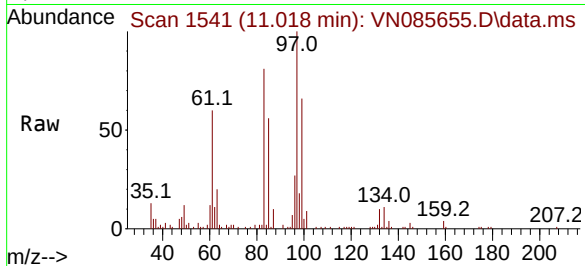




#55
1,1,2-Trichloroethane
Concen: 21.009 ug/l
RT: 11.018 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

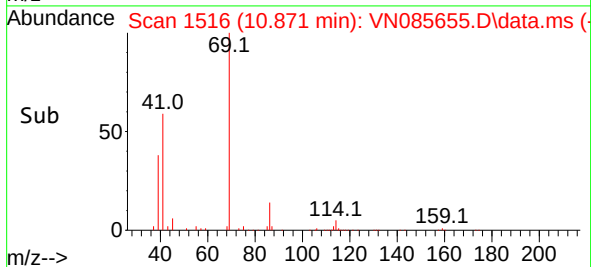
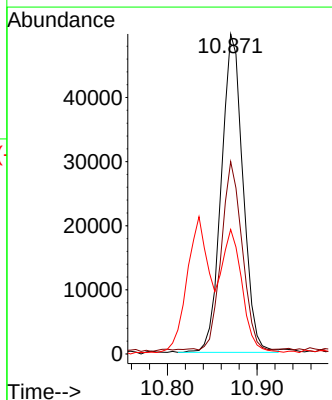
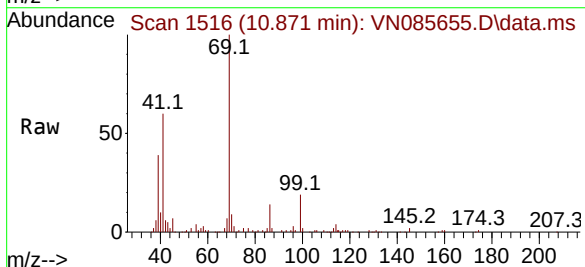
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

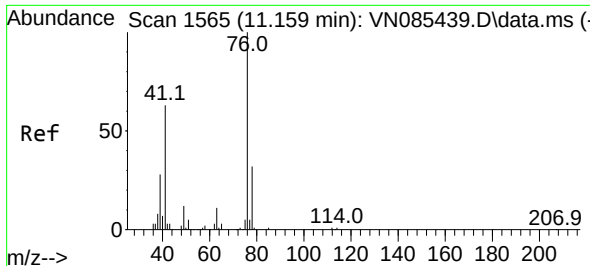
Tgt Ion: 97	Resp: 55559
Ion Ratio	Lower Upper
97 100	
83 79.8	69.0 103.6
85 55.6	44.6 66.8
99 66.3	48.6 72.8



#56
Ethyl methacrylate
Concen: 19.891 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 69	Resp: 83221
Ion Ratio	Lower Upper
69 100	
41 56.3	54.6 82.0
39 36.8	32.4 48.6





#57

1,3-Dichloropropane

Concen: 20.265 ug/l

RT: 11.165 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

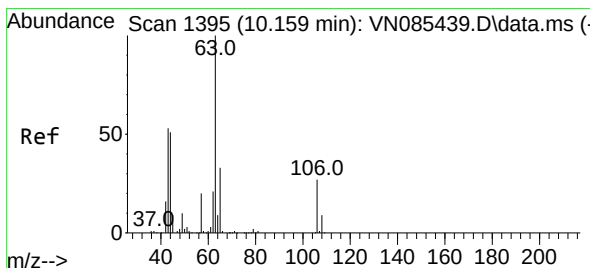
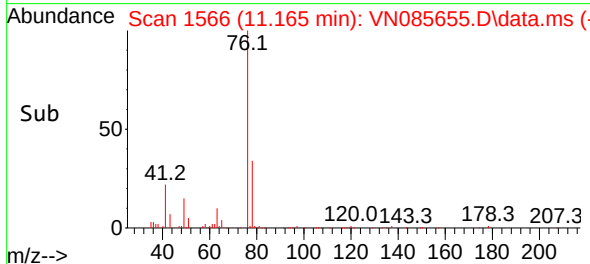
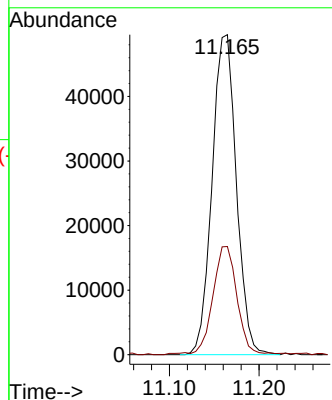
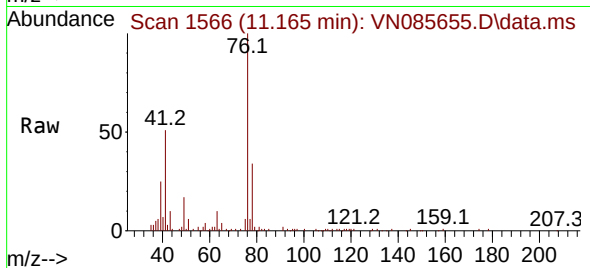
VN0204WBSD02

Tgt Ion: 76 Resp: 93182

Ion Ratio Lower Upper

76 100

78 33.9 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 68.367 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085655.D

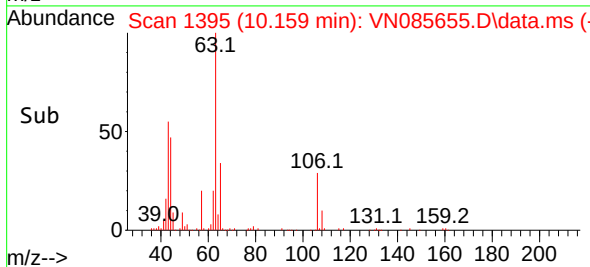
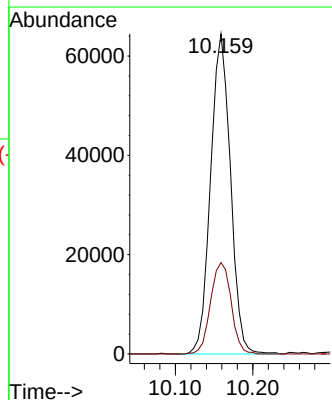
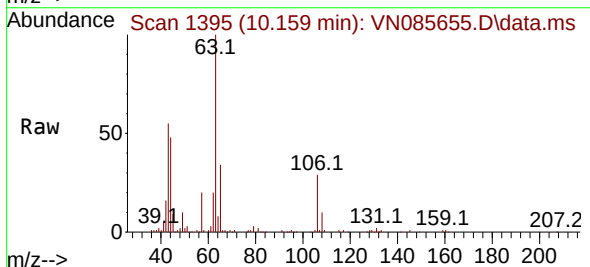
Acq: 04 Feb 2025 16:37

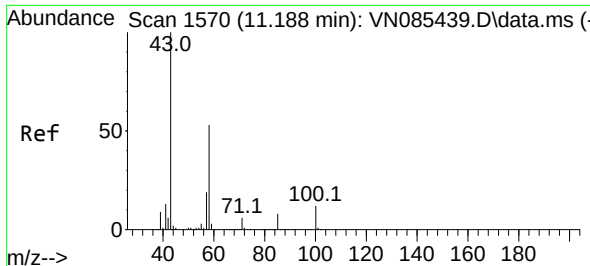
Tgt Ion: 63 Resp: 114733

Ion Ratio Lower Upper

63 100

106 29.5 21.6 32.4

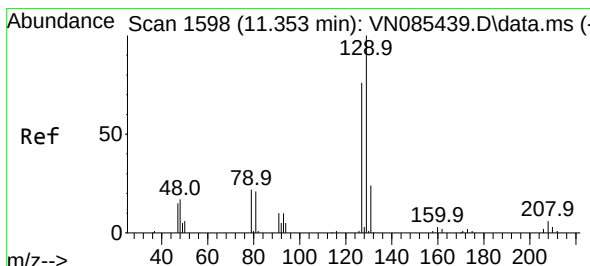
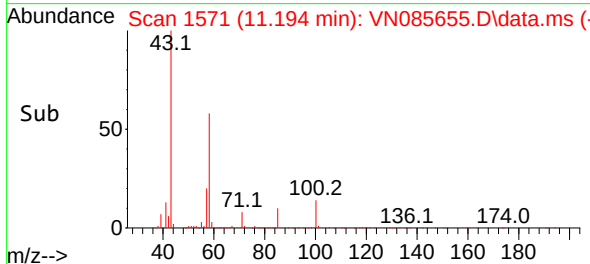
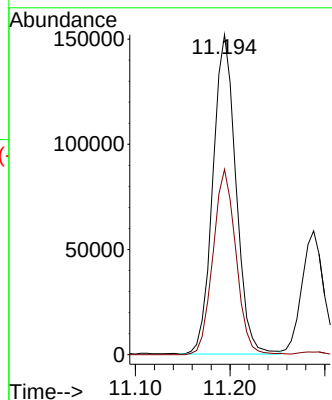
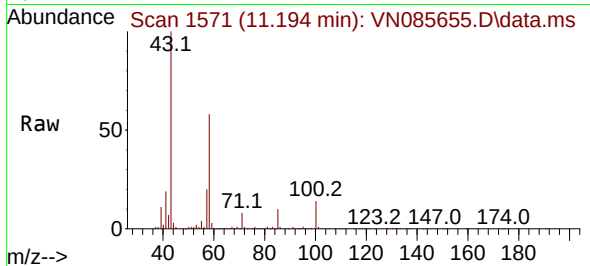




#59
2-Hexanone
Concen: 101.116 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

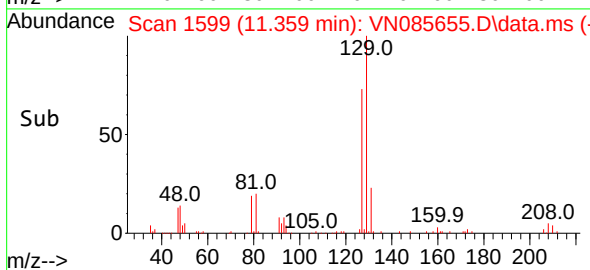
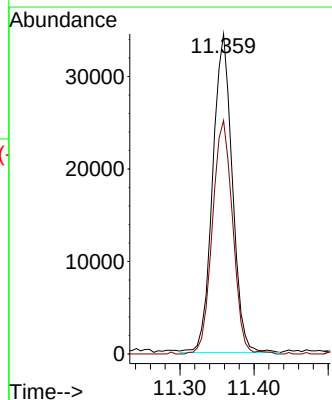
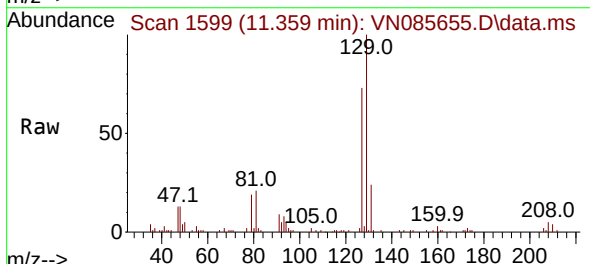
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

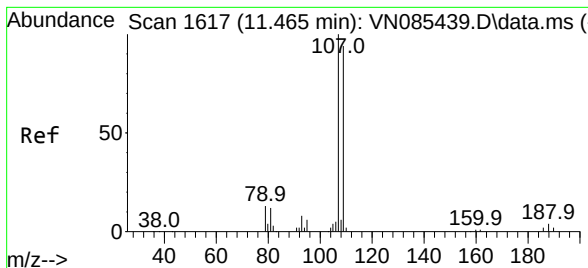
Tgt Ion: 43 Resp: 256296
Ion Ratio Lower Upper
43 100
58 57.8 26.2 78.6



#60
Dibromochloromethane
Concen: 19.818 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 129 Resp: 63273
Ion Ratio Lower Upper
129 100
127 75.9 38.6 115.8

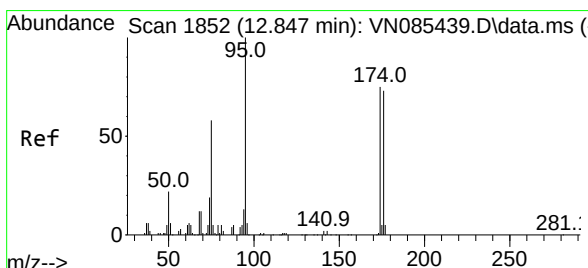
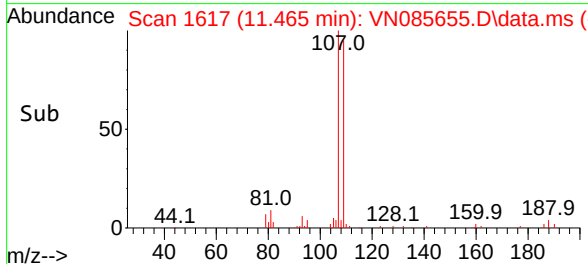
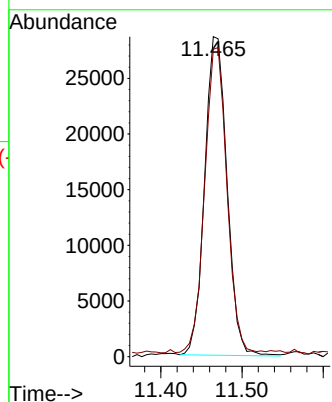
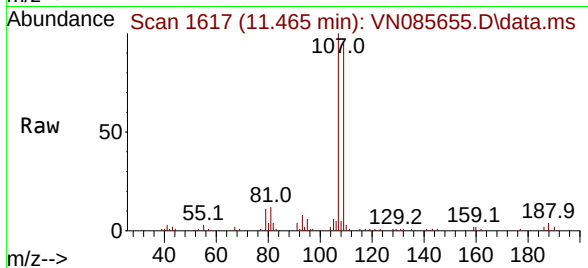




#61
1,2-Dibromoethane
Concen: 20.824 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

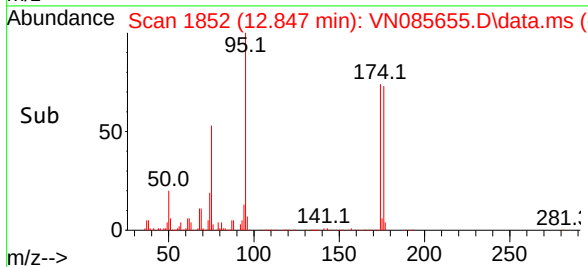
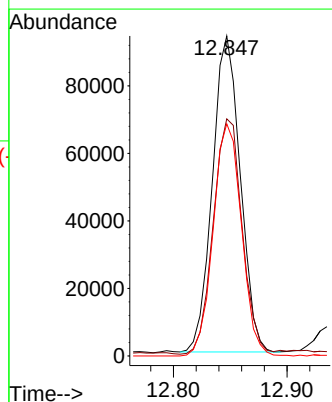
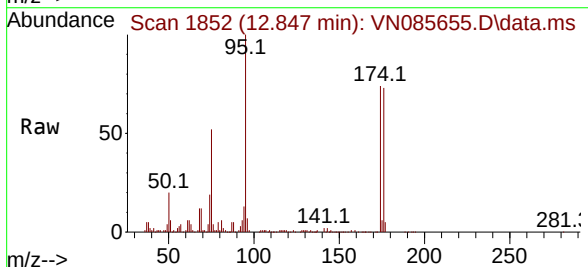
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

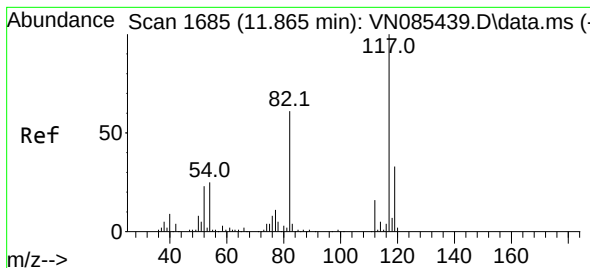
Tgt Ion:107 Resp: 54817
Ion Ratio Lower Upper
107 100
109 94.4 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 47.936 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 95 Resp: 159331
Ion Ratio Lower Upper
95 100
174 77.0 0.0 145.0
176 74.7 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

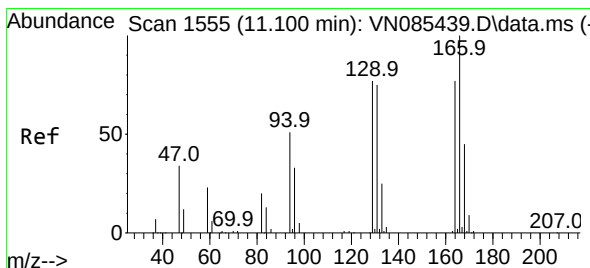
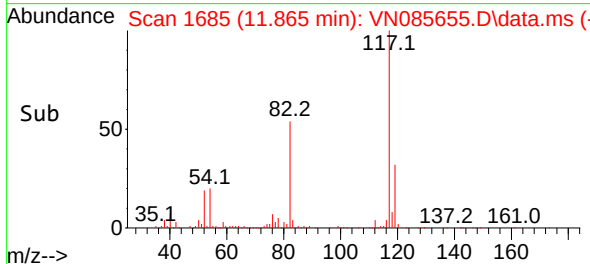
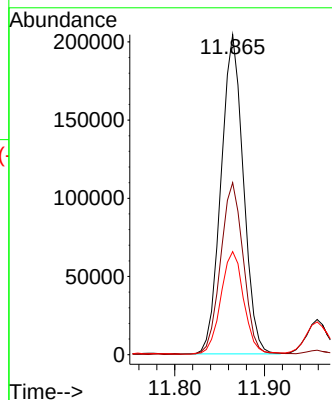
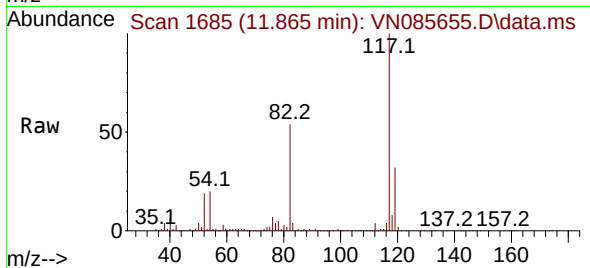
Tgt Ion:117 Resp: 352019

Ion Ratio Lower Upper

117 100

82 53.8 48.6 72.8

119 32.0 26.6 39.8



#64

Tetrachloroethene

Concen: 20.539 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Tgt Ion:164 Resp: 49290

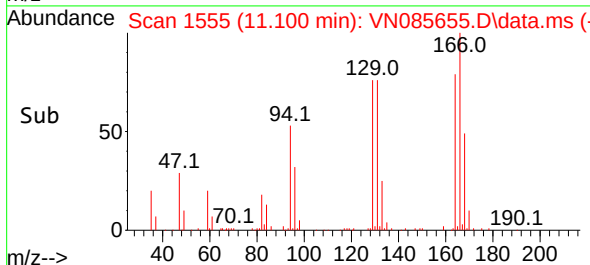
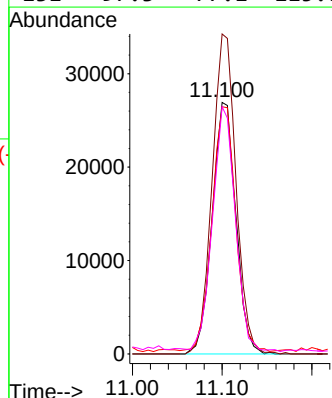
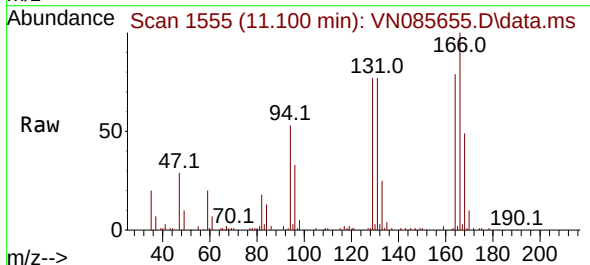
Ion Ratio Lower Upper

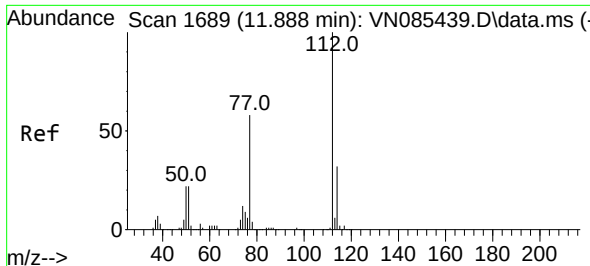
164 100

166 127.2 103.4 155.2

129 96.9 79.2 118.8

131 97.3 77.1 115.7

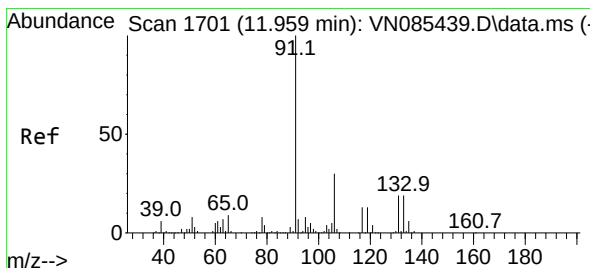
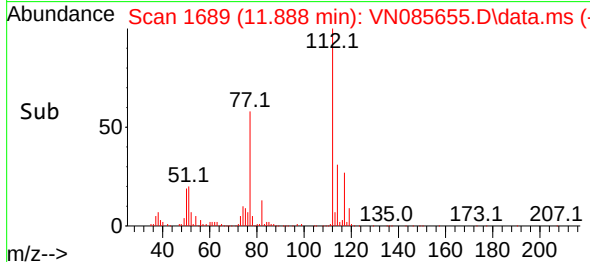
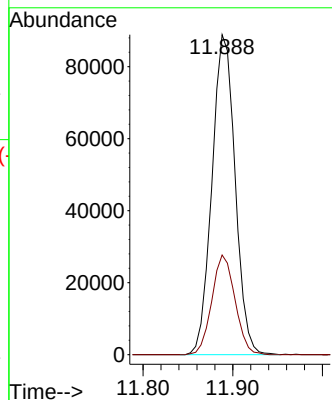
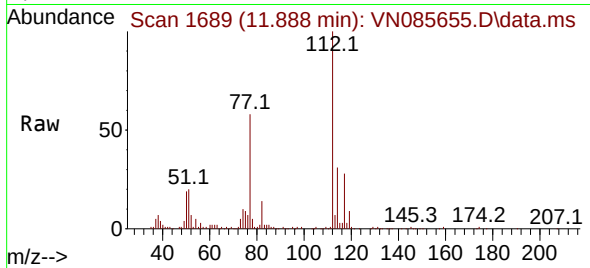




#65
Chlorobenzene
Concen: 20.660 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

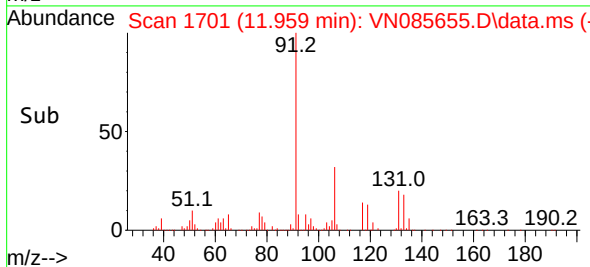
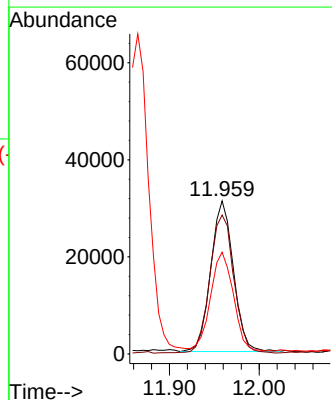
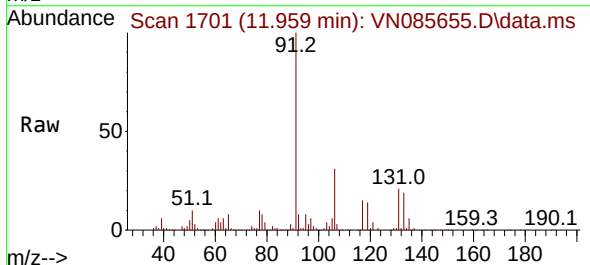
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

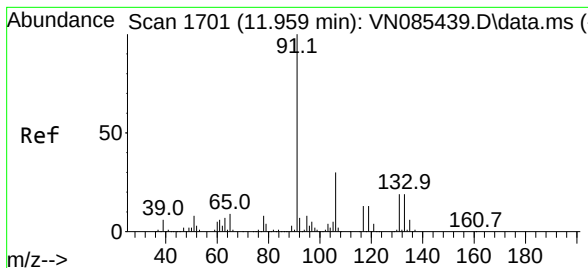
Tgt Ion:112 Resp: 159321
Ion Ratio Lower Upper
112 100
114 31.2 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 19.203 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:131 Resp: 54350
Ion Ratio Lower Upper
131 100
133 97.8 47.4 142.3
119 66.4 33.1 99.5

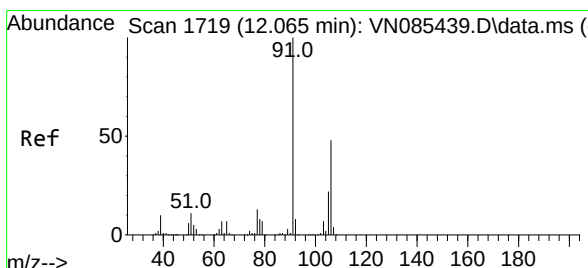
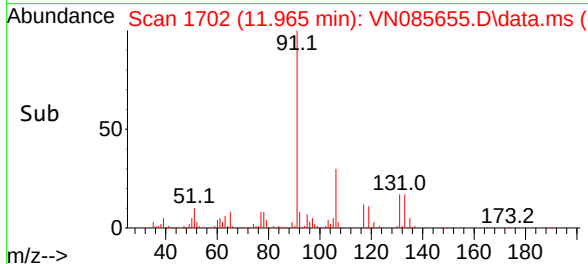
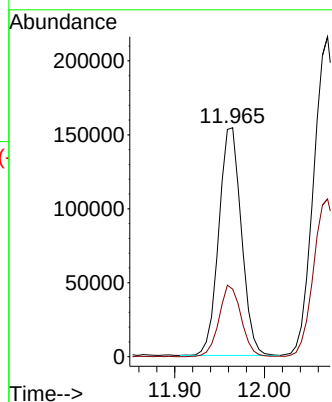
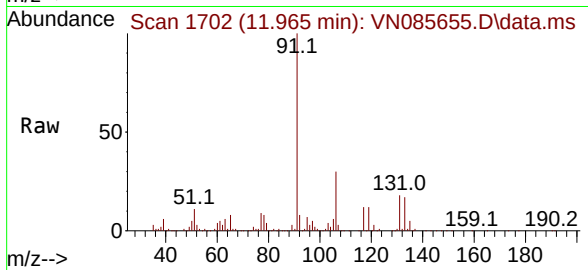




#67
Ethyl Benzene
Concen: 21.395 ug/l
RT: 11.965 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

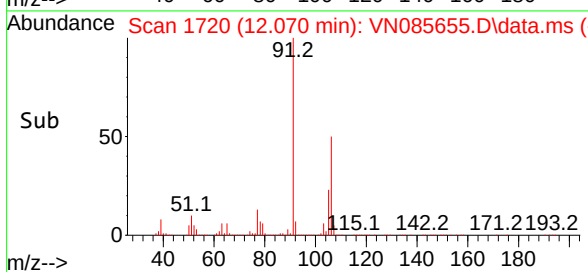
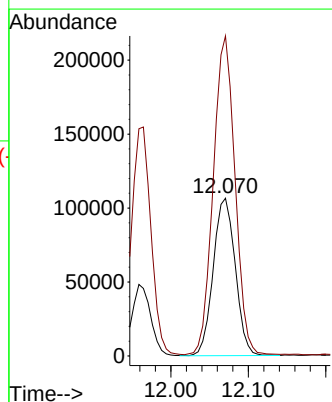
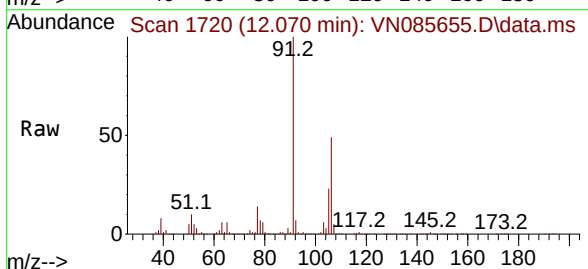
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

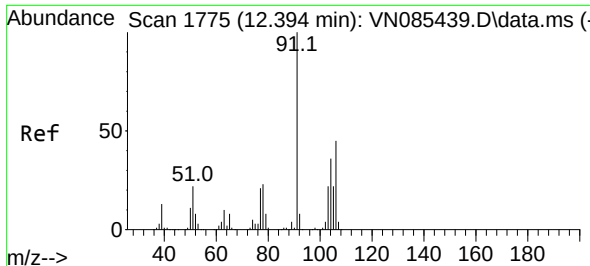
Tgt Ion: 91 Resp: 268719
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.8



#68
m/p-Xylenes
Concen: 45.376 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:106 Resp: 210638
Ion Ratio Lower Upper
106 100
91 198.8 167.7 251.5

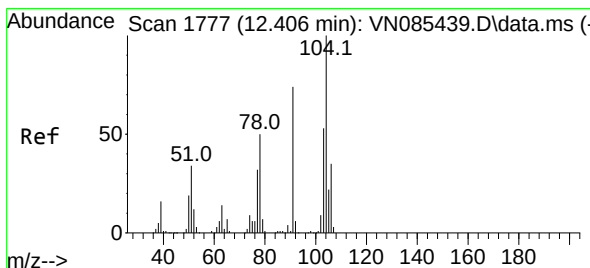
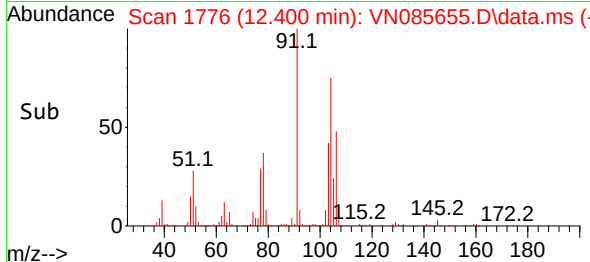
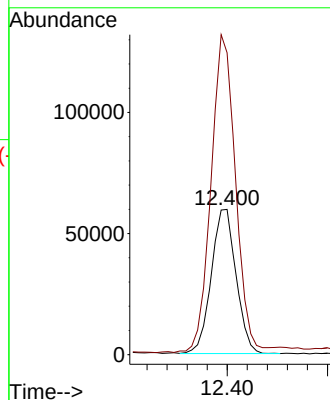
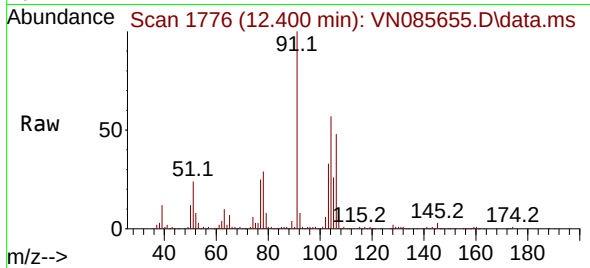




#69
o-Xylene
Concen: 23.027 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

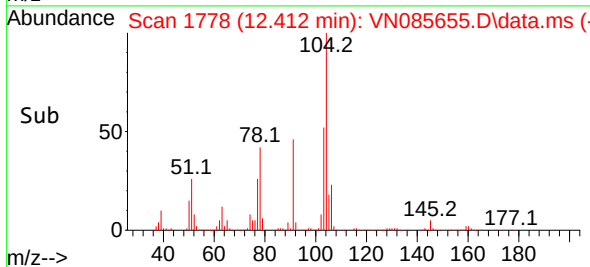
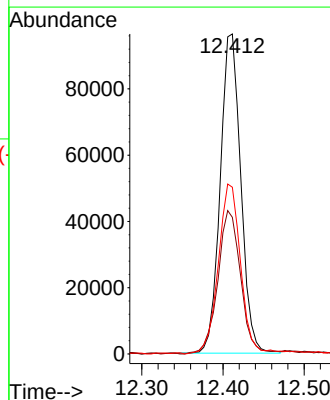
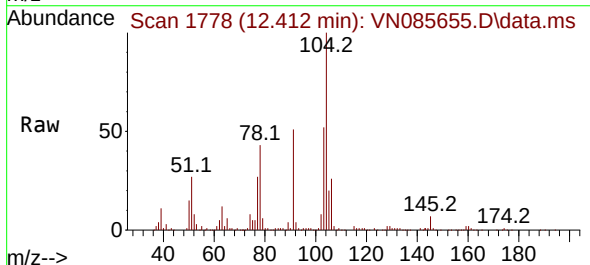
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

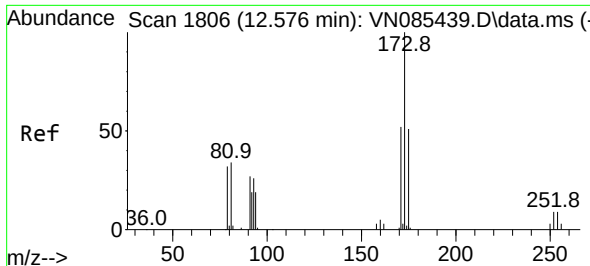
Tgt Ion:106 Resp: 102151
Ion Ratio Lower Upper
106 100
91 218.0 110.4 331.2



#70
Styrene
Concen: 23.149 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:104 Resp: 169955
Ion Ratio Lower Upper
104 100
78 49.9 42.5 63.7
103 58.4 43.8 65.8

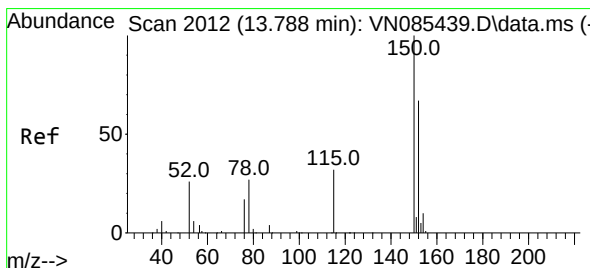
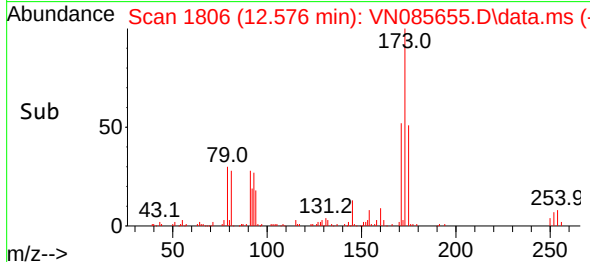
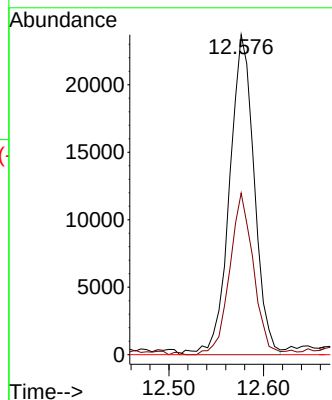
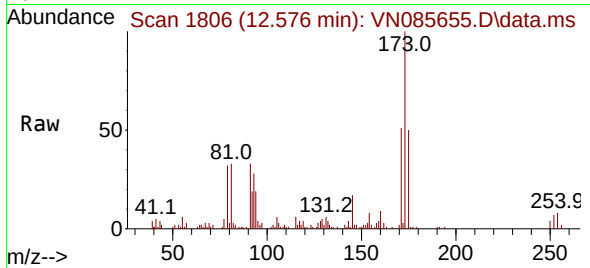




#71
Bromoform
Concen: 21.228 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

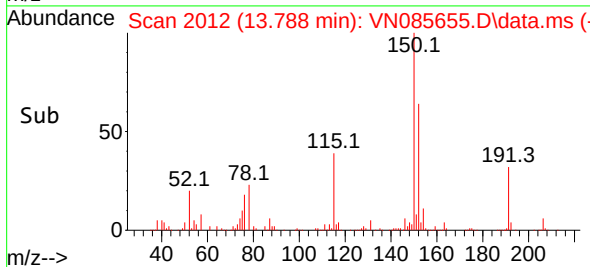
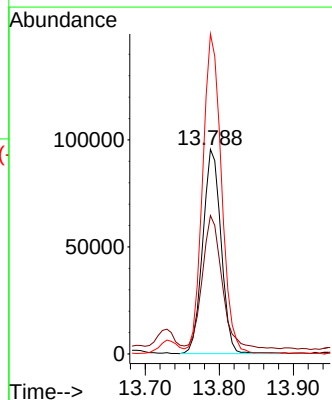
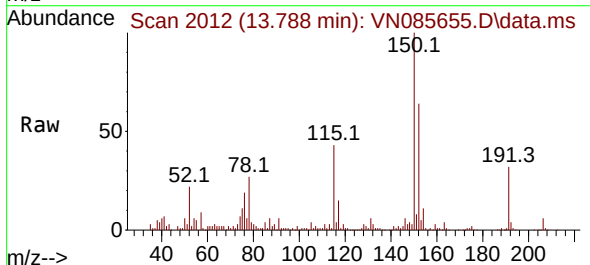
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

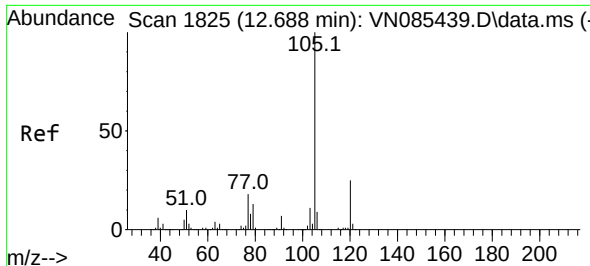
Tgt Ion:173 Resp: 42989
Ion Ratio Lower Upper
173 100
175 48.5 24.4 73.2
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:152 Resp: 163365
Ion Ratio Lower Upper
152 100
115 70.1 31.1 93.3
150 161.5 0.0 343.6

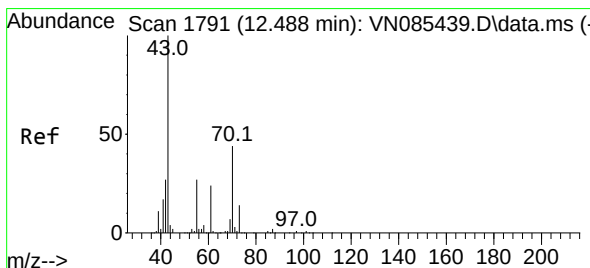
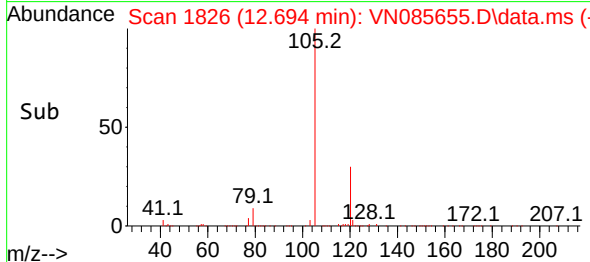
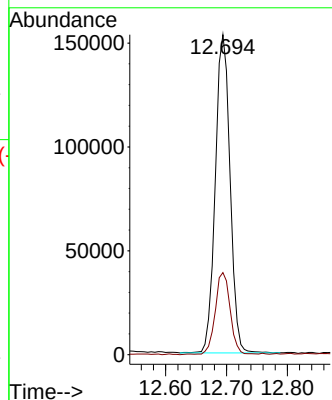
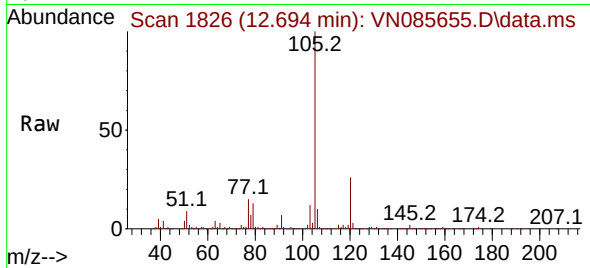




#73
Isopropylbenzene
Concen: 23.395 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

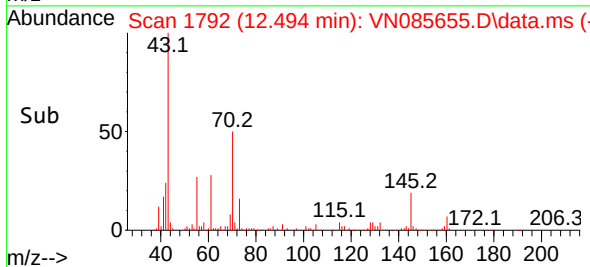
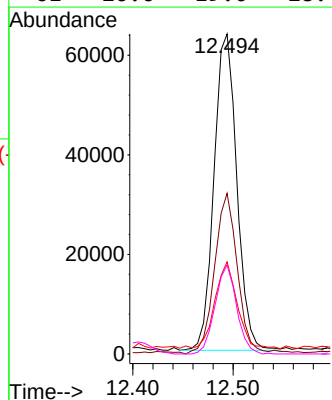
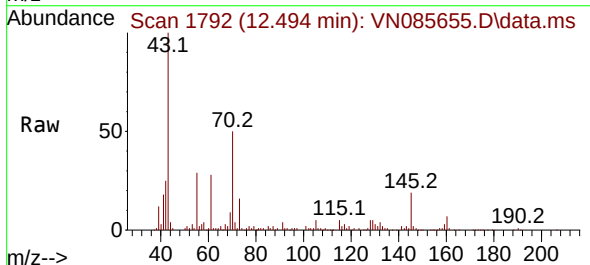
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

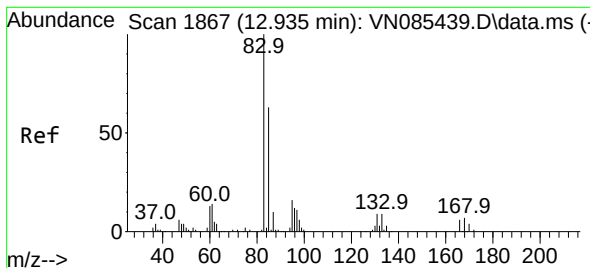
Tgt Ion:105 Resp: 257943
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.3



#74
N-ethyl acetate
Concen: 20.202 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 43 Resp: 100117
Ion Ratio Lower Upper
43 100
70 50.7 34.0 51.0
55 26.8 21.4 32.2
61 26.6 19.0 28.4

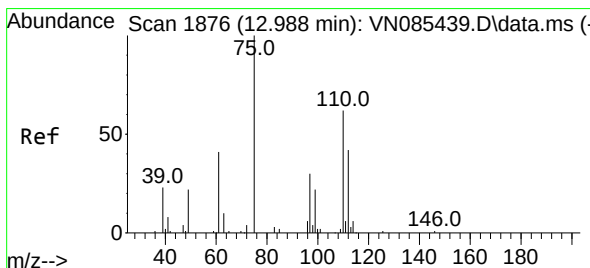
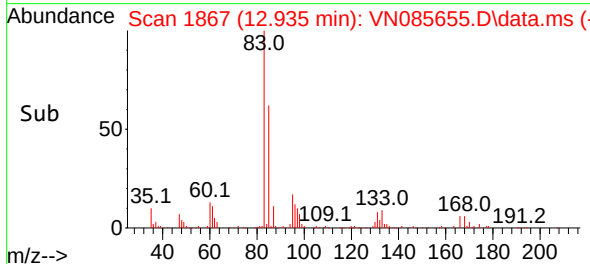
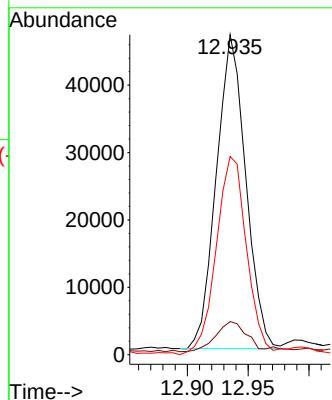
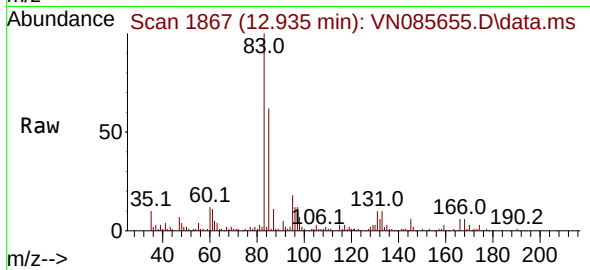




#75
 1,1,2,2-Tetrachloroethane
 Concen: 20.103 ug/l
 RT: 12.935 min Scan# 1867
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

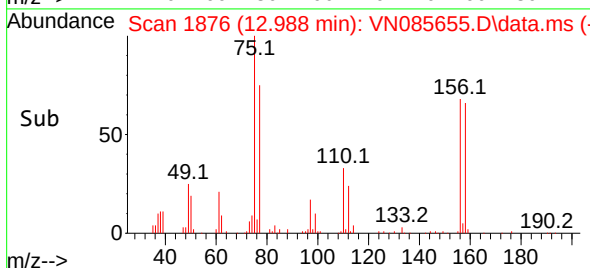
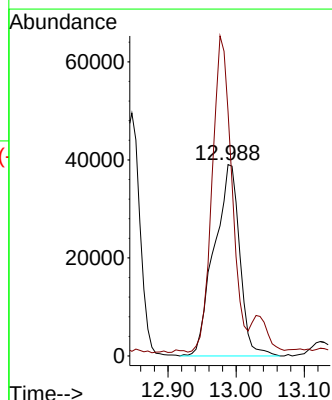
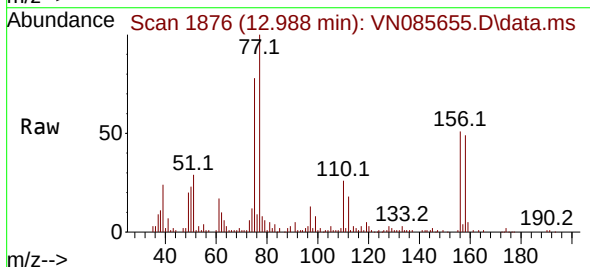
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

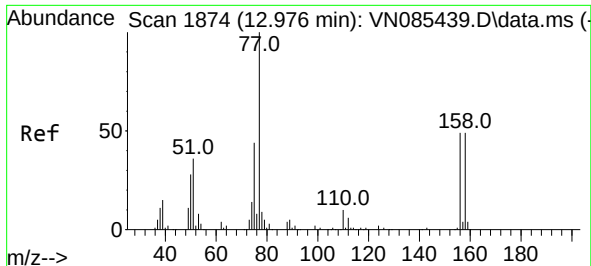
Tgt Ion: 83 Resp: 78295
 Ion Ratio Lower Upper
 83 100
 131 10.1 4.8 14.4
 85 65.9 32.2 96.6



#76
 1,2,3-Trichloropropane
 Concen: 30.608 ug/l
 RT: 12.988 min Scan# 1876
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

Tgt Ion: 75 Resp: 101633
 Ion Ratio Lower Upper
 75 100
 77 127.2 109.7 329.2

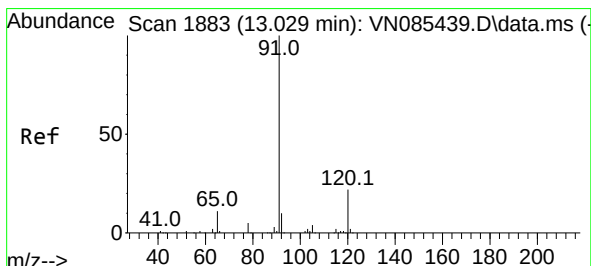
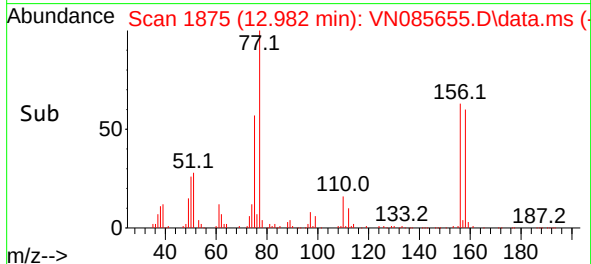
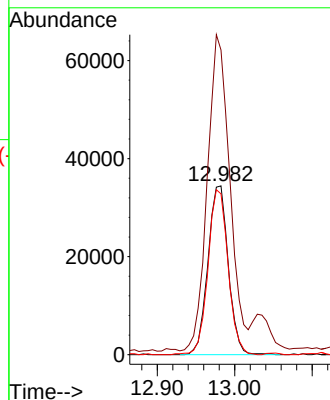
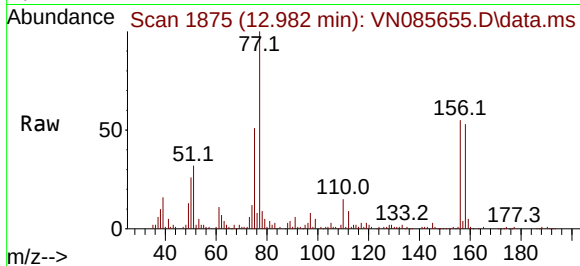




#77
Bromobenzene
Concen: 21.784 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

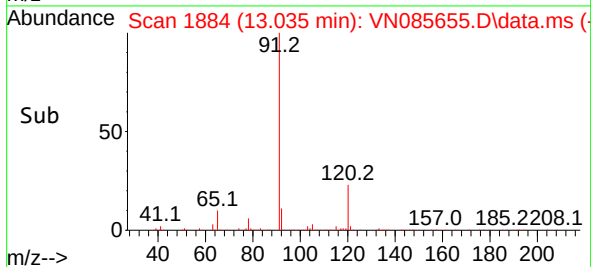
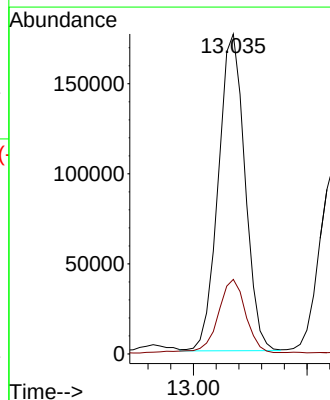
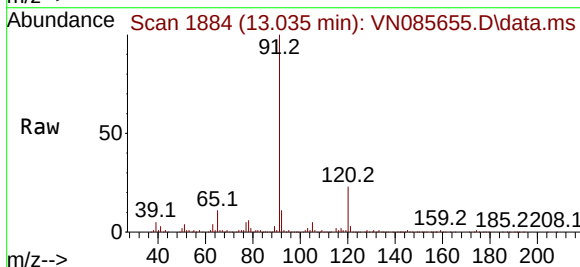
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

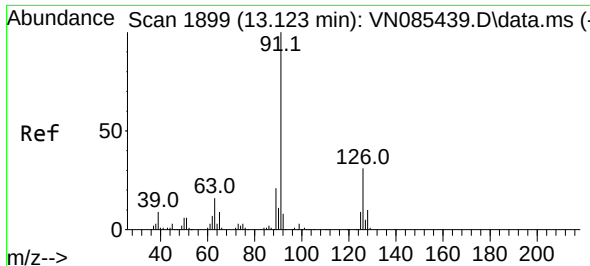
Tgt Ion:156 Resp: 62751
Ion Ratio Lower Upper
156 100
77 206.0 114.1 342.4
158 96.3 48.9 146.8



#78
n-propylbenzene
Concen: 21.950 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 91 Resp: 286507
Ion Ratio Lower Upper
91 100
120 24.4 10.9 32.6

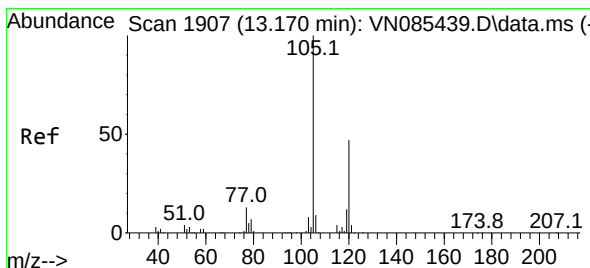
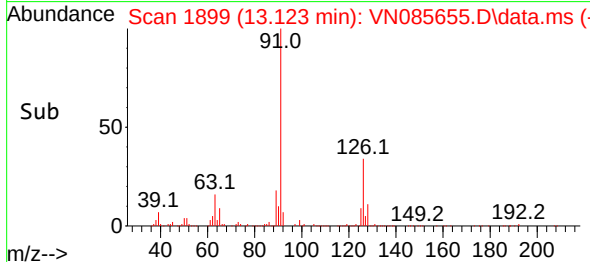
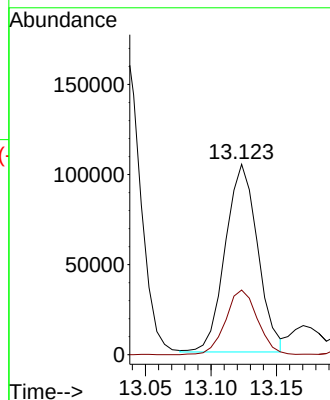
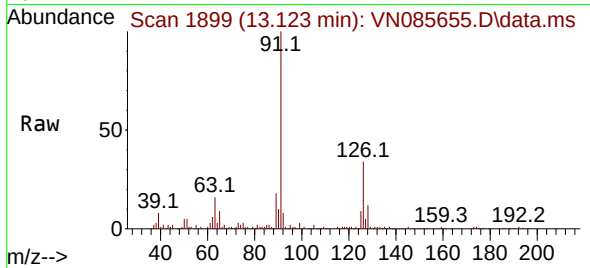




#79
2-Chlorotoluene
Concen: 21.229 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

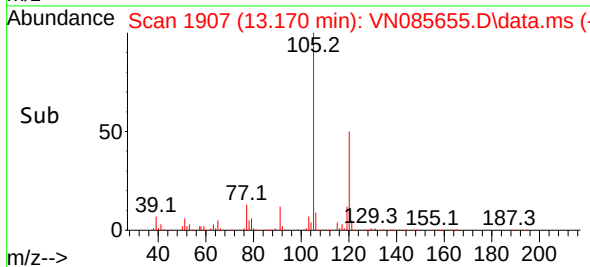
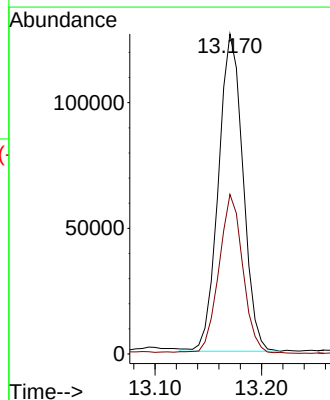
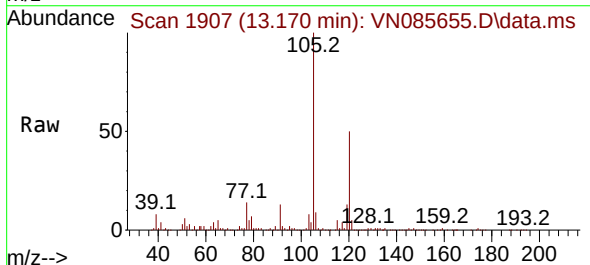
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

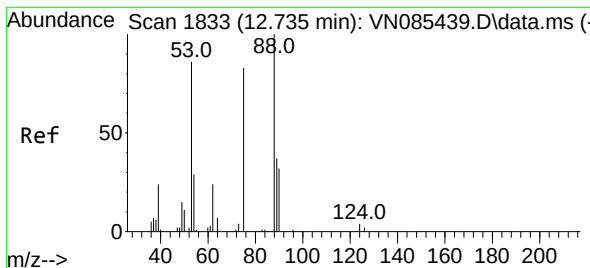
Tgt Ion: 91 Resp: 179331
Ion Ratio Lower Upper
91 100
126 34.0 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 22.184 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 105 Resp: 202037
Ion Ratio Lower Upper
105 100
120 48.9 23.9 71.7

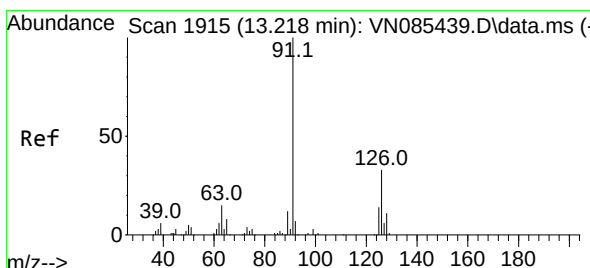
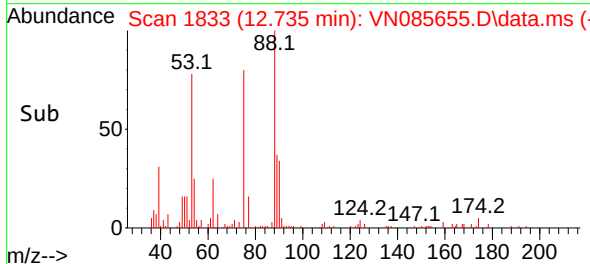
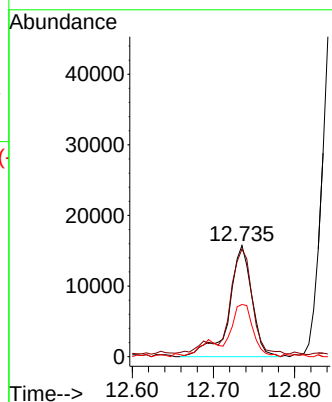
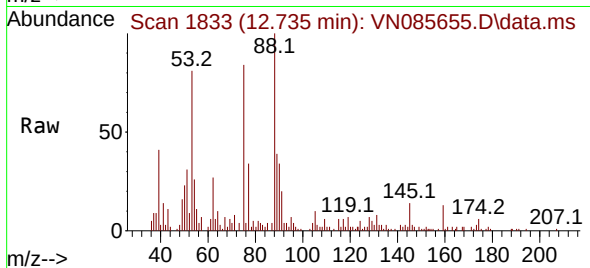




#81
trans-1,4-Dichloro-2-butene
Concen: 24.970 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

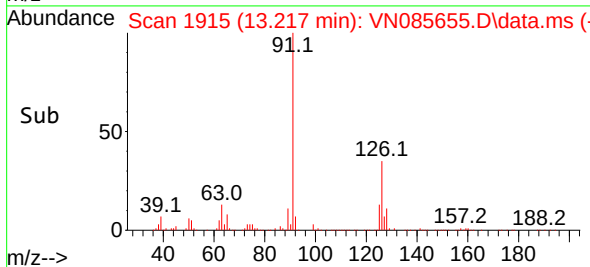
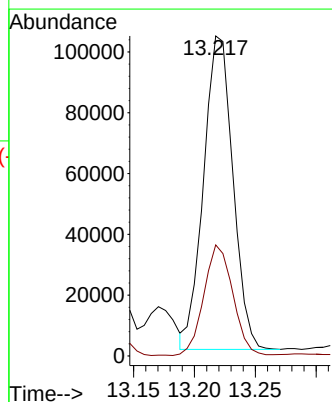
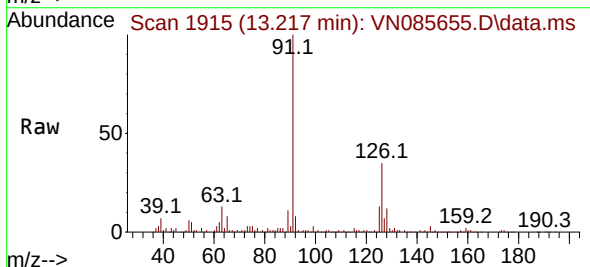
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

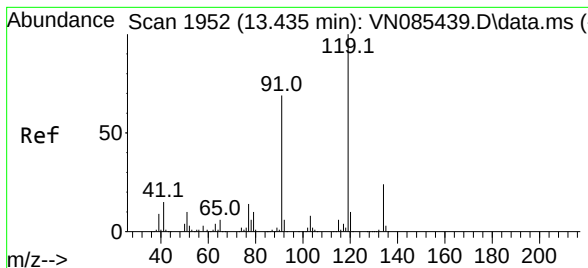
Tgt Ion: 75 Resp: 30645
Ion Ratio Lower Upper
75 100
53 85.3 95.6 143.4#
89 43.4 37.0 55.6



#82
4-Chlorotoluene
Concen: 20.584 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 91 Resp: 173140
Ion Ratio Lower Upper
91 100
126 34.6 15.9 47.7

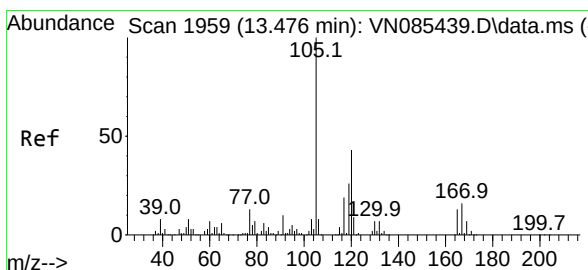
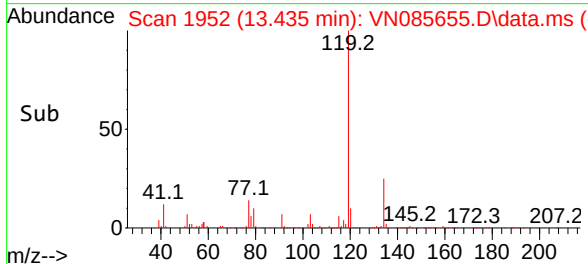
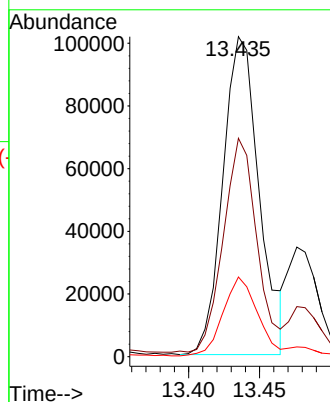
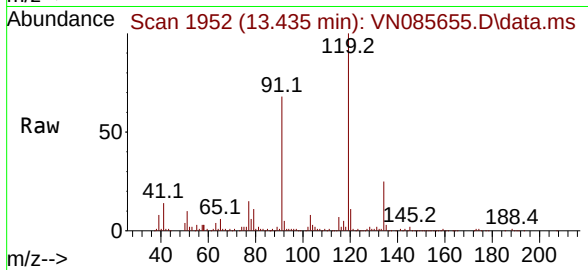




#83
tert-Butylbenzene
Concen: 23.548 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

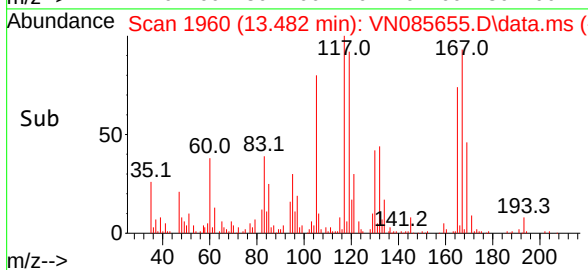
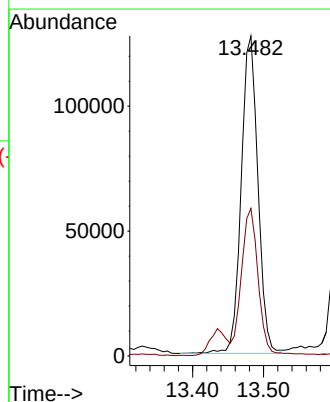
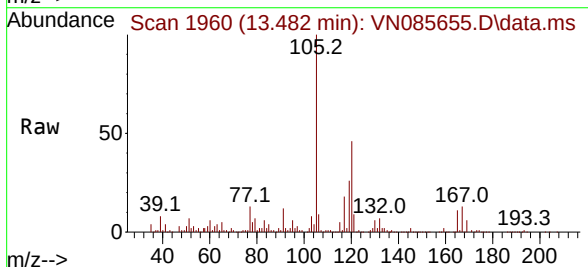
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

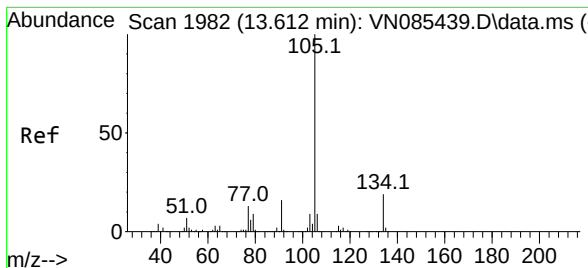
Tgt Ion:119 Resp: 180098
Ion Ratio Lower Upper
119 100
91 62.1 35.1 105.3
134 23.8 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 22.919 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:105 Resp: 208039
Ion Ratio Lower Upper
105 100
120 46.1 21.6 65.0

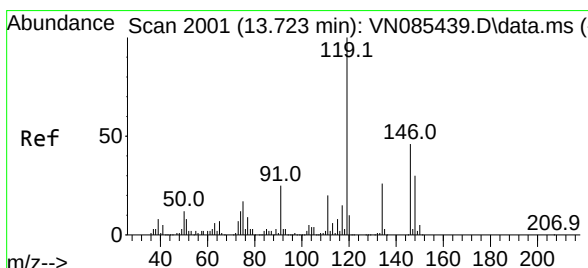
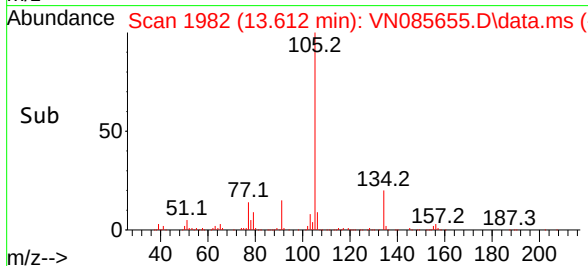
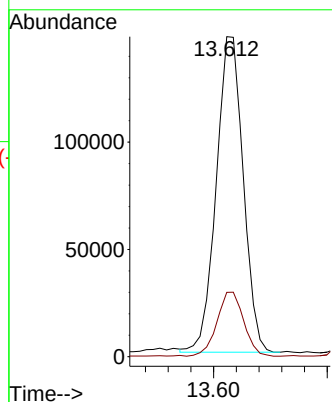
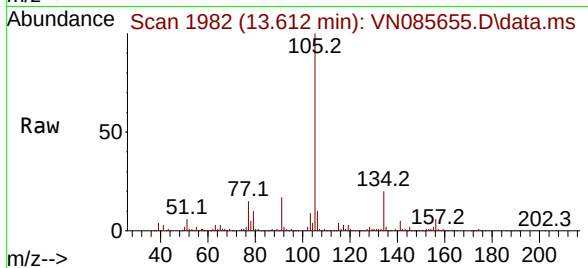




#85
 sec-Butylbenzene
 Concen: 22.904 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

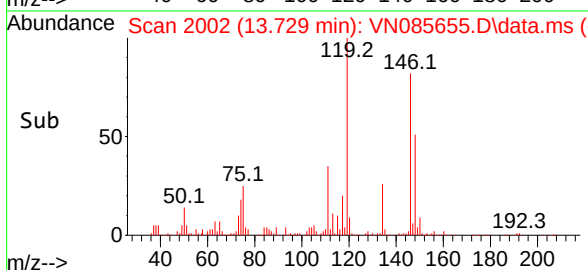
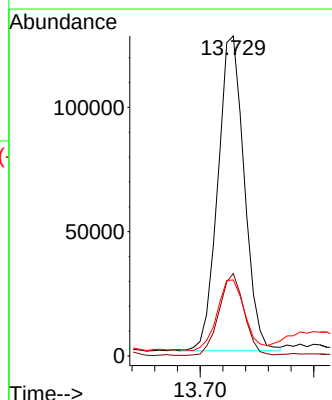
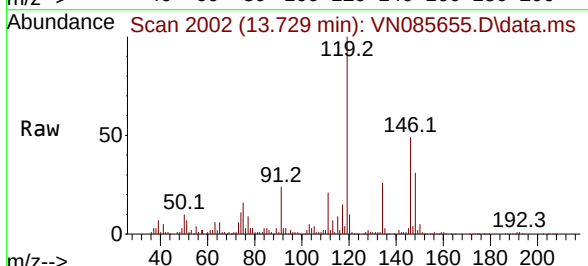
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD02

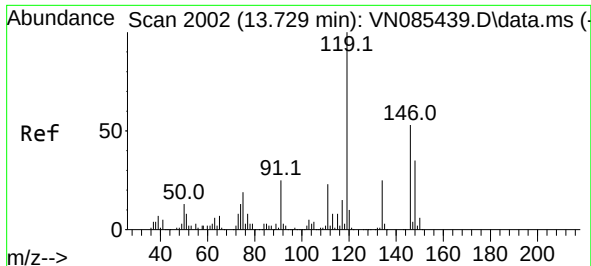
Tgt Ion:105 Resp: 242783
 Ion Ratio Lower Upper
 105 100
 134 20.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 22.987 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085655.D
 Acq: 04 Feb 2025 16:37

Tgt Ion:119 Resp: 204722
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.7 38.0
 91 23.3 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 20.000 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

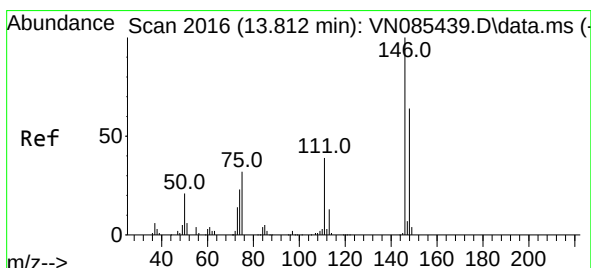
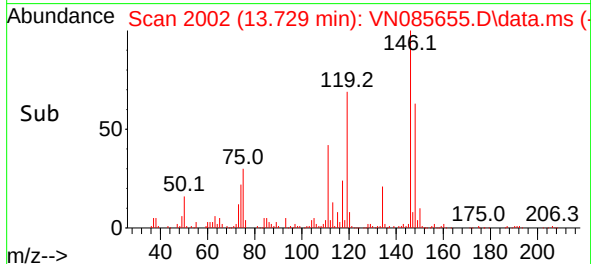
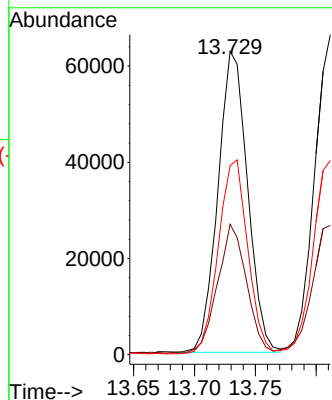
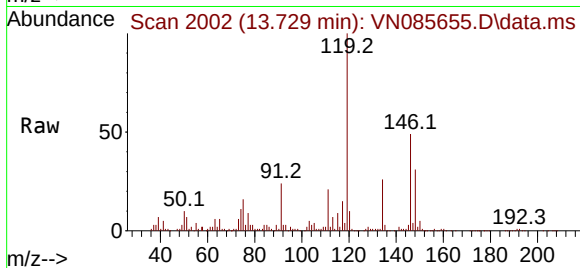
Tgt Ion:146 Resp: 106100

Ion Ratio Lower Upper

146 100

111 41.8 21.4 64.3

148 64.2 32.3 96.9



#88

1,4-Dichlorobenzene

Concen: 19.535 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

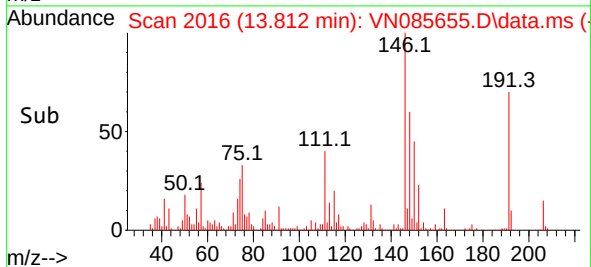
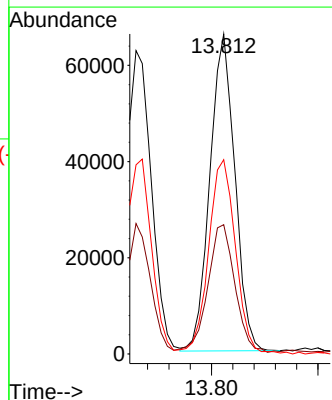
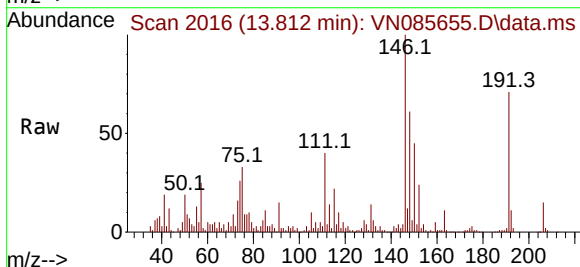
Tgt Ion:146 Resp: 107417

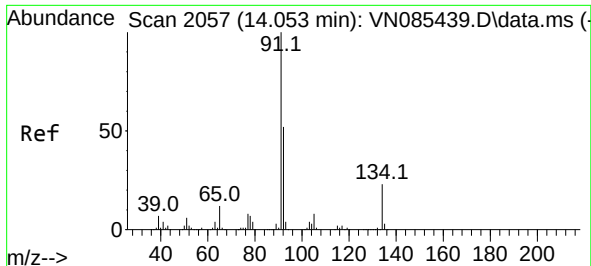
Ion Ratio Lower Upper

146 100

111 43.1 21.3 63.7

148 66.1 32.4 97.0

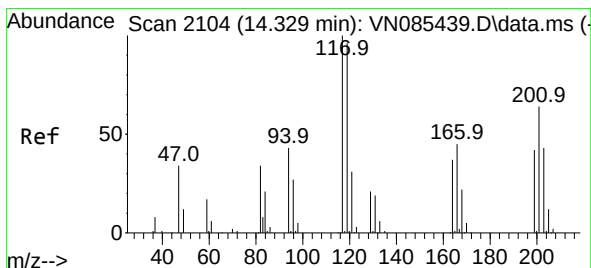
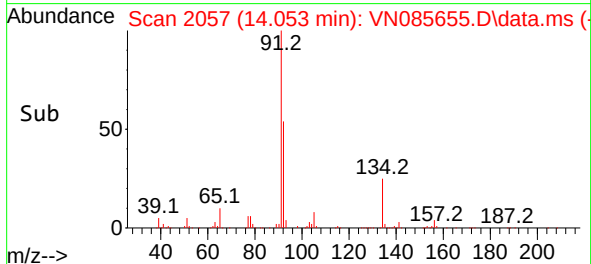
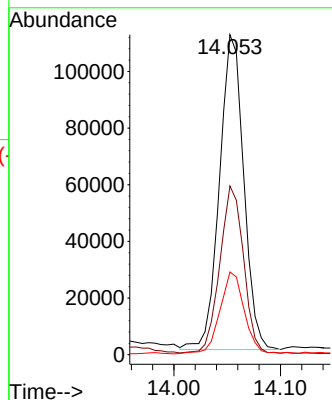
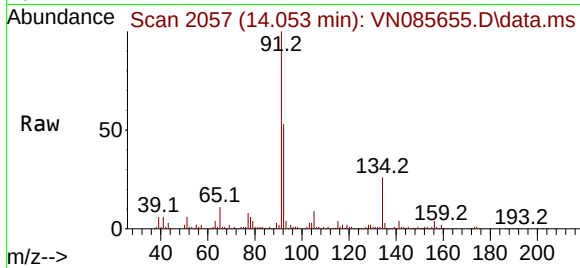




#89
n-Butylbenzene
Concen: 23.126 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

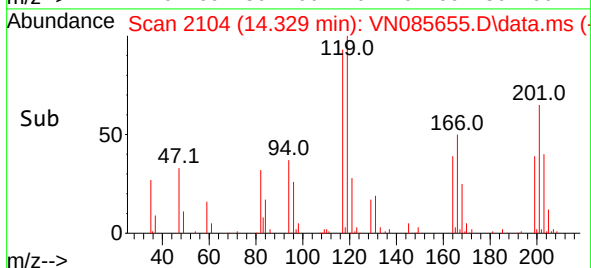
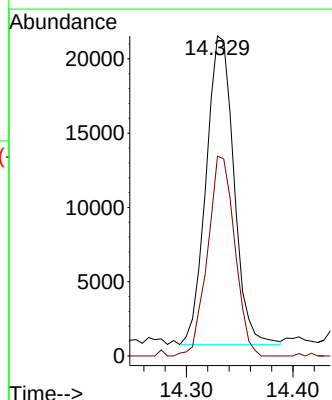
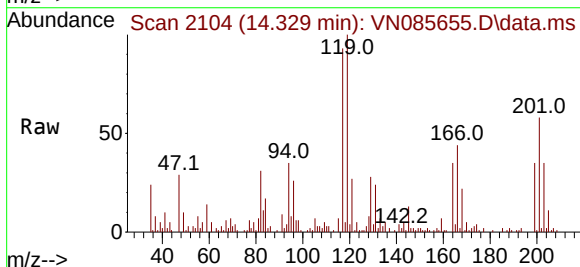
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

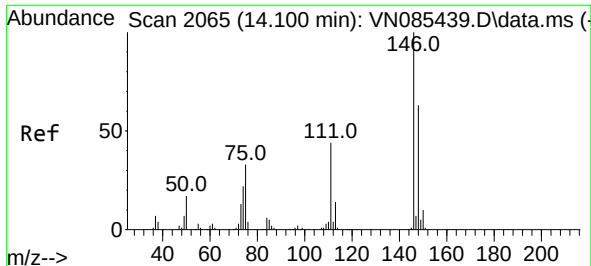
Tgt Ion: 91 Resp: 175860
Ion Ratio Lower Upper
91 100
92 51.9 25.8 77.3
134 25.9 11.7 35.1



#90
Hexachloroethane
Concen: 18.717 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion: 117 Resp: 37770
Ion Ratio Lower Upper
117 100
201 62.9 33.7 101.0





#91

1,2-Dichlorobenzene

Concen: 20.260 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

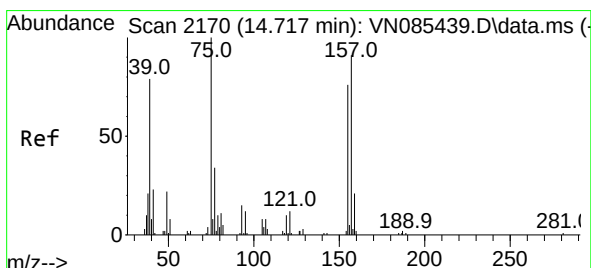
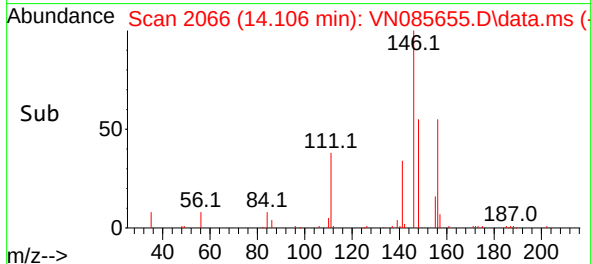
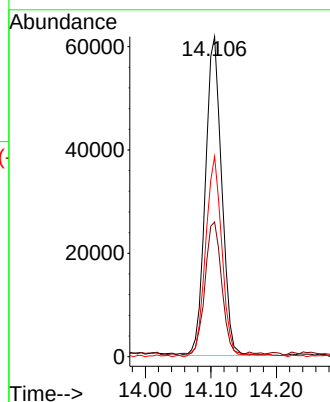
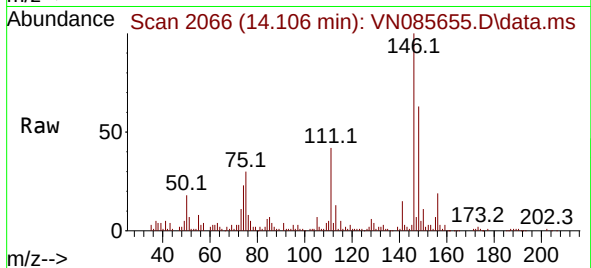
Tgt Ion:146 Resp: 107206

Ion Ratio Lower Upper

146 100

111 43.0 21.7 65.1

148 62.4 31.4 94.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.390 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

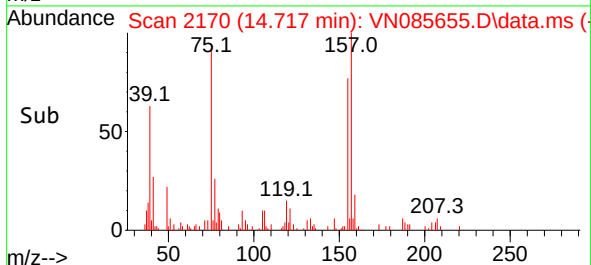
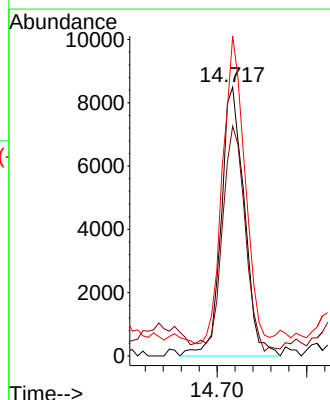
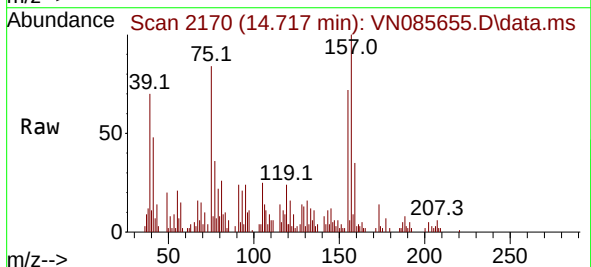
Tgt Ion: 75 Resp: 15213

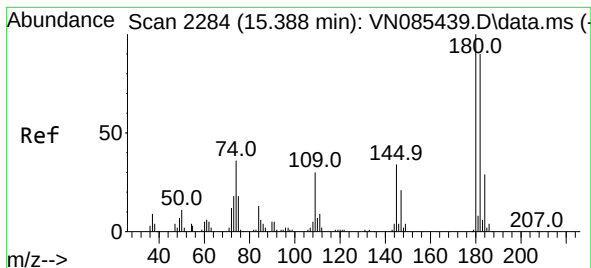
Ion Ratio Lower Upper

75 100

155 79.4 36.4 109.2

157 110.5 45.4 136.1





#93

1,2,4-Trichlorobenzene

Concen: 20.954 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD02

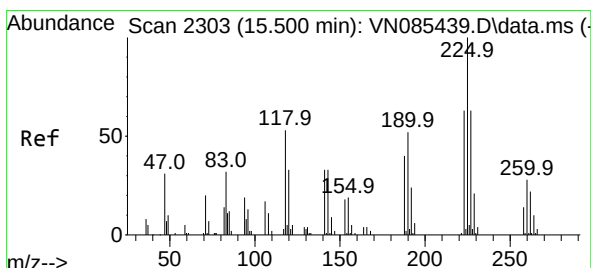
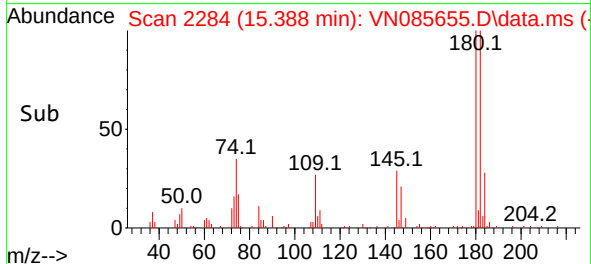
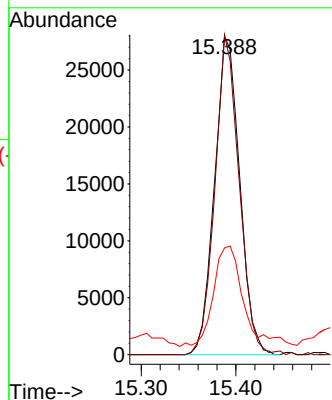
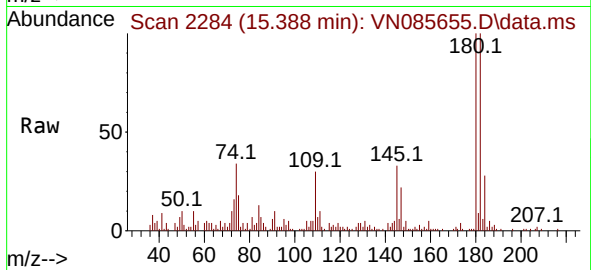
Tgt Ion:180 Resp: 51534

Ion Ratio Lower Upper

180 100

182 97.0 46.8 140.3

145 37.7 16.0 48.0



#94

Hexachlorobutadiene

Concen: 16.350 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085655.D

Acq: 04 Feb 2025 16:37

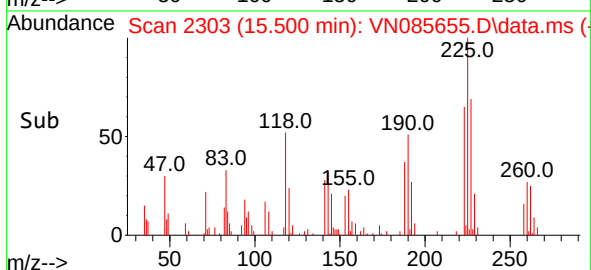
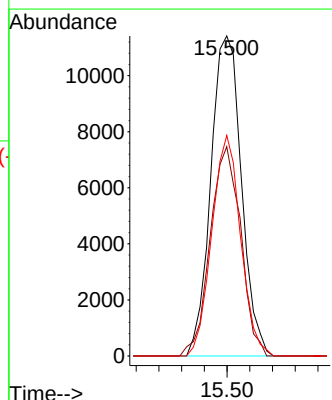
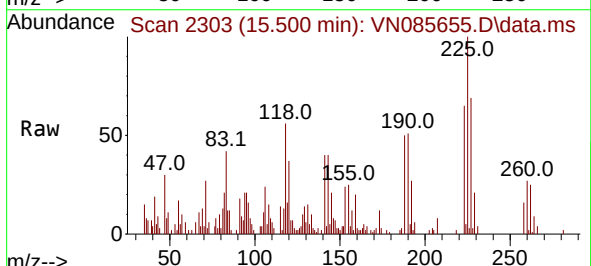
Tgt Ion:225 Resp: 21348

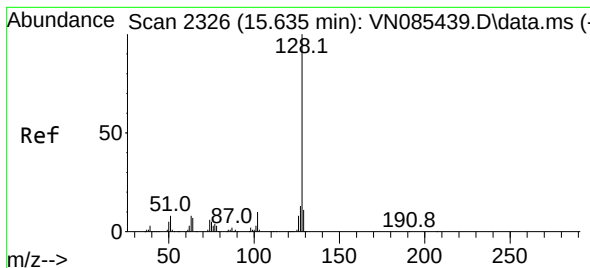
Ion Ratio Lower Upper

225 100

223 65.1 30.7 92.1

227 64.8 30.9 92.5

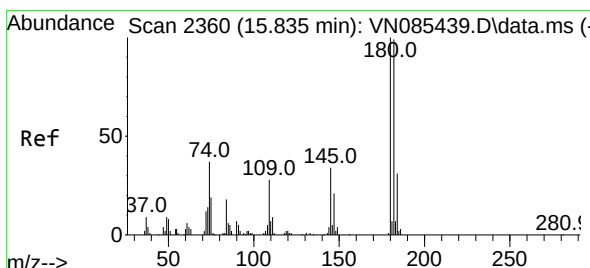
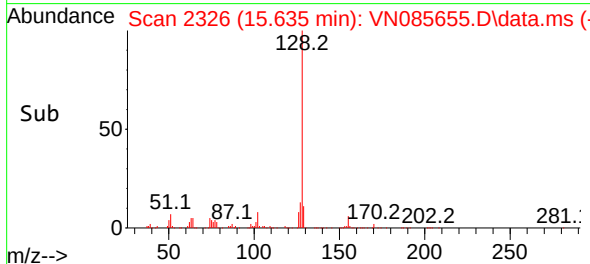
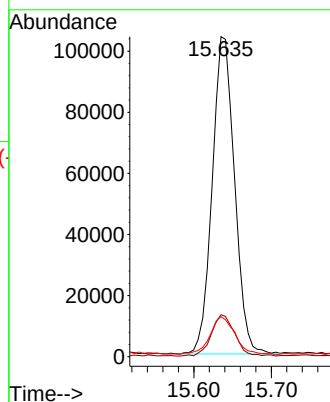
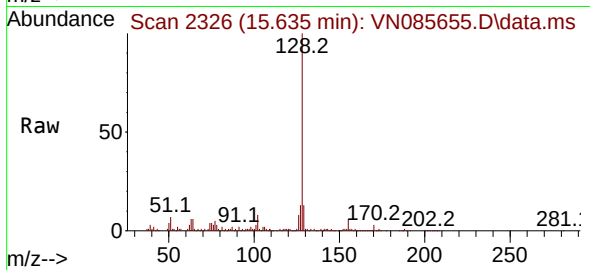




#95
Naphthalene
Concen: 28.382 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

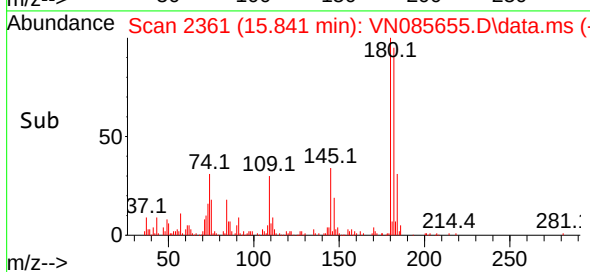
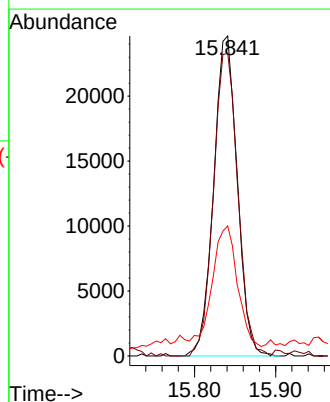
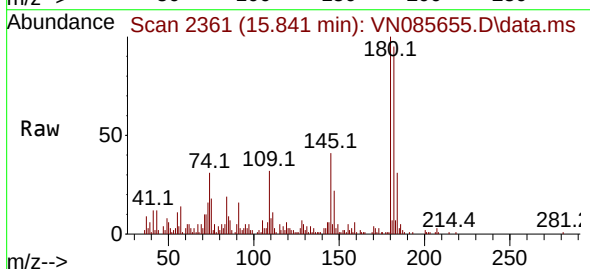
Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD02

Tgt Ion:128 Resp: 208295
Ion Ratio Lower Upper
128 100
127 13.7 10.6 16.0
129 13.6 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 19.973 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085655.D
Acq: 04 Feb 2025 16:37

Tgt Ion:180 Resp: 49703
Ion Ratio Lower Upper
180 100
182 97.9 47.4 142.2
145 39.9 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085664.D
 Acq On : 04 Feb 2025 20:15
 Operator : JC\MD
 Sample : VSTDC0050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0050EC

Quant Time: Feb 05 01:11:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	210769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	370923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	331235	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	156927	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	143328	42.127	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	84.260%
35) Dibromofluoromethane	8.165	113	120407	46.791	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.580%
50) Toluene-d8	10.565	98	444909	48.662	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.320%
62) 4-Bromofluorobenzene	12.847	95	153154	48.969	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.940%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	159575	55.918	ug/l	99
3) Chloromethane	2.359	50	143147	46.328	ug/l	96
4) Vinyl Chloride	2.512	62	183659	59.136	ug/l	96
5) Bromomethane	2.942	94	115182	61.398	ug/l	92
6) Chloroethane	3.112	64	111613	56.685	ug/l	99
7) Trichlorofluoromethane	3.495	101	228431	50.691	ug/l	96
8) Diethyl Ether	3.959	74	81803	52.547	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.365	101	130239	51.313	ug/l	97
10) Methyl Iodide	4.583	142	167001	57.456	ug/l	94
11) Tert butyl alcohol	5.518	59	107381	275.633	ug/l	98
12) 1,1-Dichloroethene	4.336	96	128149	56.652	ug/l	89
13) Acrolein	4.171	56	111909	210.430	ug/l	97
14) Allyl chloride	5.018	41	156910	42.748	ug/l #	94
15) Acrylonitrile	5.718	53	310565	250.976	ug/l	98
16) Acetone	4.424	43	244927	222.804	ug/l	93
17) Carbon Disulfide	4.706	76	367842	52.815	ug/l	99
18) Methyl Acetate	5.018	43	145654	43.573	ug/l #	89
19) Methyl tert-butyl Ether	5.789	73	408643	55.635	ug/l	97
20) Methylene Chloride	5.277	84	142550	52.381	ug/l	90
21) trans-1,2-Dichloroethene	5.789	96	133593	55.262	ug/l	92
22) Diisopropyl ether	6.665	45	378858	46.502	ug/l	97
23) Vinyl Acetate	6.600	43	1426001	250.107	ug/l #	94
24) 1,1-Dichloroethane	6.565	63	245281	49.375	ug/l	98
25) 2-Butanone	7.477	43	390192	241.200	ug/l	92
26) 2,2-Dichloropropane	7.483	77	191354	47.643	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	156691	55.030	ug/l	90
28) Bromochloromethane	7.806	49	85736	37.096	ug/l #	79
29) Tetrahydrofuran	7.835	42	260766	254.248	ug/l #	85
30) Chloroform	7.965	83	252262	49.133	ug/l	96
31) Cyclohexane	8.253	56	194293	44.998	ug/l	88
32) 1,1,1-Trichloroethane	8.165	97	225602	50.093	ug/l	94
36) 1,1-Dichloropropene	8.365	75	182370	50.496	ug/l	98
37) Ethyl Acetate	7.559	43	161385	44.271	ug/l #	95
38) Carbon Tetrachloride	8.359	117	203933	49.323	ug/l	95
39) Methylcyclohexane	9.600	83	179020	52.749	ug/l	90
40) Benzene	8.600	78	563231	51.903	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
 Data File : VN085664.D
 Acq On : 04 Feb 2025 20:15
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Feb 05 01:11:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	83931	44.255	ug/l #	89
42) 1,2-Dichloroethane	8.671	62	182452	44.642	ug/l	95
43) Isopropyl Acetate	8.688	43	286907	49.118	ug/l	96
44) Trichloroethene	9.353	130	133186	52.726	ug/l	98
45) 1,2-Dichloropropane	9.618	63	132383	47.761	ug/l	98
46) Dibromomethane	9.706	93	99179	49.589	ug/l	97
47) Bromodichloromethane	9.888	83	203722	49.998	ug/l	100
48) Methyl methacrylate	9.677	41	126761	48.223	ug/l	88
49) 1,4-Dioxane	9.694	88	47549	1074.167	ug/l #	88
51) 4-Methyl-2-Pentanone	10.441	43	825866	243.652	ug/l	92
52) Toluene	10.629	92	352156	56.008	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	201882	52.428	ug/l	93
54) cis-1,3-Dichloropropene	10.312	75	217990	52.999	ug/l	91
55) 1,1,2-Trichloroethane	11.012	97	132983	53.443	ug/l	98
56) Ethyl methacrylate	10.871	69	209546	49.991	ug/l	88
57) 1,3-Dichloropropane	11.159	76	225162	52.040	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	309122	195.762	ug/l	95
59) 2-Hexanone	11.194	43	608742	255.240	ug/l	90
60) Dibromochloromethane	11.359	129	157763	52.516	ug/l	99
61) 1,2-Dibromoethane	11.465	107	134316	54.228	ug/l	98
64) Tetrachloroethene	11.100	164	115593	51.189	ug/l	99
65) Chlorobenzene	11.888	112	389431	53.668	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	134229	50.402	ug/l	99
67) Ethyl Benzene	11.959	91	660992	55.928	ug/l	99
68) m/p-Xylenes	12.070	106	515763	118.079	ug/l	93
69) o-Xylene	12.394	106	245286	58.761	ug/l	95
70) Styrene	12.412	104	410076	59.359	ug/l	96
71) Bromoform	12.576	173	103515	54.323	ug/l #	99
73) Isopropylbenzene	12.694	105	610580	57.650	ug/l	99
74) N-amyl acetate	12.494	43	239434	50.296	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	191782	51.261	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	243346	76.294	ug/l	44
77) Bromobenzene	12.976	156	147291	53.229	ug/l	93
78) n-propylbenzene	13.035	91	692980	55.269	ug/l	98
79) 2-Chlorotoluene	13.123	91	427216	52.647	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	496596	56.764	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	66887	56.737	ug/l	85
82) 4-Chlorotoluene	13.217	91	429304	53.134	ug/l	96
83) tert-Butylbenzene	13.435	119	411529	56.016	ug/l	94
84) 1,2,4-Trimethylbenzene	13.482	105	499092	57.240	ug/l	97
85) sec-Butylbenzene	13.612	105	569818	55.962	ug/l	99
86) p-Isopropyltoluene	13.729	119	475841	51.682	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	264789	51.961	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	262072	49.616	ug/l	97
89) n-Butylbenzene	14.053	91	382769	52.399	ug/l	99
90) Hexachloroethane	14.329	117	93994	48.490	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	256034	50.370	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33940	49.679	ug/l	86
93) 1,2,4-Trichlorobenzene	15.394	180	118657	50.226	ug/l	100
94) Hexachlorobutadiene	15.500	225	52232	41.644	ug/l	98
95) Naphthalene	15.641	128	399927	56.729	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	116351	48.673	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020425\
Data File : VN085664.D
Acq On : 04 Feb 2025 20:15
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

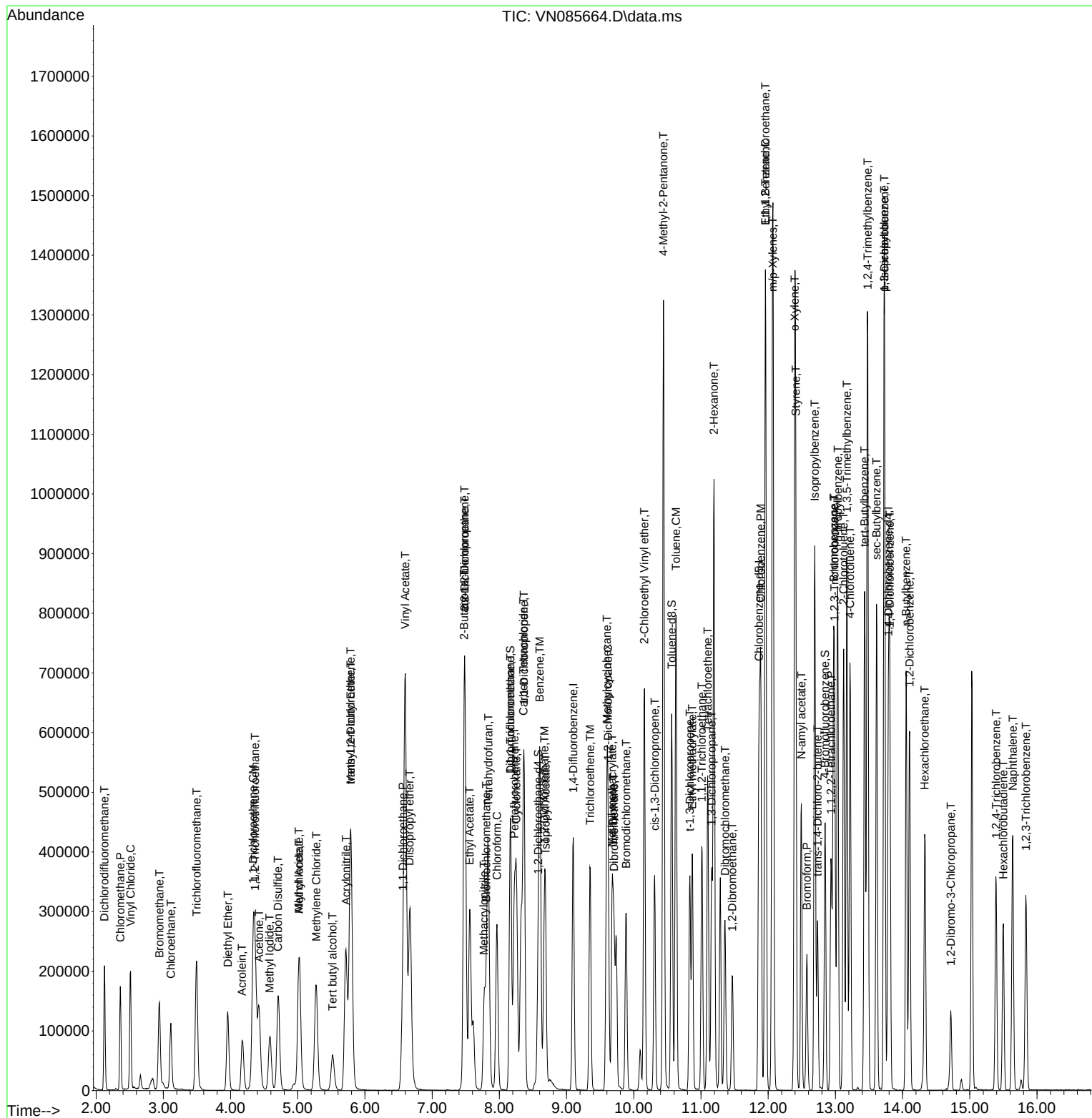
Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

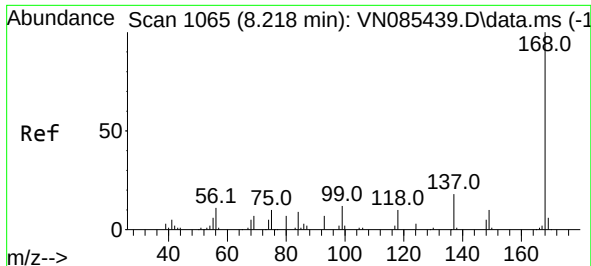
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Feb 05 01:11:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 15 02:16:08 2025
Response via : Initial Calibration

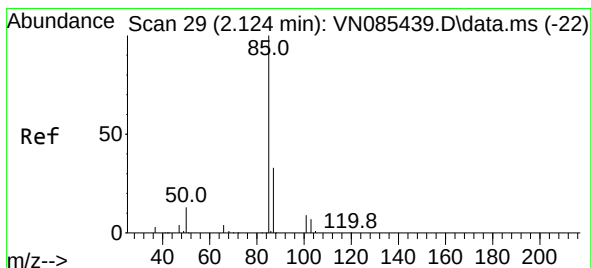
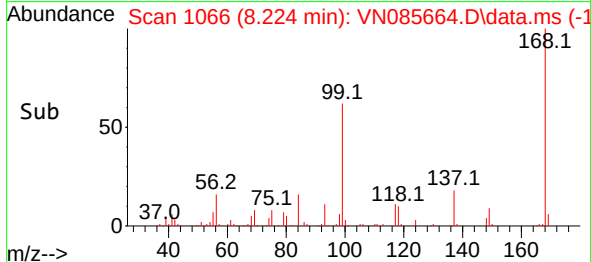
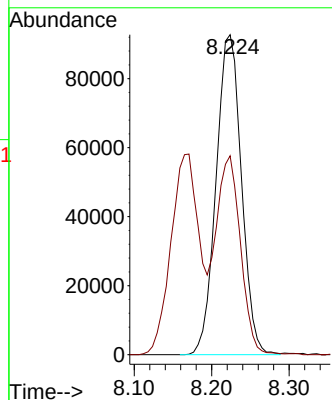
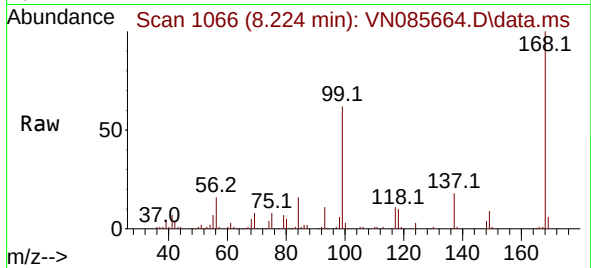




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

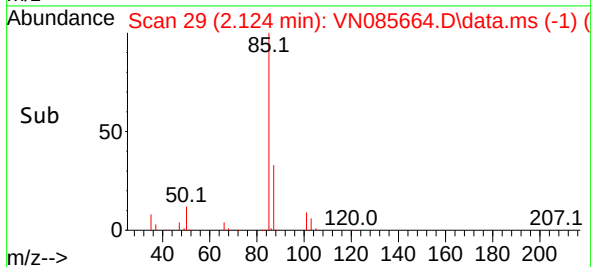
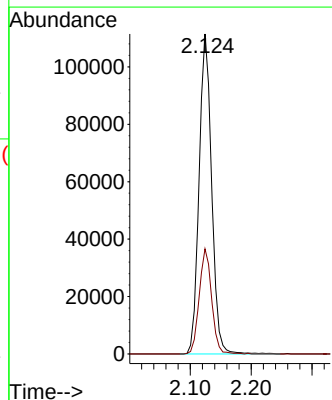
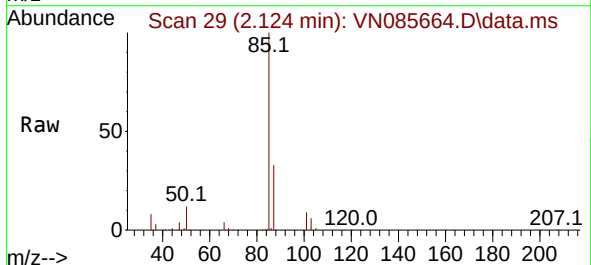
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

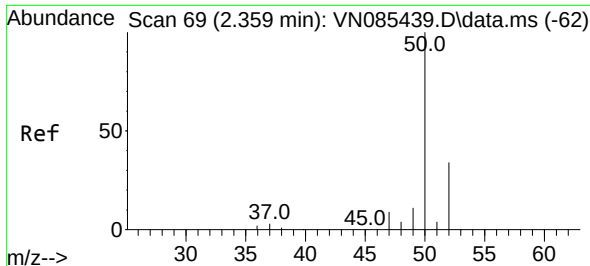
Tgt Ion:168 Resp: 210769
Ion Ratio Lower Upper
168 100
99 61.8 53.6 80.4



#2
Dichlorodifluoromethane
Concen: 55.918 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 85 Resp: 159575
Ion Ratio Lower Upper
85 100
87 32.9 16.7 50.1

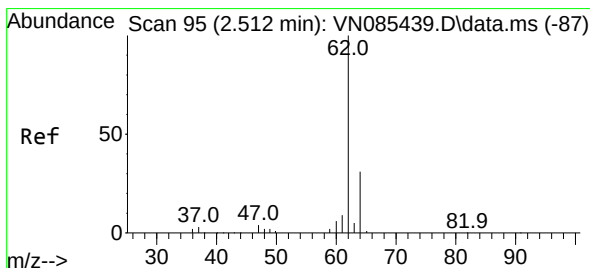
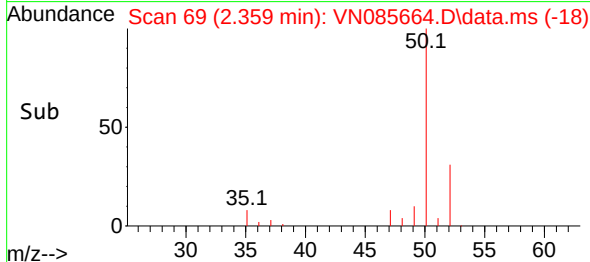
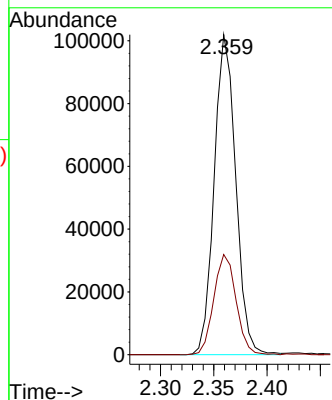
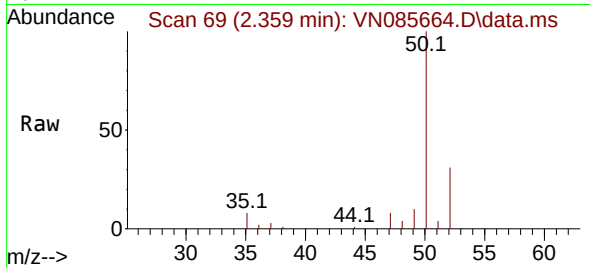




#3
Chloromethane
Concen: 46.328 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

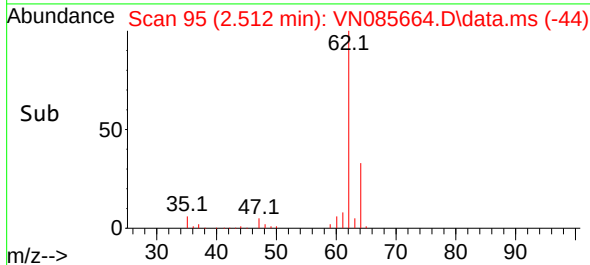
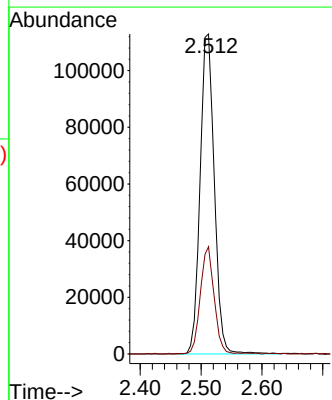
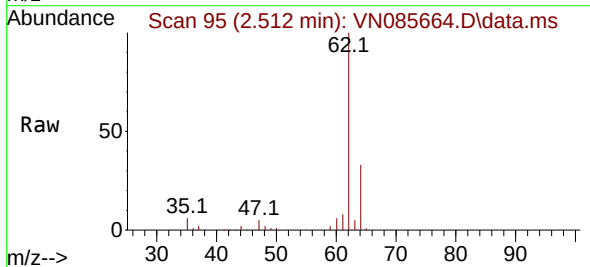
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

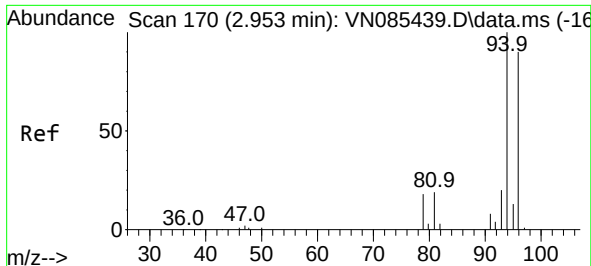
Tgt Ion: 50 Resp: 143147
Ion Ratio Lower Upper
50 100
52 31.3 27.0 40.6



#4
Vinyl Chloride
Concen: 59.136 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 62 Resp: 183659
Ion Ratio Lower Upper
62 100
64 33.3 24.8 37.2

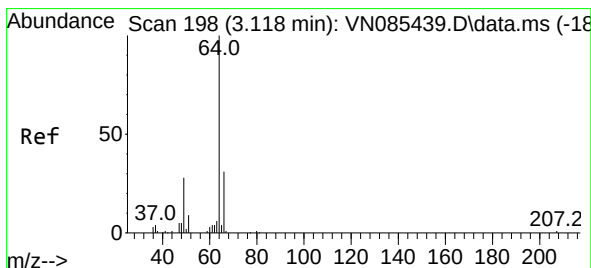
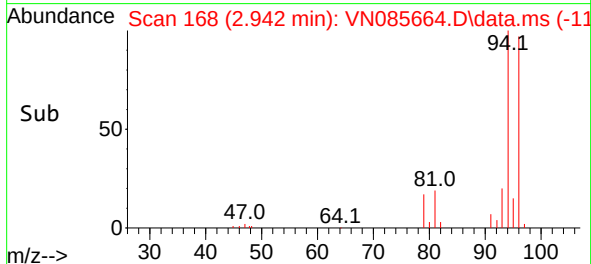
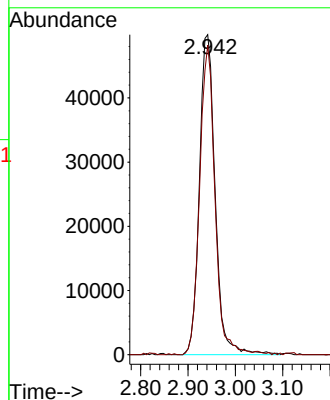
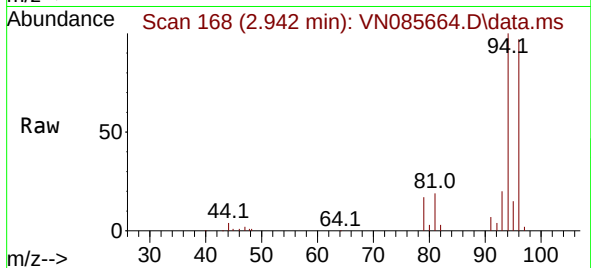




#5
Bromomethane
Concen: 61.398 ug/l
RT: 2.942 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

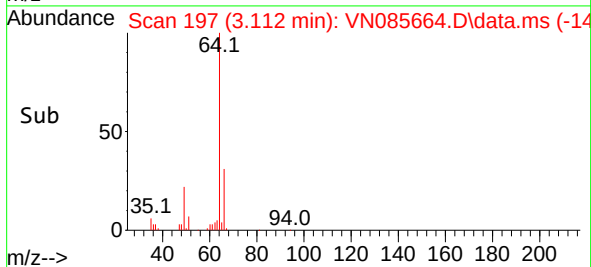
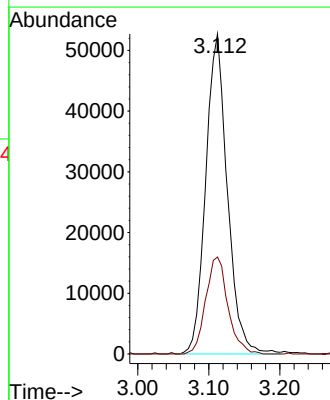
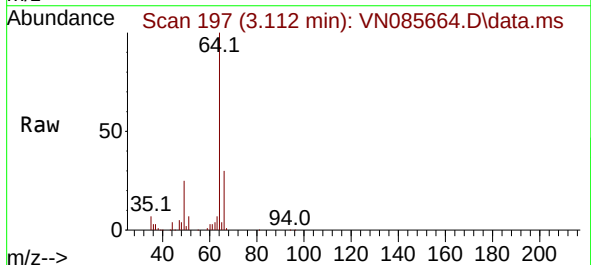
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

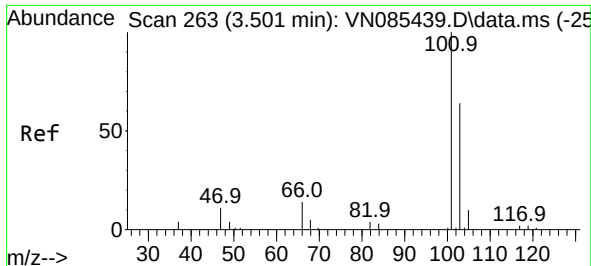
Tgt Ion: 94 Resp: 115182
Ion Ratio Lower Upper
94 100
96 96.8 71.8 107.6



#6
Chloroethane
Concen: 56.685 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 64 Resp: 111613
Ion Ratio Lower Upper
64 100
66 30.3 24.6 36.8

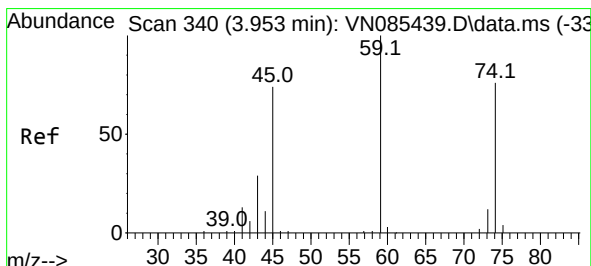
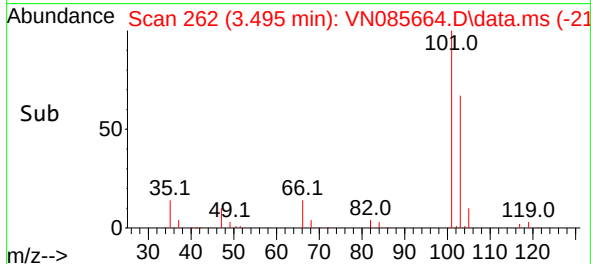
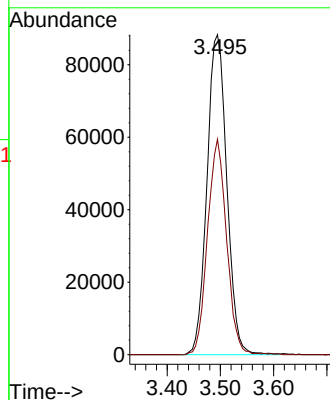
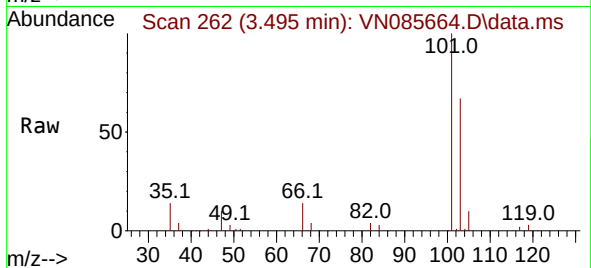




#7
Trichlorofluoromethane
Concen: 50.691 ug/l
RT: 3.495 min Scan# 210
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

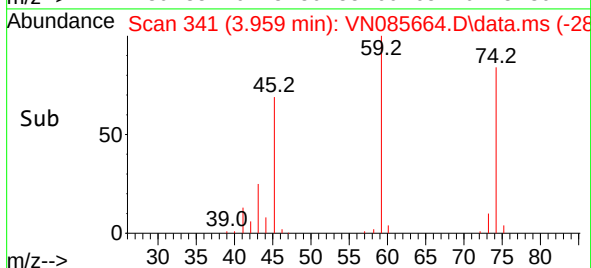
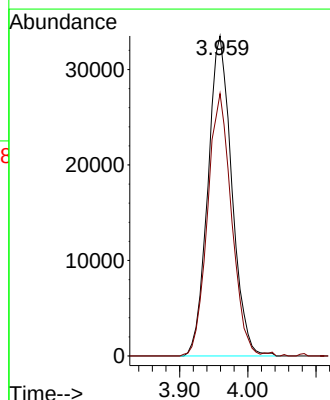
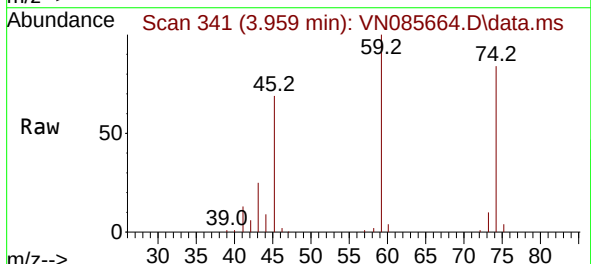
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

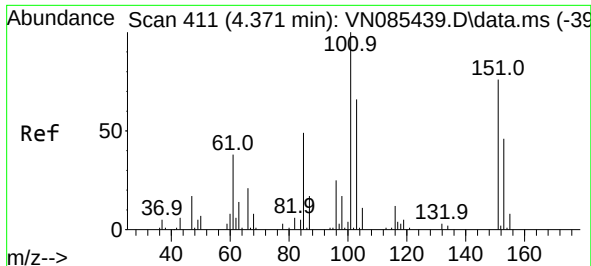
Tgt Ion:101 Resp: 228431
Ion Ratio Lower Upper
101 100
103 67.4 51.4 77.2



#8
Diethyl Ether
Concen: 52.547 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 74 Resp: 81803
Ion Ratio Lower Upper
74 100
45 82.0 49.7 149.1

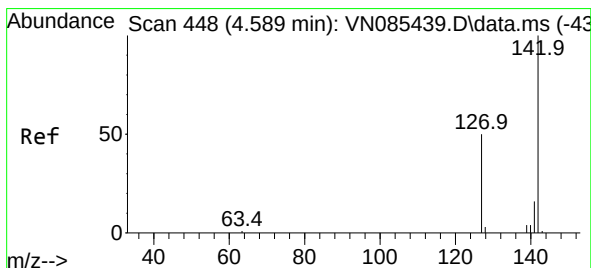
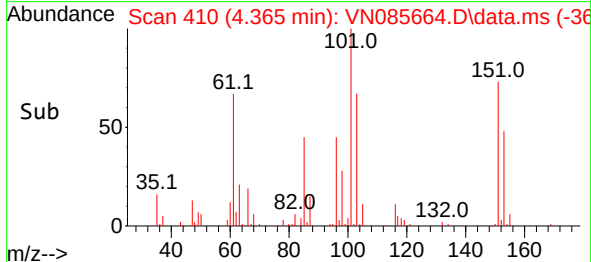
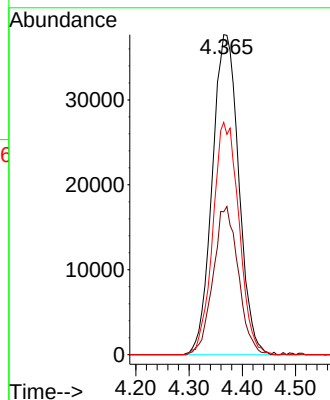
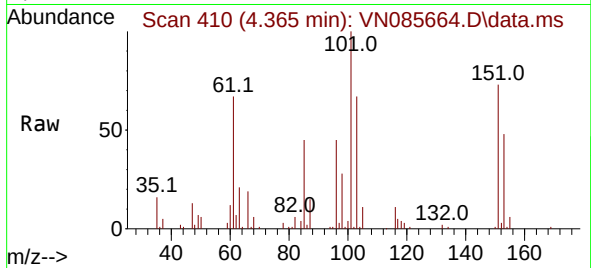




#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.313 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

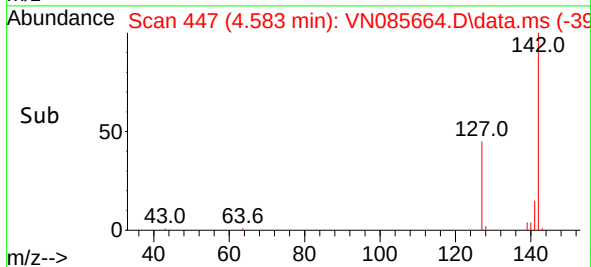
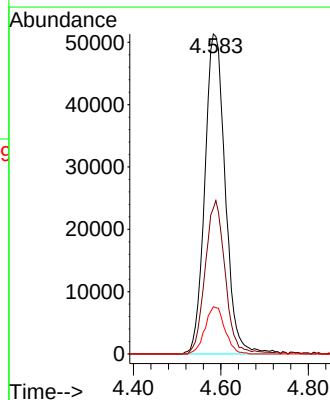
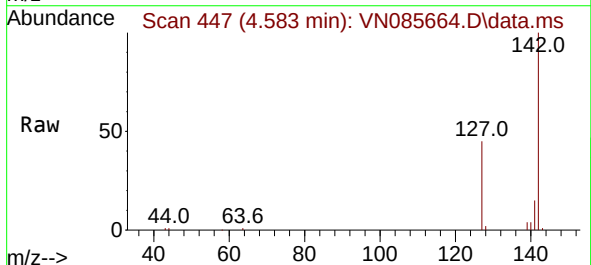
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

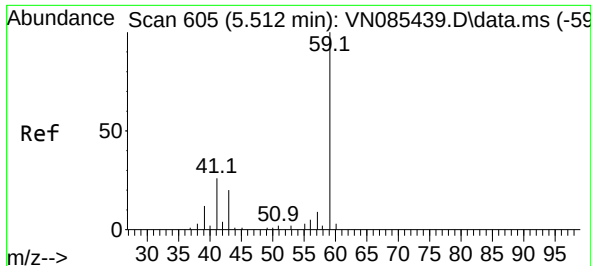
Tgt Ion:101 Resp: 130239
Ion Ratio Lower Upper
101 100
85 43.9 37.8 56.8
151 71.6 58.8 88.2



#10
Methyl Iodide
Concen: 57.456 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:142 Resp: 167001
Ion Ratio Lower Upper
142 100
127 45.5 40.3 60.5
141 14.8 12.8 19.2

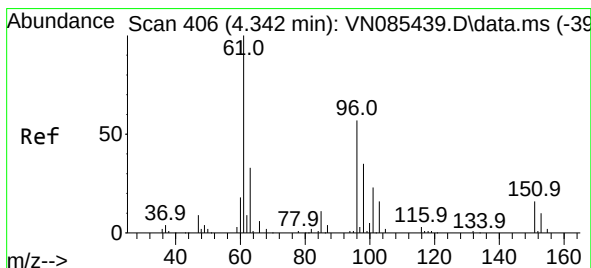
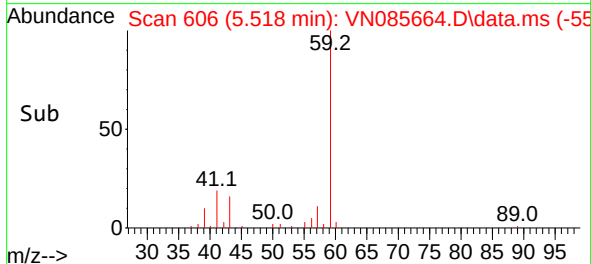
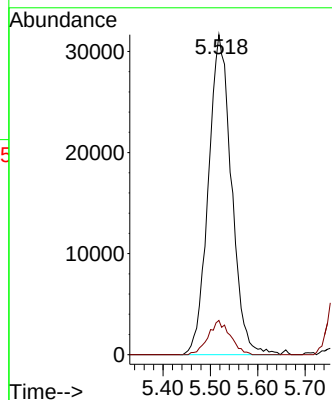
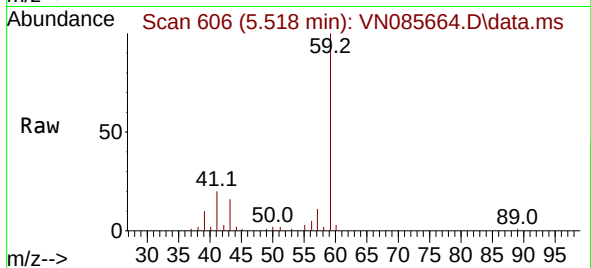




#11
Tert butyl alcohol
Concen: 275.633 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

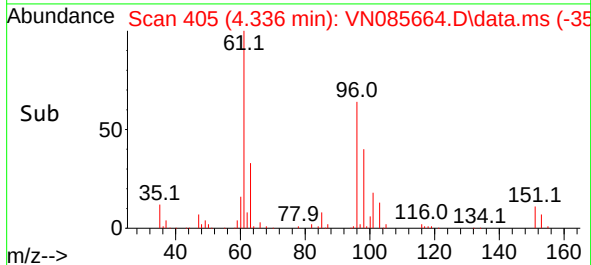
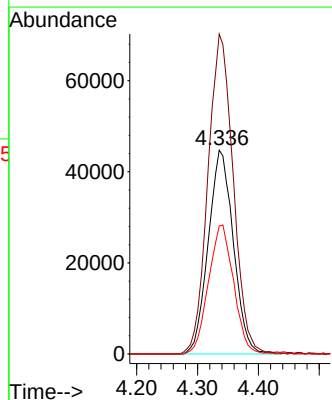
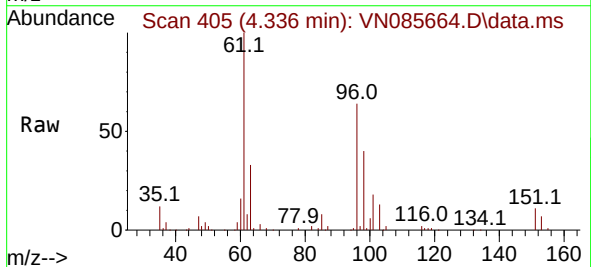
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

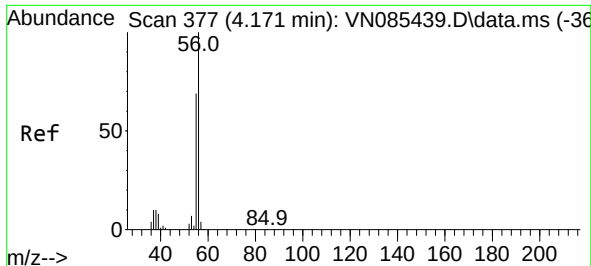
Tgt Ion: 59 Resp: 107381
Ion Ratio Lower Upper
59 100
57 10.2 8.6 13.0



#12
1,1-Dichloroethene
Concen: 56.652 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 96 Resp: 128149
Ion Ratio Lower Upper
96 100
61 157.0 141.0 211.4
98 62.8 49.0 73.6

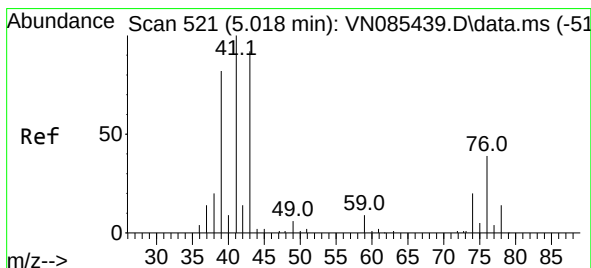
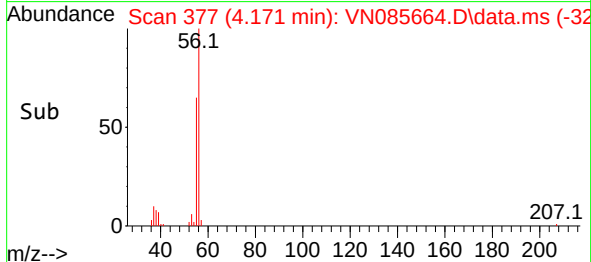
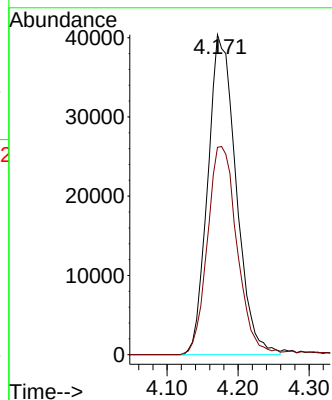
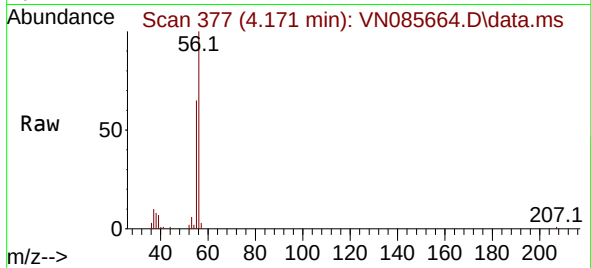




#13
Acrolein
Concen: 210.430 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

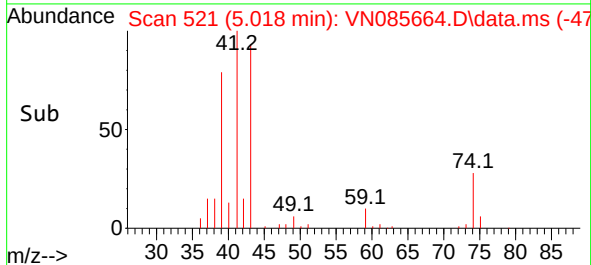
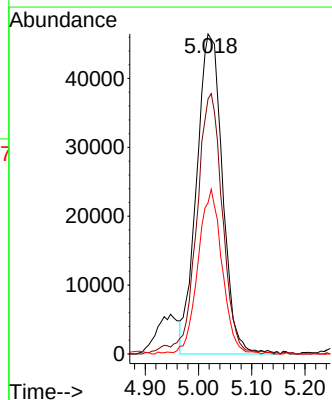
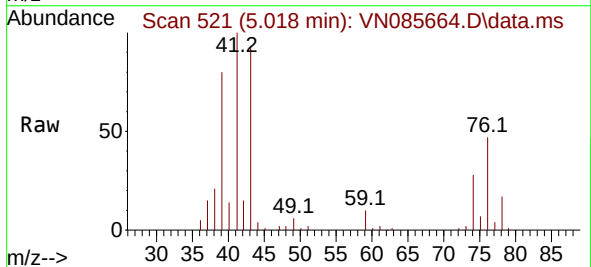
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

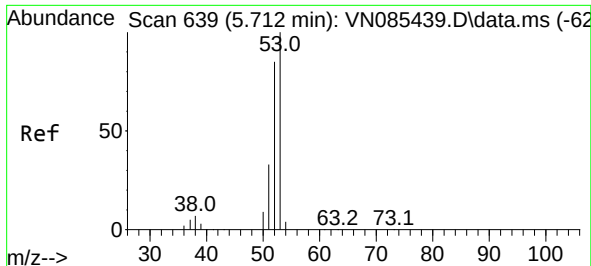
Tgt Ion: 56 Resp: 111909
Ion Ratio Lower Upper
56 100
55 68.1 56.3 84.5



#14
Allyl chloride
Concen: 42.748 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 41 Resp: 156910
Ion Ratio Lower Upper
41 100
39 81.4 64.4 96.6
76 48.1 30.5 45.7#

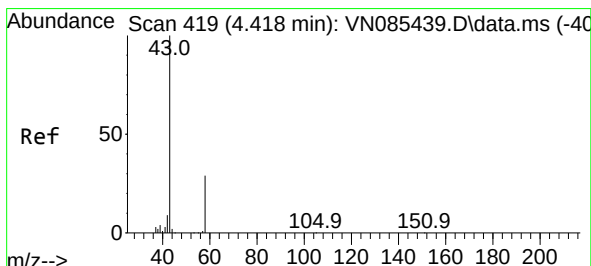
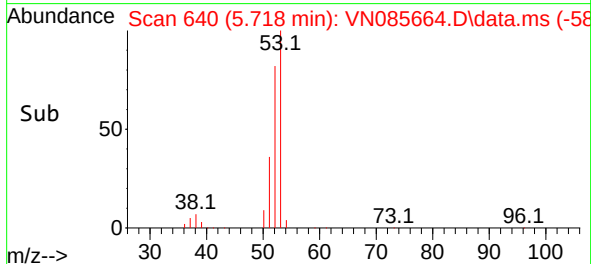
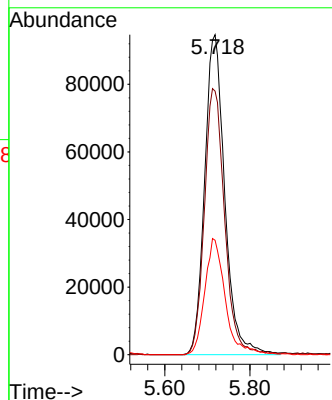
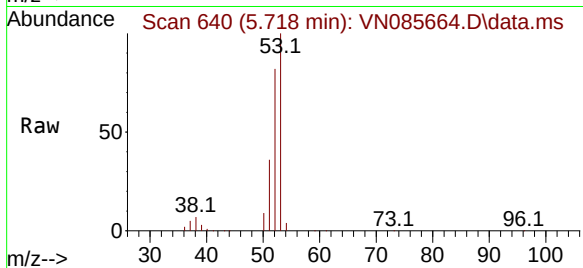




#15
Acrylonitrile
Concen: 250.976 ug/l
RT: 5.718 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

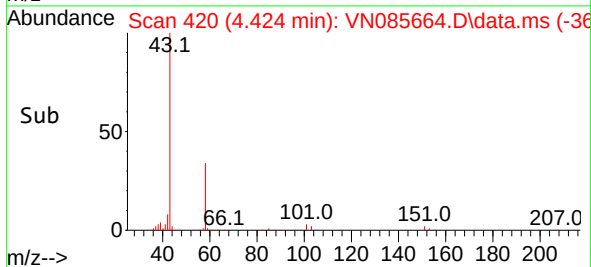
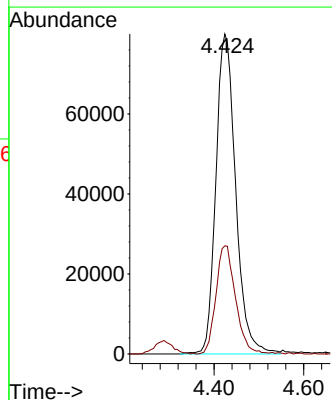
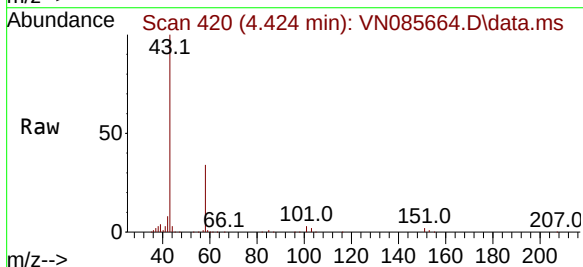
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

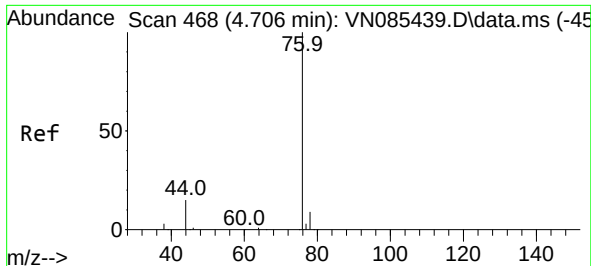
Tgt Ion:	53	Resp:	310565
Ion	Ratio	Lower	Upper
53	100		
52	83.6	65.5	98.3
51	36.8	29.8	44.8



#16
Acetone
Concen: 222.804 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:	43	Resp:	244927
Ion	Ratio	Lower	Upper
43	100		
58	33.4	23.8	35.6

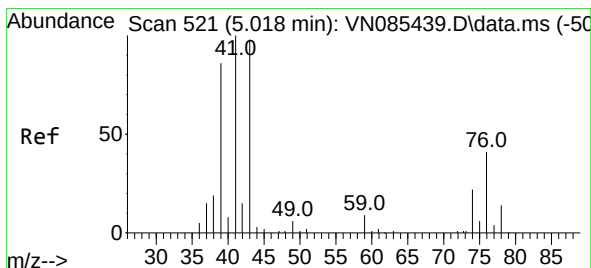
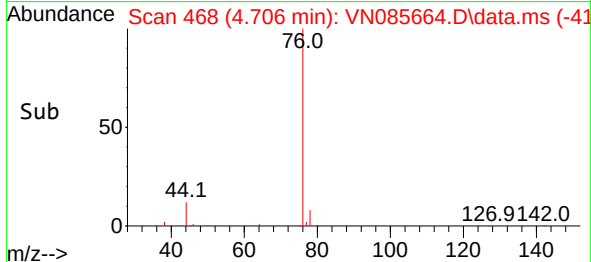
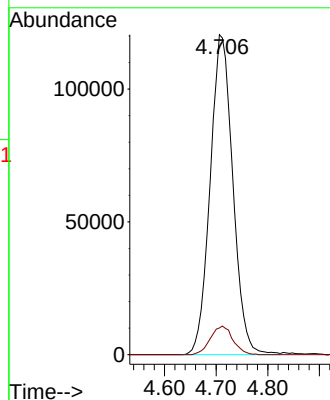
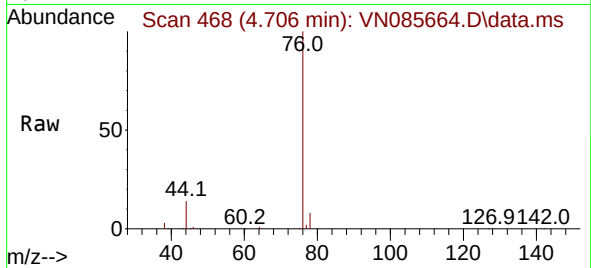




#17
Carbon Disulfide
Concen: 52.815 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

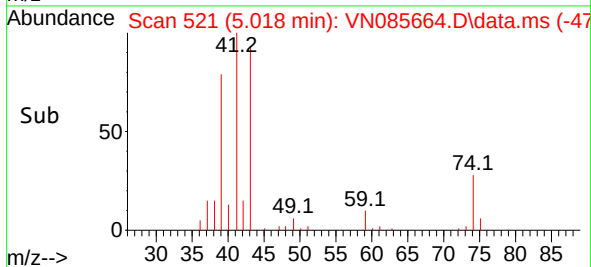
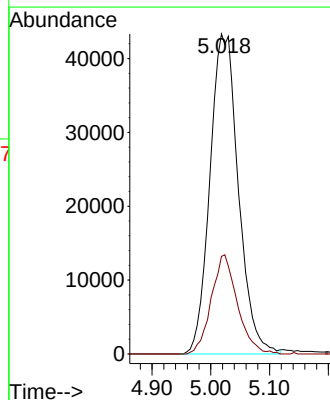
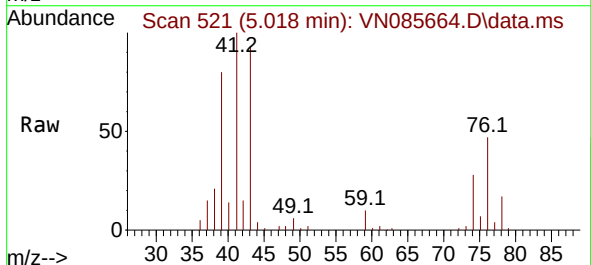
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

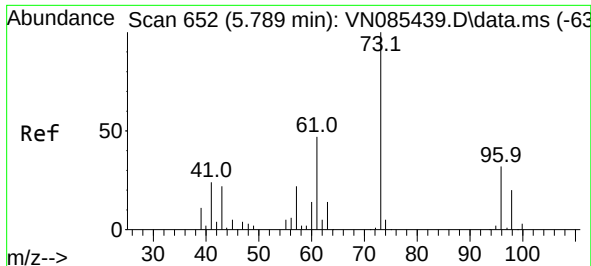
Tgt Ion: 76 Resp: 367842
Ion Ratio Lower Upper
76 100
78 8.4 6.9 10.3



#18
Methyl Acetate
Concen: 43.573 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 43 Resp: 145654
Ion Ratio Lower Upper
43 100
74 28.5 18.6 28.0#

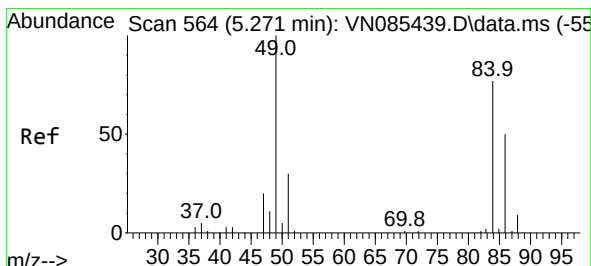
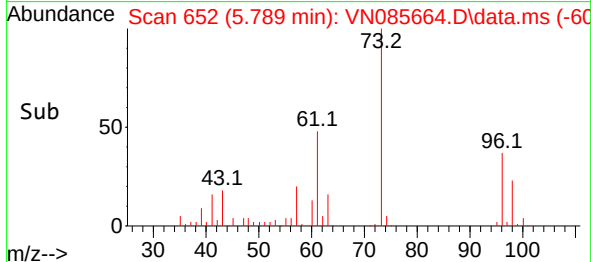
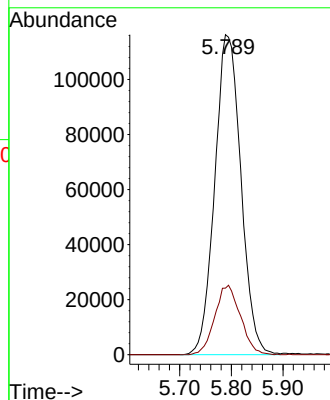
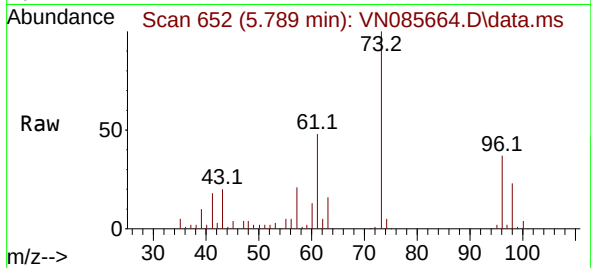




#19
Methyl tert-butyl Ether
Concen: 55.635 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

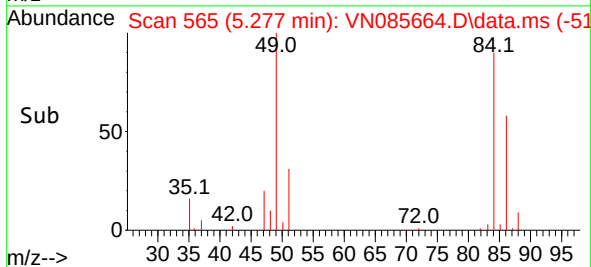
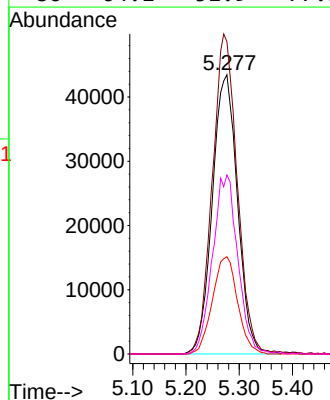
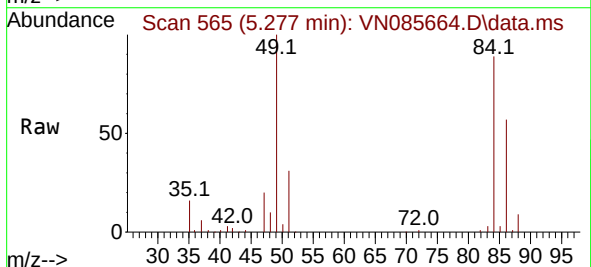
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

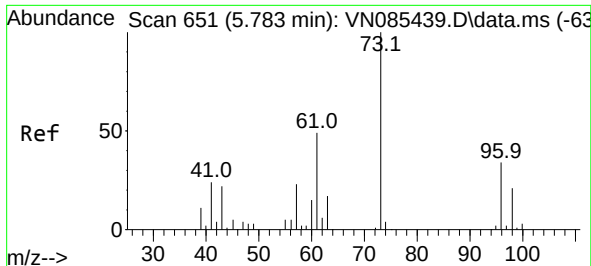
Tgt Ion: 73 Resp: 408643
Ion Ratio Lower Upper
73 100
57 20.8 17.8 26.8



#20
Methylene Chloride
Concen: 52.381 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 84 Resp: 142550
Ion Ratio Lower Upper
84 100
49 111.9 104.1 156.1
51 34.8 31.0 46.4
86 64.1 51.9 77.9

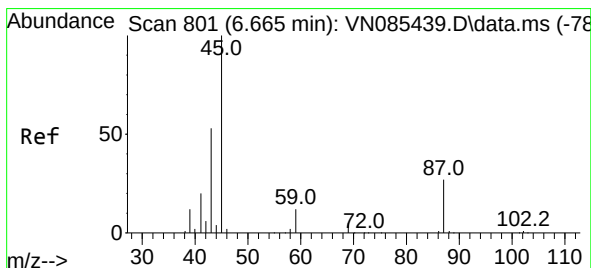
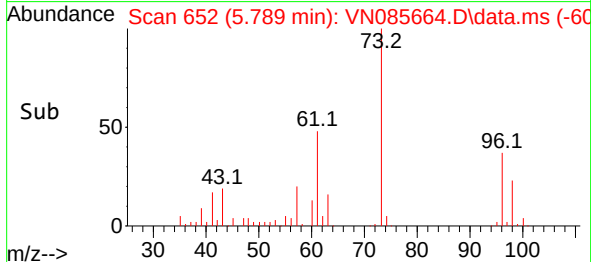
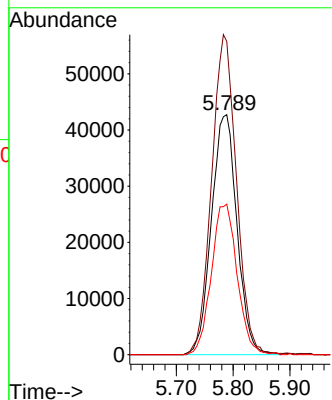
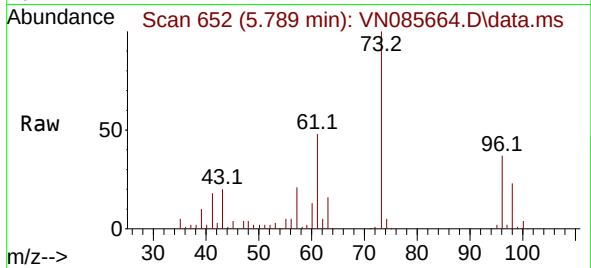




#21
trans-1,2-Dichloroethene
Concen: 55.262 ug/l
RT: 5.789 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

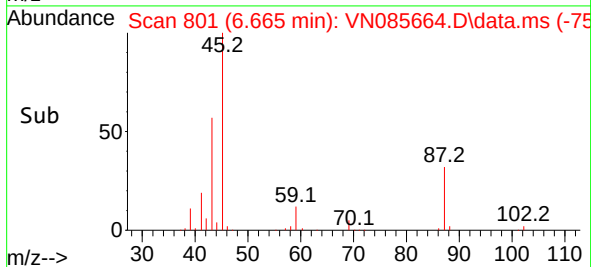
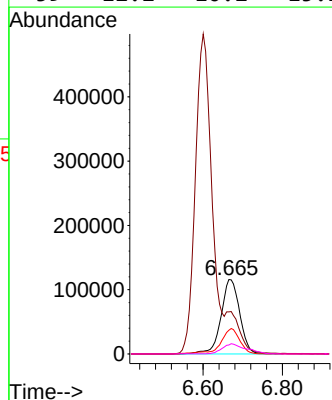
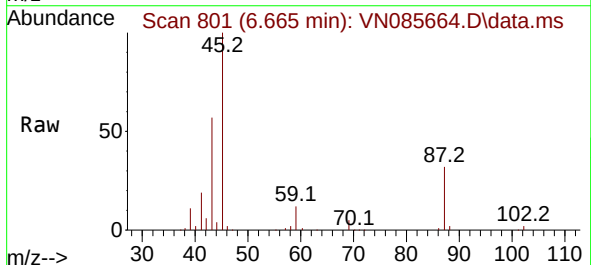
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

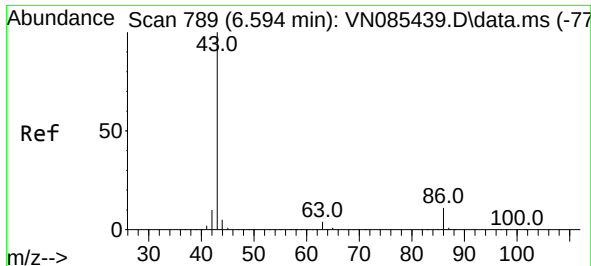
Tgt Ion: 96 Resp: 133593
Ion Ratio Lower Upper
96 100
61 130.5 115.7 173.5
98 62.7 49.8 74.8



#22
Diisopropyl ether
Concen: 46.502 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 45 Resp: 378858
Ion Ratio Lower Upper
45 100
43 55.9 45.0 67.6
87 31.7 21.8 32.8
59 12.2 10.2 15.2

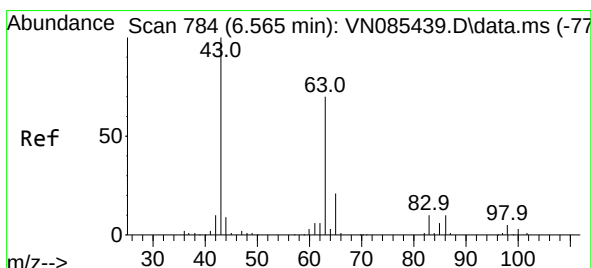
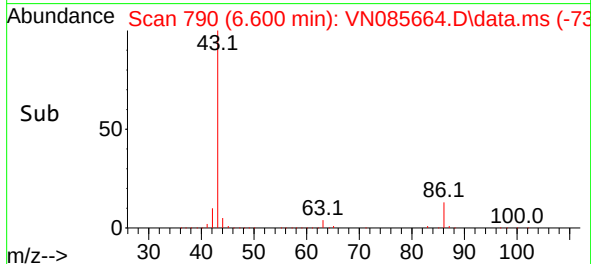
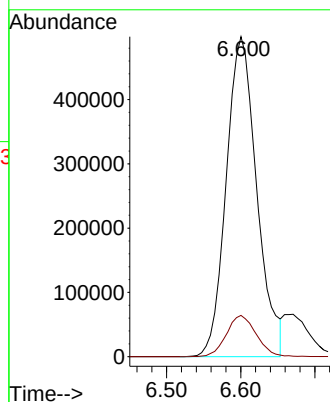
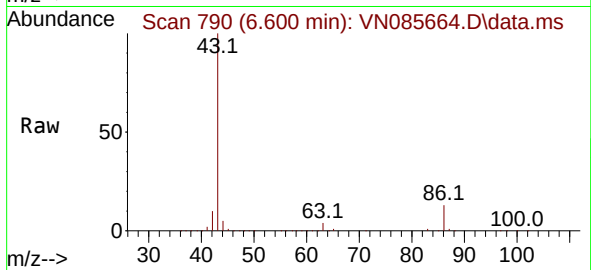




#23
 Vinyl Acetate
 Concen: 250.107 ug/l
 RT: 6.600 min Scan# 790
 Delta R.T. 0.006 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

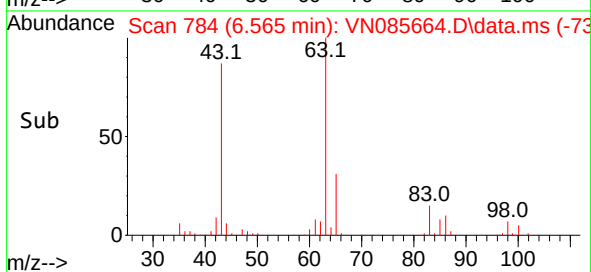
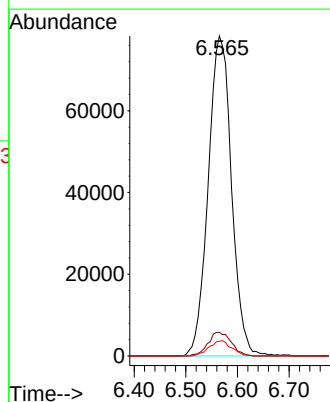
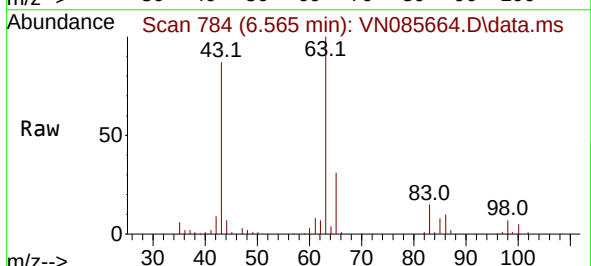
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

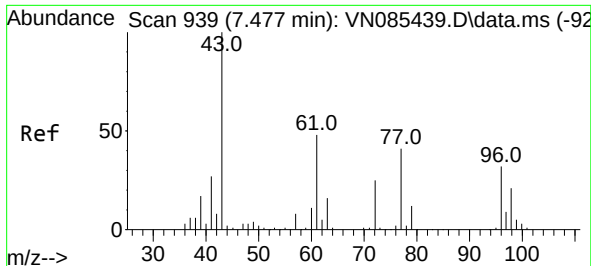
Tgt Ion: 43 Resp: 1426001
 Ion Ratio Lower Upper
 43 100
 86 12.9 8.4 12.6#



#24
 1,1-Dichloroethane
 Concen: 49.375 ug/l
 RT: 6.565 min Scan# 784
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

Tgt Ion: 63 Resp: 245281
 Ion Ratio Lower Upper
 63 100
 98 7.4 3.3 9.8
 100 4.6 2.0 6.0

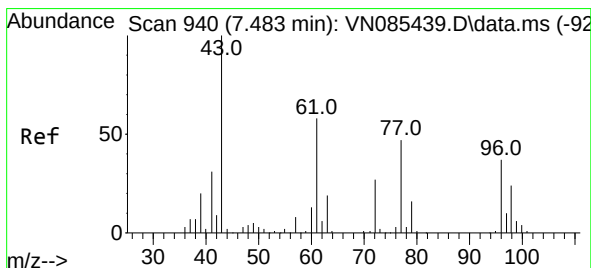
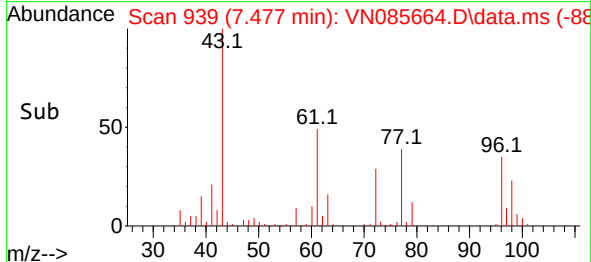
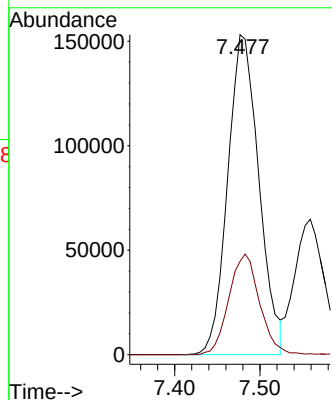
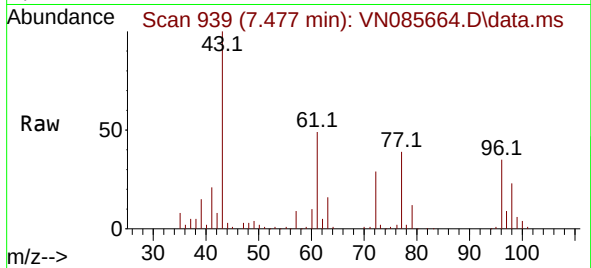




#25
2-Butanone
Concen: 241.200 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

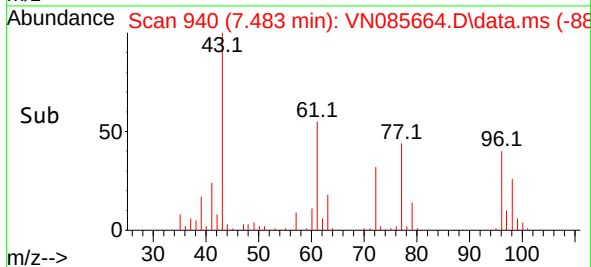
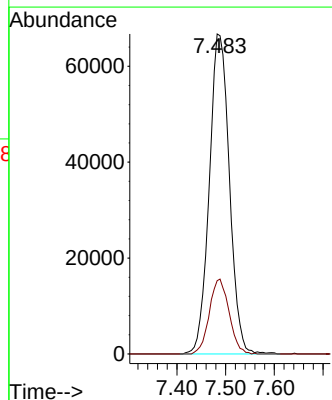
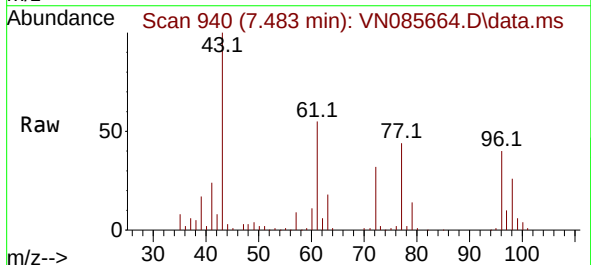
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

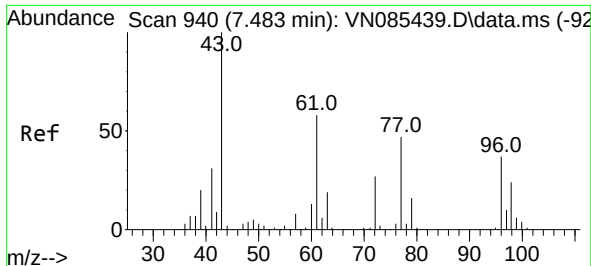
Tgt Ion: 43 Resp: 390192
Ion Ratio Lower Upper
43 100
72 29.2 20.2 30.4



#26
2,2-Dichloropropane
Concen: 47.643 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 77 Resp: 191354
Ion Ratio Lower Upper
77 100
97 22.9 10.7 32.1





#27

cis-1,2-Dichloroethene

Concen: 55.030 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

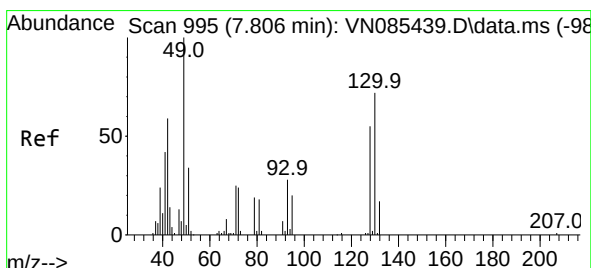
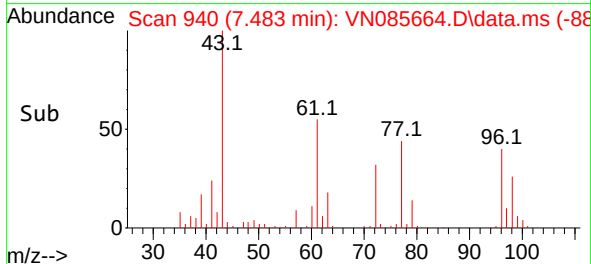
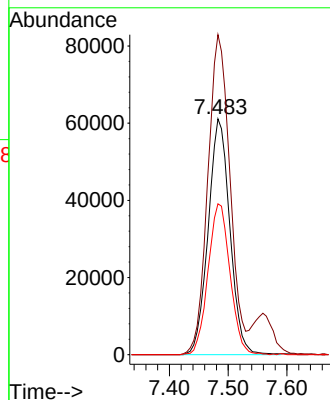
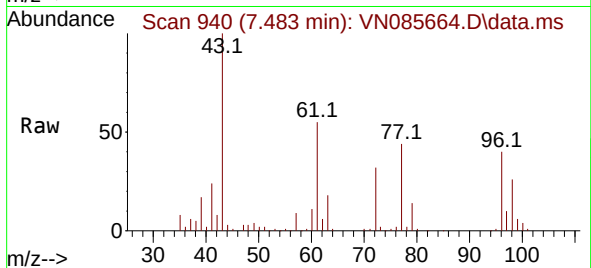
Tgt Ion: 96 Resp: 156691

Ion Ratio Lower Upper

96 100

61 137.9 0.0 311.8

98 64.7 0.0 126.0



#28

Bromochloromethane

Concen: 37.096 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

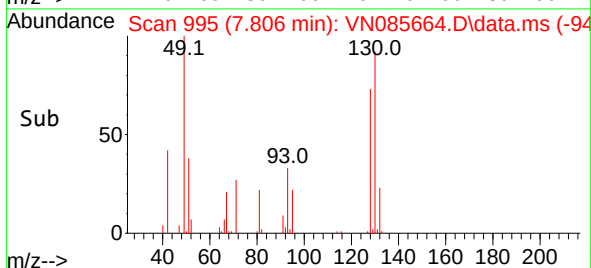
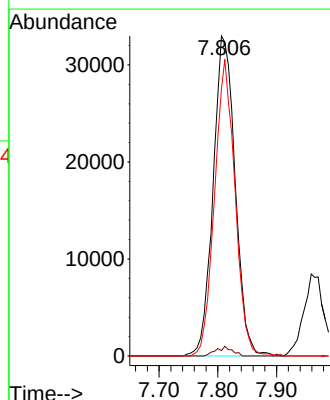
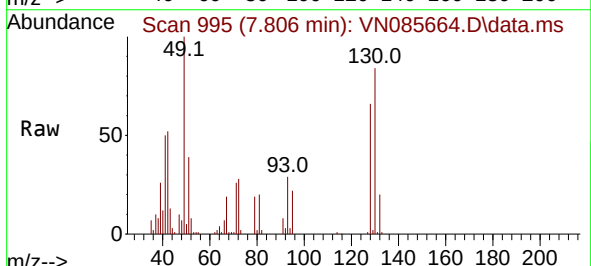
Tgt Ion: 49 Resp: 85736

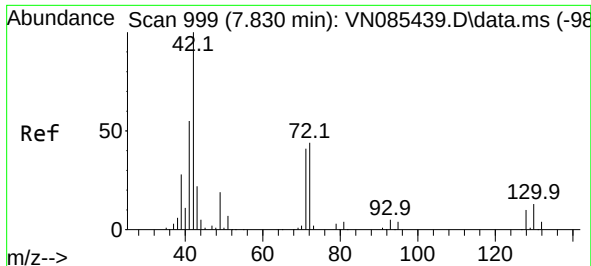
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 85.9 55.0 82.4#





#29

Tetrahydrofuran

Concen: 254.248 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085664.D

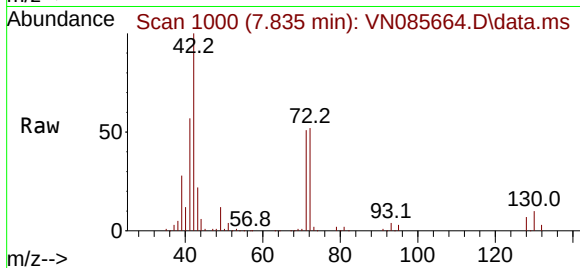
Acq: 04 Feb 2025 20:15

Instrument :

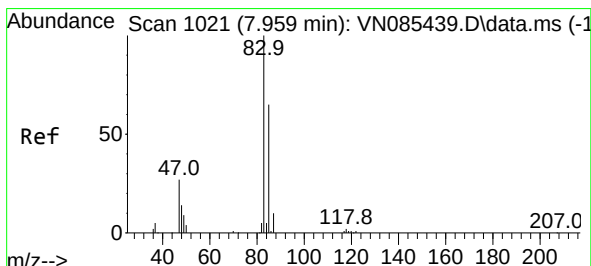
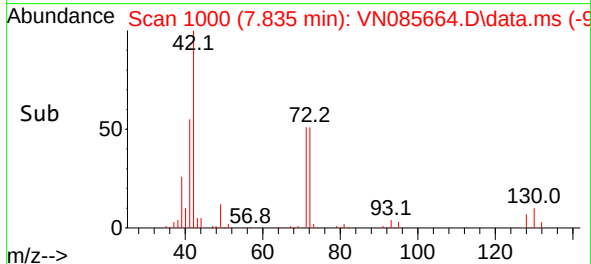
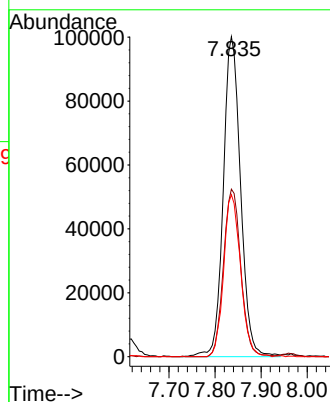
MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion:	42	Resp:	260766
Ion Ratio	Lower	Upper	
42	100		
72	52.3	34.2	51.2#
71	49.4	32.5	48.7#



#30

Chloroform

Concen: 49.133 ug/l

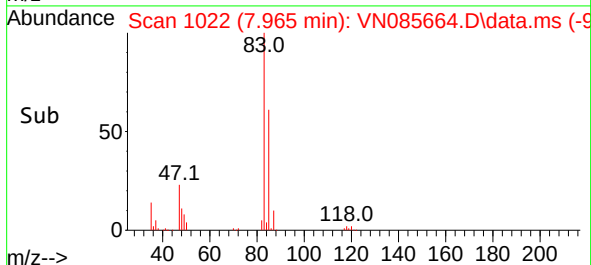
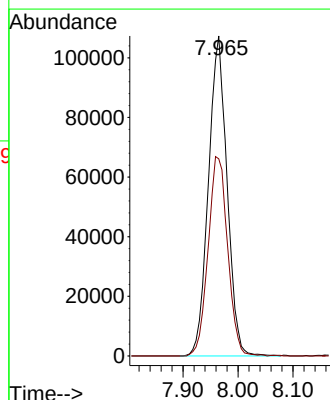
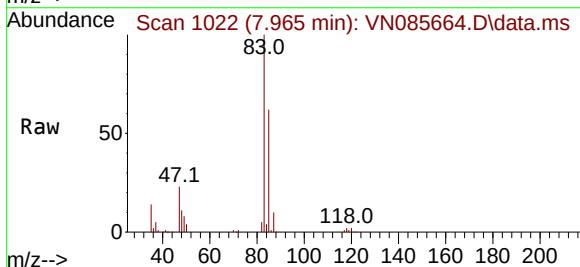
RT: 7.965 min Scan# 1022

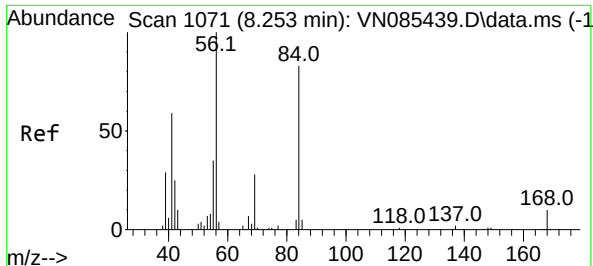
Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

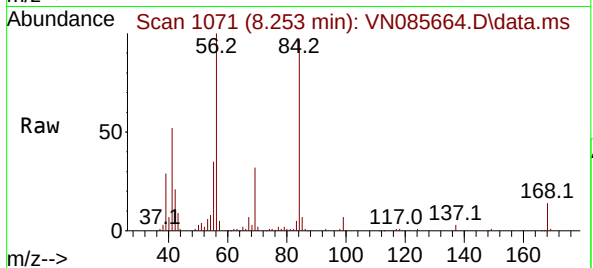
Tgt Ion:	83	Resp:	252262
Ion Ratio	Lower	Upper	
83	100		
85	61.6	51.8	77.6



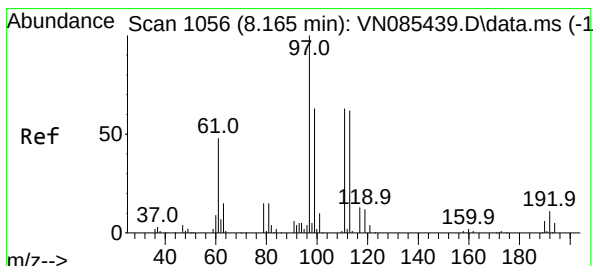
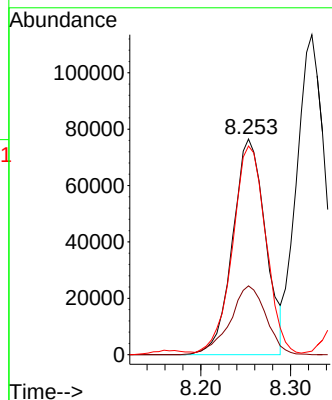
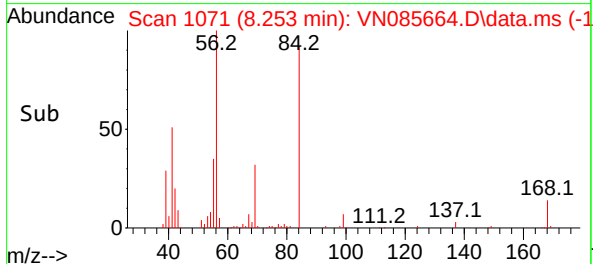


#31
Cyclohexane
Concen: 44.998 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

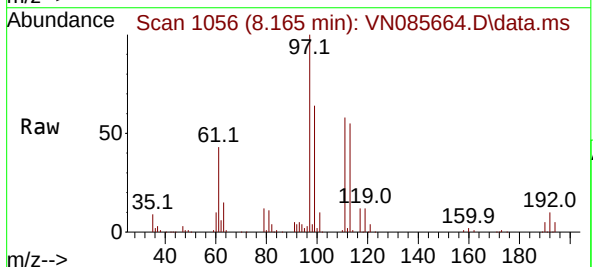
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



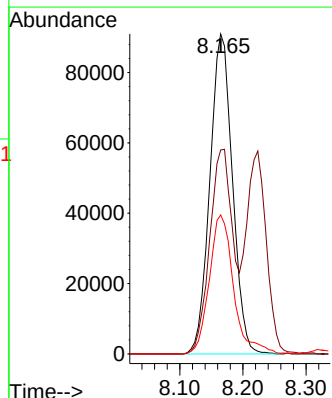
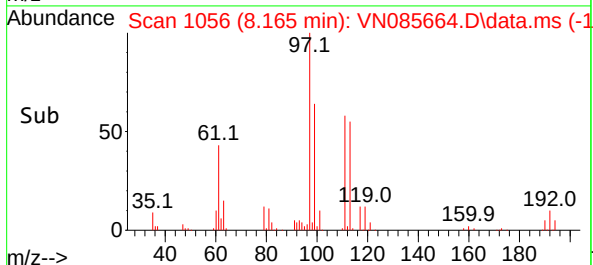
Tgt Ion: 56 Resp: 194293
Ion Ratio Lower Upper
56 100
69 31.9 22.2 33.4
84 95.1 66.4 99.6

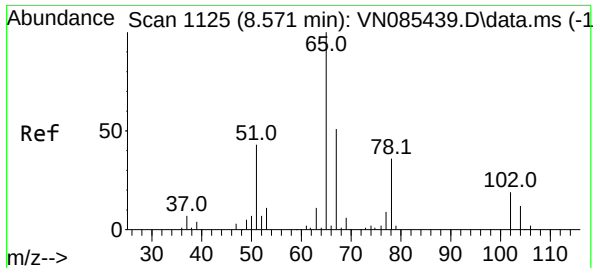


#32
1,1,1-Trichloroethane
Concen: 50.093 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15



Tgt Ion: 97 Resp: 225602
Ion Ratio Lower Upper
97 100
99 65.9 49.8 74.6
61 46.9 41.4 62.2

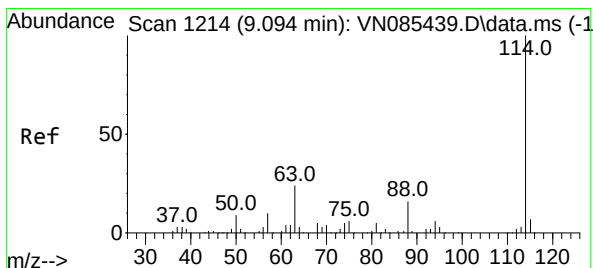
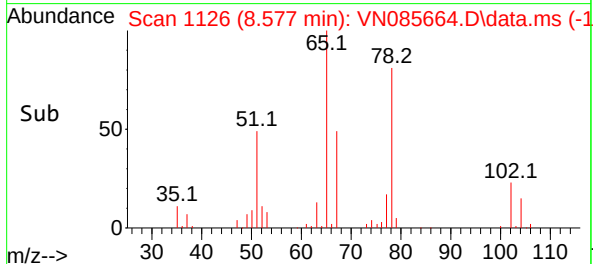
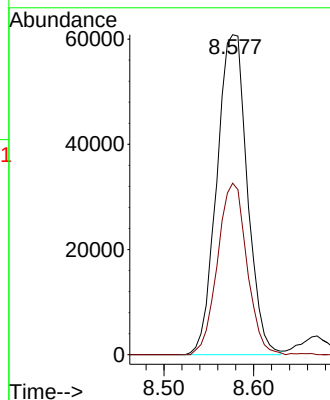
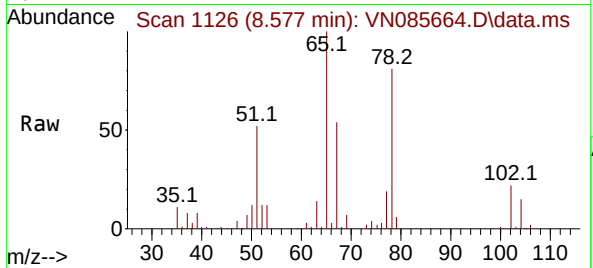




#33
 1,2-Dichloroethane-d4
 Concen: 42.127 ug/l
 RT: 8.577 min Scan# 1125
 Delta R.T. 0.006 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

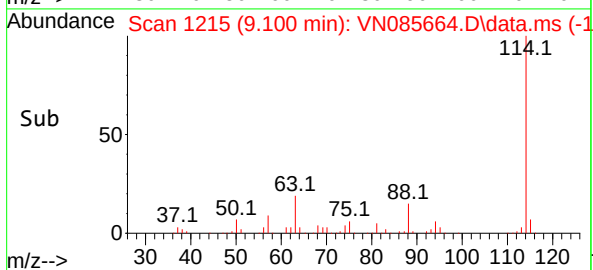
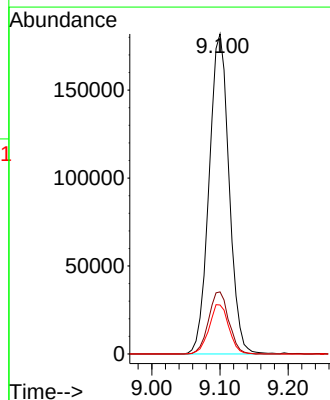
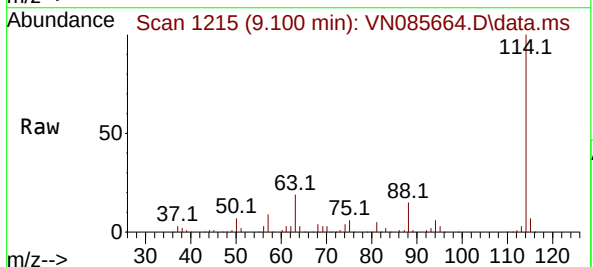
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

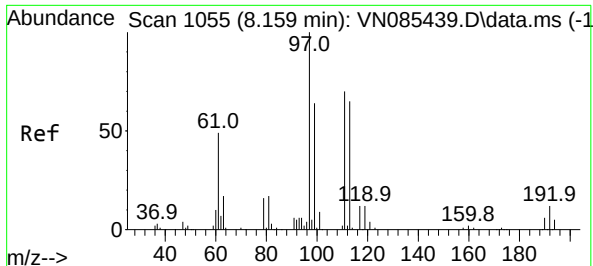
Tgt Ion: 65 Resp: 143328
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.006 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

Tgt Ion: 114 Resp: 370923
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 47.6
 88 15.3 0.0 32.6

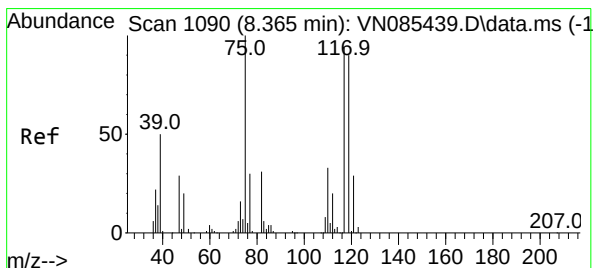
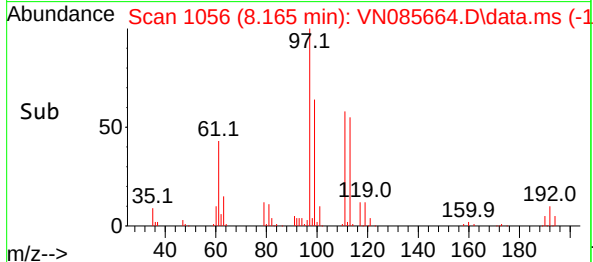
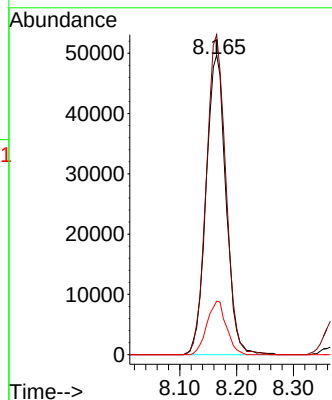
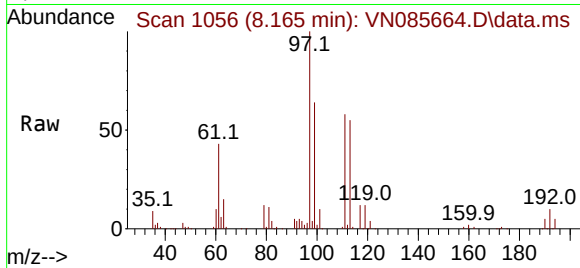




#35
Dibromofluoromethane
Concen: 46.791 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

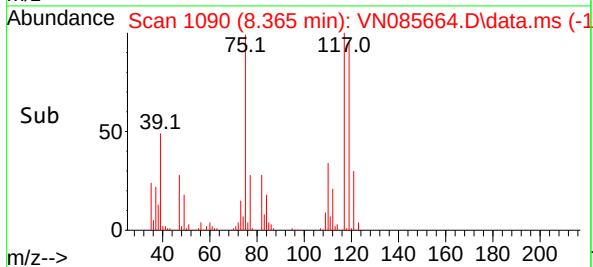
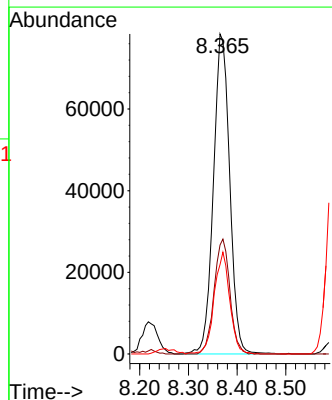
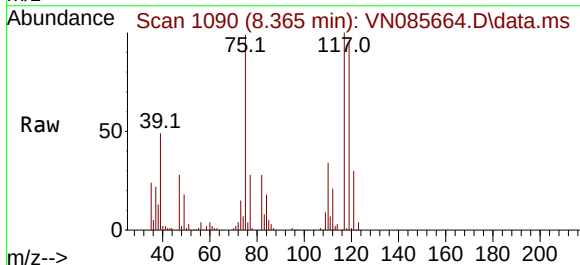
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

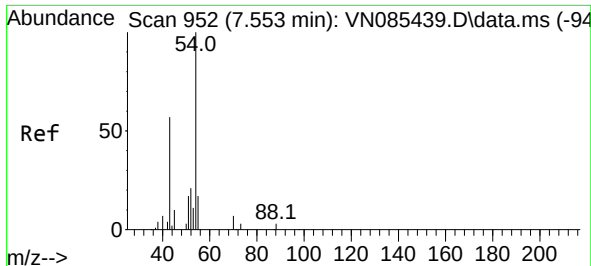
Tgt Ion:113 Resp: 120407
Ion Ratio Lower Upper
113 100
111 105.1 82.7 124.1
192 17.4 14.3 21.5



#36
1,1-Dichloropropene
Concen: 50.496 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 75 Resp: 182370
Ion Ratio Lower Upper
75 100
110 34.8 16.5 49.5
77 30.3 24.4 36.6





#37

Ethyl Acetate

Concen: 44.271 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

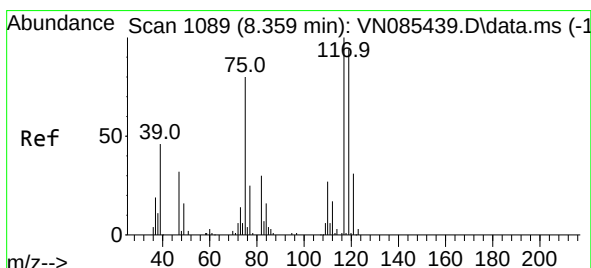
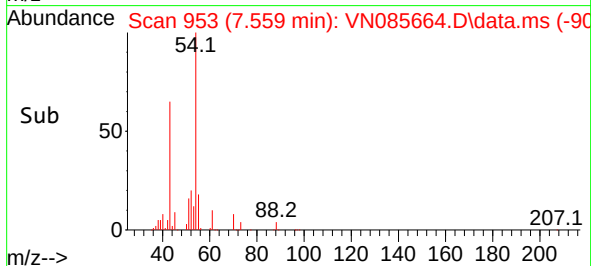
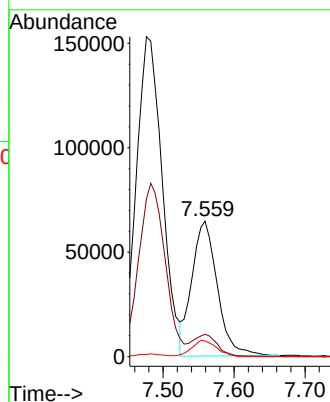
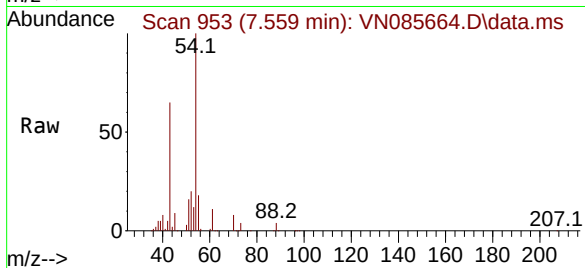
Tgt Ion: 43 Resp: 161385

Ion Ratio Lower Upper

43 100

61 15.4 10.9 16.3

70 11.7 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 49.323 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

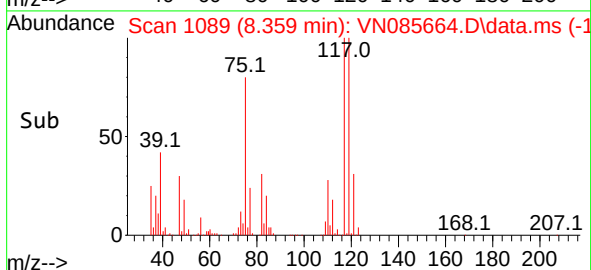
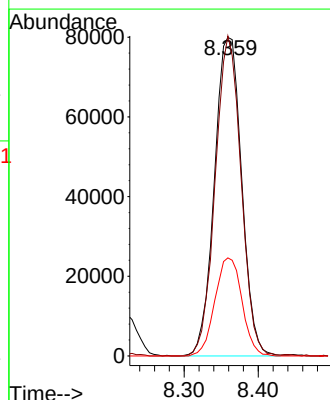
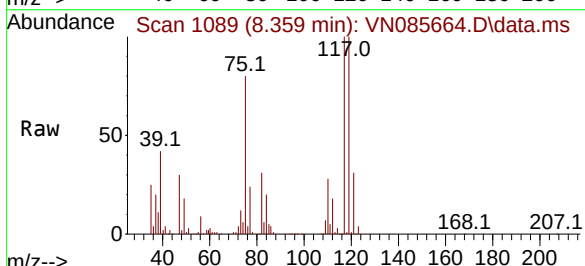
Tgt Ion: 117 Resp: 203933

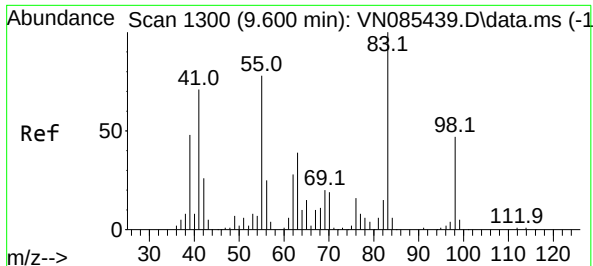
Ion Ratio Lower Upper

117 100

119 100.5 75.4 113.2

121 30.8 24.6 37.0





#39

Methylcyclohexane

Concen: 52.749 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

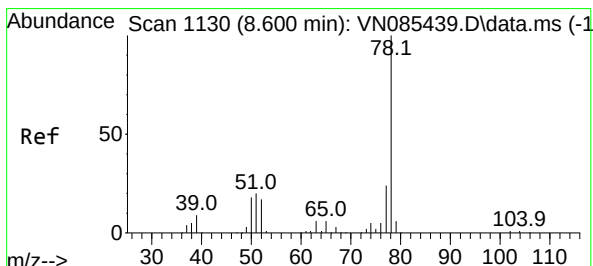
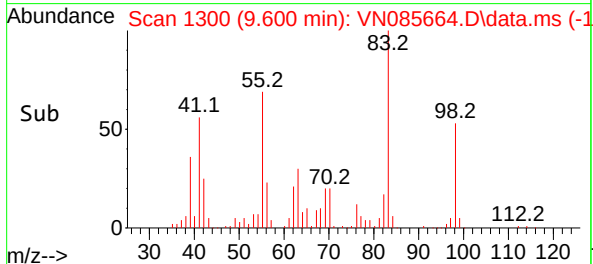
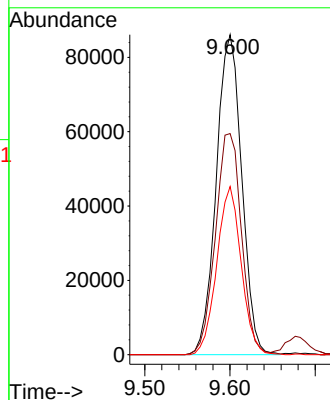
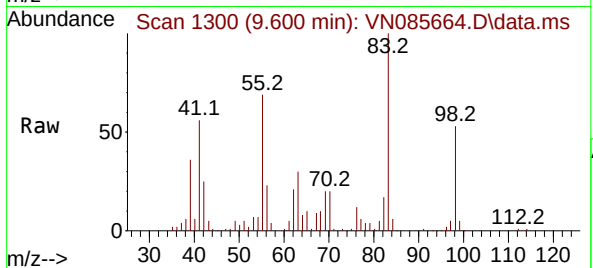
Tgt Ion: 83 Resp: 179020

Ion Ratio Lower Upper

83 100

55 69.1 62.6 94.0

98 52.5 37.7 56.5



#40

Benzene

Concen: 51.903 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085664.D

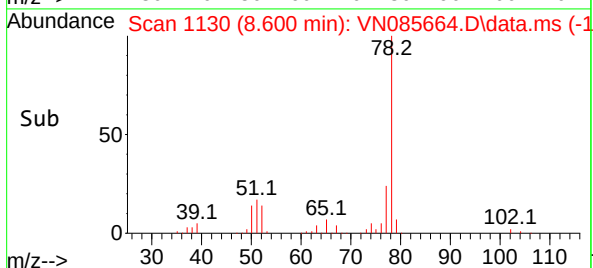
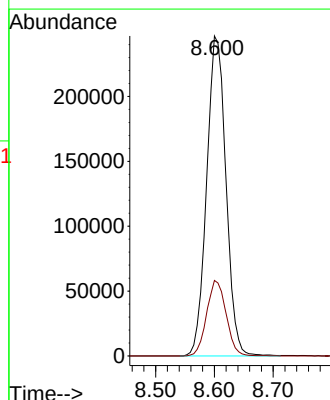
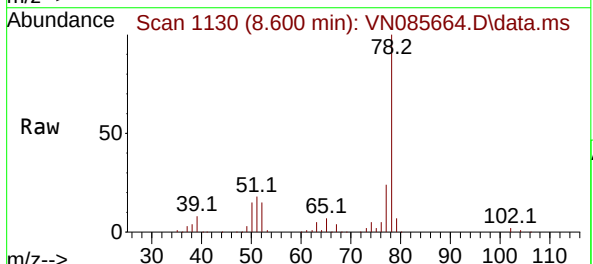
Acq: 04 Feb 2025 20:15

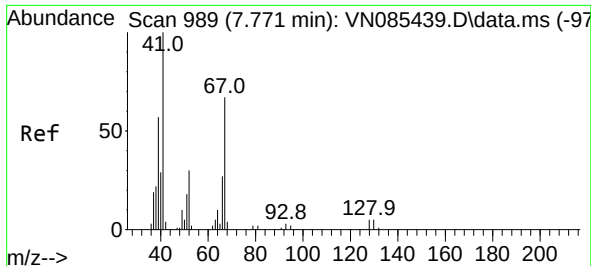
Tgt Ion: 78 Resp: 563231

Ion Ratio Lower Upper

78 100

77 23.6 19.0 28.6

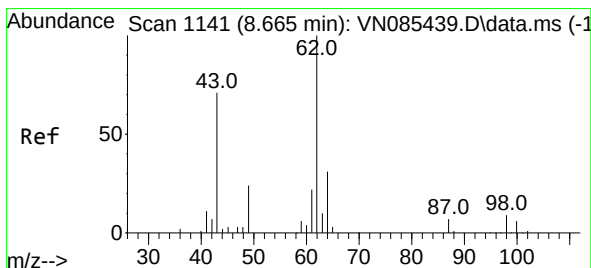
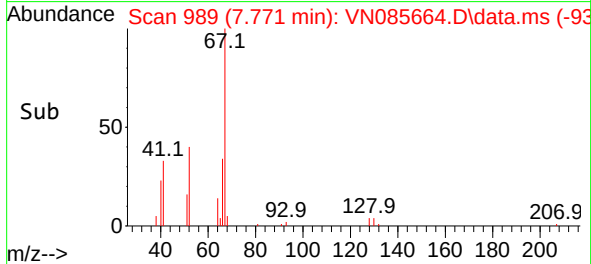
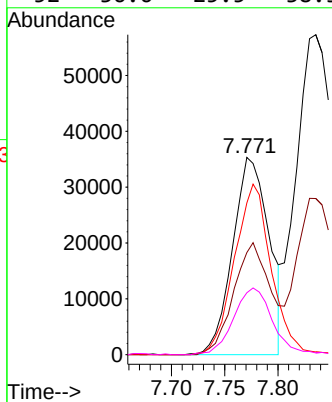
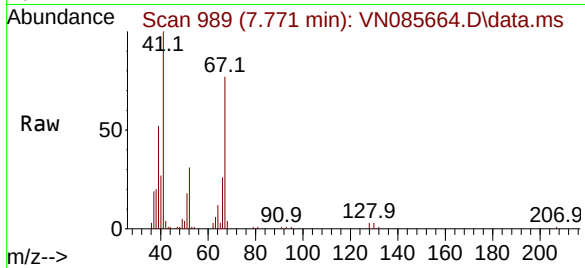




#41
Methacrylonitrile
Concen: 44.255 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

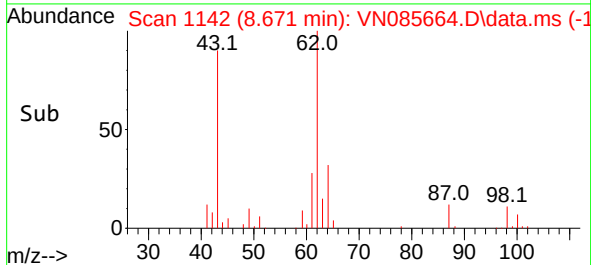
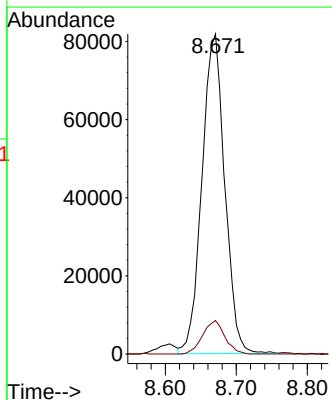
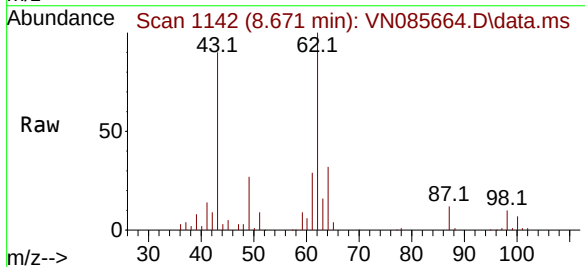
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

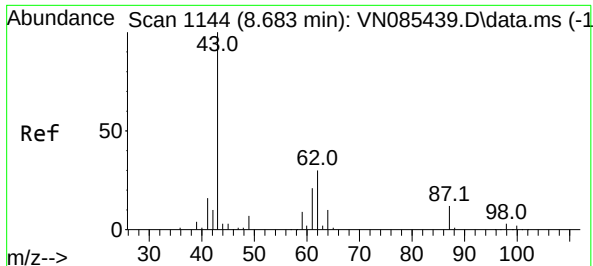
Tgt Ion:	41	Resp:	83931
Ion	Ratio	Lower	Upper
41	100		
39	59.4	46.0	69.0
67	87.9	57.4	86.2#
52	36.6	25.5	38.3



#42
1,2-Dichloroethane
Concen: 44.642 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:	62	Resp:	182452
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	17.0

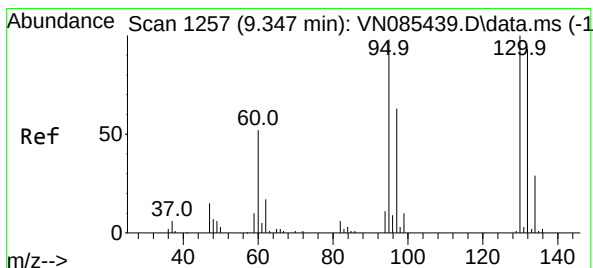
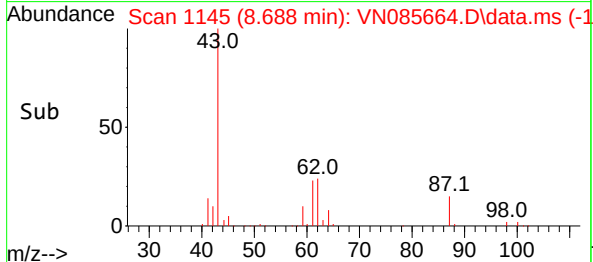
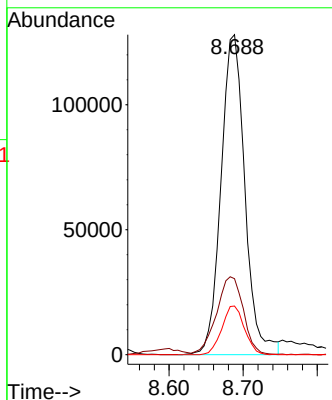
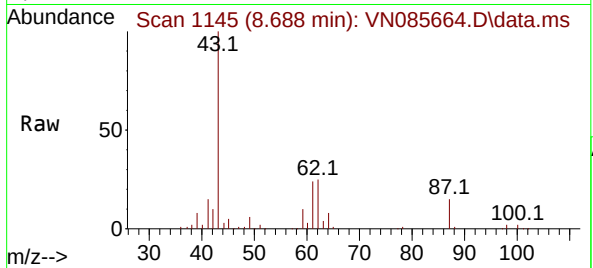




#43
Isopropyl Acetate
Concen: 49.118 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

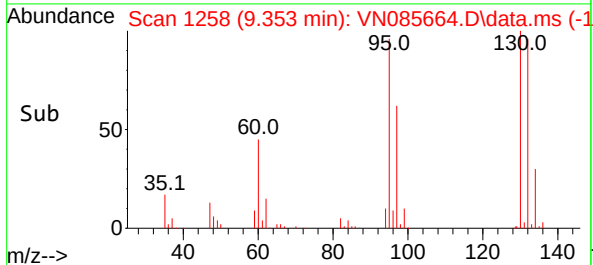
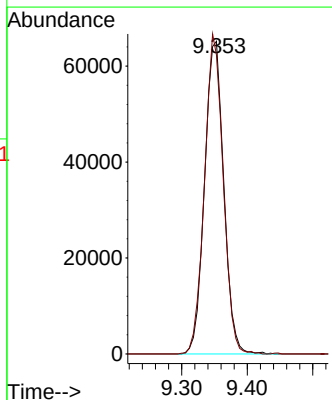
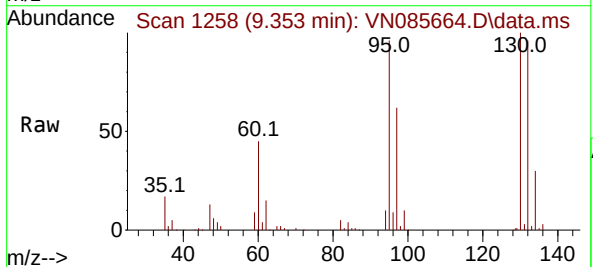
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

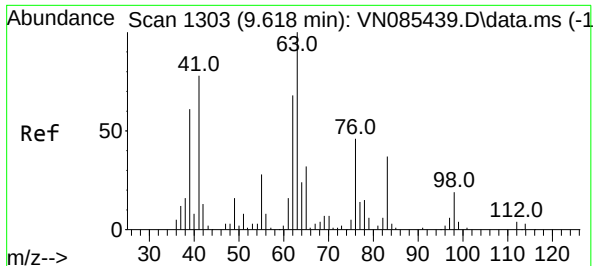
Tgt Ion: 43 Resp: 286907
Ion Ratio Lower Upper
43 100
61 27.4 20.7 31.1
87 14.3 9.8 14.8



#44
Trichloroethene
Concen: 52.726 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 130 Resp: 133186
Ion Ratio Lower Upper
130 100
95 95.6 0.0 195.8





#45

1,2-Dichloropropane

Concen: 47.761 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

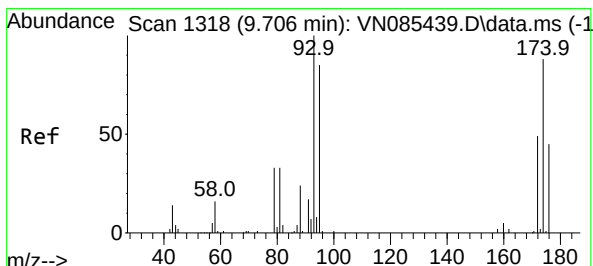
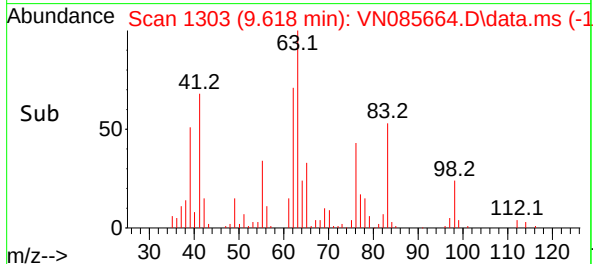
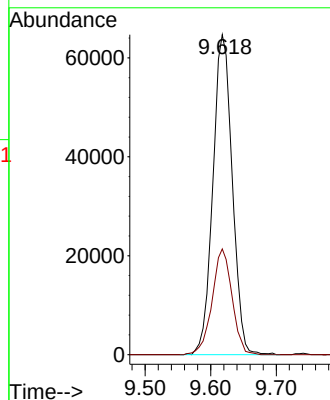
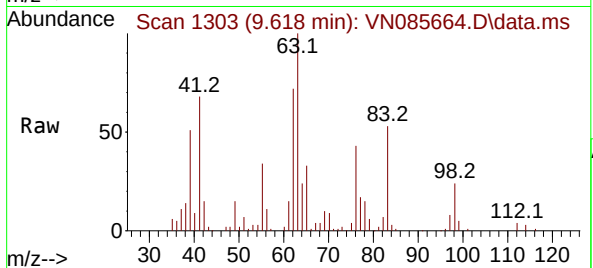
VSTDCCC050EC

Tgt Ion: 63 Resp: 132383

Ion Ratio Lower Upper

63 100

65 33.0 25.6 38.4



#46

Dibromomethane

Concen: 49.589 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

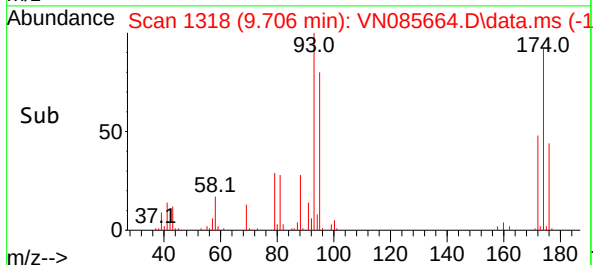
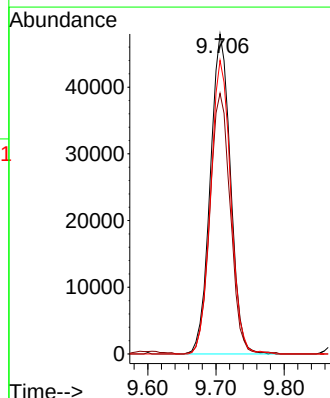
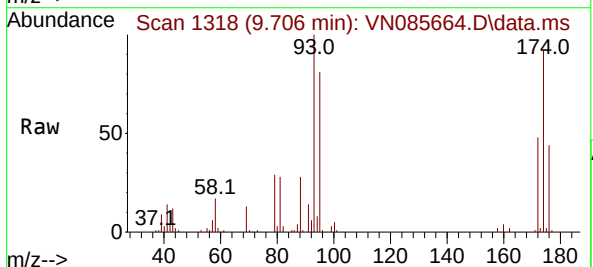
Tgt Ion: 93 Resp: 99179

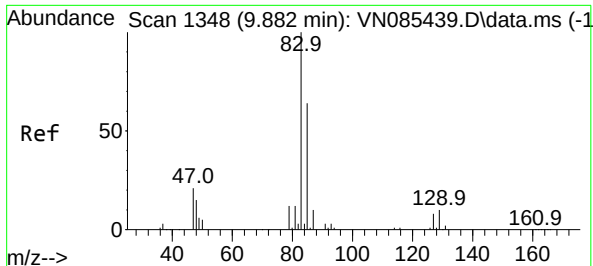
Ion Ratio Lower Upper

93 100

95 81.7 64.7 97.1

174 91.2 69.0 103.4

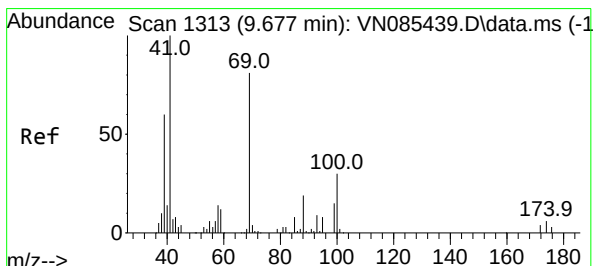
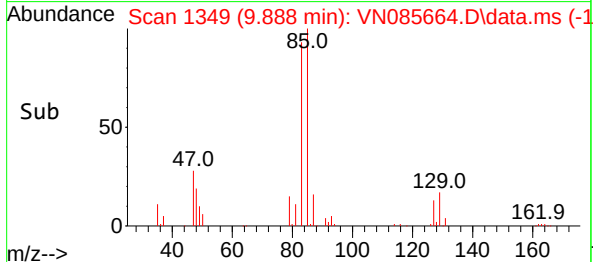
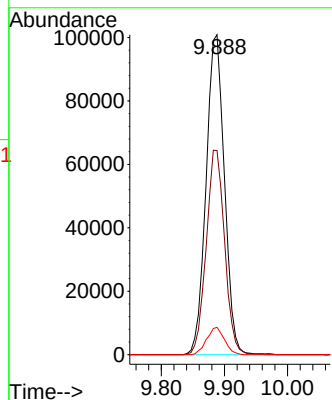
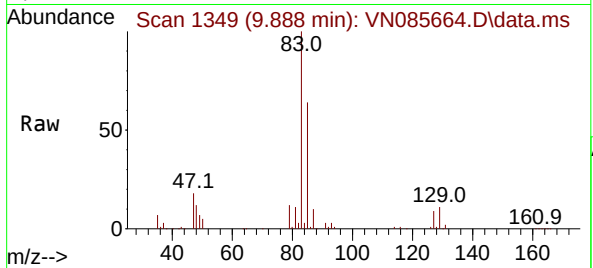




#47
Bromodichloromethane
Concen: 49.998 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

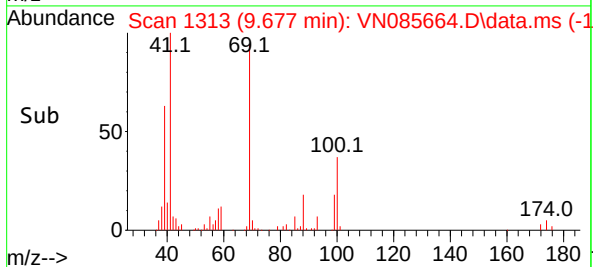
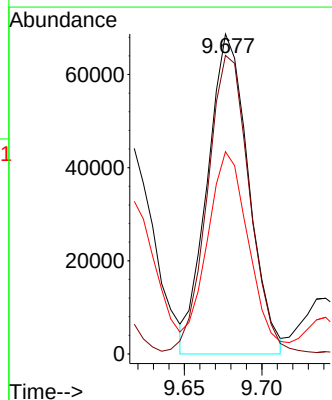
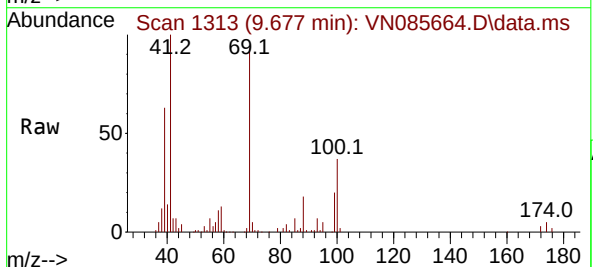
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

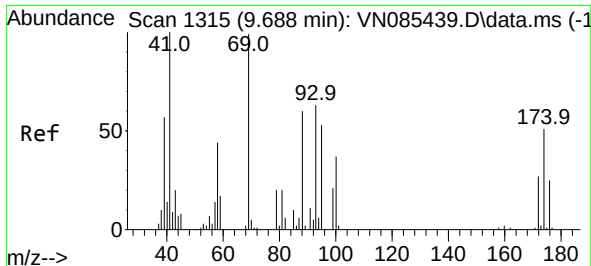
Tgt Ion: 83 Resp: 203722
Ion Ratio Lower Upper
83 100
85 63.8 51.2 76.8
127 8.5 6.5 9.7



#48
Methyl methacrylate
Concen: 48.223 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 41 Resp: 126761
Ion Ratio Lower Upper
41 100
69 96.7 64.7 97.1
39 64.8 49.0 73.6





#49

1,4-Dioxane

Concen: 1074.167 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

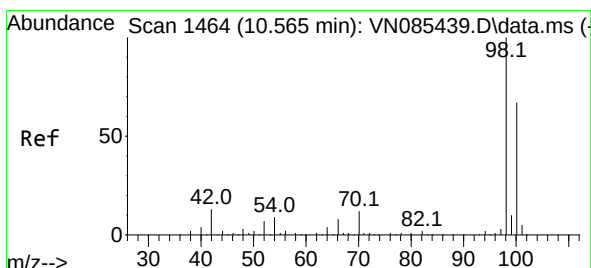
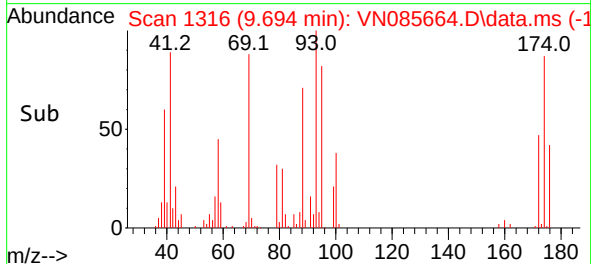
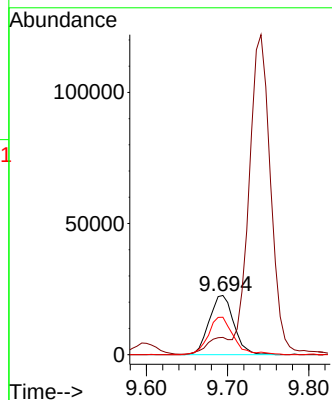
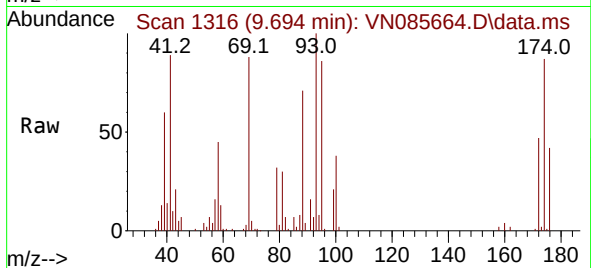
Tgt Ion: 88 Resp: 47549

Ion Ratio Lower Upper

88 100

43 24.9 26.6 39.8#

58 65.3 59.5 89.3



#50

Toluene-d8

Concen: 48.662 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085664.D

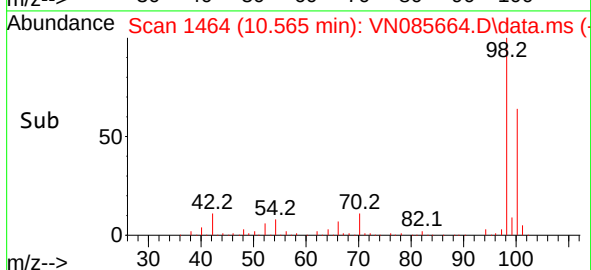
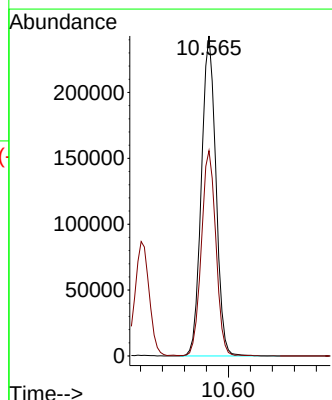
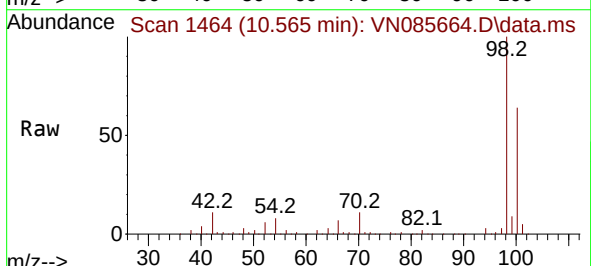
Acq: 04 Feb 2025 20:15

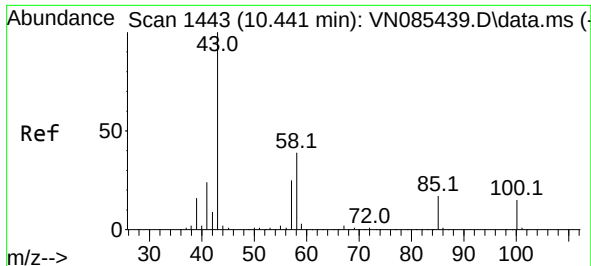
Tgt Ion: 98 Resp: 444909

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4

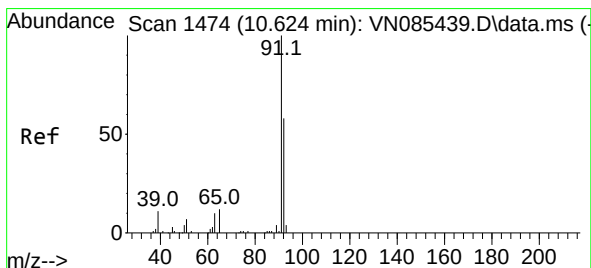
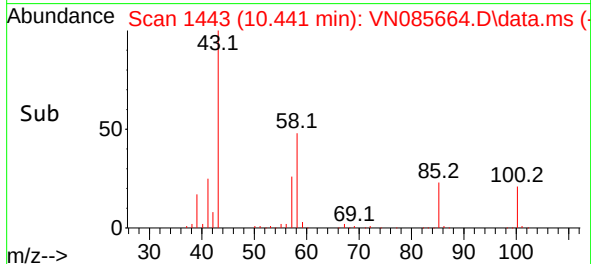
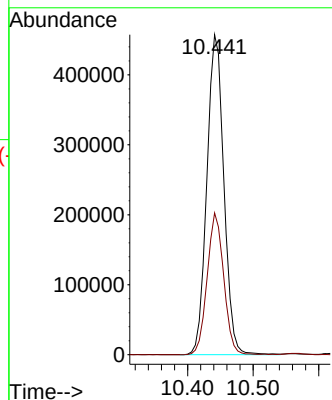
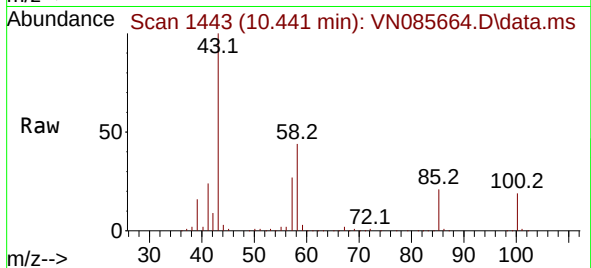




#51
4-Methyl-2-Pentanone
Concen: 243.652 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

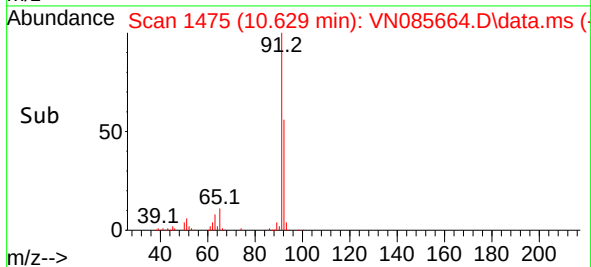
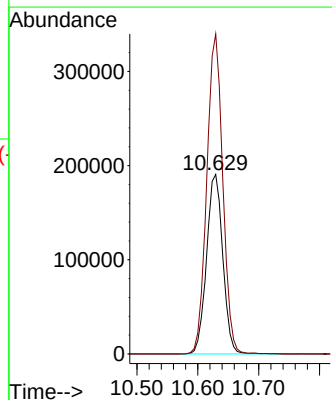
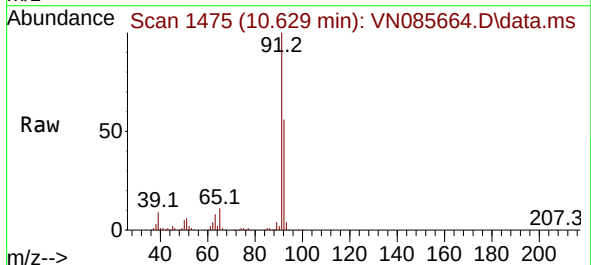
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

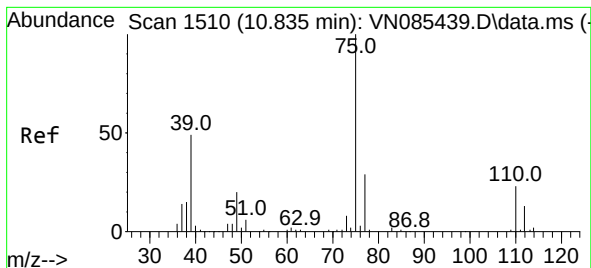
Tgt Ion: 43 Resp: 825866
Ion Ratio Lower Upper
43 100
58 43.1 30.5 45.7



#52
Toluene
Concen: 56.008 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 92 Resp: 352156
Ion Ratio Lower Upper
92 100
91 175.8 139.2 208.8

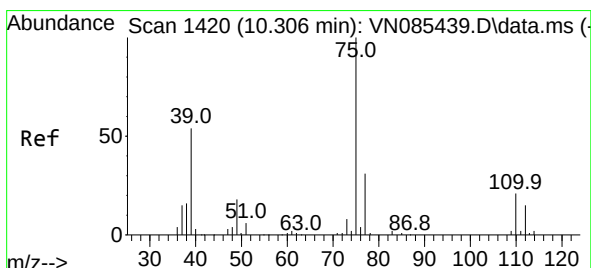
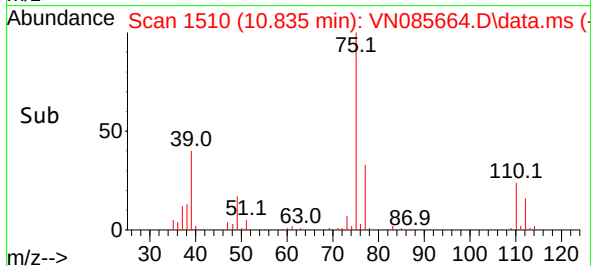
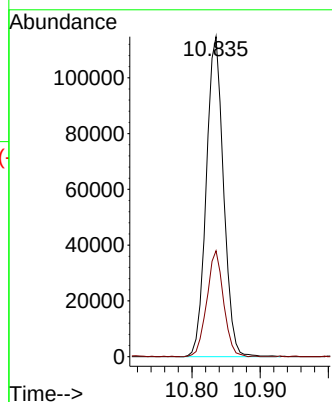
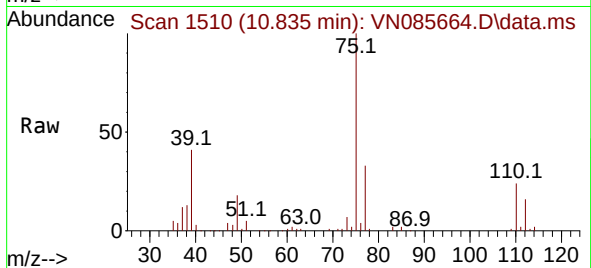




#53
t-1,3-Dichloropropene
Concen: 52.428 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

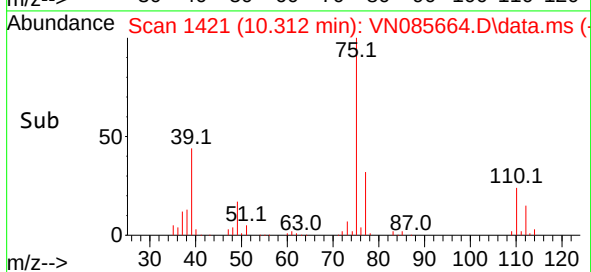
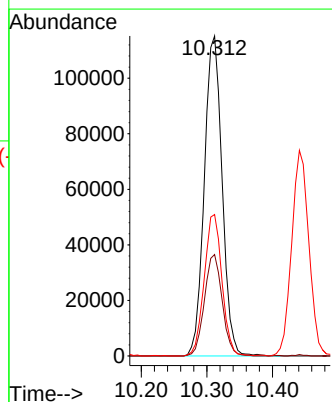
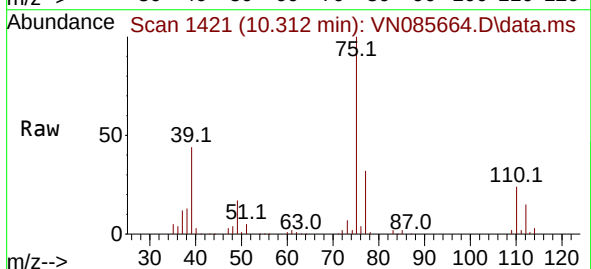
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

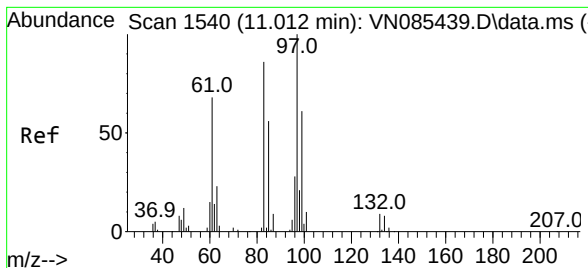
Tgt Ion: 75 Resp: 201882
Ion Ratio Lower Upper
75 100
77 33.1 23.5 35.3



#54
cis-1,3-Dichloropropene
Concen: 52.999 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 75 Resp: 217990
Ion Ratio Lower Upper
75 100
77 31.7 25.0 37.4
39 44.2 43.1 64.7

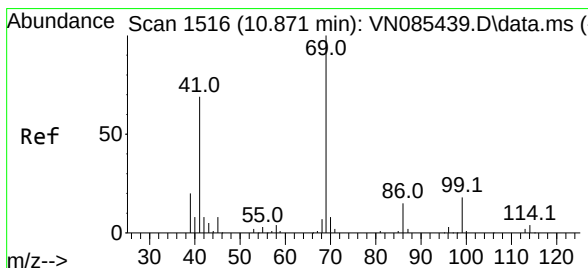
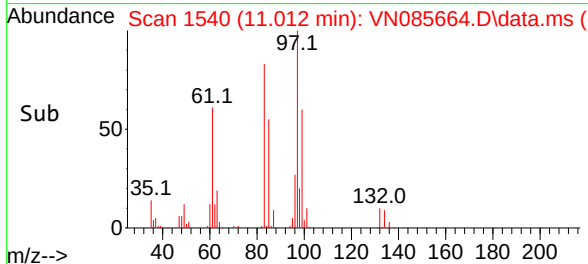
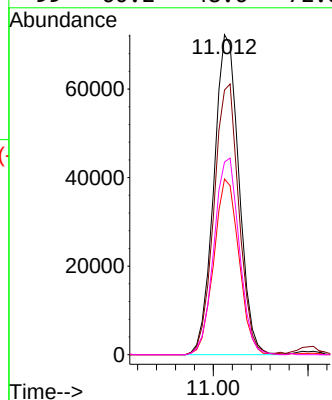
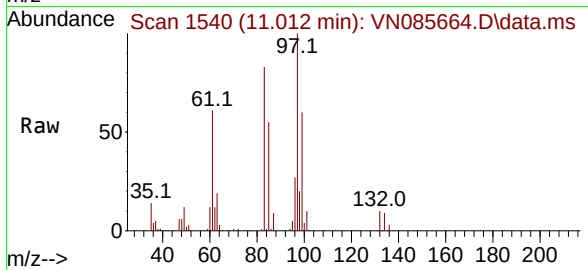




#55
1,1,2-Trichloroethane
Concen: 53.443 ug/l
RT: 11.012 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

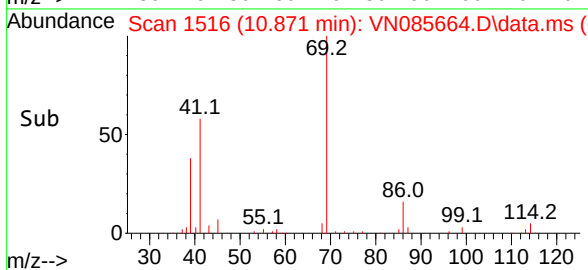
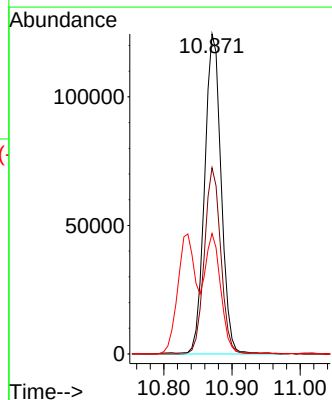
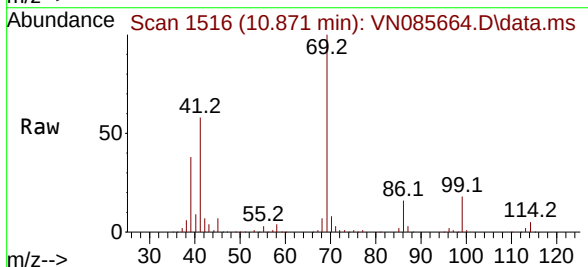
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

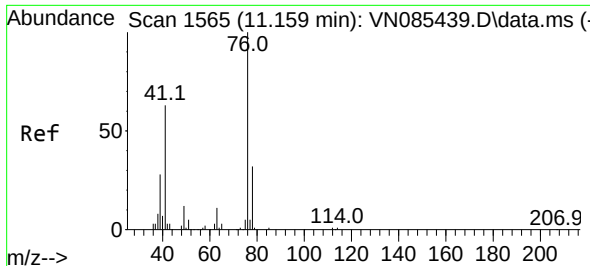
Tgt Ion: 97	Resp: 132983
Ion Ratio	Lower Upper
97 100	
83 82.7	69.0 103.6
85 54.9	44.6 66.8
99 60.2	48.6 72.8



#56
Ethyl methacrylate
Concen: 49.991 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 69	Resp: 209546
Ion Ratio	Lower Upper
69 100	
41 57.0	54.6 82.0
39 35.7	32.4 48.6





#57

1,3-Dichloropropane

Concen: 52.040 ug/l

RT: 11.159 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

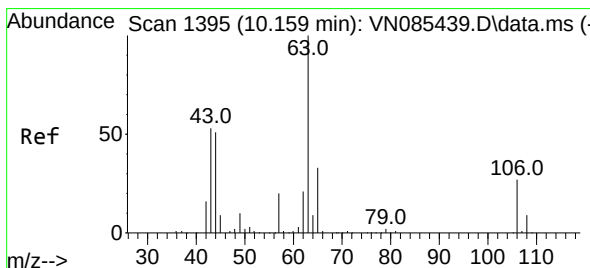
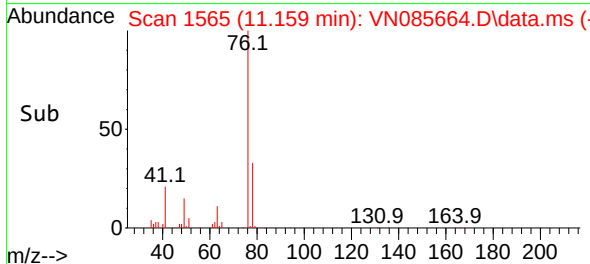
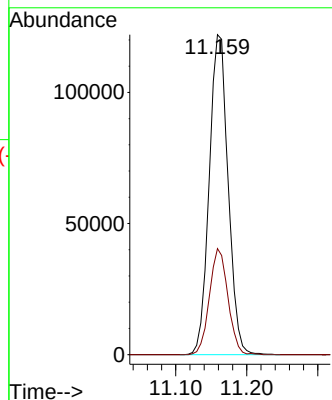
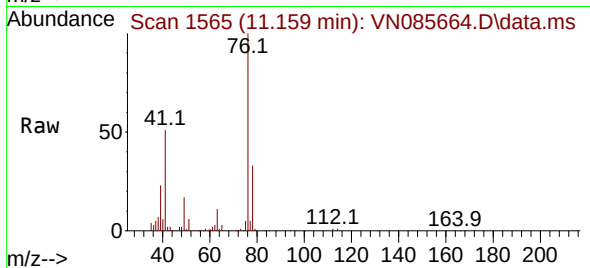
VSTDCCC050EC

Tgt Ion: 76 Resp: 225162

Ion Ratio Lower Upper

76 100

78 32.4 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 195.762 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN085664.D

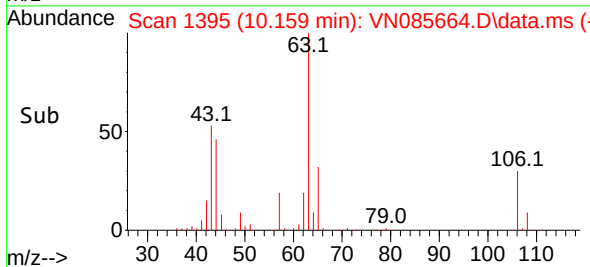
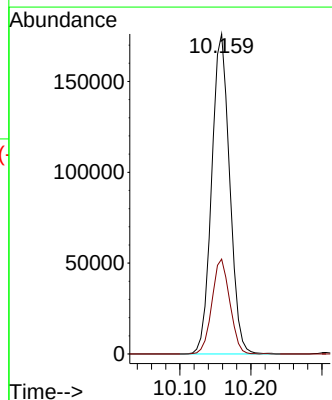
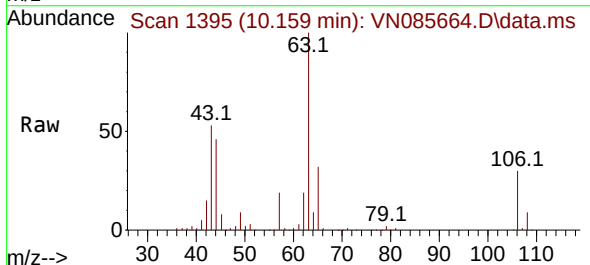
Acq: 04 Feb 2025 20:15

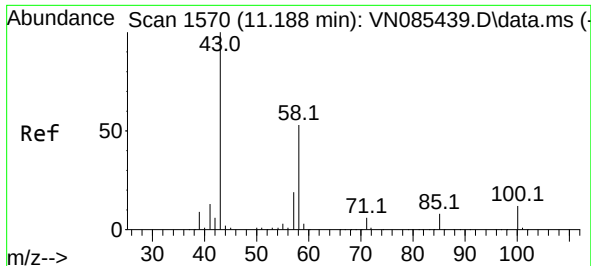
Tgt Ion: 63 Resp: 309122

Ion Ratio Lower Upper

63 100

106 29.4 21.6 32.4





#59

2-Hexanone

Concen: 255.240 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.006 min

Lab File: VN085664.D

Acq: 04 Feb 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

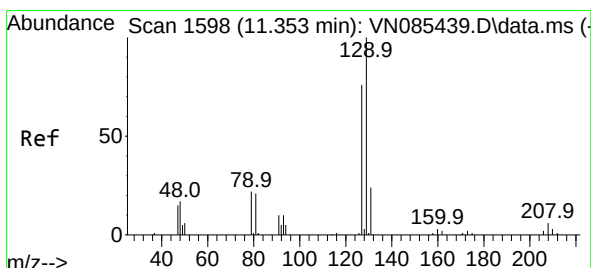
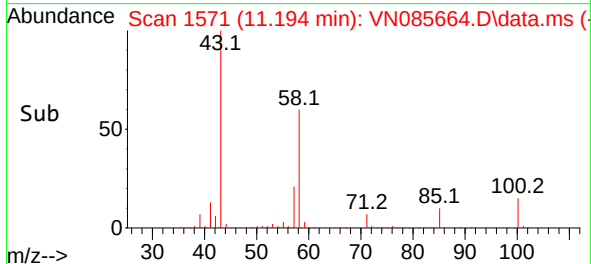
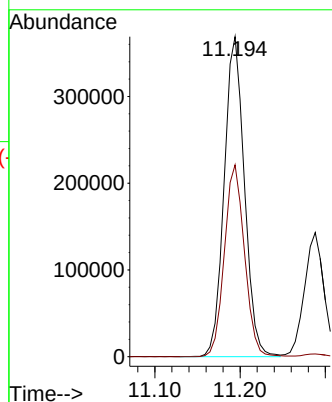
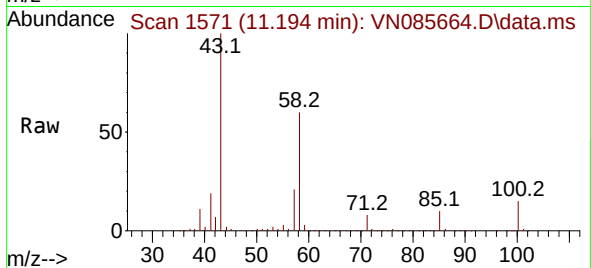
VSTDCCC050EC

Tgt Ion: 43 Resp: 608742

Ion Ratio Lower Upper

43 100

58 59.5 26.2 78.6



#60

Dibromochloromethane

Concen: 52.516 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085664.D

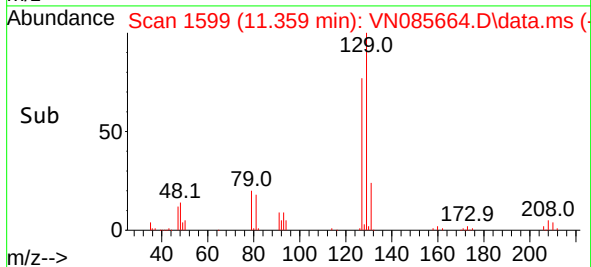
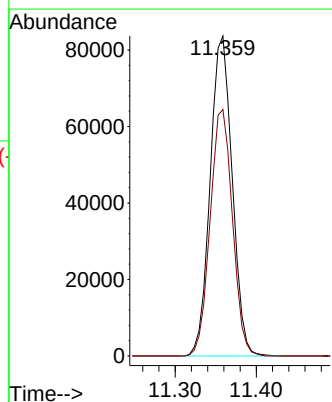
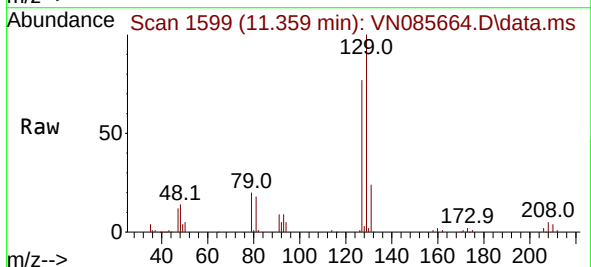
Acq: 04 Feb 2025 20:15

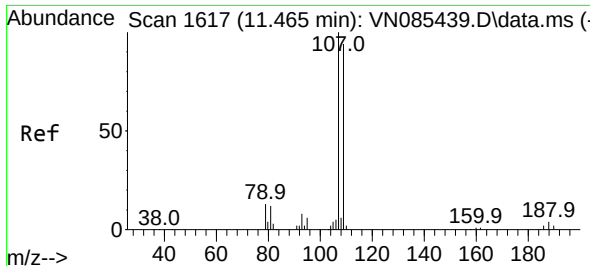
Tgt Ion: 129 Resp: 157763

Ion Ratio Lower Upper

129 100

127 77.9 38.6 115.8

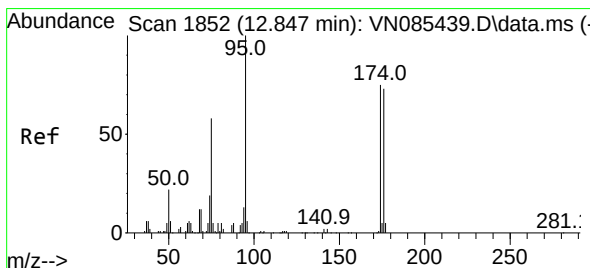
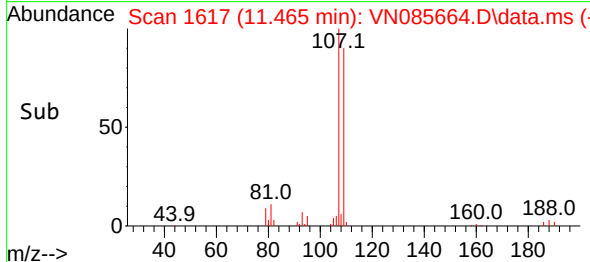
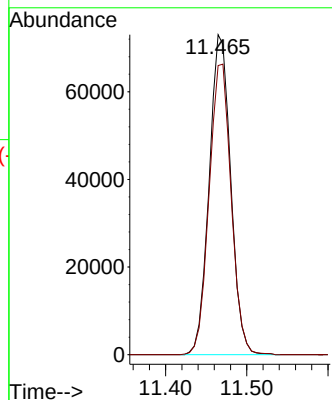
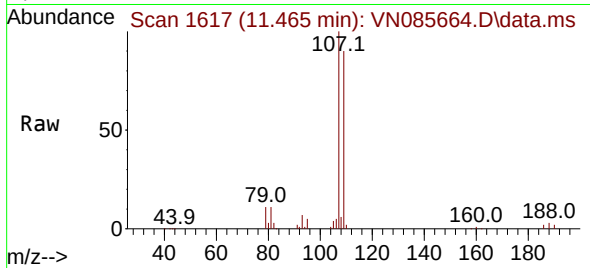




#61
1,2-Dibromoethane
Concen: 54.228 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

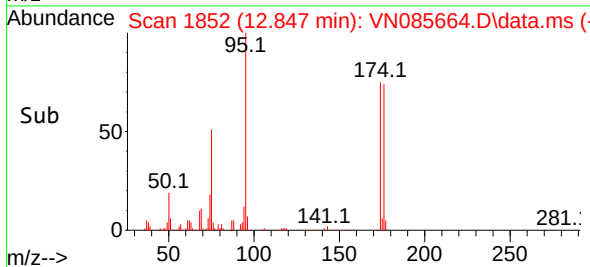
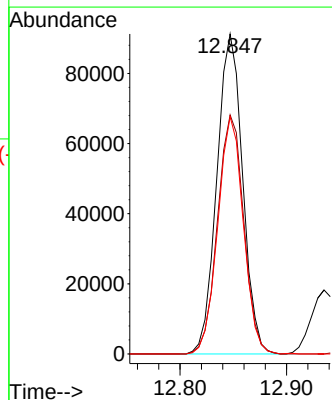
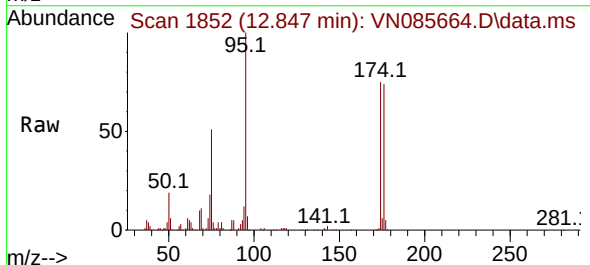
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

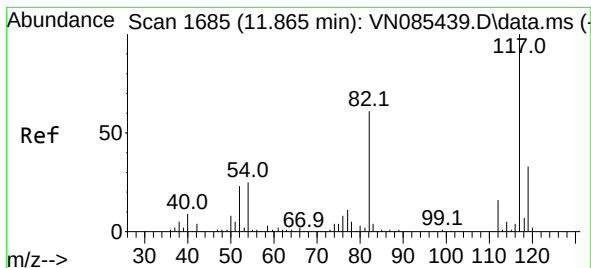
Tgt Ion:107 Resp: 134316
Ion Ratio Lower Upper
107 100
109 93.2 75.9 113.9



#62
4-Bromofluorobenzene
Concen: 48.969 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 95 Resp: 153154
Ion Ratio Lower Upper
95 100
174 76.0 0.0 145.0
176 73.6 0.0 142.4

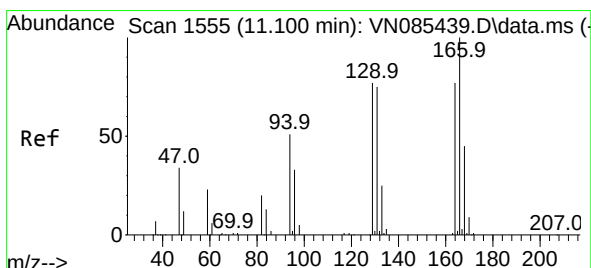
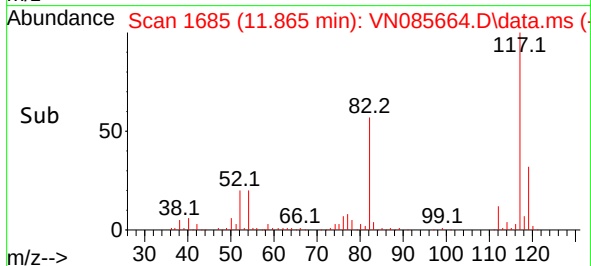
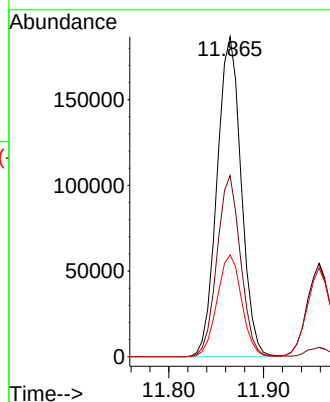
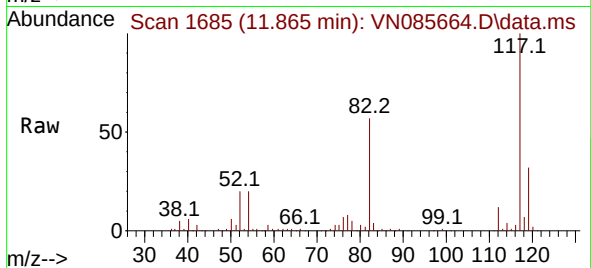




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

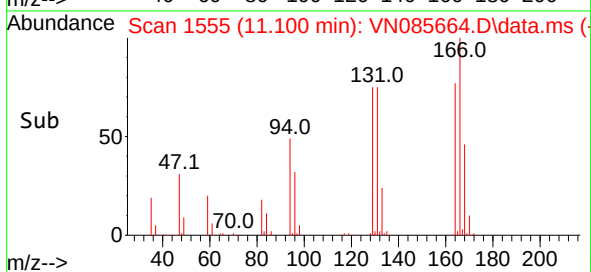
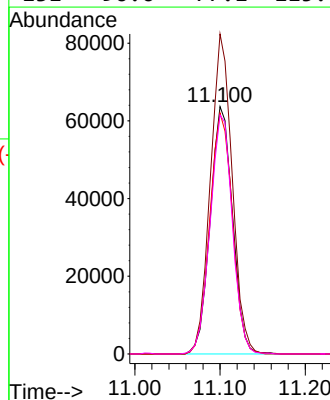
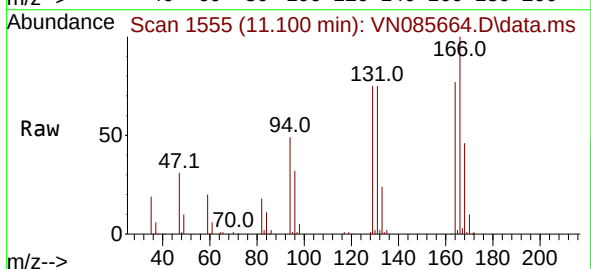
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

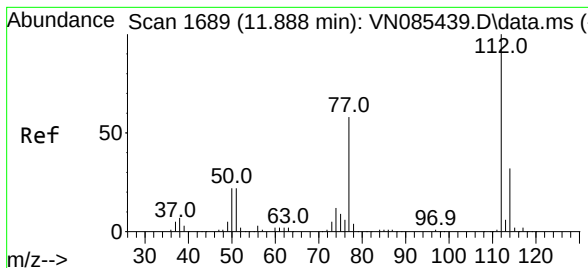
Tgt Ion:117 Resp: 331235
Ion Ratio Lower Upper
117 100
82 56.6 48.6 72.8
119 31.8 26.6 39.8



#64
Tetrachloroethene
Concen: 51.189 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:164 Resp: 115593
Ion Ratio Lower Upper
164 100
166 129.4 103.4 155.2
129 97.4 79.2 118.8
131 96.6 77.1 115.7

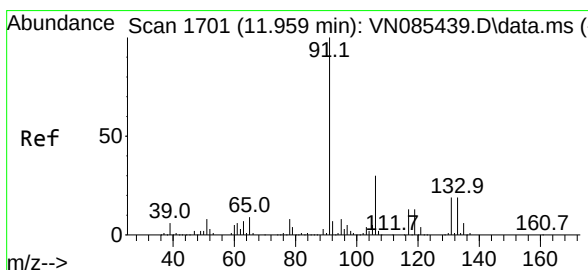
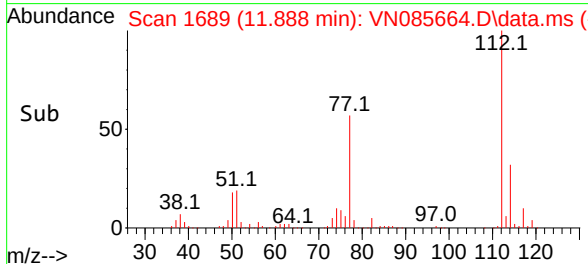
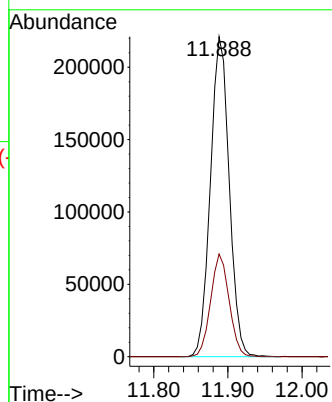
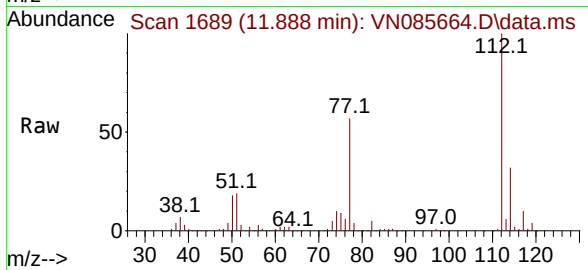




#65
Chlorobenzene
Concen: 53.668 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

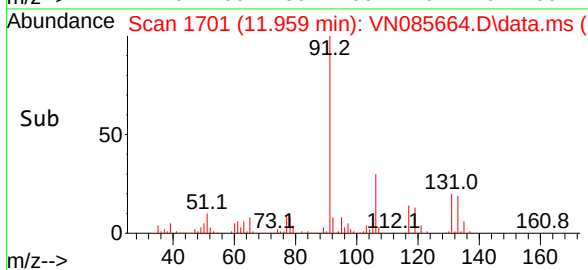
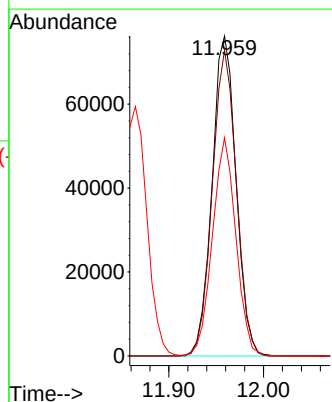
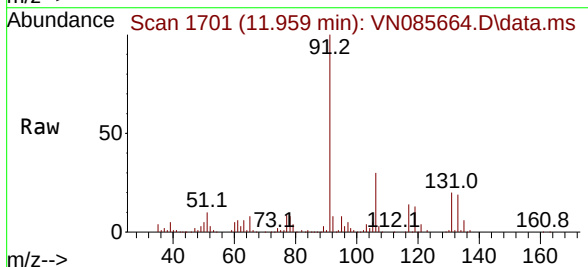
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

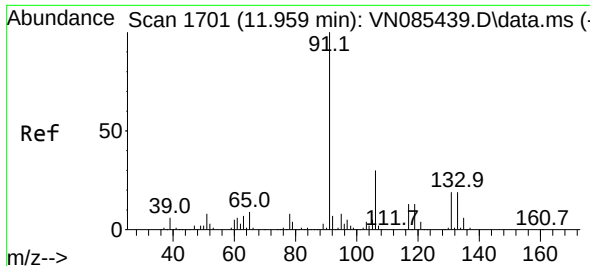
Tgt Ion:112 Resp: 389431
Ion Ratio Lower Upper
112 100
114 32.1 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 50.402 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:131 Resp: 134229
Ion Ratio Lower Upper
131 100
133 95.8 47.4 142.3
119 66.9 33.1 99.5

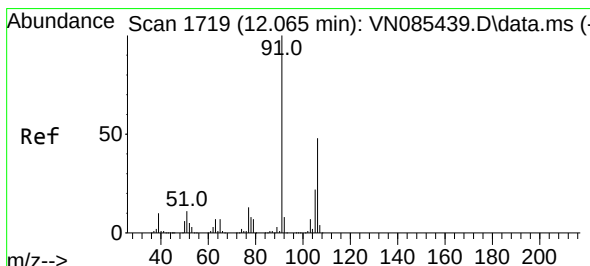
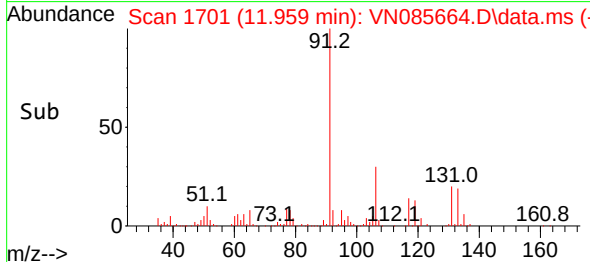
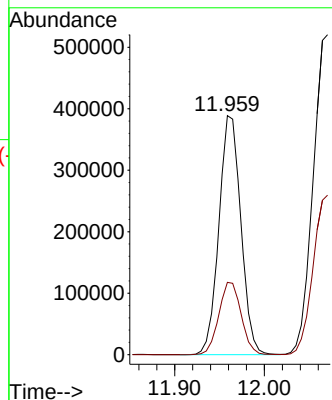
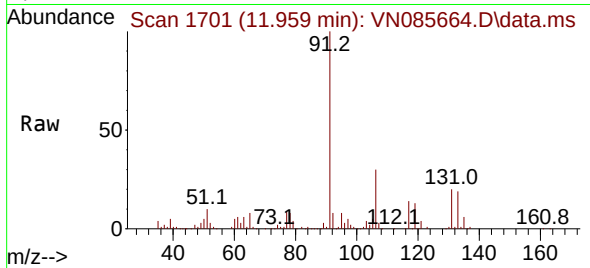




#67
Ethyl Benzene
Concen: 55.928 ug/l
RT: 11.959 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

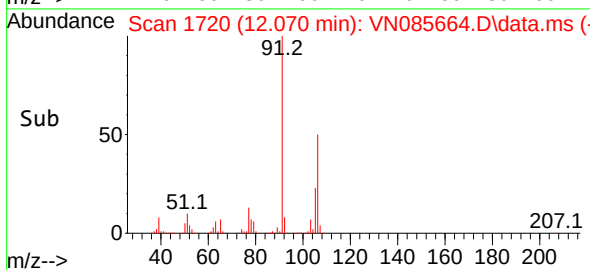
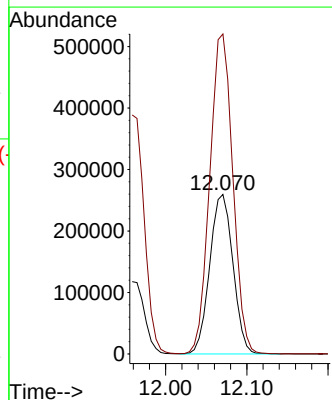
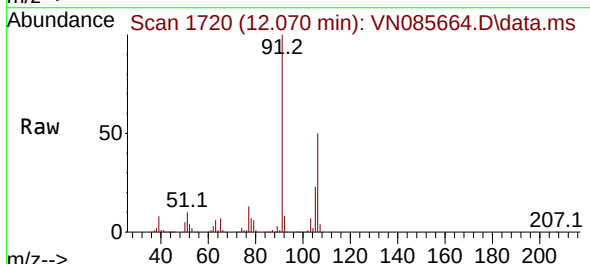
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

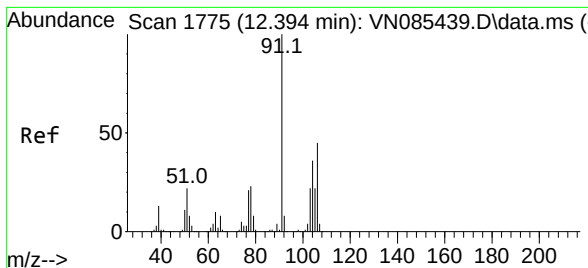
Tgt Ion: 91 Resp: 660992
Ion Ratio Lower Upper
91 100
106 30.2 23.8 35.8



#68
m/p-Xylenes
Concen: 118.079 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:106 Resp: 515763
Ion Ratio Lower Upper
106 100
91 199.0 167.7 251.5

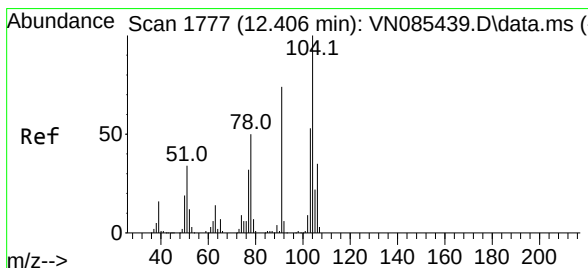
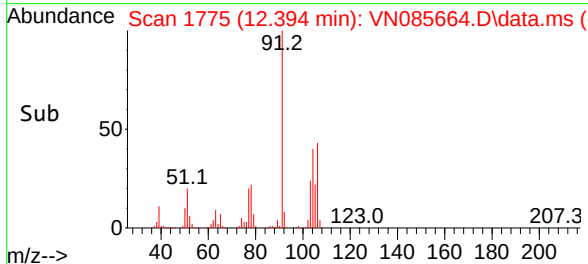
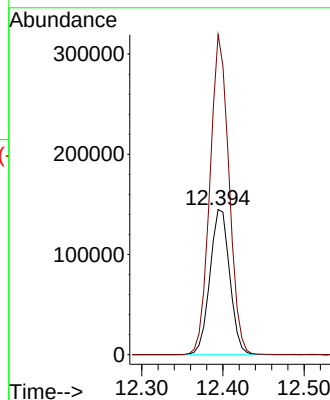
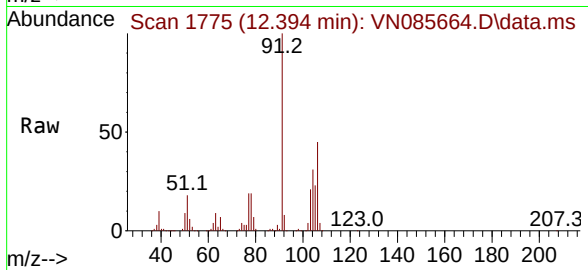




#69
o-Xylene
Concen: 58.761 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

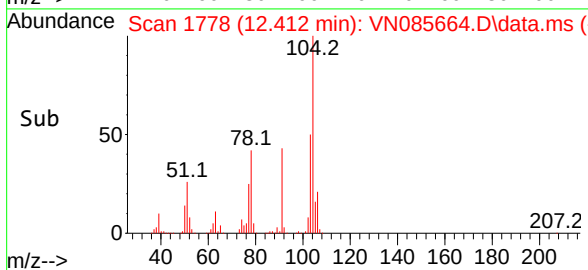
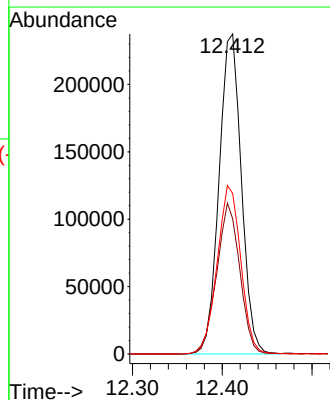
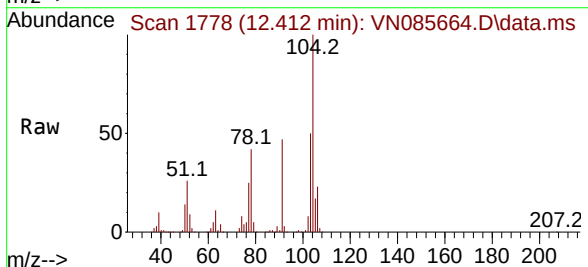
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

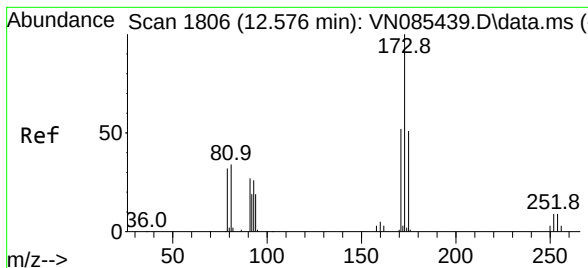
Tgt Ion:106 Resp: 245286
Ion Ratio Lower Upper
106 100
91 212.6 110.4 331.2



#70
Styrene
Concen: 59.359 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:104 Resp: 410076
Ion Ratio Lower Upper
104 100
78 48.9 42.5 63.7
103 55.8 43.8 65.8

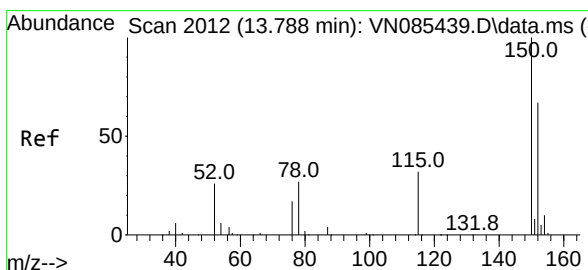
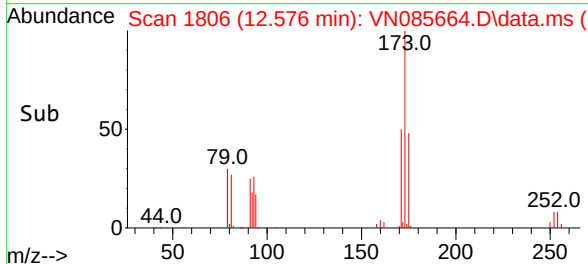
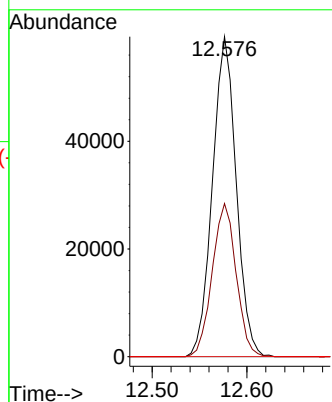
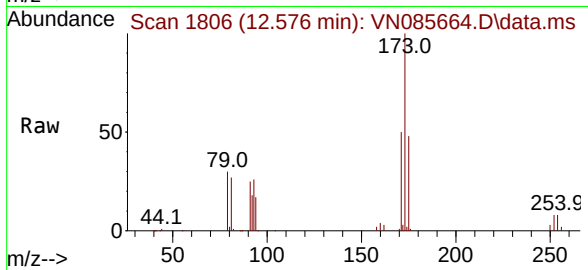




#71
Bromoform
Concen: 54.323 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

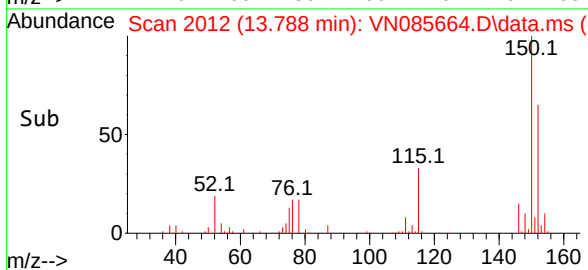
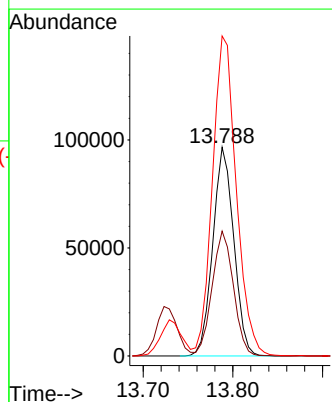
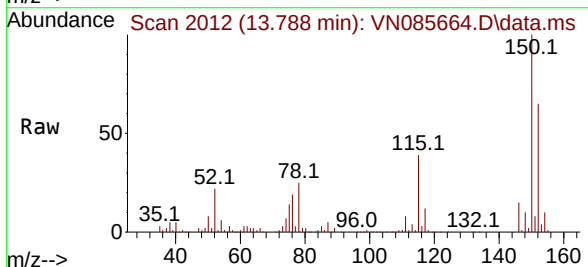
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

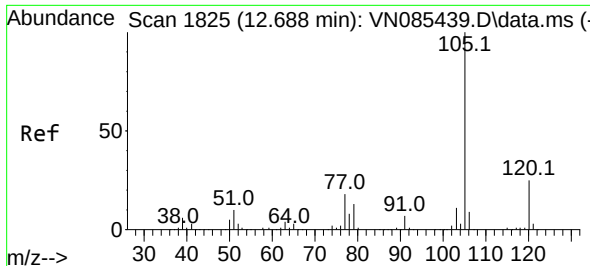
Tgt Ion:173 Resp: 103515
Ion Ratio Lower Upper
173 100
175 48.2 24.4 73.2
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:152 Resp: 156927
Ion Ratio Lower Upper
152 100
115 60.6 31.1 93.3
150 174.4 0.0 343.6

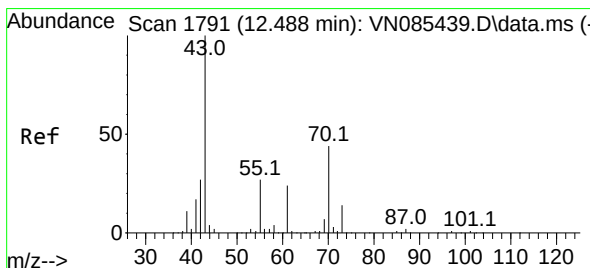
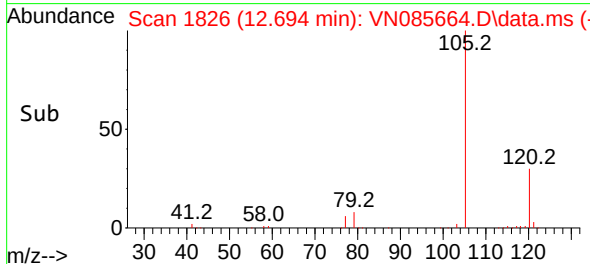
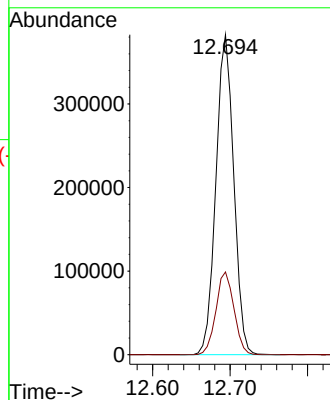
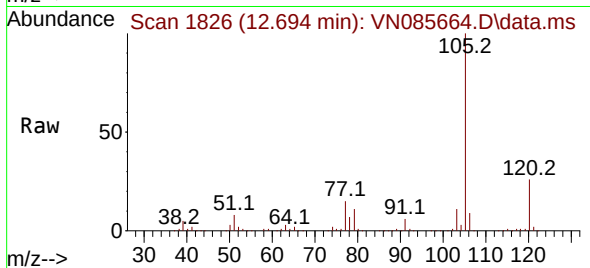




#73
Isopropylbenzene
Concen: 57.650 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

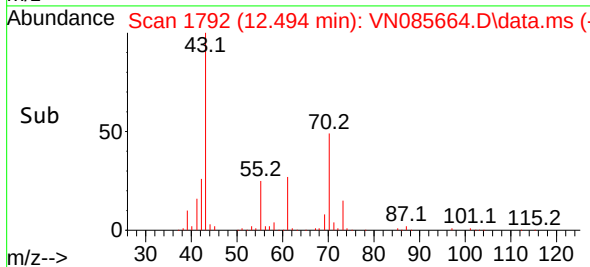
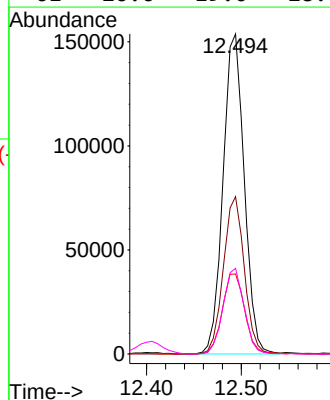
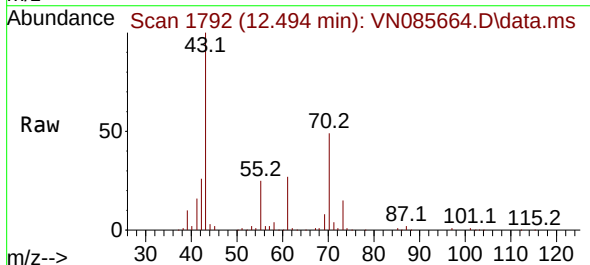
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

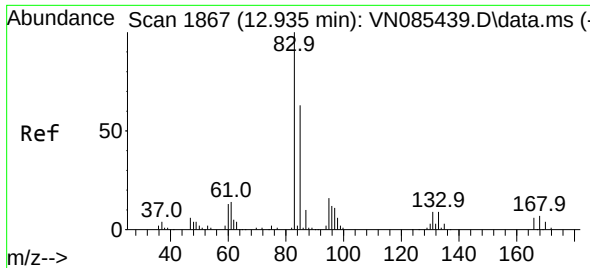
Tgt Ion:105 Resp: 610580
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.3



#74
N-ethyl acetate
Concen: 50.296 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 43 Resp: 239434
Ion Ratio Lower Upper
43 100
70 48.7 34.0 51.0
55 26.4 21.4 32.2
61 26.6 19.0 28.4

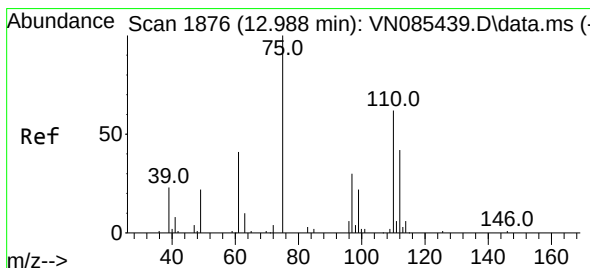
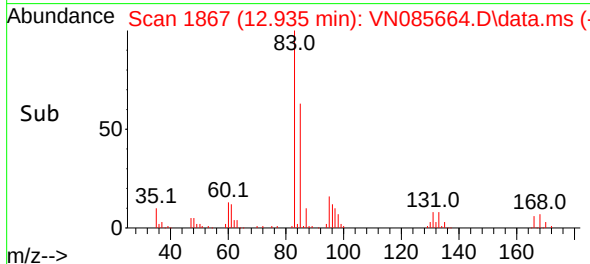
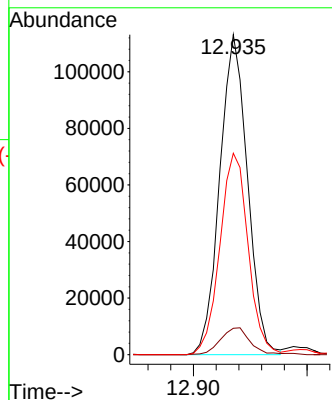
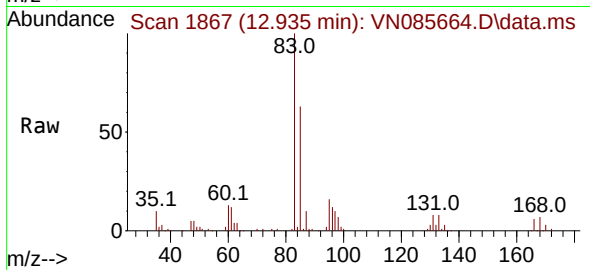




#75
1,1,2,2-Tetrachloroethane
Concen: 51.261 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

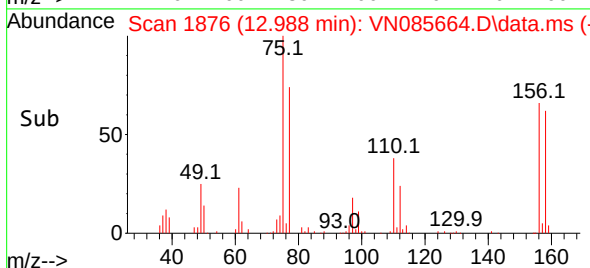
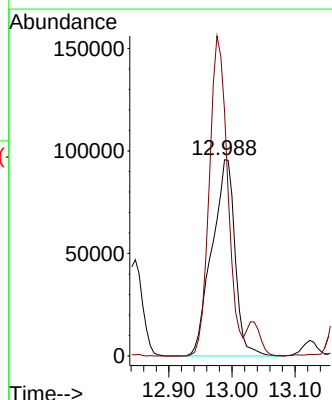
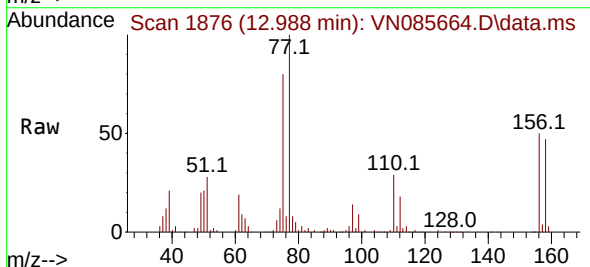
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

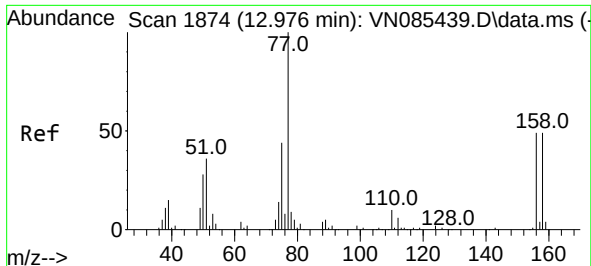
Tgt Ion: 83 Resp: 191782
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.4
85 64.1 32.2 96.6



#76
1,2,3-Trichloropropane
Concen: 76.294 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 75 Resp: 243346
Ion Ratio Lower Upper
75 100
77 129.2 109.7 329.2

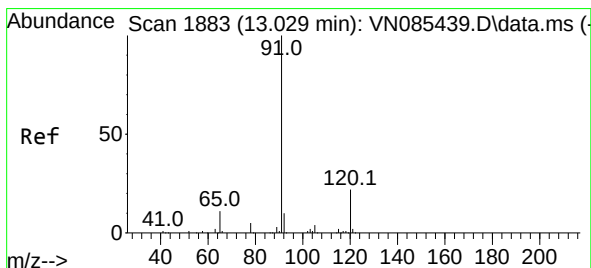
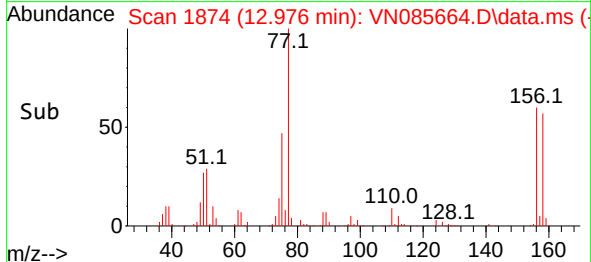
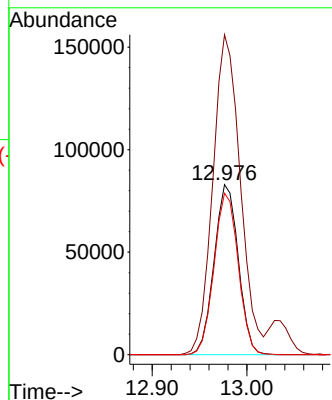
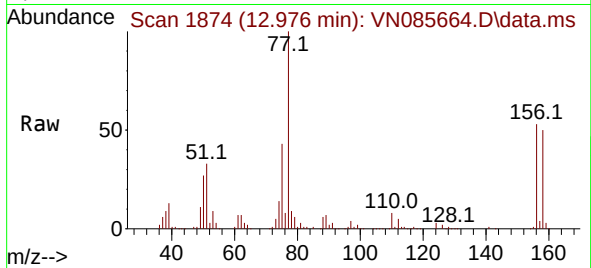




#77
Bromobenzene
Concen: 53.229 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

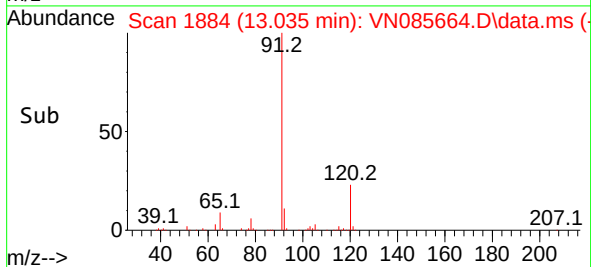
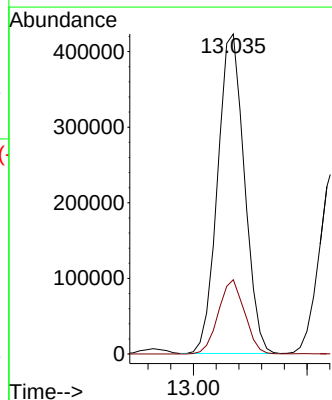
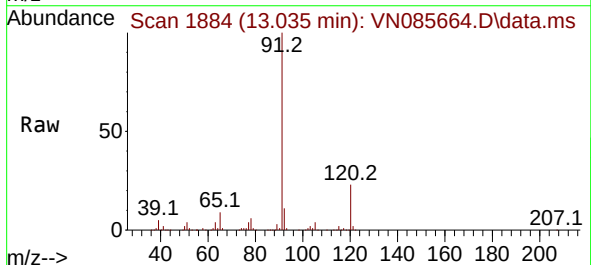
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

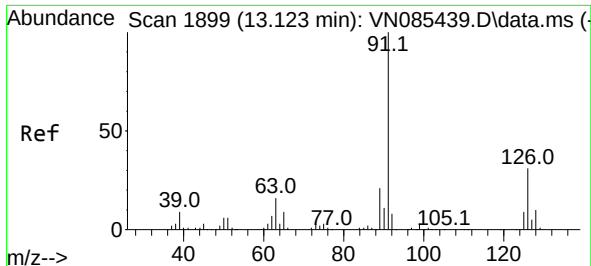
Tgt Ion:156 Resp: 147291
Ion Ratio Lower Upper
156 100
77 213.5 114.1 342.4
158 94.8 48.9 146.8



#78
n-propylbenzene
Concen: 55.269 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 91 Resp: 692980
Ion Ratio Lower Upper
91 100
120 22.6 10.9 32.6

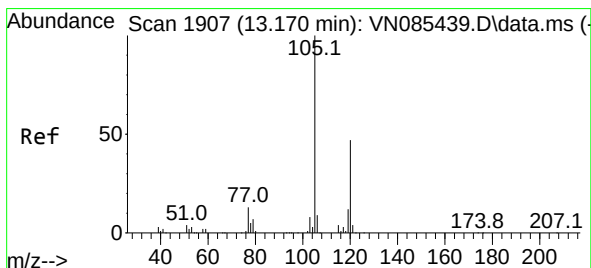
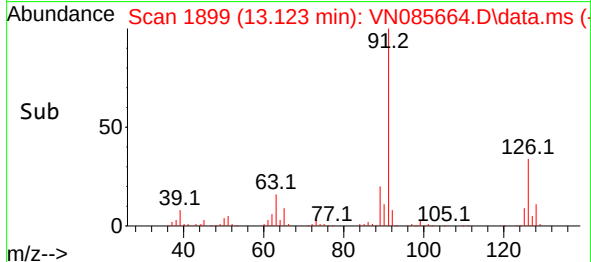
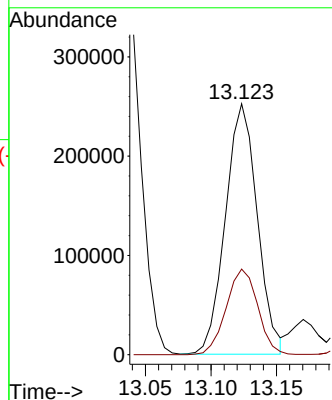
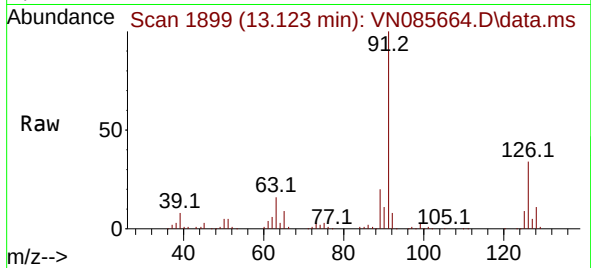




#79
2-Chlorotoluene
Concen: 52.647 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

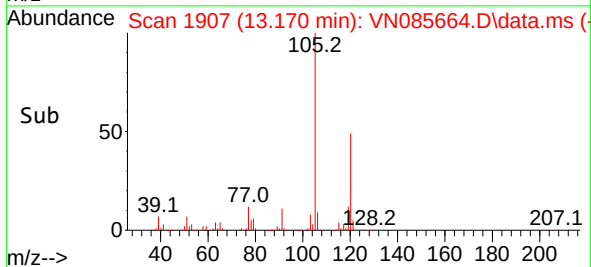
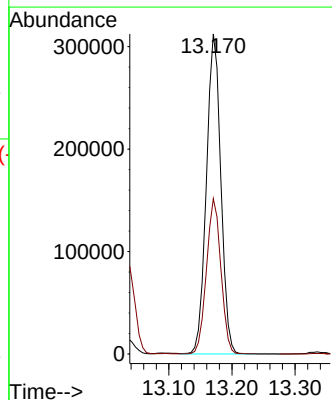
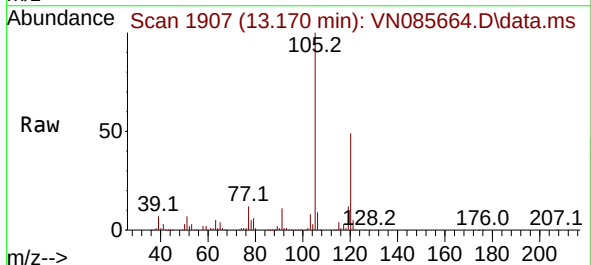
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

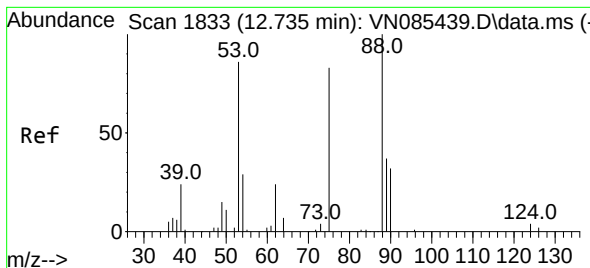
Tgt Ion: 91 Resp: 427216
Ion Ratio Lower Upper
91 100
126 33.8 15.7 47.1



#80
1,3,5-Trimethylbenzene
Concen: 56.764 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 105 Resp: 496596
Ion Ratio Lower Upper
105 100
120 48.4 23.9 71.7

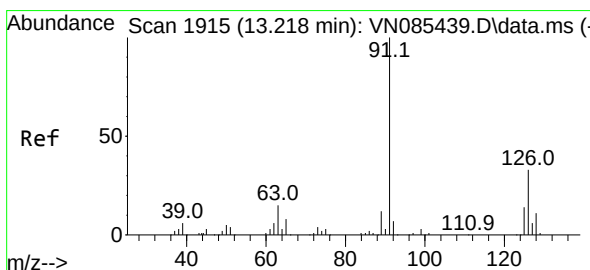
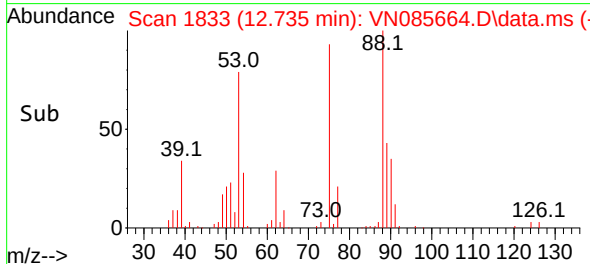
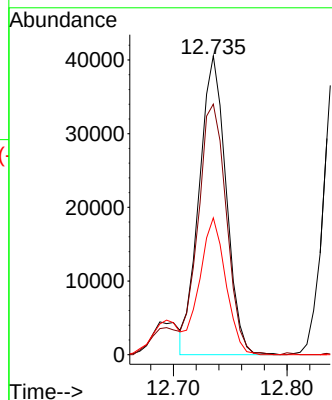
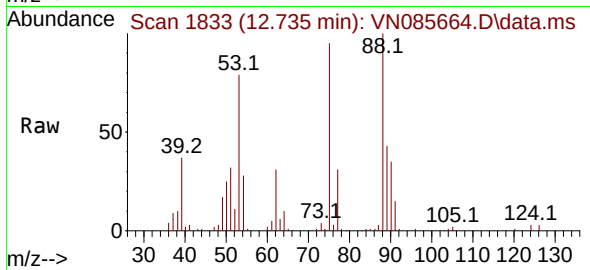




#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.737 ug/l
 RT: 12.735 min Scan# 1833
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

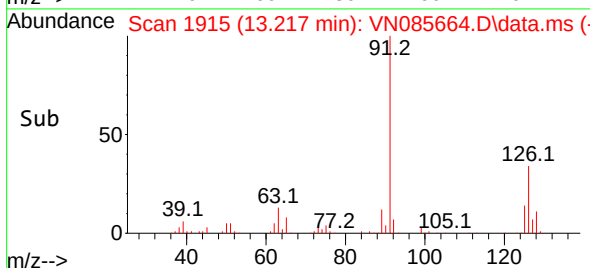
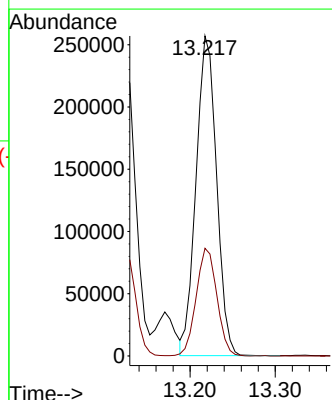
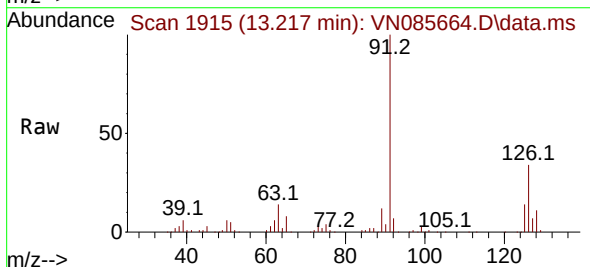
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

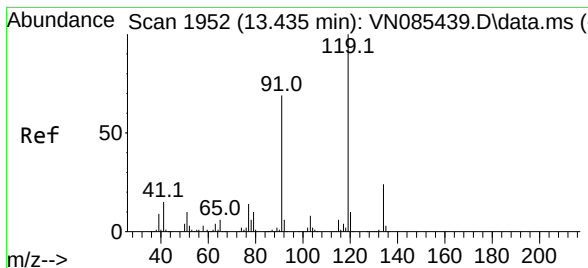
Tgt Ion: 75 Resp: 66887
 Ion Ratio Lower Upper
 75 100
 53 97.3 95.6 143.4
 89 45.1 37.0 55.6



#82
 4-Chlorotoluene
 Concen: 53.134 ug/l
 RT: 13.217 min Scan# 1915
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

Tgt Ion: 91 Resp: 429304
 Ion Ratio Lower Upper
 91 100
 126 34.0 15.9 47.7

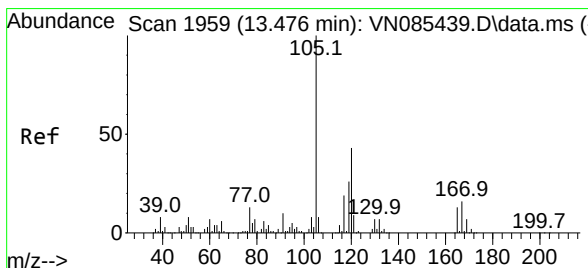
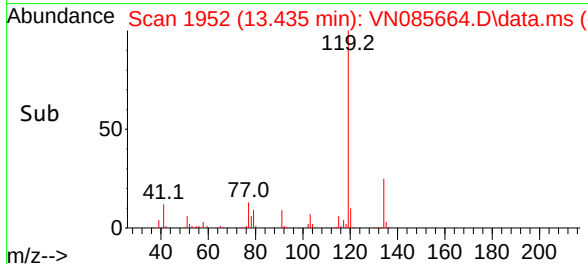
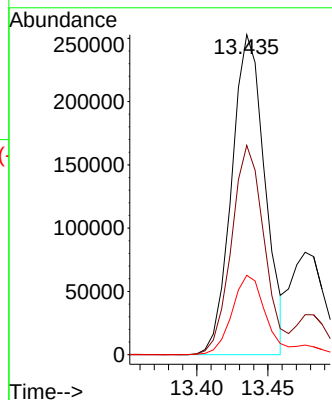
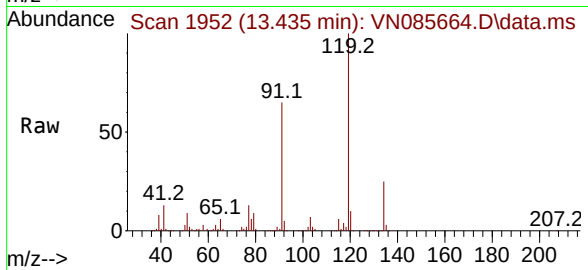




#83
tert-Butylbenzene
Concen: 56.016 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

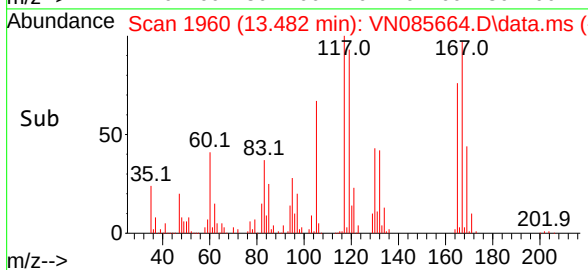
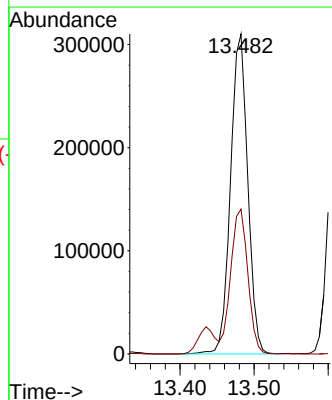
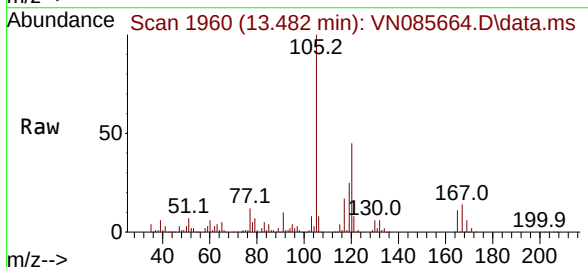
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

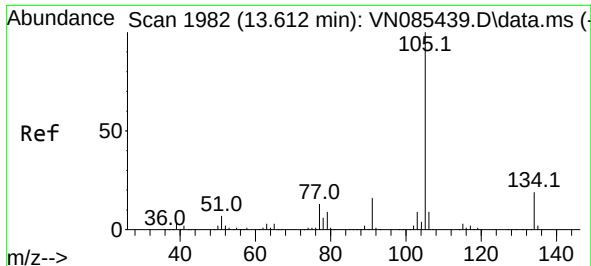
Tgt Ion:119 Resp: 411529
Ion Ratio Lower Upper
119 100
91 65.1 35.1 105.3
134 27.1 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 57.240 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:105 Resp: 499092
Ion Ratio Lower Upper
105 100
120 45.0 21.6 65.0

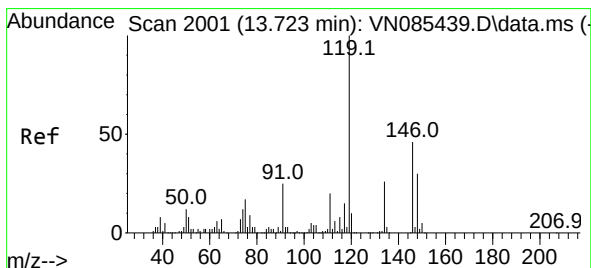
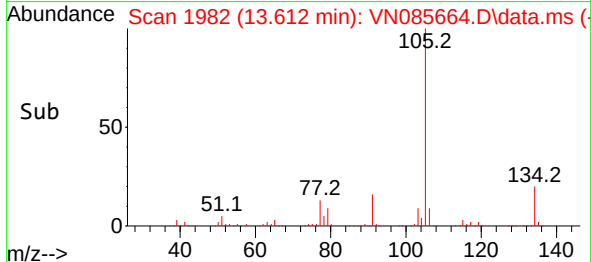
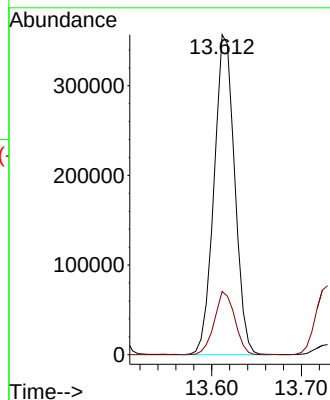
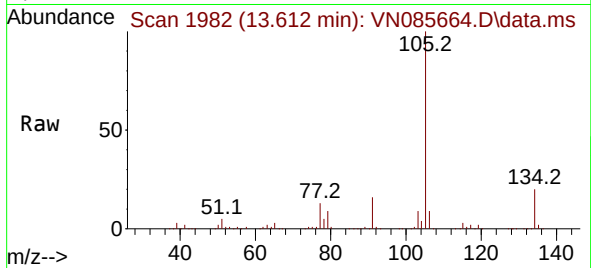




#85
 sec-Butylbenzene
 Concen: 55.962 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

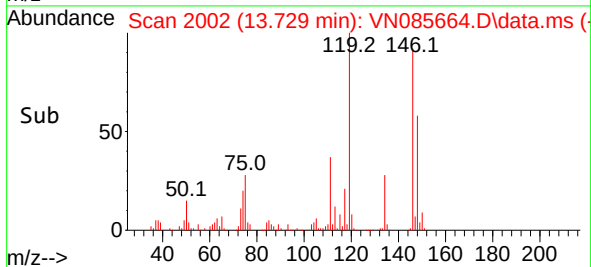
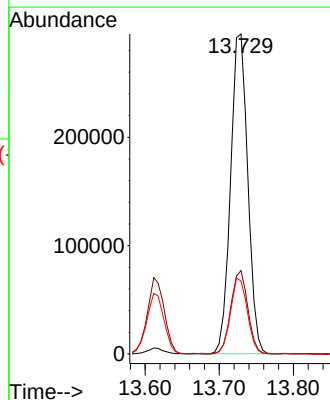
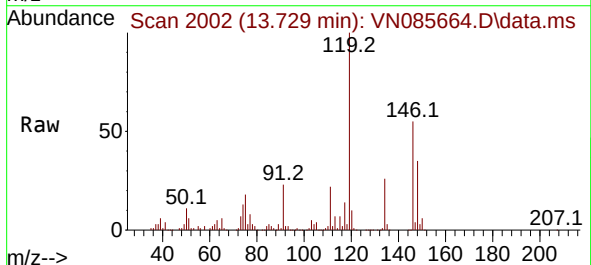
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

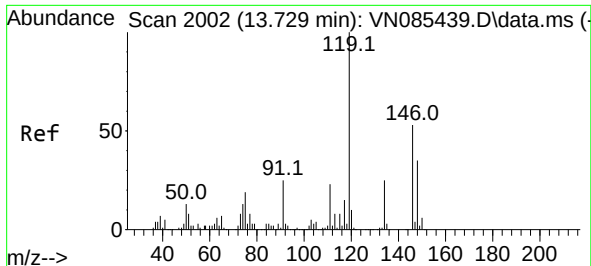
Tgt Ion:105 Resp: 569818
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 51.682 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

Tgt Ion:119 Resp: 475841
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.7 38.0
 91 23.1 12.7 38.1

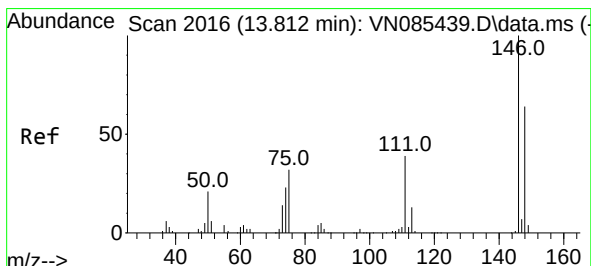
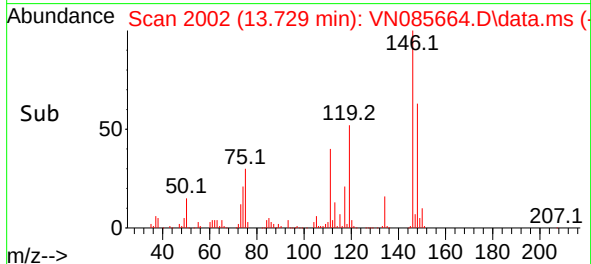
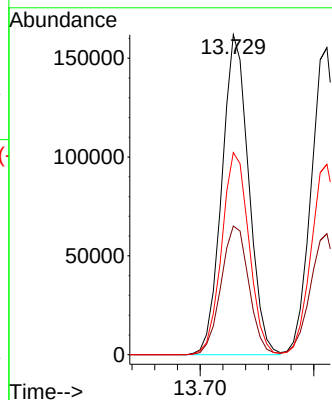
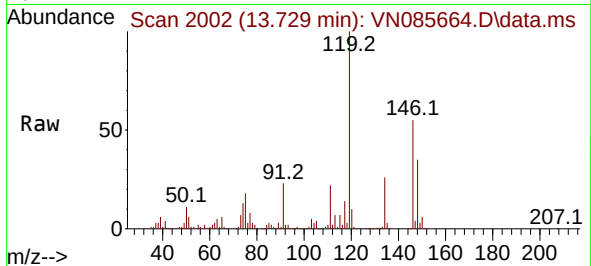




#87
 1,3-Dichlorobenzene
 Concen: 51.961 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

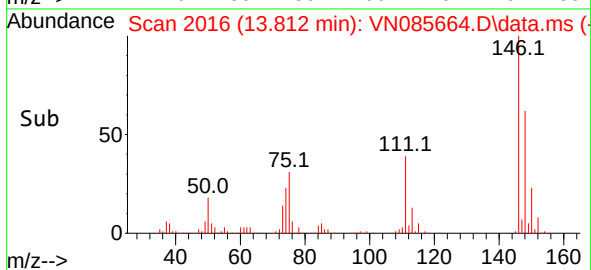
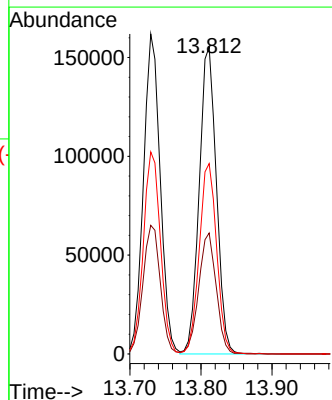
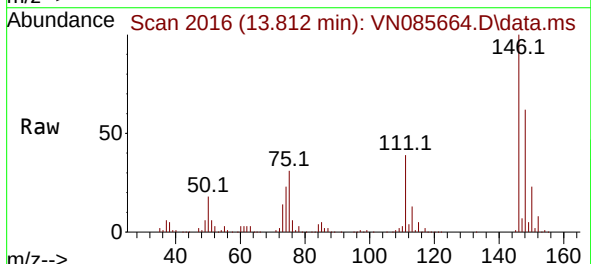
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

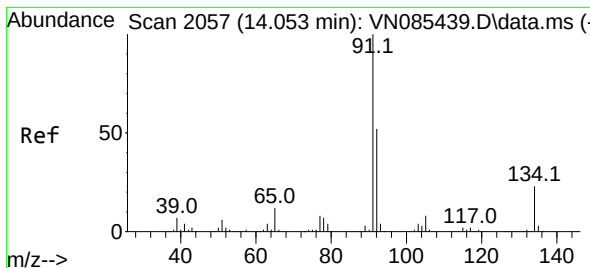
Tgt Ion:146 Resp: 264789
 Ion Ratio Lower Upper
 146 100
 111 41.7 21.4 64.3
 148 64.4 32.3 96.9



#88
 1,4-Dichlorobenzene
 Concen: 49.616 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

Tgt Ion:146 Resp: 262072
 Ion Ratio Lower Upper
 146 100
 111 39.7 21.3 63.7
 148 62.9 32.4 97.0

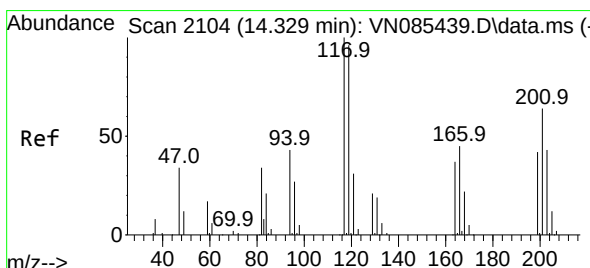
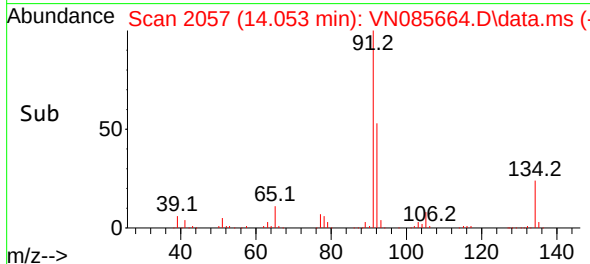
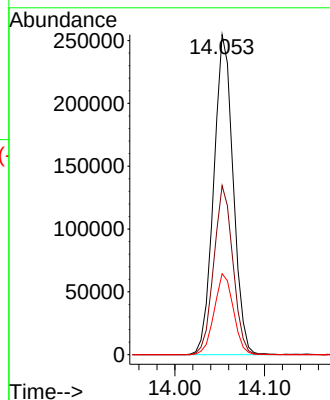
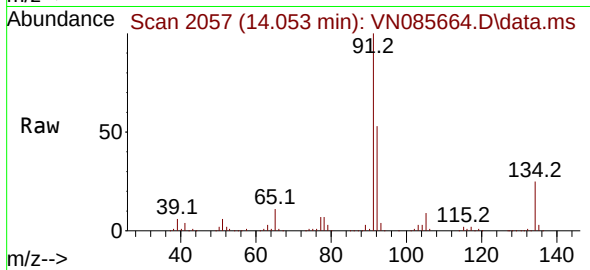




#89
n-Butylbenzene
Concen: 52.399 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

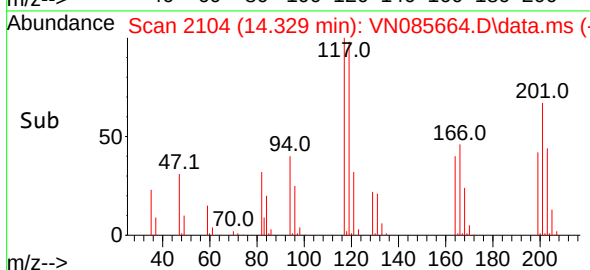
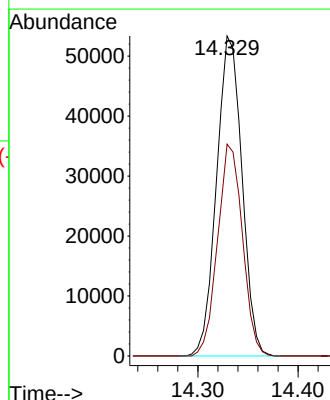
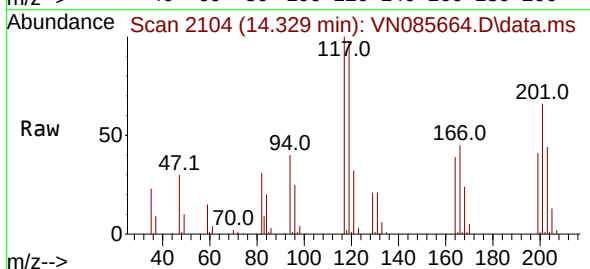
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

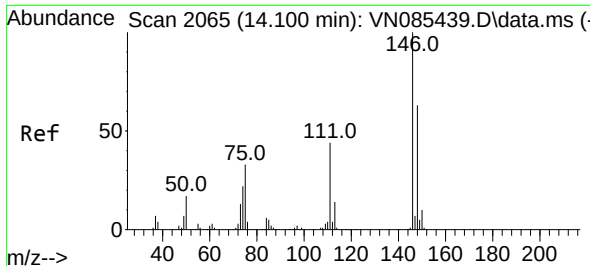
Tgt Ion: 91 Resp: 382769
Ion Ratio Lower Upper
91 100
92 52.0 25.8 77.3
134 24.9 11.7 35.1



#90
Hexachloroethane
Concen: 48.490 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 117 Resp: 93994
Ion Ratio Lower Upper
117 100
201 64.7 33.7 101.0

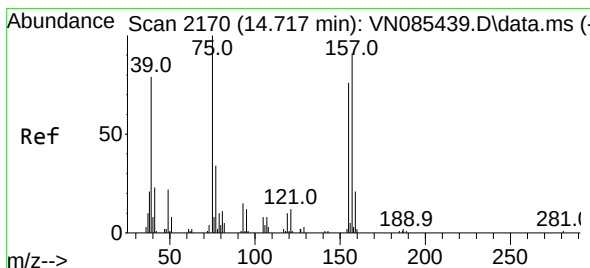
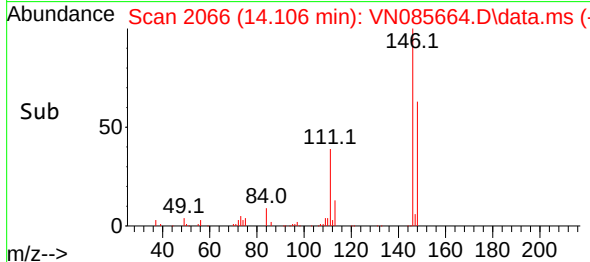
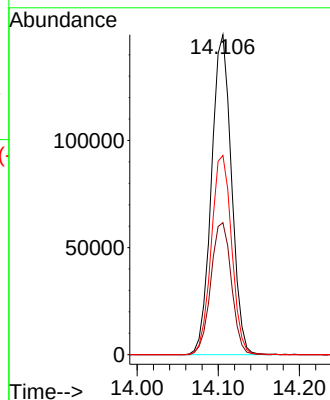
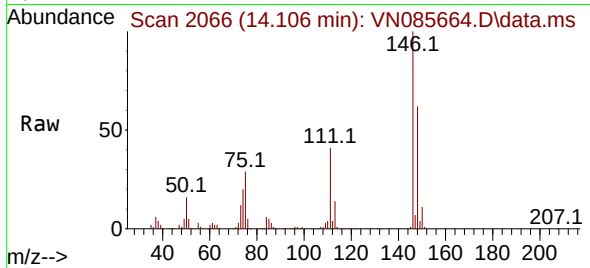




#91
1,2-Dichlorobenzene
Concen: 50.370 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

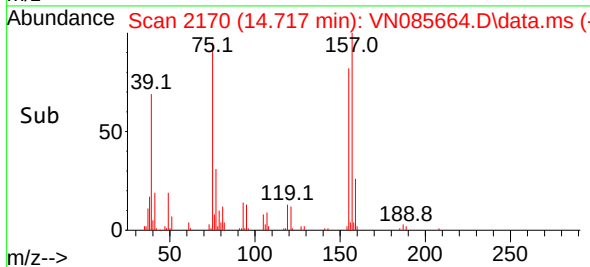
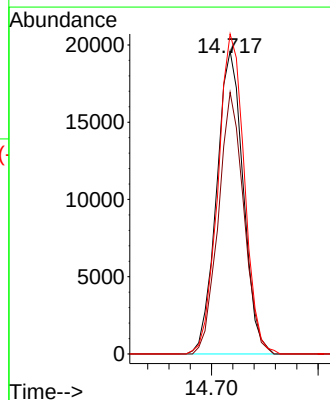
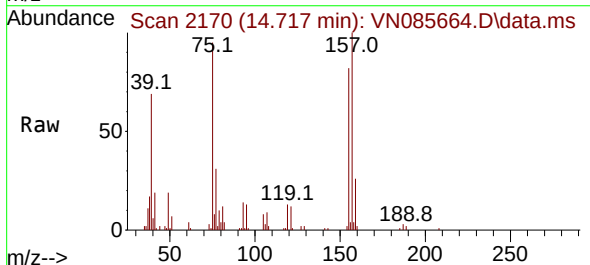
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

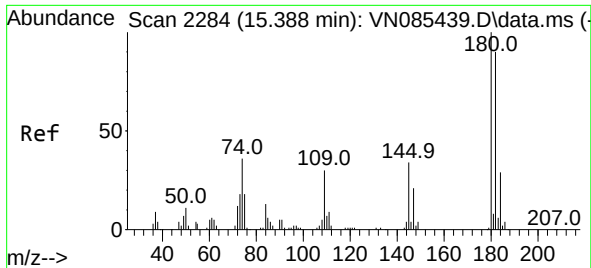
Tgt Ion:146 Resp: 256034
Ion Ratio Lower Upper
146 100
111 42.4 21.7 65.1
148 63.4 31.4 94.2



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.679 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion: 75 Resp: 33940
Ion Ratio Lower Upper
75 100
155 82.5 36.4 109.2
157 105.0 45.4 136.1

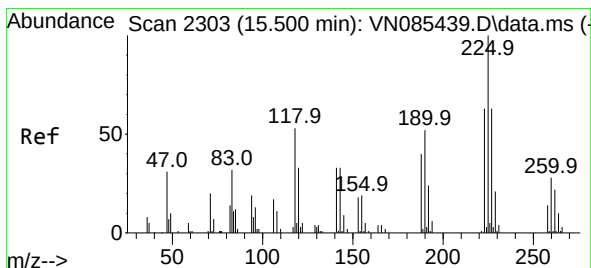
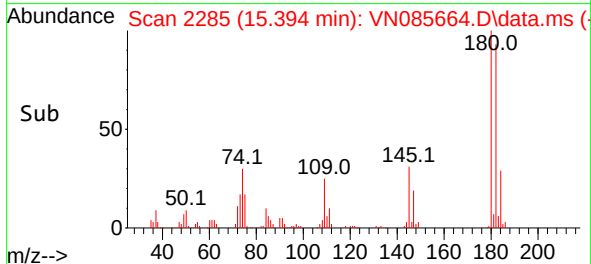
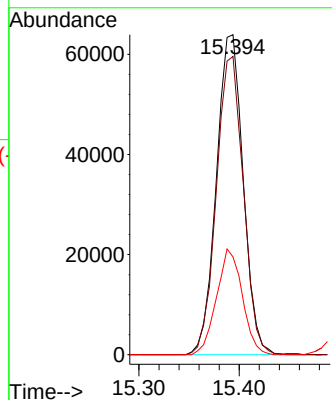
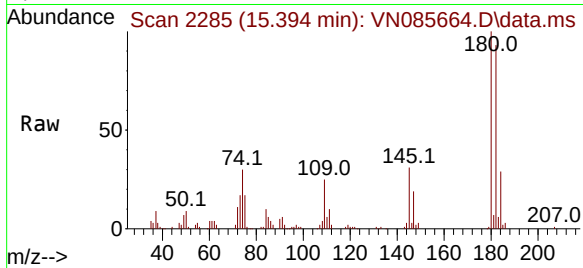




#93
 1,2,4-Trichlorobenzene
 Concen: 50.226 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

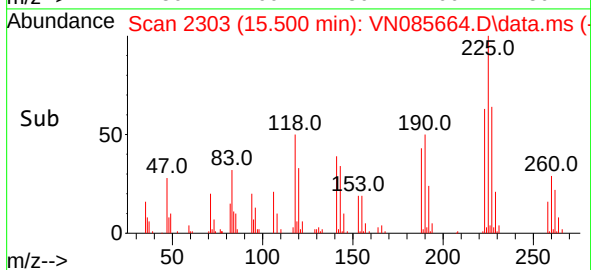
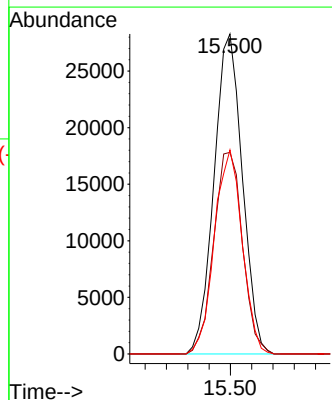
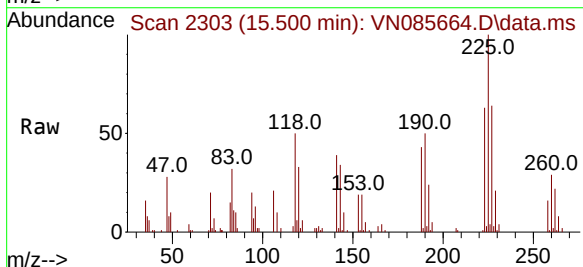
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

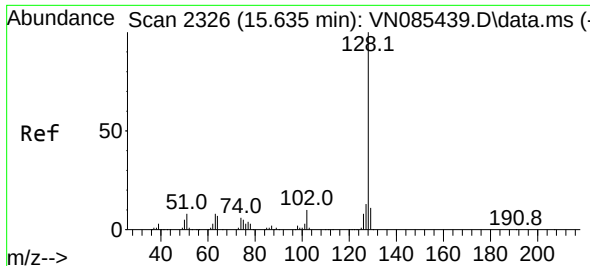
Tgt Ion:180 Resp: 118657
 Ion Ratio Lower Upper
 180 100
 182 93.7 46.8 140.3
 145 31.7 16.0 48.0



#94
 Hexachlorobutadiene
 Concen: 41.644 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN085664.D
 Acq: 04 Feb 2025 20:15

Tgt Ion:225 Resp: 52232
 Ion Ratio Lower Upper
 225 100
 223 64.1 30.7 92.1
 227 62.5 30.9 92.5

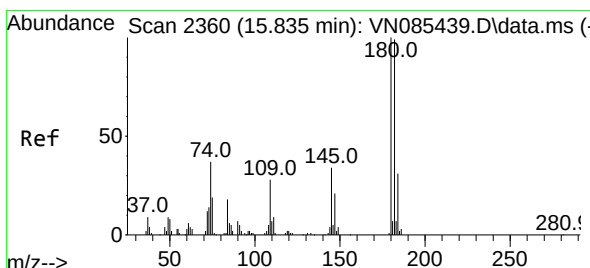
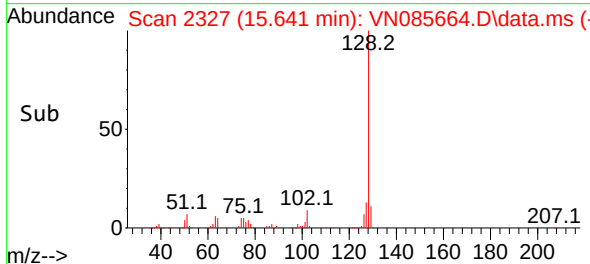
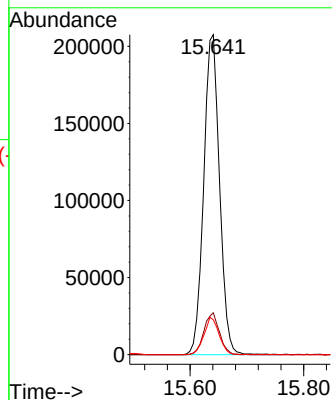
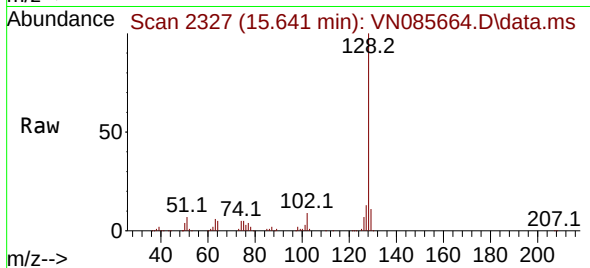




#95
Naphthalene
Concen: 56.729 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 399927
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 11.1 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 48.673 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085664.D
Acq: 04 Feb 2025 20:15

Tgt Ion:180 Resp: 116351
Ion Ratio Lower Upper
180 100
182 94.2 47.4 142.2
145 33.8 16.9 50.7

