

Cover Page

Order ID : Q1833

Project ID : PVSC Monthly 2025

Client : Ardmore Chemical

Lab Sample Number

Q1833-01
Q1833-02

Client Sample Number

EFF-WASTE-WATER
EFF-WASTE-WATER

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

Signature : _____

Date: 4/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Ardmore Chemical

Project Name: PVSC Monthly 2025

Project # N/A

Chemtech Project # Q1833

Test Name: VOC-PP

A. Number of Samples and Date of Receipt:

2 Water samples were received on 04/17/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: BOD5, Cyanide, Mercury, Metals Group2, Metals Group3, Metals ICP-Group, SVOCMS Group1, TSS and VOC-PP. This data package contains results for VOC-PP.

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 VOC-PP was based on method 624.1.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD 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 %RSD is greater than 35% in the Initial Calibration method (624N042325W.M) for Acrolein is passing on Linear Regression. The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples EFF-WASTE-WATER was diluted due foamy sample.

E. Additional Comments:

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

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



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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1833

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 04/29/2025

LAB CHRONICLE

OrderID: Q1833
Client: Ardmore Chemical
Contact: Michael Sharphouse

OrderDate: 4/17/2025 2:07:00 PM
Project: PVSC Monthly 2025
Location: L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1833-01	EFF-WASTE-WATER	Water			04/17/25			04/17/25
			VOC-PP	624.1			04/21/25	
			VOC-PP	624.1			04/23/25	



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Hit Summary Sheet
SW-846

SDG No.: Q1833

Client: Ardmore Chemical

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q1833-01	EFF-WASTE-WATER EFF-WASTE-WATI Water		Chloroform	15.4	J	2.80	25.0	ug/L
			Total Voc :	15.4				
			Total Concentration:	15.4				



QC SUMMARY

Surrogate Summary

SDG No.: Q1833

Client: Ardmore Chemical

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1833-01	EFF-WASTE-WATER	1,2-Dichloroethane-d4	30	30.8	103	91	110
		Toluene-d8	30	30.5	102	91	112
		4-Bromofluorobenzene	30	28.3	94	63	112
VN0423WBL01	VN0423WBL01	1,2-Dichloroethane-d4	30	30.5	102	91	110
		Toluene-d8	30	30.6	102	91	112
		4-Bromofluorobenzene	30	27.8	93	63	112
VN0423WBS01	VN0423WBS01	1,2-Dichloroethane-d4	30	30.9	103	91	110
		Toluene-d8	30	30.0	100	91	112
		4-Bromofluorobenzene	30	28.7	96	63	112
VN0423WBSD0	VN0423WBSD01	1,2-Dichloroethane-d4	30	31.3	104	91	110
		Toluene-d8	30	30.0	100	91	112
		4-Bromofluorobenzene	30	29.4	98	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1833

Client: Ardmore Chemical

Analytical Method: SW624.1

Datafile : VN086382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0423WBS01	Chloromethane	20	20.7	ug/L	104			1	205	
	Vinyl Chloride	20	20.7	ug/L	104			5	195	
	Bromomethane	20	21.4	ug/L	107			15	185	
	Chloroethane	20	20.9	ug/L	104			40	160	
	Trichlorofluoromethane	20	21.0	ug/L	105			50	150	
	1,1-Dichloroethene	20	20.8	ug/L	104			50	150	
	Acrolein	100	76.0	ug/L	76			60	140	
	Acrylonitrile	100	110	ug/L	110			60	140	
	Methylene Chloride	20	20.8	ug/L	104			60	140	
	trans-1,2-Dichloroethene	20	20.1	ug/L	101			70	130	
	1,1-Dichloroethane	20	20.7	ug/L	104			70	130	
	Carbon Tetrachloride	20	19.9	ug/L	100			70	130	
	Chloroform	20	20.6	ug/L	103			70	135	
	1,1,1-Trichloroethane	20	20.1	ug/L	101			70	130	
	Benzene	20	20.2	ug/L	101			65	135	
	1,2-Dichloroethane	20	19.9	ug/L	100			70	130	
	Trichloroethene	20	19.2	ug/L	96			65	135	
	1,2-Dichloropropane	20	20.2	ug/L	101			35	165	
	Bromodichloromethane	20	19.8	ug/L	99			65	135	
	Toluene	20	20.0	ug/L	100			70	130	
	t-1,3-Dichloropropene	20	19.6	ug/L	98			50	150	
	cis-1,3-Dichloropropene	20	19.9	ug/L	100			25	175	
	1,1,2-Trichloroethane	20	20.3	ug/L	102			70	130	
	2-Chloroethyl vinyl ether	100	94.3	ug/L	94			1	225	
	Dibromochloromethane	20	19.6	ug/L	98			70	135	
	Tetrachloroethene	20	19.4	ug/L	97			70	130	
	Chlorobenzene	20	20.0	ug/L	100			65	135	
	Ethyl Benzene	20	19.8	ug/L	99			60	140	
	m/p-Xylenes	40	39.2	ug/L	98			87	111	
	o-Xylene	20	20.0	ug/L	100			87	111	
	Bromoform	20	19.3	ug/L	97			70	130	
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105			60	140	
	1,3-Dichlorobenzene	20	19.3	ug/L	97			70	130	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			65	135	
	1,2-Dichlorobenzene	20	20.1	ug/L	101			65	135	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1833

Client: Ardmore Chemical

Analytical Method: SW624.1

Datafile : VN086383.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0423WBSD01	Chloromethane	20	20.3	ug/L	102	2		1	205	20
	Vinyl Chloride	20	20.2	ug/L	101	3		5	195	20
	Bromomethane	20	20.8	ug/L	104	3		15	185	20
	Chloroethane	20	20.5	ug/L	103	1		40	160	20
	Trichlorofluoromethane	20	19.9	ug/L	100	5		50	150	20
	1,1-Dichloroethene	20	20.2	ug/L	101	3		50	150	20
	Acrolein	100	82.6	ug/L	83	9		60	140	20
	Acrylonitrile	100	110	ug/L	110	0		60	140	20
	Methylene Chloride	20	21.0	ug/L	105	1		60	140	20
	trans-1,2-Dichloroethene	20	20.5	ug/L	103	2		70	130	20
	1,1-Dichloroethane	20	20.1	ug/L	101	3		70	130	20
	Carbon Tetrachloride	20	19.2	ug/L	96	4		70	130	20
	Chloroform	20	20.8	ug/L	104	1		70	135	20
	1,1,1-Trichloroethane	20	19.6	ug/L	98	3		70	130	20
	Benzene	20	20.0	ug/L	100	1		65	135	20
	1,2-Dichloroethane	20	20.2	ug/L	101	1		70	130	20
	Trichloroethene	20	19.3	ug/L	97	1		65	135	20
	1,2-Dichloropropane	20	19.9	ug/L	100	1		35	165	20
	Bromodichloromethane	20	20.1	ug/L	101	2		65	135	20
	Toluene	20	20.0	ug/L	100	0		70	130	20
	t-1,3-Dichloropropene	20	19.7	ug/L	99	1		50	150	20
	cis-1,3-Dichloropropene	20	20.1	ug/L	101	1		25	175	20
	1,1,2-Trichloroethane	20	20.3	ug/L	102	0		70	130	20
	2-Chloroethyl vinyl ether	100	95.8	ug/L	96	2		1	225	20
	Dibromochloromethane	20	19.8	ug/L	99	1		70	135	20
	Tetrachloroethene	20	19.6	ug/L	98	1		70	130	20
	Chlorobenzene	20	20.0	ug/L	100	0		65	135	20
	Ethyl Benzene	20	19.5	ug/L	98	1		60	140	20
	m/p-Xylenes	40	38.9	ug/L	97	1		87	111	20
	o-Xylene	20	19.5	ug/L	98	2		87	111	20
	Bromoform	20	20.0	ug/L	100	3		70	130	20
	1,1,2,2-Tetrachloroethane	20	22.0	ug/L	110	5		60	140	20
	1,3-Dichlorobenzene	20	19.1	ug/L	96	1		70	130	20
	1,4-Dichlorobenzene	20	19.2	ug/L	96	2		65	135	20
	1,2-Dichlorobenzene	20	19.4	ug/L	97	4		65	135	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0423WBL01

Lab Name: CHEMTECH

Contract: ARDM01

Lab Code: CHEM Case No.: Q1833

SAS No.: Q1833 SDG NO.: Q1833

Lab File ID: VN086384.D

Lab Sample ID: VN0423WBL01

Date Analyzed: 04/23/2025

Time Analyzed: 16:00

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
VN0423WBS01	VN0423WBS01	VN086382.D	04/23/2025
VN0423WBSD01	VN0423WBSD01	VN086383.D	04/23/2025
EFF-WASTE-WATER	Q1833-01	VN086385.D	04/23/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ARDM01
Lab Code: CHEM Case No.: Q1833 SAS No.: Q1833 SDG NO.: Q1833
Lab File ID: VN086371.D BFB Injection Date: 04/23/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:43
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	19.9
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	70.5
175	5.0 - 9.0% of mass 174	5.5 (7.7) 1
176	95.0 - 101.0% of mass 174	67.1 (95.1) 1
177	5.0 - 9.0% of mass 176	4.7 (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
VSTDIC005	VSTDIC005	VN086372.D	04/23/2025	09:22
VSTDIC020	VSTDIC020	VN086373.D	04/23/2025	09:45
VSTDIC150	VSTDIC150	VN086378.D	04/23/2025	11:53
VSTDIC100	VSTDIC100	VN086379.D	04/23/2025	12:37
VSTDIC050	VSTDIC050	VN086380.D	04/23/2025	13:17
VN0423WBS01	VN0423WBS01	VN086382.D	04/23/2025	15:02
VN0423WBSD01	VN0423WBSD01	VN086383.D	04/23/2025	15:36
VN0423WBL01	VN0423WBL01	VN086384.D	04/23/2025	16:00
EFF-WASTE-WATER	Q1833-01	VN086385.D	04/23/2025	16:24

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ARDM01
 Lab Code: CHEM Case No.: Q1833 SAS No.: Q1833 SDG NO.: Q1833
 Lab File ID: VN086373.D Date Analyzed: 04/23/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:45
 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	28897	7.81	176907	9.09	163017	11.87
UPPER LIMIT	57794	8.312	353814	9.594	326034	12.365
LOWER LIMIT	14448.5	7.312	88453.5	8.594	81508.5	11.365
EPA SAMPLE NO.						
EFF-WASTE-WATER	27985	7.81	171526	9.10	153120	11.87
VN0423WBL01	27527	7.81	164046	9.10	143908	11.87
VN0423WBS01	28009	7.81	174005	9.09	158596	11.86
VN0423WBSD01	27716	7.81	168952	9.10	155573	11.87

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

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

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



SAMPLE DATA

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	04/17/25	
Project:	PVSC Monthly 2025			Date Received:	04/17/25	
Client Sample ID:	EFF-WASTE-WATER			SDG No.:	Q1833	
Lab Sample ID:	Q1833-01			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-PP	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086385.D	5		04/23/25 16:24	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	3.20	U	3.20	25.0	ug/L
75-01-4	Vinyl Chloride	4.20	U	4.20	25.0	ug/L
74-83-9	Bromomethane	4.00	U	4.00	25.0	ug/L
75-00-3	Chloroethane	11.6	U	11.6	25.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	25.0	ug/L
75-35-4	1,1-Dichloroethene	3.80	U	3.80	25.0	ug/L
107-02-8	Acrolein	33.1	U	33.1	130	ug/L
107-13-1	Acrylonitrile	14.0	U	14.0	130	ug/L
75-09-2	Methylene Chloride	4.30	U	4.30	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	4.10	U	4.10	25.0	ug/L
75-34-3	1,1-Dichloroethane	3.40	U	3.40	25.0	ug/L
56-23-5	Carbon Tetrachloride	3.70	U	3.70	25.0	ug/L
67-66-3	Chloroform	15.4	J	2.80	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	25.0	ug/L
71-43-2	Benzene	2.30	U	2.30	25.0	ug/L
107-06-2	1,2-Dichloroethane	2.50	U	2.50	25.0	ug/L
79-01-6	Trichloroethene	2.50	U	2.50	25.0	ug/L
78-87-5	1,2-Dichloropropane	2.30	U	2.30	25.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	25.0	ug/L
108-88-3	Toluene	2.30	U	2.30	25.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.60	U	3.60	25.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.40	U	3.40	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.30	U	2.30	25.0	ug/L
110-75-8	2-Chloroethyl vinyl ether	23.2	U	23.2	130	ug/L
124-48-1	Dibromochloromethane	3.30	U	3.30	25.0	ug/L
127-18-4	Tetrachloroethene	4.20	U	4.20	25.0	ug/L
108-90-7	Chlorobenzene	2.40	U	2.40	25.0	ug/L
100-41-4	Ethyl Benzene	2.80	U	2.80	25.0	ug/L
179601-23-1	m/p-Xylenes	6.50	U	6.50	50.0	ug/L
95-47-6	o-Xylene	3.40	U	3.40	25.0	ug/L

Report of Analysis

Client:	Ardmore Chemical	Date Collected:	04/17/25
Project:	PVSC Monthly 2025	Date Received:	04/17/25
Client Sample ID:	EFF-WASTE-WATER	SDG No.:	Q1833
Lab Sample ID:	Q1833-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-PP
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086385.D	5		04/23/25 16:24	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	4.70	U	4.70	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.20	U	2.20	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.40	U	3.40	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	4.10	U	4.10	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.40	U	3.40	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.8		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	30.5		91 - 112	102%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.3		63 - 112	94%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28000	7.812			
540-36-3	1,4-Difluorobenzene	172000	9.1			
3114-55-4	Chlorobenzene-d5	153000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086385.D
 Acq On : 23 Apr 2025 16:24
 Operator : JC\MD
 Sample : Q1833-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

Quant Time: Apr 24 05:01:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

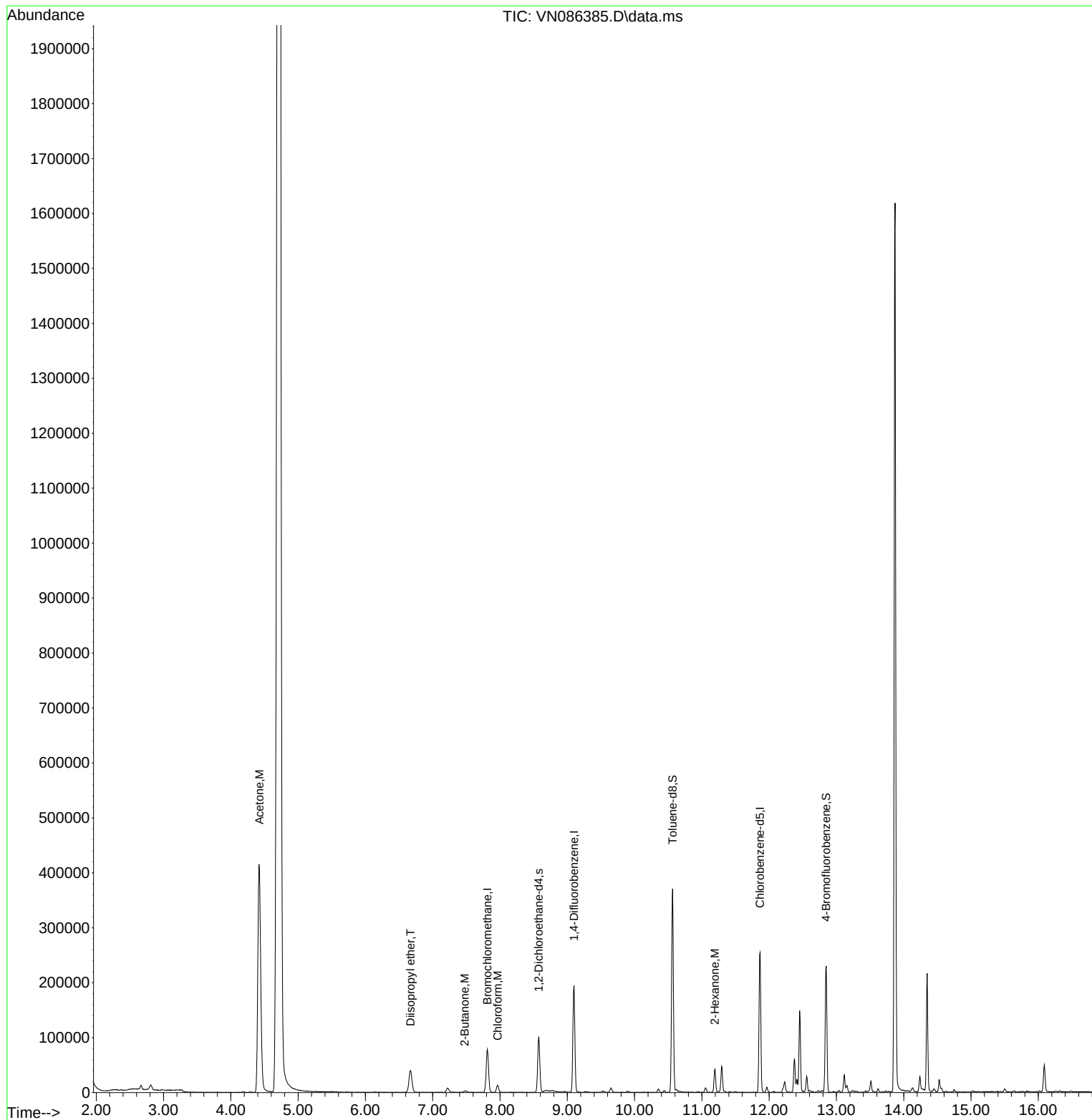
Internal Standards						
1) Bromochloromethane	7.812	128	27985	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	171526	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153120	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83028	30.773	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.567%	
60) 4-Bromofluorobenzene	12.847	95	85059	28.264	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.200%	
63) Toluene-d8	10.565	98	256697	30.473	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.567%	
Target Compounds						Qvalue
15) Acetone	4.424	58	247844	873.327	ug/l	95
20) Diisopropyl ether	6.671	45	51372	6.921	ug/l	97
25) Chloroform	7.965	83	12701	3.089	ug/l	96
30) 2-Butanone	7.477	43	4807	3.275	ug/l #	90
59) 2-Hexanone	11.194	43	28516	13.059	ug/l	99

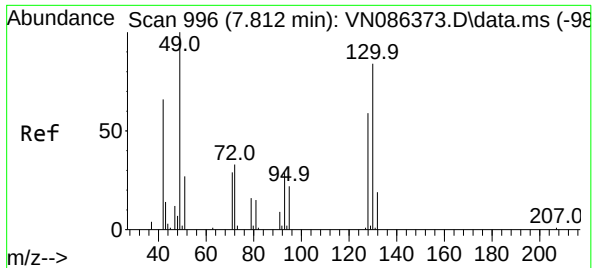
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086385.D
Acq On : 23 Apr 2025 16:24
Operator : JC\MD
Sample : Q1833-01 5X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

Quant Time: Apr 24 05:01:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 04:42:24 2025
Response via : Initial Calibration

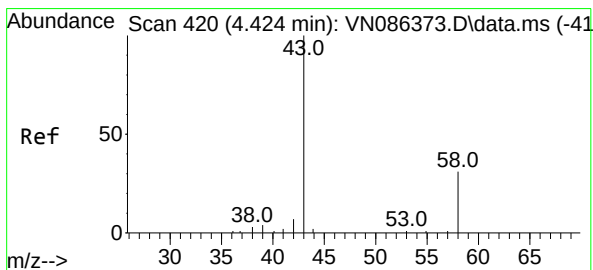
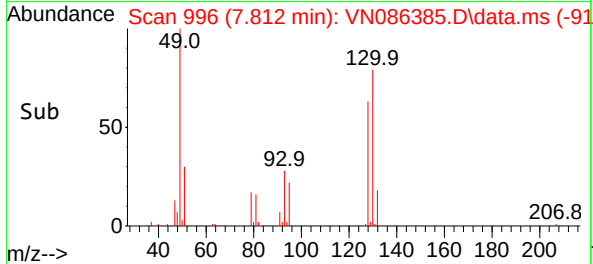
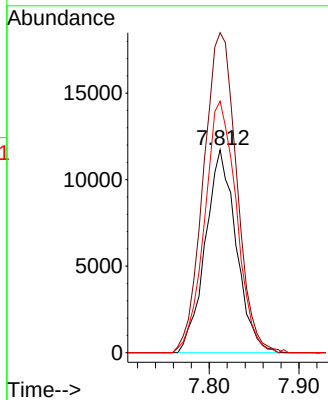
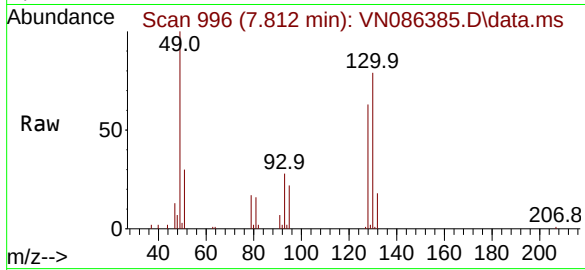




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

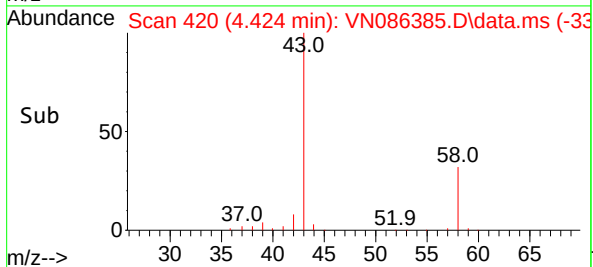
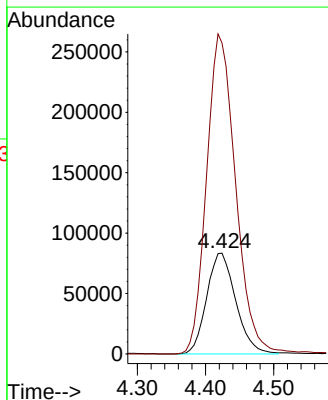
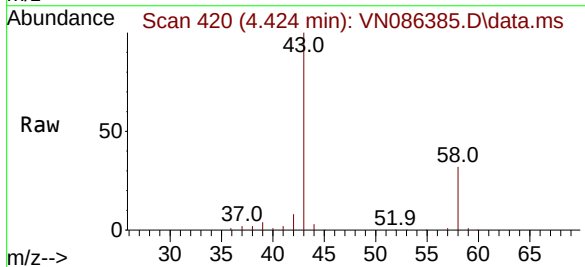
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

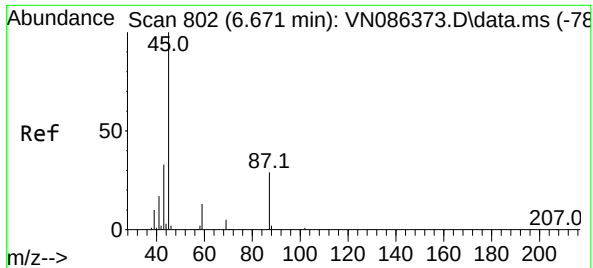
Tgt Ion	Ratio	Lower	Upper
128	100		
49	169.5	0.0	433.8
130	128.2	0.0	325.0



#15
Acetone
Concen: 873.327 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion	Ratio	Lower	Upper
58	100		
43	308.1	255.1	382.7

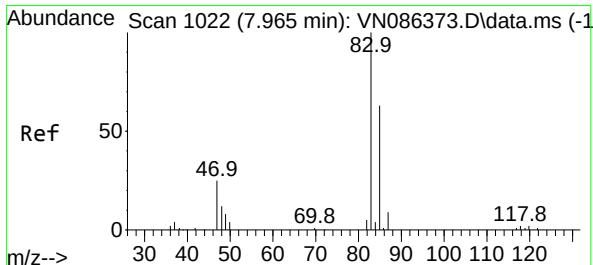
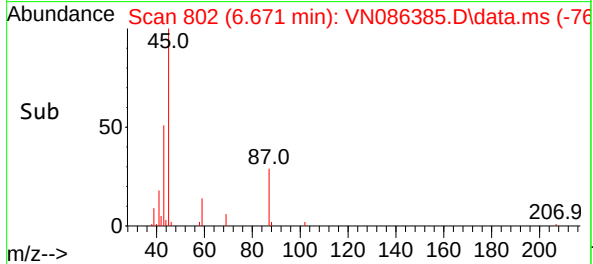
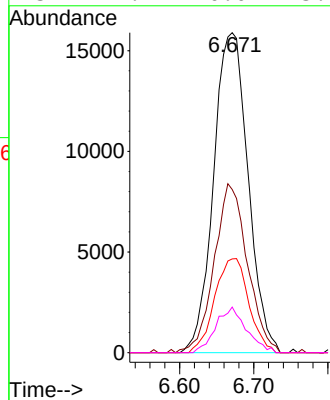
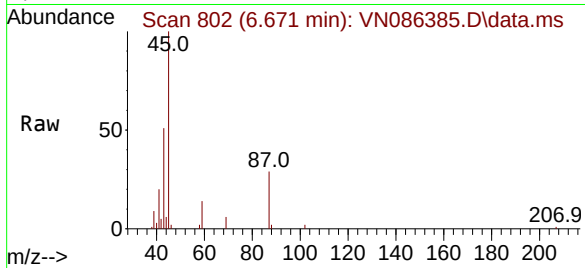




#20
Diisopropyl ether
Concen: 6.921 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

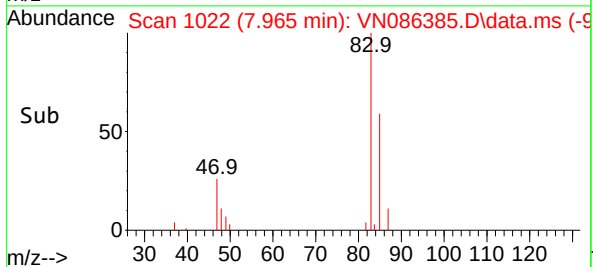
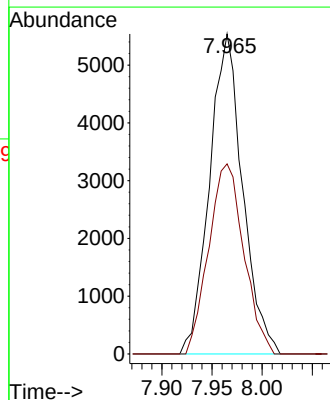
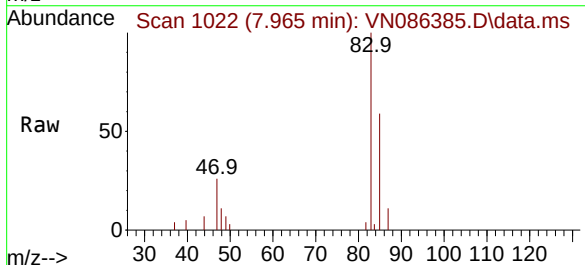
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

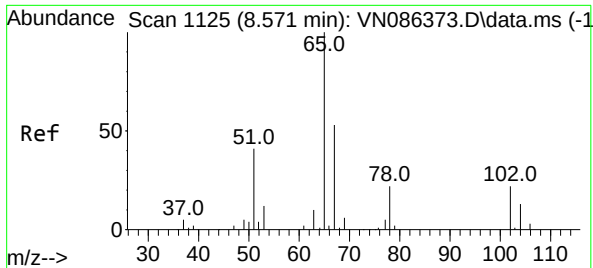
Tgt Ion:	45	Resp:	51372
Ion	Ratio	Lower	Upper
45	100		
43	51.0	38.8	58.2
87	29.3	23.5	35.3
59	14.2	10.0	15.0



#25
Chloroform
Concen: 3.089 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:	83	Resp:	12701
Ion	Ratio	Lower	Upper
83	100		
85	59.4	50.2	75.2





#27

1,2-Dichloroethane-d4

Concen: 30.773 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

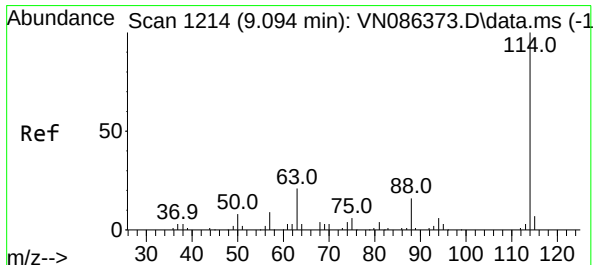
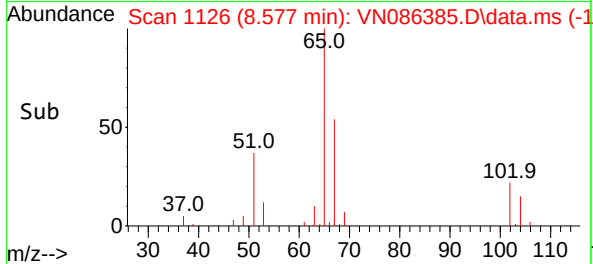
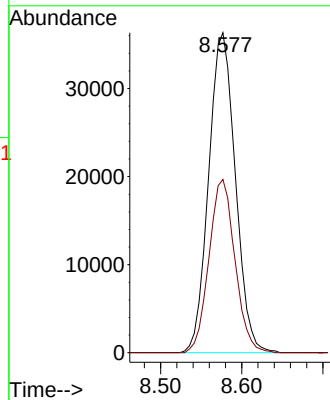
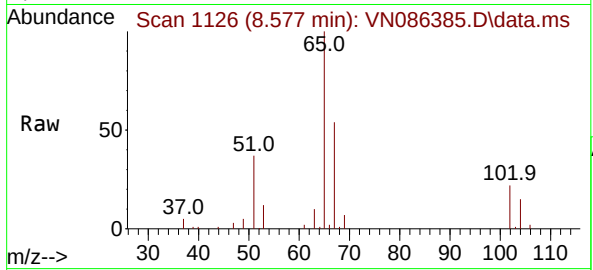
EFF-WASTE-WATER

Tgt Ion: 65 Resp: 83028

Ion Ratio Lower Upper

65 100

67 52.6 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN086385.D

Acq: 23 Apr 2025 16:24

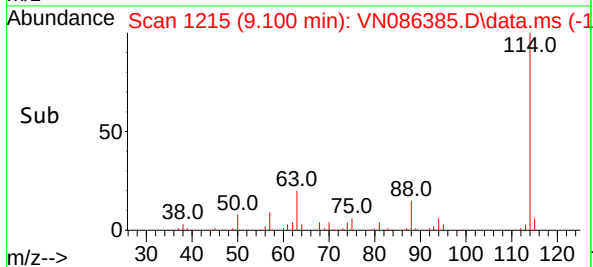
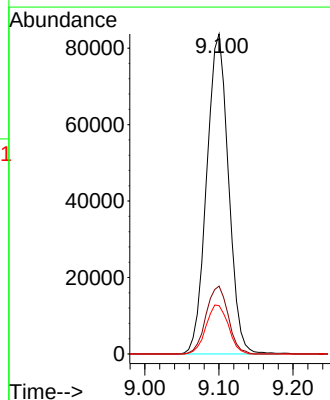
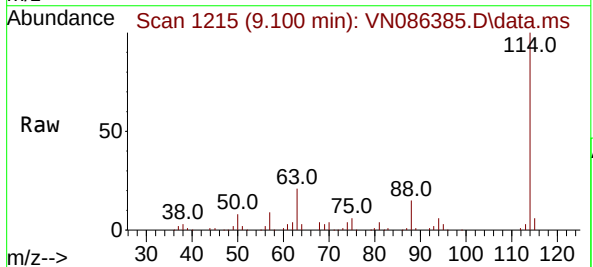
Tgt Ion: 114 Resp: 171526

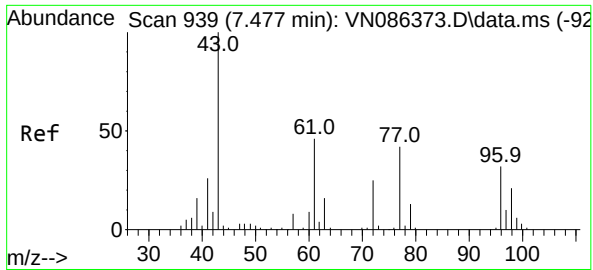
Ion Ratio Lower Upper

114 100

63 21.5 16.7 25.1

88 15.7 12.6 19.0

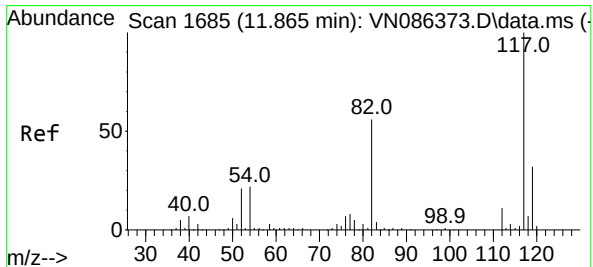
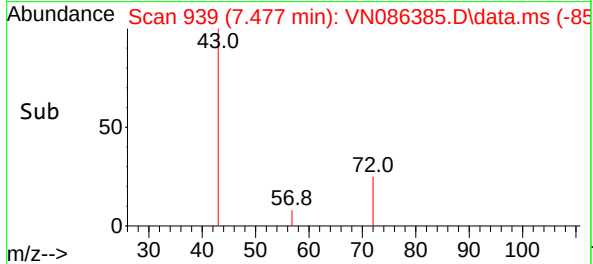
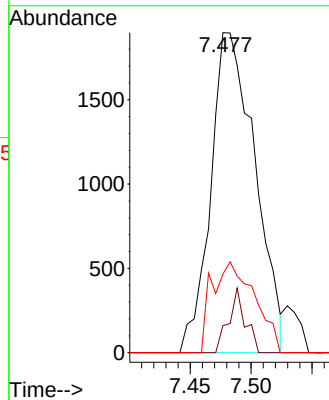
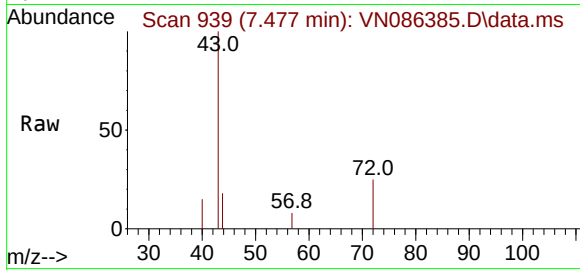




#30
2-Butanone
Concen: 3.275 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

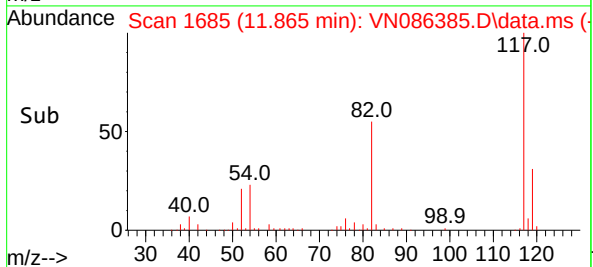
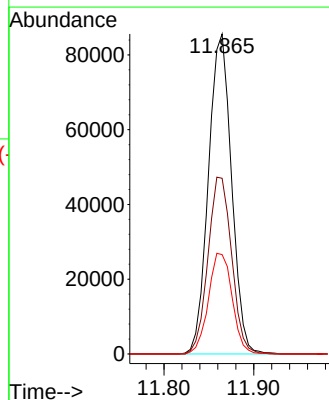
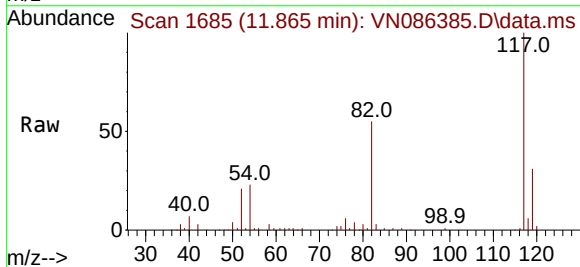
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

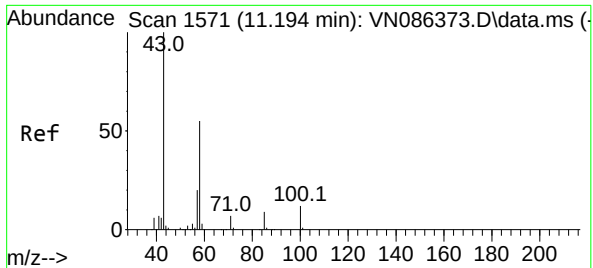
Tgt Ion: 43 Resp: 4807
Ion Ratio Lower Upper
43 100
57 7.6 6.6 10.0
72 21.4 22.2 33.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion: 117 Resp: 153120
Ion Ratio Lower Upper
117 100
82 56.6 45.5 68.3
119 32.4 25.9 38.9

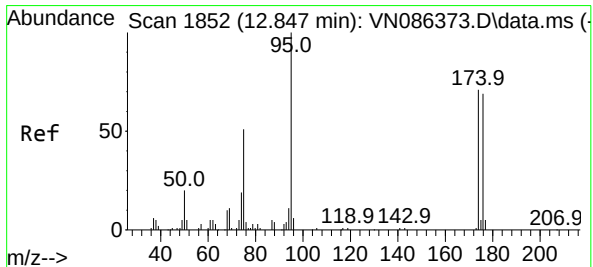
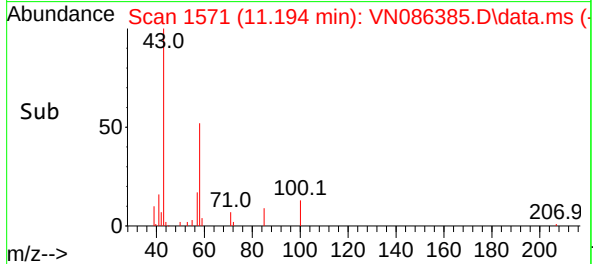
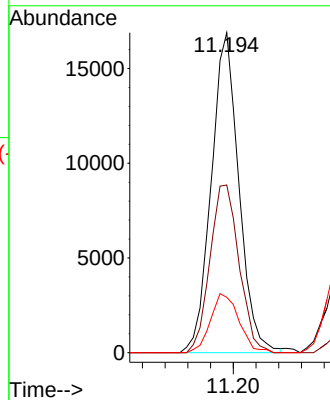
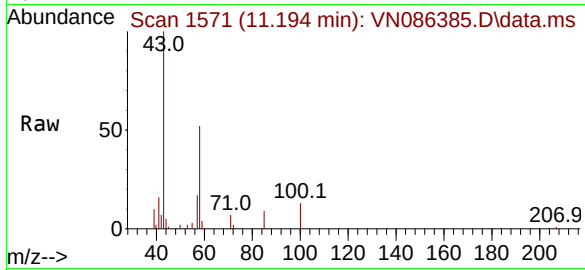




#59
2-Hexanone
Concen: 13.059 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

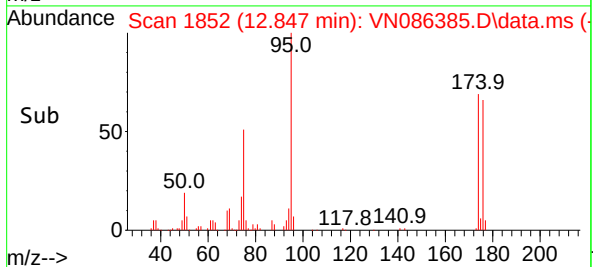
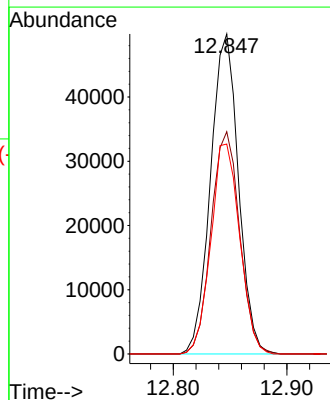
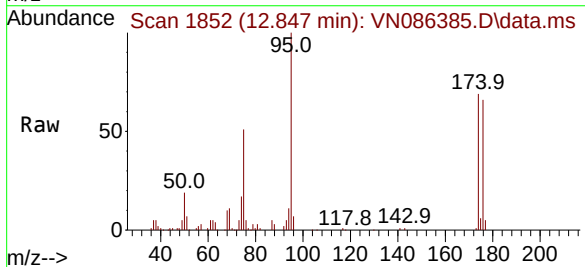
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

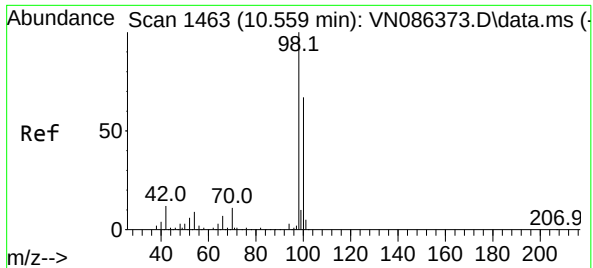
Tgt Ion:	43	Resp:	28516
Ion Ratio	Lower	Upper	
43	100		
58	55.2	45.0	67.6
57	18.8	15.5	23.3



#60
4-Bromofluorobenzene
Concen: 28.264 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086385.D
Acq: 23 Apr 2025 16:24

Tgt Ion:	95	Resp:	85059
Ion Ratio	Lower	Upper	
95	100		
174	71.0	56.6	84.8
176	68.0	53.3	79.9





#63

Toluene-d8

Concen: 30.473 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN086385.D

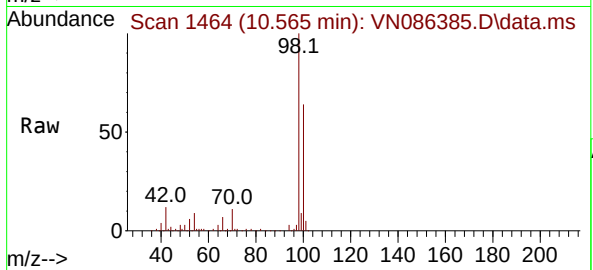
Acq: 23 Apr 2025 16:24

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER

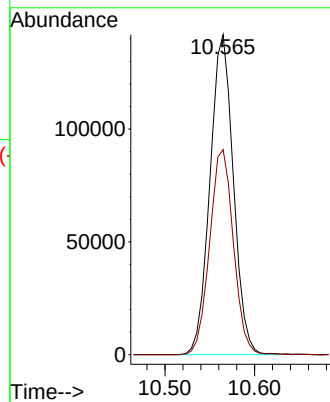
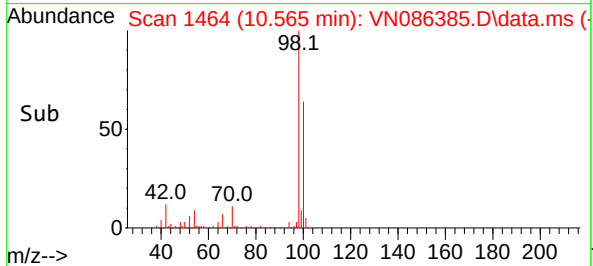


Tgt Ion: 98 Resp: 256697

Ion Ratio Lower Upper

98 100

100 65.2 53.1 79.7





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ARDM01
 Lab Code: CHEM Case No.: Q1833 SAS No.: Q1833 SDG No.: Q1833
 Instrument ID: MSVOA_N Calibration Date(s): 04/23/2025 04/23/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:22 13:17
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VN086372.D RRF020 = VN086373.D RRF150 = VN086378.D RRF100 = VN086379.D RRF050 = VN086380.D RRF =								
COMPOUND	RRF005	RRF020	RRF150	RRF100	RRF050	RRF	RRF	% RSD
Chloromethane	3.216	2.904	2.653	3.019	2.918		2.942	6.9
Vinyl Chloride	2.886	2.817	2.651	2.876	2.859		2.818	3.4
Bromomethane	1.616	1.501	1.345	1.430	1.464		1.471	6.8
Chloroethane	2.003	1.878	1.799	1.857	1.855		1.879	4
Trichlorofluoromethane	3.412	3.403	3.188	3.348	3.279		3.326	2.8
1,1-Dichloroethene	2.187	2.095	2.008	2.096	2.078		2.093	3
Acrolein	0.278	0.128	0.108	0.118	0.120		0.150	47.8
Acrylonitrile	1.077	1.106	1.102	1.110	1.125		1.104	1.6
Methylene Chloride	2.496	2.378	2.310	2.375	2.359		2.383	2.9
trans-1,2-Dichloroethene	2.358	2.200	2.184	2.227	2.184		2.231	3.3
1,1-Dichloroethane	4.480	4.324	4.288	4.368	4.318		4.356	1.7
Carbon Tetrachloride	0.511	0.508	0.530	0.541	0.510		0.520	2.9
Chloroform	4.536	4.461	4.319	4.386	4.338		4.408	2
1,1,1-Trichloroethane	0.641	0.613	0.639	0.651	0.616		0.632	2.6
Benzene	1.686	1.635	1.701	1.748	1.641		1.682	2.8
1,2-Dichloroethane	0.546	0.533	0.555	0.567	0.530		0.546	2.8
Trichloroethene	0.410	0.397	0.441	0.440	0.417		0.421	4.6
1,2-Dichloropropane	0.432	0.402	0.415	0.427	0.402		0.416	3.3
Bromodichloromethane	0.580	0.571	0.599	0.612	0.579		0.588	2.8
Toluene	2.025	1.957	2.024	2.071	1.963		2.008	2.4
t-1,3-Dichloropropene	0.625	0.629	0.691	0.699	0.644		0.657	5.3
cis-1,3-Dichloropropene	0.668	0.664	0.721	0.732	0.682		0.693	4.5
1,1,2-Trichloroethane	0.375	0.383	0.401	0.404	0.378		0.388	3.5
2-Chloroethyl vinyl ether	0.293	0.309	0.344	0.328	0.315		0.318	6.1
Dibromochloromethane	0.415	0.419	0.457	0.458	0.430		0.436	4.7
Tetrachloroethene	0.475	0.432	0.471	0.468	0.441		0.458	4.3
Chlorobenzene	1.261	1.216	1.268	1.291	1.220		1.251	2.6
Ethyl Benzene	2.219	2.187	2.335	2.359	2.202		2.260	3.5
m/p-Xylenes	0.849	0.824	0.889	0.894	0.832		0.858	3.8
o-Xylene	0.825	0.804	0.878	0.876	0.816		0.840	4.1

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ARDM01
 Lab Code: CHEM Case No.: Q1833 SAS No.: Q1833 SDG No.: Q1833
 Instrument ID: MSVOA_N Calibration Date(s): 04/23/2025 04/23/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:22 13:17
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN086372.D		RRF020 = VN086373.D		RRF150 = VN086378.D	
		RRF100 = VN086379.D		RRF050 = VN086380.D		RRF =	
COMPOUND	RRF005	RRF020	RRF150	RRF100	RRF050	RRF	% RSD
Bromoform	0.253	0.274	0.308	0.302	0.277	0.283	7.9
1,1,2,2-Tetrachloroethane	0.562	0.566	0.541	0.553	0.539	0.552	2.2
1,3-Dichlorobenzene	0.837	0.834	1.011	0.961	0.912	0.911	8.5
1,4-Dichlorobenzene	0.841	0.825	0.991	0.951	0.891	0.900	7.9
1,2-Dichlorobenzene	0.830	0.800	0.938	0.906	0.860	0.867	6.5
1,2-Dichloroethane-d4	2.976	2.979	2.796	2.764	2.947	2.892	3.6
Toluene-d8	1.667	1.660	1.634	1.636	1.655	1.650	0.9
4-Bromofluorobenzene	0.564	0.577	0.621	0.601	0.585	0.590	3.7

* 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 : 624N042325W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Apr 24 04:42:24 2025
 Response Via : Initial Calibration

Calibration Files

5 =VN086372.D 20 =VN086373.D 50 =VN086380.D 100 =VN086379.D 150 =VN086378.D

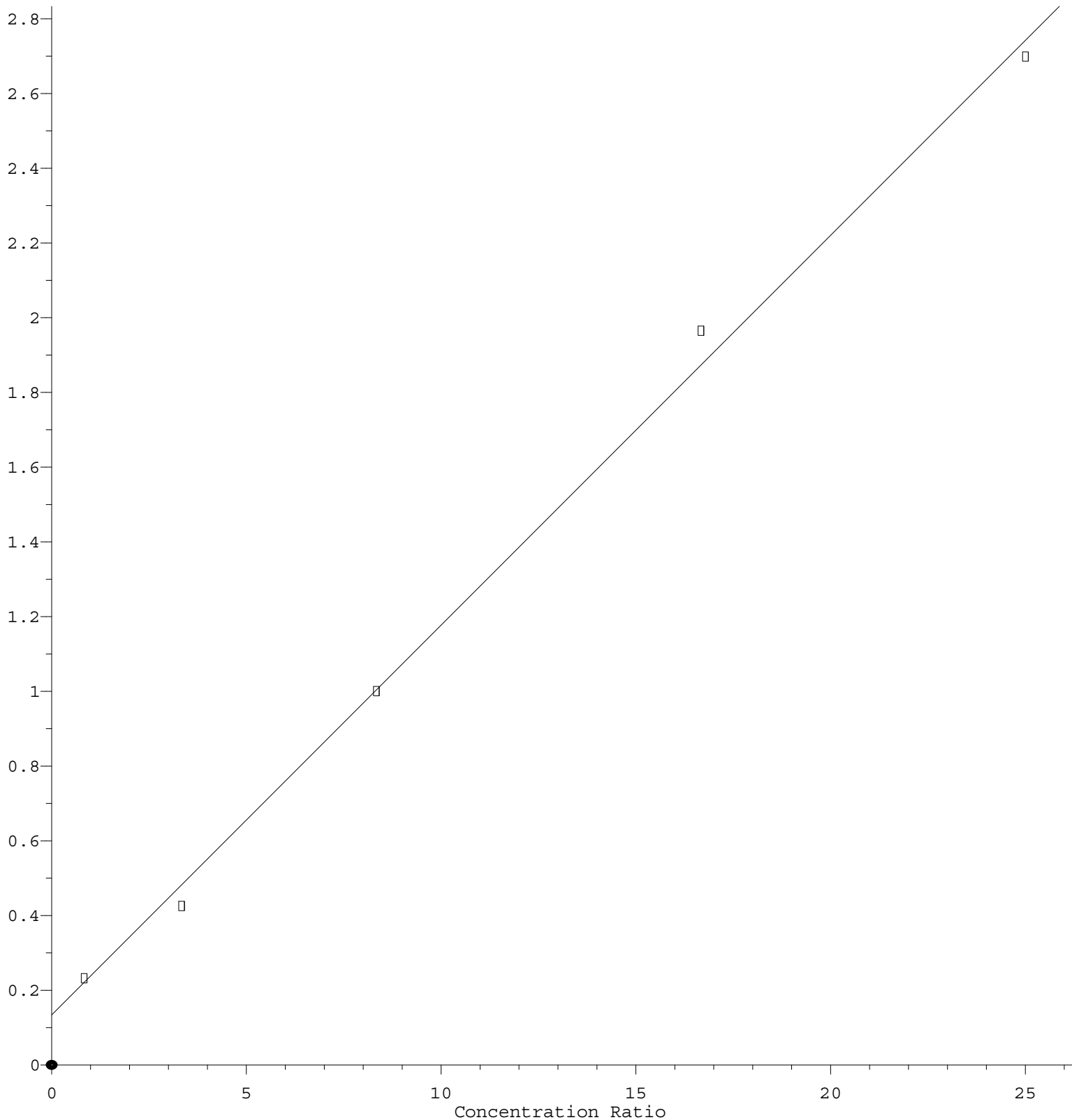
Compound		5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.917	2.126	2.171	2.167	1.975	2.071	5.68
3) M	Chloromethane	3.216	2.904	2.918	3.019	2.653	2.942	6.93
4) M	Vinyl Chloride	2.886	2.817	2.859	2.876	2.651	2.818	3.44
5) M	Bromomethane	1.616	1.501	1.464	1.430	1.345	1.471	6.75
6) M	Chloroethane	2.003	1.878	1.855	1.857	1.799	1.879	4.02
7) M	Trichlorofluorom...	3.412	3.403	3.279	3.348	3.188	3.326	2.81
8) T	Diethyl Ether	1.450	1.385	1.431	1.404	1.351	1.404	2.74
9)	1,1,2-Trichlorot...	2.047	2.048	2.067	2.076	1.986	2.045	1.72
10) M	1,1-Dichloroethene	2.187	2.095	2.078	2.096	2.008	2.093	3.04
11)	Methyl Iodide	2.367	2.424	2.474	2.513	2.465	2.449	2.26
12)	Methyl Acetate	2.724	3.004	3.062	2.996	3.045	2.966	4.65
13) M	Acrolein	0.278	0.128	0.120	0.118	0.108	0.150	47.78
14) M	Acrylonitrile	1.077	1.106	1.125	1.110	1.102	1.104	1.61
15) M	Acetone	0.322	0.279	0.314	0.308	0.299	0.304	5.45
16) M	Carbon Disulfide	6.254	5.604	5.547	5.281	4.888	5.515	9.08
17)	Allyl chloride	3.566	3.253	3.306	3.383	3.225	3.346	4.09
18) M	Methylene Chloride	2.496	2.378	2.359	2.375	2.310	2.383	2.87
19) M	trans-1,2-Dichlo...	2.358	2.200	2.184	2.227	2.184	2.231	3.29
20) T	Diisopropyl ether	7.877	7.820	7.946	8.163	7.978	7.957	1.64
21) M	1,1-Dichloroethane	4.480	4.324	4.318	4.368	4.288	4.355	1.73
22) M	cis-1,2-Dichloro...	2.887	2.738	2.736	2.819	2.766	2.789	2.30
23) M	tert-Butyl Alcohol	0.458	0.454	0.430	0.400	0.395	0.428	6.87
24) M	Methyl tert-Buty...	7.806	7.711	7.760	7.761	7.625	7.733	0.89
25) M	Chloroform	4.536	4.461	4.338	4.386	4.319	4.408	2.05
26)	Cyclohexane	4.076	3.777	3.814	3.828	3.734	3.846	3.48
27) s	1,2-Dichloroetha...	2.976	2.979	2.947	2.764	2.796	2.892	3.59
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.520	0.506	0.521	0.556	0.541	0.529	3.75
30) M	2-Butanone	0.249	0.247	0.257	0.267	0.263	0.257	3.31
31)	2,2-Dichloropropane	0.689	0.658	0.662	0.699	0.690	0.680	2.68
32) M	1,1,1-Trichloroe...	0.641	0.613	0.616	0.651	0.639	0.632	2.59
33) M	Carbon Tetrachlo...	0.511	0.508	0.510	0.541	0.530	0.520	2.86
34) M	Benzene	1.686	1.635	1.641	1.748	1.701	1.682	2.76
35)	Methacrylonitrile	0.271	0.299	0.290	0.303	0.301	0.293	4.50
36) M	1,2-Dichloroethane	0.546	0.533	0.530	0.567	0.555	0.546	2.82
37) M	Trichloroethene	0.410	0.397	0.417	0.440	0.441	0.421	4.55
38)	Methylcyclohexane	0.602	0.589	0.606	0.643	0.614	0.611	3.34
39) M	1,2-Dichloropropane	0.432	0.402	0.402	0.427	0.415	0.416	3.32
40)	Dibromomethane	0.279	0.272	0.269	0.285	0.284	0.278	2.47
41) M	Bromodichloromet...	0.580	0.571	0.579	0.612	0.599	0.588	2.85
42) M	Vinyl Acetate	0.925	0.879	0.895	0.905	0.843	0.889	3.47
43)	Ethyl Acetate	0.569	0.474	0.482	0.510	0.505	0.508	7.33
44)	Isopropyl Acetate	1.032	0.932	0.939	0.967	0.951	0.964	4.17
45) T	1,4-Dioxane	0.007	0.008	0.008	0.008	0.007	0.008	2.55
46)	Methyl methacrylate	0.441	0.431	0.439	0.458	0.455	0.445	2.59
47)	n-amyl Acetate	0.751	0.783	0.802	0.867	0.906	0.822	7.70
48) M	t-1,3-Dichloropr...	0.625	0.629	0.644	0.699	0.691	0.657	5.33
49) T	cis-1,3-Dichloro...	0.668	0.664	0.682	0.732	0.721	0.693	4.47
50) M	1,1,2-Trichloroe...	0.375	0.383	0.378	0.404	0.401	0.388	3.49
51)	Ethyl methacrylate	0.630	0.647	0.671	0.718	0.714	0.676	5.81
52)	1,3-Dichloropropane	0.671	0.667	0.674	0.714	0.705	0.686	3.19
53) M	Dibromochloromet...	0.415	0.419	0.430	0.458	0.457	0.436	4.66
54) M	1,2-Dibromoethane	0.384	0.384	0.387	0.411	0.407	0.395	3.37
55) M	2-Chloroethyl vi...	0.293	0.309	0.315	0.328	0.344	0.318	6.09
56) M	Bromoform	0.253	0.274	0.277	0.302	0.308	0.283	7.85

(#) = Out of Range

Acrolein

Response Ratio



$$\text{Response} = 1.044\text{e-}001 * \text{Amt} + 1.337\text{e-}001$$

Coef of Det (r^2) = 0.996125 Curve Fit: wlr(1/a)

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\624N042325W.M

Calibration Table Last Updated: Thu Apr 24 04:42:24 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086372.D
 Acq On : 23 Apr 2025 09:22
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John
 Carlone

04/24/2025

Supervised By :Mahesh
 Dadoda

04/25/2025

Quant Time: Apr 24 04:20:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	D
-----							04
Internal Standards							
1) Bromochloromethane	7.806	128	29756	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	9.094	114	182016	30.000	ug/l	0.00	
57) Chlorobenzene-d5	11.859	117	162942	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.577	65	88562	30.870	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.900%	
60) 4-Bromofluorobenzene	12.847	95	91848	28.680	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.600%	
63) Toluene-d8	10.565	98	271554	30.293	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.967%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	2.124	85	9505	4.627	ug/l		94
3) Chloromethane	2.365	50	15950	5.466	ug/l		97
4) Vinyl Chloride	2.518	62	14315	5.122	ug/l		99
5) Bromomethane	2.959	94	8013	5.491	ug/l		98
6) Chloroethane	3.124	64	9935	5.332	ug/l	#	84
7) Trichlorofluoromethane	3.500	101	16921	5.129	ug/l		94
8) Diethyl Ether	3.953	74	7189	5.162	ug/l		97
9) 1,1,2-Trichlorotrifluo...	4.371	101	10150	5.005	ug/l		77
10) 1,1-Dichloroethene	4.341	96	10844	5.224	ug/l		96
11) Methyl Iodide	4.589	142	11741	4.834	ug/l		99
12) Methyl Acetate	5.018	43	13511	4.592	ug/l		93
13) Acrolein	4.183	56	6900	28.215	ug/l		86
14) Acrylonitrile	5.712	53	26695	24.377	ug/l		98
15) Acetone	4.430	58	7975	26.429	ug/l		79
16) Carbon Disulfide	4.712	76	31017	5.670	ug/l		97
17) Allyl chloride	5.018	41	17686m	5.328	ug/l		
18) Methylene Chloride	5.283	84	12377m	5.236	ug/l		
19) trans-1,2-Dichloroethene	5.788	96	11694m	5.285	ug/l		
20) Diisopropyl ether	6.671	45	39066	4.950	ug/l		94
21) 1,1-Dichloroethane	6.559	63	22218	5.143	ug/l		96
22) cis-1,2-Dichloroethene	7.482	96	14319	5.176	ug/l		96
23) tert-Butyl Alcohol	5.518	59	11367m	26.795	ug/l		
24) Methyl tert-Butyl Ether	5.794	73	38714	5.048	ug/l		96
25) Chloroform	7.959	83	22497	5.145	ug/l		99
26) Cyclohexane	8.253	56	20215	5.300	ug/l	#	95
29) 1,1-Dichloropropene	8.365	75	15773	4.916	ug/l		87
30) 2-Butanone	7.477	43	37820	24.283	ug/l	#	95
31) 2,2-Dichloropropane	7.488	77	20892	5.065	ug/l		97
32) 1,1,1-Trichloroethane	8.165	97	19441	5.070	ug/l		99
33) Carbon Tetrachloride	8.359	117	15492	4.908	ug/l		92
34) Benzene	8.600	78	51159	5.013	ug/l	#	88
35) Methacrylonitrile	7.777	41	8219	4.626	ug/l		91
36) 1,2-Dichloroethane	8.665	62	16569	5.000	ug/l		100
37) Trichloroethene	9.353	130	12434	4.867	ug/l		87
38) Methylcyclohexane	9.594	83	18253	4.925	ug/l		97
39) 1,2-Dichloropropane	9.618	63	13105	5.198	ug/l		96
40) Dibromomethane	9.706	93	8472	5.025	ug/l		94
41) Bromodichloromethane	9.882	83	17604	4.934	ug/l		97
42) Vinyl Acetate	6.600	43	140295	26.004	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086372.D
 Acq On : 23 Apr 2025 09:22
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

04/24/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Apr 24 04:20:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	17261	5.600	ug/l	97
44) Isopropyl Acetate	8.682	43	31305	5.352	ug/l	95
45) 1,4-Dioxane	9.694	88	4393	96.252	ug/l #	91
46) Methyl methacrylate	9.676	41	13386	4.961	ug/l	93
47) n-amyl Acetate	12.488	43	22791	4.571	ug/l	98
48) t-1,3-Dichloropropene	10.829	75	18958	4.752	ug/l	90
49) cis-1,3-Dichloropropene	10.312	75	20273	4.819	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	11391	4.837	ug/l	91
51) Ethyl methacrylate	10.871	69	19126	4.663	ug/l	99
52) 1,3-Dichloropropane	11.159	76	20341	4.887	ug/l	98
53) Dibromochloromethane	11.359	129	12596	4.763	ug/l	99
54) 1,2-Dibromoethane	11.465	107	11656	4.868	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	44387	23.017	ug/l	99
56) Bromoform	12.576	173	7673	4.471	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	78517	24.901	ug/l	99
59) 2-Hexanone	11.188	43	57648	24.809	ug/l	98
61) Tetrachloroethene	11.100	164	12905	5.193	ug/l	95
62) Toluene	10.623	91	54989	5.042	ug/l	97
64) Chlorobenzene	11.888	112	34249	5.040	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.959	131	11318	4.981	ug/l	98
66) Ethyl Benzene	11.959	91	60268	4.909	ug/l	100
67) m/p-Xylenes	12.065	106	46132	9.904	ug/l	100
68) o-Xylene	12.394	106	22418	4.915	ug/l	96
69) Styrene	12.406	104	35329	4.570	ug/l	98
70) Isopropylbenzene	12.694	105	54240	4.764	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15250	5.087	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	12969m	4.993	ug/l	
73) Bromobenzene	12.976	156	12582	4.807	ug/l	97
74) n-propylbenzene	13.029	91	62642	4.630	ug/l	99
75) 2-Chlorotoluene	13.117	91	41015	4.856	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	43366	4.642	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	6133	4.624	ug/l	95
78) 4-Chlorotoluene	13.217	91	39565	4.685	ug/l	100
79) tert-butylbenzene	13.435	119	38515	4.814	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	44636	4.679	ug/l	100
81) sec-Butylbenzene	13.611	105	54186	4.745	ug/l	100
82) p-Isopropyltoluene	13.723	119	42872	4.486	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	22737	4.595	ug/l	98
84) 1,4-Dichlorobenzene	13.811	146	22845	4.673	ug/l	98
85) n-Butylbenzene	14.053	91	37323	4.377	ug/l	99
86) Hexachloroethane	14.323	117	7050	4.512	ug/l	95
87) 1,2-Dichlorobenzene	14.106	146	22541	4.788	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.711	75	2991	4.909	ug/l #	89
89) 1,2,4-Trichlorobenzene	15.829	180	9424	4.392	ug/l	98
90) Hexachlorobutadiene	15.500	225	4341	5.023	ug/l	96
91) Naphthalene	15.635	128	33080	4.306	ug/l	97
92) 1,2,3-Trichlorobenzene	15.829	180	9424	4.392	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086372.D
Acq On : 23 Apr 2025 09:22
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

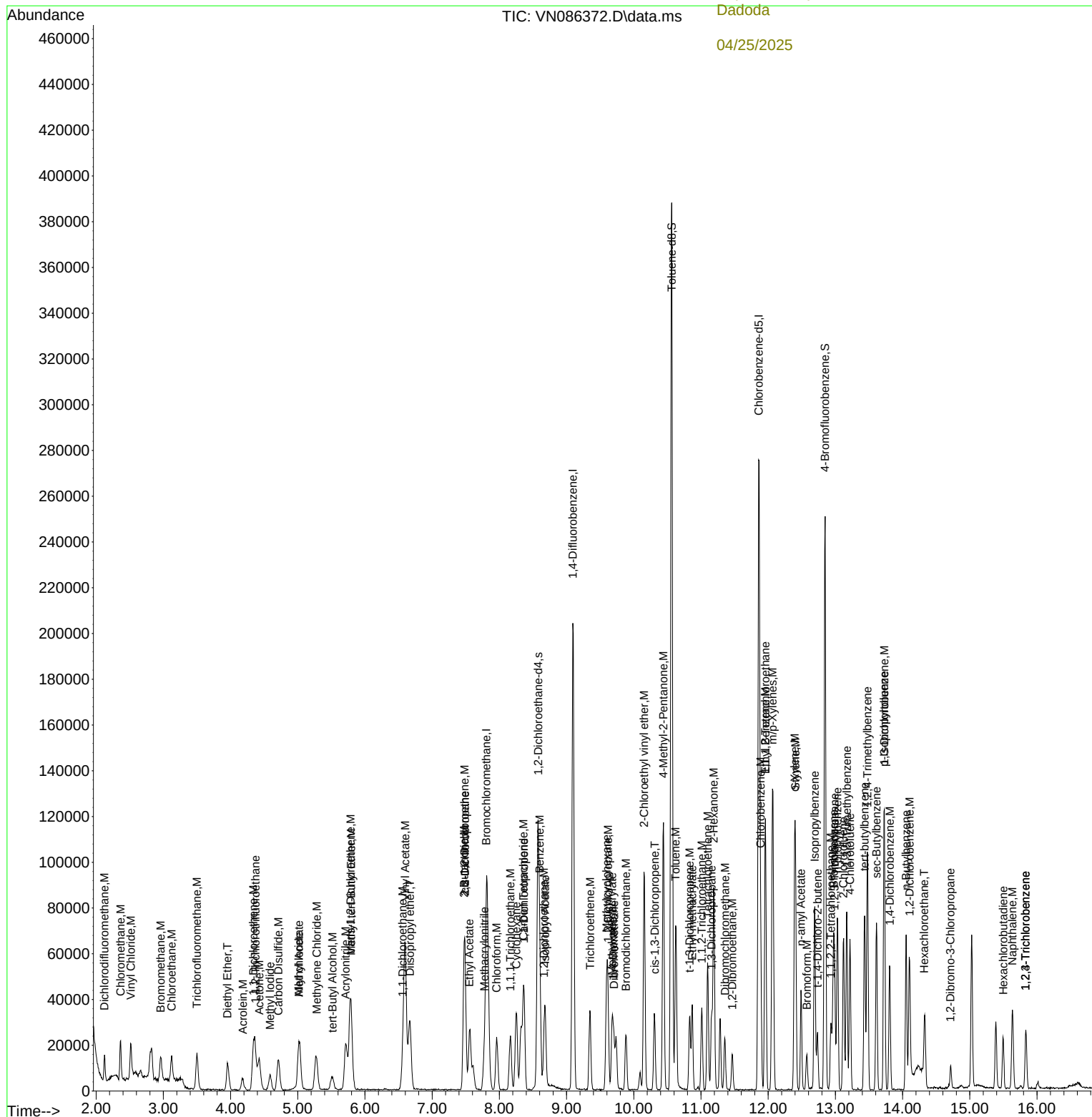
Manual Integrations APPROVED

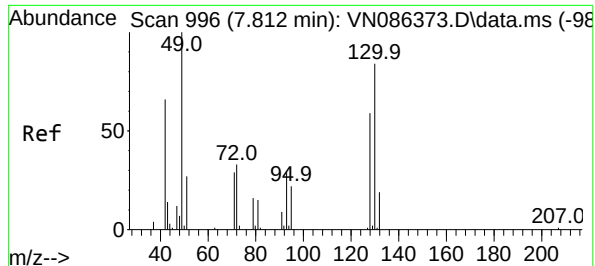
Reviewed By :John
Carlone

04/24/2025
Supervised By :Mahesh
Dadoda

04/25/2025

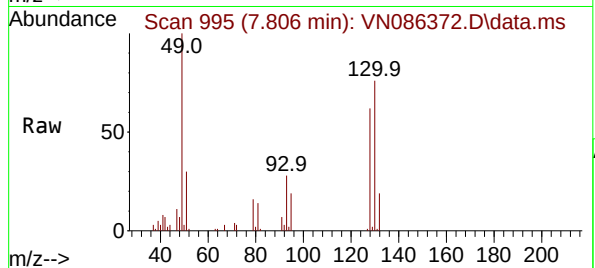
Quant Time: Apr 24 04:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 03:57:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



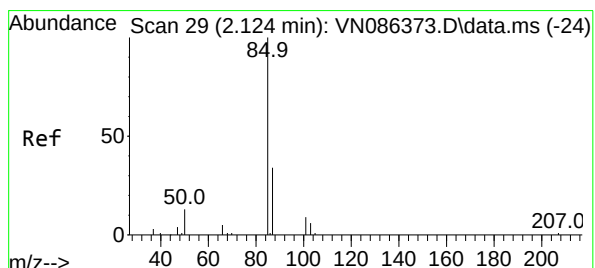
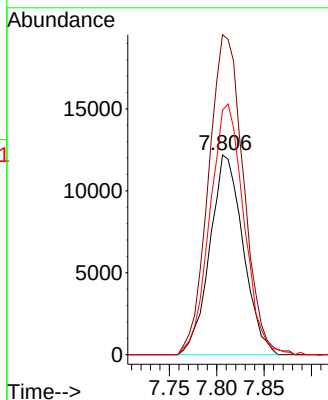
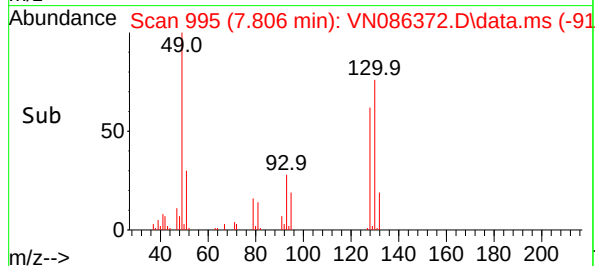
Tgt Ion:128 Resp: 29750
Ion Ratio Lower Upper
128 100
49 168.0 0.0 433.8
130 128.5 0.0 325.0

Manual Integrations
APPROVED

Reviewed By :John
Carlone

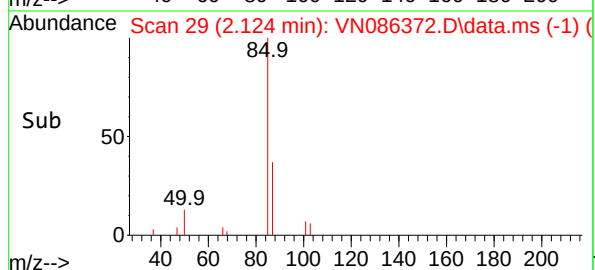
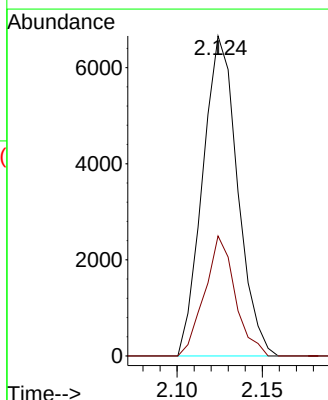
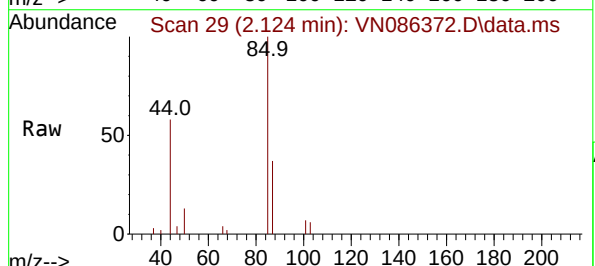
04/24/2025
Supervised By :Mahesh
Dadoda

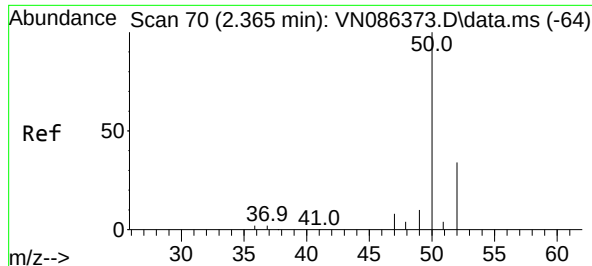
04/25/2025



#2
Dichlorodifluoromethane
Concen: 4.627 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

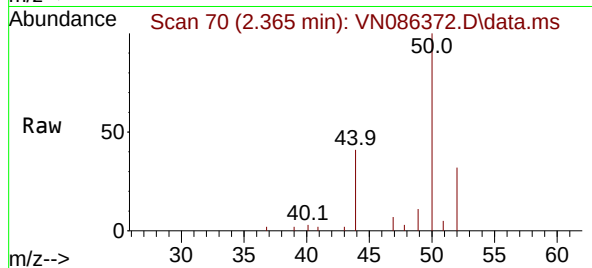
Tgt Ion: 85 Resp: 9505
Ion Ratio Lower Upper
85 100
87 37.5 17.0 50.9





#3
Chloromethane
Concen: 5.466 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



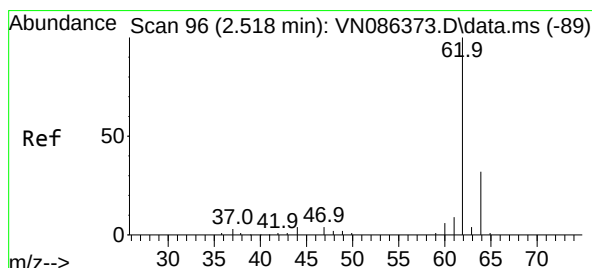
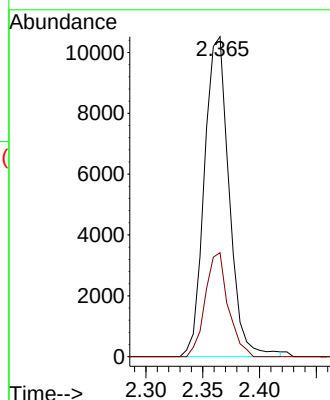
Tgt Ion: 50 Resp: 15950
Ion Ratio Lower Upper
50 100
52 32.5 27.3 40.9

Manual Integrations
APPROVED

Reviewed By :John
Carlone

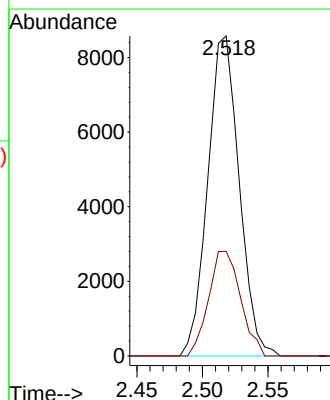
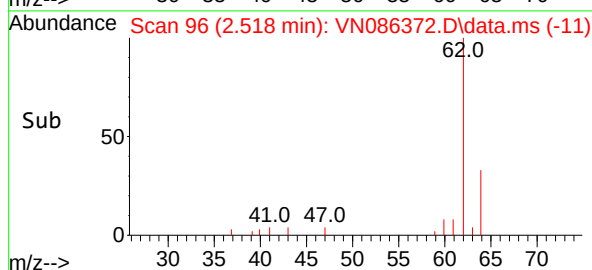
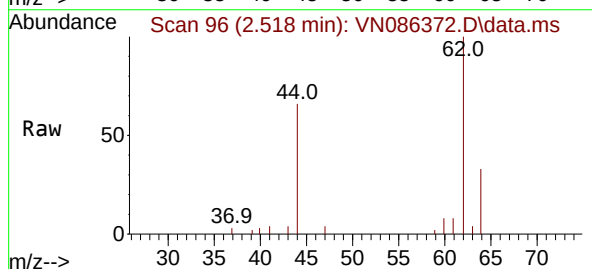
04/24/2025
Supervised By :Mahesh
Dadoda

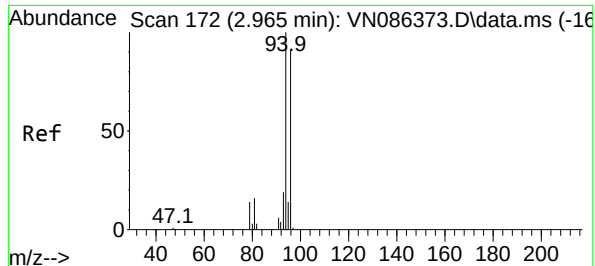
04/25/2025



#4
Vinyl Chloride
Concen: 5.122 ug/l
RT: 2.518 min Scan# 96
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 62 Resp: 14315
Ion Ratio Lower Upper
62 100
64 32.7 25.8 38.8





#5

Bromomethane

Concen: 5.491 ug/l

RT: 2.959 min Scan# 172

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 801

Ion Ratio Lower Upper

94 100

96 89.0 72.4 108.6

Manual Integrations

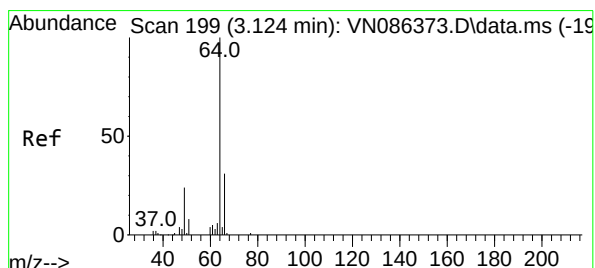
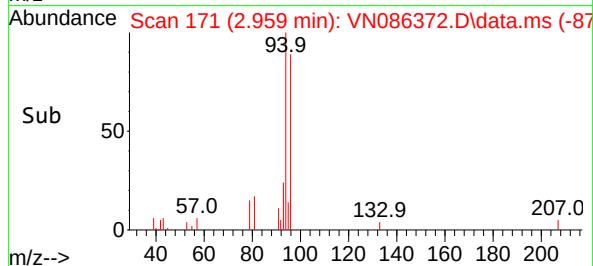
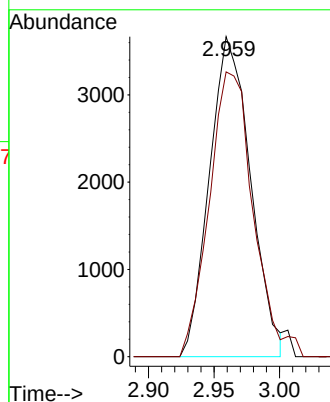
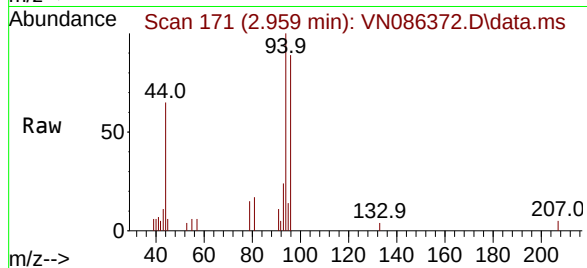
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#6

Chloroethane

Concen: 5.332 ug/l

RT: 3.124 min Scan# 199

Delta R.T. -0.000 min

Lab File: VN086372.D

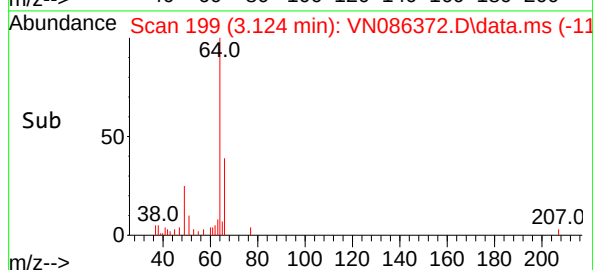
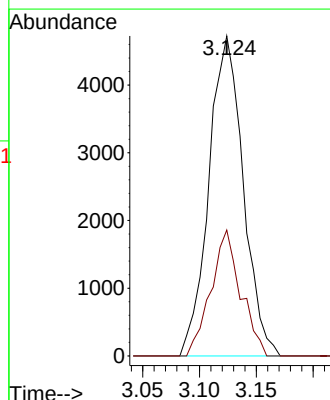
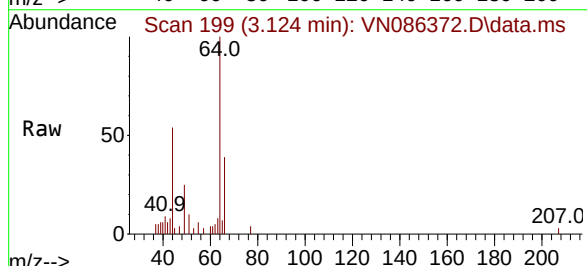
Acq: 23 Apr 2025 09:22

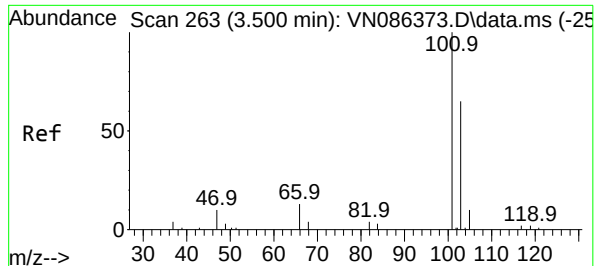
Tgt Ion: 64 Resp: 9935

Ion Ratio Lower Upper

64 100

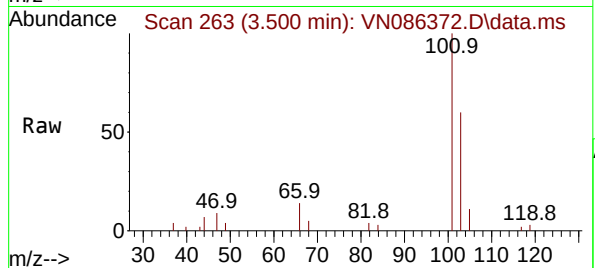
66 39.4 24.5 36.7#





#7
Trichlorofluoromethane
Concen: 5.129 ug/l
RT: 3.500 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



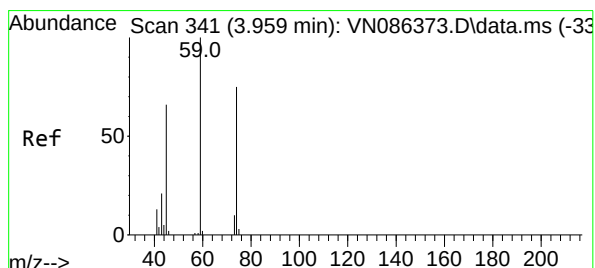
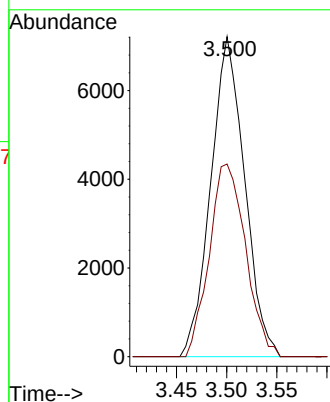
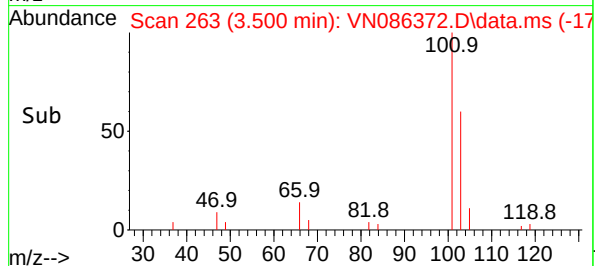
Tgt Ion:101 Resp: 1692
Ion Ratio Lower Upper
101 100
103 60.2 51.8 77.6

Manual Integrations
APPROVED

Reviewed By :John
Carlone

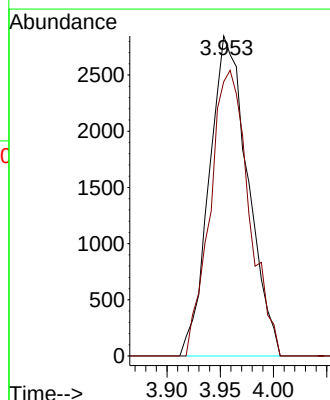
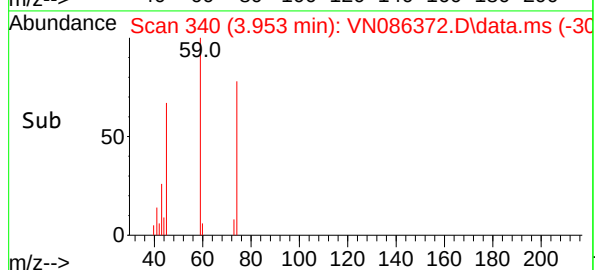
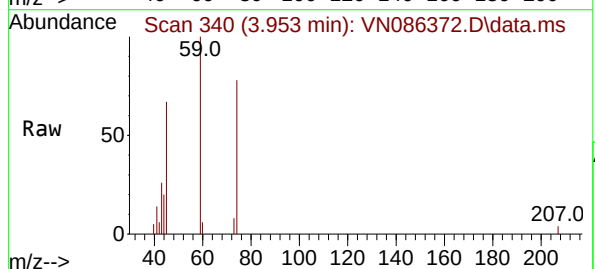
04/24/2025
Supervised By :Mahesh
Dadoda

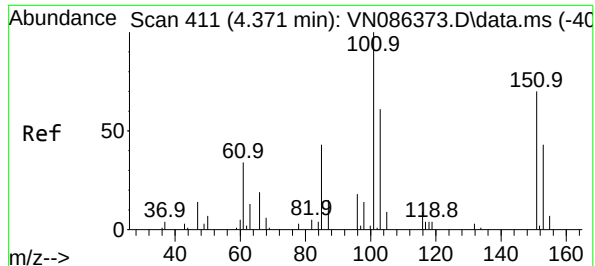
04/25/2025



#8
Diethyl Ether
Concen: 5.162 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 74 Resp: 7189
Ion Ratio Lower Upper
74 100
45 89.6 18.5 166.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.005 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

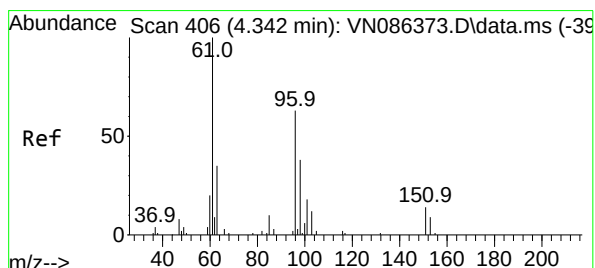
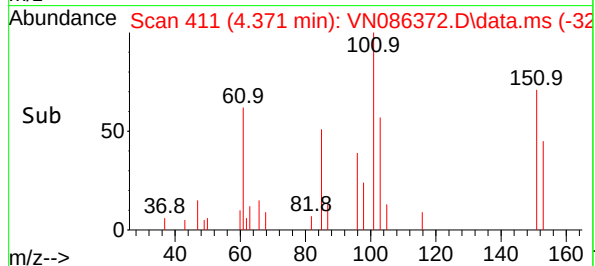
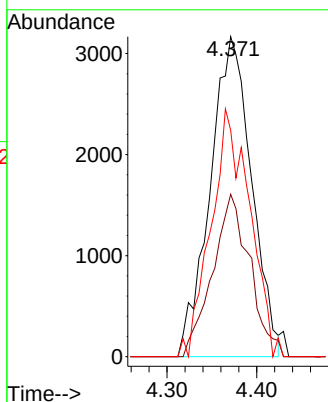
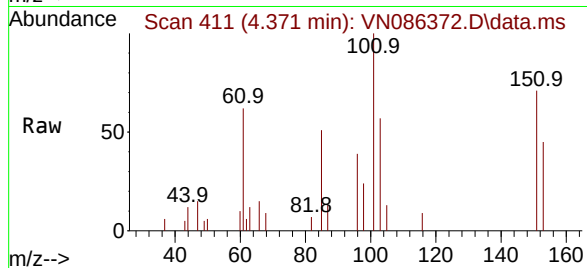
Tgt Ion:101 Resp: 10150
Ion Ratio Lower Upper
101 100
85 45.6 0.0 84.4
151 45.4 0.0 145.8

Manual Integrations
APPROVED

Reviewed By :John
Carlone

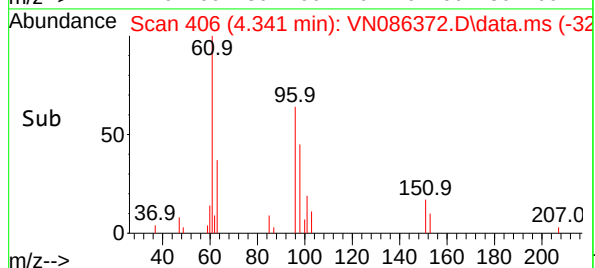
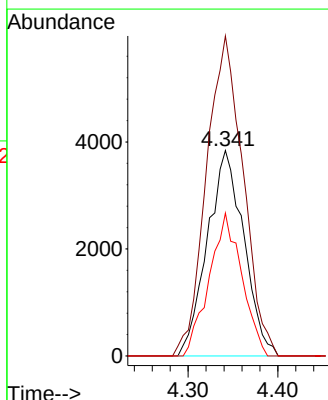
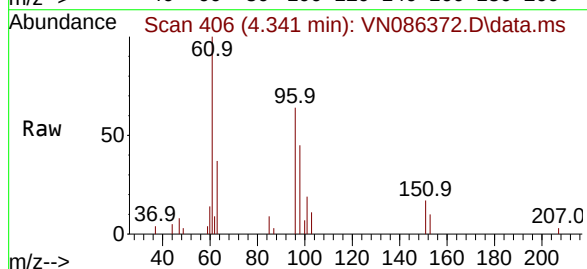
04/24/2025
Supervised By :Mahesh
Dadoda

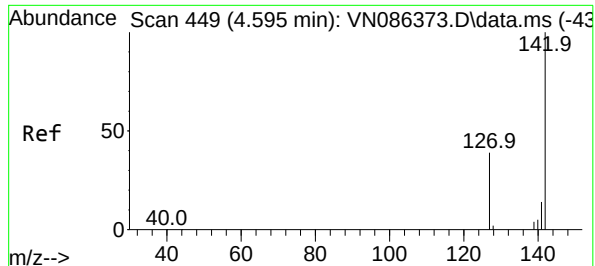
04/25/2025



#10
1,1-Dichloroethene
Concen: 5.224 ug/l
RT: 4.341 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 96 Resp: 10844
Ion Ratio Lower Upper
96 100
61 155.7 126.2 189.4
98 69.5 48.5 72.7





#11

Methyl Iodide

Concen: 4.834 ug/l

RT: 4.589 min Scan# 449

Delta R.T. -0.006 min

Lab File: VN086372.D

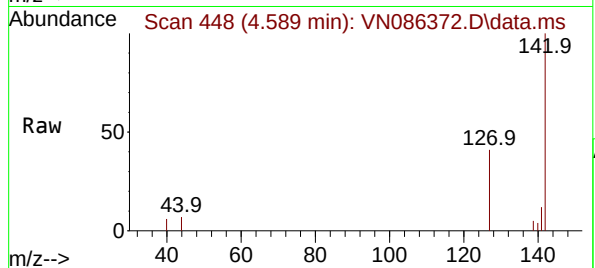
Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion:142 Resp: 1174

Ion Ratio Lower Upper

142 100

127 38.8 19.3 57.9

141 12.2 7.1 21.3

Manual Integrations

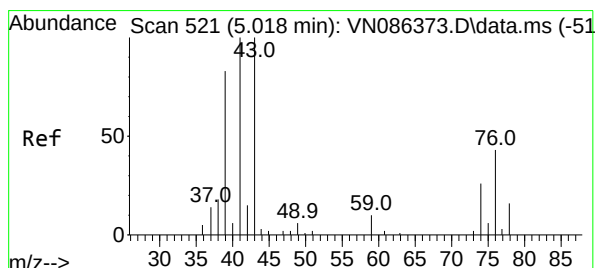
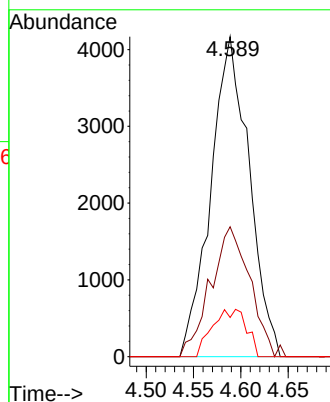
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#12

Methyl Acetate

Concen: 4.592 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086372.D

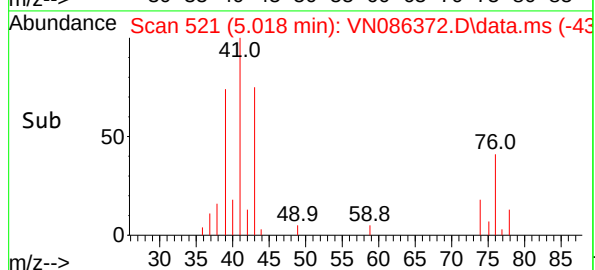
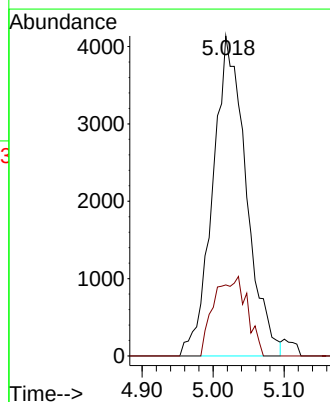
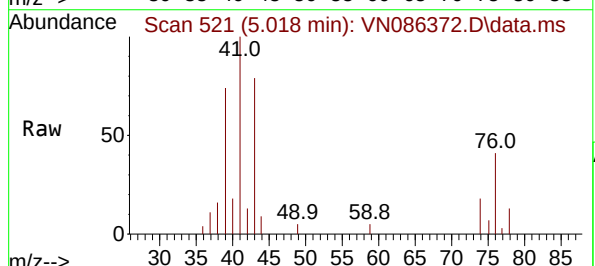
Acq: 23 Apr 2025 09:22

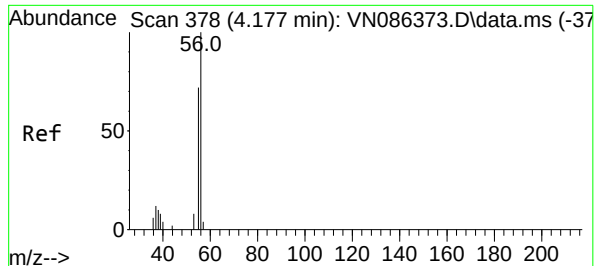
Tgt Ion: 43 Resp: 13511

Ion Ratio Lower Upper

43 100

74 22.7 20.8 31.2





#13

Acrolein

Concen: 28.215 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 6900

Ion Ratio Lower Upper

56 100

55 58.7 56.1 84.1

Manual Integrations

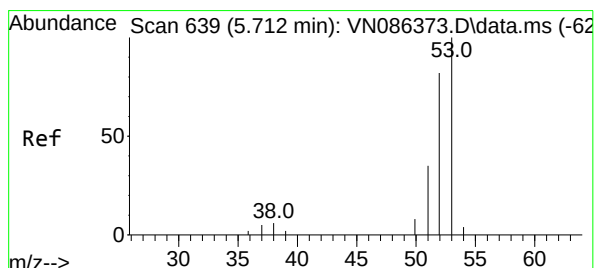
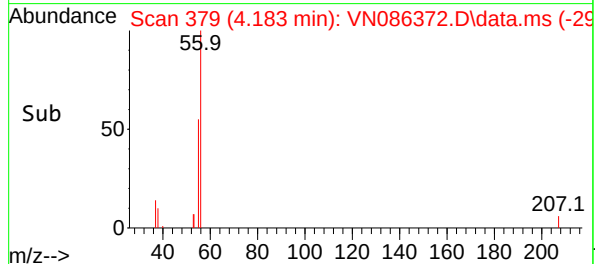
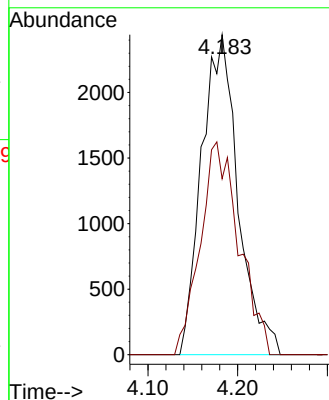
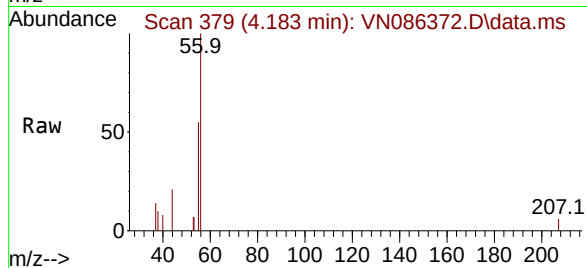
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#14

Acrylonitrile

Concen: 24.377 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

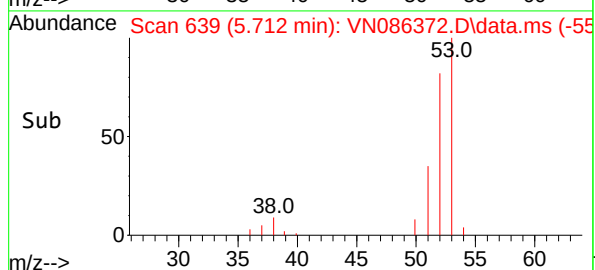
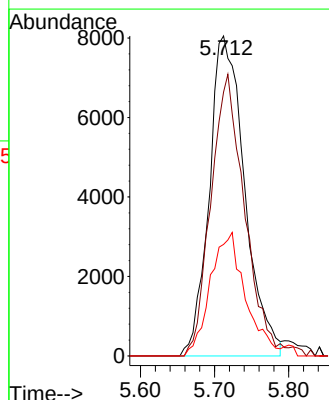
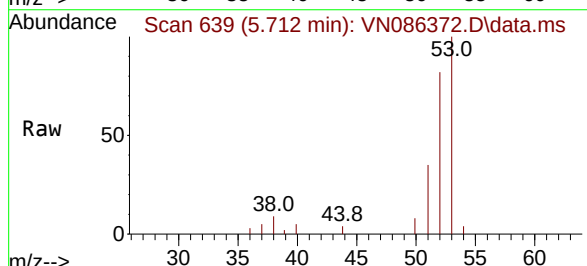
Tgt Ion: 53 Resp: 26695

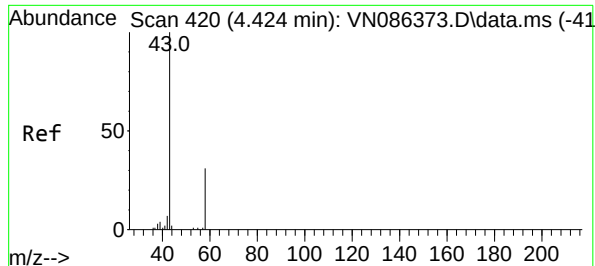
Ion Ratio Lower Upper

53 100

52 83.0 41.2 123.6

51 38.3 17.6 52.8





#15

Acetone

Concen: 26.429 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion: 58 Resp: 797

Ion Ratio Lower Upper

58 100

43 275.9 255.1 382.7

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Manual Integrations

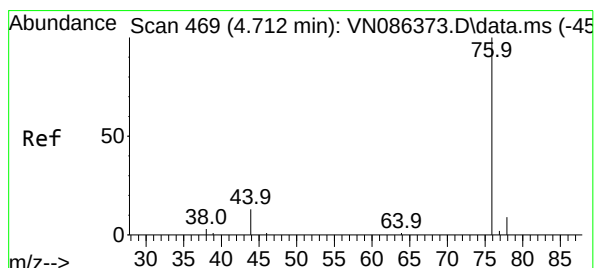
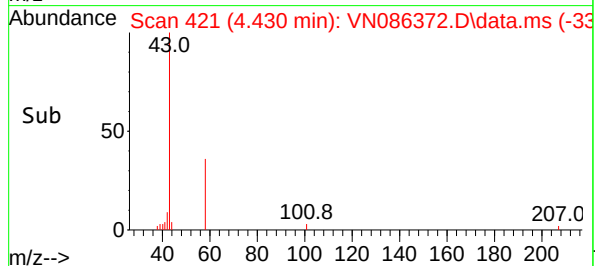
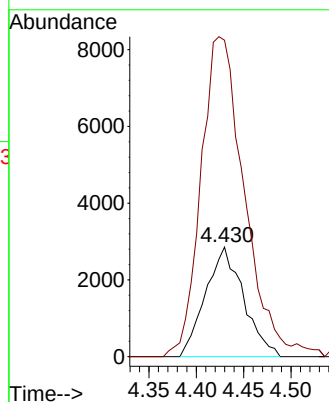
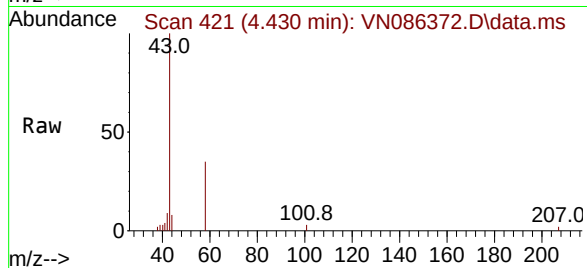
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#16

Carbon Disulfide

Concen: 5.670 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086372.D

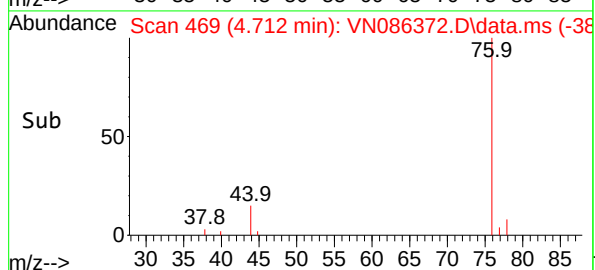
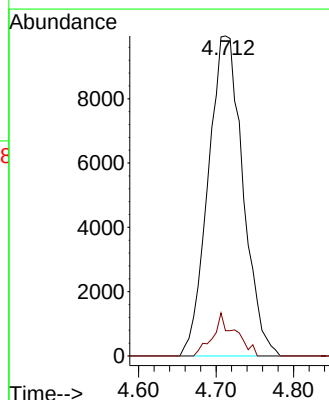
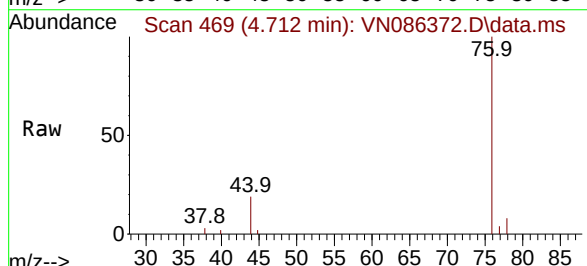
Acq: 23 Apr 2025 09:22

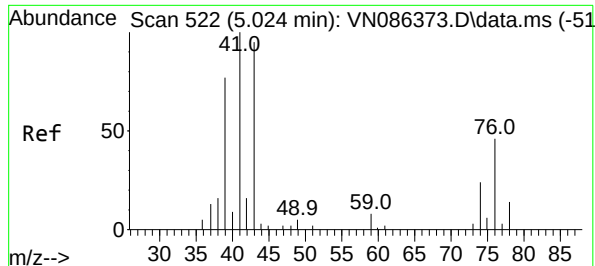
Tgt Ion: 76 Resp: 31017

Ion Ratio Lower Upper

76 100

78 7.9 7.1 10.7





#17

Allyl chloride

Concen: 5.328 ug/l m

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 1768

Ion Ratio Lower Upper

41 100

39 73.7 36.7 110.1

76 41.3 21.8 65.4

Manual Integrations

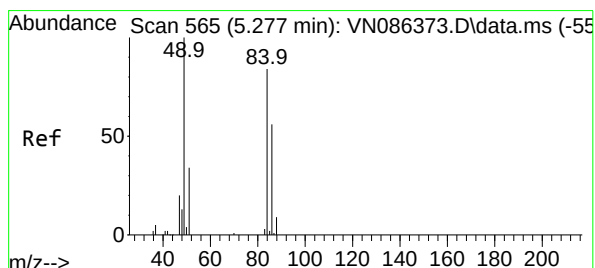
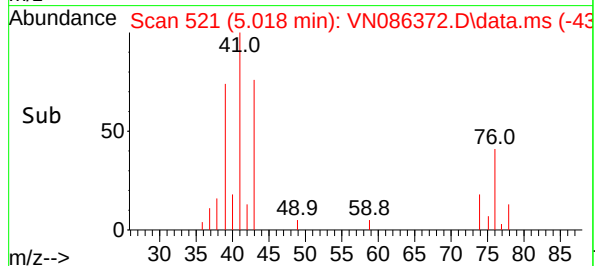
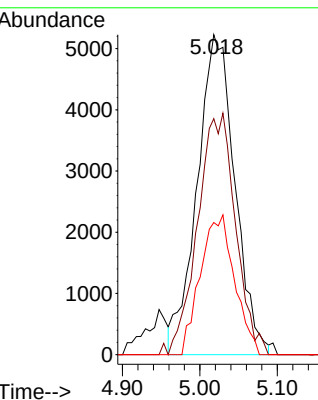
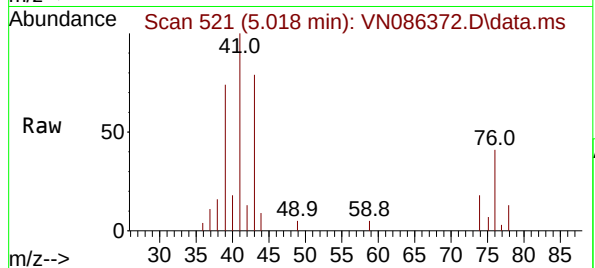
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#18

Methylene Chloride

Concen: 5.236 ug/l m

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion: 84 Resp: 12377

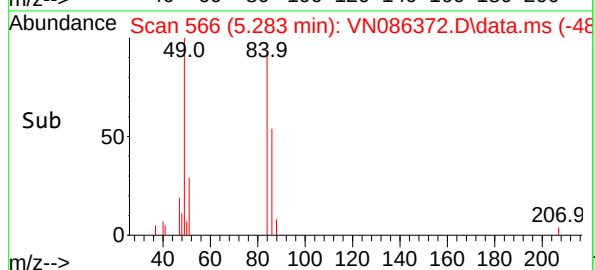
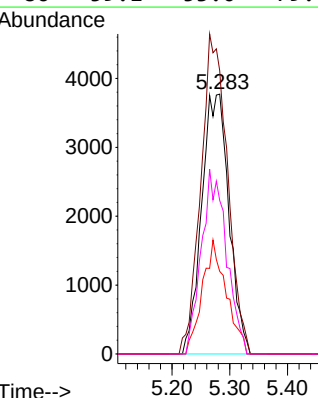
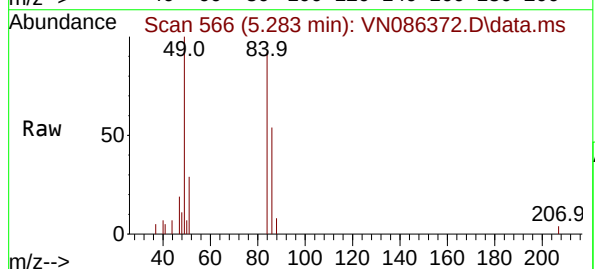
Ion Ratio Lower Upper

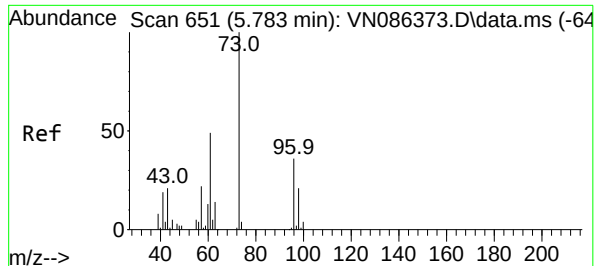
84 100

49 109.0 95.4 143.0

51 31.8 32.8 49.2#

86 59.1 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 5.285 ug/l m

RT: 5.788 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 11694

Ion Ratio Lower Upper

96 100

61 126.3 107.3 160.9

98 62.1 46.7 70.1

Manual Integrations

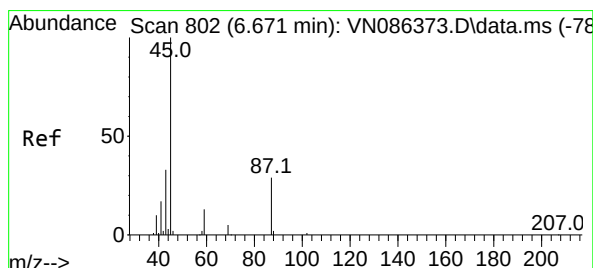
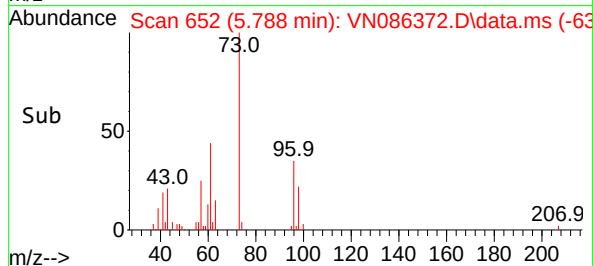
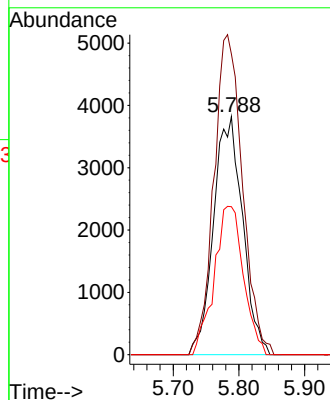
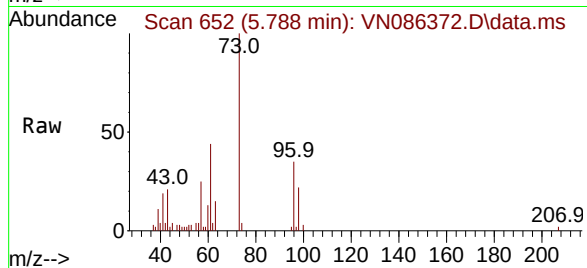
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#20

Diisopropyl ether

Concen: 4.950 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion: 45 Resp: 39066

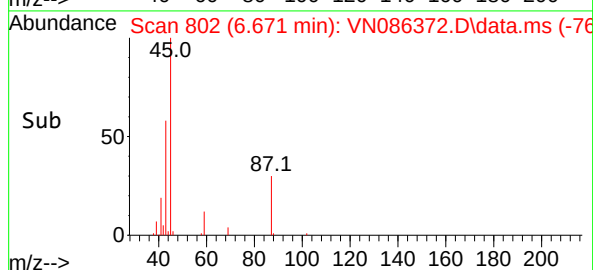
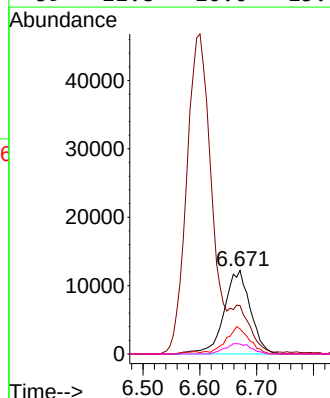
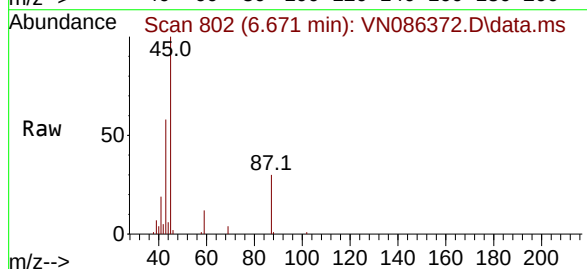
Ion Ratio Lower Upper

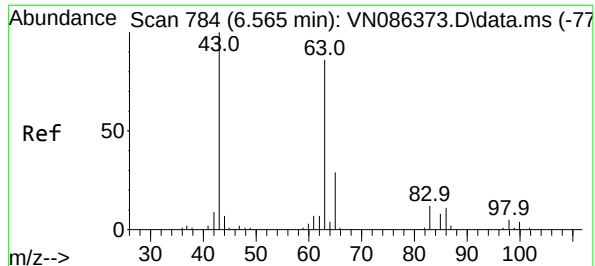
45 100

43 55.5 38.8 58.2

87 29.8 23.5 35.3

59 11.8 10.0 15.0





#21

1,1-Dichloroethane

Concen: 5.143 ug/l

RT: 6.559 min Scan# 7

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 22218

Ion Ratio Lower Upper

63 100

98 4.7 3.0 9.2

100 3.2 2.3 6.8

Manual Integrations

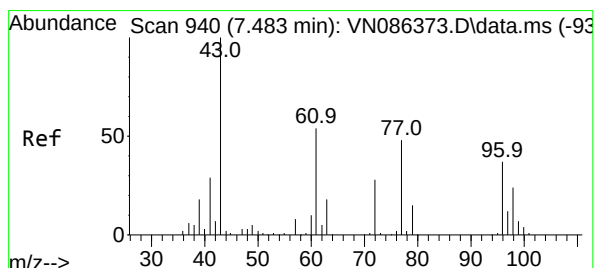
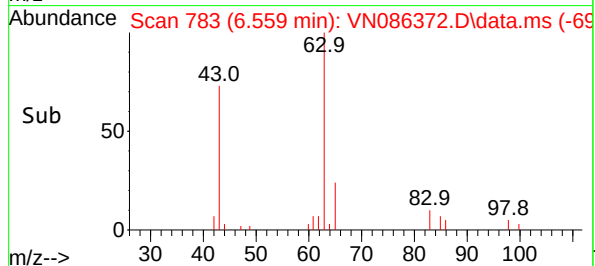
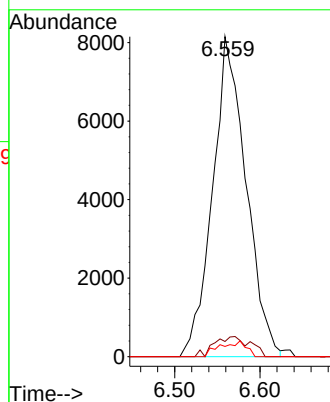
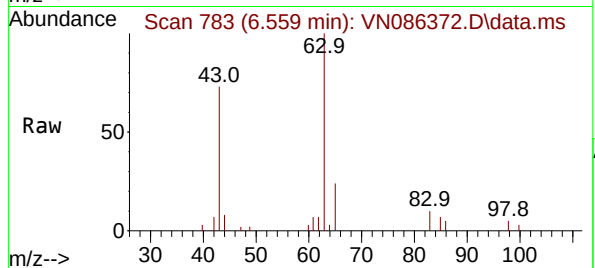
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#22

cis-1,2-Dichloroethene

Concen: 5.176 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

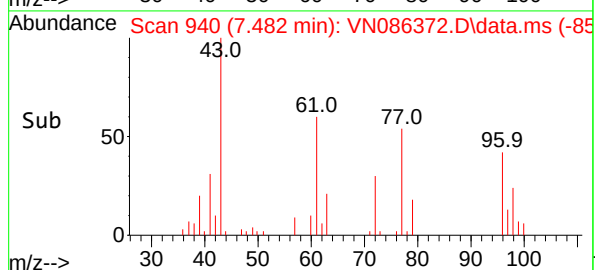
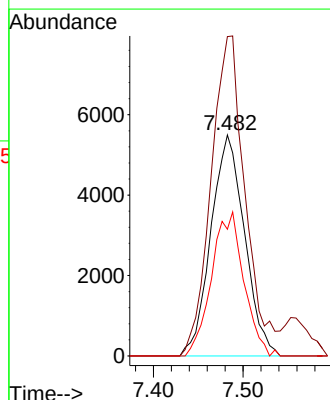
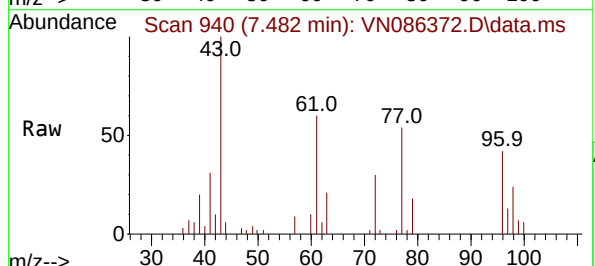
Tgt Ion: 96 Resp: 14319

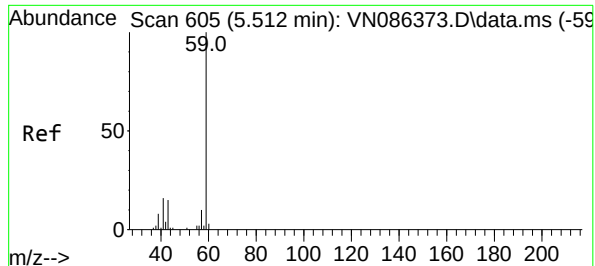
Ion Ratio Lower Upper

96 100

61 146.0 120.6 181.0

98 62.0 51.8 77.6





#23

tert-Butyl Alcohol

Concen: 26.795 ug/l m

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN086372.D

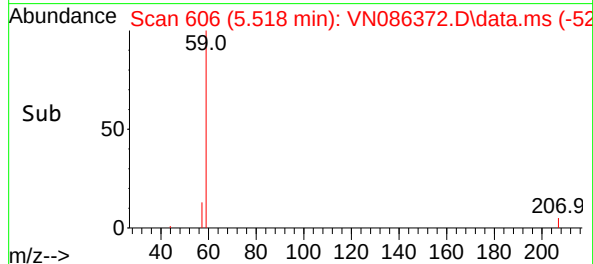
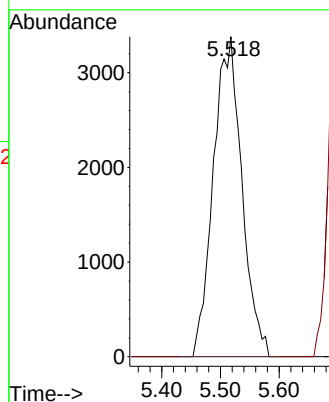
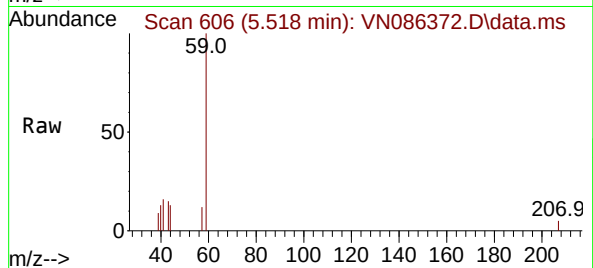
Acq: 23 Apr 2025 09:22

Tgt Ion: 59 Resp: 1136

Ion Ratio Lower Upper

59 100

52 194.8 0.1 0.1



Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Manual Integrations

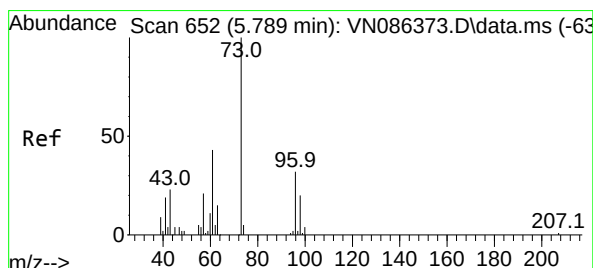
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#24

Methyl tert-Butyl Ether

Concen: 5.048 ug/l

RT: 5.794 min Scan# 653

Delta R.T. 0.006 min

Lab File: VN086372.D

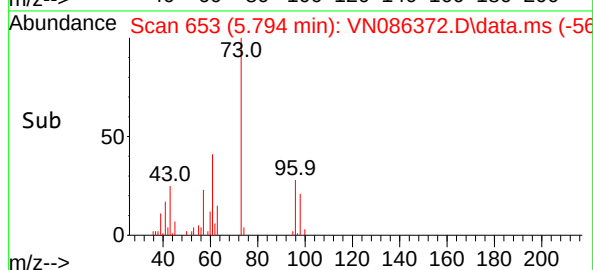
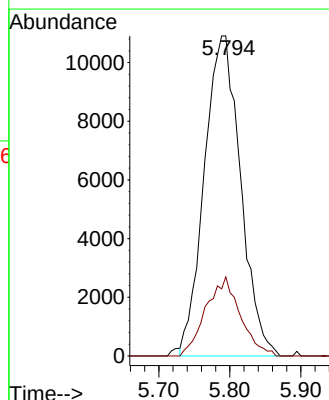
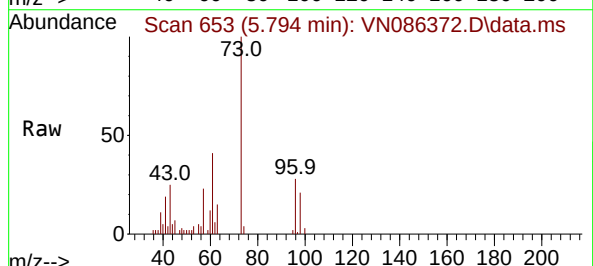
Acq: 23 Apr 2025 09:22

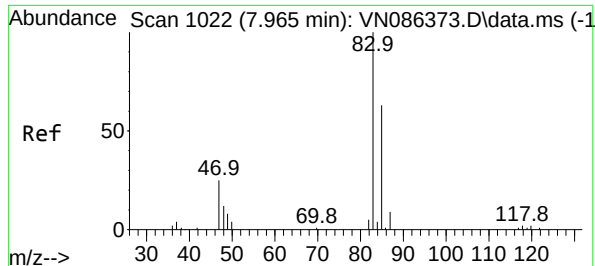
Tgt Ion: 73 Resp: 38714

Ion Ratio Lower Upper

73 100

43 23.4 17.1 25.7





#25

Chloroform

Concen: 5.145 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 2249

Ion Ratio Lower Upper

83 100

85 63.2 50.2 75.2

Manual Integrations

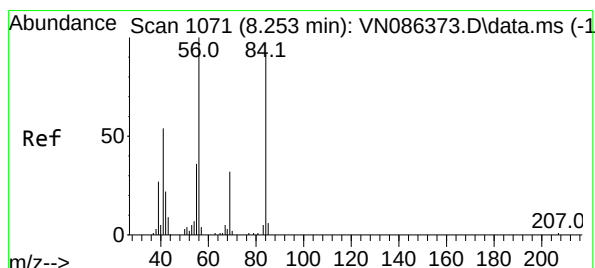
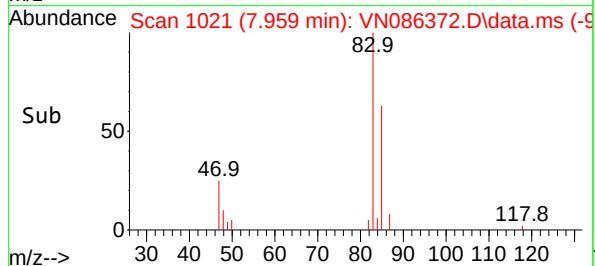
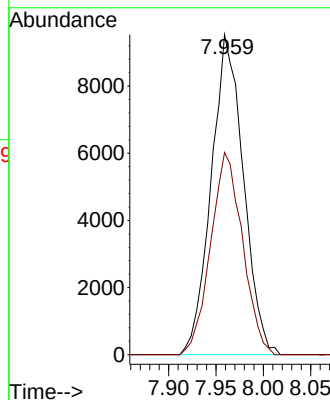
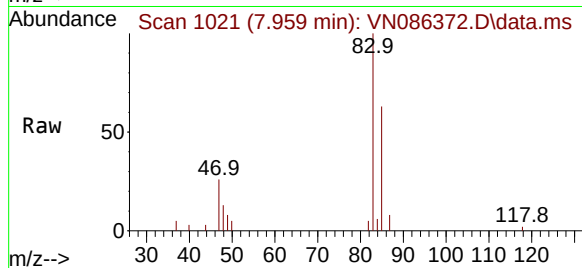
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#26

Cyclohexane

Concen: 5.300 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

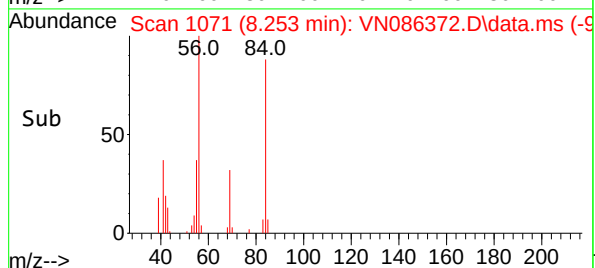
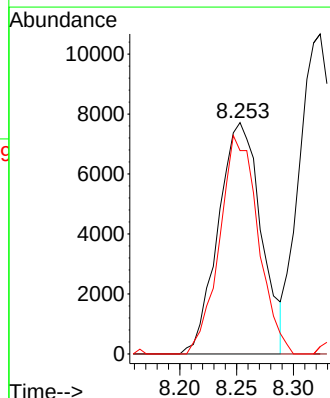
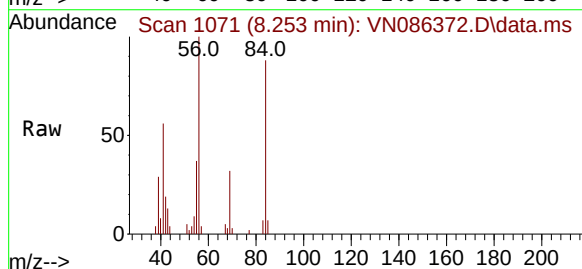
Tgt Ion: 56 Resp: 20215

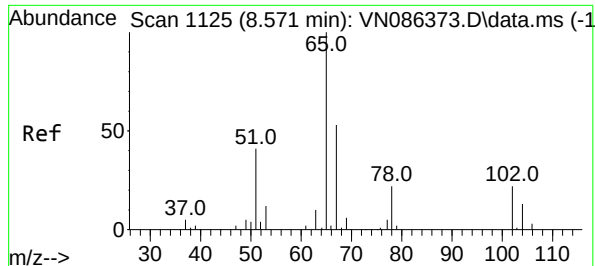
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 84.9 71.5 107.3





#27

1,2-Dichloroethane-d4

Concen: 30.870 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 65 Resp: 88562

Ion Ratio Lower Upper

65 100

67 52.6 42.5 63.7

Manual Integrations

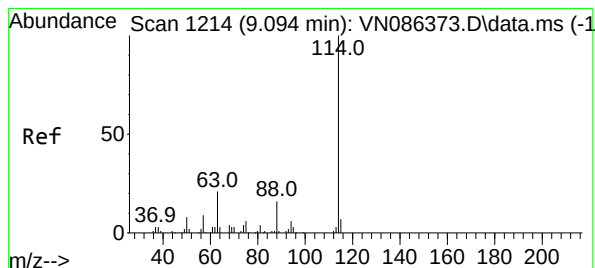
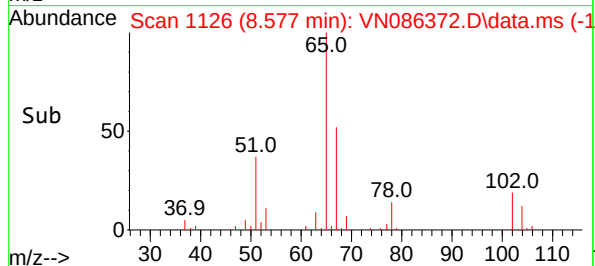
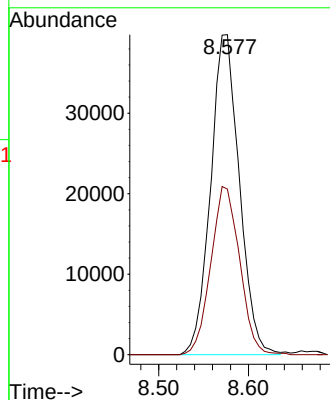
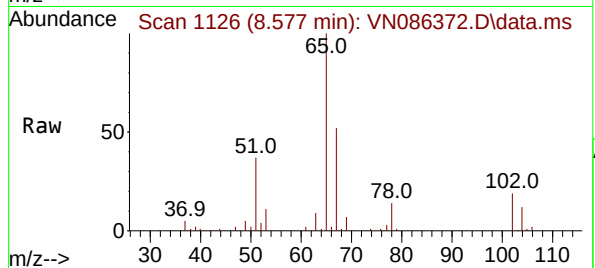
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

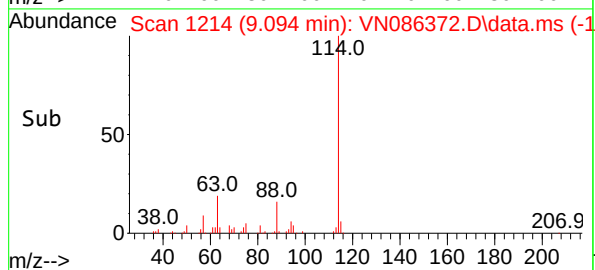
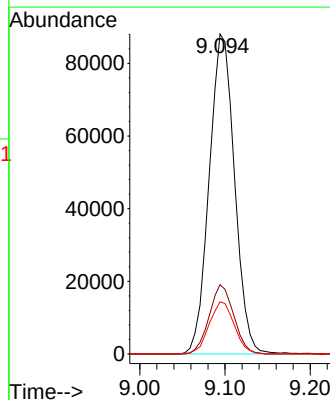
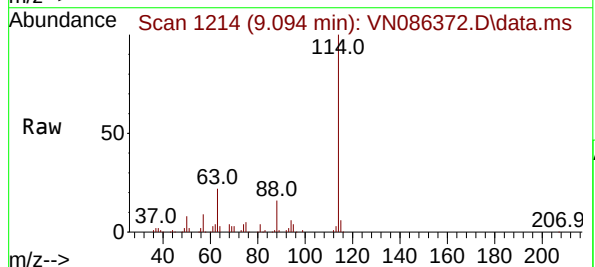
Tgt Ion:114 Resp: 182016

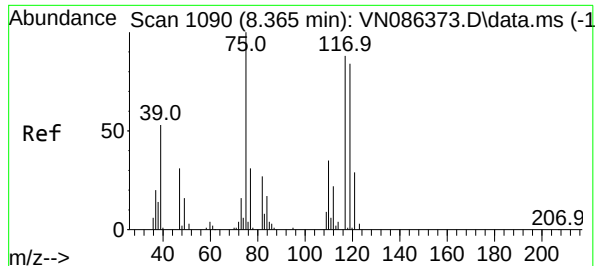
Ion Ratio Lower Upper

114 100

63 21.0 16.7 25.1

88 16.1 12.6 19.0





#29

1,1-Dichloropropene

Concen: 4.916 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

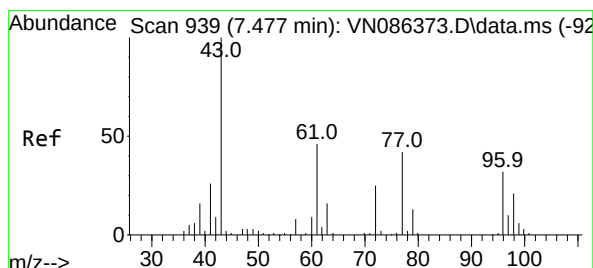
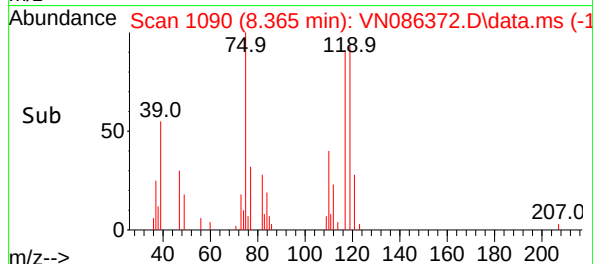
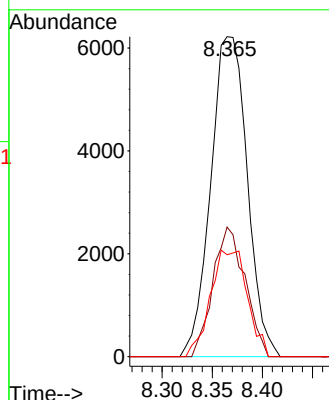
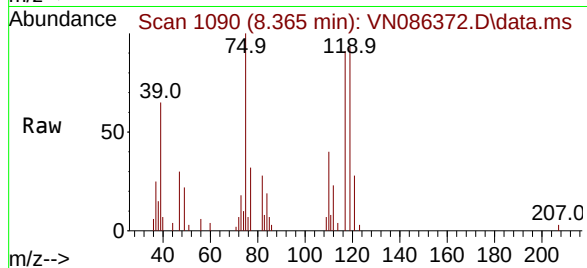
Tgt Ion: 75	Resp: 1577
Ion Ratio	Lower Upper
75 100	
110 35.8	0.0 68.0
77 17.4	0.0 61.4

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#30

2-Butanone

Concen: 24.283 ug/l

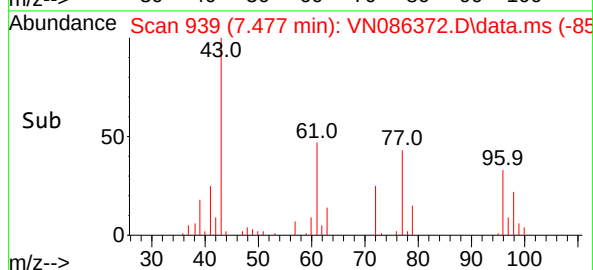
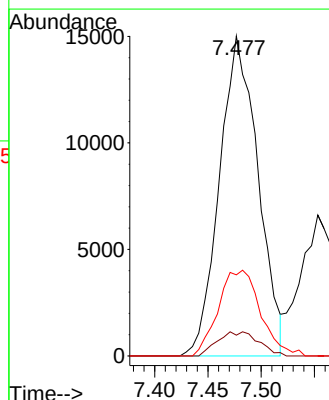
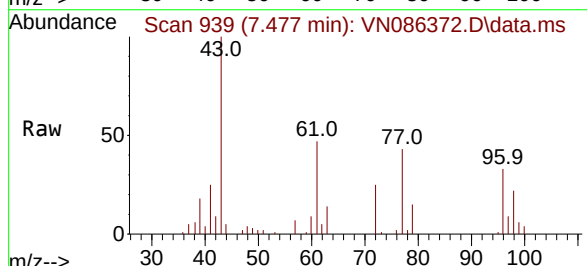
RT: 7.477 min Scan# 939

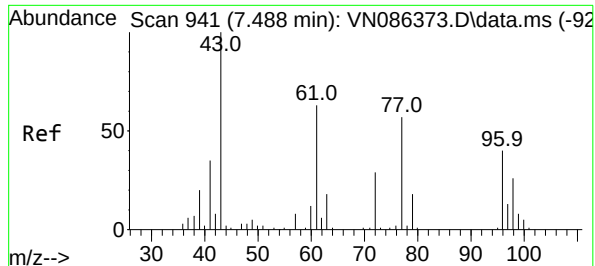
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion: 43	Resp: 37820
Ion Ratio	Lower Upper
43 100	
57 4.1	6.6 10.0#
72 29.3	22.2 33.4





#31
2,2-Dichloropropane
Concen: 5.065 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

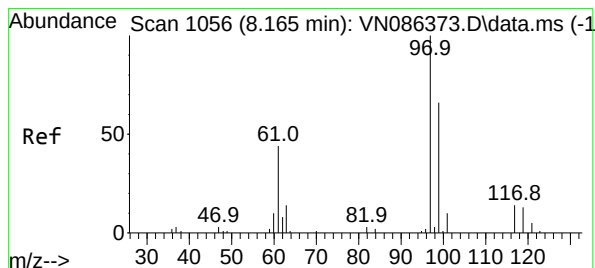
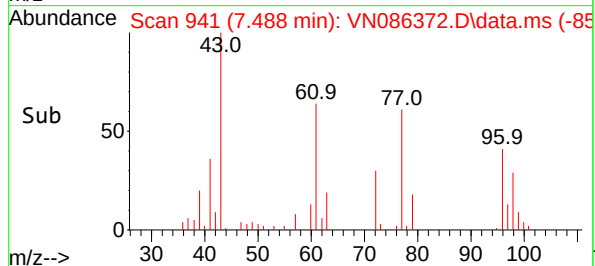
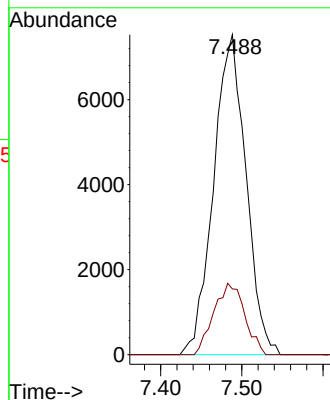
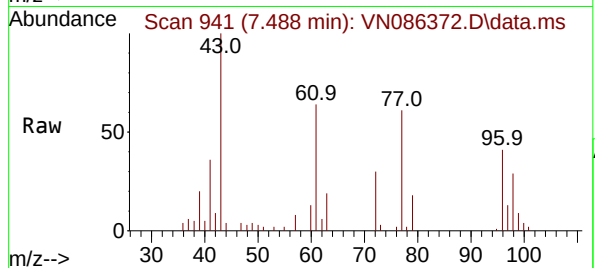
Tgt Ion: 77 Resp: 20892
Ion Ratio Lower Upper
77 100
97 21.2 18.2 27.2

Manual Integrations
APPROVED

Reviewed By :John
Carlone

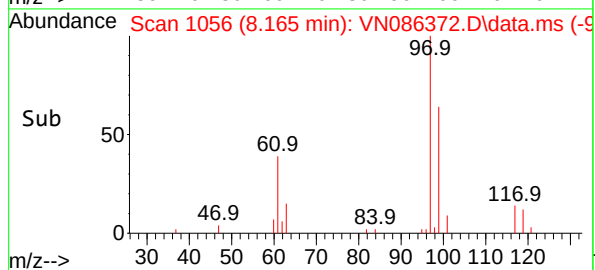
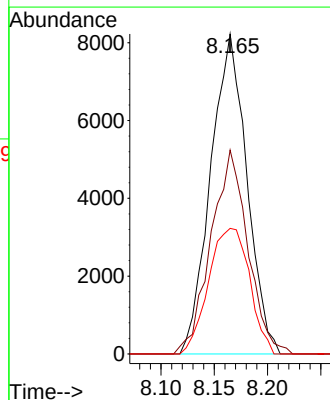
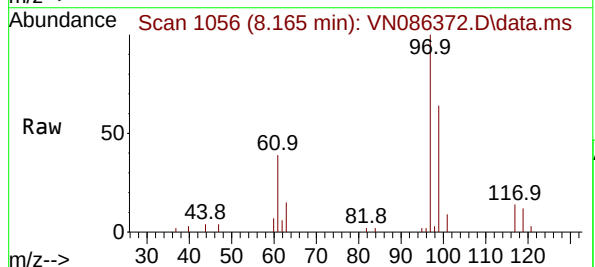
04/24/2025
Supervised By :Mahesh
Dadoda

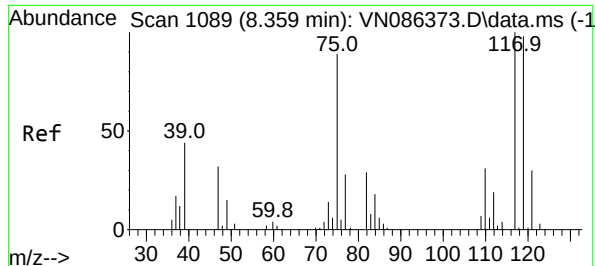
04/25/2025



#32
1,1,1-Trichloroethane
Concen: 5.070 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

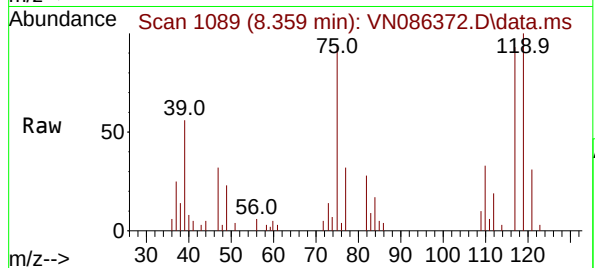
Tgt Ion: 97 Resp: 19441
Ion Ratio Lower Upper
97 100
99 65.0 52.6 79.0
61 44.4 36.4 54.6





#33
Carbon Tetrachloride
Concen: 4.908 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



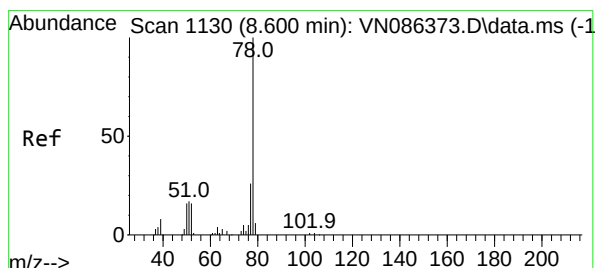
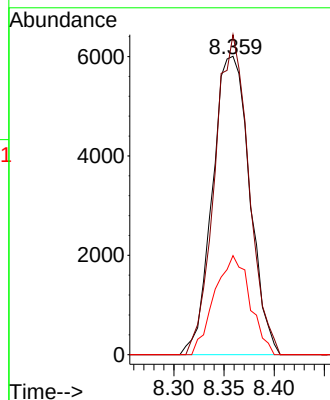
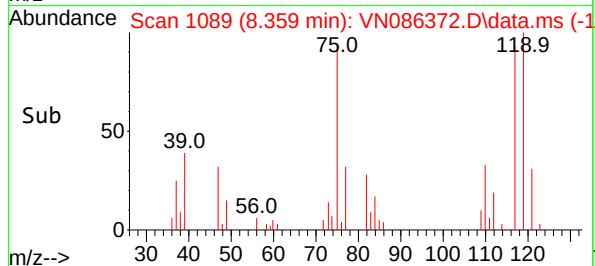
Tgt Ion: 117 Resp: 15492
Ion Ratio Lower Upper
117 100
119 107.2 78.6 117.8
121 33.2 24.0 36.0

Manual Integrations
APPROVED

Reviewed By :John
Carlone

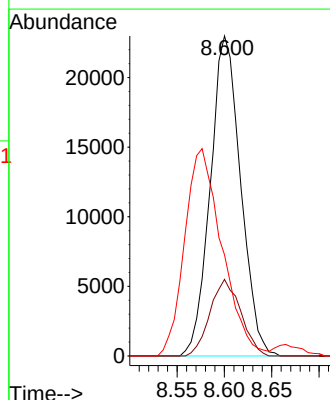
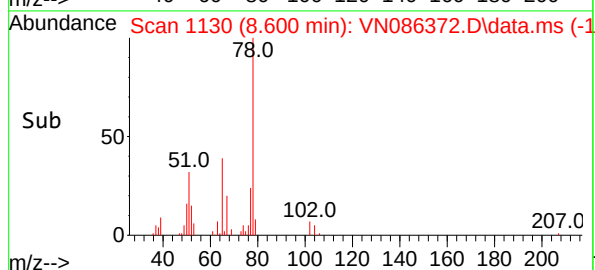
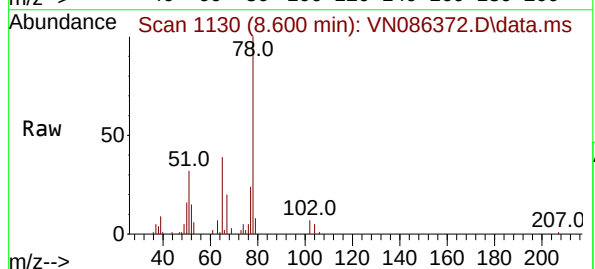
04/24/2025
Supervised By :Mahesh
Dadoda

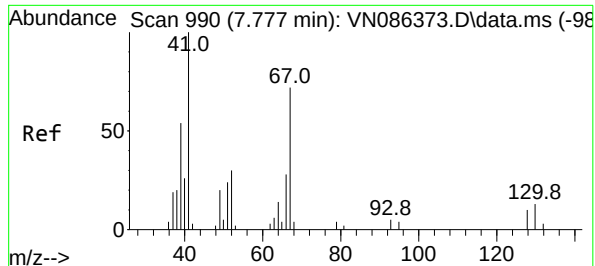
04/25/2025



#34
Benzene
Concen: 5.013 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 78 Resp: 51159
Ion Ratio Lower Upper
78 100
77 23.9 20.8 31.2
51 28.3 14.0 21.0#





#35

Methacrylonitrile

Concen: 4.626 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 8219

Ion Ratio Lower Upper

41 100

39 57.6 27.0 80.8

67 64.0 35.8 107.3

52 39.2 15.2 45.5

Manual Integrations

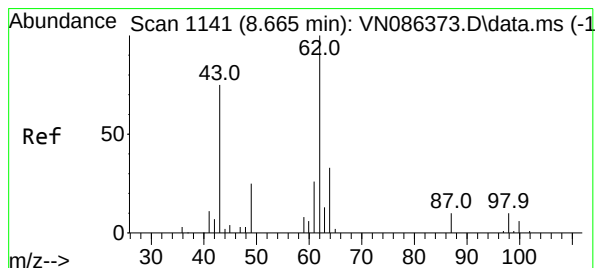
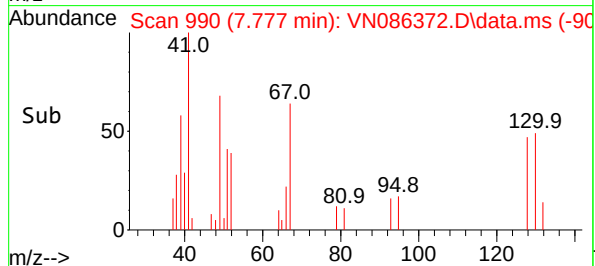
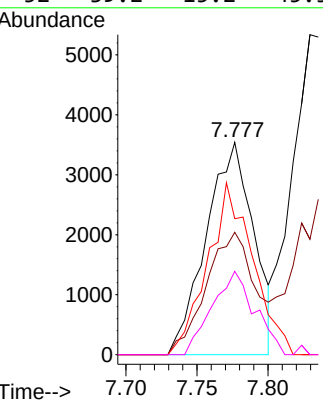
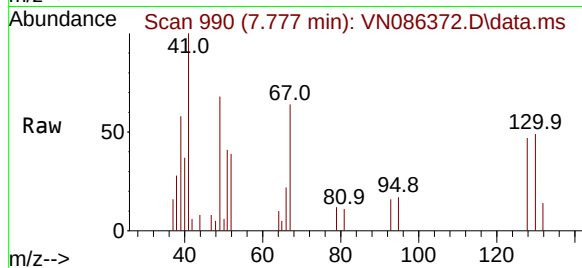
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#36

1,2-Dichloroethane

Concen: 5.000 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086372.D

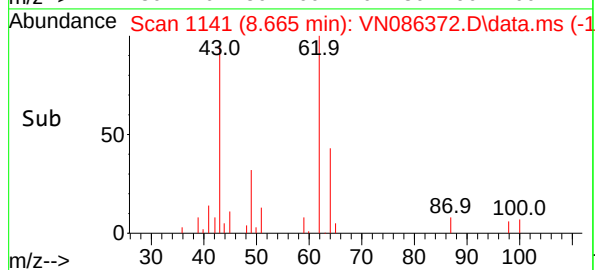
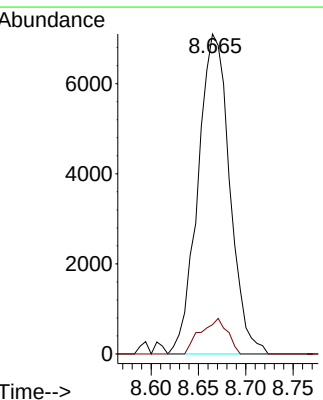
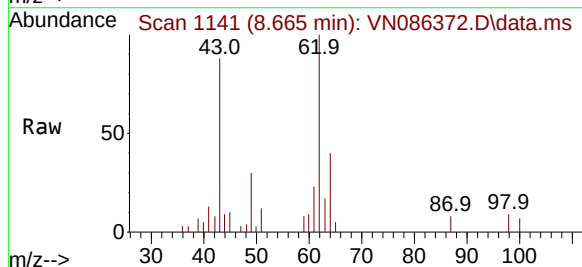
Acq: 23 Apr 2025 09:22

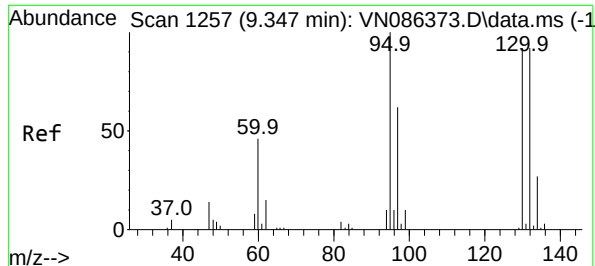
Tgt Ion: 62 Resp: 16569

Ion Ratio Lower Upper

62 100

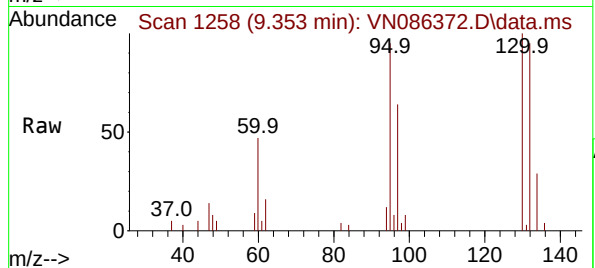
98 9.4 7.6 11.4





#37
Trichloroethene
Concen: 4.867 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



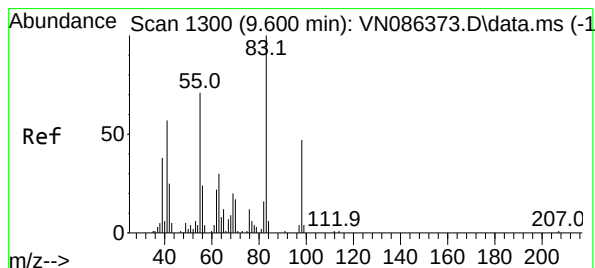
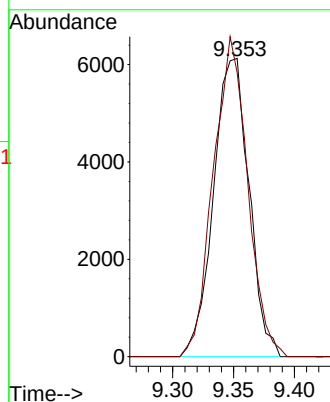
Tgt Ion:130 Resp: 12434
Ion Ratio Lower Upper
130 100
95 95.2 86.6 130.0

Manual Integrations
APPROVED

Reviewed By :John
Carlone

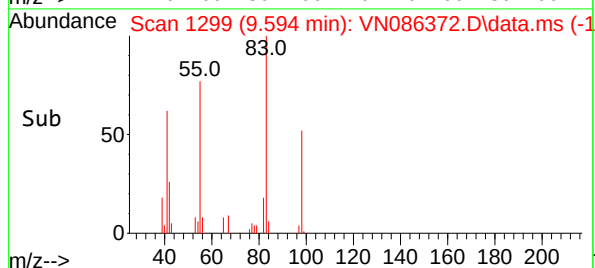
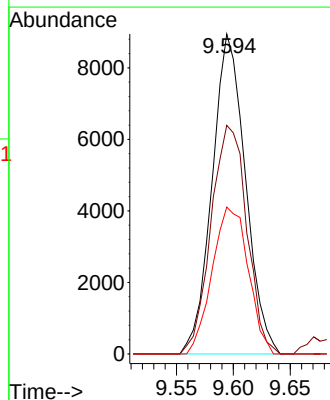
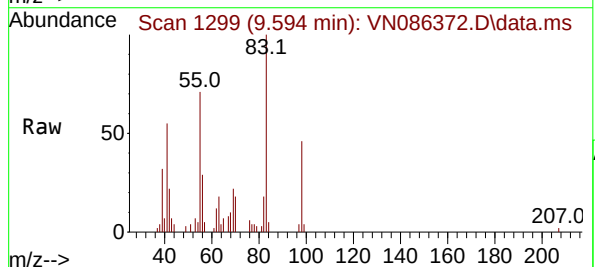
04/24/2025
Supervised By :Mahesh
Dadoda

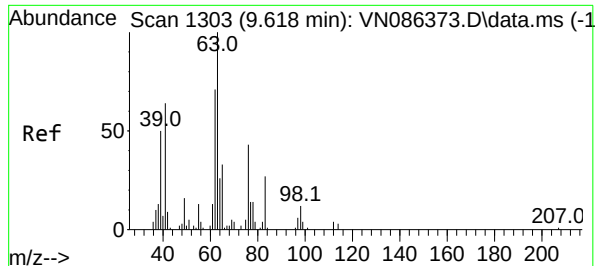
04/25/2025



#38
Methylcyclohexane
Concen: 4.925 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 83 Resp: 18253
Ion Ratio Lower Upper
83 100
55 76.7 37.3 111.9
98 49.6 23.8 71.5





#39

1,2-Dichloropropane

Concen: 5.198 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086372.D

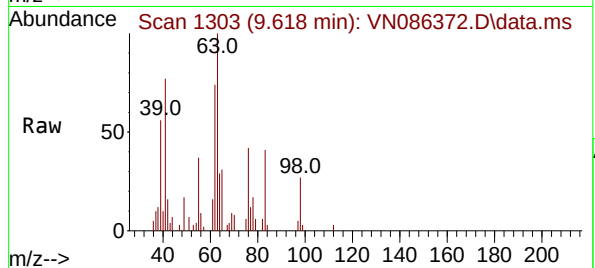
Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 63 Resp: 1310

Ion Ratio Lower Upper

63 100

65 31.3 26.7 40.1

Manual Integrations

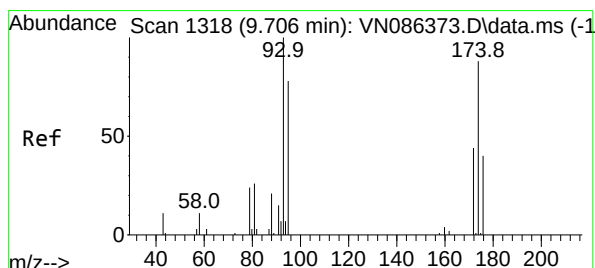
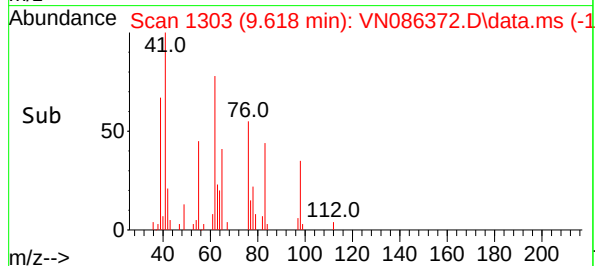
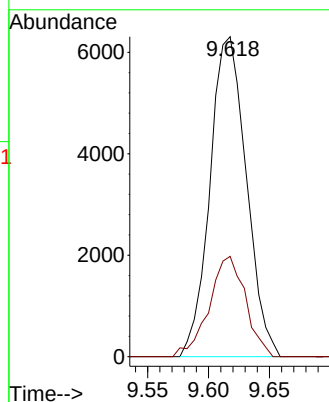
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#40

Dibromomethane

Concen: 5.025 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

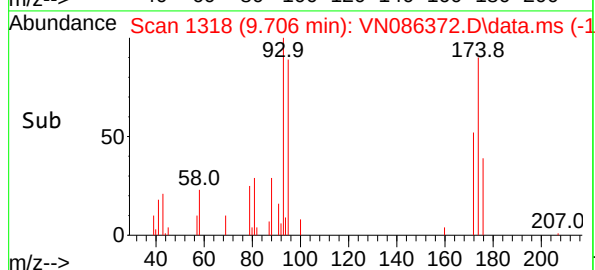
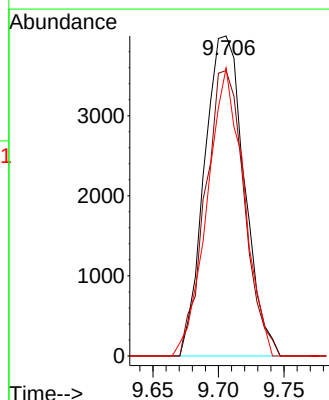
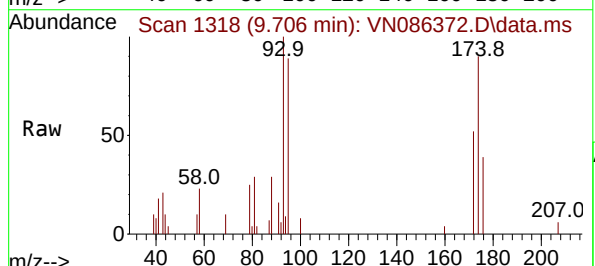
Tgt Ion: 93 Resp: 8472

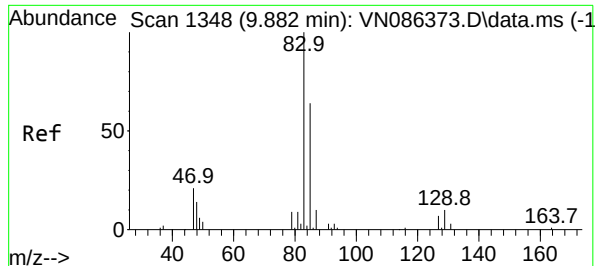
Ion Ratio Lower Upper

93 100

95 86.7 0.0 159.2

174 82.4 0.0 171.4





#41

Bromodichloromethane

Concen: 4.934 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

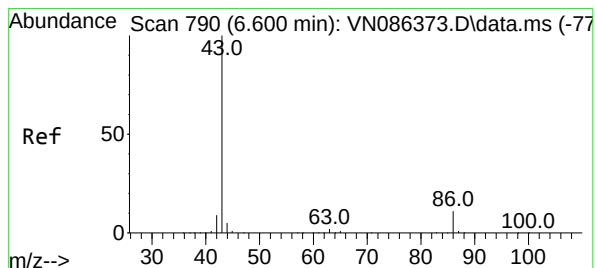
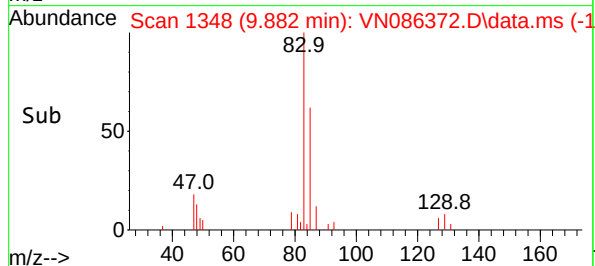
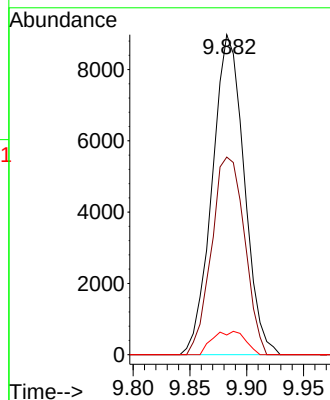
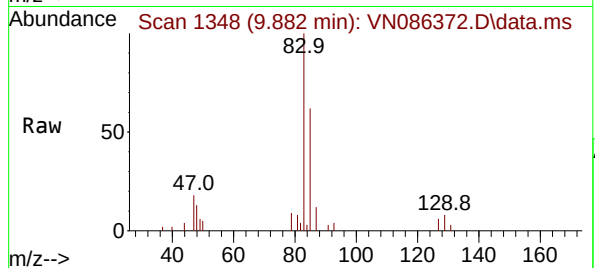
Tgt Ion: 83	Resp: 17604
Ion Ratio	Lower Upper
83 100	
85 61.8	51.1 76.7
127 6.2	5.9 8.9

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#42

Vinyl Acetate

Concen: 26.004 ug/l

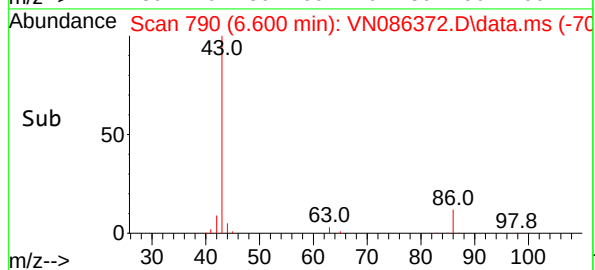
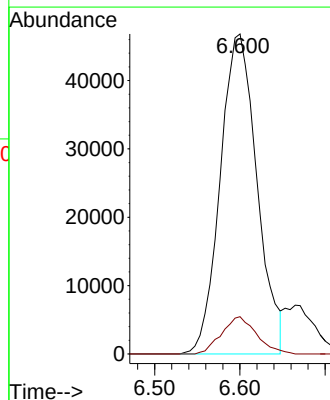
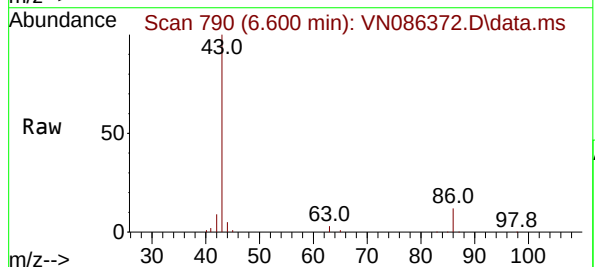
RT: 6.600 min Scan# 790

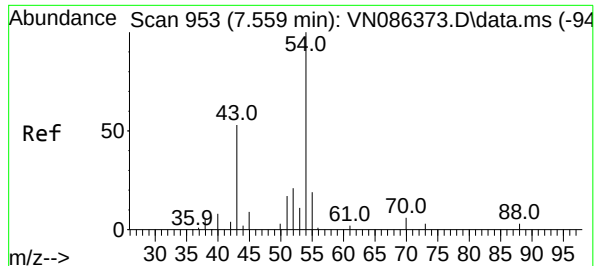
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion: 43	Resp: 140295
Ion Ratio	Lower Upper
43 100	
86 11.1	8.9 13.3





#43

Ethyl Acetate

Concen: 5.600 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 1726

Ion Ratio Lower Upper

43 100

45 13.1 11.4 17.2

Manual Integrations

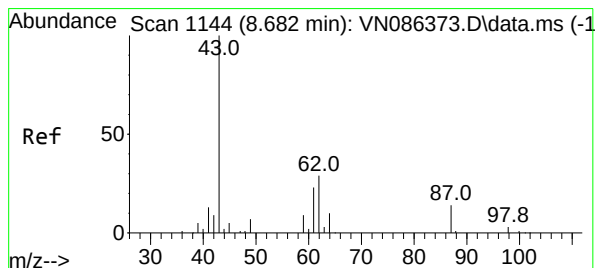
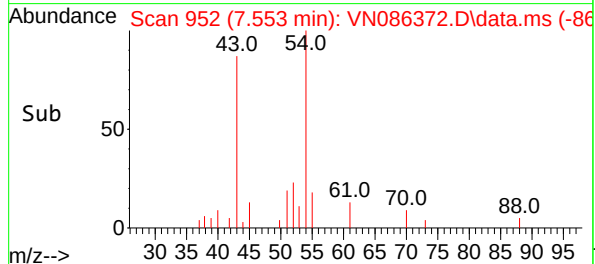
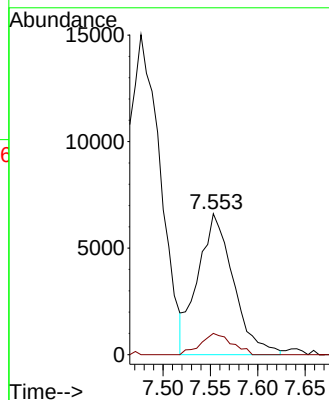
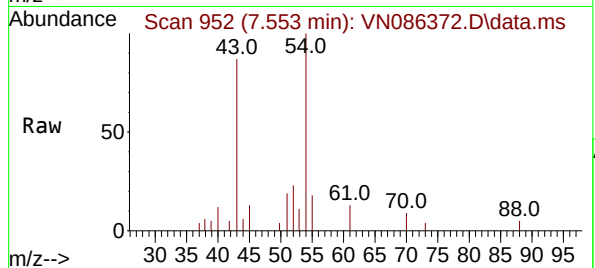
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#44

Isopropyl Acetate

Concen: 5.352 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086372.D

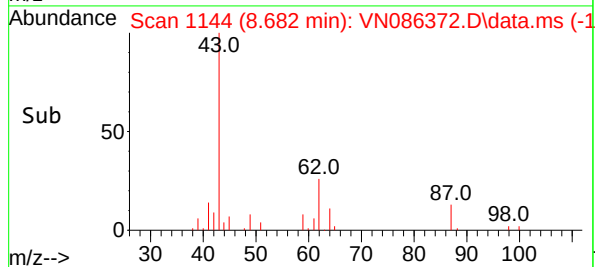
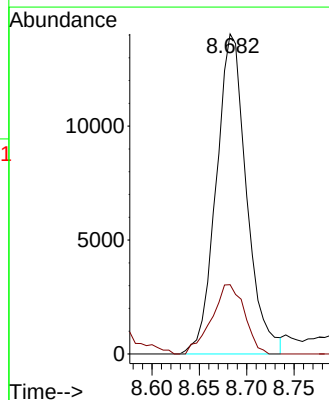
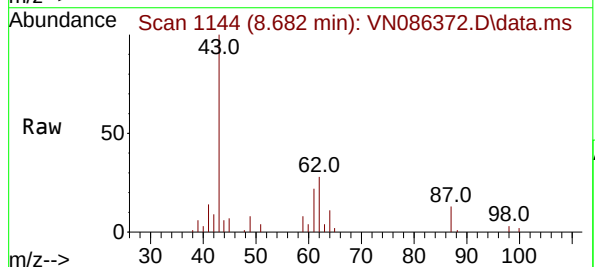
Acq: 23 Apr 2025 09:22

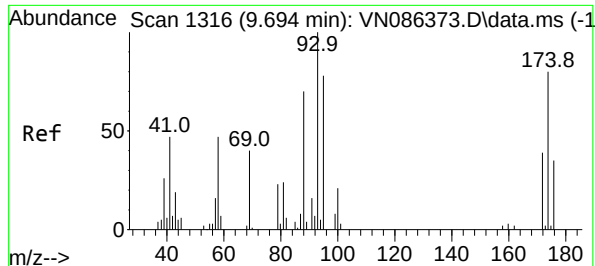
Tgt Ion: 43 Resp: 31305

Ion Ratio Lower Upper

43 100

61 23.4 21.0 31.4





#45

1,4-Dioxane

Concen: 96.252 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 439

Ion Ratio Lower Upper

88 100

43 15.7 24.9 37.3

58 73.5 57.8 86.8

Manual Integrations

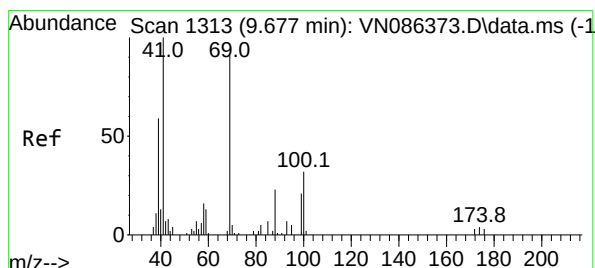
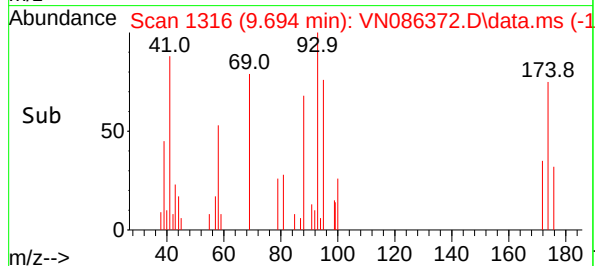
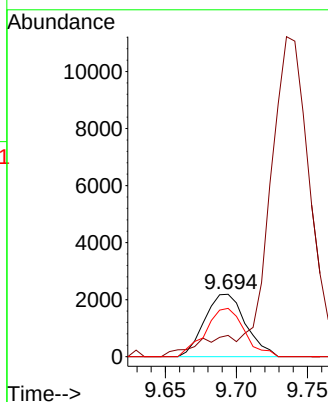
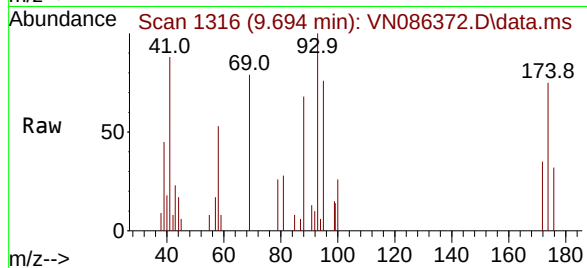
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#46

Methyl methacrylate

Concen: 4.961 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

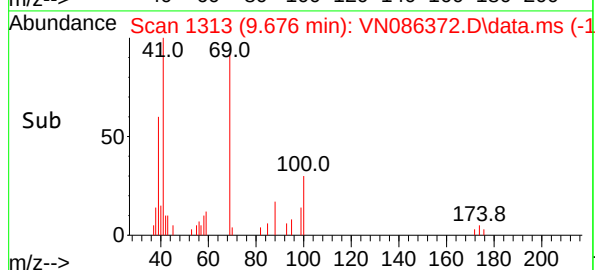
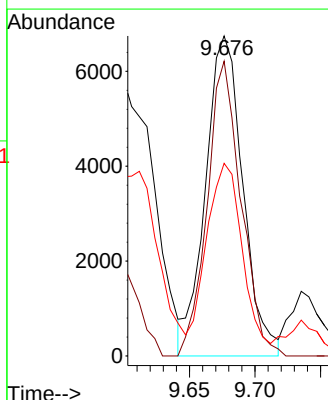
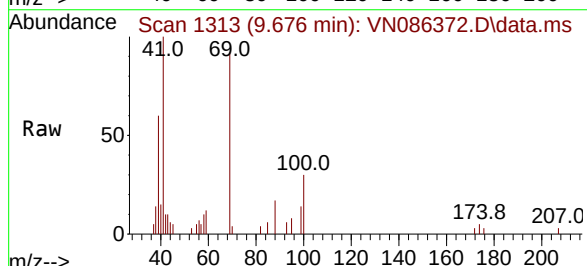
Tgt Ion: 41 Resp: 13386

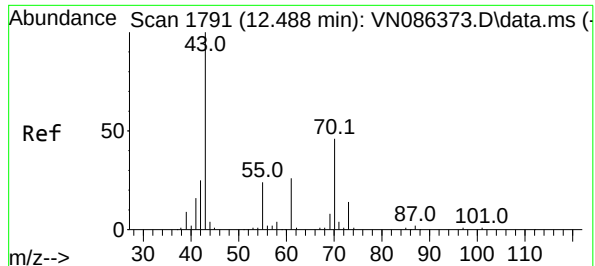
Ion Ratio Lower Upper

41 100

69 97.0 44.1 132.3

39 57.0 30.0 90.1





#47

n-amy1 Acetate

Concen: 4.571 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 2279

Ion Ratio Lower Upper

43

100

55

25.2

19.4

29.0

Manual Integrations

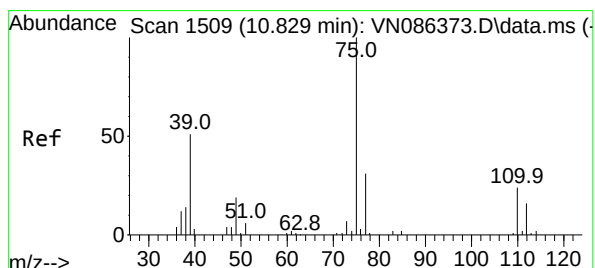
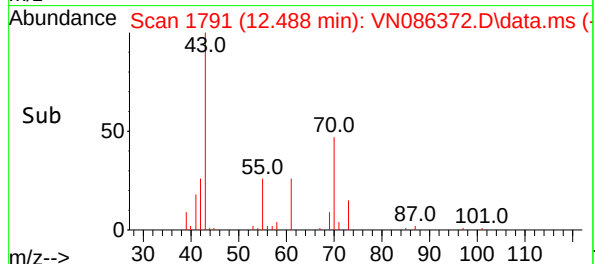
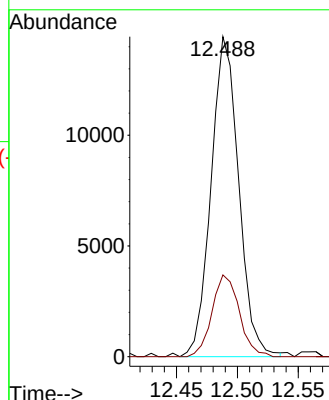
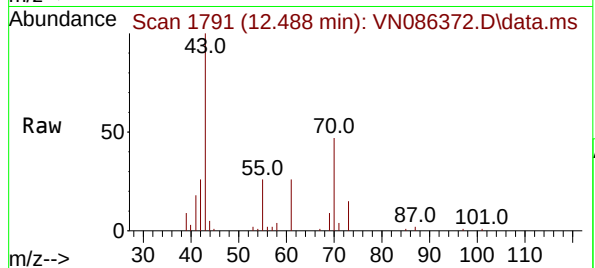
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#48

t-1,3-Dichloropropene

Concen: 4.752 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion: 75 Resp: 18958

Ion Ratio Lower Upper

75

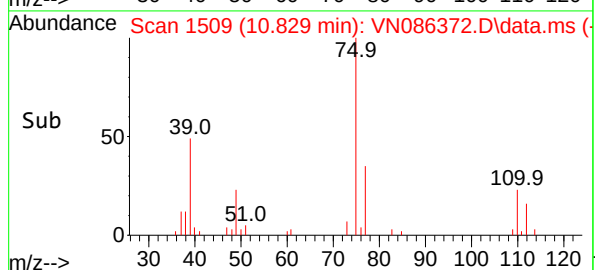
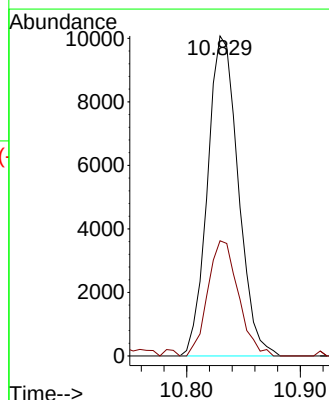
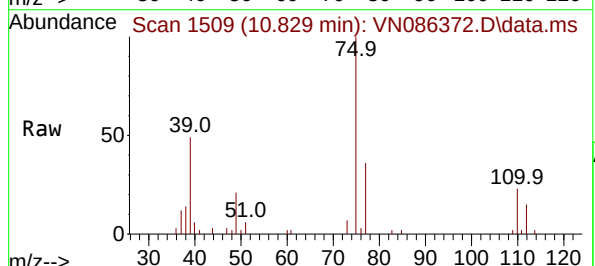
100

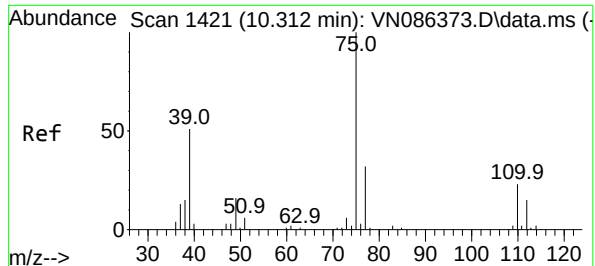
77

36.0

24.4

36.6





#49

cis-1,3-Dichloropropene

Concen: 4.819 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

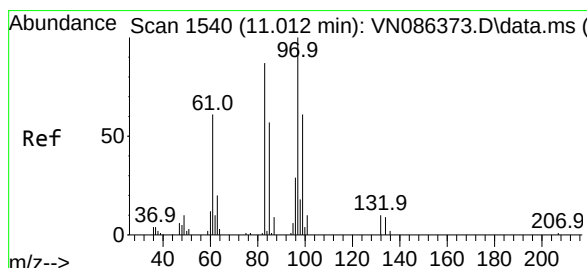
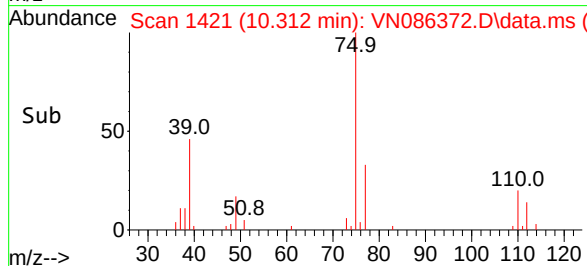
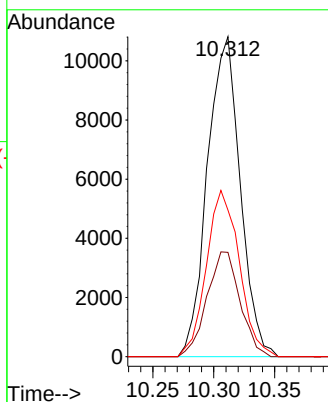
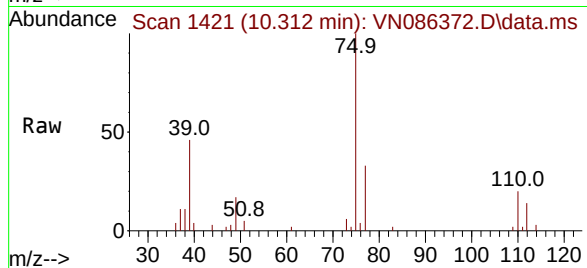
Tgt Ion: 75	Resp: 2027
Ion Ratio	Lower Upper
75 100	
77 32.6	25.6 38.4
39 45.8	40.6 60.8

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#50

1,1,2-Trichloroethane

Concen: 4.837 ug/l

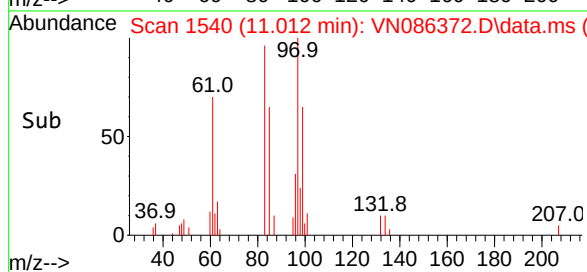
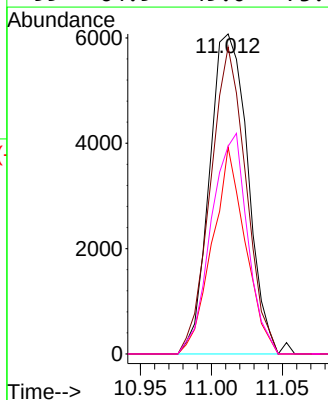
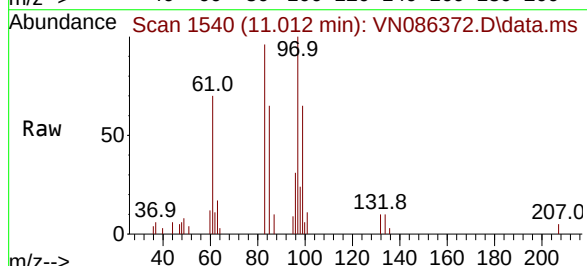
RT: 11.012 min Scan# 1540

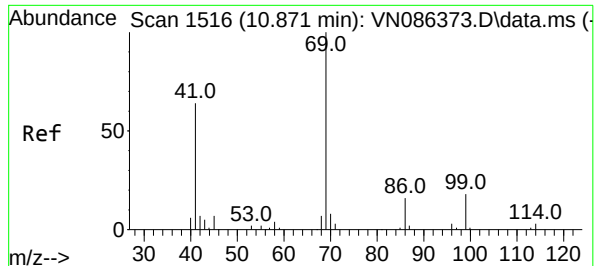
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

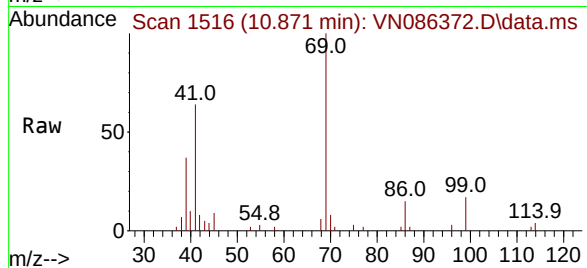
Tgt Ion: 97	Resp: 11391
Ion Ratio	Lower Upper
97 100	
83 95.9	69.3 103.9
85 64.7	45.5 68.3
99 64.9	49.0 73.6





#51
Ethyl methacrylate
Concen: 4.663 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



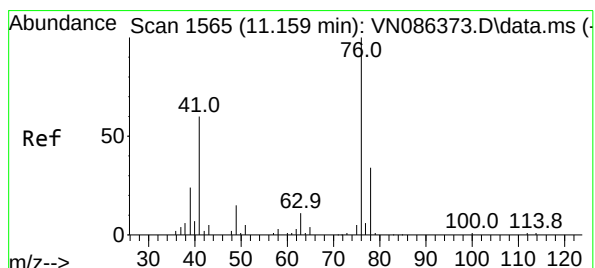
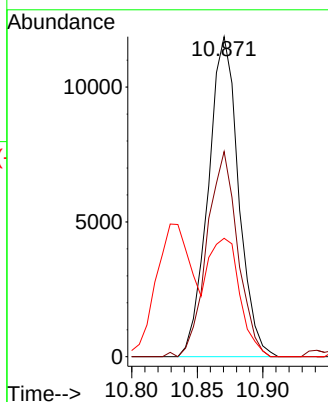
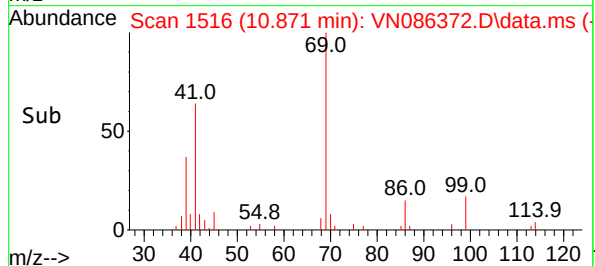
Tgt Ion: 69 Resp: 19120
Ion Ratio Lower Upper
69 100
41 64.1 32.3 96.8
39 37.0 19.1 57.1

Manual Integrations
APPROVED

Reviewed By :John
Carlone

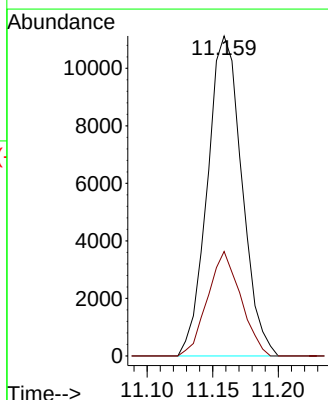
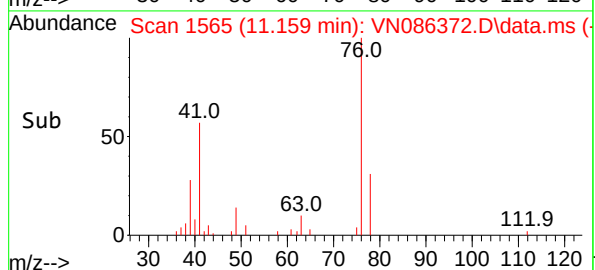
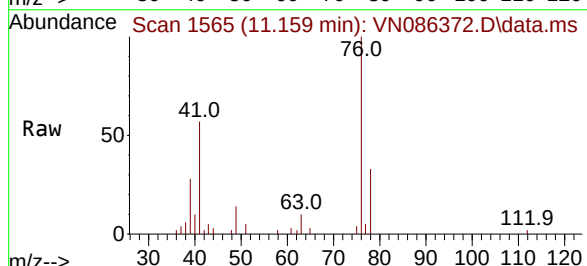
04/24/2025
Supervised By :Mahesh
Dadoda

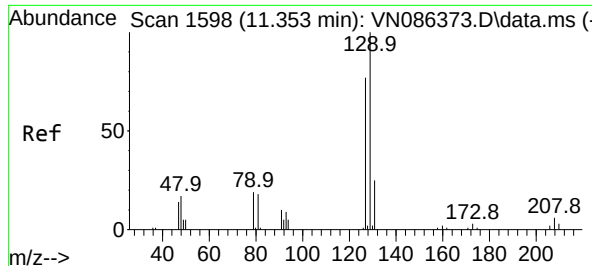
04/25/2025



#52
1,3-Dichloropropane
Concen: 4.887 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

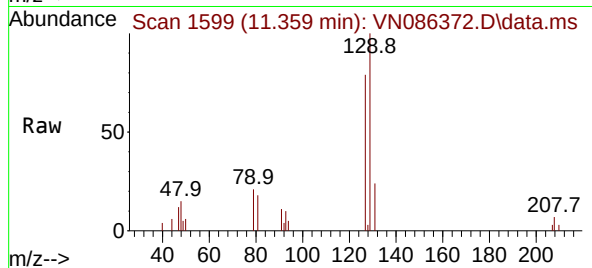
Tgt Ion: 76 Resp: 20341
Ion Ratio Lower Upper
76 100
78 31.4 0.0 65.6





#53
Dibromochloromethane
Concen: 4.763 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



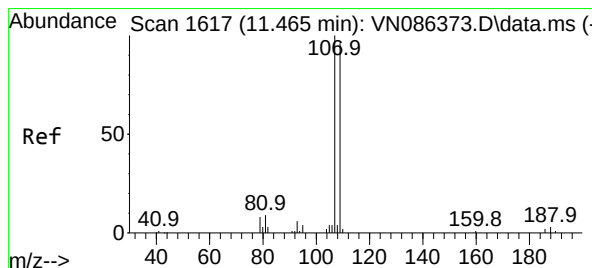
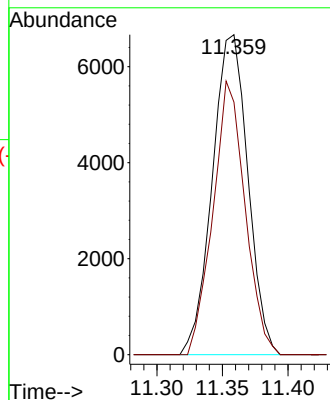
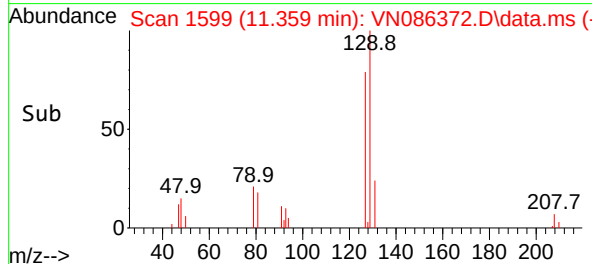
Tgt Ion:129 Resp: 12590
Ion Ratio Lower Upper
129 100
127 77.0 38.8 116.3

Manual Integrations
APPROVED

Reviewed By :John
Carlone

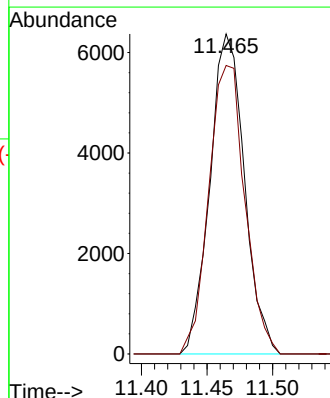
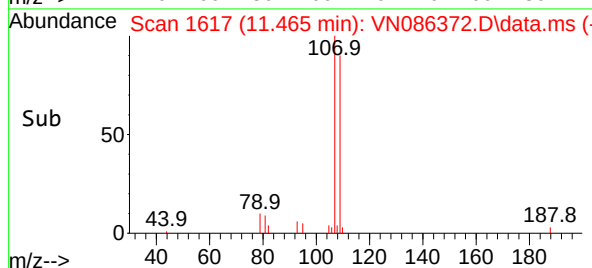
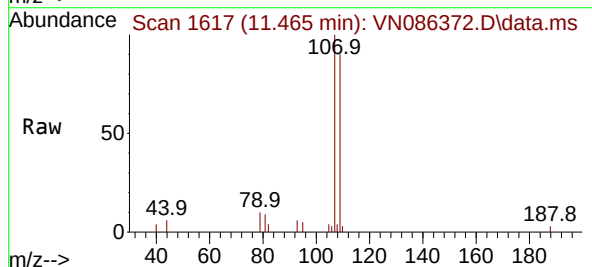
04/24/2025
Supervised By :Mahesh
Dadoda

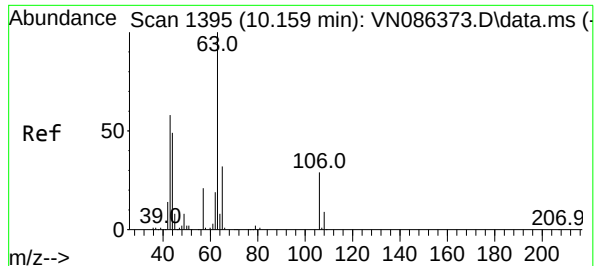
04/25/2025



#54
1,2-Dibromoethane
Concen: 4.868 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

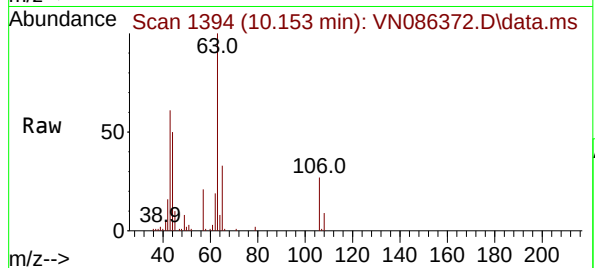
Tgt Ion:107 Resp: 11656
Ion Ratio Lower Upper
107 100
109 94.5 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 23.017 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



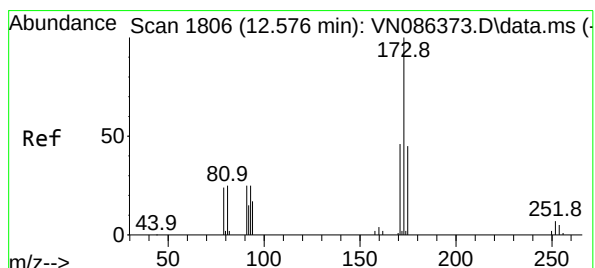
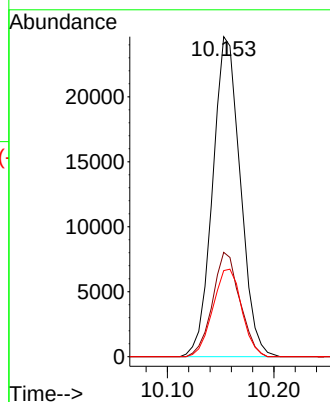
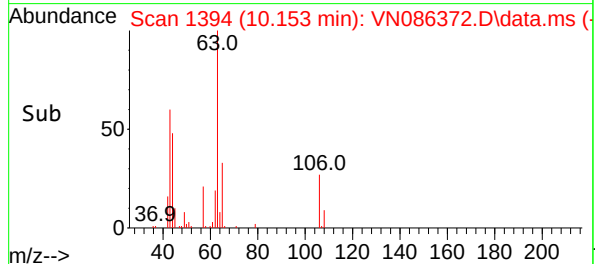
Tgt Ion: 63 Resp: 4438
Ion Ratio Lower Upper
63 100
65 32.2 25.7 38.5
106 28.5 22.3 33.5

Manual Integrations
APPROVED

Reviewed By :John
Carlone

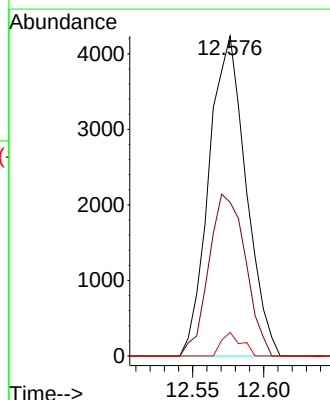
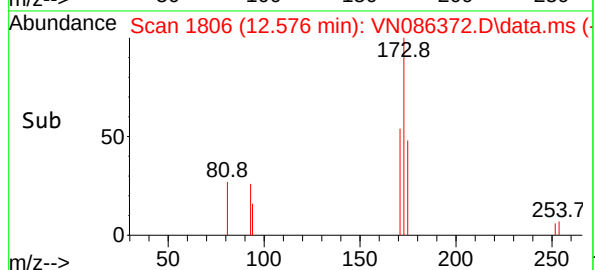
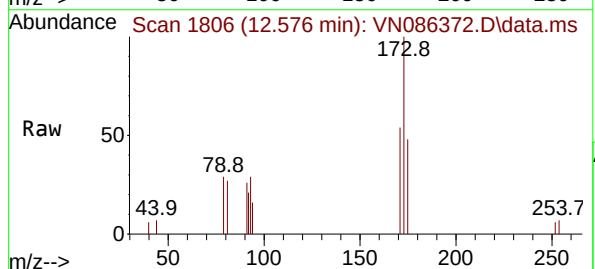
04/24/2025
Supervised By :Mahesh
Dadoda

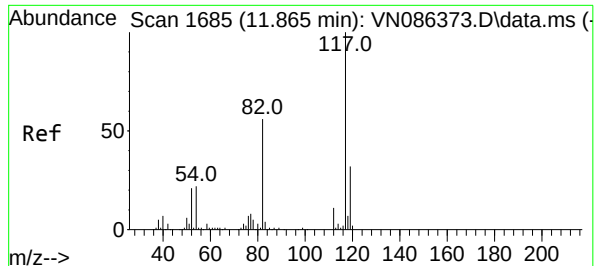
04/25/2025



#56
Bromoform
Concen: 4.471 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

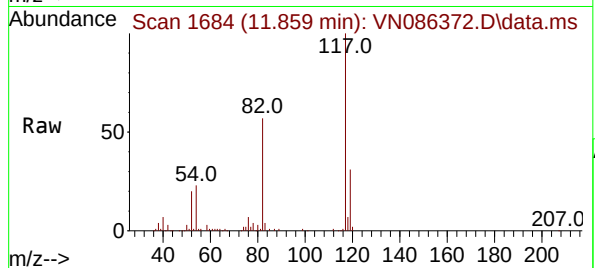
Tgt Ion:173 Resp: 7673
Ion Ratio Lower Upper
173 100
175 50.3 39.0 58.6
254 4.0 3.8 5.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



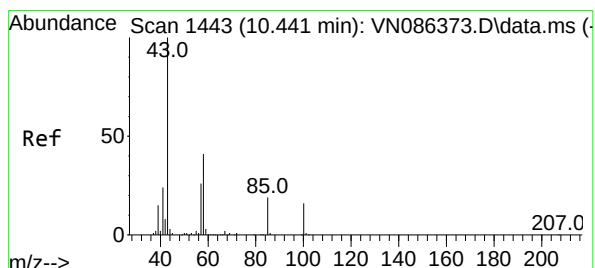
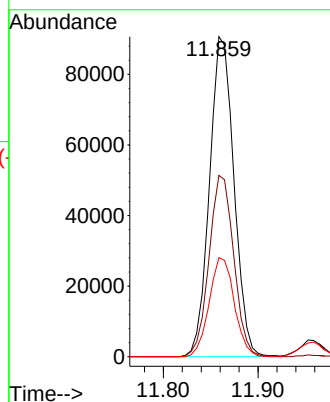
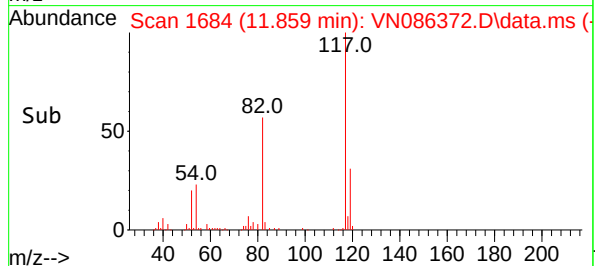
Tgt Ion: 117 Resp: 16294
Ion Ratio Lower Upper
117 100
82 57.1 45.5 68.3
119 31.7 25.9 38.9

Manual Integrations
APPROVED

Reviewed By :John
Carlone

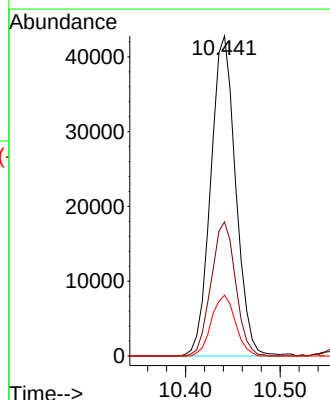
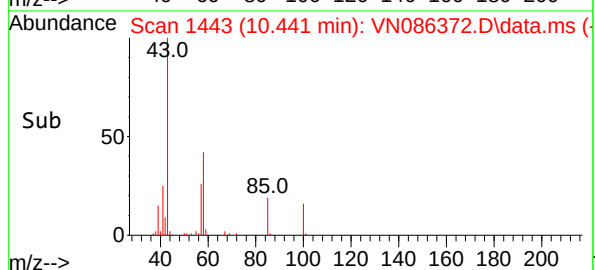
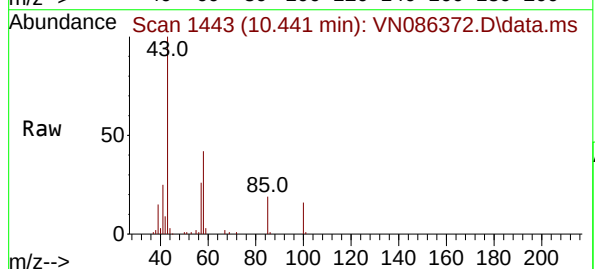
04/24/2025
Supervised By :Mahesh
Dadoda

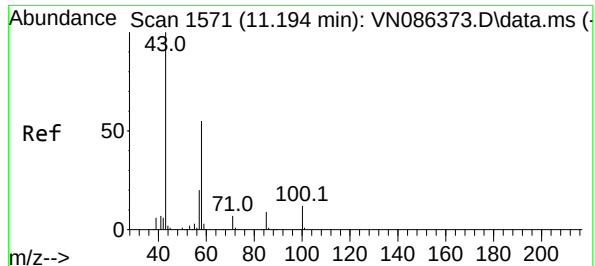
04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 24.901 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 43 Resp: 78517
Ion Ratio Lower Upper
43 100
58 41.0 33.0 49.6
85 18.2 14.9 22.3





#59

2-Hexanone

Concen: 24.809 ug/l

RT: 11.188 min Scan# 1571

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

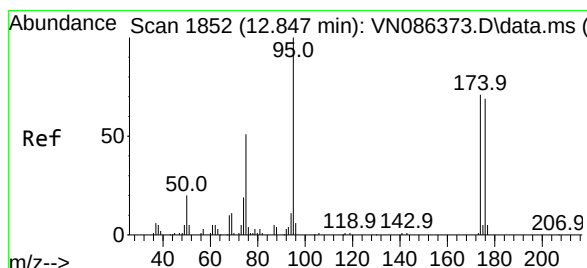
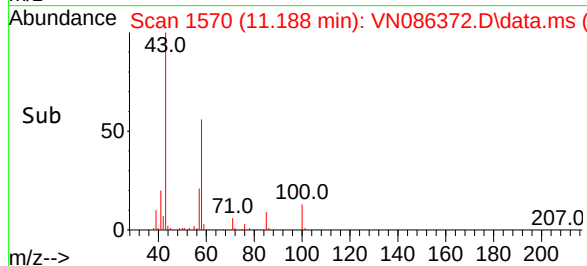
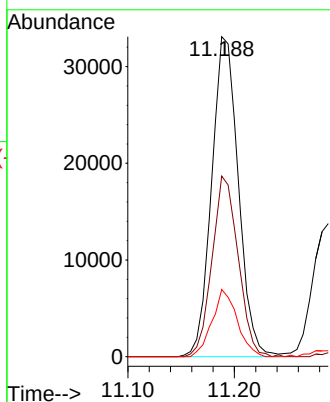
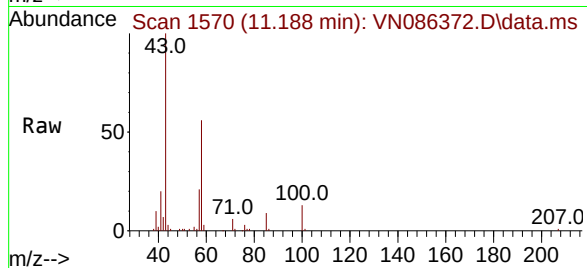
Tgt Ion: 43	Resp: 57648
Ion Ratio	Lower Upper
43 100	
58 54.9	45.0 67.6
57 19.7	15.5 23.3

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#60

4-Bromofluorobenzene

Concen: 28.680 ug/l

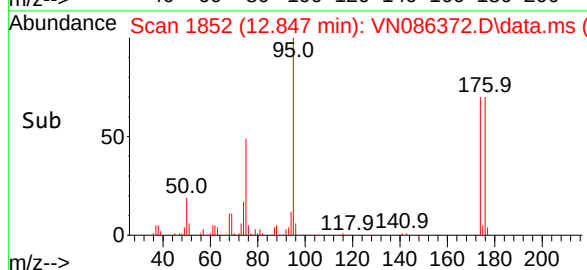
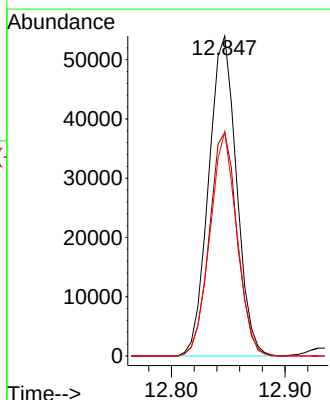
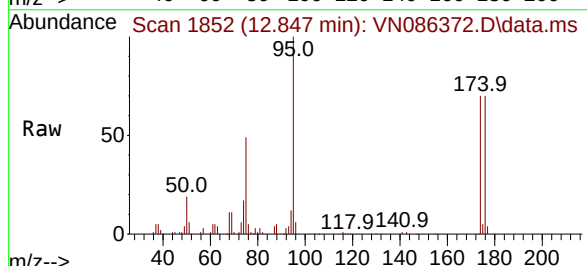
RT: 12.847 min Scan# 1852

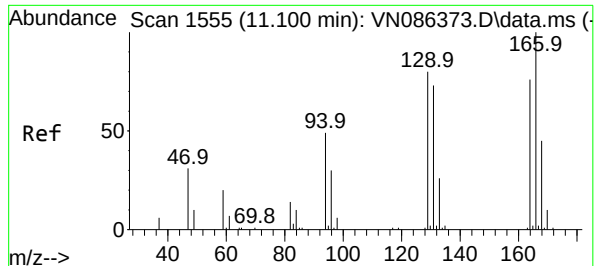
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

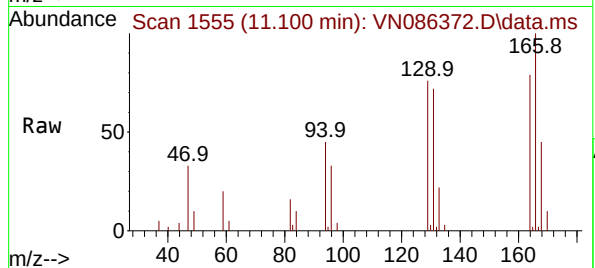
Tgt Ion: 95	Resp: 91848
Ion Ratio	Lower Upper
95 100	
174 69.9	56.6 84.8
176 67.8	53.3 79.9





#61
Tetrachloroethene
Concen: 5.193 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



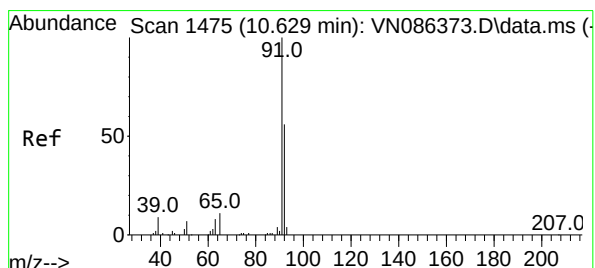
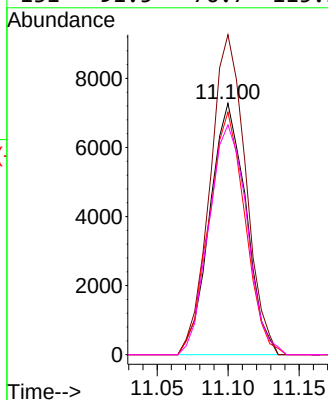
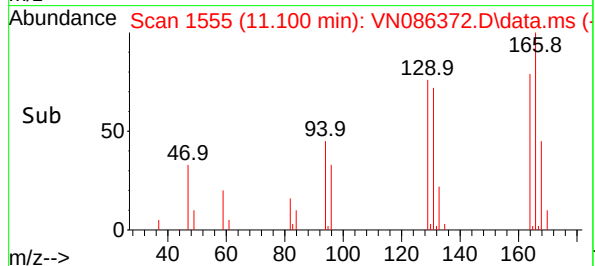
Tgt Ion:164 Resp: 1290
Ion Ratio Lower Upper
164 100
166 127.3 105.0 157.4
129 96.5 83.9 125.9
131 91.5 76.7 115.1

Manual Integrations
APPROVED

Reviewed By :John
Carlone

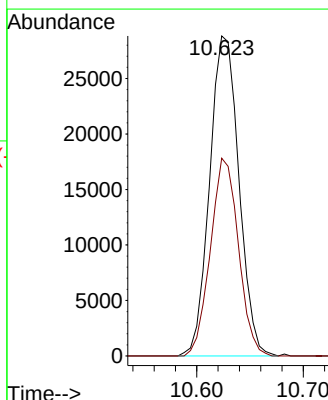
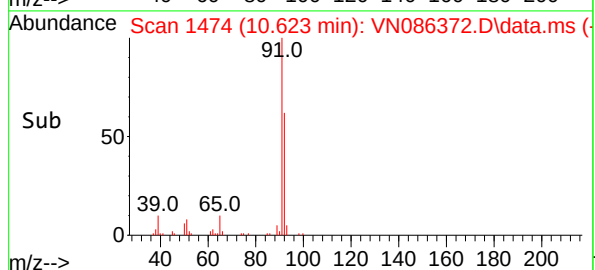
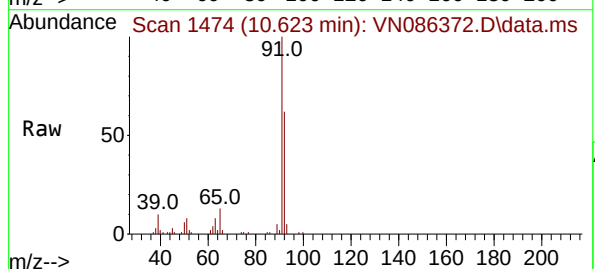
04/24/2025
Supervised By :Mahesh
Dadoda

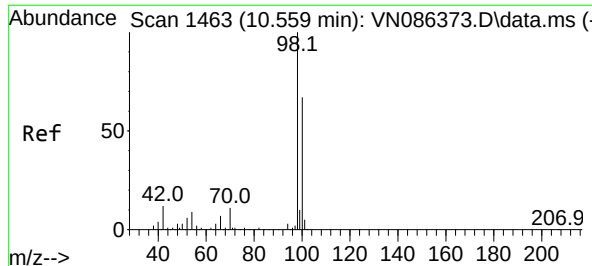
04/25/2025



#62
Toluene
Concen: 5.042 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

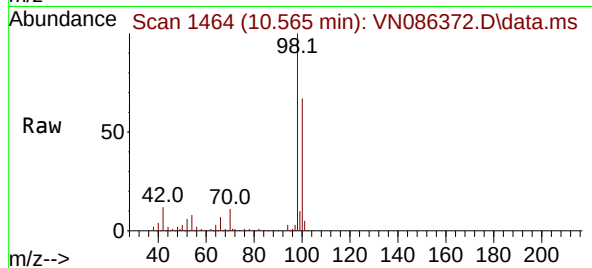
Tgt Ion: 91 Resp: 54989
Ion Ratio Lower Upper
91 100
92 59.1 45.7 68.5





#63
Toluene-d8
Concen: 30.293 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



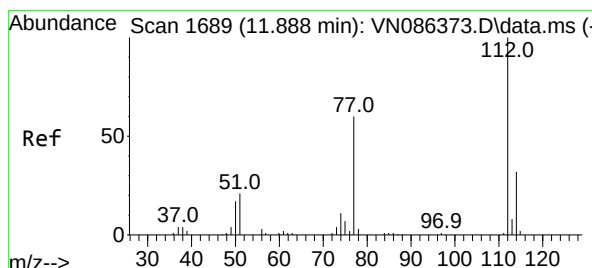
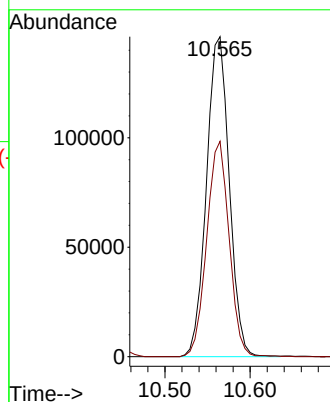
Tgt Ion: 98 Resp: 271554
Ion Ratio Lower Upper
98 100
100 66.0 53.1 79.7

Manual Integrations
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Reviewed By :John
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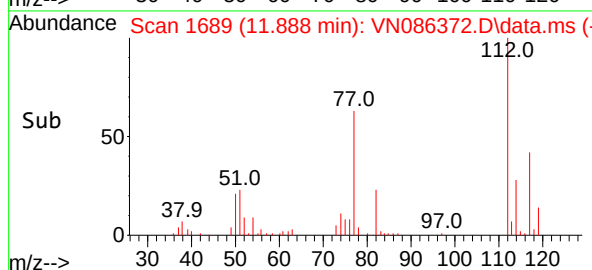
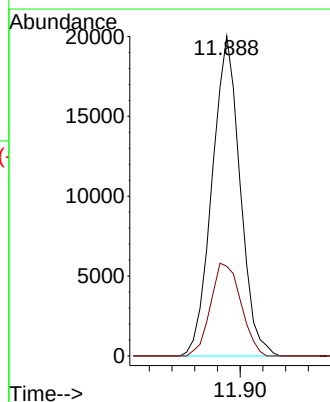
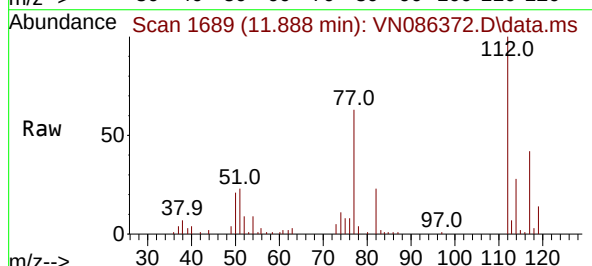
04/24/2025
Supervised By :Mahesh
Dadoda

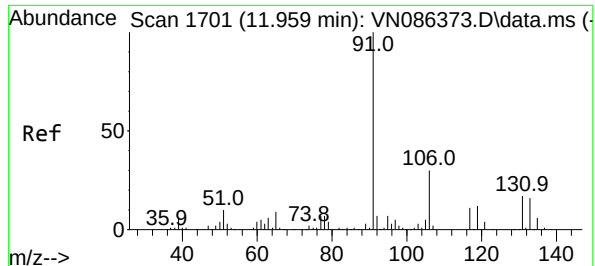
04/25/2025



#64
Chlorobenzene
Concen: 5.040 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion:112 Resp: 34249
Ion Ratio Lower Upper
112 100
114 28.0 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 4.981 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:	131	Resp:	11318
Ion	Ratio	Lower	Upper
131	100		
133	94.1	0.0	191.4
119	64.4	0.0	133.6

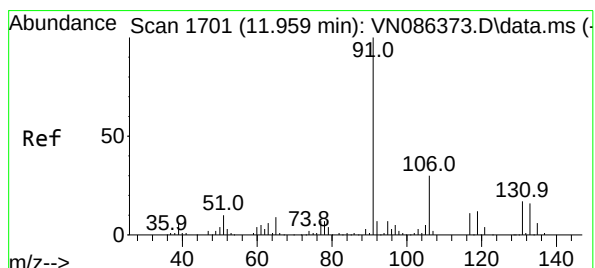
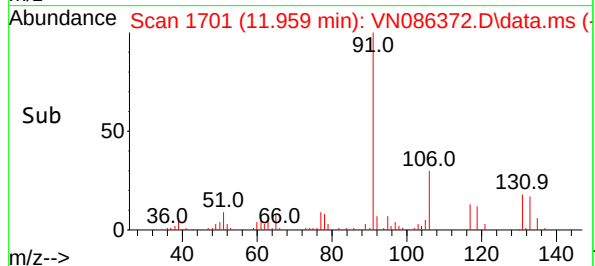
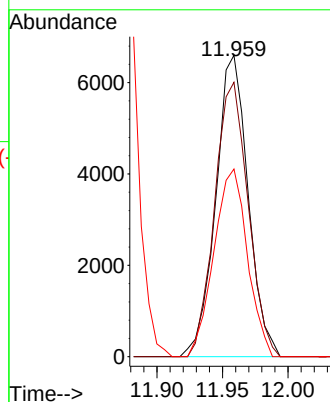
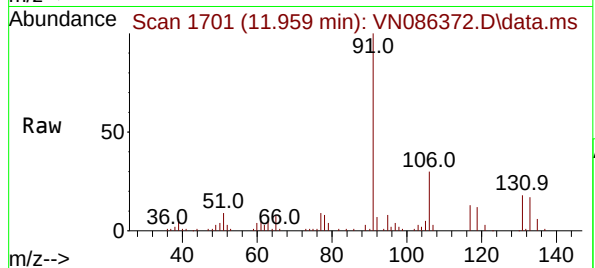
Manual Integrations
APPROVED

Reviewed By :John
Carlone

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#66

Ethyl Benzene

Concen: 4.909 ug/l

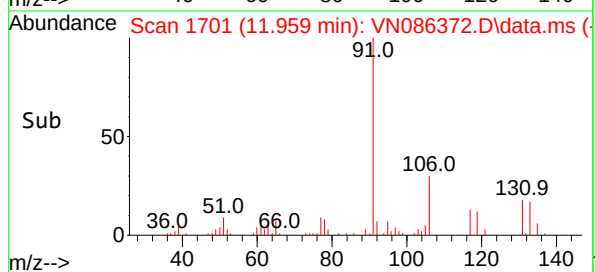
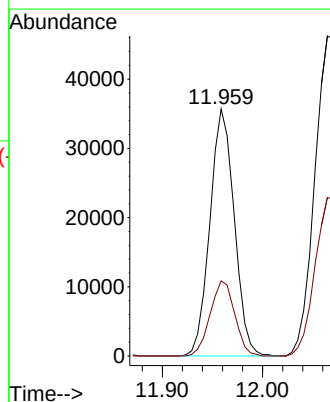
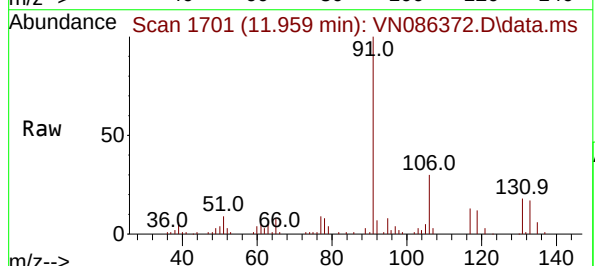
RT: 11.959 min Scan# 1701

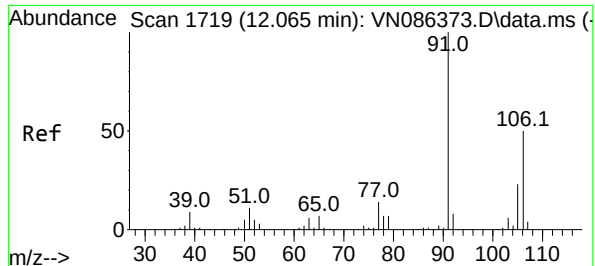
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion:	91	Resp:	60268
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5





#67
m/p-Xylenes
Concen: 9.904 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

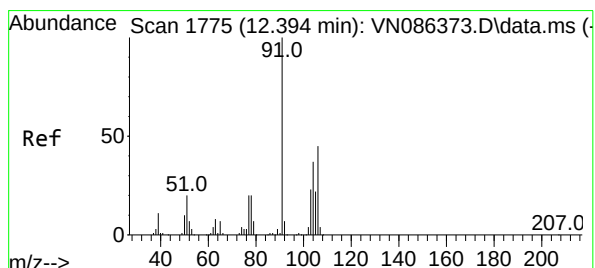
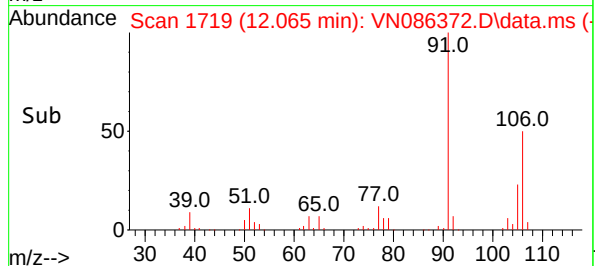
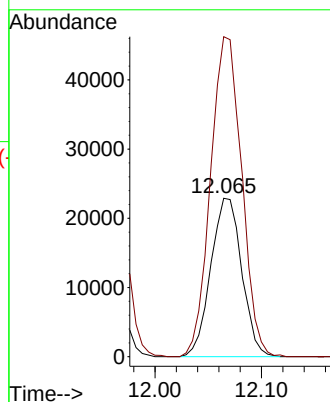
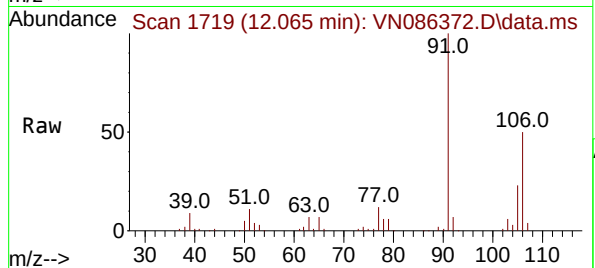
Tgt Ion:106 Resp: 4613
Ion Ratio Lower Upper
106 100
91 203.8 162.6 243.8

Manual Integrations
APPROVED

Reviewed By :John
Carlone

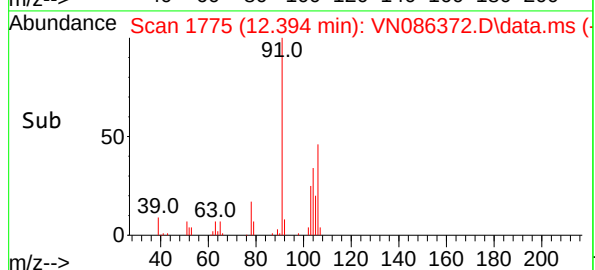
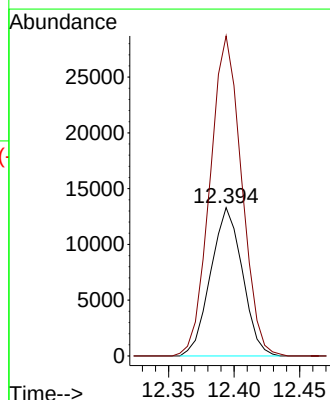
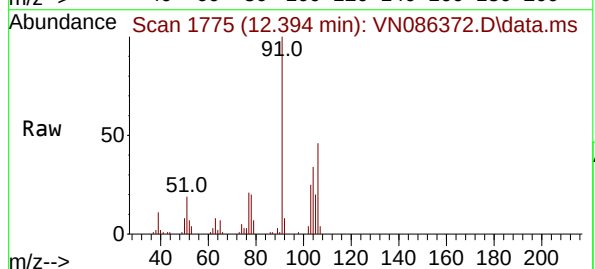
04/24/2025
Supervised By :Mahesh
Dadoda

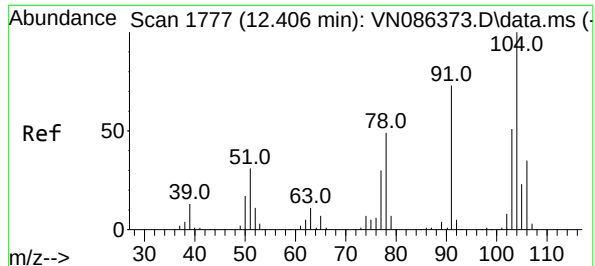
04/25/2025



#68
o-Xylene
Concen: 4.915 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion:106 Resp: 22418
Ion Ratio Lower Upper
106 100
91 214.7 110.6 331.6





#69

Styrene

Concen: 4.570 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

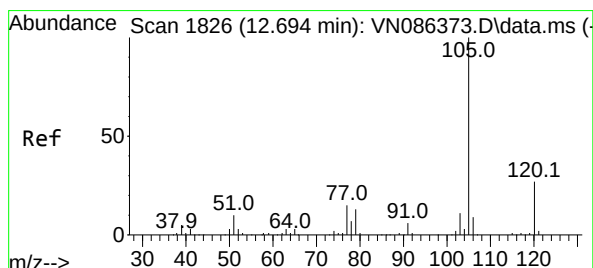
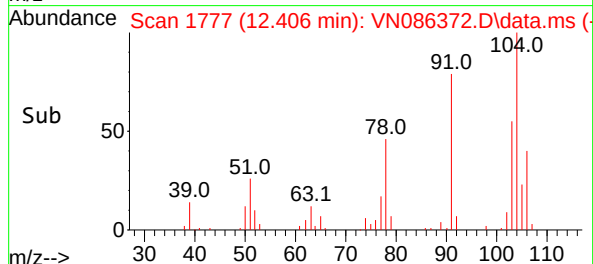
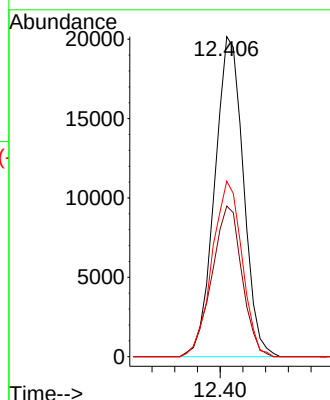
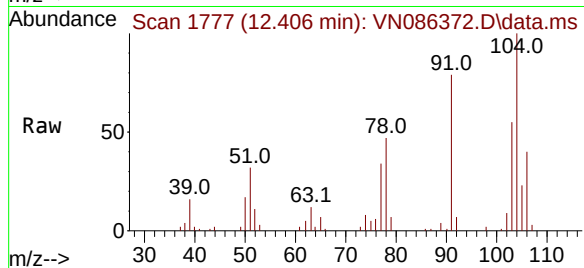
Tgt Ion	104	Resp	35329
Ion	Ratio	Lower	Upper
104	100		
78	49.5	40.2	60.4
103	57.1	43.8	65.8

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#70

Isopropylbenzene

Concen: 4.764 ug/l

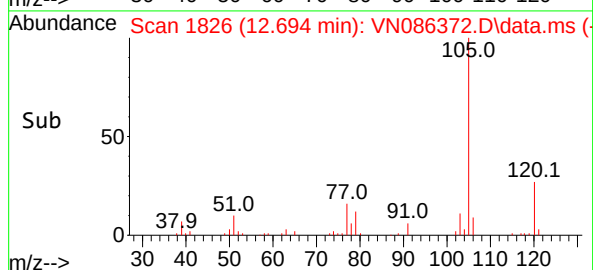
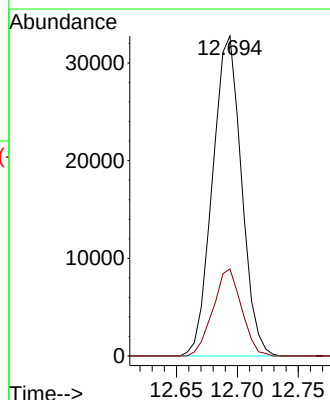
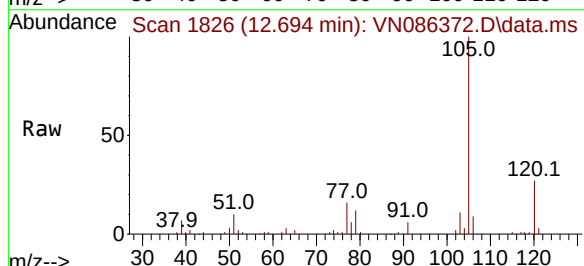
RT: 12.694 min Scan# 1826

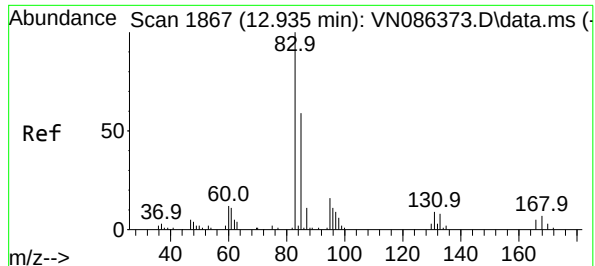
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

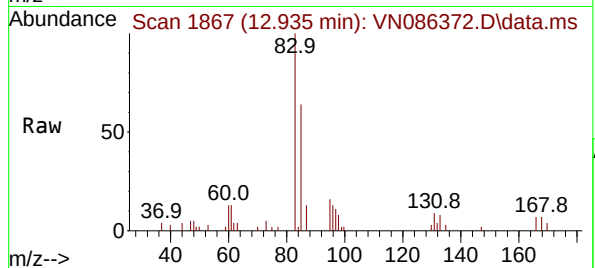
Tgt Ion	105	Resp	54240
Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.2	33.8





#71
1,1,2,2-Tetrachloroethane
Concen: 5.087 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



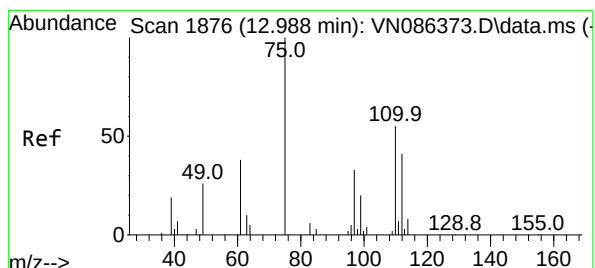
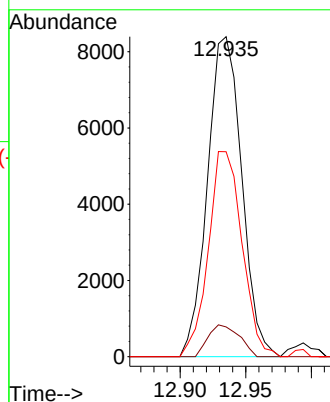
Tgt Ion: 83 Resp: 15250
Ion Ratio Lower Upper
83 100
131 9.0 4.5 13.7
85 63.1 31.7 95.1

Manual Integrations
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Reviewed By :John
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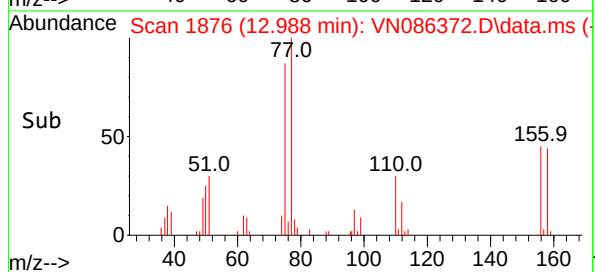
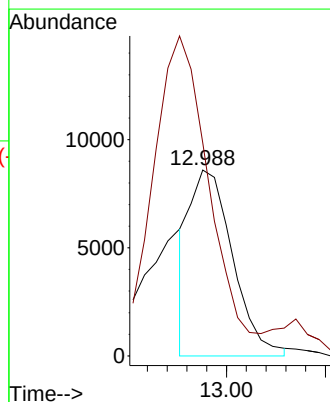
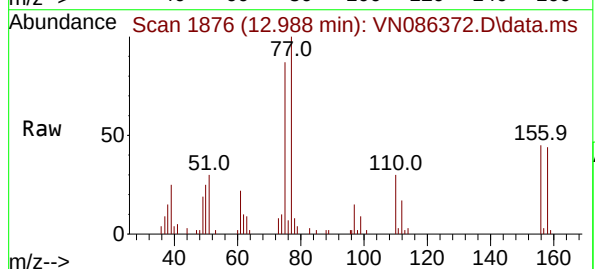
04/24/2025
Supervised By :Mahesh
Dadoda

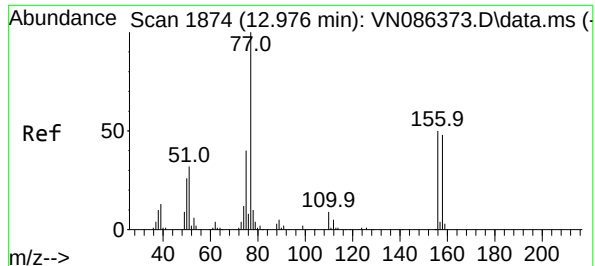
04/25/2025



#72
1,2,3-Trichloropropane
Concen: 4.993 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

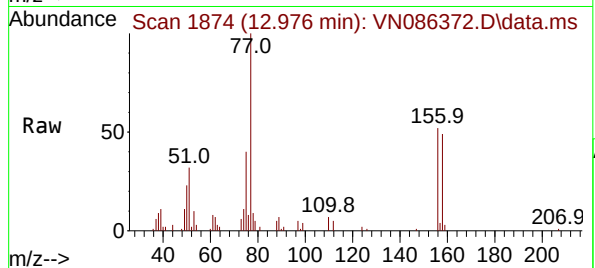
Tgt Ion: 75 Resp: 12969
Ion Ratio Lower Upper
75 100
77 229.4 0.0 464.4





#73
Bromobenzene
Concen: 4.807 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



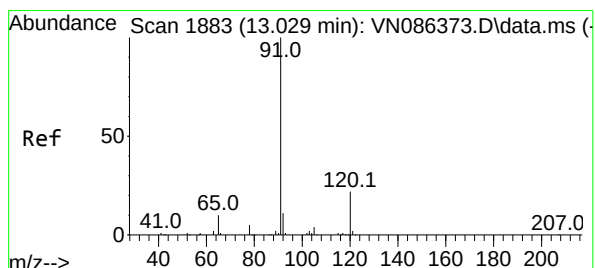
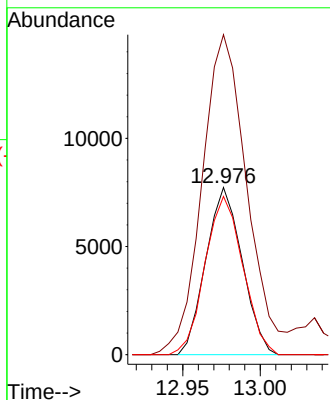
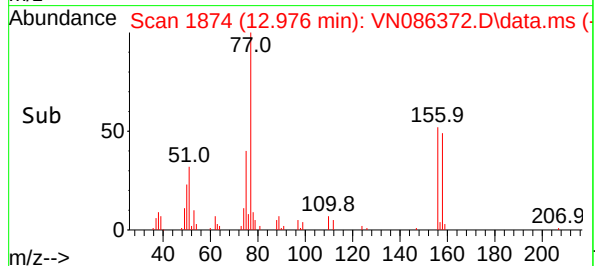
Tgt Ion: 156 Resp: 1258
Ion Ratio Lower Upper
156 100
77 236.5 0.0 463.4
158 98.7 0.0 191.8

Manual Integrations
APPROVED

Reviewed By :John
Carlone

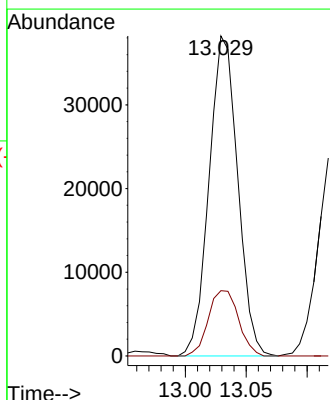
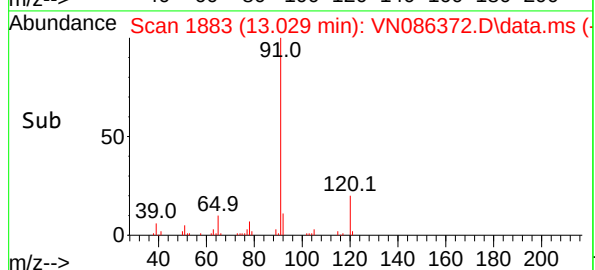
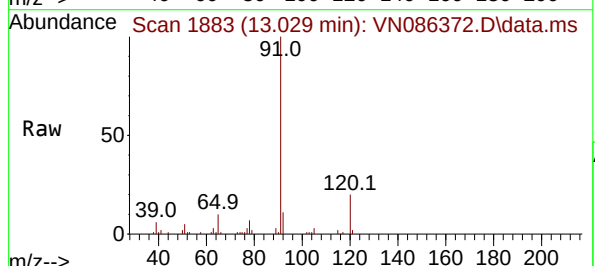
04/24/2025
Supervised By :Mahesh
Dadoda

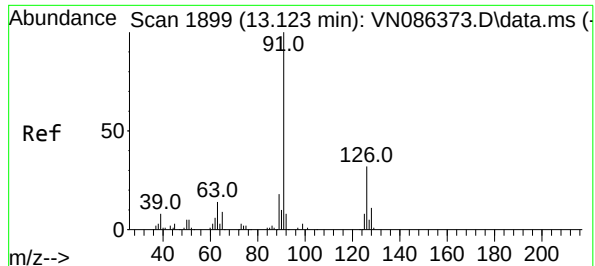
04/25/2025



#74
n-propylbenzene
Concen: 4.630 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion: 91 Resp: 62642
Ion Ratio Lower Upper
91 100
120 21.5 0.0 43.8





#75
2-Chlorotoluene
Concen: 4.856 ug/l
RT: 13.117 min Scan# 1899
Delta R.T. -0.006 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

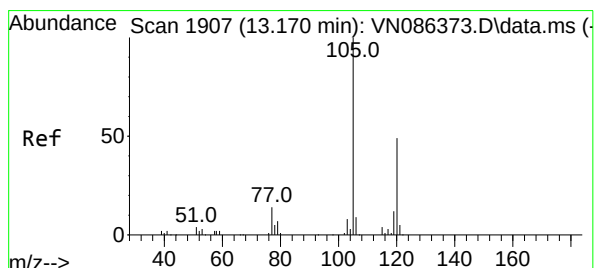
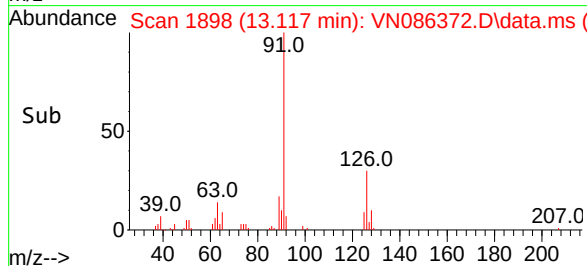
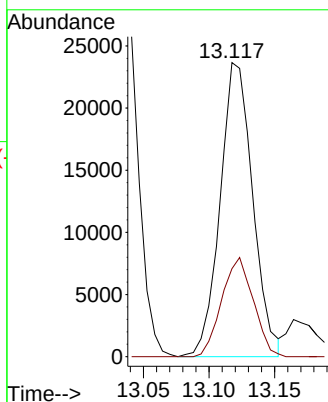
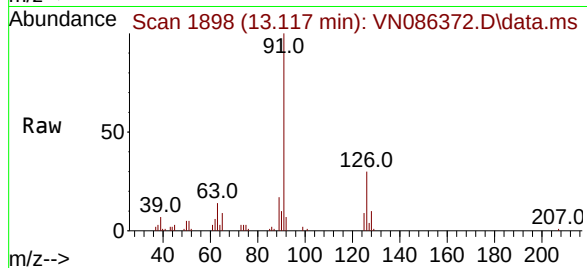
Tgt Ion: 91 Resp: 4101
Ion Ratio Lower Upper
91 100
126 32.5 0.0 65.0

Manual Integrations
APPROVED

Reviewed By :John
Carlone

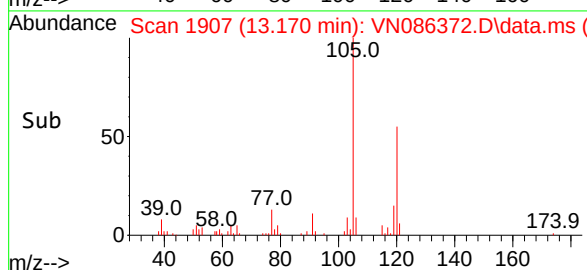
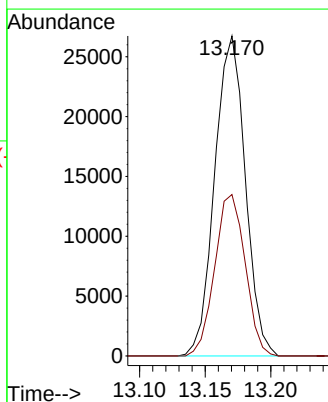
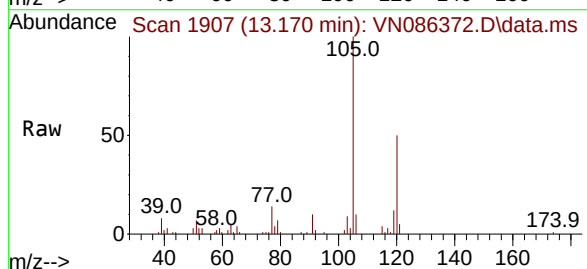
04/24/2025
Supervised By :Mahesh
Dadoda

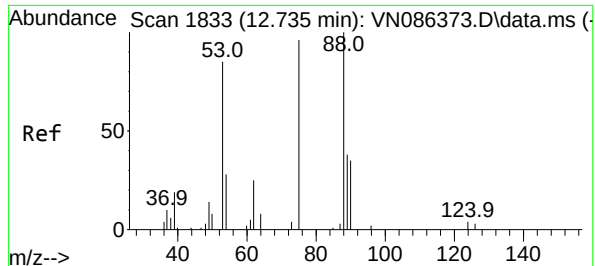
04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 4.642 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion:105 Resp: 43366
Ion Ratio Lower Upper
105 100
120 50.2 0.0 97.6





#77

t-1,4-Dichloro-2-butene

Concen: 4.624 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 613

Ion Ratio Lower Upper

75 100

53 97.4 46.0 138.0

89 41.2 21.6 64.6

Manual Integrations

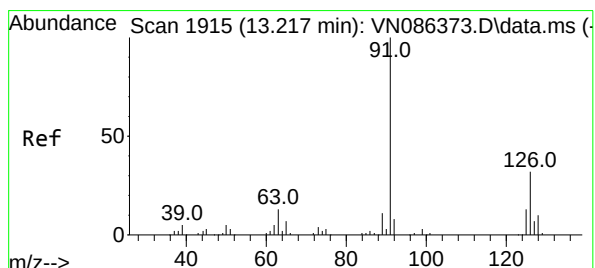
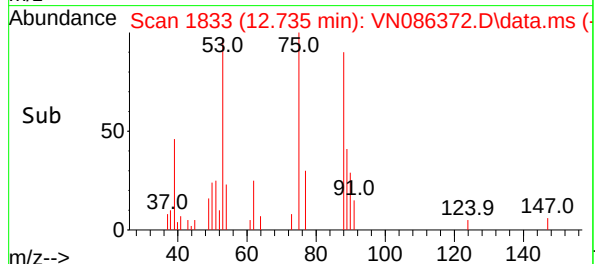
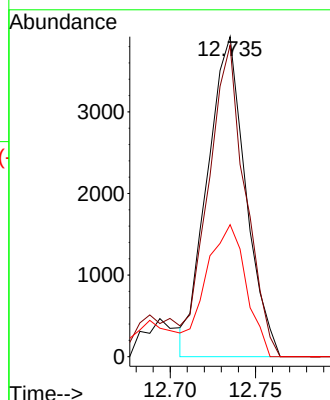
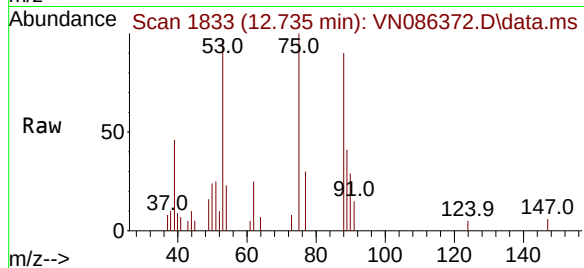
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#78

4-Chlorotoluene

Concen: 4.685 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN086372.D

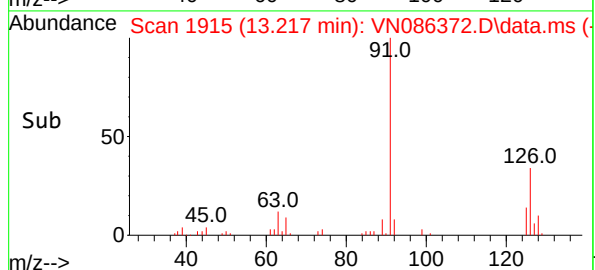
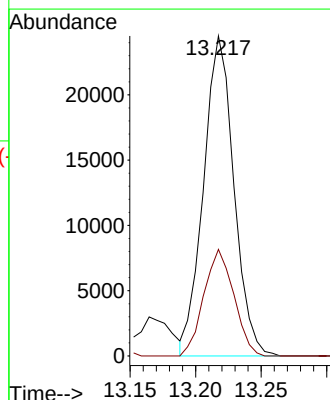
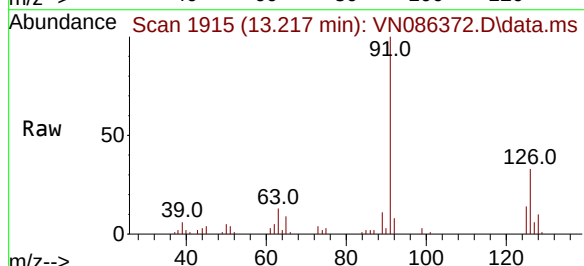
Acq: 23 Apr 2025 09:22

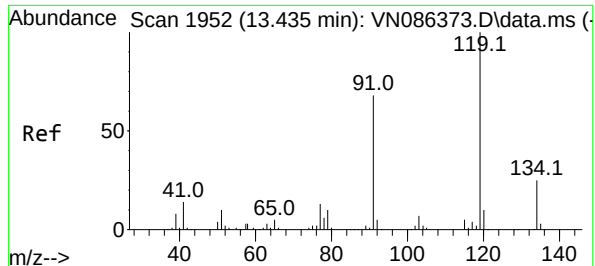
Tgt Ion: 91 Resp: 39565

Ion Ratio Lower Upper

91 100

126 32.8 0.0 65.4





#79
tert-butylbenzene
Concen: 4.814 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

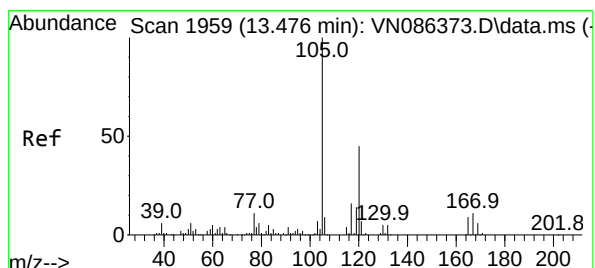
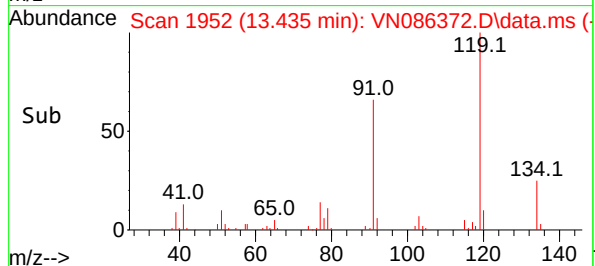
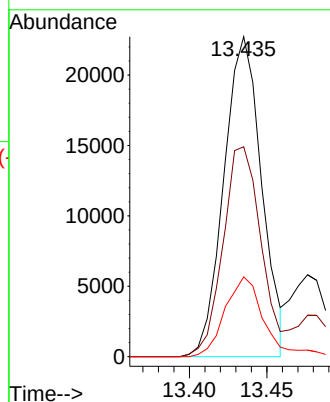
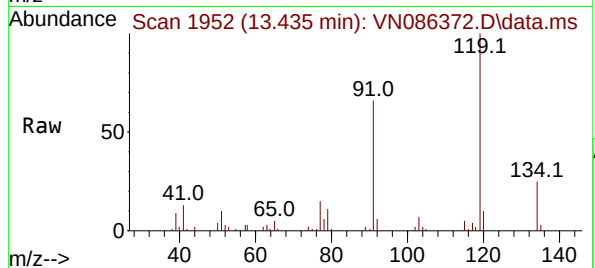
Tgt Ion:119 Resp: 3851
Ion Ratio Lower Upper
119 100
91 65.8 0.0 137.4
134 24.9 0.0 49.2

Manual Integrations
APPROVED

Reviewed By :John
Carlone

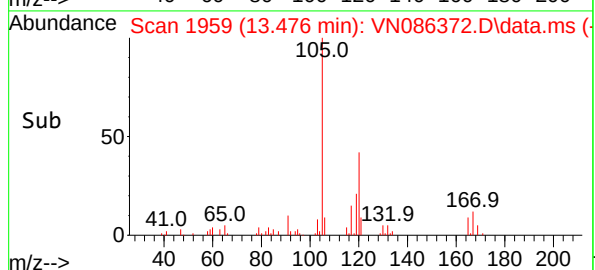
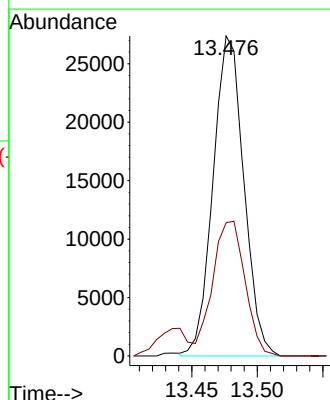
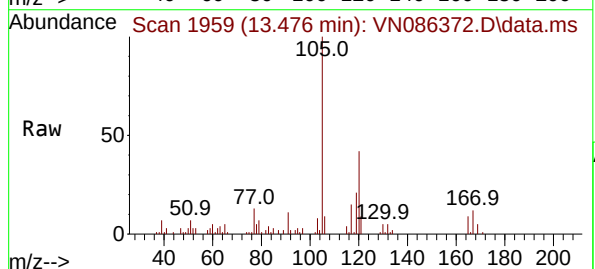
04/24/2025
Supervised By :Mahesh
Dadoda

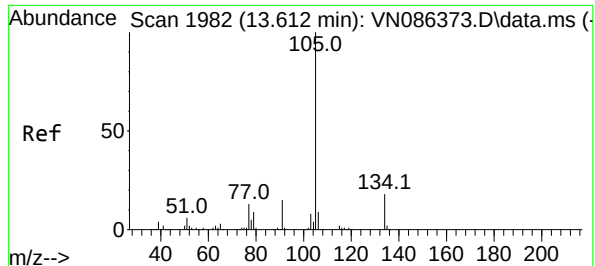
04/25/2025



#80
1,2,4-Trimethylbenzene
Concen: 4.679 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion:105 Resp: 44636
Ion Ratio Lower Upper
105 100
120 44.0 0.0 87.6





#81
sec-Butylbenzene
Concen: 4.745 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

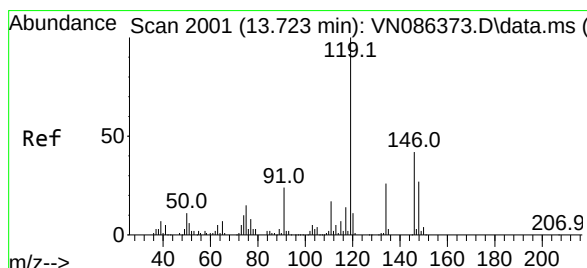
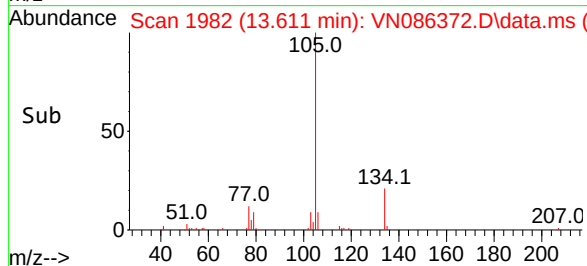
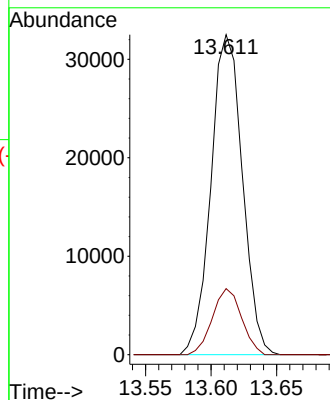
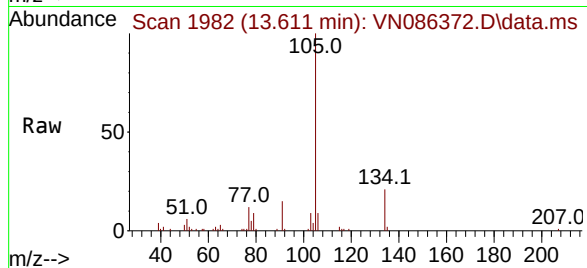
Tgt Ion:105 Resp: 54180
Ion Ratio Lower Upper
105 100
134 19.2 0.0 38.4

Manual Integrations
APPROVED

Reviewed By :John
Carlone

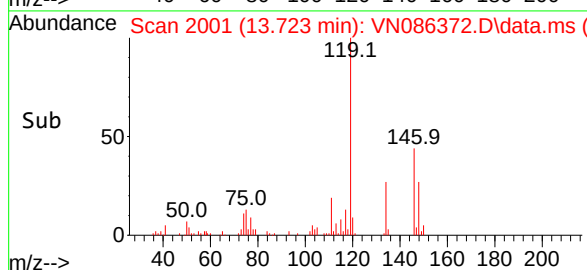
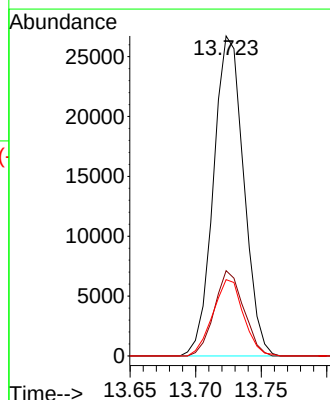
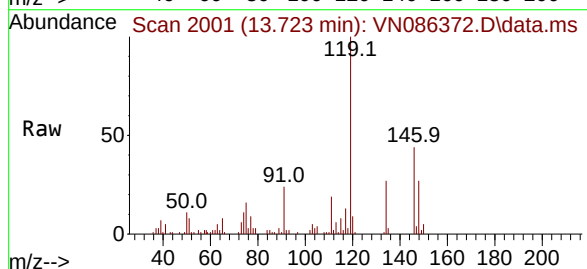
04/24/2025
Supervised By :Mahesh
Dadoda

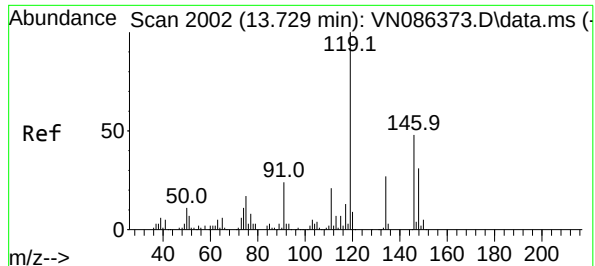
04/25/2025



#82
p-Isopropyltoluene
Concen: 4.486 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086372.D
Acq: 23 Apr 2025 09:22

Tgt Ion:119 Resp: 42872
Ion Ratio Lower Upper
119 100
134 25.8 0.0 52.2
91 24.2 0.0 47.6





#83

1,3-Dichlorobenzene

Concen: 4.595 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

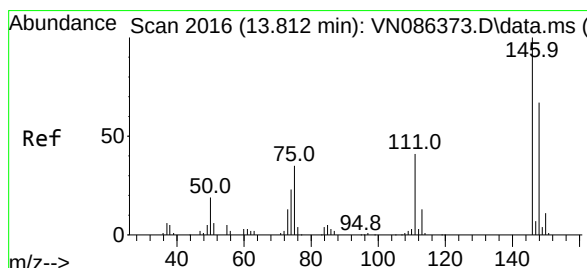
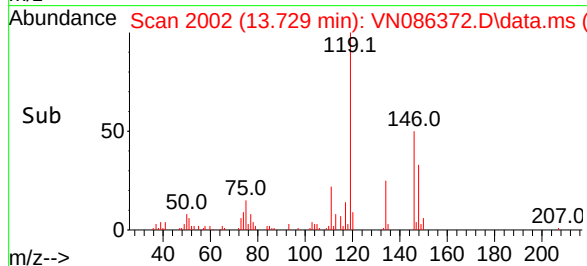
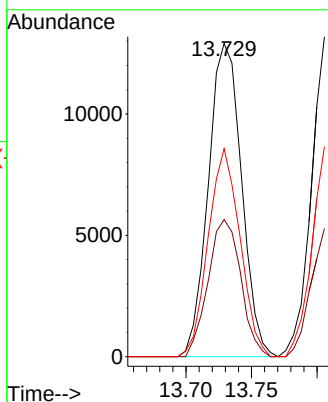
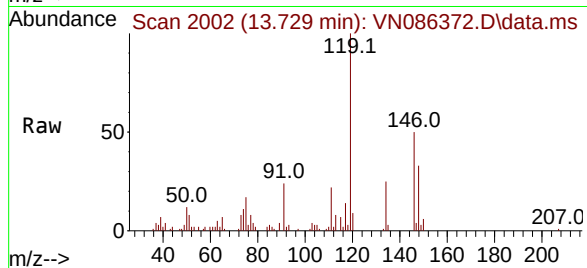
Tgt Ion:146	Resp:	2273
Ion	Ratio	Lower Upper
146	100	
111	43.0	20.7 62.1
148	63.6	32.3 96.8

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#84

1,4-Dichlorobenzene

Concen: 4.673 ug/l

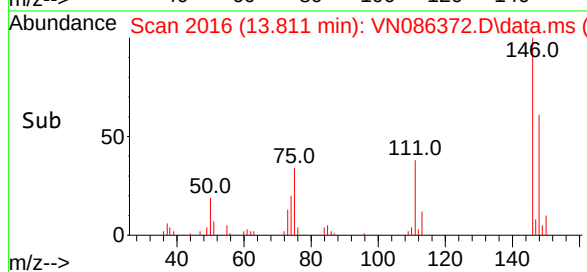
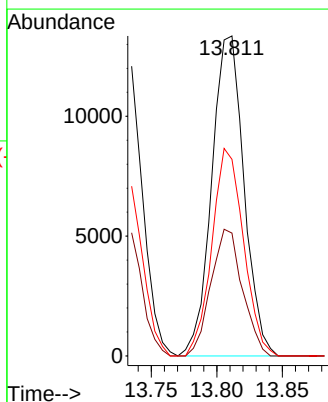
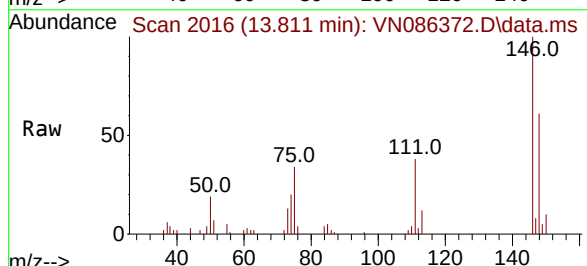
RT: 13.811 min Scan# 2016

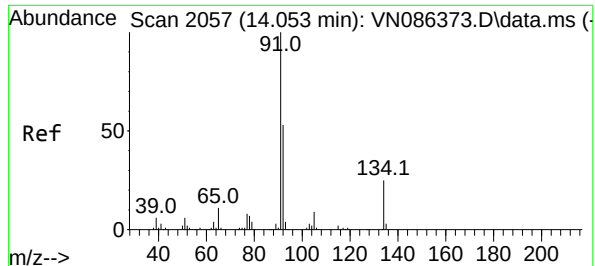
Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion:146	Resp:	22845
Ion	Ratio	Lower Upper
146	100	
111	38.7	20.3 60.8
148	63.6	32.4 97.2





#85

n-Butylbenzene

Concen: 4.377 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

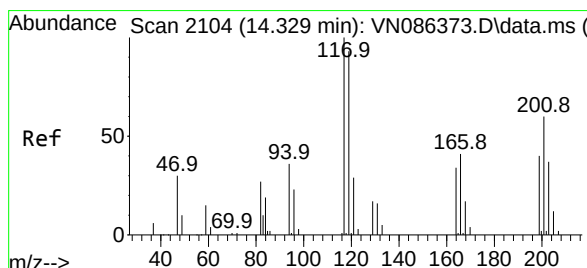
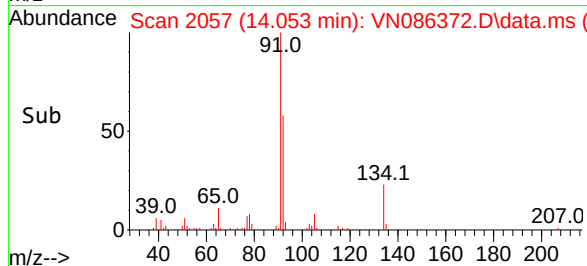
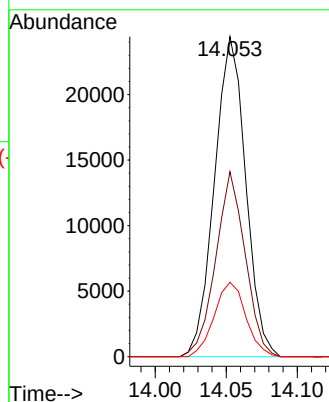
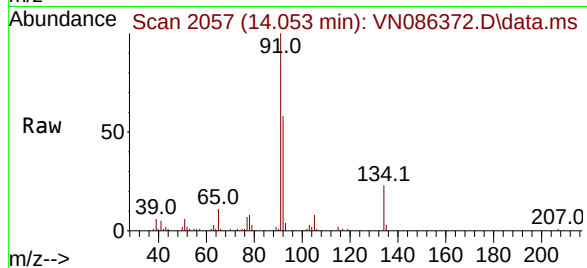
Tgt Ion:	91	Resp:	3732
Ion	Ratio	Lower	Upper
91	100		
92	54.7	0.0	107.2
134	23.6	0.0	48.2

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#86

Hexachloroethane

Concen: 4.512 ug/l

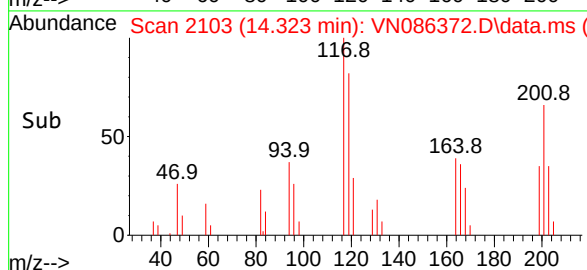
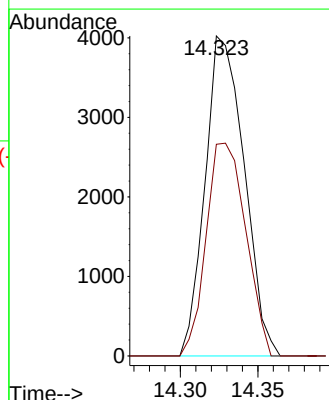
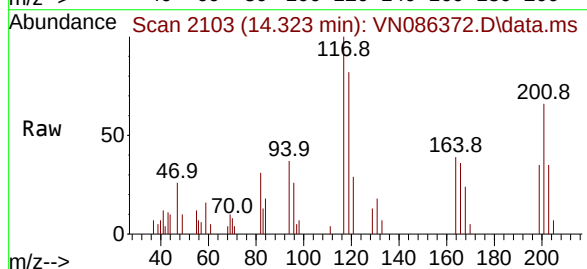
RT: 14.323 min Scan# 2103

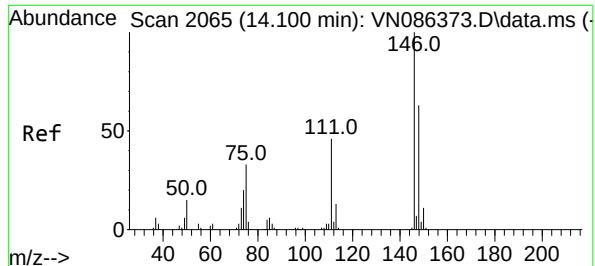
Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion:	117	Resp:	7050
Ion	Ratio	Lower	Upper
117	100		
201	67.4	31.7	95.1





#87

1,2-Dichlorobenzene

Concen: 4.788 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

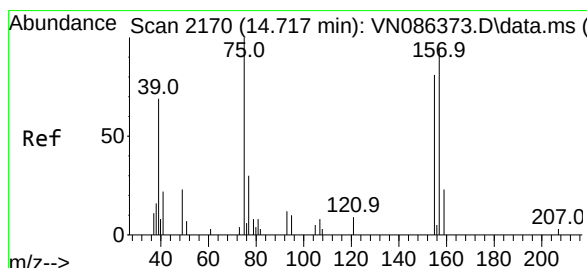
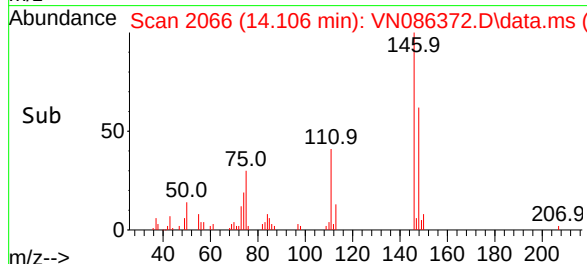
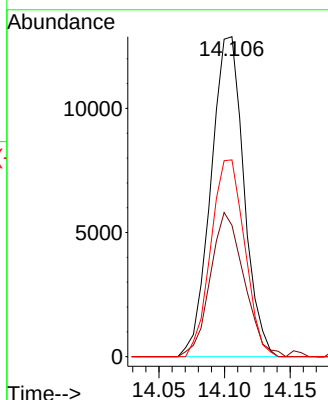
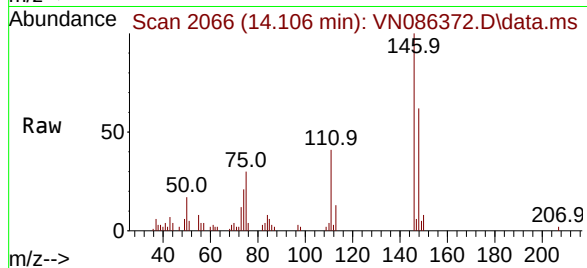
Tgt Ion:	146	Resp:	2254
Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.1	66.3
148	63.0	32.0	96.0

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.909 ug/l

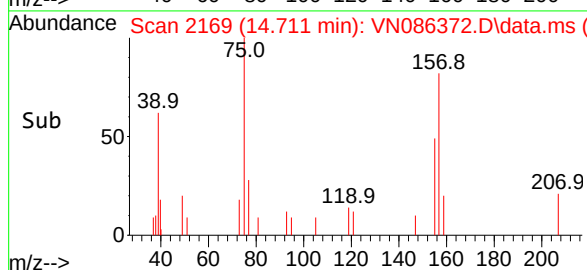
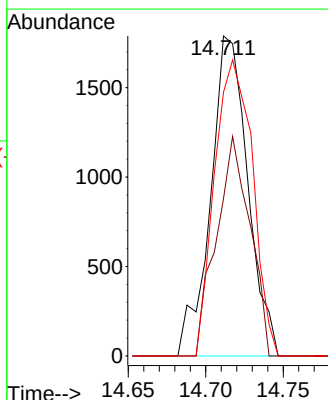
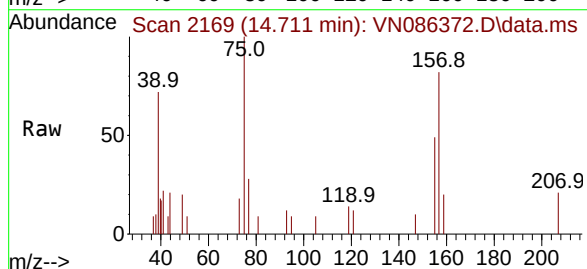
RT: 14.711 min Scan# 2169

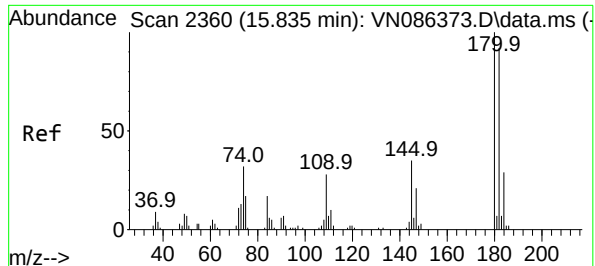
Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion:	75	Resp:	2991
Ion	Ratio	Lower	Upper
75	100		
155	62.0	64.0	96.0#
157	94.1	78.2	117.4





#89

1,2,4-Trichlorobenzene

Concen: 4.392 ug/l

RT: 15.829 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

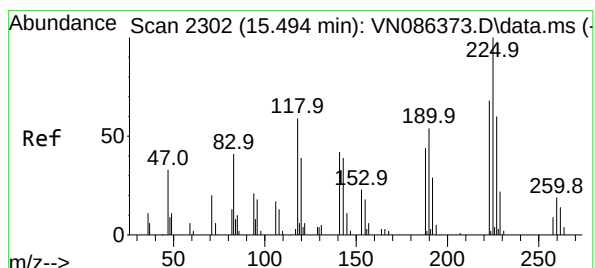
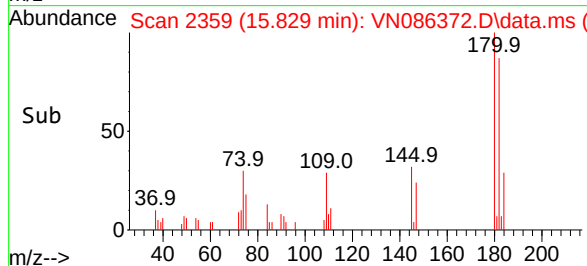
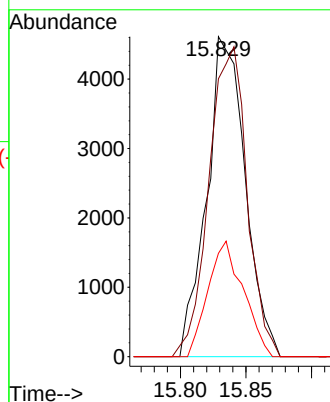
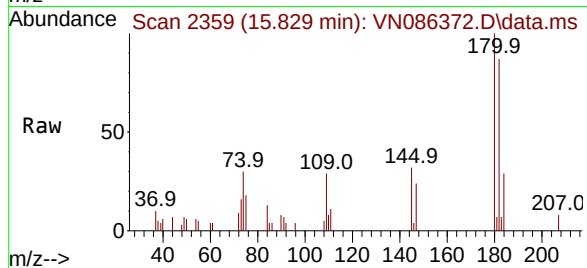
Tgt Ion:180	Resp:	9424
Ion Ratio	Lower	Upper
180	100	
182	95.9	74.8 112.2
145	33.2	26.9 40.3

Manual Integrations
APPROVEDReviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#90

Hexachlorobutadiene

Concen: 5.023 ug/l

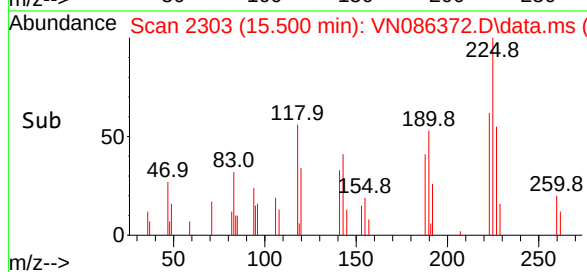
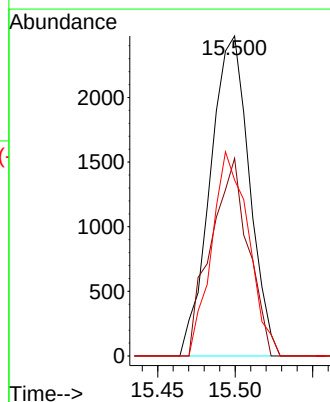
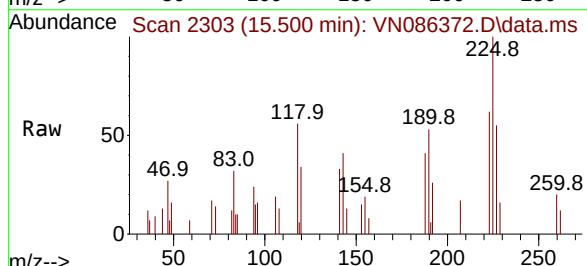
RT: 15.500 min Scan# 2303

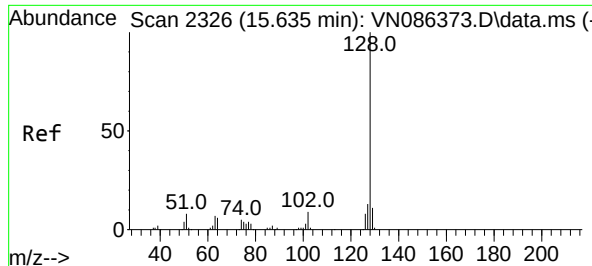
Delta R.T. 0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion:225	Resp:	4341
Ion Ratio	Lower	Upper
225	100	
223	58.9	0.0 128.8
227	60.0	0.0 120.2





#91

Naphthalene

Concen: 4.306 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:128	Resp:	33080
Ion	Ratio	Lower Upper
128	100	
127	12.1	10.6 15.8
129	9.9	8.7 13.1

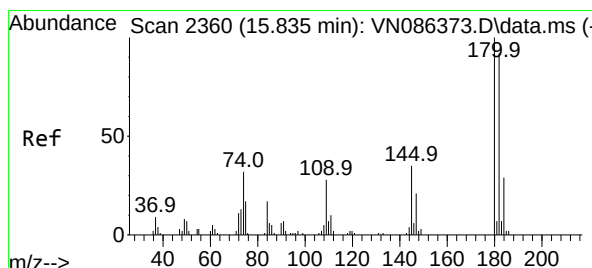
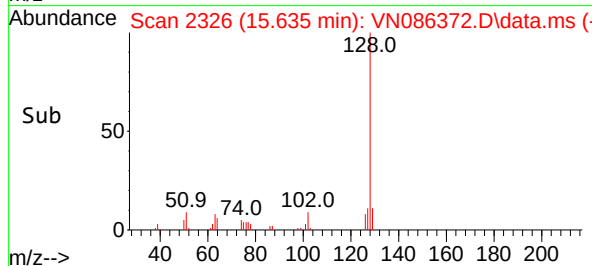
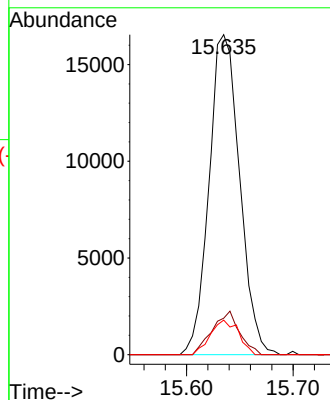
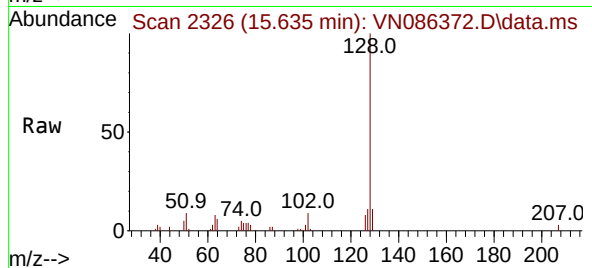
Manual Integrations
APPROVED

Reviewed By :John
Carlone

04/24/2025

Supervised By :Mahesh
Dadoda

04/25/2025



#92

1,2,3-Trichlorobenzene

Concen: 4.392 ug/l

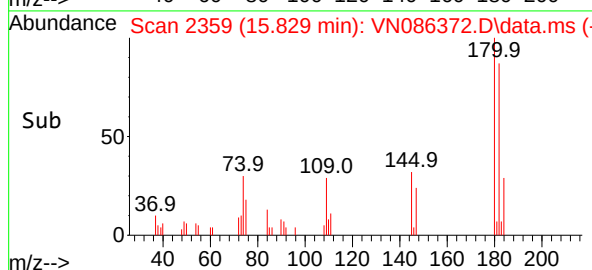
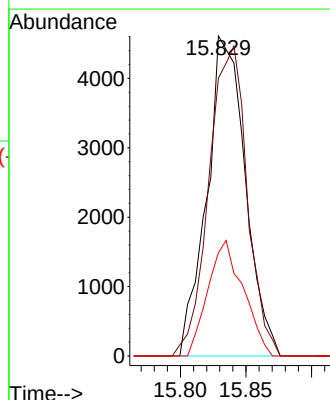
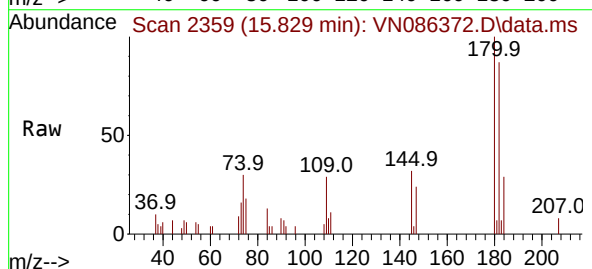
RT: 15.829 min Scan# 2359

Delta R.T. -0.006 min

Lab File: VN086372.D

Acq: 23 Apr 2025 09:22

Tgt Ion:180	Resp:	9424
Ion	Ratio	Lower Upper
180	100	
182	95.9	0.0 187.0
145	33.2	0.0 67.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086373.D
 Acq On : 23 Apr 2025 09:45
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28897	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	176907	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163017	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	86075	30.895	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.000%			
60) 4-Bromofluorobenzene	12.847	95	94119	29.376	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	10.559	98	270583	30.171	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	40965	20.534	ug/l	100
3) Chloromethane	2.365	50	55943	19.741	ug/l	100
4) Vinyl Chloride	2.518	62	54265	19.993	ug/l	100
5) Bromomethane	2.965	94	28909	20.401	ug/l	100
6) Chloroethane	3.124	64	36185	19.998	ug/l	100
7) Trichlorofluoromethane	3.500	101	65562	20.464	ug/l	100
8) Diethyl Ether	3.959	74	26673	19.723	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	39448	20.028	ug/l	100
10) 1,1-Dichloroethene	4.342	96	40368	20.024	ug/l	100
11) Methyl Iodide	4.595	142	46703	19.800	ug/l	100
12) Methyl Acetate	5.018	43	57880	20.256	ug/l	100
13) Acrolein	4.177	56	12298m	83.896	ug/l	
14) Acrylonitrile	5.712	53	106580	100.220	ug/l	100
15) Acetone	4.424	58	26827	91.547	ug/l	100
16) Carbon Disulfide	4.712	76	107956	20.323	ug/l	100
17) Allyl chloride	5.024	41	62671	19.442	ug/l	100
18) Methylene Chloride	5.277	84	45816	19.957	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	42390	19.728	ug/l	100
20) Diisopropyl ether	6.671	45	150643	19.655	ug/l	100
21) 1,1-Dichloroethane	6.565	63	83307	19.857	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	52755	19.635	ug/l	100
23) tert-Butyl Alcohol	5.512	59	43778	106.266	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	148542	19.943	ug/l	100
25) Chloroform	7.965	83	85942	20.241	ug/l	100
26) Cyclohexane	8.253	56	72755	19.641	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	59648	19.126	ug/l	100
30) 2-Butanone	7.477	43	145888	96.376	ug/l	100
31) 2,2-Dichloropropane	7.488	77	77657	19.370	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72334	19.409	ug/l	100
33) Carbon Tetrachloride	8.359	117	59965	19.546	ug/l	100
34) Benzene	8.600	78	192789	19.435	ug/l	100
35) Methacrylonitrile	7.777	41	35245	20.411	ug/l	100
36) 1,2-Dichloroethane	8.665	62	62808	19.502	ug/l	100
37) Trichloroethene	9.347	130	46850	18.866	ug/l	100
38) Methylcyclohexane	9.600	83	69428	19.275	ug/l	100
39) 1,2-Dichloropropane	9.618	63	47394	19.340	ug/l	100
40) Dibromomethane	9.706	93	32116	19.597	ug/l	100
41) Bromodichloromethane	9.882	83	67347	19.419	ug/l	100
42) Vinyl Acetate	6.600	43	518356	98.852	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086373.D
 Acq On : 23 Apr 2025 09:45
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	55894	18.658	ug/l	100
44) Isopropyl Acetate	8.682	43	109922	19.334	ug/l	100
45) 1,4-Dioxane	9.694	88	17979	405.300	ug/l	100
46) Methyl methacrylate	9.677	41	50790	19.367	ug/l	100
47) n-amyl Acetate	12.488	43	92290	19.045	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	74180	19.132	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	78337	19.159	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45121	19.712	ug/l	100
51) Ethyl methacrylate	10.871	69	76257	19.128	ug/l	100
52) 1,3-Dichloropropane	11.159	76	78642	19.439	ug/l	100
53) Dibromochloromethane	11.353	129	49462	19.243	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45261	19.447	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	182398	97.314	ug/l	100
56) Bromoform	12.576	173	32369	19.406	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	308775	97.881	ug/l	100
59) 2-Hexanone	11.194	43	227878	98.024	ug/l	100
61) Tetrachloroethene	11.100	164	46962	18.888	ug/l	100
62) Toluene	10.629	91	212695	19.492	ug/l	100
64) Chlorobenzene	11.888	112	132119	19.432	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	43742	19.241	ug/l	100
66) Ethyl Benzene	11.959	91	237663	19.350	ug/l	100
67) m/p-Xylenes	12.065	106	179085	38.428	ug/l	100
68) o-Xylene	12.394	106	87377	19.149	ug/l	100
69) Styrene	12.406	104	146815	18.983	ug/l	100
70) Isopropylbenzene	12.694	105	219637	19.283	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	61516	20.511	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	50447m	19.411	ug/l	
73) Bromobenzene	12.976	156	50559	19.307	ug/l	100
74) n-propylbenzene	13.029	91	256755	18.969	ug/l	100
75) 2-Chlorotoluene	13.123	91	162370	19.217	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	177449	18.987	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	24753	18.653	ug/l	100
78) 4-Chlorotoluene	13.217	91	156935	18.576	ug/l	100
79) tert-butylbenzene	13.435	119	152667	19.073	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	180860	18.949	ug/l	100
81) sec-Butylbenzene	13.612	105	213493	18.686	ug/l	100
82) p-Isopropyltoluene	13.723	119	175002	18.304	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	90643	18.311	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	89707	18.342	ug/l	100
85) n-Butylbenzene	14.053	91	153480	17.991	ug/l	100
86) Hexachloroethane	14.329	117	28629	18.313	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	86899	18.450	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11084	18.182	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	37802	17.609	ug/l	100
90) Hexachlorobutadiene	15.494	225	15432	17.847	ug/l	100
91) Naphthalene	15.635	128	135497	17.630	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	37802	17.609	ug/l	100

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

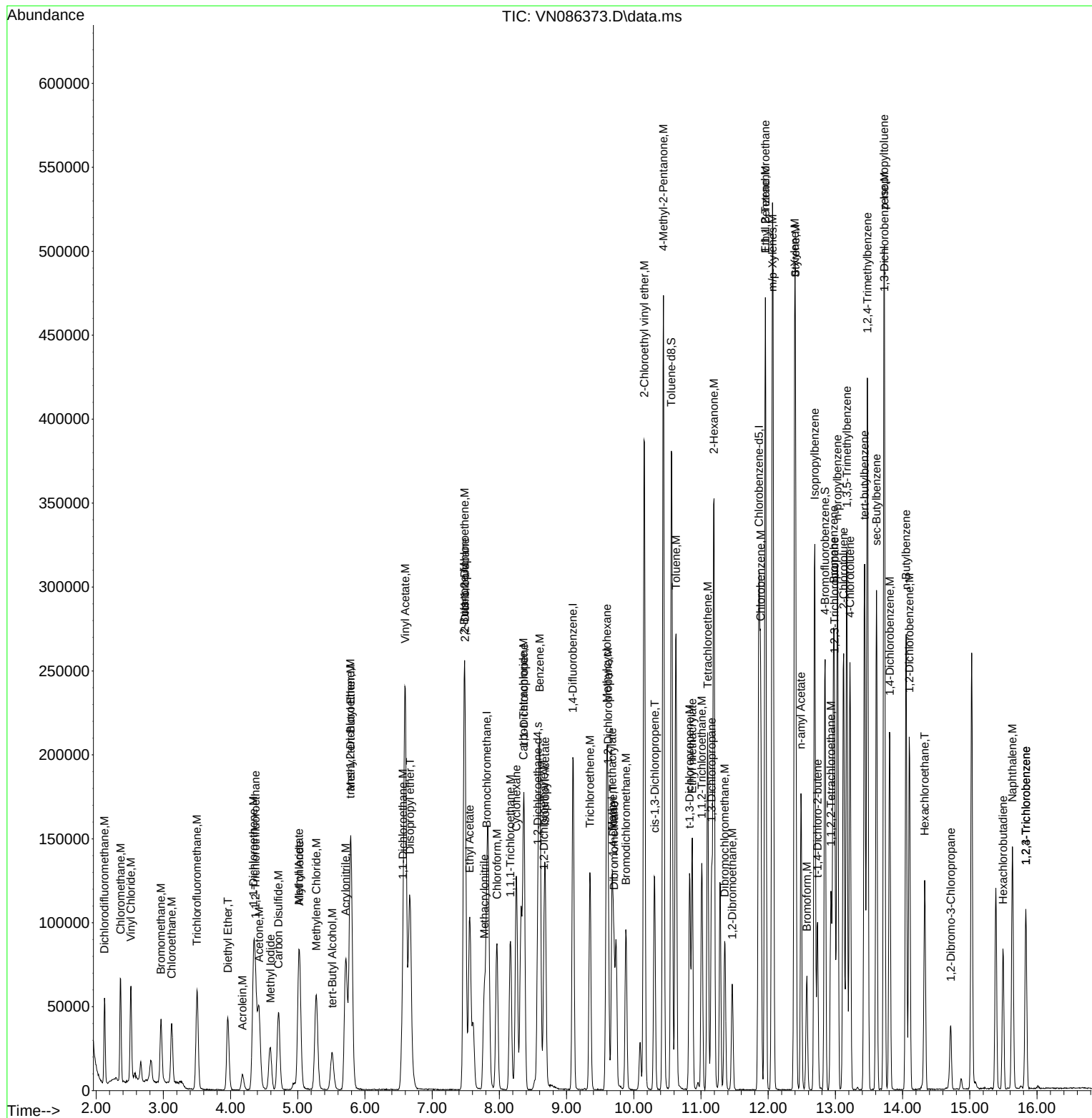
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Data File : VN086373.D  
Acq On    : 23 Apr 2025   09:45  
Operator  : JC\MD  
Sample    : VSTDICCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3      Sample Multiplier: 1
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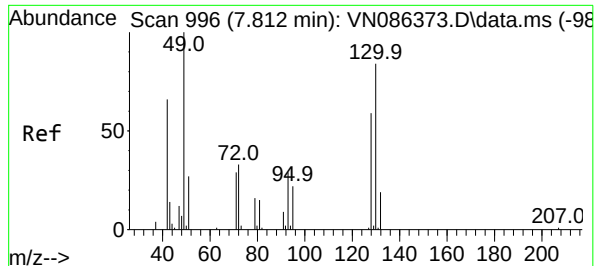
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

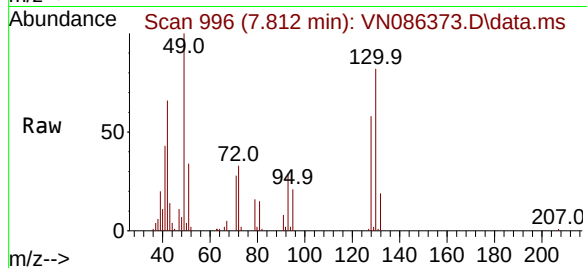
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 03:57:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

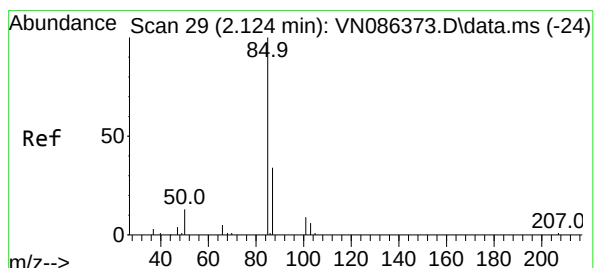
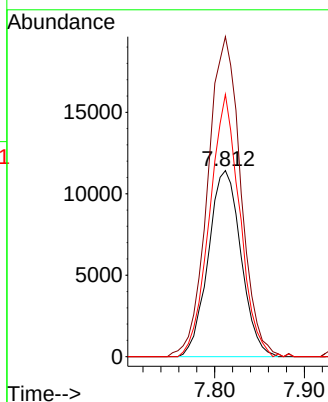
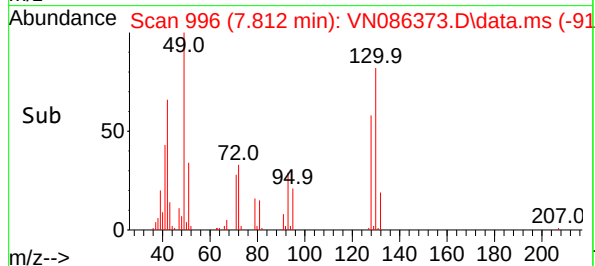
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 128 Resp: 2889
Ion Ratio Lower Upper
128 100
49 173.5 0.0 433.8
130 130.0 0.0 325.0

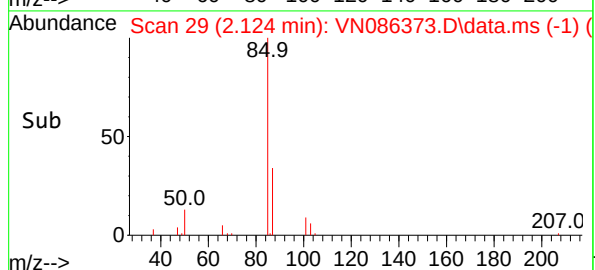
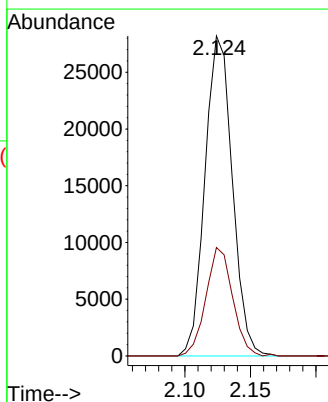
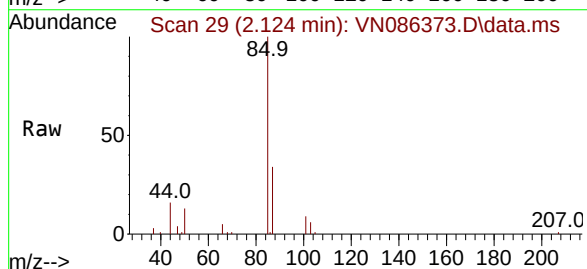
Manual Integrations
APPROVED

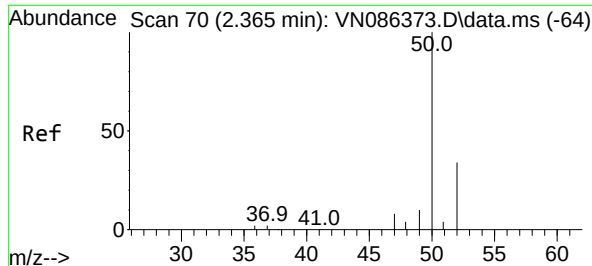
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 20.534 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 85 Resp: 40965
Ion Ratio Lower Upper
85 100
87 33.9 17.0 50.9





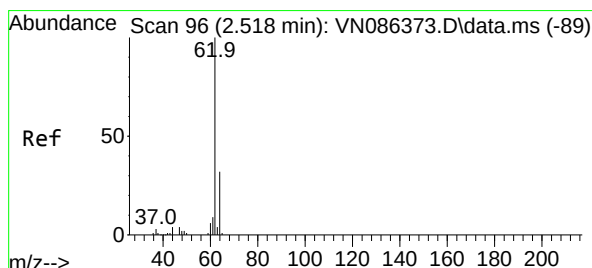
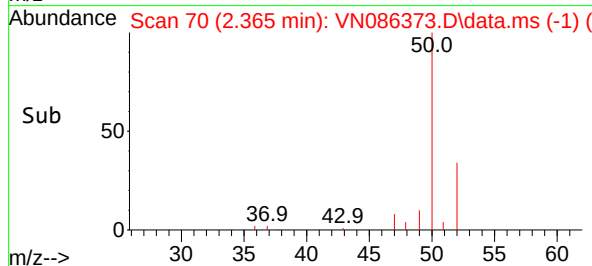
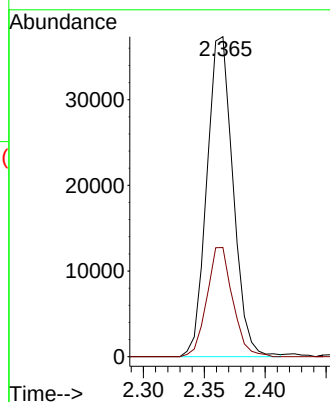
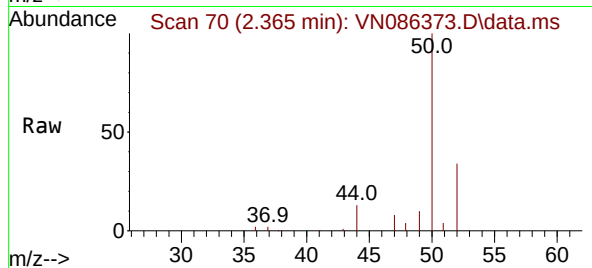
#3
Chloromethane
Concen: 19.741 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 50 Resp: 5594
Ion Ratio Lower Upper
50 100
52 34.1 27.3 40.9

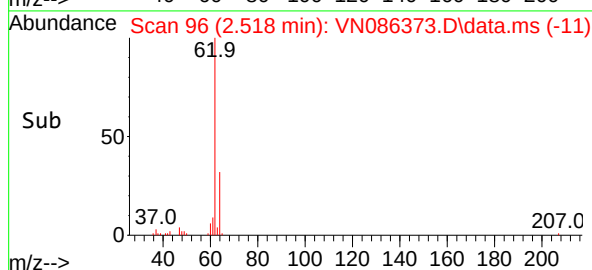
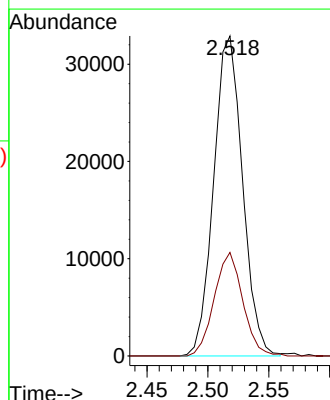
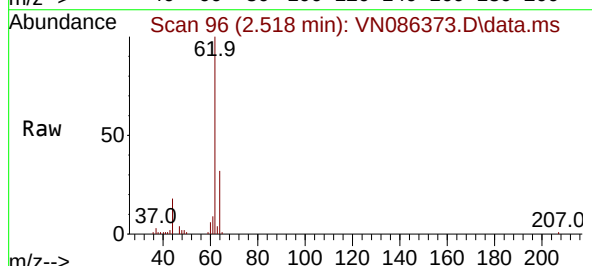
Manual Integrations
APPROVED

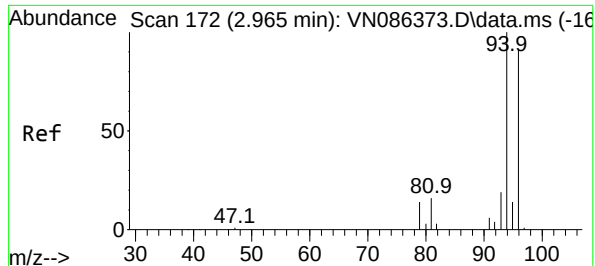
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 19.993 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

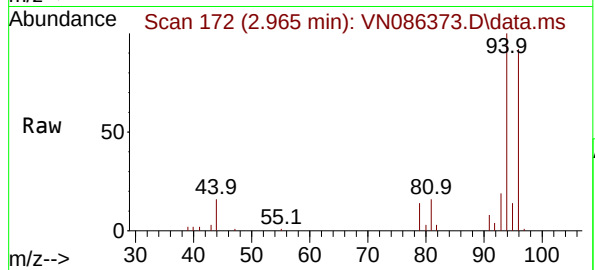
Tgt Ion: 62 Resp: 54265
Ion Ratio Lower Upper
62 100
64 32.3 25.8 38.8





#5
Bromomethane
Concen: 20.401 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

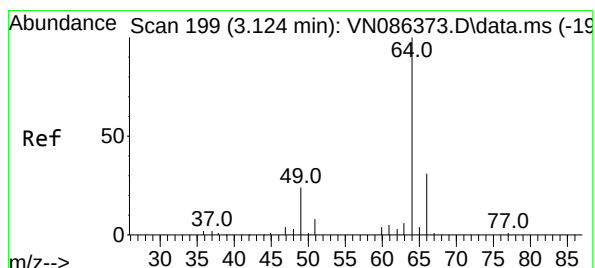
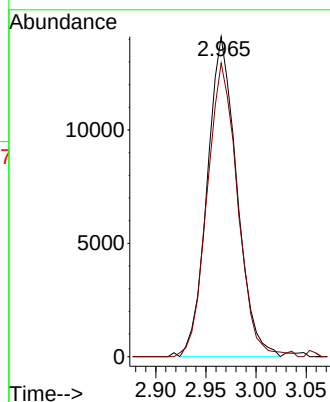
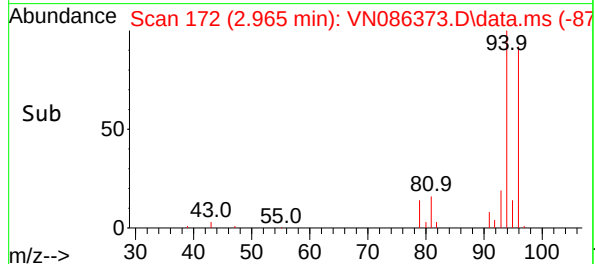
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 94 Resp: 28909
Ion Ratio Lower Upper
94 100
96 90.5 72.4 108.6

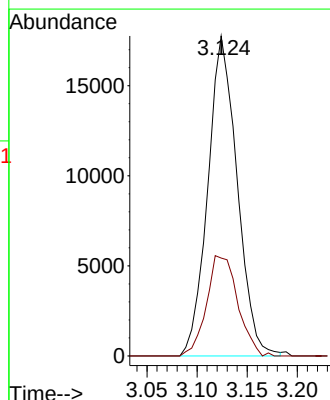
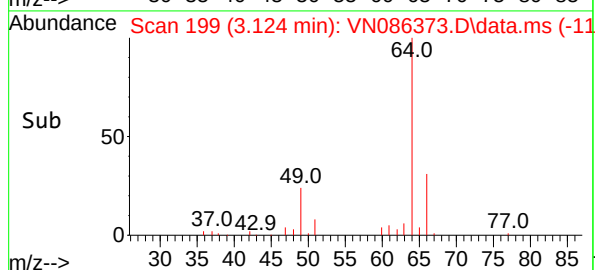
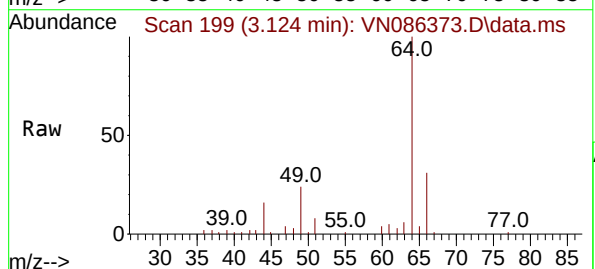
Manual Integrations
APPROVED

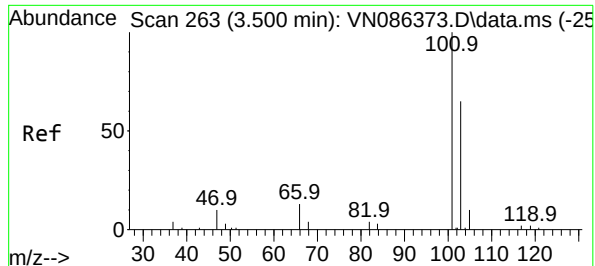
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 19.998 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

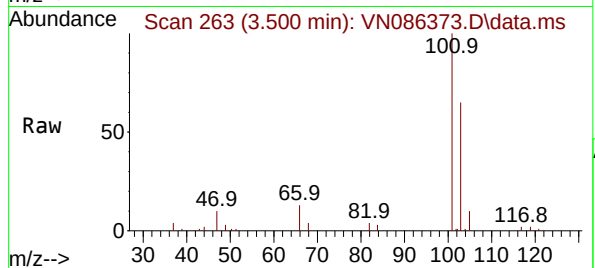
Tgt Ion: 64 Resp: 36185
Ion Ratio Lower Upper
64 100
66 30.6 24.5 36.7





#7
Trichlorofluoromethane
Concen: 20.464 ug/l
RT: 3.500 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

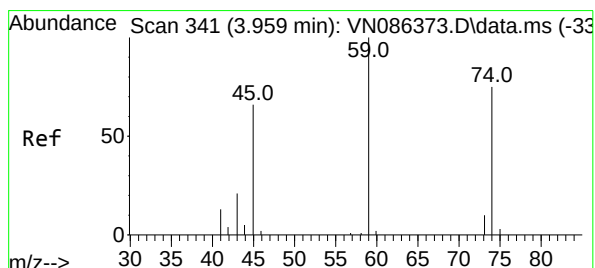
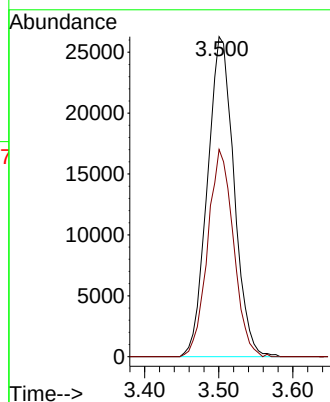
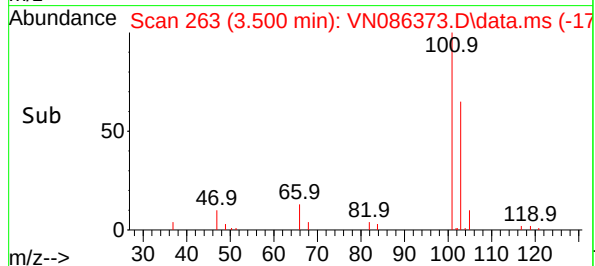
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:101 Resp: 65562
Ion Ratio Lower Upper
101 100
103 64.7 51.8 77.6

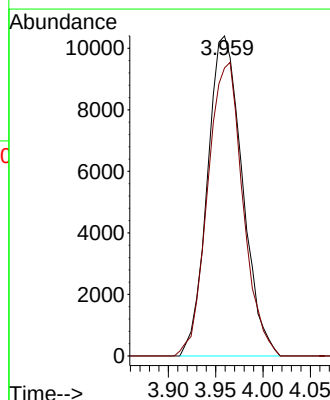
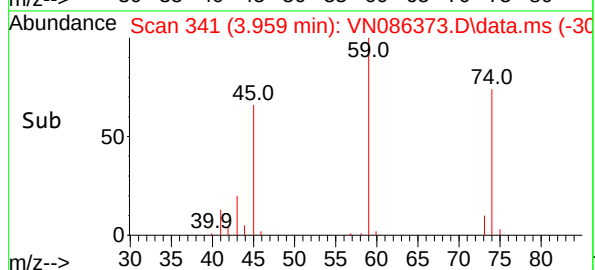
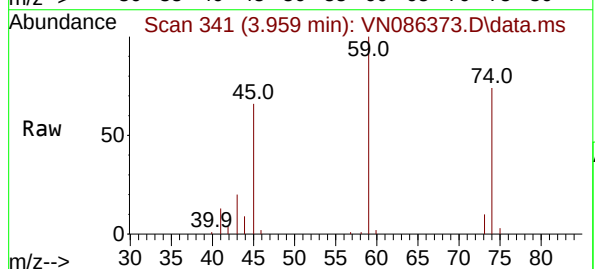
Manual Integrations
APPROVED

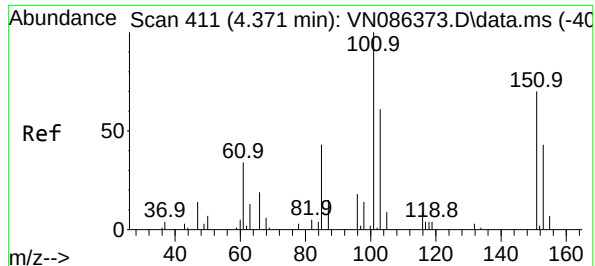
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 19.723 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 74 Resp: 26673
Ion Ratio Lower Upper
74 100
45 92.4 18.5 166.3





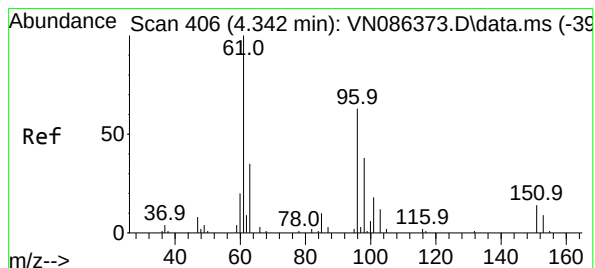
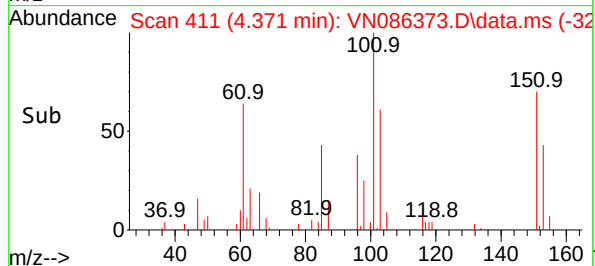
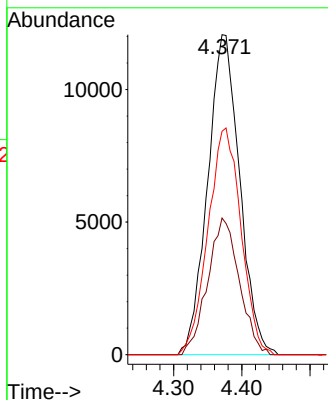
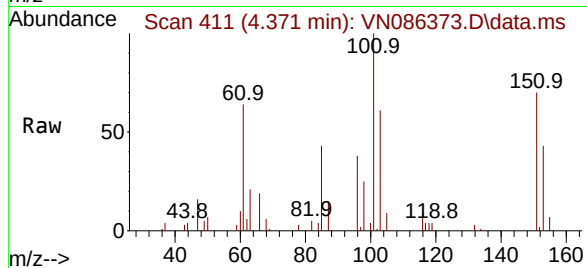
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.028 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:101 Resp: 3944
Ion Ratio Lower Upper
101 100
85 42.2 0.0 84.4
151 72.9 0.0 145.8

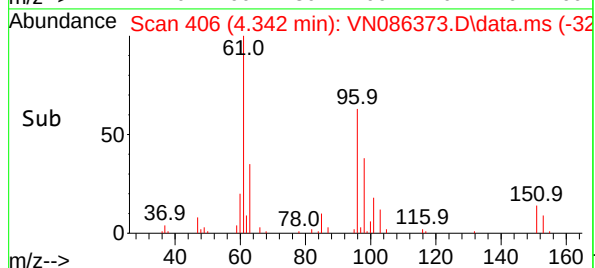
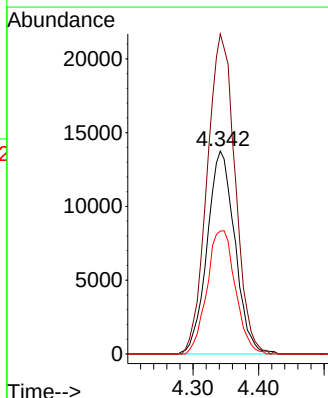
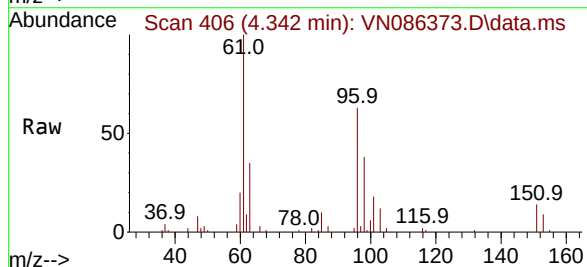
Manual Integrations
APPROVED

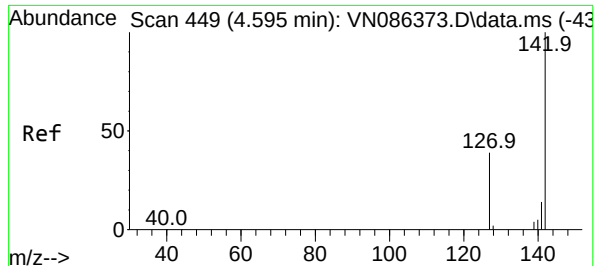
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 20.024 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 96 Resp: 40368
Ion Ratio Lower Upper
96 100
61 157.8 126.2 189.4
98 60.6 48.5 72.7





#11

Methyl Iodide

Concen: 19.800 ug/l

RT: 4.595 min Scan# 449

Delta R.T. 0.000 min

Lab File: VN086373.D

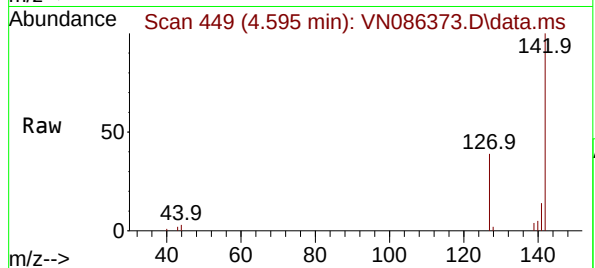
Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion:142 Resp: 4670

Ion Ratio Lower Upper

142 100

127 38.6 19.3 57.9

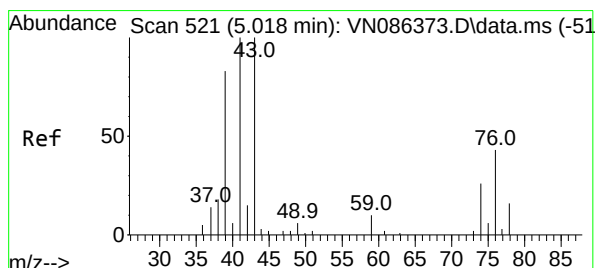
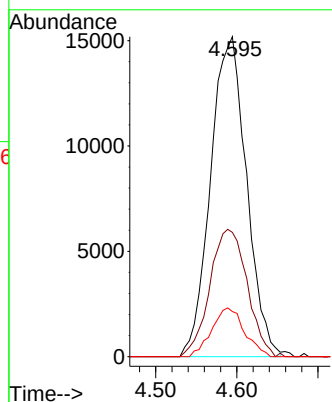
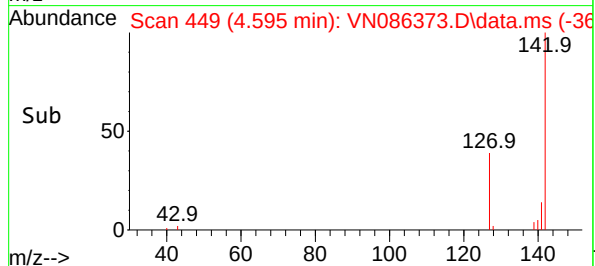
141 14.2 7.1 21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 20.256 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086373.D

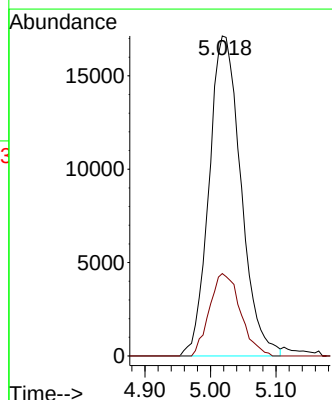
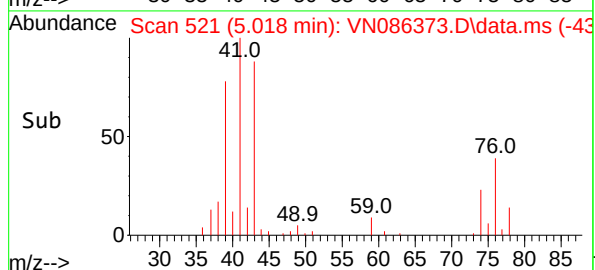
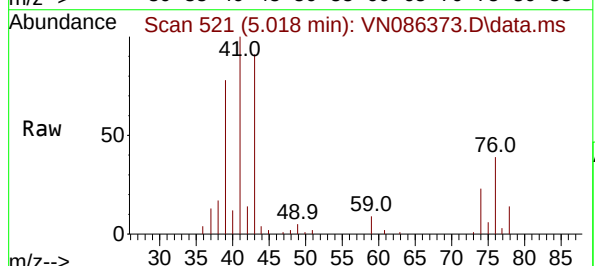
Acq: 23 Apr 2025 09:45

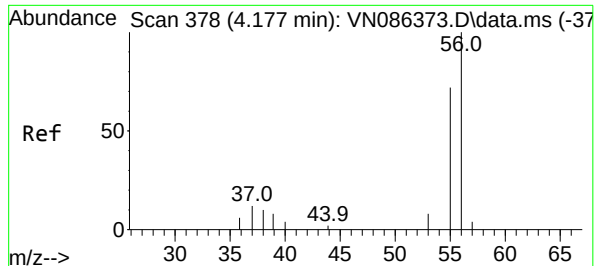
Tgt Ion: 43 Resp: 57880

Ion Ratio Lower Upper

43 100

74 26.0 20.8 31.2





#13

Acrolein

Concen: 83.896 ug/l m

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 12298

Ion Ratio Lower Upper

56 100

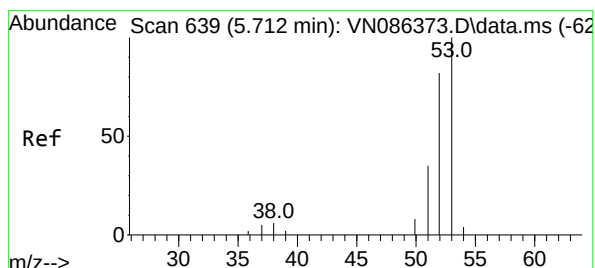
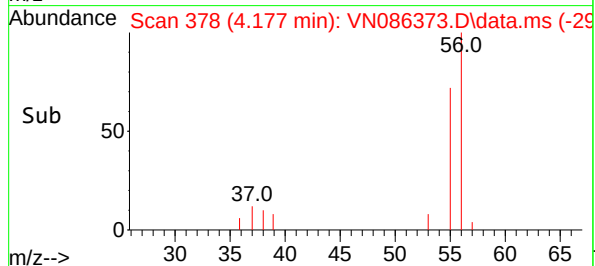
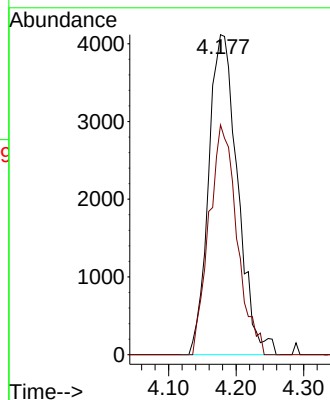
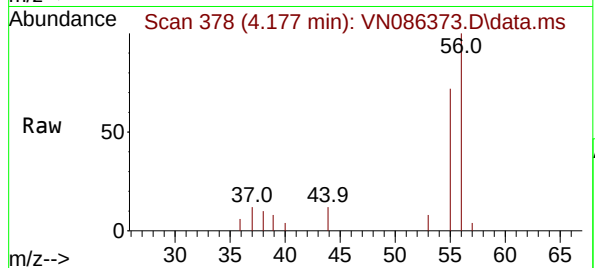
55 68.9 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 100.220 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

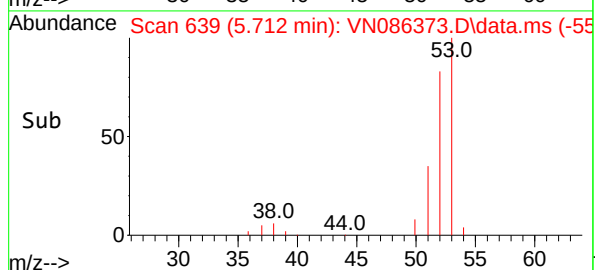
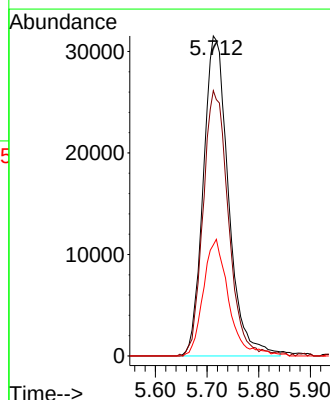
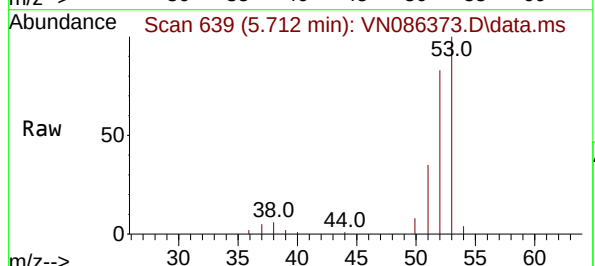
Tgt Ion: 53 Resp: 106580

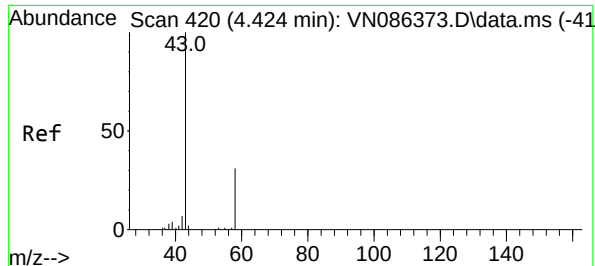
Ion Ratio Lower Upper

53 100

52 82.4 41.2 123.6

51 35.2 17.6 52.8





#15

Acetone

Concen: 91.547 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 58 Resp: 2682

Ion Ratio Lower Upper

58 100

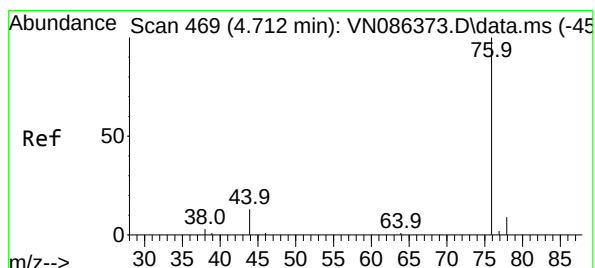
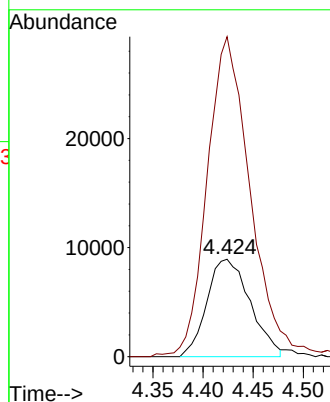
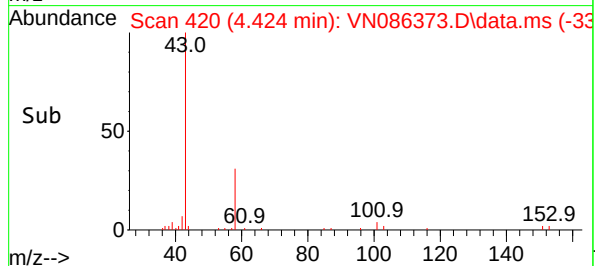
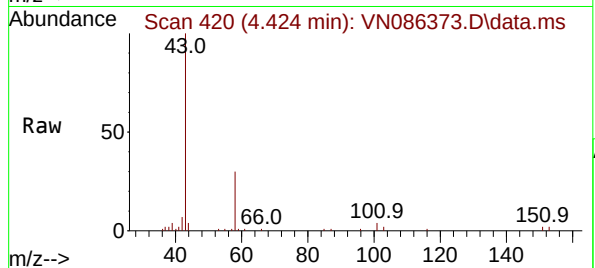
43 318.9 255.1 382.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 20.323 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086373.D

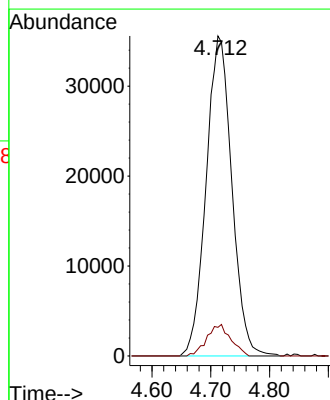
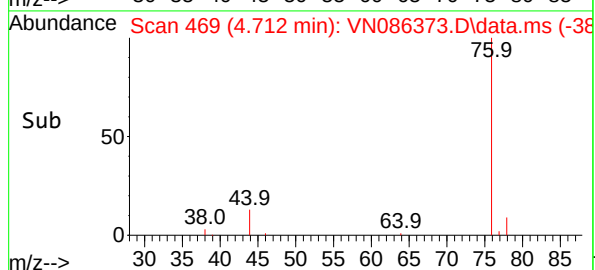
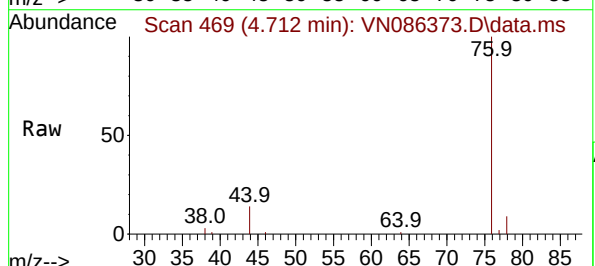
Acq: 23 Apr 2025 09:45

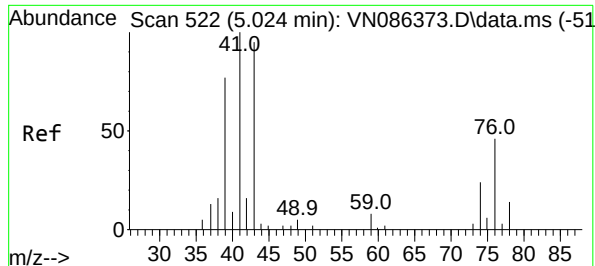
Tgt Ion: 76 Resp: 107956

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7





#17

Allyl chloride

Concen: 19.442 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 6267

Ion Ratio Lower Upper

41 100

39 73.4 36.7 110.1

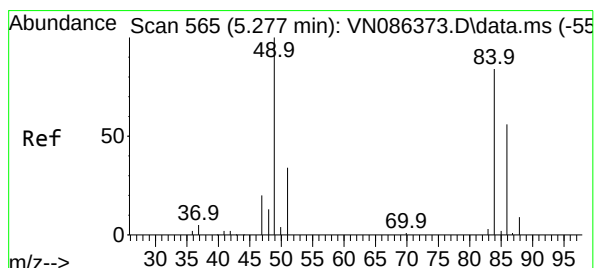
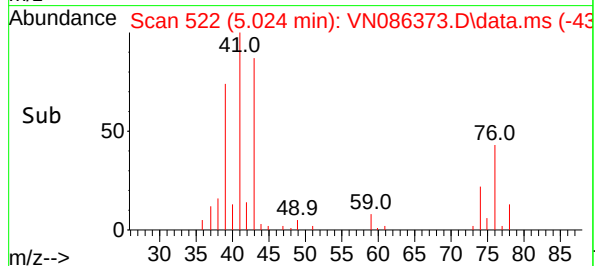
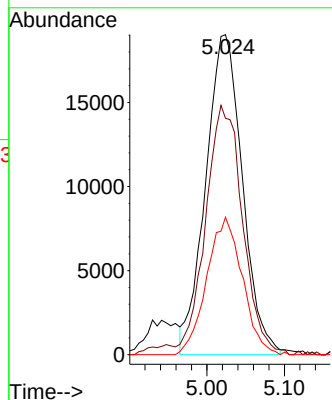
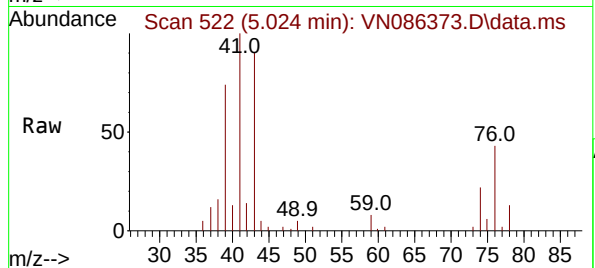
76 43.6 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 19.957 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 84 Resp: 45816

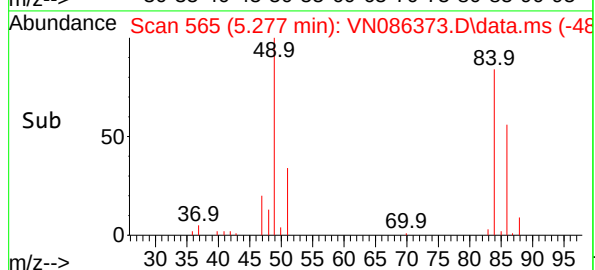
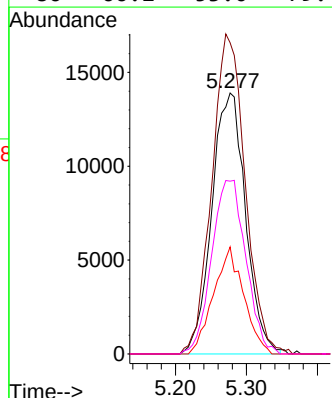
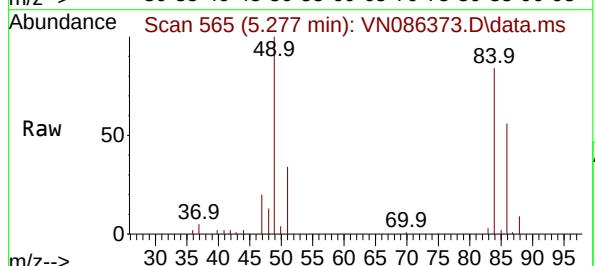
Ion Ratio Lower Upper

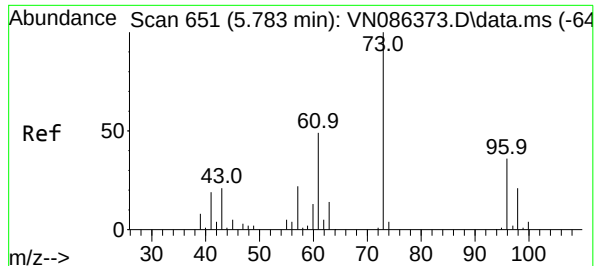
84 100

49 119.2 95.4 143.0

51 41.0 32.8 49.2

86 66.2 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 19.728 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 96 Resp: 42390

Ion Ratio Lower Upper

96 100

61 134.1 107.3 160.9

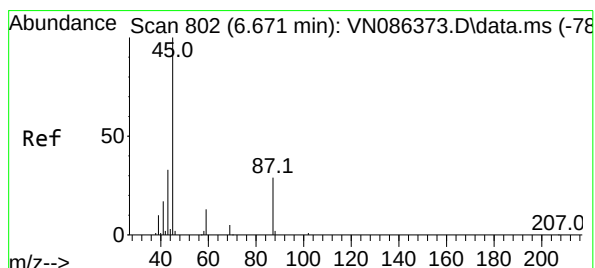
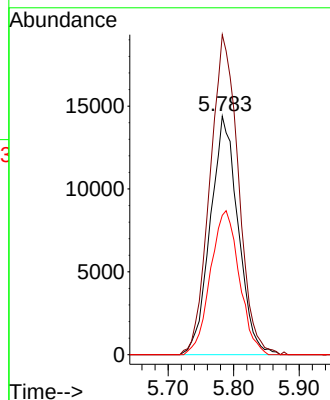
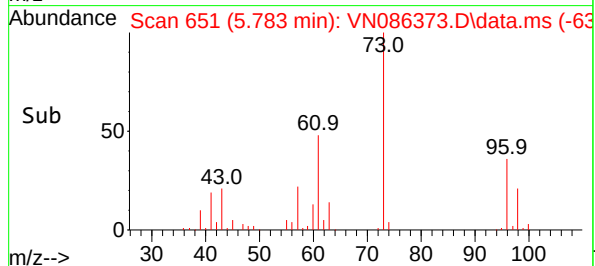
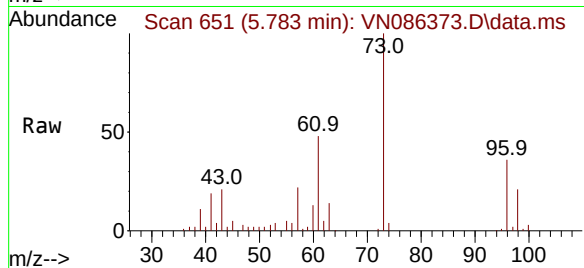
98 58.4 46.7 70.1

Manual Integrations

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Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 19.655 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 45 Resp: 150643

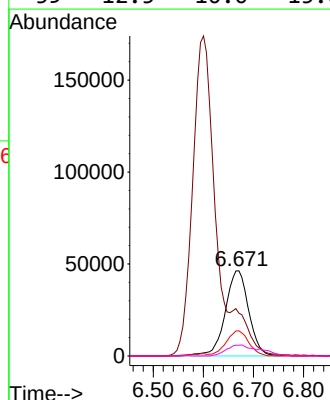
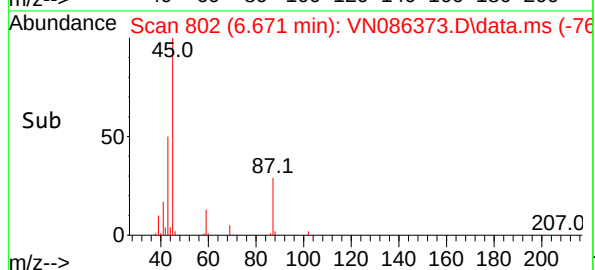
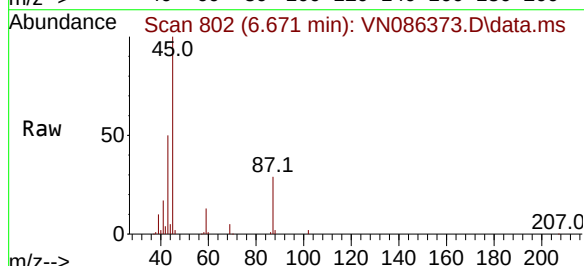
Ion Ratio Lower Upper

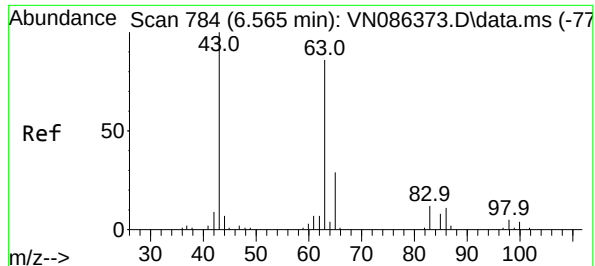
45 100

43 48.5 38.8 58.2

87 29.4 23.5 35.3

59 12.5 10.0 15.0





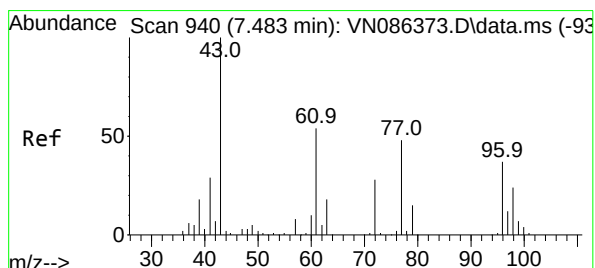
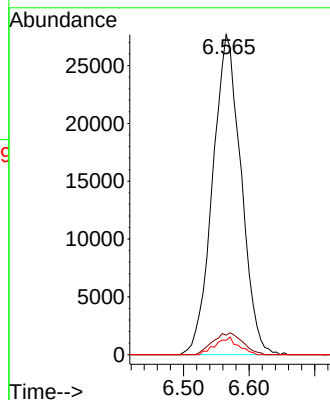
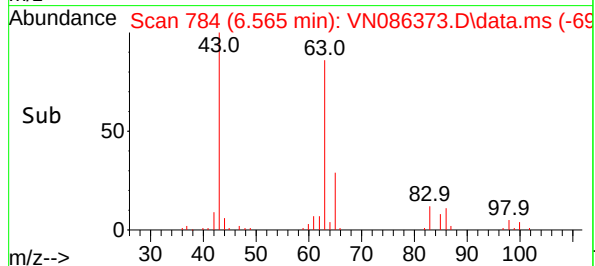
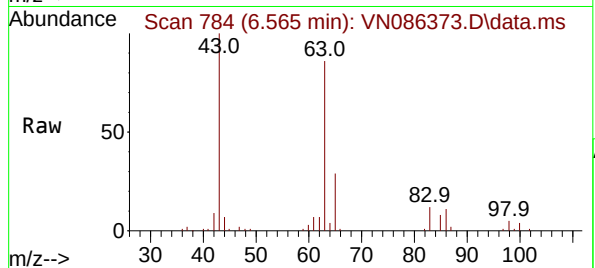
#21
1,1-Dichloroethane
Concen: 19.857 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 63 Resp: 8330
Ion Ratio Lower Upper
63 100
98 6.1 3.0 9.2
100 4.5 2.3 6.8

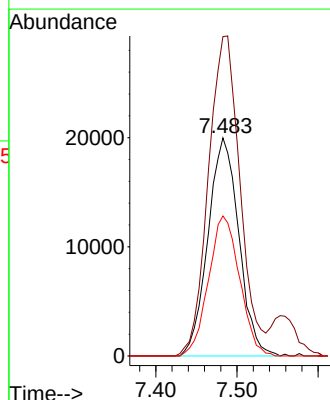
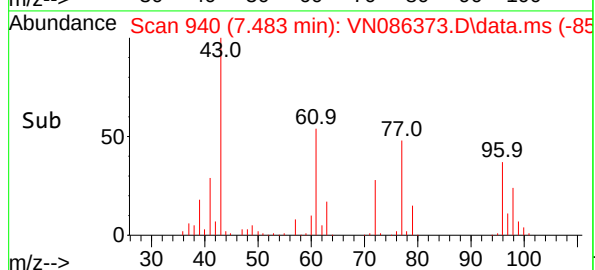
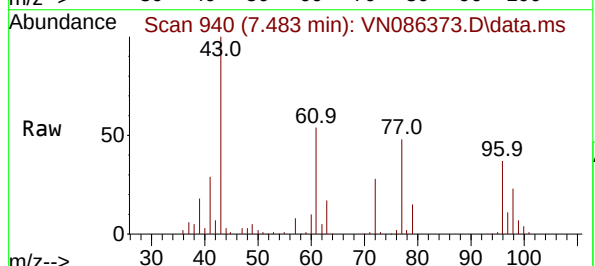
Manual Integrations
APPROVED

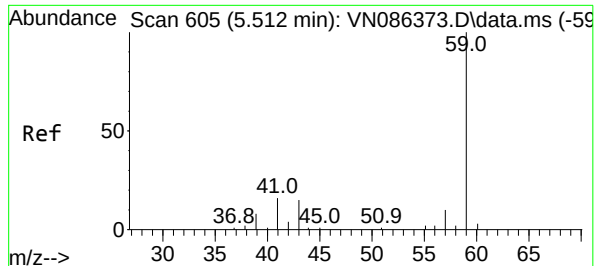
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 19.635 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 96 Resp: 52755
Ion Ratio Lower Upper
96 100
61 150.8 120.6 181.0
98 64.7 51.8 77.6





#23

tert-Butyl Alcohol

Concen: 106.266 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 59 Resp: 43778

Ion Ratio Lower Upper

59 100

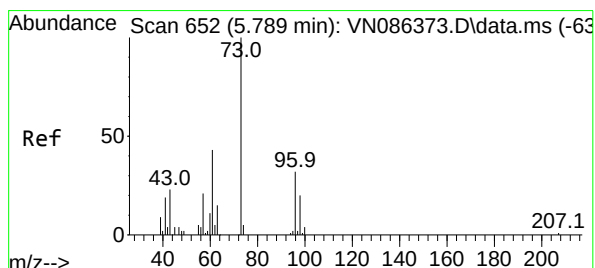
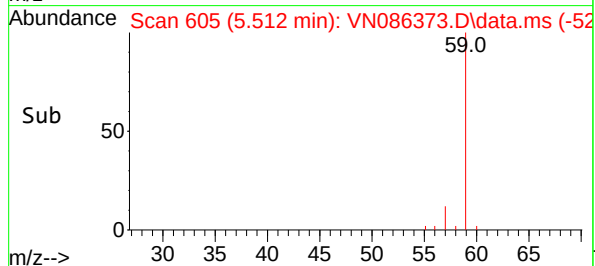
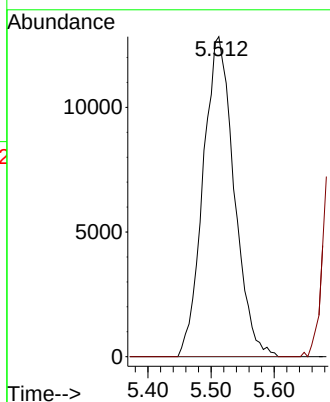
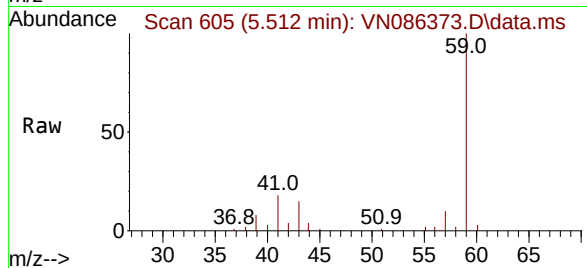
52 0.1 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#24

Methyl tert-Butyl Ether

Concen: 19.943 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086373.D

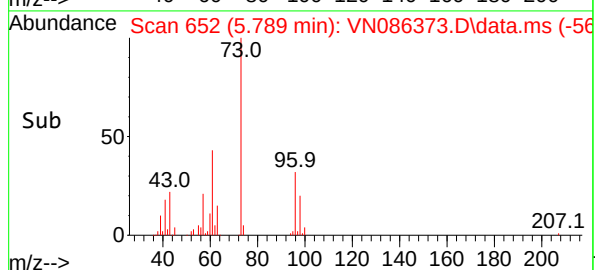
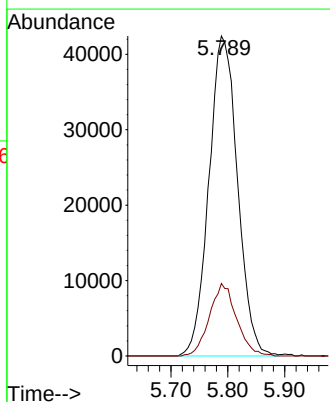
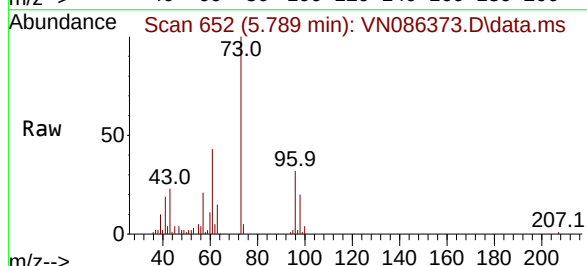
Acq: 23 Apr 2025 09:45

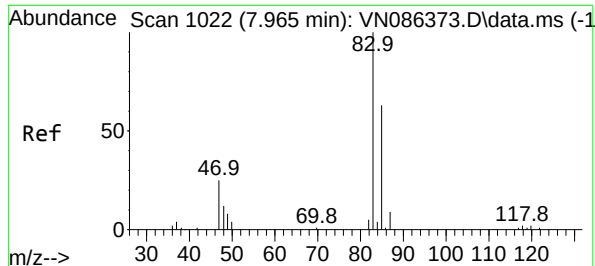
Tgt Ion: 73 Resp: 148542

Ion Ratio Lower Upper

73 100

43 21.4 17.1 25.7





#25

Chloroform

Concen: 20.241 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 8594

Ion Ratio Lower Upper

83 100

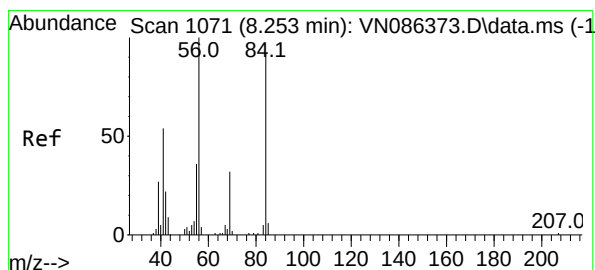
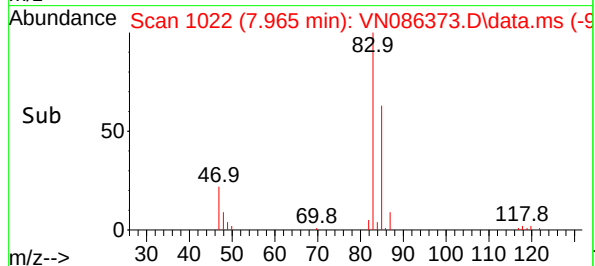
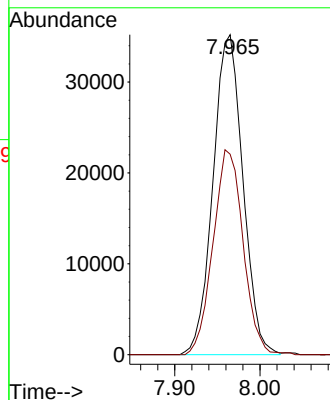
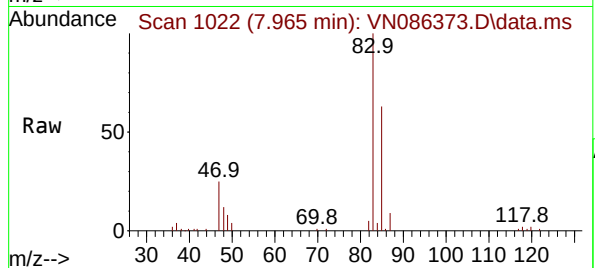
85 62.7 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 19.641 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

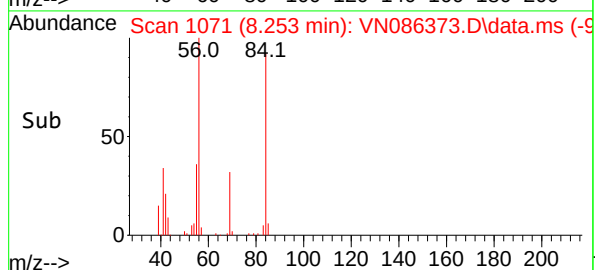
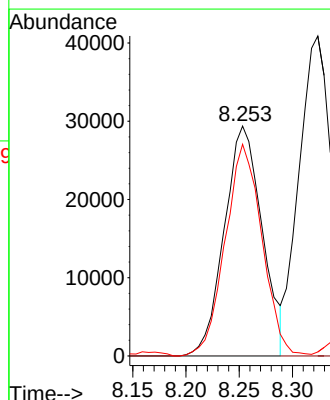
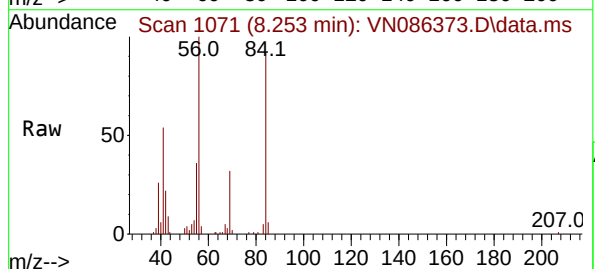
Tgt Ion: 56 Resp: 72755

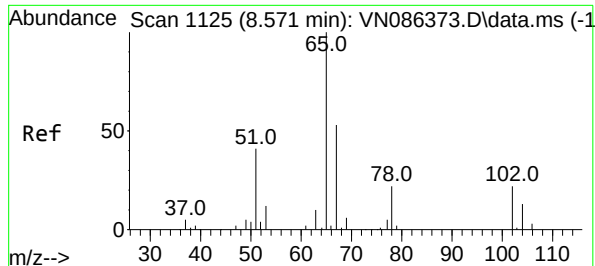
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

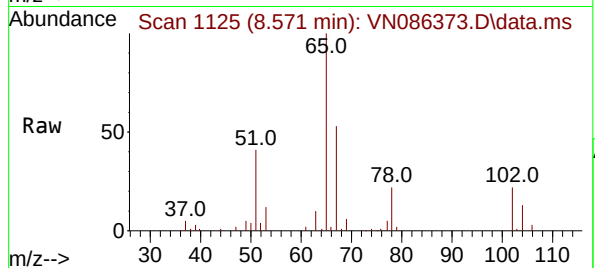
84 89.4 71.5 107.3





#27
1,2-Dichloroethane-d4
Concen: 30.895 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

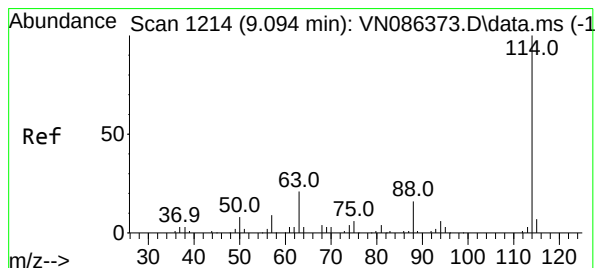
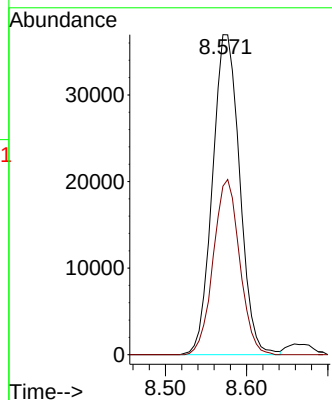
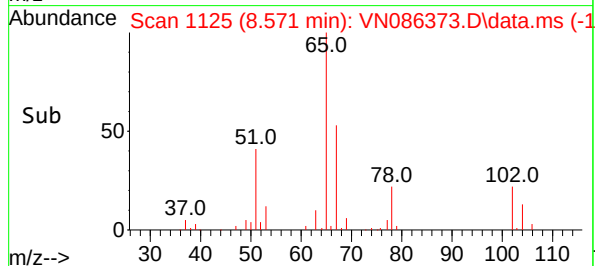
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 65 Resp: 86075
Ion Ratio Lower Upper
65 100
67 53.1 42.5 63.7

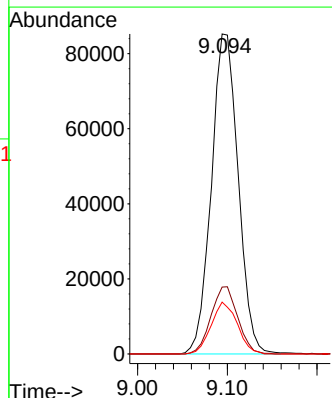
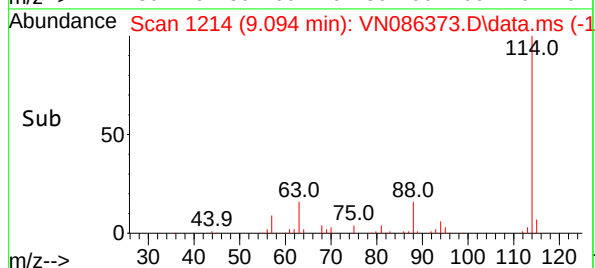
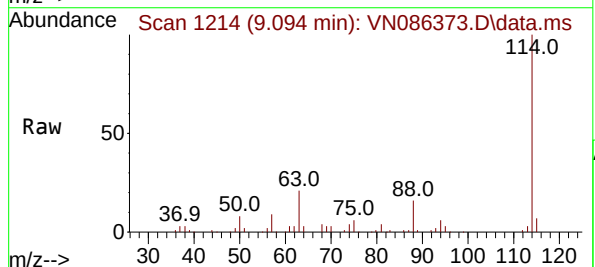
Manual Integrations
APPROVED

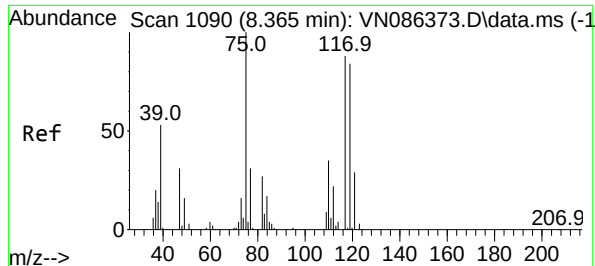
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:114 Resp: 176907
Ion Ratio Lower Upper
114 100
63 20.9 16.7 25.1
88 15.8 12.6 19.0





#29

1,1-Dichloropropene

Concen: 19.126 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

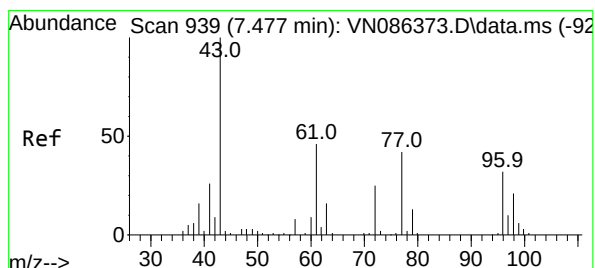
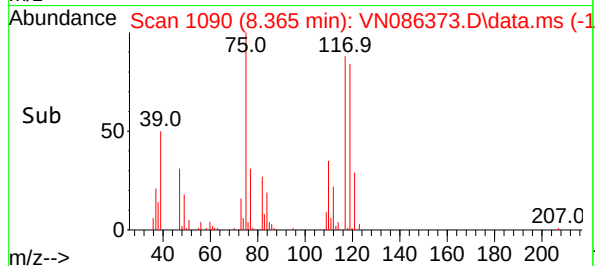
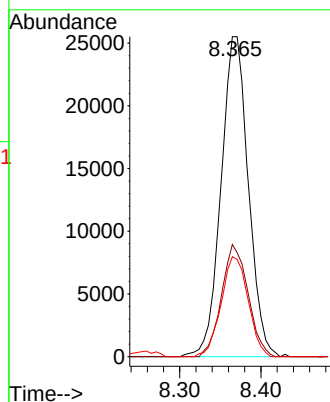
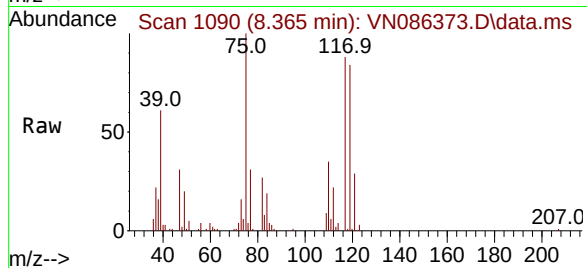
Tgt Ion:	75	Resp:	5964
Ion Ratio	Lower	Upper	
75	100		
110	34.0	0.0	68.0
77	30.7	0.0	61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 96.376 ug/l

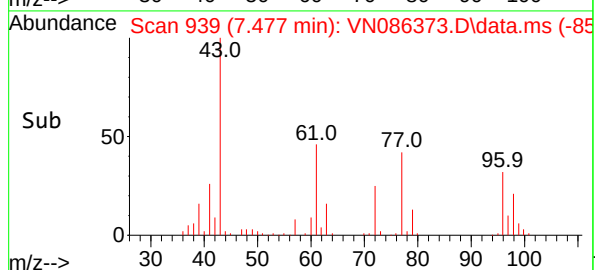
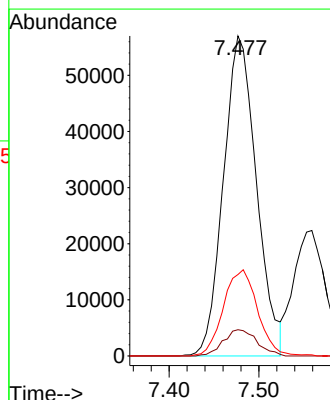
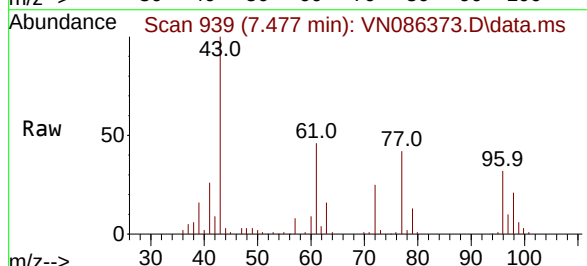
RT: 7.477 min Scan# 939

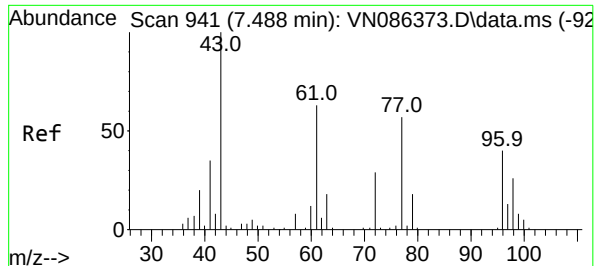
Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion:	43	Resp:	145888
Ion Ratio	Lower	Upper	
43	100		
57	8.3	6.6	10.0
72	27.8	22.2	33.4





#31

2,2-Dichloropropane

Concen: 19.370 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 77 Resp: 7765

Ion Ratio Lower Upper

77 100

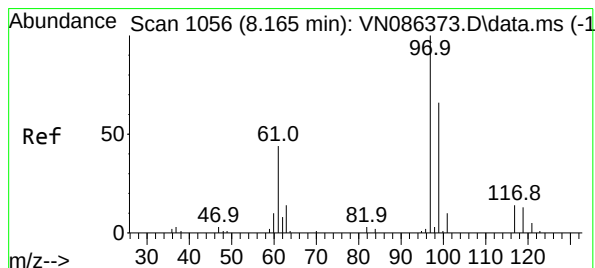
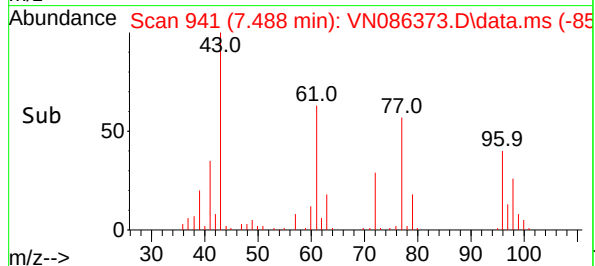
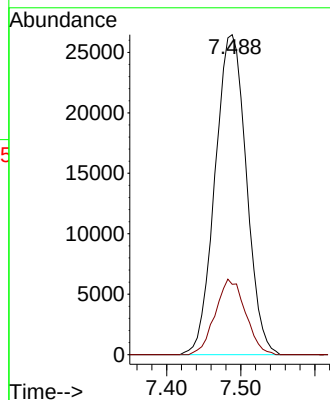
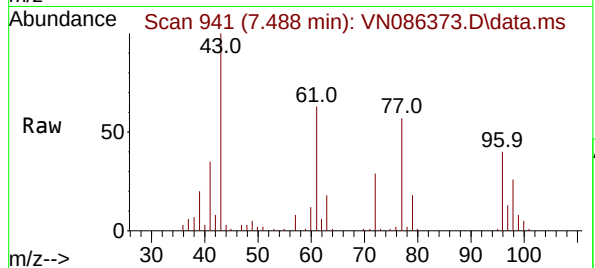
97 22.7 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#32

1,1,1-Trichloroethane

Concen: 19.409 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

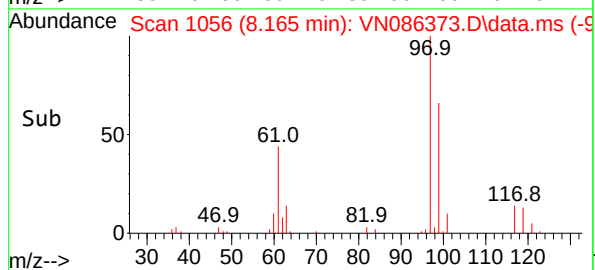
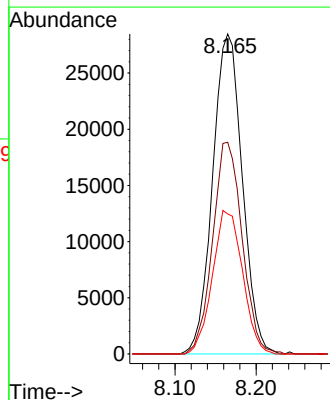
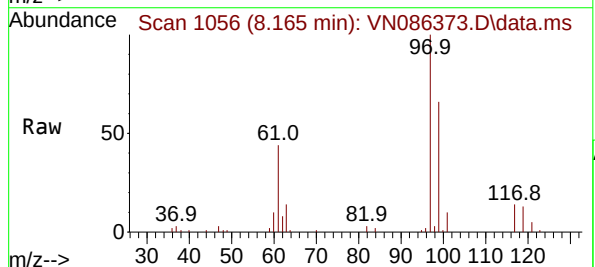
Tgt Ion: 97 Resp: 72334

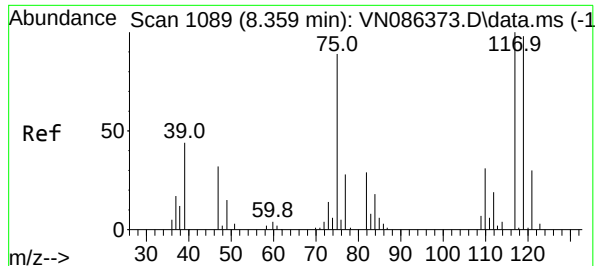
Ion Ratio Lower Upper

97 100

99 65.8 52.6 79.0

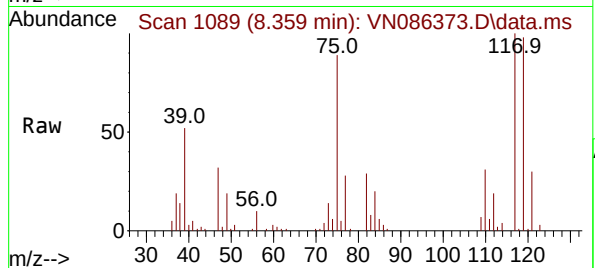
61 45.5 36.4 54.6





#33
Carbon Tetrachloride
Concen: 19.546 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

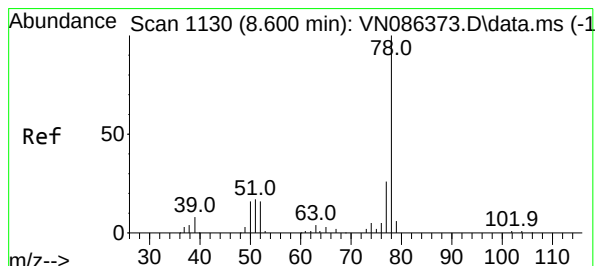
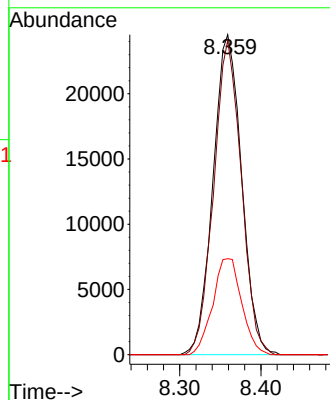
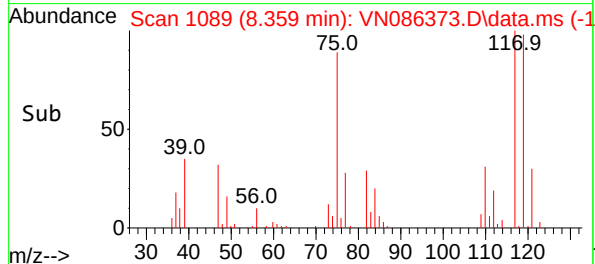
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 117 Resp: 5996
Ion Ratio Lower Upper
117 100
119 98.2 78.6 117.8
121 30.0 24.0 36.0

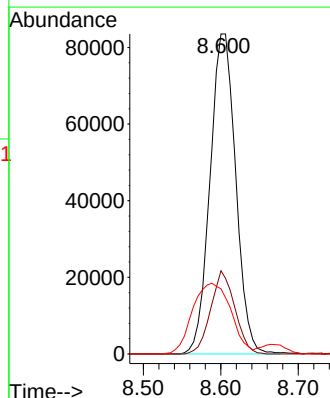
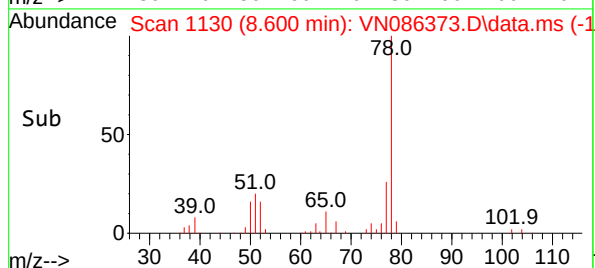
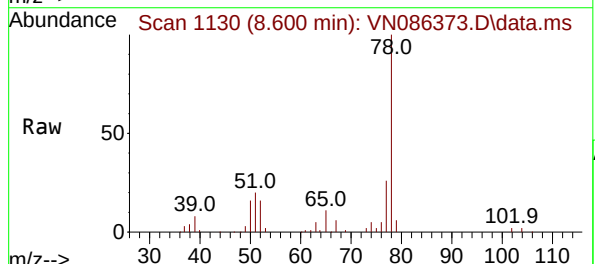
Manual Integrations
APPROVED

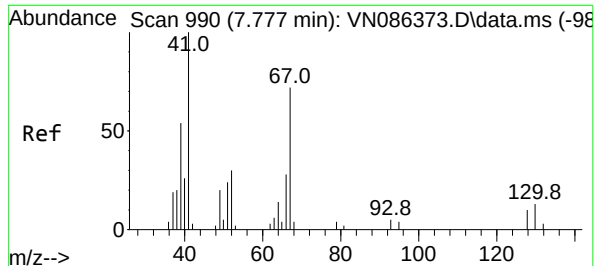
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 19.435 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 78 Resp: 192789
Ion Ratio Lower Upper
78 100
77 26.0 20.8 31.2
51 17.5 14.0 21.0





#35

Methacrylonitrile

Concen: 20.411 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 35249

Ion Ratio Lower Upper

41 100

39 53.9 27.0 80.8

67 71.5 35.8 107.3

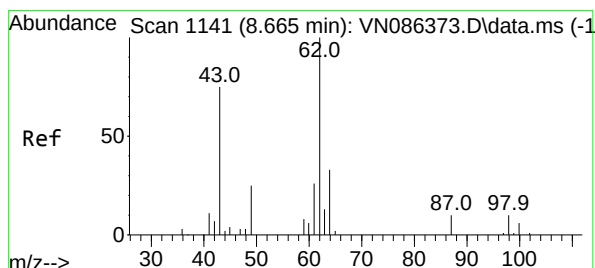
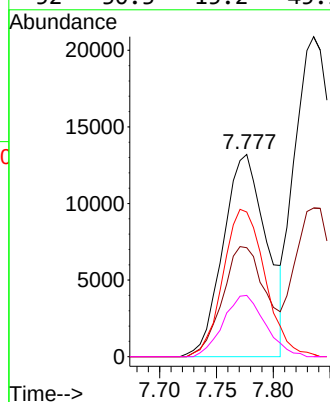
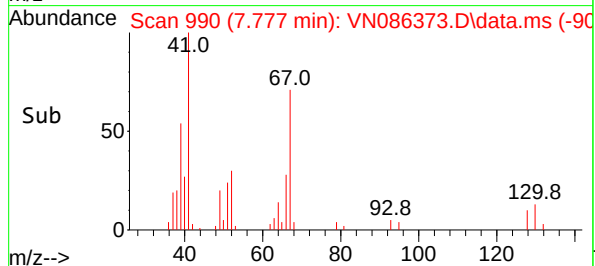
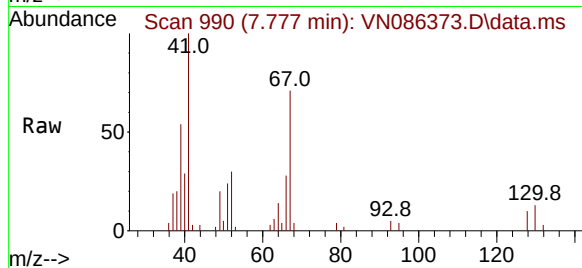
52 30.3 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 19.502 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN086373.D

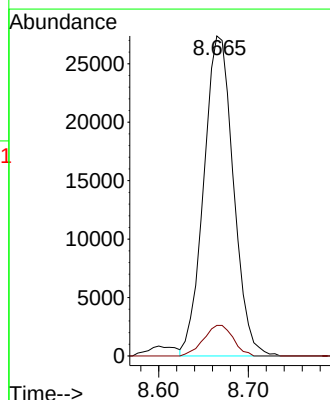
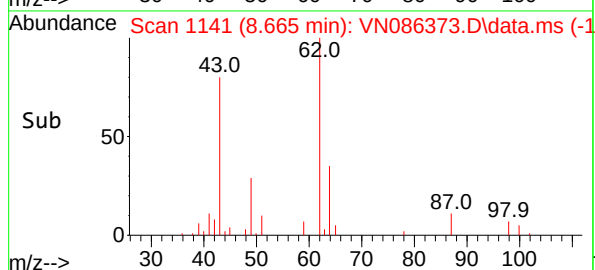
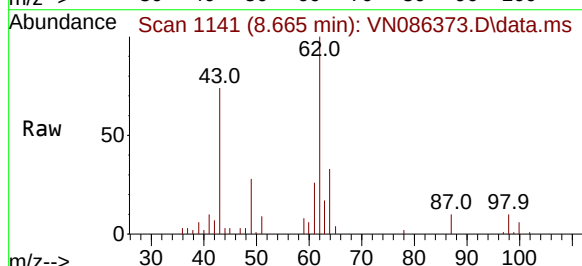
Acq: 23 Apr 2025 09:45

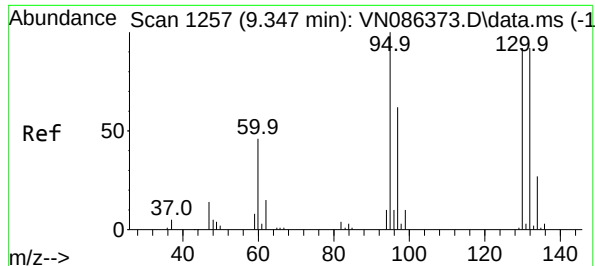
Tgt Ion: 62 Resp: 62808

Ion Ratio Lower Upper

62 100

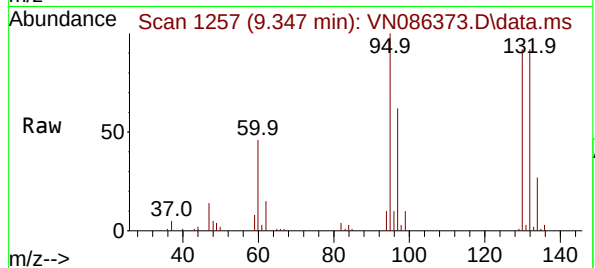
98 9.5 7.6 11.4





#37
Trichloroethene
Concen: 18.866 ug/l
RT: 9.347 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

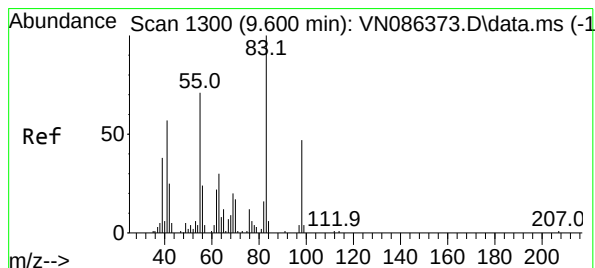
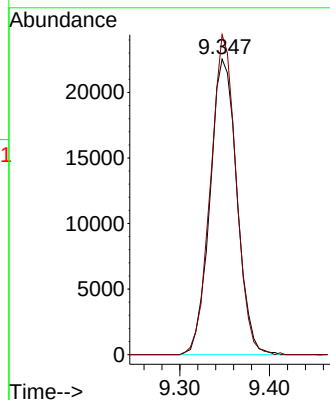
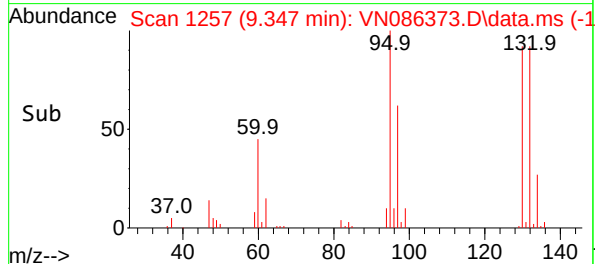
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



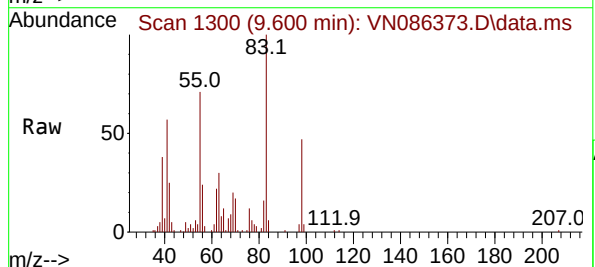
Tgt Ion:130 Resp: 46850
Ion Ratio Lower Upper
130 100
95 108.3 86.6 130.0

Manual Integrations
APPROVED

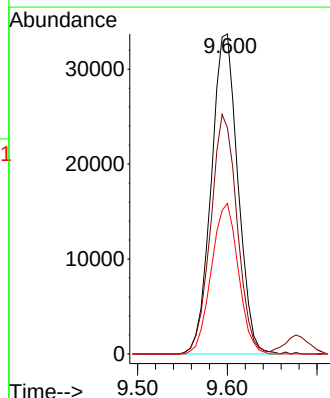
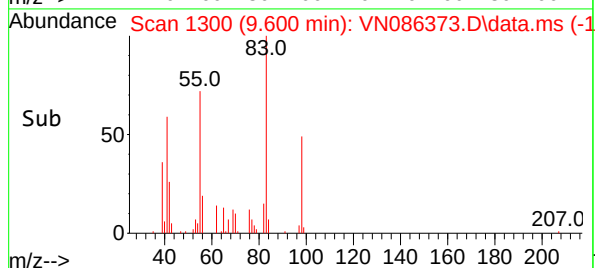
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

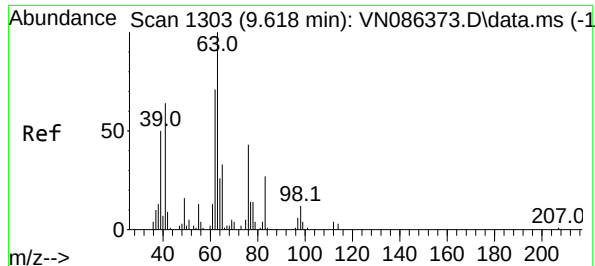


#38
Methylcyclohexane
Concen: 19.275 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



Tgt Ion: 83 Resp: 69428
Ion Ratio Lower Upper
83 100
55 74.6 37.3 111.9
98 47.7 23.8 71.5





#39

1,2-Dichloropropane

Concen: 19.340 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 47394

Ion Ratio Lower Upper

63 100

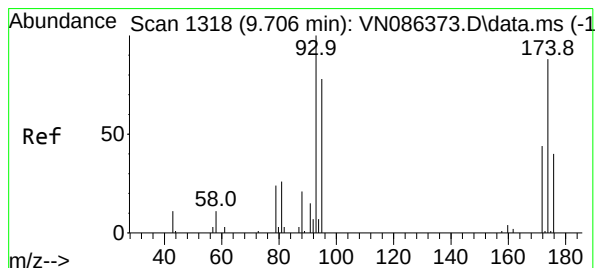
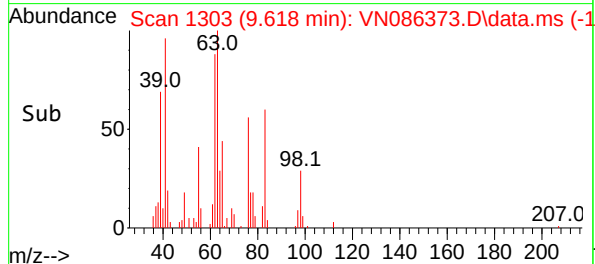
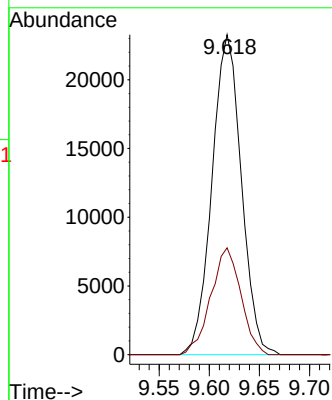
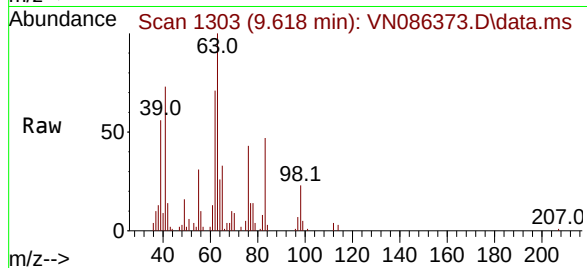
65 33.4 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 19.597 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

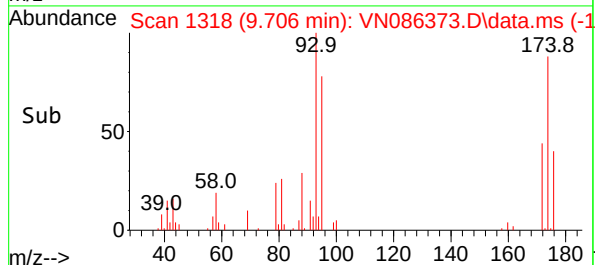
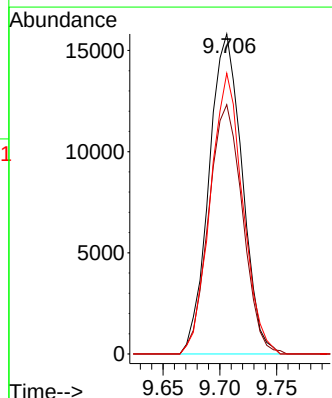
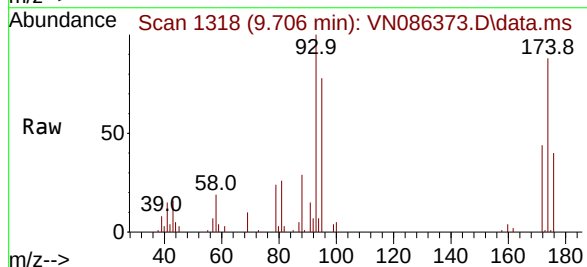
Tgt Ion: 93 Resp: 32116

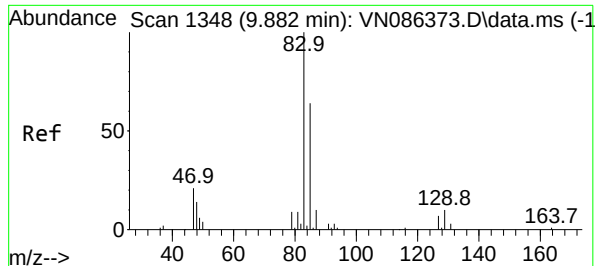
Ion Ratio Lower Upper

93 100

95 79.6 0.0 159.2

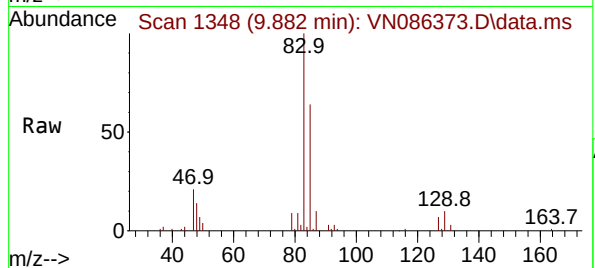
174 85.7 0.0 171.4





#41
Bromodichloromethane
Concen: 19.419 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

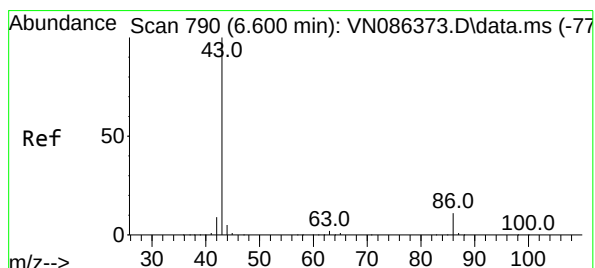
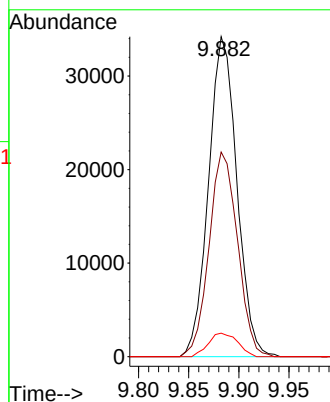
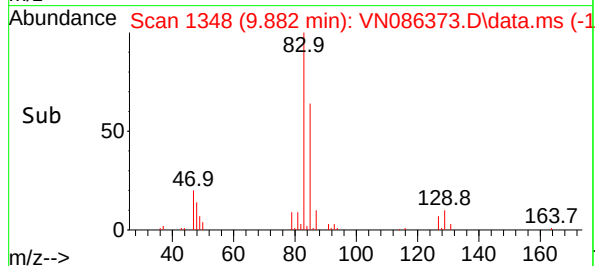
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 6734
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7
127 7.4 5.9 8.9

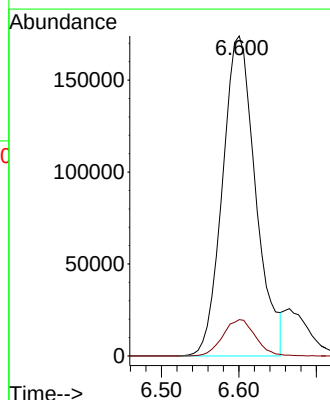
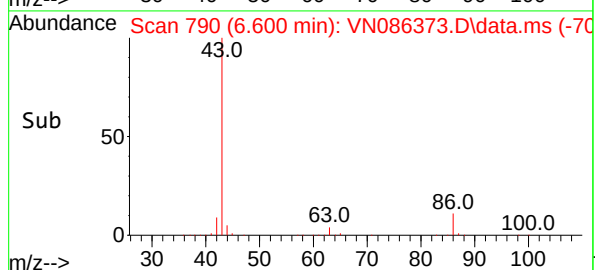
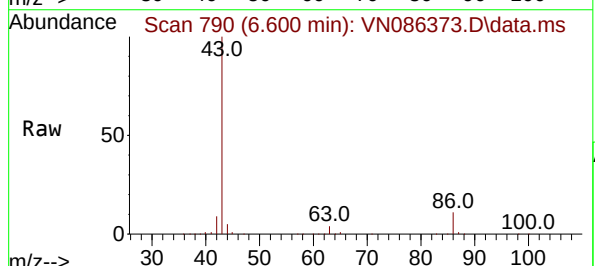
Manual Integrations
APPROVED

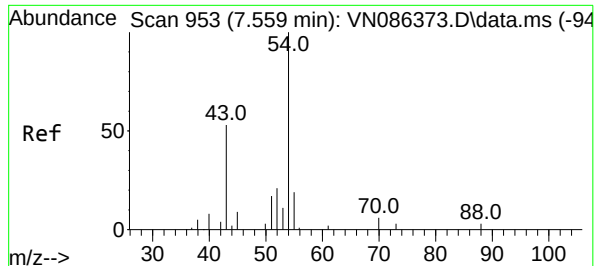
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 98.852 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 43 Resp: 518356
Ion Ratio Lower Upper
43 100
86 11.1 8.9 13.3





#43

Ethyl Acetate

Concen: 18.658 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 55894

Ion Ratio Lower Upper

43 100

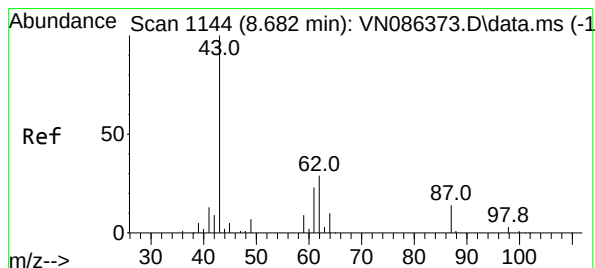
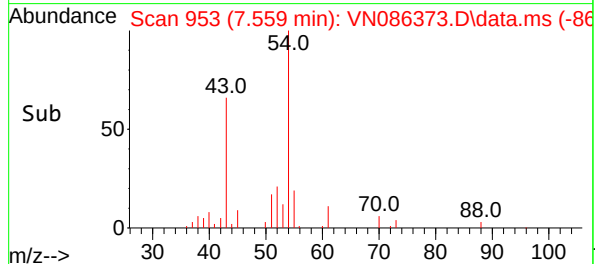
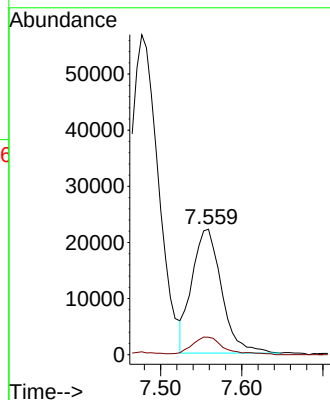
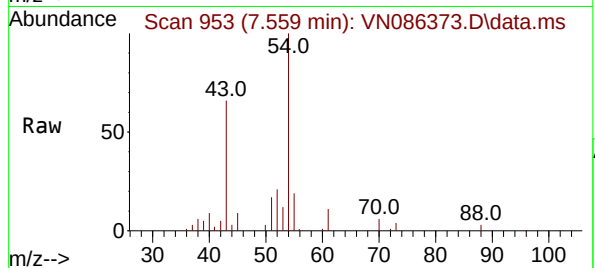
45 14.3 11.4 17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 19.334 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086373.D

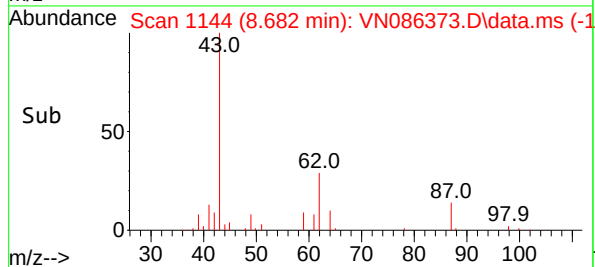
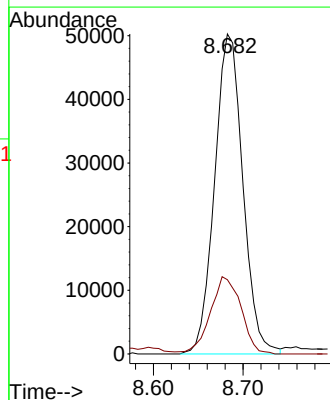
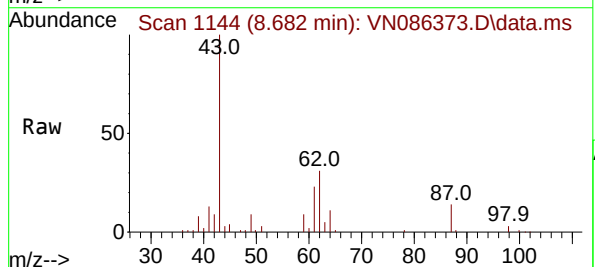
Acq: 23 Apr 2025 09:45

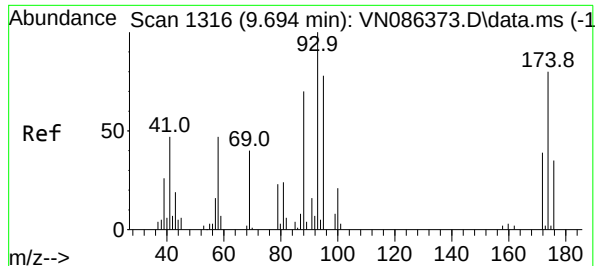
Tgt Ion: 43 Resp: 109922

Ion Ratio Lower Upper

43 100

61 26.2 21.0 31.4





#45

1,4-Dioxane

Concen: 405.300 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 17979

Ion Ratio Lower Upper

88 100

43 31.1 24.9 37.3

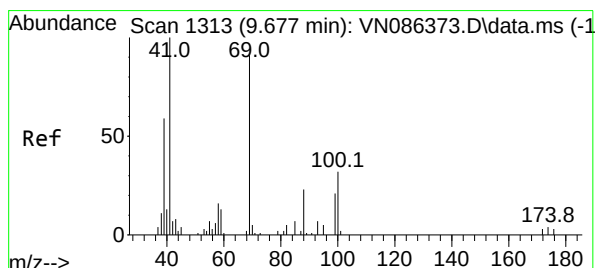
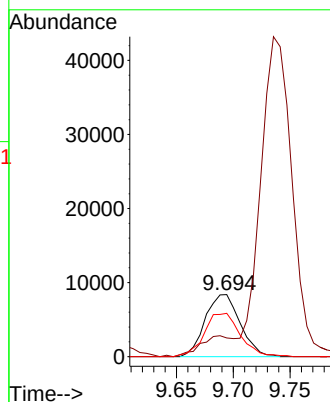
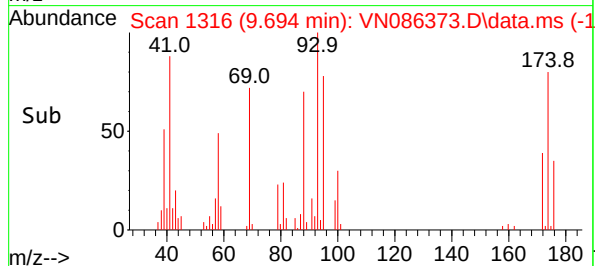
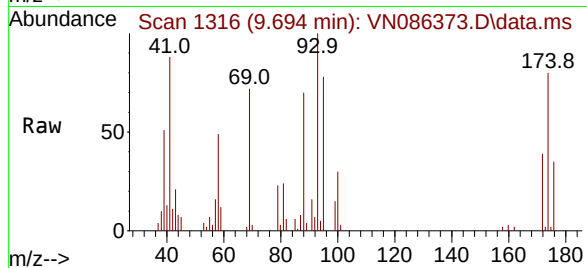
58 72.3 57.8 86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 19.367 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

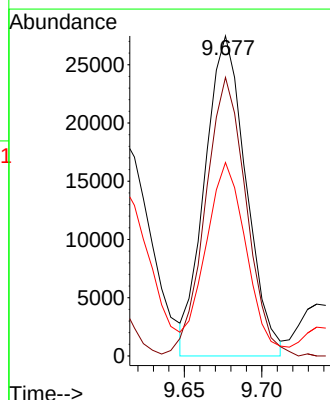
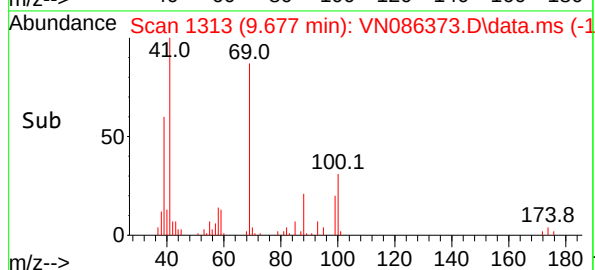
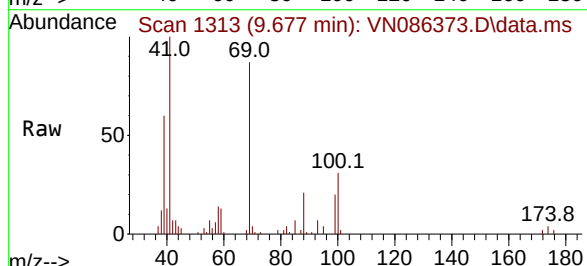
Tgt Ion: 41 Resp: 50790

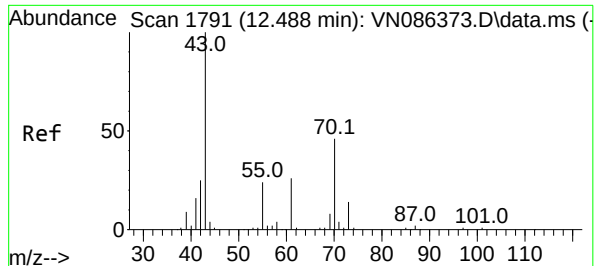
Ion Ratio Lower Upper

41 100

69 88.2 44.1 132.3

39 60.1 30.0 90.1





#47

n-amy1 Acetate

Concen: 19.045 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 92290

Ion Ratio Lower Upper

43 100

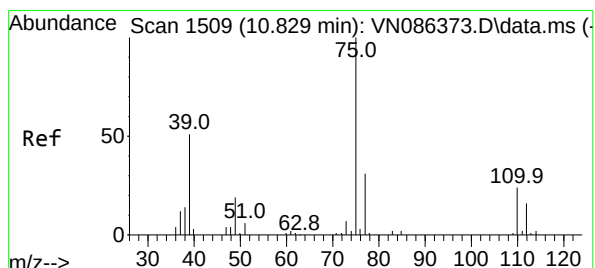
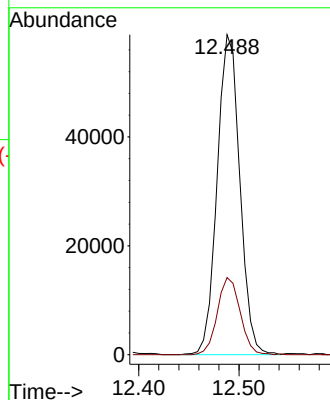
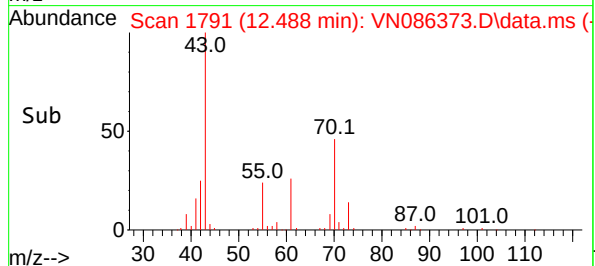
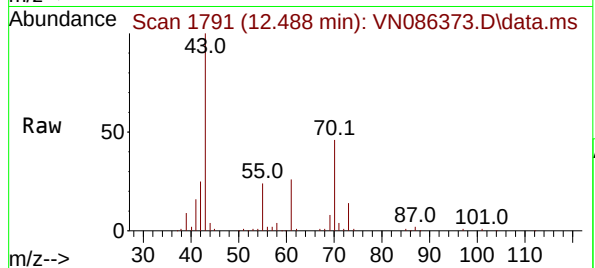
55 24.2 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#48

t-1,3-Dichloropropene

Concen: 19.132 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN086373.D

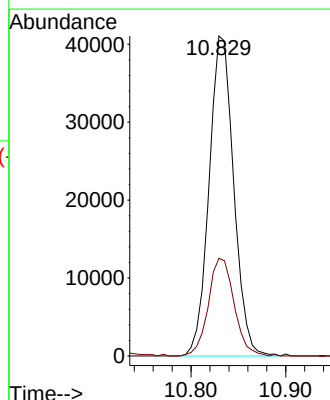
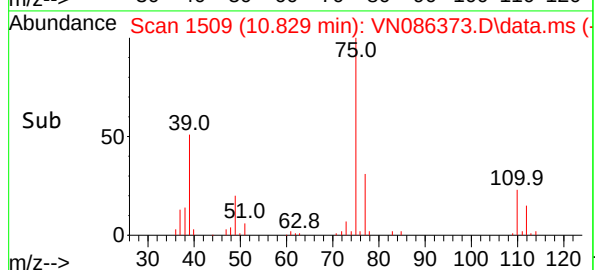
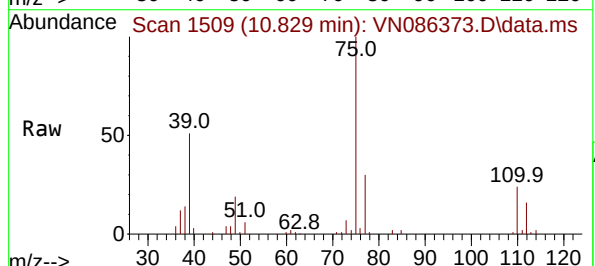
Acq: 23 Apr 2025 09:45

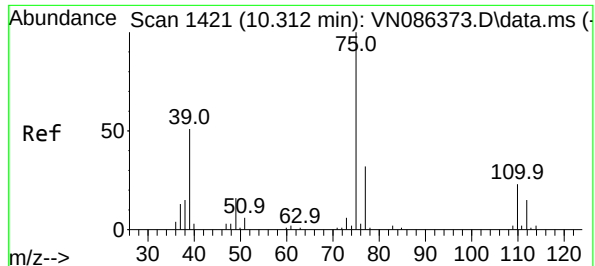
Tgt Ion: 75 Resp: 74180

Ion Ratio Lower Upper

75 100

77 30.5 24.4 36.6





#49

cis-1,3-Dichloropropene

Concen: 19.159 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 75 Resp: 7833

Ion Ratio Lower Upper

75 100

77 32.0 25.6 38.4

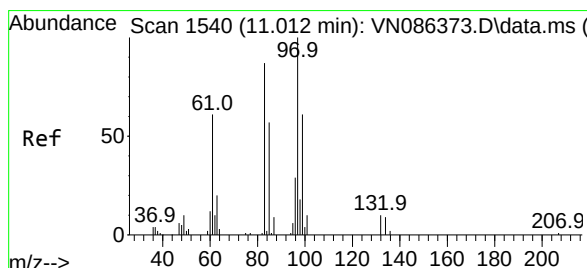
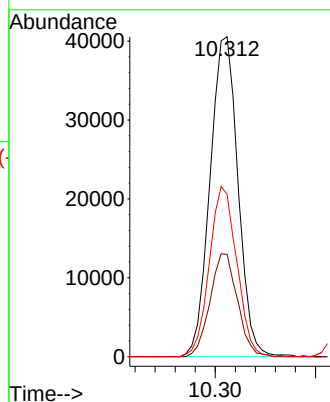
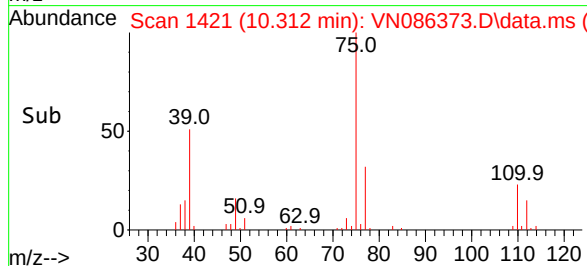
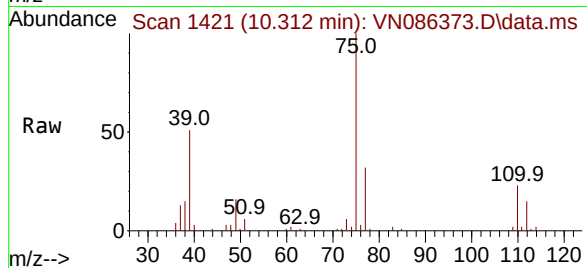
39 50.7 40.6 60.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#50

1,1,2-Trichloroethane

Concen: 19.712 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 97 Resp: 45121

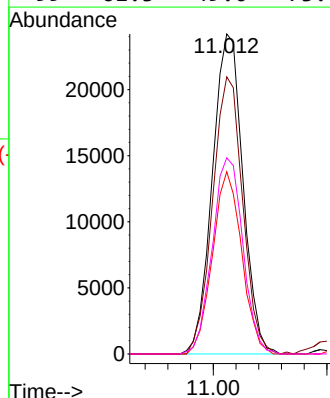
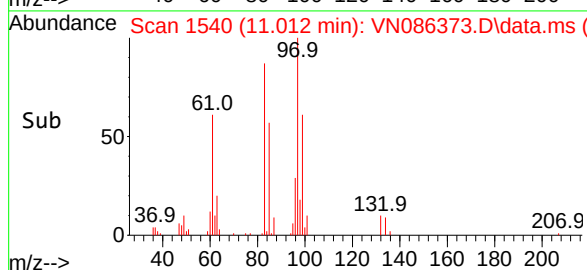
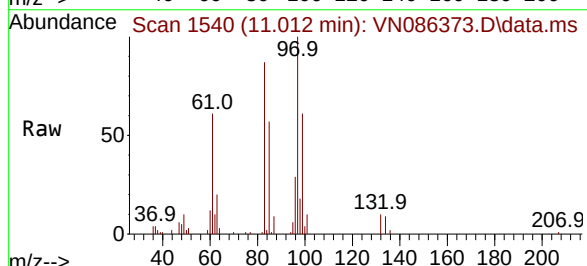
Ion Ratio Lower Upper

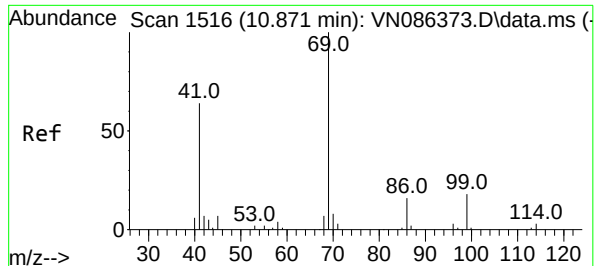
97 100

83 86.6 69.3 103.9

85 56.9 45.5 68.3

99 61.3 49.0 73.6





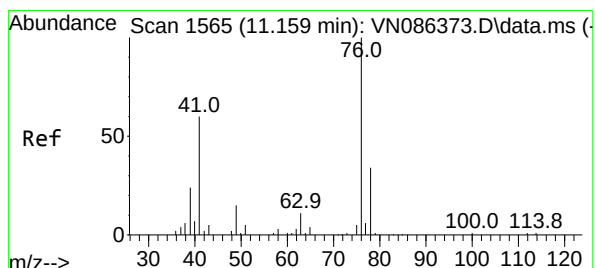
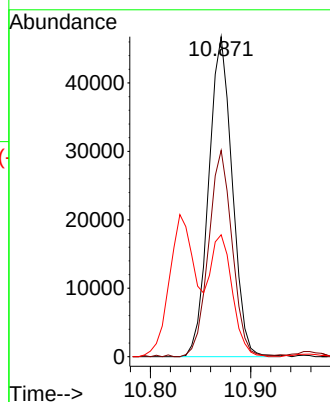
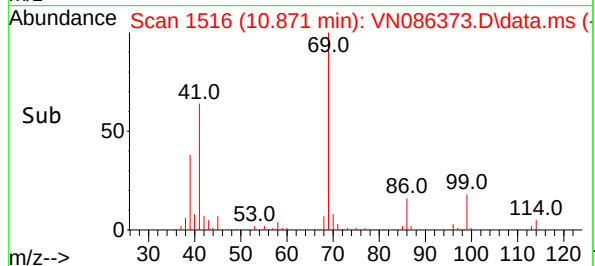
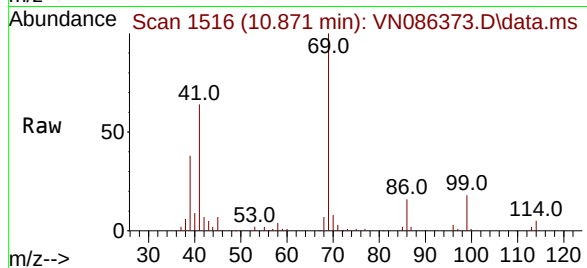
#51
Ethyl methacrylate
Concen: 19.128 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 69 Resp: 7625
Ion Ratio Lower Upper
69 100
41 64.5 32.3 96.8
39 38.1 19.1 57.1

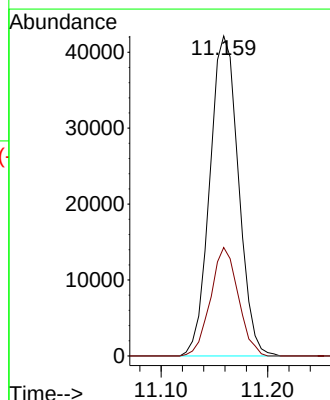
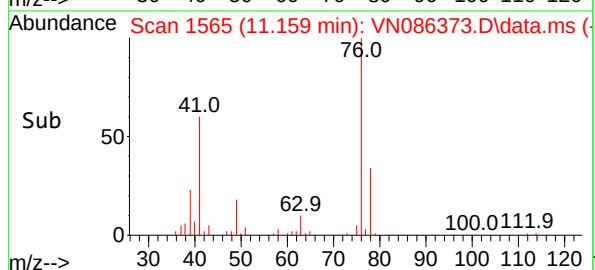
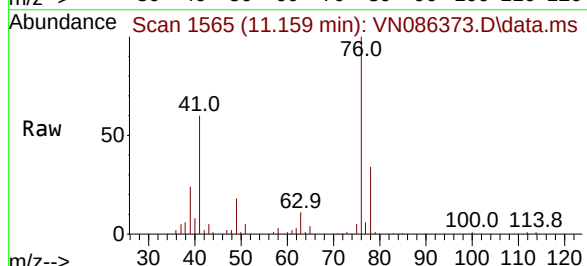
Manual Integrations
APPROVED

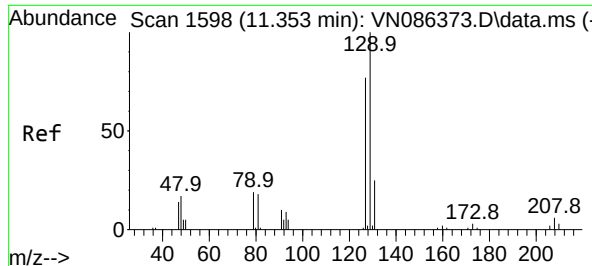
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 19.439 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

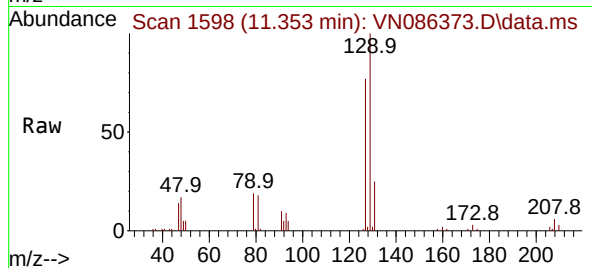
Tgt Ion: 76 Resp: 78642
Ion Ratio Lower Upper
76 100
78 32.8 0.0 65.6





#53
Dibromochloromethane
Concen: 19.243 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

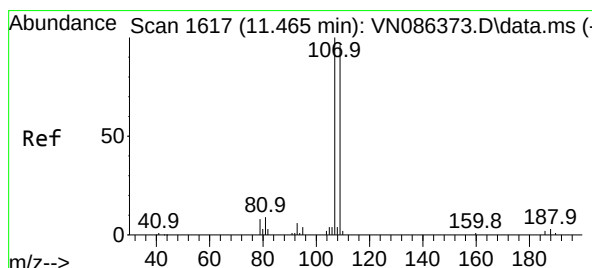
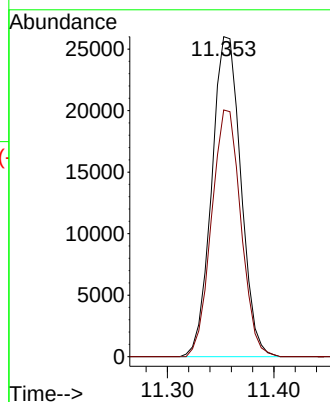
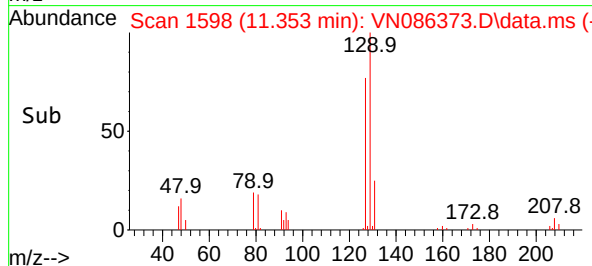
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



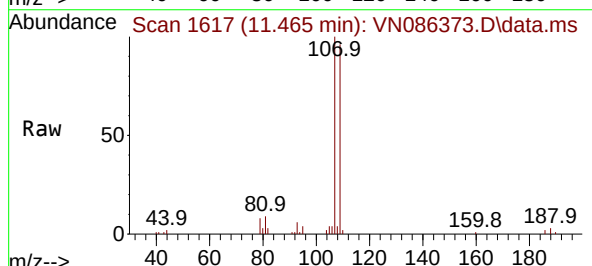
Tgt Ion:129 Resp: 49462
Ion Ratio Lower Upper
129 100
127 77.5 38.8 116.3

Manual Integrations
APPROVED

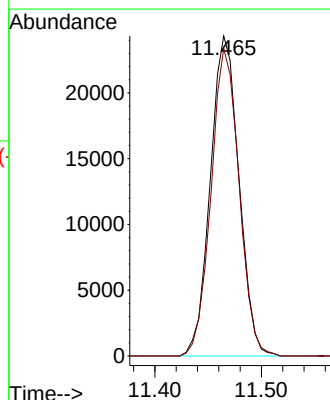
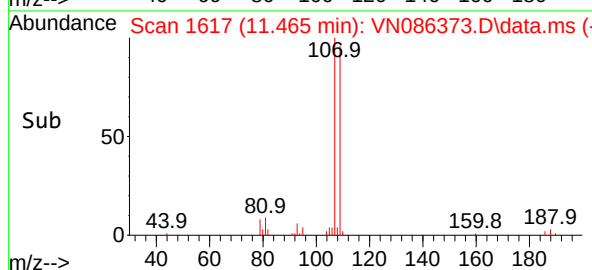
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

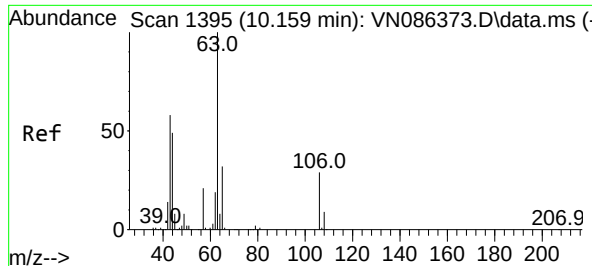


#54
1,2-Dibromoethane
Concen: 19.447 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



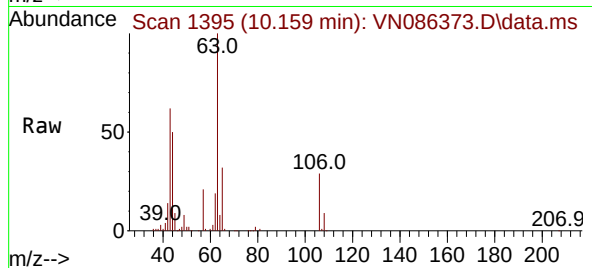
Tgt Ion:107 Resp: 45261
Ion Ratio Lower Upper
107 100
109 94.2 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 97.314 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

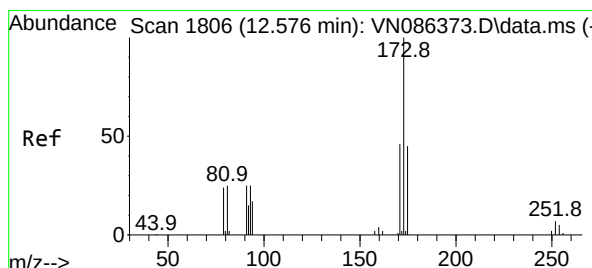
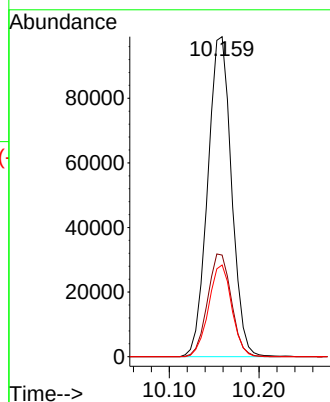
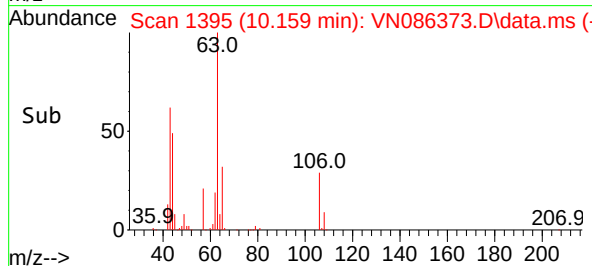
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 63 Resp: 182398
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 27.9 22.3 33.5

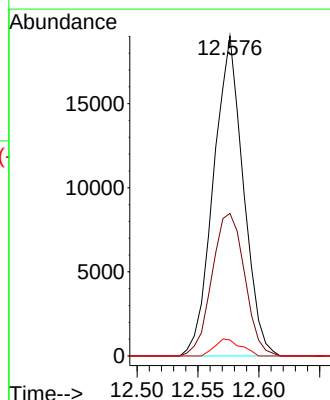
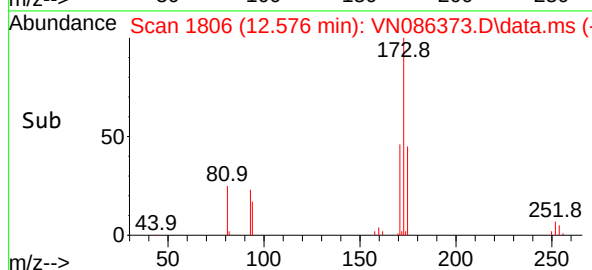
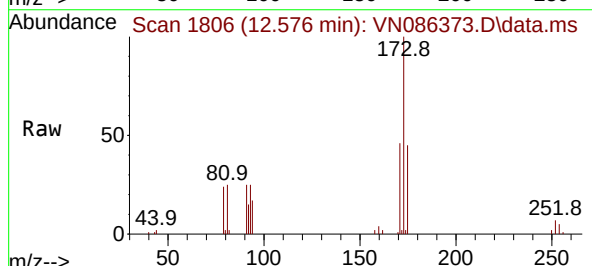
Manual Integrations
APPROVED

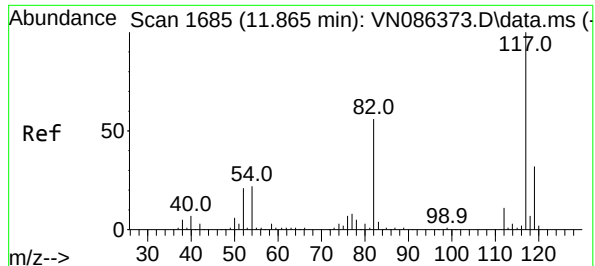
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 19.406 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:173 Resp: 32369
Ion Ratio Lower Upper
173 100
175 48.8 39.0 58.6
254 4.7 3.8 5.6





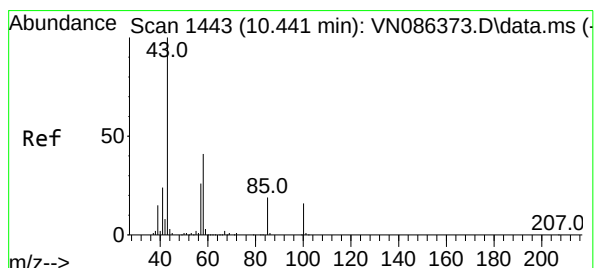
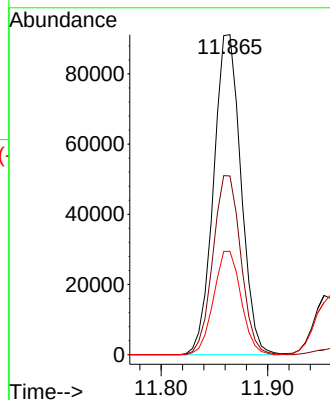
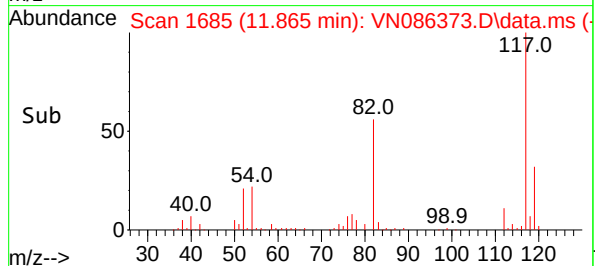
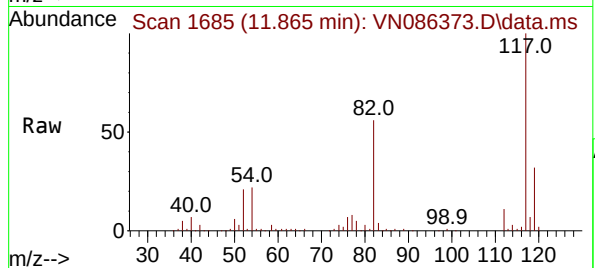
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:117 Resp: 163017
Ion Ratio Lower Upper
117 100
82 56.9 45.5 68.3
119 32.4 25.9 38.9

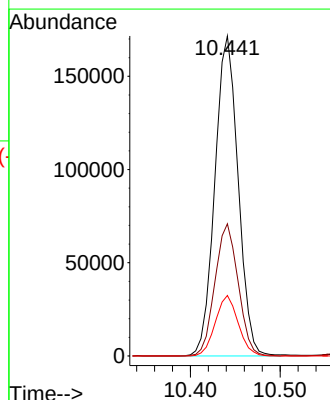
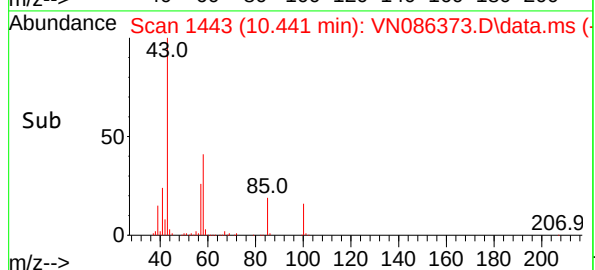
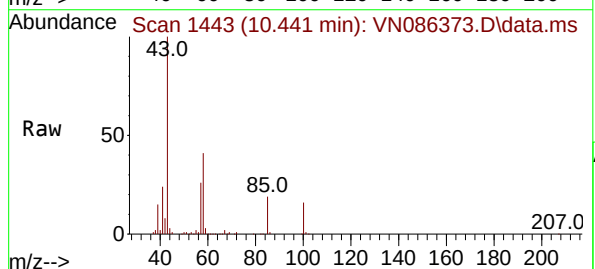
Manual Integrations
APPROVED

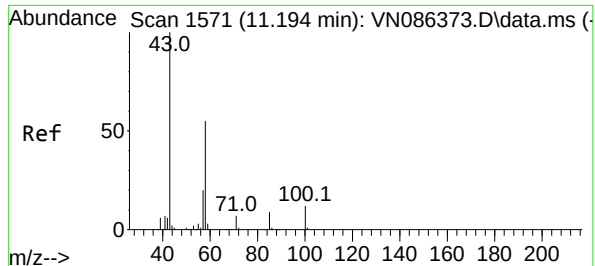
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 97.881 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

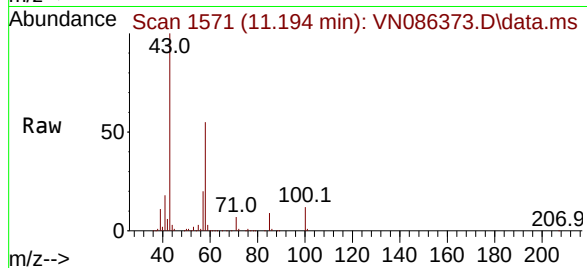
Tgt Ion: 43 Resp: 308775
Ion Ratio Lower Upper
43 100
58 41.3 33.0 49.6
85 18.6 14.9 22.3





#59
2-Hexanone
Concen: 98.024 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

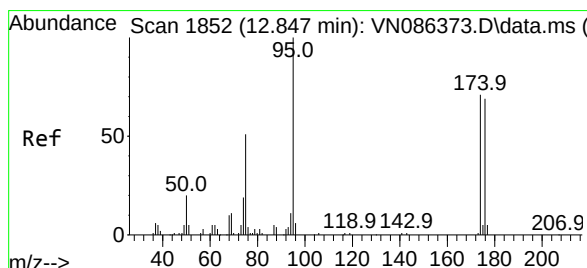
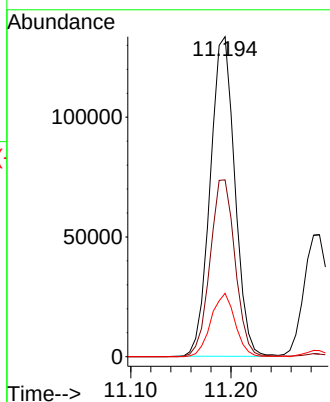
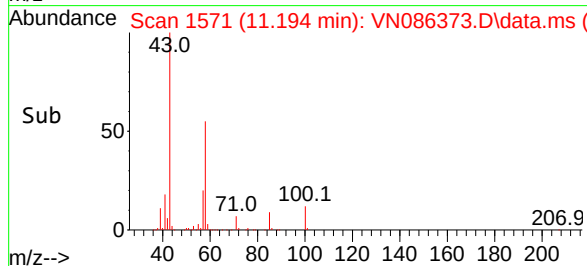
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



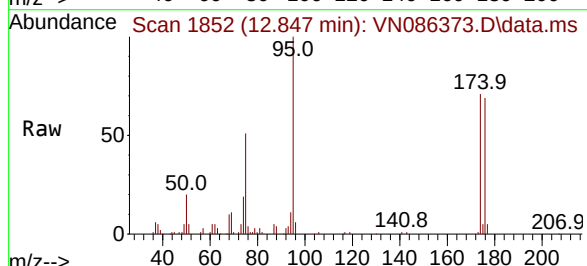
Tgt Ion: 43 Resp: 227878
Ion Ratio Lower Upper
43 100
58 56.3 45.0 67.6
57 19.4 15.5 23.3

Manual Integrations
APPROVED

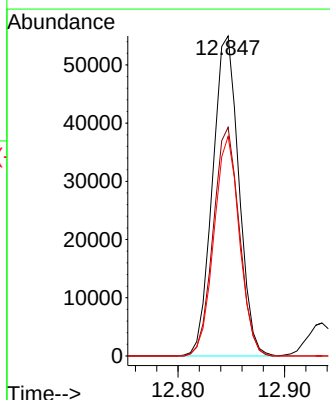
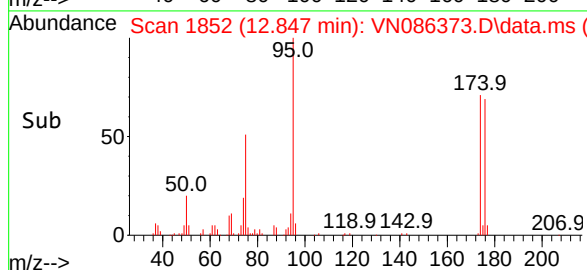
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

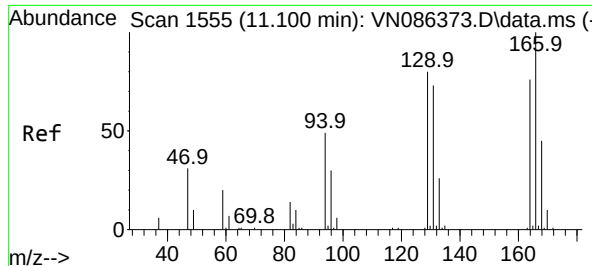


#60
4-Bromofluorobenzene
Concen: 29.376 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



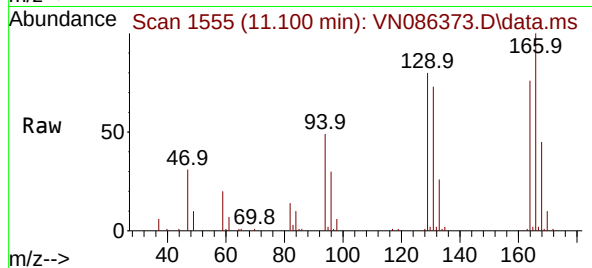
Tgt Ion: 95 Resp: 94119
Ion Ratio Lower Upper
95 100
174 70.7 56.6 84.8
176 66.6 53.3 79.9





#61
Tetrachloroethene
Concen: 18.888 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

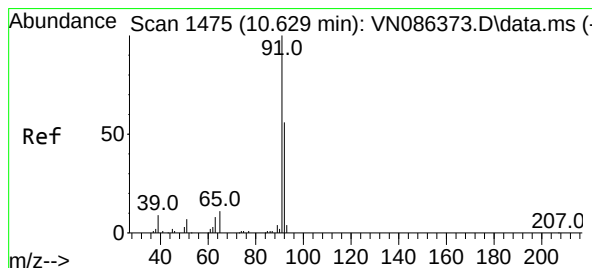
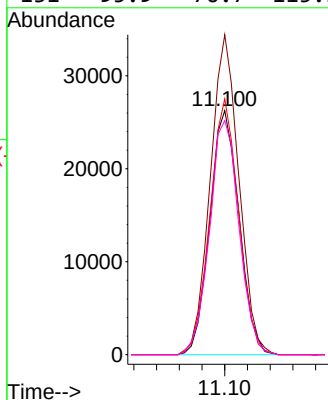
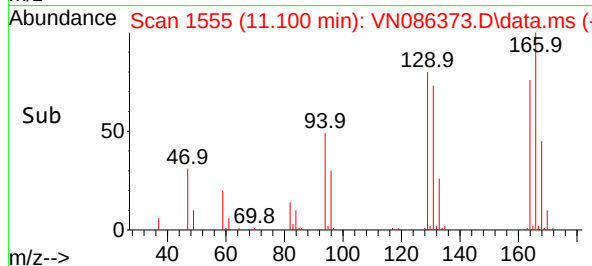
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:164 Resp: 46962
Ion Ratio Lower Upper
164 100
166 131.2 105.0 157.4
129 104.9 83.9 125.9
131 95.9 76.7 115.1

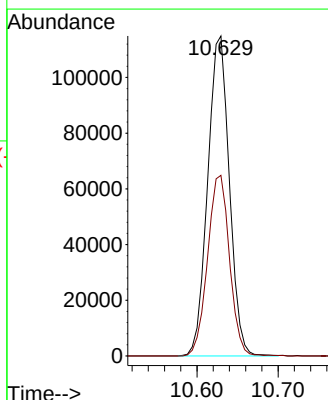
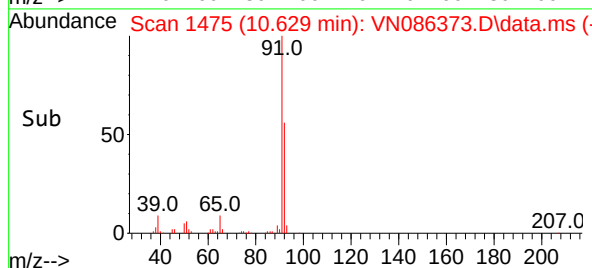
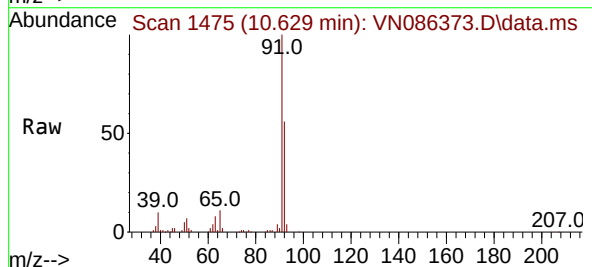
Manual Integrations
APPROVED

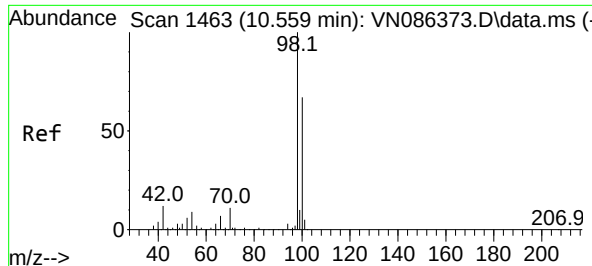
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#62
Toluene
Concen: 19.492 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 91 Resp: 212695
Ion Ratio Lower Upper
91 100
92 57.1 45.7 68.5





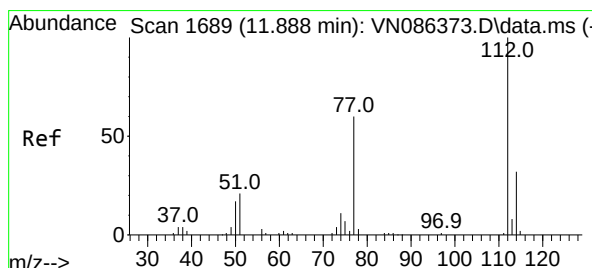
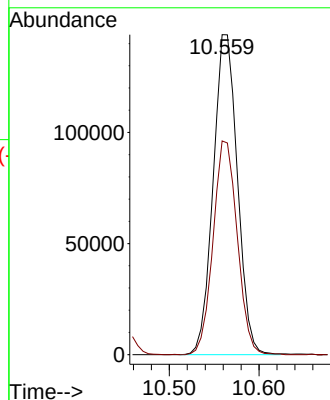
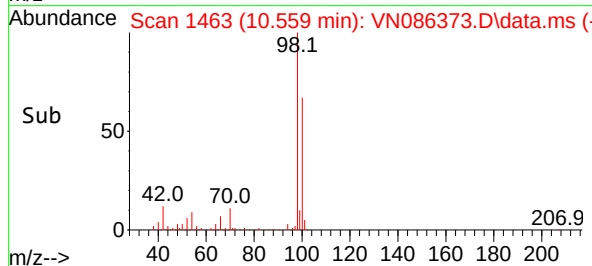
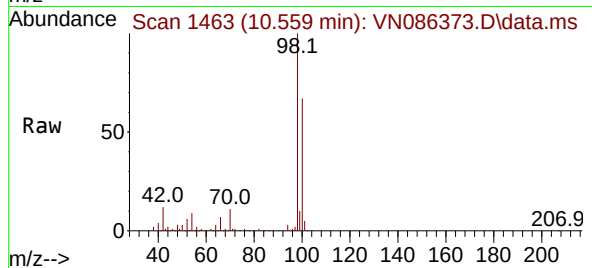
#63
Toluene-d8
Concen: 30.171 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 98 Resp: 270583
Ion Ratio Lower Upper
98 100
100 66.4 53.1 79.7

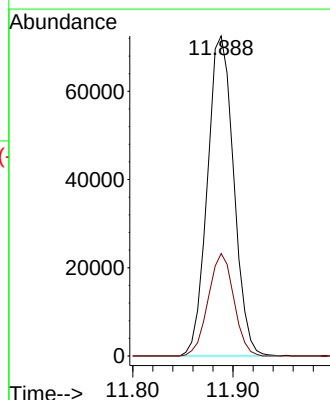
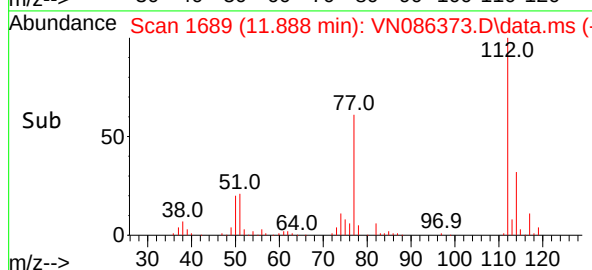
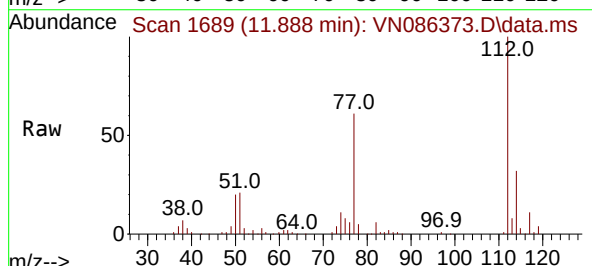
Manual Integrations
APPROVED

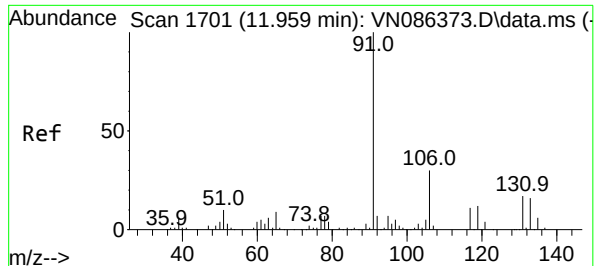
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 19.432 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:112 Resp: 132119
Ion Ratio Lower Upper
112 100
114 32.0 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 19.241 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

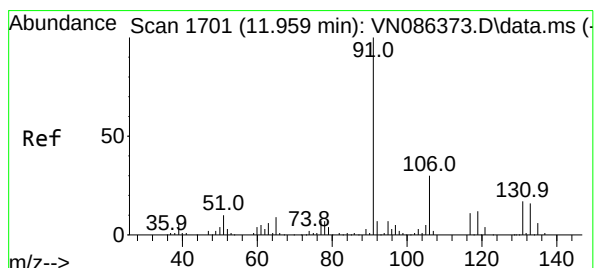
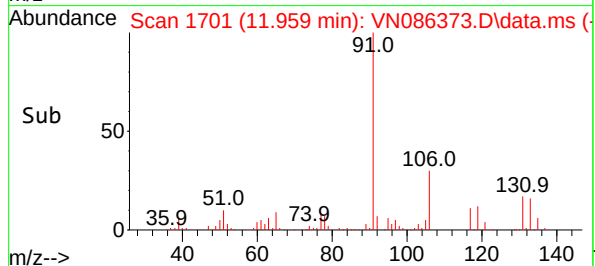
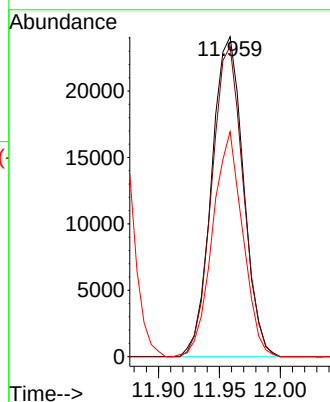
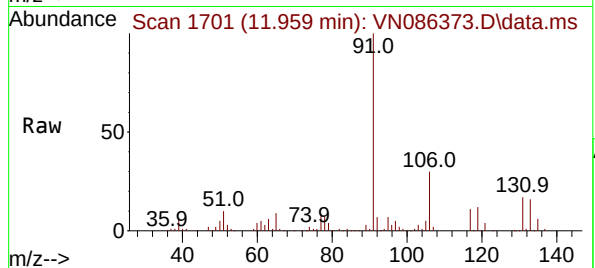
Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	0.0	191.4
119	66.8	0.0	133.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#66

Ethyl Benzene

Concen: 19.350 ug/l

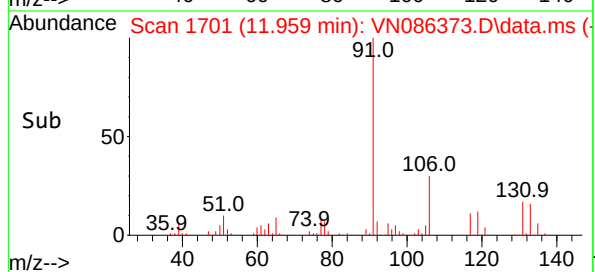
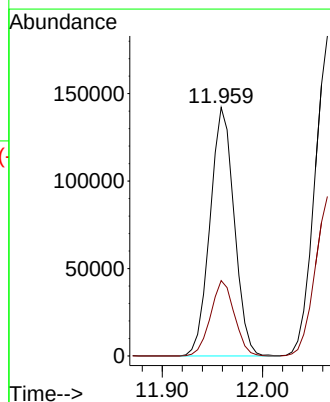
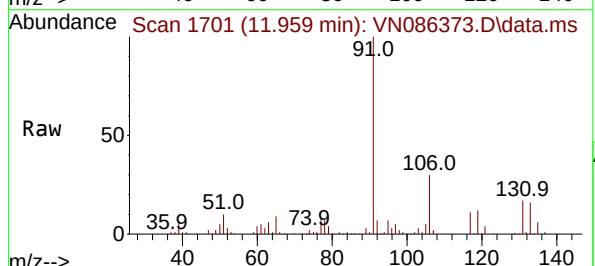
RT: 11.959 min Scan# 1701

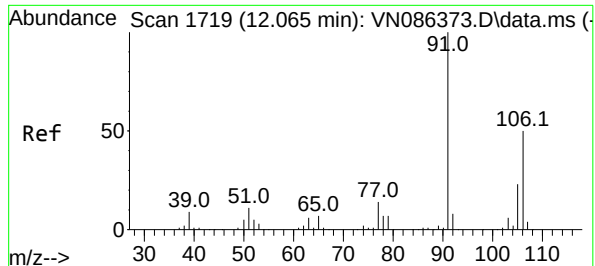
Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5





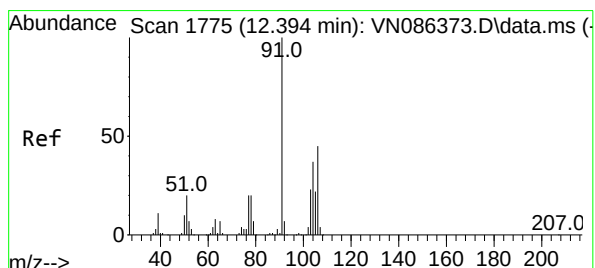
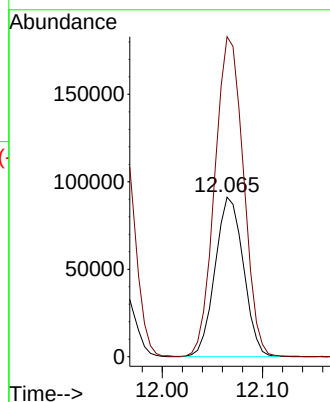
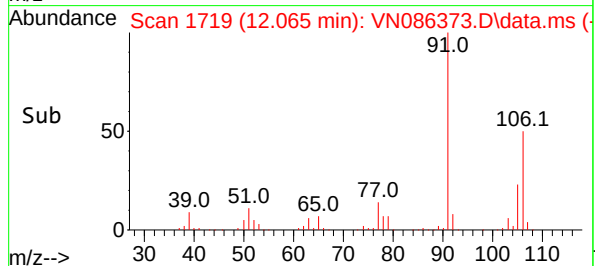
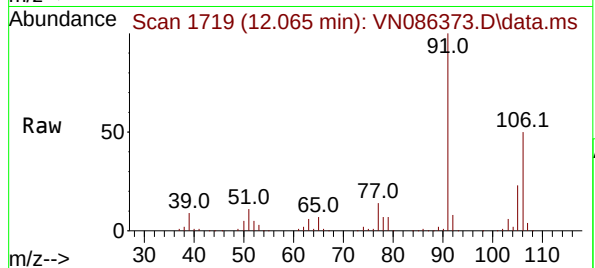
#67
m/p-Xylenes
Concen: 38.428 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:106 Resp: 179085
Ion Ratio Lower Upper
106 100
91 203.2 162.6 243.8

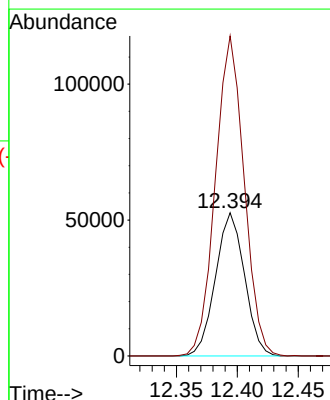
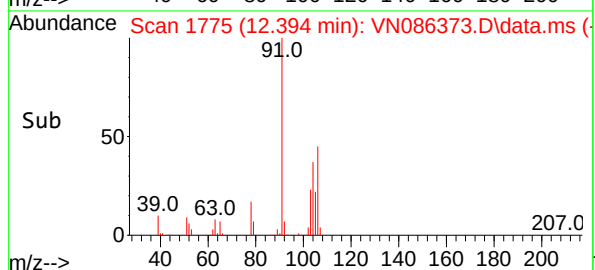
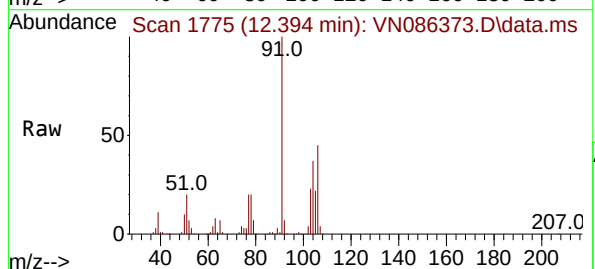
Manual Integrations
APPROVED

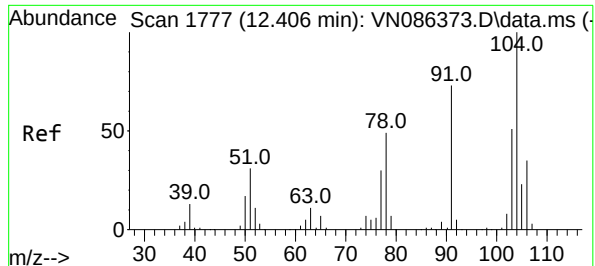
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 19.149 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:106 Resp: 87377
Ion Ratio Lower Upper
106 100
91 221.1 110.6 331.6





#69

Styrene

Concen: 18.983 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:104 Resp: 14681

Ion Ratio Lower Upper

104 100

78 50.3 40.2 60.4

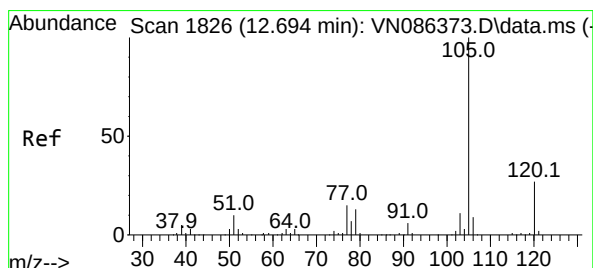
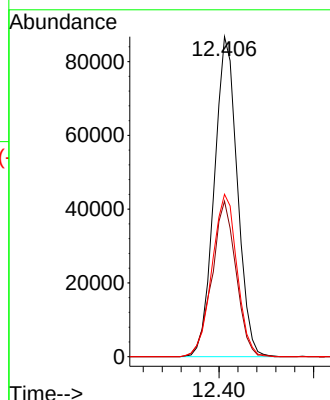
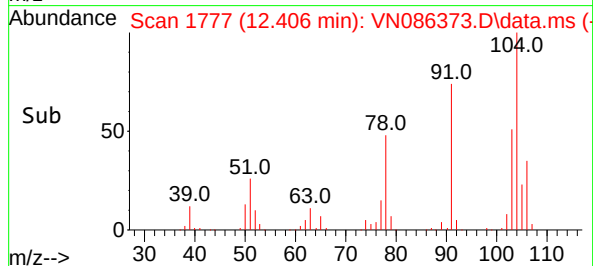
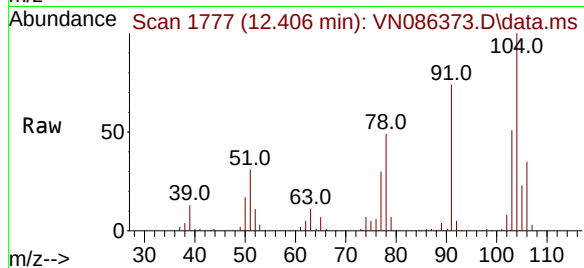
103 54.8 43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#70

Isopropylbenzene

Concen: 19.283 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086373.D

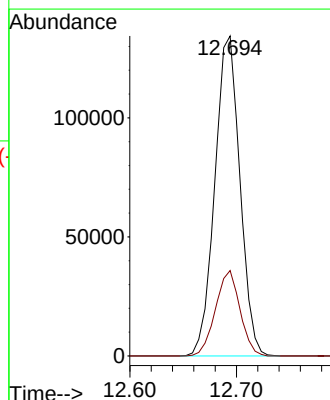
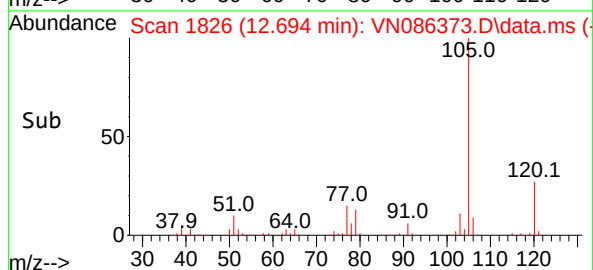
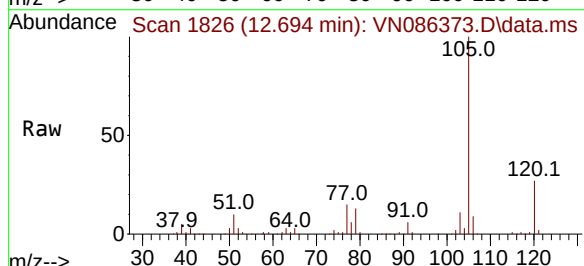
Acq: 23 Apr 2025 09:45

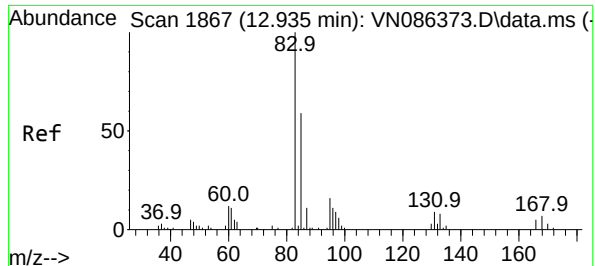
Tgt Ion:105 Resp: 219637

Ion Ratio Lower Upper

105 100

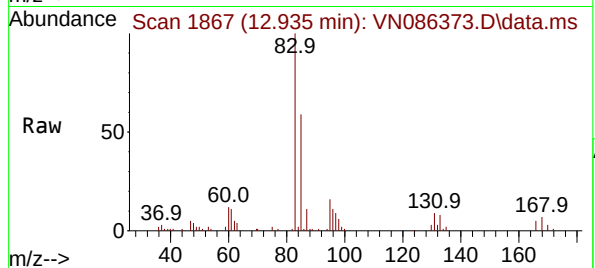
120 26.0 18.2 33.8





#71
1,1,2,2-Tetrachloroethane
Concen: 20.511 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

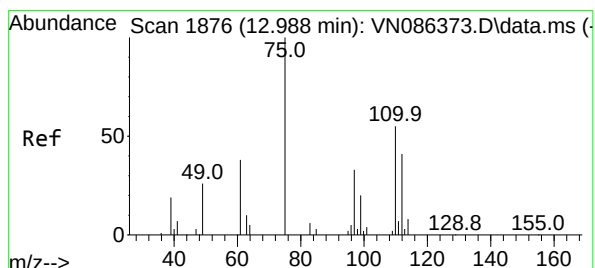
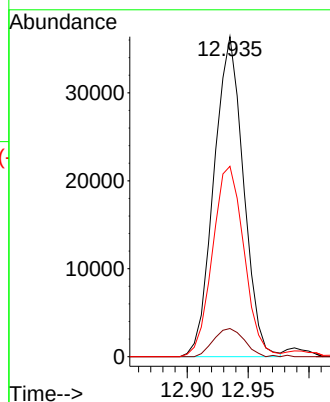
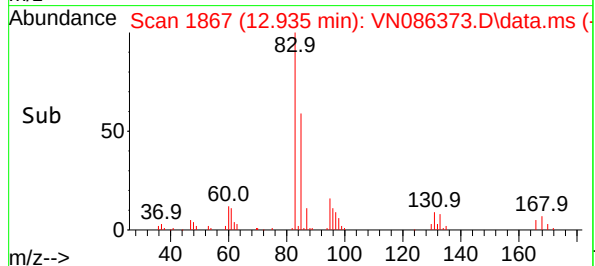
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 61510
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.7
85 63.4 31.7 95.1

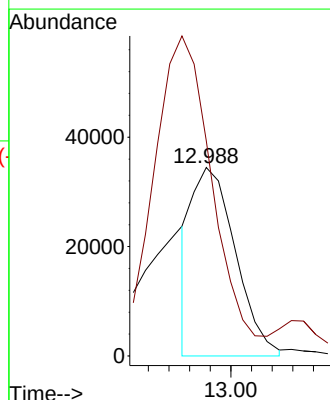
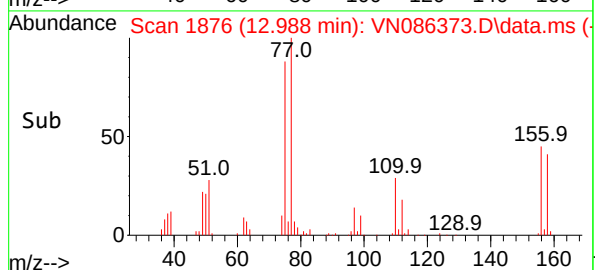
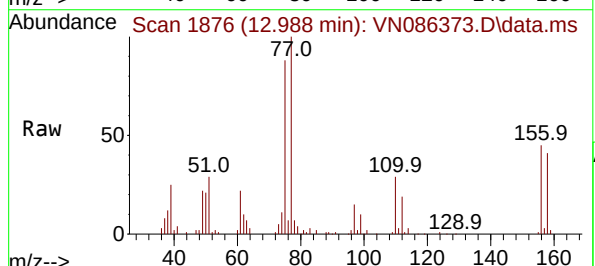
Manual Integrations
APPROVED

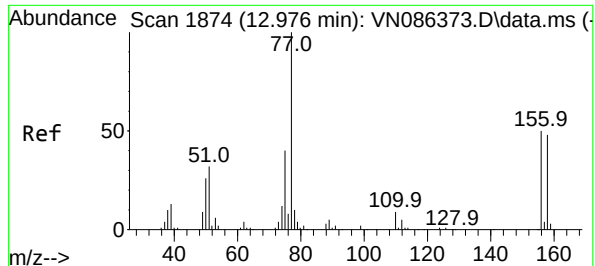
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 19.411 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

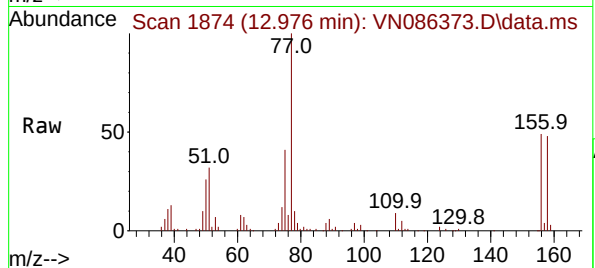
Tgt Ion: 75 Resp: 50447
Ion Ratio Lower Upper
75 100
77 232.2 0.0 464.4





#73
Bromobenzene
Concen: 19.307 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

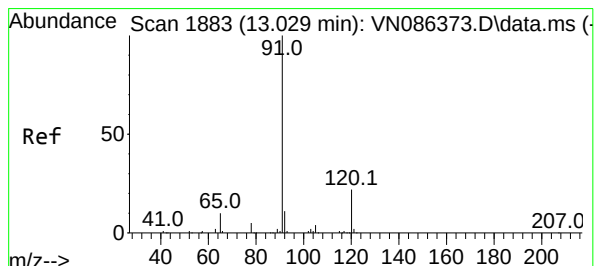
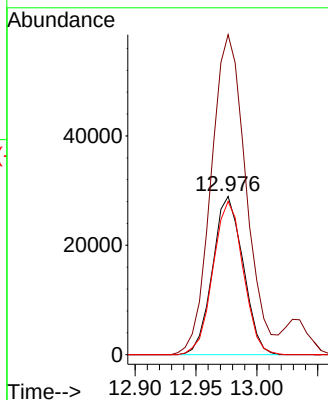
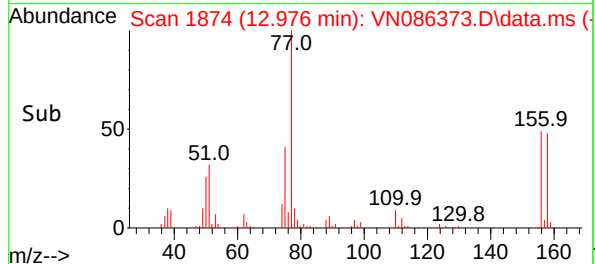
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:156 Resp: 50559
Ion Ratio Lower Upper
156 100
77 231.7 0.0 463.4
158 95.9 0.0 191.8

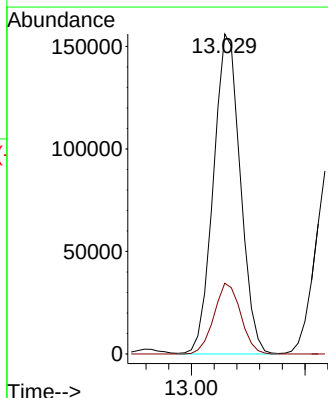
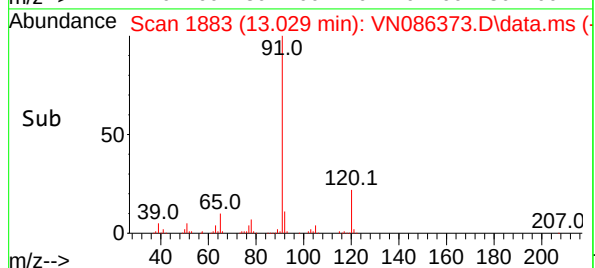
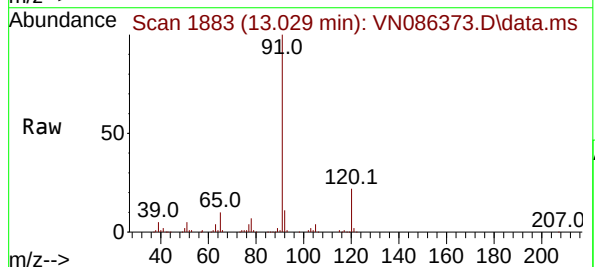
Manual Integrations
APPROVED

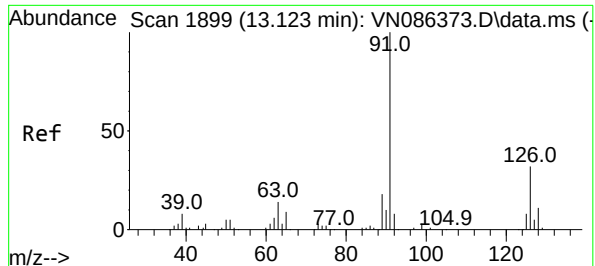
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 18.969 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 91 Resp: 256755
Ion Ratio Lower Upper
91 100
120 21.9 0.0 43.8





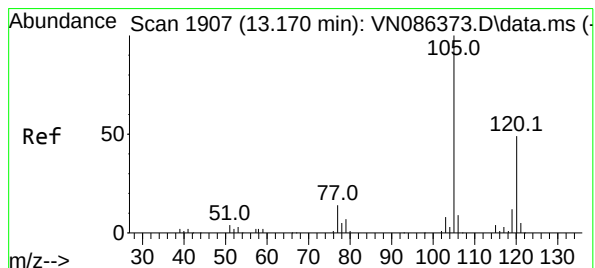
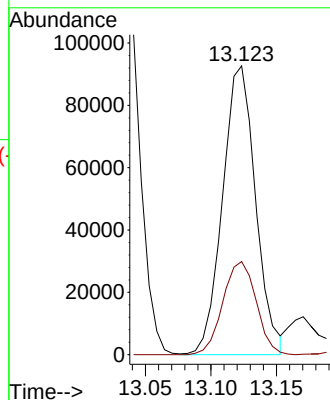
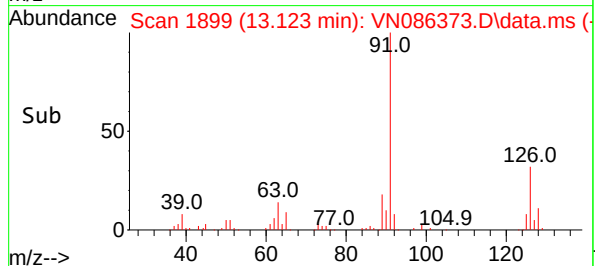
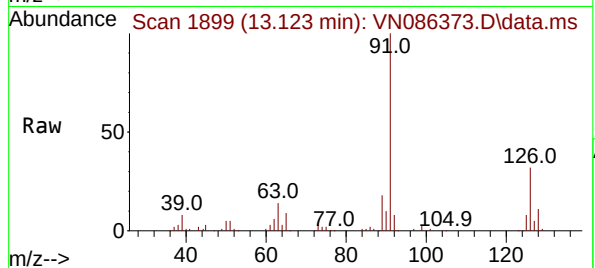
#75
2-Chlorotoluene
Concen: 19.217 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 162370
Ion Ratio Lower Upper
91 100
126 32.5 0.0 65.0

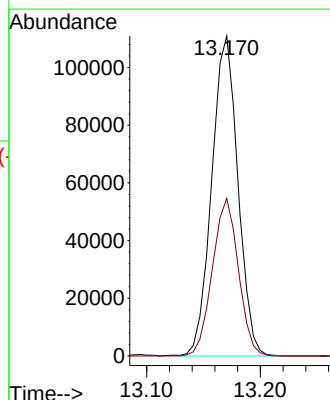
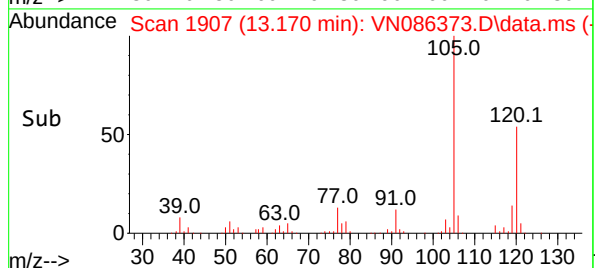
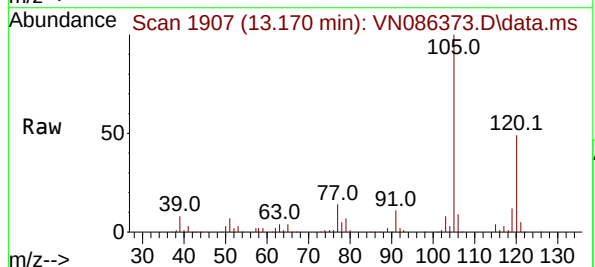
Manual Integrations
APPROVED

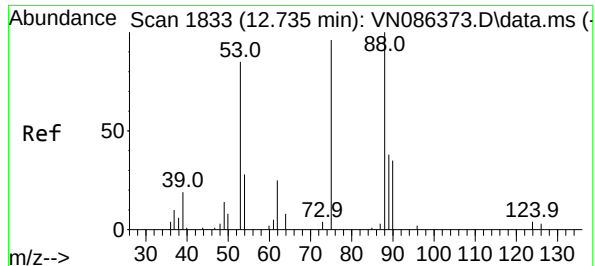
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 18.987 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:105 Resp: 177449
Ion Ratio Lower Upper
105 100
120 48.8 0.0 97.6





#77

t-1,4-Dichloro-2-butene

Concen: 18.653 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 75 Resp: 2475

Ion Ratio Lower Upper

75 100

53 92.0 46.0 138.0

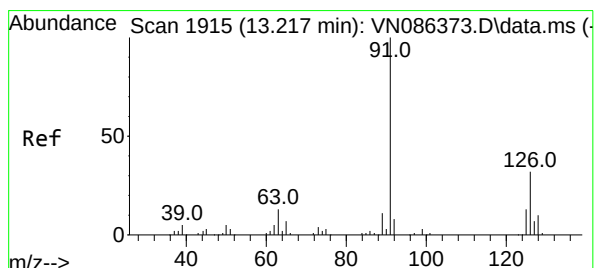
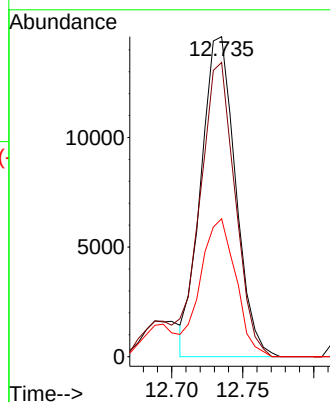
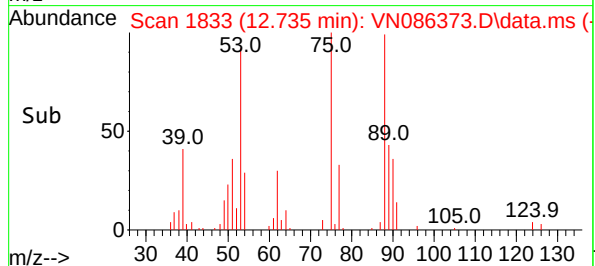
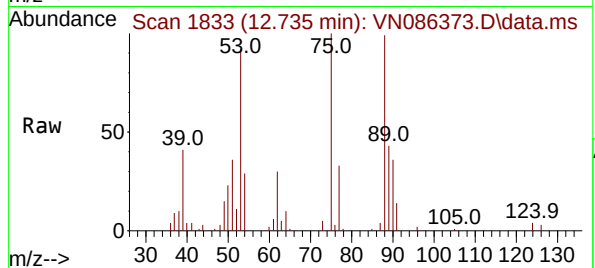
89 43.1 21.6 64.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#78

4-Chlorotoluene

Concen: 18.576 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN086373.D

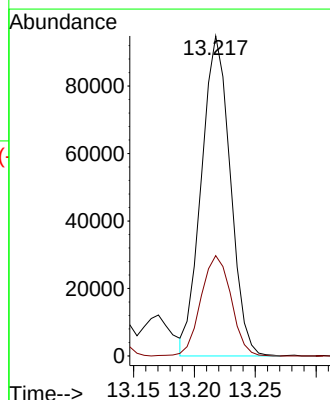
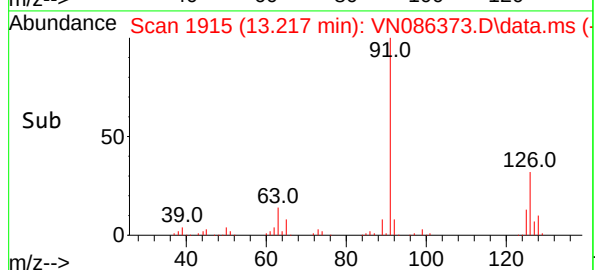
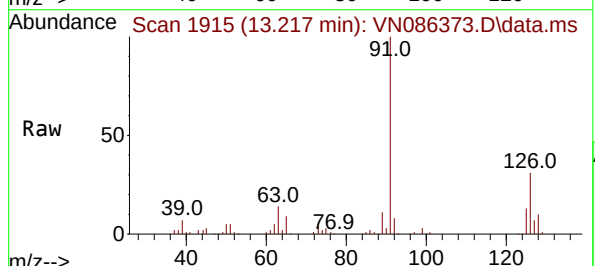
Acq: 23 Apr 2025 09:45

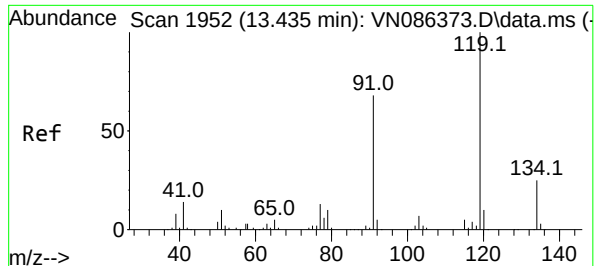
Tgt Ion: 91 Resp: 156935

Ion Ratio Lower Upper

91 100

126 32.7 0.0 65.4





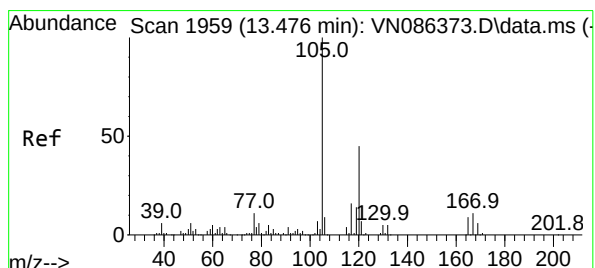
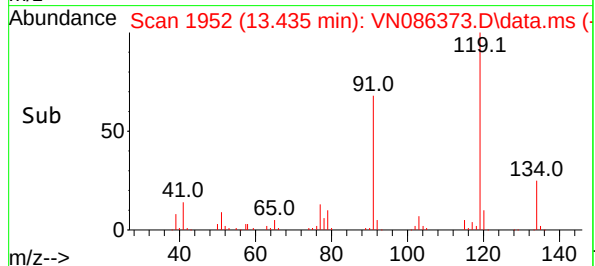
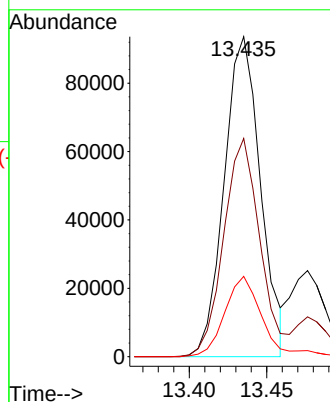
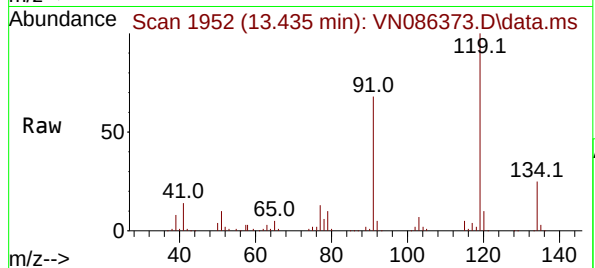
#79
tert-butylbenzene
Concen: 19.073 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:119 Resp: 15266
Ion Ratio Lower Upper
119 100
91 68.7 0.0 137.4
134 24.6 0.0 49.2

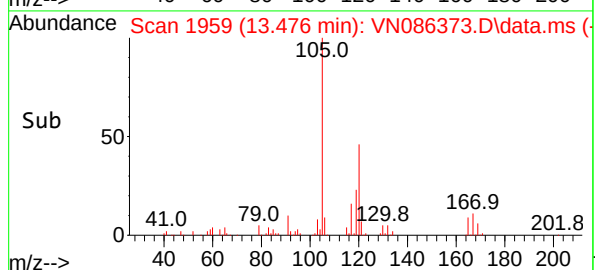
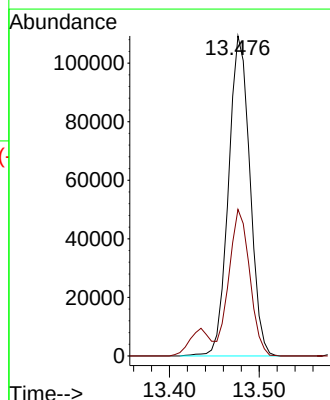
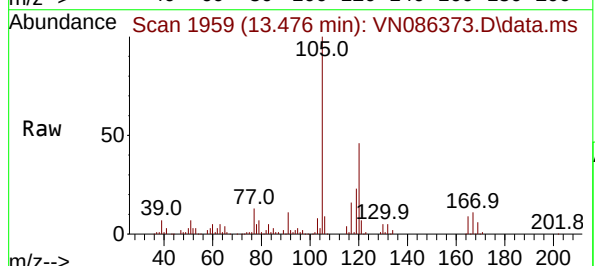
Manual Integrations
APPROVED

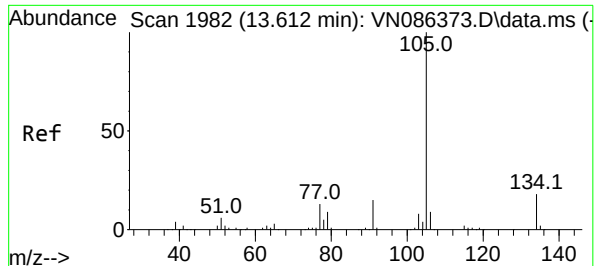
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#80
1,2,4-Trimethylbenzene
Concen: 18.949 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

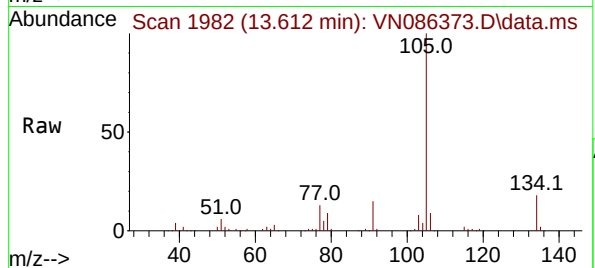
Tgt Ion:105 Resp: 180860
Ion Ratio Lower Upper
105 100
120 43.8 0.0 87.6





#81
sec-Butylbenzene
Concen: 18.686 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

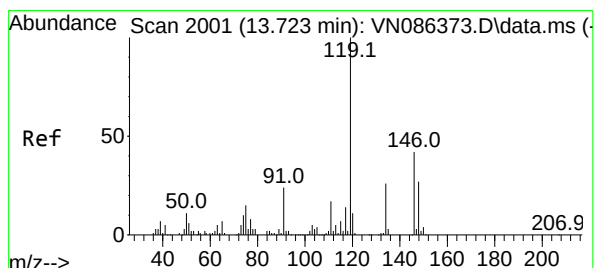
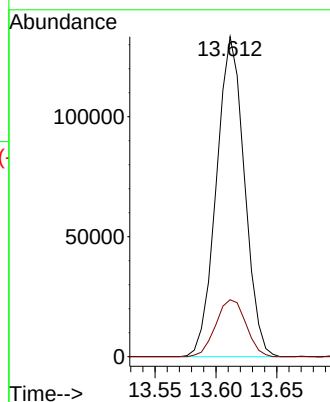
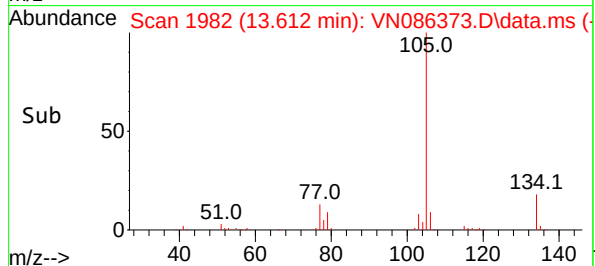
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:105 Resp: 21349
Ion Ratio Lower Upper
105 100
134 19.2 0.0 38.4

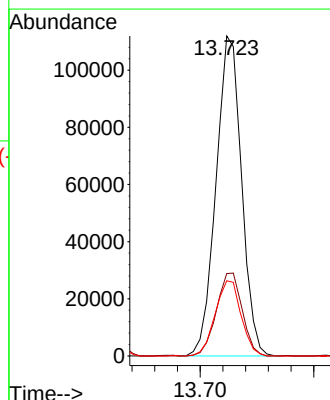
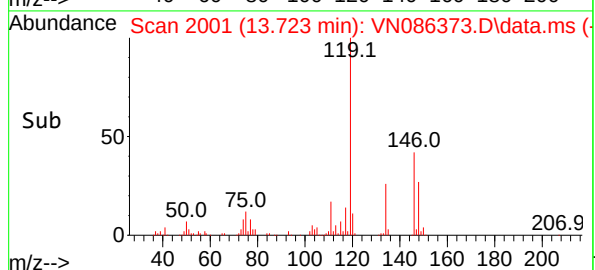
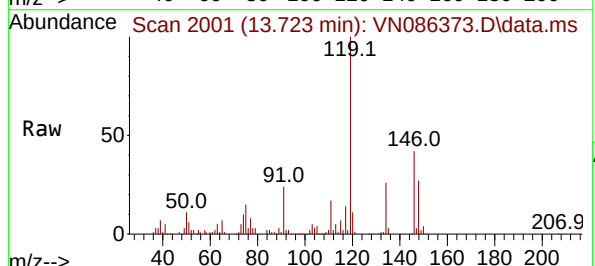
Manual Integrations
APPROVED

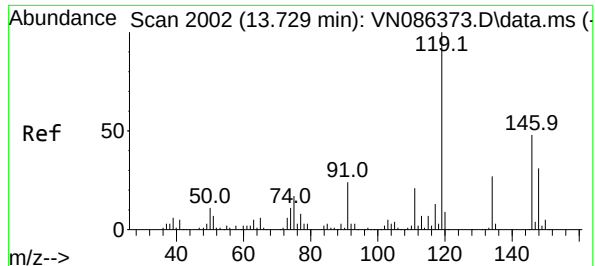
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#82
p-Isopropyltoluene
Concen: 18.304 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

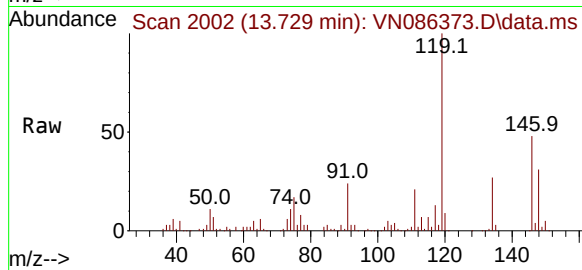
Tgt Ion:119 Resp: 175002
Ion Ratio Lower Upper
119 100
134 26.1 0.0 52.2
91 23.8 0.0 47.6





#83
1,3-Dichlorobenzene
Concen: 18.311 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

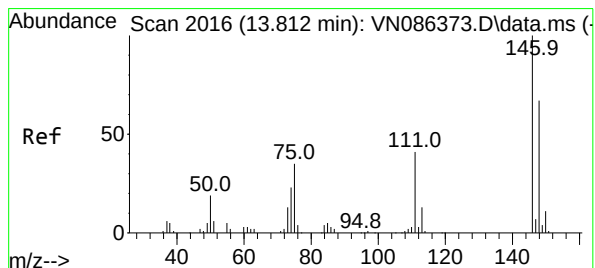
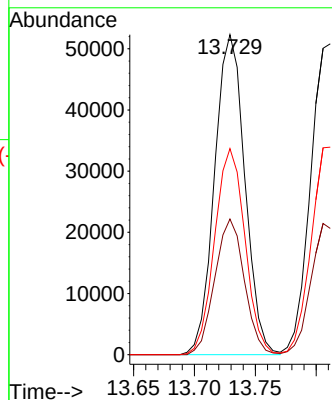
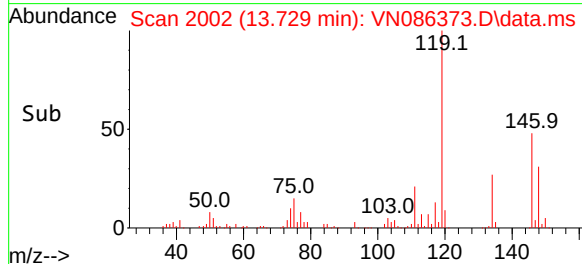
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:146 Resp: 9064
Ion Ratio Lower Upper
146 100
111 41.4 20.7 62.1
148 64.5 32.3 96.8

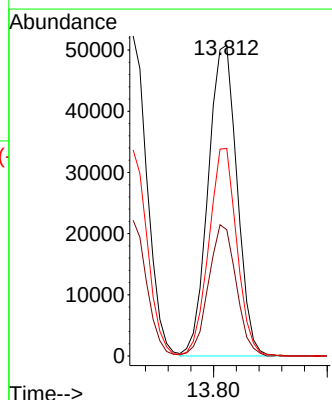
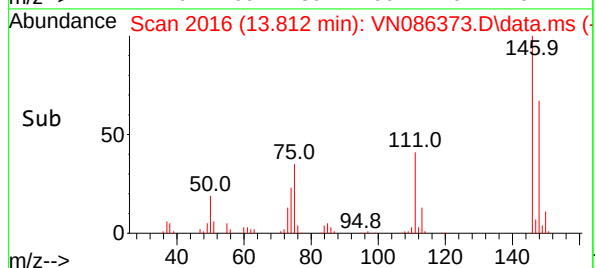
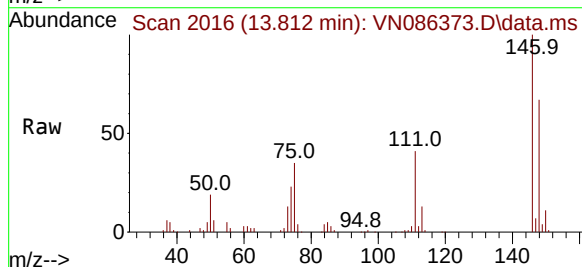
Manual Integrations
APPROVED

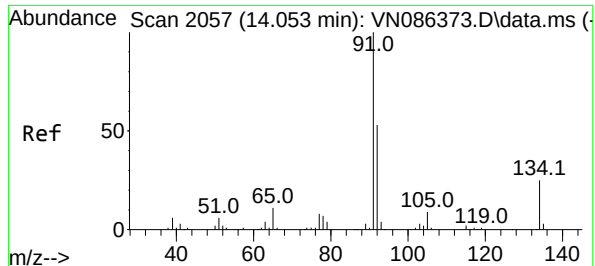
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#84
1,4-Dichlorobenzene
Concen: 18.342 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:146 Resp: 89707
Ion Ratio Lower Upper
146 100
111 40.5 20.3 60.8
148 64.8 32.4 97.2





#85

n-Butylbenzene

Concen: 17.991 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 91 Resp: 153480

Ion Ratio Lower Upper

91 100

92 53.6 0.0 107.2

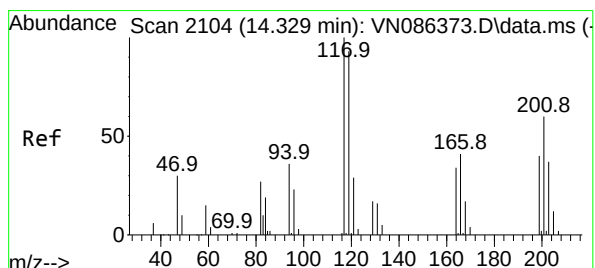
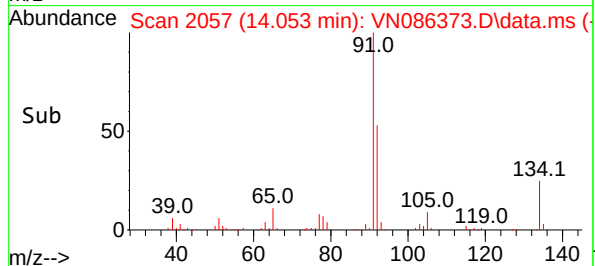
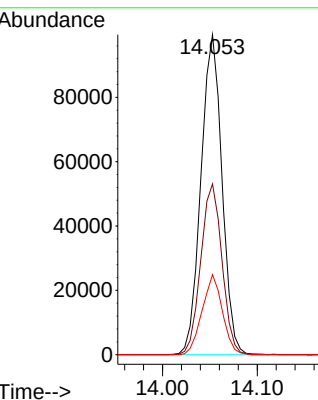
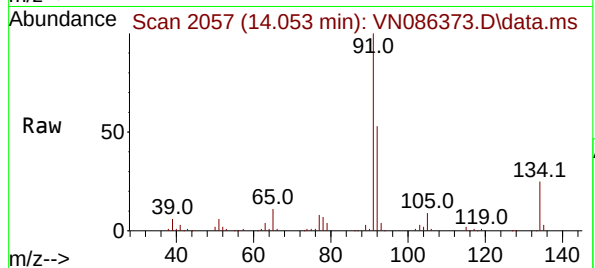
134 24.1 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#86

Hexachloroethane

Concen: 18.313 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN086373.D

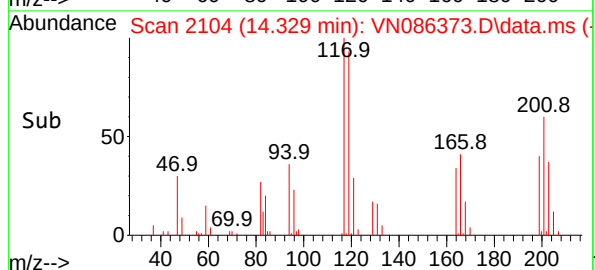
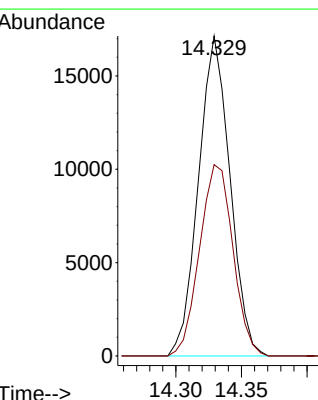
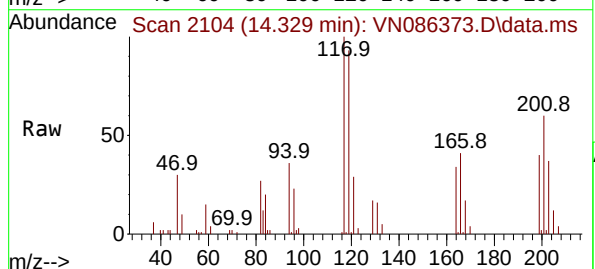
Acq: 23 Apr 2025 09:45

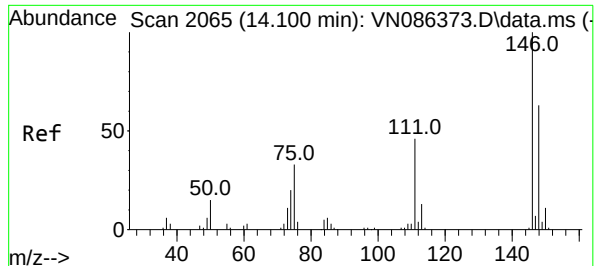
Tgt Ion:117 Resp: 28629

Ion Ratio Lower Upper

117 100

201 63.4 31.7 95.1





#87

1,2-Dichlorobenzene

Concen: 18.450 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

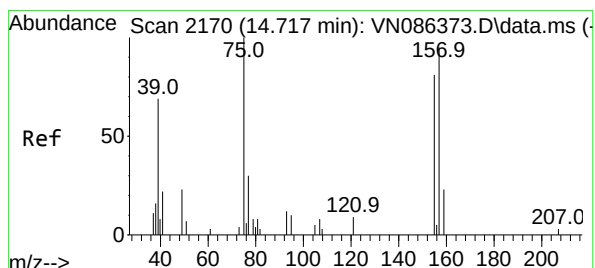
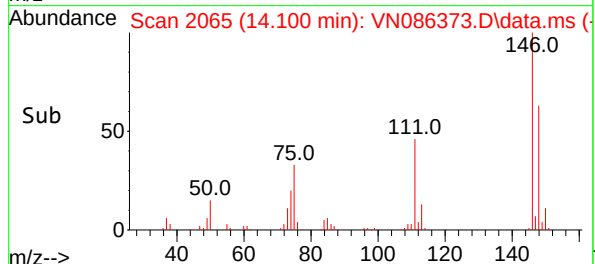
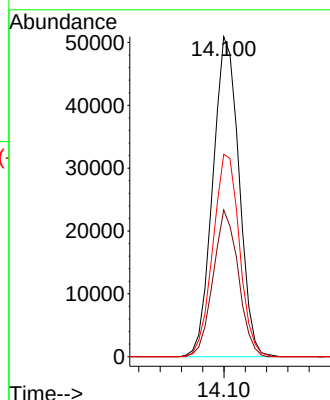
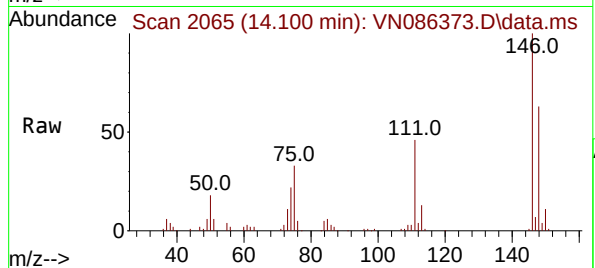
Tgt Ion:	146	Resp:	8689
Ion Ratio	Lower	Upper	
146	100		
111	44.2	22.1	66.3
148	64.0	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.182 ug/l

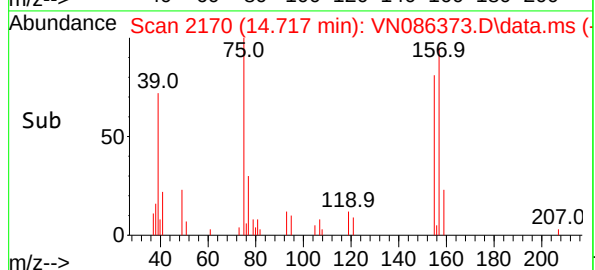
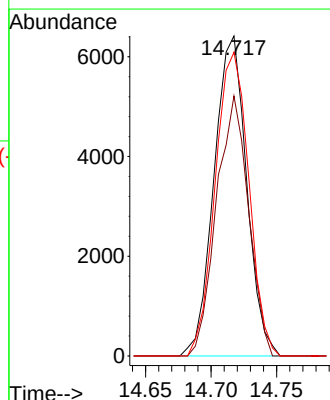
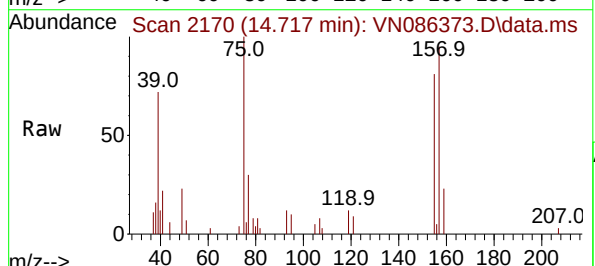
RT: 14.717 min Scan# 2170

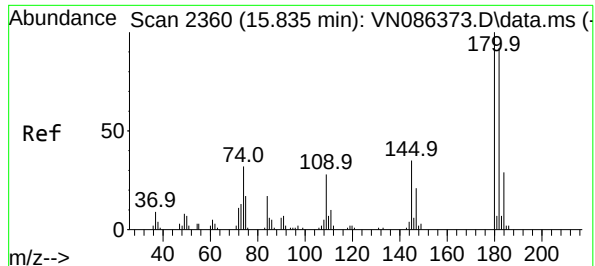
Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion:	75	Resp:	11084
Ion Ratio	Lower	Upper	
75	100		
155	80.0	64.0	96.0
157	97.8	78.2	117.4





#89

1,2,4-Trichlorobenzene

Concen: 17.609 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:180 Resp: 3780

Ion Ratio Lower Upper

180 100

182 93.5 74.8 112.2

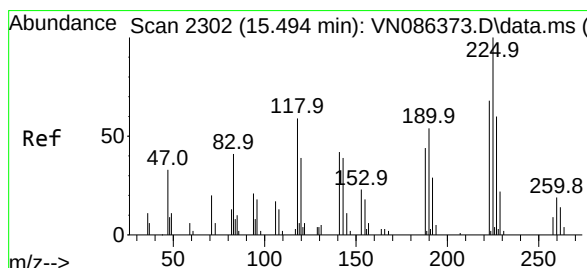
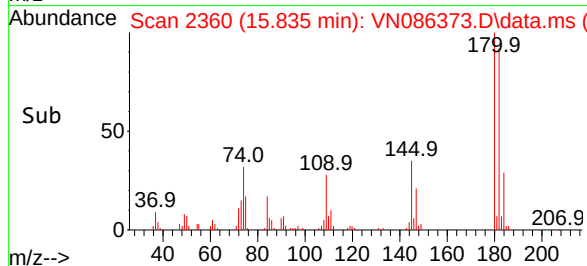
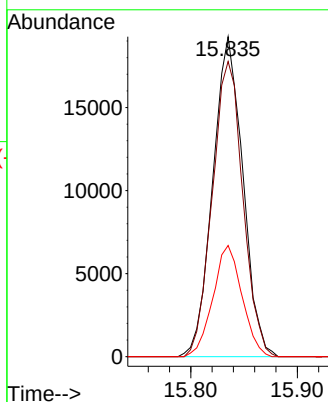
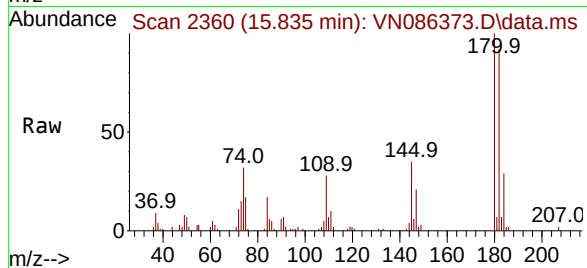
145 33.6 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

Concen: 17.847 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

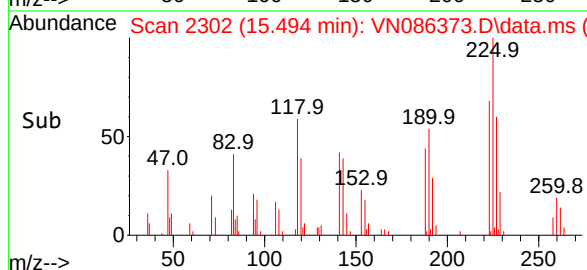
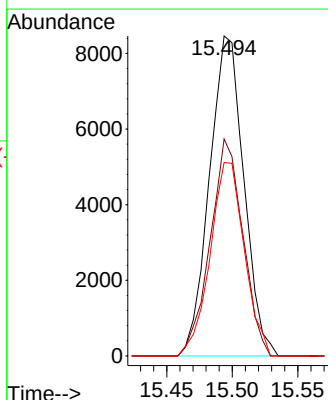
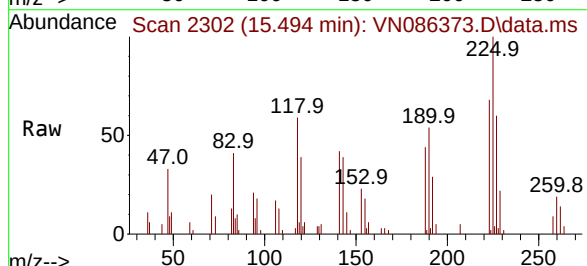
Tgt Ion:225 Resp: 15432

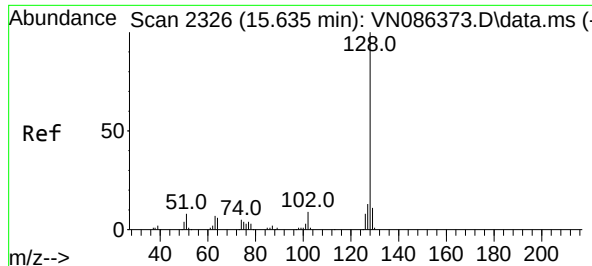
Ion Ratio Lower Upper

225 100

223 64.4 0.0 128.8

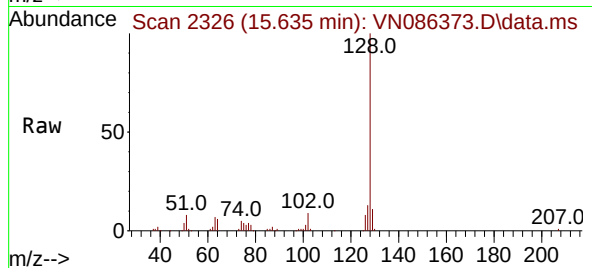
227 60.1 0.0 120.2





#91
Naphthalene
Concen: 17.630 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

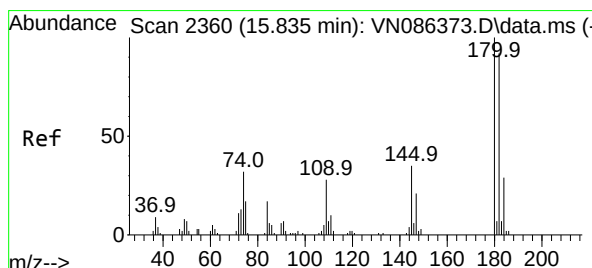
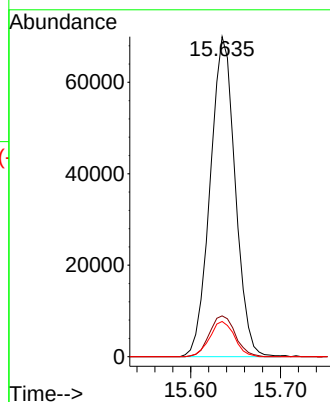
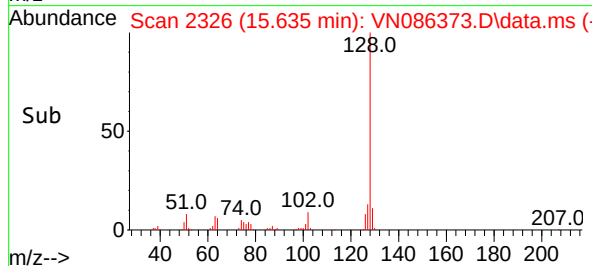
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 13549
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.9 8.7 13.1

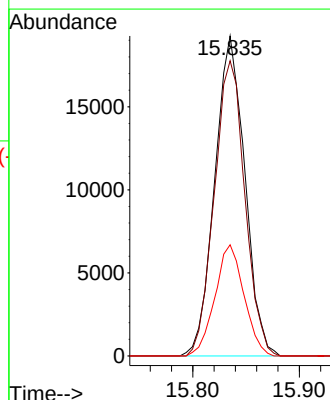
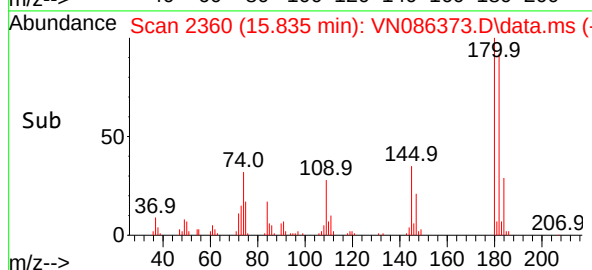
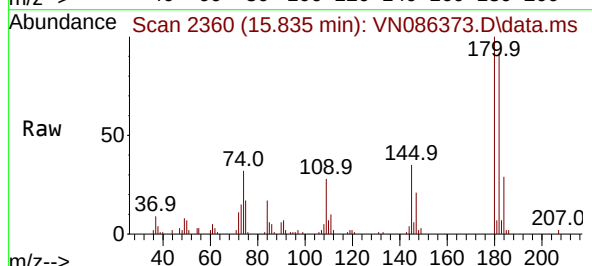
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 17.609 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:180 Resp: 37802
Ion Ratio Lower Upper
180 100
182 93.5 0.0 187.0
145 33.6 0.0 67.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086378.D
 Acq On : 23 Apr 2025 11:53
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:24:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30321	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	175444	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164865	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84791	29.005	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.667%		
60) 4-Bromofluorobenzene	12.847	95	102335	31.582	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	105.267%		
63) Toluene-d8	10.565	98	269389	29.701	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	299421	143.036	ug/l	98
3) Chloromethane	2.359	50	402250	135.277	ug/l	98
4) Vinyl Chloride	2.512	62	401875	141.109	ug/l	99
5) Bromomethane	2.936	94	203863	137.107	ug/l	99
6) Chloroethane	3.112	64	272792	143.678	ug/l	96
7) Trichlorofluoromethane	3.495	101	483366	143.788	ug/l	99
8) Diethyl Ether	3.959	74	204867	144.374	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	301117	145.702	ug/l	98
10) 1,1-Dichloroethene	4.336	96	304401	143.905	ug/l	96
11) Methyl Iodide	4.583	142	373705	150.992	ug/l	97
12) Methyl Acetate	5.018	43	461659	153.979	ug/l	99
13) Acrolein	4.177	56	81825	737.319	ug/l	98
14) Acrylonitrile	5.712	53	835092	748.379	ug/l	99
15) Acetone	4.418	58	226833	737.712	ug/l	97
16) Carbon Disulfide	4.712	76	741034	132.947	ug/l	99
17) Allyl chloride	5.018	41	488863	144.536	ug/l	97
18) Methylene Chloride	5.271	84	350170	145.364	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	331115	146.862	ug/l	97
20) Diisopropyl ether	6.665	45	1209486	150.395	ug/l	96
21) 1,1-Dichloroethane	6.565	63	650070	147.673	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	419371	148.755	ug/l	98
23) tert-Butyl Alcohol	5.512	59	299669	693.246	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	1155950	147.908	ug/l	100
25) Chloroform	7.965	83	654724	146.957	ug/l	98
26) Cyclohexane	8.253	56	566144	145.656	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	474701	153.479	ug/l	99
30) 2-Butanone	7.477	43	1154112	768.782	ug/l	100
31) 2,2-Dichloropropane	7.488	77	605480	152.287	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	560564	151.669	ug/l	99
33) Carbon Tetrachloride	8.359	117	465350	152.946	ug/l	97
34) Benzene	8.600	78	1491870	151.652	ug/l	97
35) Methacrylonitrile	7.771	41	264432	154.415	ug/l	97
36) 1,2-Dichloroethane	8.665	62	487034	152.489	ug/l	100
37) Trichloroethene	9.347	130	387155	157.207	ug/l	95
38) Methylcyclohexane	9.594	83	538821	150.840	ug/l	99
39) 1,2-Dichloropropane	9.618	63	364271	149.889	ug/l	98
40) Dibromomethane	9.706	93	248997	153.205	ug/l	98
41) Bromodichloromethane	9.882	83	525304	152.734	ug/l	99
42) Vinyl Acetate	6.600	43	3696622	710.838	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086378.D
 Acq On : 23 Apr 2025 11:53
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:24:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

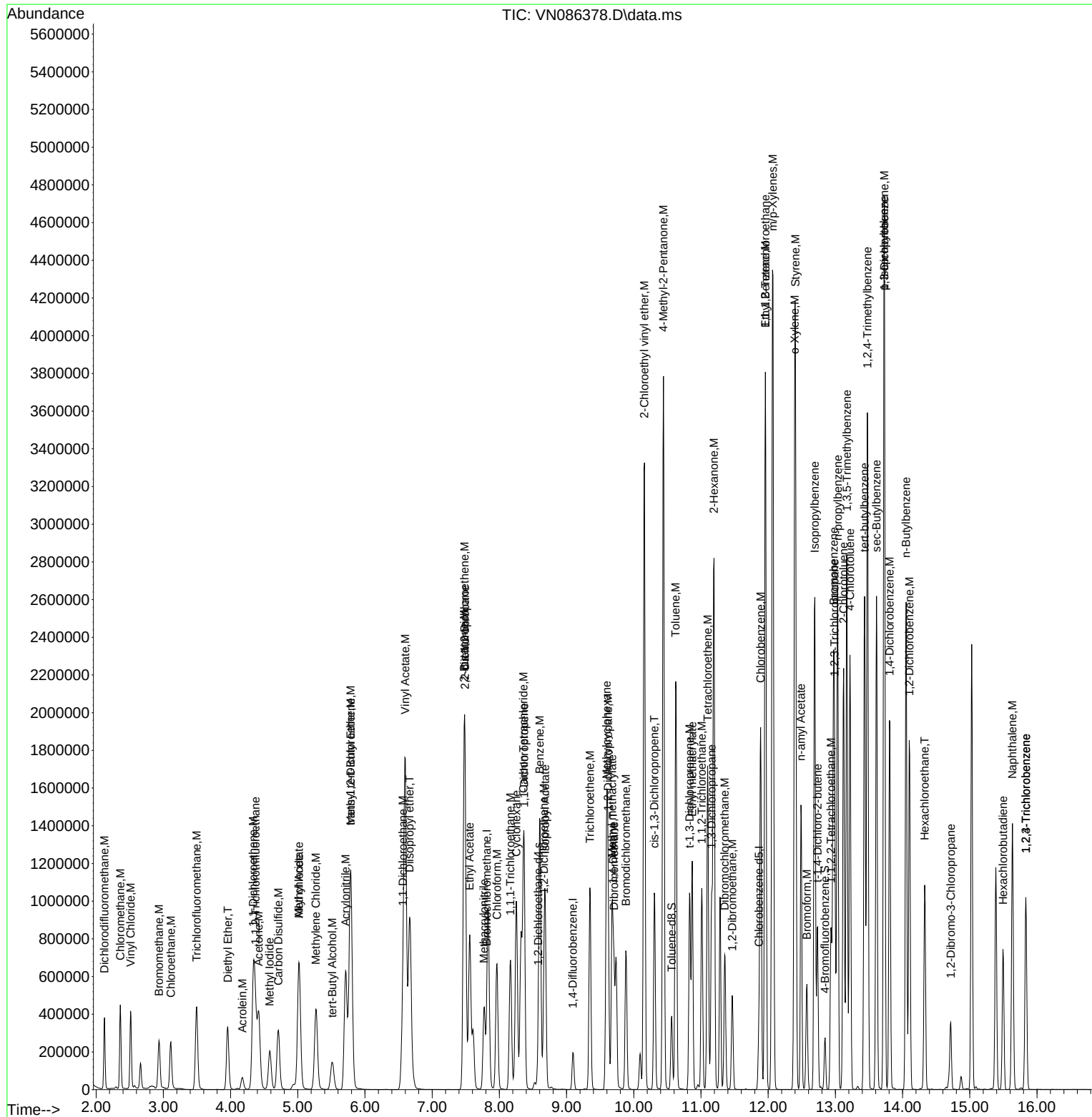
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	443217	149.188	ug/l	99
44) Isopropyl Acetate	8.683	43	834366	147.977	ug/l	98
45) 1,4-Dioxane	9.694	88	129985	2954.683	ug/l	96
46) Methyl methacrylate	9.677	41	398936	153.385	ug/l	99
47) n-amyl Acetate	12.488	43	794729	165.368	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	606406	157.708	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	632116	155.890	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	351630	154.894	ug/l	98
51) Ethyl methacrylate	10.871	69	626046	158.346	ug/l	99
52) 1,3-Dichloropropane	11.159	76	618867	154.247	ug/l	99
53) Dibromochloromethane	11.353	129	400588	157.150	ug/l	99
54) 1,2-Dibromoethane	11.465	107	357033	154.682	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	1507826	811.169	ug/l	100
56) Bromoform	12.576	173	269808	163.108	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	2458272	770.528	ug/l	100
59) 2-Hexanone	11.194	43	1818182	773.342	ug/l	99
61) Tetrachloroethene	11.100	164	388387	154.457	ug/l	96
62) Toluene	10.624	91	1668443	151.191	ug/l	99
64) Chlorobenzene	11.888	112	1045317	152.021	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	355984	154.833	ug/l	99
66) Ethyl Benzene	11.959	91	1924632	154.943	ug/l	99
67) m/p-Xylenes	12.071	106	1465950	311.039	ug/l	98
68) o-Xylene	12.394	106	723738	156.834	ug/l	98
69) Styrene	12.406	104	1271246	162.527	ug/l	100
70) Isopropylbenzene	12.694	105	1820093	158.002	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	445651	146.927	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	413811m	157.445	ug/l	
73) Bromobenzene	12.976	156	419234	158.301	ug/l	98
74) n-propylbenzene	13.035	91	2201757	160.846	ug/l	100
75) 2-Chlorotoluene	13.123	91	1351179	158.123	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	1539420	162.869	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	220662	164.423	ug/l	97
78) 4-Chlorotoluene	13.218	91	1398536	163.684	ug/l	100
79) tert-butylbenzene	13.435	119	1289675	159.319	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	1578141	163.487	ug/l	97
81) sec-Butylbenzene	13.612	105	1869347	161.777	ug/l	99
82) p-Isopropyltoluene	13.723	119	1628968	168.473	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	833116	166.415	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	817212	165.219	ug/l	99
85) n-Butylbenzene	14.053	91	1470566	170.449	ug/l	99
86) Hexachloroethane	14.329	117	267570	169.237	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	773464	162.374	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	98763	160.195	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	358682	165.211	ug/l	99
90) Hexachlorobutadiene	15.494	225	132753	151.803	ug/l	98
91) Naphthalene	15.635	128	1293022	166.356	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	358682	165.211	ug/l	99

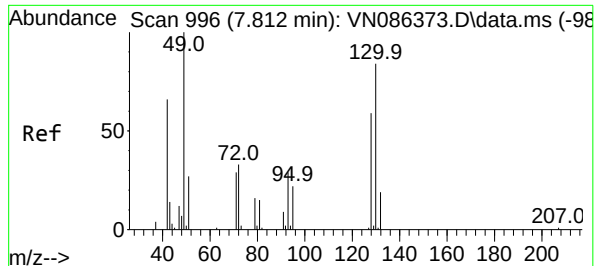
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025





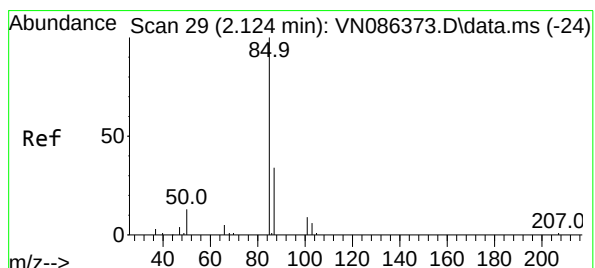
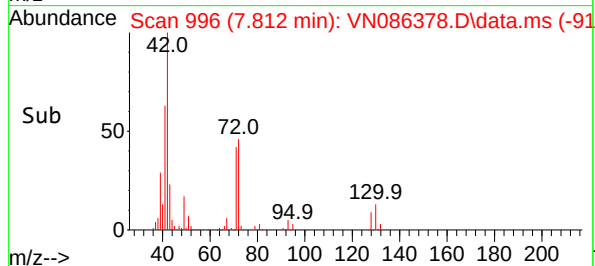
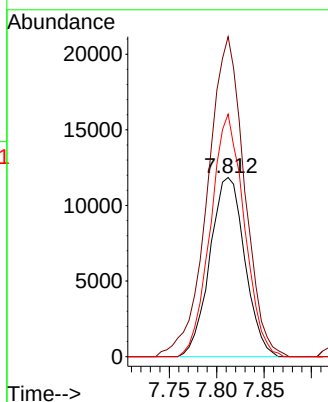
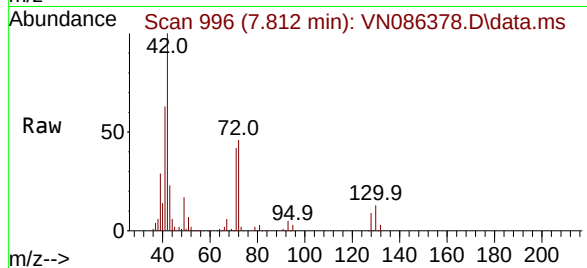
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion	Ratio	Lower	Upper
128	100		
49	189.2	0.0	433.8
130	131.0	0.0	325.0

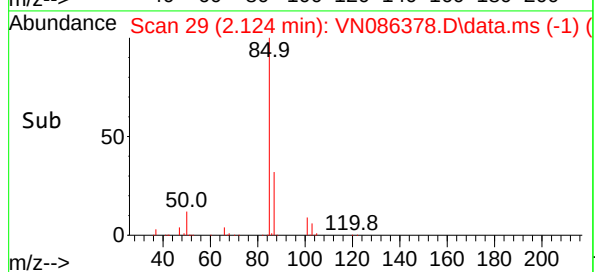
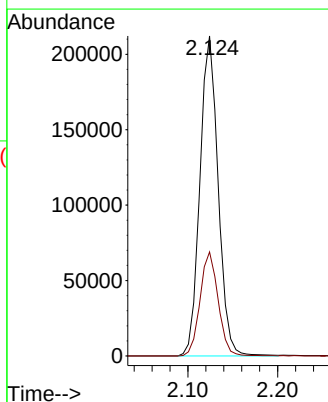
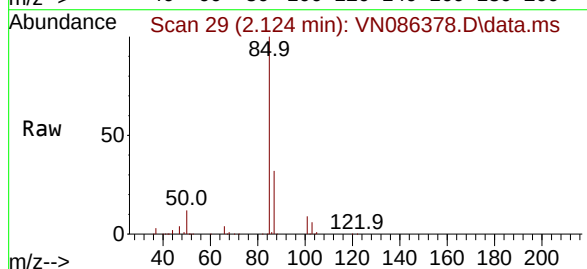
Manual Integrations
APPROVED

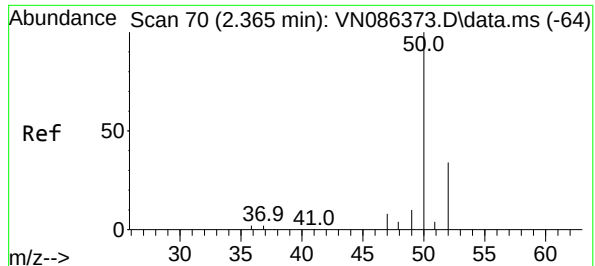
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 143.036 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.0	50.9





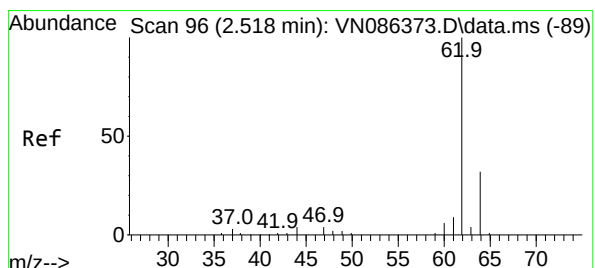
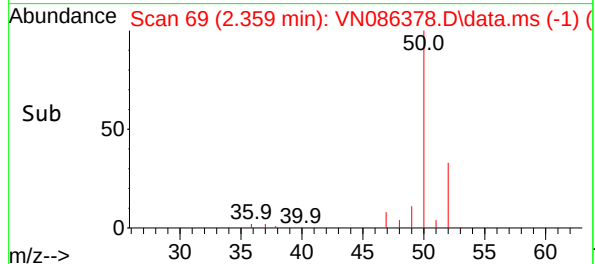
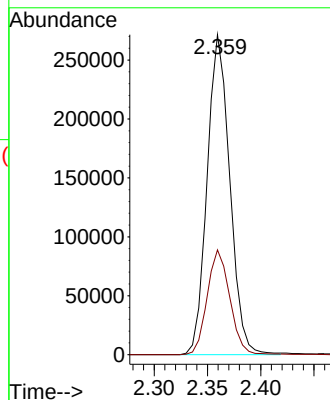
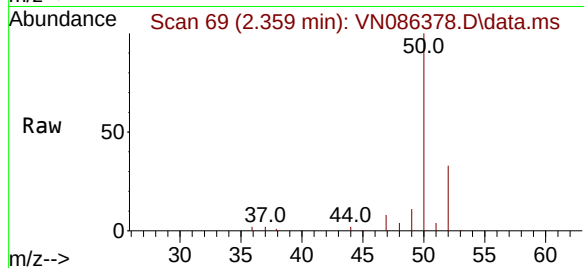
#3
Chloromethane
Concen: 135.277 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 402250
Ion Ratio Lower Upper
50 100
52 32.8 27.3 40.9

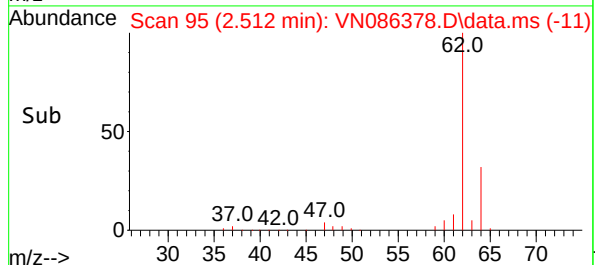
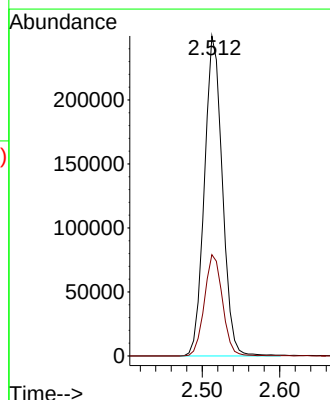
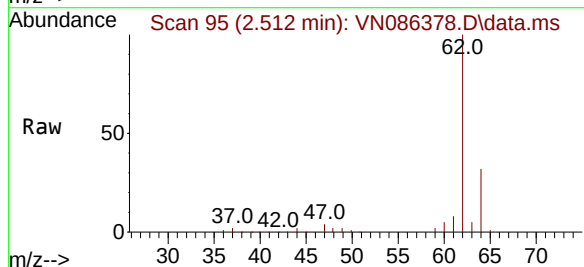
Manual Integrations
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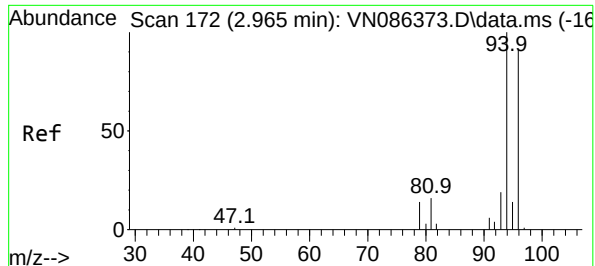
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 141.109 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

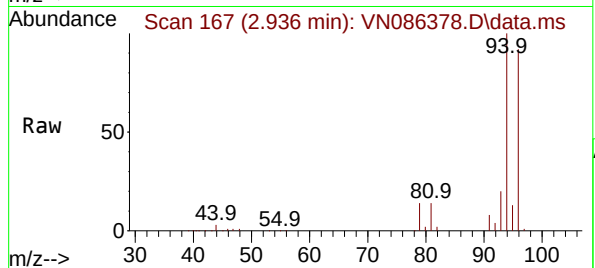
Tgt Ion: 62 Resp: 401875
Ion Ratio Lower Upper
62 100
64 31.7 25.8 38.8





#5
Bromomethane
Concen: 137.107 ug/l
RT: 2.936 min Scan# 1
Delta R.T. -0.029 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

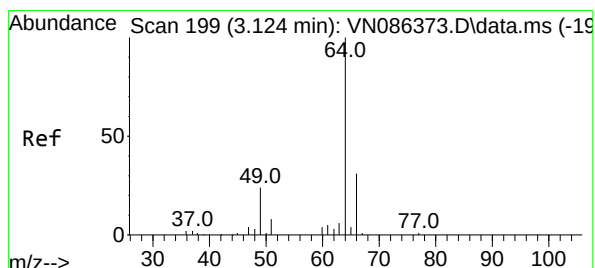
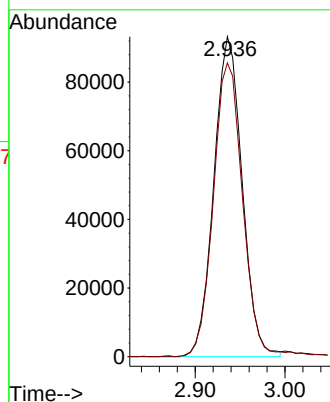
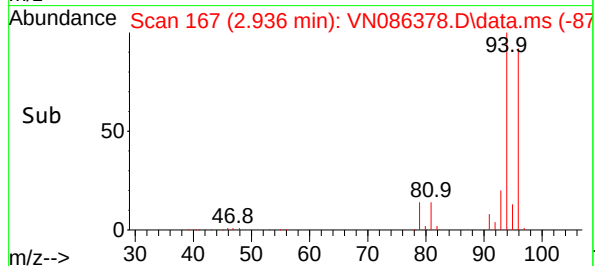
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion: 94 Resp: 20386
Ion Ratio Lower Upper
94 100
96 91.6 72.4 108.6

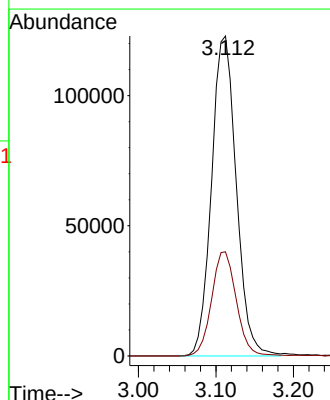
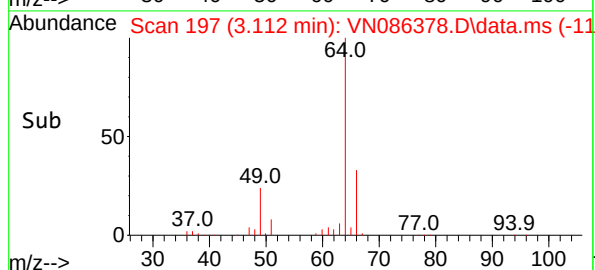
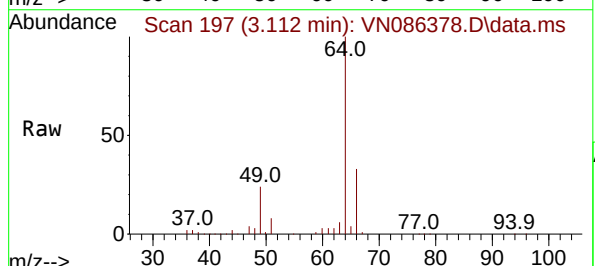
Manual Integrations
APPROVED

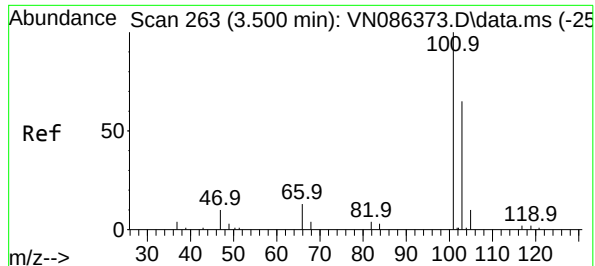
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 143.678 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

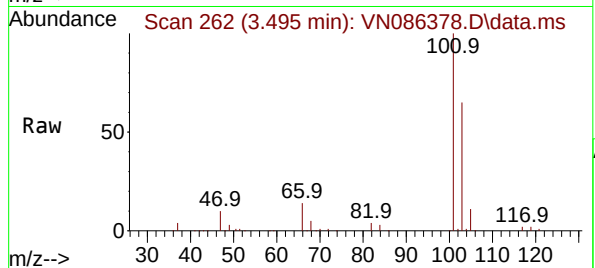
Tgt Ion: 64 Resp: 272792
Ion Ratio Lower Upper
64 100
66 32.5 24.5 36.7





#7
Trichlorofluoromethane
Concen: 143.788 ug/l
RT: 3.495 min Scan# 263
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

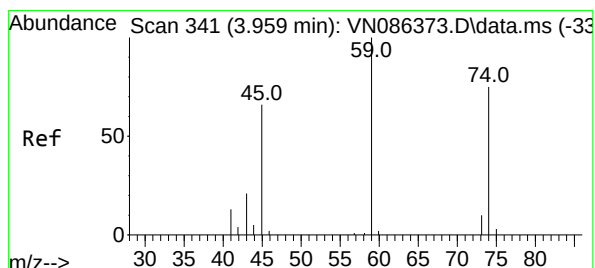
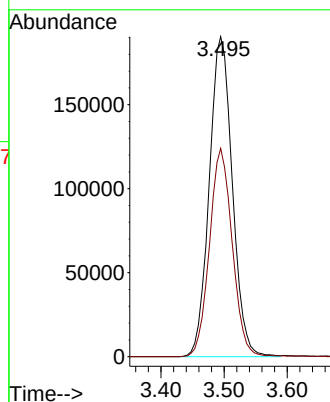
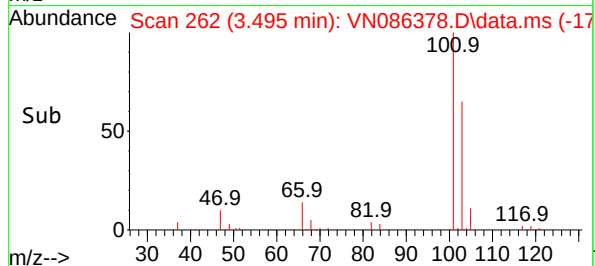
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion:101 Resp: 483360
Ion Ratio Lower Upper
101 100
103 65.1 51.8 77.6

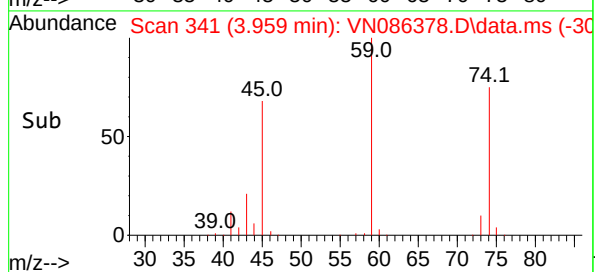
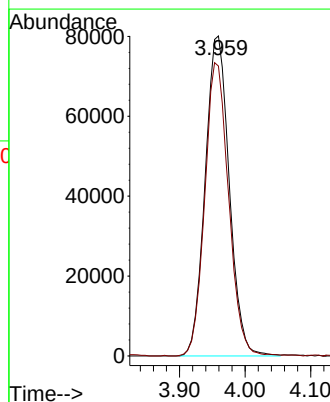
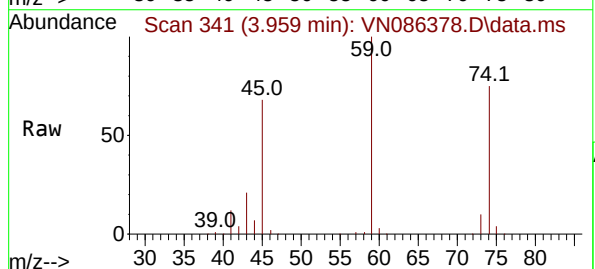
Manual Integrations
APPROVED

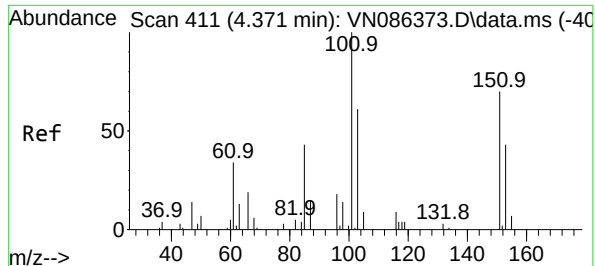
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 144.374 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 74 Resp: 204867
Ion Ratio Lower Upper
74 100
45 90.5 18.5 166.3





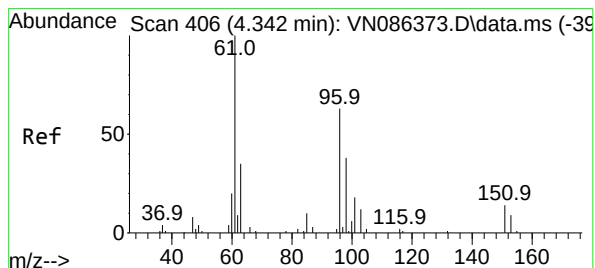
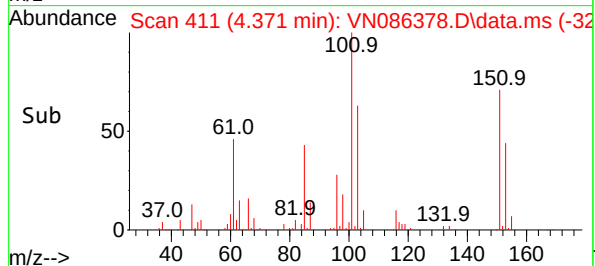
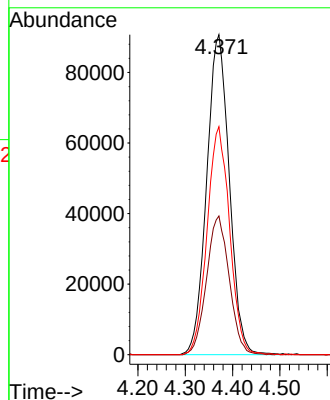
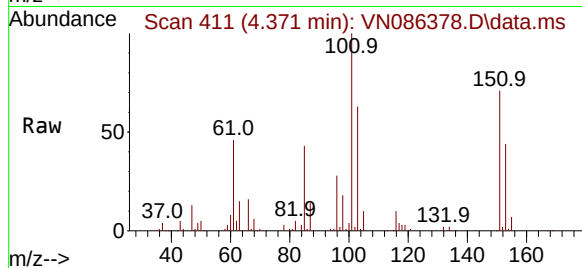
#9
1,1,2-Trichlorotrifluoroethane
Concen: 145.702 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 30111
Ion Ratio Lower Upper
101 100
85 43.5 0.0 84.4
151 70.6 0.0 145.8

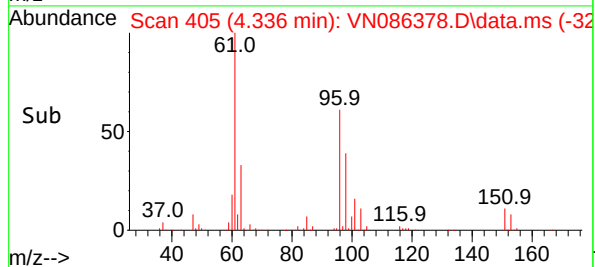
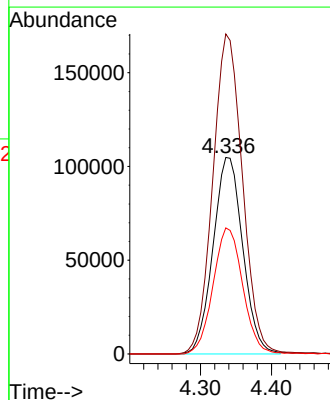
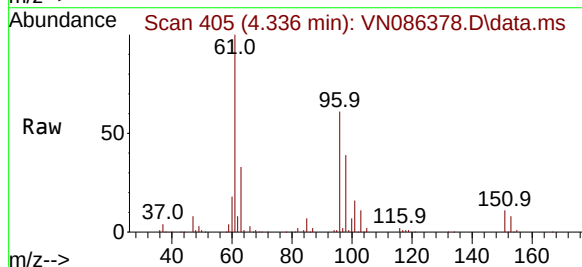
Manual Integrations
APPROVED

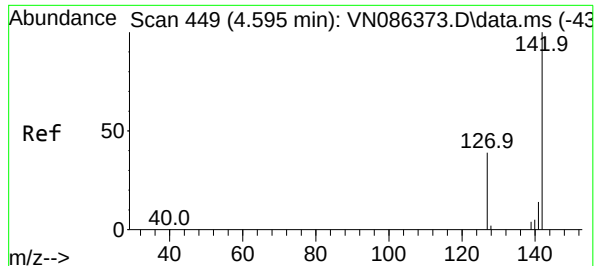
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 143.905 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 96 Resp: 304401
Ion Ratio Lower Upper
96 100
61 162.7 126.2 189.4
98 64.2 48.5 72.7





#11

Methyl Iodide

Concen: 150.992 ug/l

RT: 4.583 min Scan# 449

Delta R.T. -0.012 min

Lab File: VN086378.D

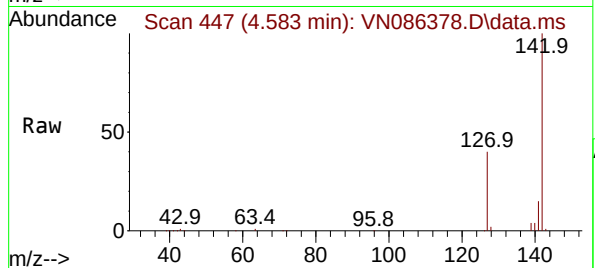
Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150



Tgt Ion:142 Resp: 37370

Ion Ratio Lower Upper

142 100

127 40.3 19.3 57.9

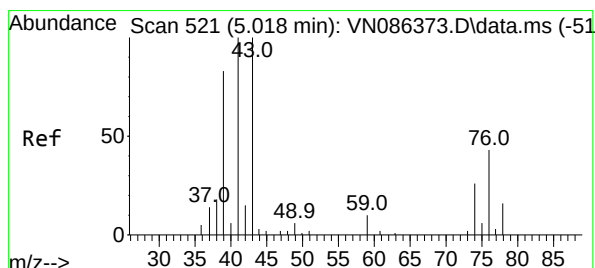
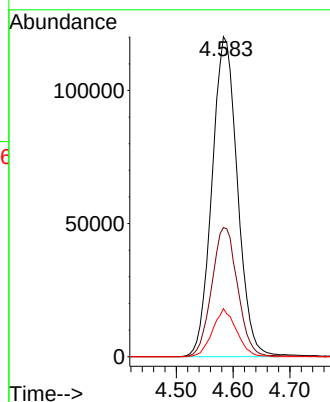
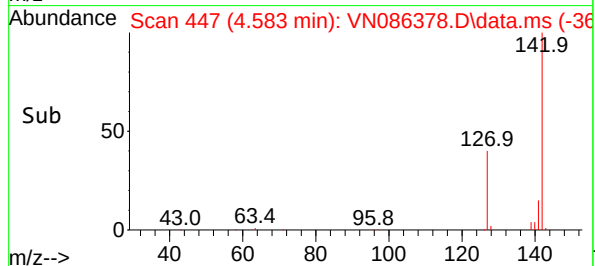
141 15.0 7.1 21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 153.979 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086378.D

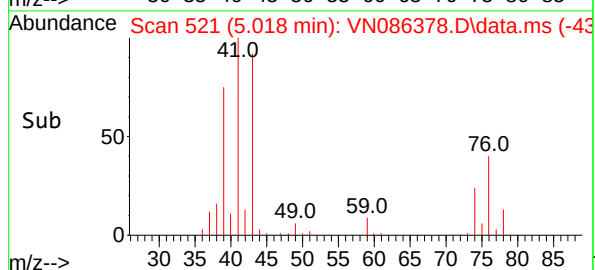
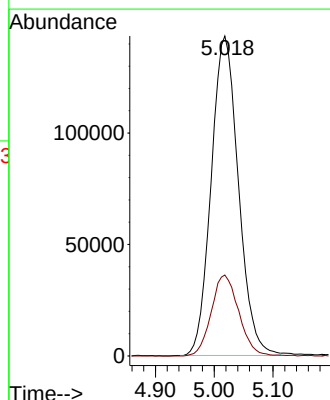
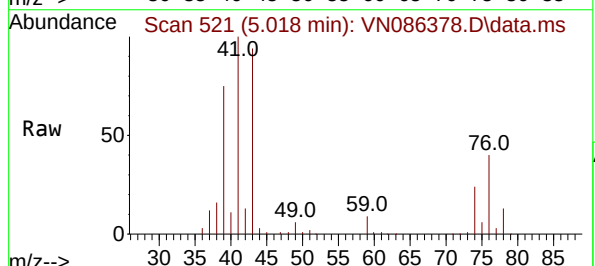
Acq: 23 Apr 2025 11:53

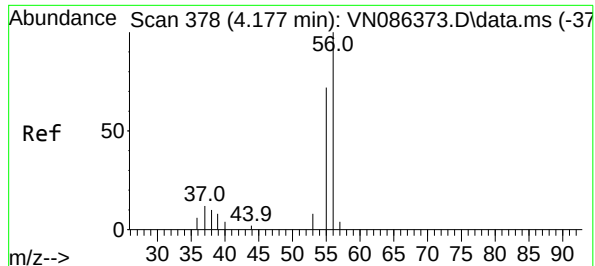
Tgt Ion: 43 Resp: 461659

Ion Ratio Lower Upper

43 100

74 25.3 20.8 31.2





#13

Acrolein

Concen: 737.319 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 8182

Ion Ratio Lower Upper

56 100

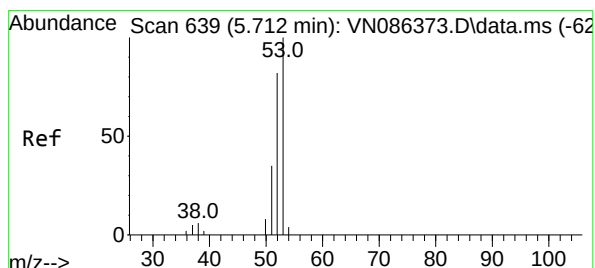
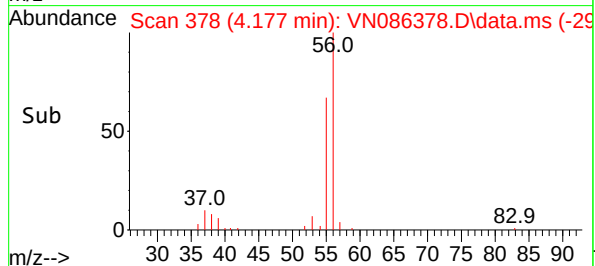
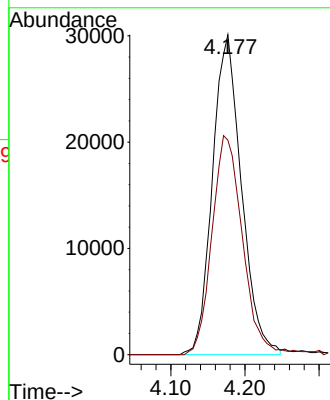
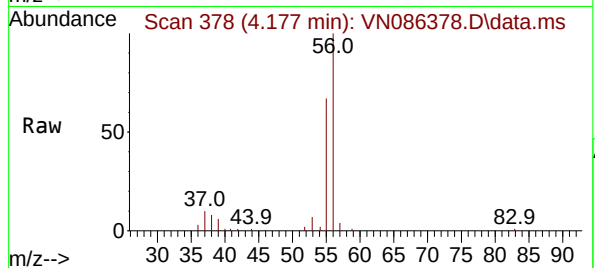
55 71.7 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 748.379 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

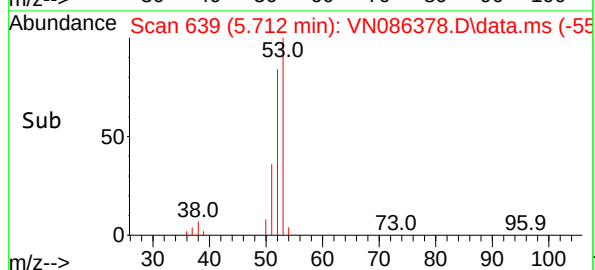
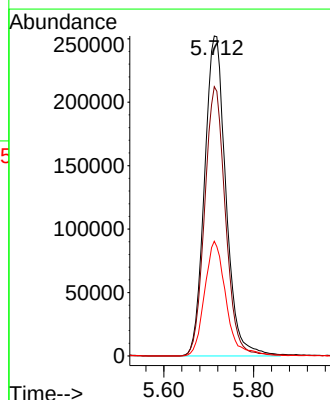
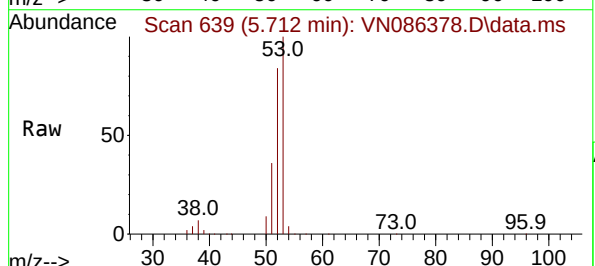
Tgt Ion: 53 Resp: 835092

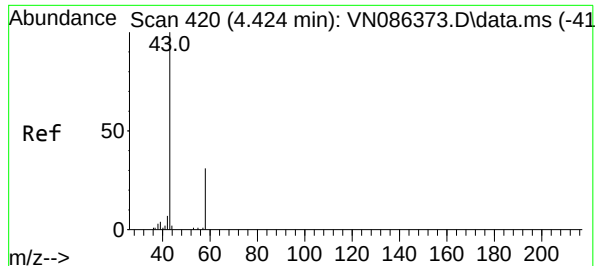
Ion Ratio Lower Upper

53 100

52 81.7 41.2 123.6

51 36.0 17.6 52.8





#15

Acetone

Concen: 737.712 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 58 Resp: 22683

Ion Ratio Lower Upper

58 100

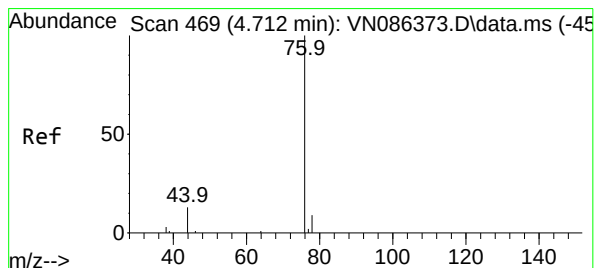
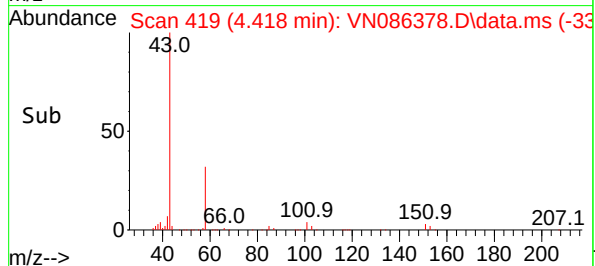
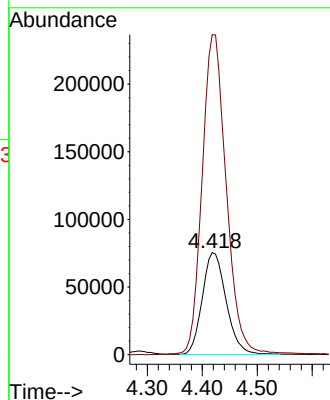
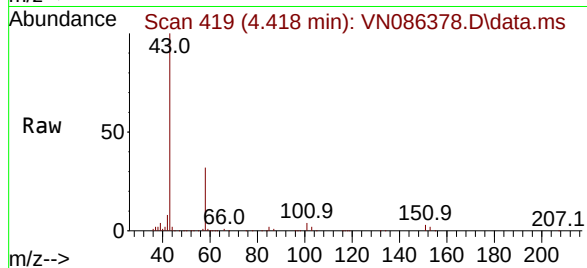
43 312.9 255.1 382.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 132.947 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086378.D

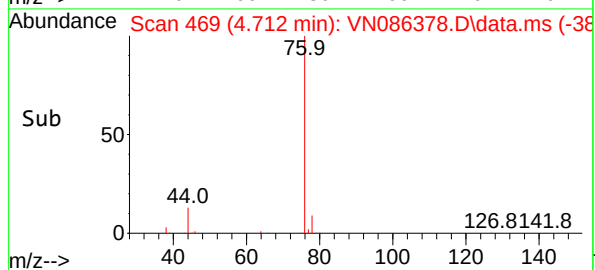
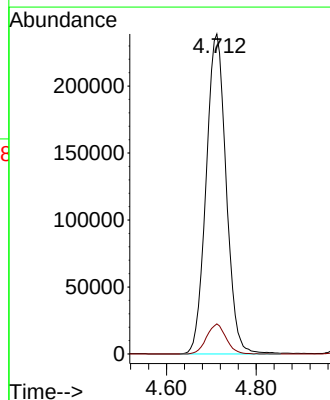
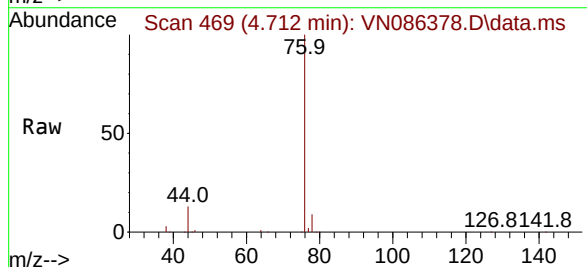
Acq: 23 Apr 2025 11:53

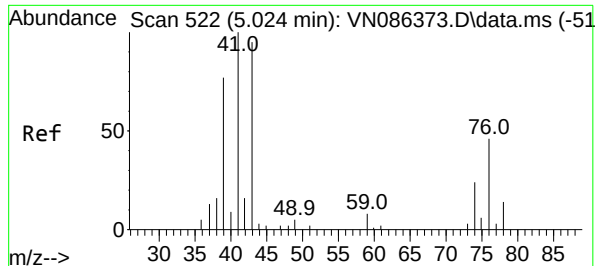
Tgt Ion: 76 Resp: 741034

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7





#17

Allyl chloride

Concen: 144.536 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 48886

Ion Ratio Lower Upper

41 100

39 75.2 36.7 110.1

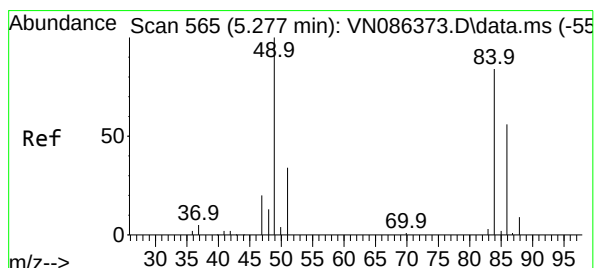
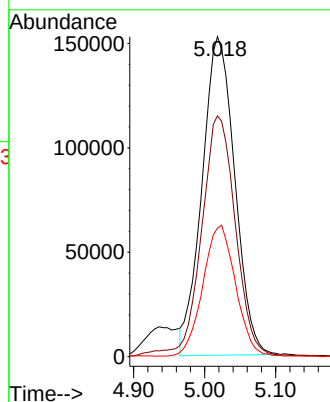
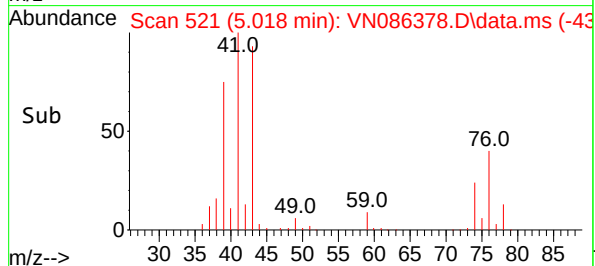
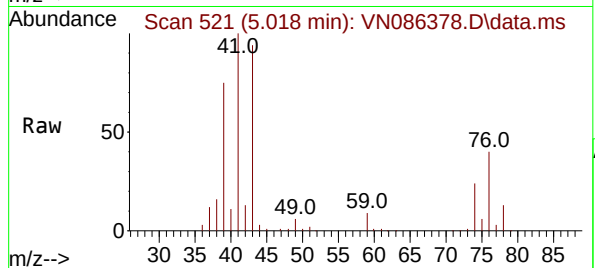
76 40.1 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 145.364 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Tgt Ion: 84 Resp: 350170

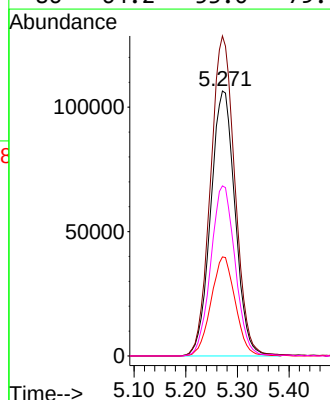
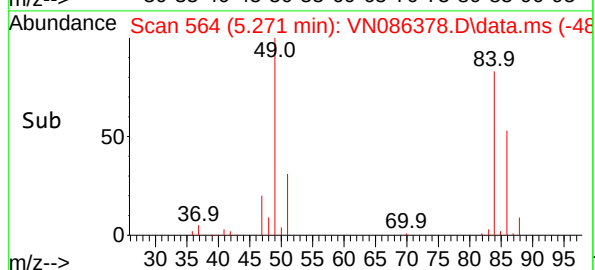
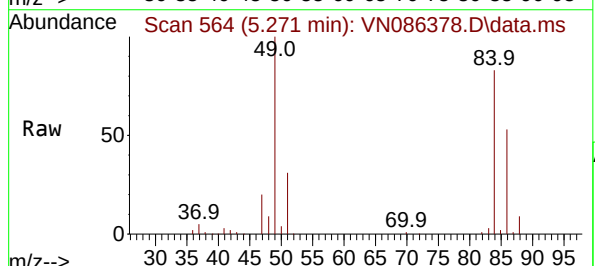
Ion Ratio Lower Upper

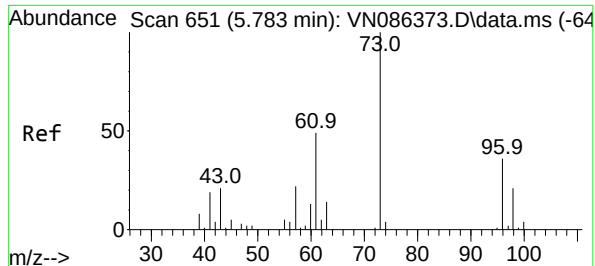
84 100

49 120.8 95.4 143.0

51 37.4 32.8 49.2

86 64.2 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 146.862 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 33111

Ion Ratio Lower Upper

96 100

61 135.3 107.3 160.9

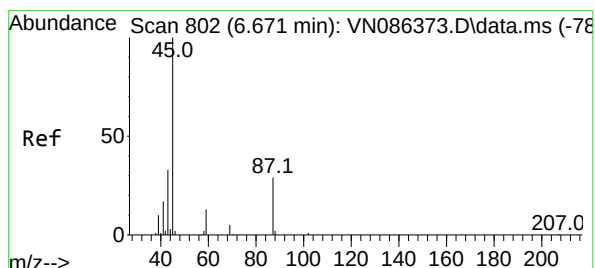
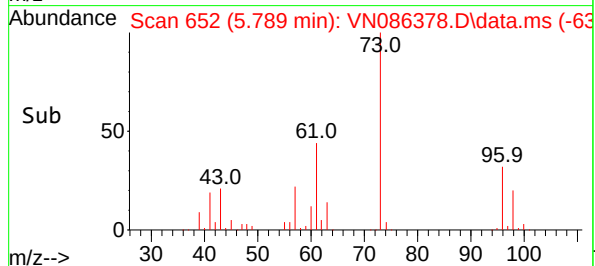
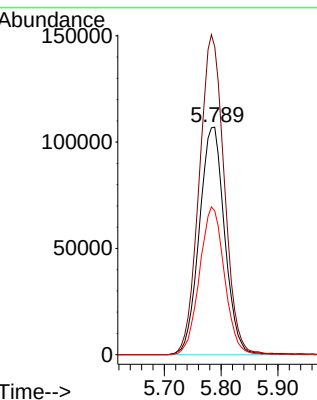
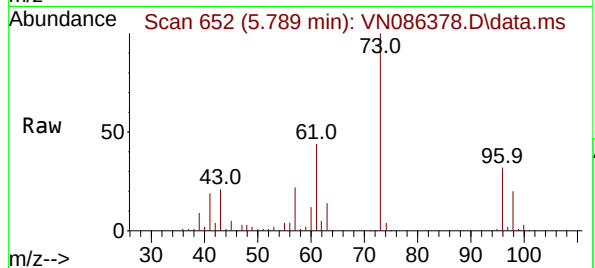
98 63.2 46.7 70.1

Manual Integrations

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Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 150.395 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Tgt Ion: 45 Resp: 1209486

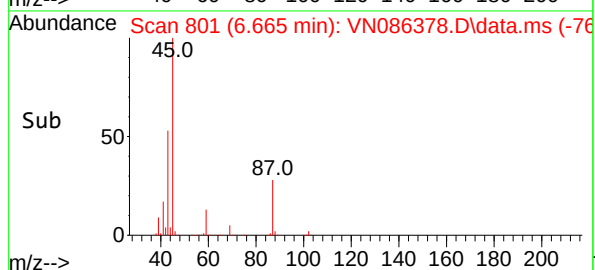
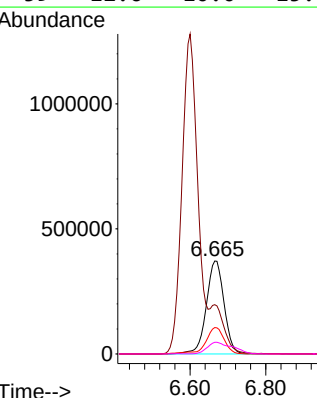
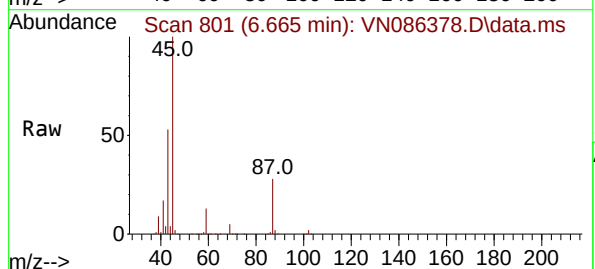
Ion Ratio Lower Upper

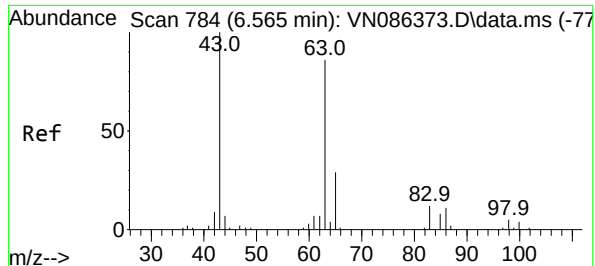
45 100

43 52.6 38.8 58.2

87 28.4 23.5 35.3

59 12.6 10.0 15.0





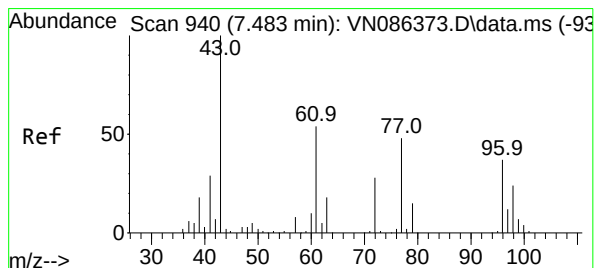
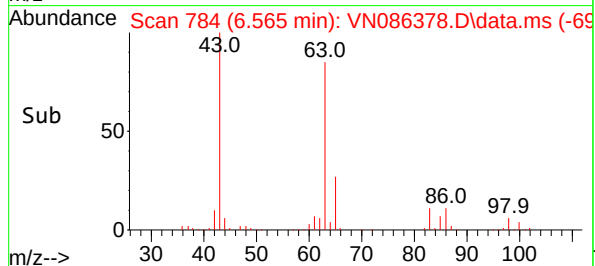
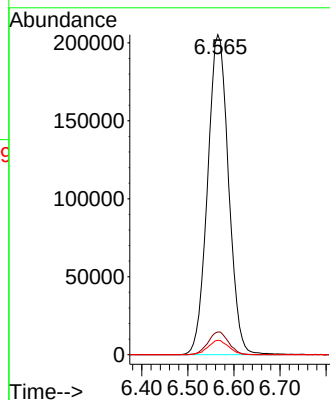
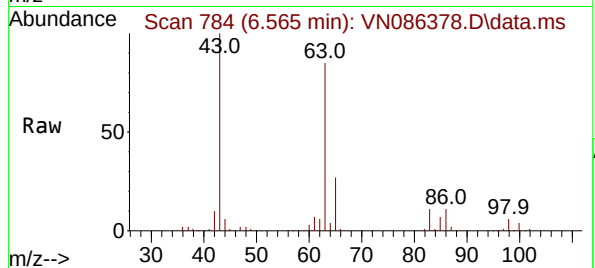
#21
1,1-Dichloroethane
Concen: 147.673 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 63 Resp: 650070
Ion Ratio Lower Upper
63 100
98 7.1 3.0 9.2
100 4.5 2.3 6.8

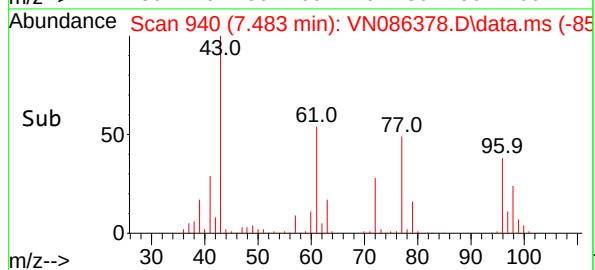
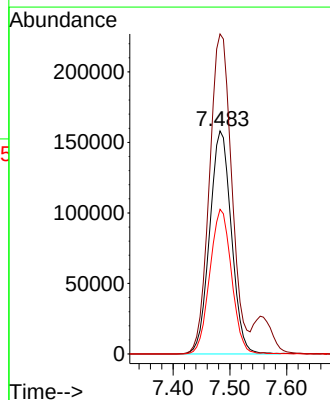
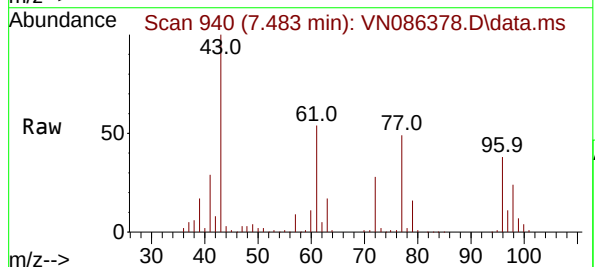
Manual Integrations
APPROVED

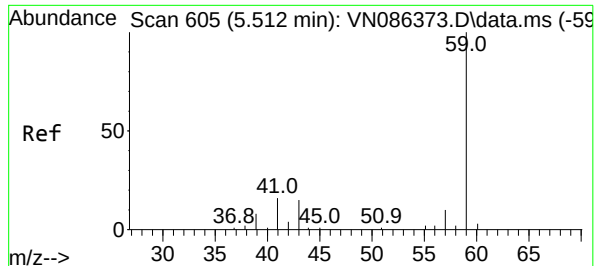
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 148.755 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

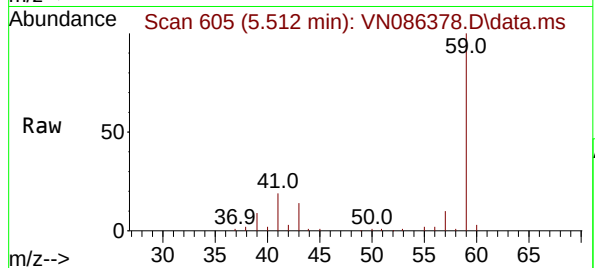
Tgt Ion: 96 Resp: 419371
Ion Ratio Lower Upper
96 100
61 147.8 120.6 181.0
98 64.7 51.8 77.6





#23
tert-Butyl Alcohol
Concen: 693.246 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

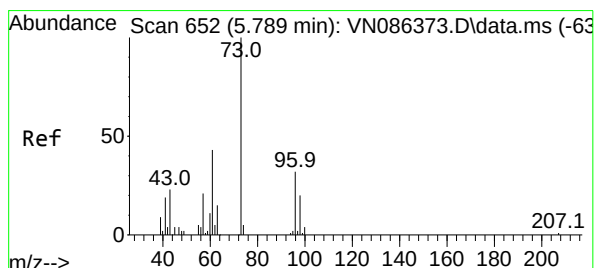
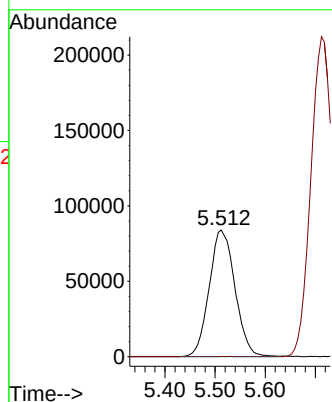
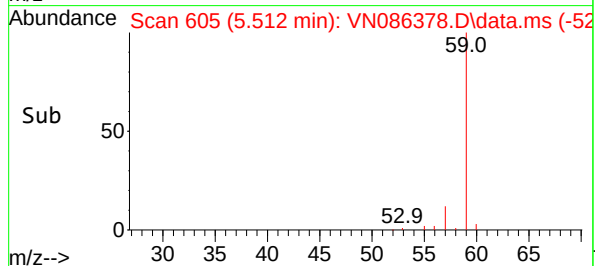
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion: 59 Resp: 299669
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1

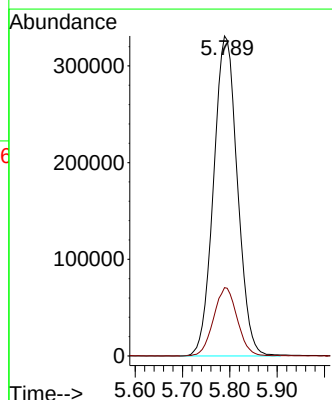
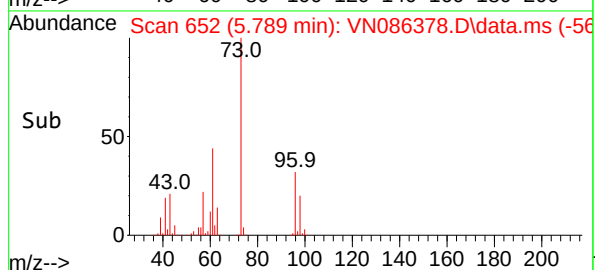
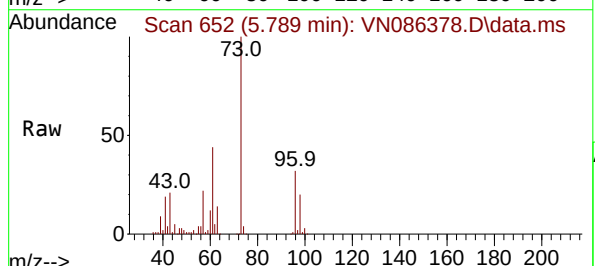
Manual Integrations
APPROVED

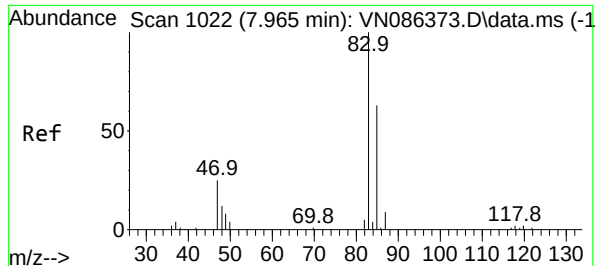
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#24
Methyl tert-Butyl Ether
Concen: 147.908 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 73 Resp: 1155950
Ion Ratio Lower Upper
73 100
43 21.2 17.1 25.7





#25

Chloroform

Concen: 146.957 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 654724

Ion Ratio Lower Upper

83 100

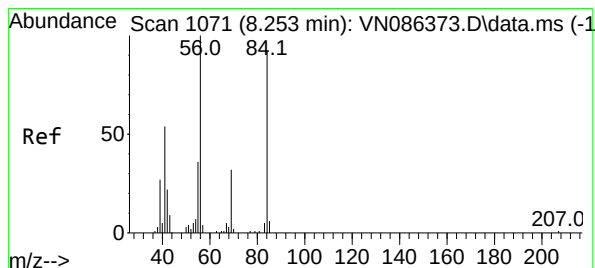
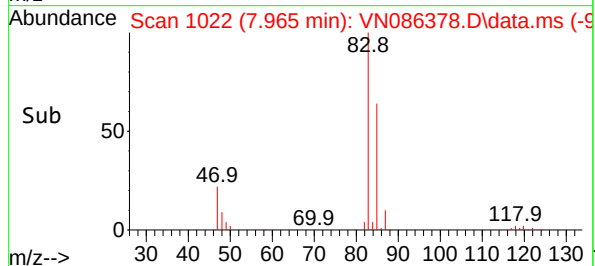
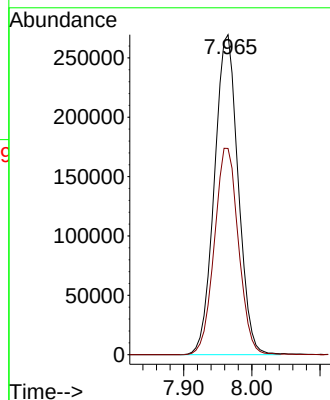
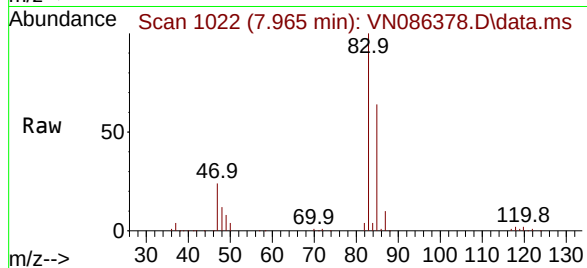
85 64.4 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 145.656 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

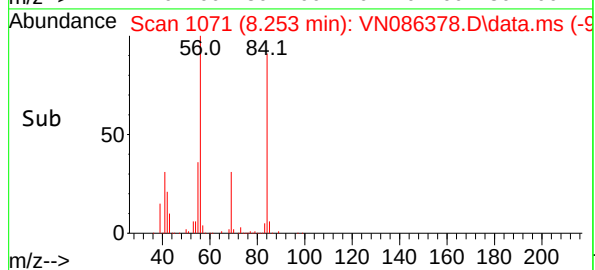
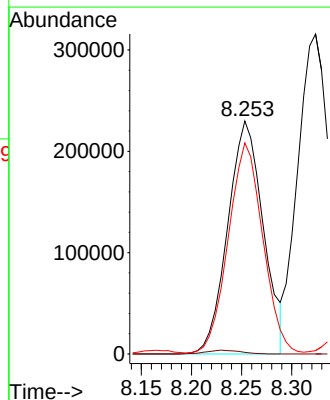
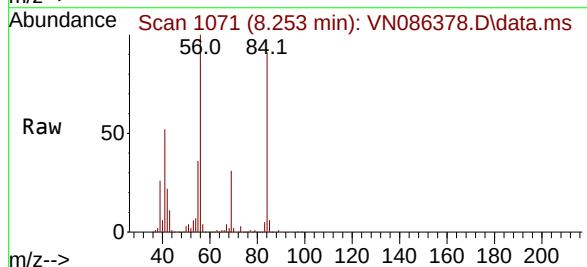
Tgt Ion: 56 Resp: 566144

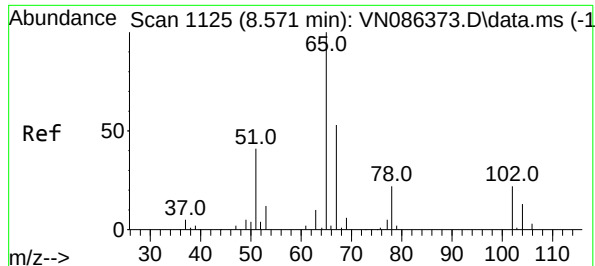
Ion Ratio Lower Upper

56 100

89 1.5 0.0 0.0#

84 88.5 71.5 107.3





#27

1,2-Dichloroethane-d4

Concen: 29.005 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 8479

Ion Ratio Lower Upper

65 100

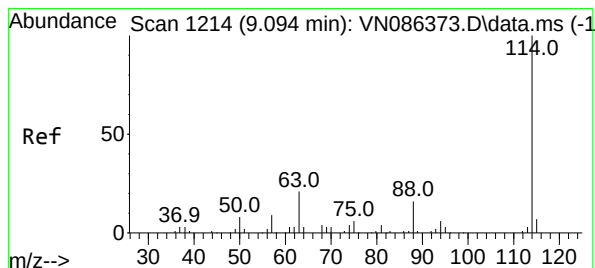
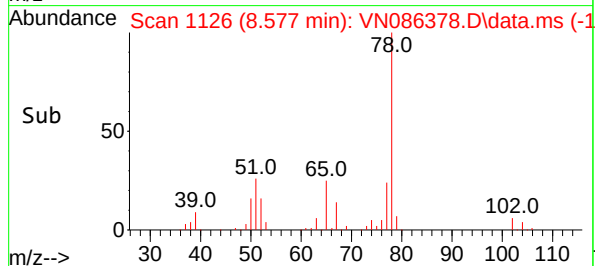
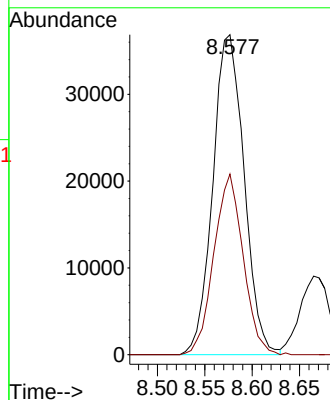
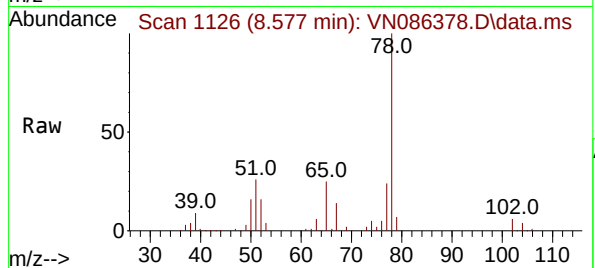
67 52.7 42.5 63.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

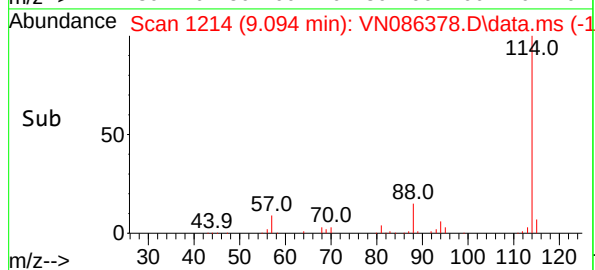
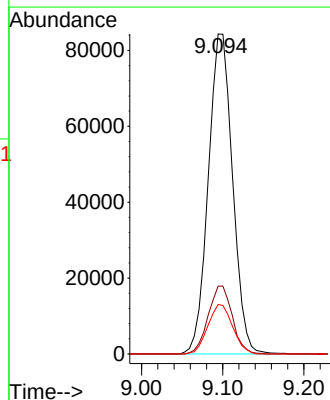
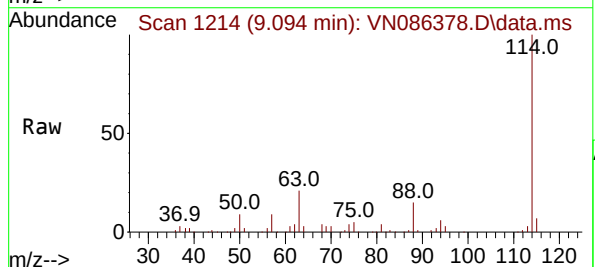
Tgt Ion:114 Resp: 175444

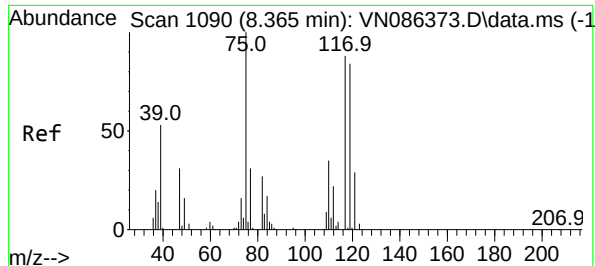
Ion Ratio Lower Upper

114 100

63 21.0 16.7 25.1

88 15.7 12.6 19.0





#29

1,1-Dichloropropene

Concen: 153.479 ug/l

RT: 8.371 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 47470

Ion Ratio Lower Upper

75 100

110 34.5 0.0 68.0

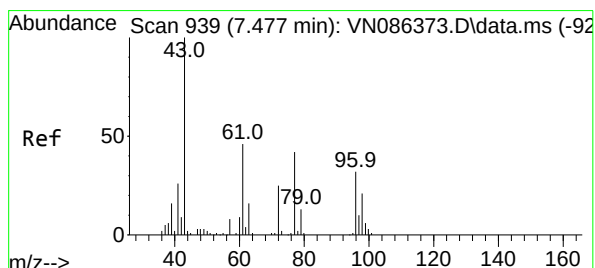
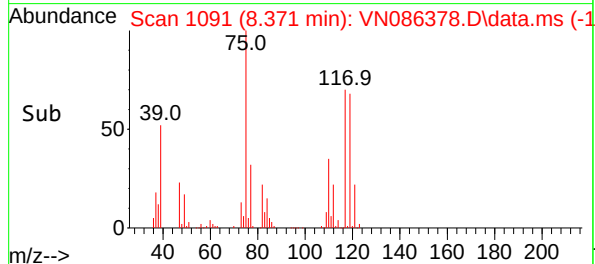
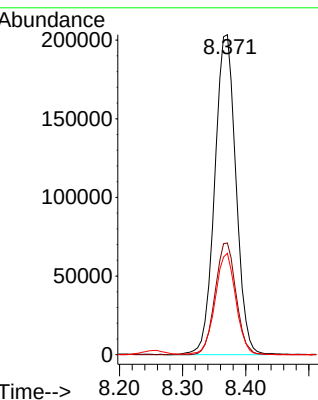
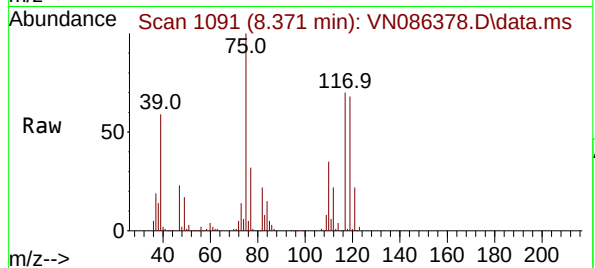
77 31.1 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 768.782 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

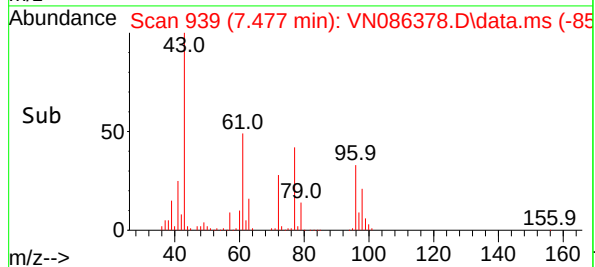
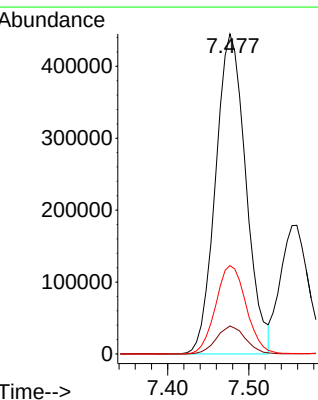
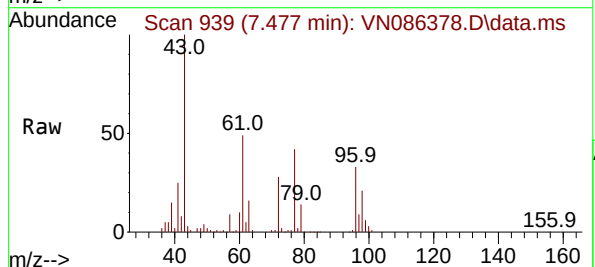
Tgt Ion: 43 Resp: 1154112

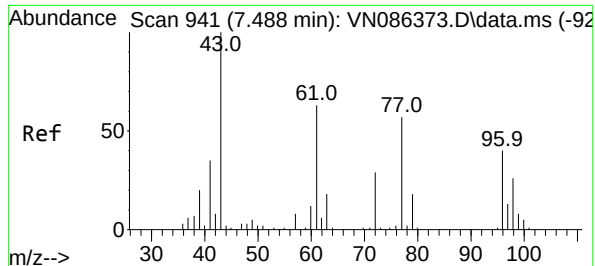
Ion Ratio Lower Upper

43 100

57 8.4 6.6 10.0

72 27.9 22.2 33.4





#31

2,2-Dichloropropane

Concen: 152.287 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 77 Resp: 605480

Ion Ratio Lower Upper

77 100

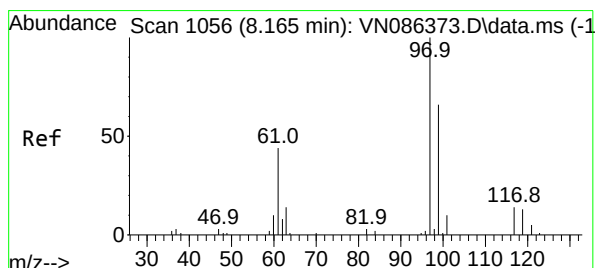
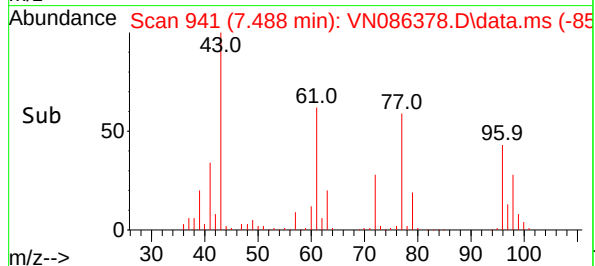
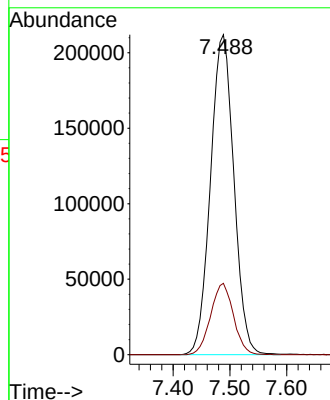
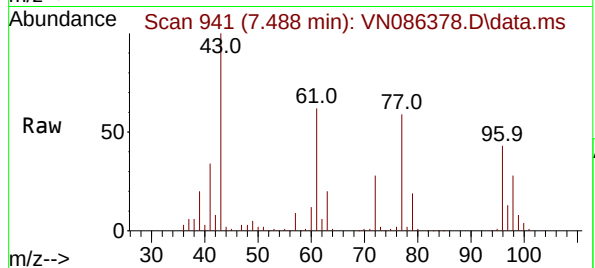
97 21.8 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#32

1,1,1-Trichloroethane

Concen: 151.669 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

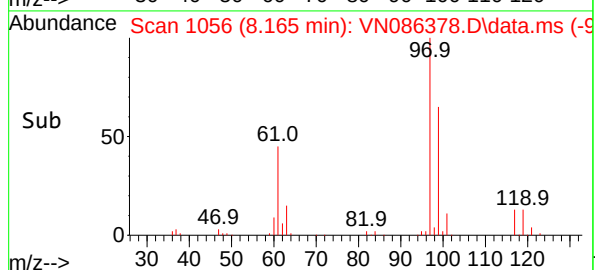
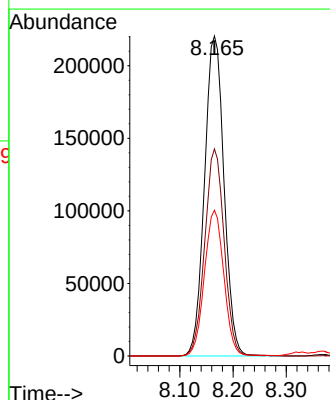
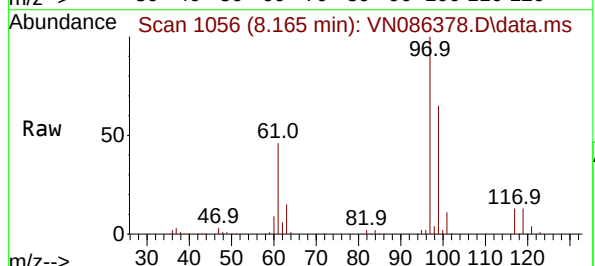
Tgt Ion: 97 Resp: 560564

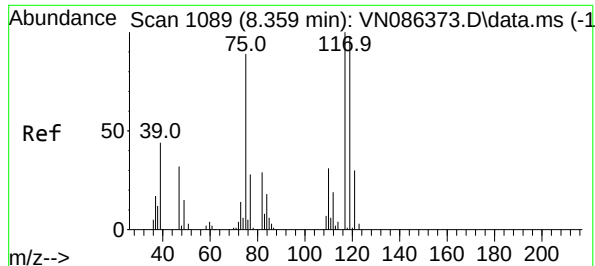
Ion Ratio Lower Upper

97 100

99 64.4 52.6 79.0

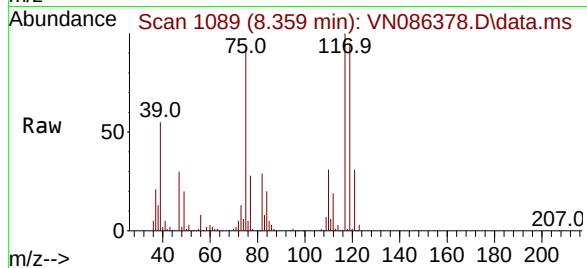
61 45.4 36.4 54.6





#33
Carbon Tetrachloride
Concen: 152.946 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

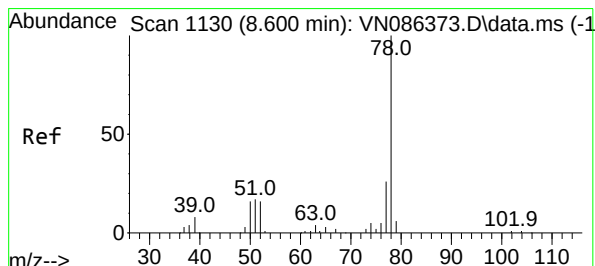
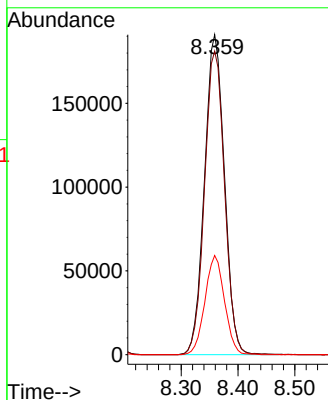
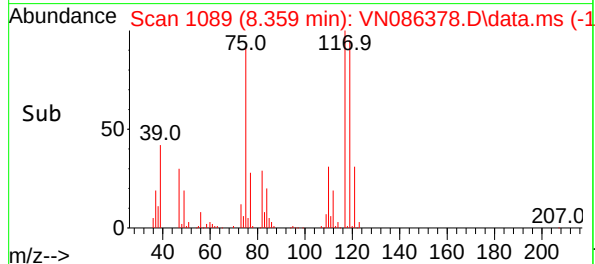
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 117 Resp: 465350
Ion Ratio Lower Upper
117 100
119 94.9 78.6 117.8
121 31.0 24.0 36.0

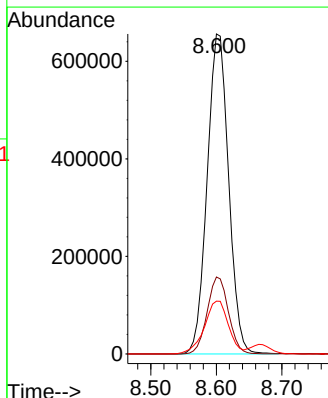
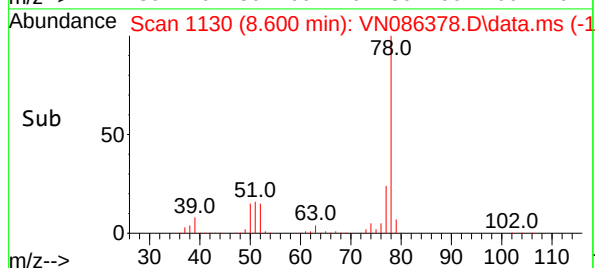
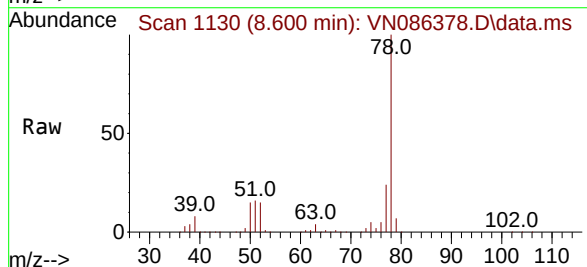
Manual Integrations
APPROVED

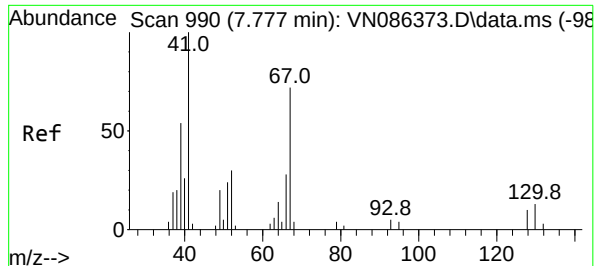
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 151.652 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 78 Resp: 1491870
Ion Ratio Lower Upper
78 100
77 24.0 20.8 31.2
51 16.3 14.0 21.0





#35

Methacrylonitrile

Concen: 154.415 ug/l

RT: 7.771 min Scan# 989

Delta R.T. -0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 26443

Ion Ratio Lower Upper

41 100

39 54.6 27.0 80.8

67 74.1 35.8 107.3

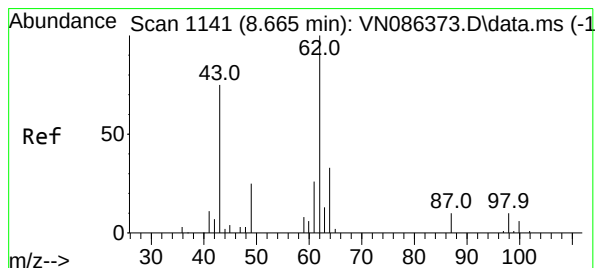
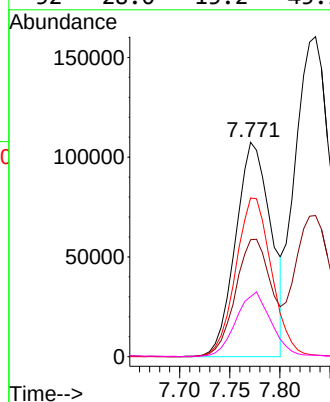
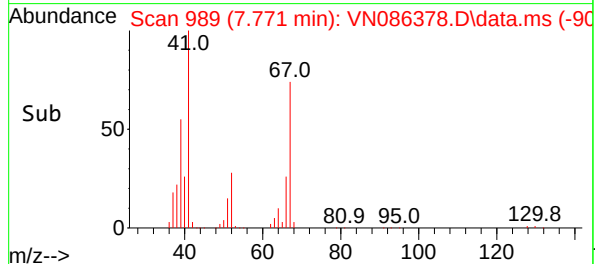
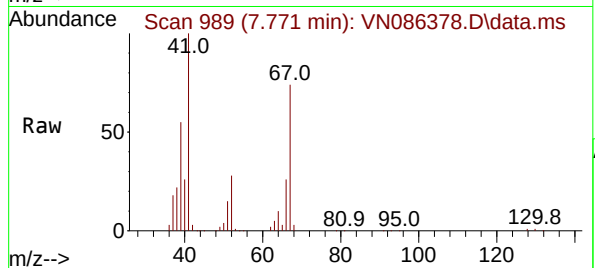
52 28.0 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 152.489 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN086378.D

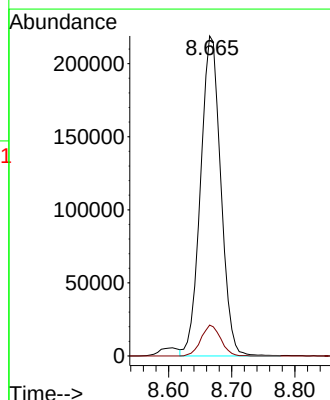
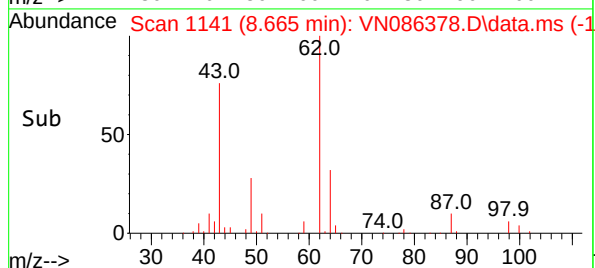
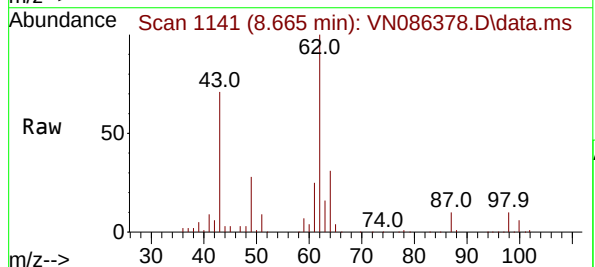
Acq: 23 Apr 2025 11:53

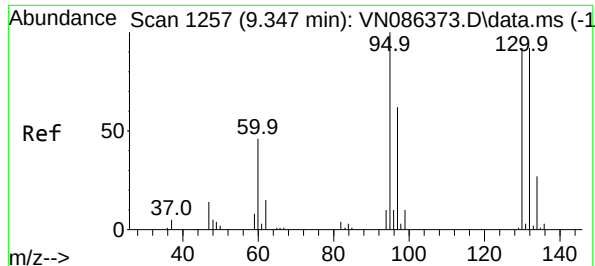
Tgt Ion: 62 Resp: 487034

Ion Ratio Lower Upper

62 100

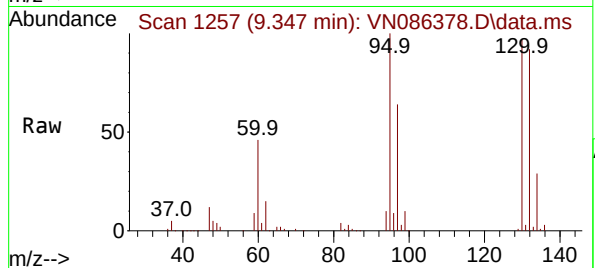
98 9.4 7.6 11.4





#37
Trichloroethene
Concen: 157.207 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

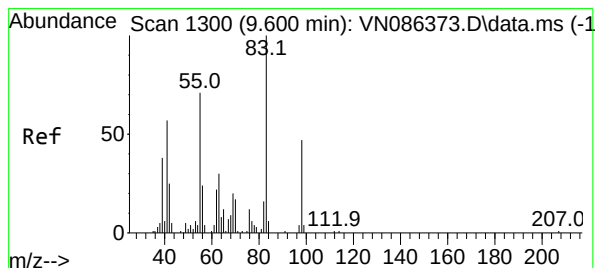
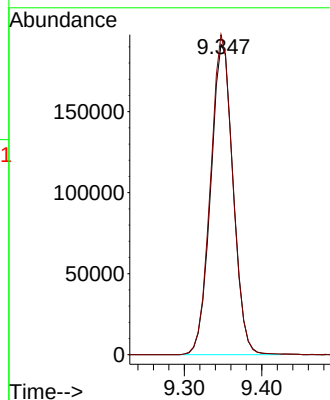
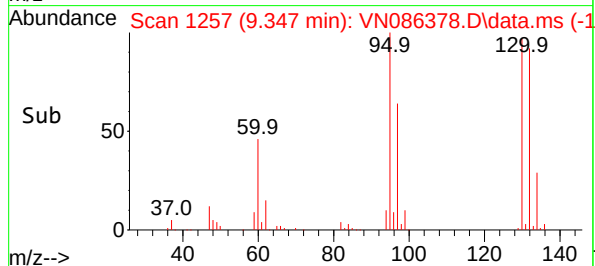
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



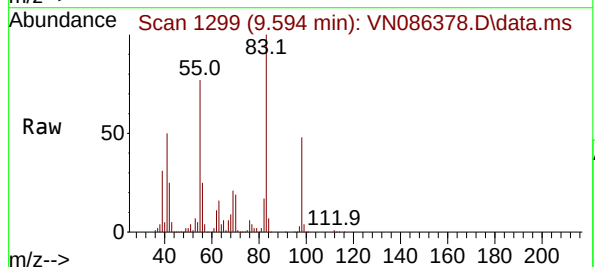
Tgt Ion:130 Resp: 38715
Ion Ratio Lower Upper
130 100
95 103.1 86.6 130.0

Manual Integrations
APPROVED

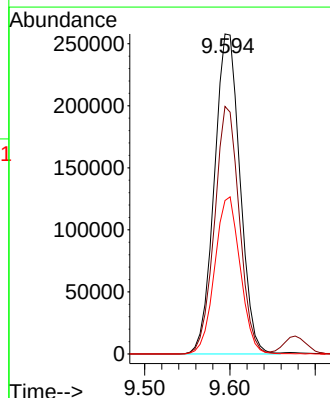
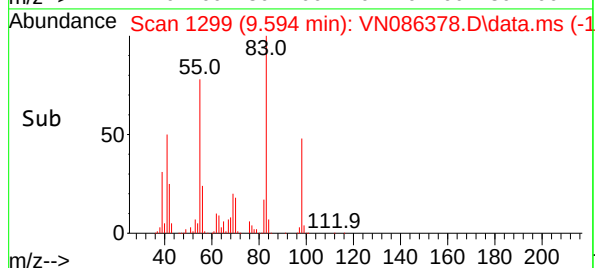
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

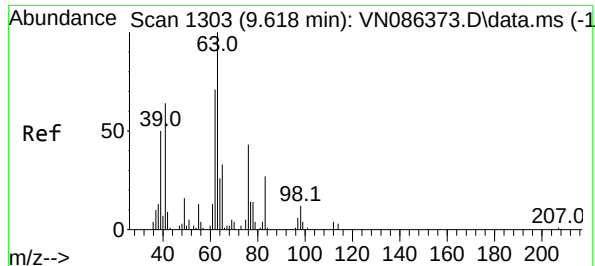


#38
Methylcyclohexane
Concen: 150.840 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53



Tgt Ion: 83 Resp: 538821
Ion Ratio Lower Upper
83 100
55 75.2 37.3 111.9
98 48.9 23.8 71.5





#39

1,2-Dichloropropane

Concen: 149.889 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 36427

Ion Ratio Lower Upper

63 100

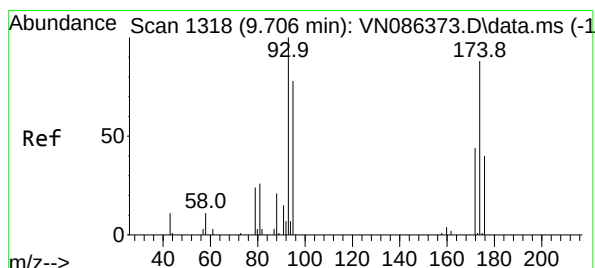
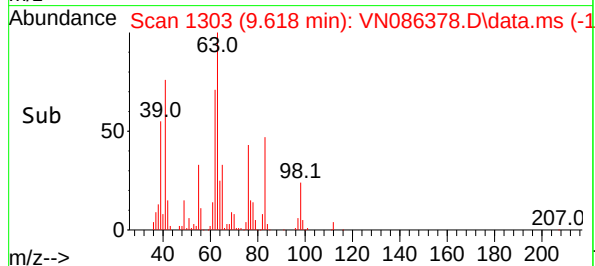
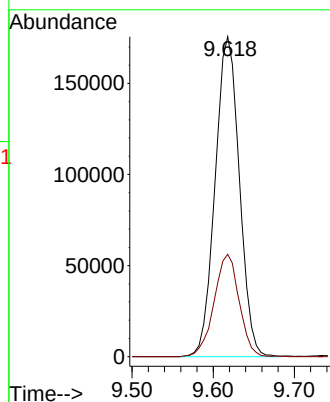
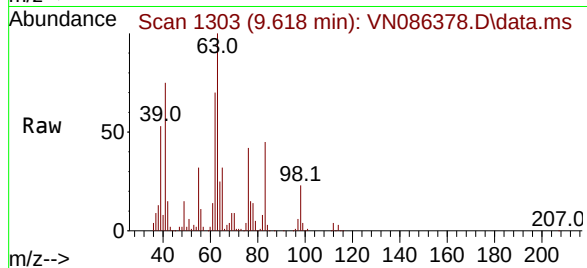
65 32.0 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 153.205 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

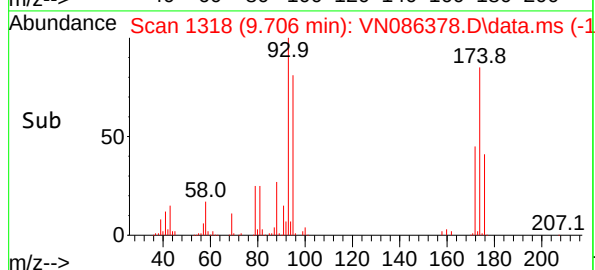
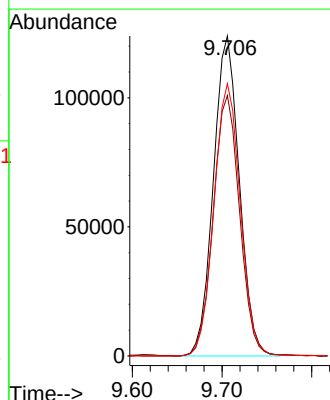
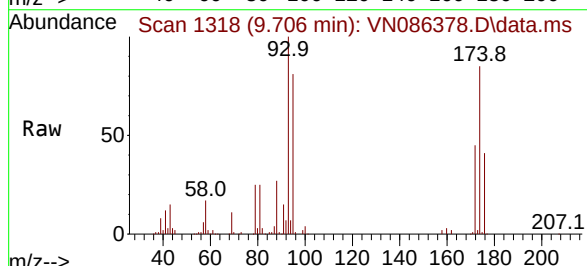
Tgt Ion: 93 Resp: 248997

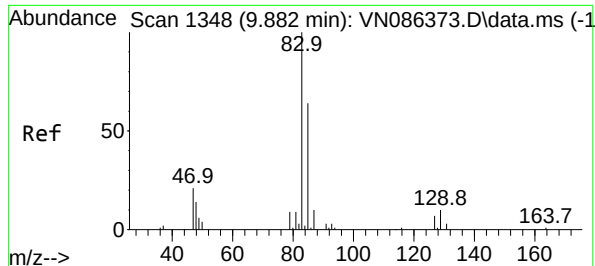
Ion Ratio Lower Upper

93 100

95 82.7 0.0 159.2

174 86.4 0.0 171.4





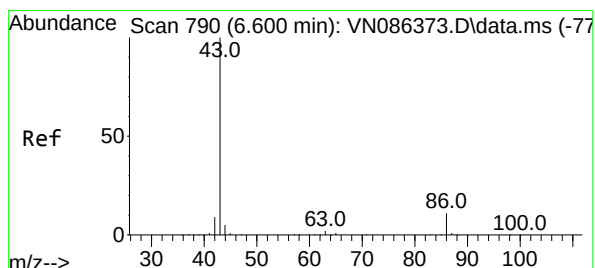
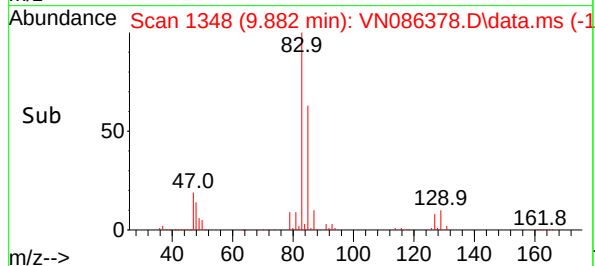
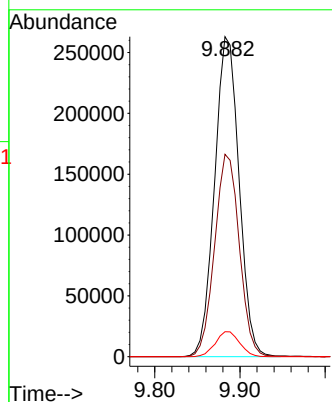
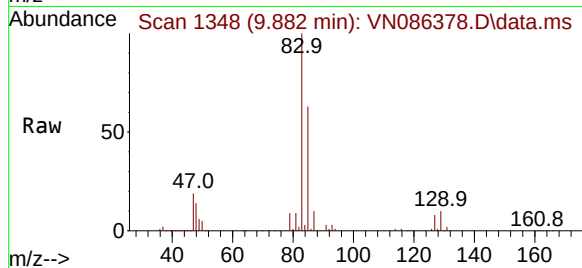
#41
Bromodichloromethane
Concen: 152.734 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 525304
Ion Ratio Lower Upper
83 100
85 63.3 51.1 76.7
127 7.8 5.9 8.9

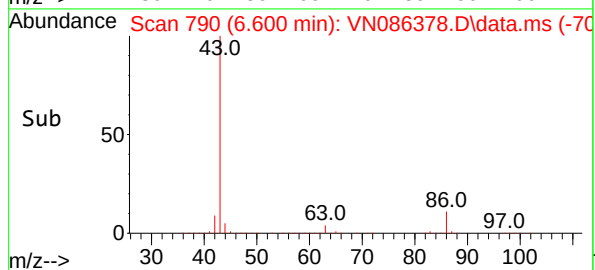
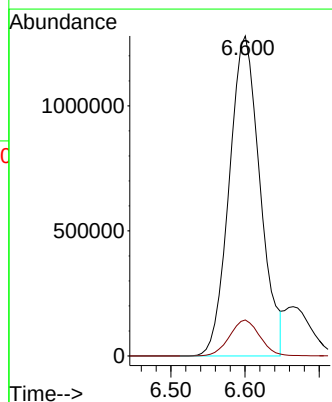
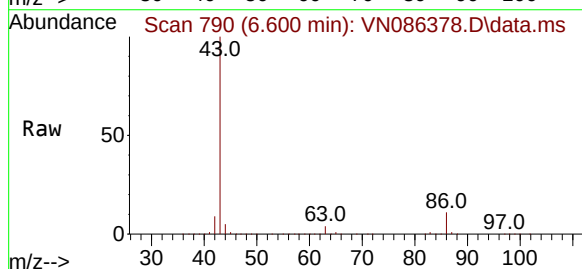
Manual Integrations
APPROVED

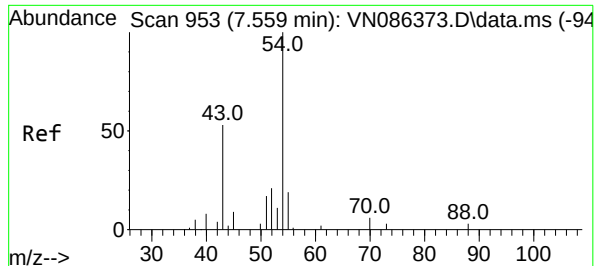
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 710.838 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 43 Resp: 3696622
Ion Ratio Lower Upper
43 100
86 11.1 8.9 13.3





#43

Ethyl Acetate

Concen: 149.188 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 44321

Ion Ratio Lower Upper

43 100

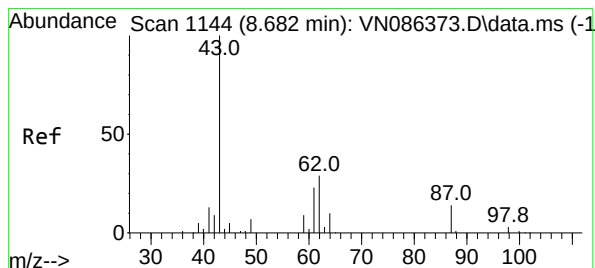
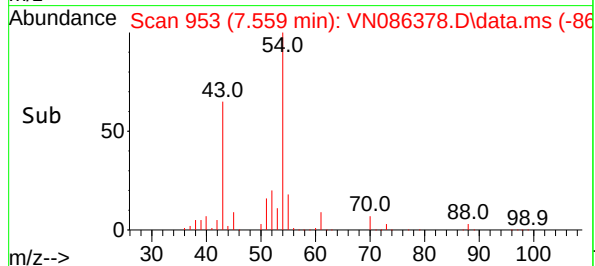
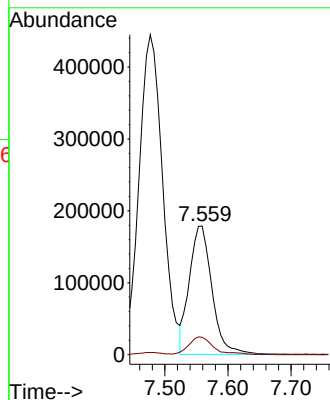
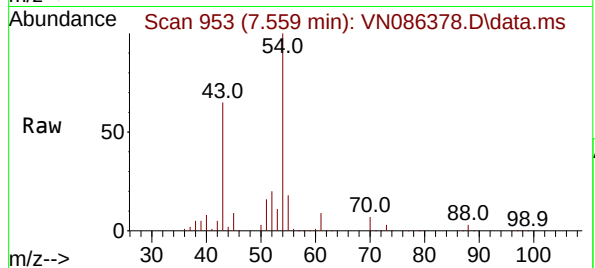
45 14.9 11.4 17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 147.977 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086378.D

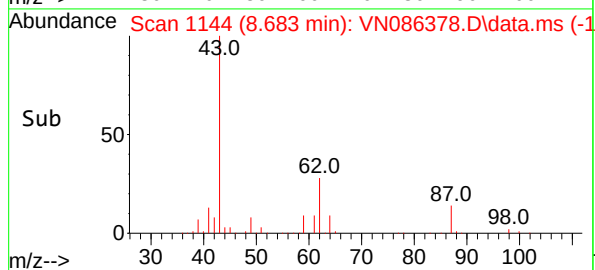
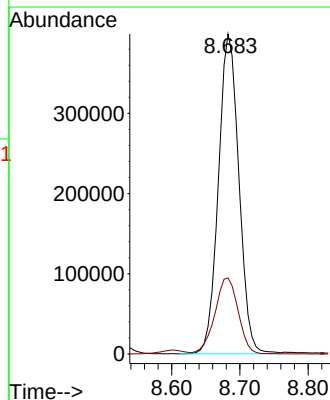
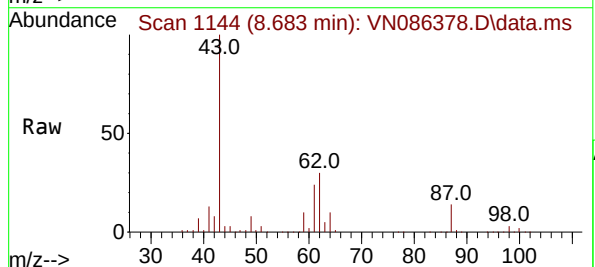
Acq: 23 Apr 2025 11:53

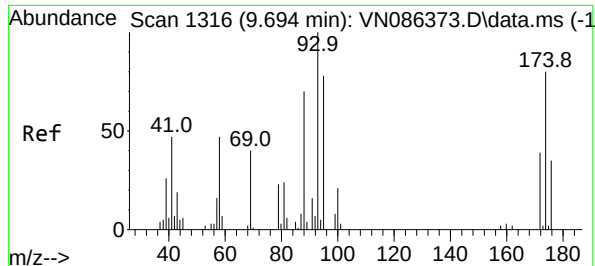
Tgt Ion: 43 Resp: 834366

Ion Ratio Lower Upper

43 100

61 27.1 21.0 31.4





#45

1,4-Dioxane

Concen: 2954.683 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 12998

Ion Ratio Lower Upper

88 100

43 27.3 24.9 37.3

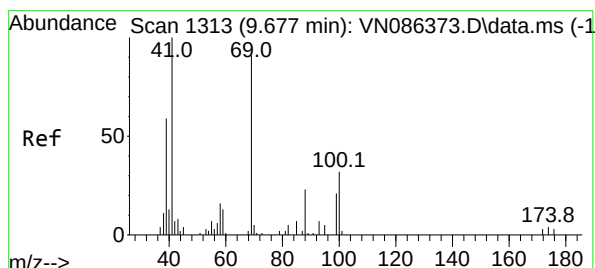
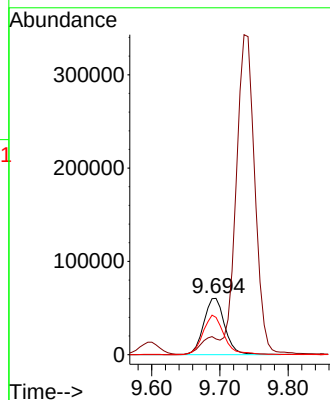
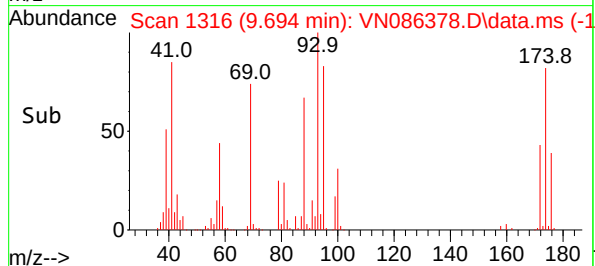
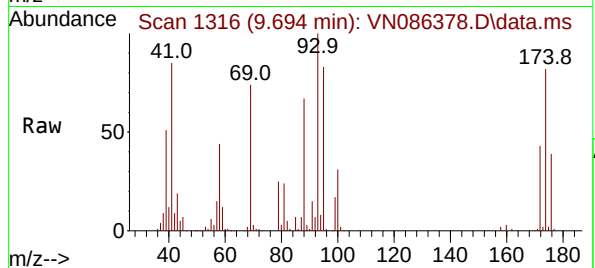
58 70.5 57.8 86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 153.385 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

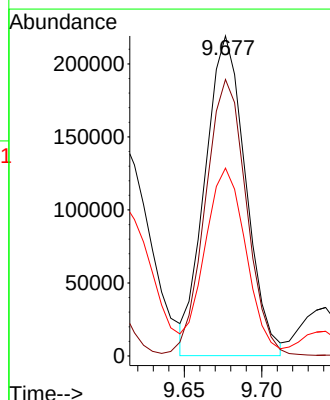
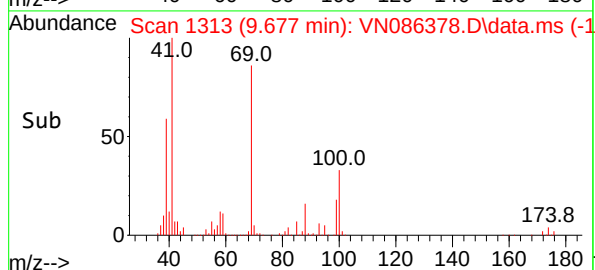
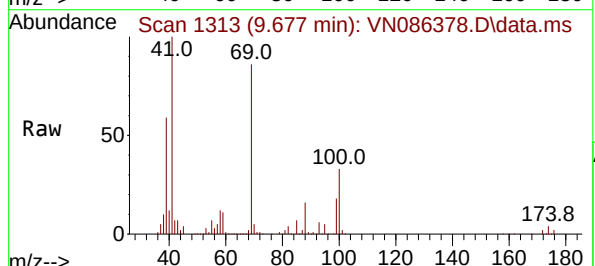
Tgt Ion: 41 Resp: 398936

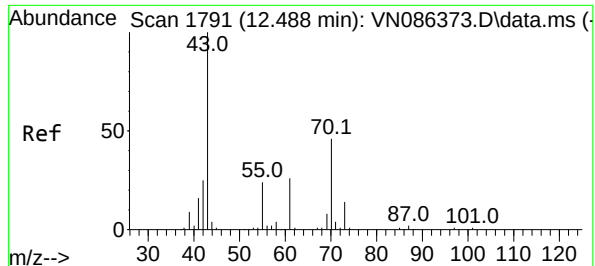
Ion Ratio Lower Upper

41 100

69 88.0 44.1 132.3

39 58.8 30.0 90.1





#47

n-amy1 Acetate

Concen: 165.368 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 794729

Ion Ratio Lower Upper

43 100

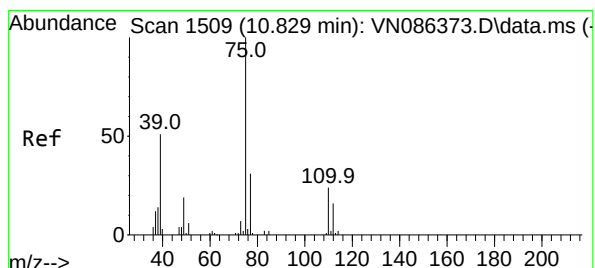
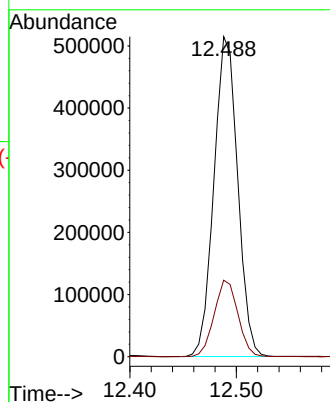
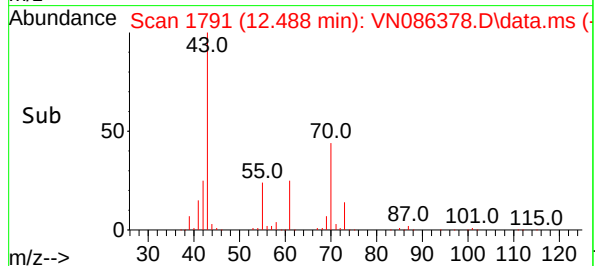
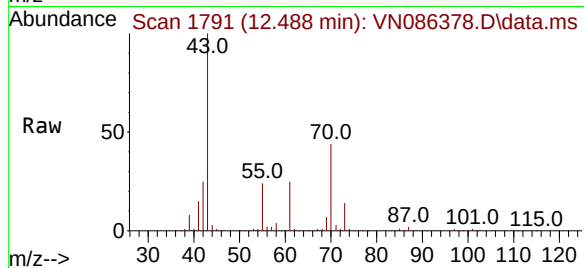
55 24.0 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#48

t-1,3-Dichloropropene

Concen: 157.708 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN086378.D

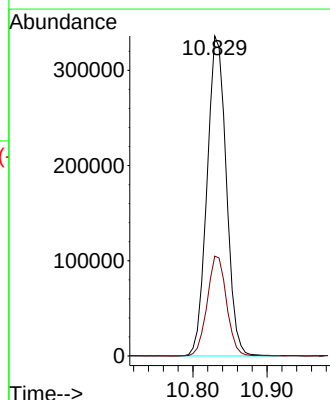
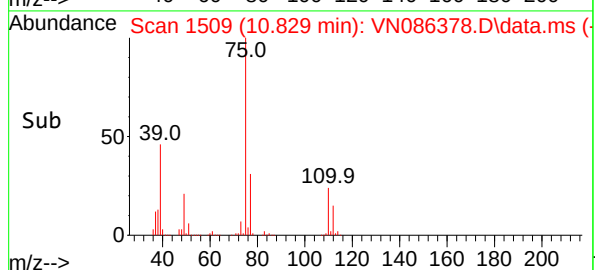
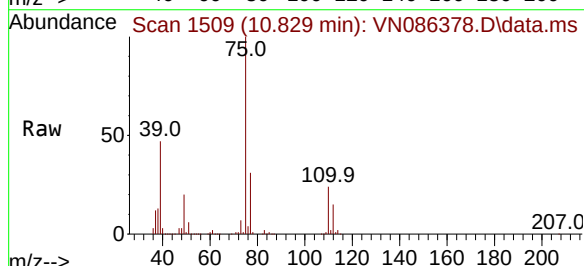
Acq: 23 Apr 2025 11:53

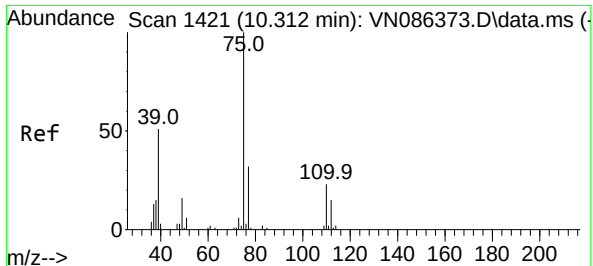
Tgt Ion: 75 Resp: 606406

Ion Ratio Lower Upper

75 100

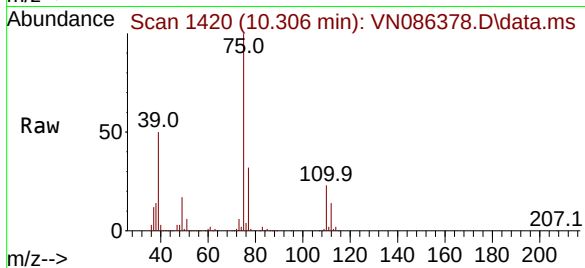
77 31.1 24.4 36.6





#49
cis-1,3-Dichloropropene
Concen: 155.890 ug/l
RT: 10.306 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

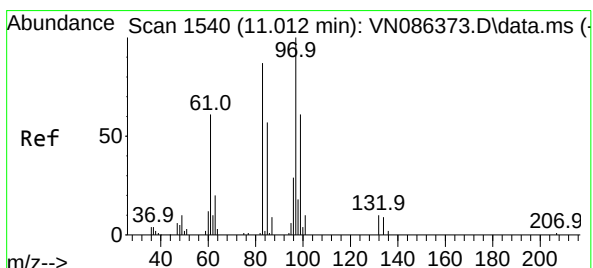
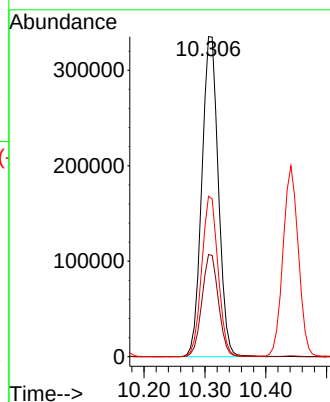
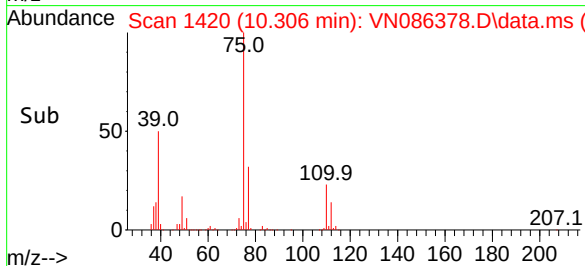
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 75 Resp: 632110
Ion Ratio Lower Upper
75 100
77 31.9 25.6 38.4
39 50.1 40.6 60.8

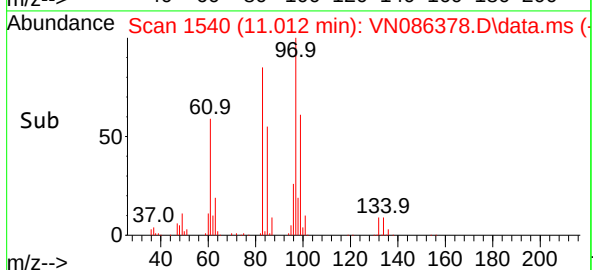
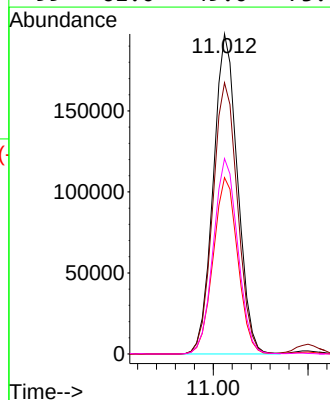
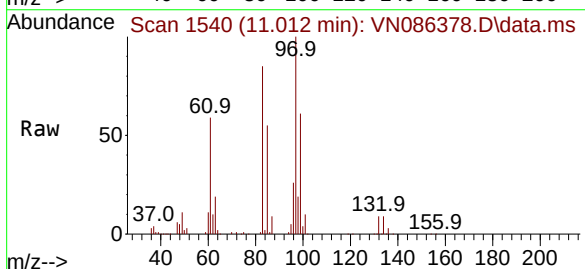
Manual Integrations
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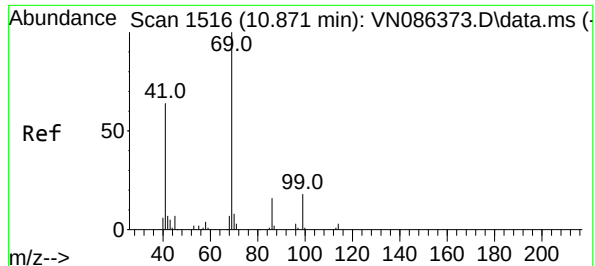
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#50
1,1,2-Trichloroethane
Concen: 154.894 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

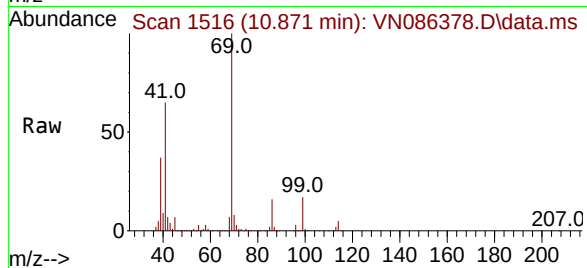
Tgt Ion: 97 Resp: 351630
Ion Ratio Lower Upper
97 100
83 84.7 69.3 103.9
85 55.1 45.5 68.3
99 61.0 49.0 73.6





#51
Ethyl methacrylate
Concen: 158.346 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

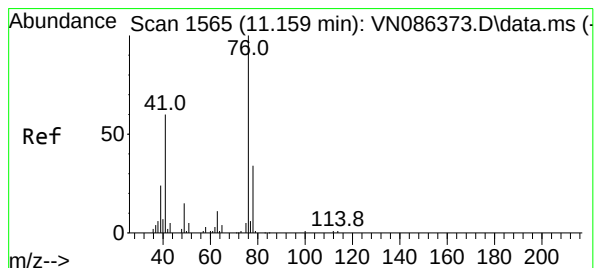
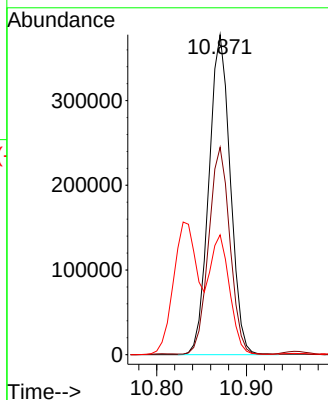
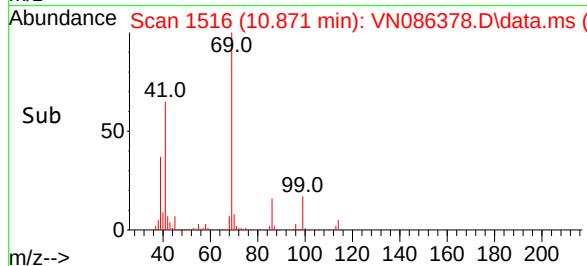
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion: 69 Resp: 626040
Ion Ratio Lower Upper
69 100
41 64.6 32.3 96.8
39 37.3 19.1 57.1

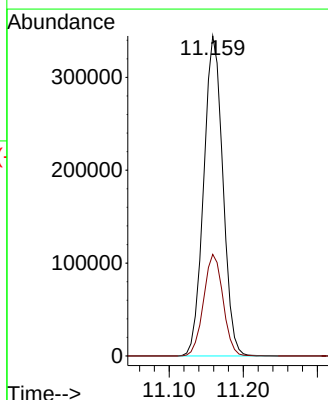
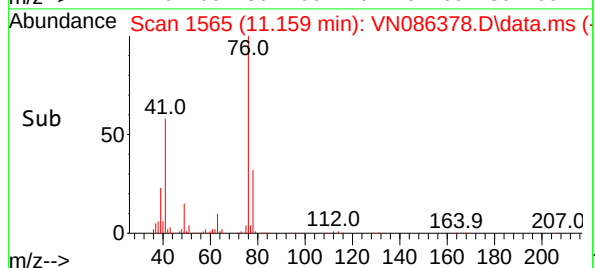
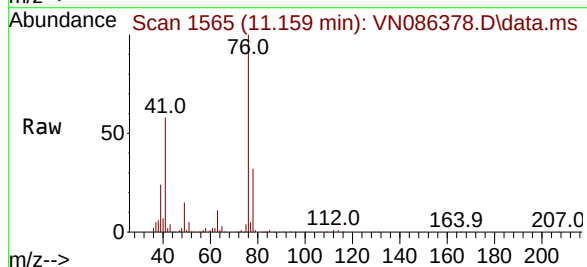
Manual Integrations
APPROVED

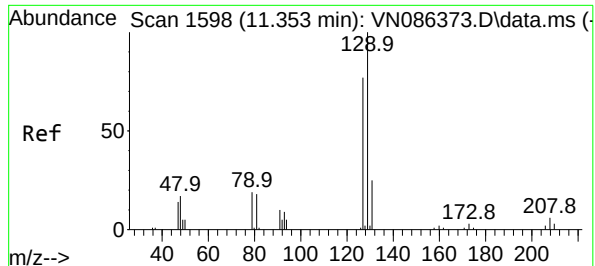
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 154.247 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

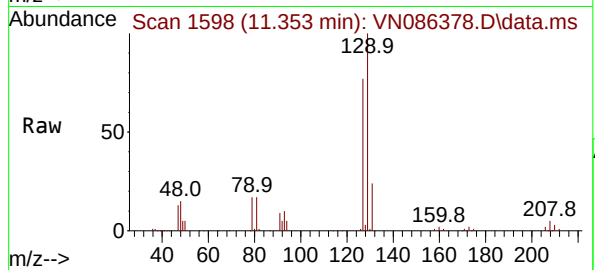
Tgt Ion: 76 Resp: 618867
Ion Ratio Lower Upper
76 100
78 32.2 0.0 65.6





#53
Dibromochloromethane
Concen: 157.150 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

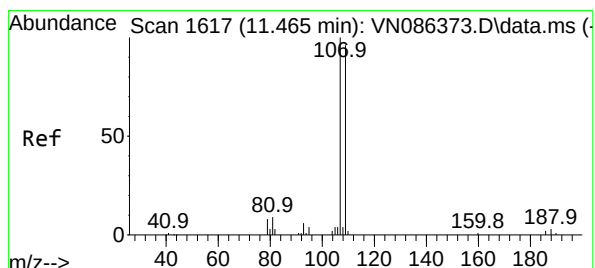
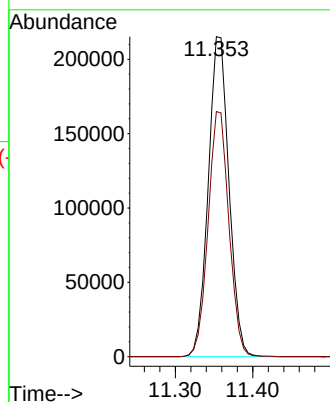
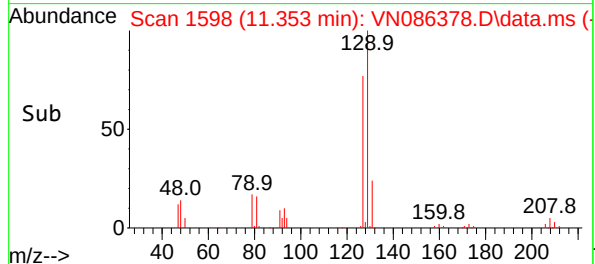
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



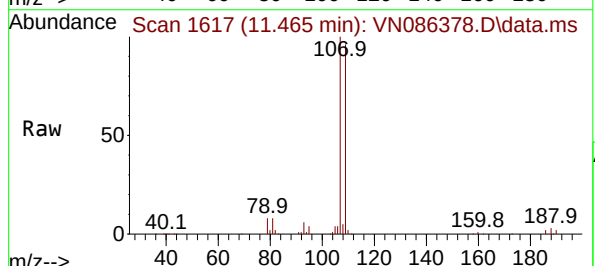
Tgt Ion:129 Resp: 400588
Ion Ratio Lower Upper
129 100
127 76.9 38.8 116.3

Manual Integrations
APPROVED

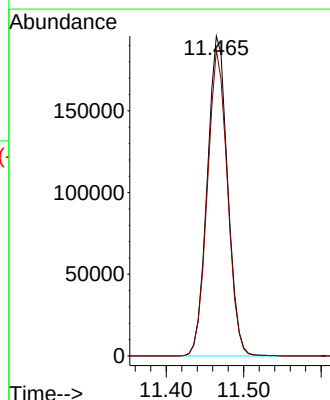
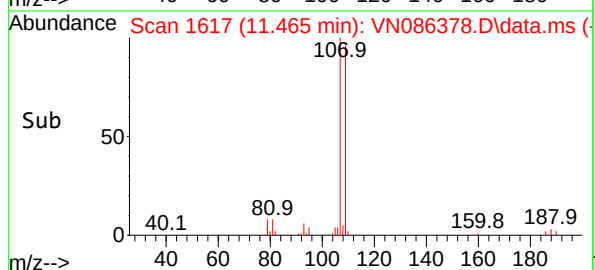
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

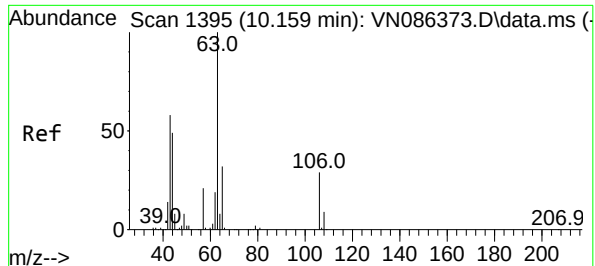


#54
1,2-Dibromoethane
Concen: 154.682 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53



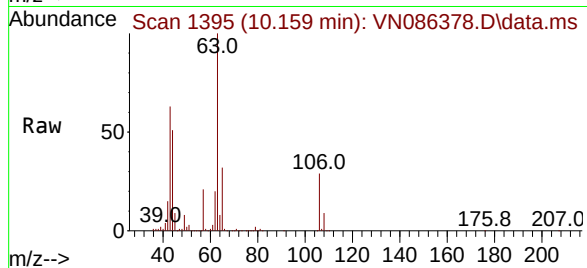
Tgt Ion:107 Resp: 357033
Ion Ratio Lower Upper
107 100
109 94.3 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 811.169 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

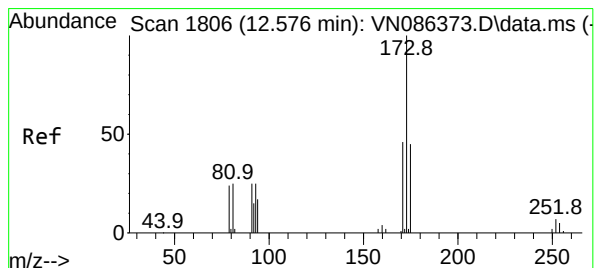
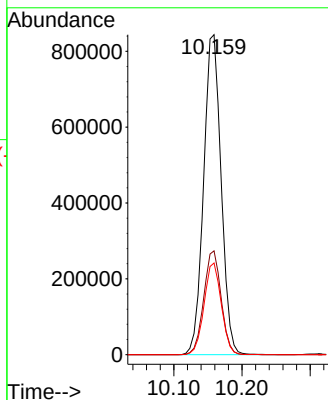
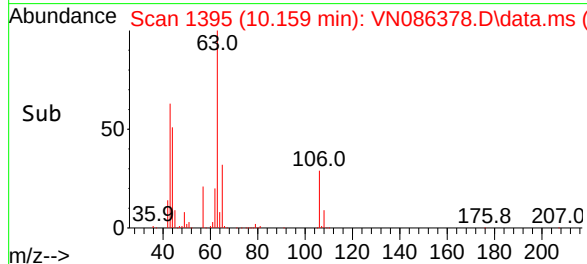
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion: 63 Resp: 1507820
Ion Ratio Lower Upper
63 100
65 32.2 25.7 38.5
106 28.3 22.3 33.5

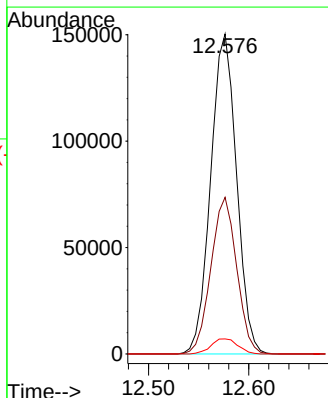
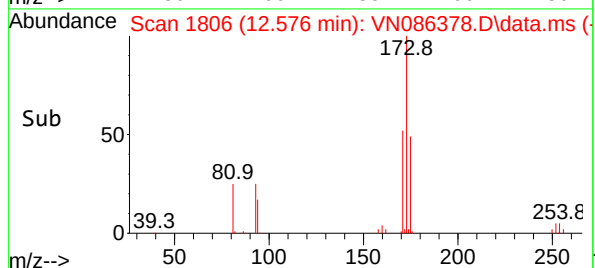
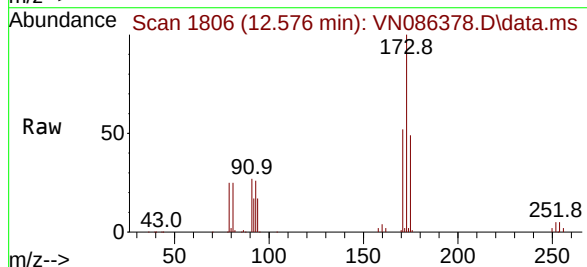
Manual Integrations
APPROVED

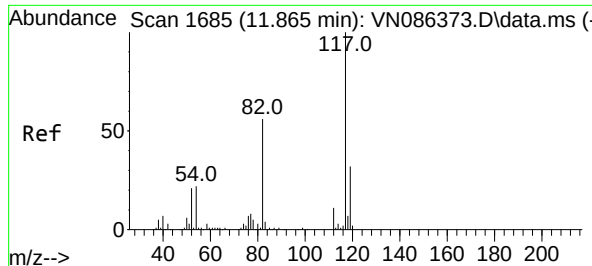
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 163.108 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion:173 Resp: 269808
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.6
254 4.9 3.8 5.6





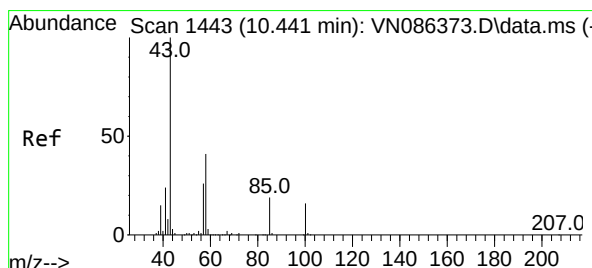
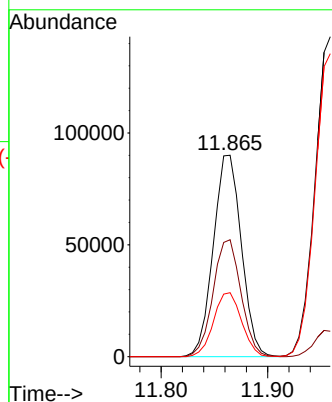
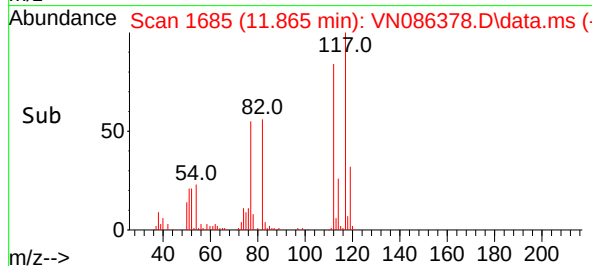
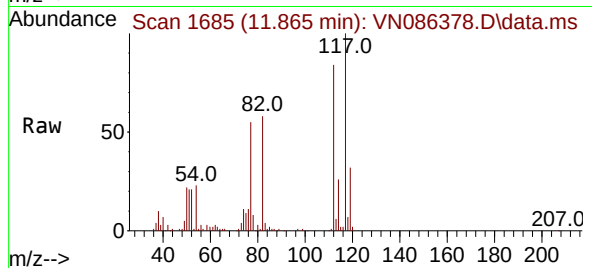
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 16486
Ion Ratio Lower Upper
117 100
82 57.6 45.5 68.3
119 31.8 25.9 38.9

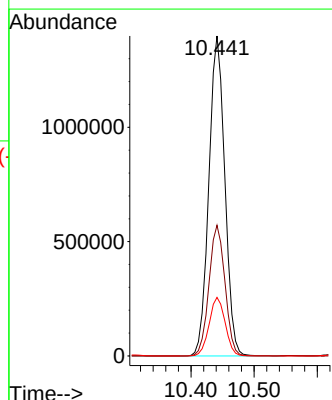
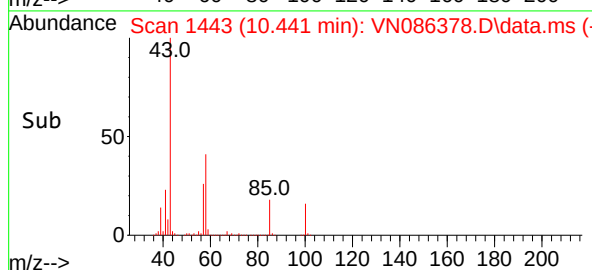
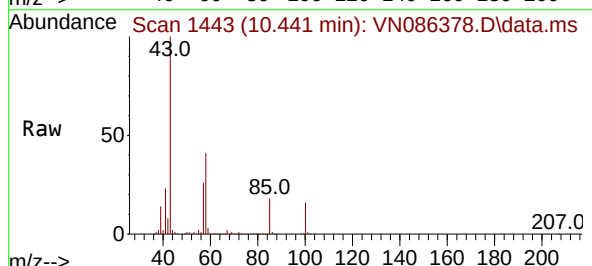
Manual Integrations
APPROVED

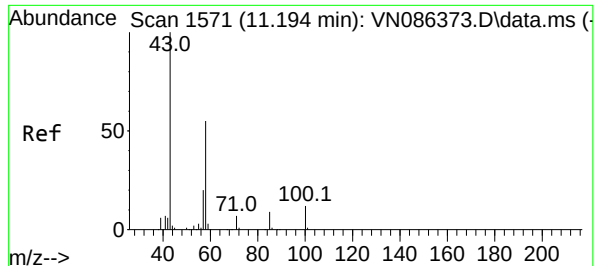
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 770.528 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

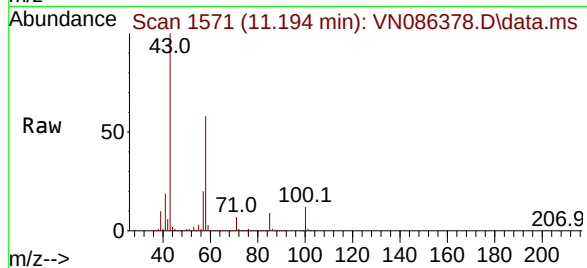
Tgt Ion: 43 Resp: 2458272
Ion Ratio Lower Upper
43 100
58 41.0 33.0 49.6
85 18.4 14.9 22.3





#59
2-Hexanone
Concen: 773.342 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

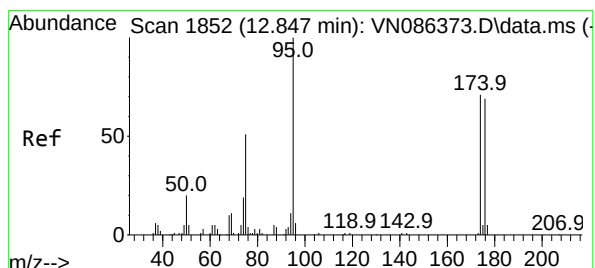
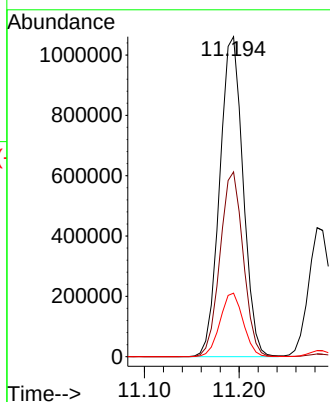
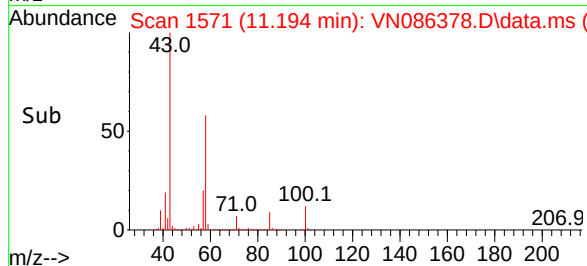
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



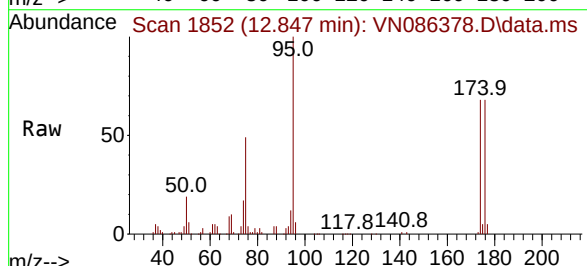
Tgt Ion: 43 Resp: 181818
Ion Ratio Lower Upper
43 100
58 57.3 45.0 67.6
57 19.8 15.5 23.3

Manual Integrations
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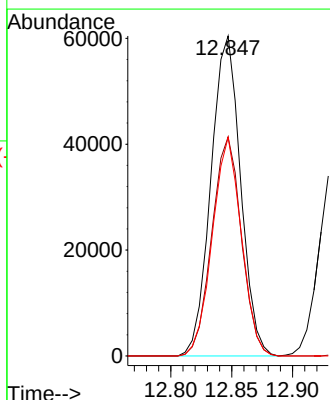
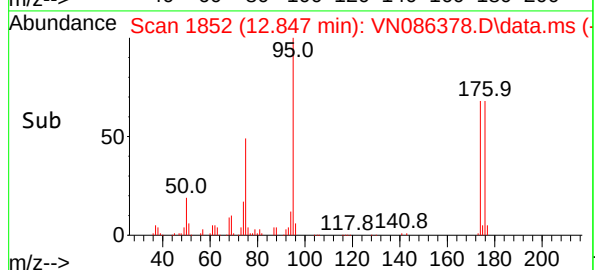
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

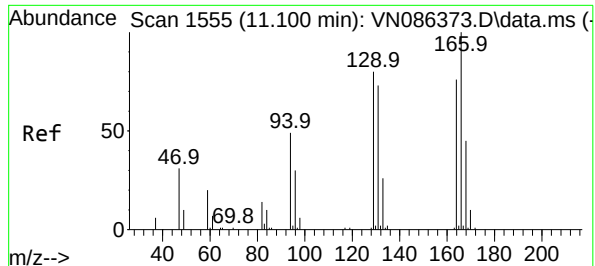


#60
4-Bromofluorobenzene
Concen: 31.582 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53



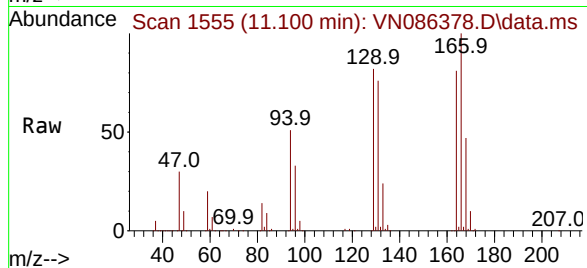
Tgt Ion: 95 Resp: 102335
Ion Ratio Lower Upper
95 100
174 68.2 56.6 84.8
176 66.8 53.3 79.9





#61
Tetrachloroethene
Concen: 154.457 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

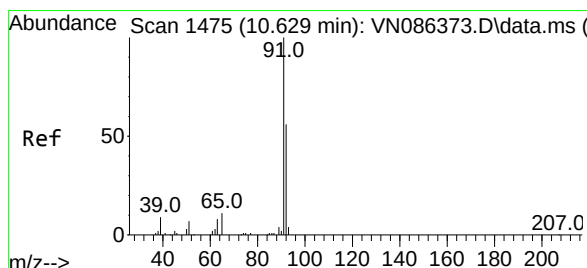
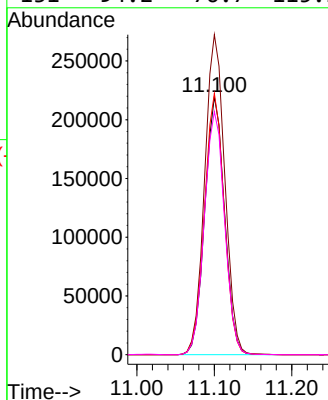
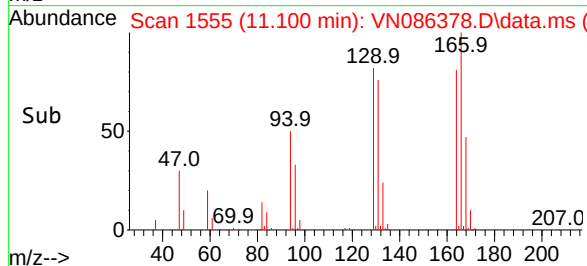
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:164 Resp: 38838
Ion Ratio Lower Upper
164 100
166 124.0 105.0 157.4
129 101.3 83.9 125.9
131 94.2 76.7 115.1

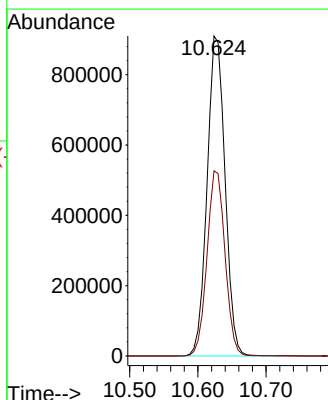
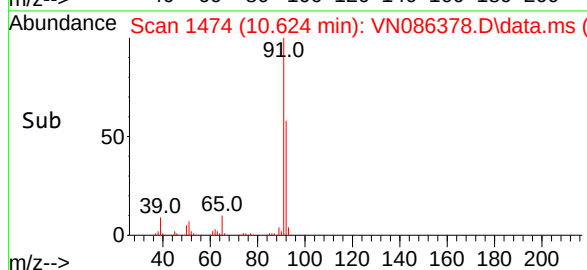
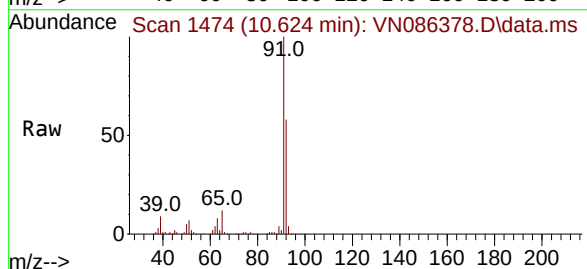
Manual Integrations
APPROVED

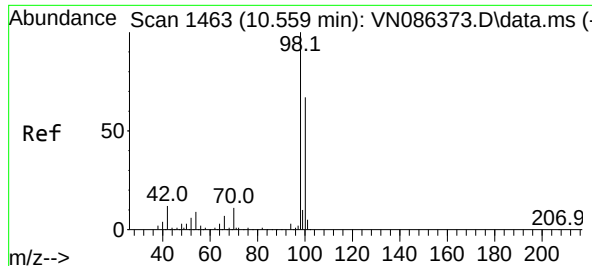
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#62
Toluene
Concen: 151.191 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

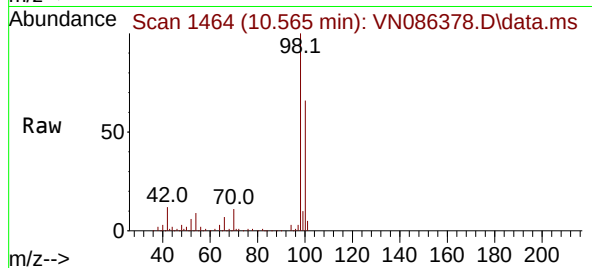
Tgt Ion: 91 Resp: 1668443
Ion Ratio Lower Upper
91 100
92 58.1 45.7 68.5





#63
Toluene-d8
Concen: 29.701 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

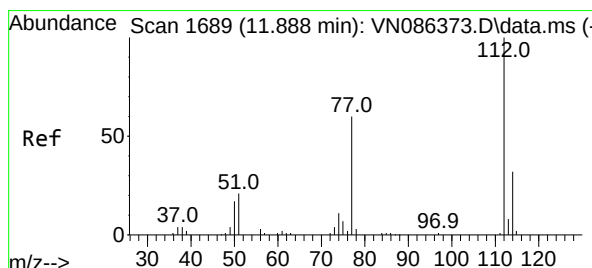
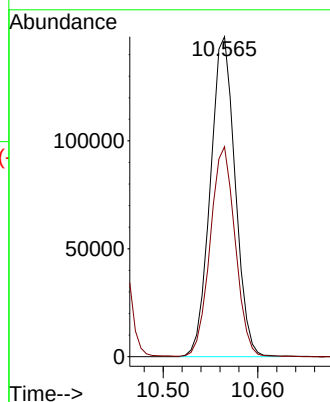
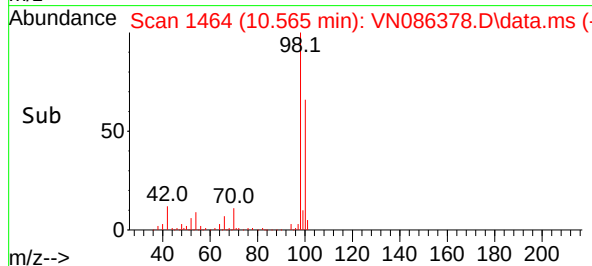
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 98 Resp: 269389
Ion Ratio Lower Upper
98 100
100 65.8 53.1 79.7

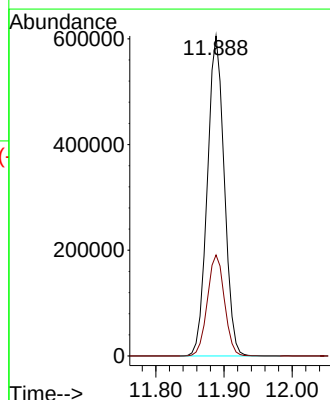
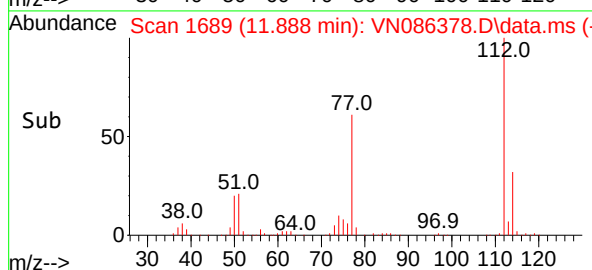
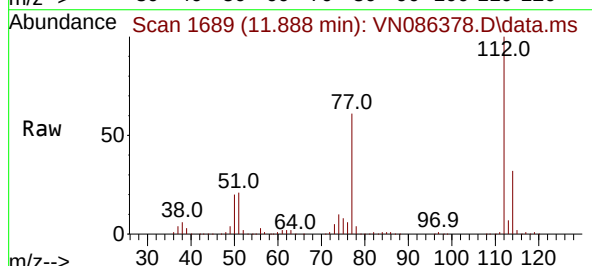
Manual Integrations
APPROVED

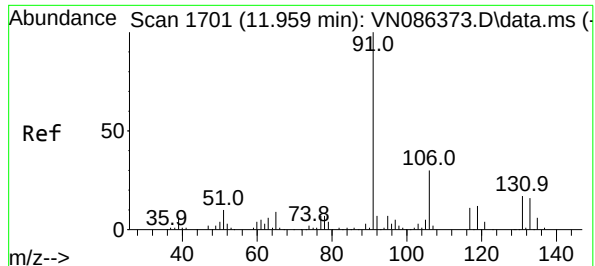
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 152.021 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

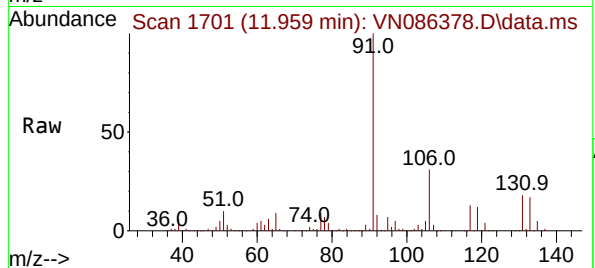
Tgt Ion:112 Resp: 1045317
Ion Ratio Lower Upper
112 100
114 31.6 25.6 38.4





#65
1,1,1,2-Tetrachloroethane
Concen: 154.833 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

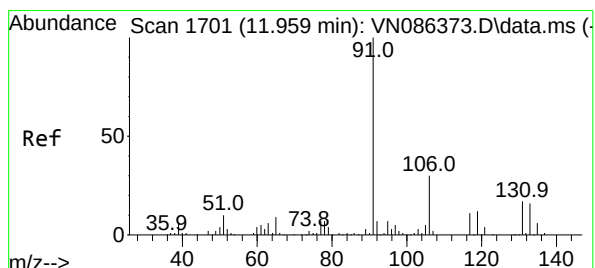
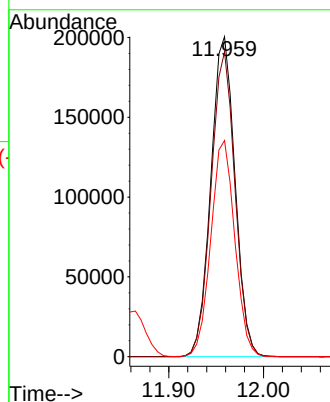
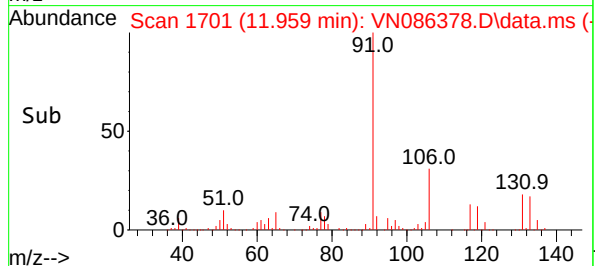
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:131 Resp: 355984
Ion Ratio Lower Upper
131 100
133 94.3 0.0 191.4
119 67.1 0.0 133.6

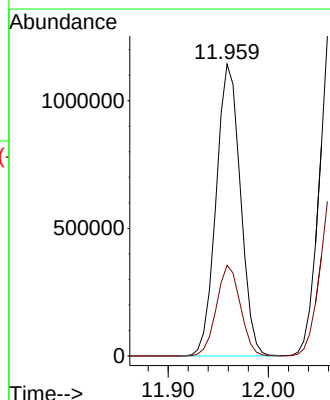
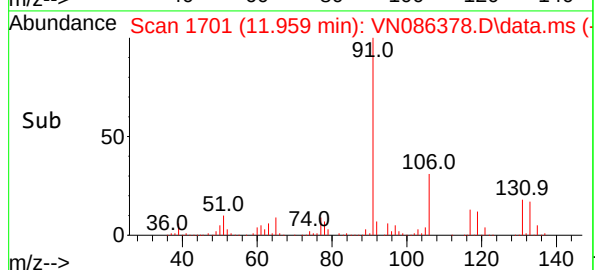
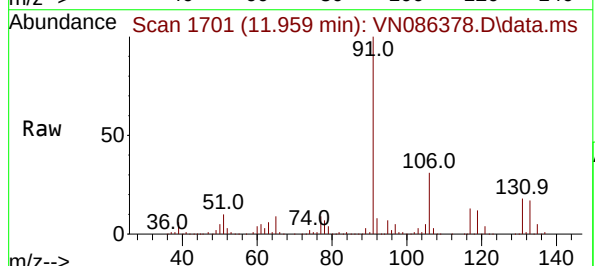
Manual Integrations
APPROVED

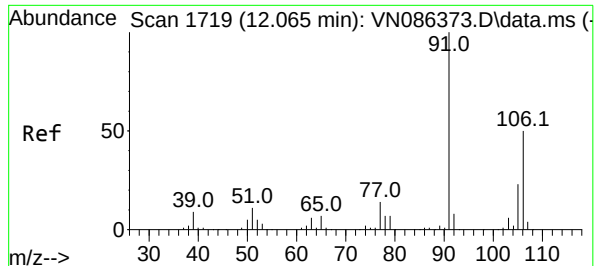
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#66
Ethyl Benzene
Concen: 154.943 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 91 Resp: 1924632
Ion Ratio Lower Upper
91 100
106 31.1 24.3 36.5





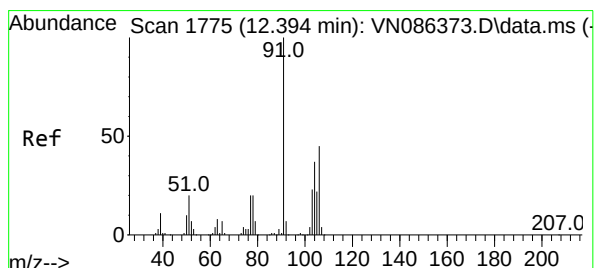
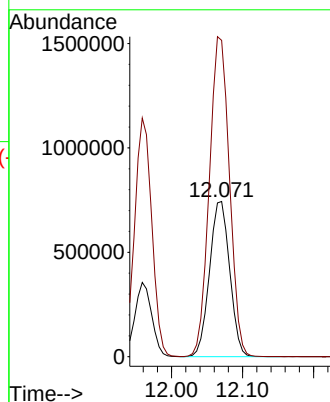
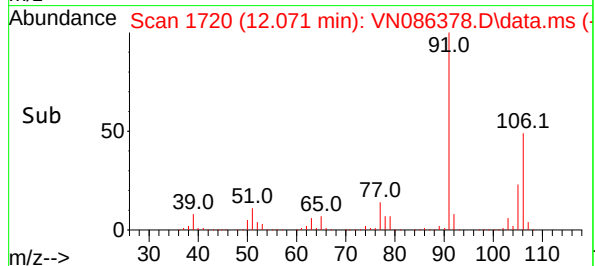
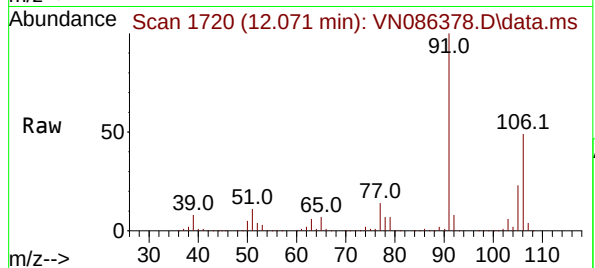
#67
m/p-Xylenes
Concen: 311.039 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 1465950
Ion Ratio Lower Upper
106 100
91 205.7 162.6 243.8

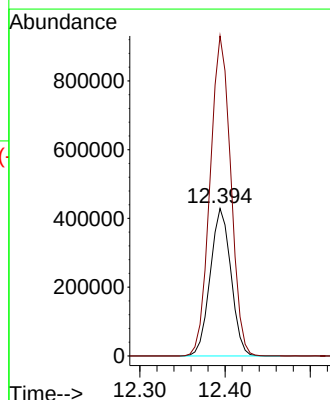
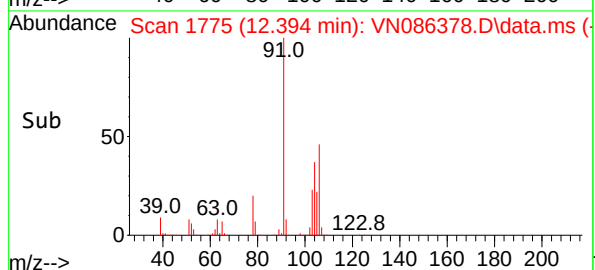
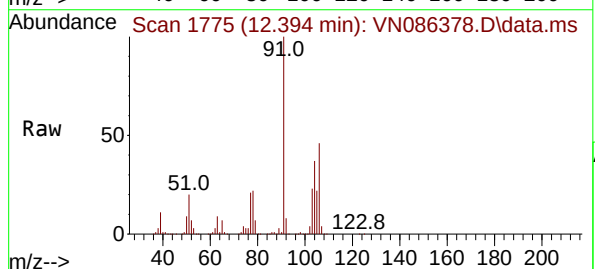
Manual Integrations
APPROVED

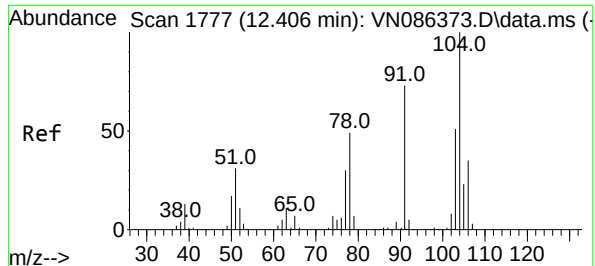
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 156.834 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion:106 Resp: 723738
Ion Ratio Lower Upper
106 100
91 217.1 110.6 331.6





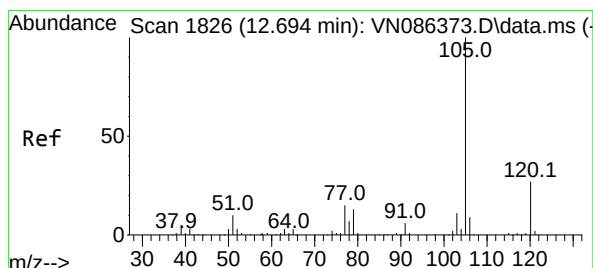
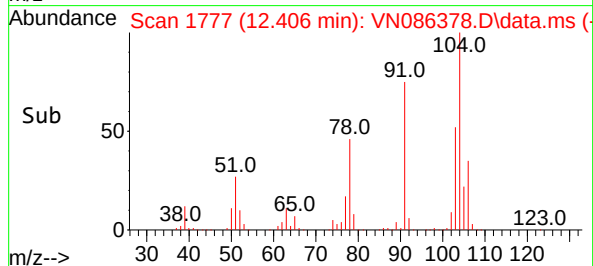
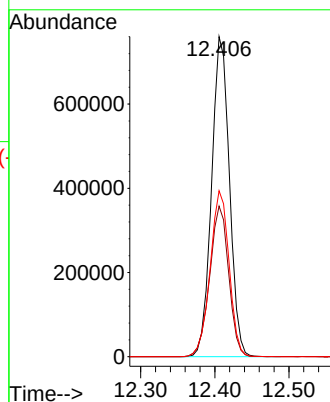
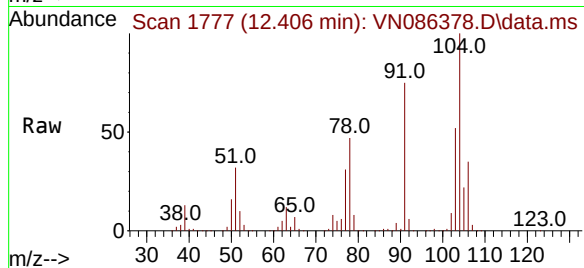
#69
Styrene
Concen: 162.527 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:104 Resp: 1271240
Ion Ratio Lower Upper
104 100
78 50.0 40.2 60.4
103 54.9 43.8 65.8

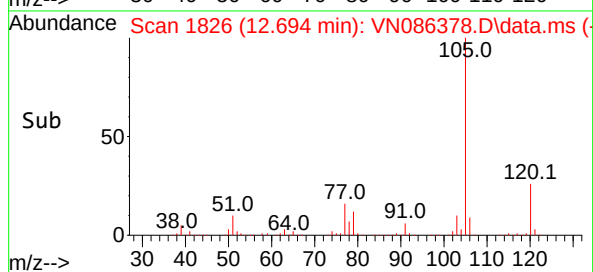
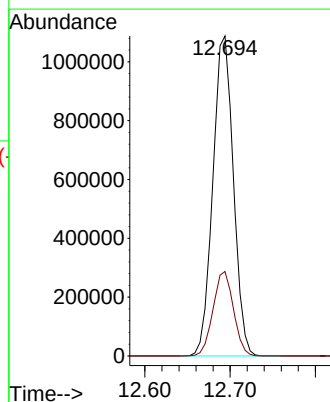
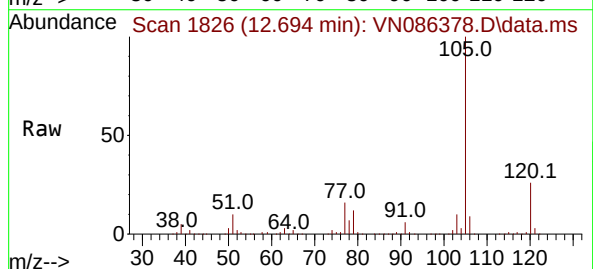
Manual Integrations
APPROVED

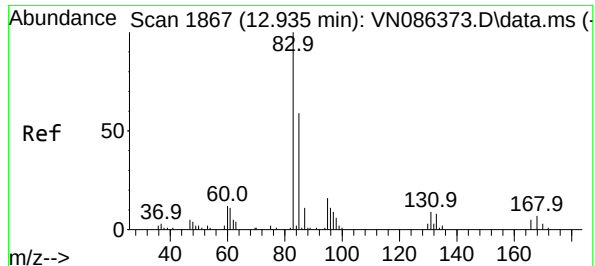
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#70
Isopropylbenzene
Concen: 158.002 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion:105 Resp: 1820093
Ion Ratio Lower Upper
105 100
120 26.3 18.2 33.8





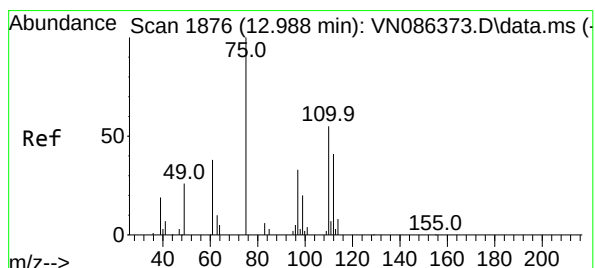
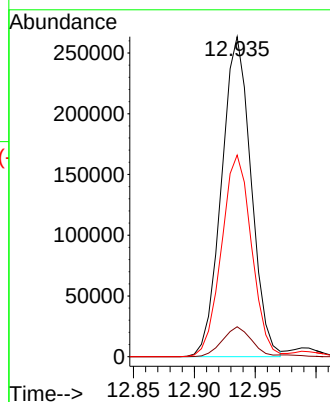
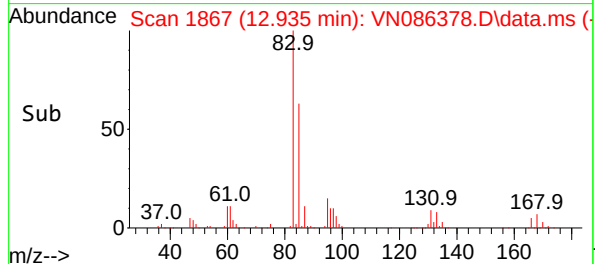
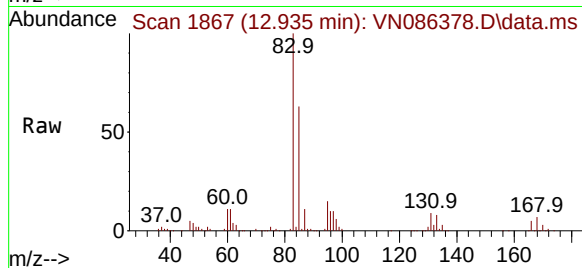
#71
1,1,2,2-Tetrachloroethane
Concen: 146.927 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 44565
Ion Ratio Lower Upper
83 100
131 9.2 4.5 13.7
85 63.9 31.7 95.1

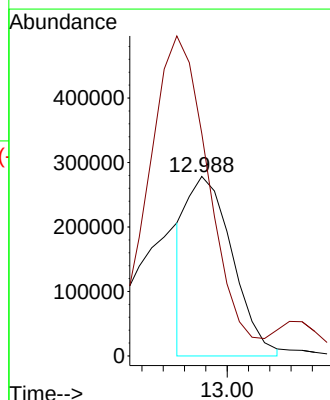
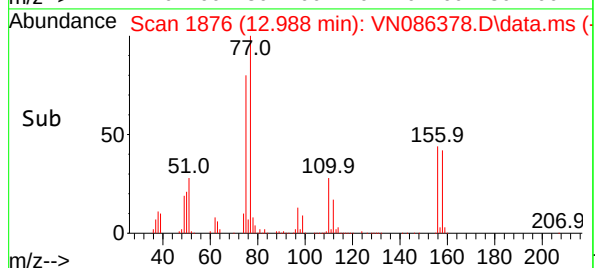
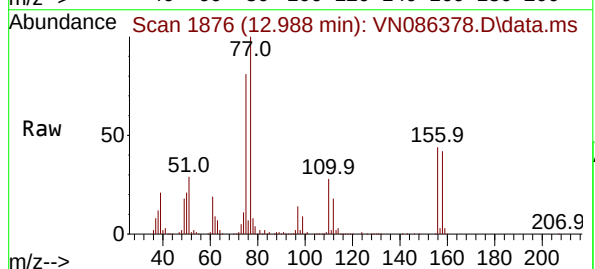
Manual Integrations
APPROVED

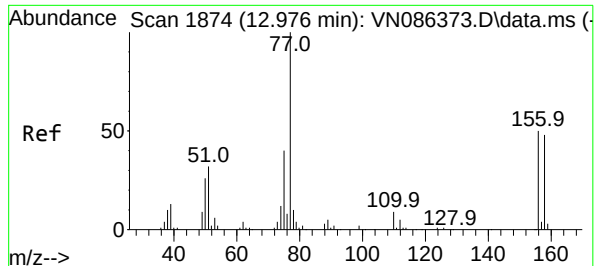
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 157.445 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

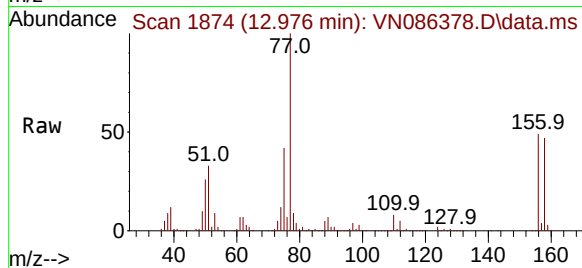
Tgt Ion: 75 Resp: 413811
Ion Ratio Lower Upper
75 100
77 239.1 0.0 464.4





#73
Bromobenzene
Concen: 158.301 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

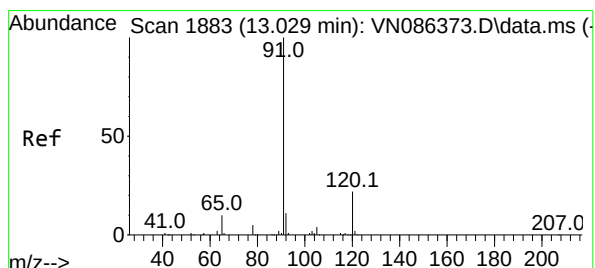
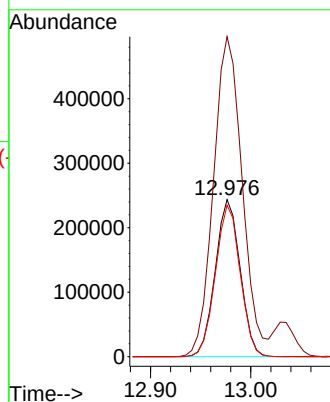
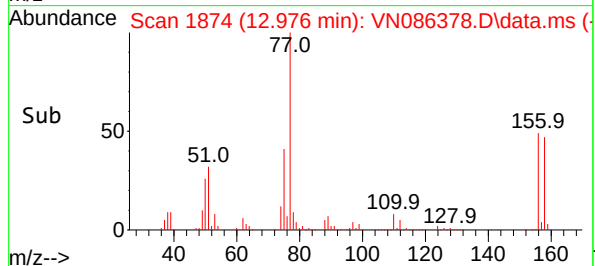
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150



Tgt Ion:156 Resp: 419234
Ion Ratio Lower Upper
156 100
77 236.0 0.0 463.4
158 95.9 0.0 191.8

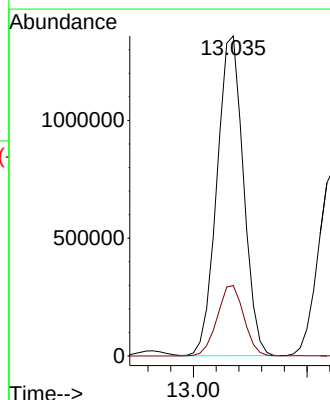
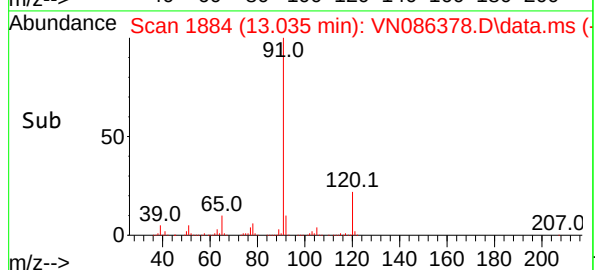
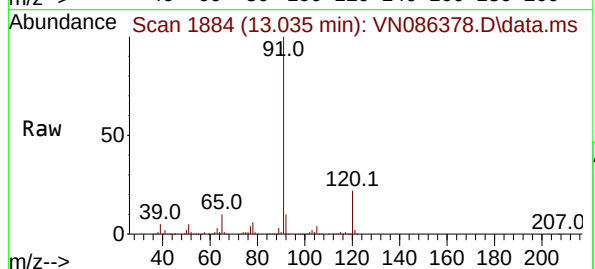
Manual Integrations
APPROVED

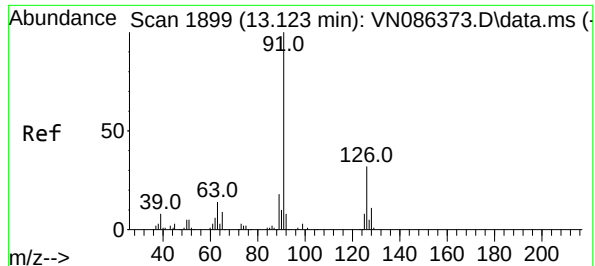
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 160.846 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 91 Resp: 2201757
Ion Ratio Lower Upper
91 100
120 22.1 0.0 43.8





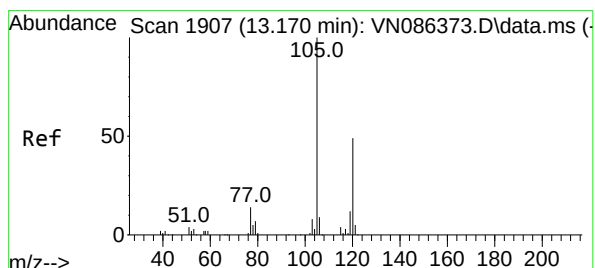
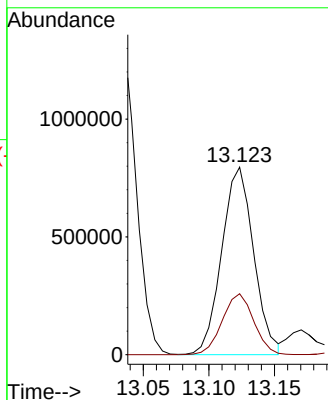
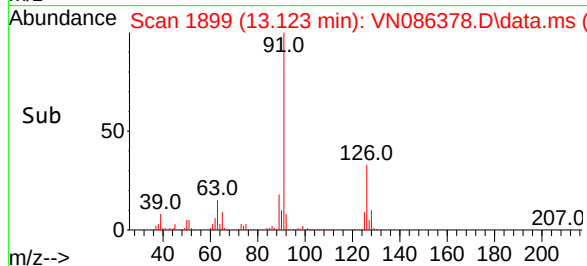
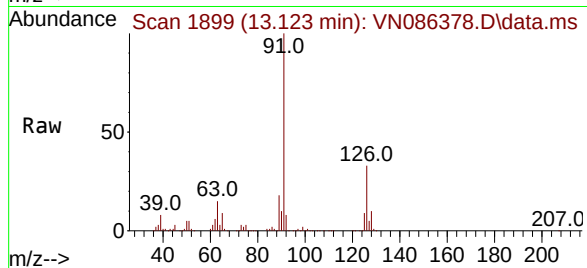
#75
2-Chlorotoluene
Concen: 158.123 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1351179
Ion Ratio Lower Upper
91 100
126 32.1 0.0 65.0

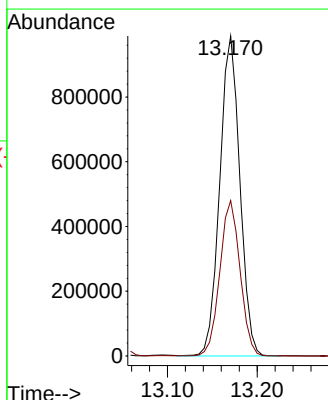
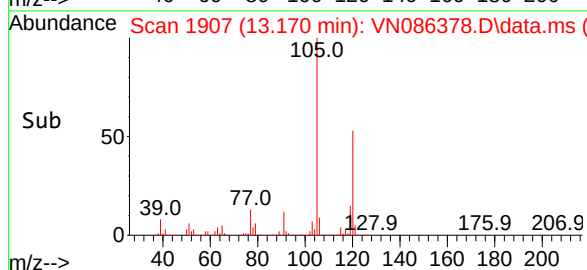
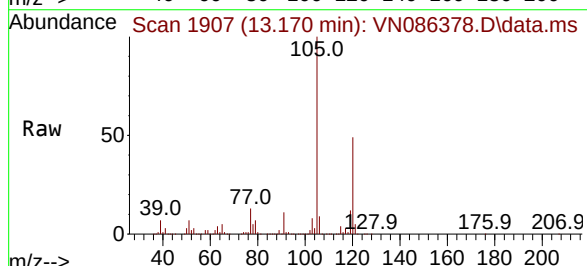
Manual Integrations
APPROVED

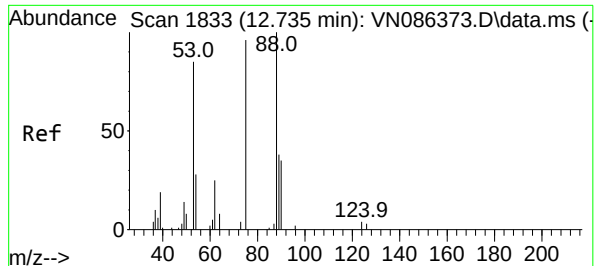
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 162.869 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion:105 Resp: 1539420
Ion Ratio Lower Upper
105 100
120 48.8 0.0 97.6





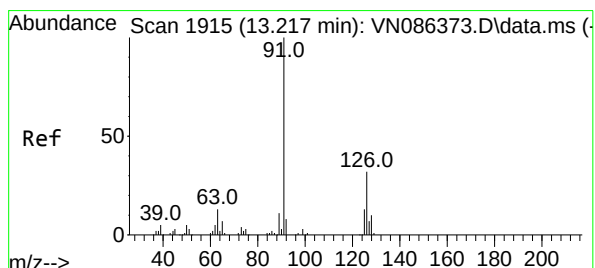
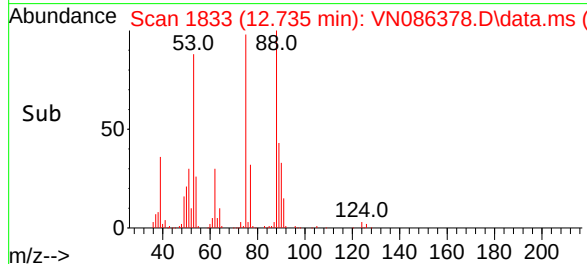
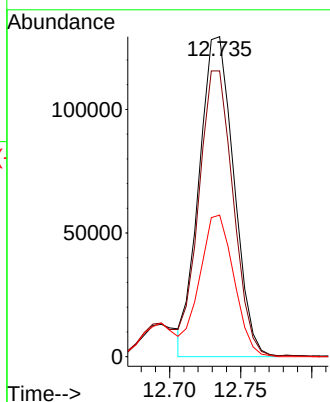
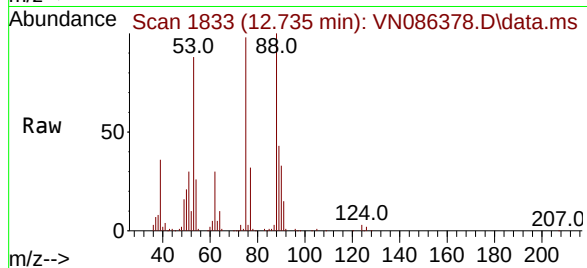
#77
t-1,4-Dichloro-2-butene
Concen: 164.423 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 220662
Ion Ratio Lower Upper
75 100
53 89.3 46.0 138.0
89 44.4 21.6 64.6

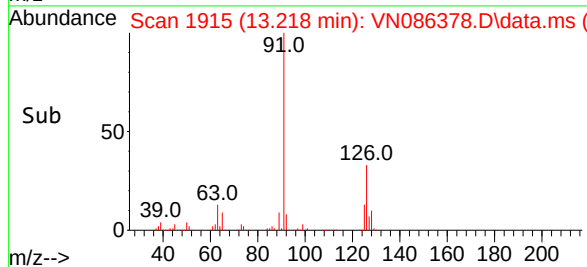
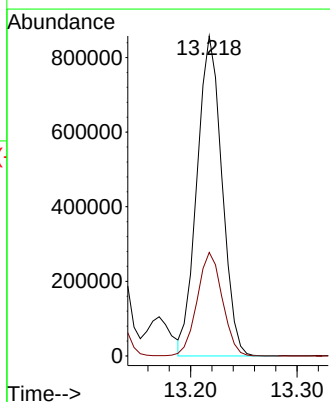
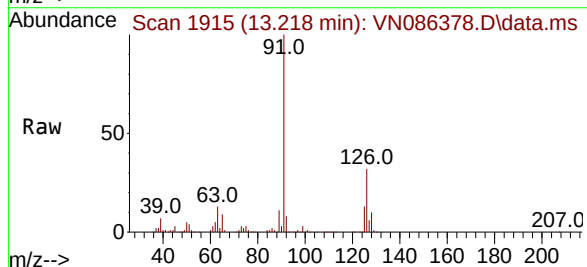
Manual Integrations
APPROVED

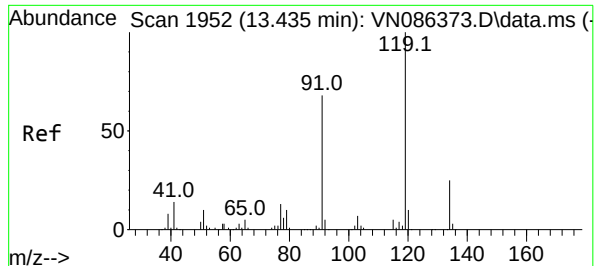
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#78
4-Chlorotoluene
Concen: 163.684 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion: 91 Resp: 1398536
Ion Ratio Lower Upper
91 100
126 32.6 0.0 65.4





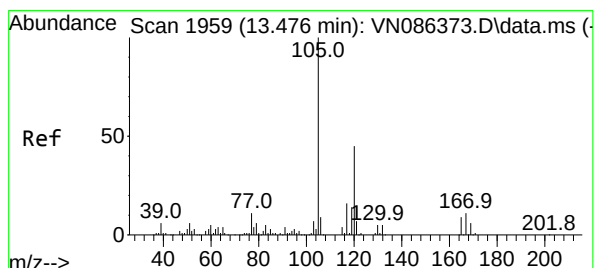
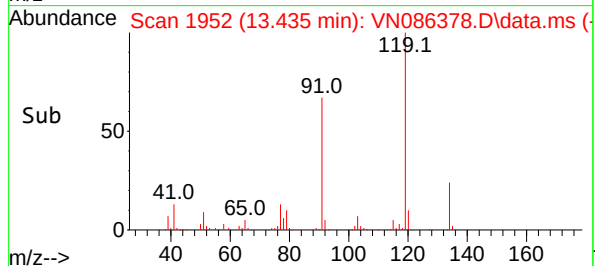
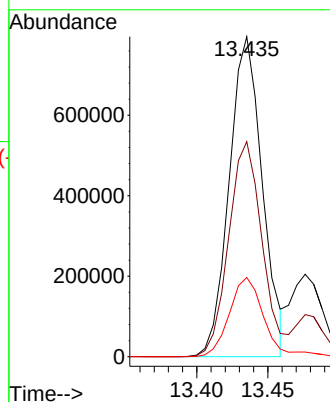
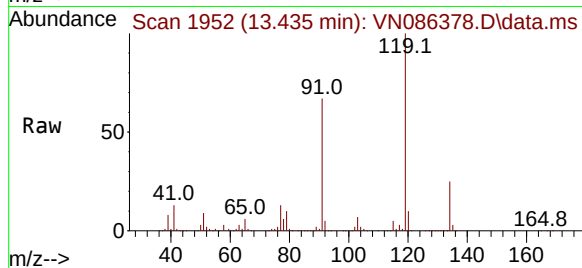
#79
tert-butylbenzene
Concen: 159.319 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 128967
Ion Ratio Lower Upper
119 100
91 68.4 0.0 137.4
134 24.8 0.0 49.2

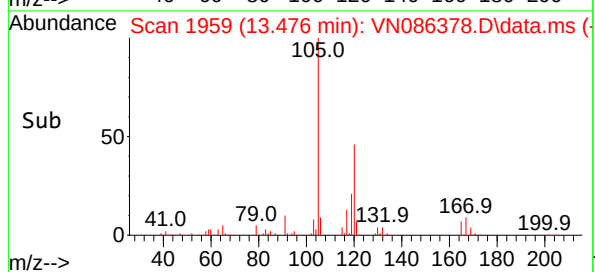
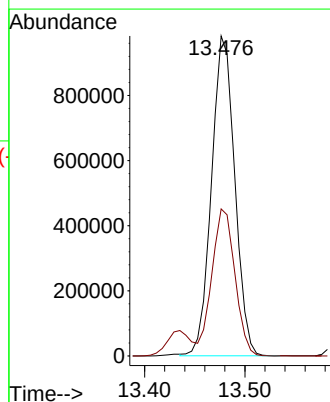
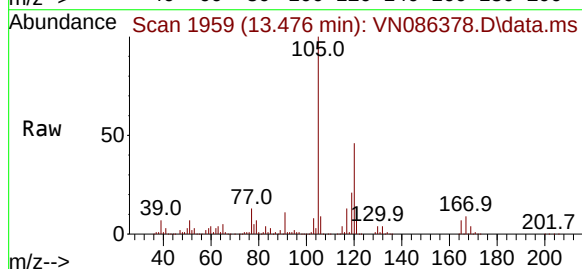
Manual Integrations
APPROVED

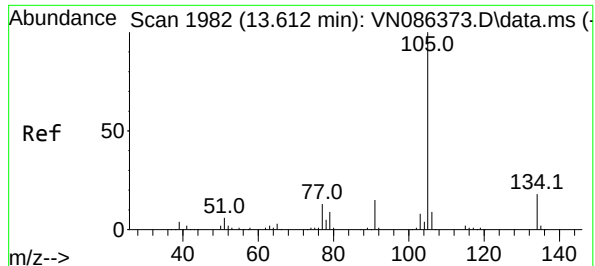
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#80
1,2,4-Trimethylbenzene
Concen: 163.487 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

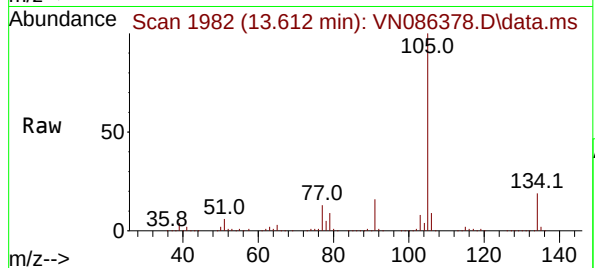
Tgt Ion:105 Resp: 1578141
Ion Ratio Lower Upper
105 100
120 45.4 0.0 87.6





#81
sec-Butylbenzene
Concen: 161.777 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

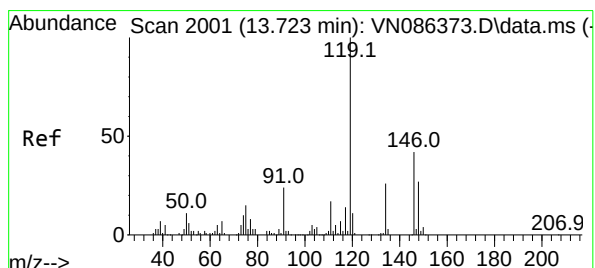
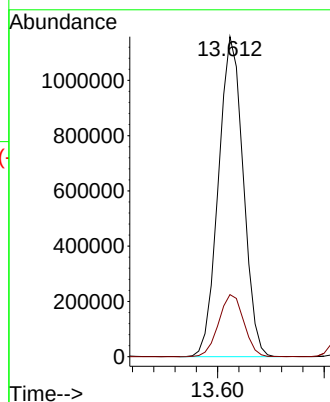
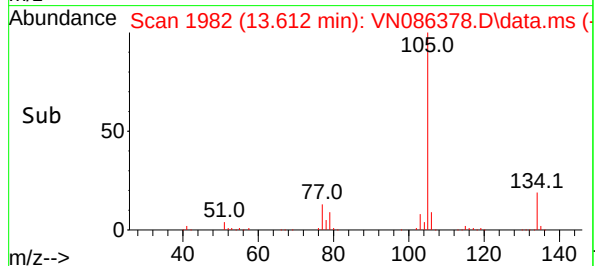
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



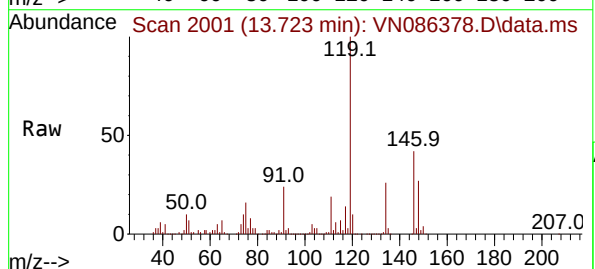
Tgt Ion:105 Resp: 186934
Ion Ratio Lower Upper
105 100
134 19.7 0.0 38.4

Manual Integrations
APPROVED

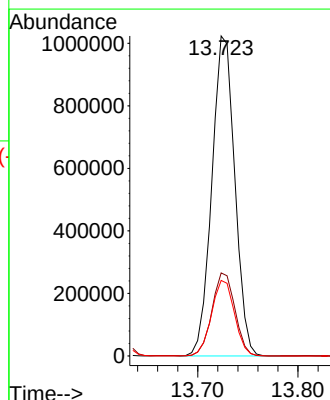
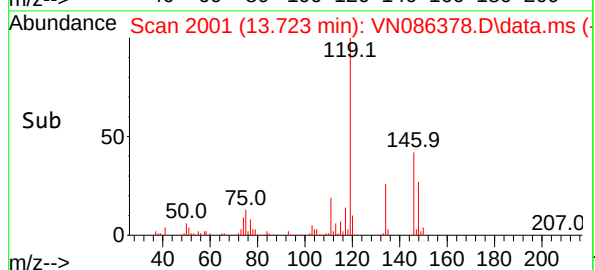
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

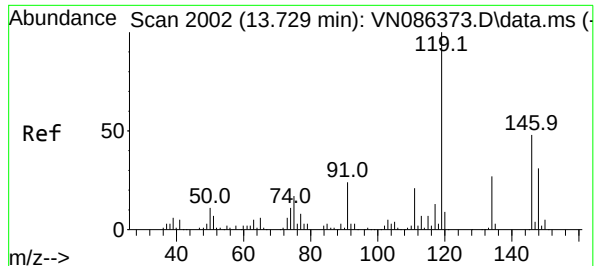


#82
p-Isopropyltoluene
Concen: 168.473 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53



Tgt Ion:119 Resp: 1628968
Ion Ratio Lower Upper
119 100
134 25.9 0.0 52.2
91 23.7 0.0 47.6





#83

1,3-Dichlorobenzene

Concen: 166.415 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 833110

Ion Ratio Lower Upper

146 100

111 43.2 20.7 62.1

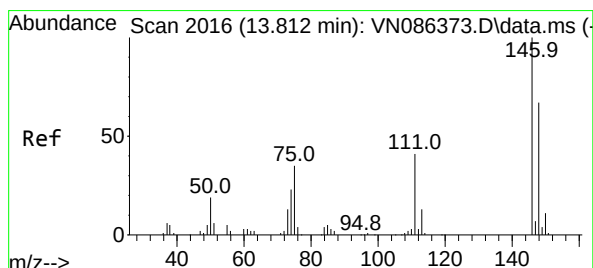
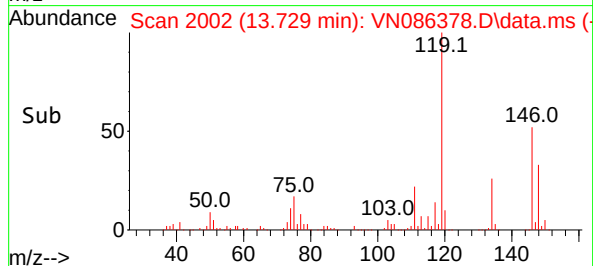
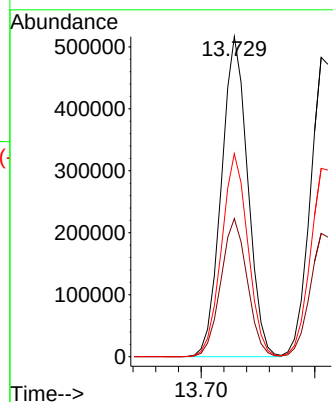
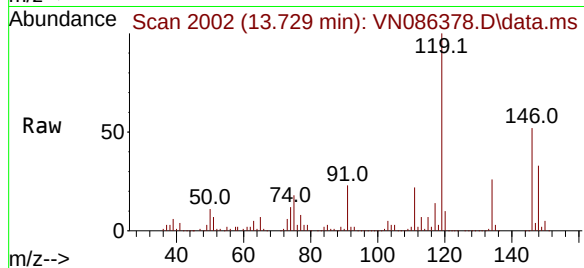
148 63.4 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#84

1,4-Dichlorobenzene

Concen: 165.219 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

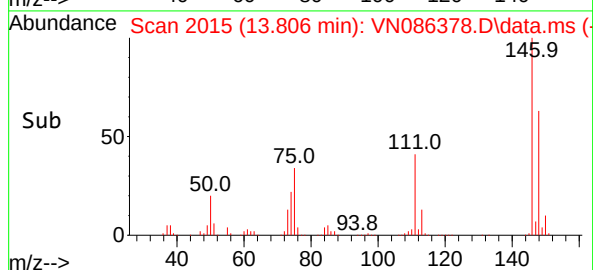
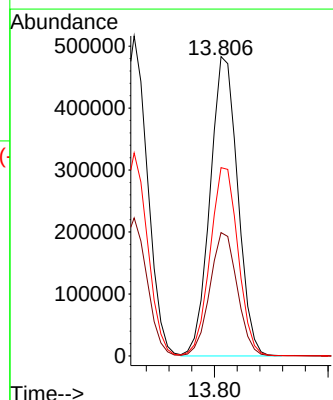
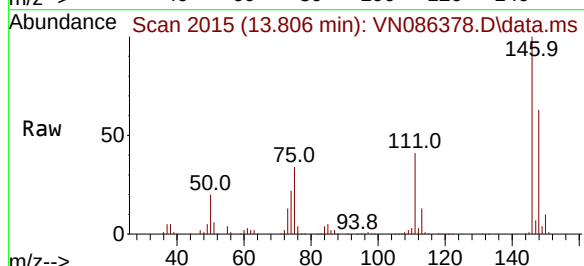
Tgt Ion:146 Resp: 817212

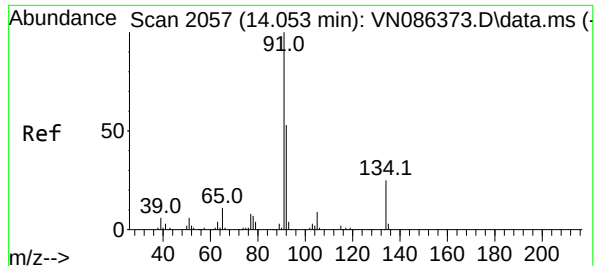
Ion Ratio Lower Upper

146 100

111 40.7 20.3 60.8

148 63.6 32.4 97.2





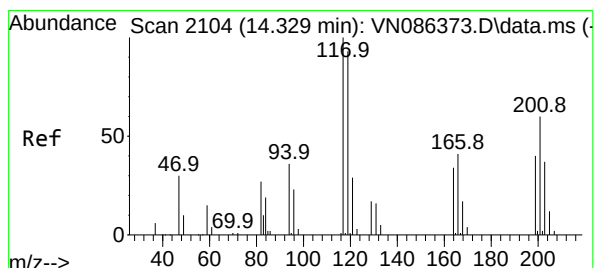
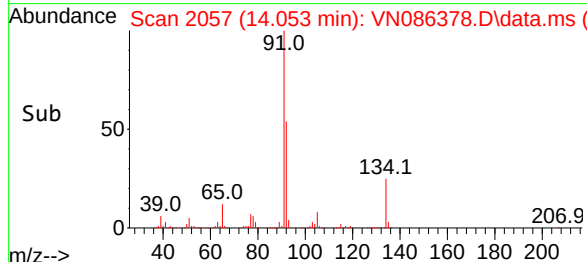
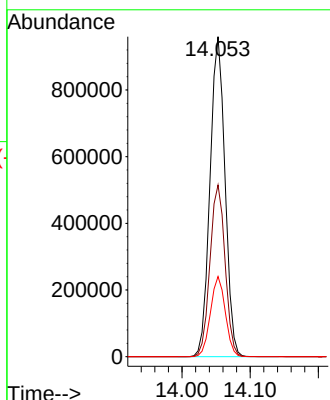
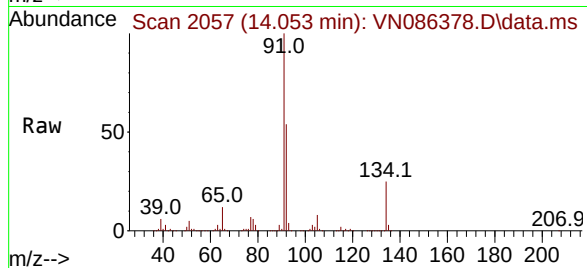
#85
n-Butylbenzene
Concen: 170.449 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 147056
Ion Ratio Lower Upper
91 100
92 53.9 0.0 107.2
134 24.8 0.0 48.2

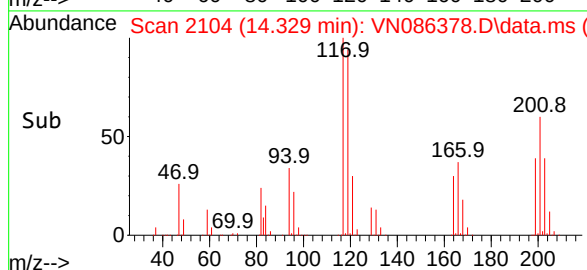
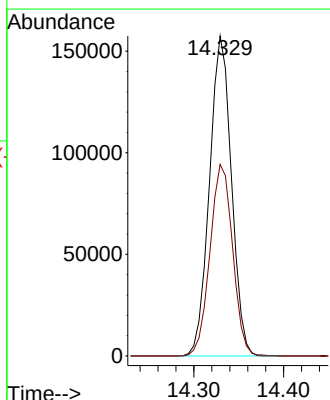
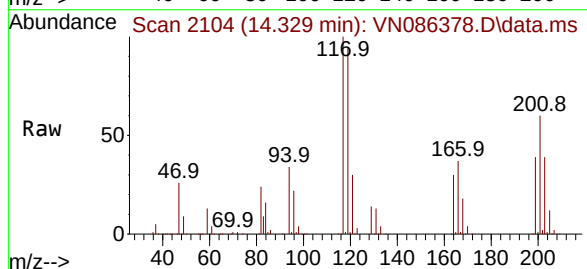
Manual Integrations
APPROVED

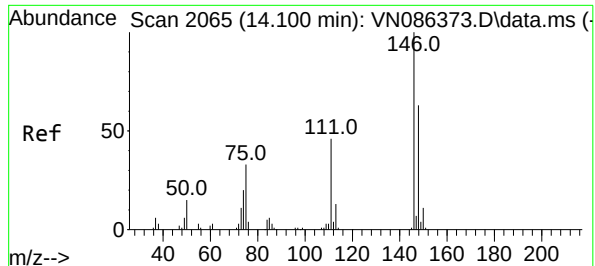
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#86
Hexachloroethane
Concen: 169.237 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion:117 Resp: 267570
Ion Ratio Lower Upper
117 100
201 61.6 31.7 95.1





#87

1,2-Dichlorobenzene

Concen: 162.374 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 773464

Ion Ratio Lower Upper

146 100

111 44.2 22.1 66.3

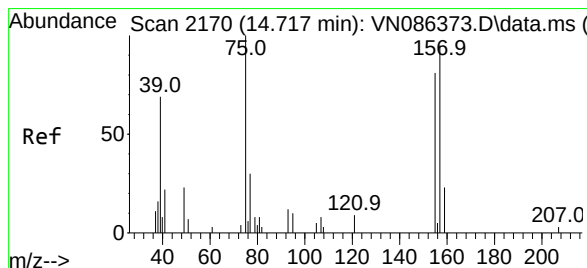
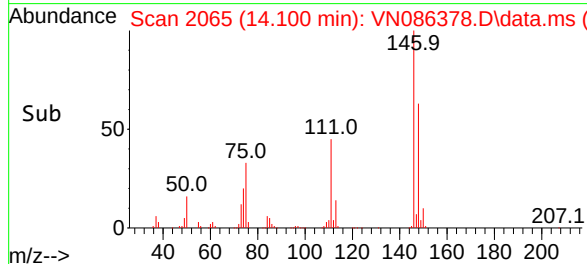
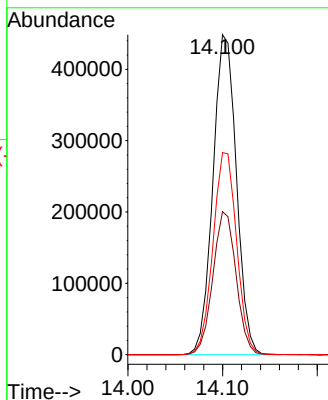
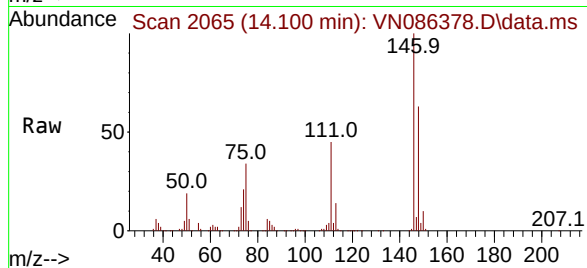
148 63.7 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 160.195 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

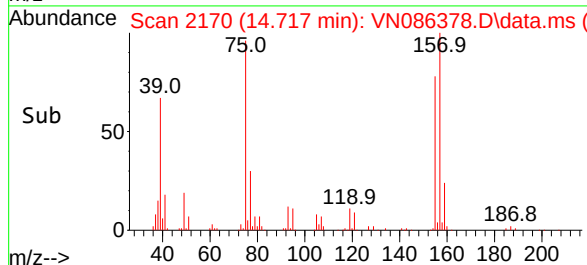
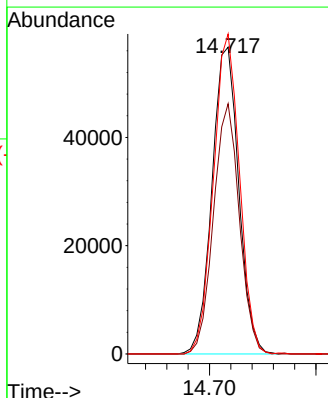
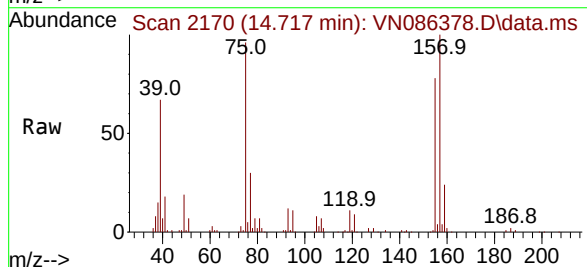
Tgt Ion: 75 Resp: 98763

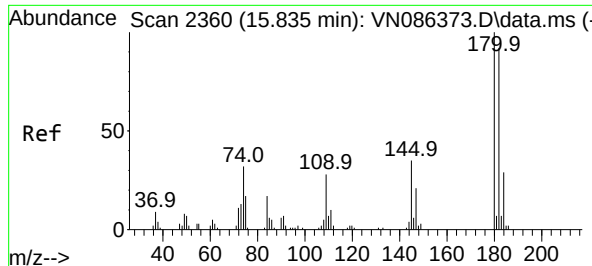
Ion Ratio Lower Upper

75 100

155 78.9 64.0 96.0

157 101.4 78.2 117.4





#89

1,2,4-Trichlorobenzene

Concen: 165.211 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:180 Resp: 35868

Ion Ratio Lower Upper

180 100

182 94.3 74.8 112.2

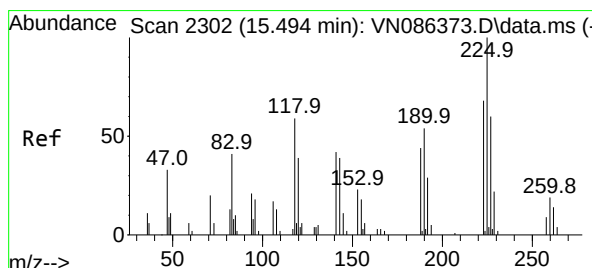
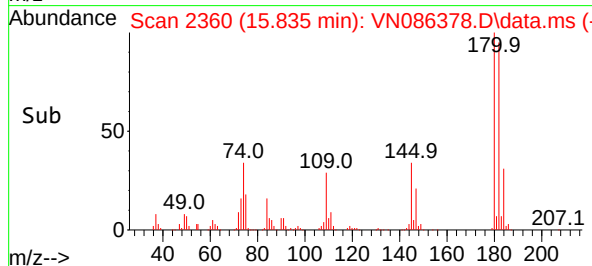
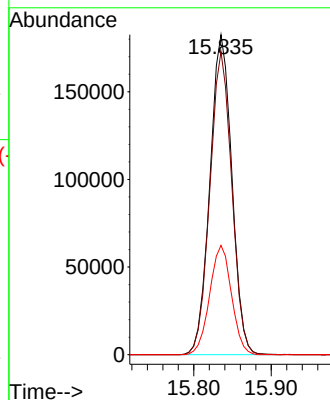
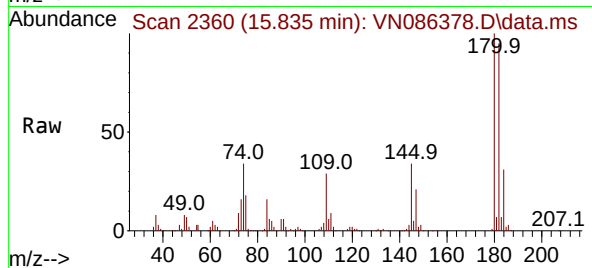
145 34.0 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

Concen: 151.803 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. 0.000 min

Lab File: VN086378.D

Acq: 23 Apr 2025 11:53

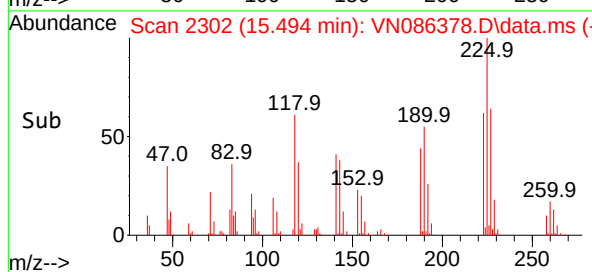
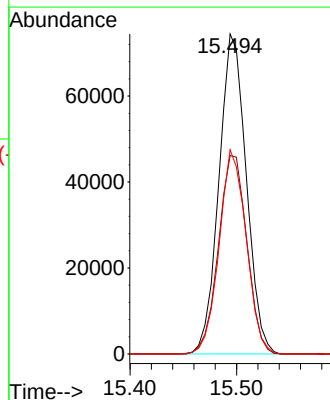
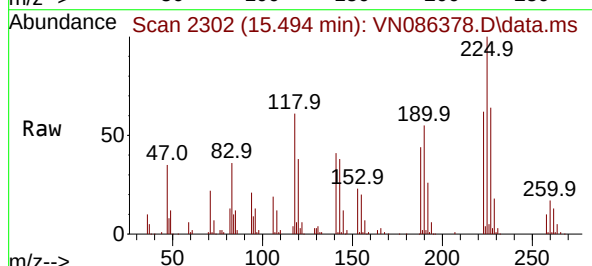
Tgt Ion:225 Resp: 132753

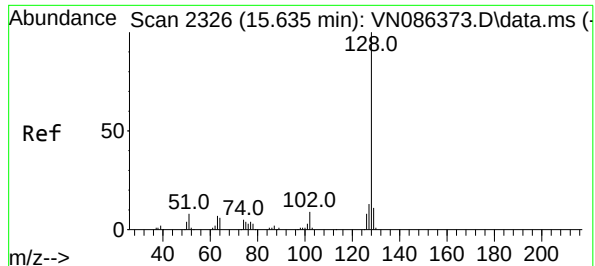
Ion Ratio Lower Upper

225 100

223 64.5 0.0 128.8

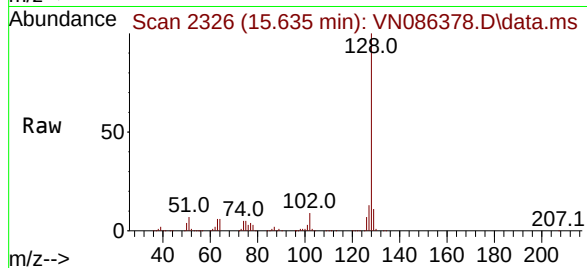
227 63.0 0.0 120.2





#91
Naphthalene
Concen: 166.356 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

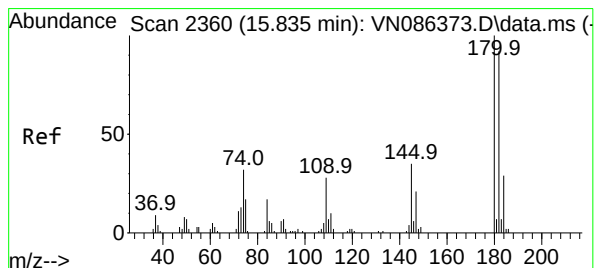
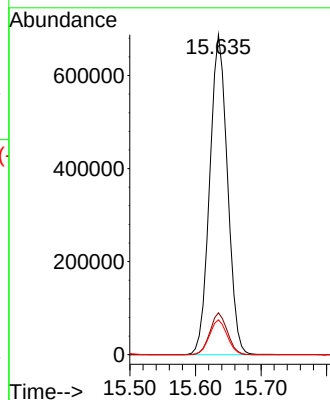
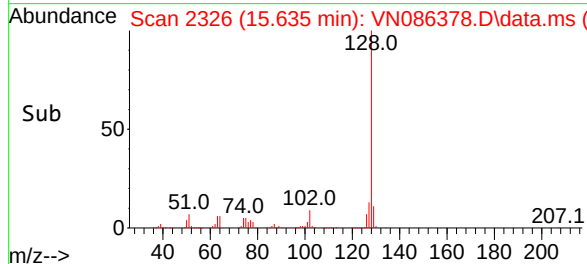
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:128 Resp: 129302
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 10.9 8.7 13.1

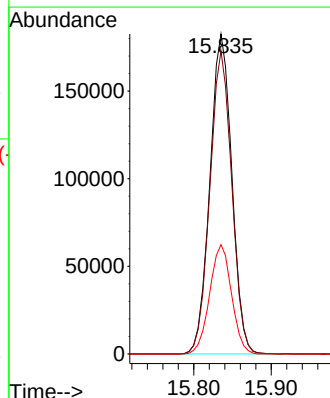
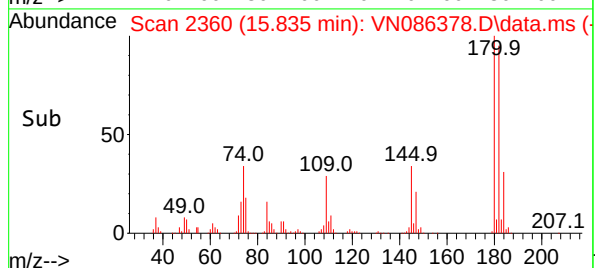
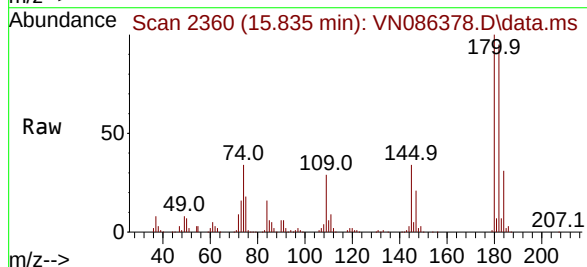
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 165.211 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086378.D
Acq: 23 Apr 2025 11:53

Tgt Ion:180 Resp: 358682
Ion Ratio Lower Upper
180 100
182 94.3 0.0 187.0
145 34.0 0.0 67.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086379.D
 Acq On : 23 Apr 2025 12:37
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:25:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30419	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	174699	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164127	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	84076	28.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.567%		
60) 4-Bromofluorobenzene	12.847	95	98684	30.592	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.967%		
63) Toluene-d8	10.565	98	268576	29.745	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	219730	104.629	ug/l	98
3) Chloromethane	2.360	50	306073	102.601	ug/l	97
4) Vinyl Chloride	2.512	62	291612	102.063	ug/l	98
5) Bromomethane	2.948	94	145025	97.222	ug/l	96
6) Chloroethane	3.112	64	188295	98.855	ug/l	96
7) Trichlorofluoromethane	3.501	101	339483	100.661	ug/l	99
8) Diethyl Ether	3.959	74	142350	99.994	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	210493	101.523	ug/l	97
10) 1,1-Dichloroethene	4.342	96	212572	100.169	ug/l	96
11) Methyl Iodide	4.589	142	254830	102.630	ug/l	97
12) Methyl Acetate	5.018	43	303813	101.006	ug/l	99
13) Acrolein	4.177	56	59777	526.461	ug/l	100
14) Acrylonitrile	5.712	53	562850	502.781	ug/l	99
15) Acetone	4.418	58	155944	505.531	ug/l	97
16) Carbon Disulfide	4.706	76	535511	95.765	ug/l	99
17) Allyl chloride	5.018	41	343007	101.086	ug/l	97
18) Methylene Chloride	5.271	84	240773	99.629	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	225835	99.843	ug/l	95
20) Diisopropyl ether	6.665	45	827730	102.594	ug/l	97
21) 1,1-Dichloroethane	6.565	63	442858	100.277	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	285798	101.049	ug/l	98
23) tert-Butyl Alcohol	5.512	59	203036	468.185	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	786920	100.365	ug/l	99
25) Chloroform	7.959	83	444712	99.497	ug/l	98
26) Cyclohexane	8.253	56	388134	99.536	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	323903	105.170	ug/l	99
30) 2-Butanone	7.477	43	777621	520.201	ug/l	100
31) 2,2-Dichloropropane	7.489	77	407332	102.887	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	378868	102.945	ug/l	99
33) Carbon Tetrachloride	8.359	117	315313	104.076	ug/l	98
34) Benzene	8.600	78	1017889	103.912	ug/l	98
35) Methacrylonitrile	7.777	41	176285	103.381	ug/l	97
36) 1,2-Dichloroethane	8.665	62	330021	103.769	ug/l	99
37) Trichloroethene	9.347	130	256115	104.441	ug/l	94
38) Methylcyclohexane	9.594	83	374627	105.322	ug/l	99
39) 1,2-Dichloropropane	9.618	63	248413	102.652	ug/l	97
40) Dibromomethane	9.706	93	165831	102.469	ug/l	98
41) Bromodichloromethane	9.883	83	356275	104.030	ug/l	100
42) Vinyl Acetate	6.600	43	2634471	508.753	ug/l	100

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 Data File : VN086379.D
 Acq On : 23 Apr 2025 12:37
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:25:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

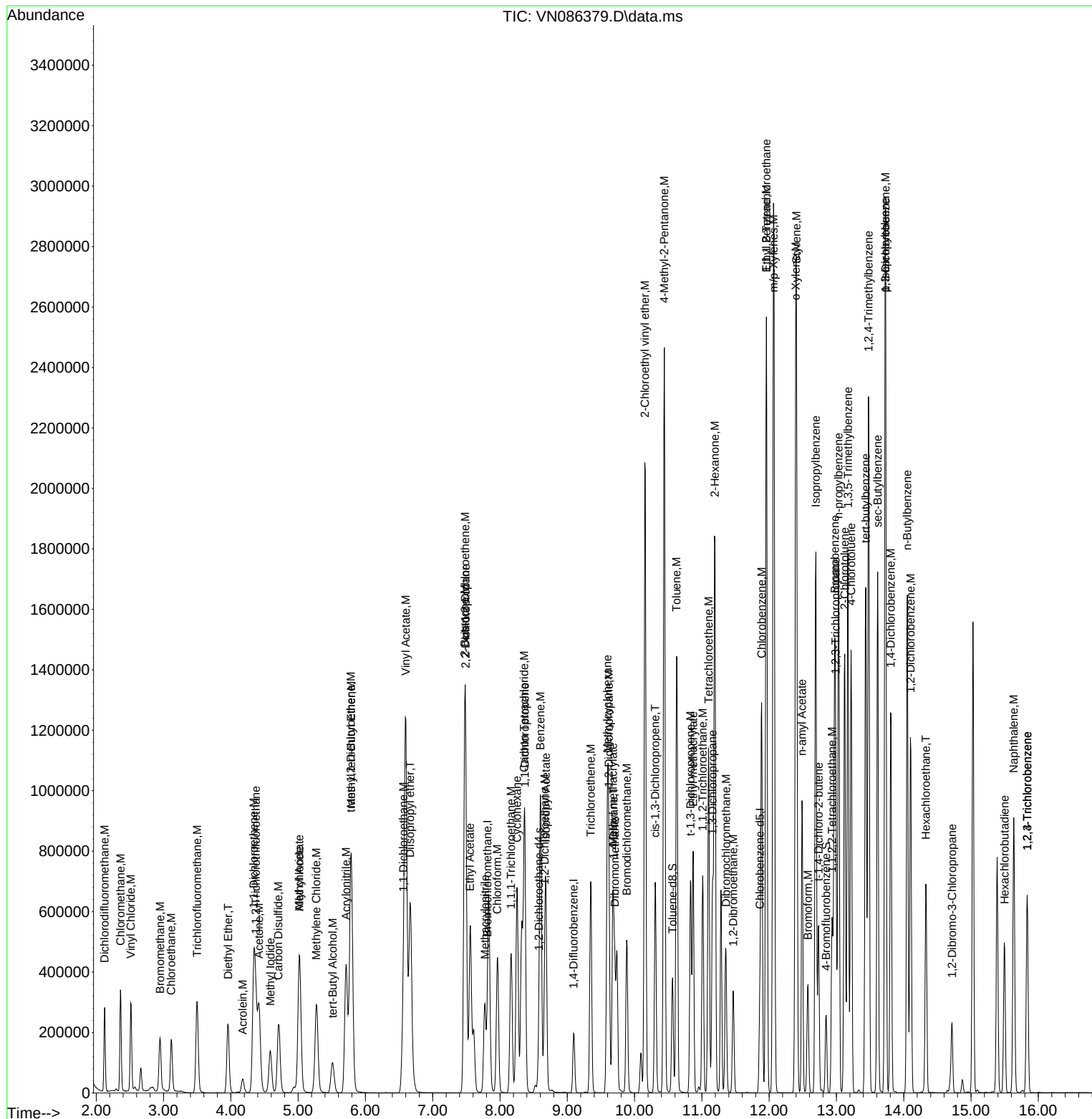
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43) Ethyl Acetate	7.553	43	296729	100.306	ug/l	98
44) Isopropyl Acetate	8.683	43	563189	100.309	ug/l	99
45) 1,4-Dioxane	9.688	88	89081	2033.531	ug/l	97
46) Methyl methacrylate	9.677	41	266838	103.033	ug/l	99
47) n-amyl Acetate	12.488	43	504826	105.493	ug/l	99
48) t-1,3-Dichloropropene	10.830	75	406922	106.279	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	426255	105.570	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	235538	104.198	ug/l	97
51) Ethyl methacrylate	10.871	69	418356	106.266	ug/l	98
52) 1,3-Dichloropropane	11.159	76	415656	104.040	ug/l	100
53) Dibromochloromethane	11.359	129	266681	105.065	ug/l	99
54) 1,2-Dibromoethane	11.465	107	239438	104.177	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	956039	516.516	ug/l	100
56) Bromoform	12.576	173	175855	106.763	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	1605575	505.519	ug/l	100
59) 2-Hexanone	11.194	43	1186815	507.067	ug/l	99
61) Tetrachloroethene	11.100	164	256056	102.288	ug/l	96
62) Toluene	10.624	91	1133294	103.158	ug/l	99
64) Chlorobenzene	11.888	112	706237	103.170	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	236307	103.242	ug/l	99
66) Ethyl Benzene	11.959	91	1290476	104.357	ug/l	100
67) m/p-Xylenes	12.065	106	977944	208.429	ug/l	97
68) o-Xylene	12.394	106	479032	104.273	ug/l	98
69) Styrene	12.406	104	833303	107.015	ug/l	99
70) Isopropylbenzene	12.694	105	1206389	105.197	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	302296	100.113	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	265966m	101.648	ug/l	
73) Bromobenzene	12.976	156	273523	103.746	ug/l	98
74) n-propylbenzene	13.029	91	1448668	106.306	ug/l	100
75) 2-Chlorotoluene	13.124	91	881066	103.571	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	989559	105.165	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	143204	107.186	ug/l	95
78) 4-Chlorotoluene	13.218	91	902138	106.061	ug/l	100
79) tert-butylbenzene	13.435	119	838738	104.079	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	1000736	104.137	ug/l	97
81) sec-Butylbenzene	13.612	105	1210897	105.264	ug/l	99
82) p-Isopropyltoluene	13.723	119	1030447	107.051	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	525798	105.501	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	520155	105.635	ug/l	99
85) n-Butylbenzene	14.053	91	933101	108.639	ug/l	99
86) Hexachloroethane	14.329	117	169652	107.787	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	495563	104.502	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.718	75	63382	103.269	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	235238	108.839	ug/l	98
90) Hexachlorobutadiene	15.500	225	91753	105.391	ug/l	99
91) Naphthalene	15.635	128	843461	109.005	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	235238	108.839	ug/l	98

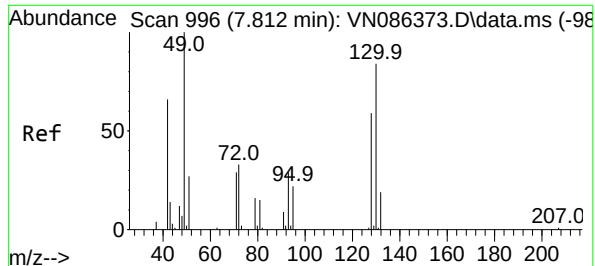
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025





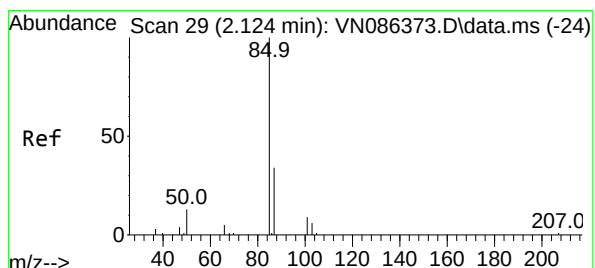
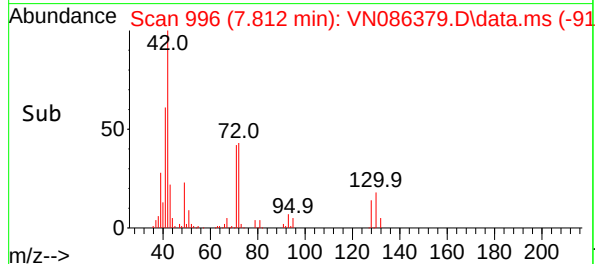
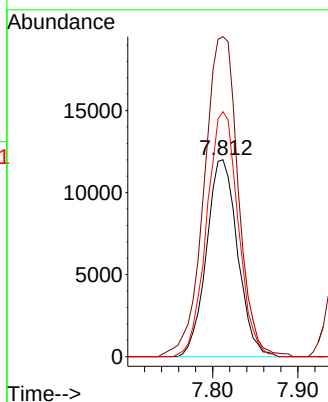
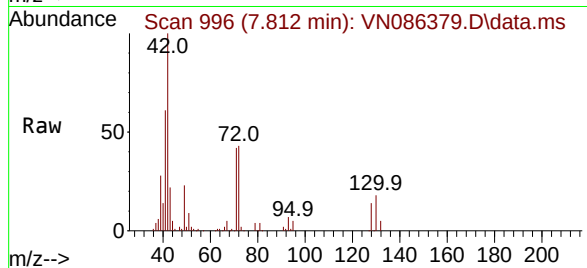
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion	Ratio	Lower	Upper
128	100		
49	178.3	0.0	433.8
130	126.1	0.0	325.0

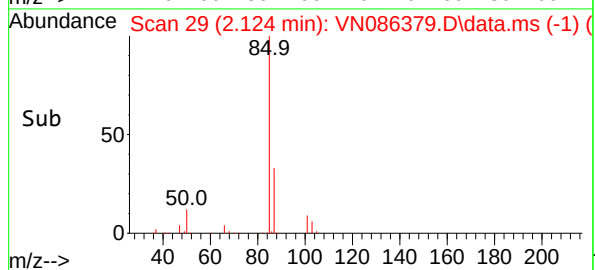
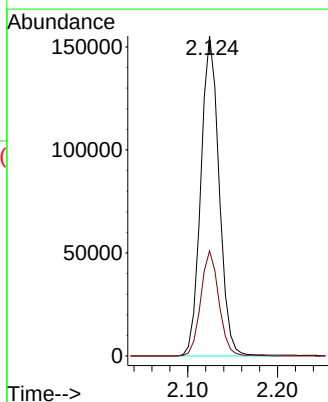
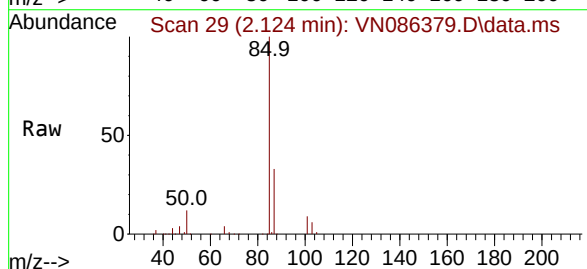
Manual Integrations
APPROVED

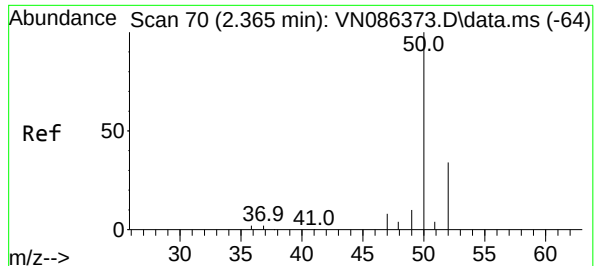
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 104.629 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	17.0	50.9





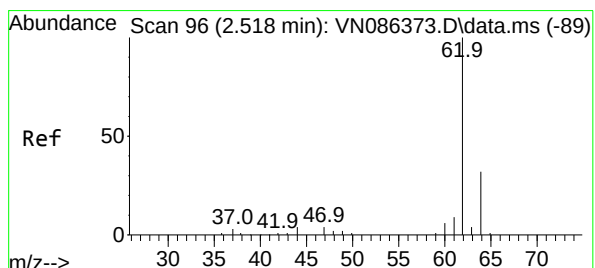
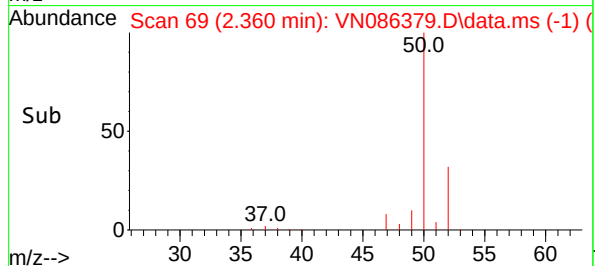
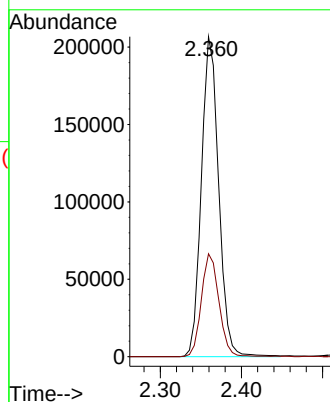
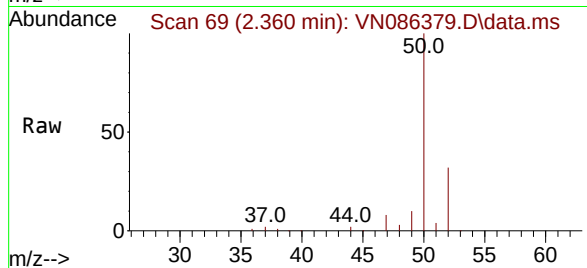
#3
Chloromethane
Concen: 102.601 ug/l
RT: 2.360 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 306073
Ion Ratio Lower Upper
50 100
52 32.2 27.3 40.9

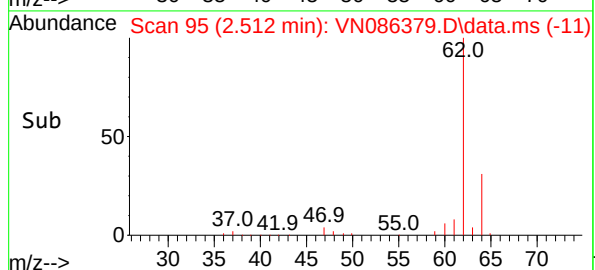
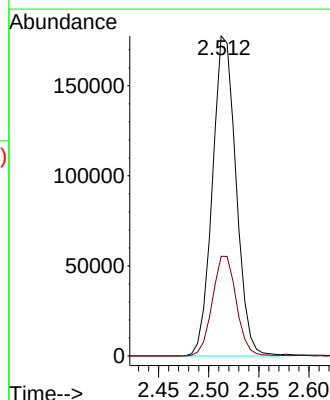
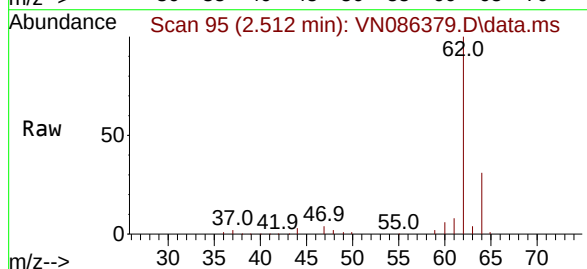
Manual Integrations
APPROVED

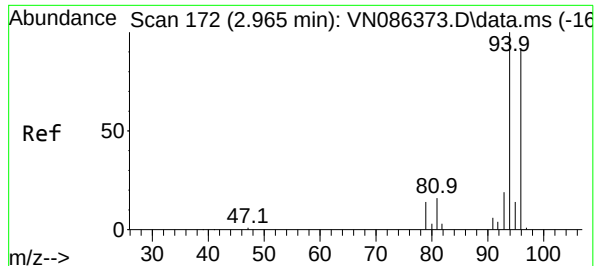
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 102.063 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

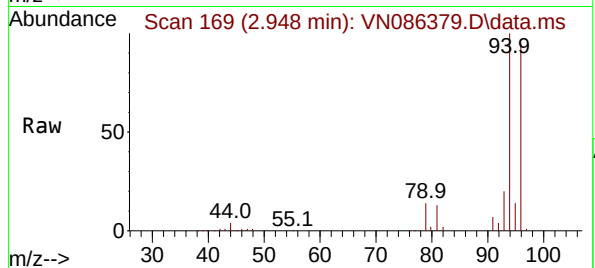
Tgt Ion: 62 Resp: 291612
Ion Ratio Lower Upper
62 100
64 31.2 25.8 38.8





#5
Bromomethane
Concen: 97.222 ug/l
RT: 2.948 min Scan# 169
Delta R.T. -0.017 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

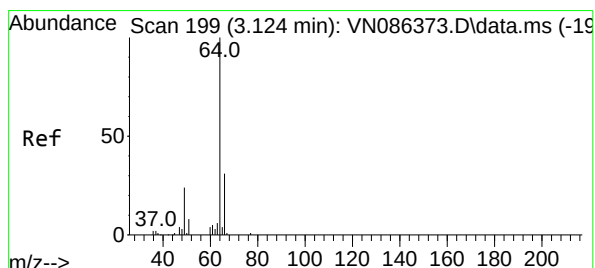
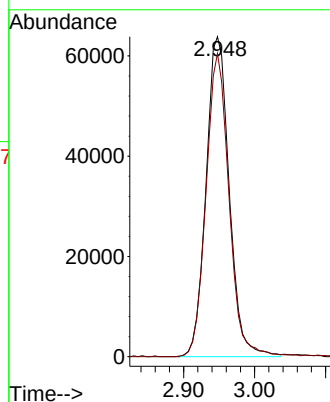
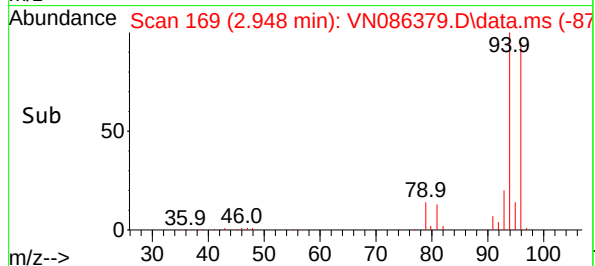
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 145025
Ion Ratio Lower Upper
94 100
96 94.5 72.4 108.6

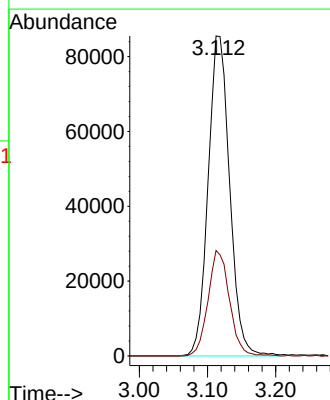
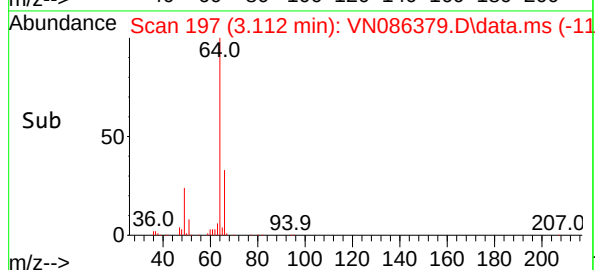
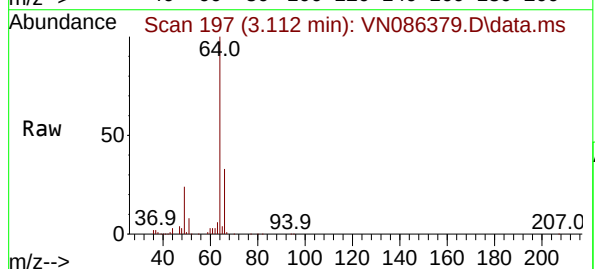
Manual Integrations
APPROVED

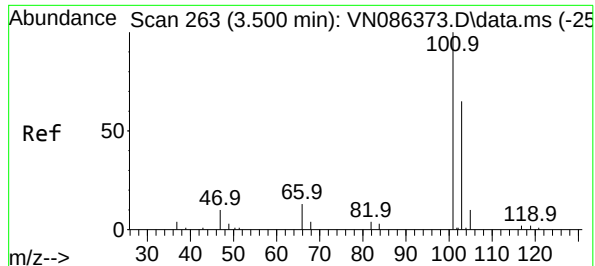
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 98.855 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

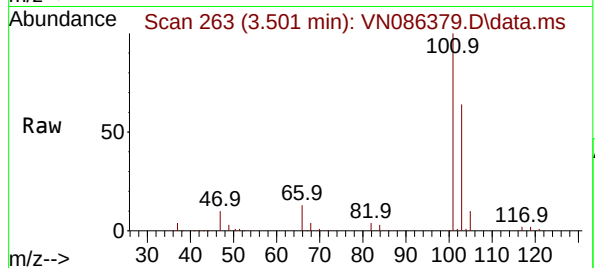
Tgt Ion: 64 Resp: 188295
Ion Ratio Lower Upper
64 100
66 32.9 24.5 36.7





#7
Trichlorofluoromethane
Concen: 100.661 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

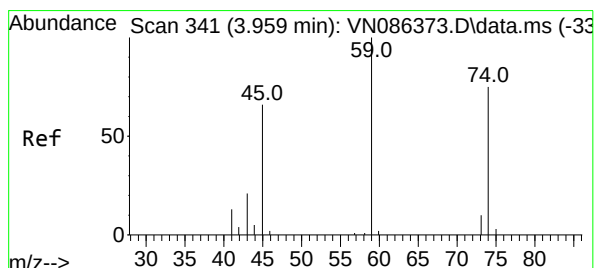
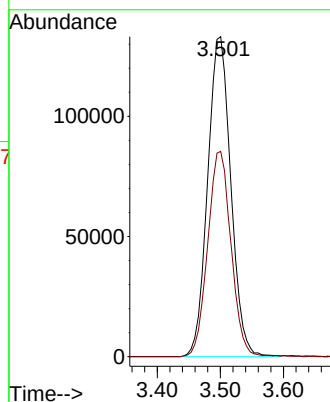
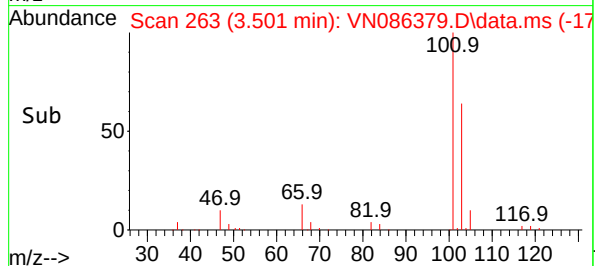
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 101 Resp: 33948
Ion Ratio Lower Upper
101 100
103 64.1 51.8 77.6

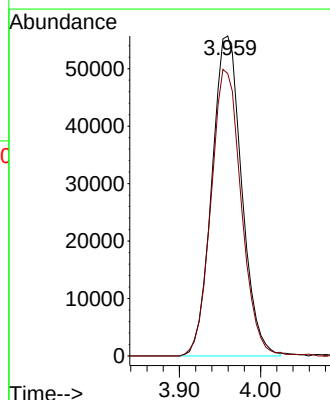
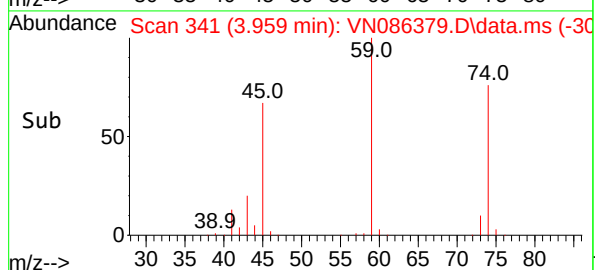
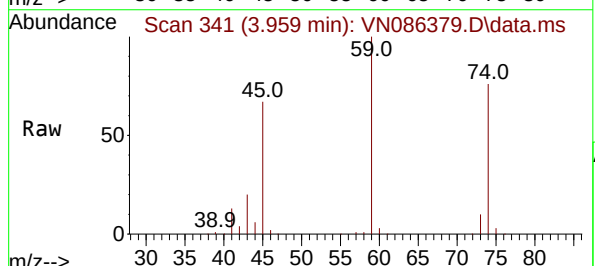
Manual Integrations
APPROVED

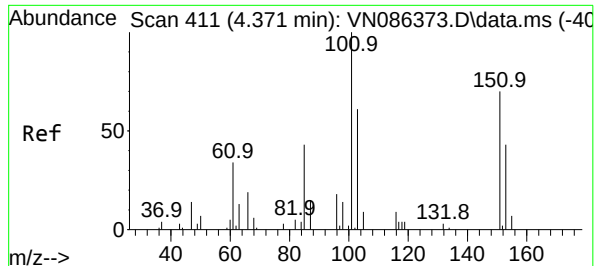
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 99.994 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 74 Resp: 142350
Ion Ratio Lower Upper
74 100
45 90.5 18.5 166.3





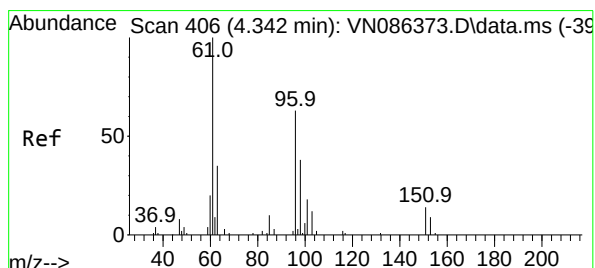
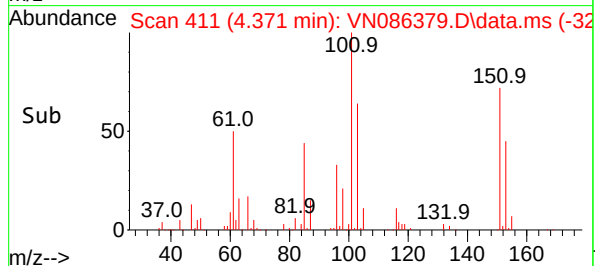
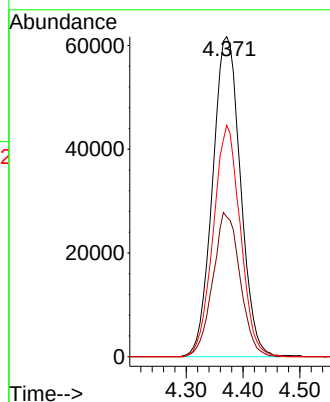
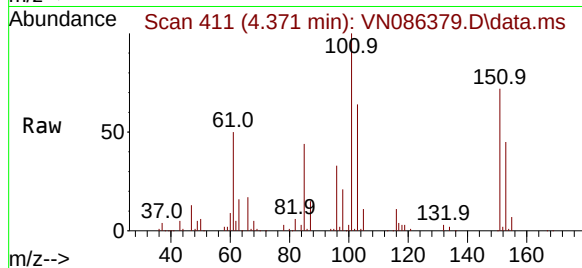
#9
1,1,2-Trichlorotrifluoroethane
Concen: 101.523 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:101 Resp: 21049
Ion Ratio Lower Upper
101 100
85 44.0 0.0 84.4
151 70.0 0.0 145.8

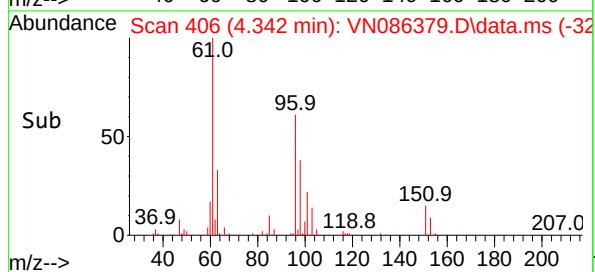
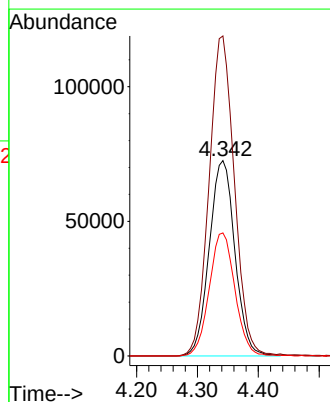
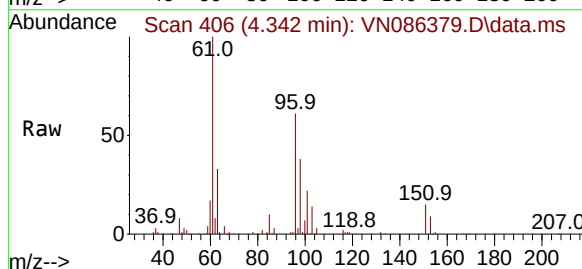
Manual Integrations
APPROVED

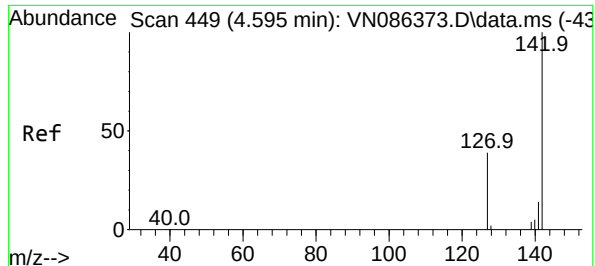
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 100.169 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 96 Resp: 212572
Ion Ratio Lower Upper
96 100
61 163.5 126.2 189.4
98 62.9 48.5 72.7





#11

Methyl Iodide

Concen: 102.630 ug/l

RT: 4.589 min Scan# 449

Delta R.T. -0.006 min

Lab File: VN086379.D

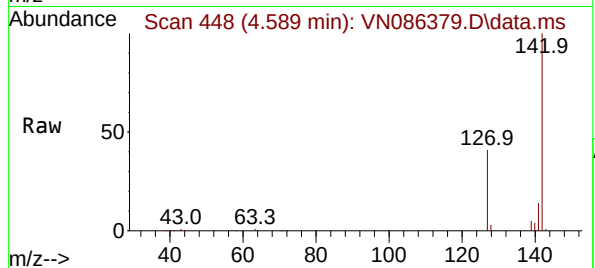
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Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion:142 Resp: 254830

Ion Ratio Lower Upper

142 100

127 41.0 19.3 57.9

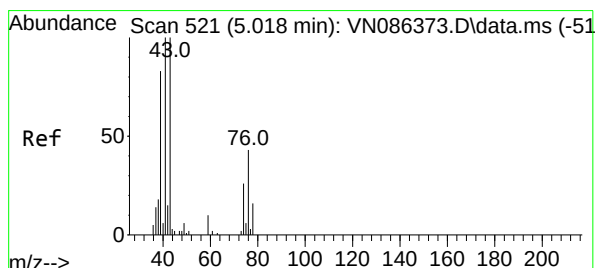
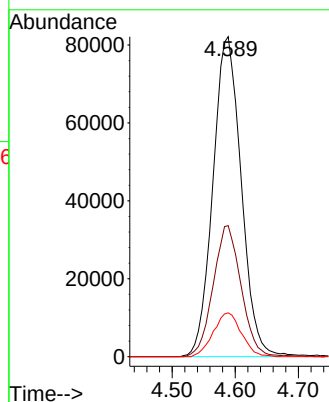
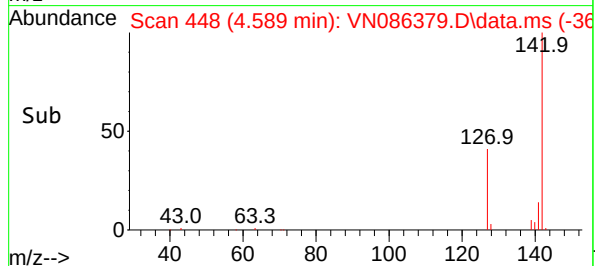
141 13.7 7.1 21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 101.006 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086379.D

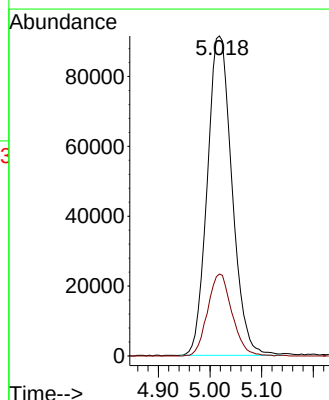
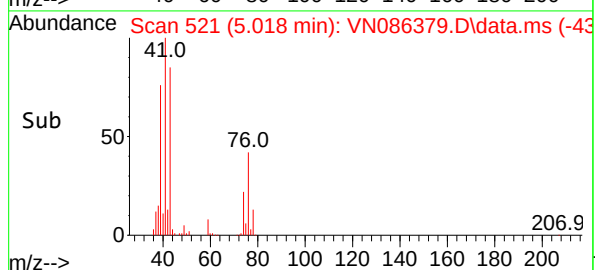
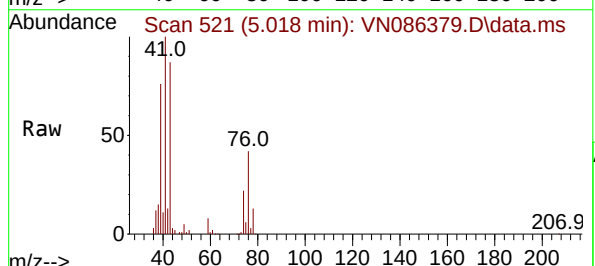
Acq: 23 Apr 2025 12:37

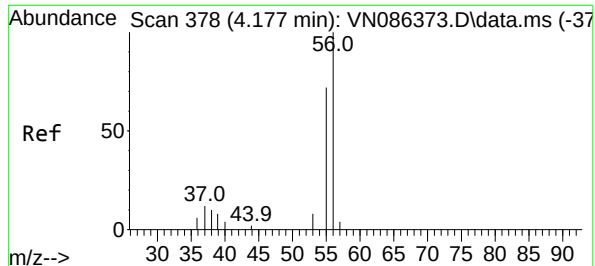
Tgt Ion: 43 Resp: 303813

Ion Ratio Lower Upper

43 100

74 25.6 20.8 31.2





#13

Acrolein

Concen: 526.461 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 5977

Ion Ratio Lower Upper

56 100

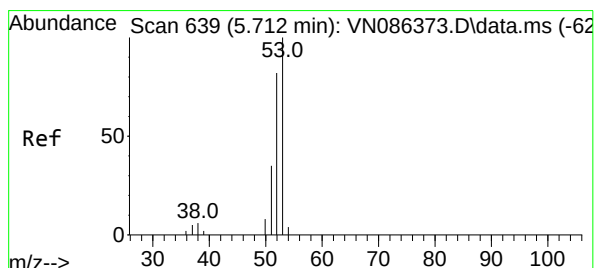
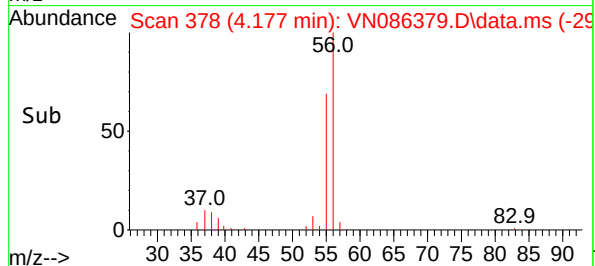
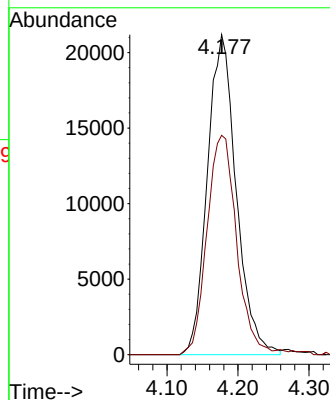
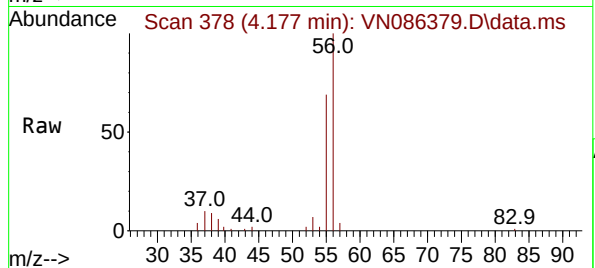
55 70.1 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 502.781 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

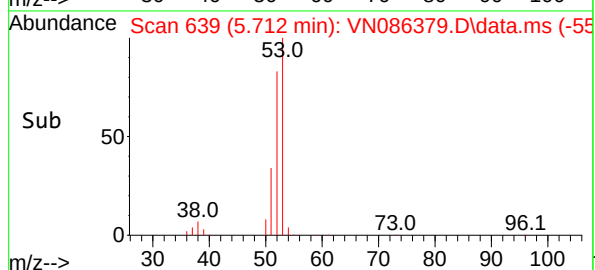
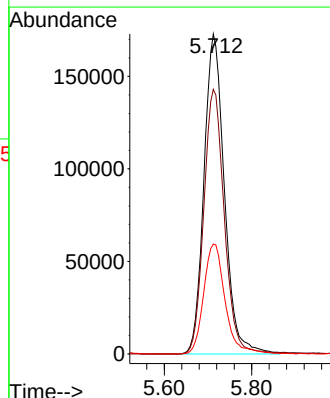
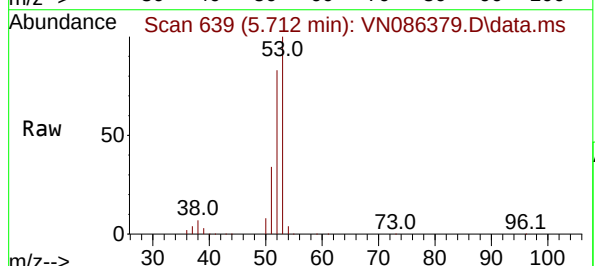
Tgt Ion: 53 Resp: 562850

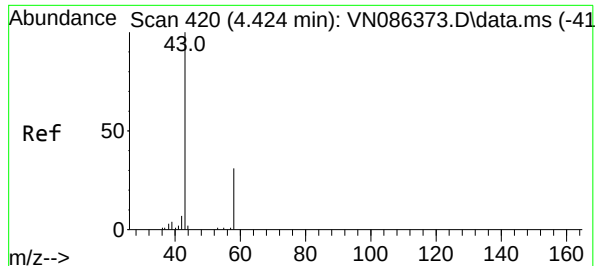
Ion Ratio Lower Upper

53 100

52 82.7 41.2 123.6

51 35.9 17.6 52.8





#15

Acetone

Concen: 505.531 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 58 Resp: 155944

Ion Ratio Lower Upper

58 100

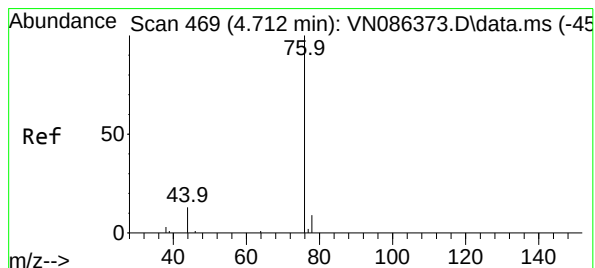
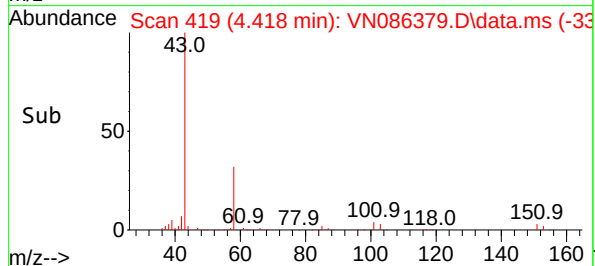
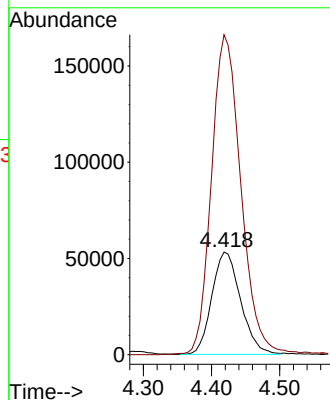
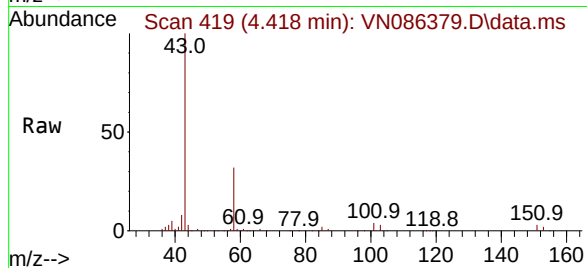
43 311.9 255.1 382.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 95.765 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN086379.D

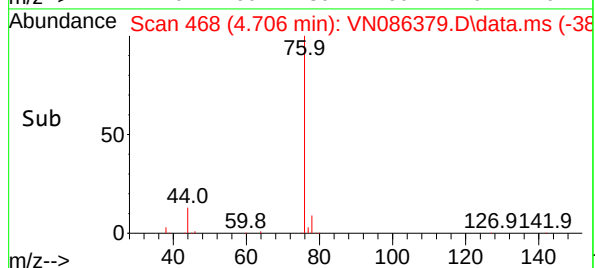
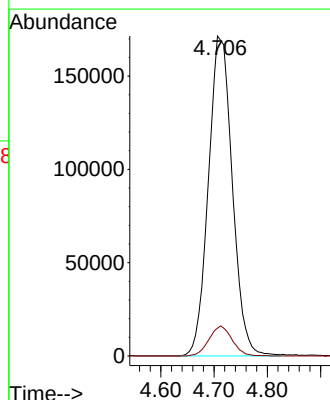
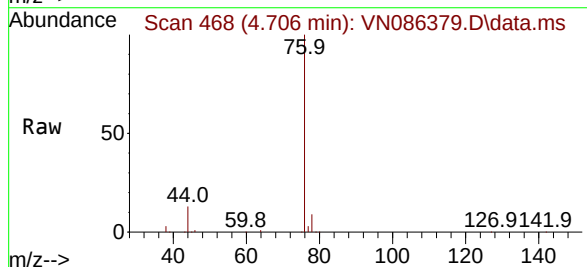
Acq: 23 Apr 2025 12:37

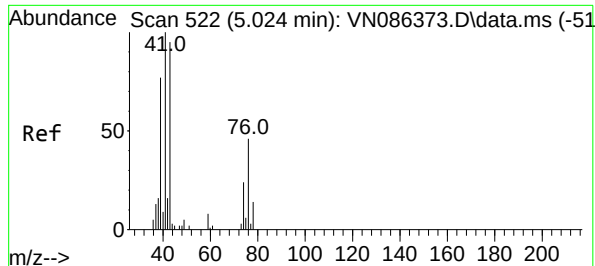
Tgt Ion: 76 Resp: 535511

Ion Ratio Lower Upper

76 100

78 8.7 7.1 10.7





#17

Allyl chloride

Concen: 101.086 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

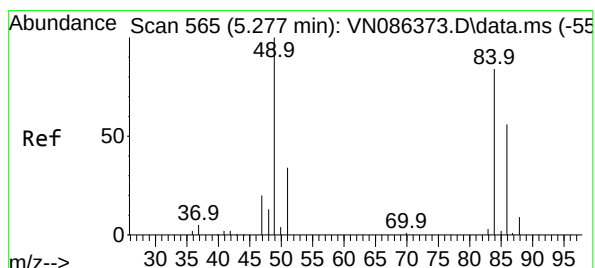
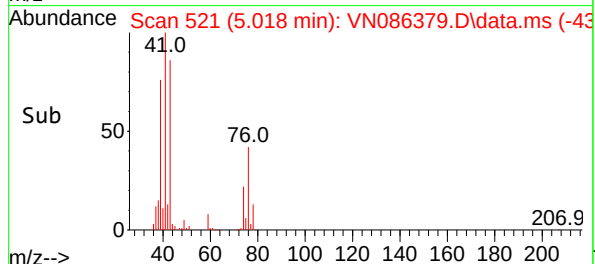
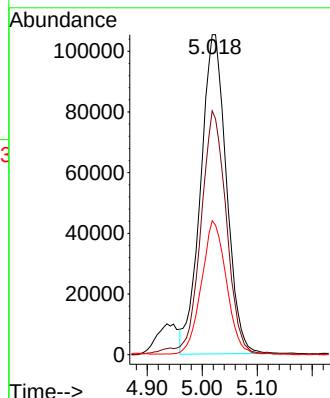
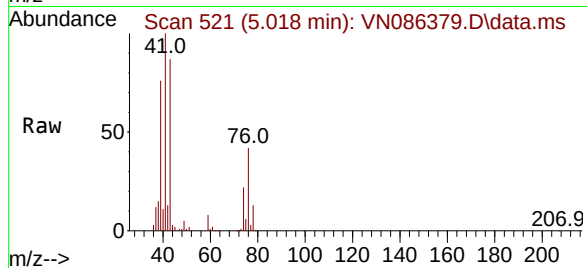
Tgt Ion:	41	Resp:	34300
Ion	Ratio	Lower	Upper
41	100		
39	76.3	36.7	110.1
76	41.8	21.8	65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 99.629 ug/l

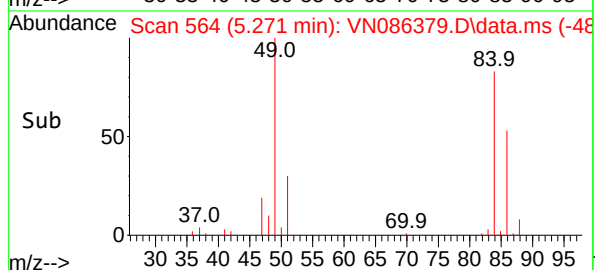
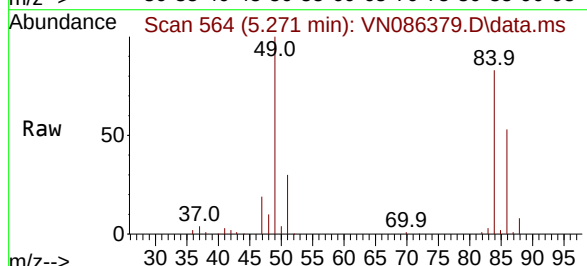
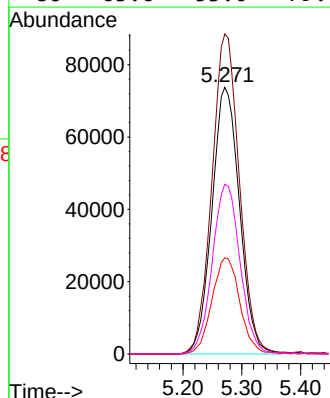
RT: 5.271 min Scan# 564

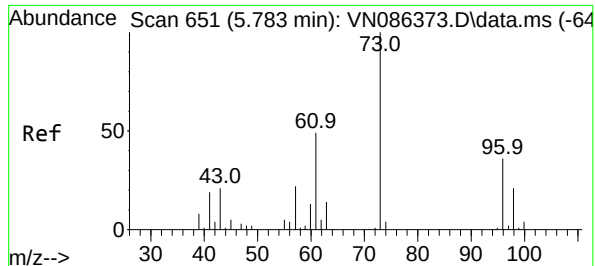
Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Tgt Ion:	84	Resp:	240773
Ion	Ratio	Lower	Upper
84	100		
49	120.0	95.4	143.0
51	36.1	32.8	49.2
86	63.6	53.0	79.4





#19

trans-1,2-Dichloroethene

Concen: 99.843 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 225835

Ion Ratio Lower Upper

96 100

61 138.8 107.3 160.9

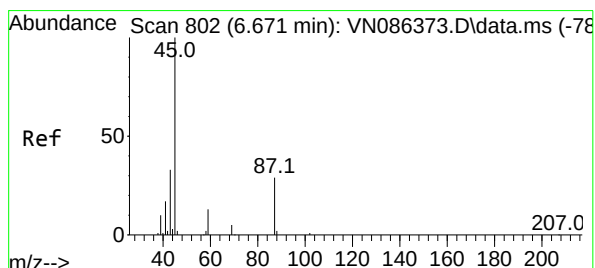
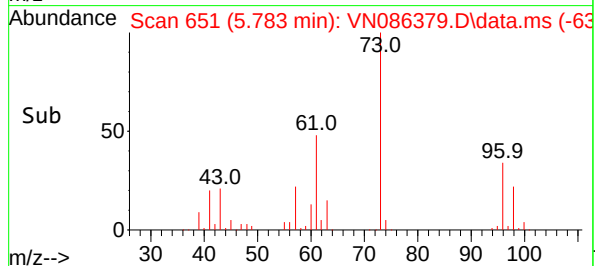
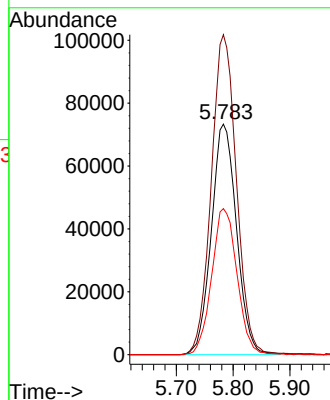
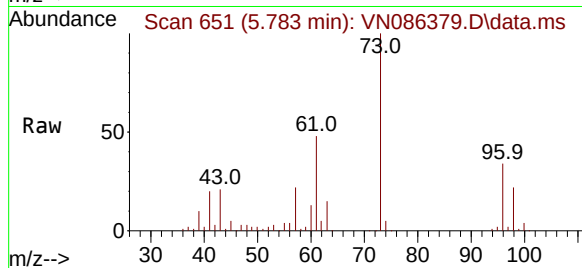
98 63.3 46.7 70.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 102.594 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Tgt Ion: 45 Resp: 827730

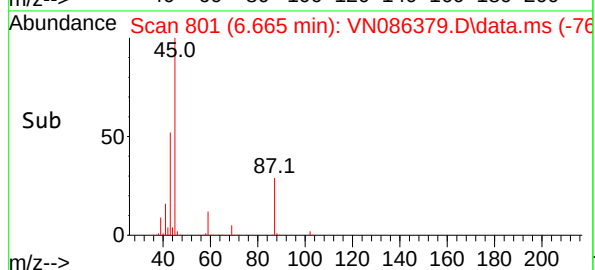
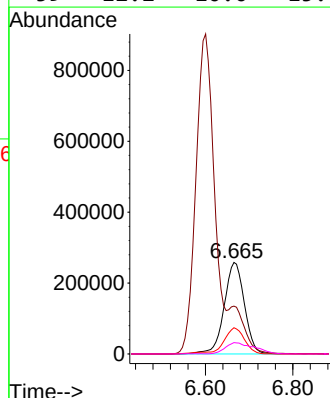
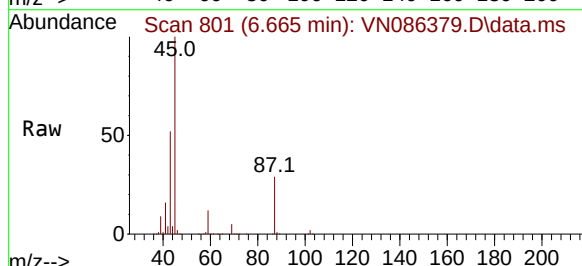
Ion Ratio Lower Upper

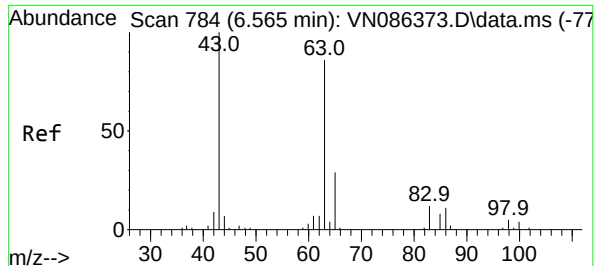
45 100

43 51.6 38.8 58.2

87 28.6 23.5 35.3

59 12.2 10.0 15.0





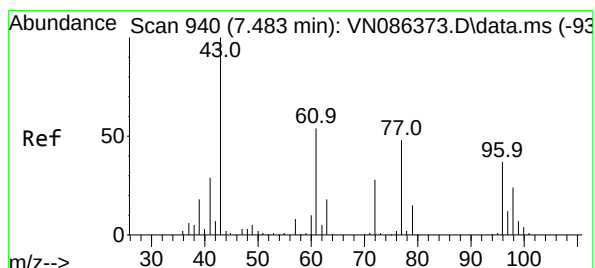
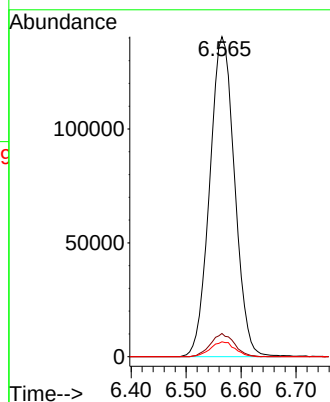
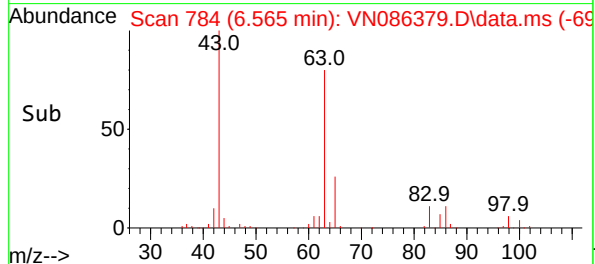
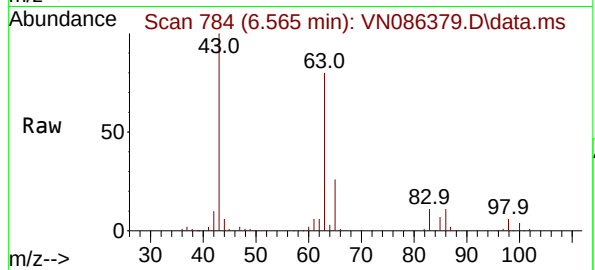
#21
1,1-Dichloroethane
Concen: 100.277 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 442858
Ion Ratio Lower Upper
63 100
98 7.3 3.0 9.2
100 4.7 2.3 6.8

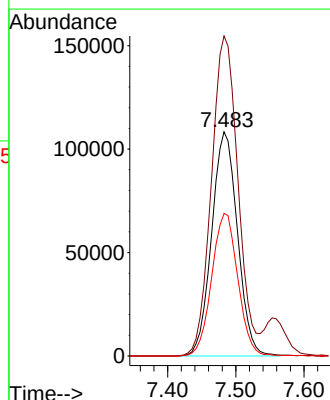
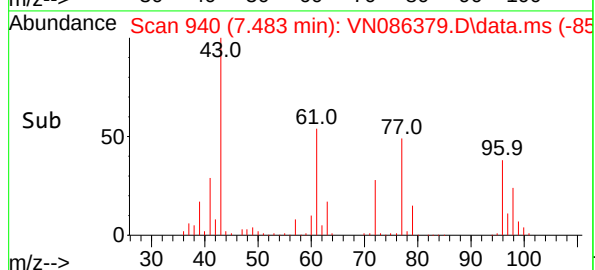
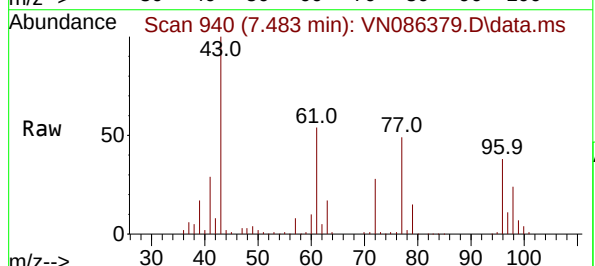
Manual Integrations
APPROVED

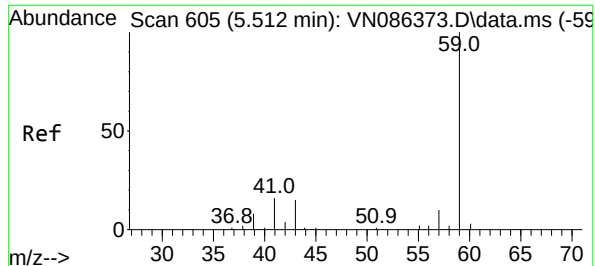
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 101.049 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 96 Resp: 285798
Ion Ratio Lower Upper
96 100
61 147.2 120.6 181.0
98 64.2 51.8 77.6





#23

tert-Butyl Alcohol

Concen: 468.185 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 203030

Ion Ratio Lower Upper

59 100

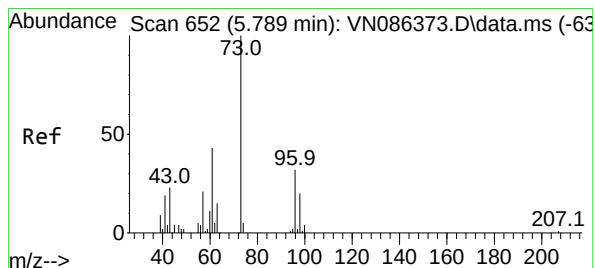
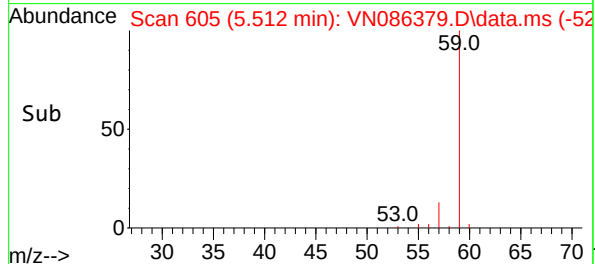
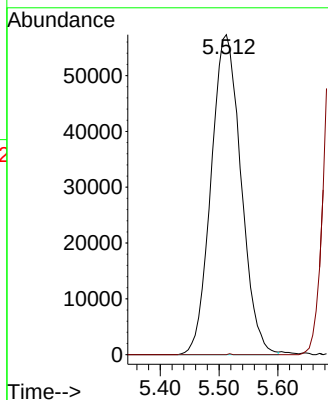
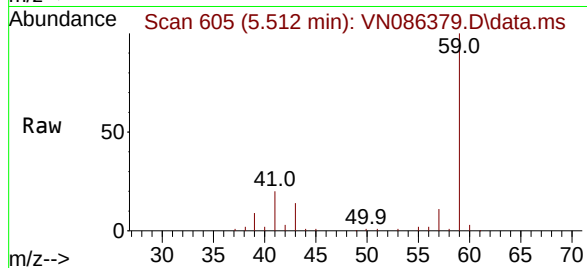
52 0.0 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#24

Methyl tert-Butyl Ether

Concen: 100.365 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086379.D

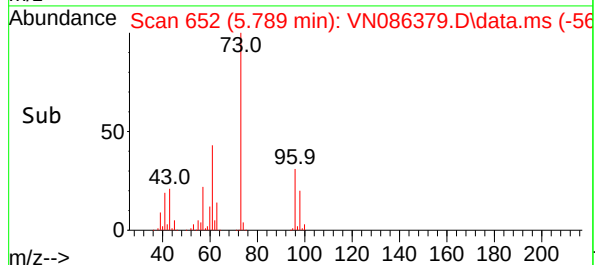
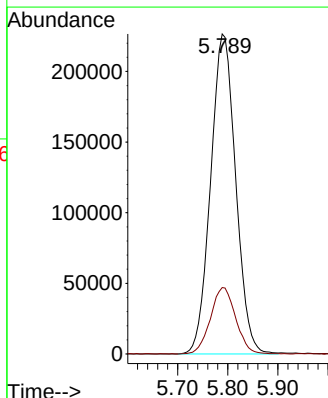
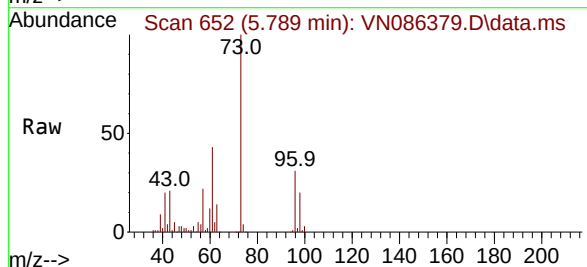
Acq: 23 Apr 2025 12:37

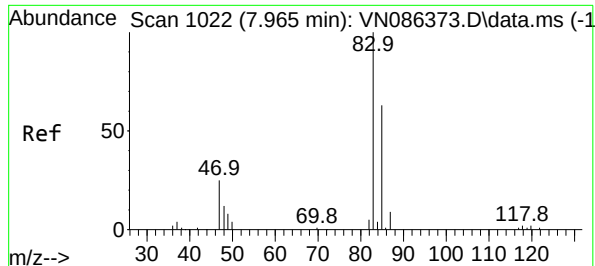
Tgt Ion: 73 Resp: 786920

Ion Ratio Lower Upper

73 100

43 20.9 17.1 25.7





#25

Chloroform

Concen: 99.497 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 444712

Ion Ratio Lower Upper

83 100

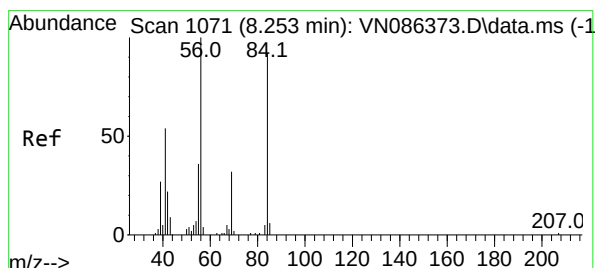
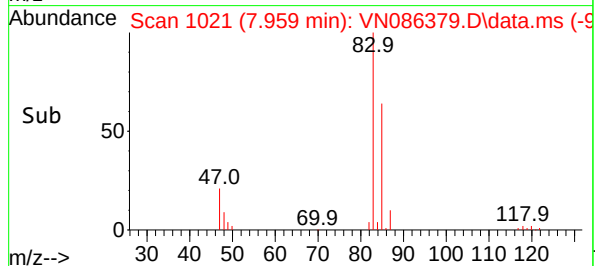
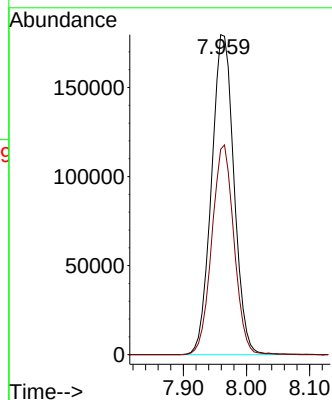
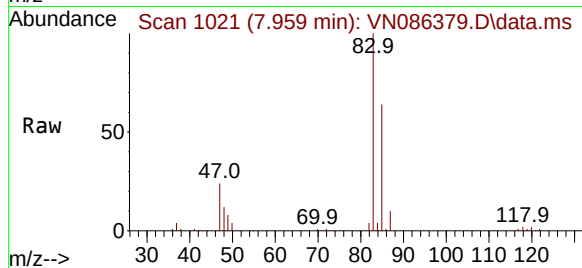
85 64.2 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 99.536 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

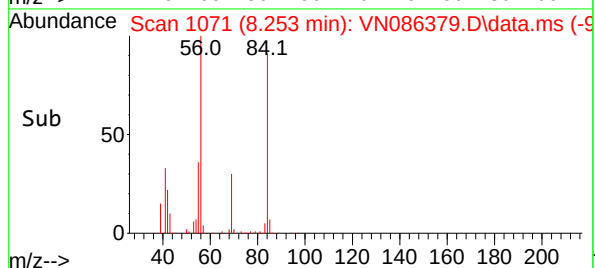
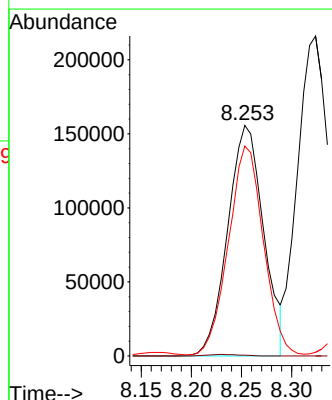
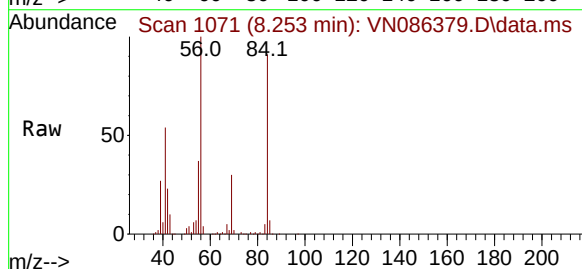
Tgt Ion: 56 Resp: 388134

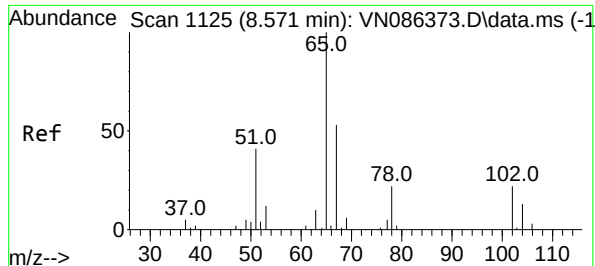
Ion Ratio Lower Upper

56 100

89 0.6 0.0 0.0#

84 89.1 71.5 107.3





#27

1,2-Dichloroethane-d4

Concen: 28.668 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 84070

Ion Ratio Lower Upper

65 100

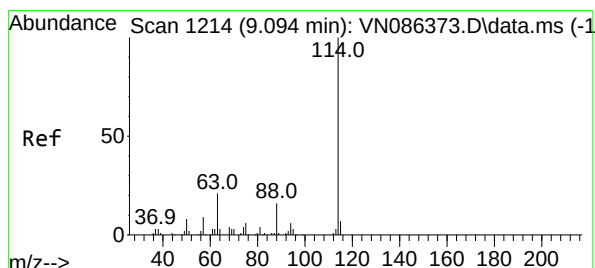
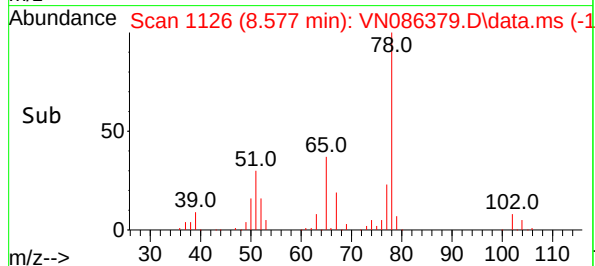
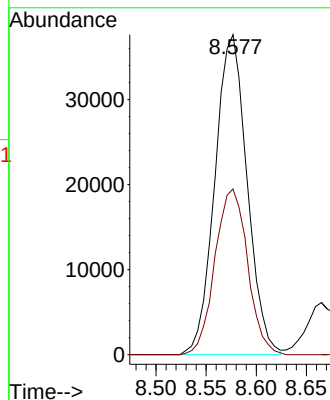
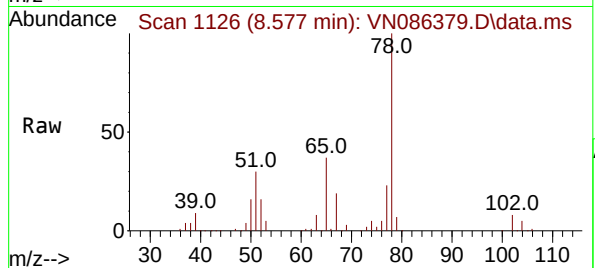
67 52.4 42.5 63.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

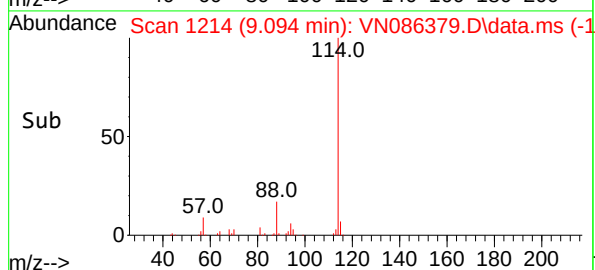
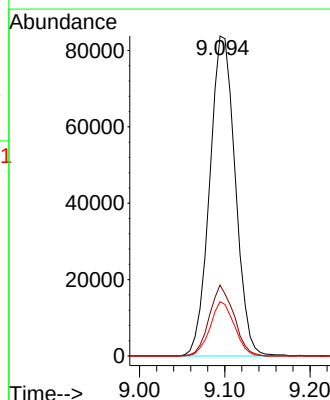
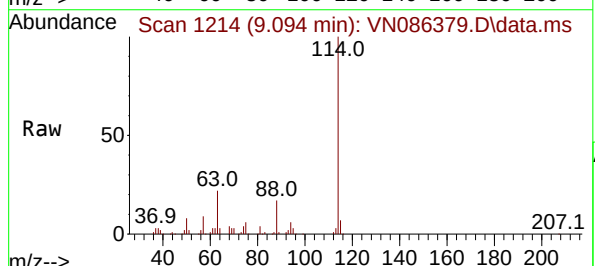
Tgt Ion:114 Resp: 174699

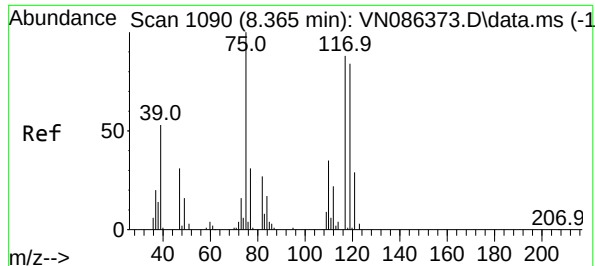
Ion Ratio Lower Upper

114 100

63 21.2 16.7 25.1

88 16.0 12.6 19.0





#29

1,1-Dichloropropene

Concen: 105.170 ug/l

RT: 8.371 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 32390

Ion Ratio Lower Upper

75 100

110 34.4 0.0 68.0

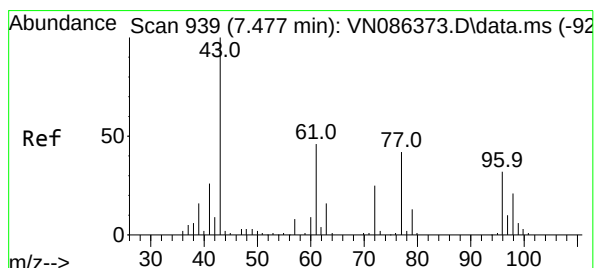
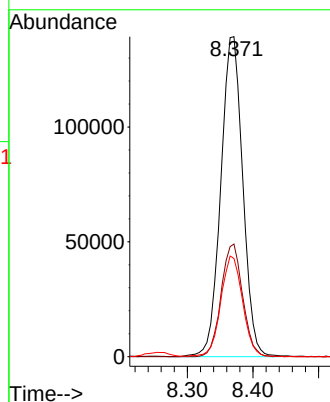
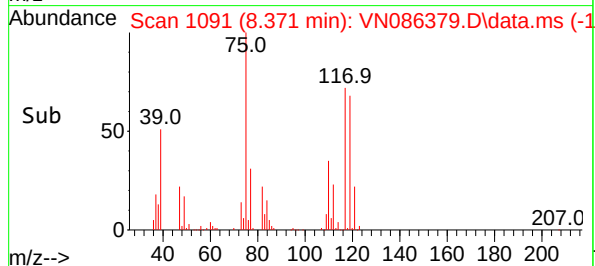
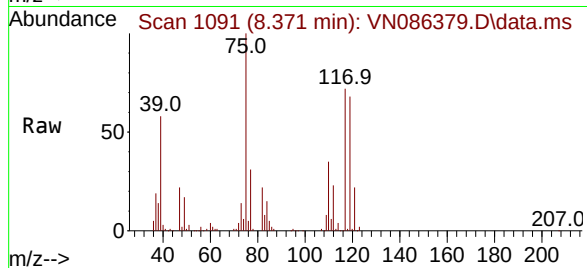
77 31.1 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 520.201 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

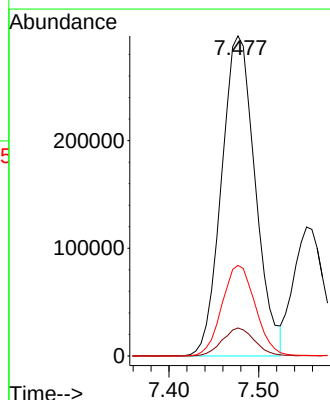
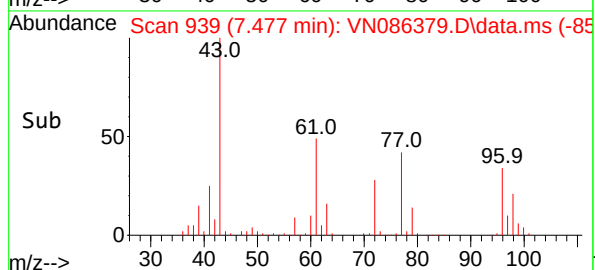
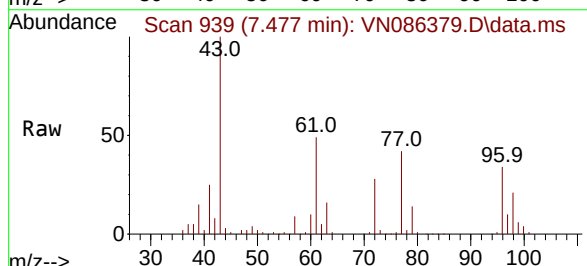
Tgt Ion: 43 Resp: 777621

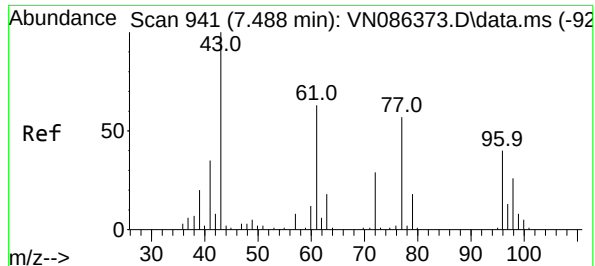
Ion Ratio Lower Upper

43 100

57 8.4 6.6 10.0

72 28.0 22.2 33.4





#31

2,2-Dichloropropane

Concen: 102.887 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 77 Resp: 40733

Ion Ratio Lower Upper

77 100

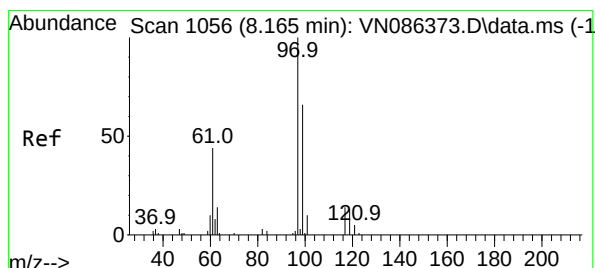
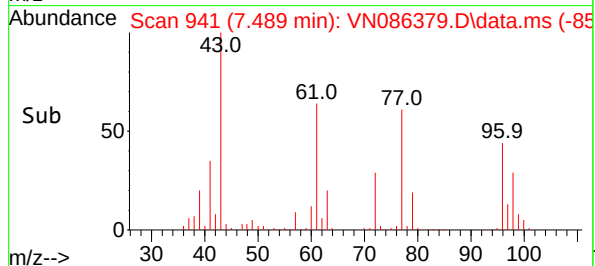
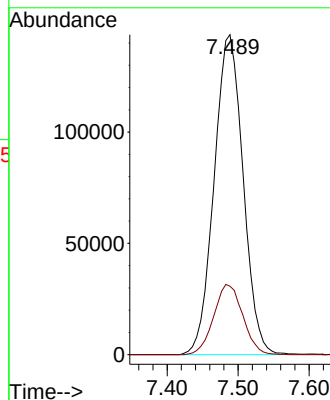
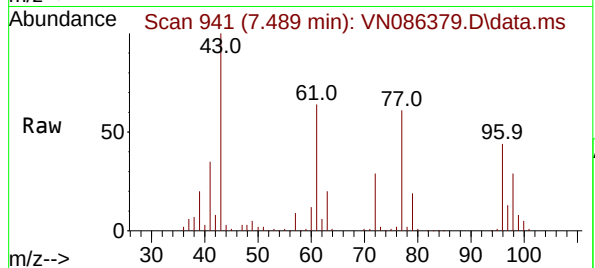
97 22.0 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#32

1,1,1-Trichloroethane

Concen: 102.945 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

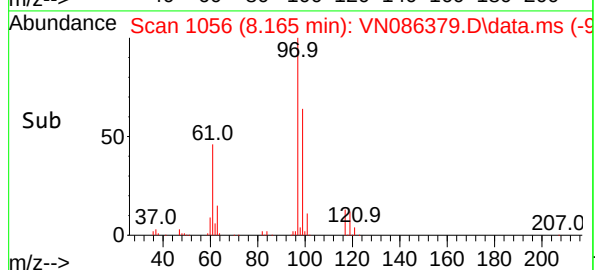
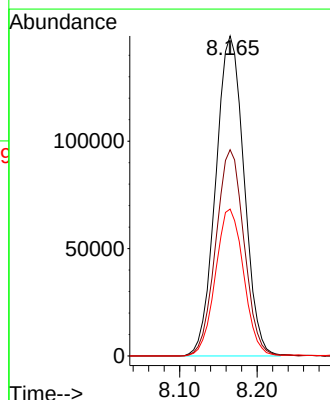
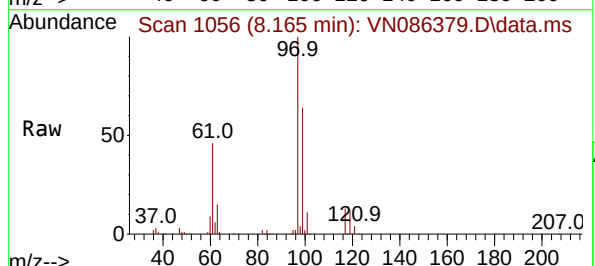
Tgt Ion: 97 Resp: 378868

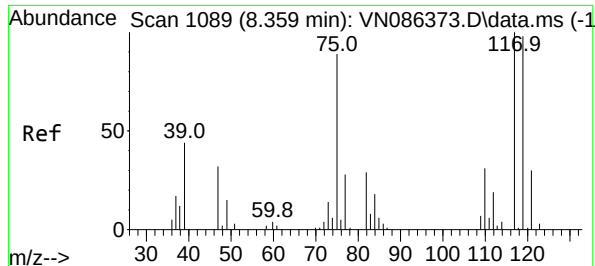
Ion Ratio Lower Upper

97 100

99 64.3 52.6 79.0

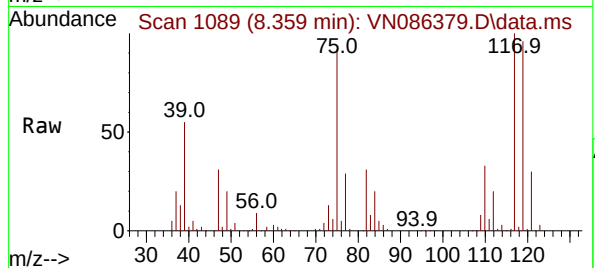
61 45.8 36.4 54.6





#33
Carbon Tetrachloride
Concen: 104.076 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

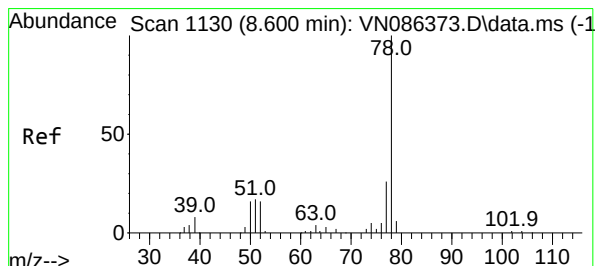
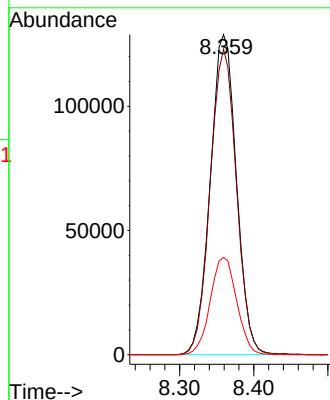
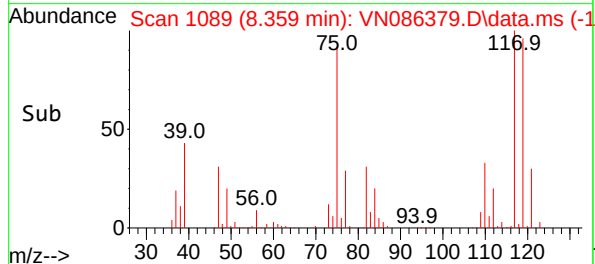
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 117 Resp: 31531
Ion Ratio Lower Upper
117 100
119 95.3 78.6 117.8
121 30.4 24.0 36.0

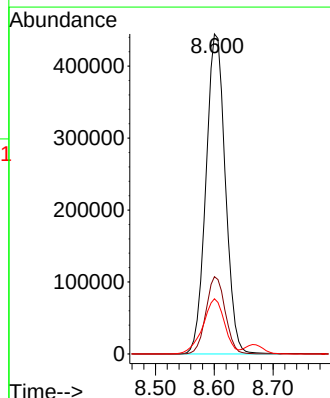
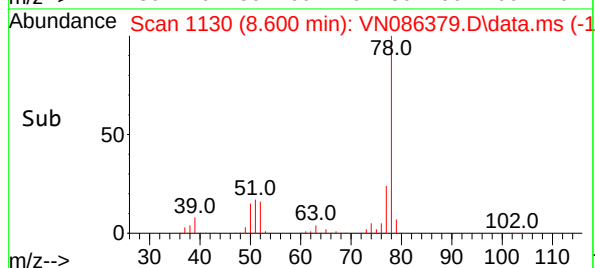
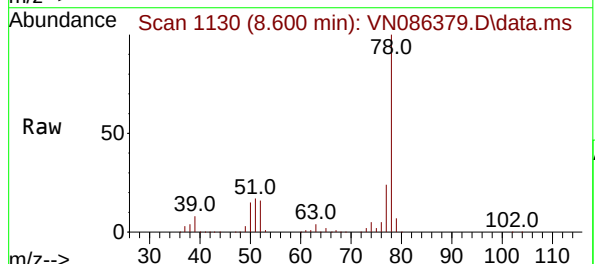
Manual Integrations
APPROVED

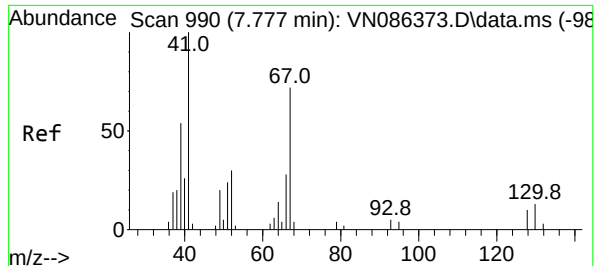
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 103.912 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 78 Resp: 1017889
Ion Ratio Lower Upper
78 100
77 24.1 20.8 31.2
51 17.2 14.0 21.0





#35

Methacrylonitrile

Concen: 103.381 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 17628

Ion Ratio Lower Upper

41 100

39 53.5 27.0 80.8

67 73.9 35.8 107.3

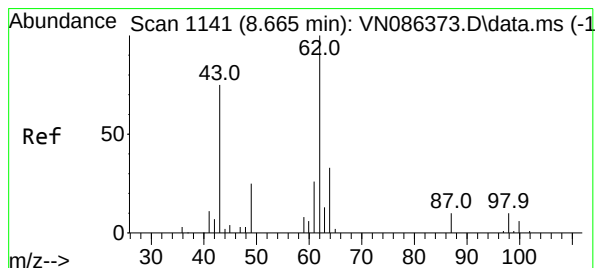
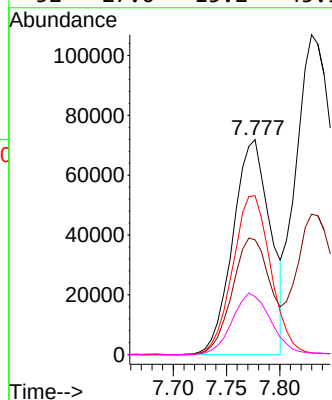
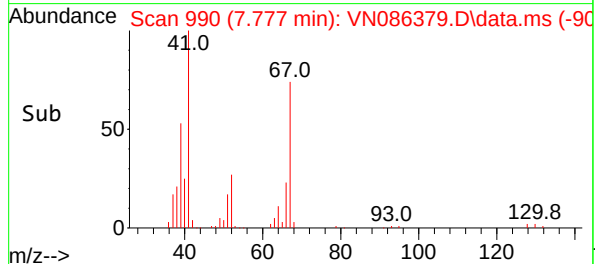
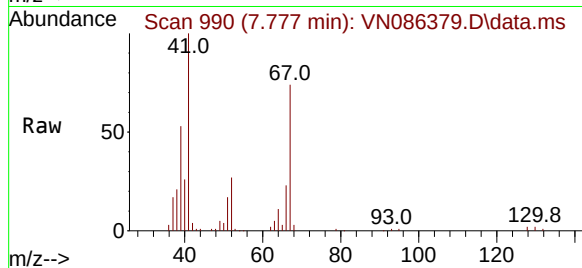
52 27.0 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 103.769 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN086379.D

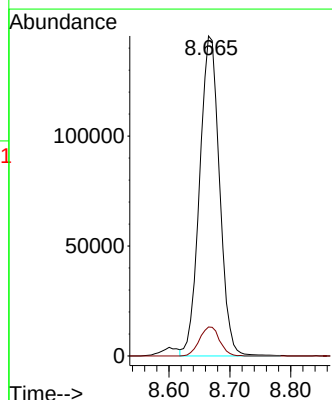
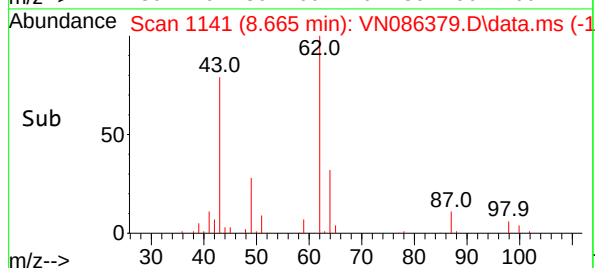
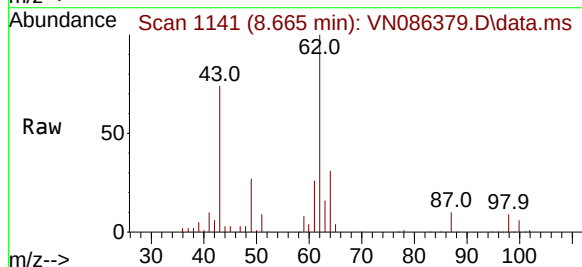
Acq: 23 Apr 2025 12:37

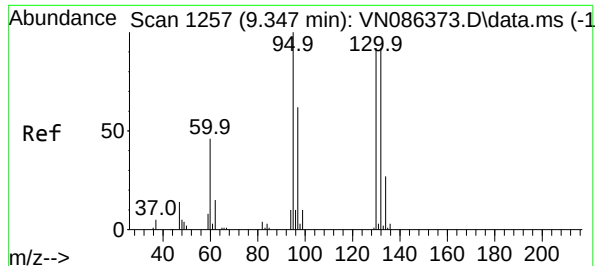
Tgt Ion: 62 Resp: 330021

Ion Ratio Lower Upper

62 100

98 9.2 7.6 11.4





#37

Trichloroethene

Concen: 104.441 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:130 Resp: 25611

Ion Ratio Lower Upper

130 100

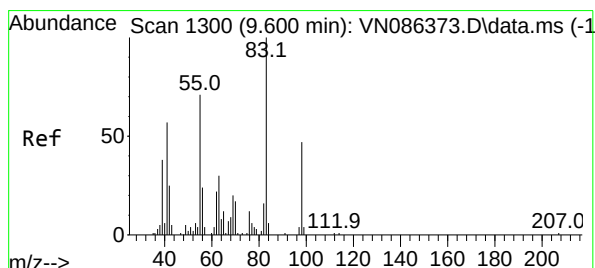
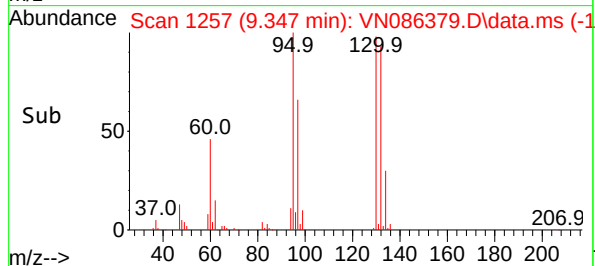
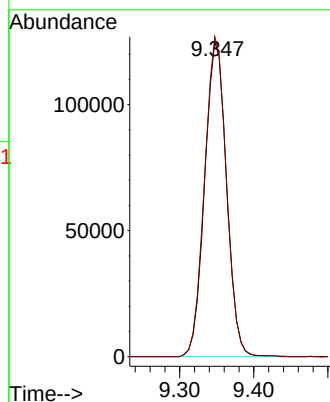
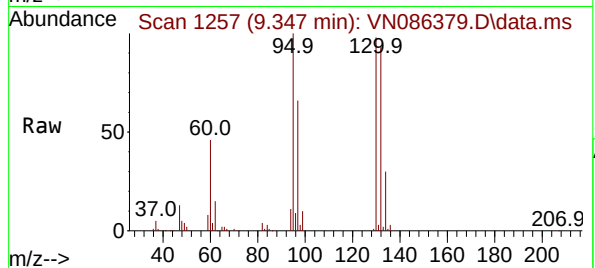
95 101.7 86.6 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#38

Methylcyclohexane

Concen: 105.322 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

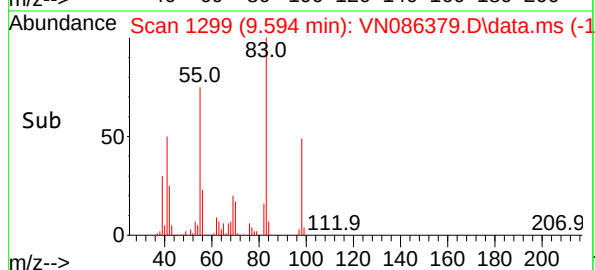
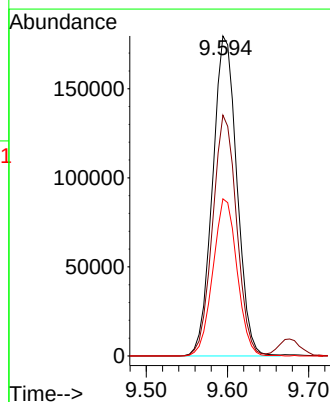
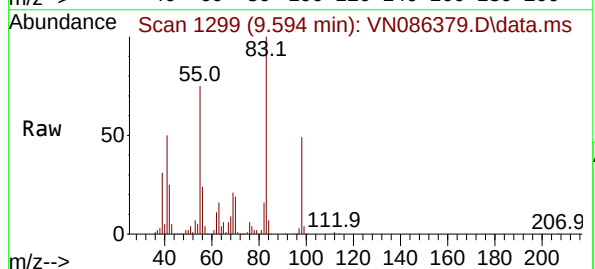
Tgt Ion: 83 Resp: 374627

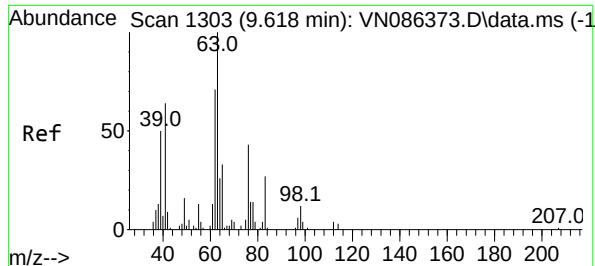
Ion Ratio Lower Upper

83 100

55 74.4 37.3 111.9

98 48.7 23.8 71.5





#39

1,2-Dichloropropane

Concen: 102.652 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 24841

Ion Ratio Lower Upper

63 100

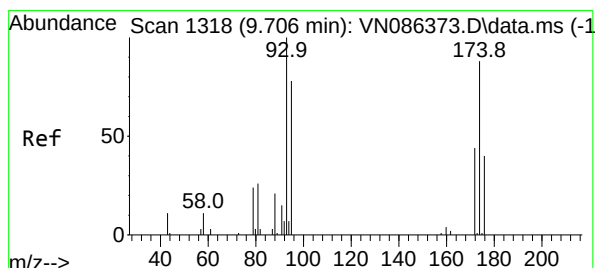
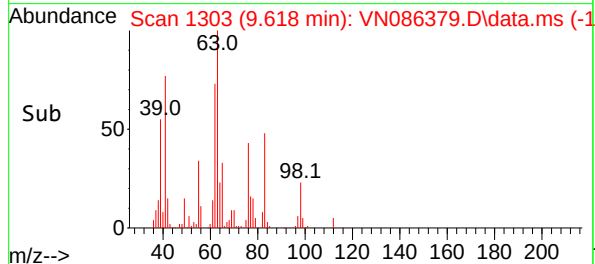
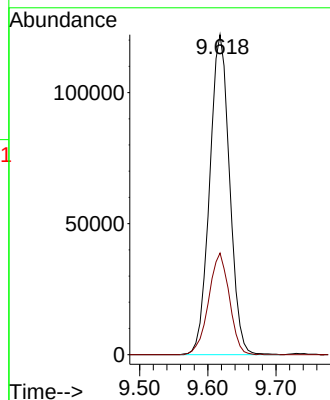
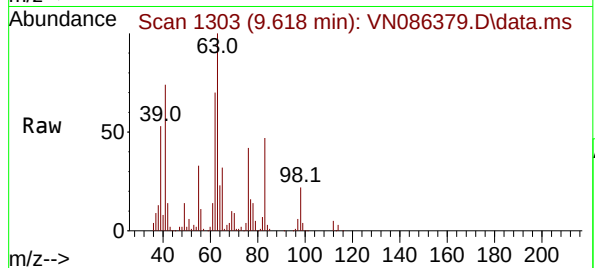
65 31.7 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 102.469 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

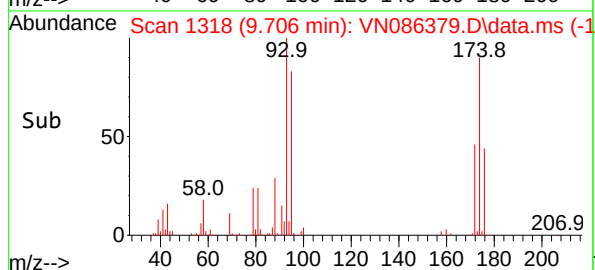
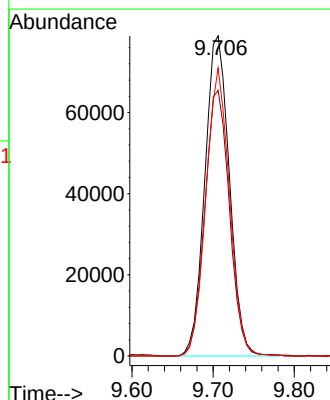
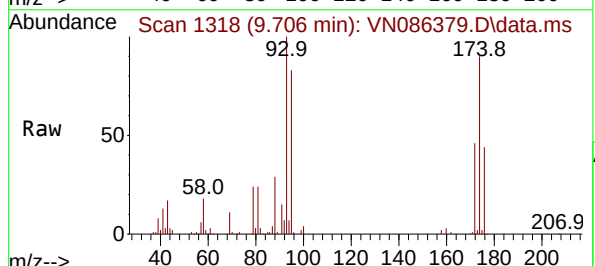
Tgt Ion: 93 Resp: 165831

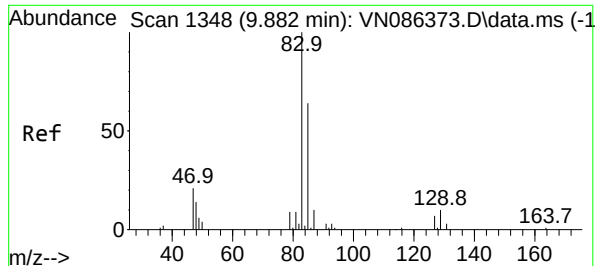
Ion Ratio Lower Upper

93 100

95 83.2 0.0 159.2

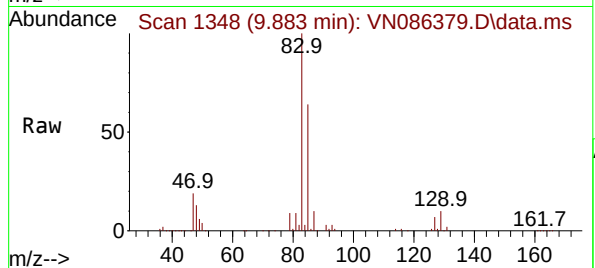
174 86.5 0.0 171.4





#41
Bromodichloromethane
Concen: 104.030 ug/l
RT: 9.883 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

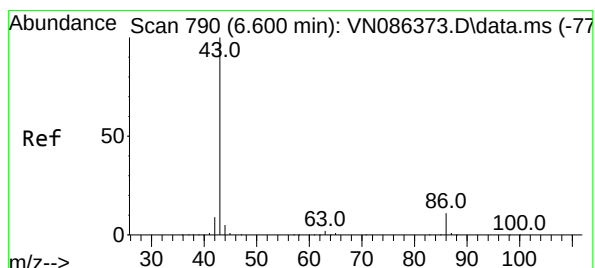
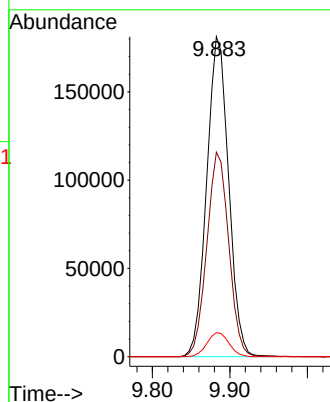
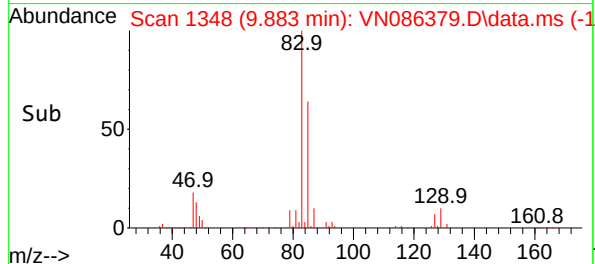
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 83 Resp: 356279
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7
127 7.5 5.9 8.9

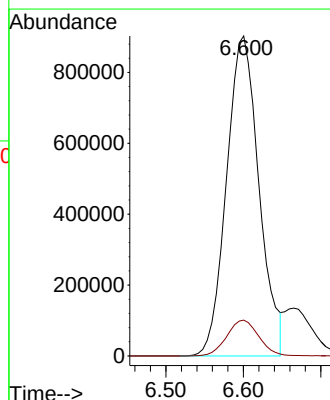
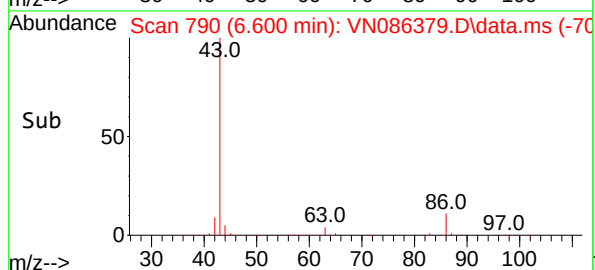
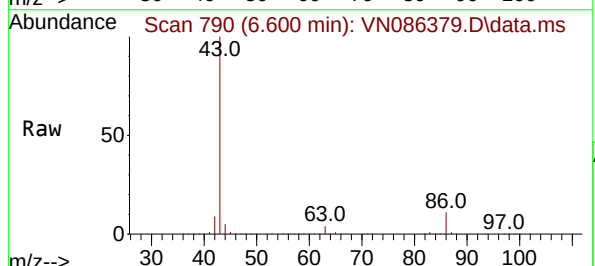
Manual Integrations
APPROVED

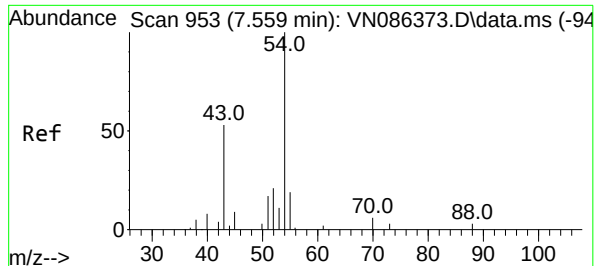
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 508.753 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 43 Resp: 2634471
Ion Ratio Lower Upper
43 100
86 11.1 8.9 13.3





#43

Ethyl Acetate

Concen: 100.306 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 296729

Ion Ratio Lower Upper

43 100

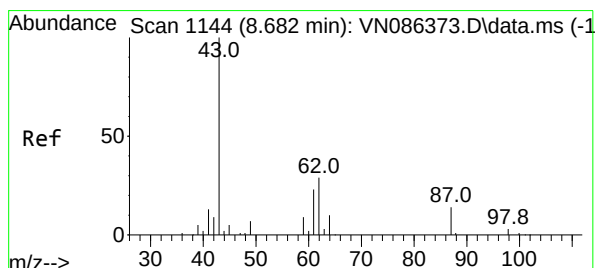
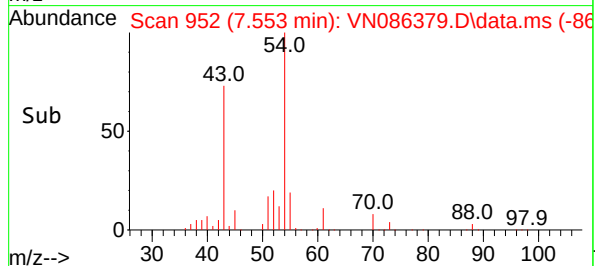
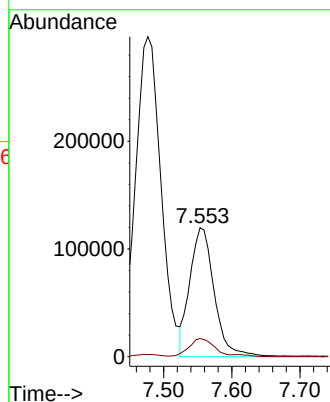
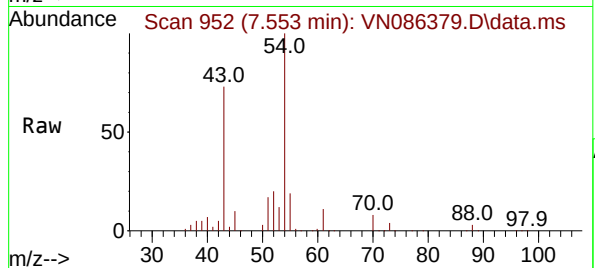
45 13.5 11.4 17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 100.309 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086379.D

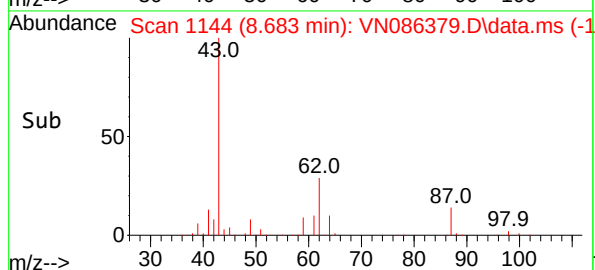
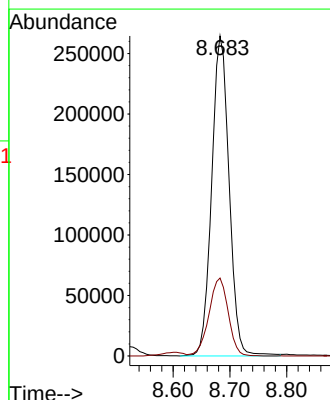
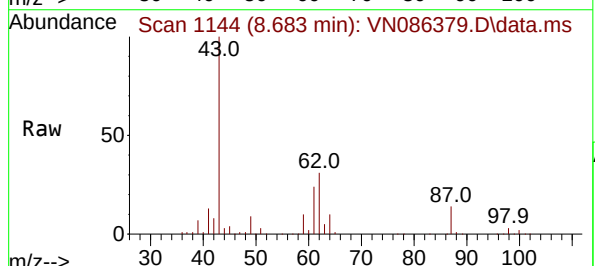
Acq: 23 Apr 2025 12:37

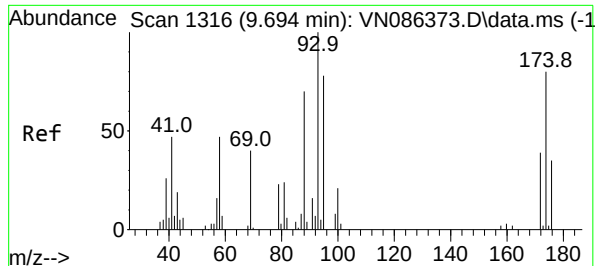
Tgt Ion: 43 Resp: 563189

Ion Ratio Lower Upper

43 100

61 26.9 21.0 31.4





#45

1,4-Dioxane

Concen: 2033.531 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 8908

Ion Ratio Lower Upper

88 100

43 27.6 24.9 37.3

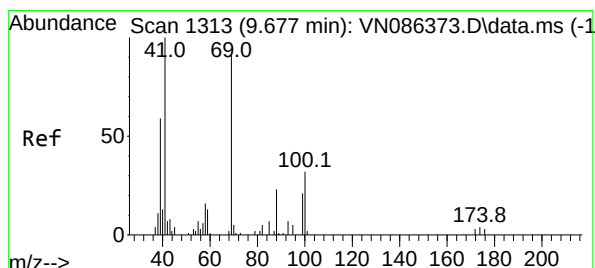
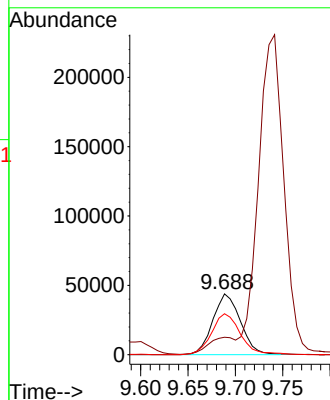
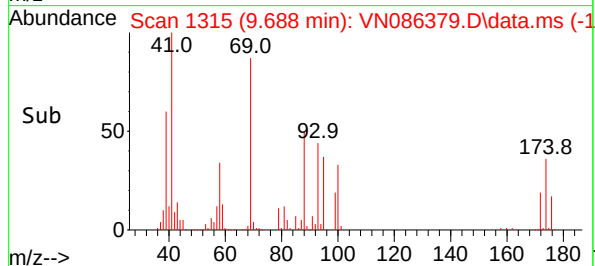
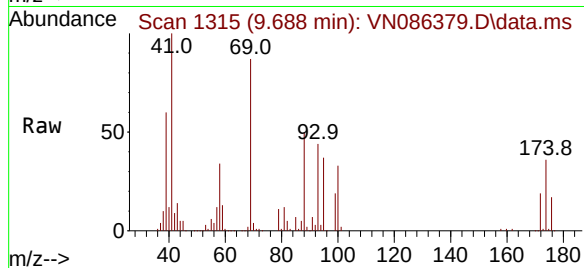
58 70.6 57.8 86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 103.033 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

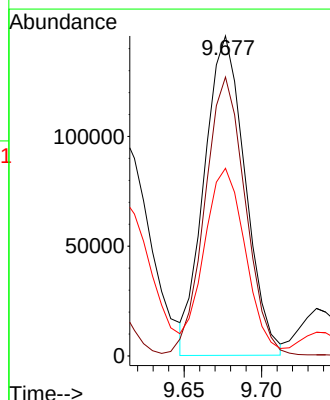
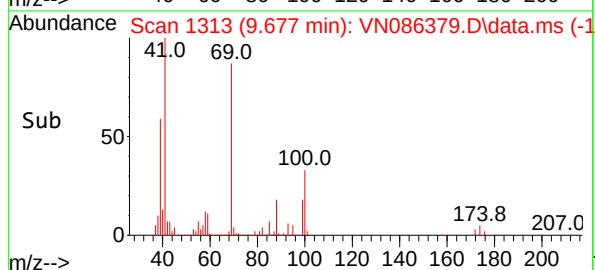
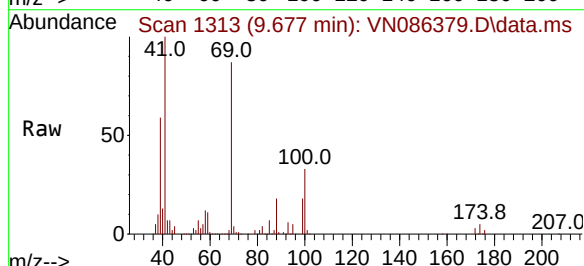
Tgt Ion: 41 Resp: 266838

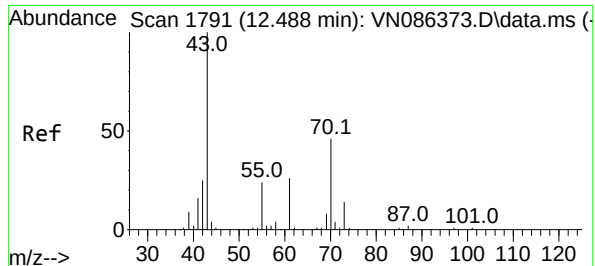
Ion Ratio Lower Upper

41 100

69 88.6 44.1 132.3

39 58.5 30.0 90.1





#47

n-amy1 Acetate

Concen: 105.493 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 504820

Ion Ratio Lower Upper

43 100

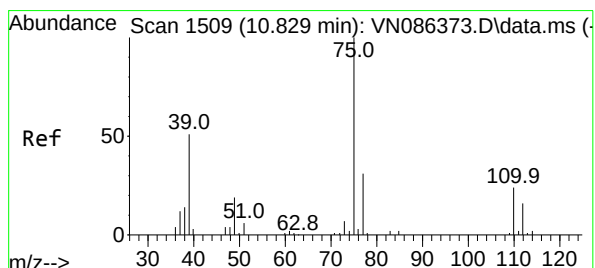
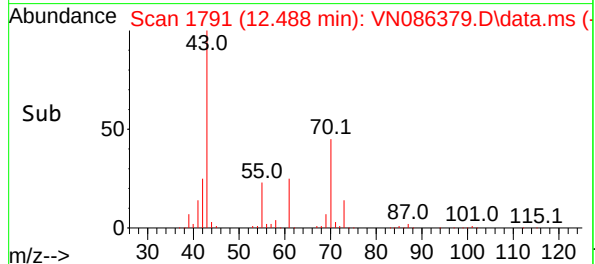
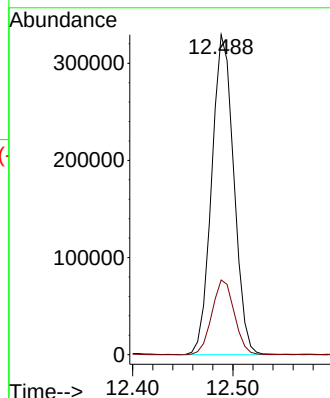
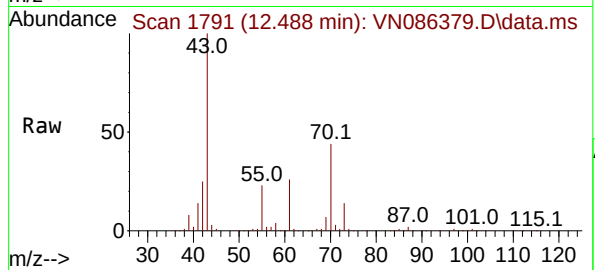
55 23.7 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#48

t-1,3-Dichloropropene

Concen: 106.279 ug/l

RT: 10.830 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN086379.D

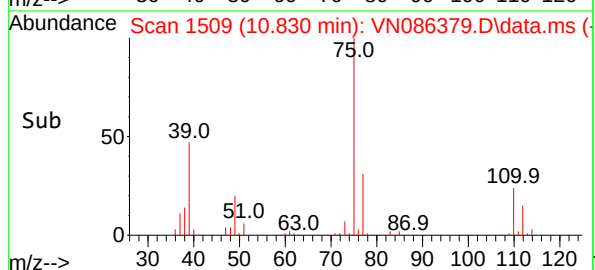
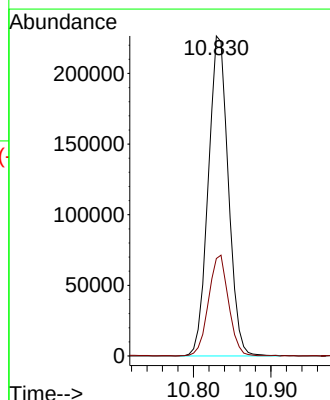
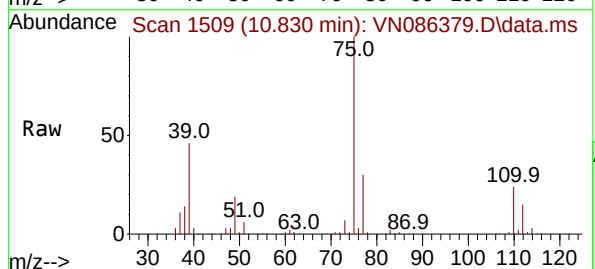
Acq: 23 Apr 2025 12:37

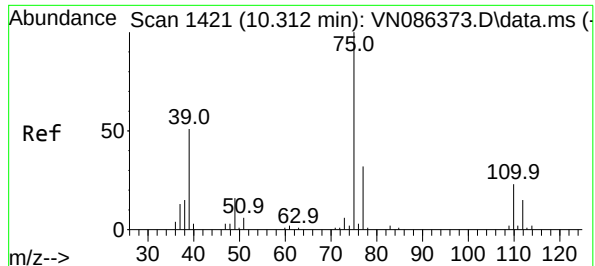
Tgt Ion: 75 Resp: 406922

Ion Ratio Lower Upper

75 100

77 30.5 24.4 36.6





#49

cis-1,3-Dichloropropene

Concen: 105.570 ug/l

RT: 10.306 min Scan# 1421

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 42625

Ion Ratio Lower Upper

75 100

77 32.1 25.6 38.4

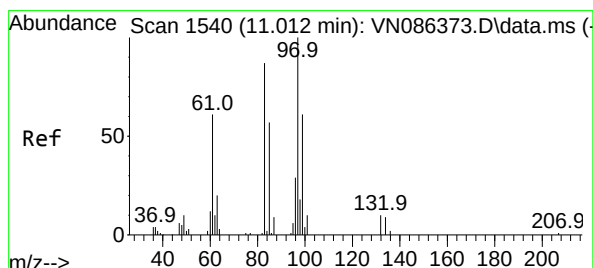
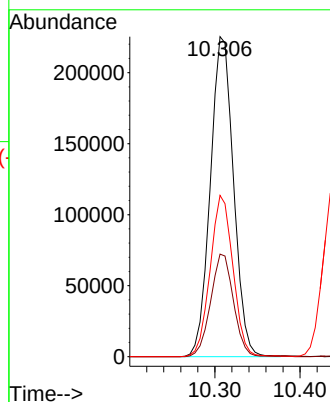
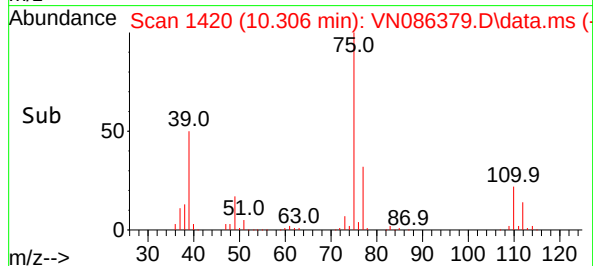
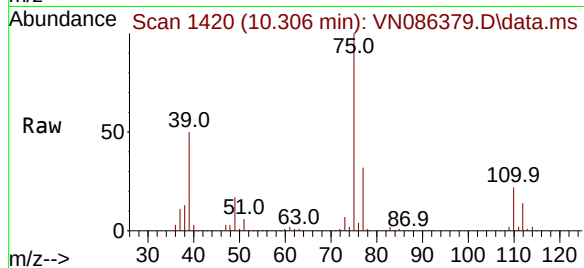
39 50.4 40.6 60.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#50

1,1,2-Trichloroethane

Concen: 104.198 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Tgt Ion: 97 Resp: 235538

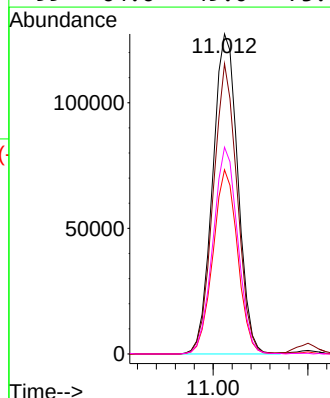
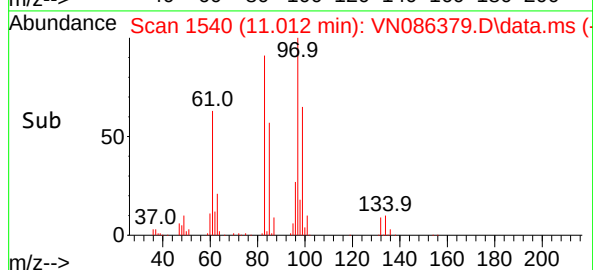
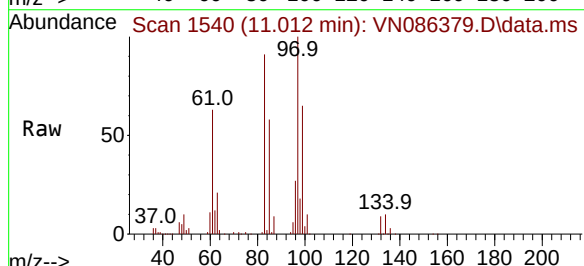
Ion Ratio Lower Upper

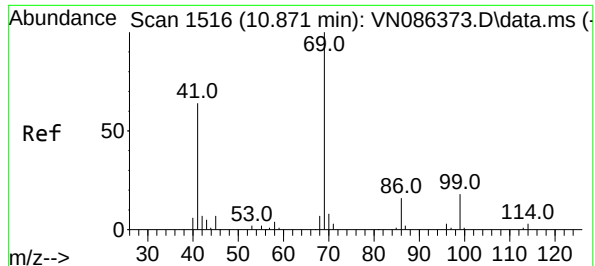
97 100

83 90.7 69.3 103.9

85 57.5 45.5 68.3

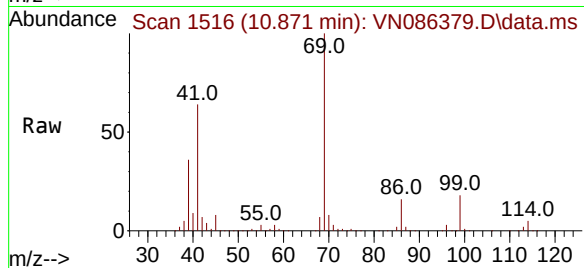
99 64.6 49.0 73.6





#51
Ethyl methacrylate
Concen: 106.266 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

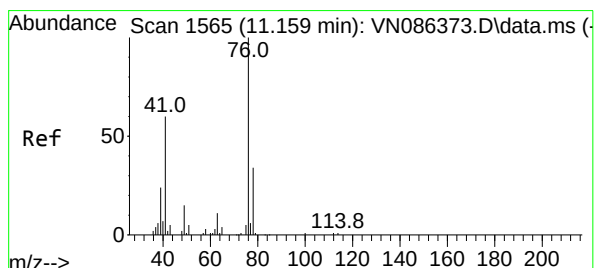
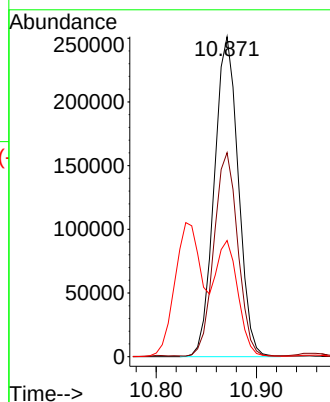
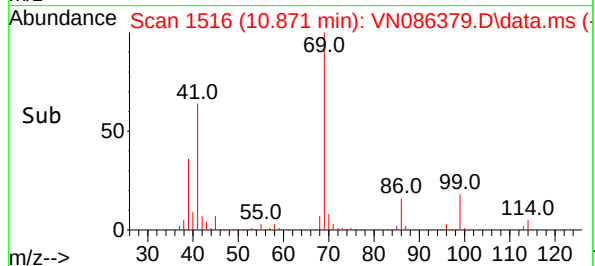
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 69 Resp: 418356
Ion Ratio Lower Upper
69 100
41 63.6 32.3 96.8
39 36.1 19.1 57.1

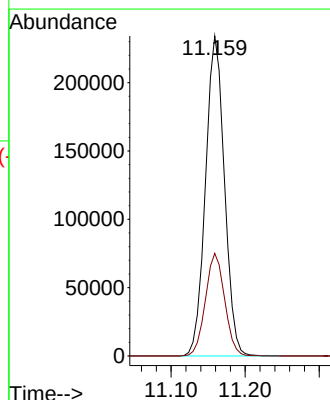
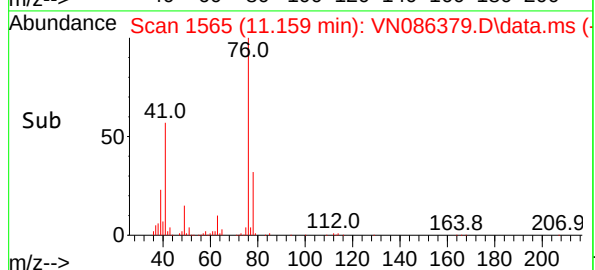
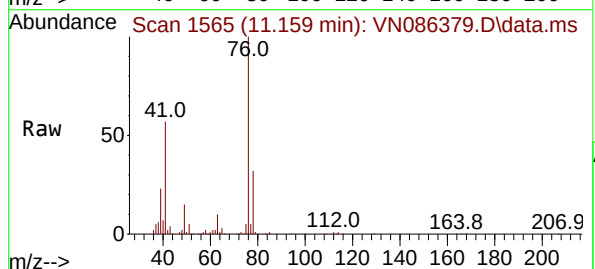
Manual Integrations
APPROVED

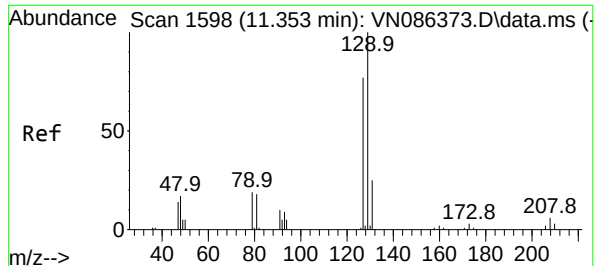
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 104.040 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

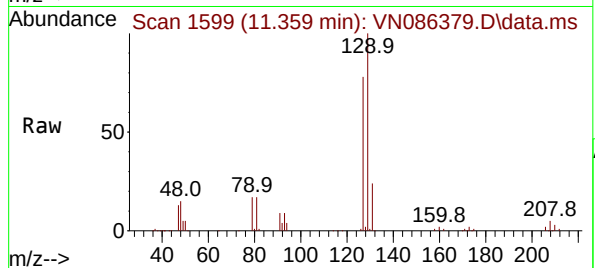
Tgt Ion: 76 Resp: 415656
Ion Ratio Lower Upper
76 100
78 32.6 0.0 65.6





#53
Dibromochloromethane
Concen: 105.065 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

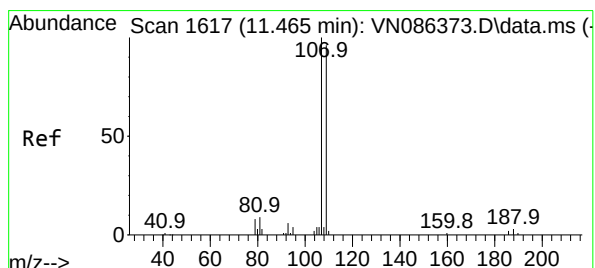
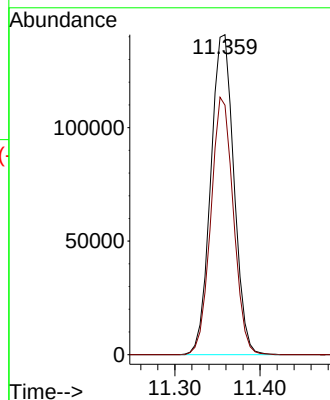
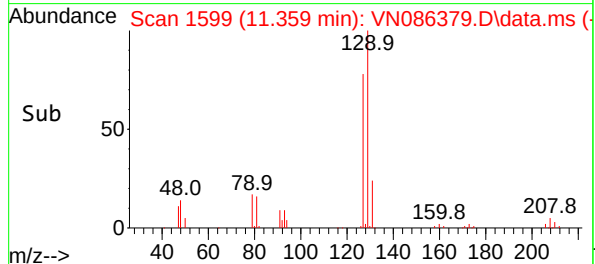
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



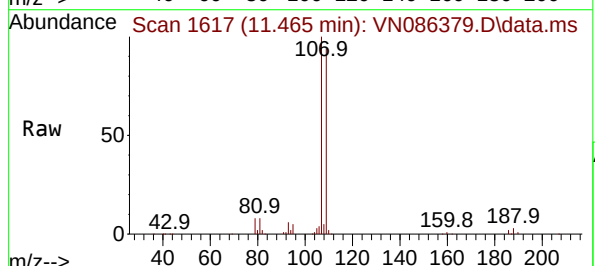
Tgt Ion:129 Resp: 26668
Ion Ratio Lower Upper
129 100
127 78.0 38.8 116.3

Manual Integrations
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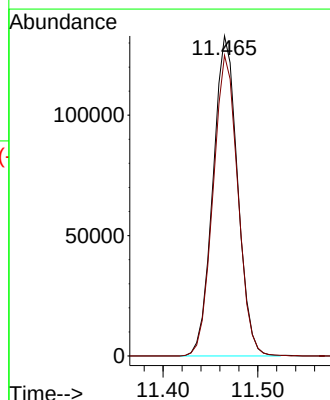
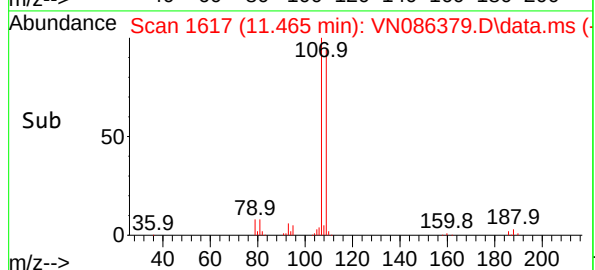
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

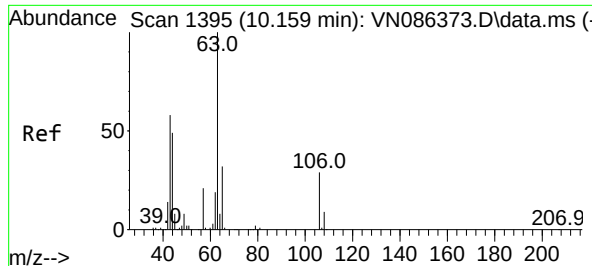


#54
1,2-Dibromoethane
Concen: 104.177 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37



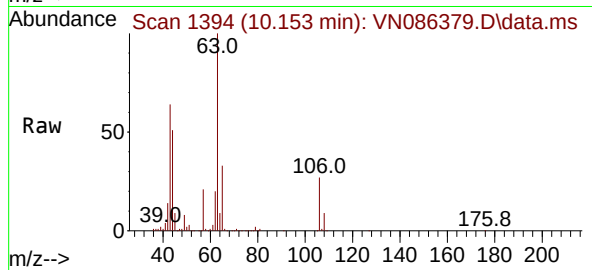
Tgt Ion:107 Resp: 239438
Ion Ratio Lower Upper
107 100
109 94.7 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 516.516 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

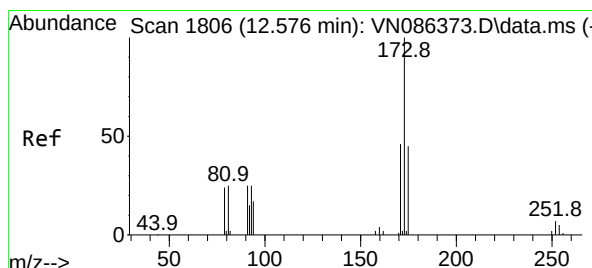
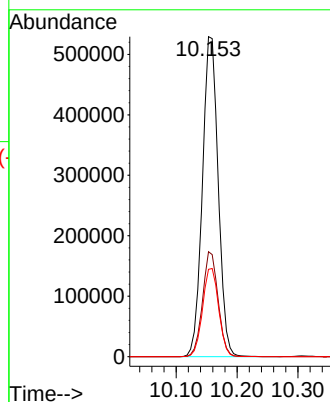
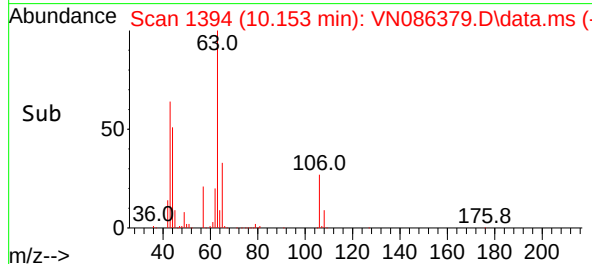
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 63 Resp: 956039
Ion Ratio Lower Upper
63 100
65 32.2 25.7 38.5
106 28.0 22.3 33.5

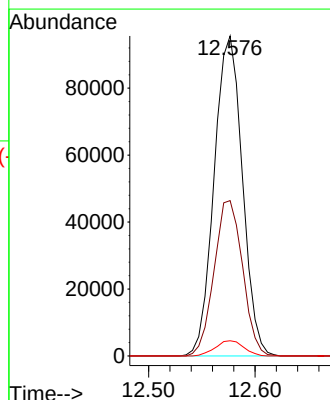
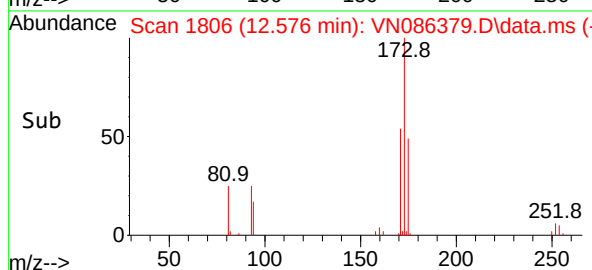
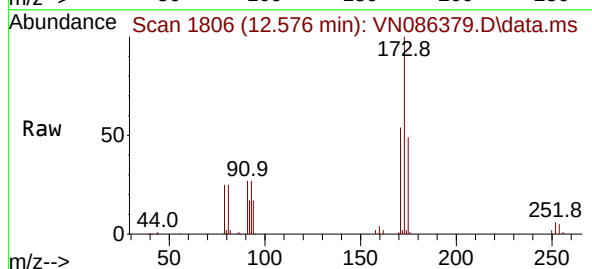
Manual Integrations
APPROVED

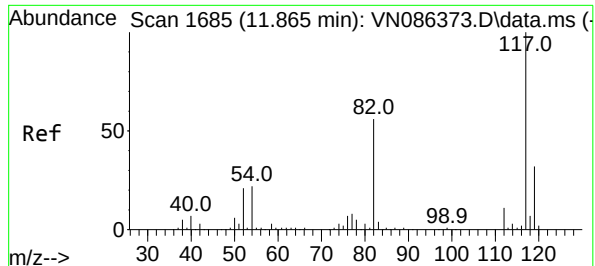
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 106.763 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

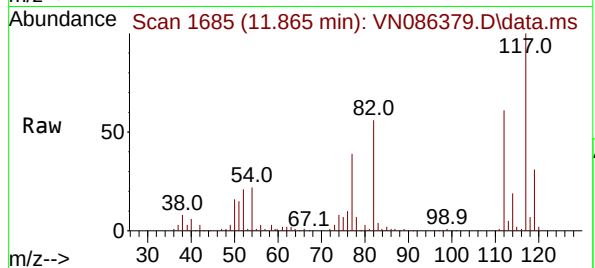
Tgt Ion:173 Resp: 175855
Ion Ratio Lower Upper
173 100
175 49.0 39.0 58.6
254 4.8 3.8 5.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

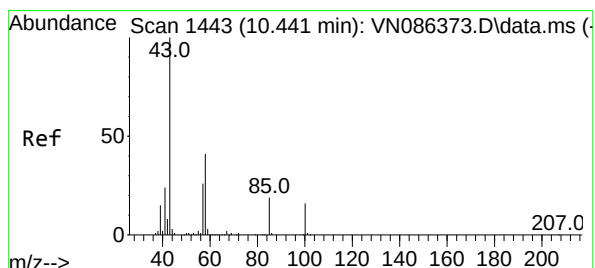
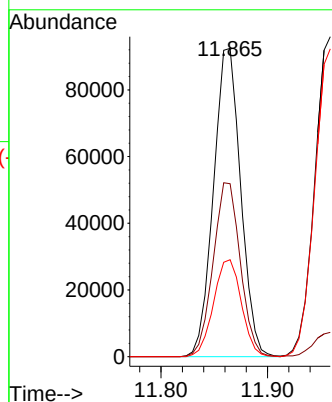
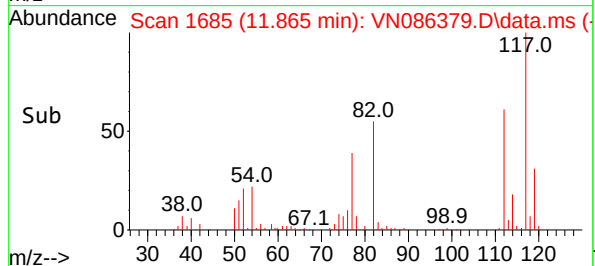
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 117 Resp: 16412
Ion Ratio Lower Upper
117 100
82 56.3 45.5 68.3
119 32.1 25.9 38.9

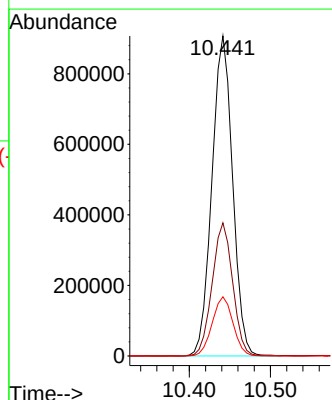
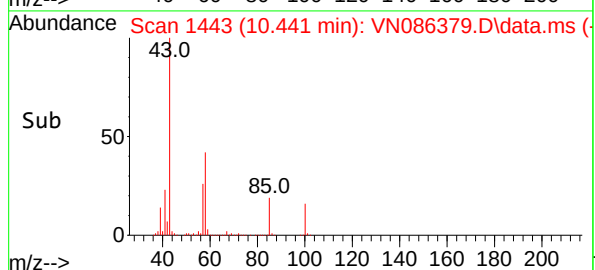
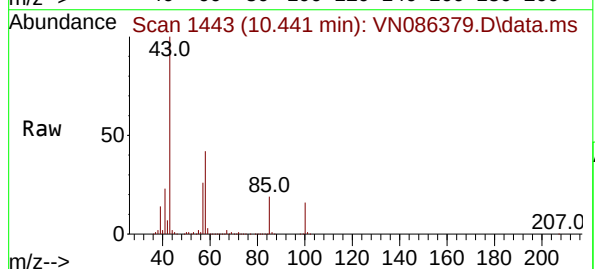
Manual Integrations
APPROVED

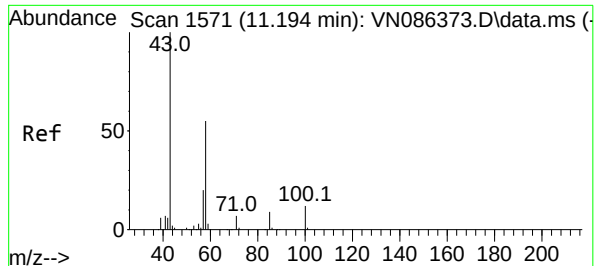
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 505.519 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

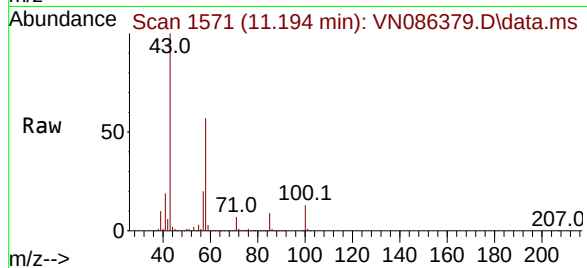
Tgt Ion: 43 Resp: 1605575
Ion Ratio Lower Upper
43 100
58 41.3 33.0 49.6
85 18.6 14.9 22.3





#59
2-Hexanone
Concen: 507.067 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

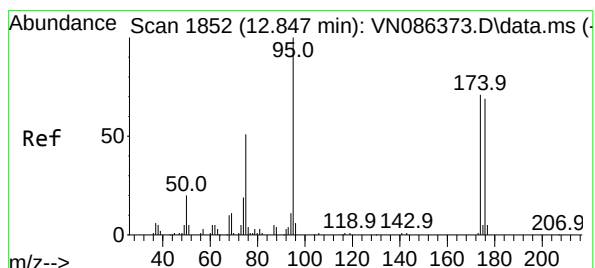
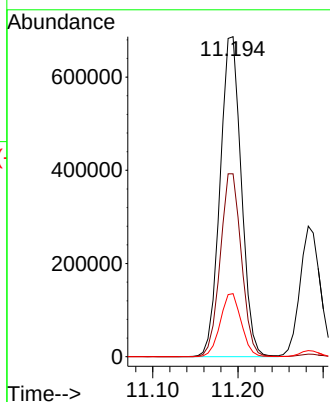
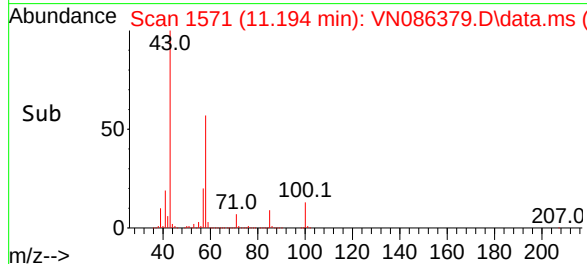
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 118681
Ion Ratio Lower Upper
43 100
58 57.1 45.0 67.6
57 19.6 15.5 23.3

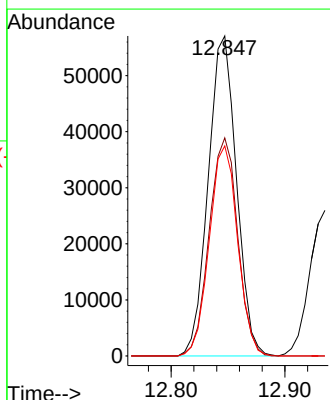
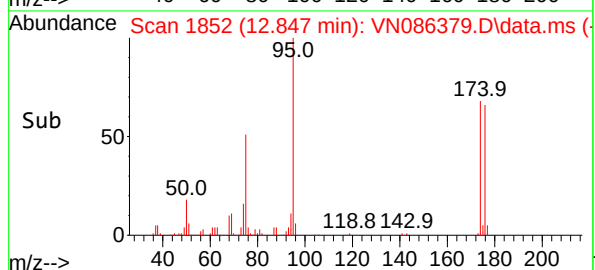
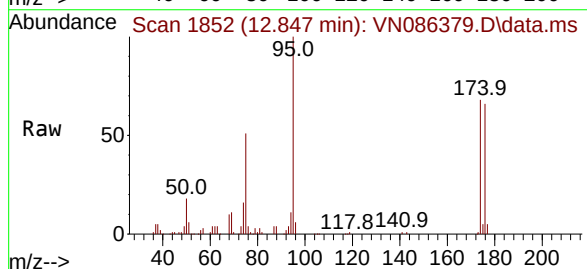
Manual Integrations
APPROVED

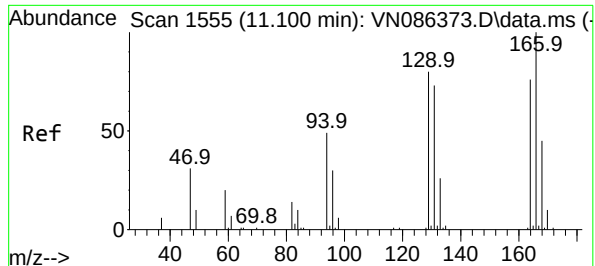
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#60
4-Bromofluorobenzene
Concen: 30.592 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

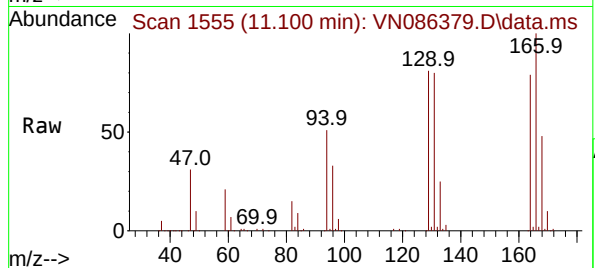
Tgt Ion: 95 Resp: 98684
Ion Ratio Lower Upper
95 100
174 68.8 56.6 84.8
176 65.7 53.3 79.9





#61
Tetrachloroethene
Concen: 102.288 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

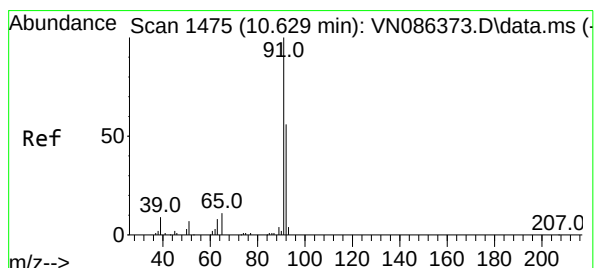
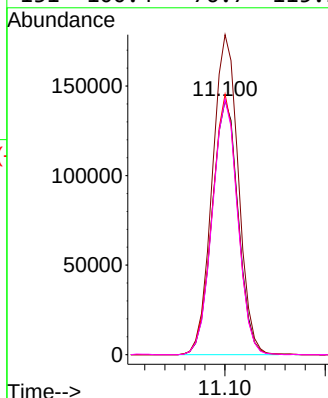
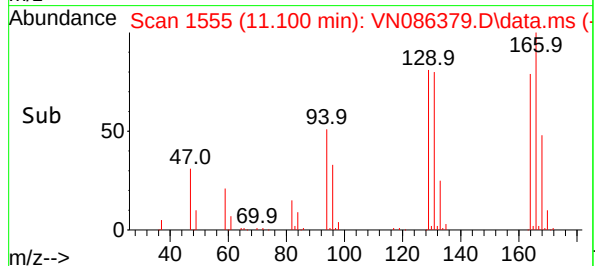
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



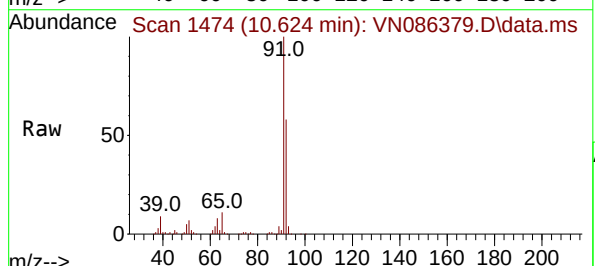
Tgt Ion:164 Resp: 256050
Ion Ratio Lower Upper
164 100
166 125.9 105.0 157.4
129 102.5 83.9 125.9
131 100.4 76.7 115.1

Manual Integrations
APPROVED

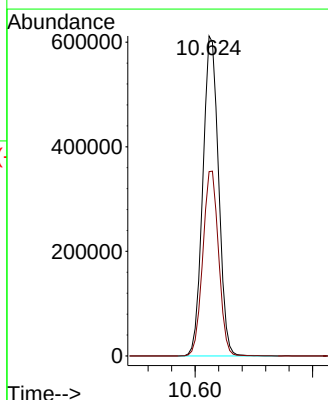
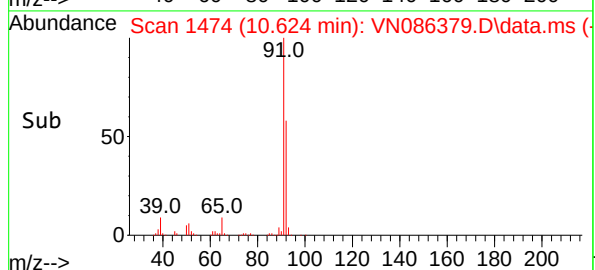
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

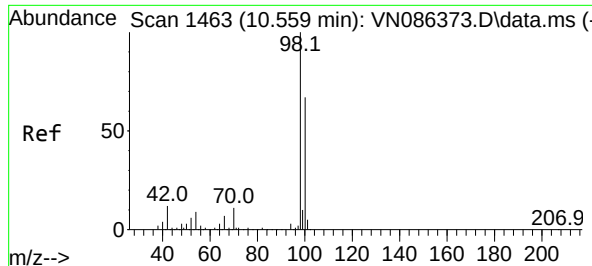


#62
Toluene
Concen: 103.158 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37



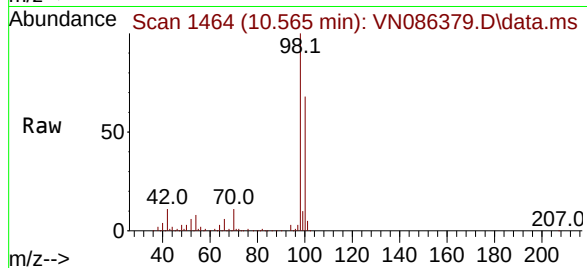
Tgt Ion: 91 Resp: 1133294
Ion Ratio Lower Upper
91 100
92 58.1 45.7 68.5





#63
Toluene-d8
Concen: 29.745 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

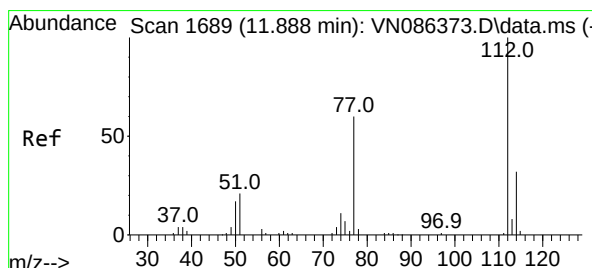
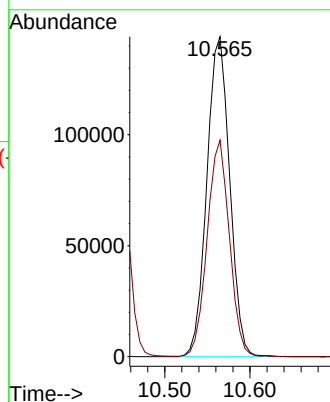
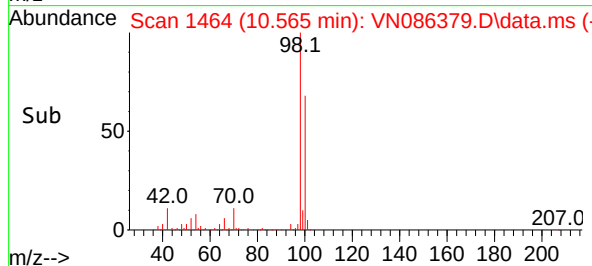
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 98 Resp: 268570
Ion Ratio Lower Upper
98 100
100 65.9 53.1 79.7

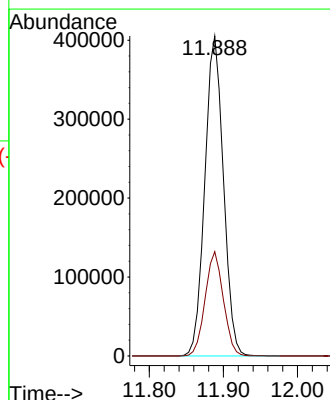
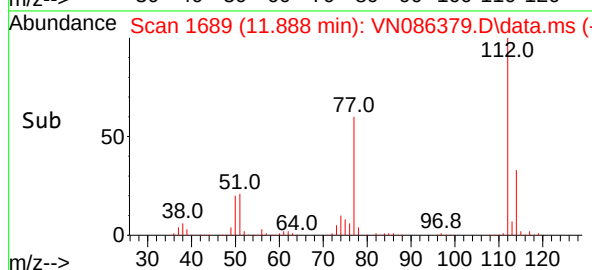
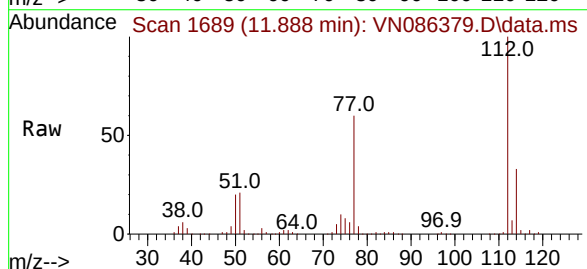
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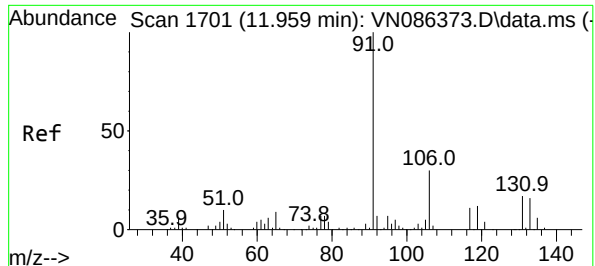
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 103.170 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:112 Resp: 706237
Ion Ratio Lower Upper
112 100
114 32.6 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 103.242 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:131 Resp: 236307

Ion Ratio Lower Upper

131 100

133 94.9 0.0 191.4

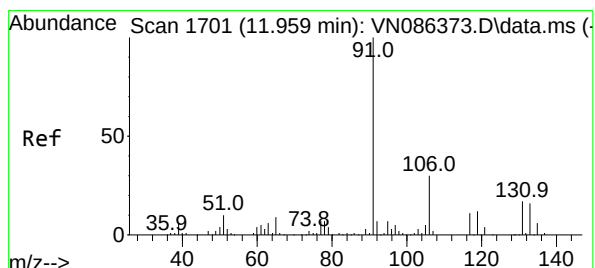
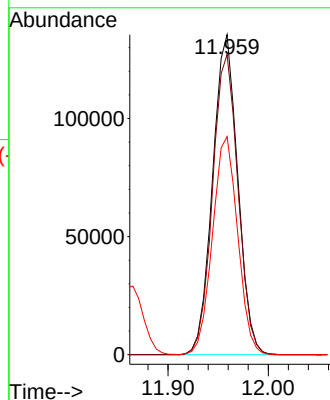
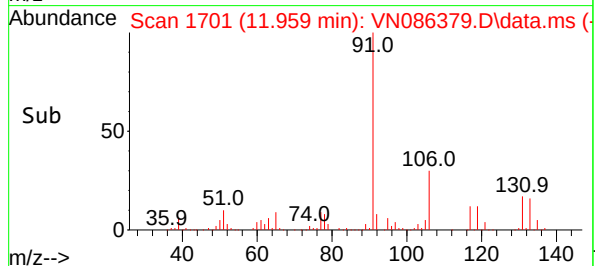
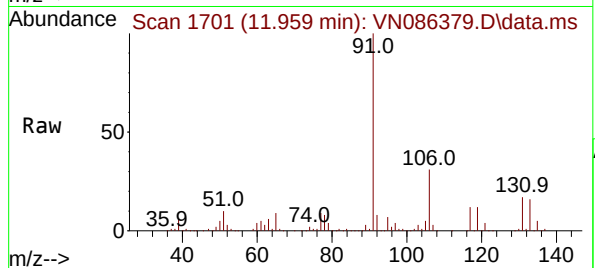
119 68.2 0.0 133.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#66

Ethyl Benzene

Concen: 104.357 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086379.D

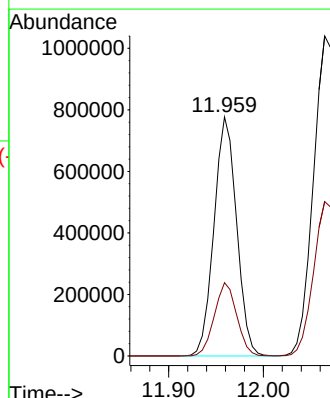
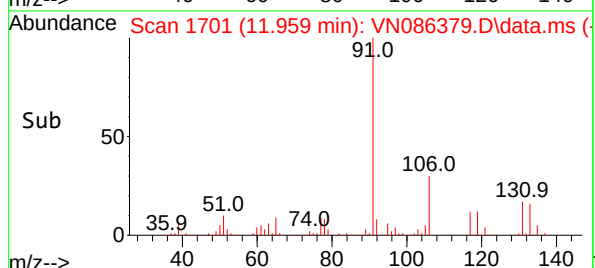
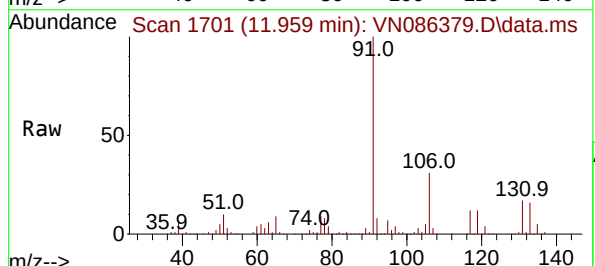
Acq: 23 Apr 2025 12:37

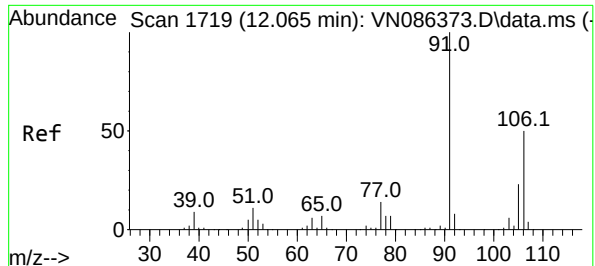
Tgt Ion: 91 Resp: 1290476

Ion Ratio Lower Upper

91 100

106 30.7 24.3 36.5





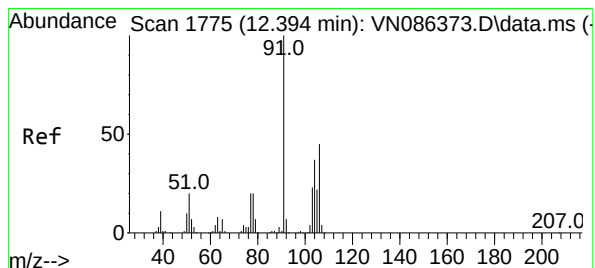
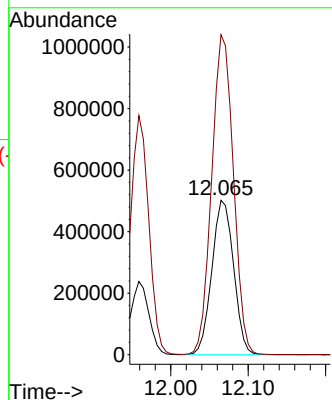
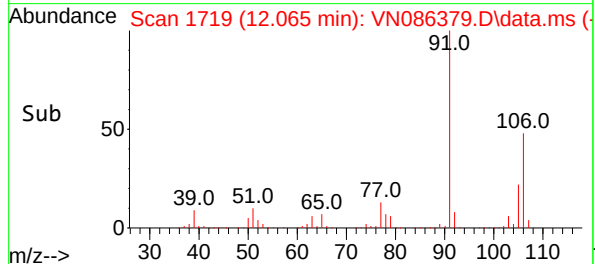
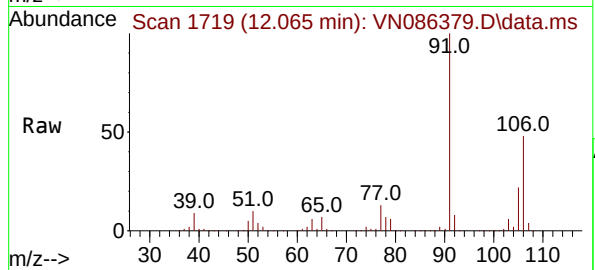
#67
m/p-Xylenes
Concen: 208.429 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:106 Resp: 977944
Ion Ratio Lower Upper
106 100
91 207.0 162.6 243.8

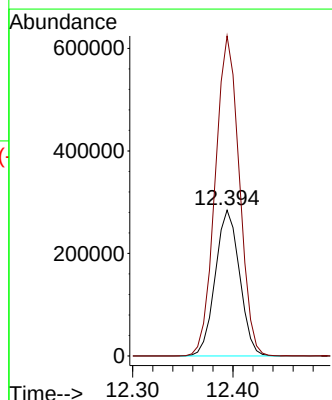
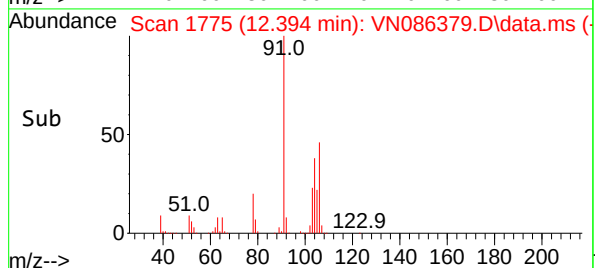
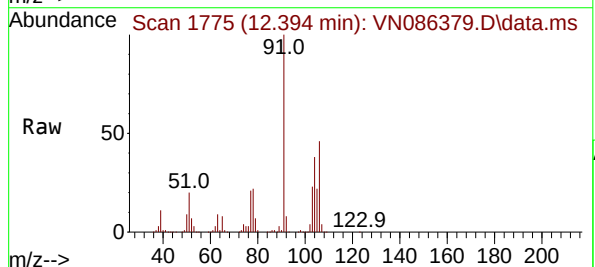
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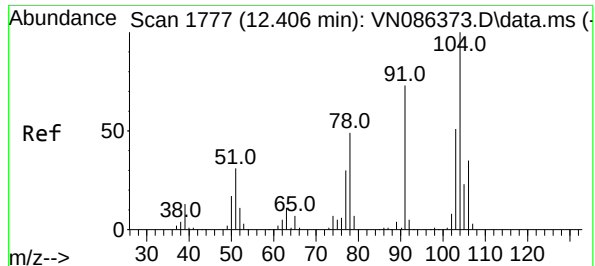
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 104.273 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:106 Resp: 479032
Ion Ratio Lower Upper
106 100
91 217.8 110.6 331.6





#69

Styrene

Concen: 107.015 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:104 Resp: 833300

Ion Ratio Lower Upper

104 100

78 50.1 40.2 60.4

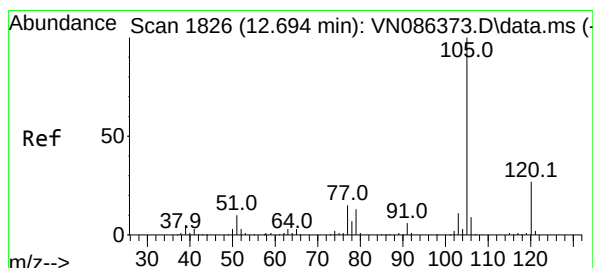
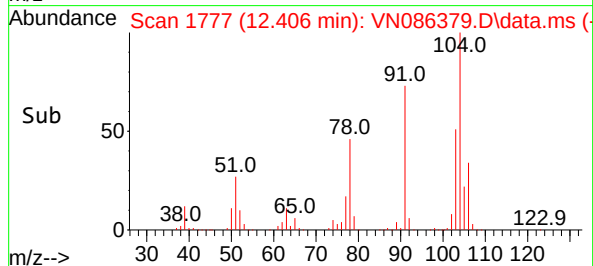
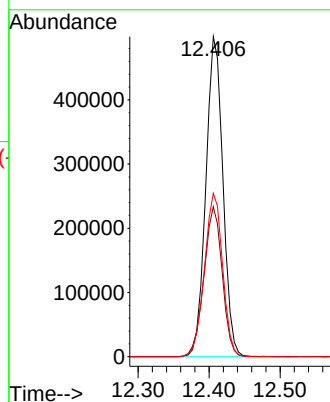
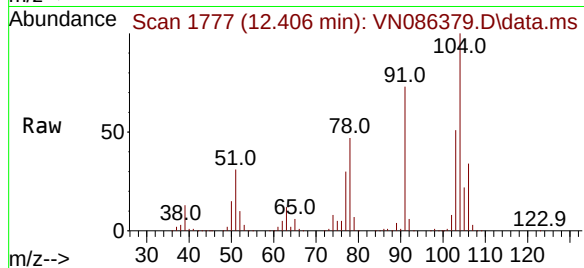
103 54.3 43.8 65.8

Manual Integrations

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Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#70

Isopropylbenzene

Concen: 105.197 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086379.D

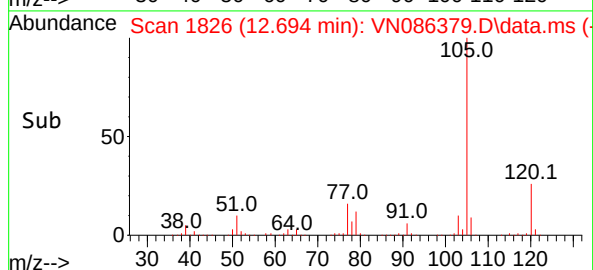
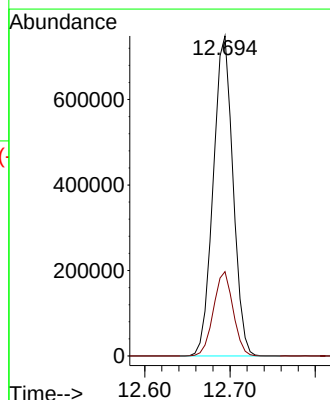
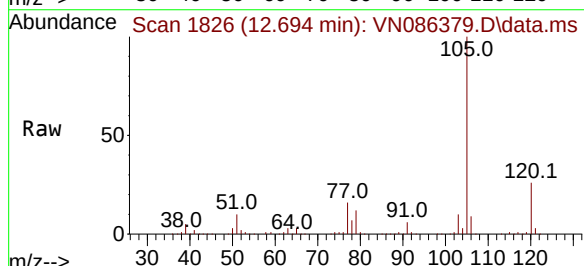
Acq: 23 Apr 2025 12:37

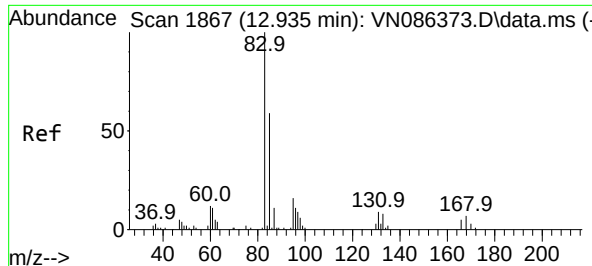
Tgt Ion:105 Resp: 1206389

Ion Ratio Lower Upper

105 100

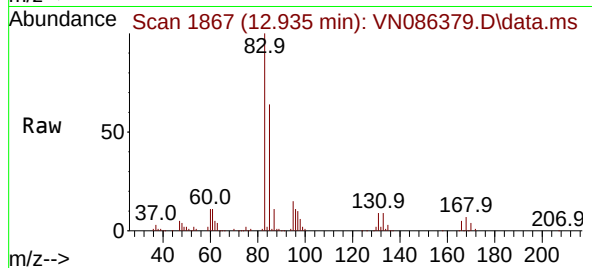
120 26.1 18.2 33.8





#71
1,1,2-Tetrachloroethane
Concen: 100.113 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

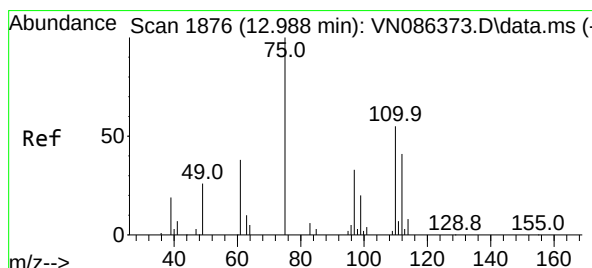
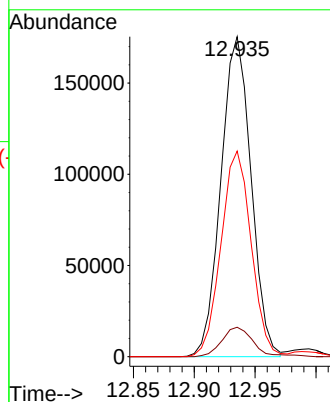
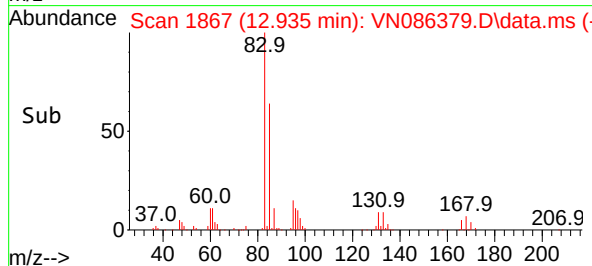
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 83 Resp: 302290
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 64.4 31.7 95.1

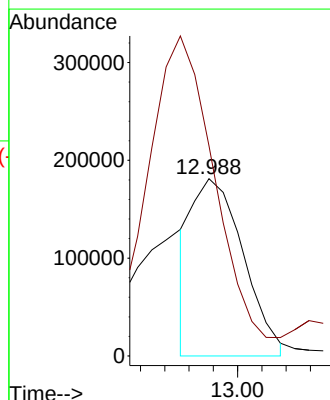
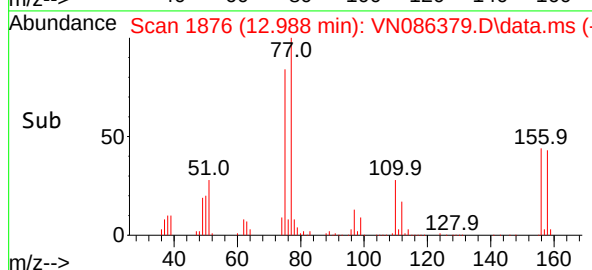
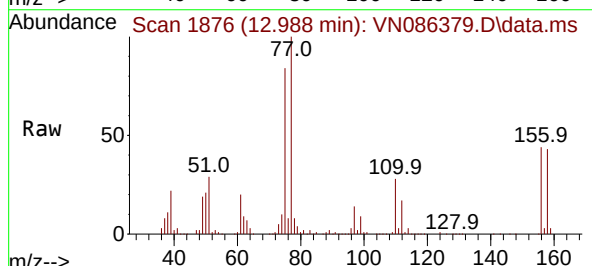
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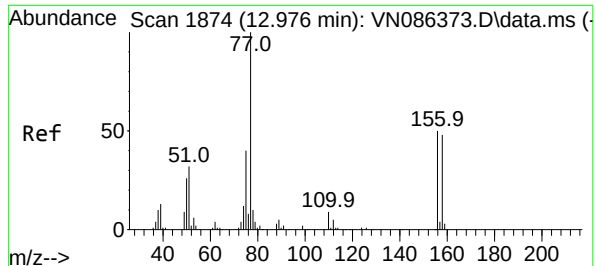
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 101.648 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 75 Resp: 265966
Ion Ratio Lower Upper
75 100
77 243.2 0.0 464.4





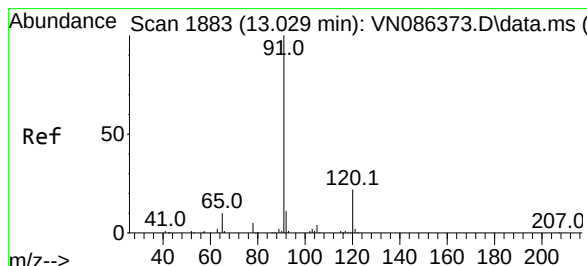
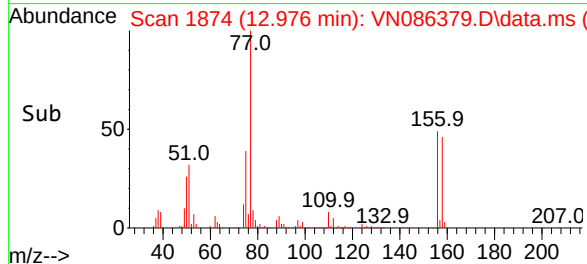
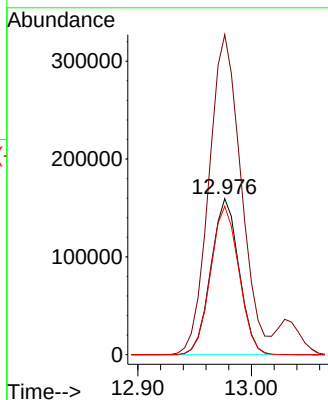
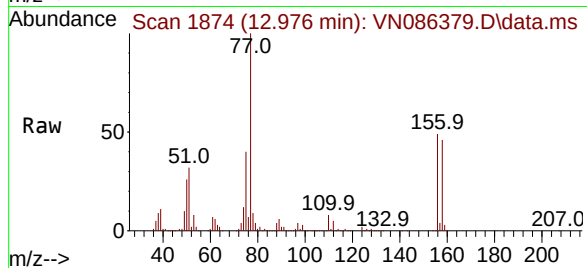
#73
Bromobenzene
Concen: 103.746 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 27352
Ion Ratio Lower Upper
156 100
77 236.5 0.0 463.4
158 96.0 0.0 191.8

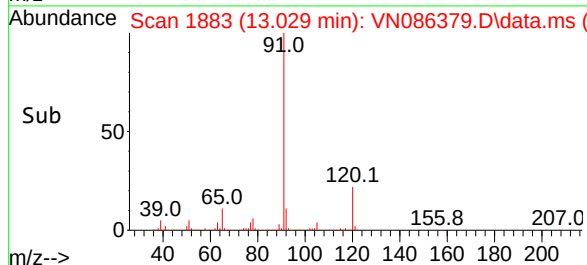
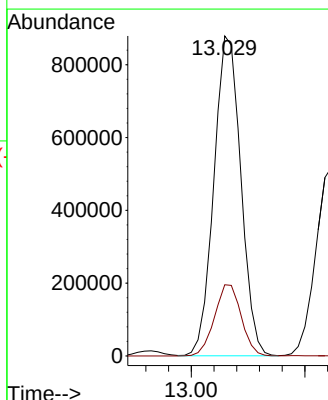
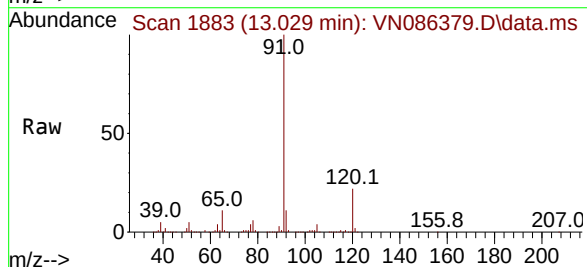
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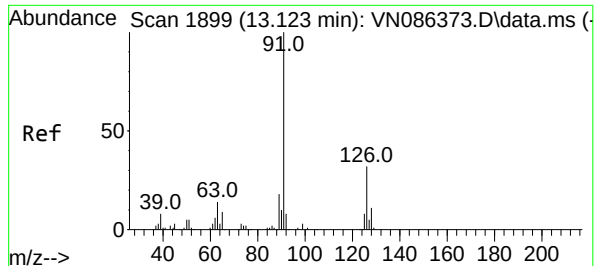
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 106.306 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion: 91 Resp: 1448668
Ion Ratio Lower Upper
91 100
120 22.1 0.0 43.8





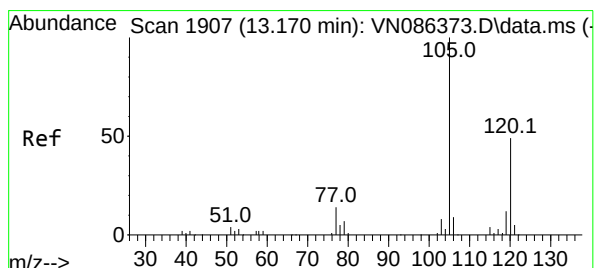
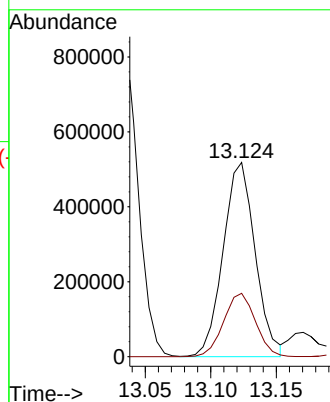
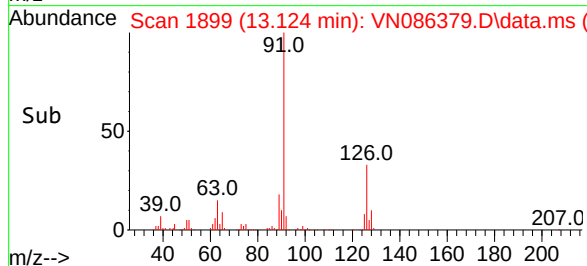
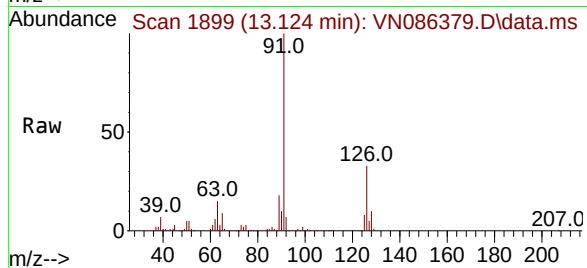
#75
2-Chlorotoluene
Concen: 103.571 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 881060
Ion Ratio Lower Upper
91 100
126 32.5 0.0 65.0

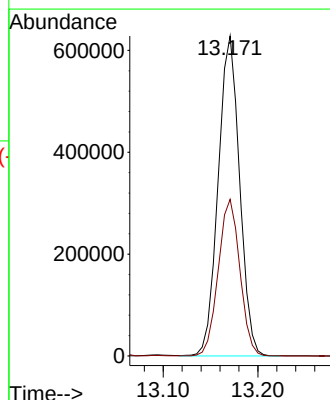
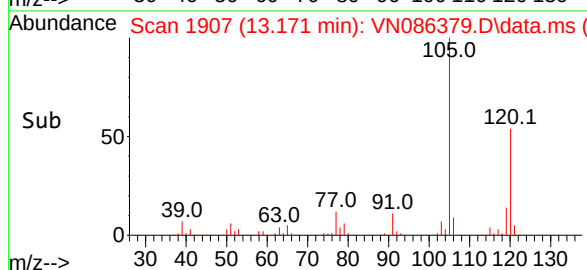
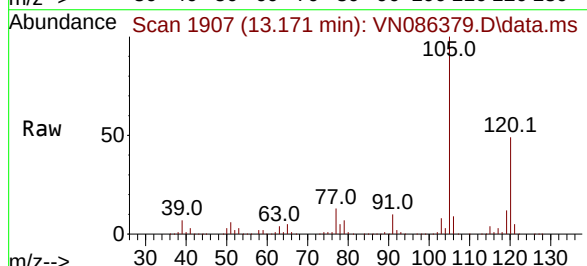
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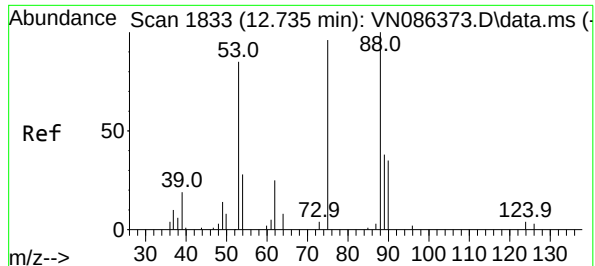
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 105.165 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:105 Resp: 989559
Ion Ratio Lower Upper
105 100
120 49.3 0.0 97.6





#77

t-1,4-Dichloro-2-butene

Concen: 107.186 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 143204

Ion Ratio Lower Upper

75 100

53 85.5 46.0 138.0

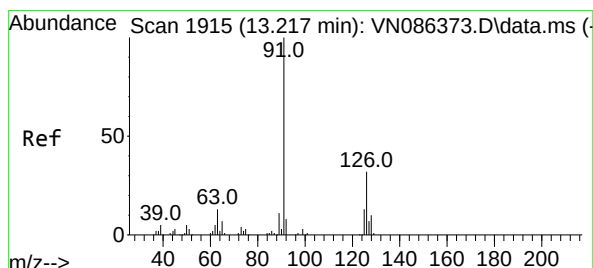
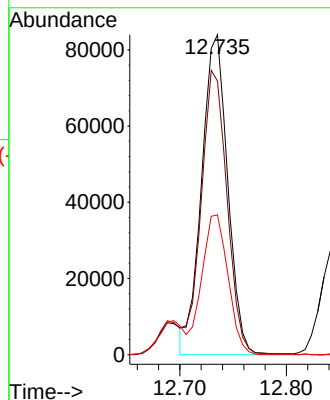
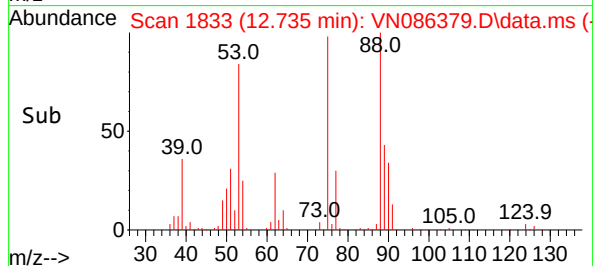
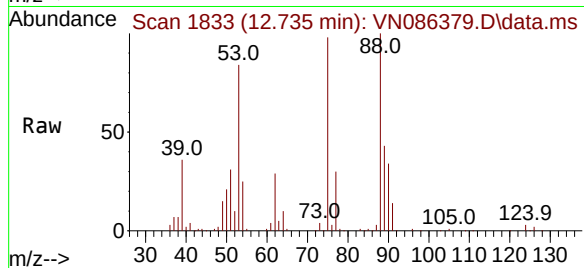
89 43.8 21.6 64.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#78

4-Chlorotoluene

Concen: 106.061 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN086379.D

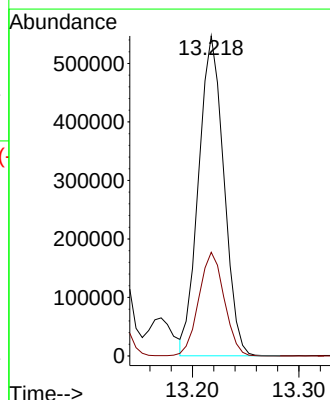
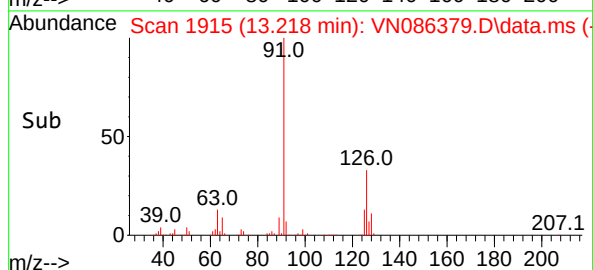
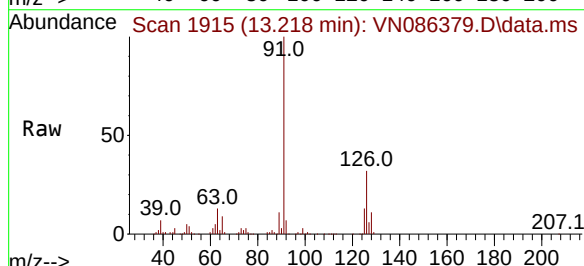
Acq: 23 Apr 2025 12:37

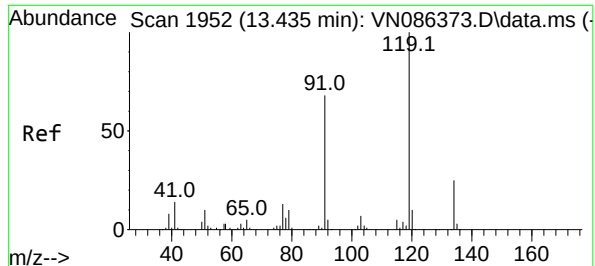
Tgt Ion: 91 Resp: 902138

Ion Ratio Lower Upper

91 100

126 32.6 0.0 65.4





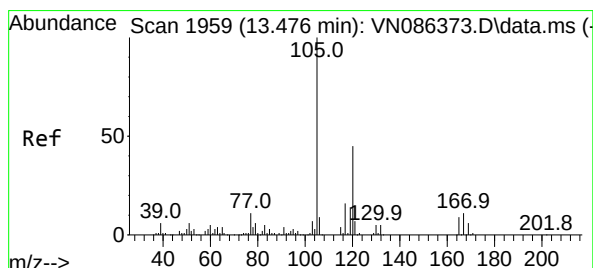
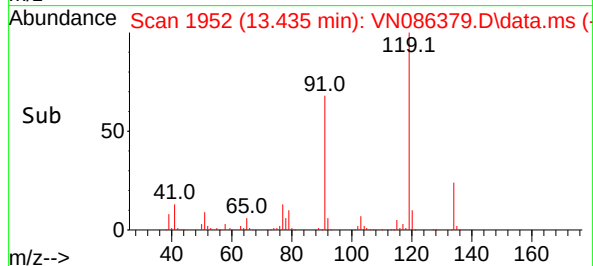
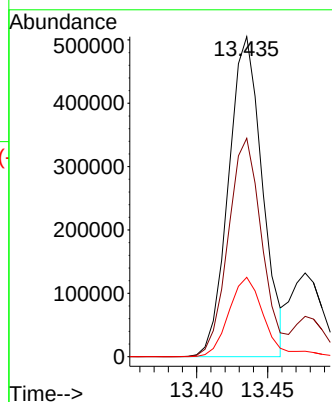
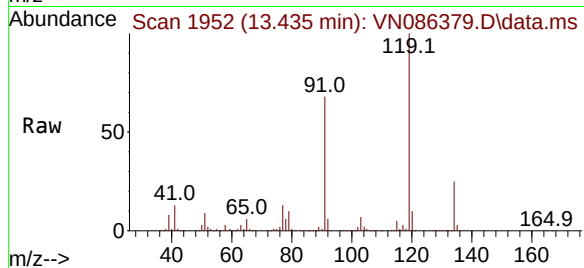
#79
tert-butylbenzene
Concen: 104.079 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 838738
Ion Ratio Lower Upper
119 100
91 68.7 0.0 137.4
134 25.1 0.0 49.2

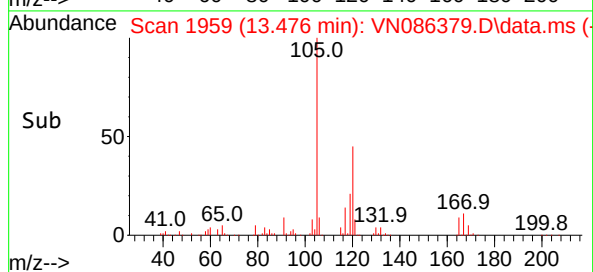
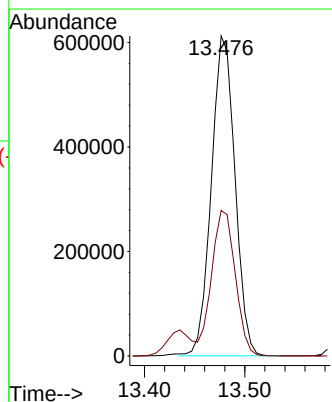
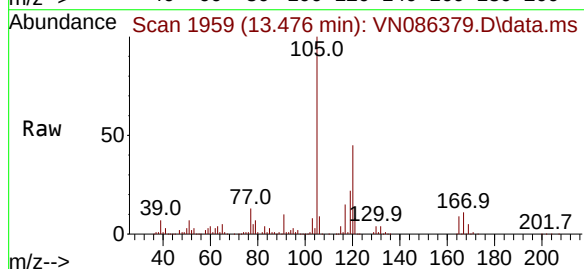
Manual Integrations
APPROVED

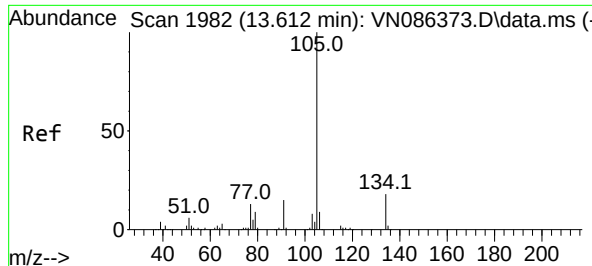
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#80
1,2,4-Trimethylbenzene
Concen: 104.137 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:105 Resp: 1000736
Ion Ratio Lower Upper
105 100
120 45.5 0.0 87.6





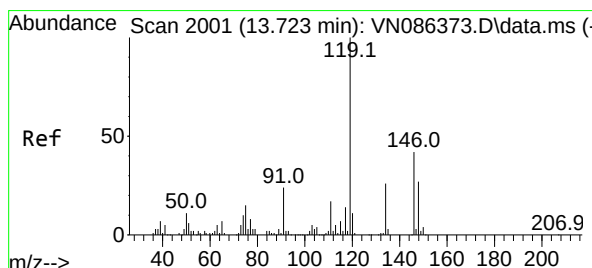
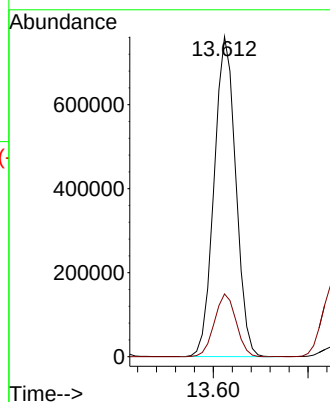
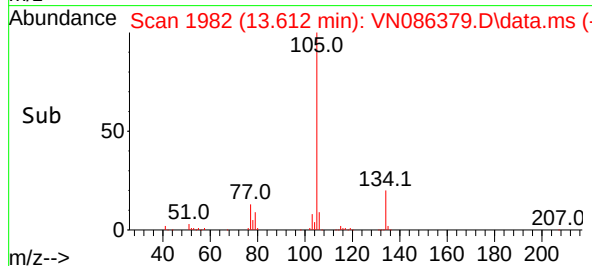
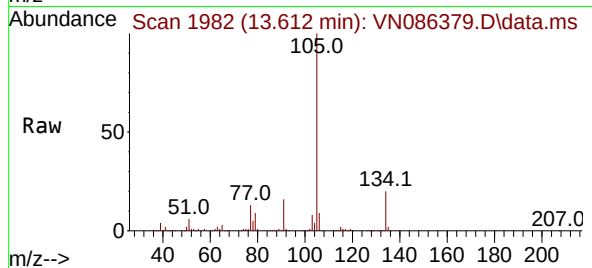
#81
sec-Butylbenzene
Concen: 105.264 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:105 Resp: 121089
Ion Ratio Lower Upper
105 100
134 19.6 0.0 38.4

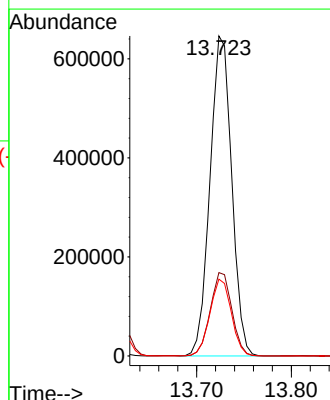
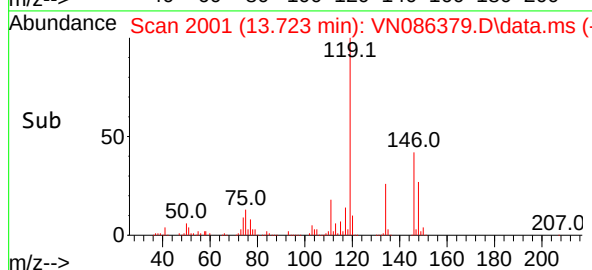
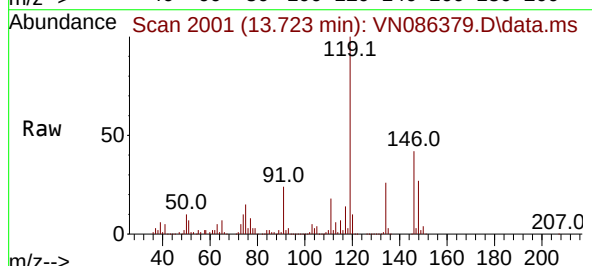
Manual Integrations
APPROVED

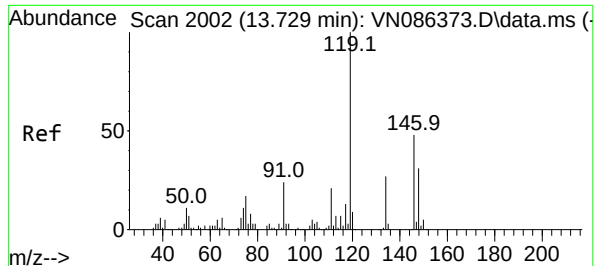
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#82
p-Isopropyltoluene
Concen: 107.051 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:119 Resp: 1030447
Ion Ratio Lower Upper
119 100
134 25.9 0.0 52.2
91 23.6 0.0 47.6





#83

1,3-Dichlorobenzene

Concen: 105.501 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 525798

Ion Ratio Lower Upper

146 100

111 43.1 20.7 62.1

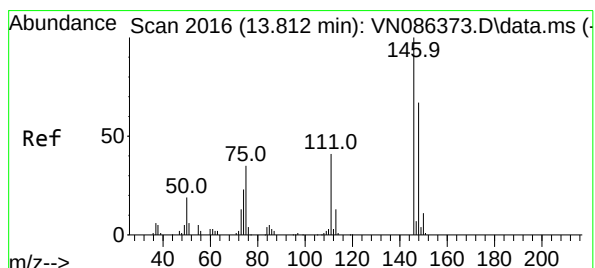
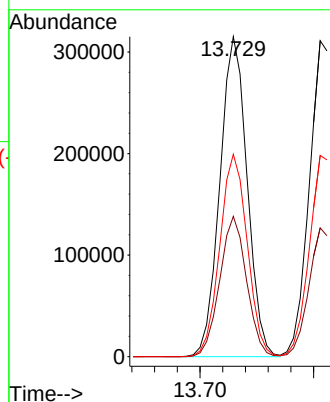
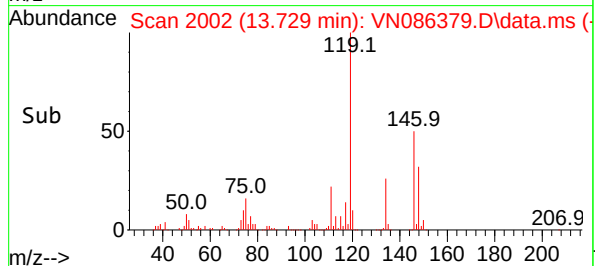
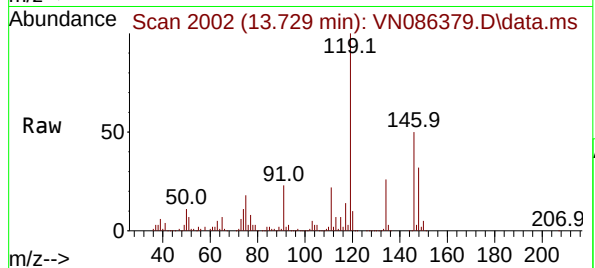
148 63.6 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#84

1,4-Dichlorobenzene

Concen: 105.635 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

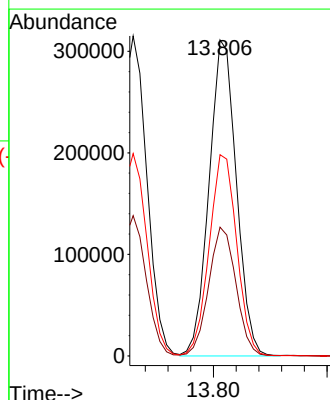
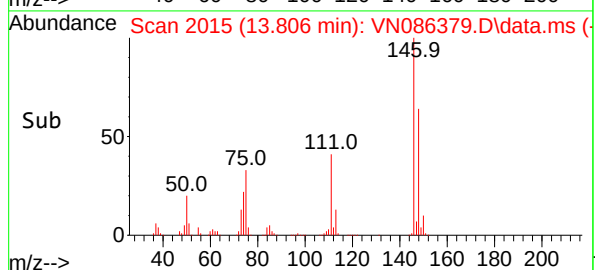
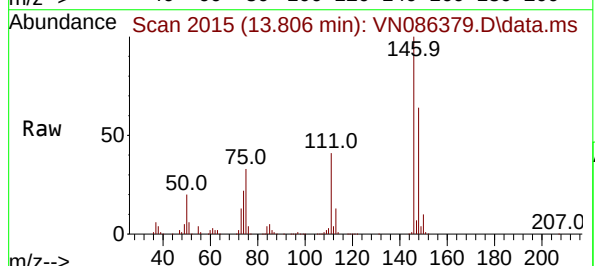
Tgt Ion:146 Resp: 520155

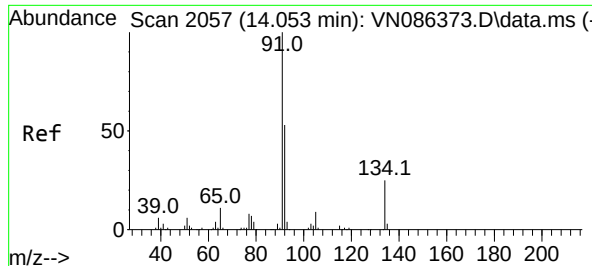
Ion Ratio Lower Upper

146 100

111 40.8 20.3 60.8

148 64.1 32.4 97.2





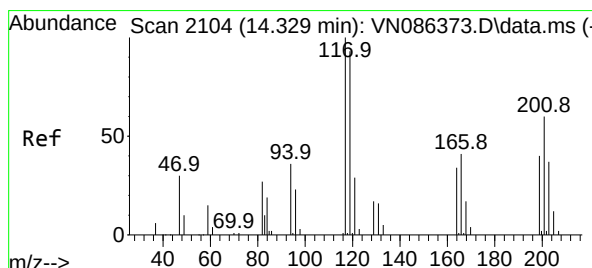
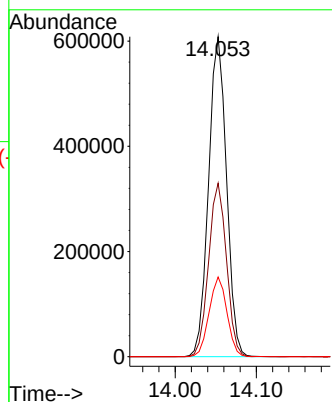
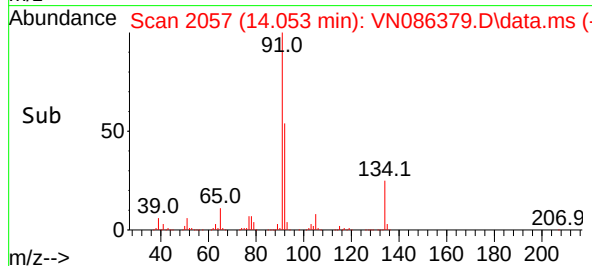
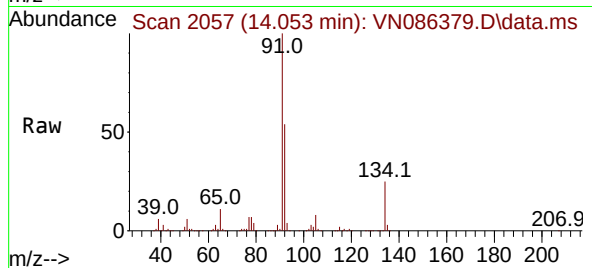
#85
n-Butylbenzene
Concen: 108.639 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:	91	Resp:	93310
Ion Ratio	Lower	Upper	
91	100		
92	54.0	0.0	107.2
134	24.8	0.0	48.2

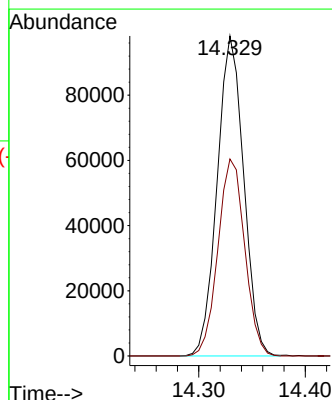
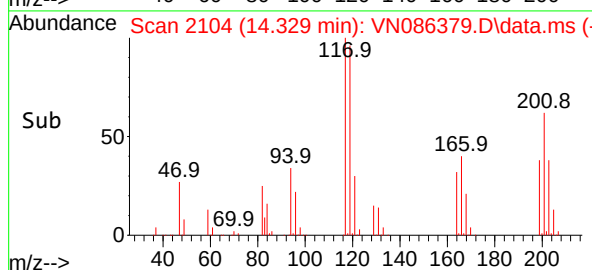
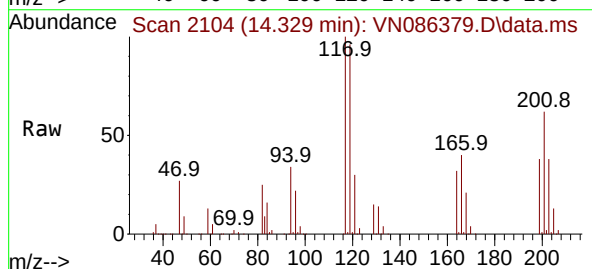
Manual Integrations
APPROVED

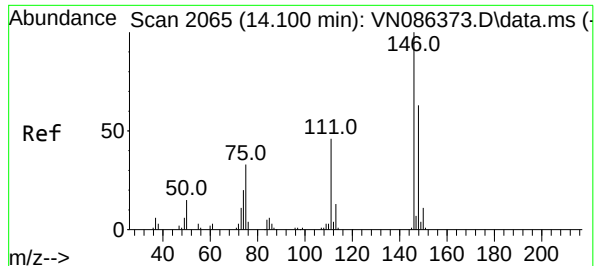
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#86
Hexachloroethane
Concen: 107.787 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:	117	Resp:	169652
Ion Ratio	Lower	Upper	
117	100		
201	62.2	31.7	95.1





#87

1,2-Dichlorobenzene

Concen: 104.502 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 49556

Ion Ratio Lower Upper

146 100

111 44.7 22.1 66.3

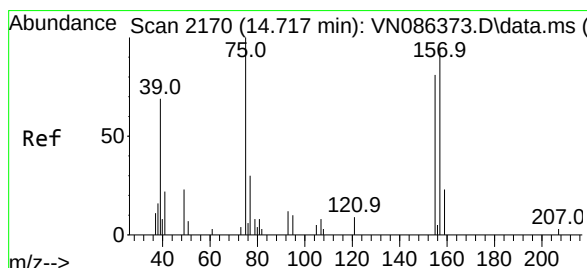
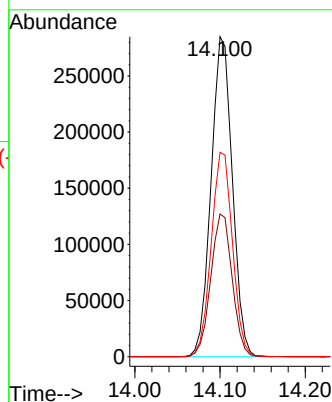
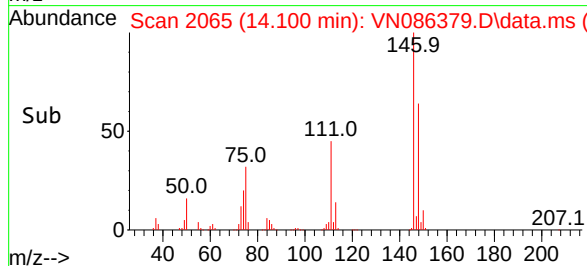
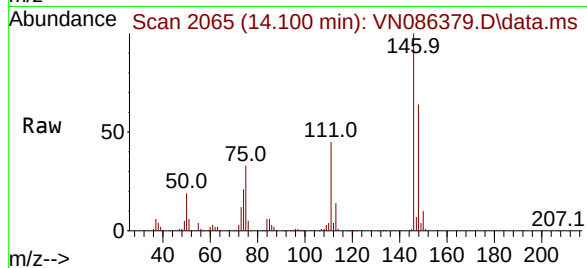
148 63.9 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 103.269 ug/l

RT: 14.718 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

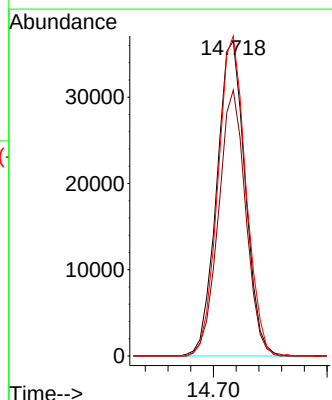
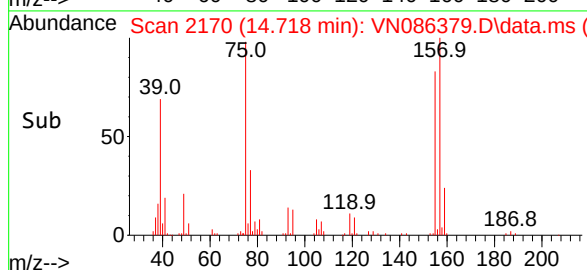
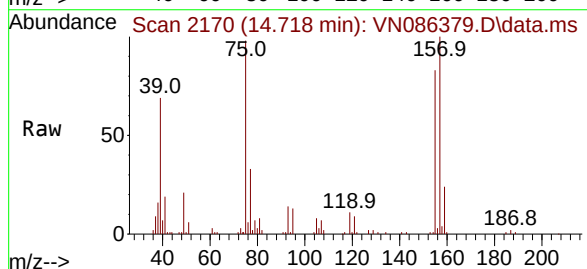
Tgt Ion: 75 Resp: 63382

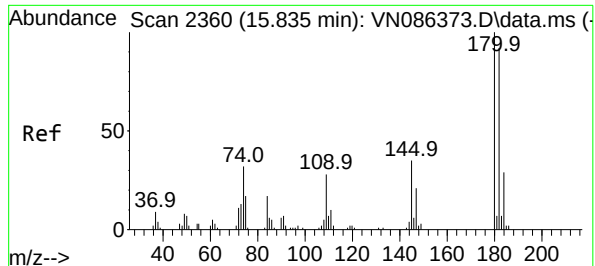
Ion Ratio Lower Upper

75 100

155 80.9 64.0 96.0

157 99.5 78.2 117.4





#89

1,2,4-Trichlorobenzene

Concen: 108.839 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 235238

Ion Ratio Lower Upper

180 100

182 95.6 74.8 112.2

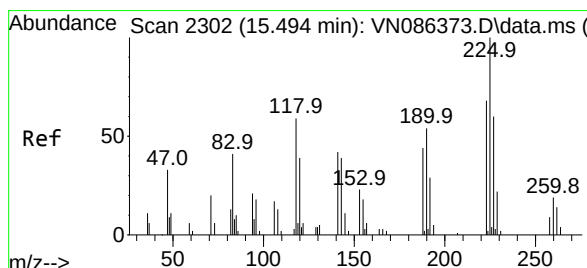
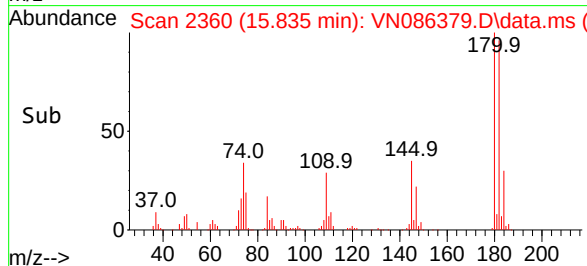
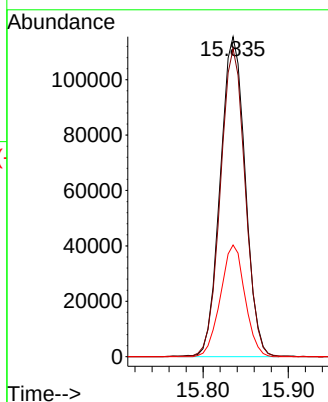
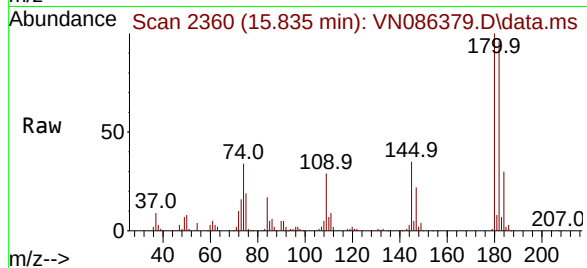
145 34.3 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

Concen: 105.391 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN086379.D

Acq: 23 Apr 2025 12:37

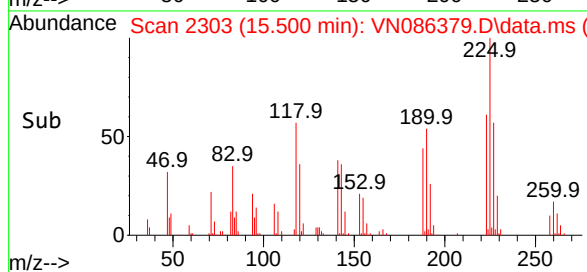
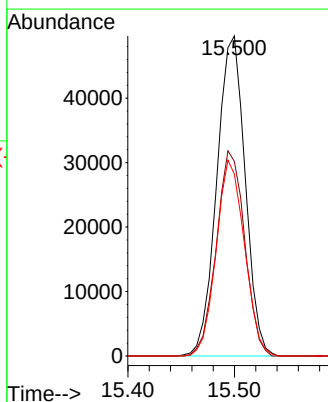
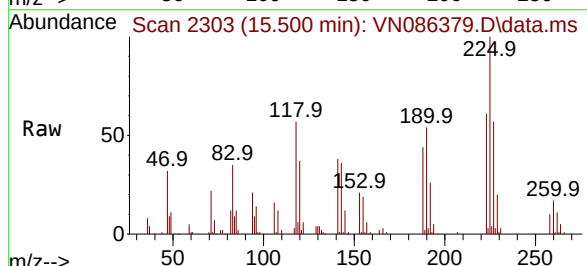
Tgt Ion:225 Resp: 91753

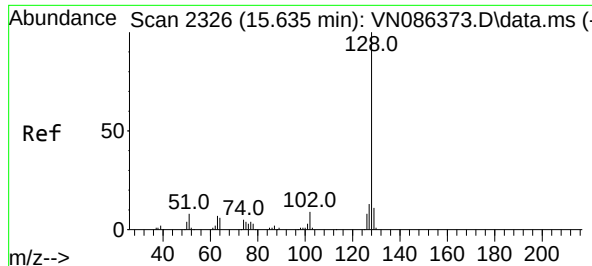
Ion Ratio Lower Upper

225 100

223 64.0 0.0 128.8

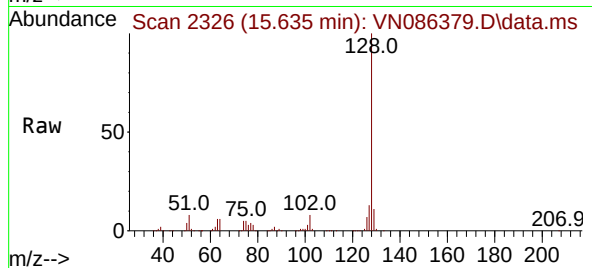
227 60.9 0.0 120.2





#91
Naphthalene
Concen: 109.005 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

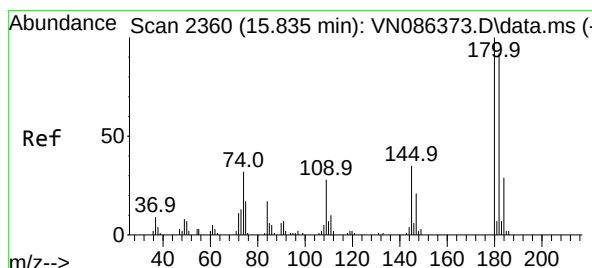
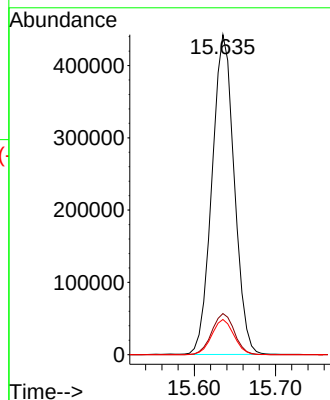
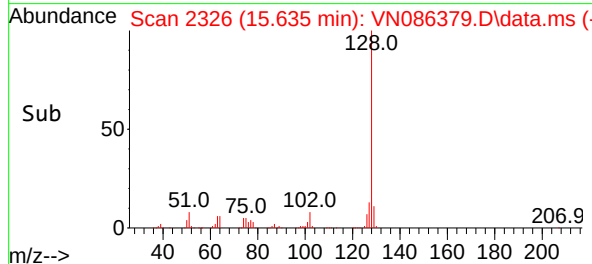
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 84346
Ion Ratio Lower Upper
128 100
127 13.0 10.6 15.8
129 10.9 8.7 13.1

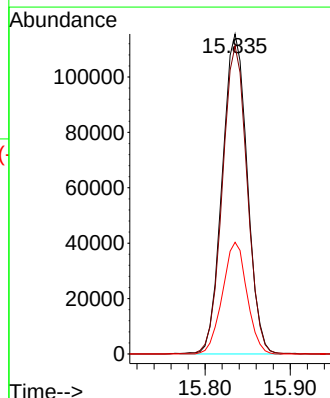
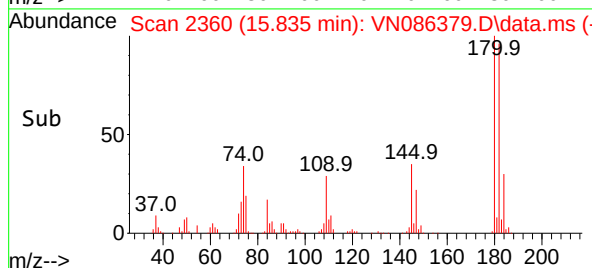
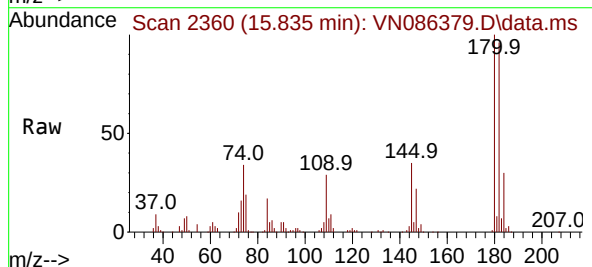
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 108.839 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086379.D
Acq: 23 Apr 2025 12:37

Tgt Ion:180 Resp: 235238
Ion Ratio Lower Upper
180 100
182 95.6 0.0 187.0
145 34.3 0.0 67.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086380.D
 Acq On : 23 Apr 2025 13:17
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 24 04:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	29674	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	179504	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	166876	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	87437	30.562	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.867%			
60) 4-Bromofluorobenzene	12.847	95	97641	29.770	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.233%			
63) Toluene-d8	10.565	98	276249	30.090	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.300%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	107358	52.404	ug/l	97
3) Chloromethane	2.359	50	144331	49.597	ug/l	97
4) Vinyl Chloride	2.518	62	141400	50.732	ug/l	98
5) Bromomethane	2.959	94	72424	49.770	ug/l	98
6) Chloroethane	3.124	64	91726	49.365	ug/l	99
7) Trichlorofluoromethane	3.501	101	162157	49.289	ug/l	100
8) Diethyl Ether	3.959	74	70750	50.946	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	102250	50.555	ug/l	98
10) 1,1-Dichloroethene	4.342	96	102780	49.648	ug/l	98
11) Methyl Iodide	4.589	142	122357	50.515	ug/l	98
12) Methyl Acetate	5.018	43	151436	51.610	ug/l	99
13) Acrolein	4.183	56	29683	249.109	ug/l	99
14) Acrylonitrile	5.712	53	278286	254.827	ug/l	99
15) Acetone	4.424	58	77690	258.174	ug/l	92
16) Carbon Disulfide	4.712	76	274340	50.292	ug/l	99
17) Allyl chloride	5.018	41	163484	49.389	ug/l	98
18) Methylene Chloride	5.277	84	116658	49.484	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	108013	48.952	ug/l	98
20) Diisopropyl ether	6.665	45	393007	49.935	ug/l	97
21) 1,1-Dichloroethane	6.565	63	213535	49.565	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	135327	49.048	ug/l	98
23) tert-Butyl Alcohol	5.506	59	106272m	251.207	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	383808	50.180	ug/l	99
25) Chloroform	7.965	83	214558	49.209	ug/l	98
26) Cyclohexane	8.253	56	188609	49.583	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	155965	49.286	ug/l	99
30) 2-Butanone	7.477	43	383786	249.867	ug/l	99
31) 2,2-Dichloropropane	7.488	77	198189	48.720	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	184336	48.747	ug/l	98
33) Carbon Tetrachloride	8.359	117	152652	49.037	ug/l	96
34) Benzene	8.600	78	490952	48.778	ug/l	97
35) Methacrylonitrile	7.777	41	86813	49.548	ug/l	98
36) 1,2-Dichloroethane	8.665	62	158575	48.526	ug/l	100
37) Trichloroethene	9.347	130	124838	49.545	ug/l	94
38) Methylcyclohexane	9.594	83	181341	49.617	ug/l	100
39) 1,2-Dichloropropane	9.618	63	120306	48.383	ug/l	92
40) Dibromomethane	9.706	93	80581	48.459	ug/l	98
41) Bromodichloromethane	9.882	83	173091	49.189	ug/l	99
42) Vinyl Acetate	6.600	43	1338201	251.508	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086380.D
 Acq On : 23 Apr 2025 13:17
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:26:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	144287	47.469	ug/l	98
44) Isopropyl Acetate	8.683	43	280778	48.670	ug/l	100
45) 1,4-Dioxane	9.688	88	46027	1022.574	ug/l	96
46) Methyl methacrylate	9.677	41	131270	49.330	ug/l	98
47) n-amyl Acetate	12.488	43	239987	48.807	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	192520	48.936	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	203961	49.162	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	112938	48.624	ug/l	97
51) Ethyl methacrylate	10.871	69	200784	49.636	ug/l	99
52) 1,3-Dichloropropane	11.159	76	201557	49.100	ug/l	99
53) Dibromochloromethane	11.353	129	128697	49.346	ug/l	98
54) 1,2-Dibromoethane	11.465	107	115855	49.058	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	471469	247.901	ug/l	99
56) Bromoform	12.576	173	82968	49.022	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	796619	246.686	ug/l	99
59) 2-Hexanone	11.194	43	584307	245.533	ug/l	99
61) Tetrachloroethene	11.100	164	122738	48.223	ug/l	95
62) Toluene	10.624	91	545929	48.875	ug/l	100
64) Chlorobenzene	11.888	112	339409	48.765	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	113702	48.858	ug/l	99
66) Ethyl Benzene	11.959	91	612399	48.707	ug/l	100
67) m/p-Xylenes	12.065	106	462741	96.999	ug/l	99
68) o-Xylene	12.394	106	226822	48.560	ug/l	98
69) Styrene	12.406	104	389200	49.159	ug/l	100
70) Isopropylbenzene	12.694	105	570012	48.886	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	149879	48.818	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	132411m	49.772	ug/l	
73) Bromobenzene	12.976	156	131410	49.022	ug/l	99
74) n-propylbenzene	13.029	91	685930	49.506	ug/l	100
75) 2-Chlorotoluene	13.123	91	422956	48.900	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	471082	49.239	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	66192	48.728	ug/l	99
78) 4-Chlorotoluene	13.218	91	424764	49.115	ug/l	100
79) tert-butylbenzene	13.435	119	401738	49.030	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	481487	49.278	ug/l	98
81) sec-Butylbenzene	13.612	105	576401	49.282	ug/l	99
82) p-Isopropyltoluene	13.723	119	486348	49.693	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	253600	50.046	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	247938	49.523	ug/l	99
85) n-Butylbenzene	14.053	91	437654	50.116	ug/l	99
86) Hexachloroethane	14.329	117	78086	48.794	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	239253	49.621	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	31467	50.425	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	115517	52.567	ug/l	99
90) Hexachlorobutadiene	15.494	225	45907	51.862	ug/l	98
91) Naphthalene	15.635	128	416250	52.908	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	115517	52.567	ug/l	99

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

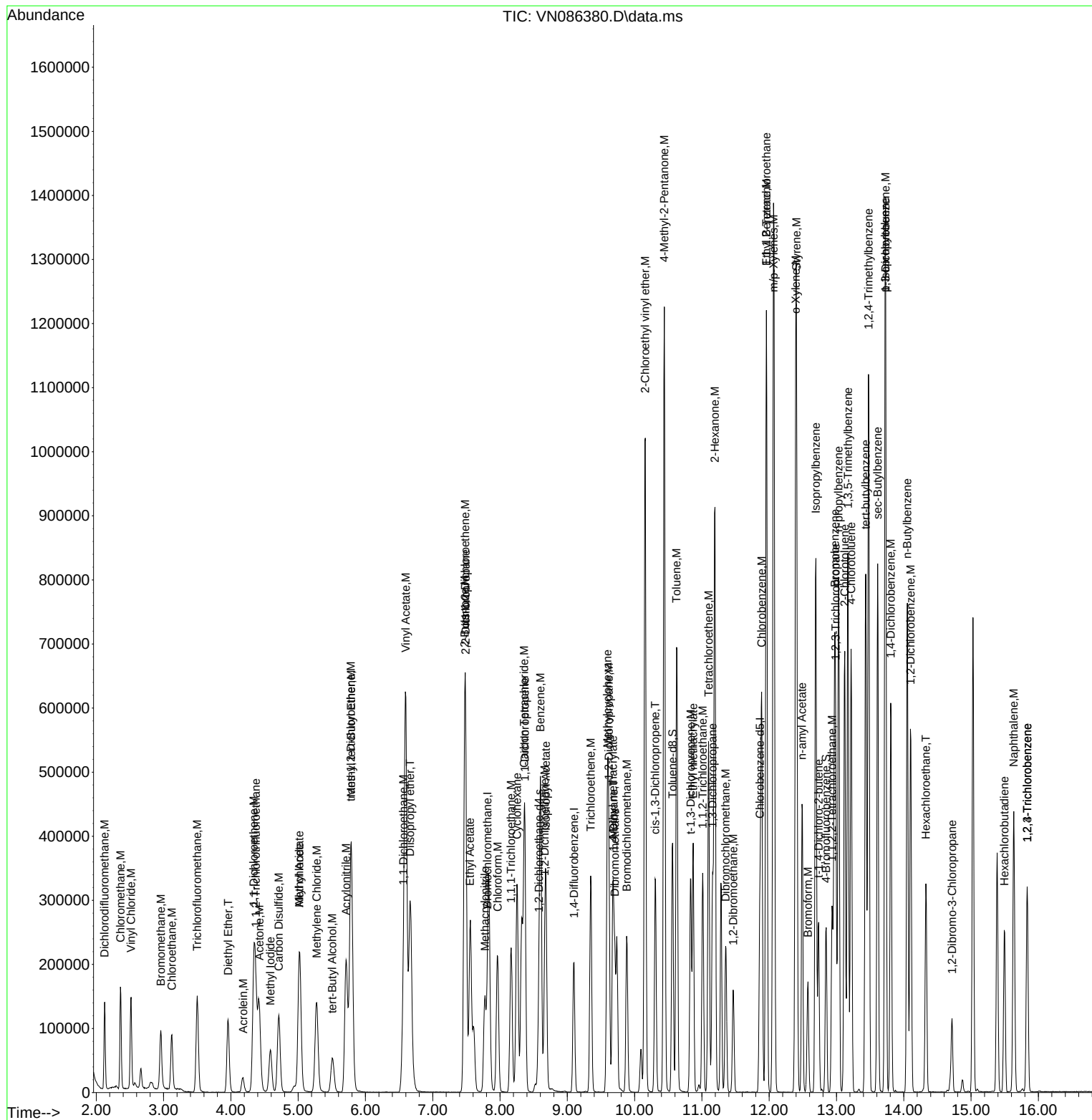
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Data File : VN086380.D  
Acq On    : 23 Apr 2025   13:17  
Operator  : JC\MD  
Sample    : VSTDICC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 10   Sample Multiplier: 1
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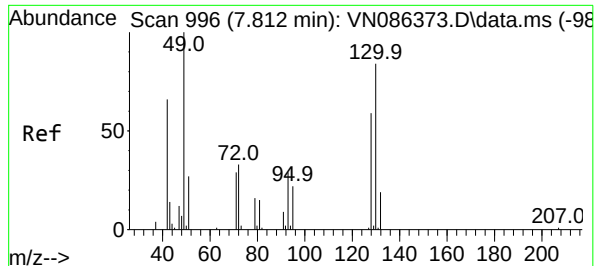
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

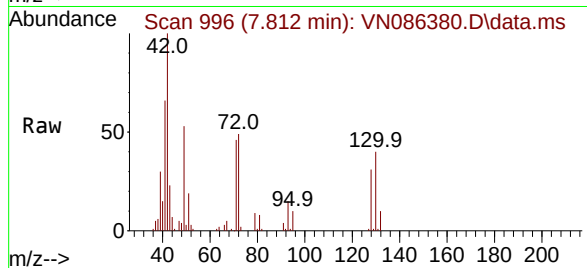
Quant Time: Apr 24 04:26:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 03:57:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

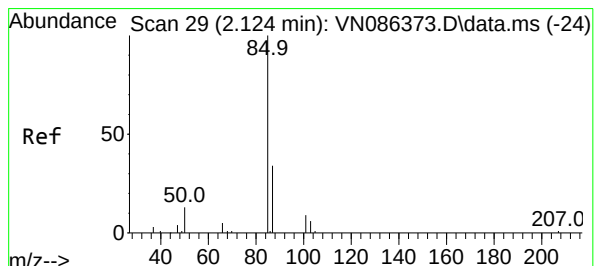
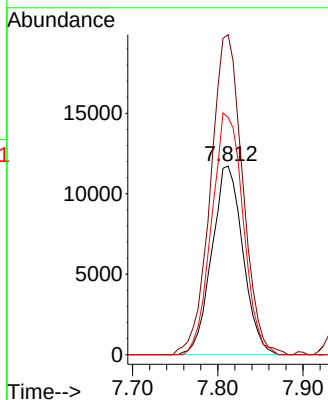
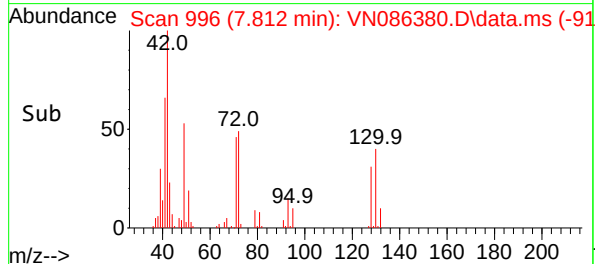
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion	Ratio	Lower	Upper
128	100		
49	175.4	0.0	433.8
130	129.9	0.0	325.0

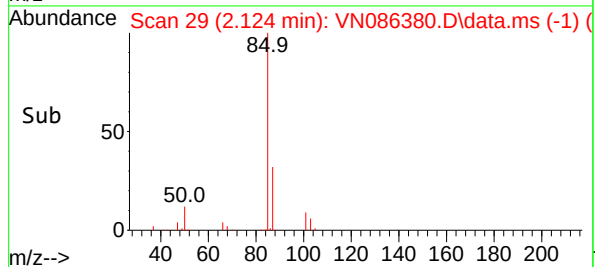
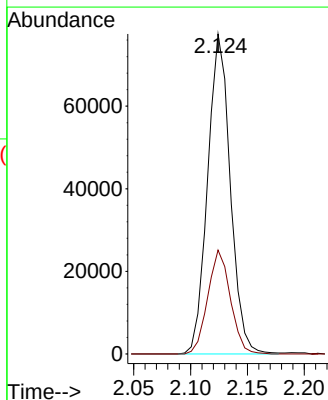
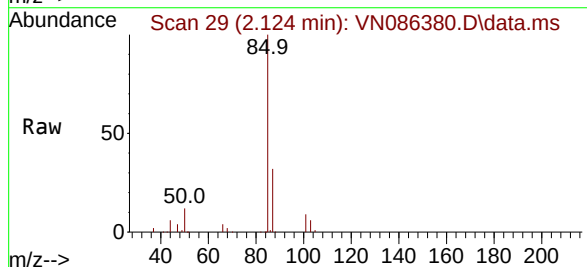
Manual Integrations
APPROVED

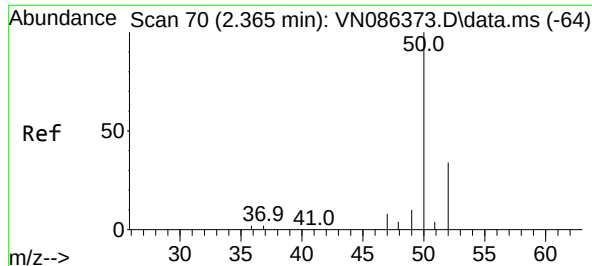
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 52.404 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.0	50.9





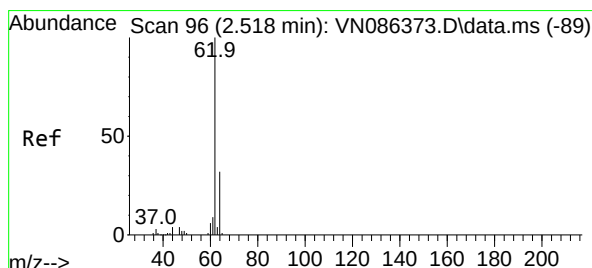
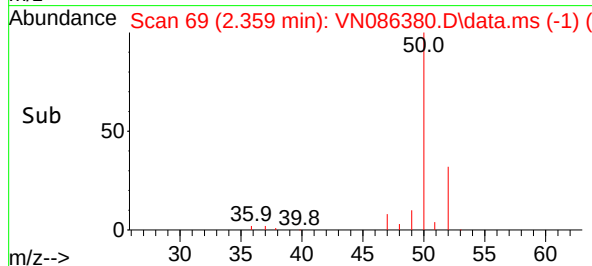
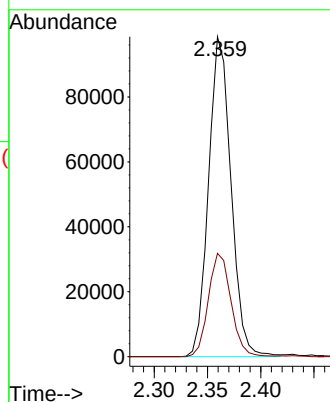
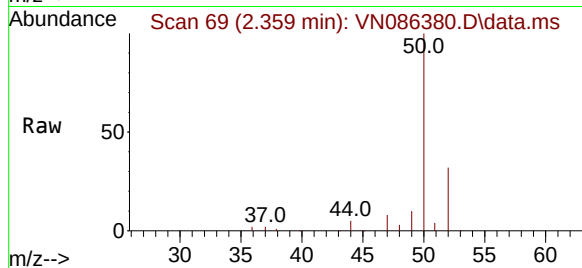
#3
Chloromethane
Concen: 49.597 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 50 Resp: 14433
Ion Ratio Lower Upper
50 100
52 32.3 27.3 40.9

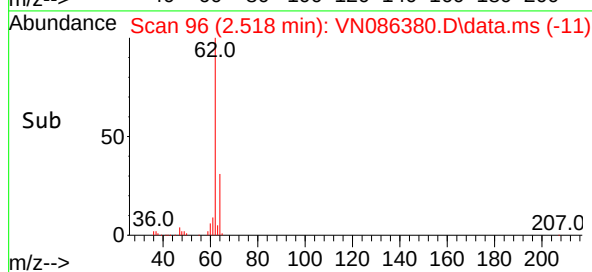
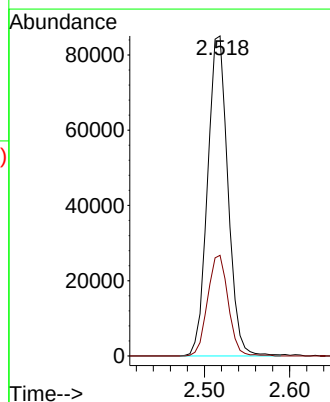
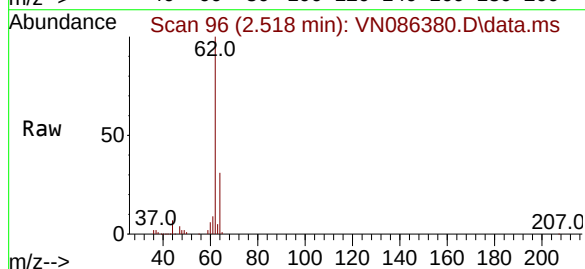
Manual Integrations
APPROVED

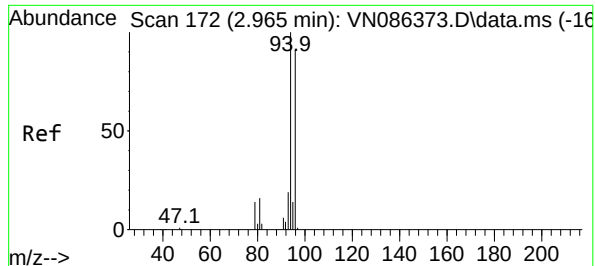
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 50.732 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 62 Resp: 141400
Ion Ratio Lower Upper
62 100
64 31.4 25.8 38.8





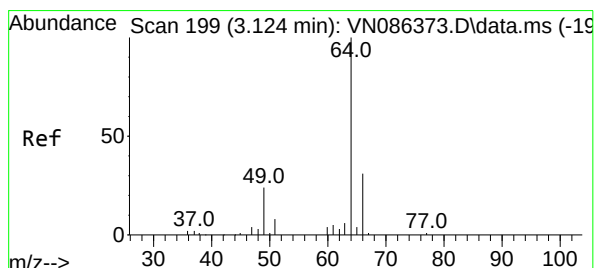
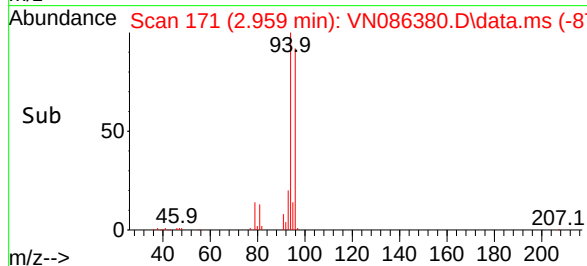
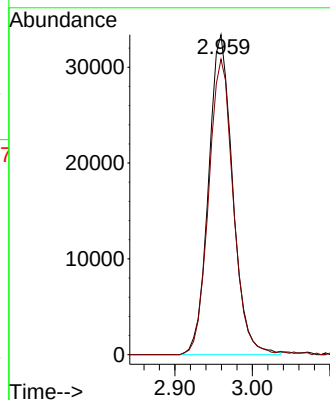
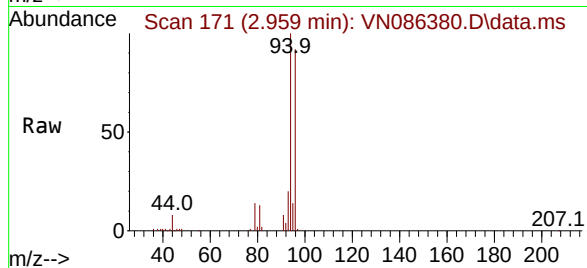
#5
Bromomethane
Concen: 49.770 ug/l
RT: 2.959 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 94 Resp: 72424
Ion Ratio Lower Upper
94 100
96 92.4 72.4 108.6

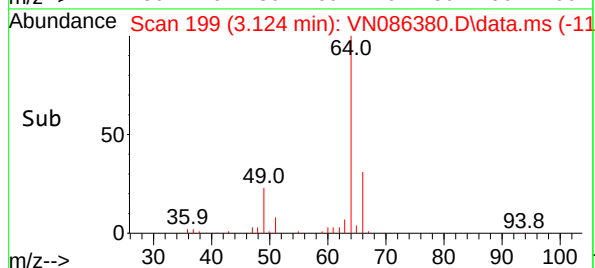
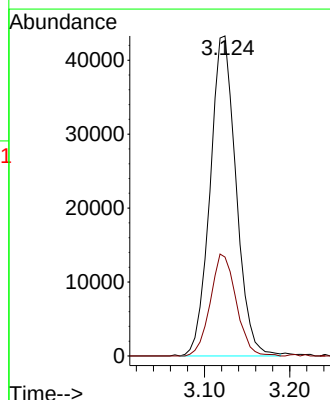
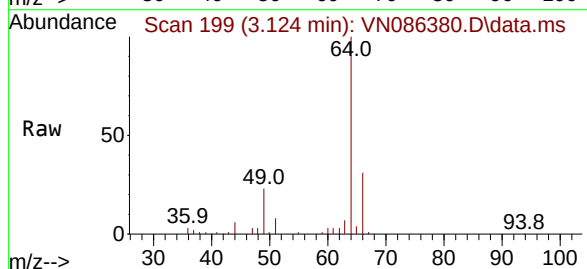
Manual Integrations
APPROVED

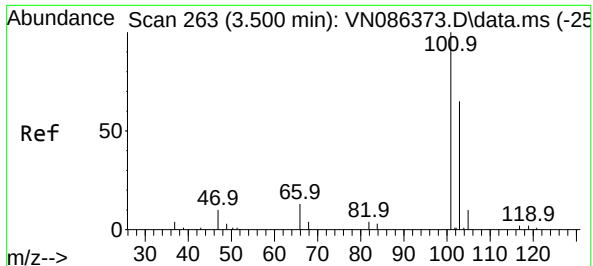
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 49.365 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

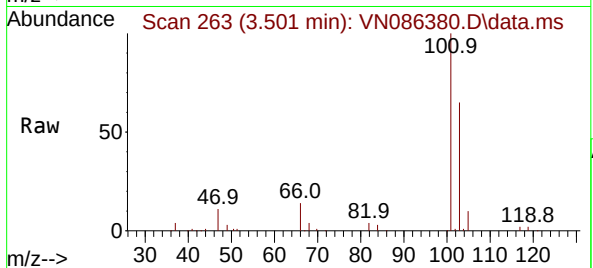
Tgt Ion: 64 Resp: 91726
Ion Ratio Lower Upper
64 100
66 30.9 24.5 36.7





#7
Trichlorofluoromethane
Concen: 49.289 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

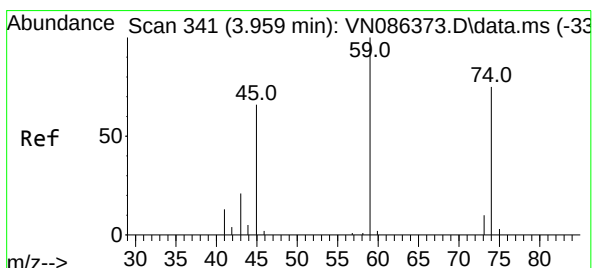
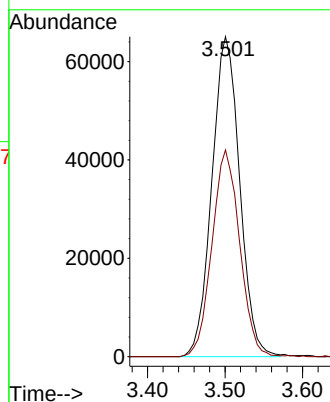
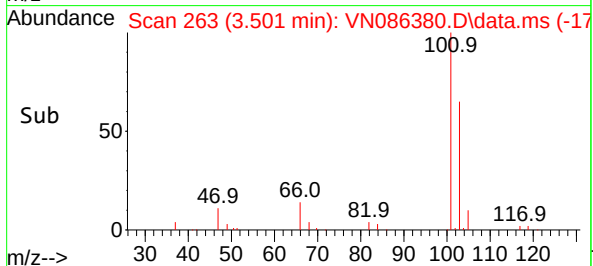
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:101 Resp: 16215
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.6

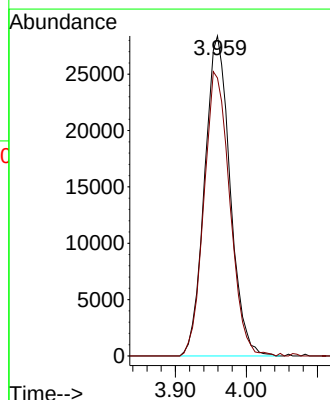
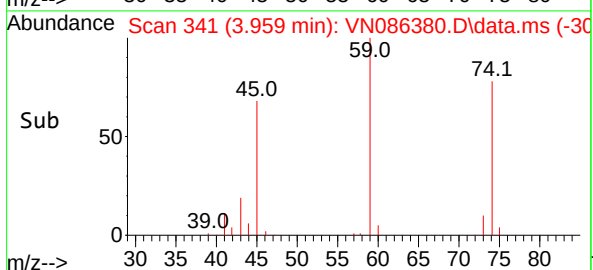
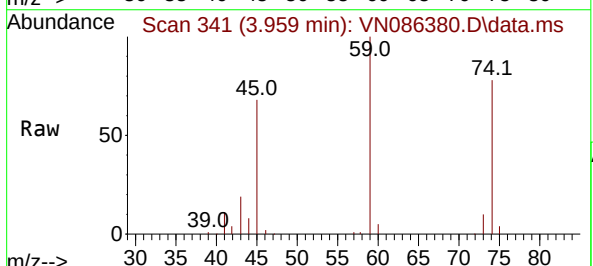
Manual Integrations
APPROVED

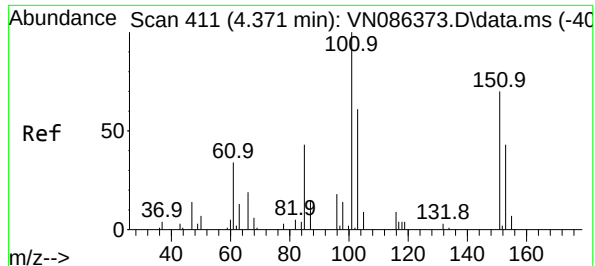
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 50.946 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 74 Resp: 70750
Ion Ratio Lower Upper
74 100
45 89.9 18.5 166.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.555 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:101 Resp: 102250

Ion Ratio Lower Upper

101 100

85 43.3 0.0 84.4

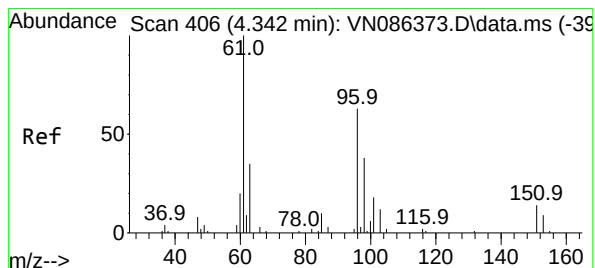
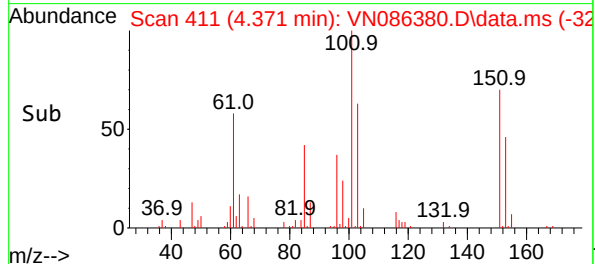
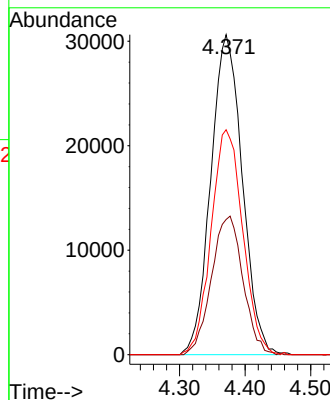
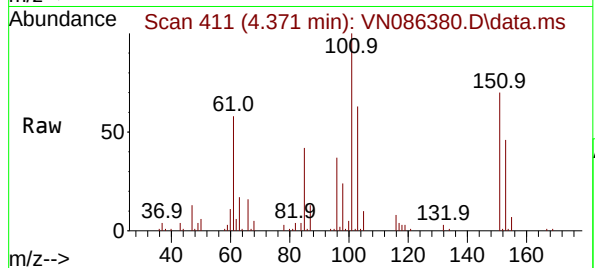
151 70.5 0.0 145.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#10

1,1-Dichloroethene

Concen: 49.648 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

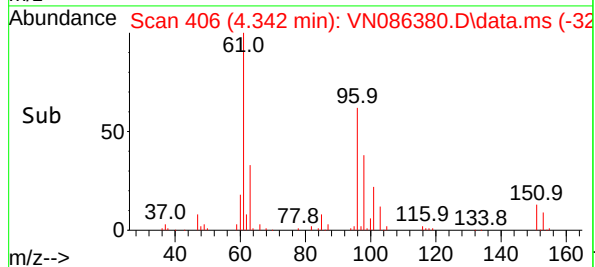
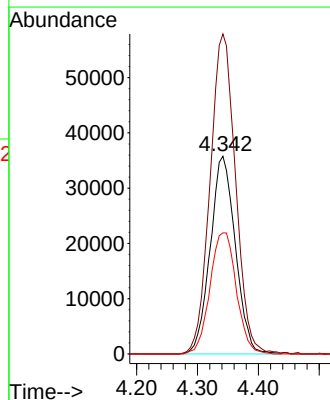
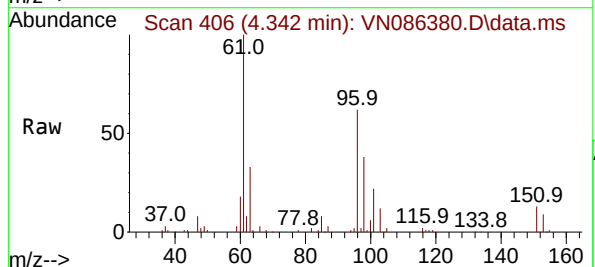
Tgt Ion: 96 Resp: 102780

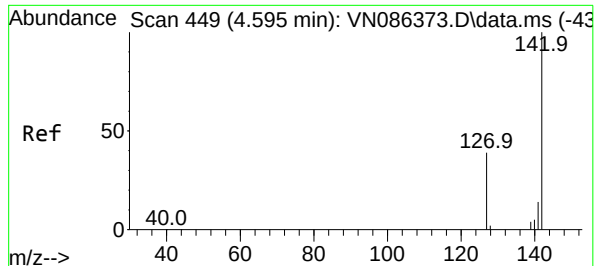
Ion Ratio Lower Upper

96 100

61 161.9 126.2 189.4

98 61.3 48.5 72.7





#11

Methyl Iodide

Concen: 50.515 ug/l

RT: 4.589 min Scan# 449

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

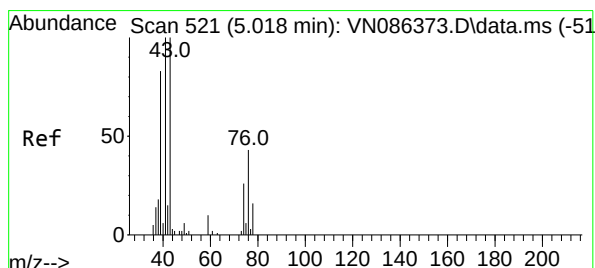
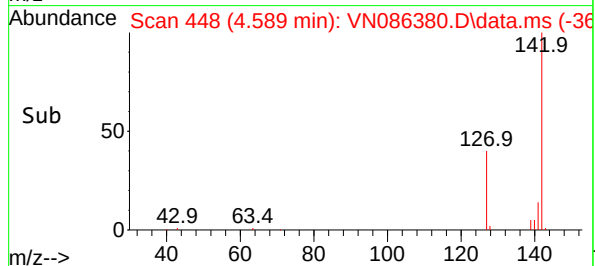
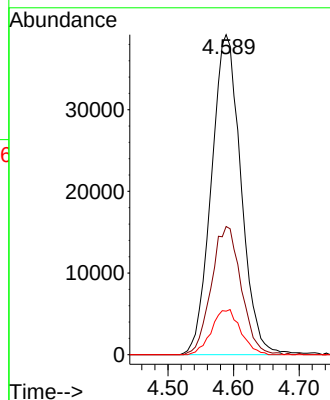
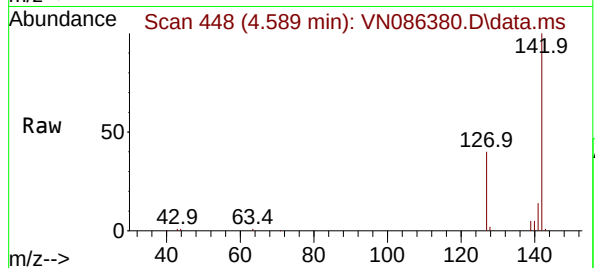
Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.0	19.3	57.9
141	13.7	7.1	21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 51.610 ug/l

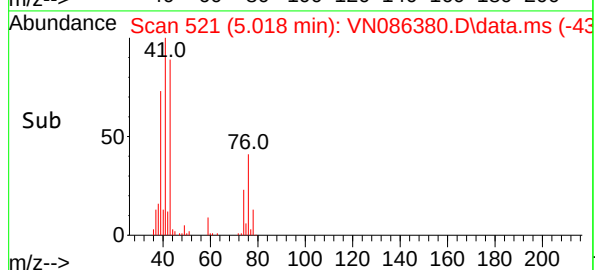
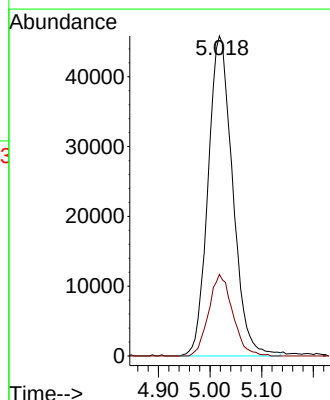
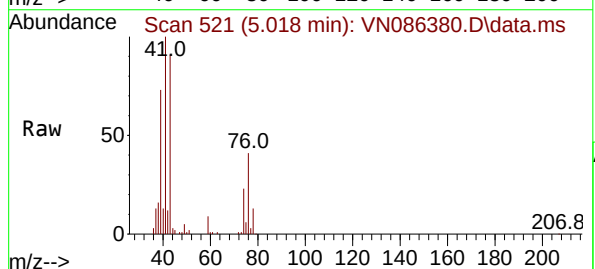
RT: 5.018 min Scan# 521

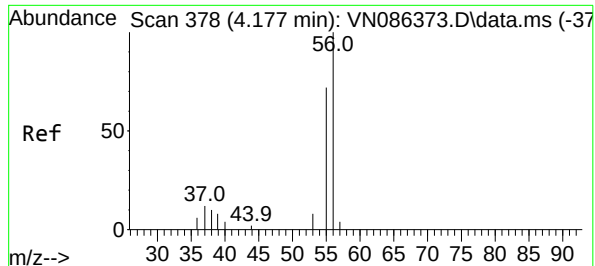
Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.6	20.8	31.2





#13

Acrolein

Concen: 249.109 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 56 Resp: 2968

Ion Ratio Lower Upper

56 100

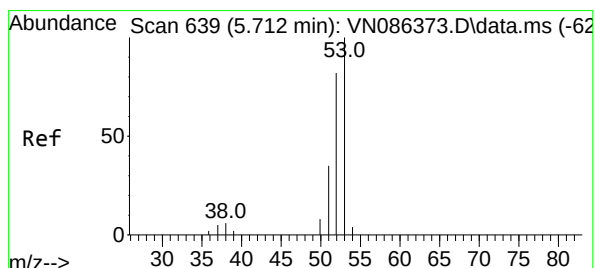
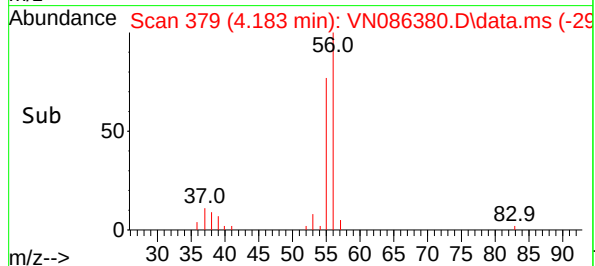
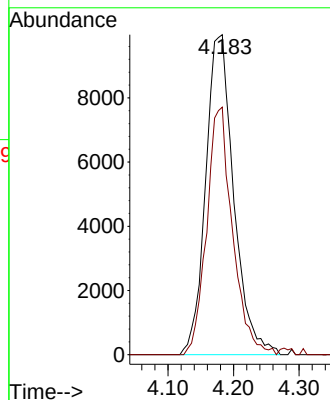
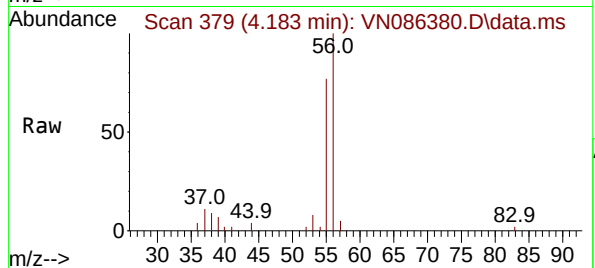
55 70.9 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 254.827 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

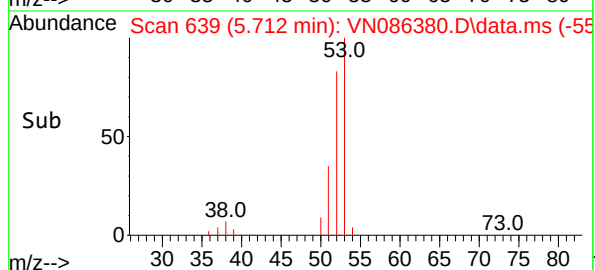
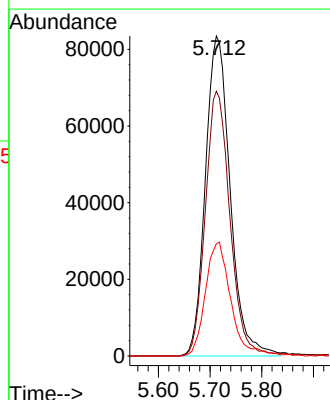
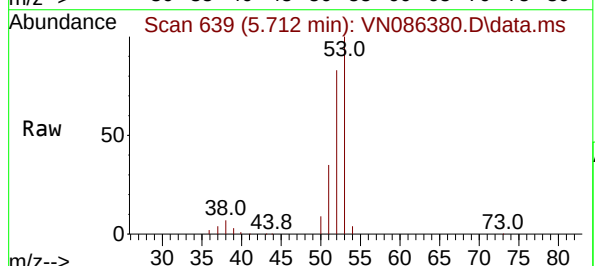
Tgt Ion: 53 Resp: 278286

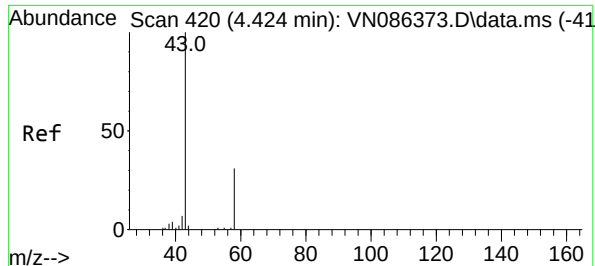
Ion Ratio Lower Upper

53 100

52 81.1 41.2 123.6

51 35.1 17.6 52.8





#15

Acetone

Concen: 258.174 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 58 Resp: 77690

Ion Ratio Lower Upper

58 100

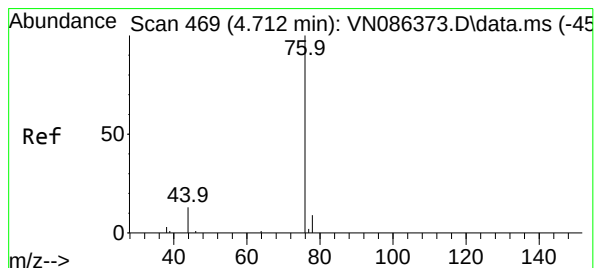
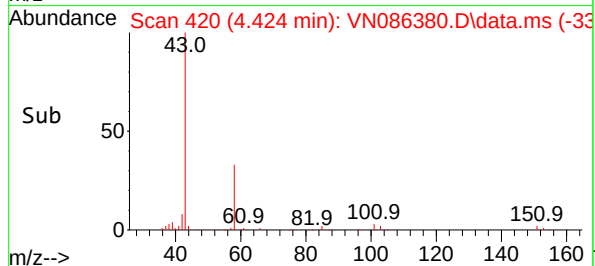
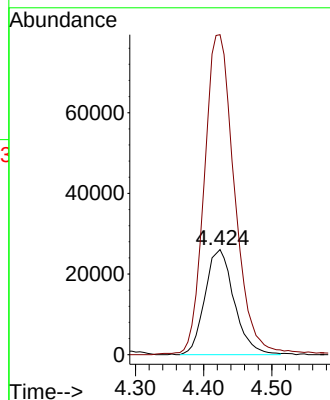
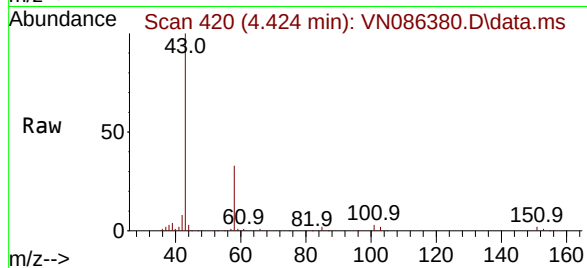
43 302.5 255.1 382.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 50.292 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086380.D

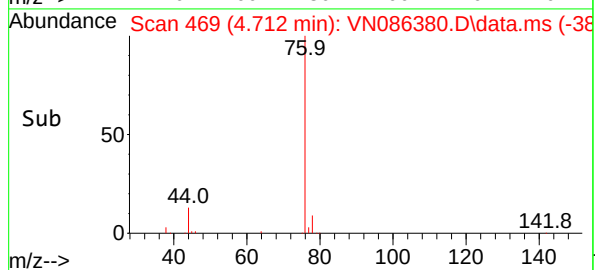
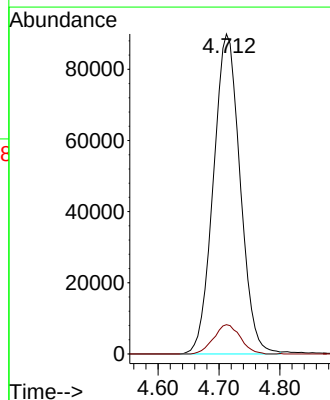
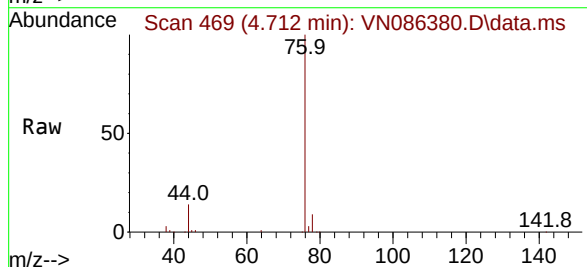
Acq: 23 Apr 2025 13:17

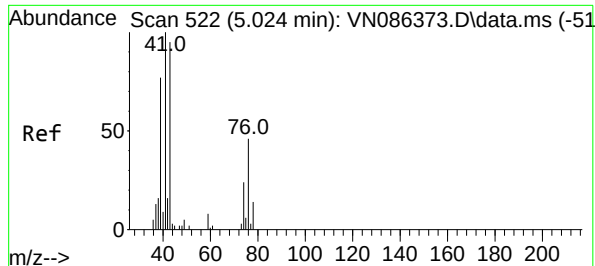
Tgt Ion: 76 Resp: 274340

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 49.389 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 163484

Ion Ratio Lower Upper

41 100

39 72.9 36.7 110.1

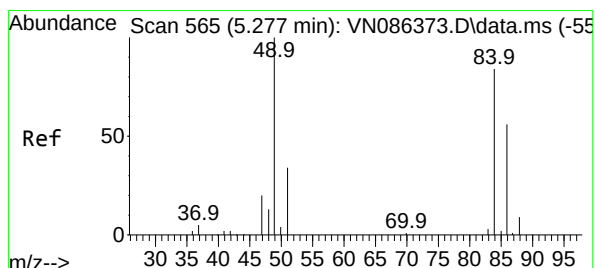
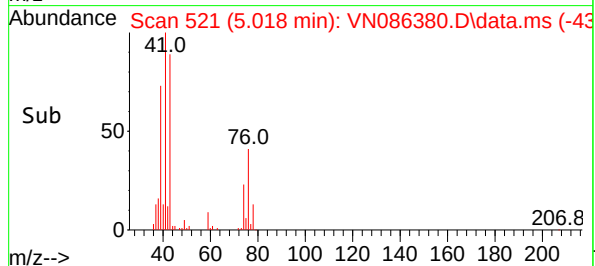
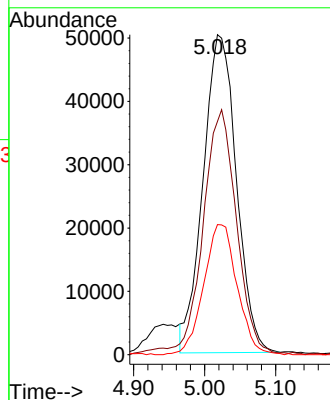
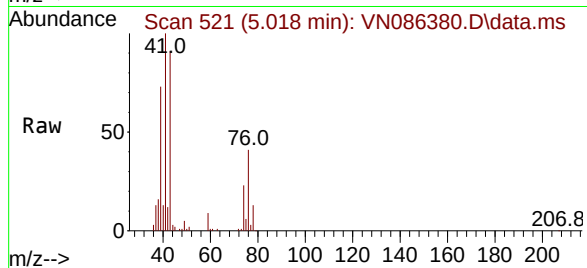
76 40.6 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 49.484 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Tgt Ion: 84 Resp: 116658

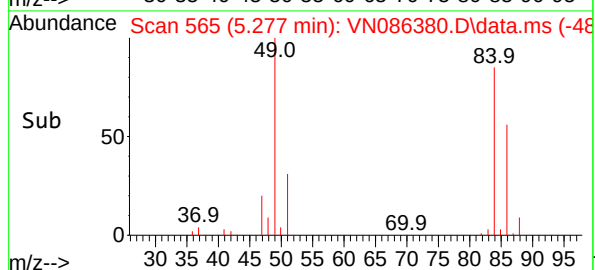
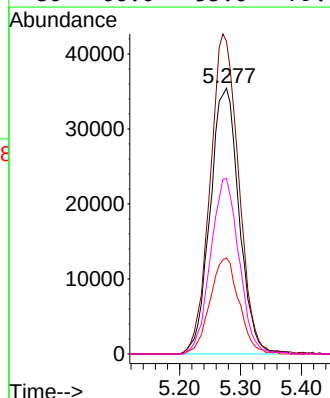
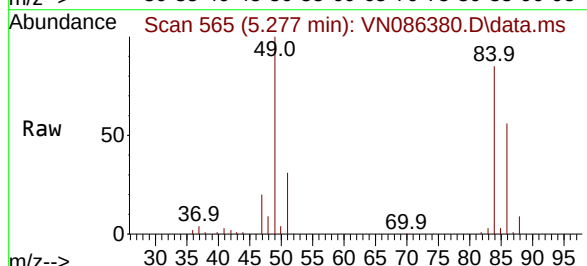
Ion Ratio Lower Upper

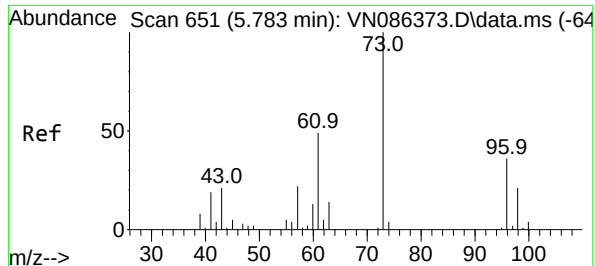
84 100

49 117.7 95.4 143.0

51 36.1 32.8 49.2

86 66.0 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 48.952 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 96 Resp: 10801

Ion Ratio Lower Upper

96 100

61 133.8 107.3 160.9

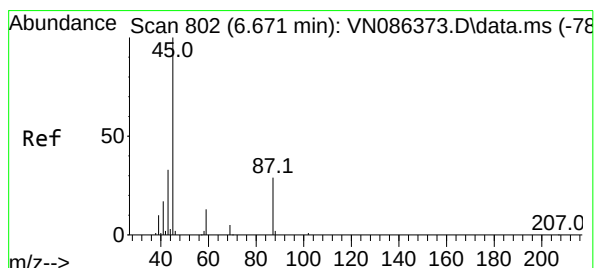
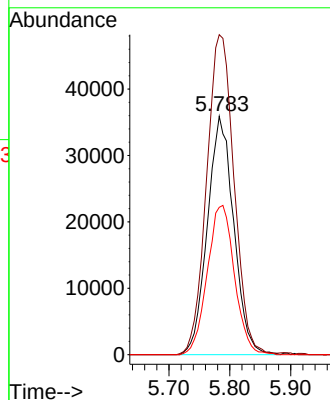
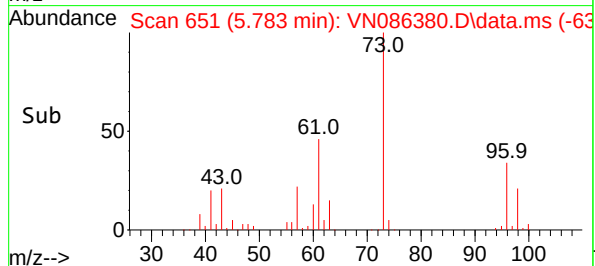
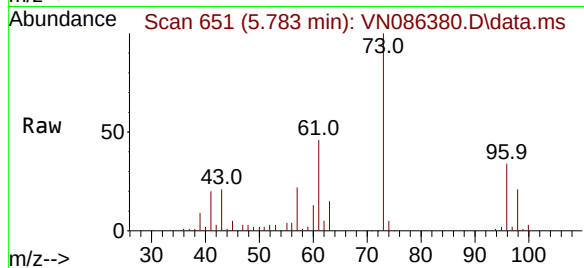
98 61.8 46.7 70.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 49.935 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Tgt Ion: 45 Resp: 393007

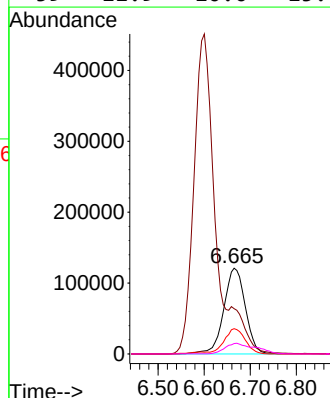
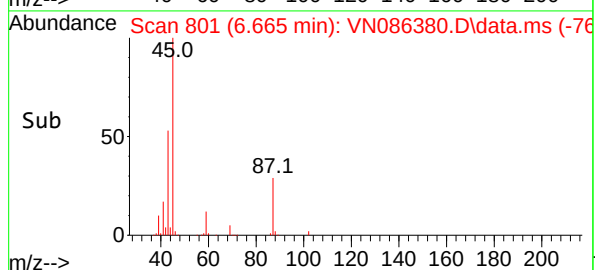
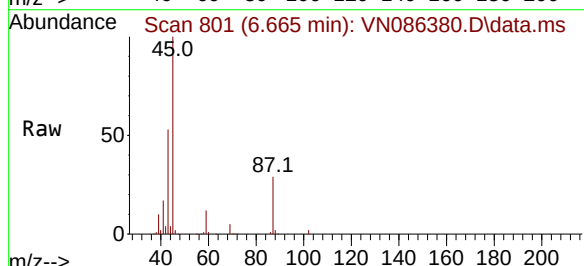
Ion Ratio Lower Upper

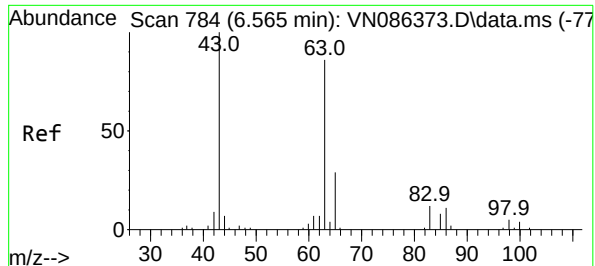
45 100

43 51.6 38.8 58.2

87 29.4 23.5 35.3

59 11.9 10.0 15.0





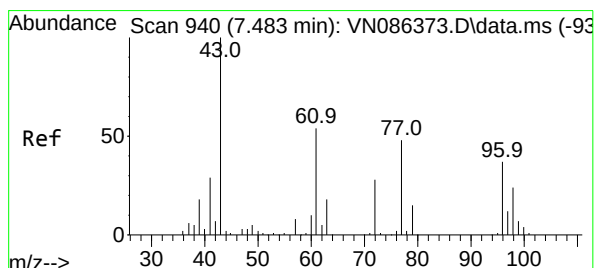
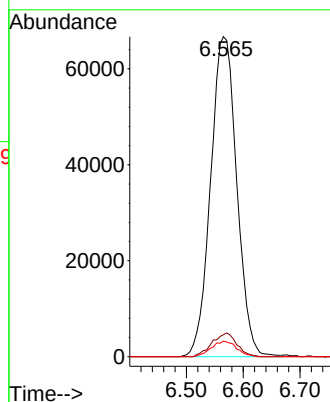
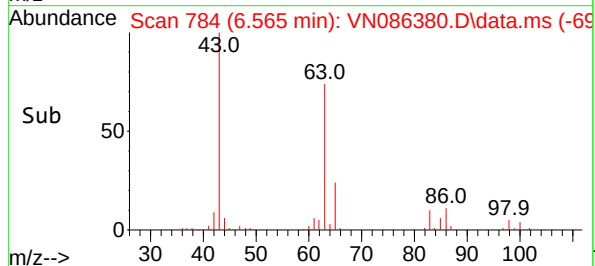
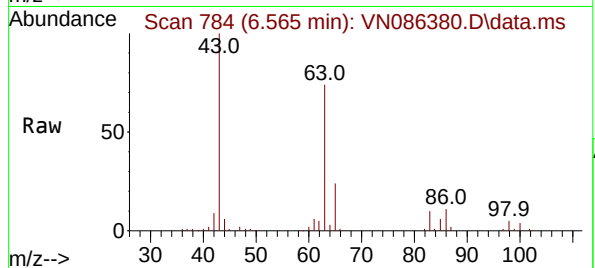
#21
1,1-Dichloroethane
Concen: 49.565 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 63 Resp: 21353
Ion Ratio Lower Upper
63 100
98 6.9 3.0 9.2
100 4.8 2.3 6.8

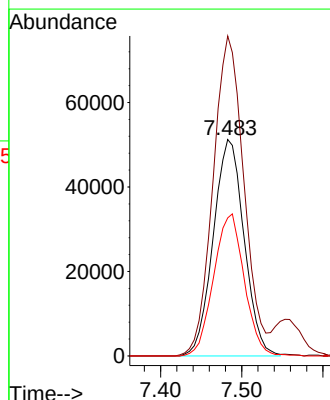
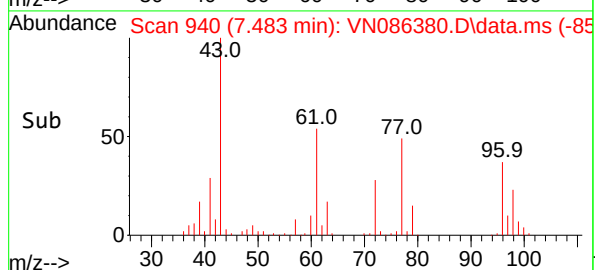
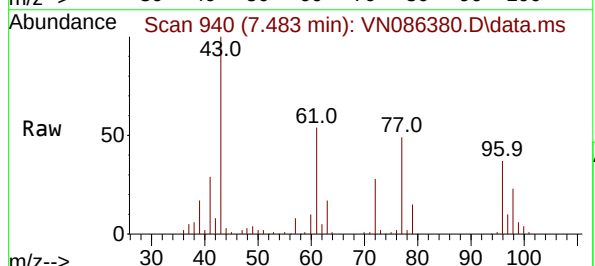
Manual Integrations
APPROVED

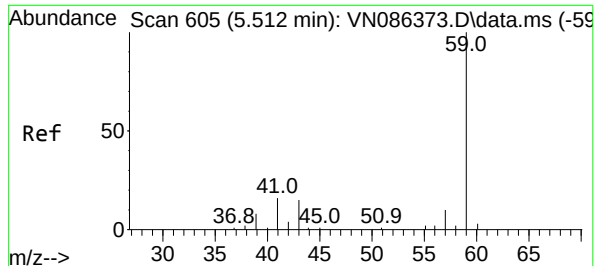
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 49.048 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 96 Resp: 135327
Ion Ratio Lower Upper
96 100
61 147.5 120.6 181.0
98 64.9 51.8 77.6





#23

tert-Butyl Alcohol

Concen: 251.207 ug/l m

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 59 Resp: 106272

Ion Ratio Lower Upper

59 100

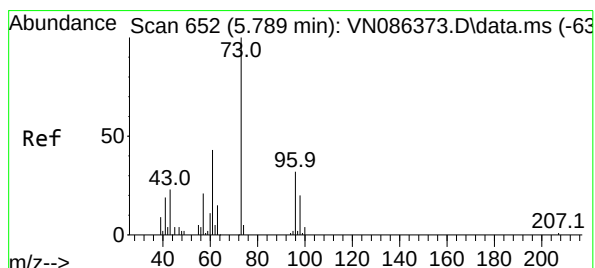
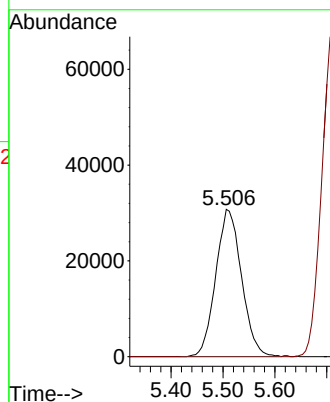
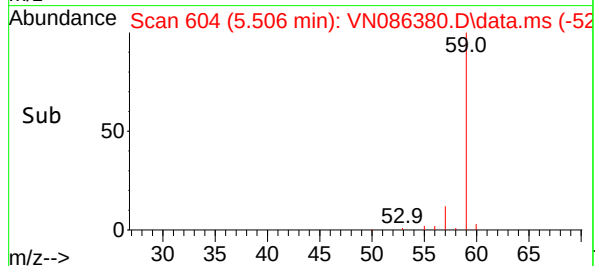
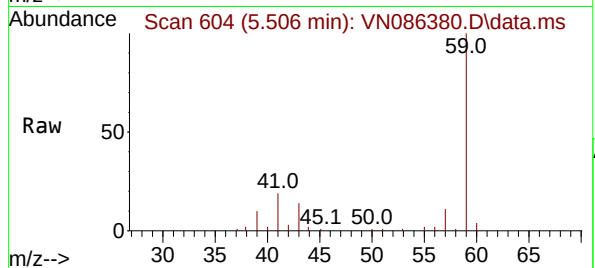
52 0.0 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#24

Methyl tert-Butyl Ether

Concen: 50.180 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086380.D

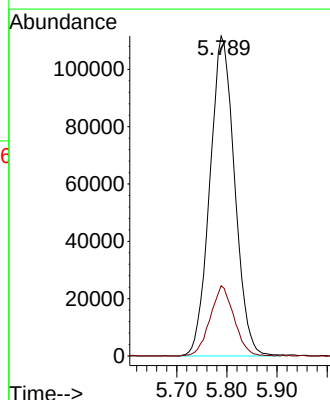
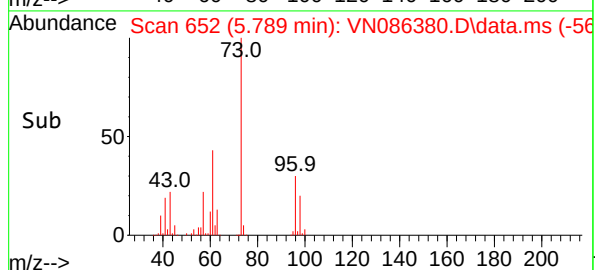
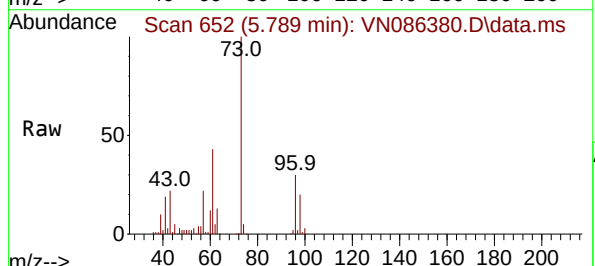
Acq: 23 Apr 2025 13:17

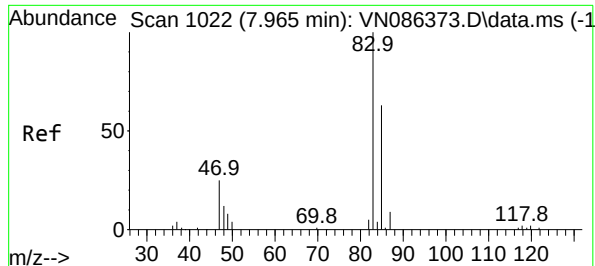
Tgt Ion: 73 Resp: 383808

Ion Ratio Lower Upper

73 100

43 21.1 17.1 25.7





#25

Chloroform

Concen: 49.209 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 214558

Ion Ratio Lower Upper

83 100

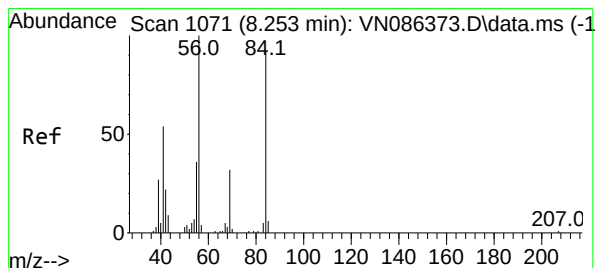
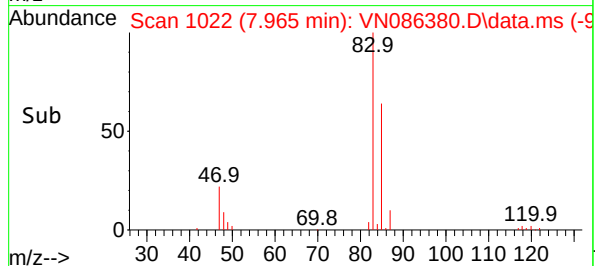
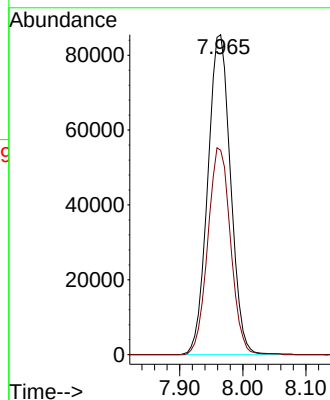
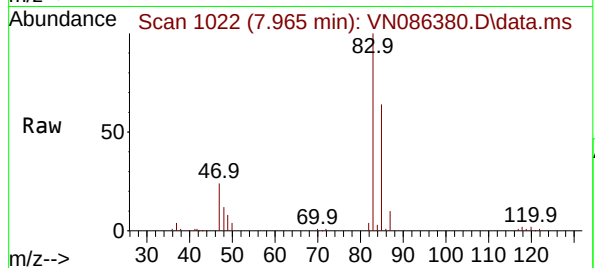
85 63.9 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 49.583 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

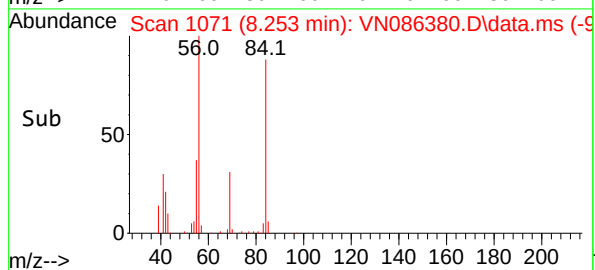
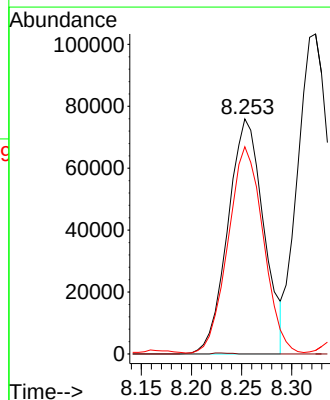
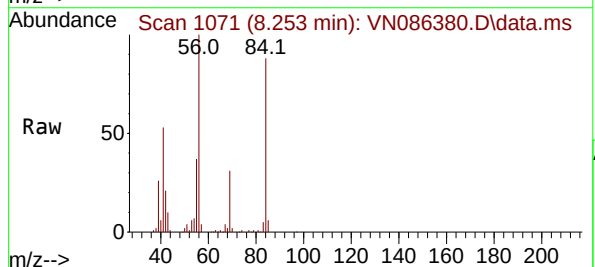
Tgt Ion: 56 Resp: 188609

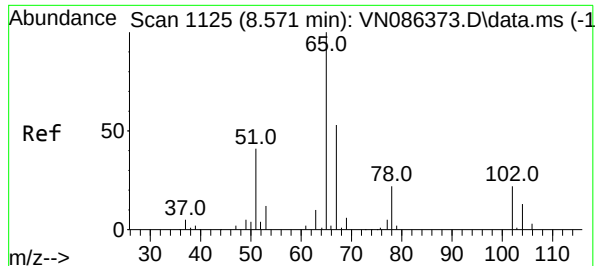
Ion Ratio Lower Upper

56 100

89 0.2 0.0 0.0#

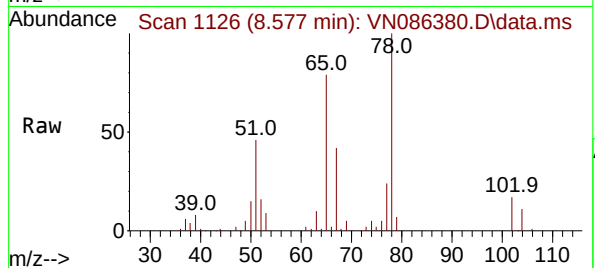
84 87.3 71.5 107.3





#27
1,2-Dichloroethane-d4
Concen: 30.562 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

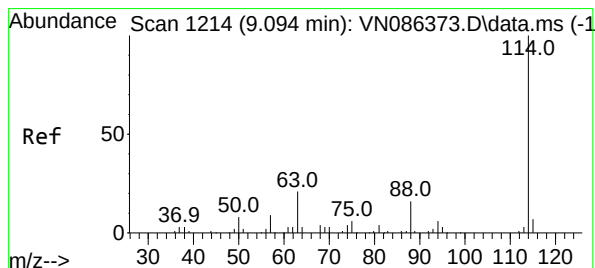
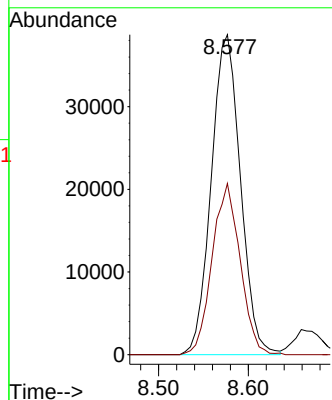
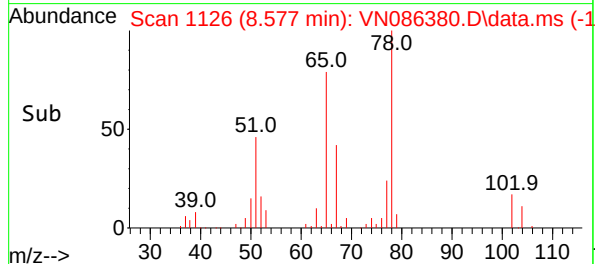
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 65 Resp: 8743
Ion Ratio Lower Upper
65 100
67 51.2 42.5 63.7

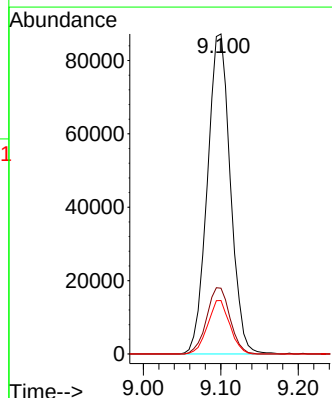
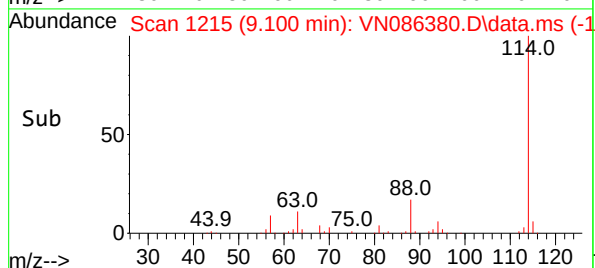
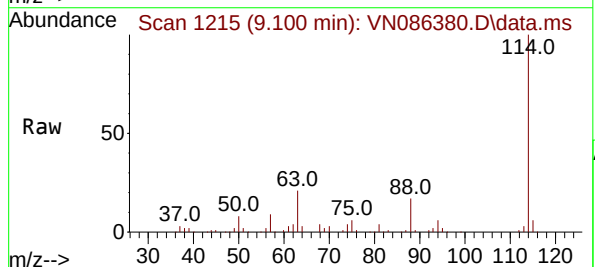
Manual Integrations
APPROVED

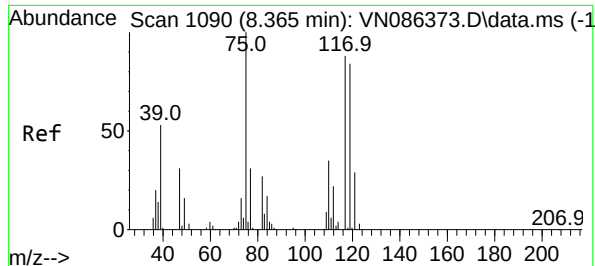
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion:114 Resp: 179504
Ion Ratio Lower Upper
114 100
63 21.0 16.7 25.1
88 16.1 12.6 19.0





#29

1,1-Dichloropropene

Concen: 49.286 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 15596

Ion Ratio Lower Upper

75 100

110 34.1 0.0 68.0

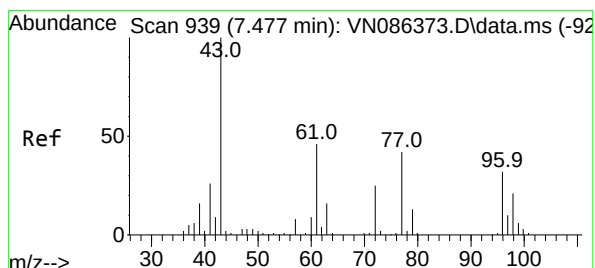
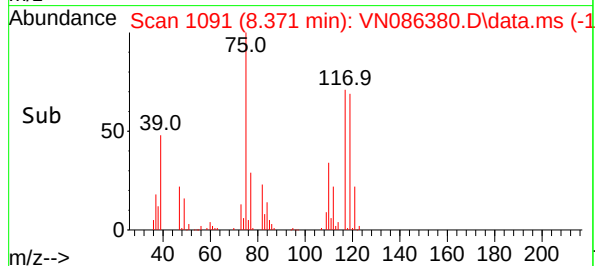
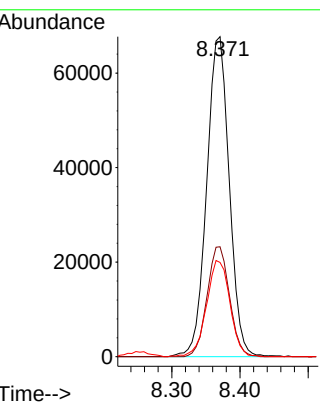
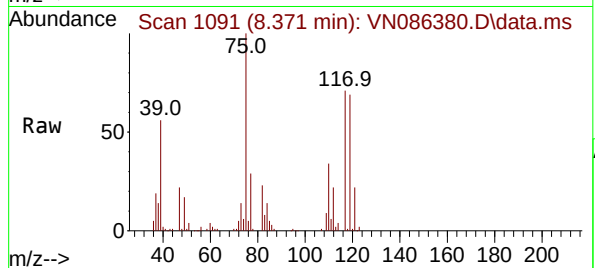
77 31.2 0.0 61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 249.867 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

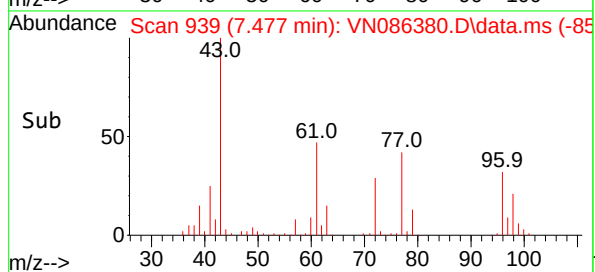
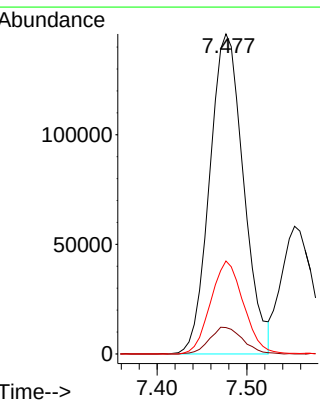
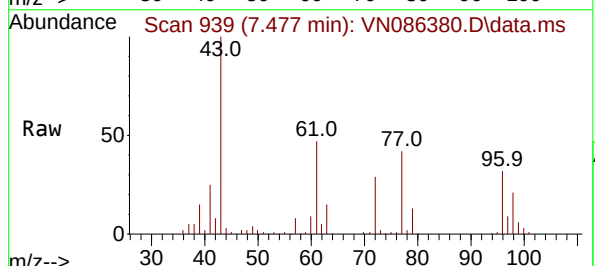
Tgt Ion: 43 Resp: 383786

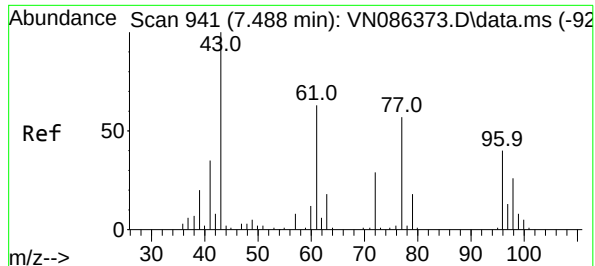
Ion Ratio Lower Upper

43 100

57 8.2 6.6 10.0

72 28.1 22.2 33.4





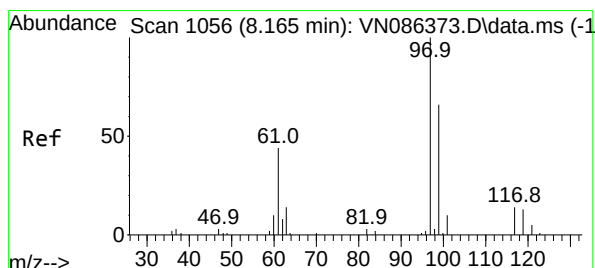
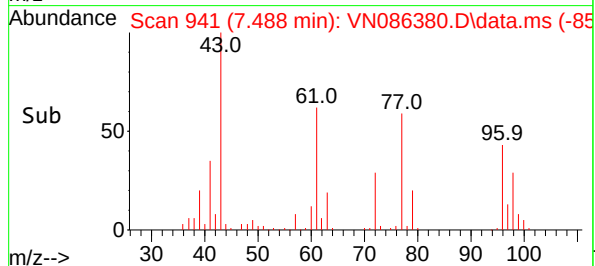
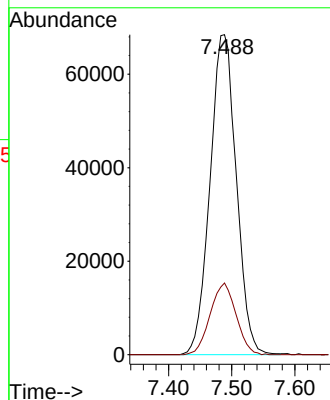
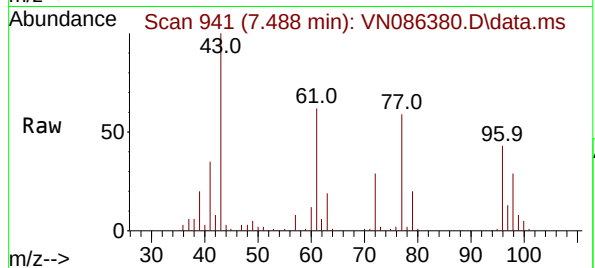
#31
2,2-Dichloropropane
Concen: 48.720 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 77 Resp: 198189
Ion Ratio Lower Upper
77 100
97 22.0 18.2 27.2

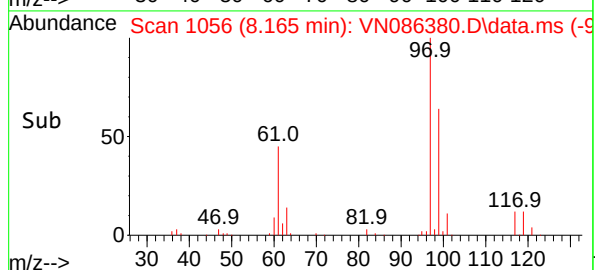
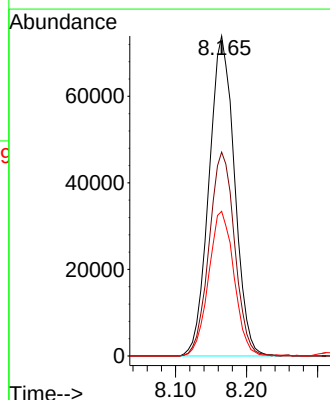
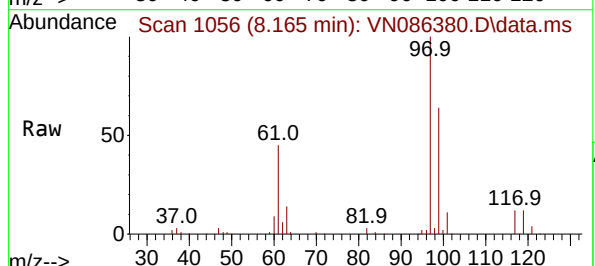
Manual Integrations
APPROVED

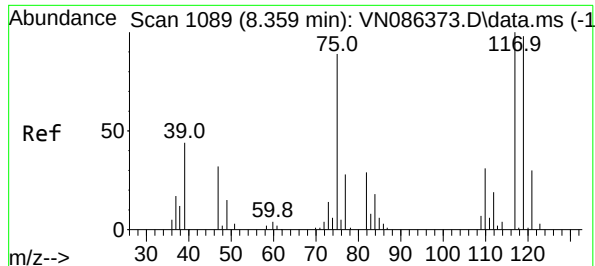
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#32
1,1,1-Trichloroethane
Concen: 48.747 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

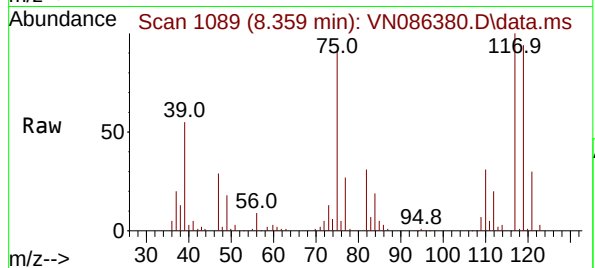
Tgt Ion: 97 Resp: 184336
Ion Ratio Lower Upper
97 100
99 63.8 52.6 79.0
61 45.1 36.4 54.6





#33
Carbon Tetrachloride
Concen: 49.037 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

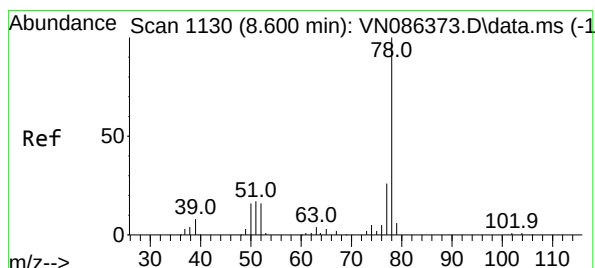
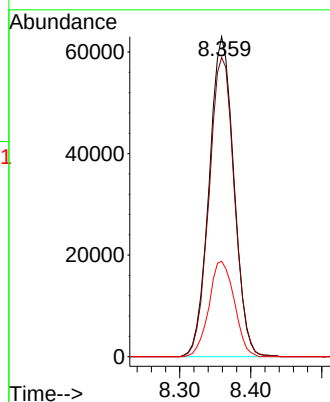
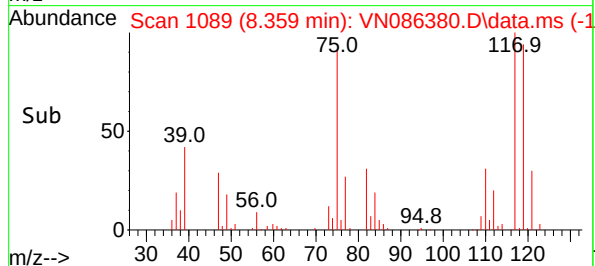
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 117 Resp: 152652
Ion Ratio Lower Upper
117 100
119 93.5 78.6 117.8
121 29.8 24.0 36.0

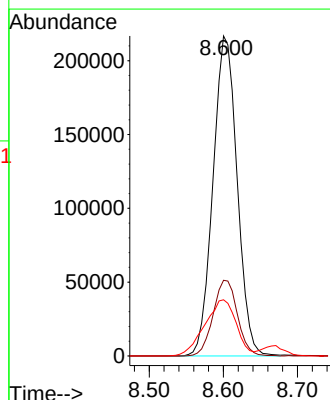
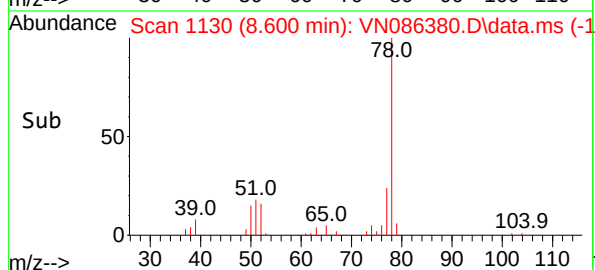
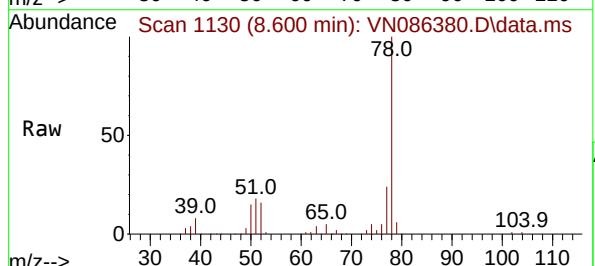
Manual Integrations
APPROVED

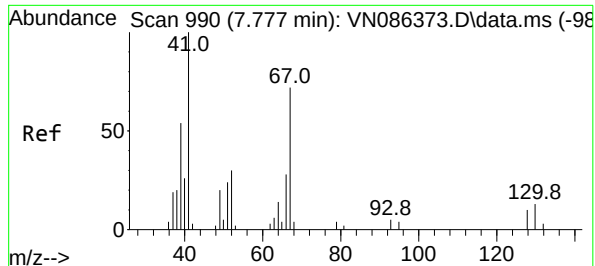
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 48.778 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 78 Resp: 490952
Ion Ratio Lower Upper
78 100
77 23.6 20.8 31.2
51 17.0 14.0 21.0





#35

Methacrylonitrile

Concen: 49.548 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 8681

Ion Ratio Lower Upper

41 100

39 54.3 27.0 80.8

67 75.4 35.8 107.3

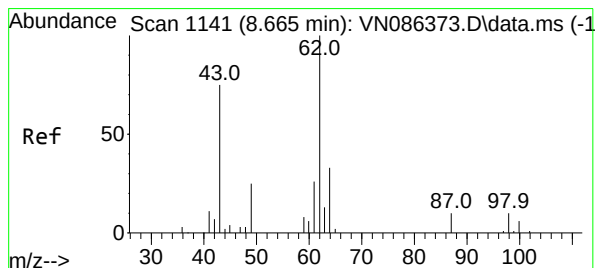
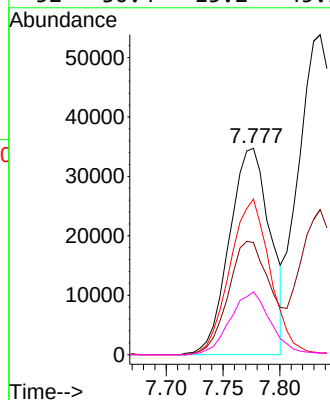
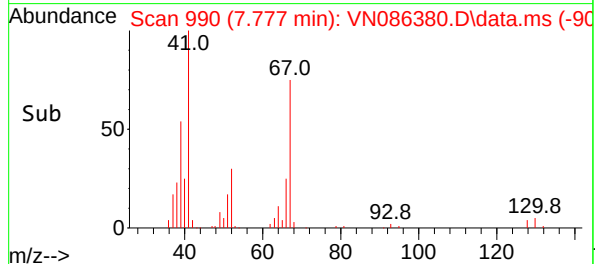
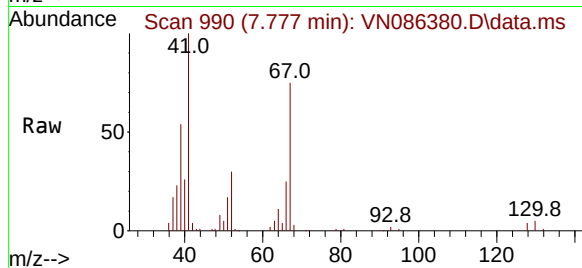
52 30.4 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 48.526 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN086380.D

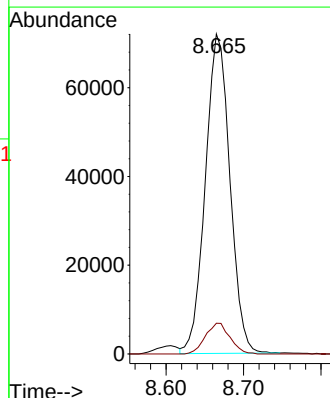
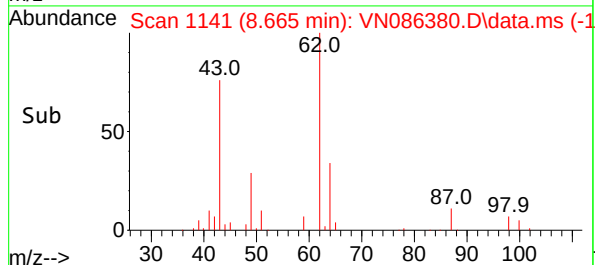
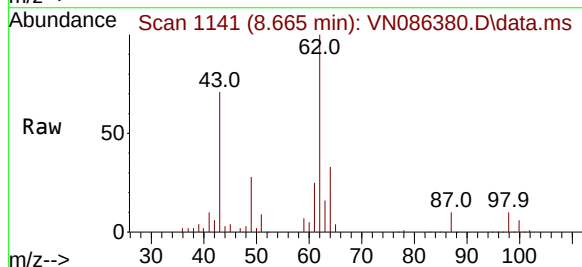
Acq: 23 Apr 2025 13:17

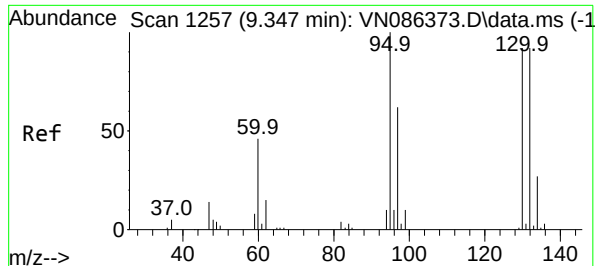
Tgt Ion: 62 Resp: 158575

Ion Ratio Lower Upper

62 100

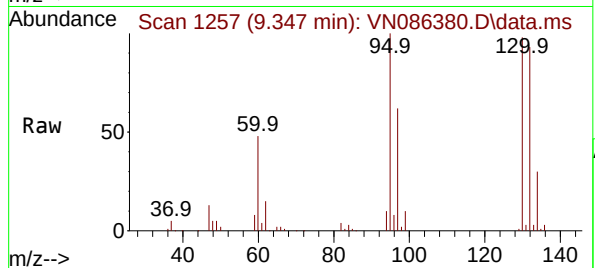
98 9.6 7.6 11.4





#37
Trichloroethene
Concen: 49.545 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

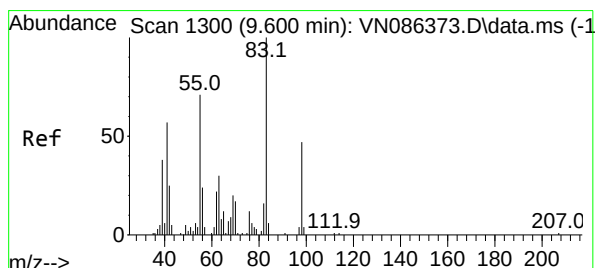
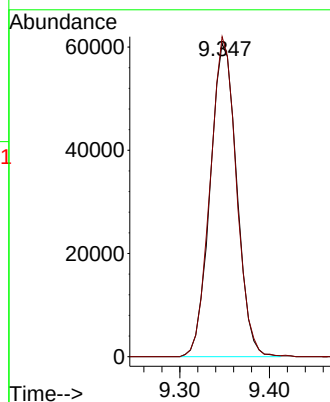
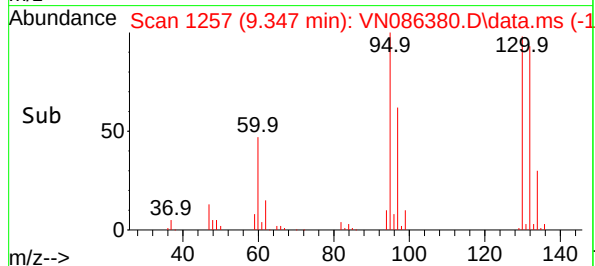
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:130 Resp: 124838
Ion Ratio Lower Upper
130 100
95 102.2 86.6 130.0

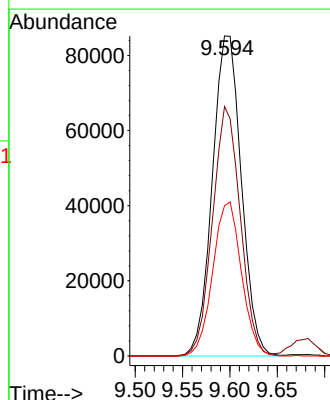
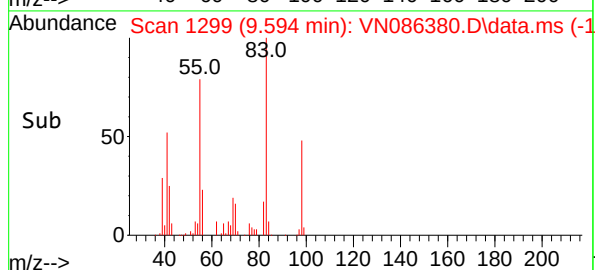
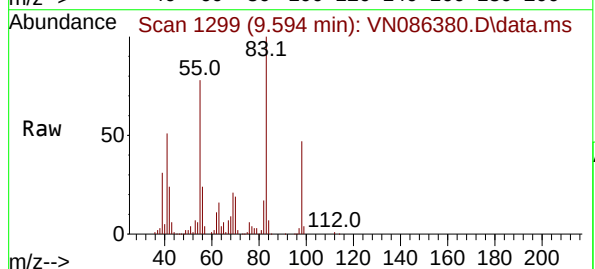
Manual Integrations
APPROVED

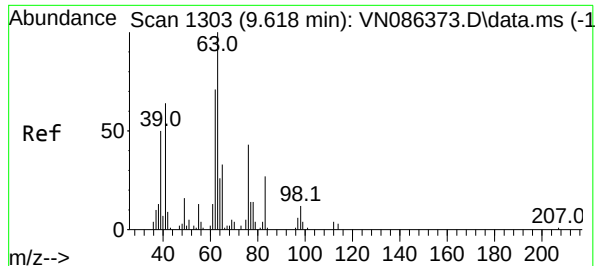
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#38
Methylcyclohexane
Concen: 49.617 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 83 Resp: 181341
Ion Ratio Lower Upper
83 100
55 74.8 37.3 111.9
98 47.6 23.8 71.5





#39

1,2-Dichloropropane

Concen: 48.383 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 120300

Ion Ratio Lower Upper

63 100

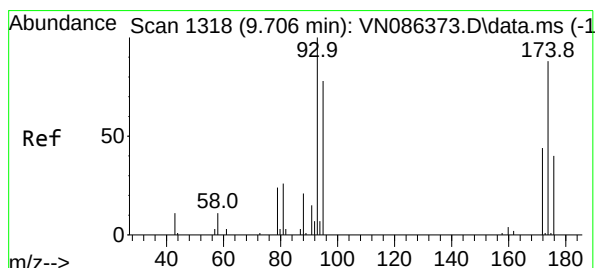
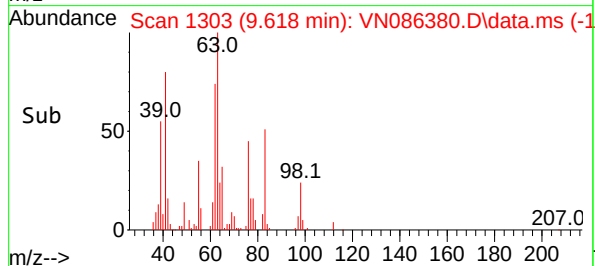
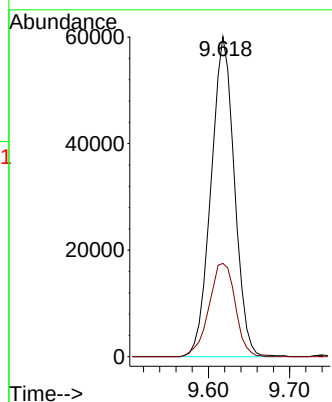
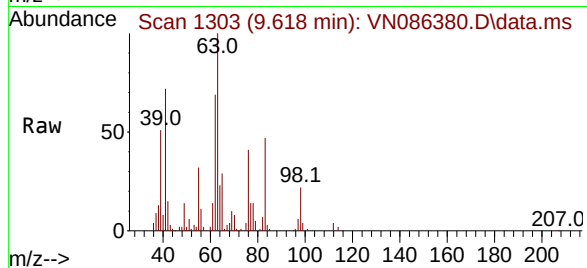
65 29.1 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 48.459 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

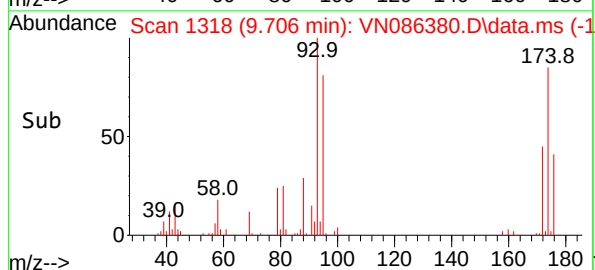
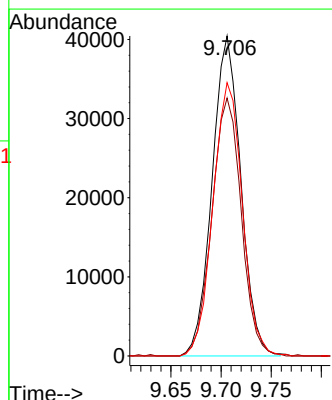
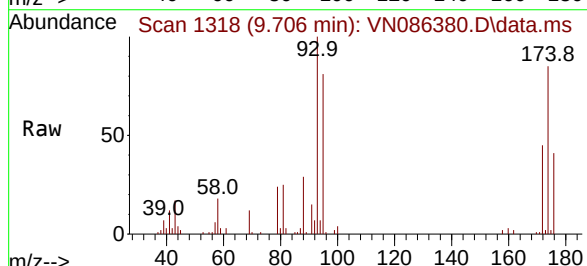
Tgt Ion: 93 Resp: 80581

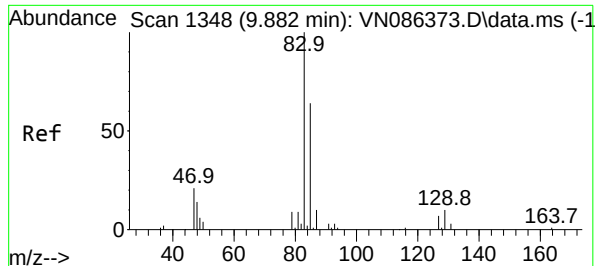
Ion Ratio Lower Upper

93 100

95 82.4 0.0 159.2

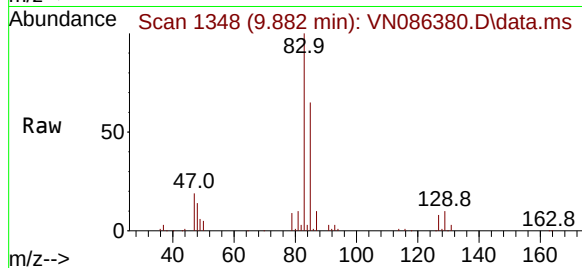
174 87.3 0.0 171.4





#41
Bromodichloromethane
Concen: 49.189 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

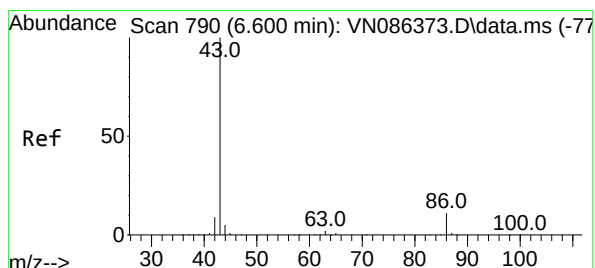
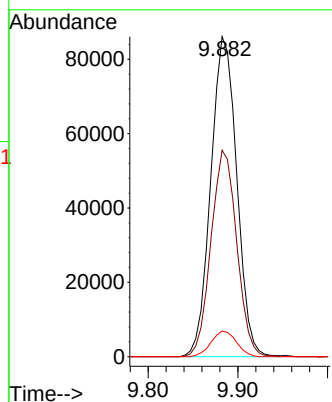
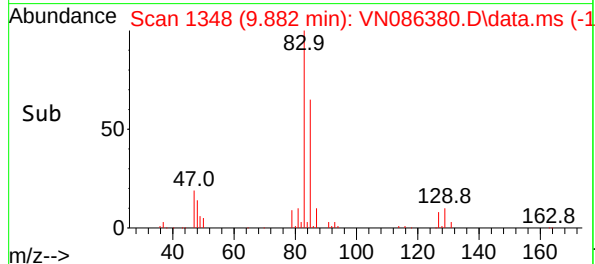
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 83 Resp: 17309
Ion Ratio Lower Upper
83 100
85 64.5 51.1 76.7
127 8.0 5.9 8.9

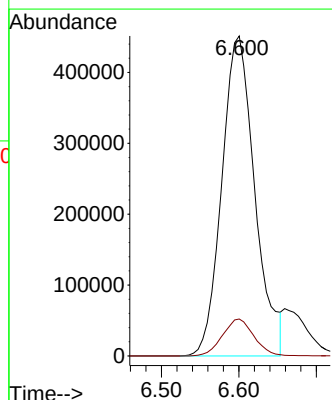
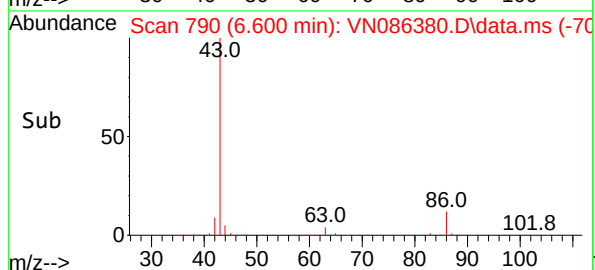
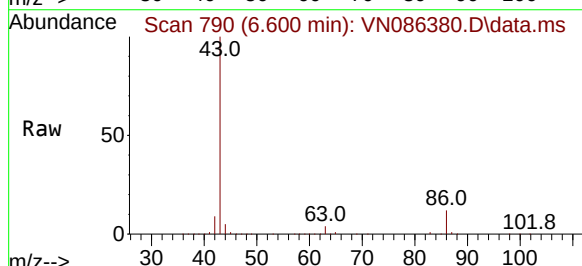
Manual Integrations
APPROVED

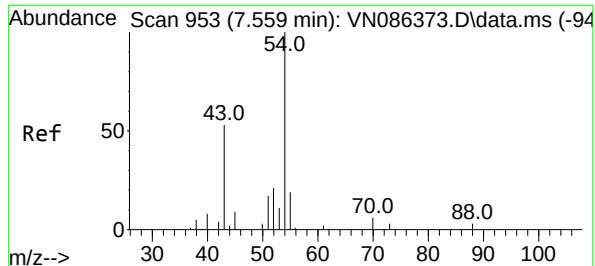
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 251.508 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 43 Resp: 1338201
Ion Ratio Lower Upper
43 100
86 11.0 8.9 13.3





#43

Ethyl Acetate

Concen: 47.469 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 14428

Ion Ratio Lower Upper

43 100

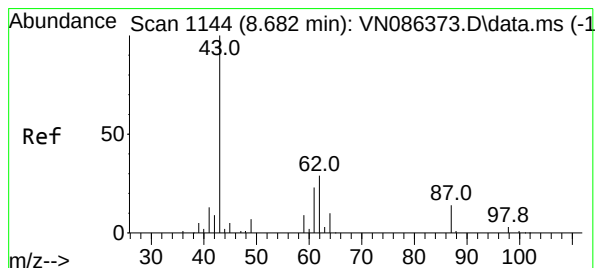
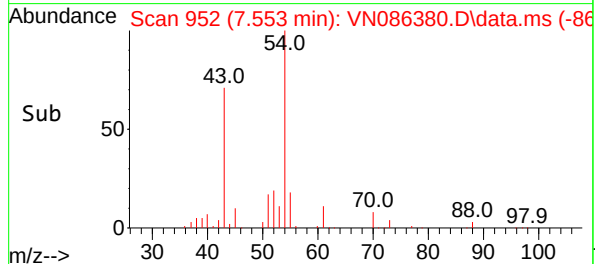
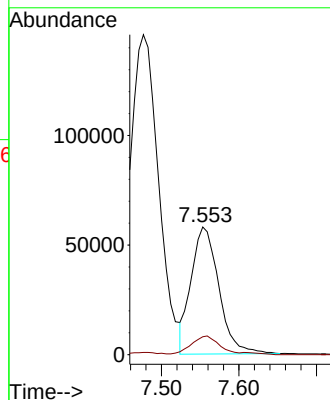
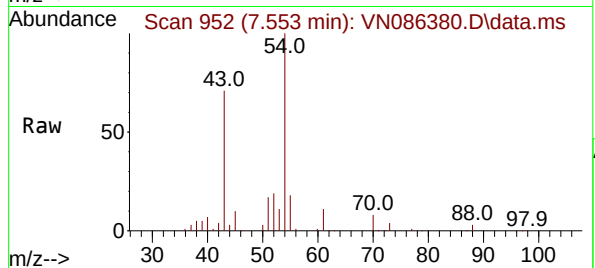
45 13.6 11.4 17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 48.670 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086380.D

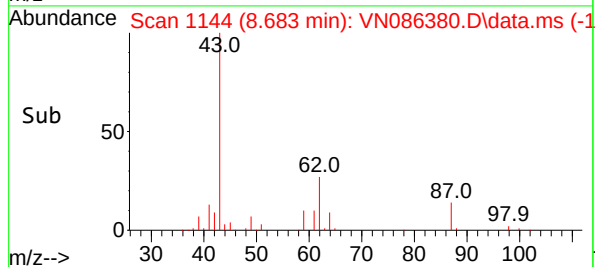
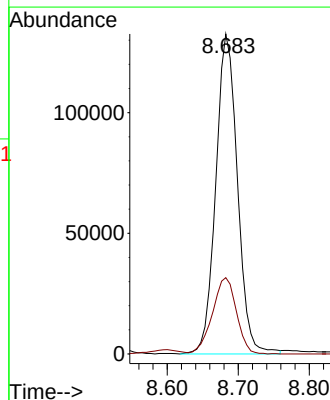
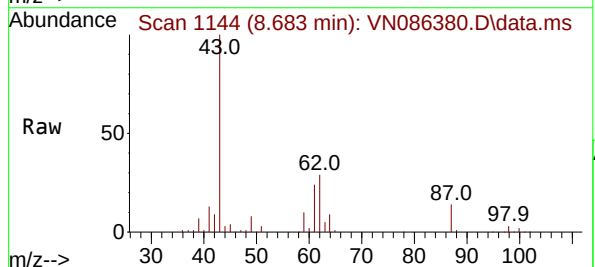
Acq: 23 Apr 2025 13:17

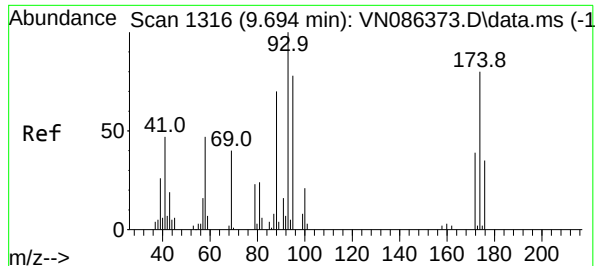
Tgt Ion: 43 Resp: 280778

Ion Ratio Lower Upper

43 100

61 26.4 21.0 31.4





#45

1,4-Dioxane

Concen: 1022.574 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

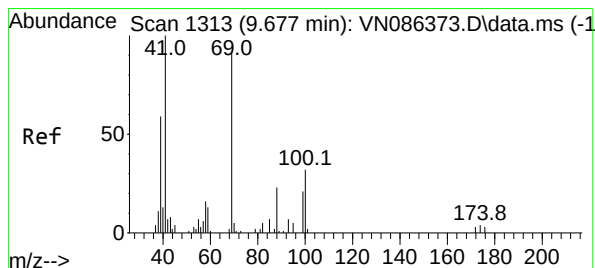
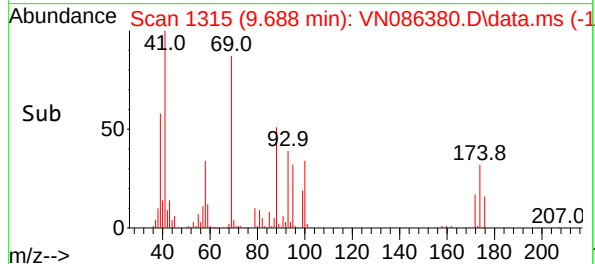
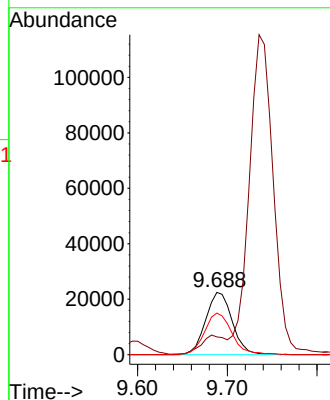
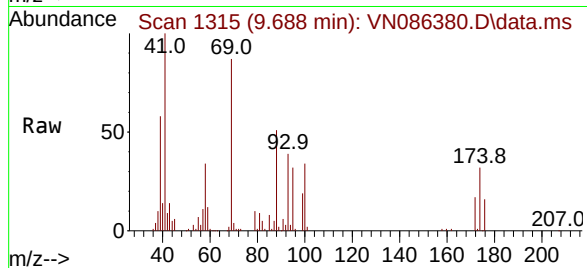
Tgt Ion:	88	Resp:	4602
Ion	Ratio	Lower	Upper
88	100		
43	28.1	24.9	37.3
58	69.4	57.8	86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 49.330 ug/l

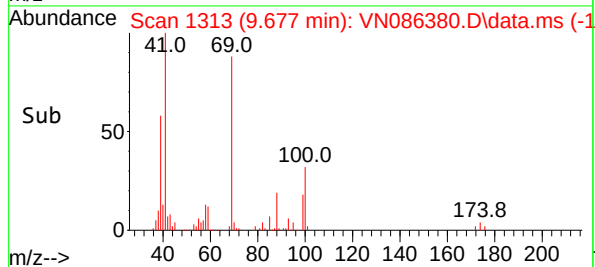
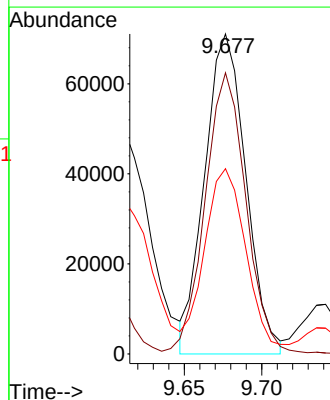
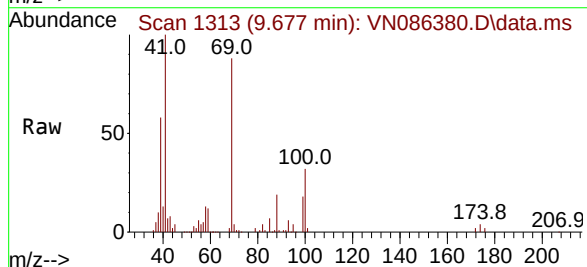
RT: 9.677 min Scan# 1313

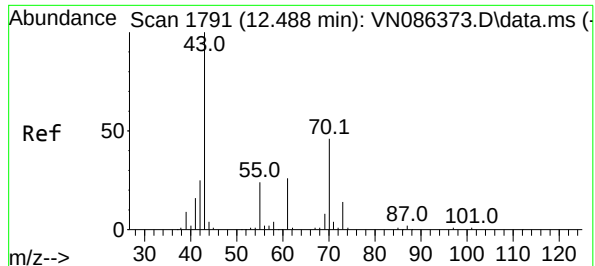
Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Tgt Ion:	41	Resp:	131270
Ion	Ratio	Lower	Upper
41	100		
69	89.1	44.1	132.3
39	57.2	30.0	90.1





#47

n-amyl Acetate

Concen: 48.807 ug/l

RT: 12.488 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 43 Resp: 23998

Ion Ratio Lower Upper

43 100

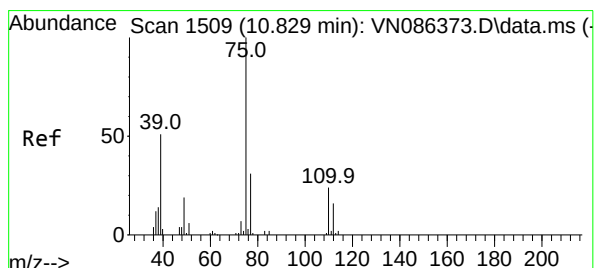
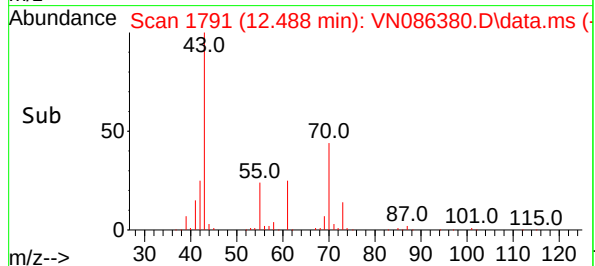
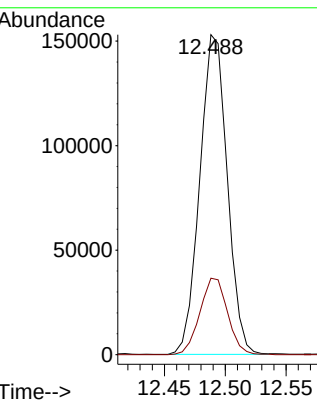
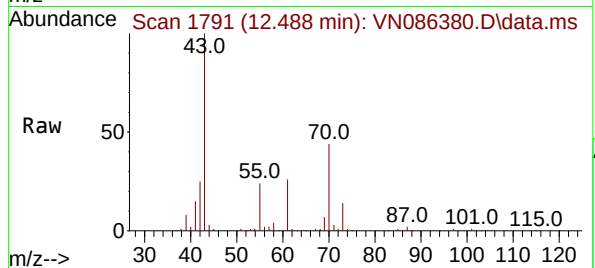
55 24.2 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#48

t-1,3-Dichloropropene

Concen: 48.936 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.006 min

Lab File: VN086380.D

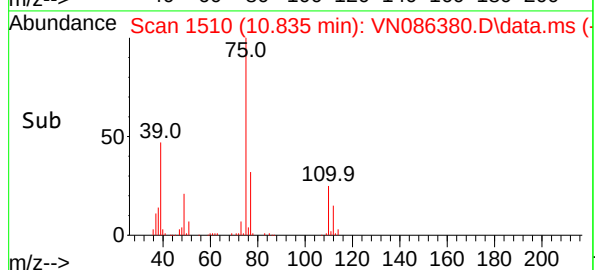
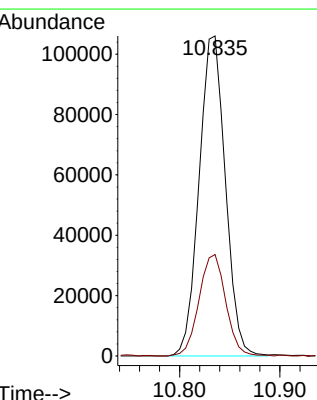
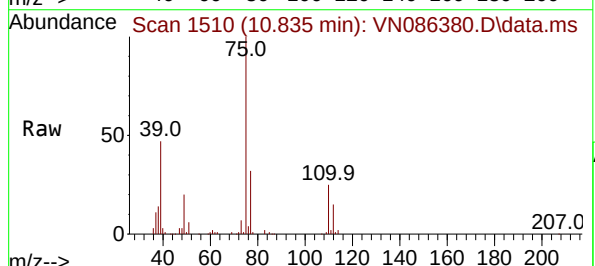
Acq: 23 Apr 2025 13:17

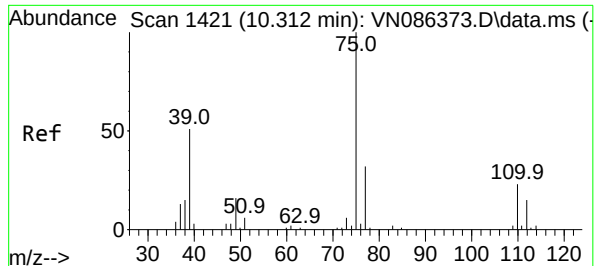
Tgt Ion: 75 Resp: 192520

Ion Ratio Lower Upper

75 100

77 31.7 24.4 36.6





#49

cis-1,3-Dichloropropene

Concen: 49.162 ug/l

RT: 10.306 min Scan# 1421

Delta R.T. -0.006 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 20396

Ion Ratio Lower Upper

75 100

77 32.3 25.6 38.4

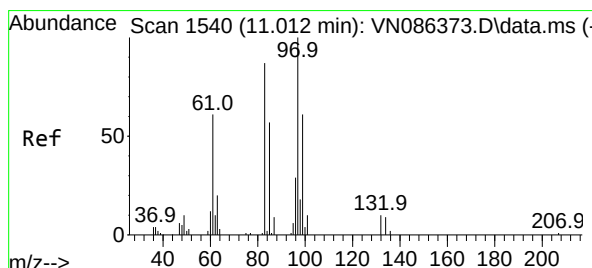
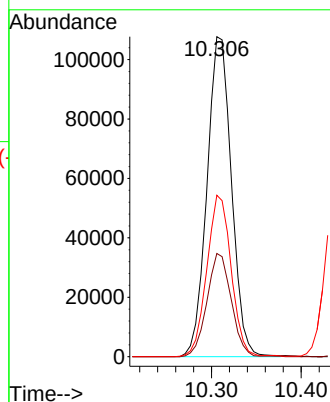
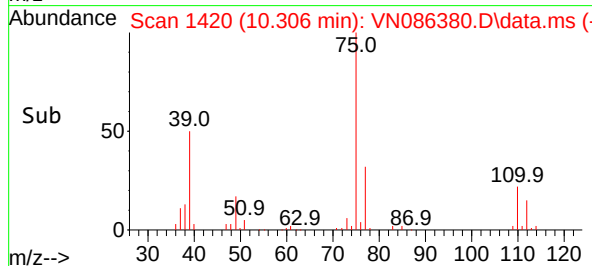
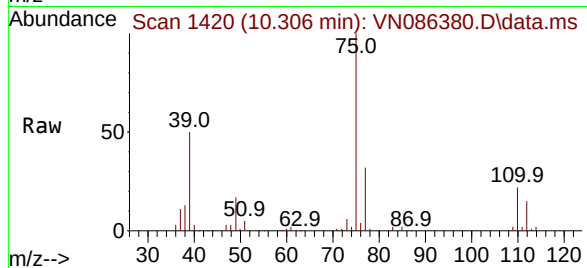
39 50.3 40.6 60.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#50

1,1,2-Trichloroethane

Concen: 48.624 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Tgt Ion: 97 Resp: 112938

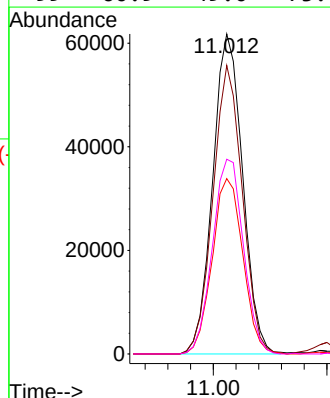
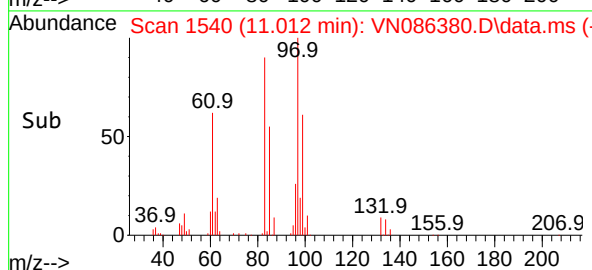
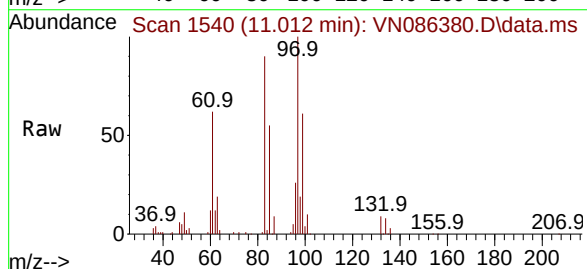
Ion Ratio Lower Upper

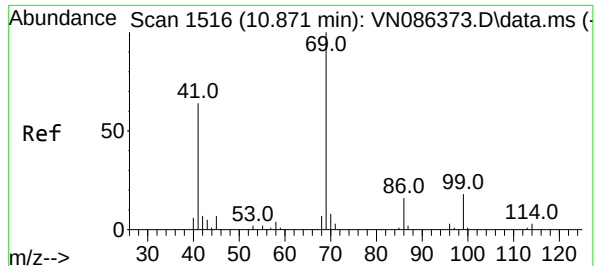
97 100

83 90.1 69.3 103.9

85 54.8 45.5 68.3

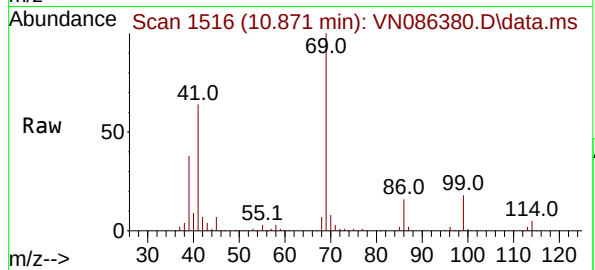
99 60.9 49.0 73.6





#51
Ethyl methacrylate
Concen: 49.636 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

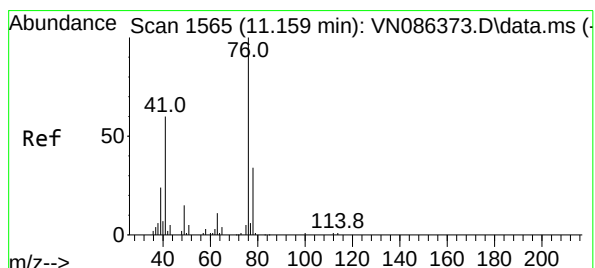
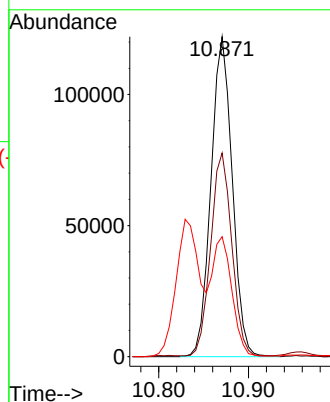
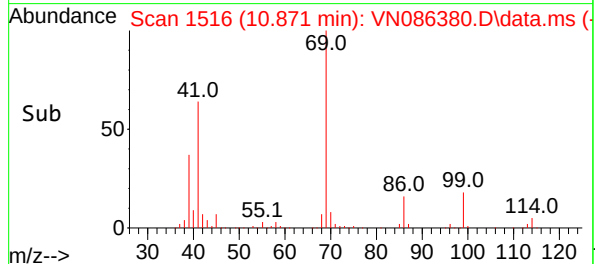
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 69 Resp: 200784
Ion Ratio Lower Upper
69 100
41 63.4 32.3 96.8
39 37.3 19.1 57.1

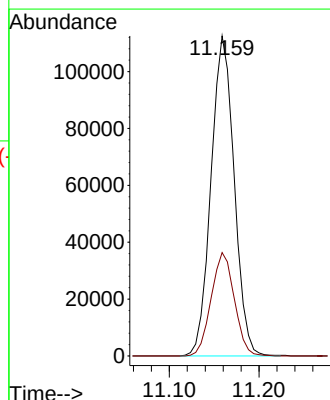
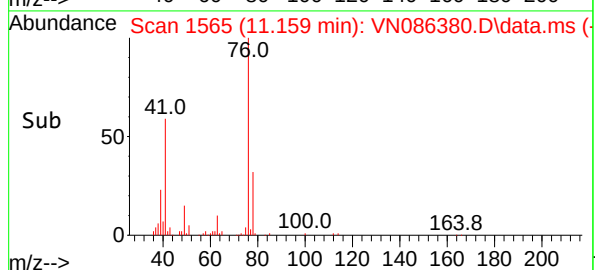
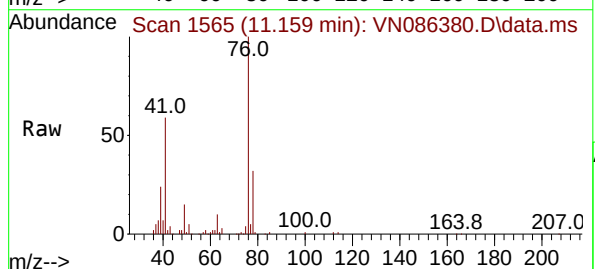
Manual Integrations
APPROVED

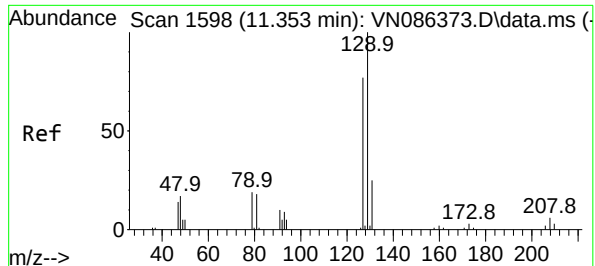
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 49.100 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

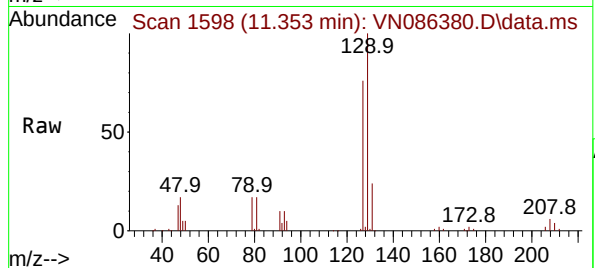
Tgt Ion: 76 Resp: 201557
Ion Ratio Lower Upper
76 100
78 32.3 0.0 65.6





#53
Dibromochloromethane
Concen: 49.346 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

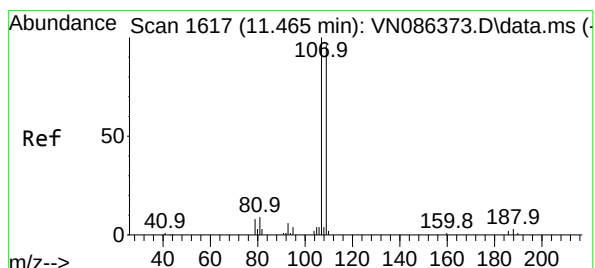
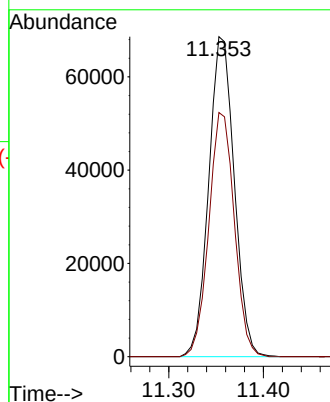
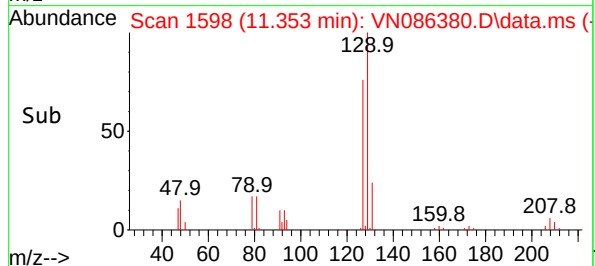
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



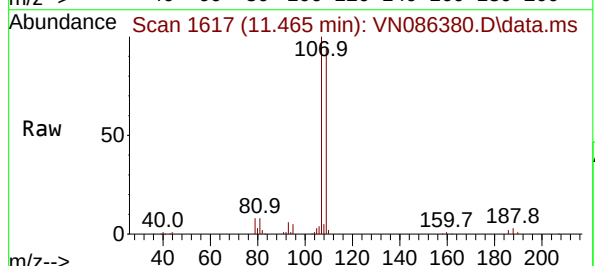
Tgt Ion:129 Resp: 128697
Ion Ratio Lower Upper
129 100
127 76.0 38.8 116.3

Manual Integrations
APPROVED

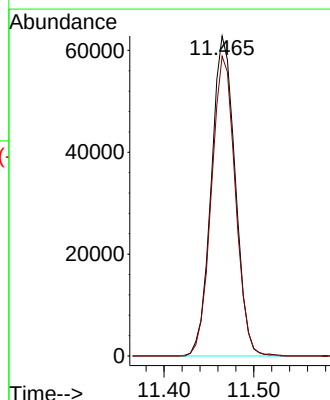
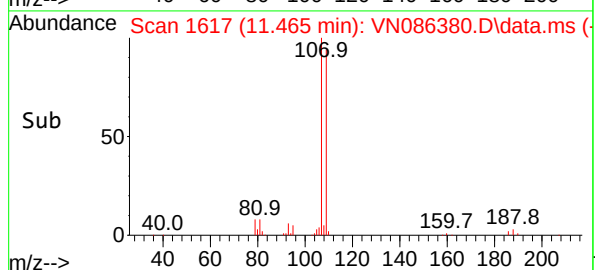
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

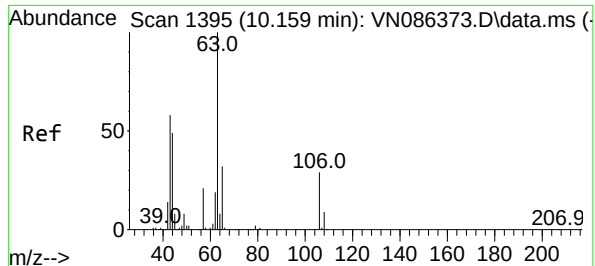


#54
1,2-Dibromoethane
Concen: 49.058 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17



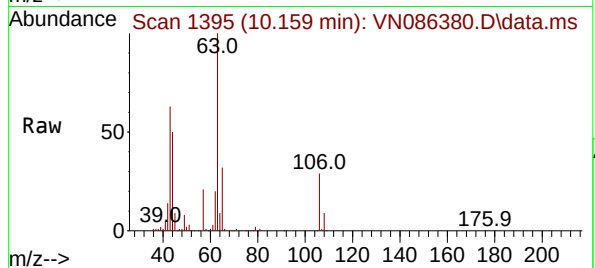
Tgt Ion:107 Resp: 115855
Ion Ratio Lower Upper
107 100
109 93.6 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 247.901 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

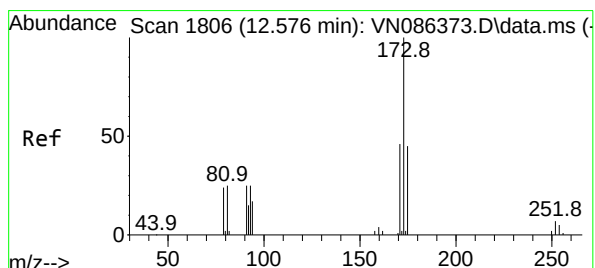
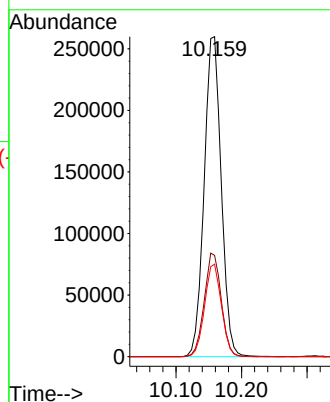
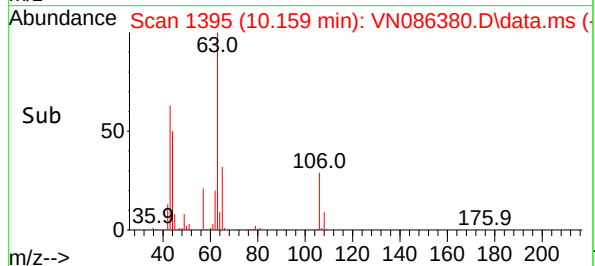
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 63 Resp: 471468
Ion Ratio Lower Upper
63 100
65 32.2 25.7 38.5
106 28.6 22.3 33.5

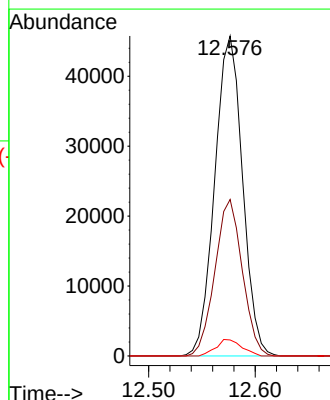
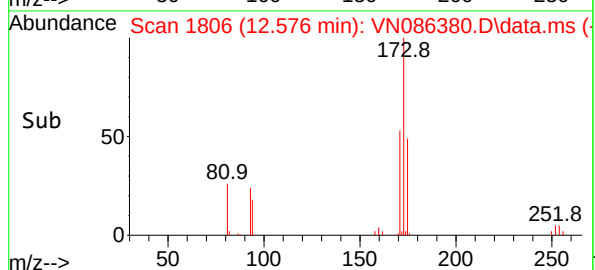
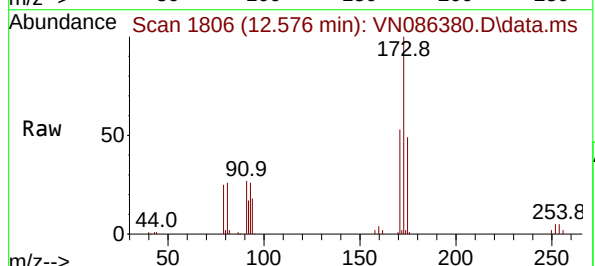
Manual Integrations
APPROVED

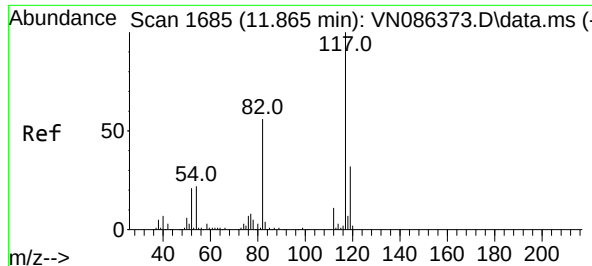
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 49.022 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

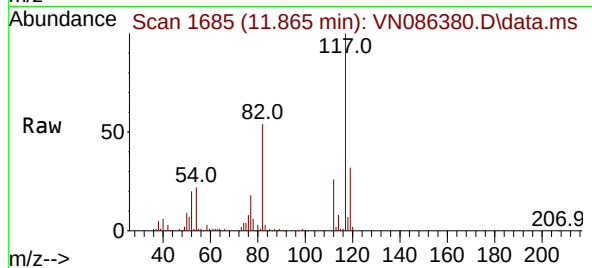
Tgt Ion:173 Resp: 82968
Ion Ratio Lower Upper
173 100
175 48.1 39.0 58.6
254 4.8 3.8 5.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

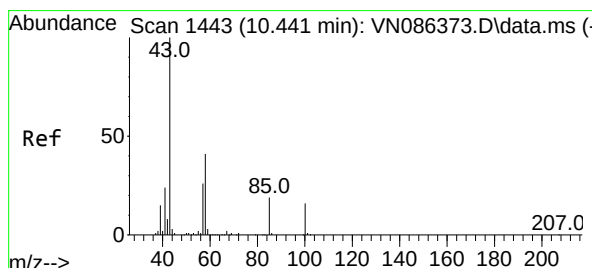
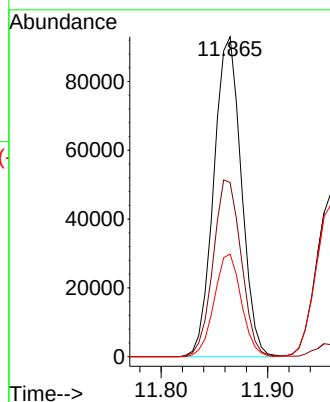
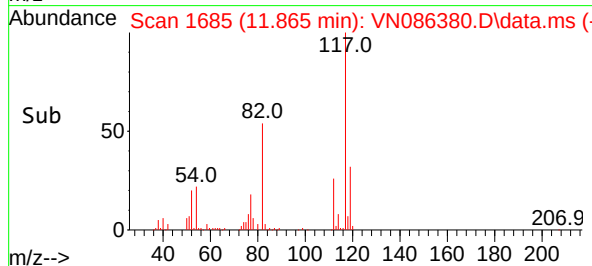
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 117 Resp: 166870
Ion Ratio Lower Upper
117 100
82 56.3 45.5 68.3
119 31.5 25.9 38.9

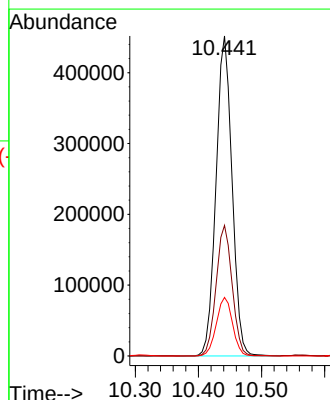
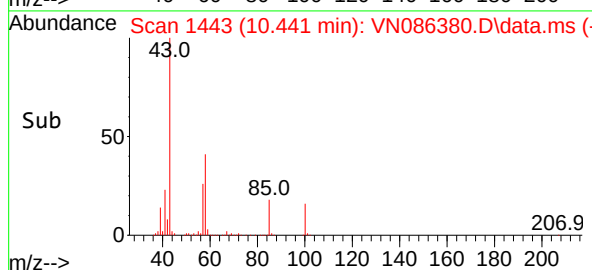
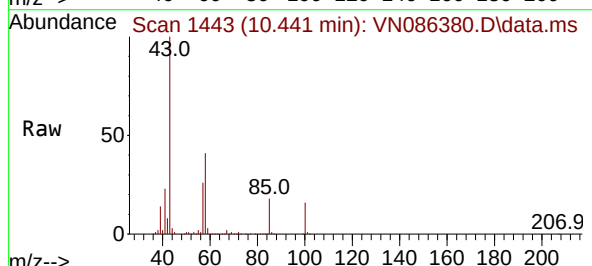
Manual Integrations
APPROVED

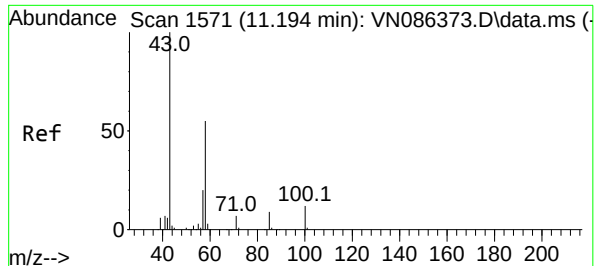
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 246.686 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

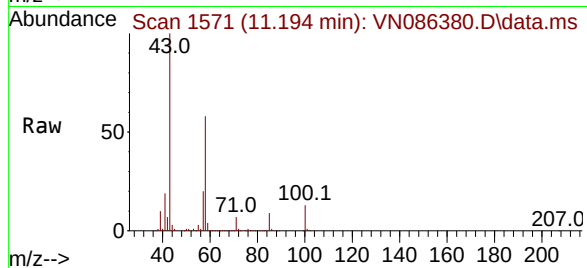
Tgt Ion: 43 Resp: 796619
Ion Ratio Lower Upper
43 100
58 40.8 33.0 49.6
85 18.5 14.9 22.3





#59
2-Hexanone
Concen: 245.533 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

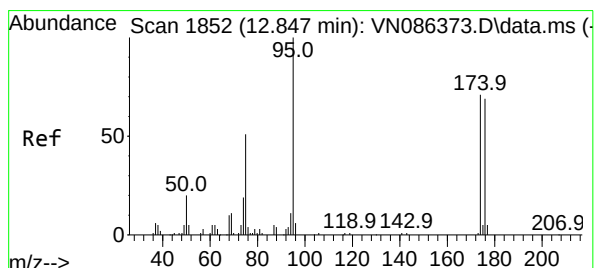
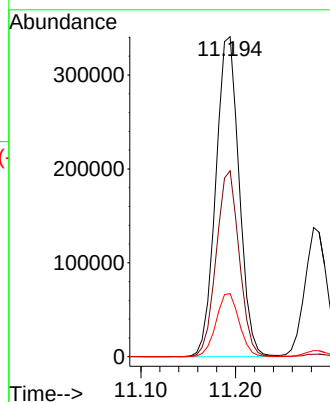
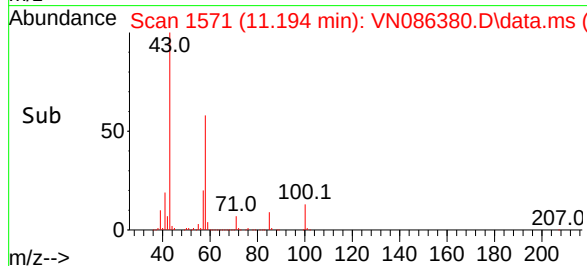
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



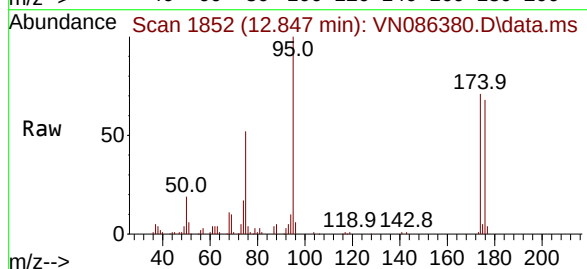
Tgt Ion: 43 Resp: 58430
Ion Ratio Lower Upper
43 100
58 57.2 45.0 67.6
57 19.7 15.5 23.3

Manual Integrations
APPROVED

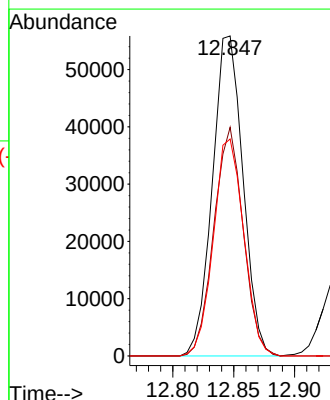
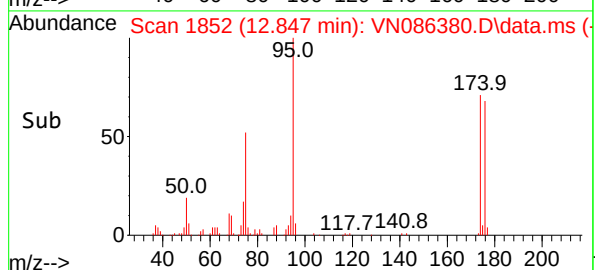
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

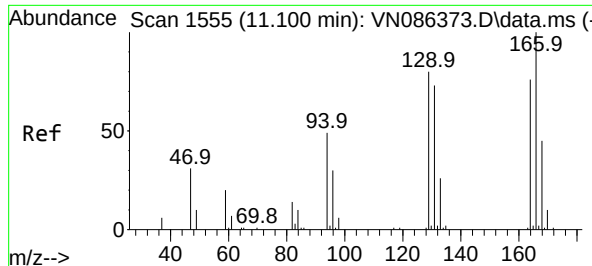


#60
4-Bromofluorobenzene
Concen: 29.770 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17



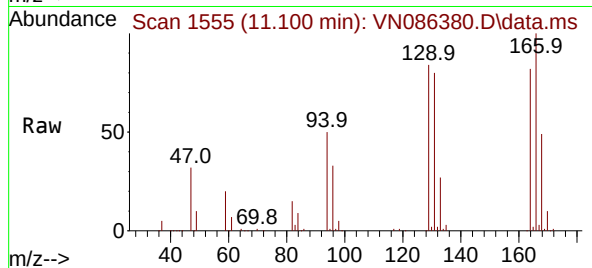
Tgt Ion: 95 Resp: 97641
Ion Ratio Lower Upper
95 100
174 68.4 56.6 84.8
176 67.4 53.3 79.9





#61
Tetrachloroethene
Concen: 48.223 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

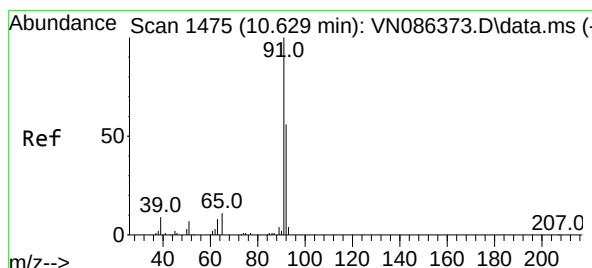
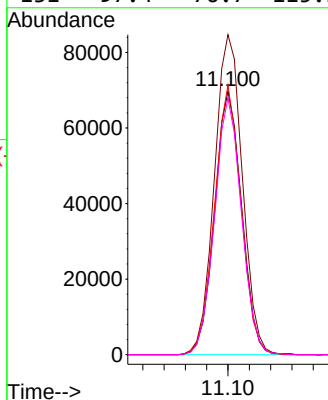
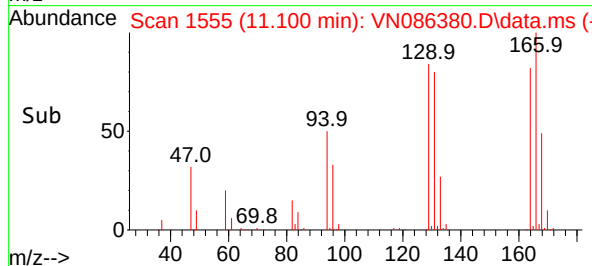
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:164 Resp: 122738
Ion Ratio Lower Upper
164 100
166 121.5 105.0 157.4
129 102.3 83.9 125.9
131 97.4 76.7 115.1

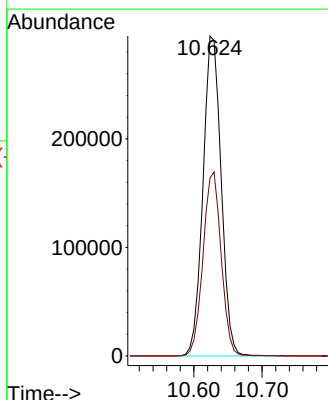
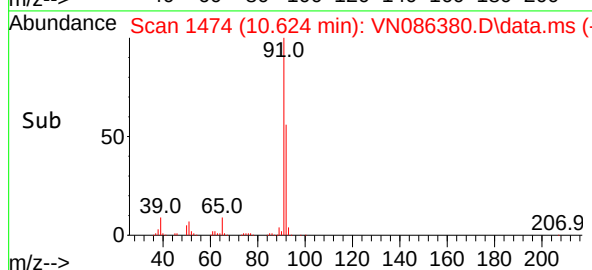
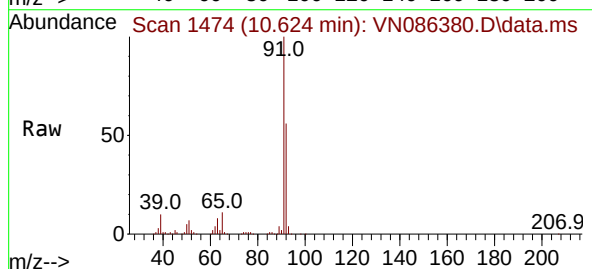
Manual Integrations
APPROVED

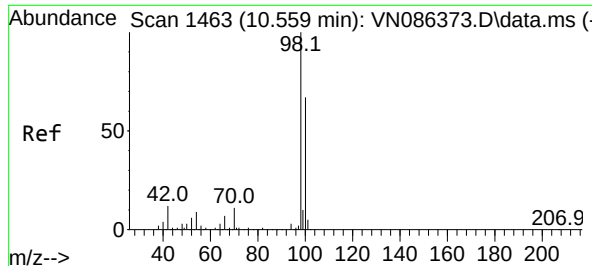
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#62
Toluene
Concen: 48.875 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

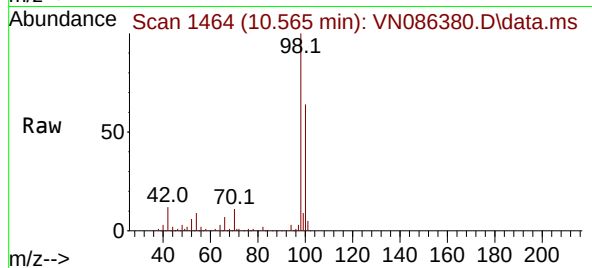
Tgt Ion: 91 Resp: 545929
Ion Ratio Lower Upper
91 100
92 57.3 45.7 68.5





#63
Toluene-d8
Concen: 30.090 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

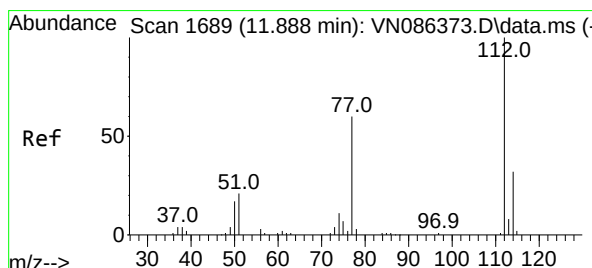
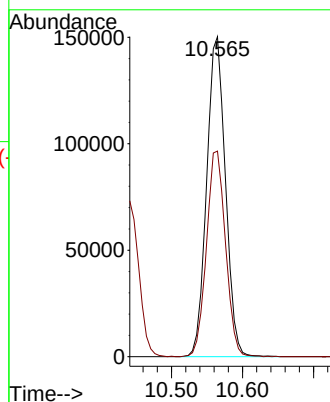
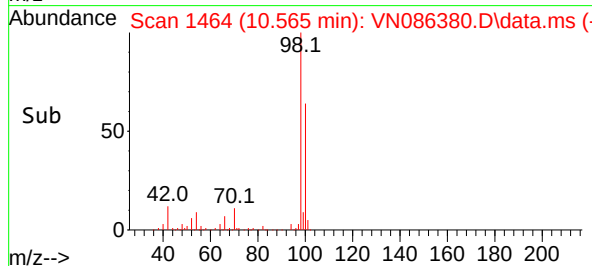
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 98 Resp: 276249
Ion Ratio Lower Upper
98 100
100 65.2 53.1 79.7

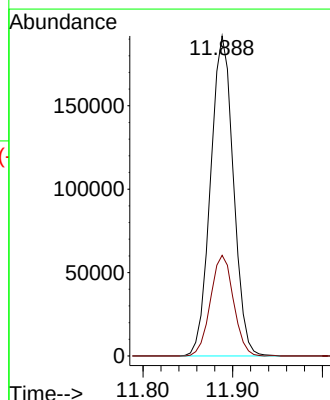
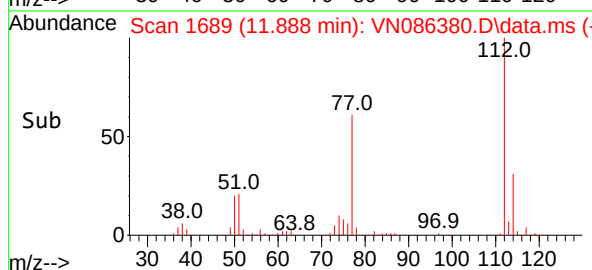
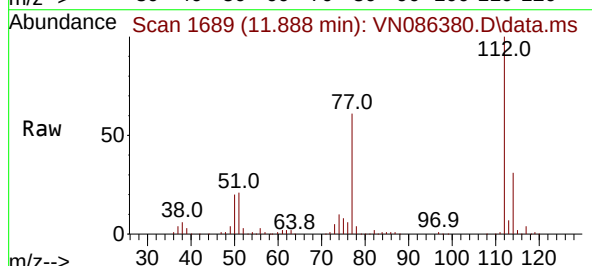
Manual Integrations
APPROVED

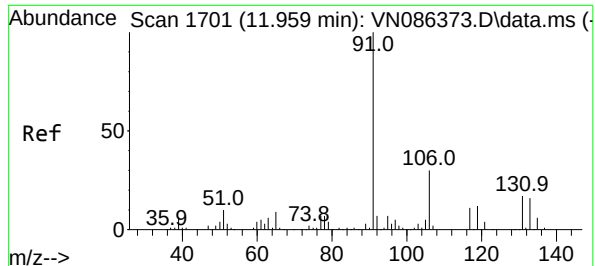
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 48.765 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

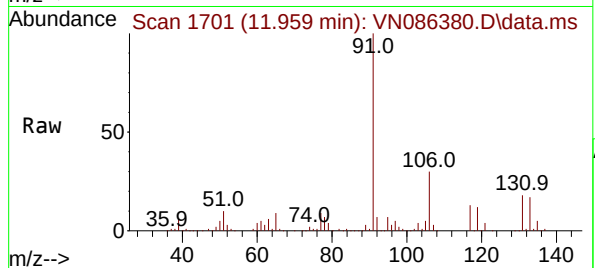
Tgt Ion:112 Resp: 339409
Ion Ratio Lower Upper
112 100
114 31.5 25.6 38.4





#65
1,1,1,2-Tetrachloroethane
Concen: 48.858 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

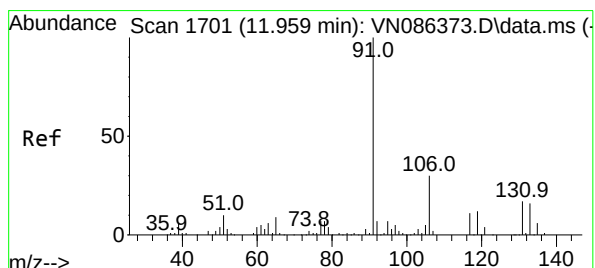
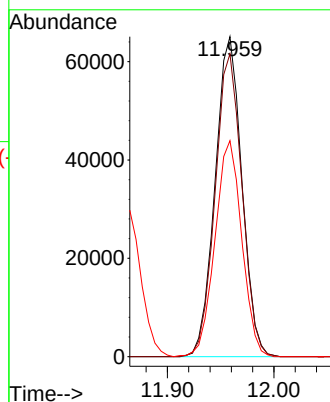
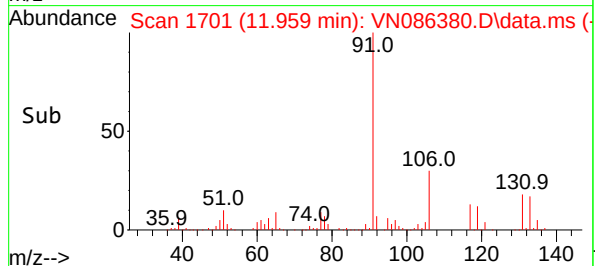
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:131 Resp: 113702
Ion Ratio Lower Upper
131 100
133 94.7 0.0 191.4
119 67.5 0.0 133.6

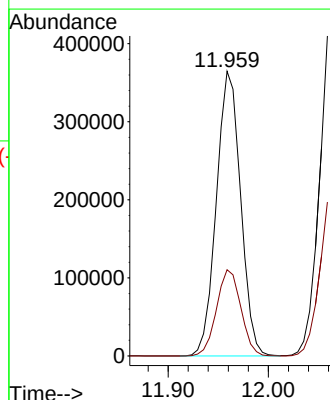
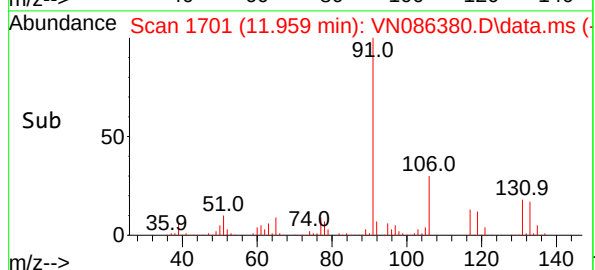
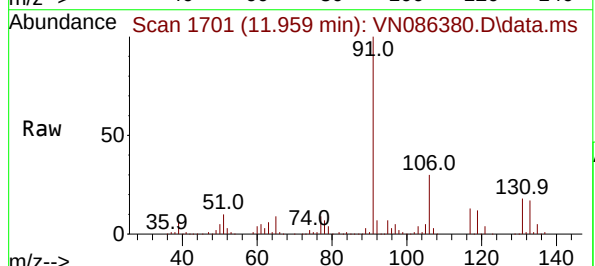
Manual Integrations
APPROVED

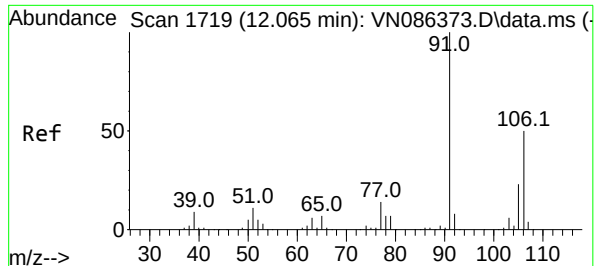
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#66
Ethyl Benzene
Concen: 48.707 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 91 Resp: 612399
Ion Ratio Lower Upper
91 100
106 30.3 24.3 36.5





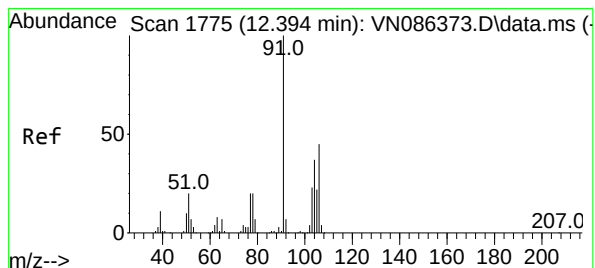
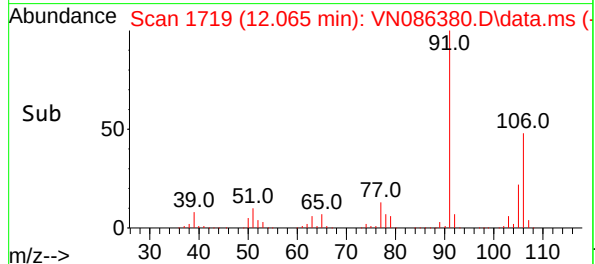
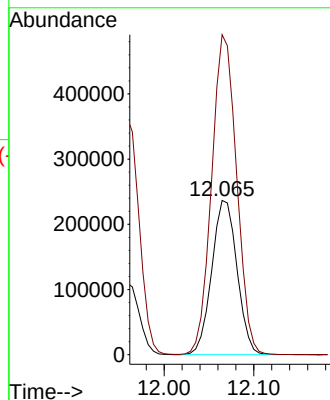
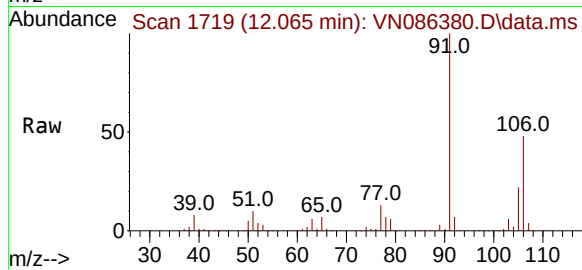
#67
m/p-Xylenes
Concen: 96.999 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:106 Resp: 46274
Ion Ratio Lower Upper
106 100
91 205.3 162.6 243.8

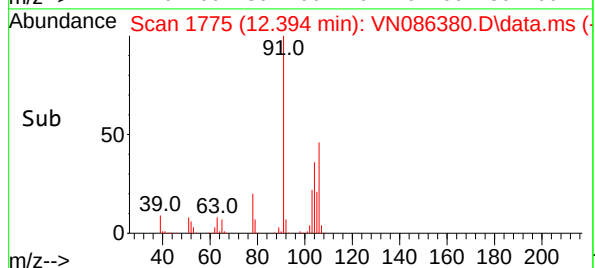
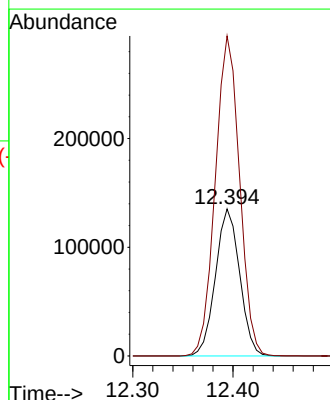
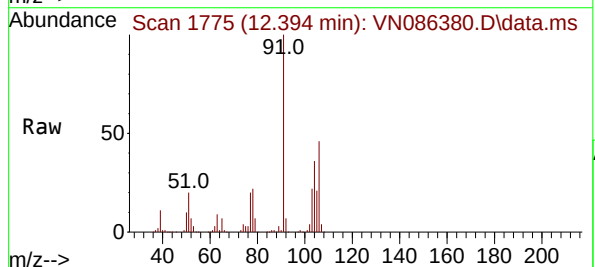
Manual Integrations
APPROVED

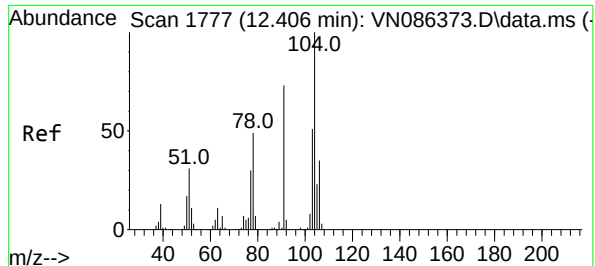
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 48.560 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion:106 Resp: 226822
Ion Ratio Lower Upper
106 100
91 218.5 110.6 331.6





#69

Styrene

Concen: 49.159 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:104 Resp: 389200

Ion Ratio Lower Upper

104 100

78 50.3 40.2 60.4

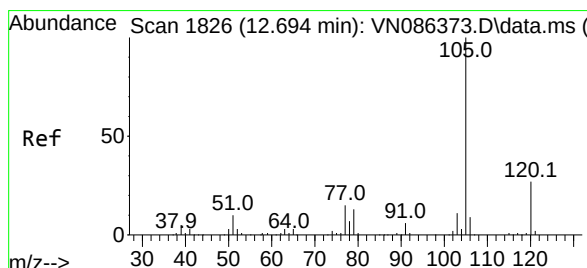
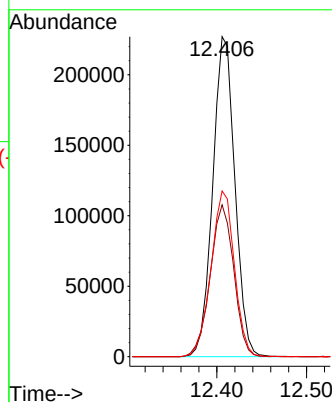
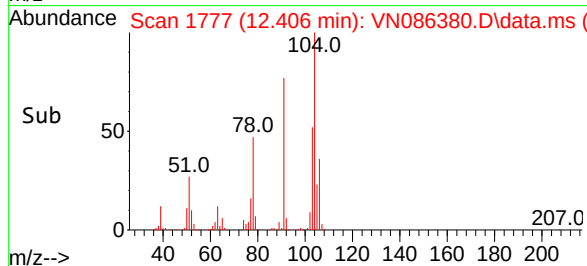
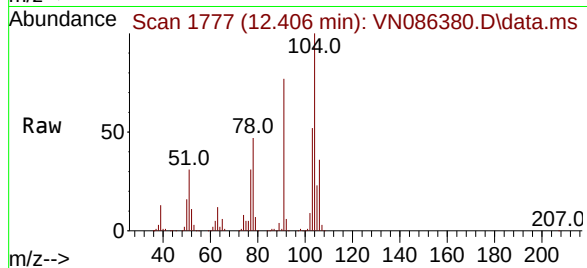
103 54.7 43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#70

Isopropylbenzene

Concen: 48.886 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086380.D

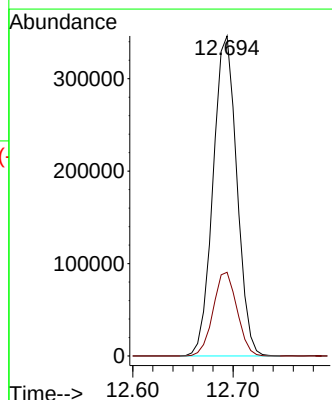
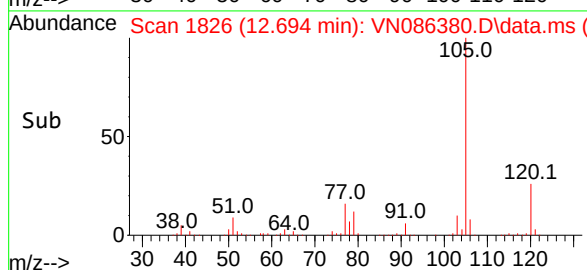
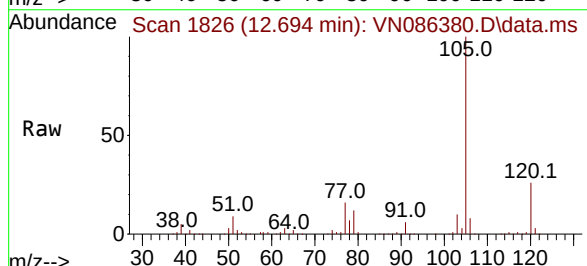
Acq: 23 Apr 2025 13:17

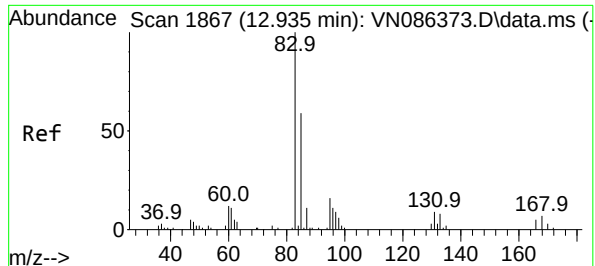
Tgt Ion:105 Resp: 570012

Ion Ratio Lower Upper

105 100

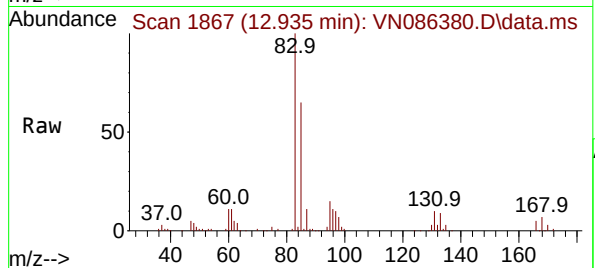
120 26.3 18.2 33.8





#71
1,1,2,2-Tetrachloroethane
Concen: 48.818 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

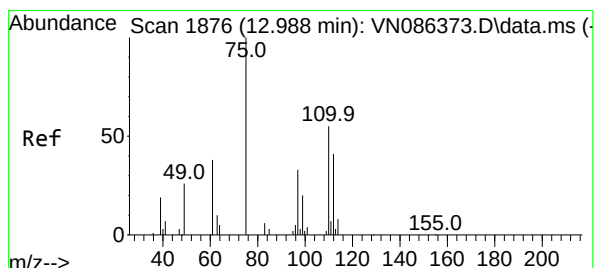
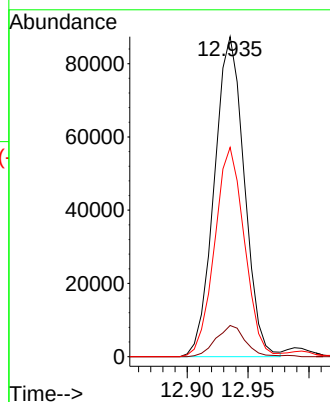
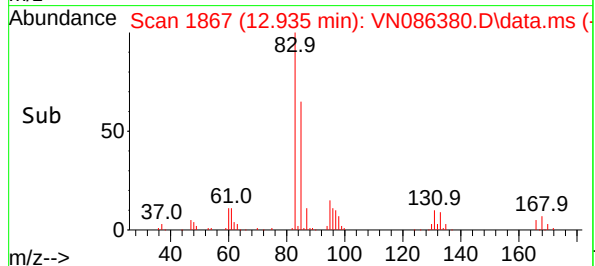
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 83 Resp: 149879
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.8 31.7 95.1

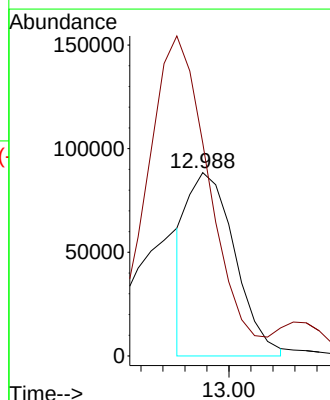
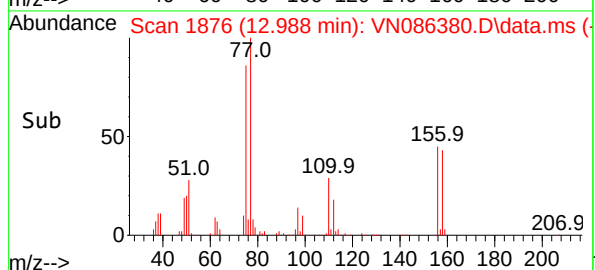
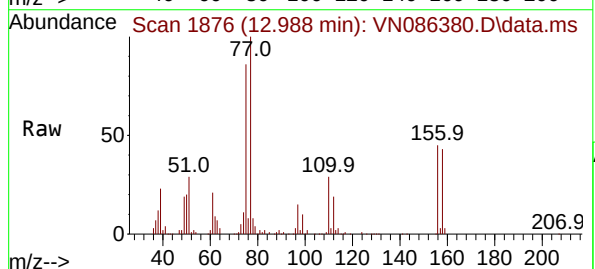
Manual Integrations
APPROVED

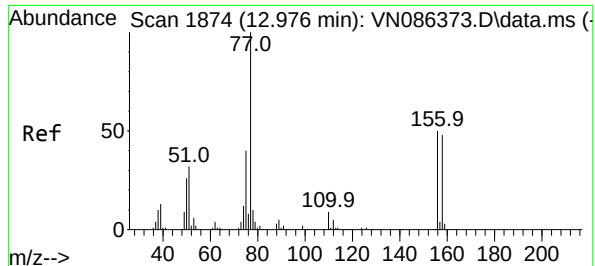
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 49.772 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

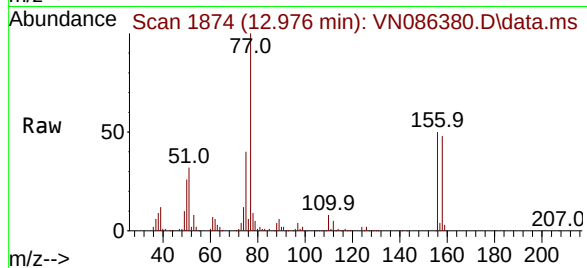
Tgt Ion: 75 Resp: 132411
Ion Ratio Lower Upper
75 100
77 231.7 0.0 464.4





#73
Bromobenzene
Concen: 49.022 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

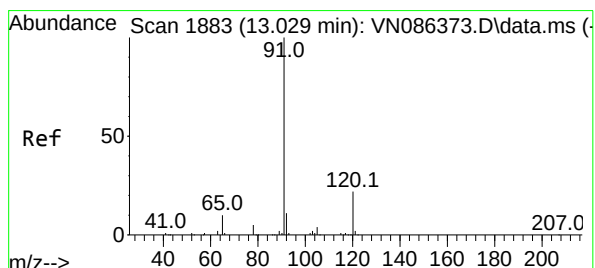
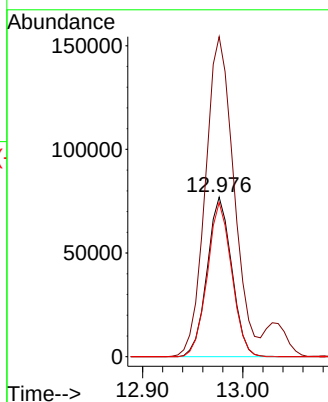
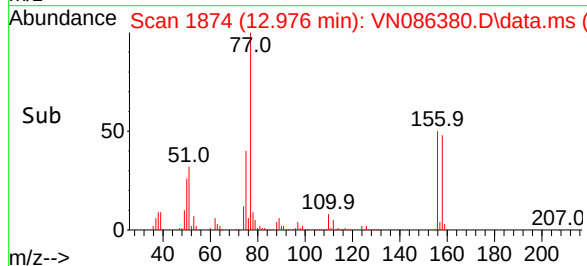
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:156 Resp: 131410
Ion Ratio Lower Upper
156 100
77 233.5 0.0 463.4
158 95.4 0.0 191.8

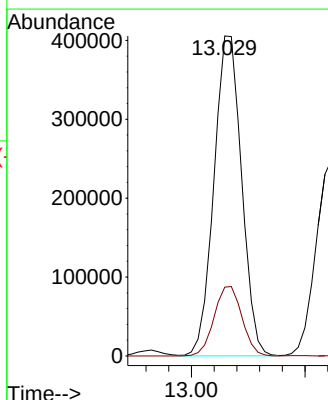
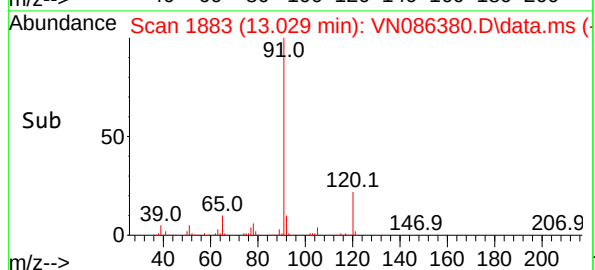
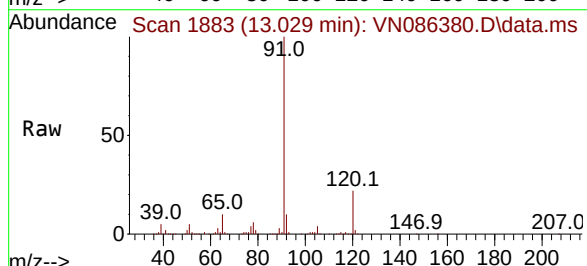
Manual Integrations
APPROVED

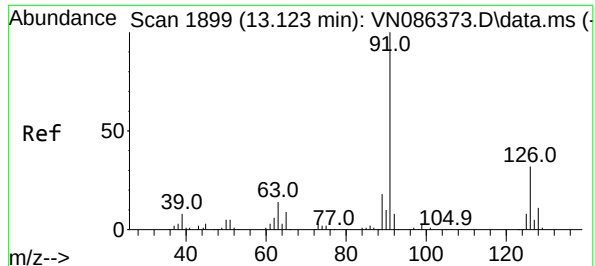
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 49.506 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 91 Resp: 685930
Ion Ratio Lower Upper
91 100
120 21.8 0.0 43.8





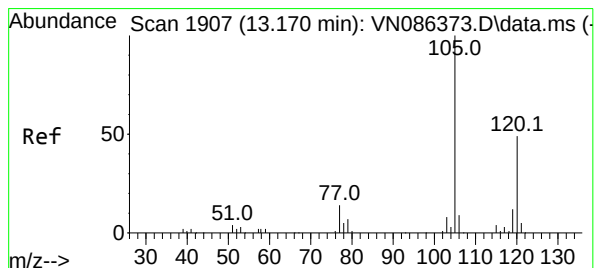
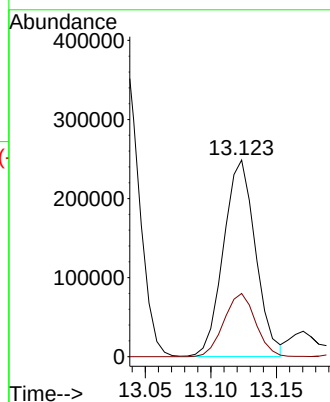
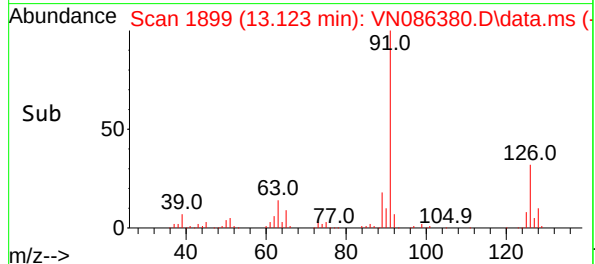
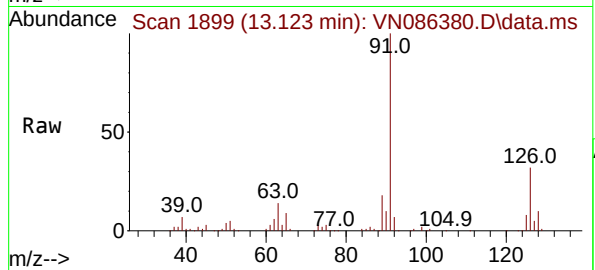
#75
2-Chlorotoluene
Concen: 48.900 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 91 Resp: 422950
Ion Ratio Lower Upper
91 100
126 31.7 0.0 65.0

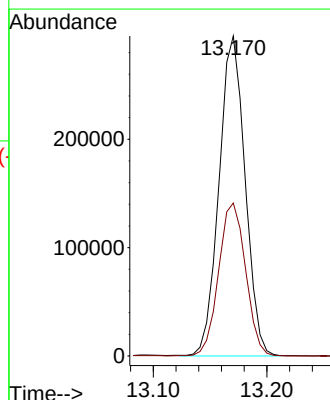
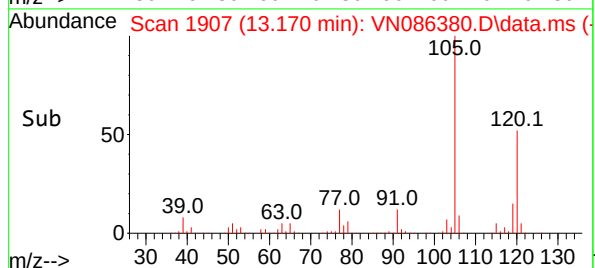
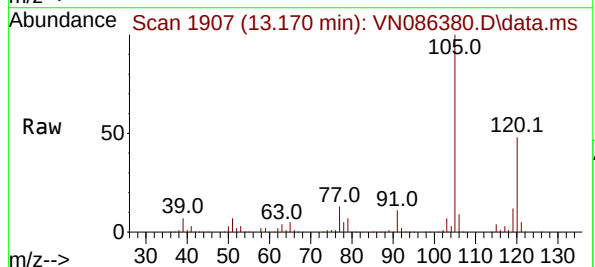
Manual Integrations
APPROVED

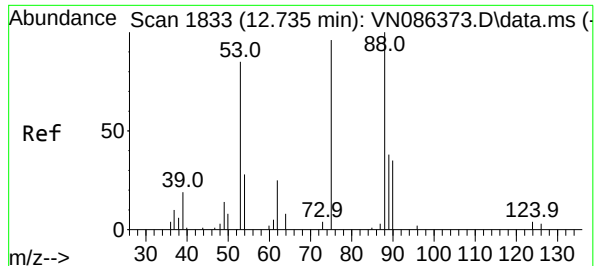
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 49.239 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

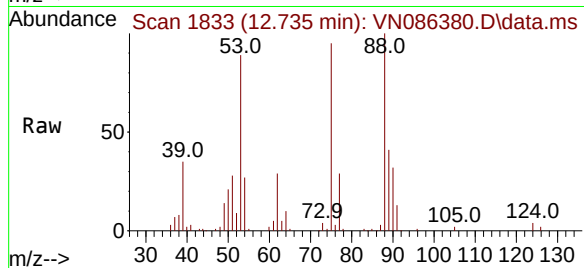
Tgt Ion:105 Resp: 471082
Ion Ratio Lower Upper
105 100
120 49.3 0.0 97.6





#77
t-1,4-Dichloro-2-butene
Concen: 48.728 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

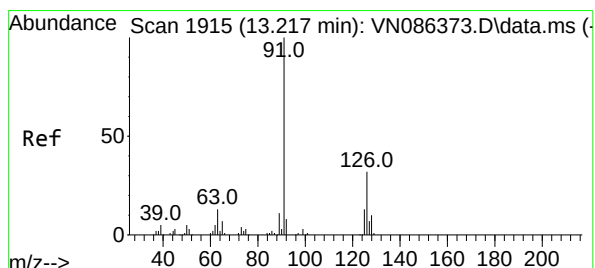
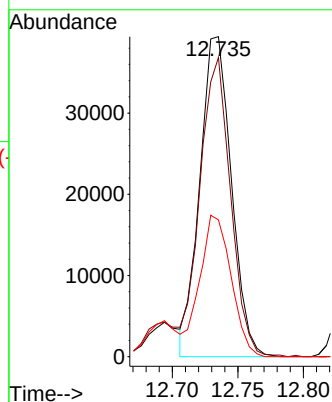
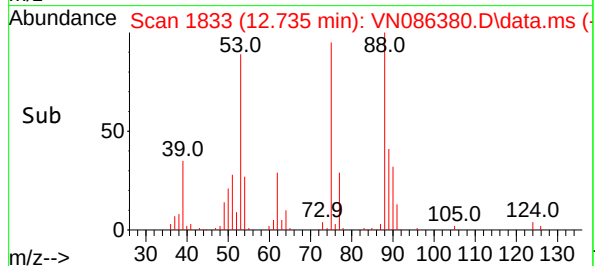
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 75 Resp: 66192
Ion Ratio Lower Upper
75 100
53 93.0 46.0 138.0
89 42.7 21.6 64.6

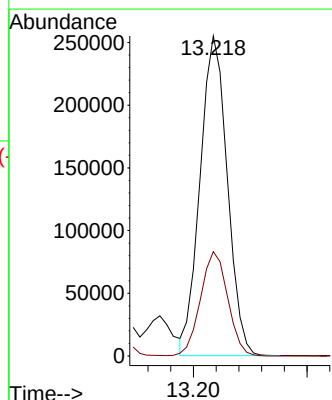
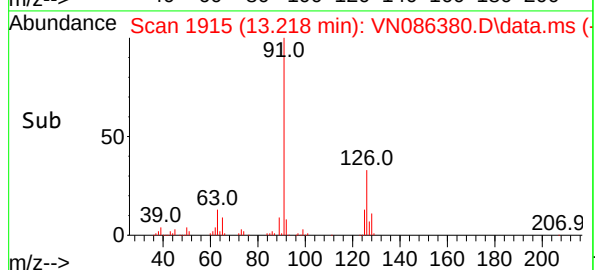
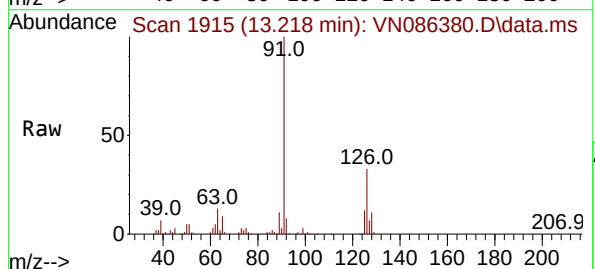
Manual Integrations
APPROVED

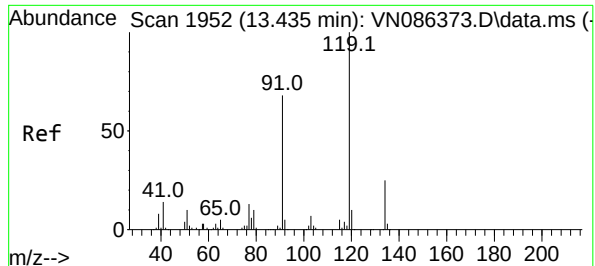
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#78
4-Chlorotoluene
Concen: 49.115 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion: 91 Resp: 424764
Ion Ratio Lower Upper
91 100
126 32.6 0.0 65.4





#79

tert-butylbenzene

Concen: 49.030 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:119 Resp: 401738

Ion Ratio Lower Upper

119 100

91 68.6 0.0 137.4

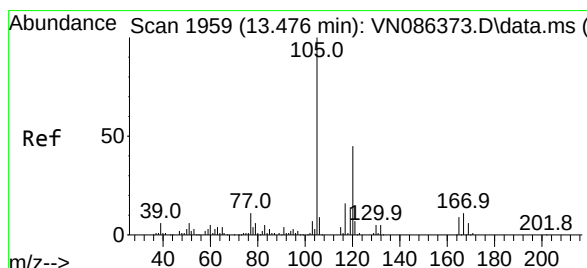
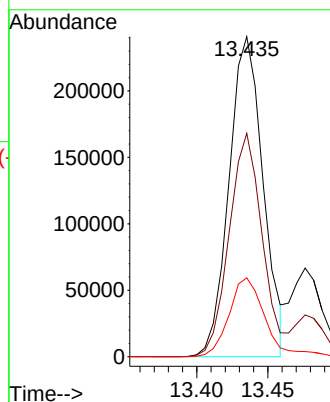
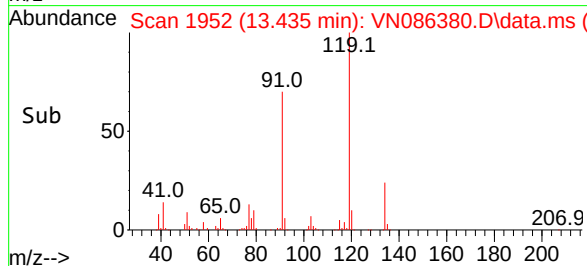
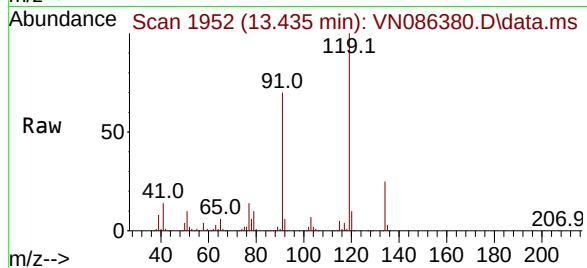
134 26.1 0.0 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#80

1,2,4-Trimethylbenzene

Concen: 49.278 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086380.D

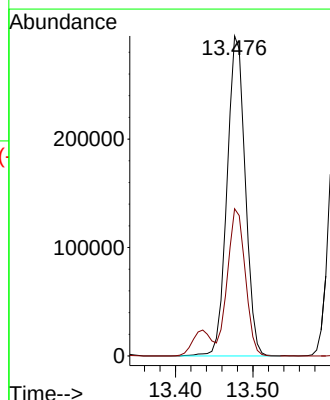
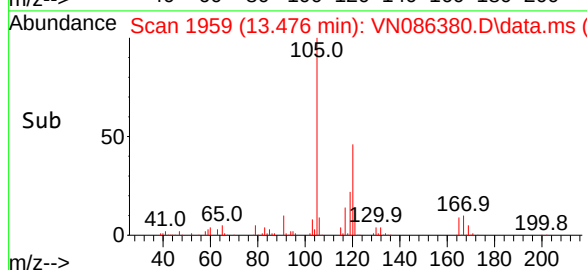
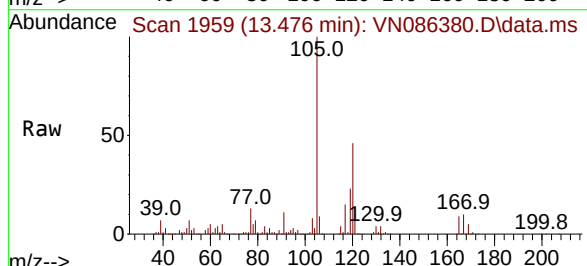
Acq: 23 Apr 2025 13:17

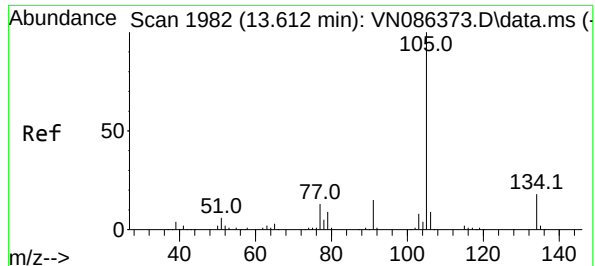
Tgt Ion:105 Resp: 481487

Ion Ratio Lower Upper

105 100

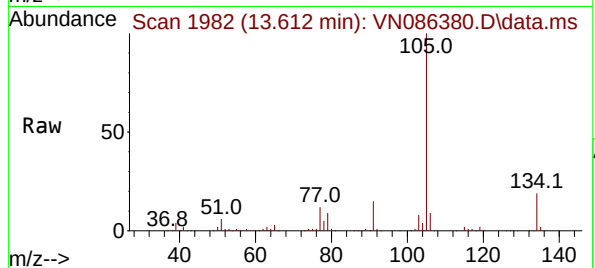
120 44.8 0.0 87.6





#81
sec-Butylbenzene
Concen: 49.282 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

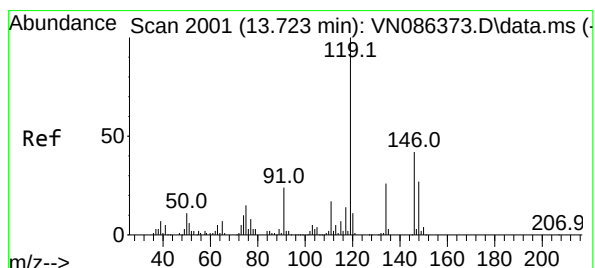
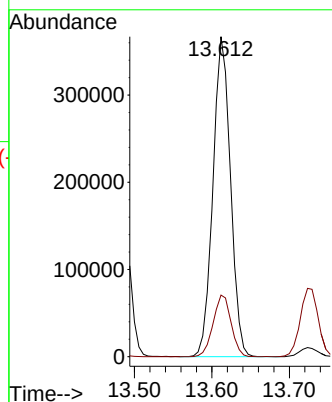
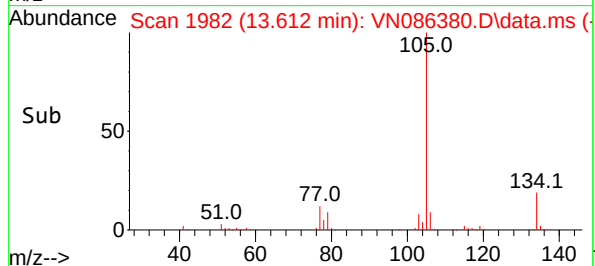
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:105 Resp: 57640
Ion Ratio Lower Upper
105 100
134 19.7 0.0 38.4

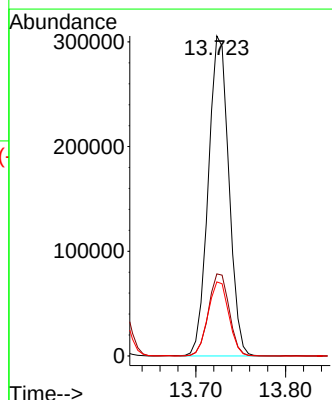
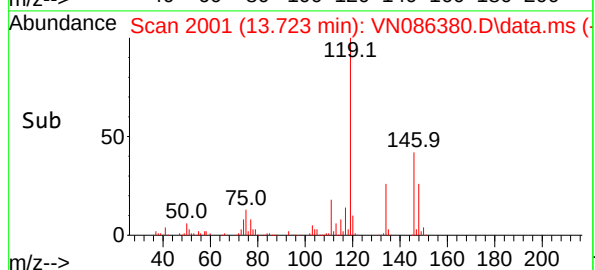
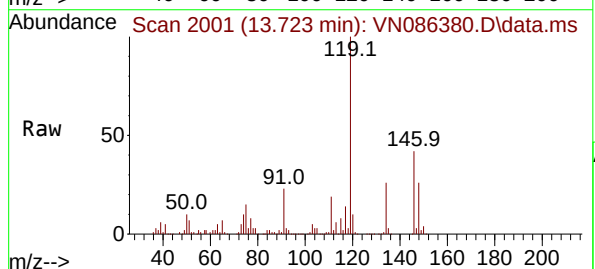
Manual Integrations
APPROVED

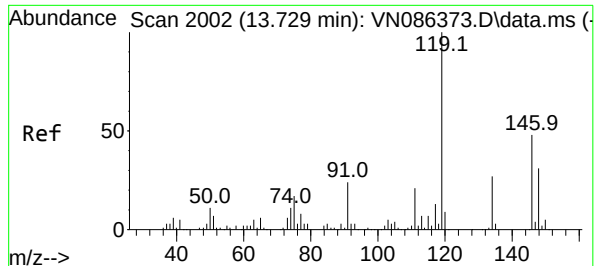
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#82
p-Isopropyltoluene
Concen: 49.693 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

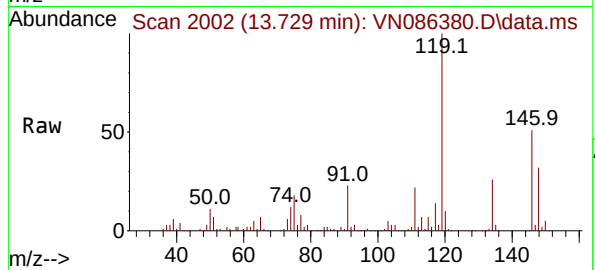
Tgt Ion:119 Resp: 486348
Ion Ratio Lower Upper
119 100
134 25.9 0.0 52.2
91 23.5 0.0 47.6





#83
1,3-Dichlorobenzene
Concen: 50.046 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

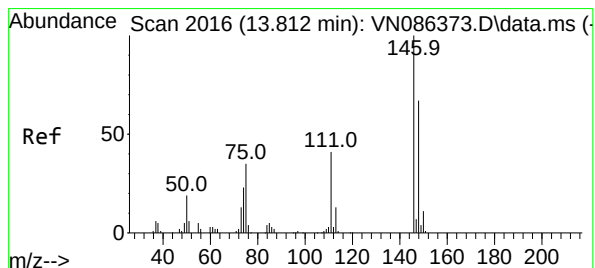
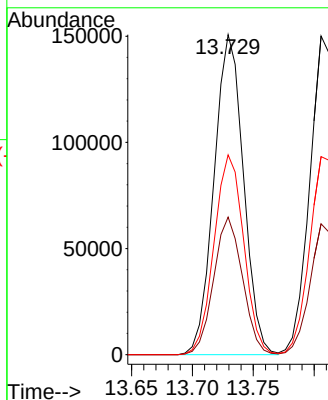
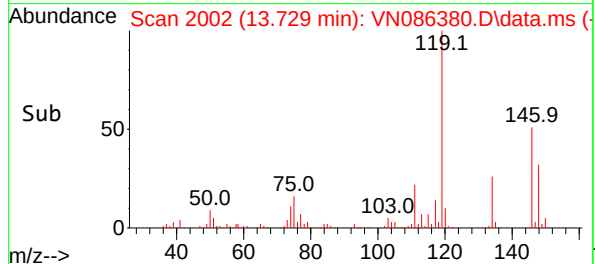
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:146 Resp: 253600
Ion Ratio Lower Upper
146 100
111 42.1 20.7 62.1
148 63.0 32.3 96.8

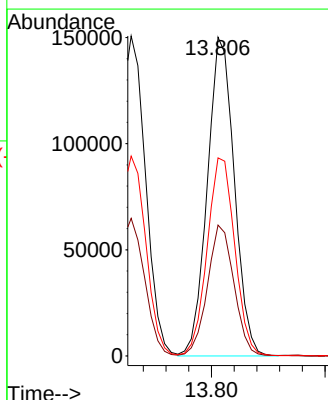
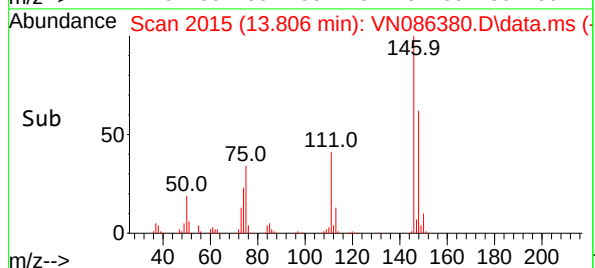
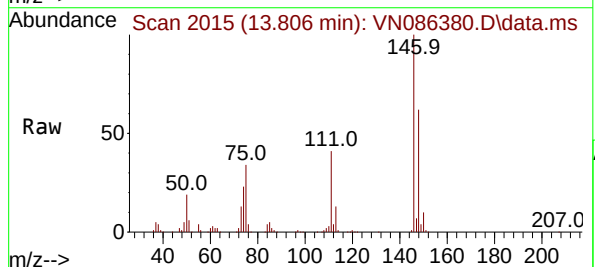
Manual Integrations
APPROVED

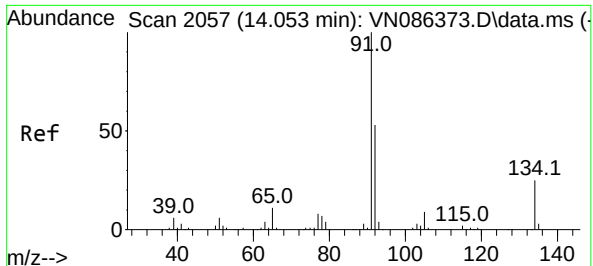
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#84
1,4-Dichlorobenzene
Concen: 49.523 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion:146 Resp: 247938
Ion Ratio Lower Upper
146 100
111 40.4 20.3 60.8
148 63.7 32.4 97.2





#85

n-Butylbenzene

Concen: 50.116 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 91 Resp: 437654

Ion Ratio Lower Upper

91 100

92 54.1 0.0 107.2

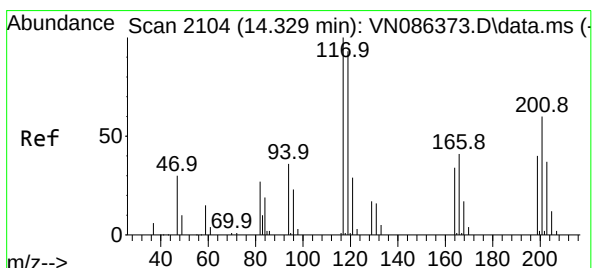
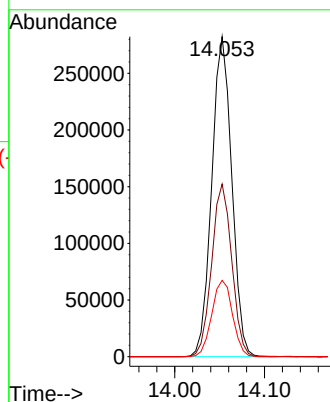
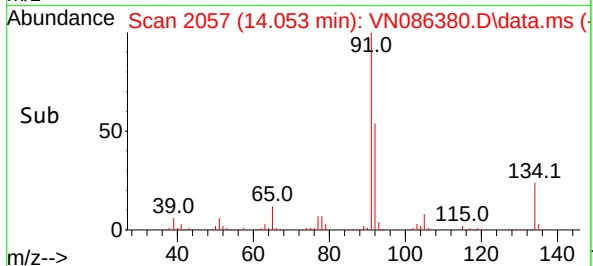
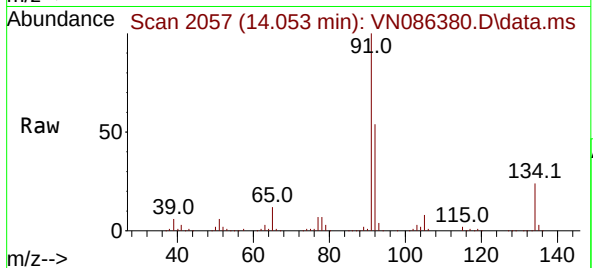
134 24.7 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#86

Hexachloroethane

Concen: 48.794 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN086380.D

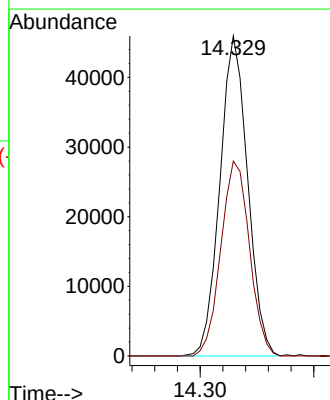
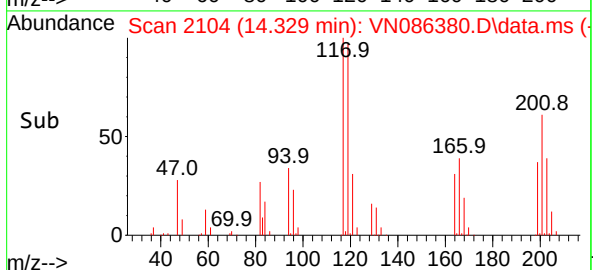
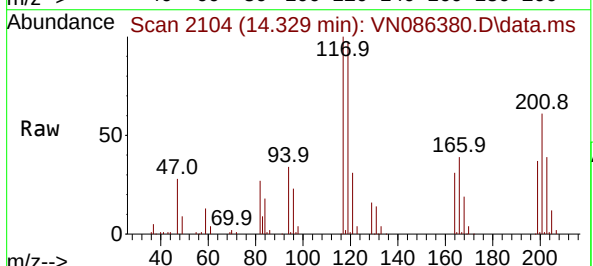
Acq: 23 Apr 2025 13:17

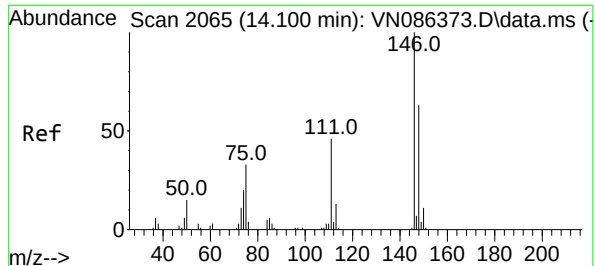
Tgt Ion:117 Resp: 78086

Ion Ratio Lower Upper

117 100

201 62.7 31.7 95.1





#87

1,2-Dichlorobenzene

Concen: 49.621 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

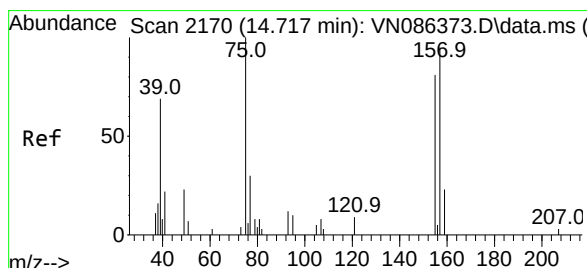
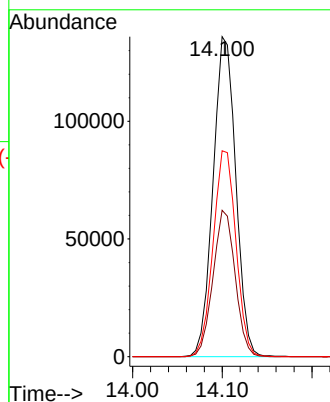
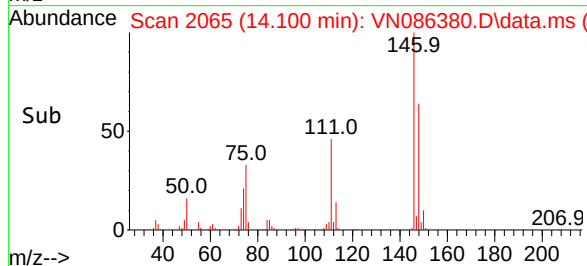
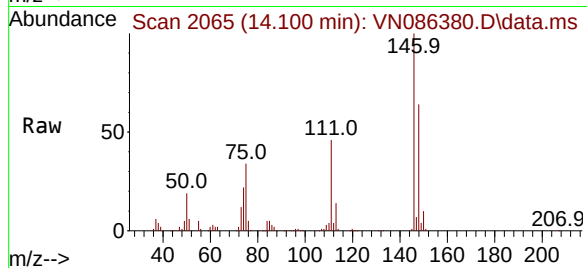
Tgt Ion:	146	Resp:	23925
Ion Ratio	Lower	Upper	
146	100		
111	44.6	22.1	66.3
148	64.7	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 50.425 ug/l

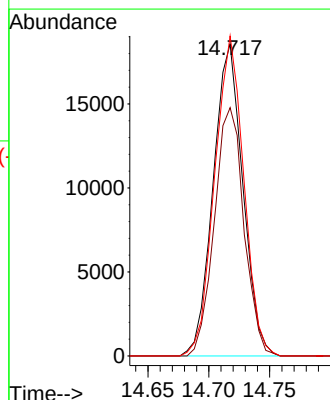
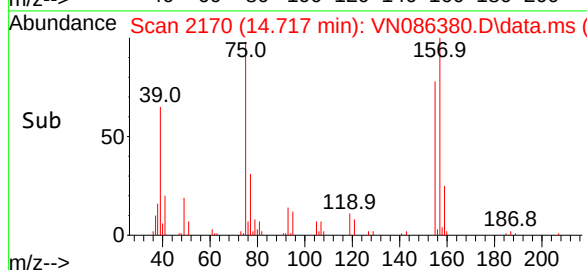
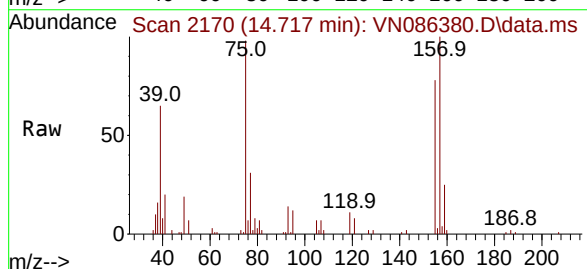
RT: 14.717 min Scan# 2170

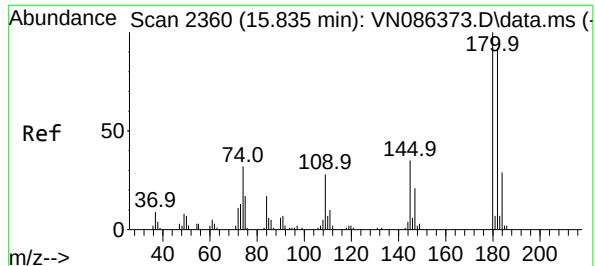
Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Tgt Ion:	75	Resp:	31467
Ion Ratio	Lower	Upper	
75	100		
155	79.3	64.0	96.0
157	100.5	78.2	117.4





#89

1,2,4-Trichlorobenzene

Concen: 52.567 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

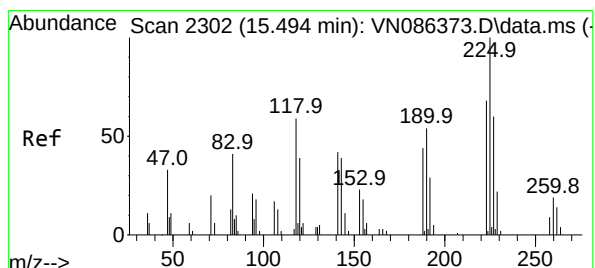
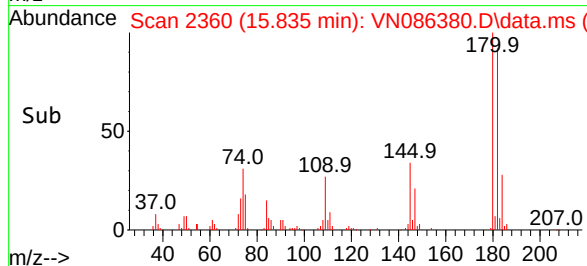
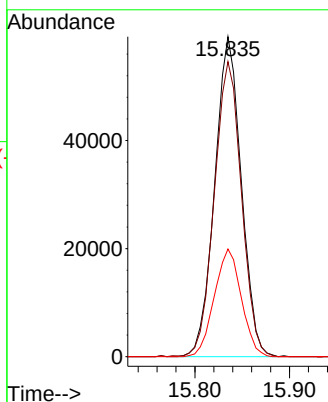
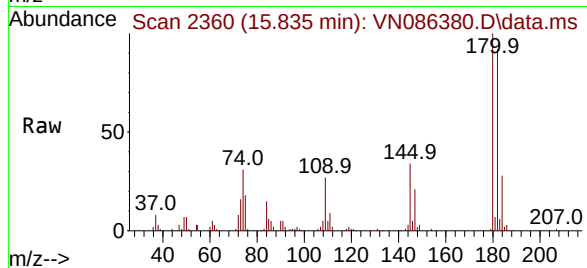
Tgt Ion:	180	Resp:	11551
Ion Ratio	Lower	Upper	
180	100		
182	94.0	74.8	112.2
145	34.1	26.9	40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

Concen: 51.862 ug/l

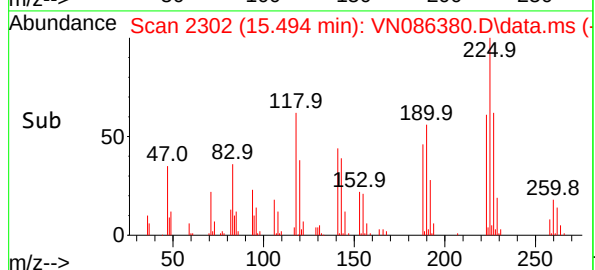
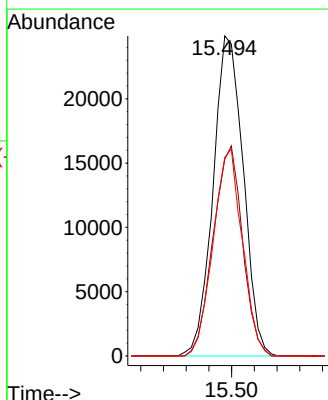
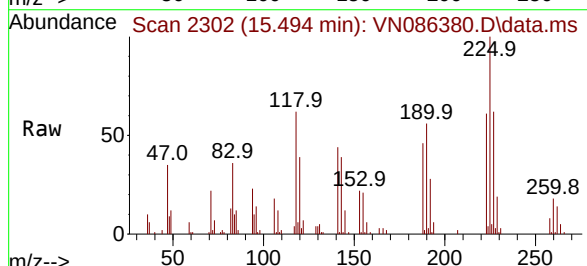
RT: 15.494 min Scan# 2302

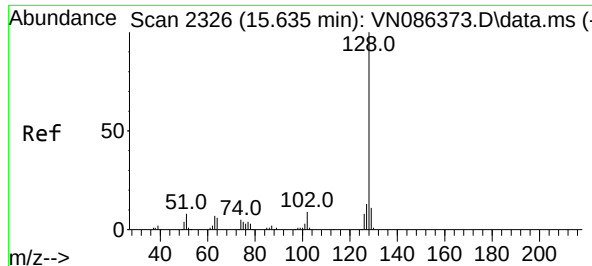
Delta R.T. 0.000 min

Lab File: VN086380.D

Acq: 23 Apr 2025 13:17

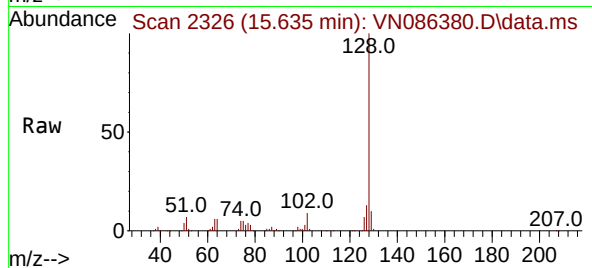
Tgt Ion:	225	Resp:	45907
Ion Ratio	Lower	Upper	
225	100		
223	63.8	0.0	128.8
227	62.7	0.0	120.2





#91
Naphthalene
Concen: 52.908 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

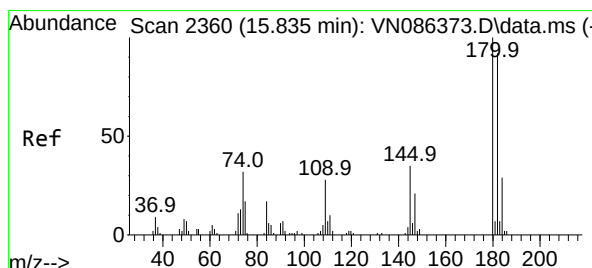
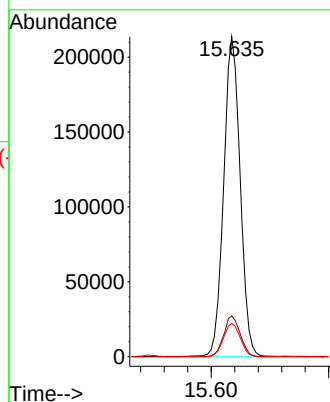
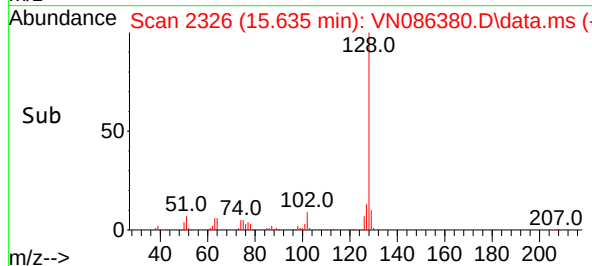
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:128 Resp: 416250
Ion Ratio Lower Upper
128 100
127 12.7 10.6 15.8
129 10.6 8.7 13.1

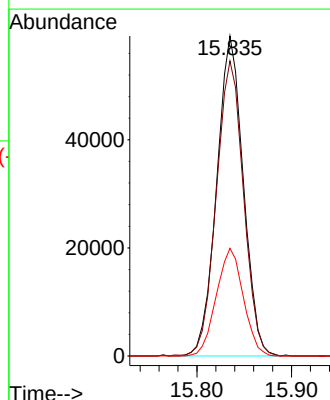
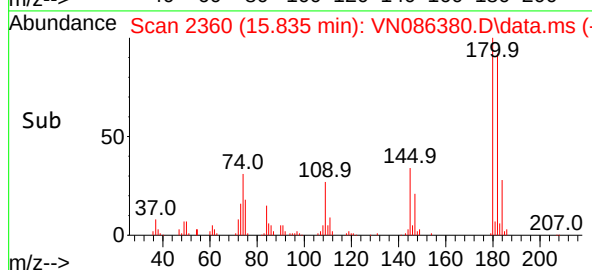
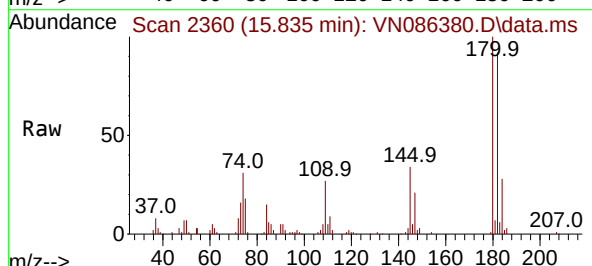
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 52.567 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086380.D
Acq: 23 Apr 2025 13:17

Tgt Ion:180 Resp: 115517
Ion Ratio Lower Upper
180 100
182 94.0 0.0 187.0
145 34.1 0.0 67.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042325

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28814	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	176766	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	160412	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	84449	30.399	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%			
60) 4-Bromofluorobenzene	12.847	95	90439	28.685	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.633%			
63) Toluene-d8	10.565	98	265630	30.100	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	41142	20.682	ug/l	95
3) Chloromethane	2.365	50	57712	20.424	ug/l	95
4) Vinyl Chloride	2.518	62	55345	20.449	ug/l	100
5) Bromomethane	2.965	94	29651	20.985	ug/l	98
6) Chloroethane	3.124	64	35793	19.838	ug/l	94
7) Trichlorofluoromethane	3.500	101	63367	19.836	ug/l	98
8) Diethyl Ether	3.965	74	27119	20.111	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	39724	20.227	ug/l	97
10) 1,1-Dichloroethene	4.336	96	39637	19.718	ug/l	98
11) Methyl Iodide	4.588	142	47322	20.120	ug/l	99
12) Methyl Acetate	5.024	43	58243	20.442	ug/l	99
13) Acrolein	4.183	56	12072	81.993	ug/l	100
14) Acrylonitrile	5.718	53	107549	101.422	ug/l	99
15) Acetone	4.430	58	31433	107.574	ug/l	88
16) Carbon Disulfide	4.712	76	109280	20.631	ug/l	99
17) Allyl chloride	5.018	41	65341	20.329	ug/l	98
18) Methylene Chloride	5.283	84	45390	19.828	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	43000	20.070	ug/l	99
20) Diisopropyl ether	6.671	45	151075	19.768	ug/l	98
21) 1,1-Dichloroethane	6.565	63	83455	19.950	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	53300	19.895	ug/l	98
23) tert-Butyl Alcohol	5.512	59	43113	104.953	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	149632	20.147	ug/l	100
25) Chloroform	7.965	83	83891	19.815	ug/l	95
26) Cyclohexane	8.253	56	72784	19.705	ug/l #	98
29) 1,1-Dichloropropene	8.365	75	59993	19.252	ug/l	99
30) 2-Butanone	7.477	43	149457	98.812	ug/l	99
31) 2,2-Dichloropropane	7.482	77	75995	18.971	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	71545	19.213	ug/l	100
33) Carbon Tetrachloride	8.359	117	58859	19.200	ug/l	97
34) Benzene	8.606	78	192366	19.408	ug/l	94
35) Methacrylonitrile	7.777	41	32722	18.965	ug/l	98
36) 1,2-Dichloroethane	8.665	62	62633	19.464	ug/l	99
37) Trichloroethene	9.347	130	47260	19.047	ug/l	92
38) Methylcyclohexane	9.600	83	69133	19.209	ug/l	99
39) 1,2-Dichloropropane	9.618	63	46678	19.063	ug/l	97
40) Dibromomethane	9.706	93	31560	19.273	ug/l	98
41) Bromodichloromethane	9.882	83	67356	19.438	ug/l	99
42) Vinyl Acetate	6.600	43	514738	98.241	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042325

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	56564	18.897	ug/l	99
44) Isopropyl Acetate	8.688	43	112514	19.805	ug/l	98
45) 1,4-Dioxane	9.688	88	18241	411.534	ug/l	97
46) Methyl methacrylate	9.676	41	50286	19.190	ug/l	92
47) n-amyl Acetate	12.488	43	90266	18.642	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	74255	19.167	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	78577	19.233	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	44981	19.666	ug/l	98
51) Ethyl methacrylate	10.870	69	74966	18.819	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79190	19.590	ug/l	99
53) Dibromochloromethane	11.353	129	48611	18.927	ug/l	99
54) 1,2-Dibromoethane	11.465	107	44285	19.043	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	184980	98.770	ug/l	99
56) Bromoform	12.576	173	30722	18.434	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	306519	98.743	ug/l	99
59) 2-Hexanone	11.194	43	224318	98.060	ug/l	99
61) Tetrachloroethene	11.100	164	46736	19.102	ug/l	95
62) Toluene	10.629	91	207649	19.339	ug/l	97
64) Chlorobenzene	11.888	112	129646	19.378	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	43109	19.270	ug/l	99
66) Ethyl Benzene	11.959	91	233802	19.345	ug/l	99
67) m/p-Xylenes	12.070	106	177124	38.625	ug/l	99
68) o-Xylene	12.394	106	86250	19.209	ug/l	99
69) Styrene	12.406	104	144708	19.014	ug/l	100
70) Isopropylbenzene	12.694	105	215598	19.236	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	60151	20.382	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	50492m	19.624	ug/l	
73) Bromobenzene	12.976	156	49645	19.266	ug/l	98
74) n-propylbenzene	13.029	91	253908	19.064	ug/l	100
75) 2-Chlorotoluene	13.123	91	159080	19.133	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	177597	19.311	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	24658	18.884	ug/l	95
78) 4-Chlorotoluene	13.217	91	158316	19.044	ug/l	99
79) tert-butylbenzene	13.435	119	151069	19.180	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	179423	19.103	ug/l	99
81) sec-Butylbenzene	13.611	105	214645	19.091	ug/l	100
82) p-Isopropyltoluene	13.723	119	177486	18.866	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	92009	18.889	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	92122	19.142	ug/l	98
85) n-Butylbenzene	14.053	91	157496	18.762	ug/l	99
86) Hexachloroethane	14.329	117	28240	18.358	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	88423	19.078	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11808	19.684	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	42238	19.995	ug/l	98
90) Hexachlorobutadiene	15.494	225	18323	21.534	ug/l	98
91) Naphthalene	15.635	128	154380	20.413	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	42238	19.995	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086381.D
Acq On : 23 Apr 2025 13:53
Operator : JC\MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025

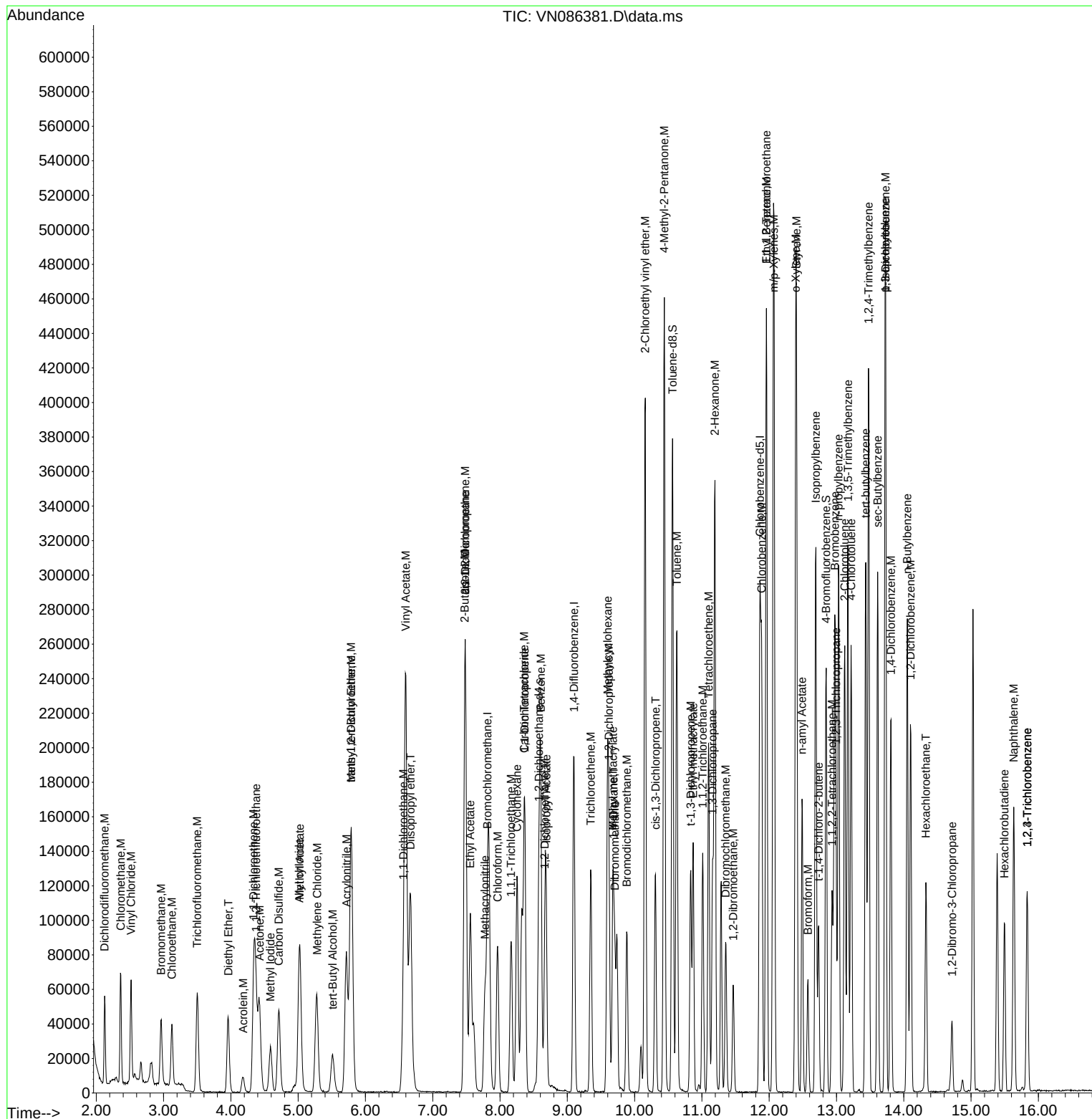
Quant Time: Apr 24 04:50:37 2025

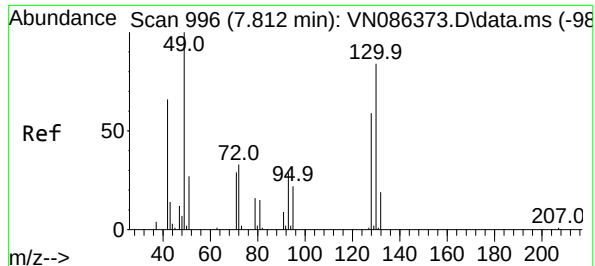
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Thu Apr 24 04:42:24 2025

Response via : Initial Calibration





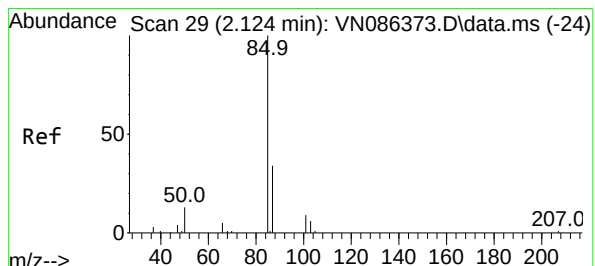
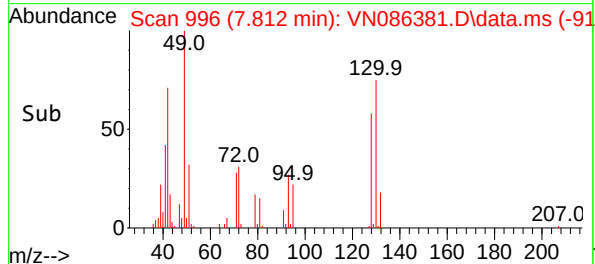
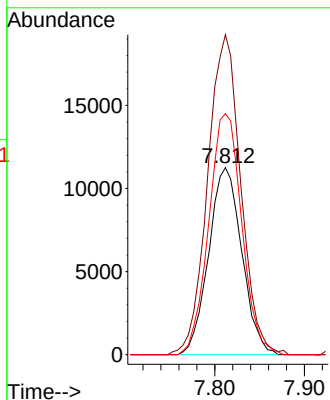
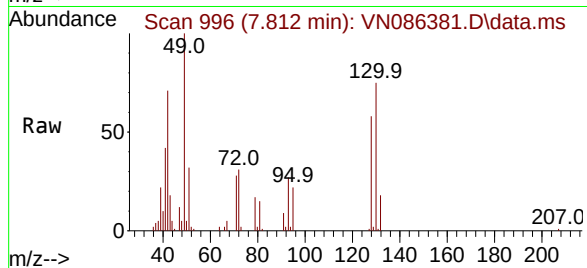
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion	Ratio	Lower	Upper
128	100		
49	171.1	0.0	433.8
130	128.7	0.0	325.0

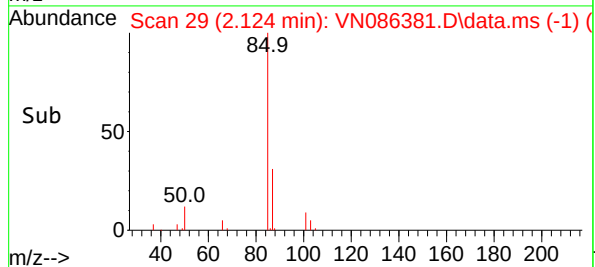
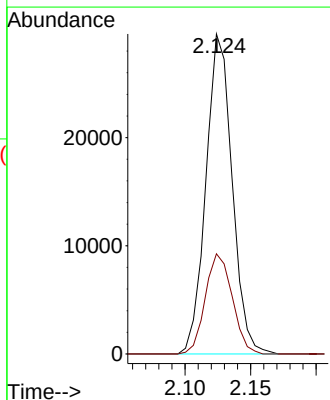
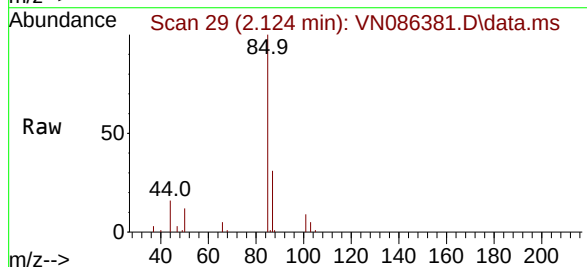
Manual Integrations
APPROVED

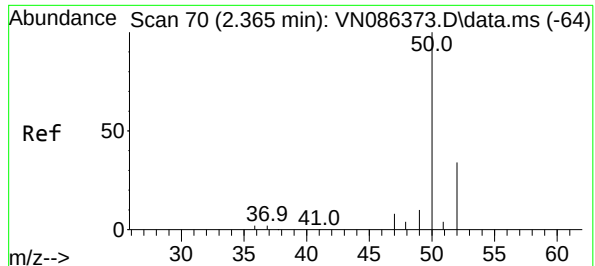
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 20.682 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.3	17.0	50.9





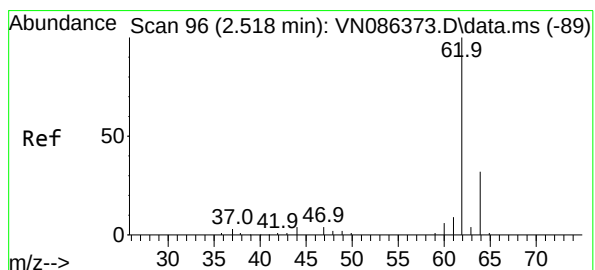
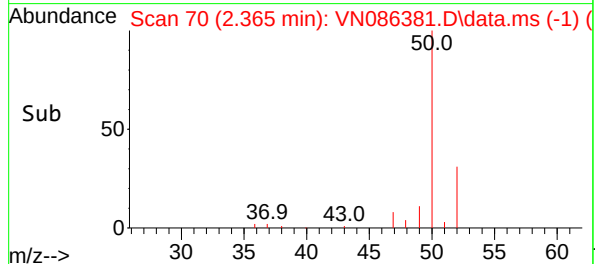
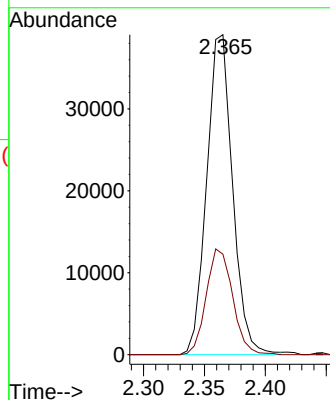
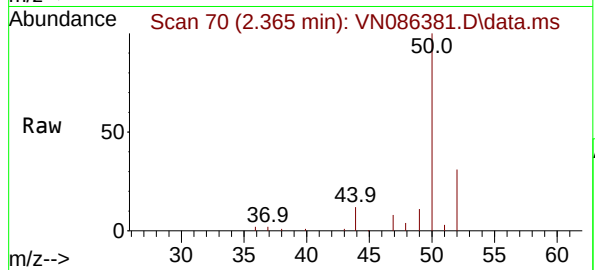
#3
Chloromethane
Concen: 20.424 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion: 50 Resp: 5771
Ion Ratio Lower Upper
50 100
52 31.4 27.3 40.9

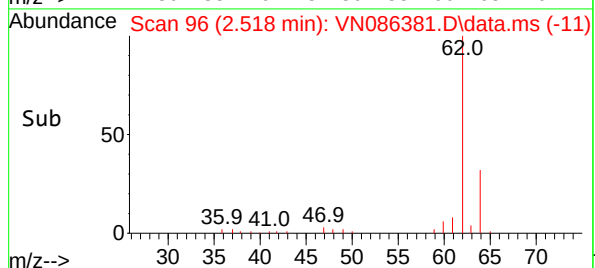
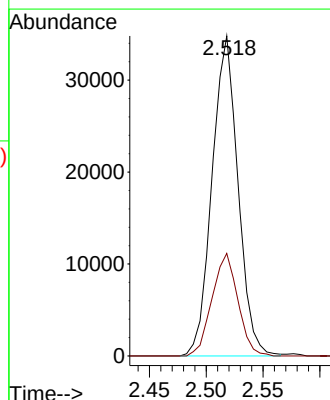
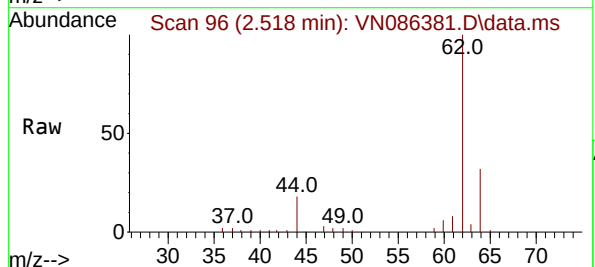
Manual Integrations
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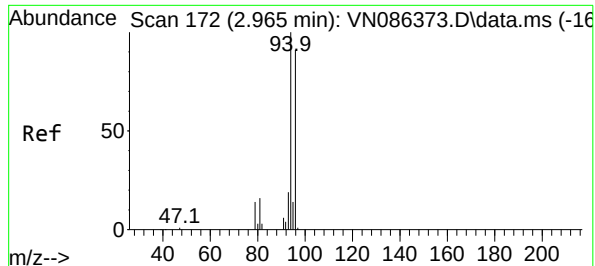
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 20.449 ug/l
RT: 2.518 min Scan# 96
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 62 Resp: 55345
Ion Ratio Lower Upper
62 100
64 32.1 25.8 38.8





#5

Bromomethane

Concen: 20.985 ug/l

RT: 2.965 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 94 Resp: 2965

Ion Ratio Lower Upper

94 100

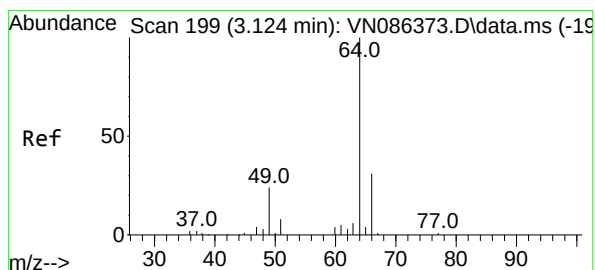
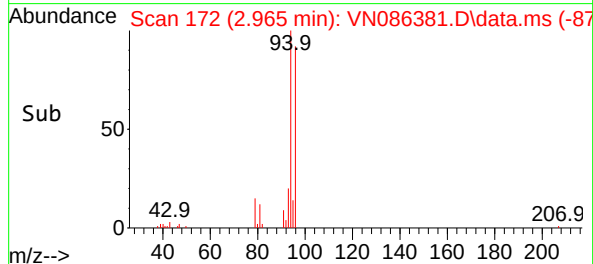
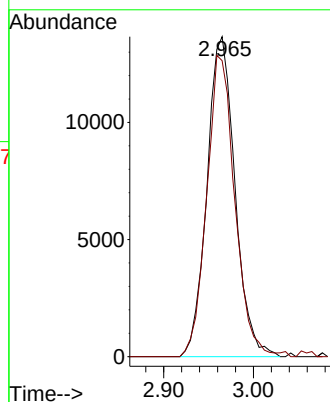
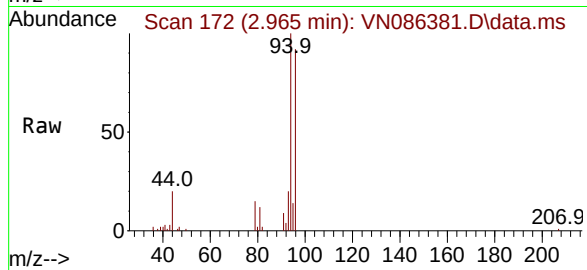
96 92.5 72.4 108.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#6

Chloroethane

Concen: 19.838 ug/l

RT: 3.124 min Scan# 199

Delta R.T. -0.000 min

Lab File: VN086381.D

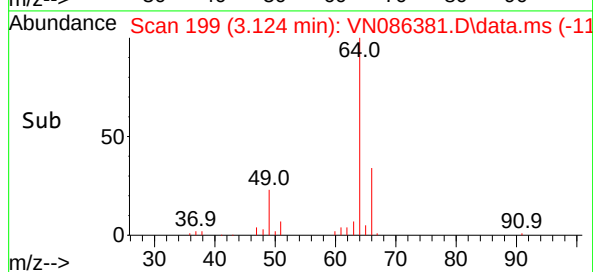
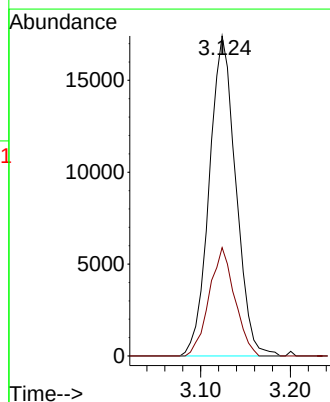
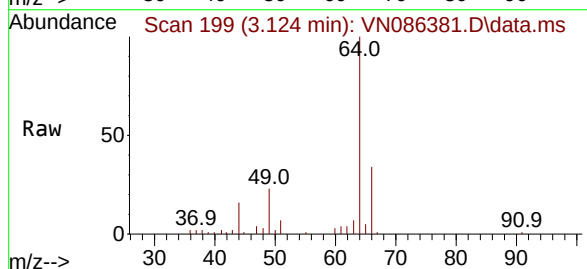
Acq: 23 Apr 2025 13:53

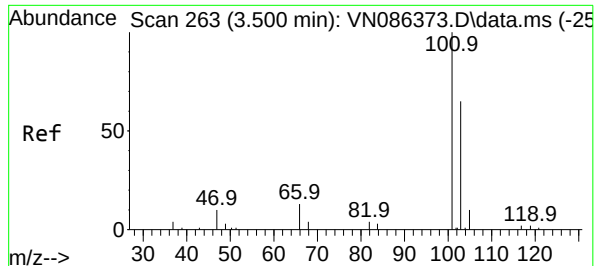
Tgt Ion: 64 Resp: 35793

Ion Ratio Lower Upper

64 100

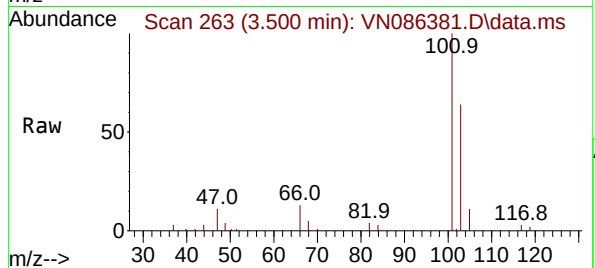
66 33.8 24.5 36.7





#7
Trichlorofluoromethane
Concen: 19.836 ug/l
RT: 3.500 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

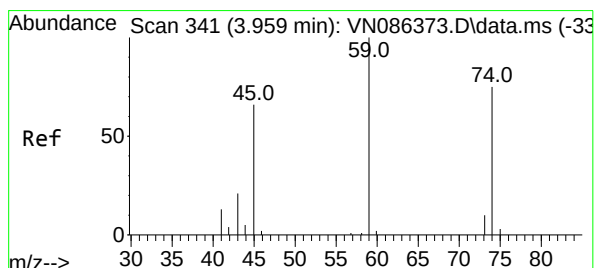
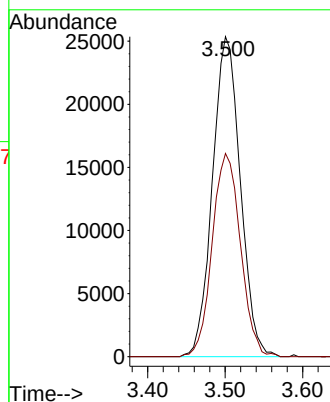
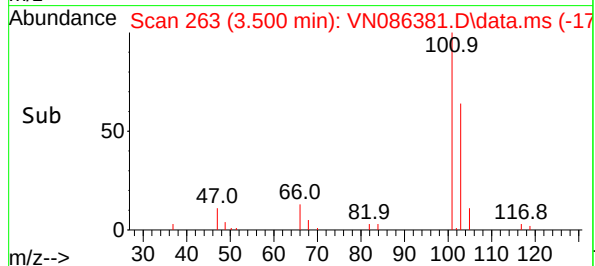
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:101 Resp: 6336
Ion Ratio Lower Upper
101 100
103 63.5 51.8 77.6

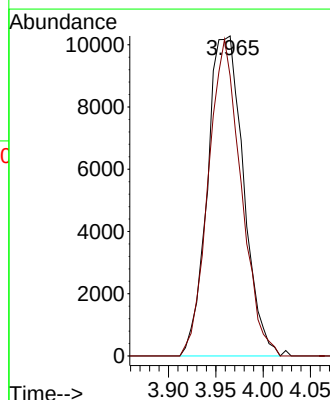
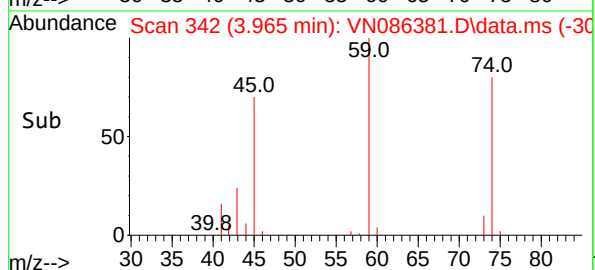
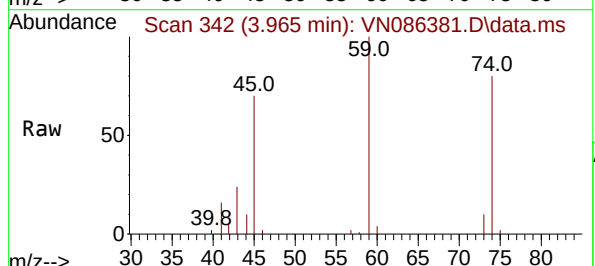
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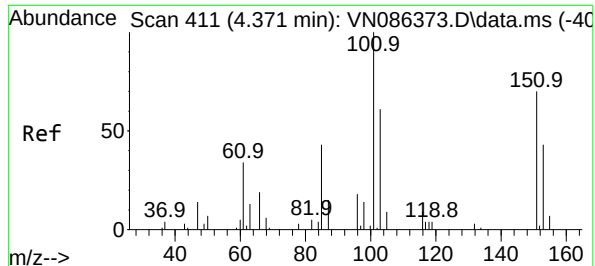
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 20.111 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.006 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 74 Resp: 27119
Ion Ratio Lower Upper
74 100
45 90.4 18.5 166.3





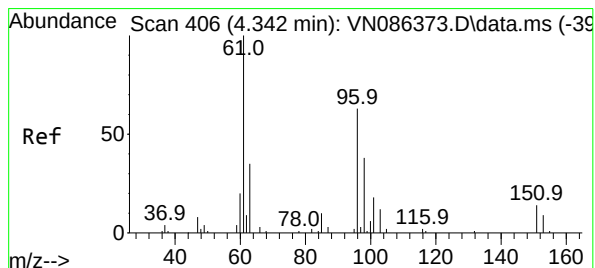
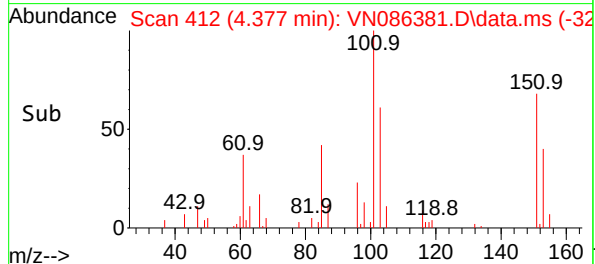
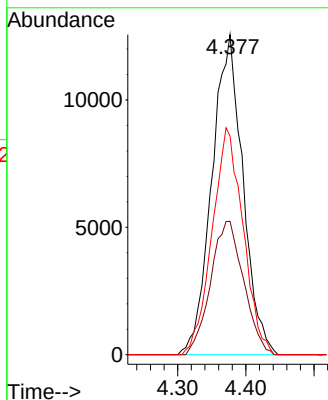
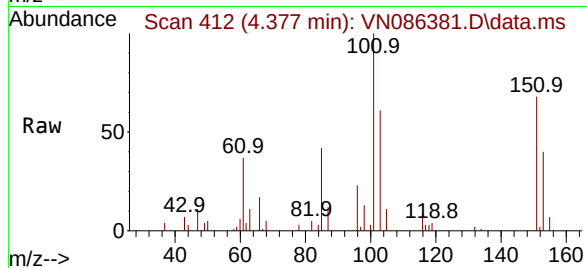
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.227 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion:101 Resp: 39724
Ion Ratio Lower Upper
101 100
85 44.4 0.0 84.4
151 70.9 0.0 145.8

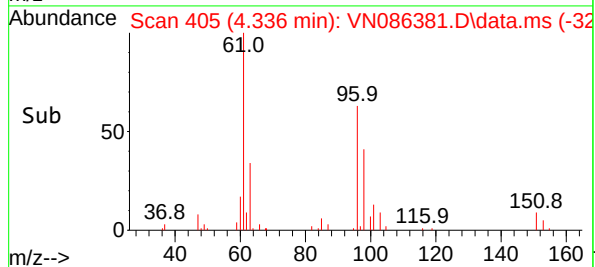
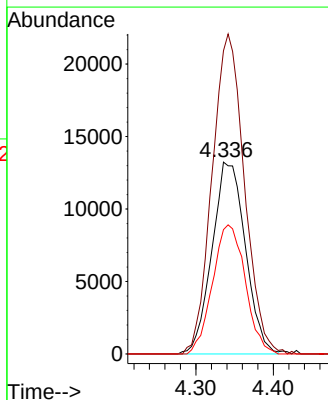
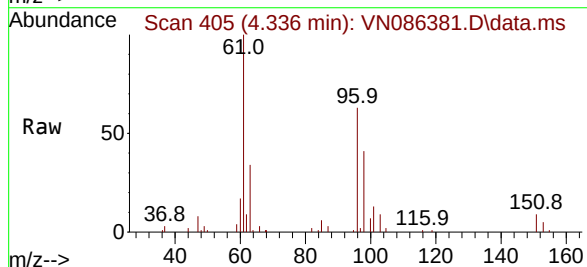
Manual Integrations
APPROVED

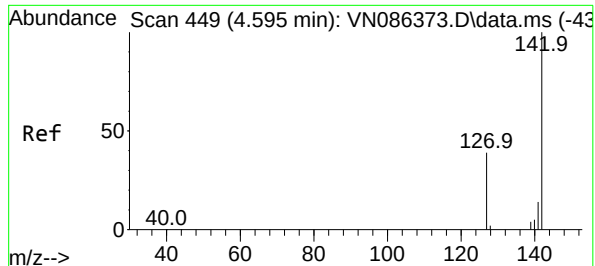
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 19.718 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 96 Resp: 39637
Ion Ratio Lower Upper
96 100
61 158.1 126.2 189.4
98 64.9 48.5 72.7





#11

Methyl Iodide

Concen: 20.120 ug/l

RT: 4.588 min Scan# 449

Delta R.T. -0.006 min

Lab File: VN086381.D

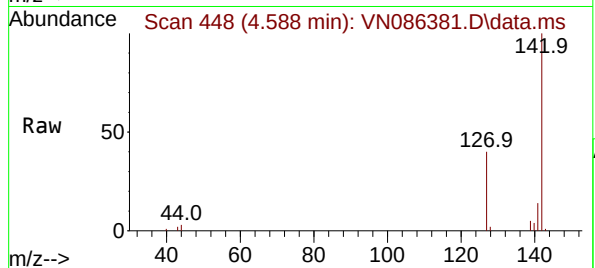
Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325



Tgt Ion:142 Resp: 4732

Ion Ratio Lower Upper

142 100

127 39.6 19.3 57.9

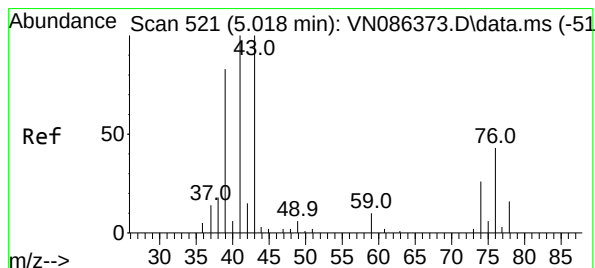
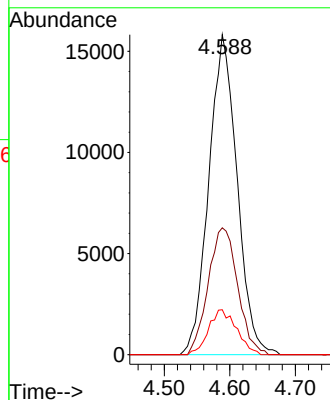
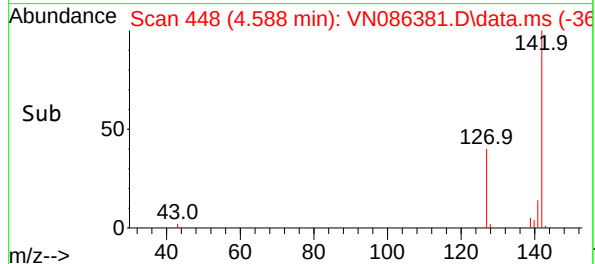
141 14.0 7.1 21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 20.442 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN086381.D

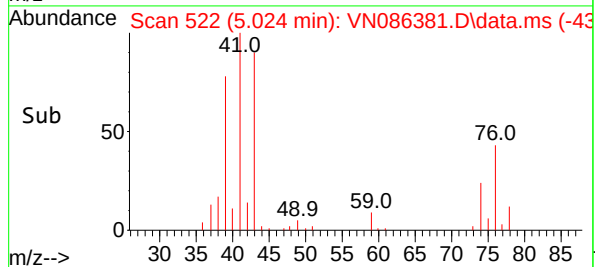
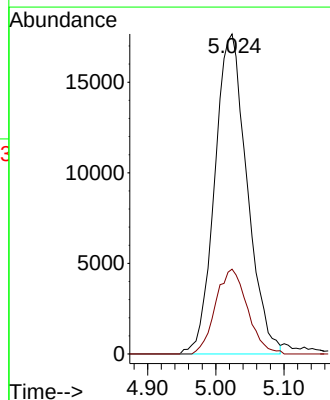
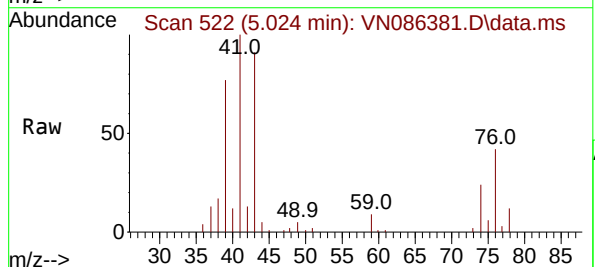
Acq: 23 Apr 2025 13:53

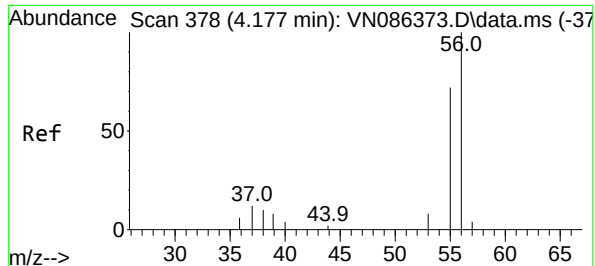
Tgt Ion: 43 Resp: 58243

Ion Ratio Lower Upper

43 100

74 26.3 20.8 31.2





#13

Acrolein

Concen: 81.993 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 56 Resp: 12072

Ion Ratio Lower Upper

56 100

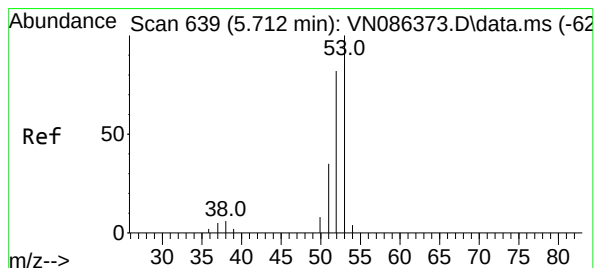
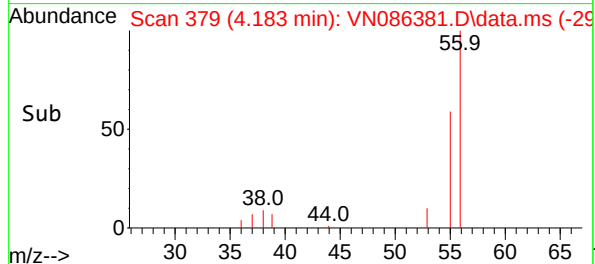
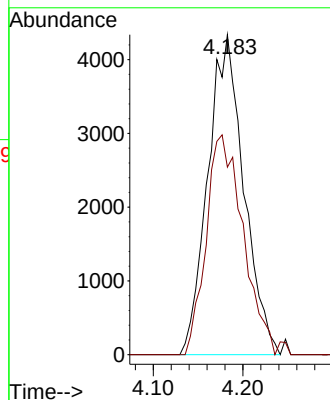
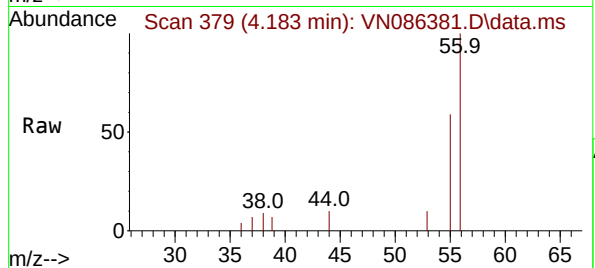
55 70.2 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 101.422 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

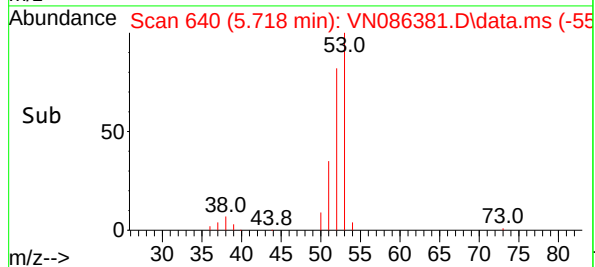
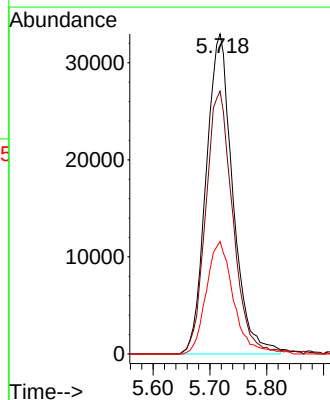
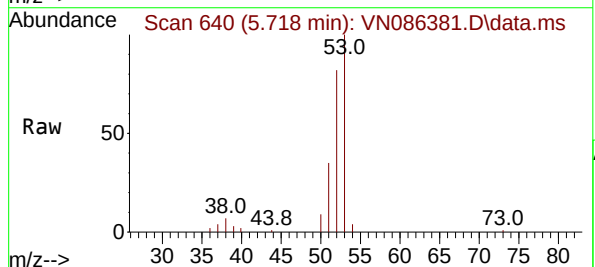
Tgt Ion: 53 Resp: 107549

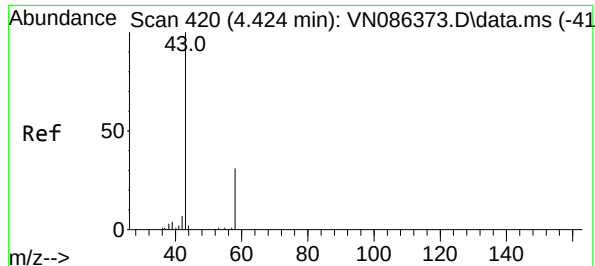
Ion Ratio Lower Upper

53 100

52 82.6 41.2 123.6

51 36.0 17.6 52.8





#15

Acetone

Concen: 107.574 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 58 Resp: 3143

Ion Ratio Lower Upper

58 100

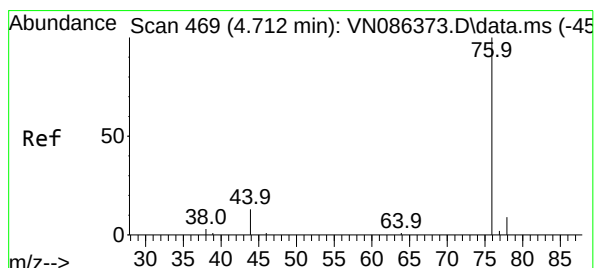
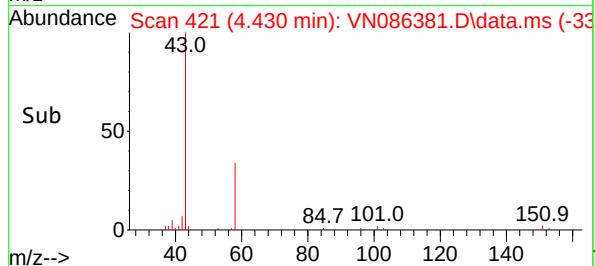
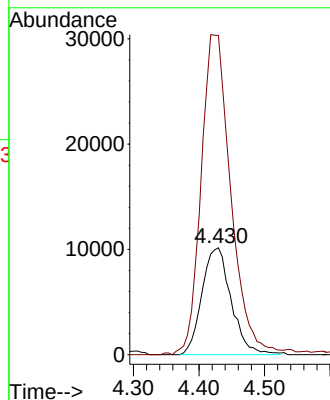
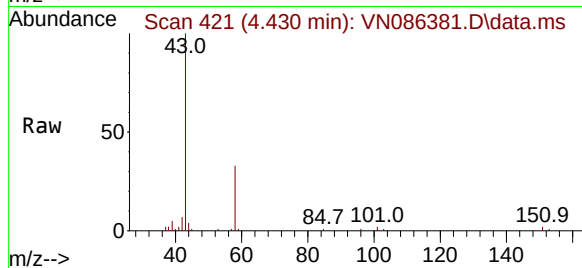
43 294.4 255.1 382.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 20.631 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086381.D

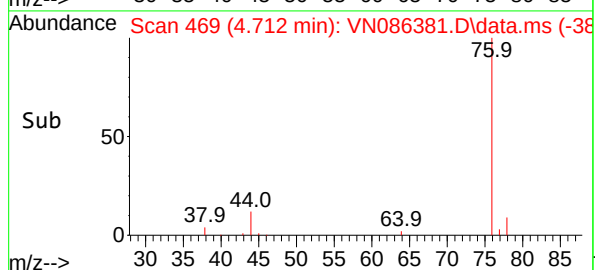
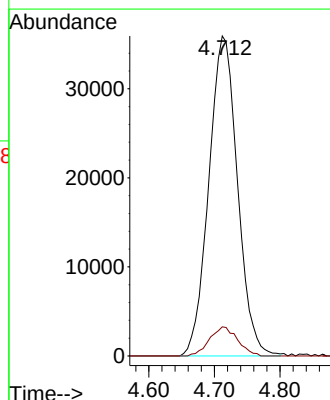
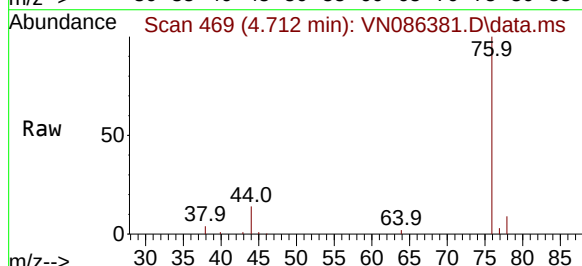
Acq: 23 Apr 2025 13:53

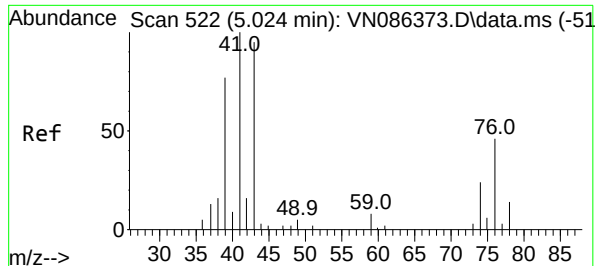
Tgt Ion: 76 Resp: 109280

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#17

Allyl chloride

Concen: 20.329 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 41 Resp: 6534

Ion Ratio Lower Upper

41 100

39 72.7 36.7 110.1

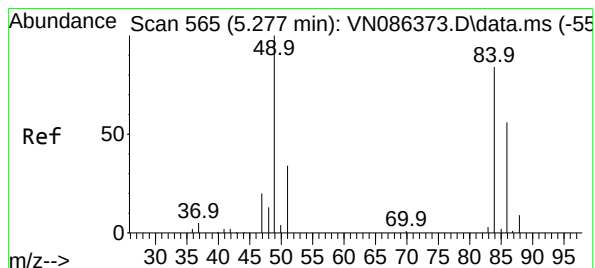
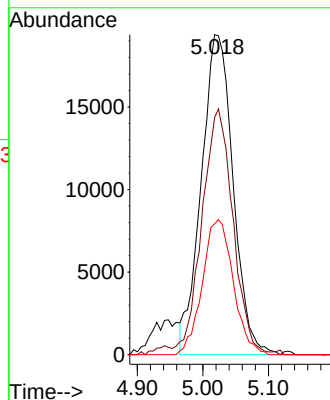
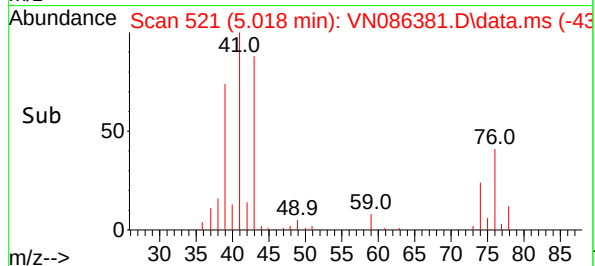
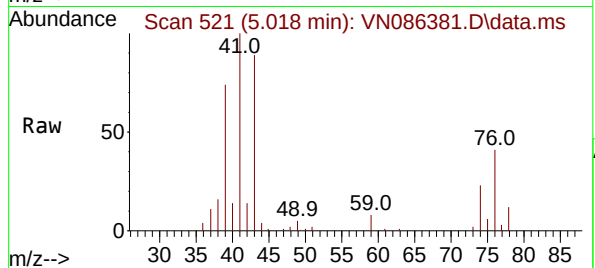
76 40.9 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 19.828 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion: 84 Resp: 45390

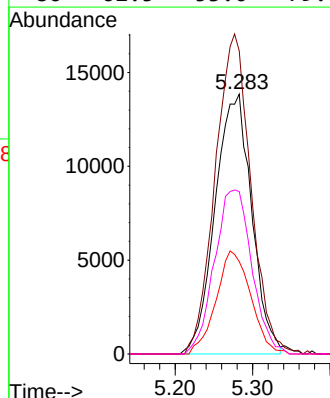
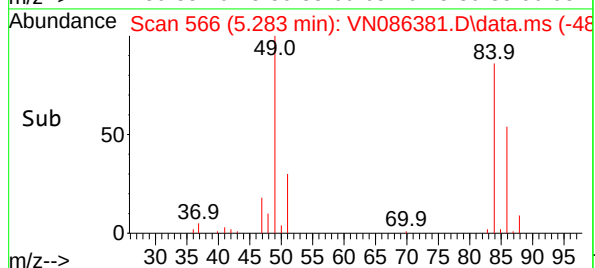
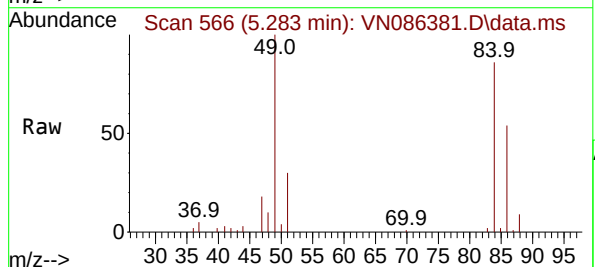
Ion Ratio Lower Upper

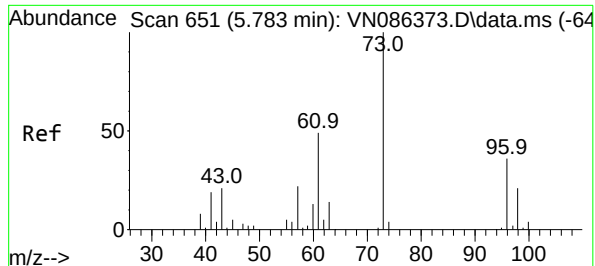
84 100

49 116.6 95.4 143.0

51 35.5 32.8 49.2

86 62.5 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 20.070 ug/l

RT: 5.788 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 96 Resp: 43000

Ion Ratio Lower Upper

96 100

61 132.4 107.3 160.9

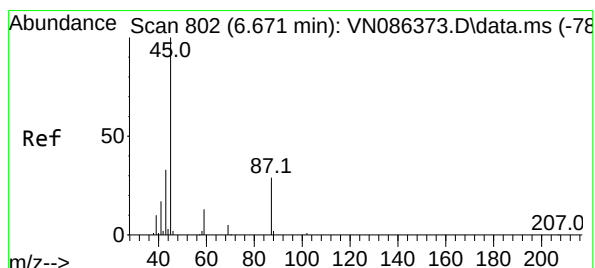
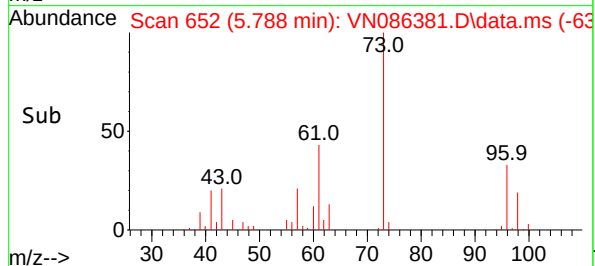
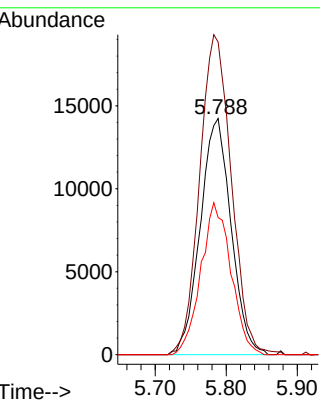
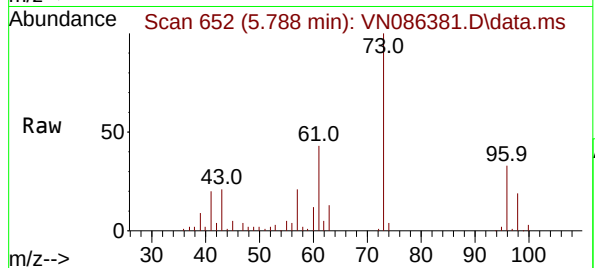
98 58.1 46.7 70.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 19.768 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion: 45 Resp: 151075

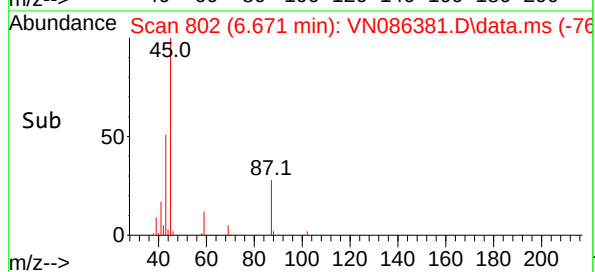
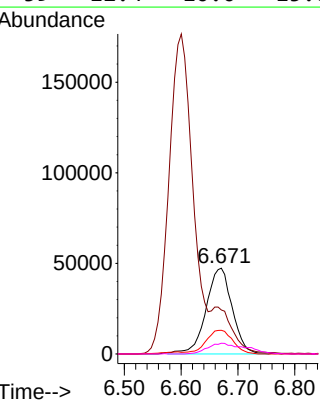
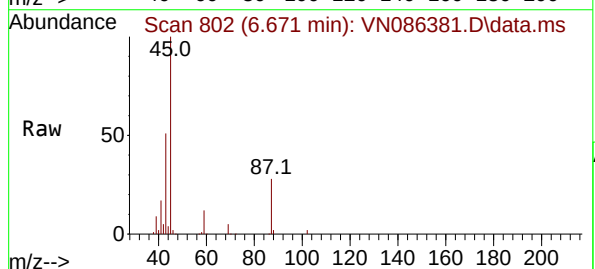
Ion Ratio Lower Upper

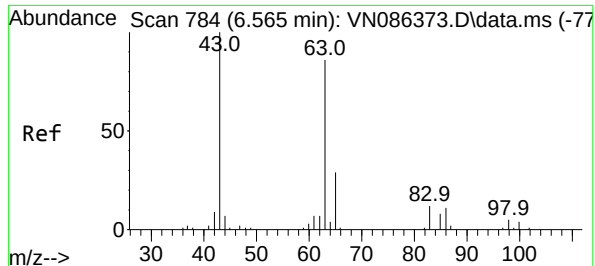
45 100

43 49.5 38.8 58.2

87 27.5 23.5 35.3

59 12.4 10.0 15.0





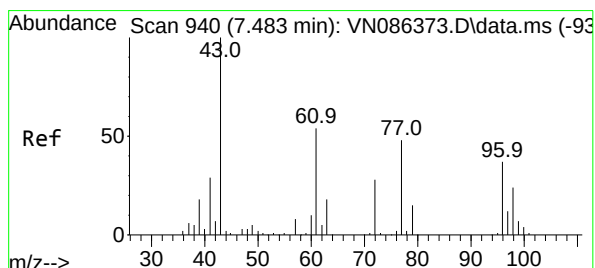
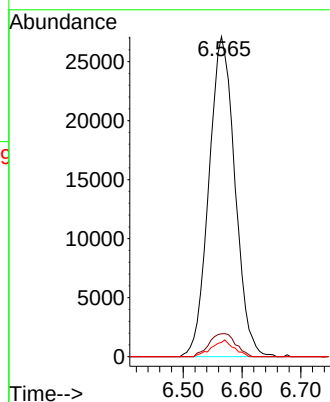
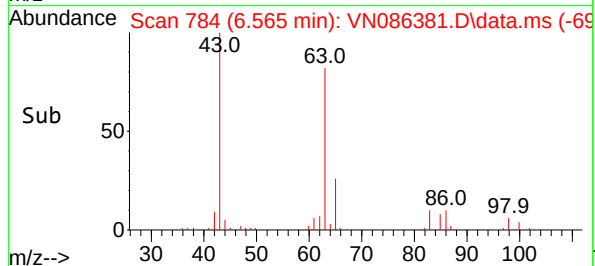
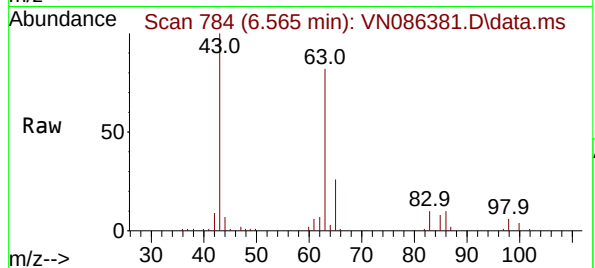
#21
1,1-Dichloroethane
Concen: 19.950 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion: 63 Resp: 8345
Ion Ratio Lower Upper
63 100
98 7.2 3.0 9.2
100 4.4 2.3 6.8

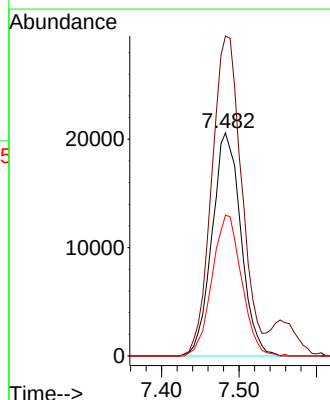
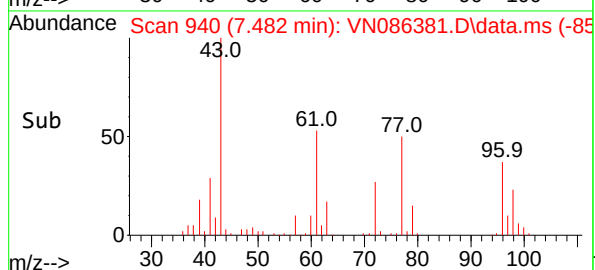
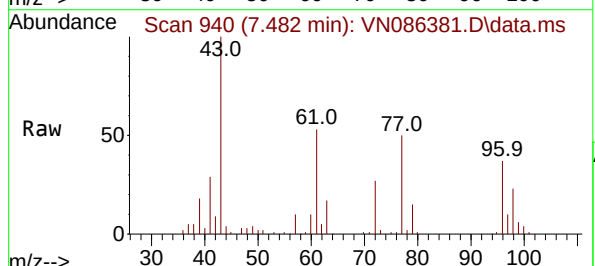
Manual Integrations
APPROVED

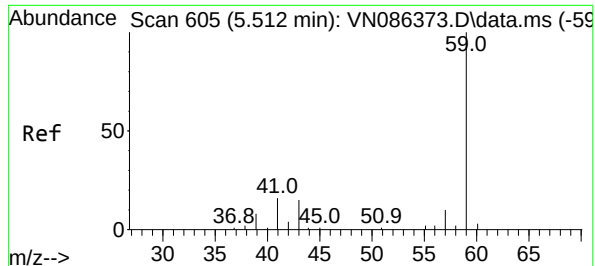
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 19.895 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 96 Resp: 53300
Ion Ratio Lower Upper
96 100
61 148.0 120.6 181.0
98 64.4 51.8 77.6





#23

tert-Butyl Alcohol

Concen: 104.953 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 59 Resp: 4311

Ion Ratio Lower Upper

59 100

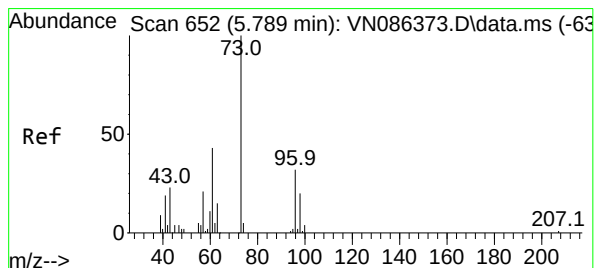
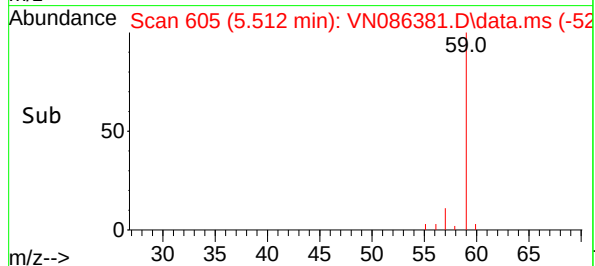
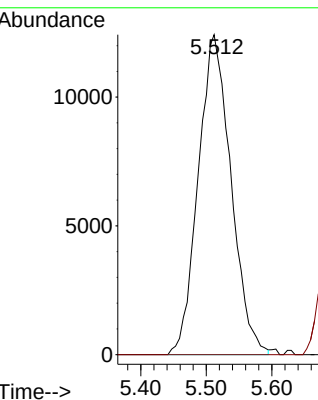
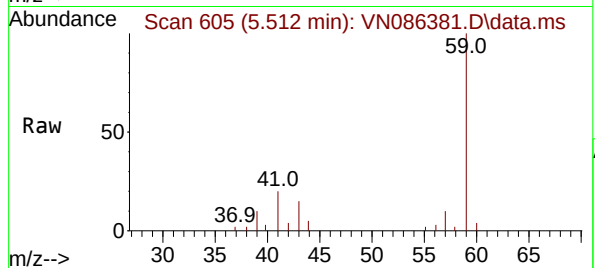
52 0.0 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#24

Methyl tert-Butyl Ether

Concen: 20.147 ug/l

RT: 5.788 min Scan# 652

Delta R.T. -0.000 min

Lab File: VN086381.D

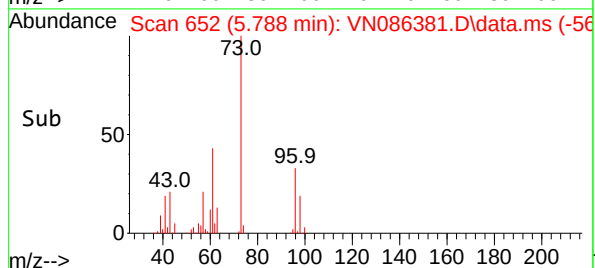
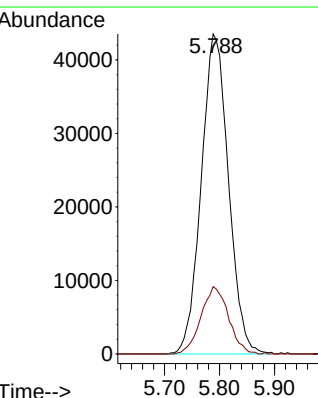
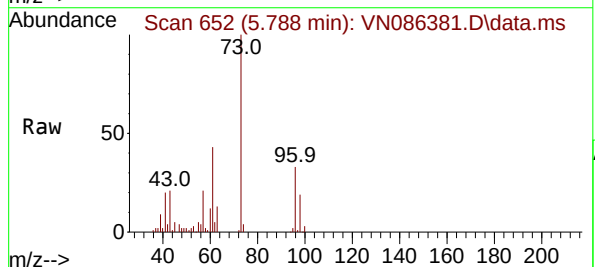
Acq: 23 Apr 2025 13:53

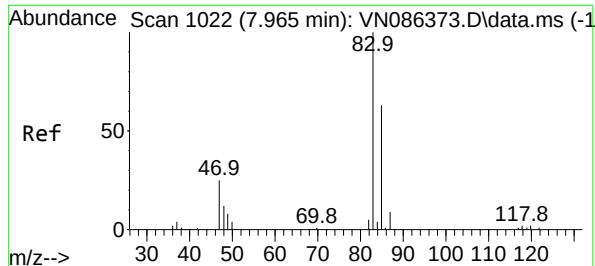
Tgt Ion: 73 Resp: 149632

Ion Ratio Lower Upper

73 100

43 21.2 17.1 25.7





#25

Chloroform

Concen: 19.815 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 83 Resp: 8389

Ion Ratio Lower Upper

83 100

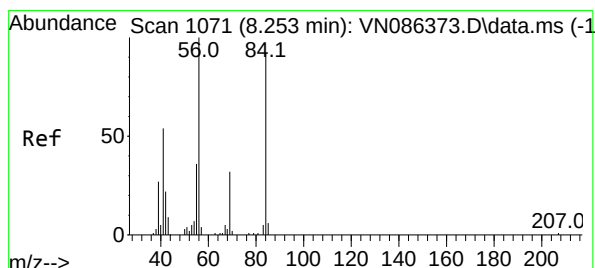
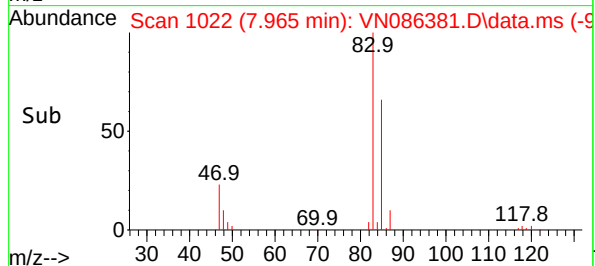
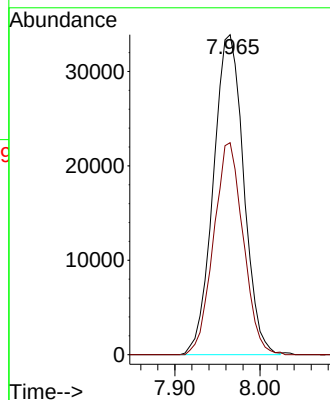
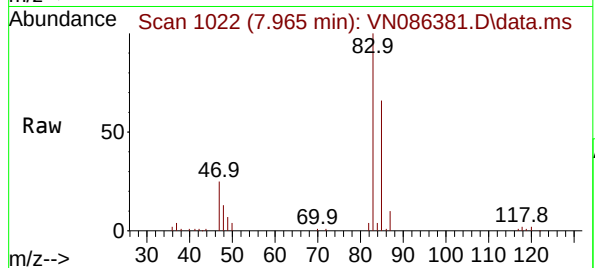
85 66.2 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 19.705 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

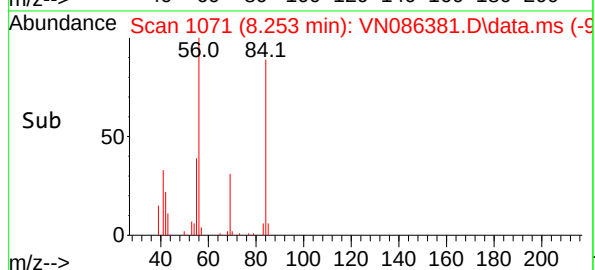
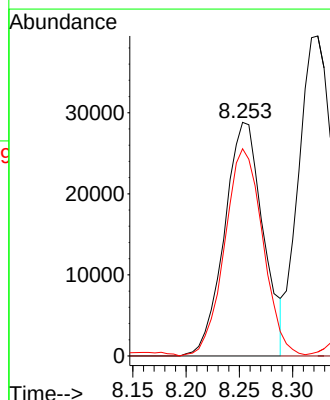
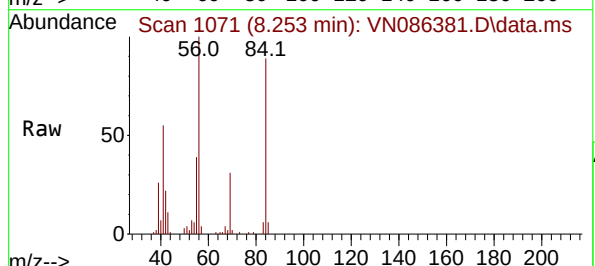
Tgt Ion: 56 Resp: 72784

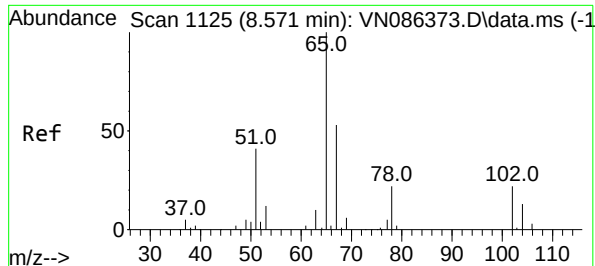
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 87.6 71.5 107.3





#27

1,2-Dichloroethane-d4

Concen: 30.399 ug/l

RT: 8.576 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 65 Resp: 84449

Ion Ratio Lower Upper

65 100

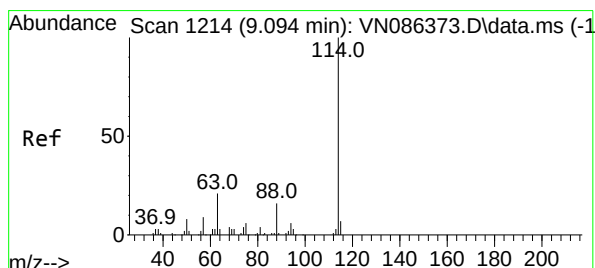
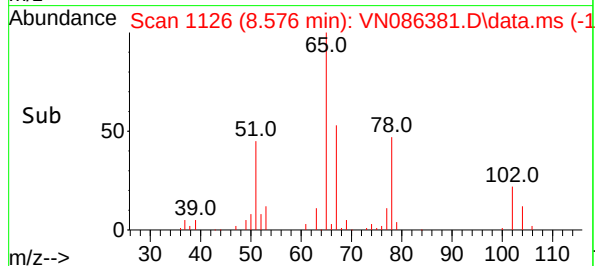
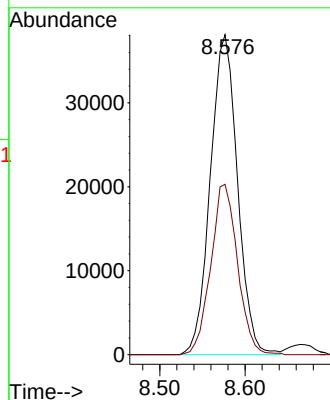
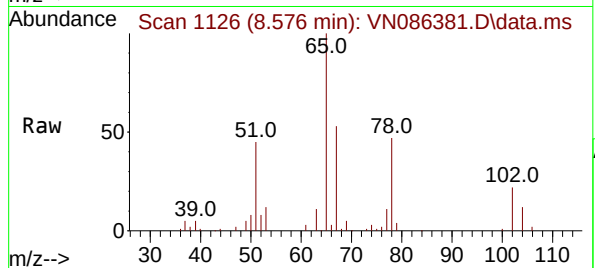
67 52.4 42.5 63.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

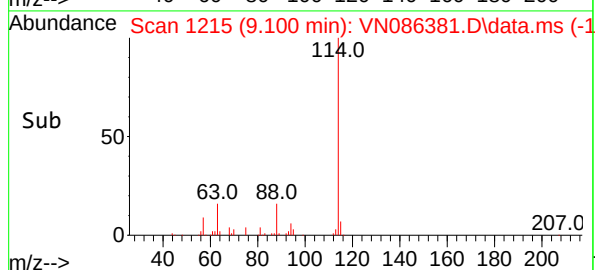
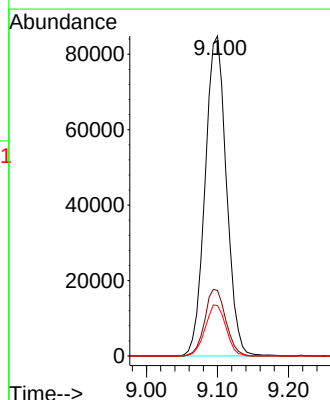
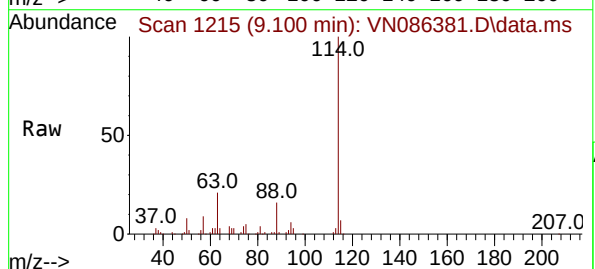
Tgt Ion:114 Resp: 176766

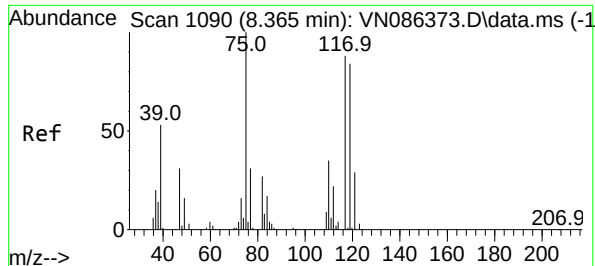
Ion Ratio Lower Upper

114 100

63 20.6 16.7 25.1

88 15.5 12.6 19.0





#29

1,1-Dichloropropene

Concen: 19.252 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

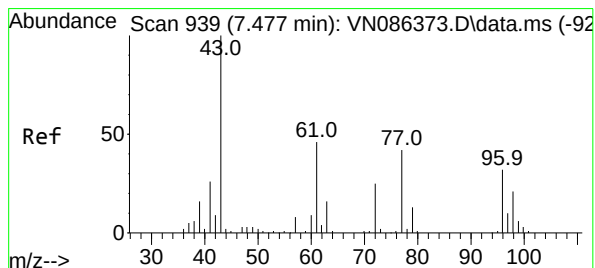
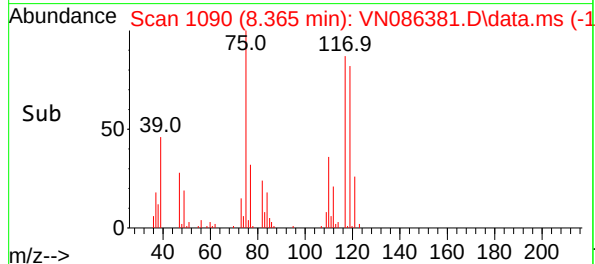
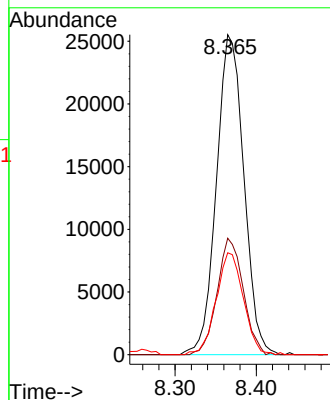
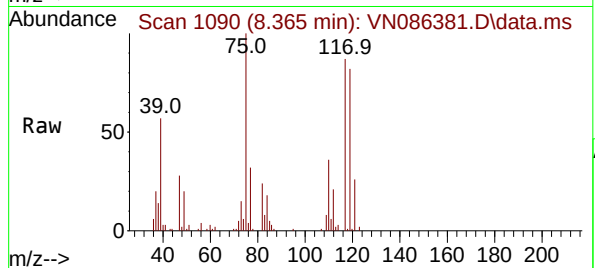
Tgt Ion:	75	Resp:	5999
Ion	Ratio	Lower	Upper
75	100		
110	34.6	0.0	68.0
77	31.5	0.0	61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 98.812 ug/l

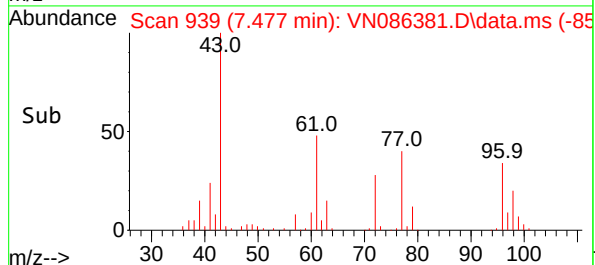
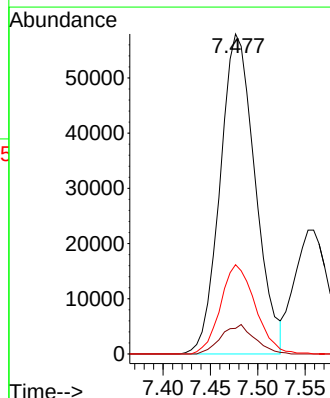
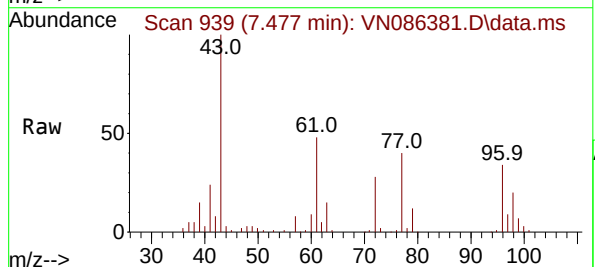
RT: 7.477 min Scan# 939

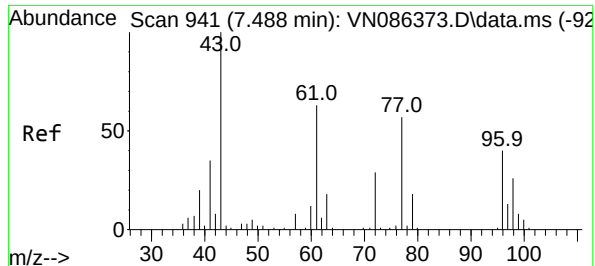
Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion:	43	Resp:	149457
Ion	Ratio	Lower	Upper
43	100		
57	8.8	6.6	10.0
72	27.5	22.2	33.4





#31

2,2-Dichloropropane

Concen: 18.971 ug/l

RT: 7.482 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICNVN042325

Tgt Ion: 77 Resp: 7599

Ion Ratio Lower Upper

77 100

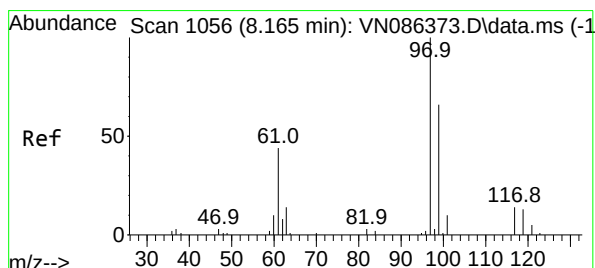
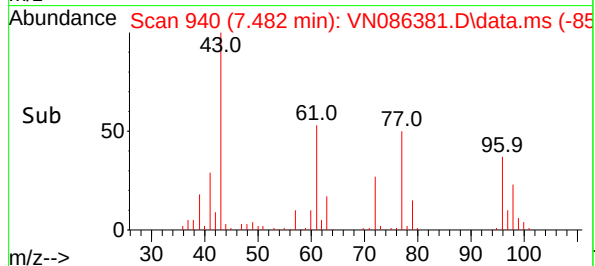
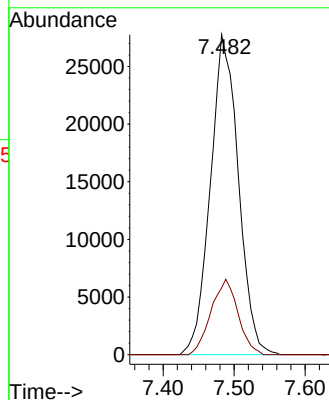
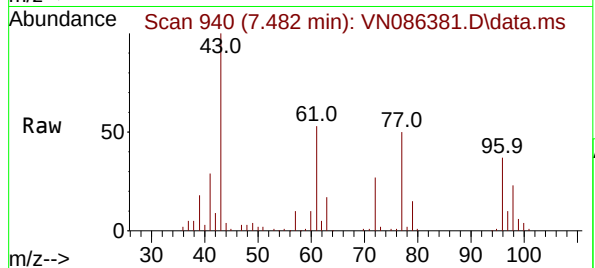
97 22.7 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#32

1,1,1-Trichloroethane

Concen: 19.213 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

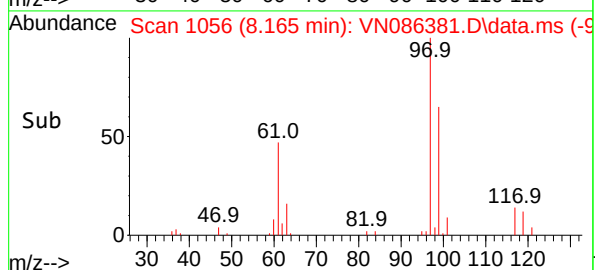
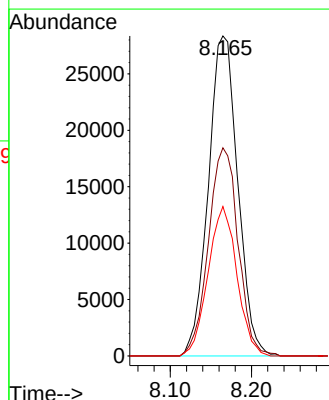
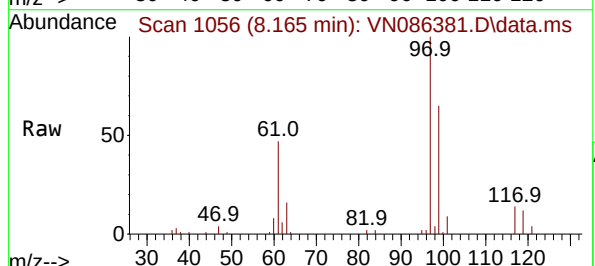
Tgt Ion: 97 Resp: 71545

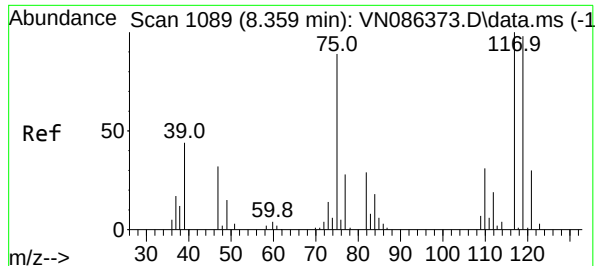
Ion Ratio Lower Upper

97 100

99 65.6 52.6 79.0

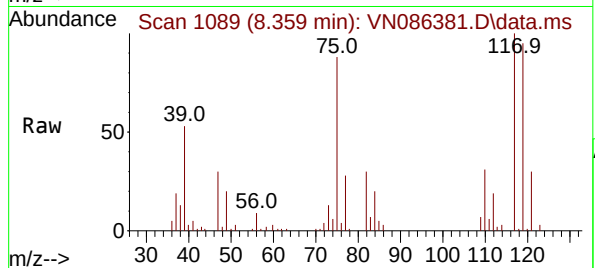
61 45.8 36.4 54.6





#33
Carbon Tetrachloride
Concen: 19.200 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

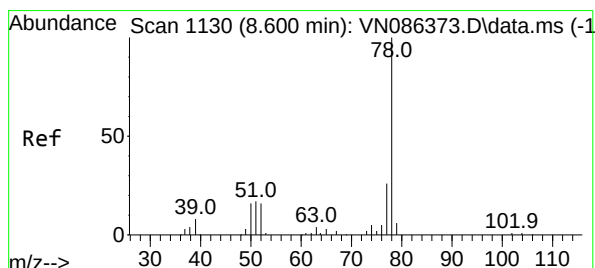
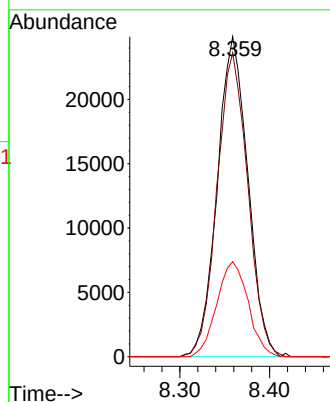
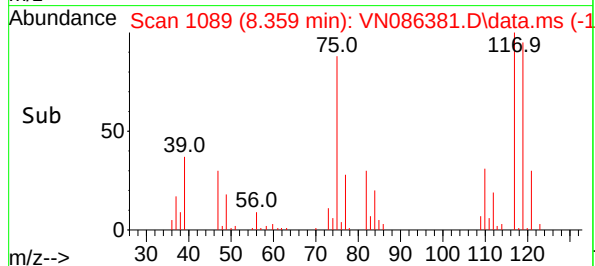
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion: 117 Resp: 5885
Ion Ratio Lower Upper
117 100
119 95.0 78.6 117.8
121 29.7 24.0 36.0

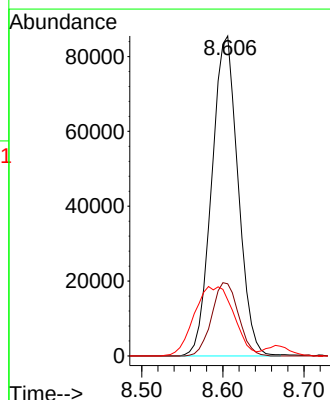
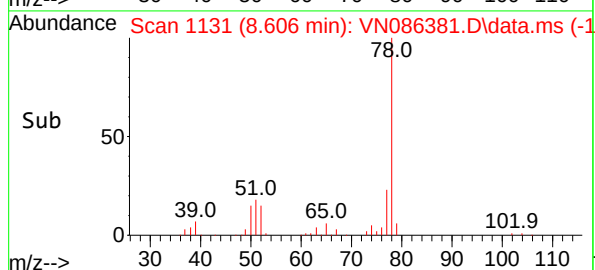
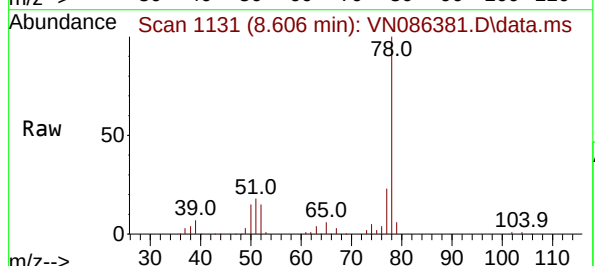
Manual Integrations
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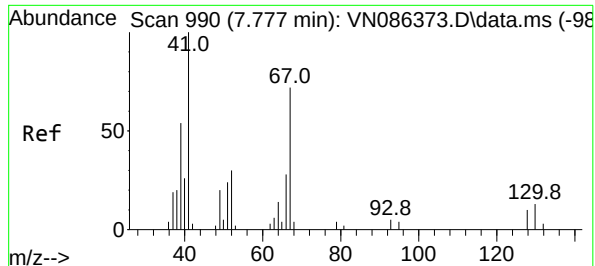
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 19.408 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 78 Resp: 192366
Ion Ratio Lower Upper
78 100
77 22.6 20.8 31.2
51 14.9 14.0 21.0





#35

Methacrylonitrile

Concen: 18.965 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 41 Resp: 3272

Ion Ratio Lower Upper

41 100

39 51.5 27.0 80.8

67 69.9 35.8 107.3

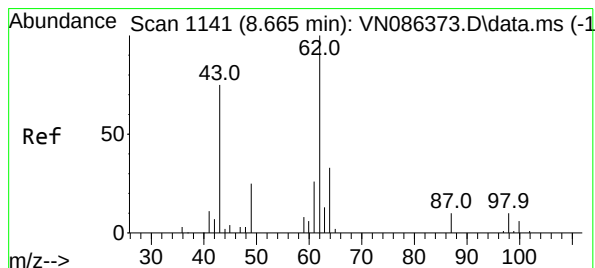
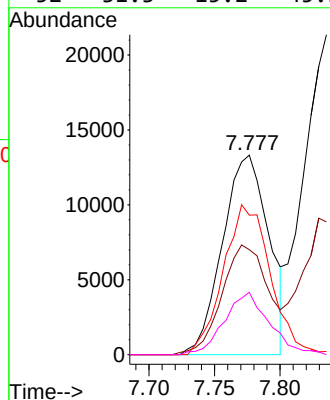
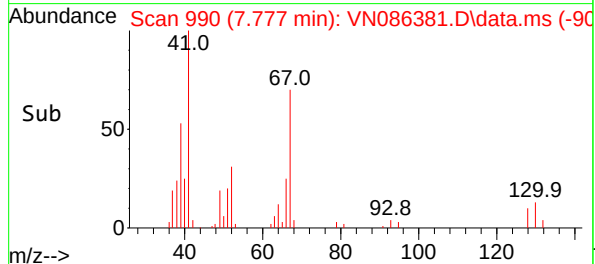
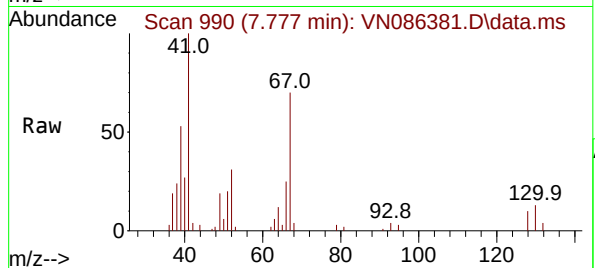
52 31.3 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 19.464 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN086381.D

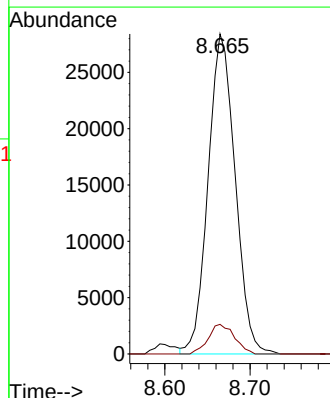
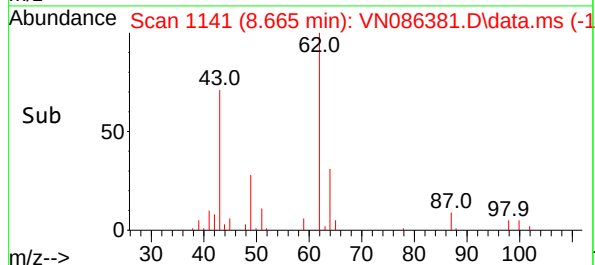
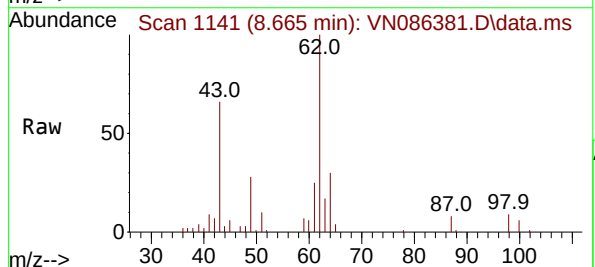
Acq: 23 Apr 2025 13:53

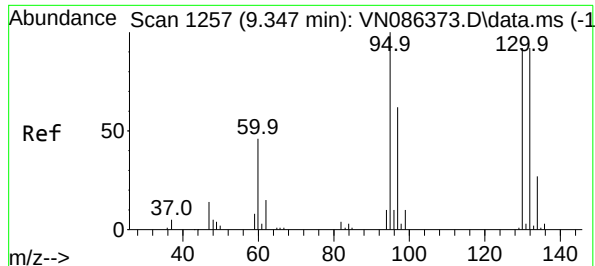
Tgt Ion: 62 Resp: 62633

Ion Ratio Lower Upper

62 100

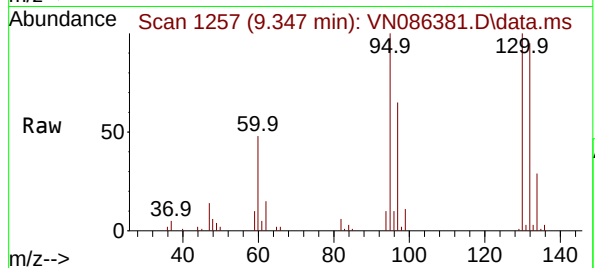
98 9.0 7.6 11.4





#37
Trichloroethene
Concen: 19.047 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

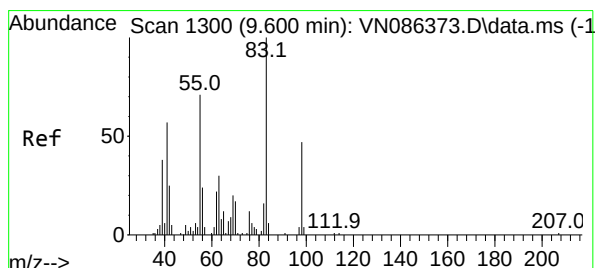
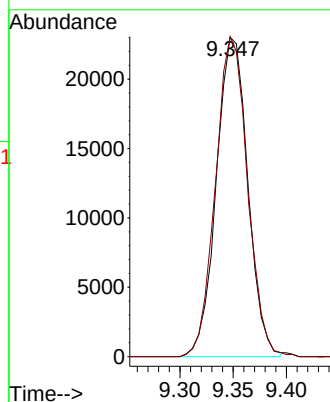
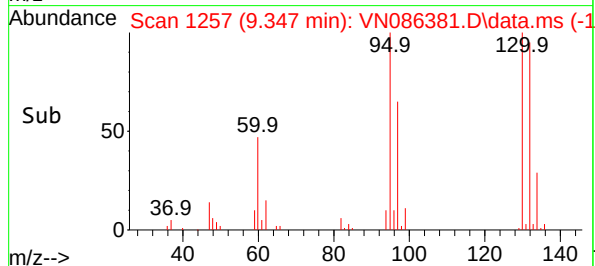
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:130 Resp: 47260
Ion Ratio Lower Upper
130 100
95 100.2 86.6 130.0

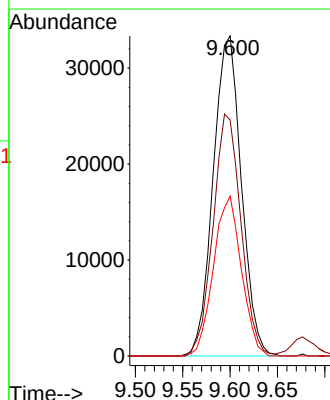
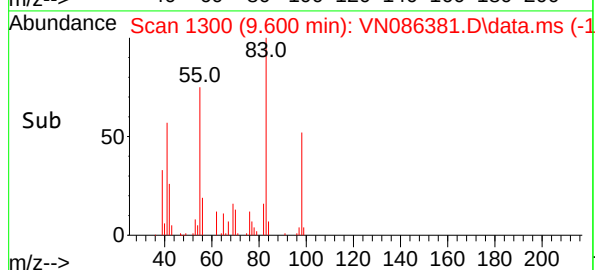
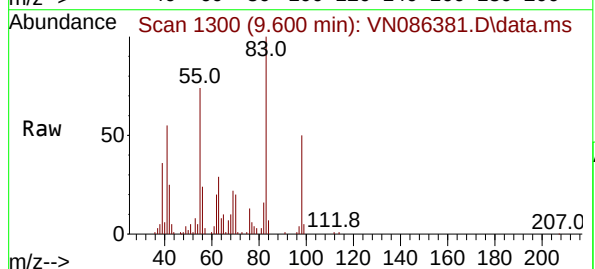
Manual Integrations
APPROVED

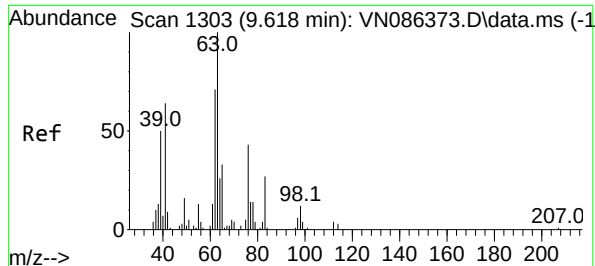
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#38
Methylcyclohexane
Concen: 19.209 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 83 Resp: 69133
Ion Ratio Lower Upper
83 100
55 74.7 37.3 111.9
98 49.3 23.8 71.5





#39

1,2-Dichloropropane

Concen: 19.063 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 63 Resp: 46678

Ion Ratio Lower Upper

63 100

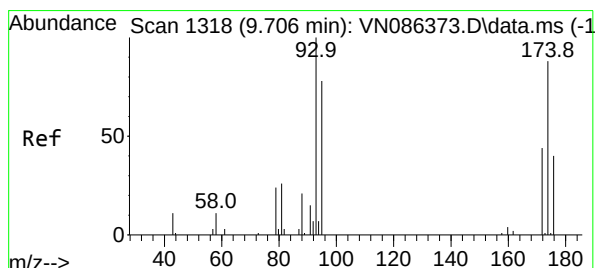
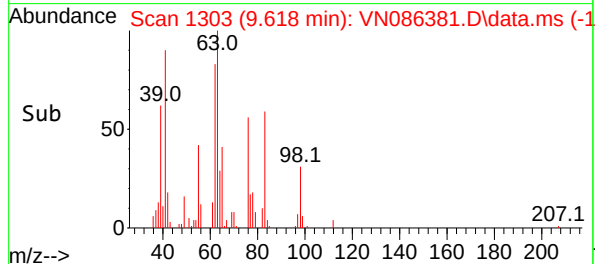
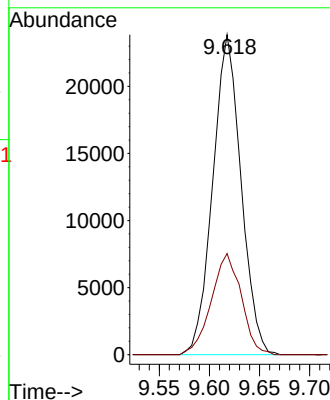
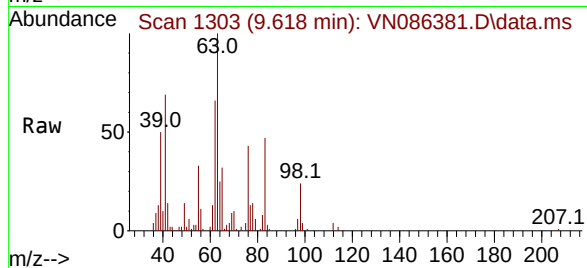
65 31.6 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 19.273 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

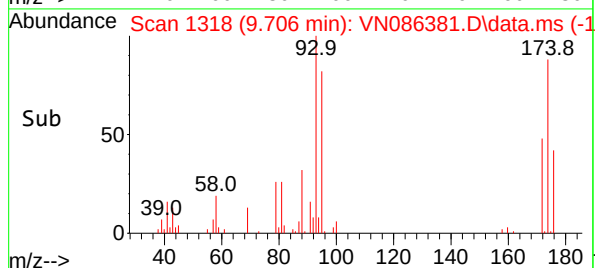
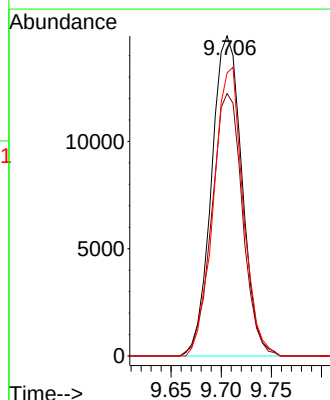
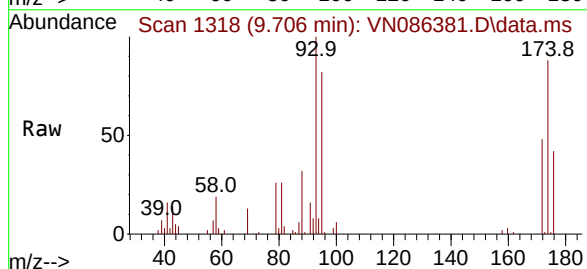
Tgt Ion: 93 Resp: 31560

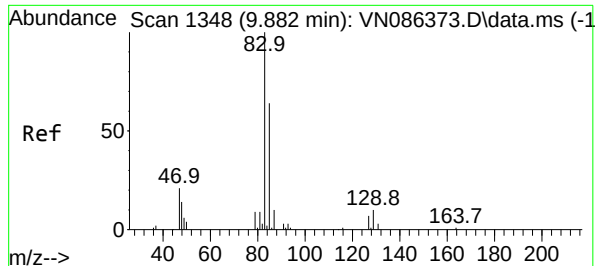
Ion Ratio Lower Upper

93 100

95 82.4 0.0 159.2

174 87.2 0.0 171.4





#41

Bromodichloromethane

Concen: 19.438 ug/l

RT: 9.882 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

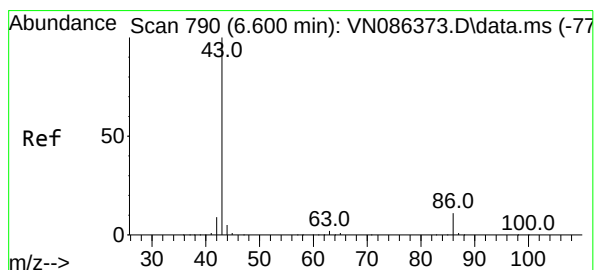
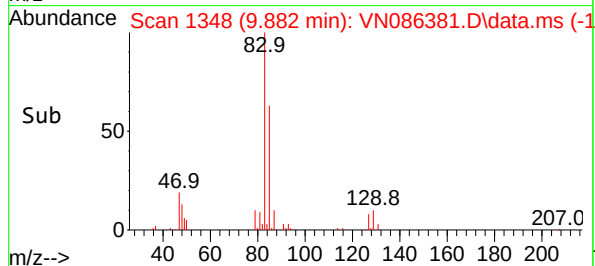
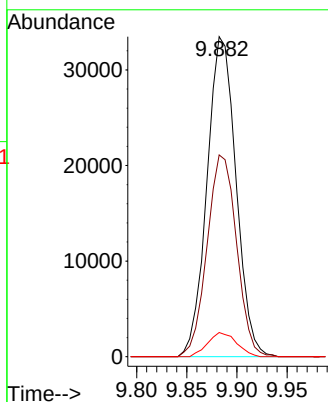
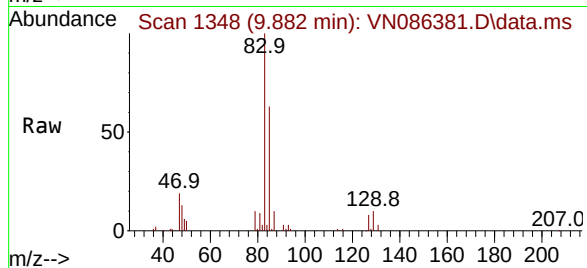
Tgt Ion:	83	Resp:	67350
Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.1	76.7
127	7.6	5.9	8.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#42

Vinyl Acetate

Concen: 98.241 ug/l

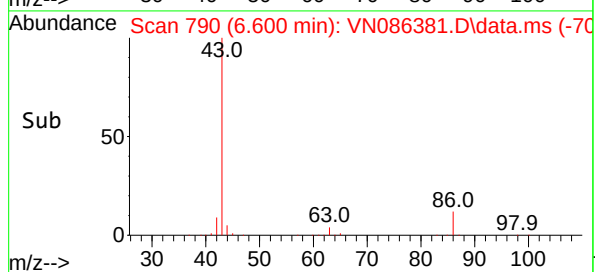
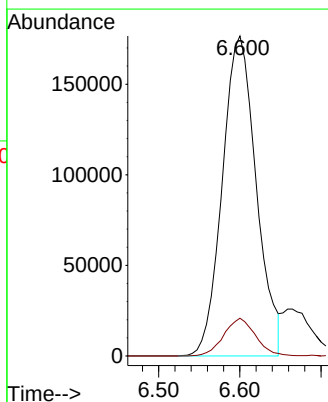
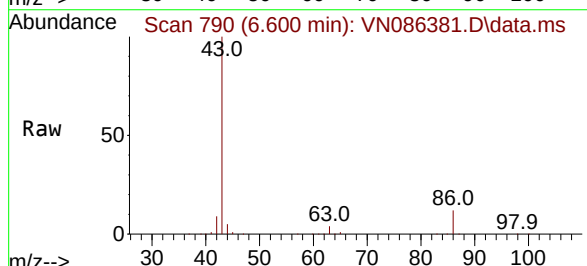
RT: 6.600 min Scan# 790

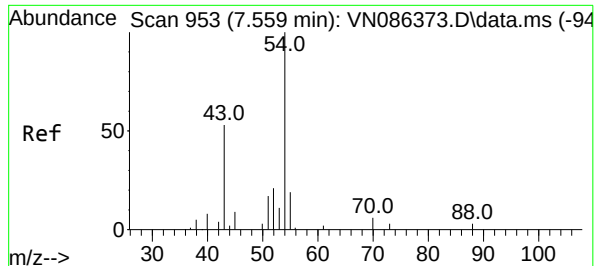
Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion:	43	Resp:	514738
Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.9	13.3





#43

Ethyl Acetate

Concen: 18.897 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 43 Resp: 56564

Ion Ratio Lower Upper

43 100

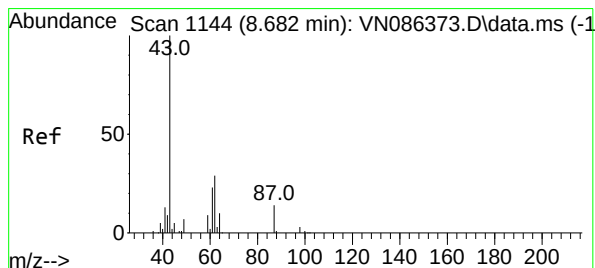
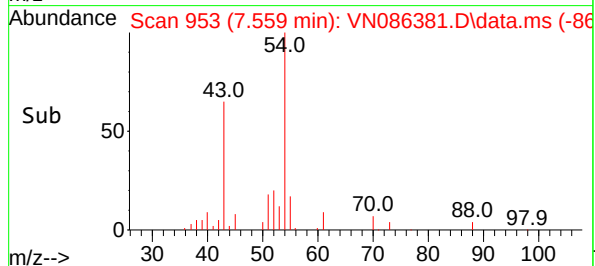
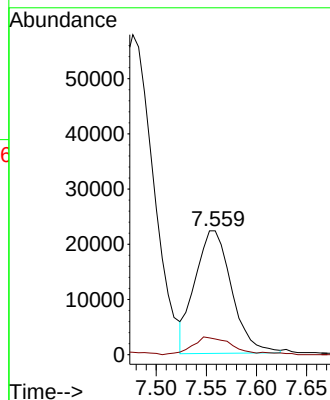
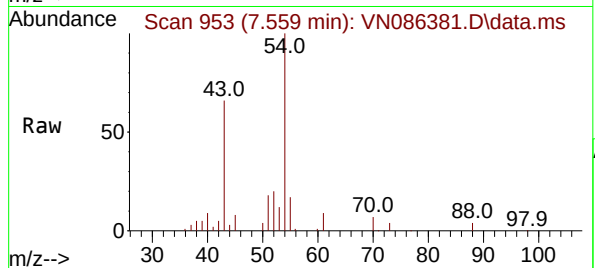
45 14.9 11.4 17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 19.805 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086381.D

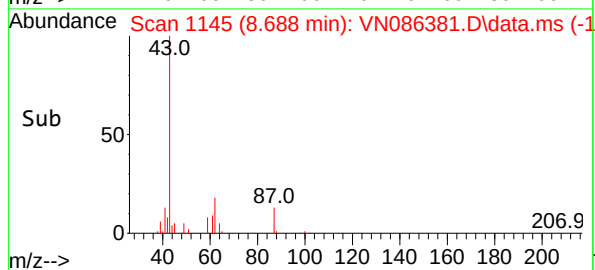
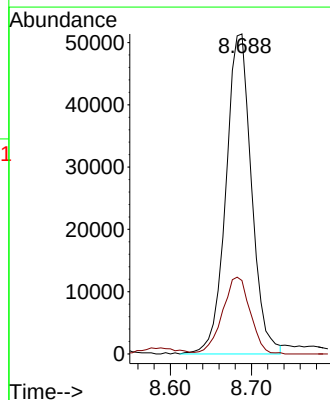
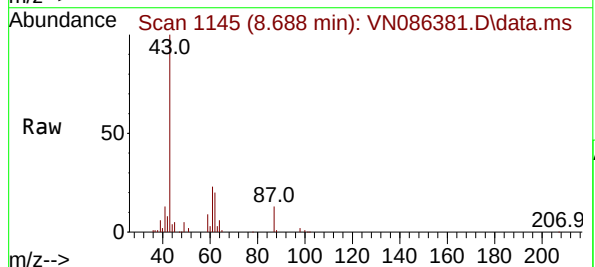
Acq: 23 Apr 2025 13:53

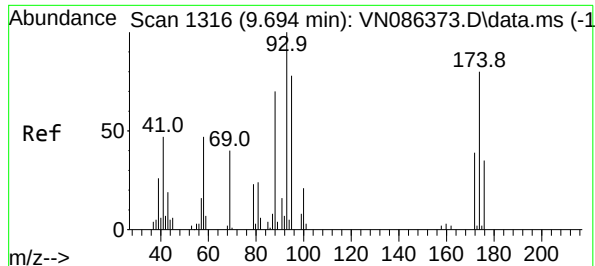
Tgt Ion: 43 Resp: 112514

Ion Ratio Lower Upper

43 100

61 25.4 21.0 31.4





#45

1,4-Dioxane

Concen: 411.534 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

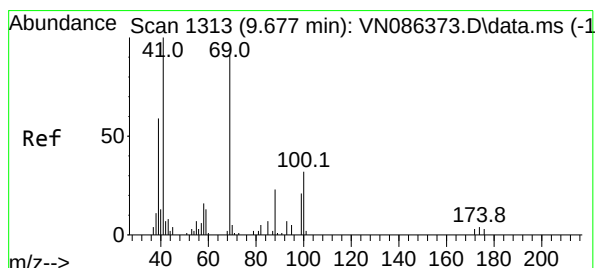
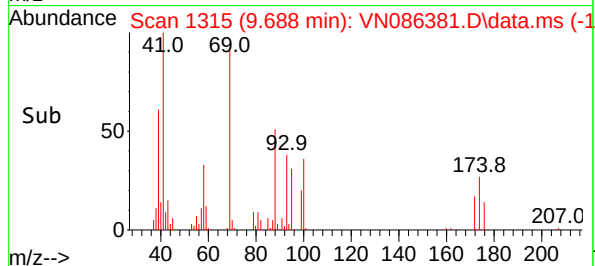
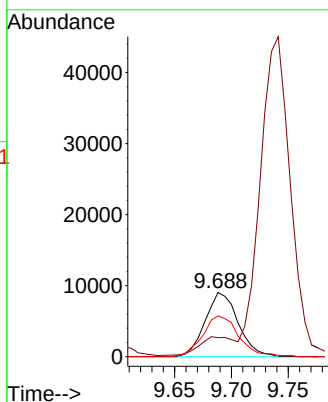
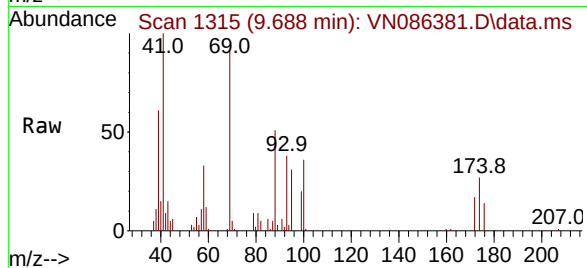
Tgt Ion:	88	Resp:	1824
Ion	Ratio	Lower	Upper
88	100		
43	31.7	24.9	37.3
58	69.3	57.8	86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 19.190 ug/l

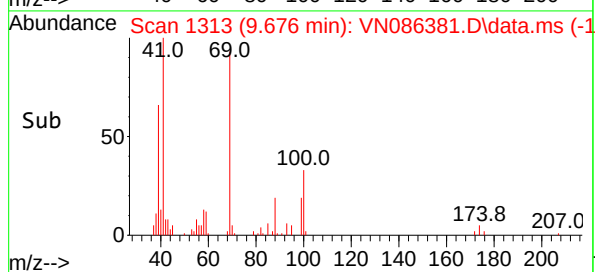
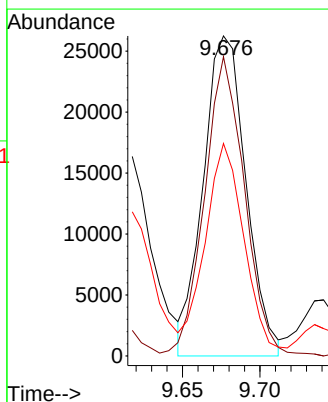
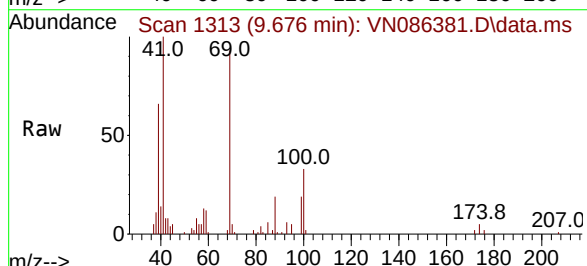
RT: 9.676 min Scan# 1313

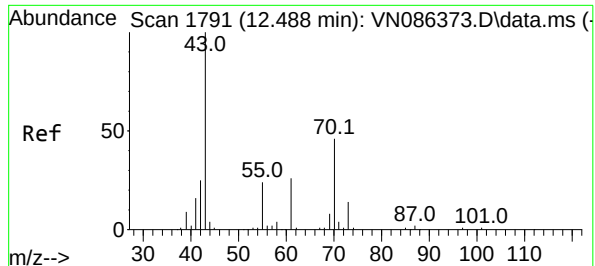
Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion:	41	Resp:	50286
Ion	Ratio	Lower	Upper
41	100		
69	95.5	44.1	132.3
39	66.9	30.0	90.1





#47

n-amy1 Acetate

Concen: 18.642 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 43 Resp: 90260

Ion Ratio Lower Upper

43 100

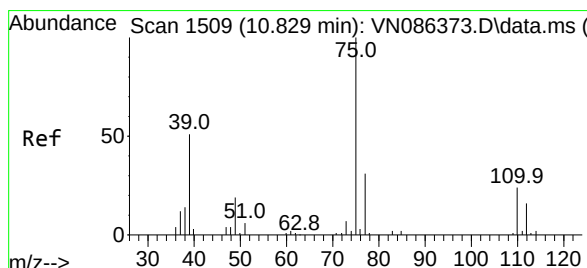
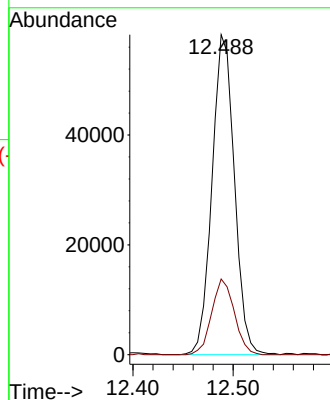
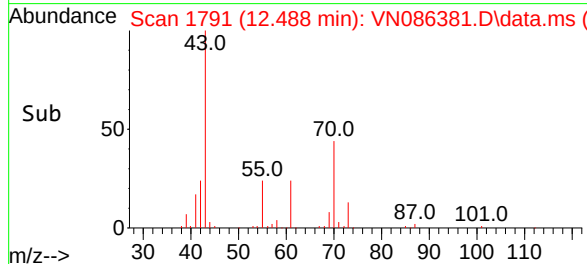
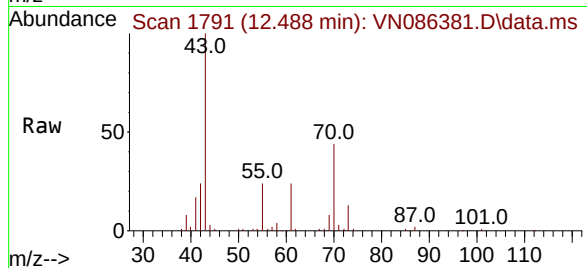
55 23.9 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#48

t-1,3-Dichloropropene

Concen: 19.167 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.006 min

Lab File: VN086381.D

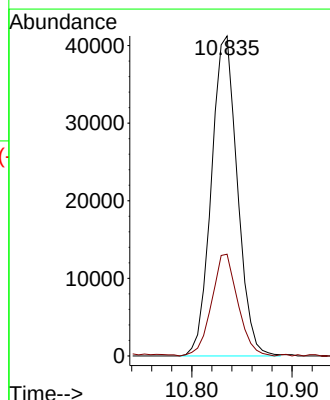
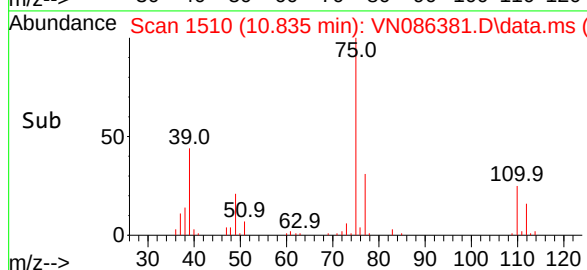
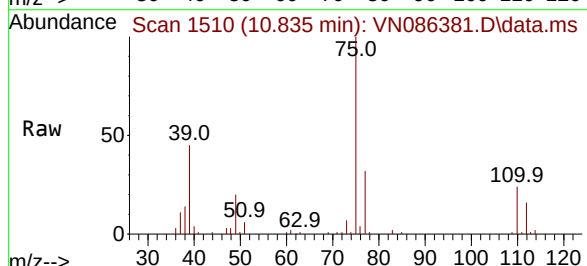
Acq: 23 Apr 2025 13:53

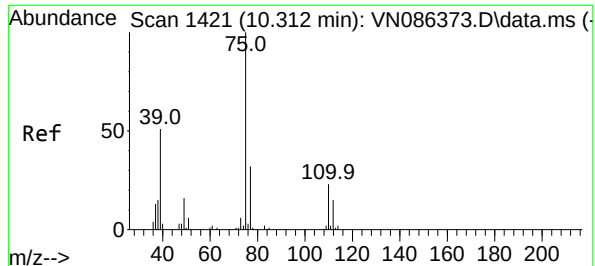
Tgt Ion: 75 Resp: 74255

Ion Ratio Lower Upper

75 100

77 31.8 24.4 36.6





#49

cis-1,3-Dichloropropene

Concen: 19.233 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

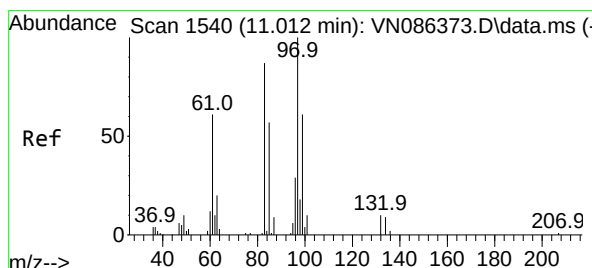
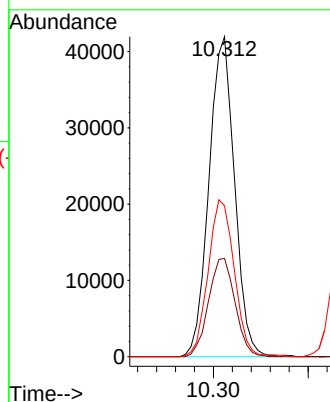
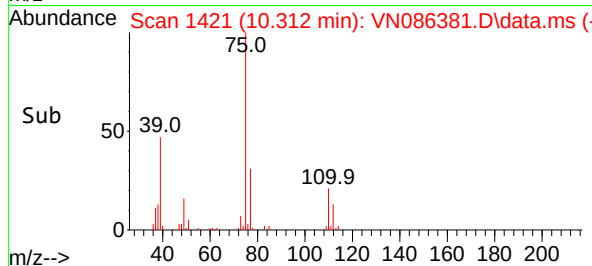
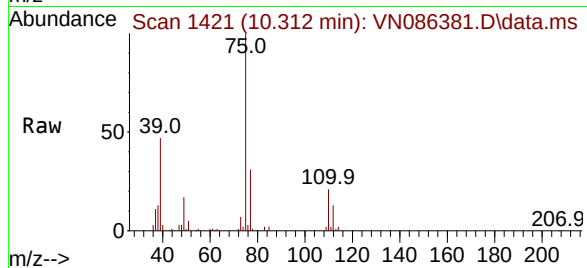
Tgt Ion:	75	Resp:	7857
Ion Ratio	Lower	Upper	
75	100		
77	30.7	25.6	38.4
39	47.2	40.6	60.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#50

1,1,2-Trichloroethane

Concen: 19.666 ug/l

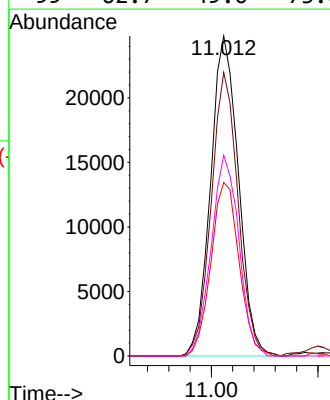
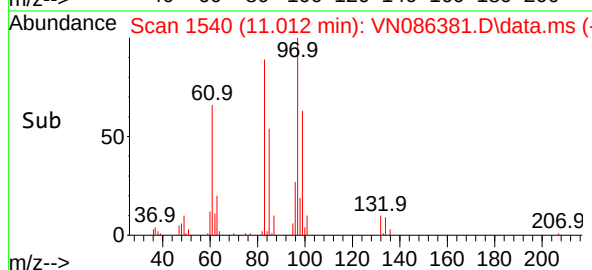
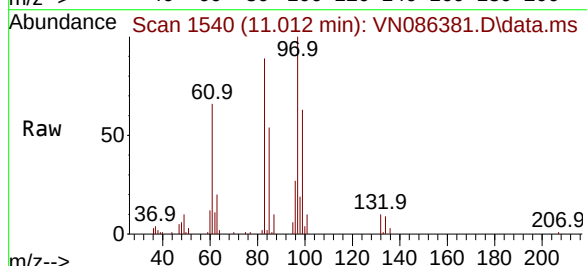
RT: 11.012 min Scan# 1540

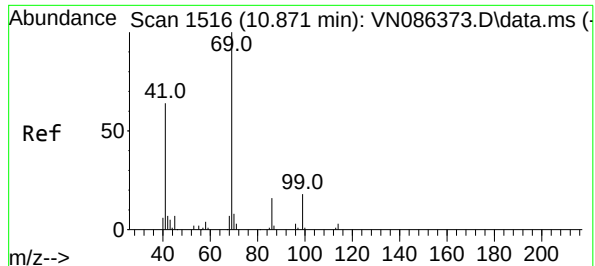
Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

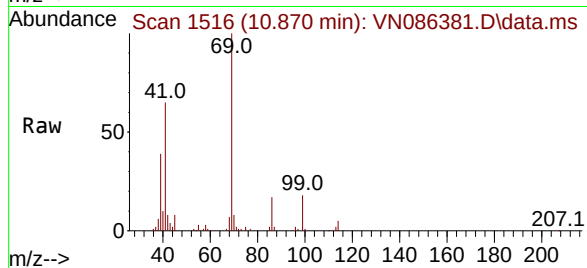
Tgt Ion:	97	Resp:	44981
Ion Ratio	Lower	Upper	
97	100		
83	88.6	69.3	103.9
85	54.2	45.5	68.3
99	62.7	49.0	73.6





#51
Ethyl methacrylate
Concen: 18.819 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

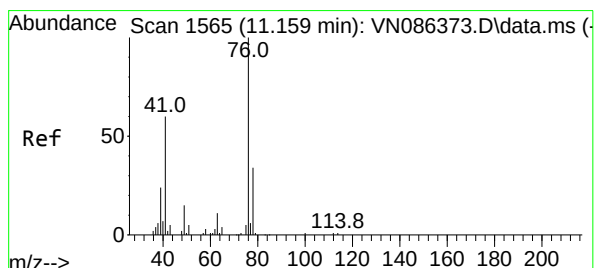
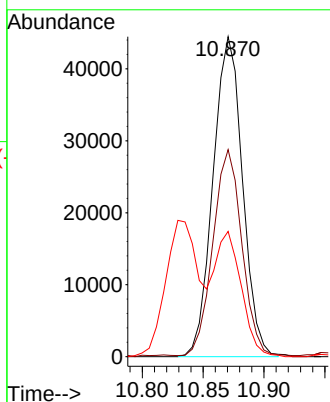
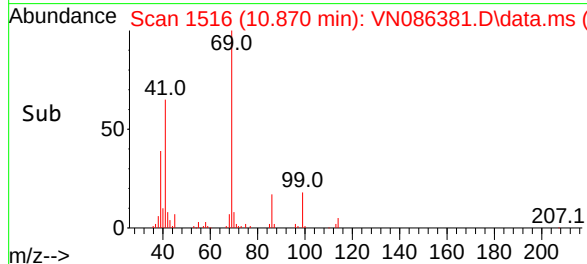
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion: 69 Resp: 74960
Ion Ratio Lower Upper
69 100
41 64.4 32.3 96.8
39 38.7 19.1 57.1

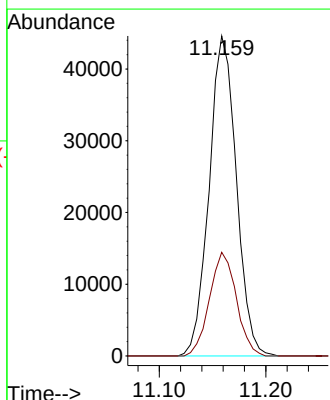
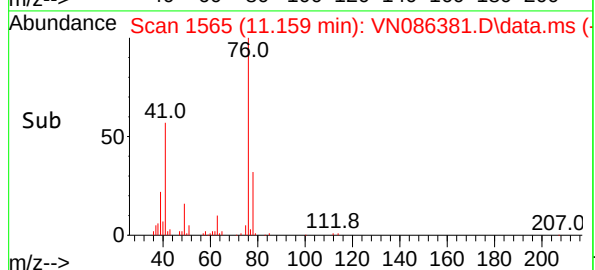
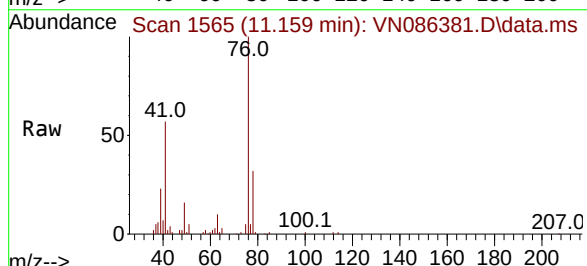
Manual Integrations
APPROVED

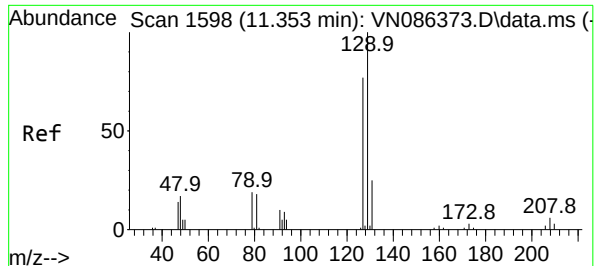
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 19.590 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

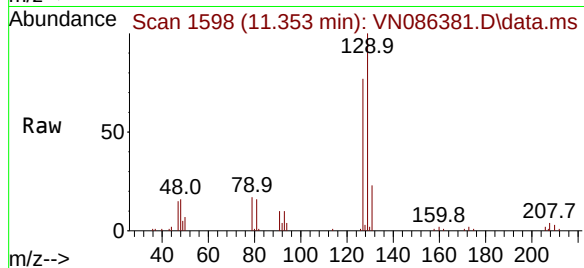
Tgt Ion: 76 Resp: 79190
Ion Ratio Lower Upper
76 100
78 32.0 0.0 65.6





#53
Dibromochloromethane
Concen: 18.927 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

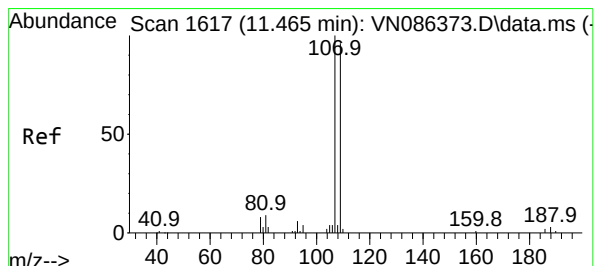
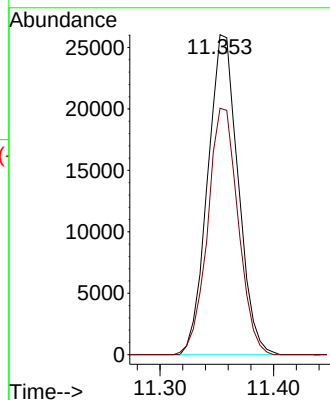
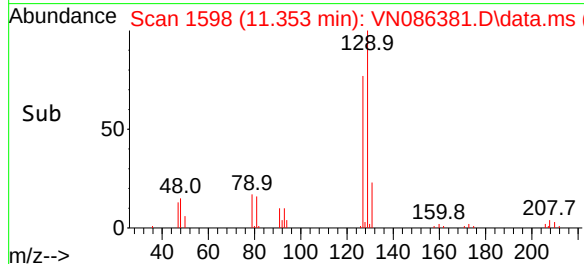
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



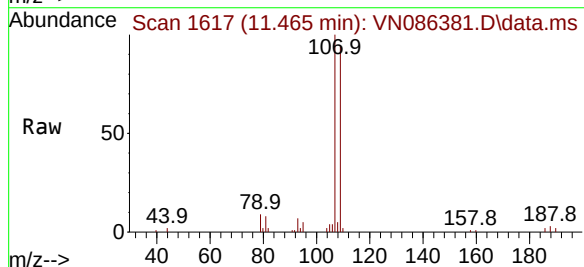
Tgt Ion:129 Resp: 4861
Ion Ratio Lower Upper
129 100
127 76.9 38.8 116.3

Manual Integrations
APPROVED

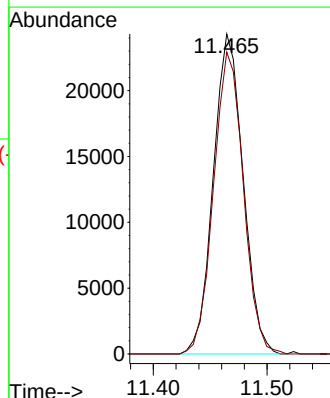
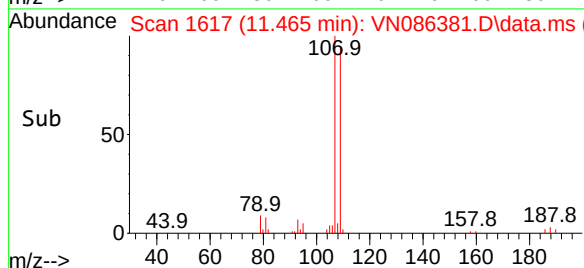
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

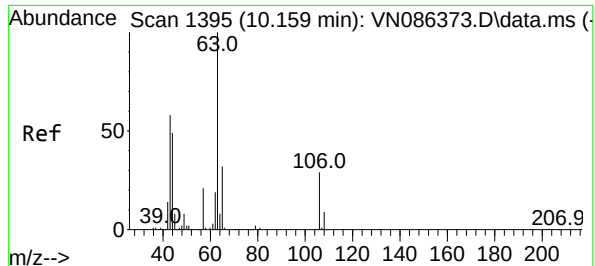


#54
1,2-Dibromoethane
Concen: 19.043 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53



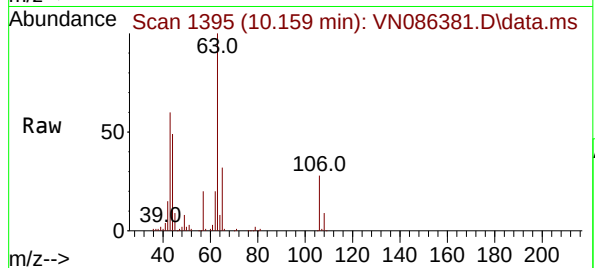
Tgt Ion:107 Resp: 44285
Ion Ratio Lower Upper
107 100
109 94.3 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 98.770 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

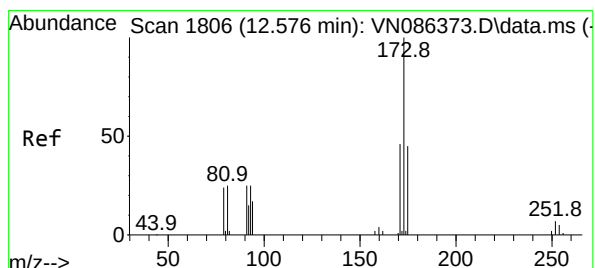
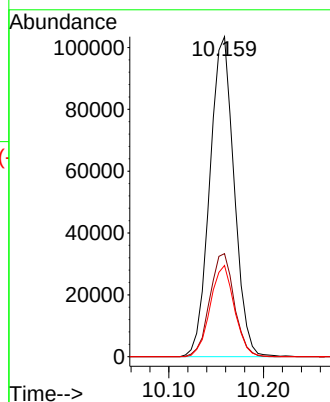
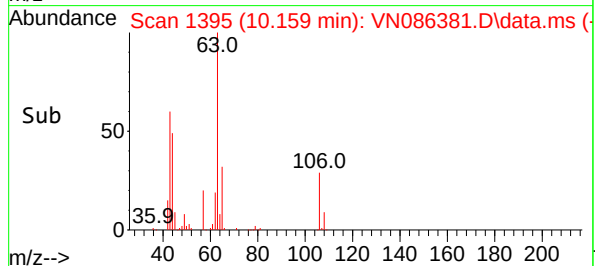
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion: 63 Resp: 184980
Ion Ratio Lower Upper
63 100
65 32.5 25.7 38.5
106 28.3 22.3 33.5

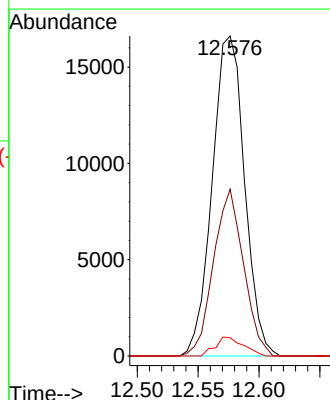
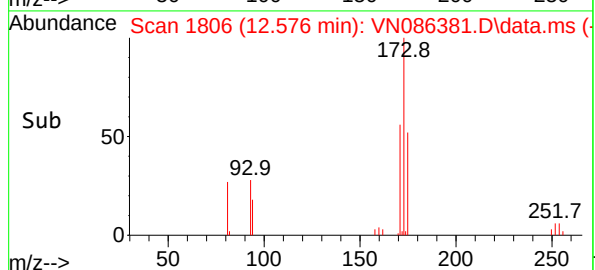
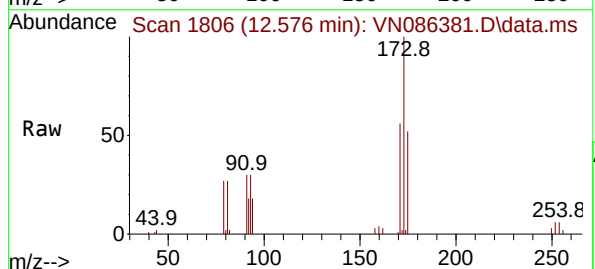
Manual Integrations
APPROVED

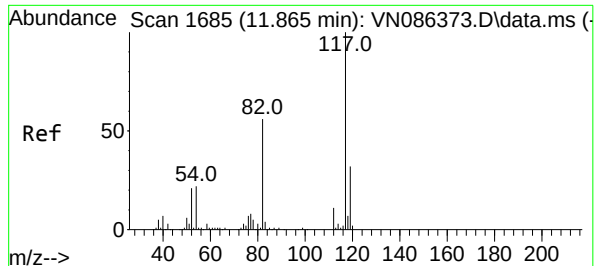
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 18.434 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

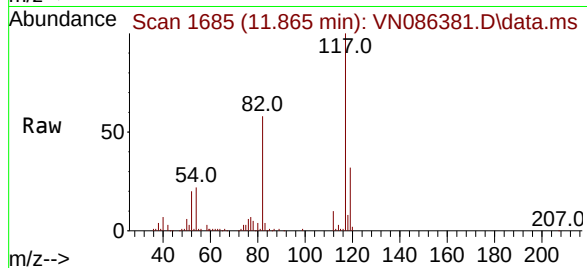
Tgt Ion:173 Resp: 30722
Ion Ratio Lower Upper
173 100
175 48.3 39.0 58.6
254 5.1 3.8 5.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

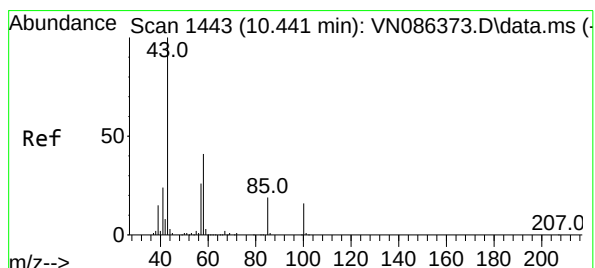
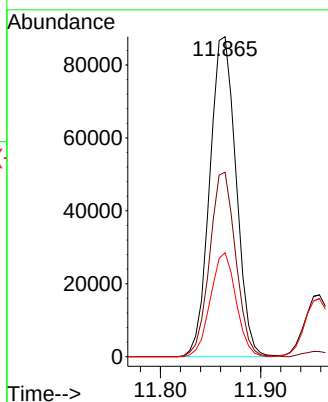
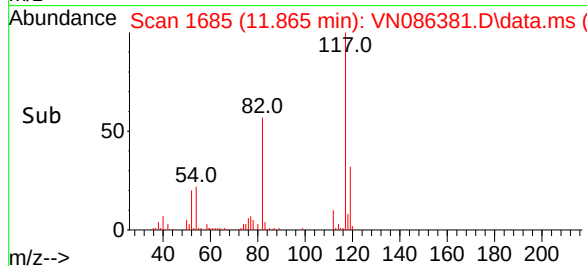
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion: 117 Resp: 16041
Ion Ratio Lower Upper
117 100
82 57.0 45.5 68.3
119 31.5 25.9 38.9

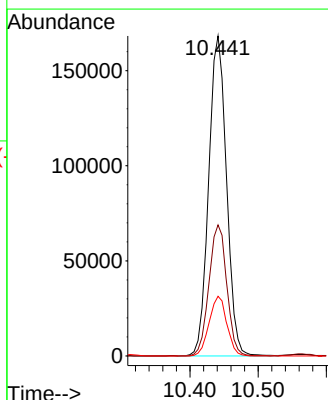
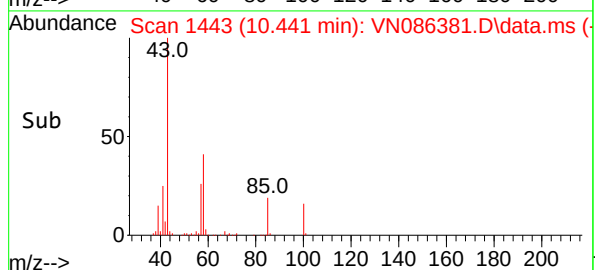
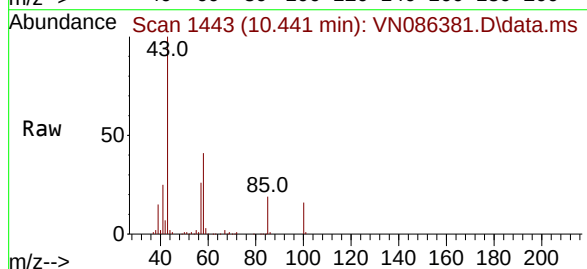
Manual Integrations
APPROVED

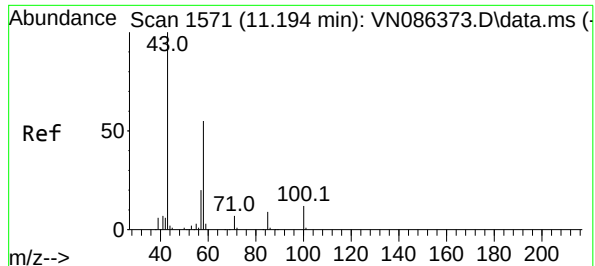
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 98.743 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

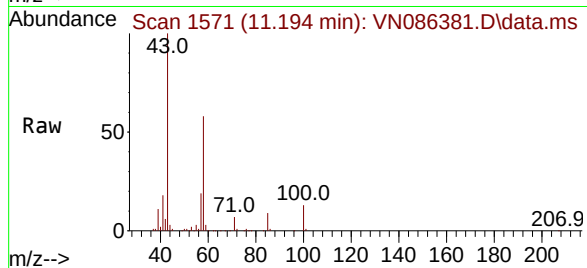
Tgt Ion: 43 Resp: 306519
Ion Ratio Lower Upper
43 100
58 40.9 33.0 49.6
85 18.5 14.9 22.3





#59
2-Hexanone
Concen: 98.060 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

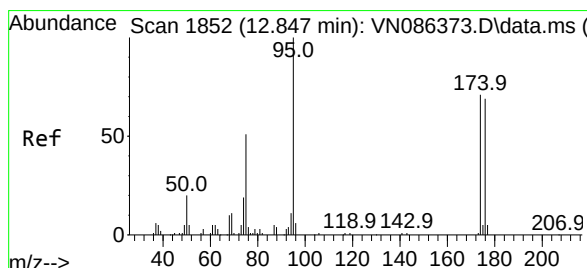
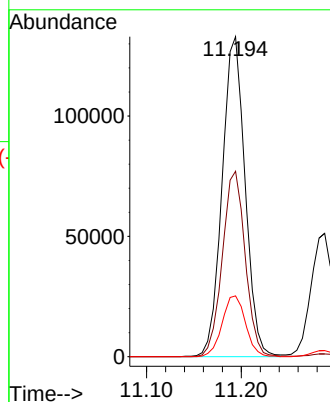
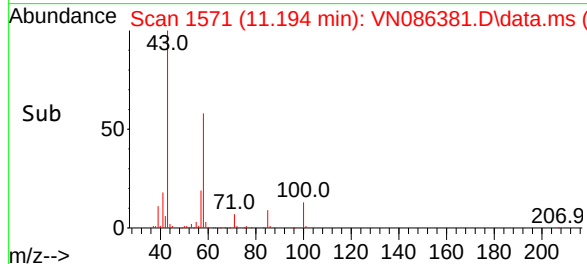
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion: 43 Resp: 224318
Ion Ratio Lower Upper
43 100
58 57.7 45.0 67.6
57 19.4 15.5 23.3

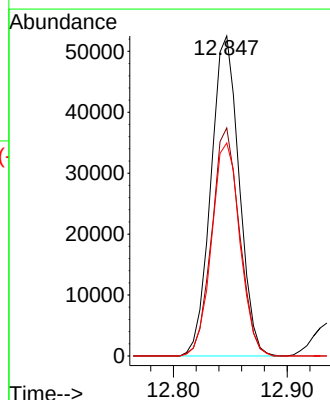
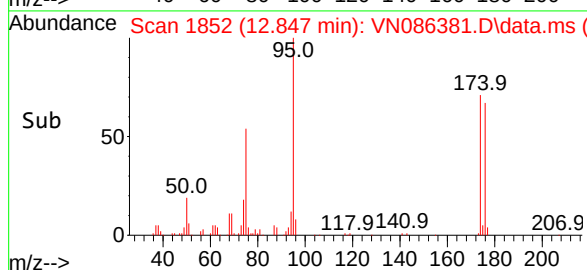
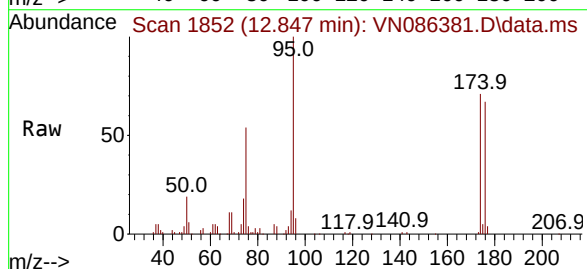
Manual Integrations
APPROVED

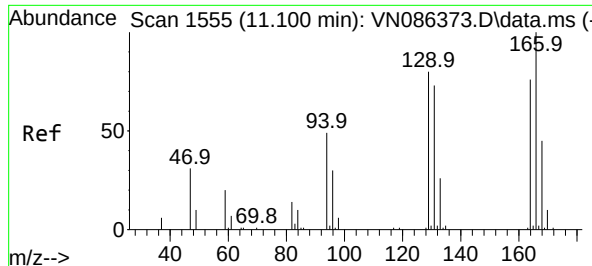
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#60
4-Bromofluorobenzene
Concen: 28.685 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

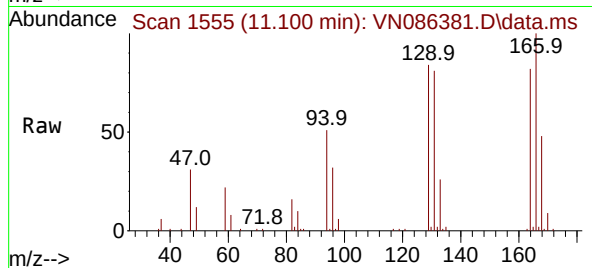
Tgt Ion: 95 Resp: 90439
Ion Ratio Lower Upper
95 100
174 70.0 56.6 84.8
176 66.9 53.3 79.9





#61
Tetrachloroethene
Concen: 19.102 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

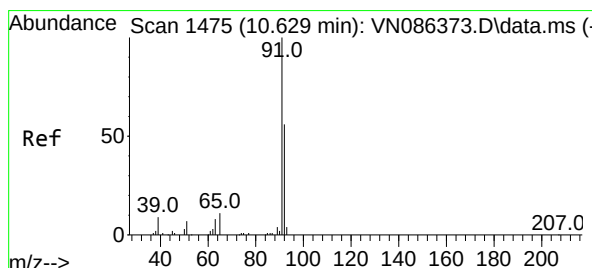
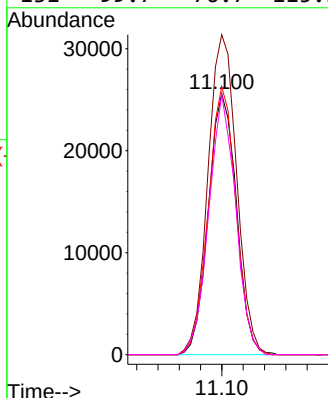
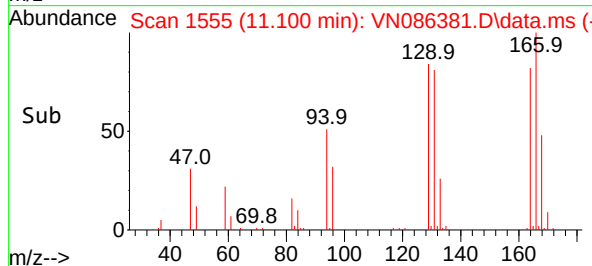
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:164 Resp: 46730
Ion Ratio Lower Upper
164 100
166 122.6 105.0 157.4
129 102.8 83.9 125.9
131 99.7 76.7 115.1

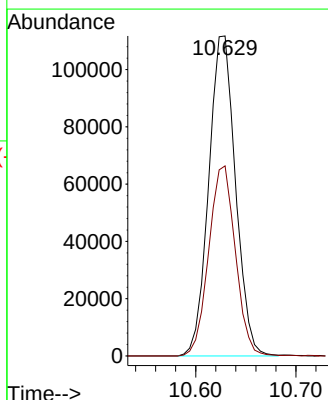
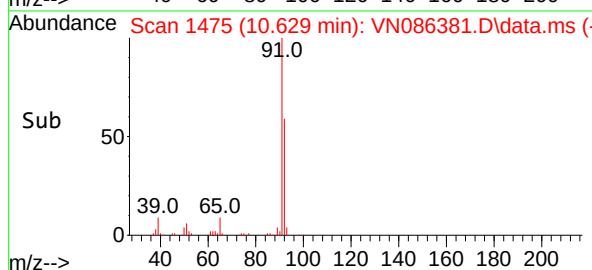
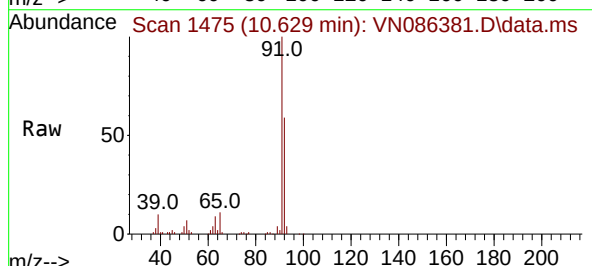
Manual Integrations
APPROVED

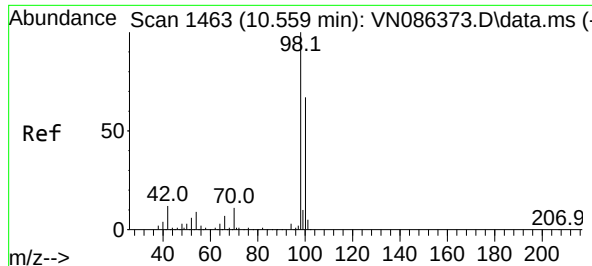
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#62
Toluene
Concen: 19.339 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

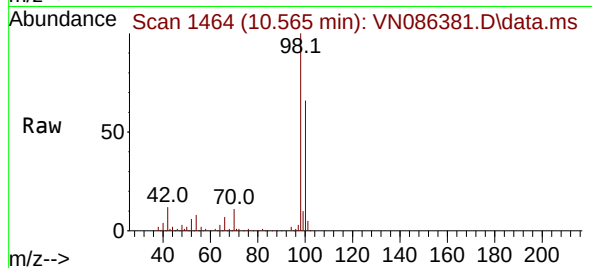
Tgt Ion: 91 Resp: 207649
Ion Ratio Lower Upper
91 100
92 59.0 45.7 68.5





#63
Toluene-d8
Concen: 30.100 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

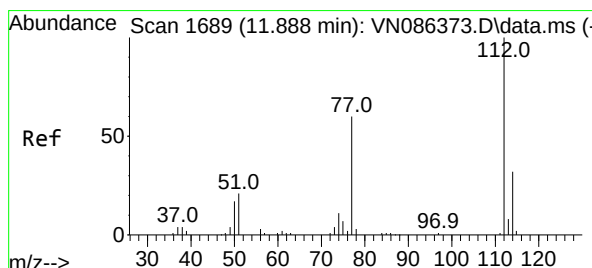
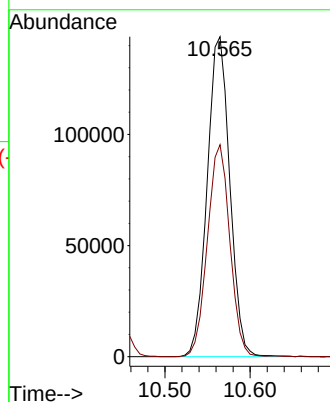
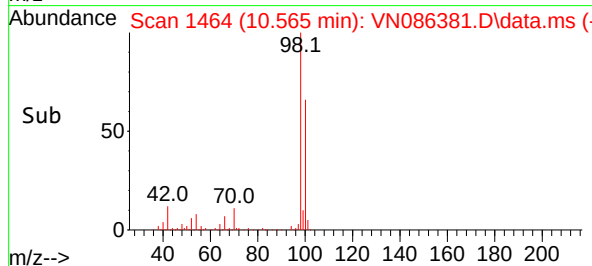
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion: 98 Resp: 265630
Ion Ratio Lower Upper
98 100
100 65.6 53.1 79.7

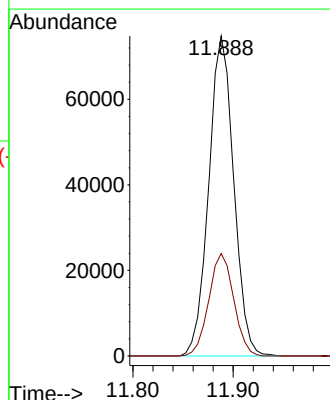
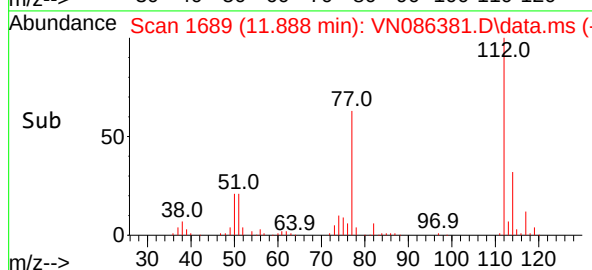
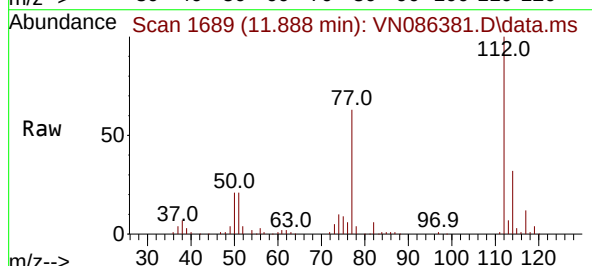
Manual Integrations
APPROVED

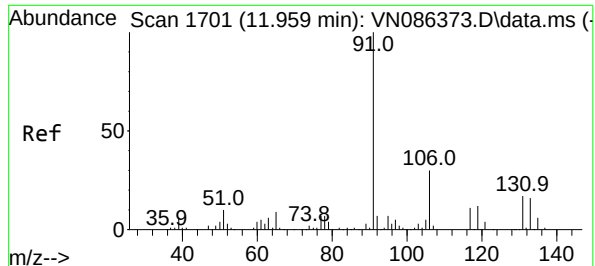
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 19.378 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

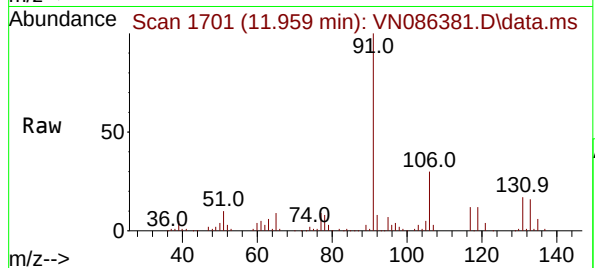
Tgt Ion:112 Resp: 129646
Ion Ratio Lower Upper
112 100
114 32.0 25.6 38.4





#65
1,1,1,2-Tetrachloroethane
Concen: 19.270 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

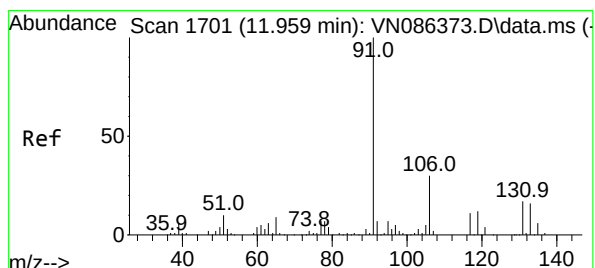
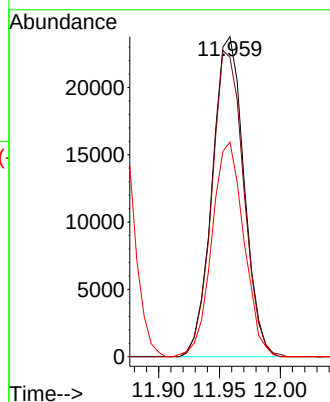
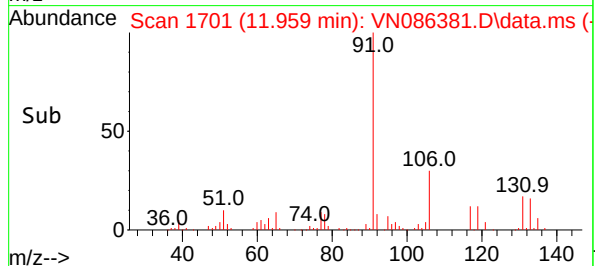
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:131 Resp: 43109
Ion Ratio Lower Upper
131 100
133 96.1 0.0 191.4
119 67.6 0.0 133.6

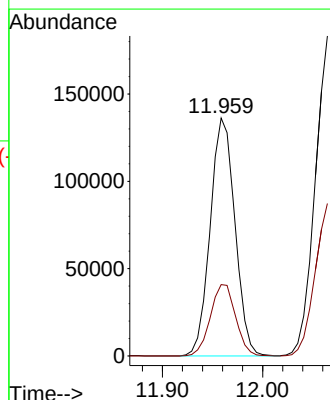
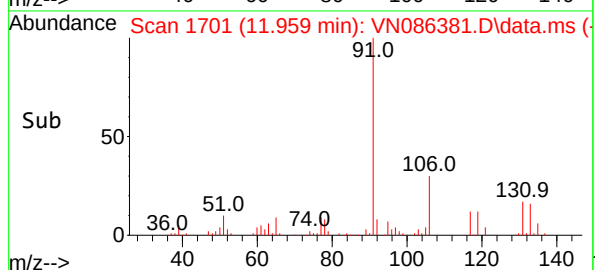
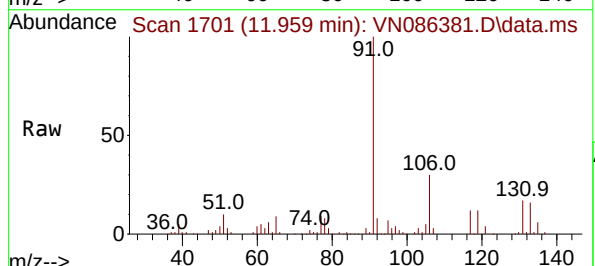
Manual Integrations
APPROVED

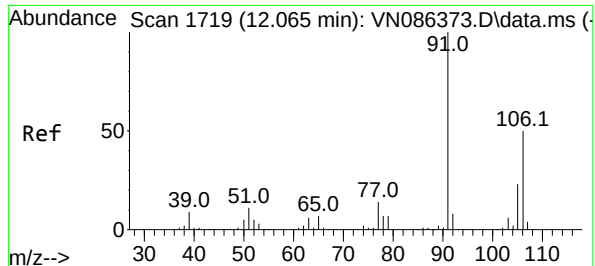
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#66
Ethyl Benzene
Concen: 19.345 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 91 Resp: 233802
Ion Ratio Lower Upper
91 100
106 30.0 24.3 36.5





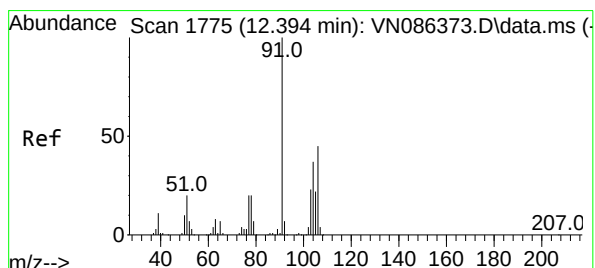
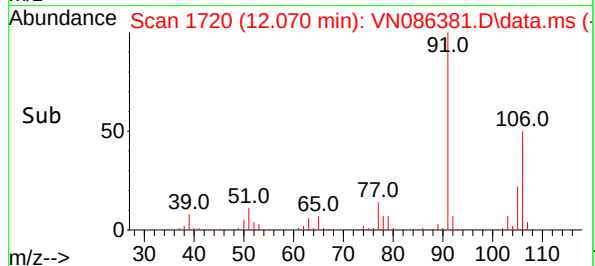
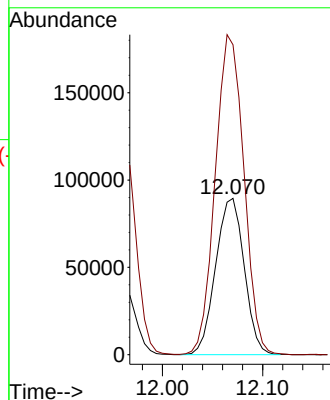
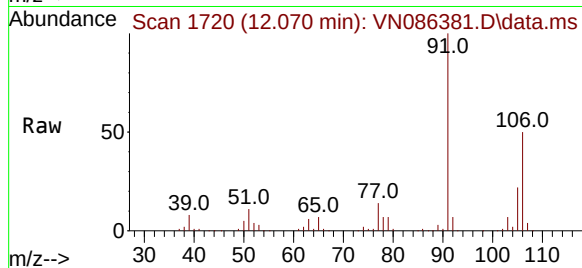
#67
m/p-Xylenes
Concen: 38.625 ug/l
RT: 12.070 min Scan# 1719
Delta R.T. 0.006 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion:106 Resp: 177124
Ion Ratio Lower Upper
106 100
91 205.2 162.6 243.8

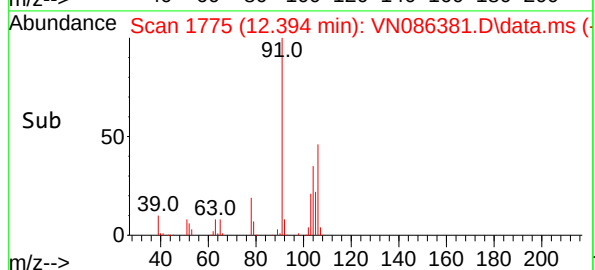
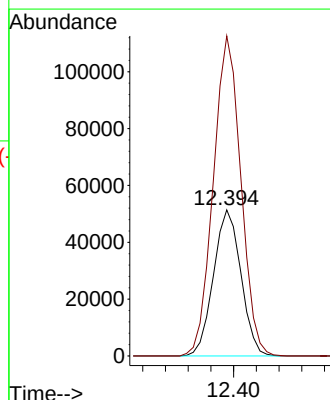
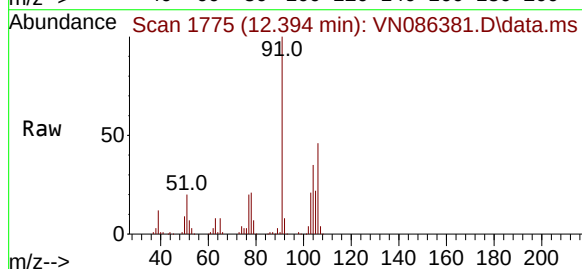
Manual Integrations
APPROVED

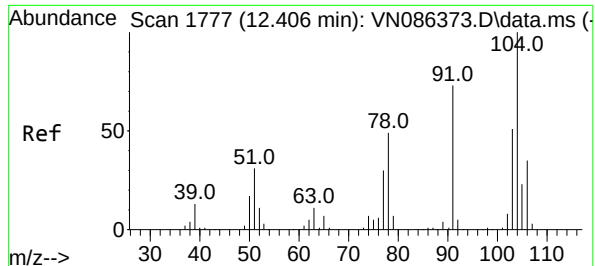
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 19.209 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion:106 Resp: 86250
Ion Ratio Lower Upper
106 100
91 219.8 110.6 331.6





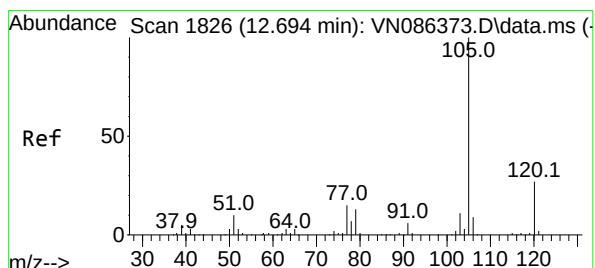
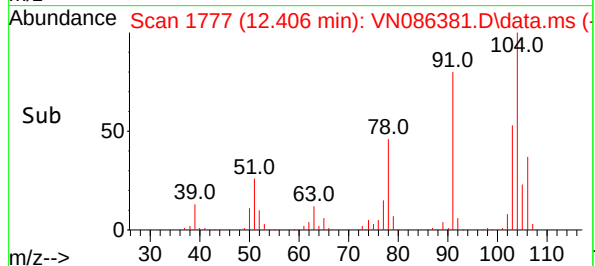
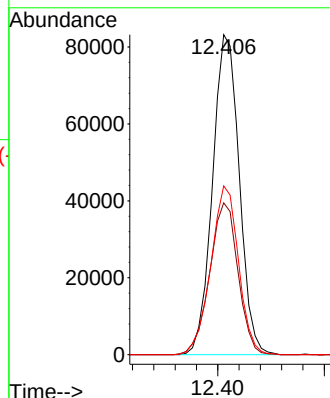
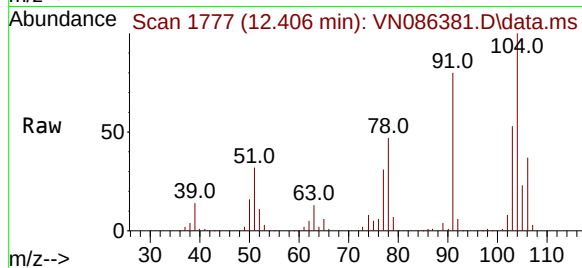
#69
Styrene
Concen: 19.014 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion:104 Resp: 144708
Ion Ratio Lower Upper
104 100
78 50.2 40.2 60.4
103 54.7 43.8 65.8

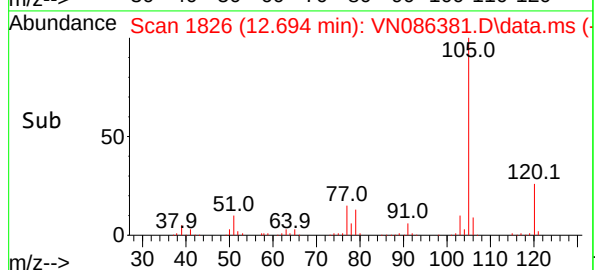
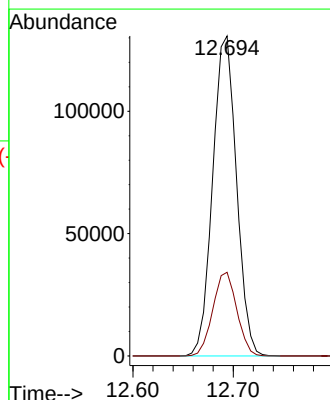
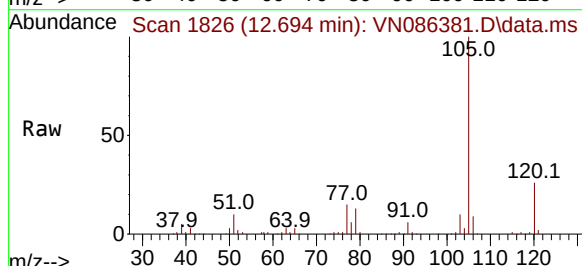
Manual Integrations
APPROVED

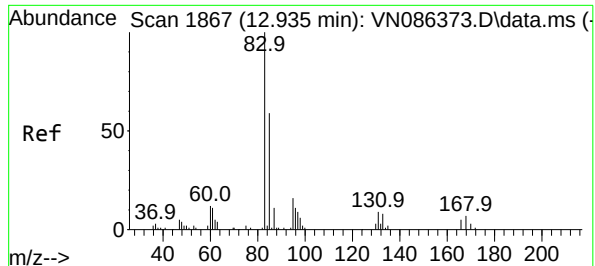
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#70
Isopropylbenzene
Concen: 19.236 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion:105 Resp: 215598
Ion Ratio Lower Upper
105 100
120 26.3 18.2 33.8





#71

1,1,2-Tetrachloroethane

Concen: 20.382 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

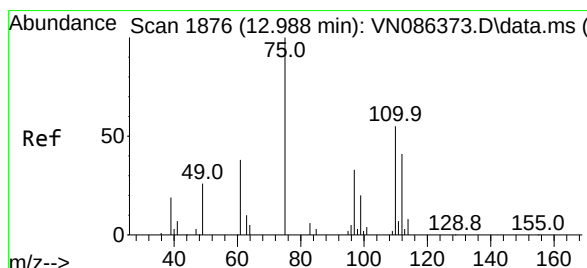
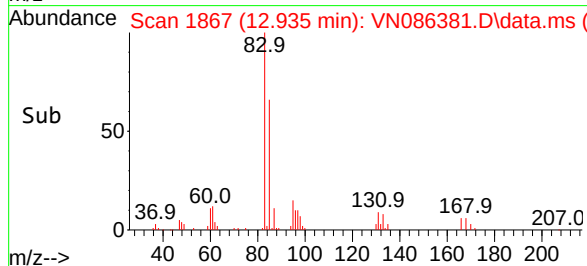
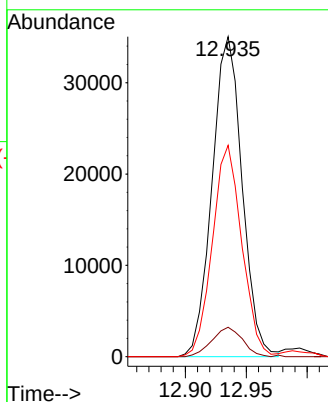
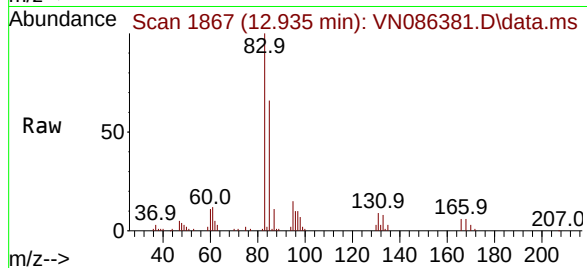
Tgt Ion:	83	Resp:	6015
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	64.6	31.7	95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#72

1,2,3-Trichloropropane

Concen: 19.624 ug/l m

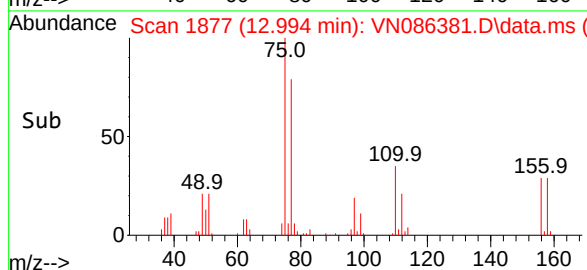
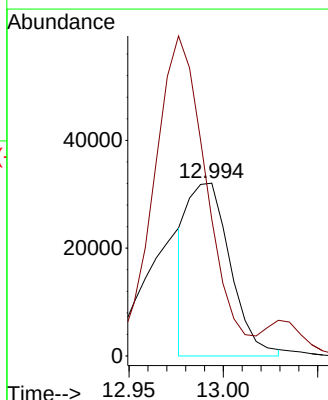
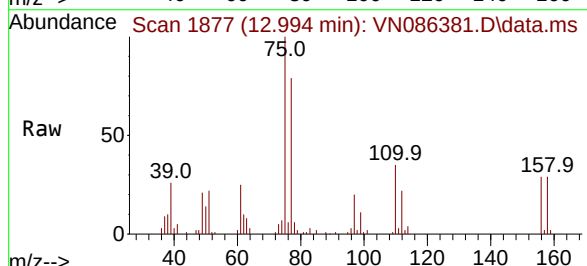
RT: 12.994 min Scan# 1877

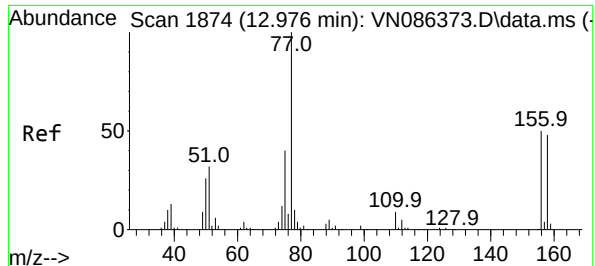
Delta R.T. 0.006 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

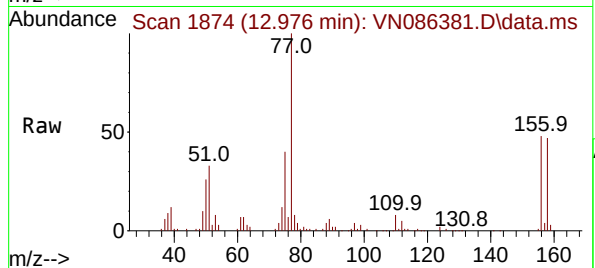
Tgt Ion:	75	Resp:	50492
Ion	Ratio	Lower	Upper
75	100		
77	230.2	0.0	464.4





#73
Bromobenzene
Concen: 19.266 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

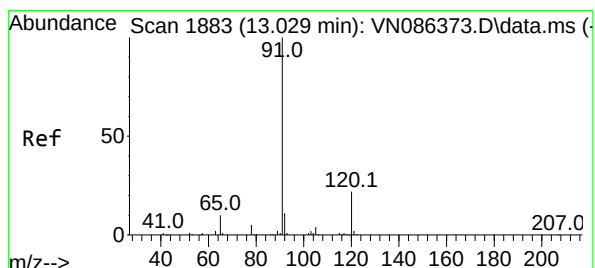
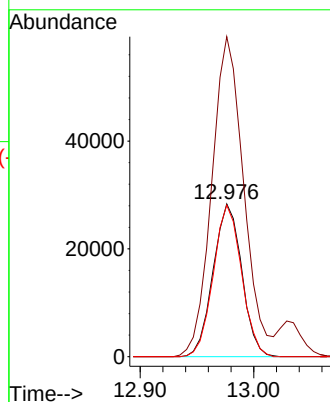
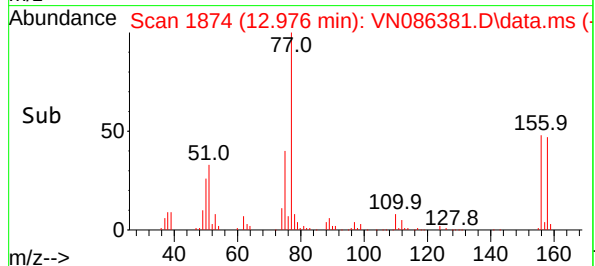
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:156 Resp: 49649
Ion Ratio Lower Upper
156 100
77 234.1 0.0 463.4
158 97.7 0.0 191.8

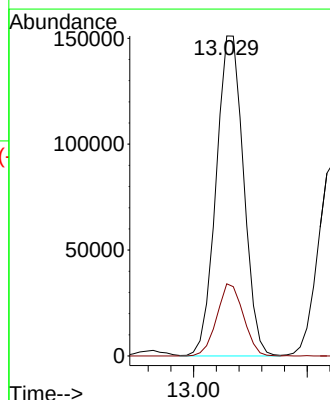
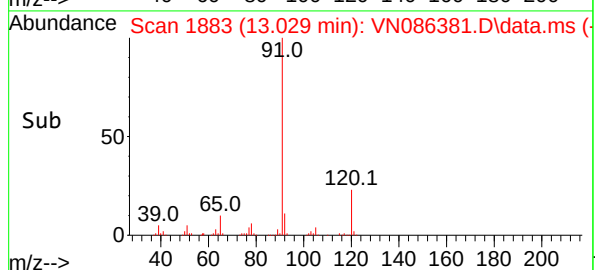
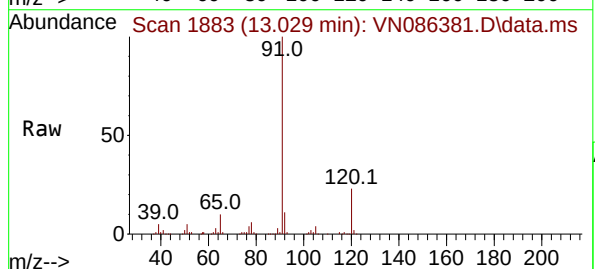
Manual Integrations
APPROVED

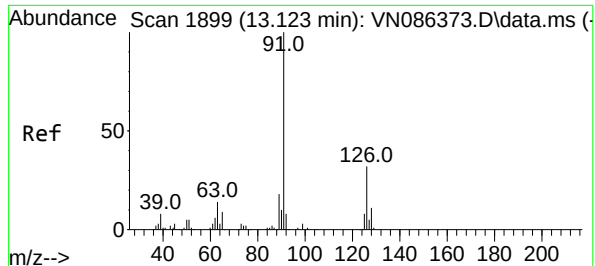
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 19.064 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 91 Resp: 253908
Ion Ratio Lower Upper
91 100
120 21.7 0.0 43.8





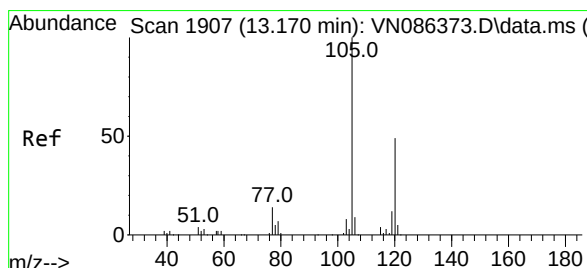
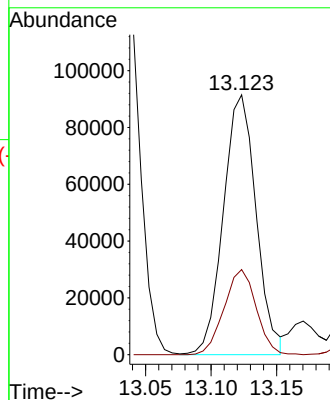
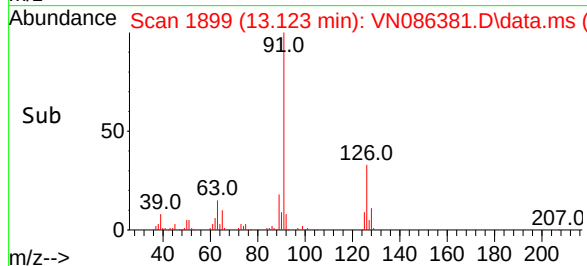
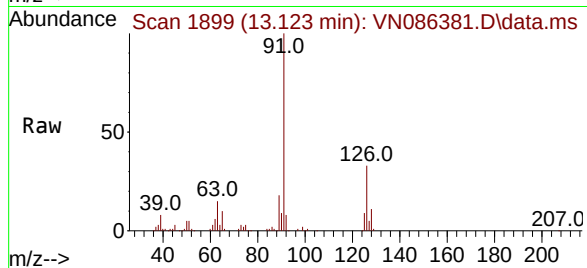
#75
2-Chlorotoluene
Concen: 19.133 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion: 91 Resp: 159080
Ion Ratio Lower Upper
91 100
126 32.1 0.0 65.0

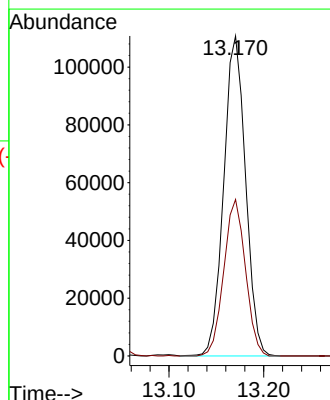
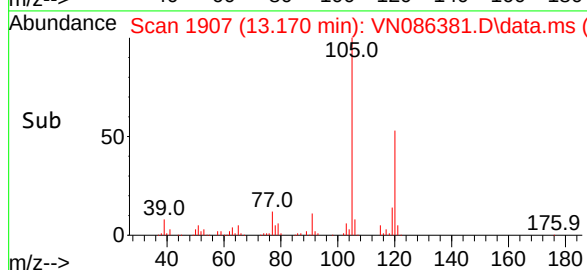
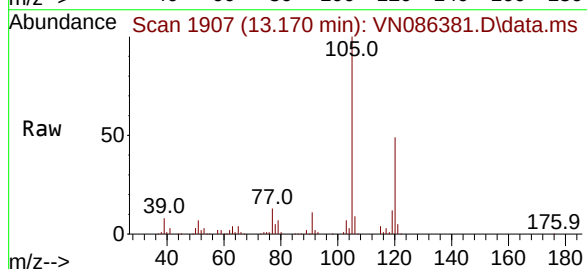
Manual Integrations
APPROVED

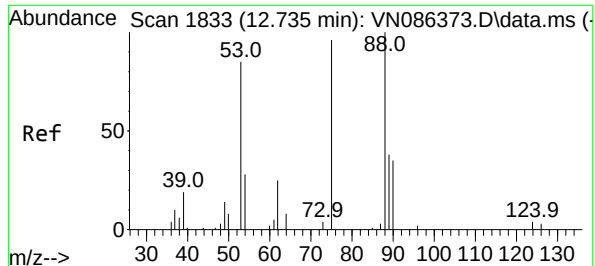
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.311 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion:105 Resp: 177597
Ion Ratio Lower Upper
105 100
120 48.5 0.0 97.6





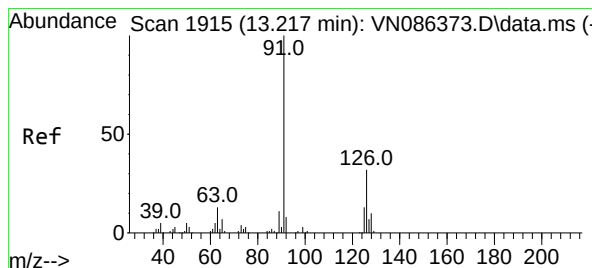
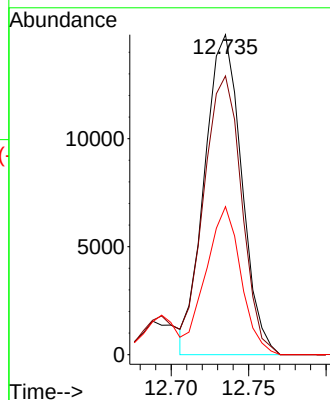
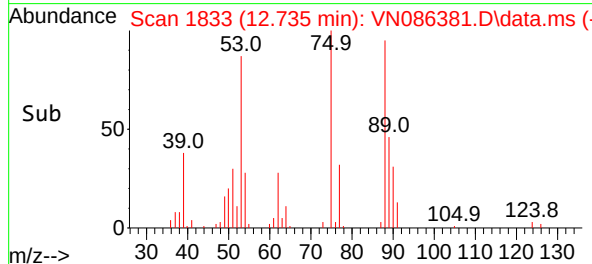
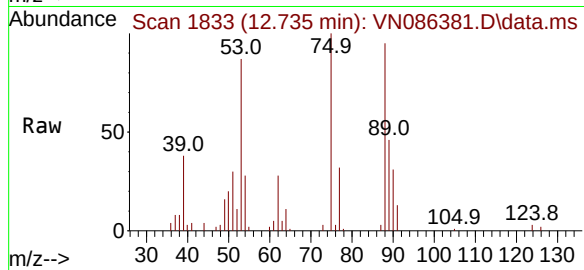
#77
t-1,4-Dichloro-2-butene
Concen: 18.884 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325

Tgt Ion: 75 Resp: 24658
Ion Ratio Lower Upper
75 100
53 87.1 46.0 138.0
89 46.2 21.6 64.6

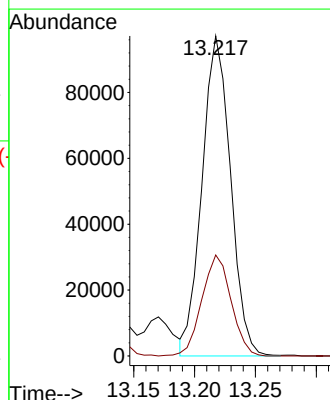
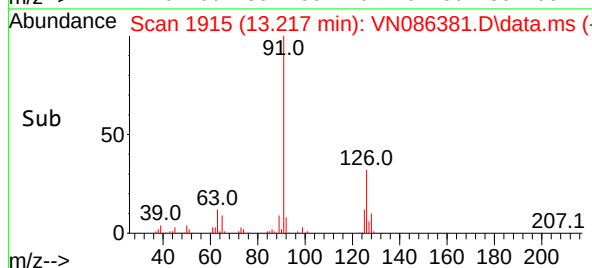
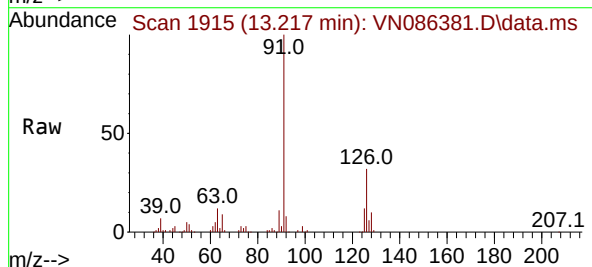
Manual Integrations
APPROVED

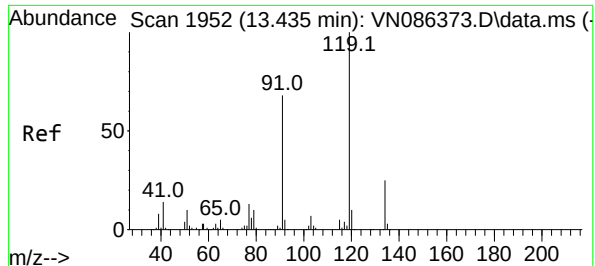
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#78
4-Chlorotoluene
Concen: 19.044 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion: 91 Resp: 158316
Ion Ratio Lower Upper
91 100
126 32.3 0.0 65.4





#79

tert-butylbenzene

Concen: 19.180 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion:119 Resp: 151069

Ion Ratio Lower Upper

119 100

91 68.4 0.0 137.4

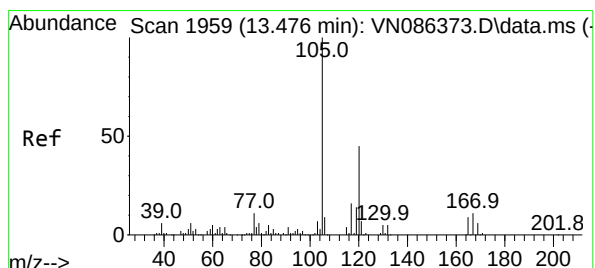
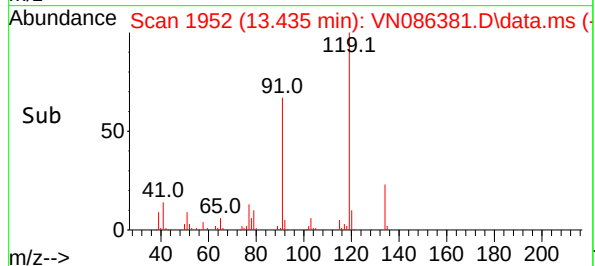
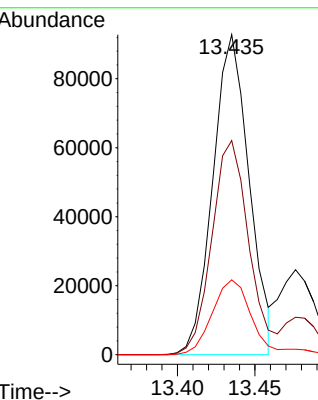
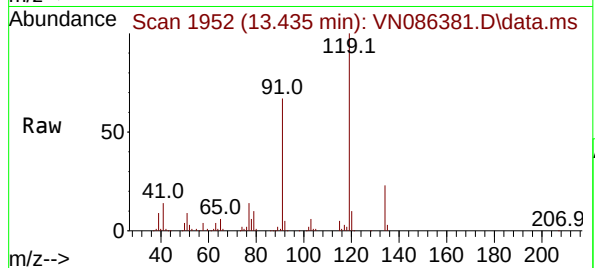
134 24.6 0.0 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#80

1,2,4-Trimethylbenzene

Concen: 19.103 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086381.D

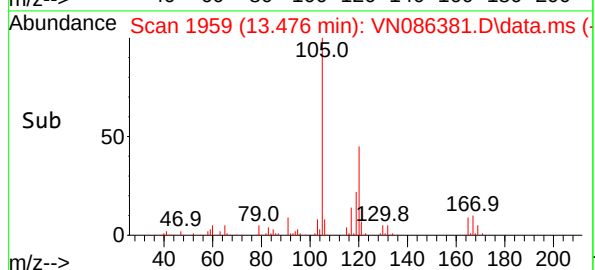
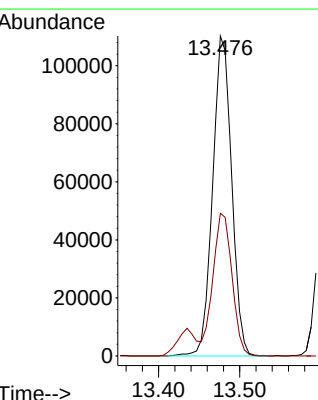
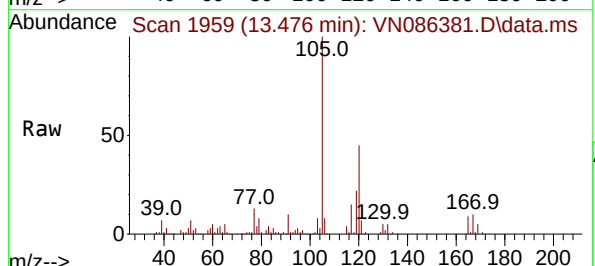
Acq: 23 Apr 2025 13:53

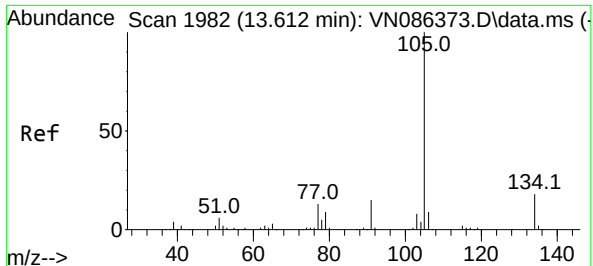
Tgt Ion:105 Resp: 179423

Ion Ratio Lower Upper

105 100

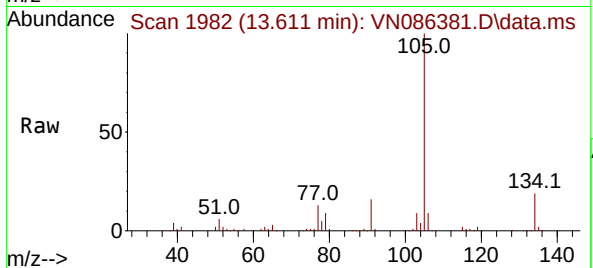
120 44.7 0.0 87.6





#81
sec-Butylbenzene
Concen: 19.091 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

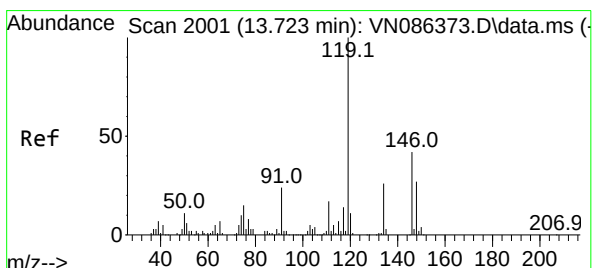
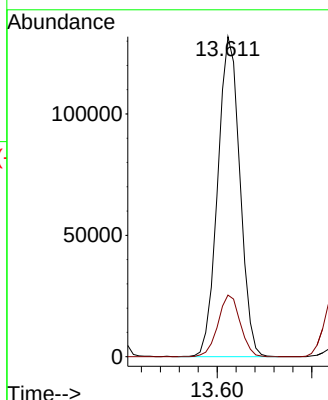
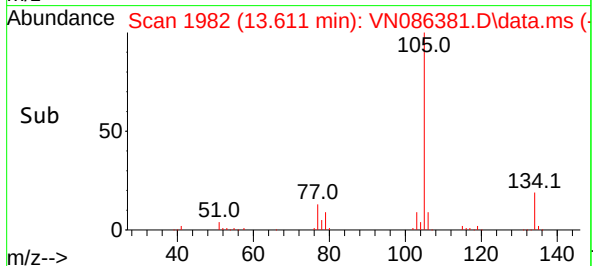
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:105 Resp: 214645
Ion Ratio Lower Upper
105 100
134 19.2 0.0 38.4

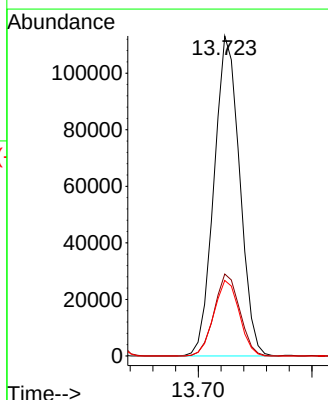
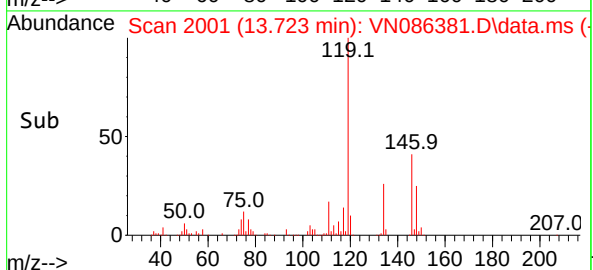
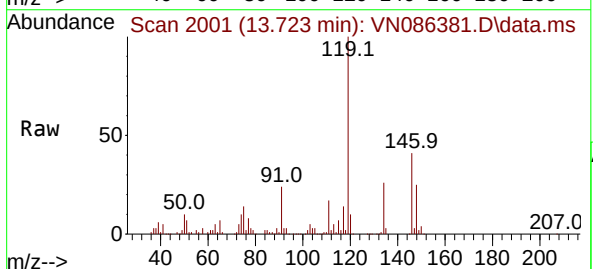
Manual Integrations
APPROVED

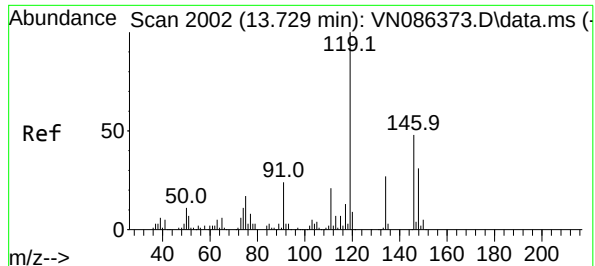
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#82
p-Isopropyltoluene
Concen: 18.866 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion:119 Resp: 177486
Ion Ratio Lower Upper
119 100
134 25.4 0.0 52.2
91 23.4 0.0 47.6





#83

1,3-Dichlorobenzene

Concen: 18.889 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

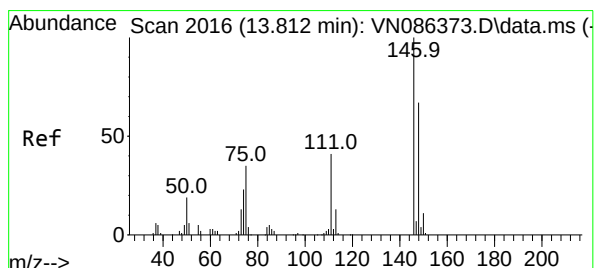
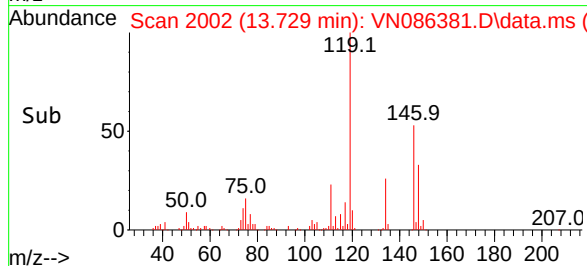
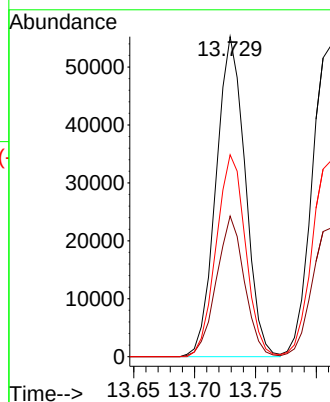
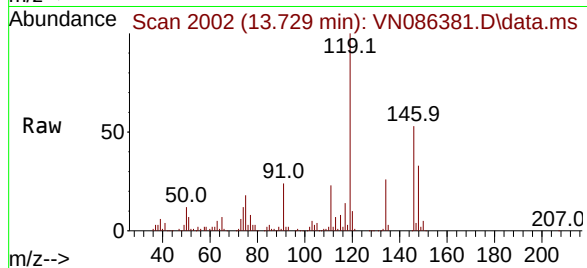
Tgt Ion:	146	Resp:	92009
Ion Ratio	Lower	Upper	
146	100		
111	42.4	20.7	62.1
148	63.4	32.3	96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#84

1,4-Dichlorobenzene

Concen: 19.142 ug/l

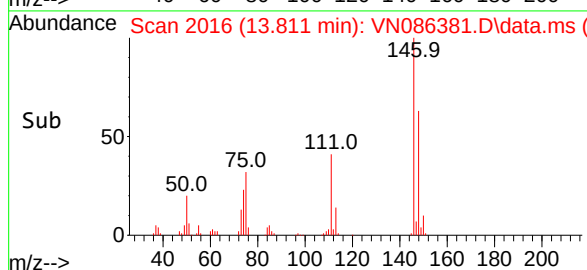
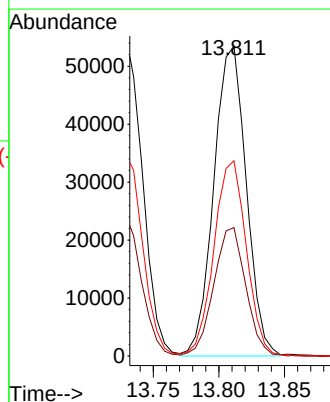
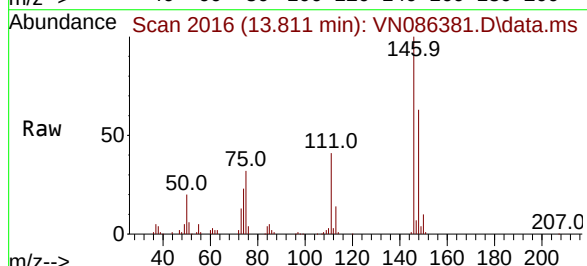
RT: 13.811 min Scan# 2016

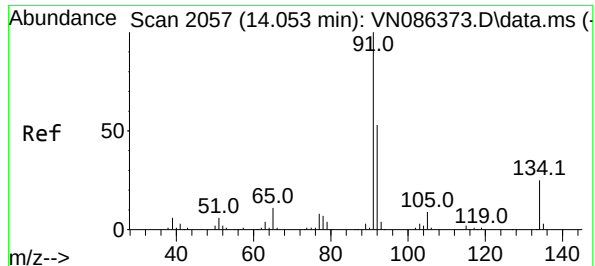
Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion:	146	Resp:	92122
Ion Ratio	Lower	Upper	
146	100		
111	40.8	20.3	60.8
148	63.0	32.4	97.2





#85

n-Butylbenzene

Concen: 18.762 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion: 91 Resp: 157490

Ion Ratio Lower Upper

91 100

92 53.5 0.0 107.2

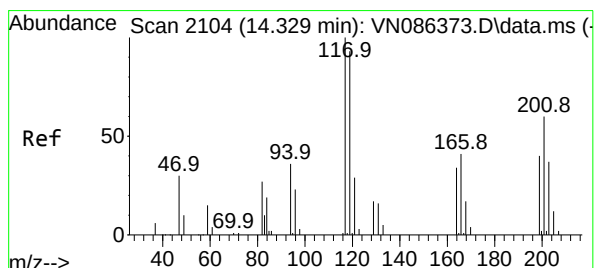
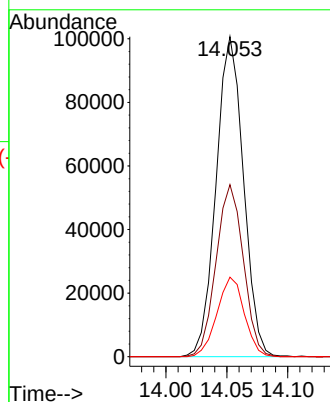
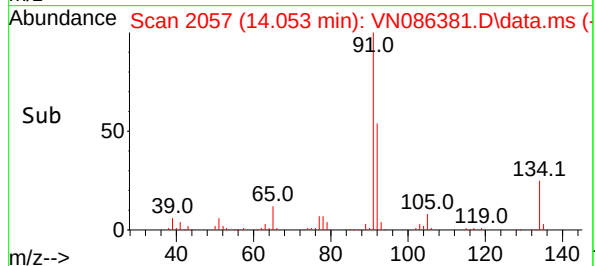
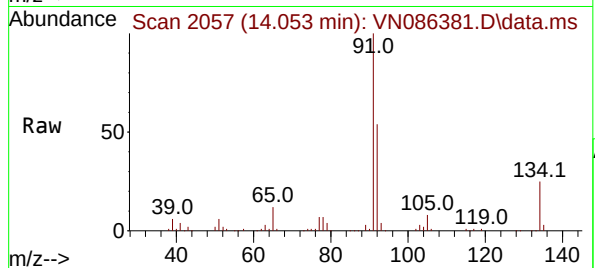
134 24.8 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#86

Hexachloroethane

Concen: 18.358 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086381.D

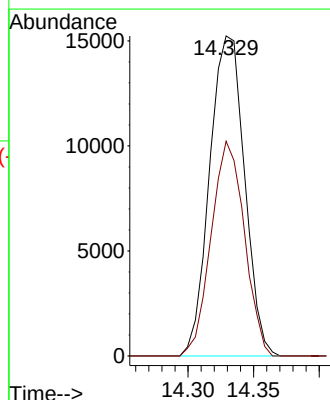
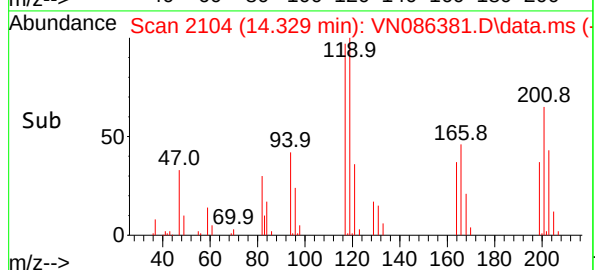
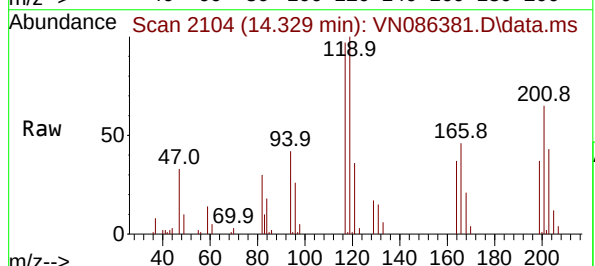
Acq: 23 Apr 2025 13:53

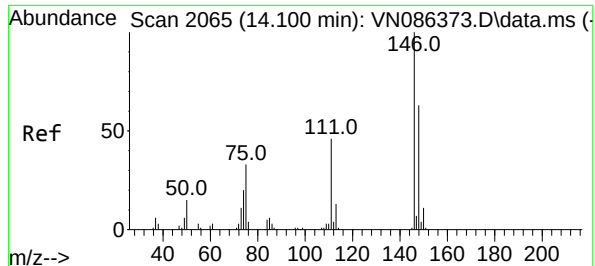
Tgt Ion:117 Resp: 28240

Ion Ratio Lower Upper

117 100

201 63.8 31.7 95.1





#87

1,2-Dichlorobenzene

Concen: 19.078 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

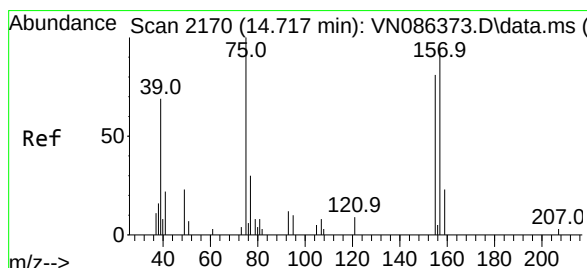
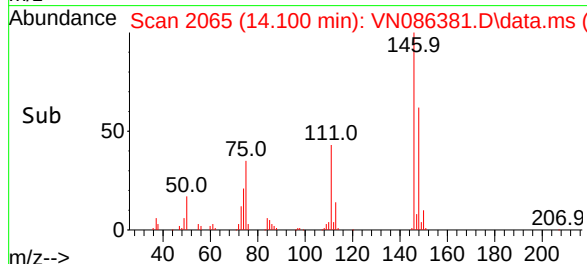
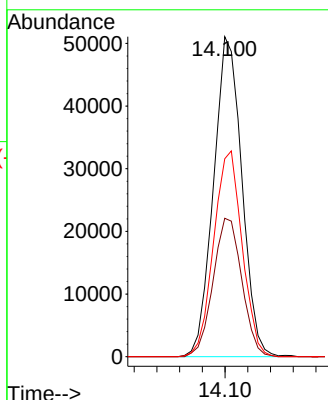
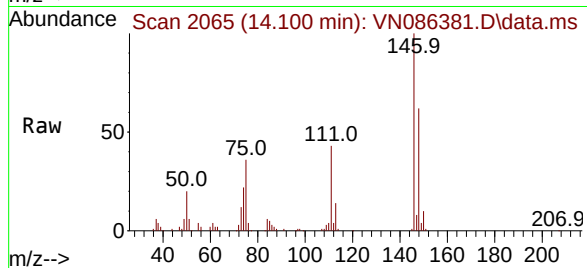
Tgt Ion:	146	Resp:	8842
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.1	66.3
148	64.7	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.684 ug/l

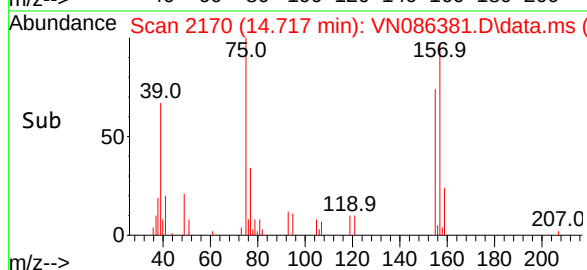
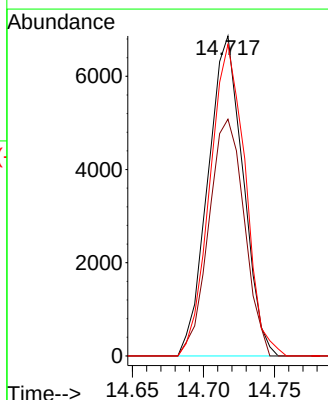
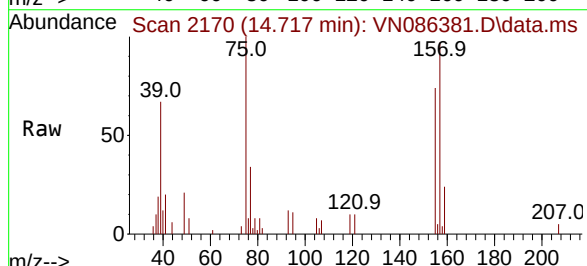
RT: 14.717 min Scan# 2170

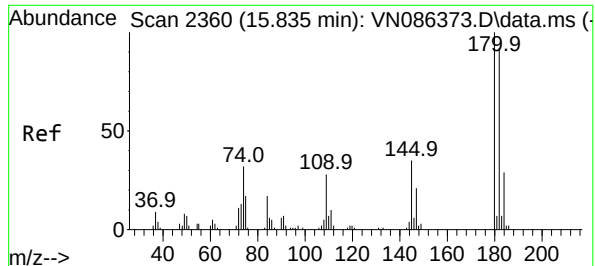
Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Tgt Ion:	75	Resp:	11808
Ion	Ratio	Lower	Upper
75	100		
155	74.8	64.0	96.0
157	97.7	78.2	117.4





#89

1,2,4-Trichlorobenzene

Concen: 19.995 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN042325

Tgt Ion:180 Resp: 42238

Ion Ratio Lower Upper

180 100

182 95.5 74.8 112.2

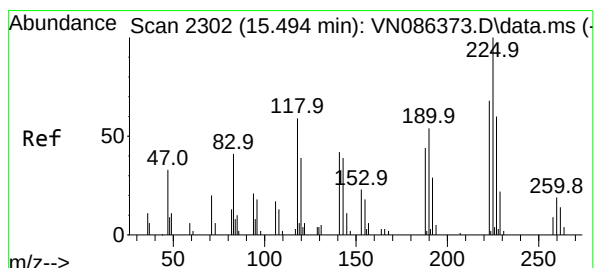
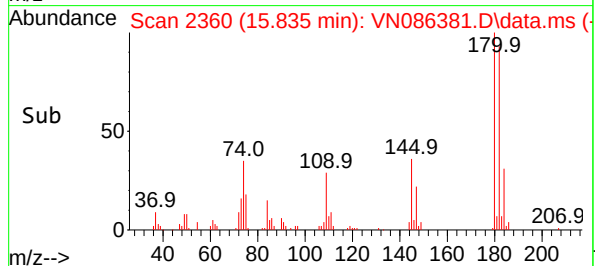
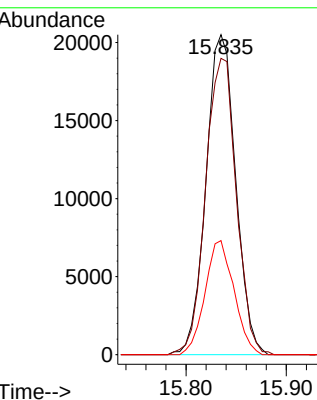
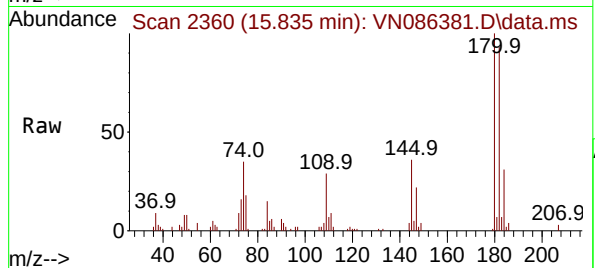
145 34.8 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

Concen: 21.534 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.000 min

Lab File: VN086381.D

Acq: 23 Apr 2025 13:53

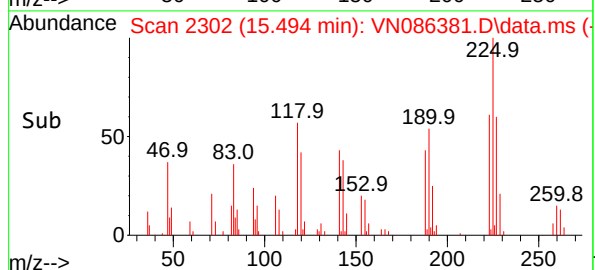
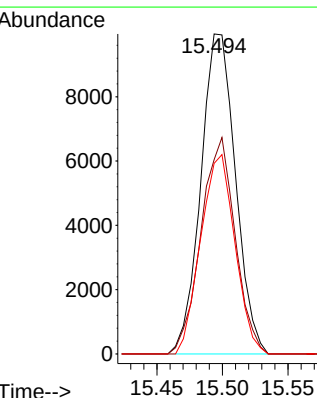
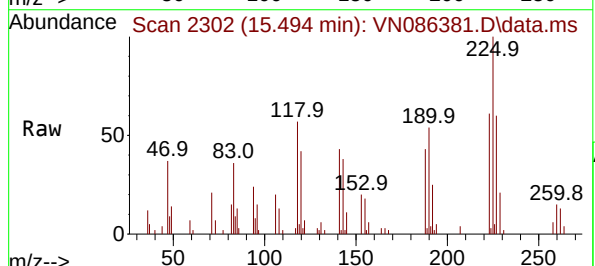
Tgt Ion:225 Resp: 18323

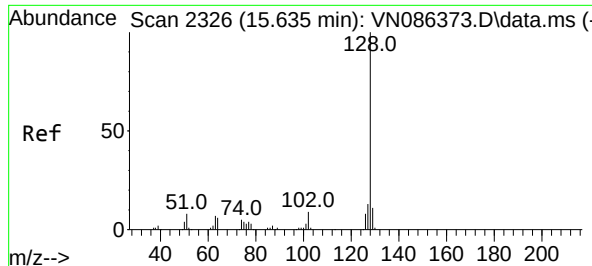
Ion Ratio Lower Upper

225 100

223 66.5 0.0 128.8

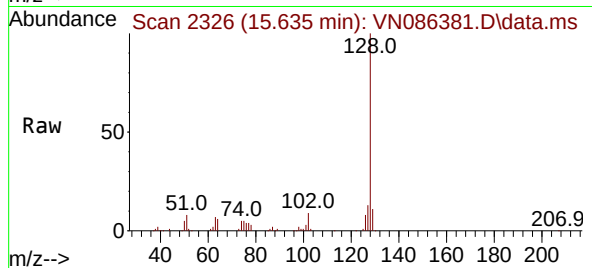
227 61.5 0.0 120.2





#91
Naphthalene
Concen: 20.413 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

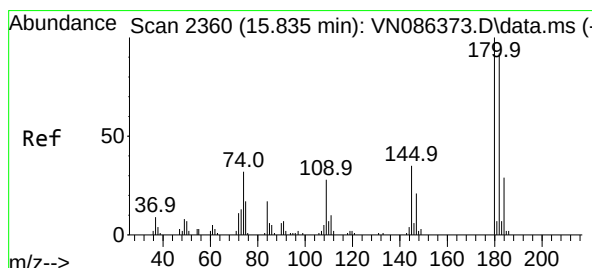
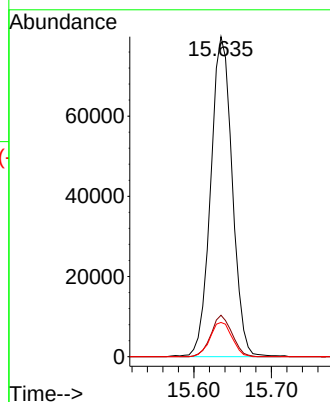
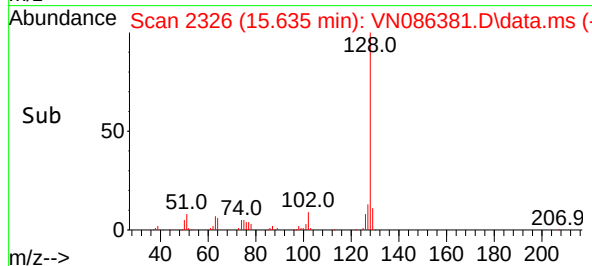
Instrument :
MSVOA_N
ClientSampleId :
ICVVN042325



Tgt Ion:128 Resp: 154380
Ion Ratio Lower Upper
128 100
127 12.6 10.6 15.8
129 10.9 8.7 13.1

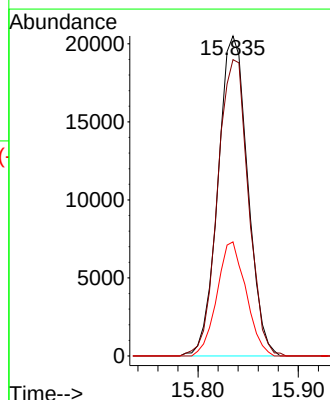
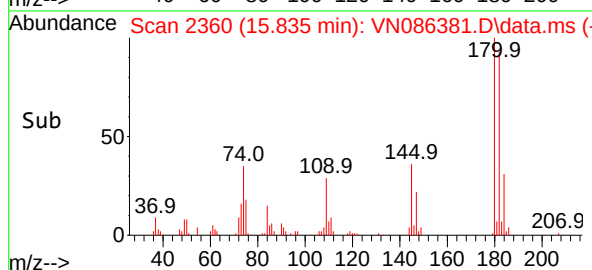
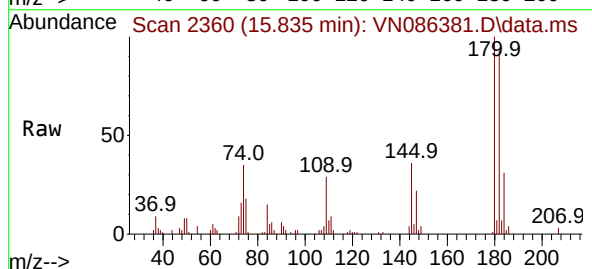
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 19.995 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086381.D
Acq: 23 Apr 2025 13:53

Tgt Ion:180 Resp: 42238
Ion Ratio Lower Upper
180 100
182 95.5 0.0 187.0
145 34.8 0.0 67.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN042325

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 M	Dichlorodifluoromethane	2.071	2.142	-3.4	100	0.00
3 M	Chloromethane	2.942	3.004	-2.1	103	0.00
4 M	Vinyl Chloride	2.818	2.881	-2.2	102	0.00
5 M	Bromomethane	1.471	1.544	-5.0	103	0.00
6 M	Chloroethane	1.879	1.863	0.9	99	0.00
7 M	Trichlorofluoromethane	3.326	3.299	0.8	97	0.00
8 T	Diethyl Ether	1.404	1.412	-0.6	102	0.00
9	1,1,2-Trichlorotrifluoroeth	2.045	2.068	-1.1	101	0.00
10 M	1,1-Dichloroethene	2.093	2.063	1.4	98	0.00
11	Methyl Iodide	2.449	2.463	-0.6	101	0.00
12	Methyl Acetate	2.966	3.032	-2.2	101	0.00
13 M	Acrolein	0.150	0.126	16.0	98	0.00
14 M	Acrylonitrile	1.104	1.120	-1.4	101	0.00
15 M	Acetone	0.304	0.327	-7.6	117	0.00
16 M	Carbon Disulfide	5.515	5.689	-3.2	101	0.00
17	Allyl chloride	3.346	3.402	-1.7	104	0.00
18 M	Methylene Chloride	2.383	2.363	0.8	99	0.00
19 M	trans-1,2-Dichloroethene	2.231	2.238	-0.3	101	0.00
20 T	Diisopropyl ether	7.957	7.865	1.2	100	0.00
21 M	1,1-Dichloroethane	4.355	4.345	0.2	100	0.00
22 M	cis-1,2-Dichloroethene	2.789	2.775	0.5	101	0.00
23 M	tert-Butyl Alcohol	0.428	0.449	-4.9	98	0.00
24 M	Methyl tert-Butyl Ether	7.733	7.790	-0.7	101	0.00
25 M	Chloroform	4.408	4.367	0.9	98	0.00
26	Cyclohexane	3.846	3.789	1.5	100	0.00
27 s	1,2-Dichloroethane-d4	2.892	2.931	-1.3	98	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
29	1,1-Dichloropropene	0.529	0.509	3.8	101	0.00
30 M	2-Butanone	0.257	0.254	1.2	102	0.00
31	2,2-Dichloropropane	0.680	0.645	5.1	98	0.00
32 M	1,1,1-Trichloroethane	0.632	0.607	4.0	99	0.00
33 M	Carbon Tetrachloride	0.520	0.499	4.0	98	0.00
34 M	Benzene	1.682	1.632	3.0	100	0.00
35	Methacrylonitrile	0.293	0.278	5.1	93	0.00
36 M	1,2-Dichloroethane	0.546	0.531	2.7	100	0.00
37 M	Trichloroethene	0.421	0.401	4.8	101	0.00
38	Methylcyclohexane	0.611	0.587	3.9	100	0.00
39 M	1,2-Dichloropropane	0.416	0.396	4.8	98	0.00
40	Dibromomethane	0.278	0.268	3.6	98	0.00
41 M	Bromodichloromethane	0.588	0.572	2.7	100	0.00
42 M	Vinyl Acetate	0.889	0.874	1.7	99	0.00
43	Ethyl Acetate	0.508	0.480	5.5	101	0.00
44	Isopropyl Acetate	0.964	0.955	0.9	102	0.00
45 T	1,4-Dioxane	0.008	0.008	0.0	101	0.00
46	Methyl methacrylate	0.445	0.427	4.0	99	0.00
47	n-amyl Acetate	0.822	0.766	6.8	98	0.00
48 M	t-1,3-Dichloropropene	0.657	0.630	4.1	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042325

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.693	0.667	3.8	100	0.00
50 M	1,1,2-Trichloroethane	0.388	0.382	1.5	100	0.00
51	Ethyl methacrylate	0.676	0.636	5.9	98	0.00
52	1,3-Dichloropropane	0.686	0.672	2.0	101	0.00
53 M	Dibromochloromethane	0.436	0.413	5.3	98	0.00
54 M	1,2-Dibromoethane	0.395	0.376	4.8	98	0.00
55 M	2-Chloroethyl vinyl ether	0.318	0.314	1.3	101	0.00
56 M	Bromoform	0.283	0.261	7.8	95	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
58 M	4-Methyl-2-Pentanone	0.581	0.573	1.4	99	0.00
59 M	2-Hexanone	0.428	0.420	1.9	98	0.00
60 S	4-Bromofluorobenzene	0.590	0.564	4.4	96	0.00
61 M	Tetrachloroethene	0.458	0.437	4.6	100	0.00
62 M	Toluene	2.008	1.942	3.3	98	0.00
63 S	Toluene-d8	1.650	1.656	-0.4	98	0.00
64 M	Chlorobenzene	1.251	1.212	3.1	98	0.00
65	1,1,1,2-Tetrachloroethane	0.418	0.403	3.6	99	0.00
66 M	Ethyl Benzene	2.260	2.186	3.3	98	0.00
67 M	m/p-Xylenes	0.858	0.828	3.5	99	0.00
68 M	o-Xylene	0.840	0.807	3.9	99	0.00
69 M	Styrene	1.423	1.353	4.9	99	0.00
70	Isopropylbenzene	2.096	2.016	3.8	98	0.00
71 M	1,1,2,2-Tetrachloroethane	0.552	0.562	-1.8	98	0.00
72	1,2,3-Trichloropropane	0.481	0.472	1.9	100	0.00
73	Bromobenzene	0.482	0.464	3.7	98	0.00
74	n-propylbenzene	2.491	2.374	4.7	99	0.00
75	2-Chlorotoluene	1.555	1.488	4.3	98	0.00
76	1,3,5-Trimethylbenzene	1.720	1.661	3.4	100	0.00
77	t-1,4-Dichloro-2-butene	0.244	0.231	5.3	100	0.00
78	4-Chlorotoluene	1.555	1.480	4.8	101	0.00
79	tert-butylbenzene	1.473	1.413	4.1	99	0.00
80	1,2,4-Trimethylbenzene	1.757	1.678	4.5	99	0.00
81	sec-Butylbenzene	2.103	2.007	4.6	101	0.00
82	p-Isopropyltoluene	1.759	1.660	5.6	101	0.00
83 M	1,3-Dichlorobenzene	0.911	0.860	5.6	102	0.00
84 M	1,4-Dichlorobenzene	0.900	0.861	4.3	103	0.00
85	n-Butylbenzene	1.570	1.473	6.2	103	0.00
86 T	Hexachloroethane	0.288	0.264	8.3	99	0.00
87 M	1,2-Dichlorobenzene	0.867	0.827	4.6	102	0.00
88	1,2-Dibromo-3-Chloropropane	0.112	0.110	1.8	107	0.00
89	1,2,4-Trichlorobenzene	0.395	0.395	0.0	112	0.00
90	Hexachlorobutadiene	0.159	0.171	-7.5	119	0.00
91 M	Naphthalene	1.414	1.444	-2.1	114	0.00
92	1,2,3-Trichlorobenzene	0.395	0.395	0.0	112	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042325

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	100	0.00
2 M	Dichlorodifluoromethane	20.000	20.682	-3.4	100	0.00
3 M	Chloromethane	20.000	20.424	-2.1	103	0.00
4 M	Vinyl Chloride	20.000	20.449	-2.2	102	0.00
5 M	Bromomethane	20.000	20.985	-4.9	103	0.00
6 M	Chloroethane	20.000	19.838	0.8	99	0.00
7 M	Trichlorofluoromethane	20.000	19.836	0.8	97	0.00
8 T	Diethyl Ether	20.000	20.111	-0.6	102	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.227	-1.1	101	0.00
10 M	1,1-Dichloroethene	20.000	19.718	1.4	98	0.00
11	Methyl Iodide	20.000	20.120	-0.6	101	0.00
12	Methyl Acetate	20.000	20.442	-2.2	101	0.00
13 M	Acrolein	100.000	81.993	18.0	98	0.00
14 M	Acrylonitrile	100.000	101.422	-1.4	101	0.00
15 M	Acetone	100.000	107.574	-7.6	117	0.00
16 M	Carbon Disulfide	20.000	20.631	-3.2	101	0.00
17	Allyl chloride	20.000	20.329	-1.6	104	0.00
18 M	Methylene Chloride	20.000	19.828	0.9	99	0.00
19 M	trans-1,2-Dichloroethene	20.000	20.070	-0.4	101	0.00
20 T	Diisopropyl ether	20.000	19.768	1.2	100	0.00
21 M	1,1-Dichloroethane	20.000	19.950	0.3	100	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.895	0.5	101	0.00
23 M	tert-Butyl Alcohol	100.000	104.953	-5.0	98	0.00
24 M	Methyl tert-Butyl Ether	20.000	20.147	-0.7	101	0.00
25 M	Chloroform	20.000	19.815	0.9	98	0.00
26	Cyclohexane	20.000	19.705	1.5	100	0.00
27 s	1,2-Dichloroethane-d4	30.000	30.399	-1.3	98	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	100	0.00
29	1,1-Dichloropropene	20.000	19.252	3.7	101	0.00
30 M	2-Butanone	100.000	98.812	1.2	102	0.00
31	2,2-Dichloropropane	20.000	18.971	5.1	98	0.00
32 M	1,1,1-Trichloroethane	20.000	19.213	3.9	99	0.00
33 M	Carbon Tetrachloride	20.000	19.200	4.0	98	0.00
34 M	Benzene	20.000	19.408	3.0	100	0.00
35	Methacrylonitrile	20.000	18.965	5.2	93	0.00
36 M	1,2-Dichloroethane	20.000	19.464	2.7	100	0.00
37 M	Trichloroethene	20.000	19.047	4.8	101	0.00
38	Methylcyclohexane	20.000	19.209	4.0	100	0.00
39 M	1,2-Dichloropropane	20.000	19.063	4.7	98	0.00
40	Dibromomethane	20.000	19.273	3.6	98	0.00
41 M	Bromodichloromethane	20.000	19.438	2.8	100	0.00
42 M	Vinyl Acetate	100.000	98.241	1.8	99	0.00
43	Ethyl Acetate	20.000	18.897	5.5	101	0.00
44	Isopropyl Acetate	20.000	19.805	1.0	102	0.00
45 T	1,4-Dioxane	400.000	411.534	-2.9	101	0.00
46	Methyl methacrylate	20.000	19.190	4.0	99	0.00
47	n-amyl Acetate	20.000	18.642	6.8	98	0.00
48 M	t-1,3-Dichloropropene	20.000	19.167	4.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086381.D
 Acq On : 23 Apr 2025 13:53
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN042325

Quant Time: Apr 24 04:50:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	19.233	3.8	100	0.00
50 M	1,1,2-Trichloroethane	20.000	19.666	1.7	100	0.00
51	Ethyl methacrylate	20.000	18.819	5.9	98	0.00
52	1,3-Dichloropropane	20.000	19.590	2.1	101	0.00
53 M	Dibromochloromethane	20.000	18.927	5.4	98	0.00
54 M	1,2-Dibromoethane	20.000	19.043	4.8	98	0.00
55 M	2-Chloroethyl vinyl ether	100.000	98.770	1.2	101	0.00
56 M	Bromoform	20.000	18.434	7.8	95	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	98	0.00
58 M	4-Methyl-2-Pentanone	100.000	98.743	1.3	99	0.00
59 M	2-Hexanone	100.000	98.060	1.9	98	0.00
60 S	4-Bromofluorobenzene	30.000	28.685	4.4	96	0.00
61 M	Tetrachloroethene	20.000	19.102	4.5	100	0.00
62 M	Toluene	20.000	19.339	3.3	98	0.00
63 S	Toluene-d8	30.000	30.100	-0.3	98	0.00
64 M	Chlorobenzene	20.000	19.378	3.1	98	0.00
65	1,1,1,2-Tetrachloroethane	20.000	19.270	3.7	99	0.00
66 M	Ethyl Benzene	20.000	19.345	3.3	98	0.00
67 M	m/p-Xylenes	40.000	38.625	3.4	99	0.00
68 M	o-Xylene	20.000	19.209	4.0	99	0.00
69 M	Styrene	20.000	19.014	4.9	99	0.00
70	Isopropylbenzene	20.000	19.236	3.8	98	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	20.382	-1.9	98	0.00
72	1,2,3-Trichloropropane	20.000	19.624	1.9	100	0.00
73	Bromobenzene	20.000	19.266	3.7	98	0.00
74	n-propylbenzene	20.000	19.064	4.7	99	0.00
75	2-Chlorotoluene	20.000	19.133	4.3	98	0.00
76	1,3,5-Trimethylbenzene	20.000	19.311	3.4	100	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.884	5.6	100	0.00
78	4-Chlorotoluene	20.000	19.044	4.8	101	0.00
79	tert-butylbenzene	20.000	19.180	4.1	99	0.00
80	1,2,4-Trimethylbenzene	20.000	19.103	4.5	99	0.00
81	sec-Butylbenzene	20.000	19.091	4.5	101	0.00
82	p-Isopropyltoluene	20.000	18.866	5.7	101	0.00
83 M	1,3-Dichlorobenzene	20.000	18.889	5.6	102	0.00
84 M	1,4-Dichlorobenzene	20.000	19.142	4.3	103	0.00
85	n-Butylbenzene	20.000	18.762	6.2	103	0.00
86 T	Hexachloroethane	20.000	18.358	8.2	99	0.00
87 M	1,2-Dichlorobenzene	20.000	19.078	4.6	102	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	19.684	1.6	107	0.00
89	1,2,4-Trichlorobenzene	20.000	19.995	0.0	112	0.00
90	Hexachlorobutadiene	20.000	21.534	-7.7	119	0.00
91 M	Naphthalene	20.000	20.413	-2.1	114	0.00
92	1,2,3-Trichlorobenzene	20.000	19.995	0.0	112	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ARDM01

Lab Code: CHEM Case No.: Q1833 SAS No.: Q1833 SDG No.: Q1833

Instrument ID: MSVOA_N Calibration Date/Time: 04/23/2025 09:45

Lab File ID: VN086373.D Init. Calib. Date(s): 04/23/2025 04/23/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:22 13:17

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Chloromethane	2.942	2.904		-1.29	
Vinyl Chloride	2.818	2.817		-0.04	
Bromomethane	1.471	1.501		2.04	
Chloroethane	1.879	1.878		-0.05	
Trichlorofluoromethane	3.326	3.403		2.32	
1,1-Dichloroethene	2.093	2.095		0.1	
Acrolein	0.150	0.128		-14.67	
Acrylonitrile	1.104	1.106		0.18	
Methylene Chloride	2.383	2.378		-0.21	
trans-1,2-Dichloroethene	2.231	2.200		-1.39	
1,1-Dichloroethane	4.356	4.324		-0.74	
Carbon Tetrachloride	0.520	0.508		-2.31	
Chloroform	4.408	4.461		1.2	
1,1,1-Trichloroethane	0.632	0.613		-3.01	
Benzene	1.682	1.635		-2.79	
1,2-Dichloroethane	0.546	0.533		-2.38	
Trichloroethene	0.421	0.397		-5.7	
1,2-Dichloropropane	0.416	0.402		-3.37	
Bromodichloromethane	0.588	0.571		-2.89	
Toluene	2.008	1.957		-2.54	
t-1,3-Dichloropropene	0.657	0.629		-4.26	
cis-1,3-Dichloropropene	0.693	0.664		-4.18	
1,1,2-Trichloroethane	0.388	0.383		-1.29	
2-Chloroethyl vinyl ether	0.318	0.309		-2.83	
Dibromochloromethane	0.436	0.419		-3.9	
Tetrachloroethene	0.458	0.432		-5.68	
Chlorobenzene	1.251	1.216		-2.8	
Ethyl Benzene	2.260	2.187		-3.23	
m/p-Xylenes	0.858	0.824		-3.96	
o-Xylene	0.840	0.804		-4.29	
Bromoform	0.283	0.274		-3.18	
1,1,2,2-Tetrachloroethane	0.552	0.566		2.54	
1,3-Dichlorobenzene	0.911	0.834		-8.45	
1,4-Dichlorobenzene	0.900	0.825		-8.33	
1,2-Dichlorobenzene	0.867	0.800		-7.73	
1,2-Dichloroethane-d4	2.892	2.979		3.01	
Toluene-d8	1.650	1.660		0.61	
4-Bromofluorobenzene	0.590	0.577		-2.2	

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\VN042325\
 Data File : VN086373.D
 Acq On : 23 Apr 2025 09:45
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28897	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	176907	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163017	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	86075	30.895	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.000%			
60) 4-Bromofluorobenzene	12.847	95	94119	29.376	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	10.559	98	270583	30.171	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	40965	20.534	ug/l	100
3) Chloromethane	2.365	50	55943	19.741	ug/l	100
4) Vinyl Chloride	2.518	62	54265	19.993	ug/l	100
5) Bromomethane	2.965	94	28909	20.401	ug/l	100
6) Chloroethane	3.124	64	36185	19.998	ug/l	100
7) Trichlorofluoromethane	3.500	101	65562	20.464	ug/l	100
8) Diethyl Ether	3.959	74	26673	19.723	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	39448	20.028	ug/l	100
10) 1,1-Dichloroethene	4.342	96	40368	20.024	ug/l	100
11) Methyl Iodide	4.595	142	46703	19.800	ug/l	100
12) Methyl Acetate	5.018	43	57880	20.256	ug/l	100
13) Acrolein	4.177	56	12298m	83.896	ug/l	
14) Acrylonitrile	5.712	53	106580	100.220	ug/l	100
15) Acetone	4.424	58	26827	91.547	ug/l	100
16) Carbon Disulfide	4.712	76	107956	20.323	ug/l	100
17) Allyl chloride	5.024	41	62671	19.442	ug/l	100
18) Methylene Chloride	5.277	84	45816	19.957	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	42390	19.728	ug/l	100
20) Diisopropyl ether	6.671	45	150643	19.655	ug/l	100
21) 1,1-Dichloroethane	6.565	63	83307	19.857	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	52755	19.635	ug/l	100
23) tert-Butyl Alcohol	5.512	59	43778	106.266	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	148542	19.943	ug/l	100
25) Chloroform	7.965	83	85942	20.241	ug/l	100
26) Cyclohexane	8.253	56	72755	19.641	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	59648	19.126	ug/l	100
30) 2-Butanone	7.477	43	145888	96.376	ug/l	100
31) 2,2-Dichloropropane	7.488	77	77657	19.370	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72334	19.409	ug/l	100
33) Carbon Tetrachloride	8.359	117	59965	19.546	ug/l	100
34) Benzene	8.600	78	192789	19.435	ug/l	100
35) Methacrylonitrile	7.777	41	35245	20.411	ug/l	100
36) 1,2-Dichloroethane	8.665	62	62808	19.502	ug/l	100
37) Trichloroethene	9.347	130	46850	18.866	ug/l	100
38) Methylcyclohexane	9.600	83	69428	19.275	ug/l	100
39) 1,2-Dichloropropane	9.618	63	47394	19.340	ug/l	100
40) Dibromomethane	9.706	93	32116	19.597	ug/l	100
41) Bromodichloromethane	9.882	83	67347	19.419	ug/l	100
42) Vinyl Acetate	6.600	43	518356	98.852	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086373.D
 Acq On : 23 Apr 2025 09:45
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	55894	18.658	ug/l	100
44) Isopropyl Acetate	8.682	43	109922	19.334	ug/l	100
45) 1,4-Dioxane	9.694	88	17979	405.300	ug/l	100
46) Methyl methacrylate	9.677	41	50790	19.367	ug/l	100
47) n-amyl Acetate	12.488	43	92290	19.045	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	74180	19.132	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	78337	19.159	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45121	19.712	ug/l	100
51) Ethyl methacrylate	10.871	69	76257	19.128	ug/l	100
52) 1,3-Dichloropropane	11.159	76	78642	19.439	ug/l	100
53) Dibromochloromethane	11.353	129	49462	19.243	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45261	19.447	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	182398	97.314	ug/l	100
56) Bromoform	12.576	173	32369	19.406	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	308775	97.881	ug/l	100
59) 2-Hexanone	11.194	43	227878	98.024	ug/l	100
61) Tetrachloroethene	11.100	164	46962	18.888	ug/l	100
62) Toluene	10.629	91	212695	19.492	ug/l	100
64) Chlorobenzene	11.888	112	132119	19.432	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	43742	19.241	ug/l	100
66) Ethyl Benzene	11.959	91	237663	19.350	ug/l	100
67) m/p-Xylenes	12.065	106	179085	38.428	ug/l	100
68) o-Xylene	12.394	106	87377	19.149	ug/l	100
69) Styrene	12.406	104	146815	18.983	ug/l	100
70) Isopropylbenzene	12.694	105	219637	19.283	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	61516	20.511	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	50447m	19.411	ug/l	
73) Bromobenzene	12.976	156	50559	19.307	ug/l	100
74) n-propylbenzene	13.029	91	256755	18.969	ug/l	100
75) 2-Chlorotoluene	13.123	91	162370	19.217	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	177449	18.987	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	24753	18.653	ug/l	100
78) 4-Chlorotoluene	13.217	91	156935	18.576	ug/l	100
79) tert-butylbenzene	13.435	119	152667	19.073	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	180860	18.949	ug/l	100
81) sec-Butylbenzene	13.612	105	213493	18.686	ug/l	100
82) p-Isopropyltoluene	13.723	119	175002	18.304	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	90643	18.311	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	89707	18.342	ug/l	100
85) n-Butylbenzene	14.053	91	153480	17.991	ug/l	100
86) Hexachloroethane	14.329	117	28629	18.313	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	86899	18.450	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11084	18.182	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	37802	17.609	ug/l	100
90) Hexachlorobutadiene	15.494	225	15432	17.847	ug/l	100
91) Naphthalene	15.635	128	135497	17.630	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	37802	17.609	ug/l	100

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

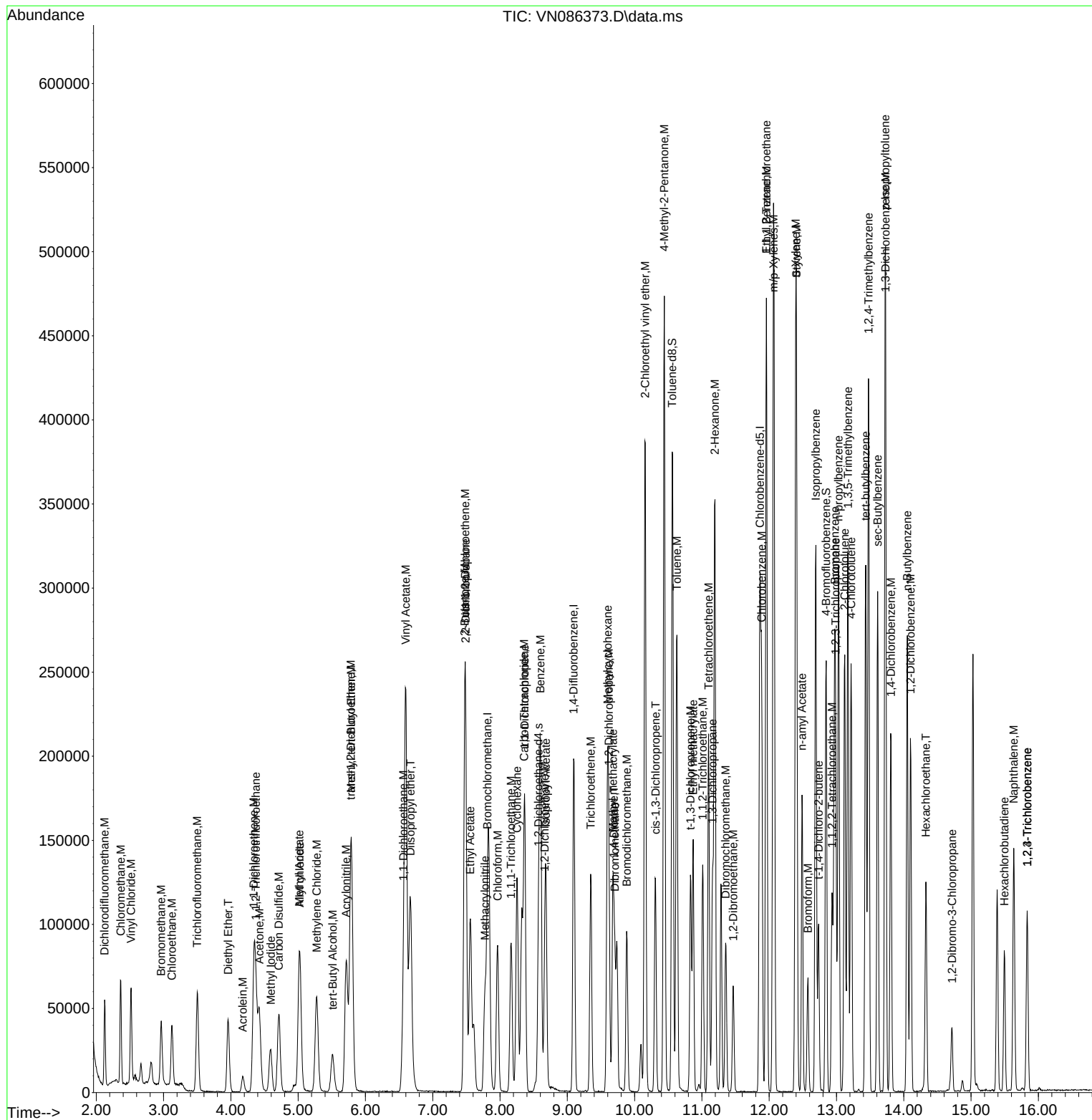
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086373.D
Acq On : 23 Apr 2025 09:45
Operator : JC\MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

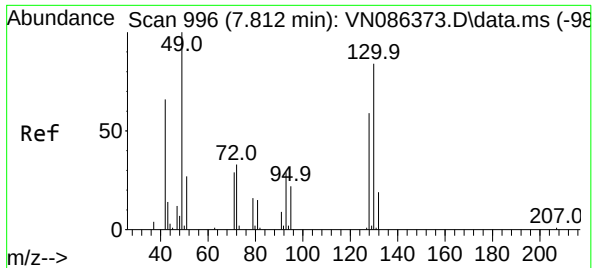
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 03:57:58 2025
Response via : Initial Calibration





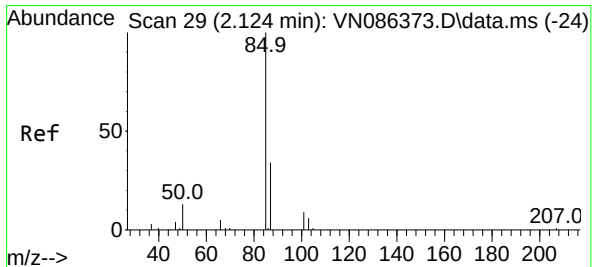
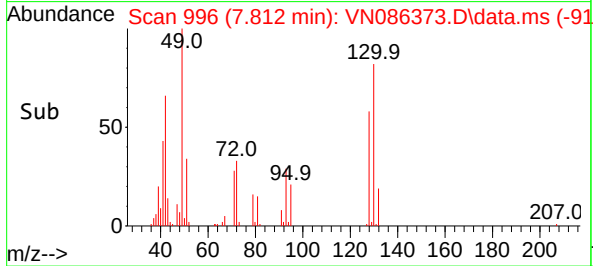
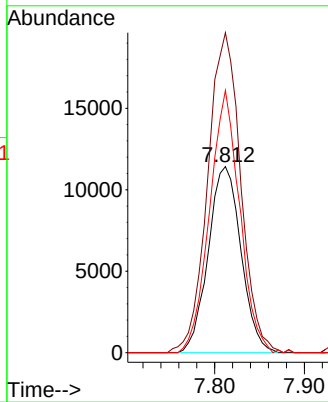
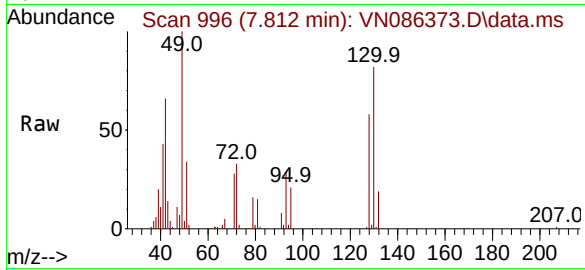
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion	Ratio	Lower	Upper
128	100		
49	173.5	0.0	433.8
130	130.0	0.0	325.0

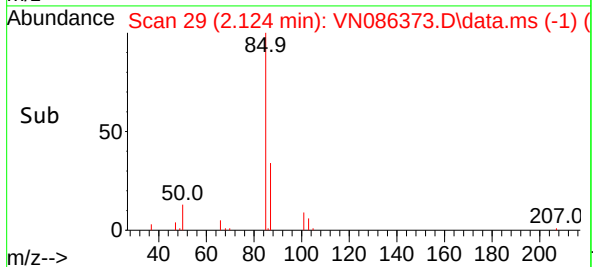
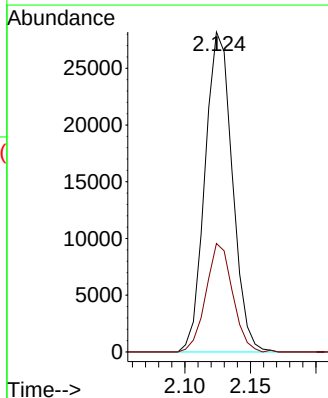
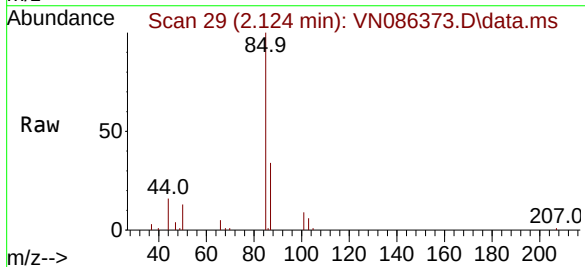
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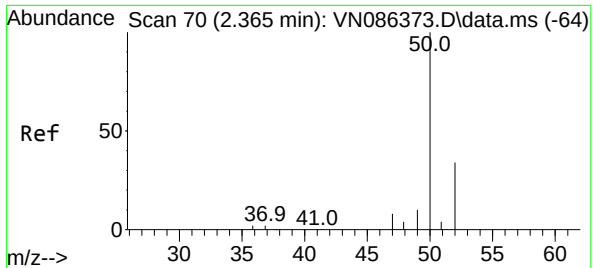
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 20.534 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.9	17.0	50.9





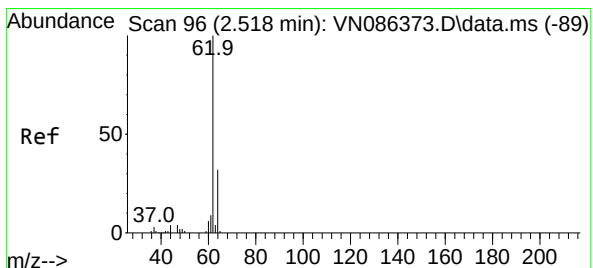
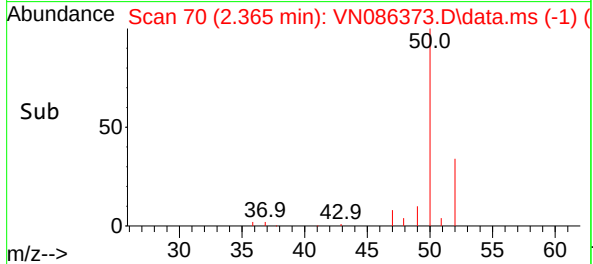
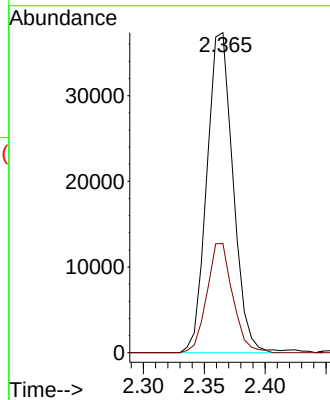
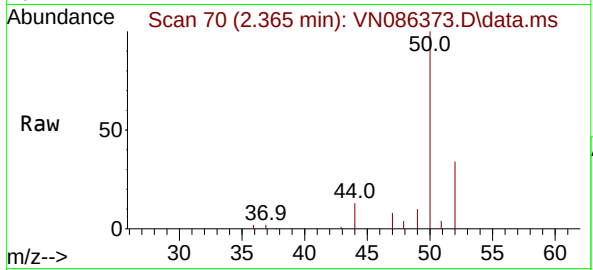
#3
Chloromethane
Concen: 19.741 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 50 Resp: 5594
Ion Ratio Lower Upper
50 100
52 34.1 27.3 40.9

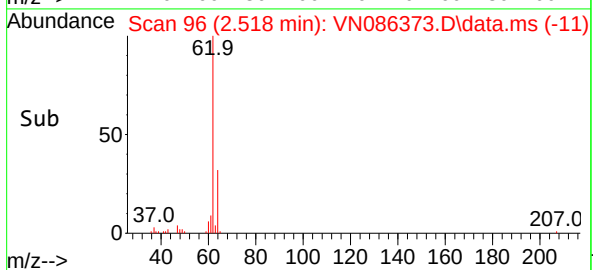
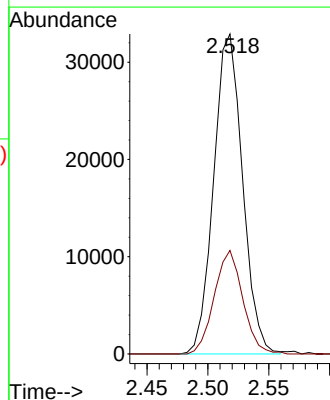
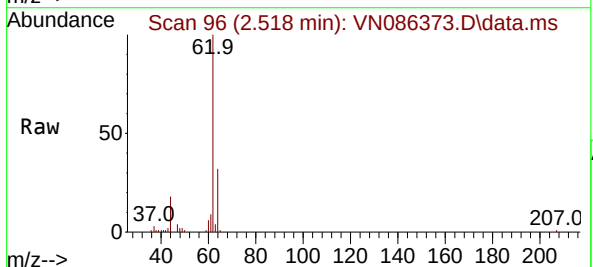
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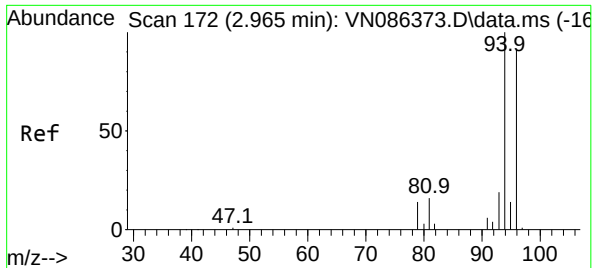
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 19.993 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

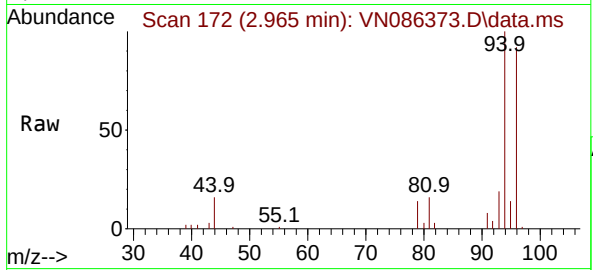
Tgt Ion: 62 Resp: 54265
Ion Ratio Lower Upper
62 100
64 32.3 25.8 38.8





#5
Bromomethane
Concen: 20.401 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

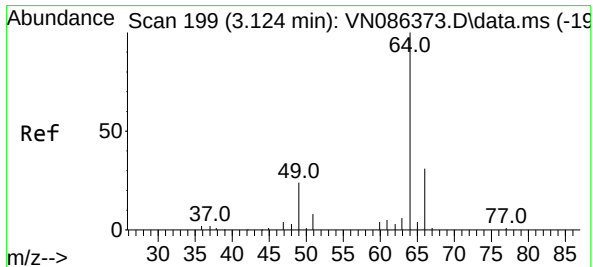
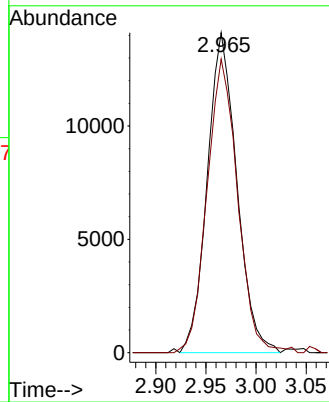
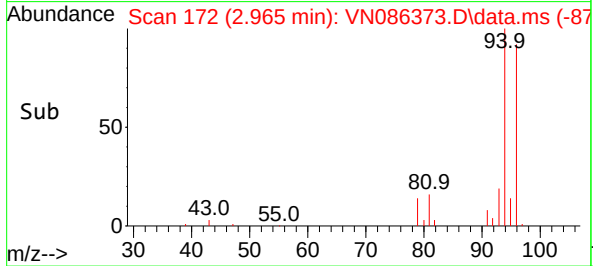
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 94 Resp: 28909
Ion Ratio Lower Upper
94 100
96 90.5 72.4 108.6

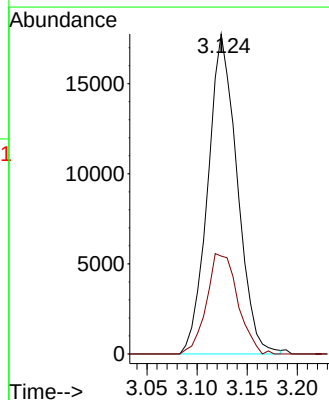
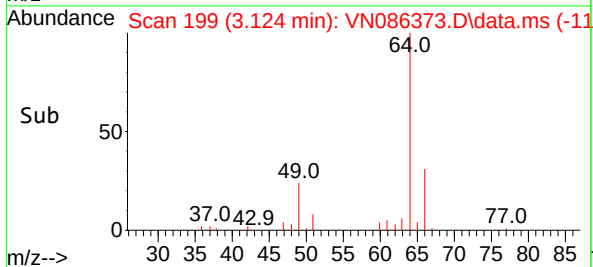
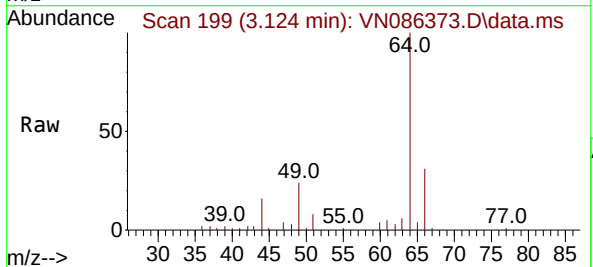
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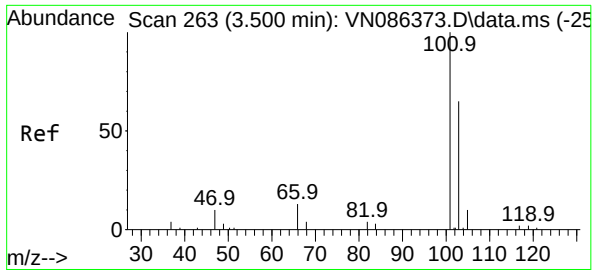
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 19.998 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

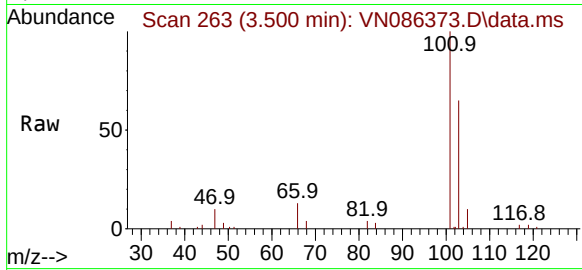
Tgt Ion: 64 Resp: 36185
Ion Ratio Lower Upper
64 100
66 30.6 24.5 36.7





#7
Trichlorofluoromethane
Concen: 20.464 ug/l
RT: 3.500 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

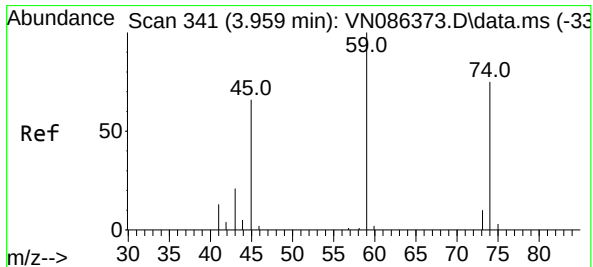
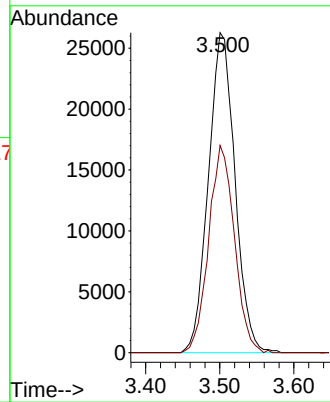
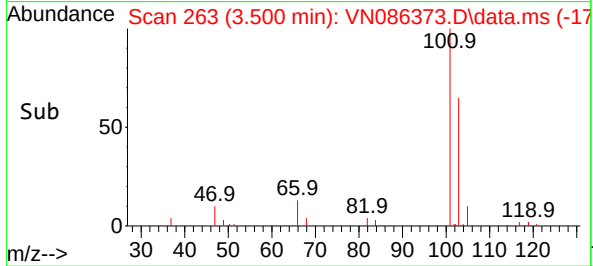
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:101 Resp: 65562
Ion Ratio Lower Upper
101 100
103 64.7 51.8 77.6

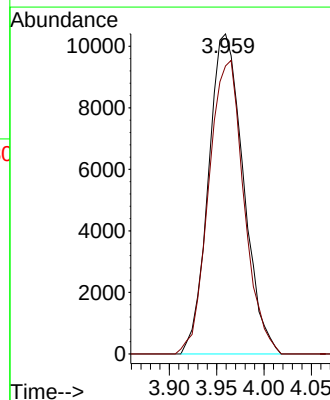
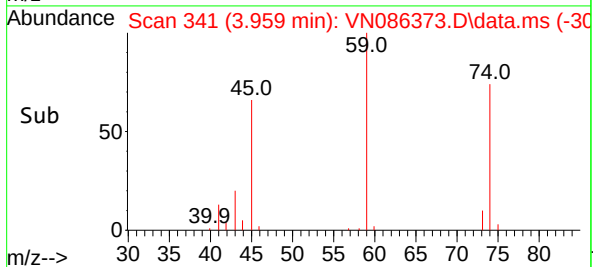
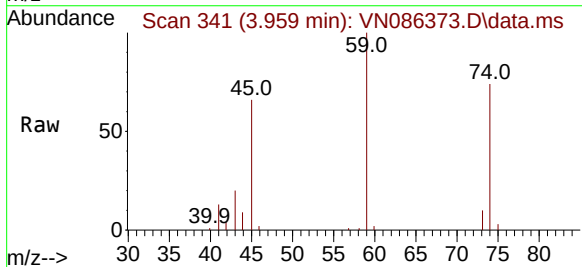
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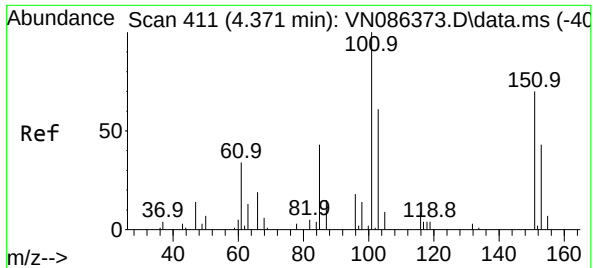
Reviewed By :John Carlone 04/24/2025
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#8
Diethyl Ether
Concen: 19.723 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 74 Resp: 26673
Ion Ratio Lower Upper
74 100
45 92.4 18.5 166.3





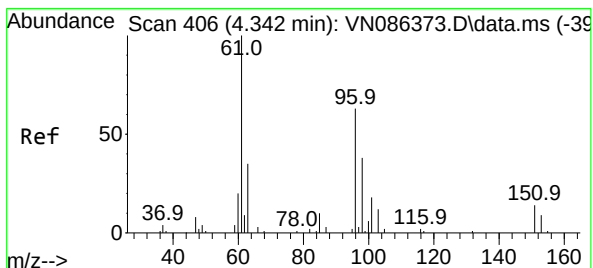
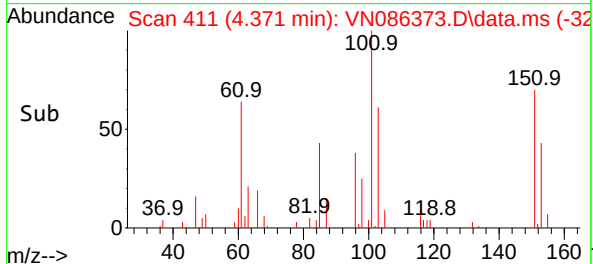
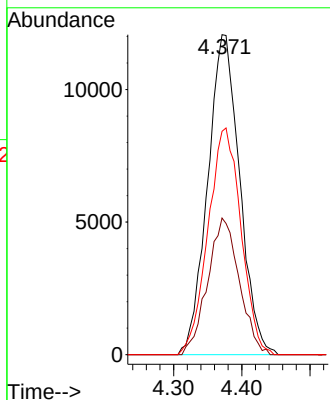
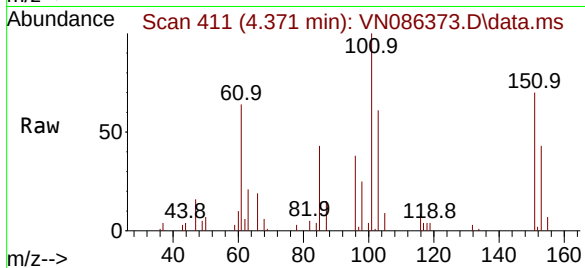
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.028 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 101 Resp: 3944
Ion Ratio Lower Upper
101 100
85 42.2 0.0 84.4
151 72.9 0.0 145.8

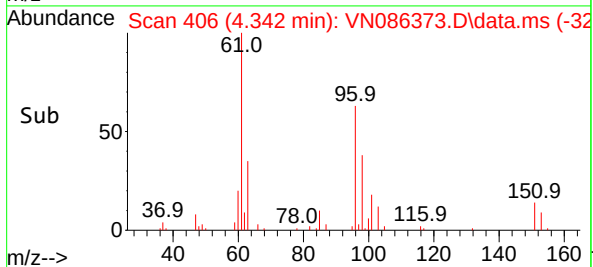
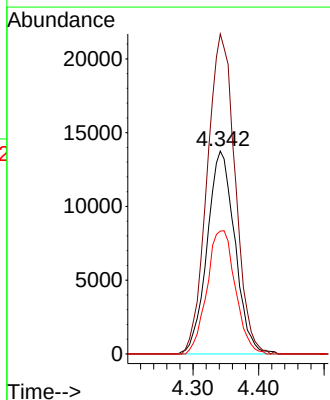
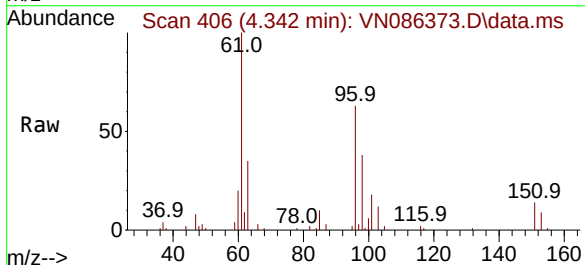
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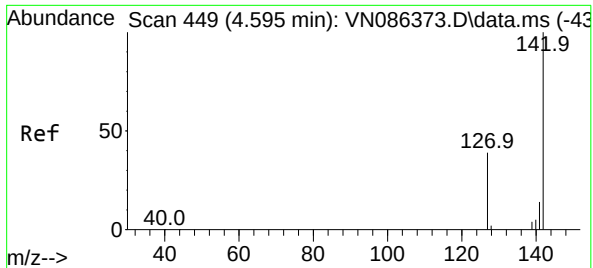
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 20.024 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 96 Resp: 40368
Ion Ratio Lower Upper
96 100
61 157.8 126.2 189.4
98 60.6 48.5 72.7





#11

Methyl Iodide

Concen: 19.800 ug/l

RT: 4.595 min Scan# 449

Delta R.T. 0.000 min

Lab File: VN086373.D

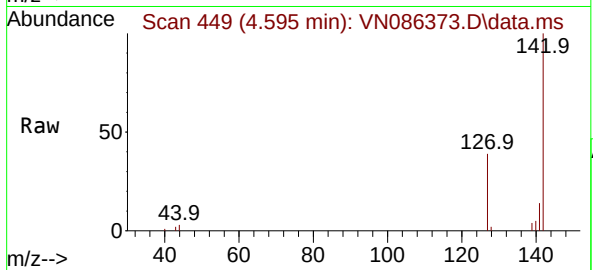
Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion:142 Resp: 4670

Ion Ratio Lower Upper

142 100

127 38.6 19.3 57.9

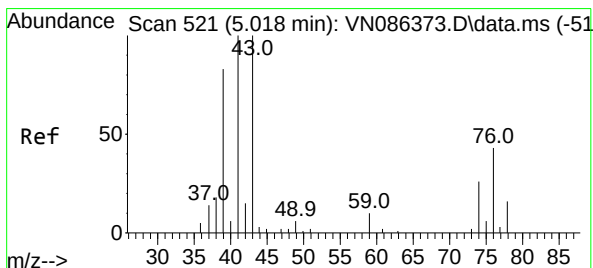
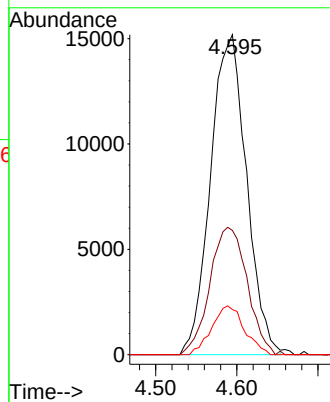
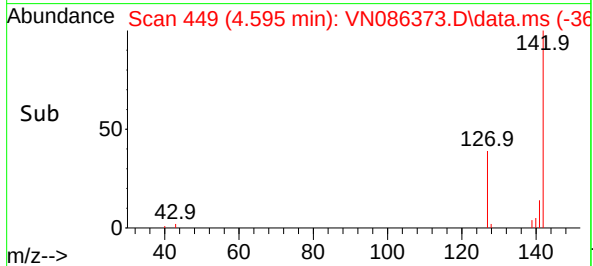
141 14.2 7.1 21.3

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Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 20.256 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086373.D

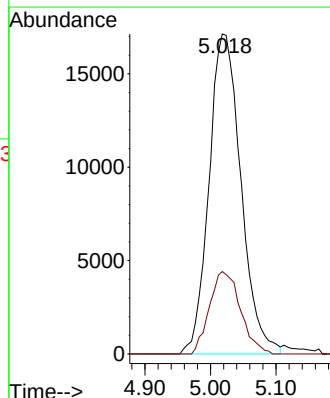
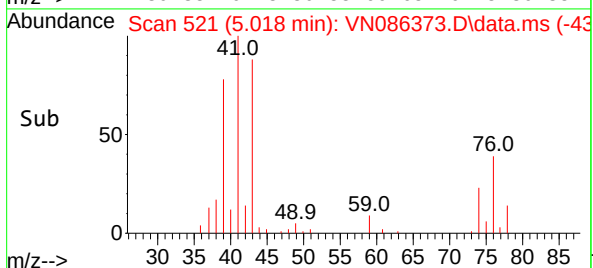
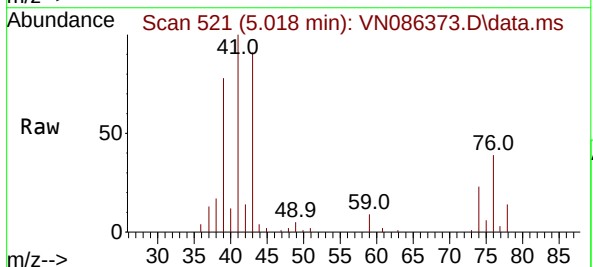
Acq: 23 Apr 2025 09:45

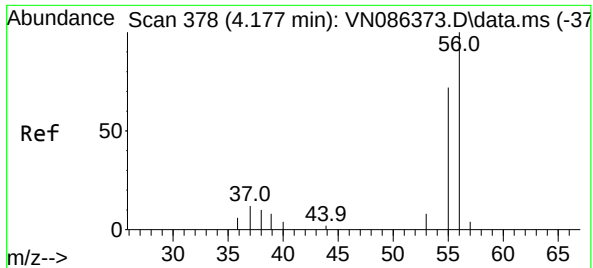
Tgt Ion: 43 Resp: 57880

Ion Ratio Lower Upper

43 100

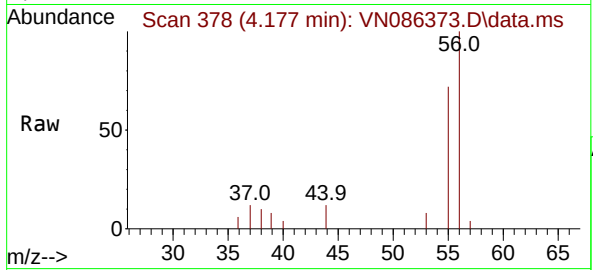
74 26.0 20.8 31.2





#13
Acrolein
Concen: 83.896 ug/l m
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

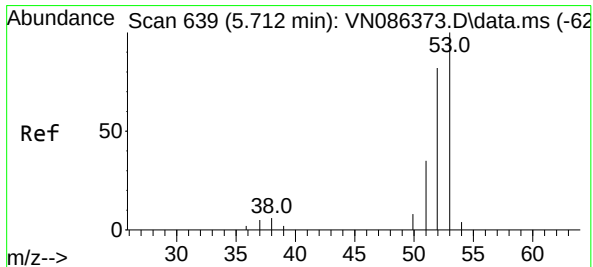
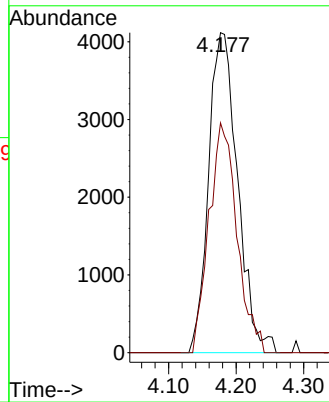
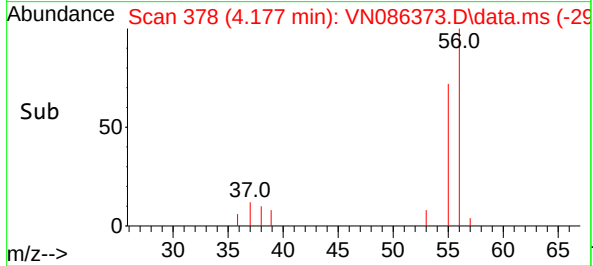
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 56 Resp: 12298
Ion Ratio Lower Upper
56 100
55 68.9 56.1 84.1

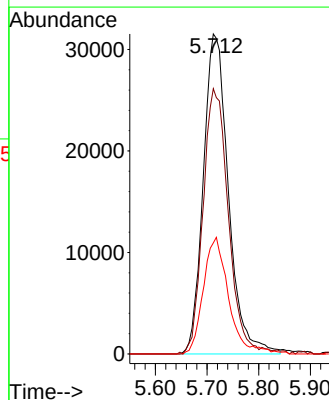
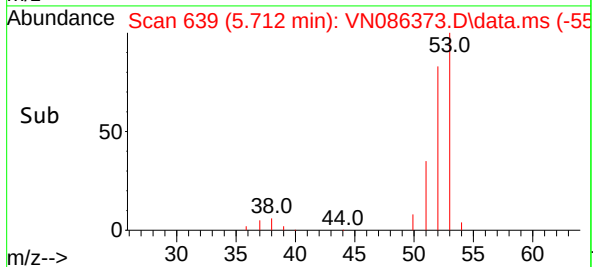
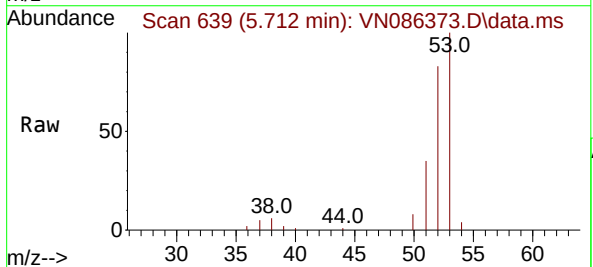
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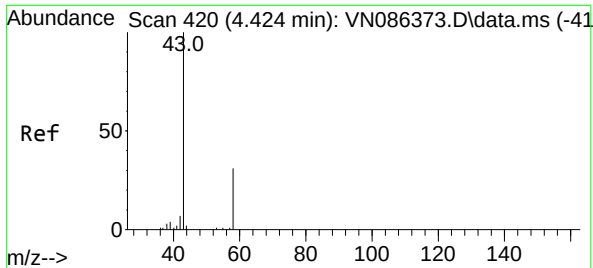
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#14
Acrylonitrile
Concen: 100.220 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 53 Resp: 106580
Ion Ratio Lower Upper
53 100
52 82.4 41.2 123.6
51 35.2 17.6 52.8





#15

Acetone

Concen: 91.547 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 58 Resp: 2682

Ion Ratio Lower Upper

58 100

43 318.9 255.1 382.7

Instrument :

MSVOA_N

ClientSampleId :

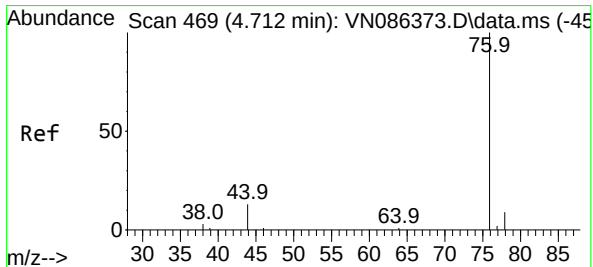
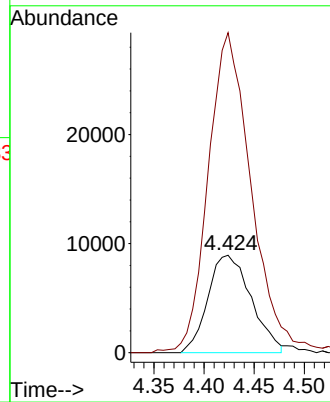
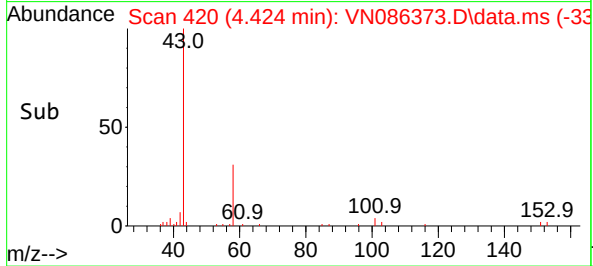
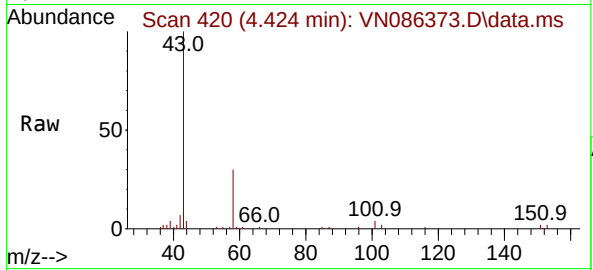
VSTDICCC020

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#16

Carbon Disulfide

Concen: 20.323 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086373.D

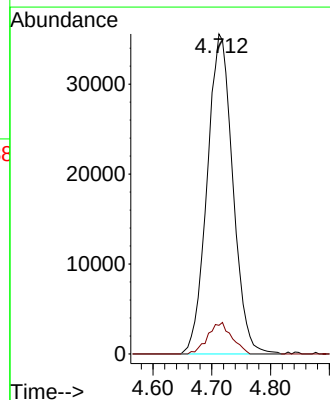
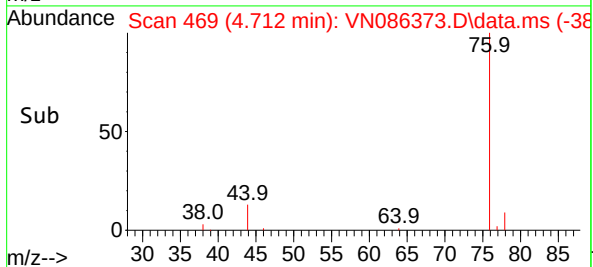
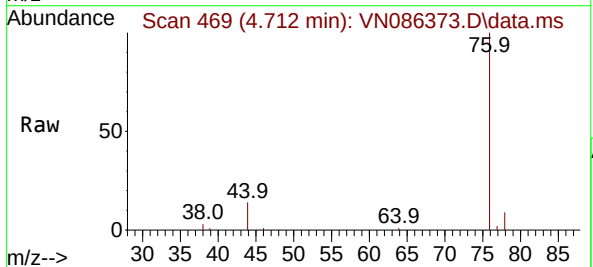
Acq: 23 Apr 2025 09:45

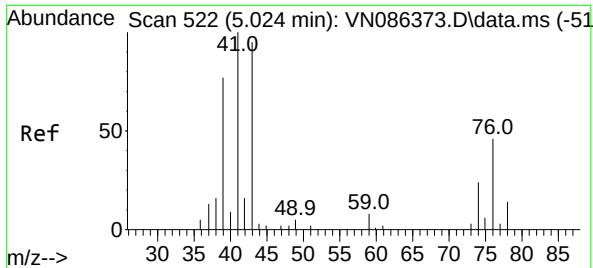
Tgt Ion: 76 Resp: 107956

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7





#17

Allyl chloride

Concen: 19.442 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 6267

Ion Ratio Lower Upper

41 100

39 73.4 36.7 110.1

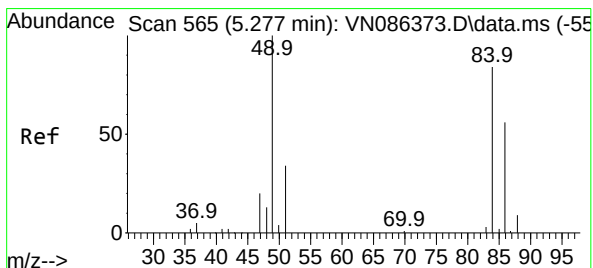
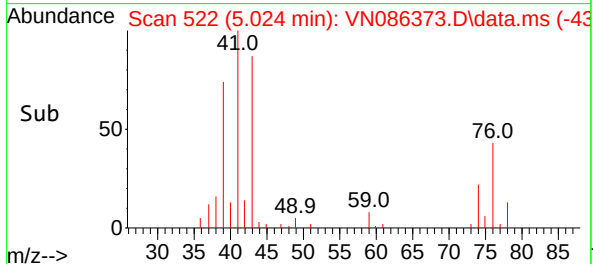
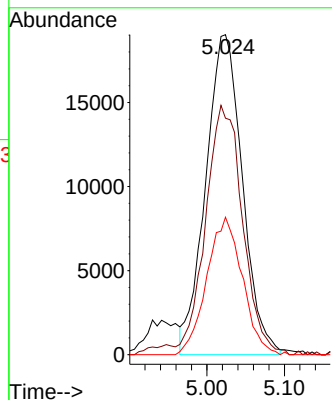
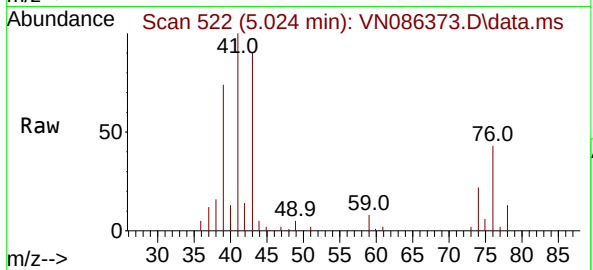
76 43.6 21.8 65.4

Manual Integrations

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#18

Methylene Chloride

Concen: 19.957 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 84 Resp: 45816

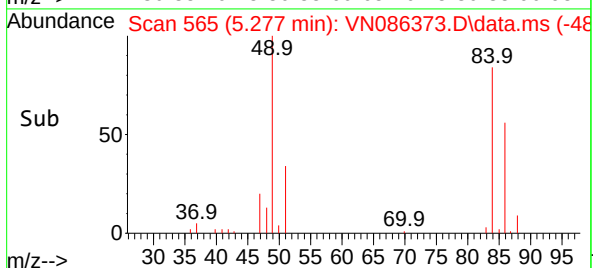
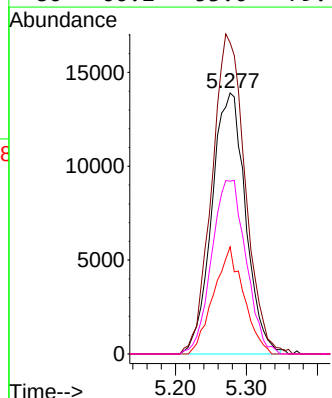
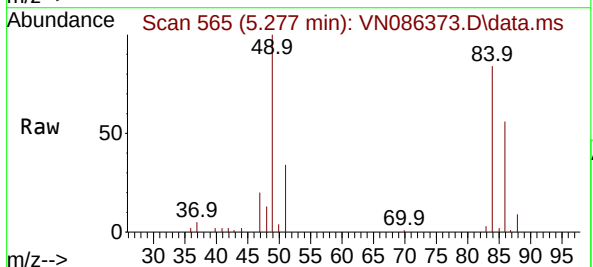
Ion Ratio Lower Upper

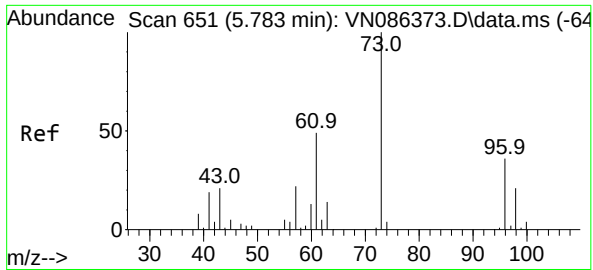
84 100

49 119.2 95.4 143.0

51 41.0 32.8 49.2

86 66.2 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 19.728 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 96 Resp: 42390

Ion Ratio Lower Upper

96 100

61 134.1 107.3 160.9

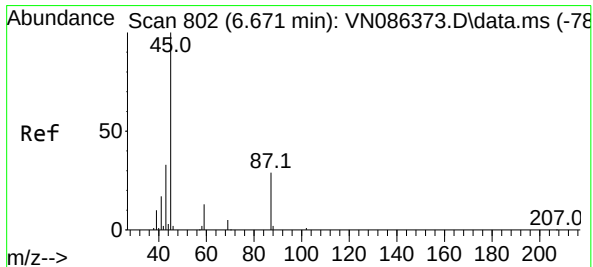
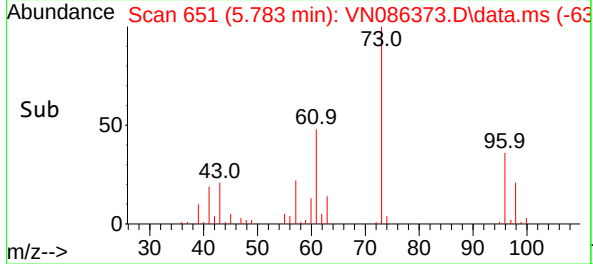
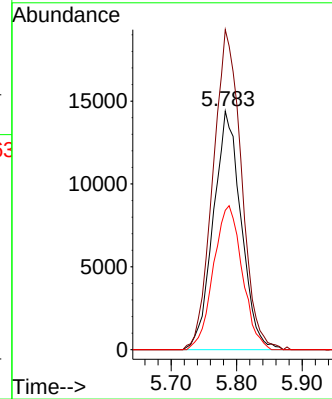
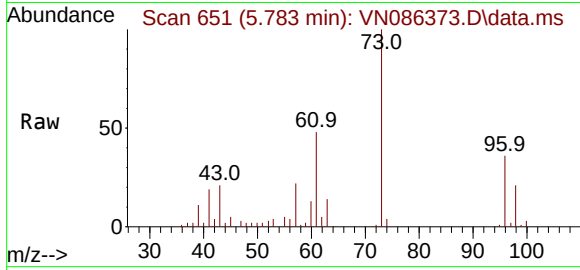
98 58.4 46.7 70.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 19.655 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 45 Resp: 150643

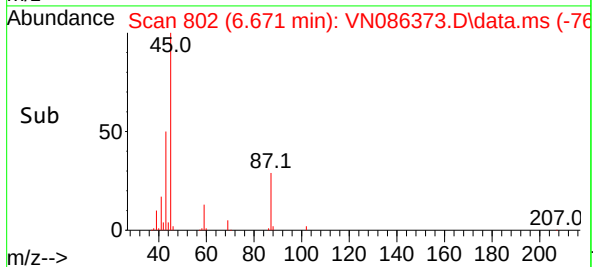
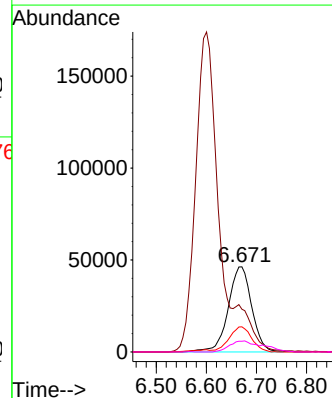
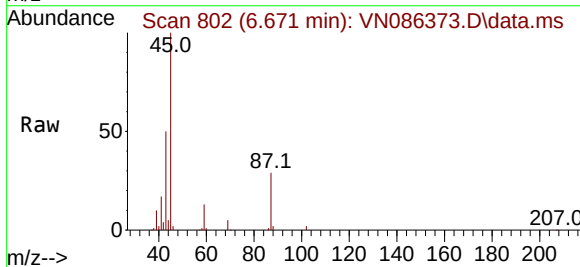
Ion Ratio Lower Upper

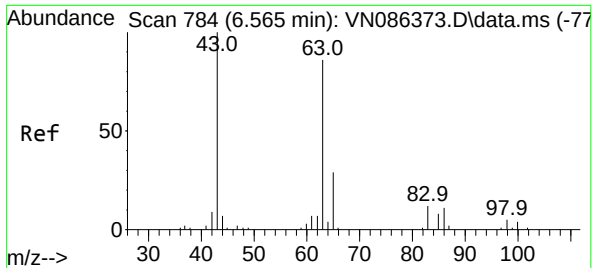
45 100

43 48.5 38.8 58.2

87 29.4 23.5 35.3

59 12.5 10.0 15.0





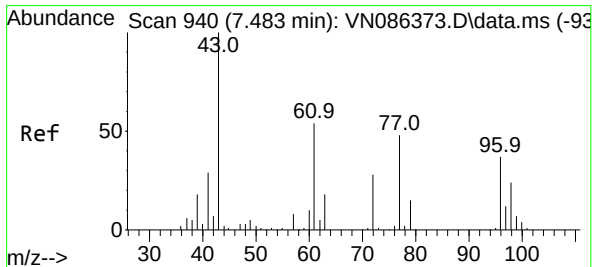
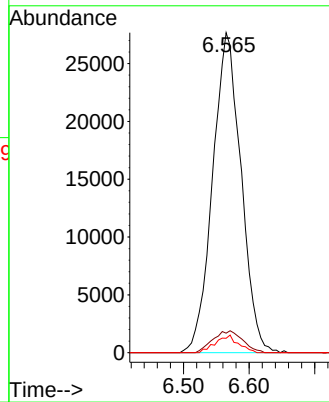
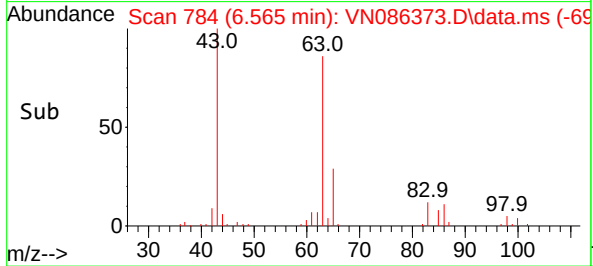
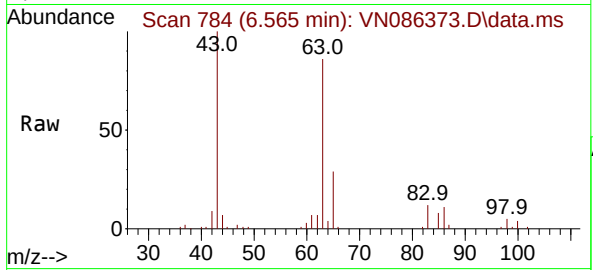
#21
1,1-Dichloroethane
Concen: 19.857 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 63 Resp: 8330
Ion Ratio Lower Upper
63 100
98 6.1 3.0 9.2
100 4.5 2.3 6.8

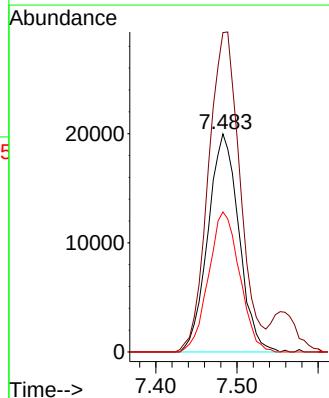
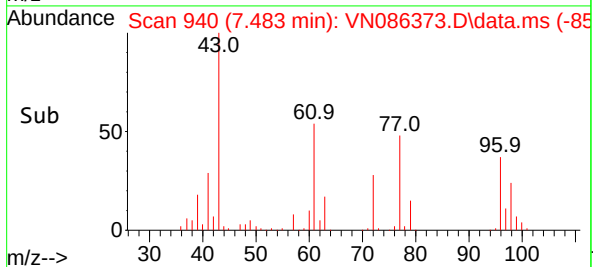
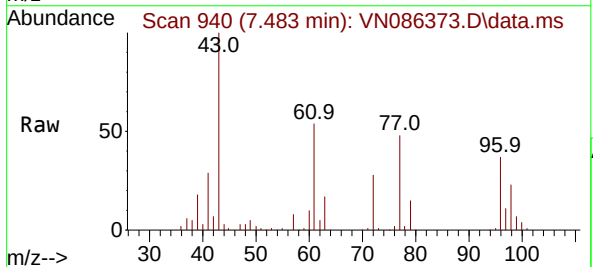
Manual Integrations
APPROVED

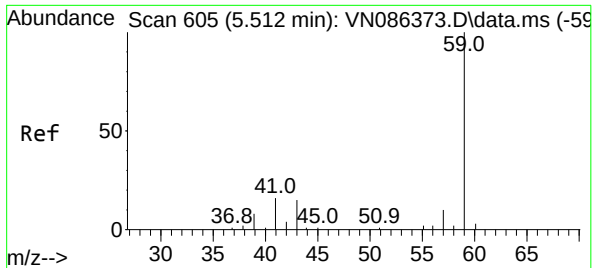
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 19.635 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 96 Resp: 52755
Ion Ratio Lower Upper
96 100
61 150.8 120.6 181.0
98 64.7 51.8 77.6





#23

tert-Butyl Alcohol

Concen: 106.266 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN086373.D

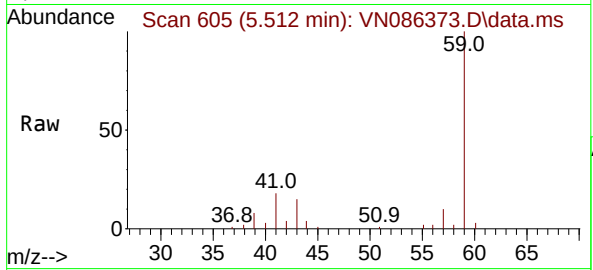
Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion: 59 Resp: 43778

Ion Ratio Lower Upper

59 100

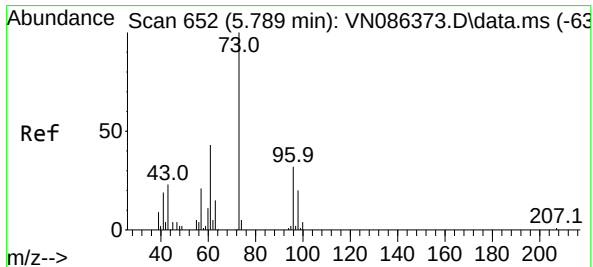
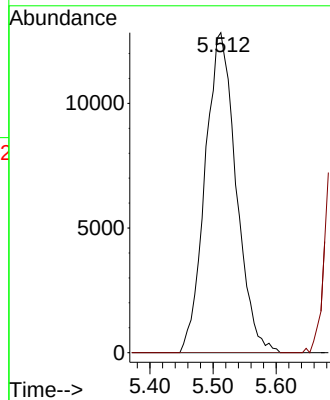
52 0.1 0.1 0.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#24

Methyl tert-Butyl Ether

Concen: 19.943 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086373.D

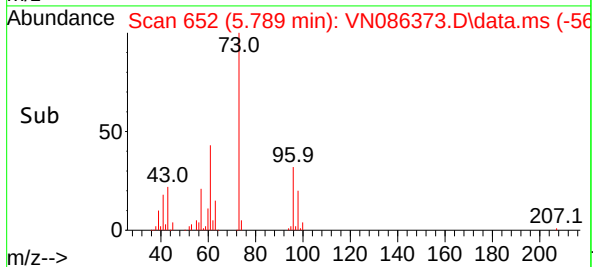
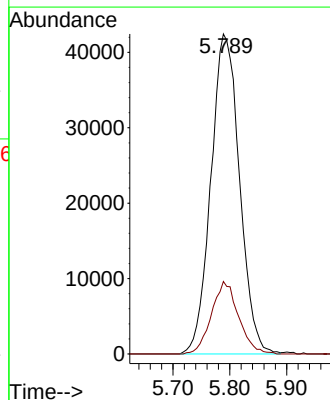
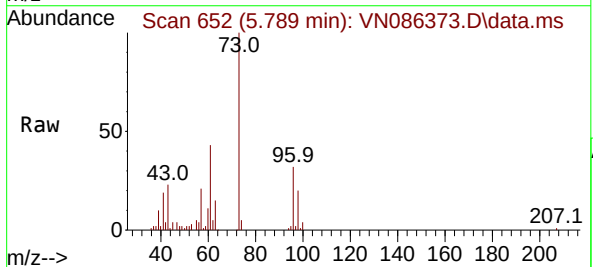
Acq: 23 Apr 2025 09:45

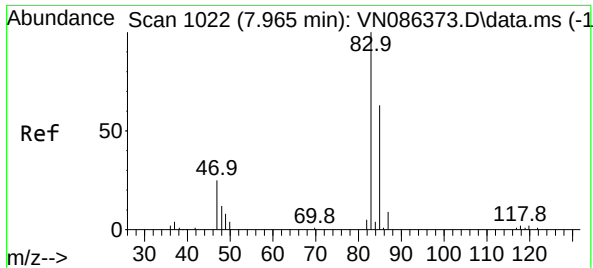
Tgt Ion: 73 Resp: 148542

Ion Ratio Lower Upper

73 100

43 21.4 17.1 25.7





#25

Chloroform

Concen: 20.241 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 8594

Ion Ratio Lower Upper

83 100

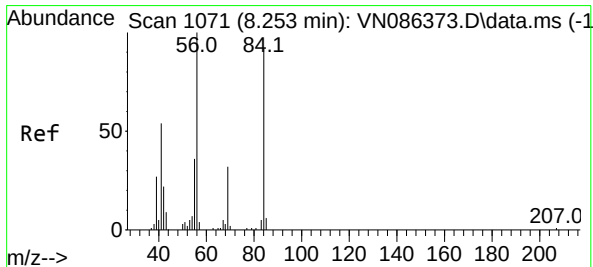
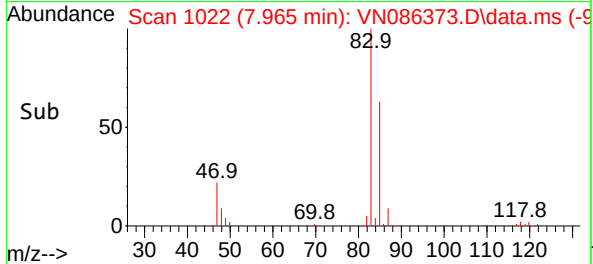
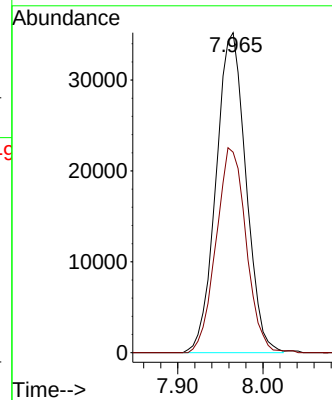
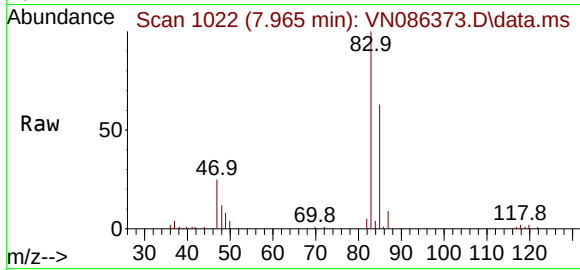
85 62.7 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 19.641 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

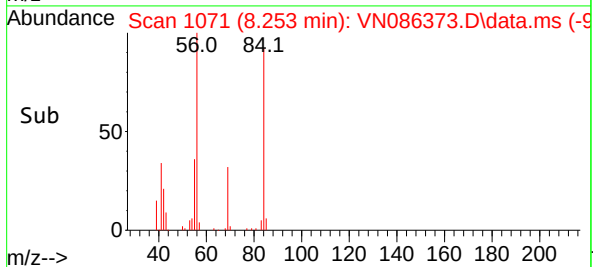
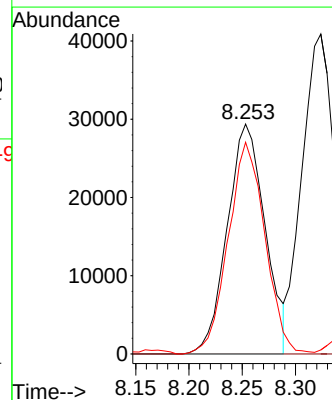
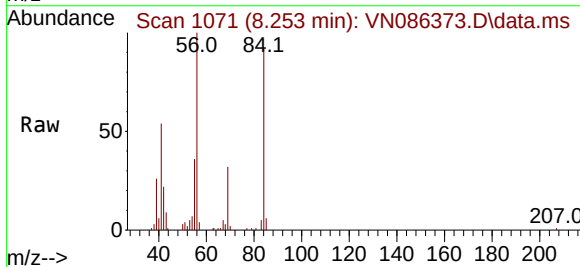
Tgt Ion: 56 Resp: 72755

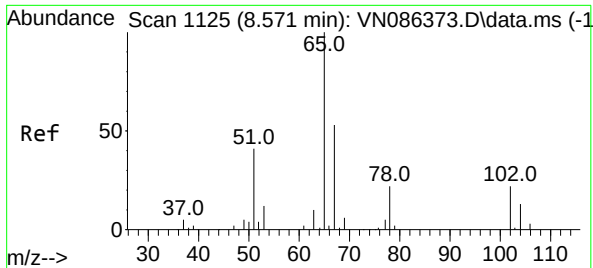
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

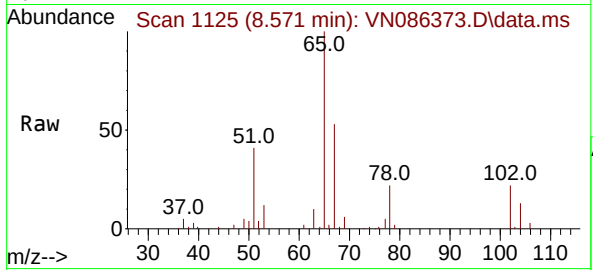
84 89.4 71.5 107.3





#27
1,2-Dichloroethane-d4
Concen: 30.895 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

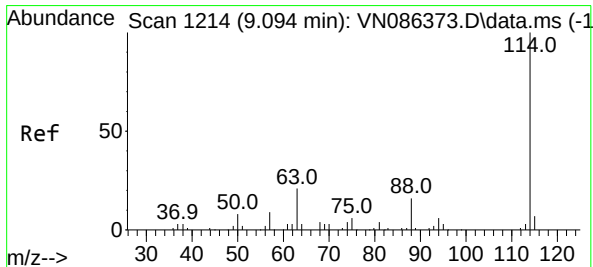
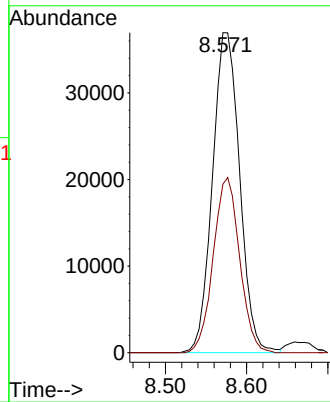
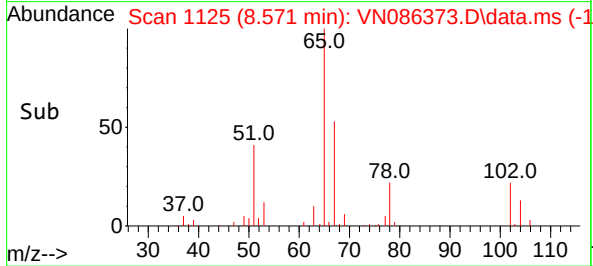
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 65 Resp: 86075
Ion Ratio Lower Upper
65 100
67 53.1 42.5 63.7

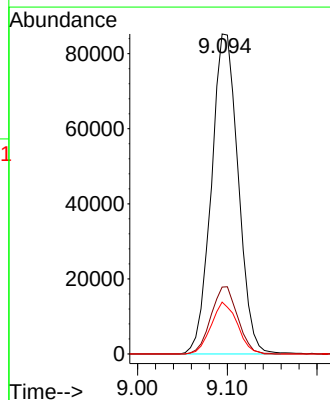
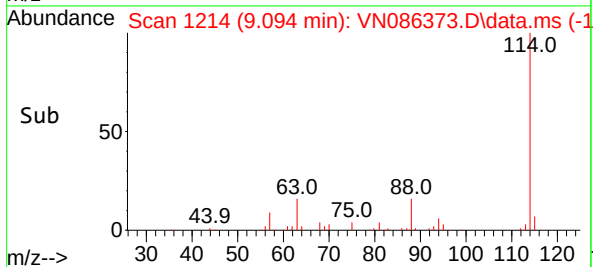
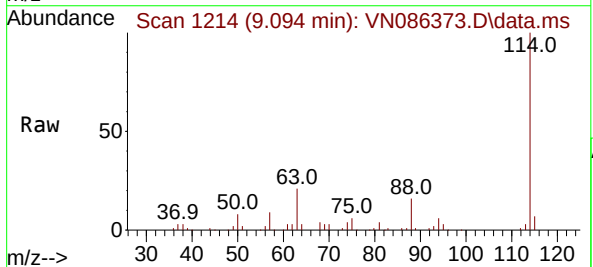
Manual Integrations
APPROVED

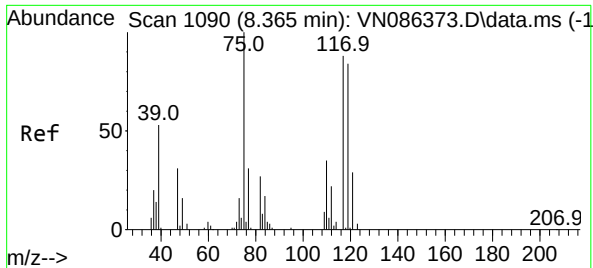
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:114 Resp: 176907
Ion Ratio Lower Upper
114 100
63 20.9 16.7 25.1
88 15.8 12.6 19.0





#29

1,1-Dichloropropene

Concen: 19.126 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

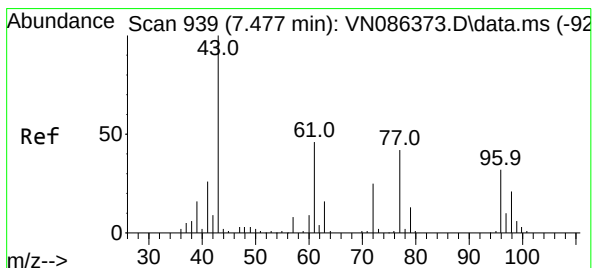
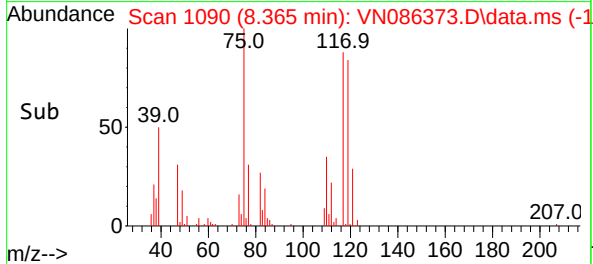
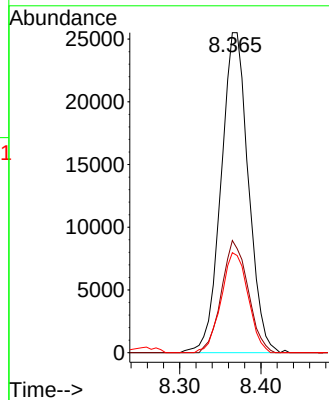
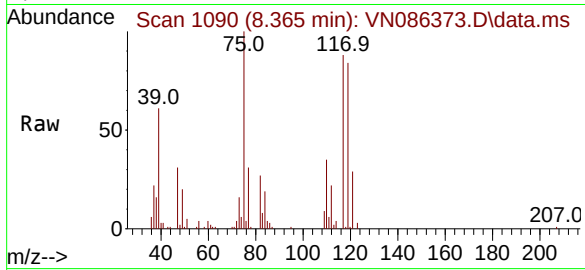
Tgt Ion:	75	Resp:	5964
Ion Ratio	Lower	Upper	
75	100		
110	34.0	0.0	68.0
77	30.7	0.0	61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 96.376 ug/l

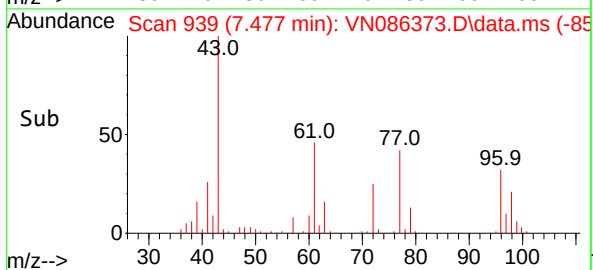
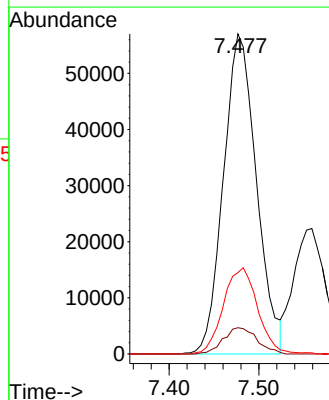
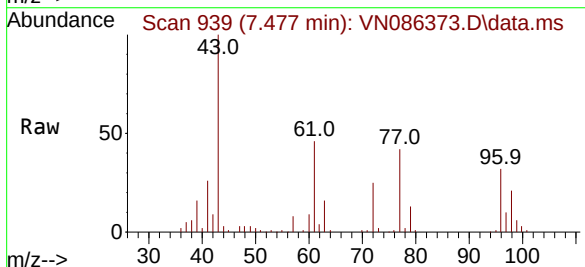
RT: 7.477 min Scan# 939

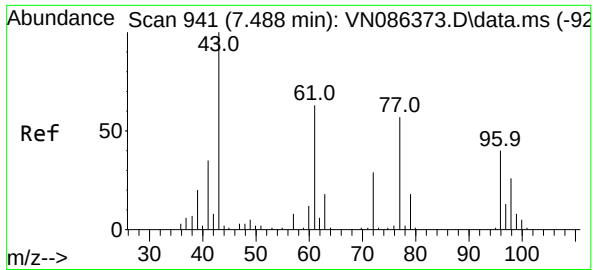
Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion:	43	Resp:	145888
Ion Ratio	Lower	Upper	
43	100		
57	8.3	6.6	10.0
72	27.8	22.2	33.4





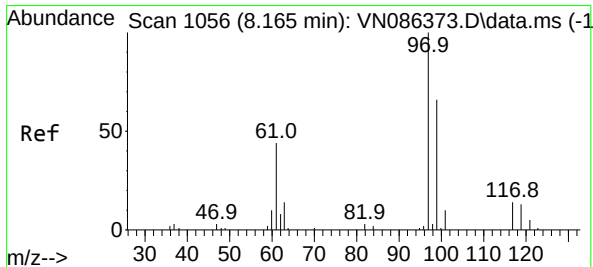
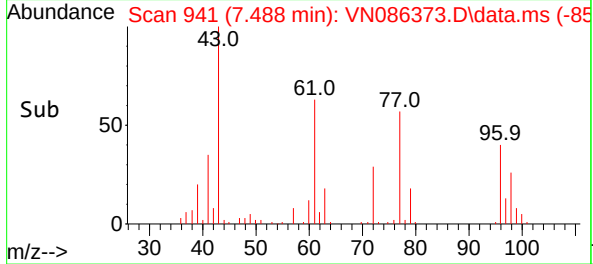
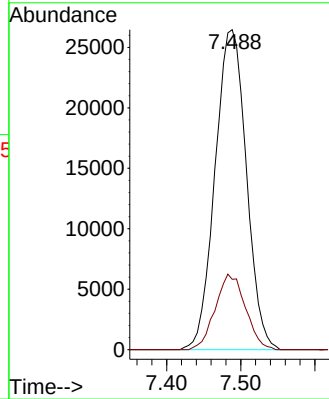
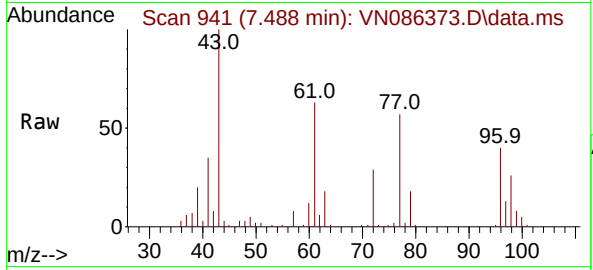
#31
2,2-Dichloropropane
Concen: 19.370 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 77 Resp: 7765
Ion Ratio Lower Upper
77 100
97 22.7 18.2 27.2

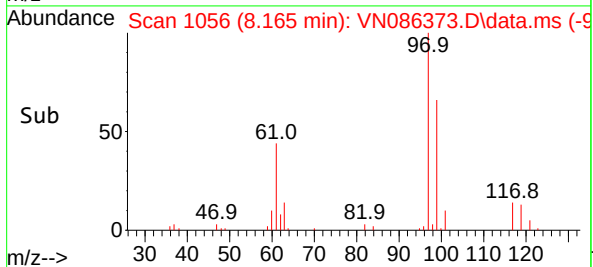
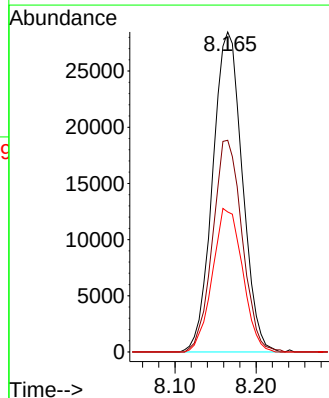
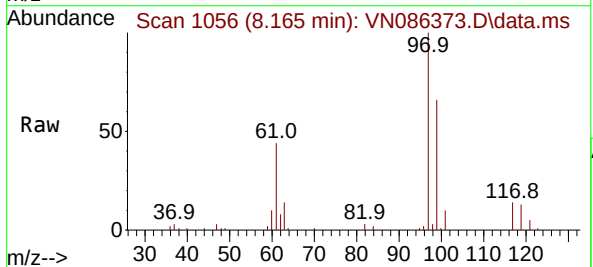
Manual Integrations
APPROVED

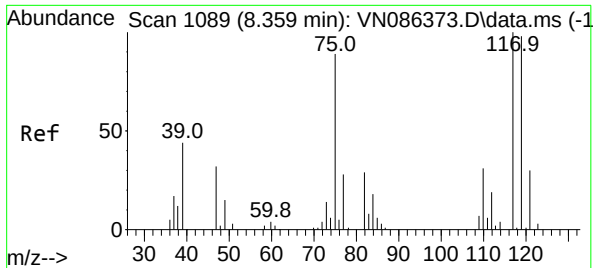
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#32
1,1,1-Trichloroethane
Concen: 19.409 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 97 Resp: 72334
Ion Ratio Lower Upper
97 100
99 65.8 52.6 79.0
61 45.5 36.4 54.6





#33

Carbon Tetrachloride

Concen: 19.546 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:117 Resp: 5996

Ion Ratio Lower Upper

117 100

119 98.2 78.6 117.8

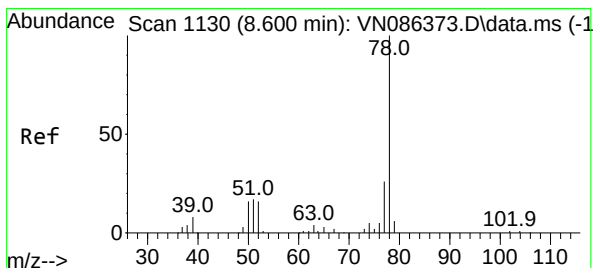
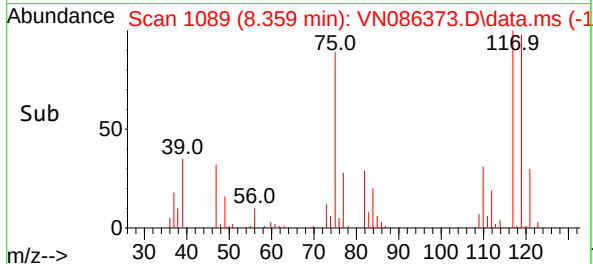
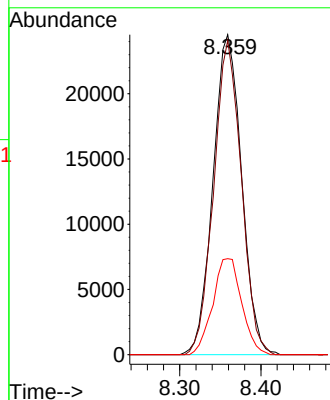
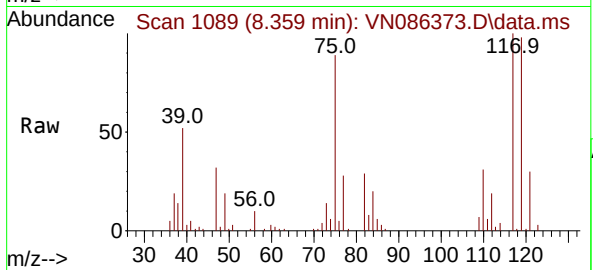
121 30.0 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#34

Benzene

Concen: 19.435 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

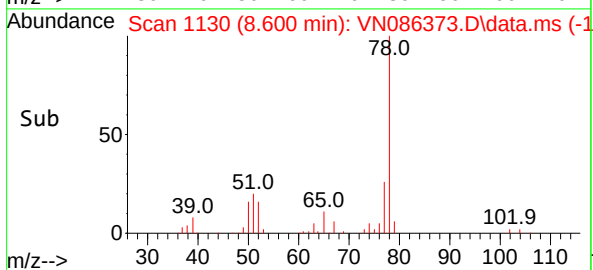
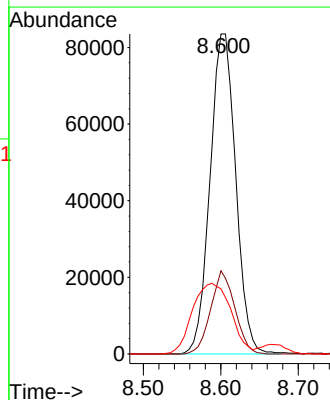
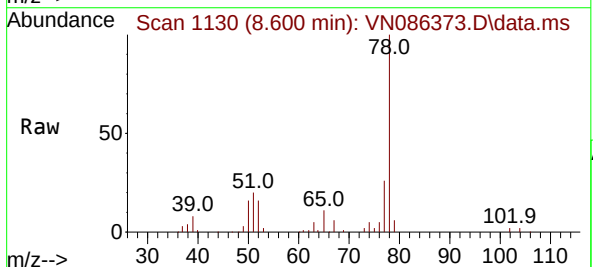
Tgt Ion: 78 Resp: 192789

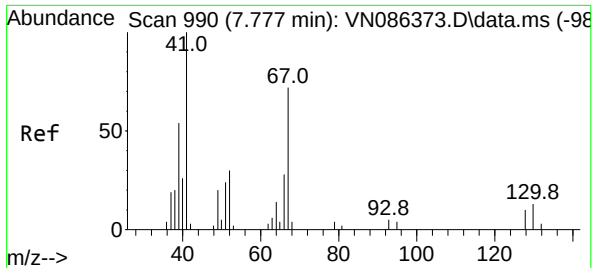
Ion Ratio Lower Upper

78 100

77 26.0 20.8 31.2

51 17.5 14.0 21.0





#35

Methacrylonitrile

Concen: 20.411 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 35249

Ion Ratio Lower Upper

41 100

39 53.9 27.0 80.8

67 71.5 35.8 107.3

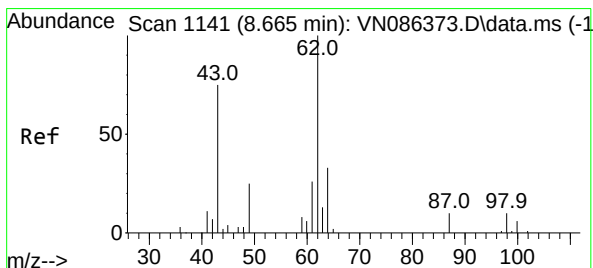
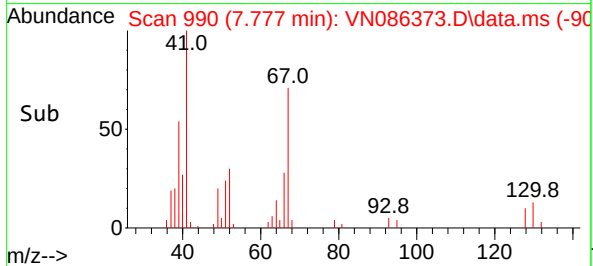
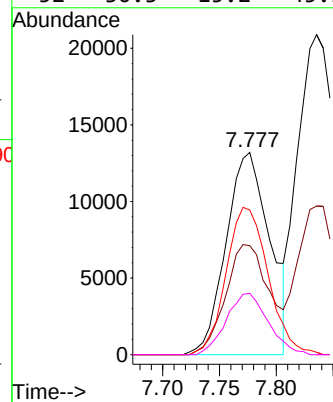
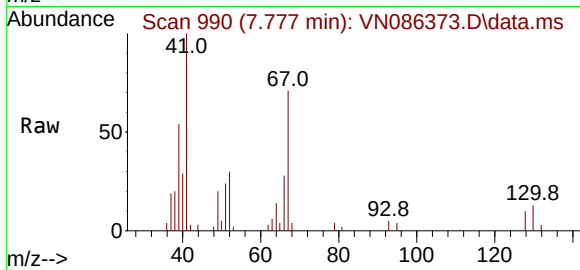
52 30.3 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 19.502 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN086373.D

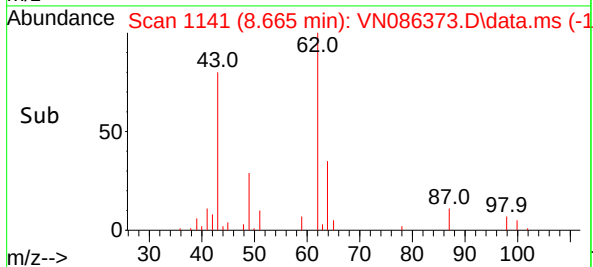
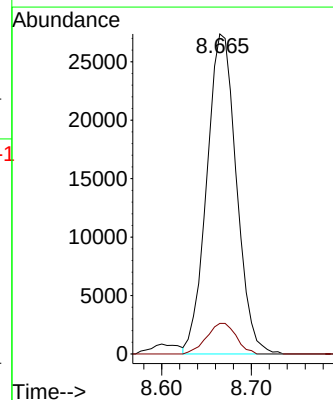
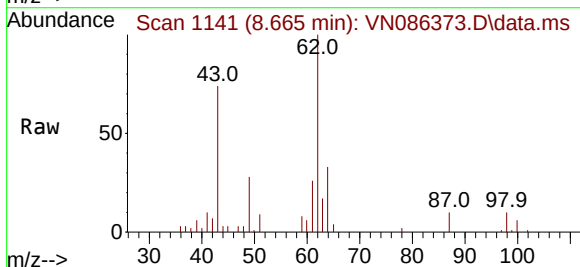
Acq: 23 Apr 2025 09:45

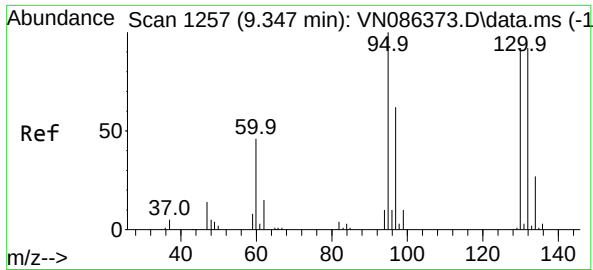
Tgt Ion: 62 Resp: 62808

Ion Ratio Lower Upper

62 100

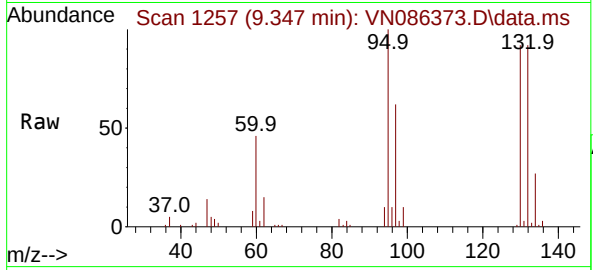
98 9.5 7.6 11.4





#37
Trichloroethene
Concen: 18.866 ug/l
RT: 9.347 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

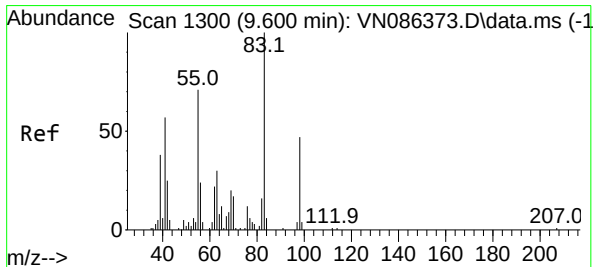
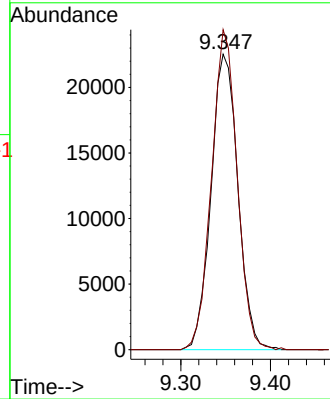
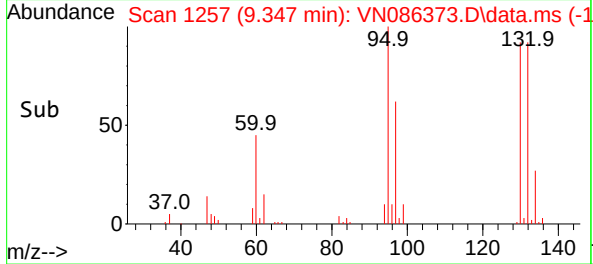
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



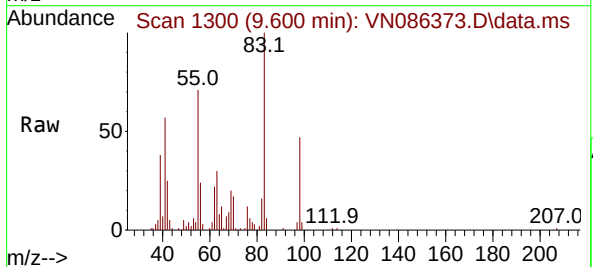
Tgt Ion:130 Resp: 46850
Ion Ratio Lower Upper
130 100
95 108.3 86.6 130.0

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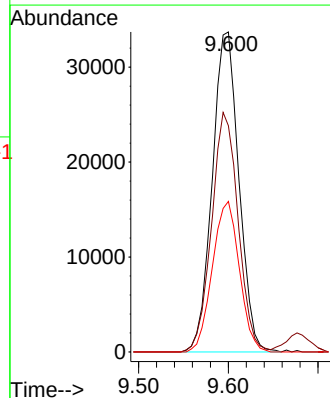
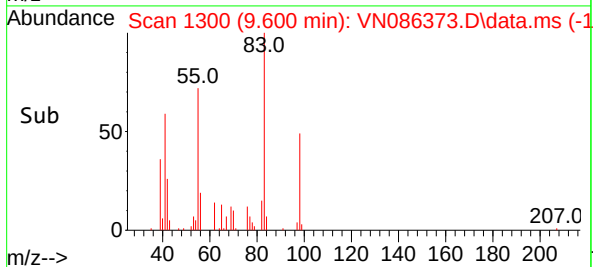
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

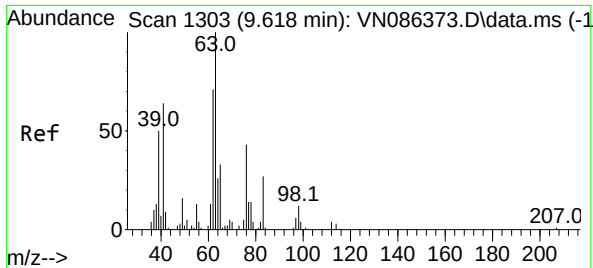


#38
Methylcyclohexane
Concen: 19.275 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



Tgt Ion: 83 Resp: 69428
Ion Ratio Lower Upper
83 100
55 74.6 37.3 111.9
98 47.7 23.8 71.5





#39

1,2-Dichloropropane

Concen: 19.340 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 47394

Ion Ratio Lower Upper

63 100

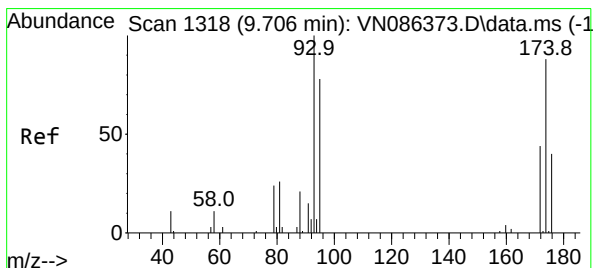
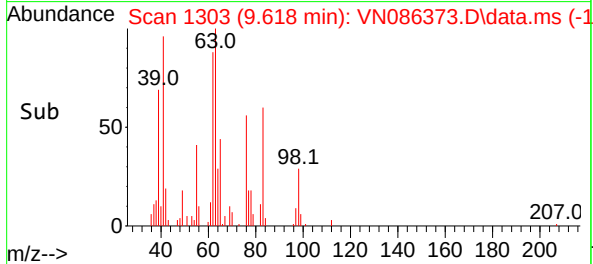
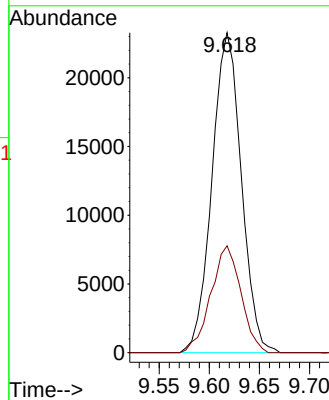
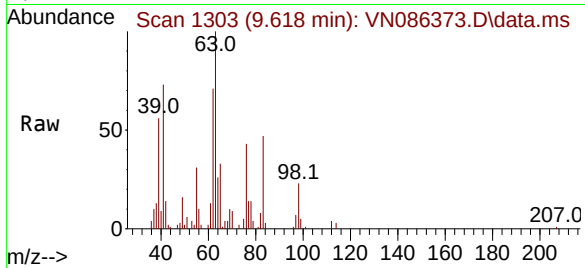
65 33.4 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 19.597 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

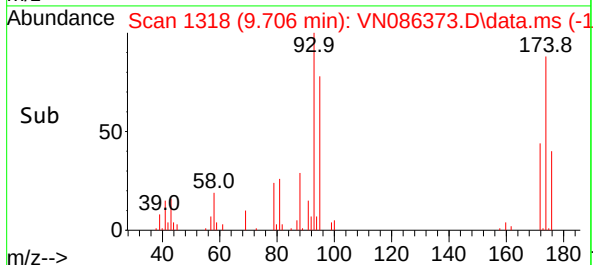
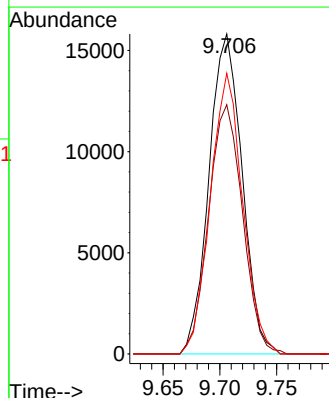
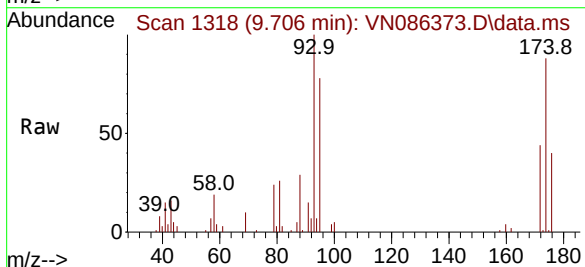
Tgt Ion: 93 Resp: 32116

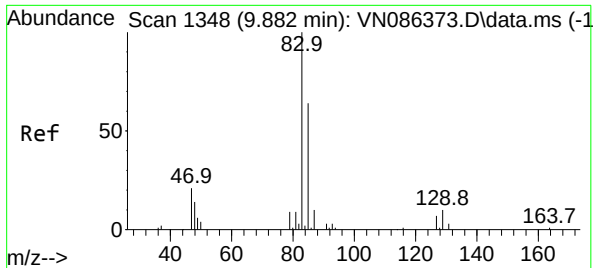
Ion Ratio Lower Upper

93 100

95 79.6 0.0 159.2

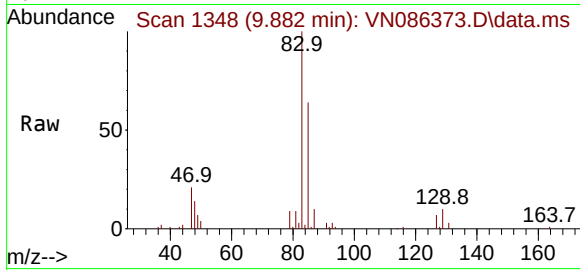
174 85.7 0.0 171.4





#41
Bromodichloromethane
Concen: 19.419 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

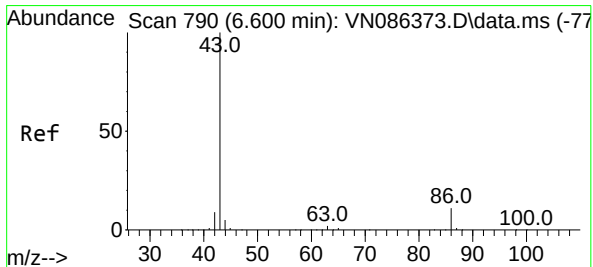
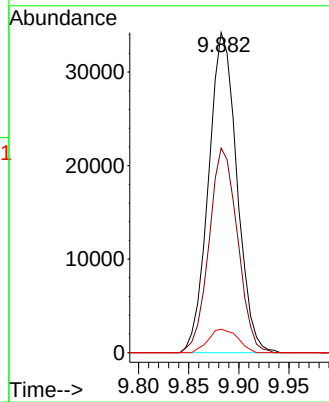
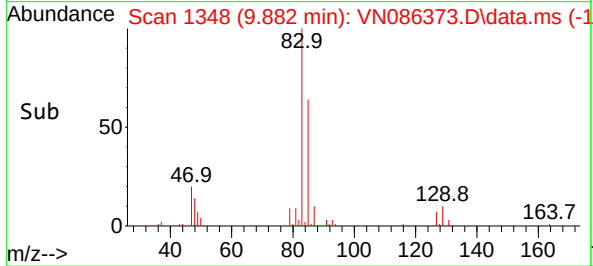
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 6734
Ion Ratio Lower Upper
83 100
85 63.9 51.1 76.7
127 7.4 5.9 8.9

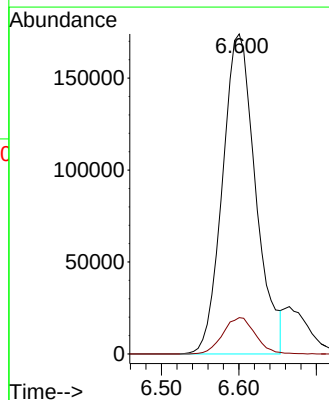
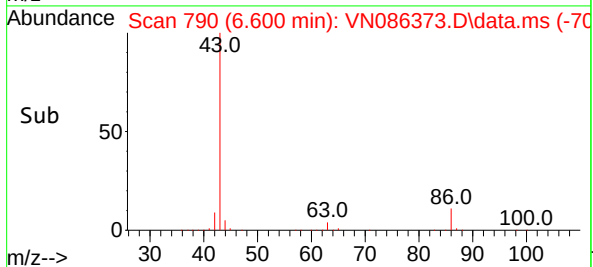
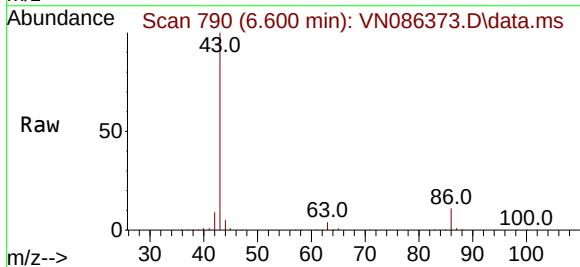
Manual Integrations
APPROVED

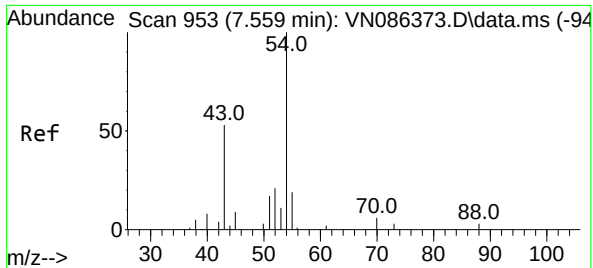
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 98.852 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 43 Resp: 518356
Ion Ratio Lower Upper
43 100
86 11.1 8.9 13.3





#43

Ethyl Acetate

Concen: 18.658 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

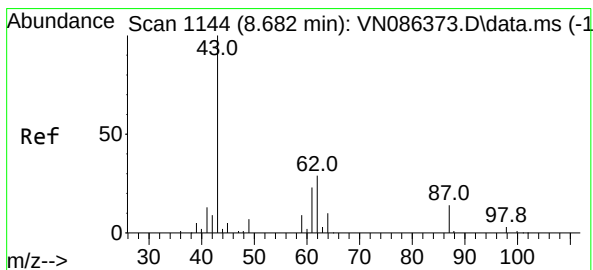
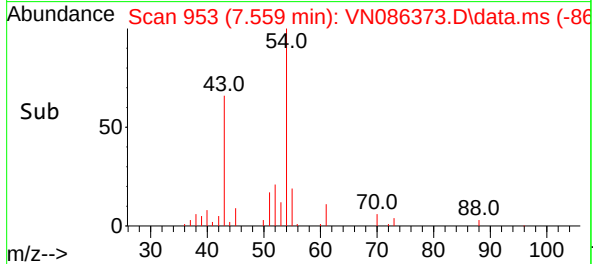
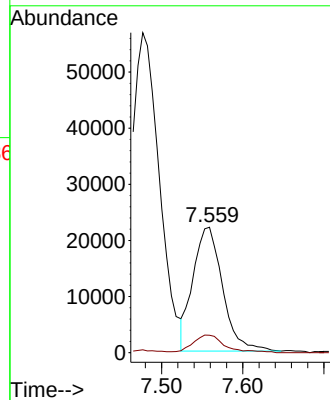
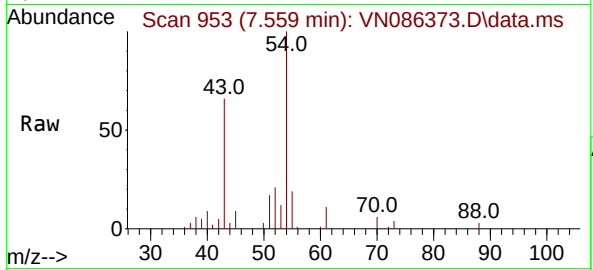
VSTDICCC020

Tgt Ion: 43 Resp: 55894
Ion Ratio Lower Upper
43 100
45 14.3 11.4 17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 19.334 ug/l

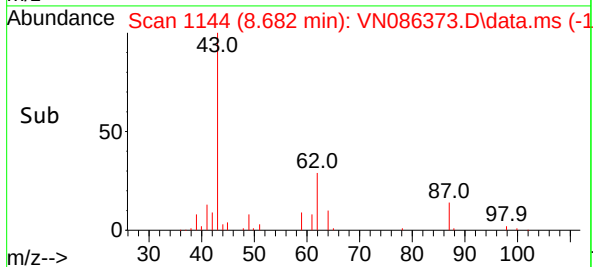
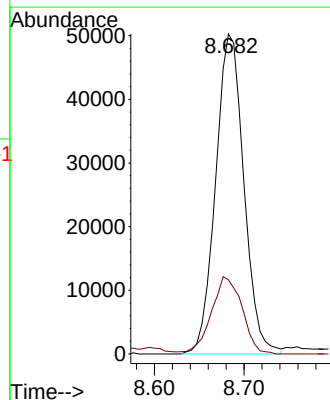
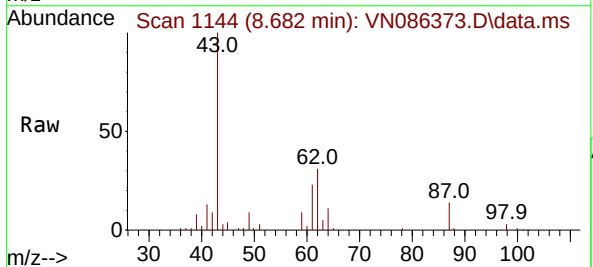
RT: 8.682 min Scan# 1144

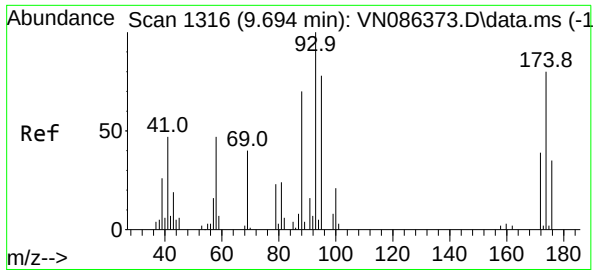
Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Tgt Ion: 43 Resp: 109922
Ion Ratio Lower Upper
43 100
61 26.2 21.0 31.4





#45

1,4-Dioxane

Concen: 405.300 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 17979

Ion Ratio Lower Upper

88 100

43 31.1 24.9 37.3

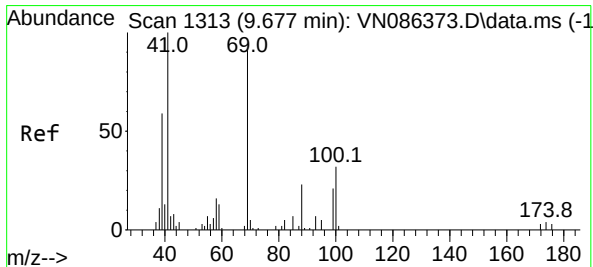
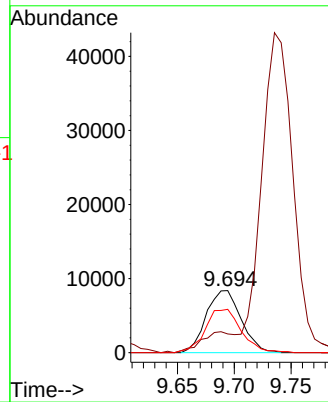
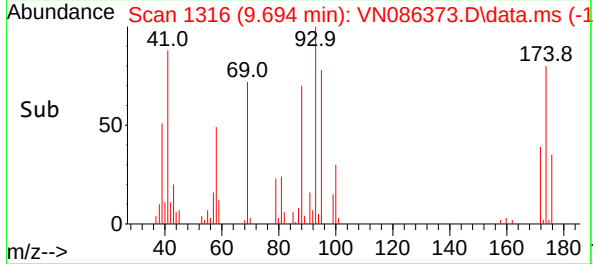
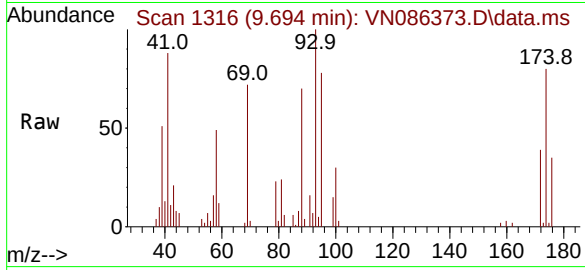
58 72.3 57.8 86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 19.367 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

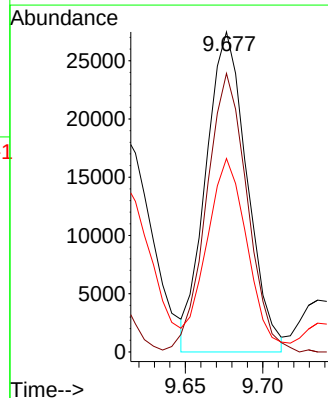
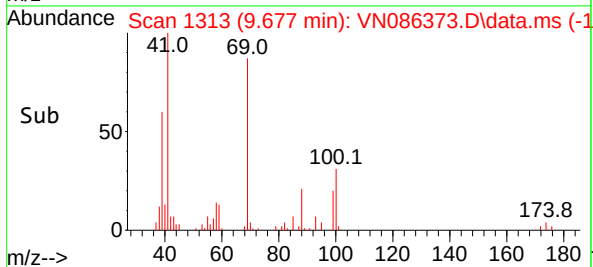
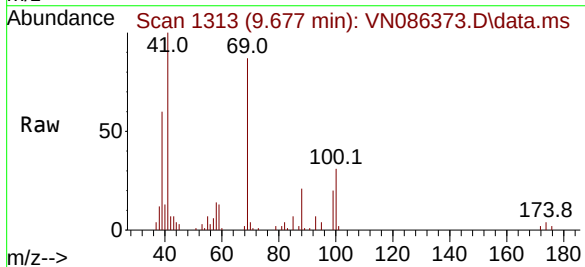
Tgt Ion: 41 Resp: 50790

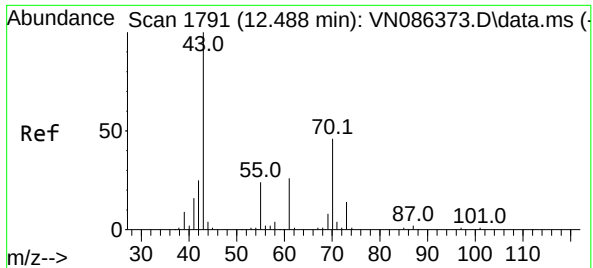
Ion Ratio Lower Upper

41 100

69 88.2 44.1 132.3

39 60.1 30.0 90.1





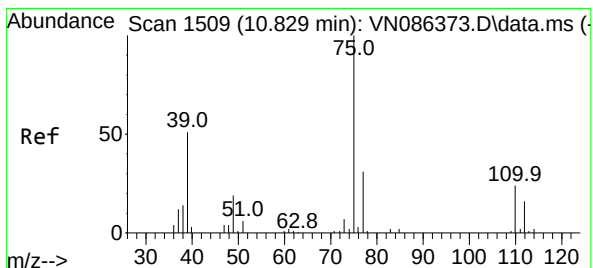
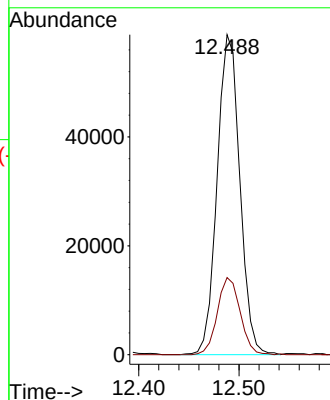
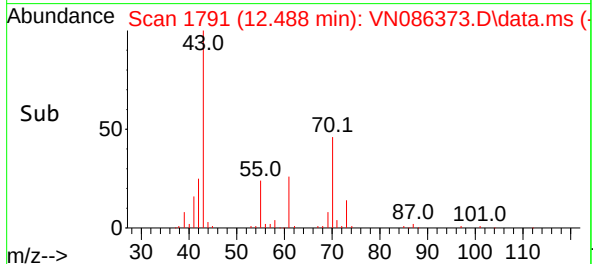
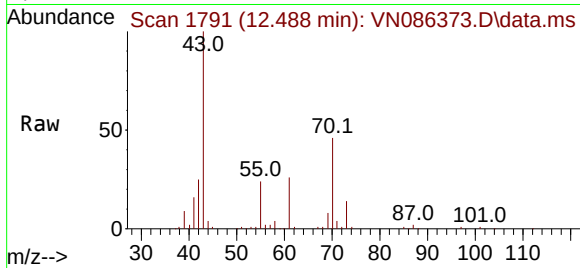
#47
n-amy1 Acetate
Concen: 19.045 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 43 Resp: 92290
Ion Ratio Lower Upper
43 100
55 24.2 19.4 29.0

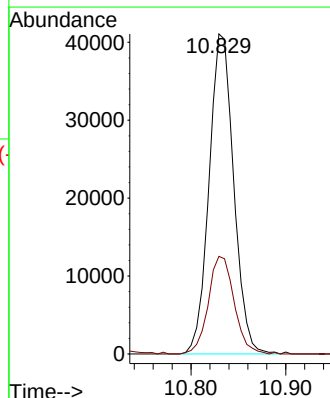
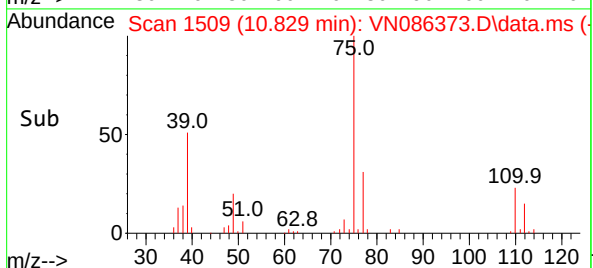
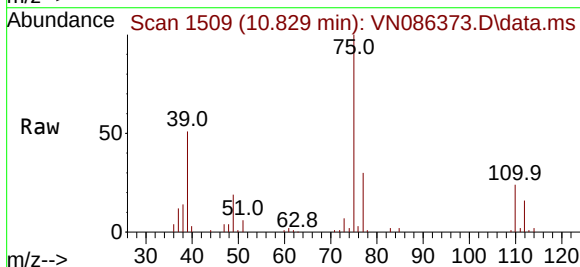
Manual Integrations
APPROVED

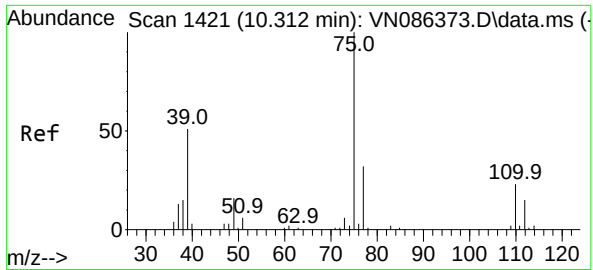
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#48
t-1,3-Dichloropropene
Concen: 19.132 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

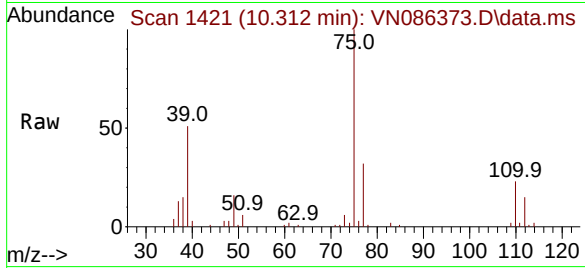
Tgt Ion: 75 Resp: 74180
Ion Ratio Lower Upper
75 100
77 30.5 24.4 36.6





#49
cis-1,3-Dichloropropene
Concen: 19.159 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

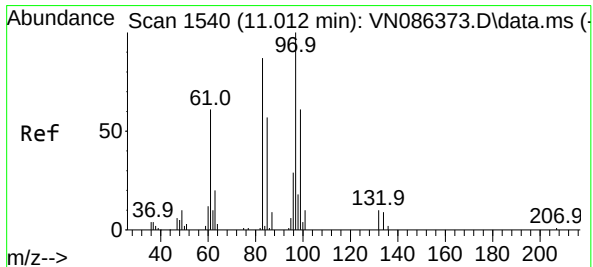
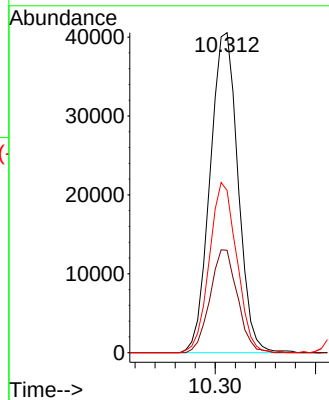
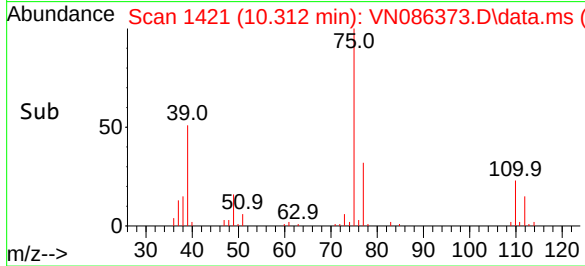
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 75 Resp: 7833
Ion Ratio Lower Upper
75 100
77 32.0 25.6 38.4
39 50.7 40.6 60.8

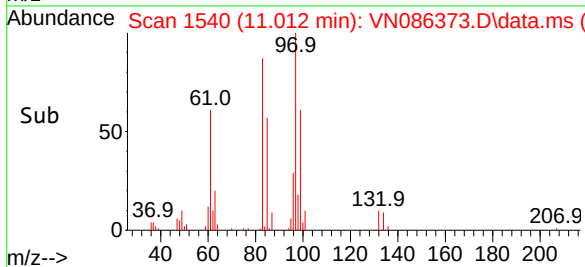
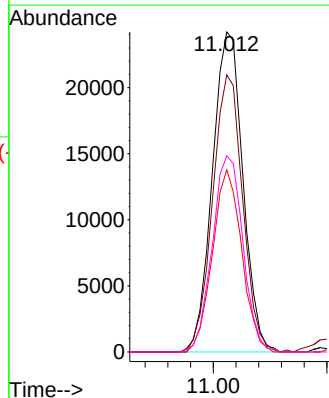
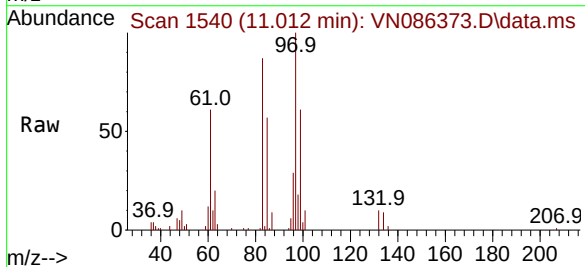
Manual Integrations
APPROVED

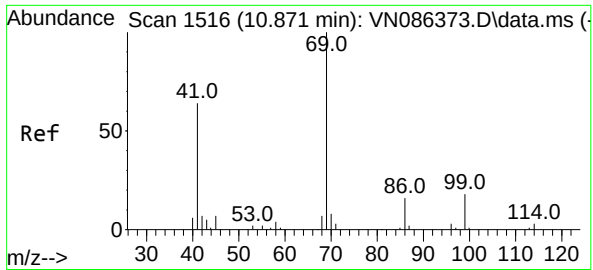
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#50
1,1,2-Trichloroethane
Concen: 19.712 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

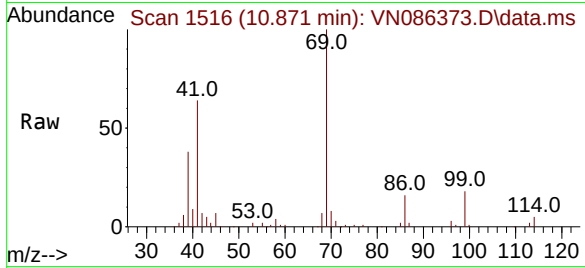
Tgt Ion: 97 Resp: 45121
Ion Ratio Lower Upper
97 100
83 86.6 69.3 103.9
85 56.9 45.5 68.3
99 61.3 49.0 73.6





#51
Ethyl methacrylate
Concen: 19.128 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

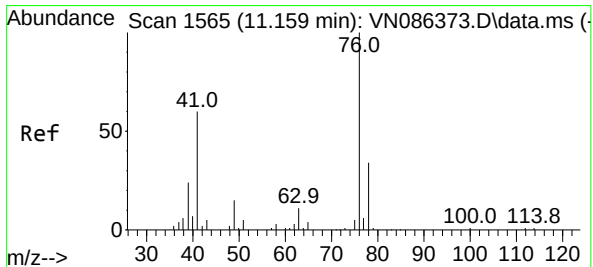
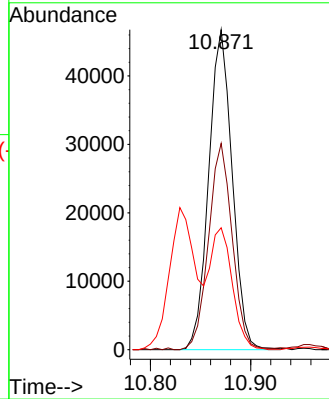
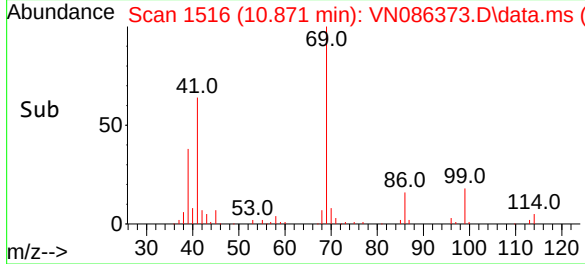
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 69 Resp: 7625
Ion Ratio Lower Upper
69 100
41 64.5 32.3 96.8
39 38.1 19.1 57.1

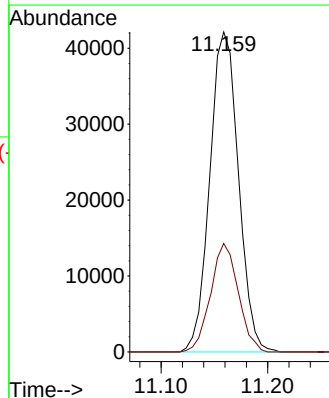
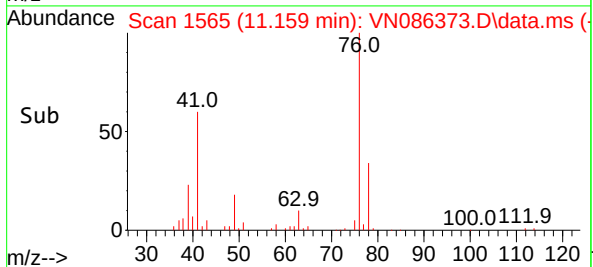
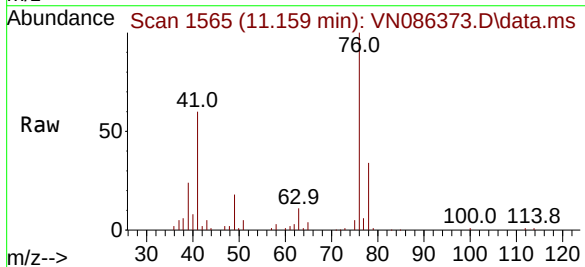
Manual Integrations
APPROVED

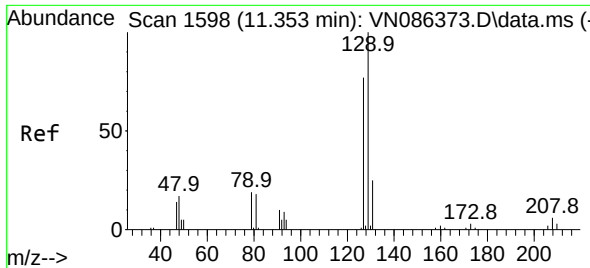
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 19.439 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

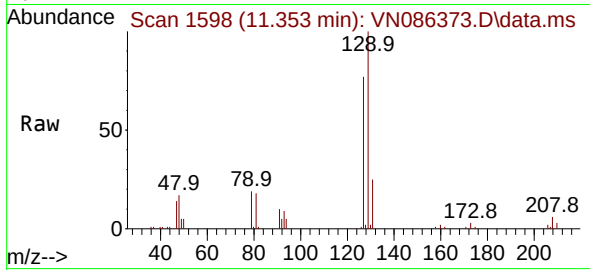
Tgt Ion: 76 Resp: 78642
Ion Ratio Lower Upper
76 100
78 32.8 0.0 65.6





#53
Dibromochloromethane
Concen: 19.243 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

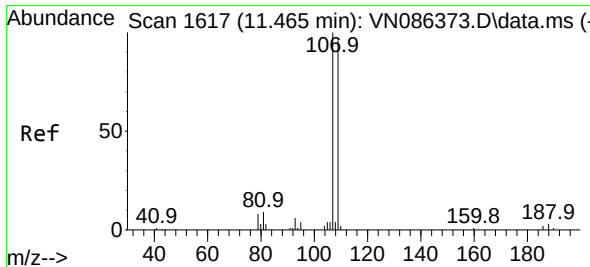
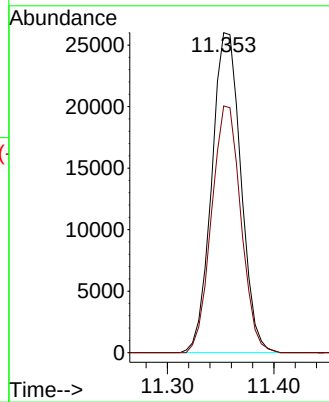
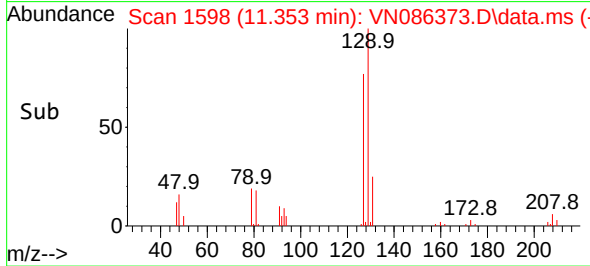
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



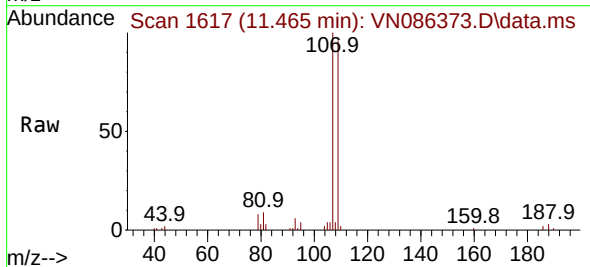
Tgt Ion:129 Resp: 49462
Ion Ratio Lower Upper
129 100
127 77.5 38.8 116.3

Manual Integrations
APPROVED

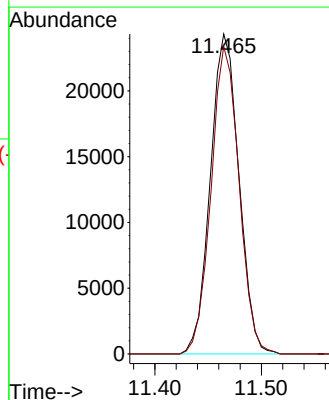
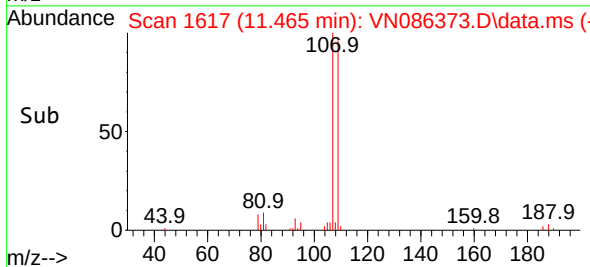
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

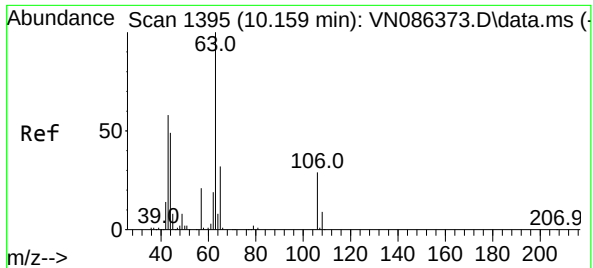


#54
1,2-Dibromoethane
Concen: 19.447 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



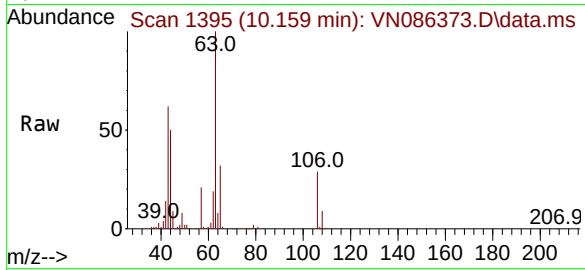
Tgt Ion:107 Resp: 45261
Ion Ratio Lower Upper
107 100
109 94.2 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 97.314 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

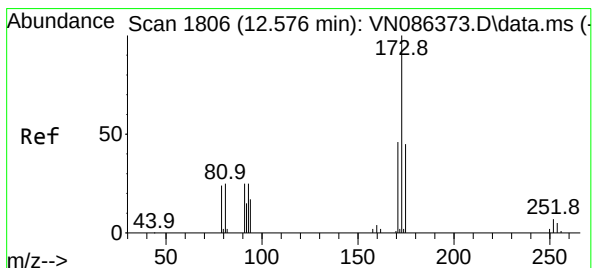
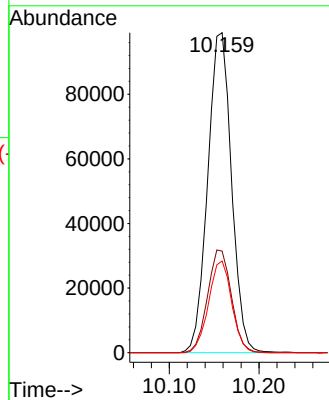
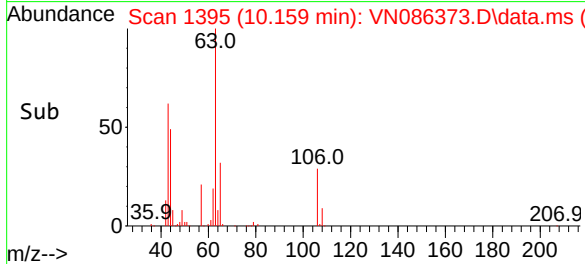
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 63 Resp: 182398
Ion Ratio Lower Upper
63 100
65 32.1 25.7 38.5
106 27.9 22.3 33.5

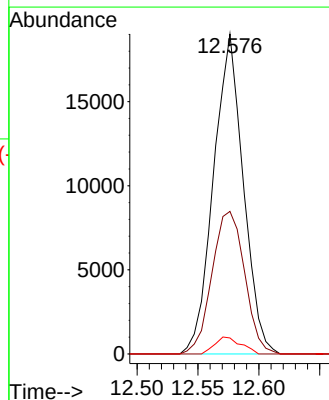
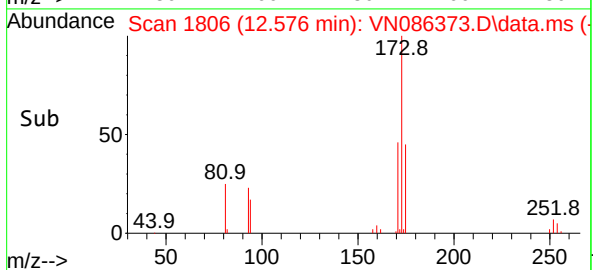
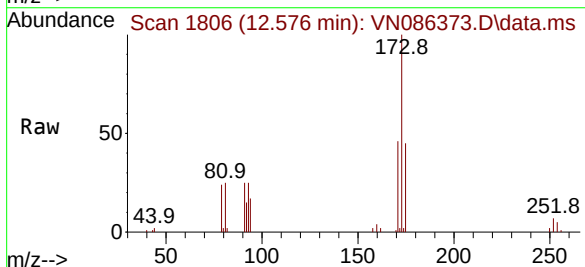
Manual Integrations
APPROVED

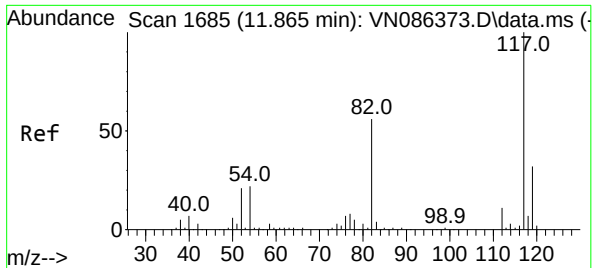
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 19.406 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

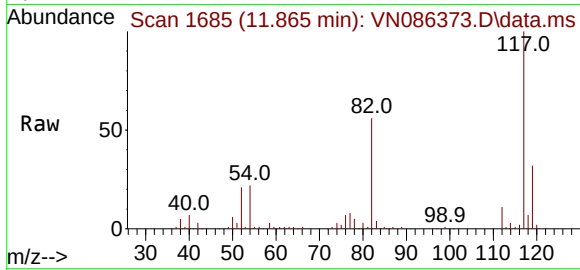
Tgt Ion:173 Resp: 32369
Ion Ratio Lower Upper
173 100
175 48.8 39.0 58.6
254 4.7 3.8 5.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

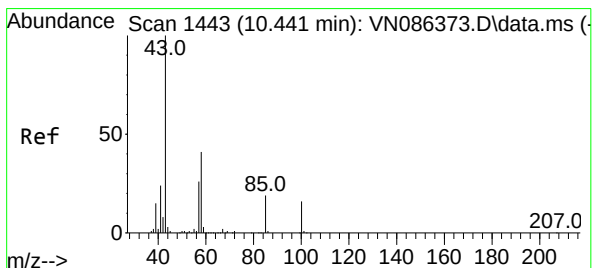
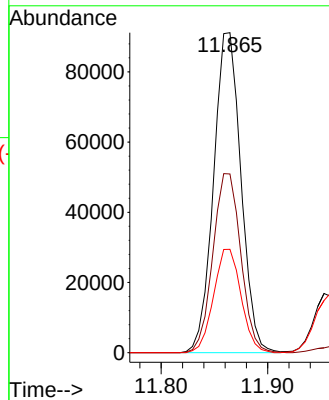
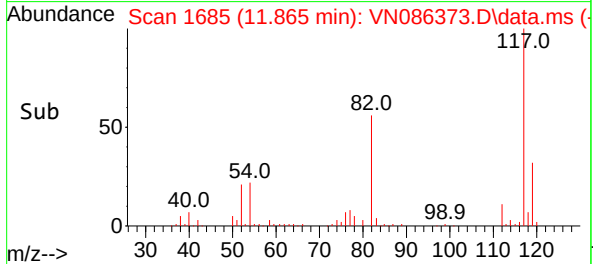
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 117 Resp: 16301
Ion Ratio Lower Upper
117 100
82 56.9 45.5 68.3
119 32.4 25.9 38.9

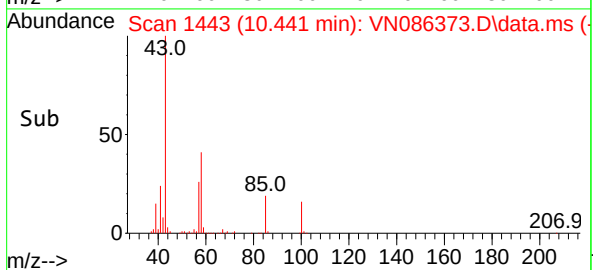
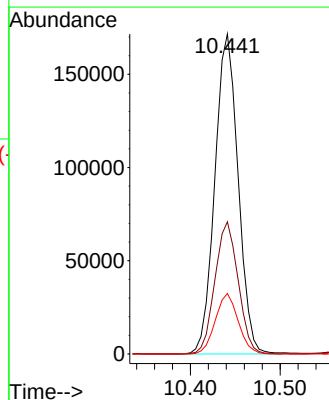
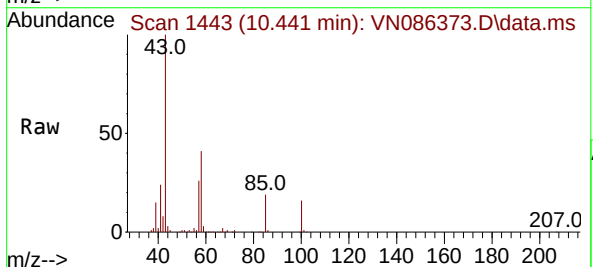
Manual Integrations
APPROVED

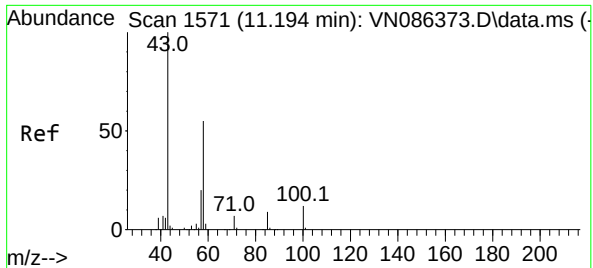
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 97.881 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

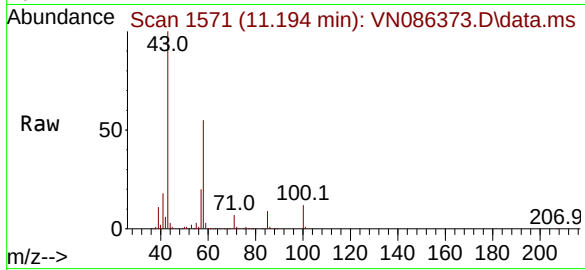
Tgt Ion: 43 Resp: 308775
Ion Ratio Lower Upper
43 100
58 41.3 33.0 49.6
85 18.6 14.9 22.3





#59
2-Hexanone
Concen: 98.024 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

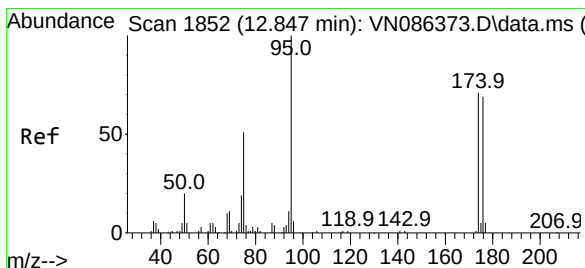
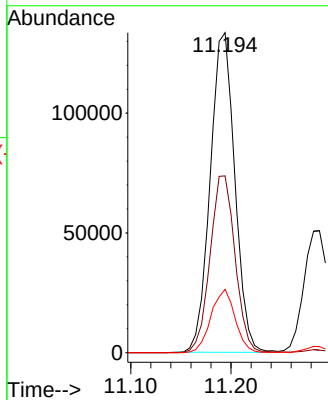
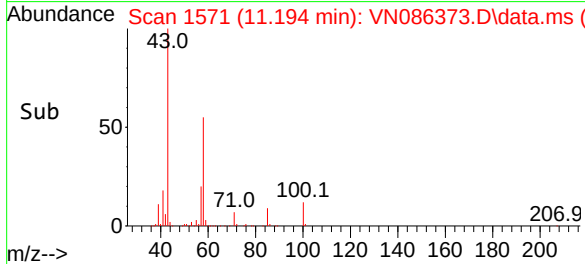
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 43 Resp: 227878
Ion Ratio Lower Upper
43 100
58 56.3 45.0 67.6
57 19.4 15.5 23.3

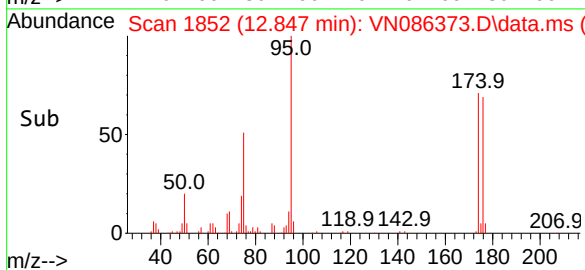
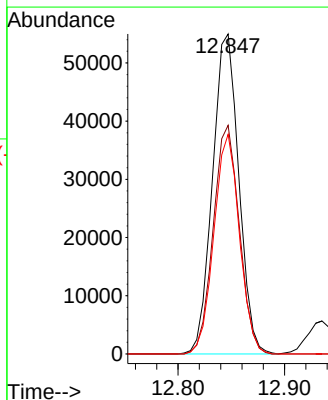
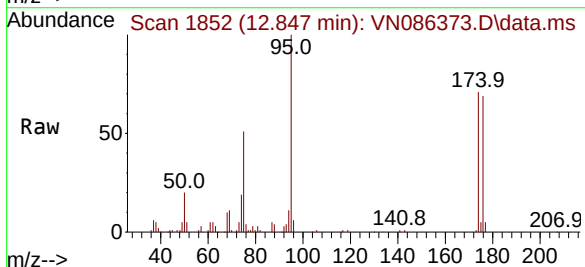
Manual Integrations
APPROVED

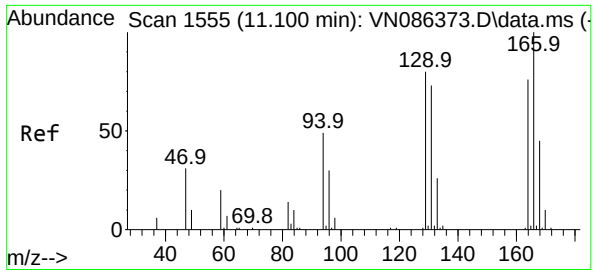
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#60
4-Bromofluorobenzene
Concen: 29.376 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

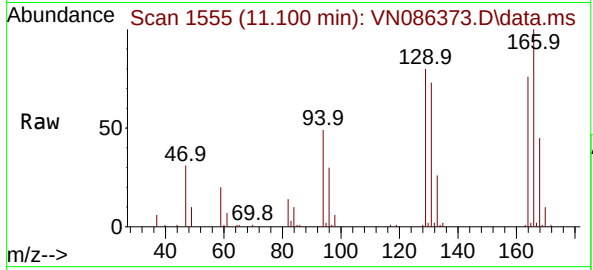
Tgt Ion: 95 Resp: 94119
Ion Ratio Lower Upper
95 100
174 70.7 56.6 84.8
176 66.6 53.3 79.9





#61
Tetrachloroethene
Concen: 18.888 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

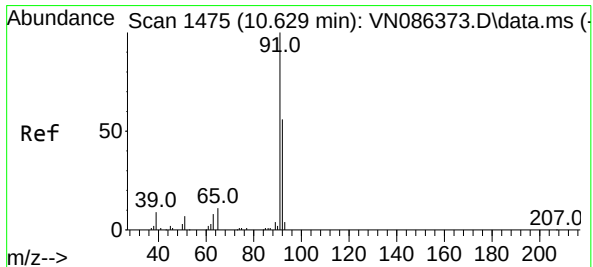
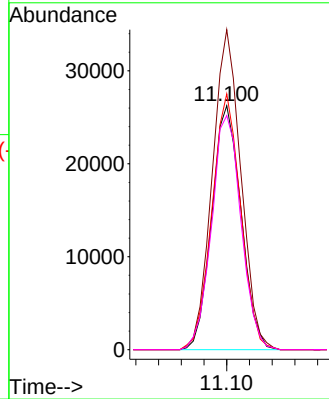
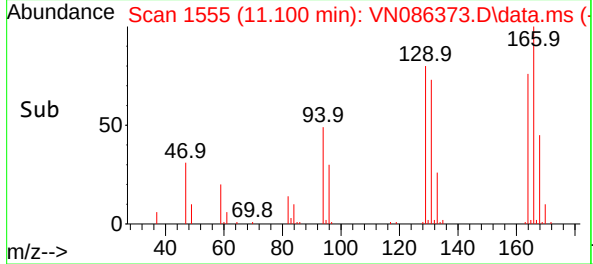
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



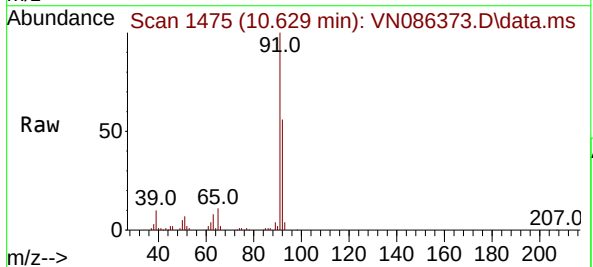
Tgt Ion:164 Resp: 46962
Ion Ratio Lower Upper
164 100
166 131.2 105.0 157.4
129 104.9 83.9 125.9
131 95.9 76.7 115.1

Manual Integrations
APPROVED

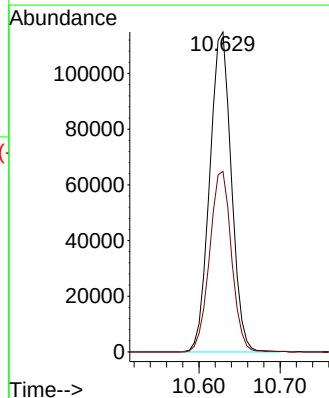
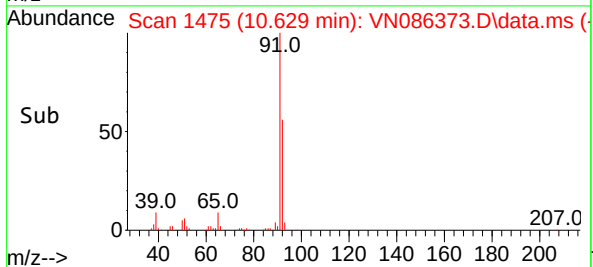
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

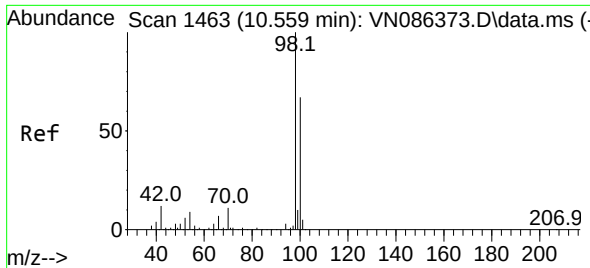


#62
Toluene
Concen: 19.492 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



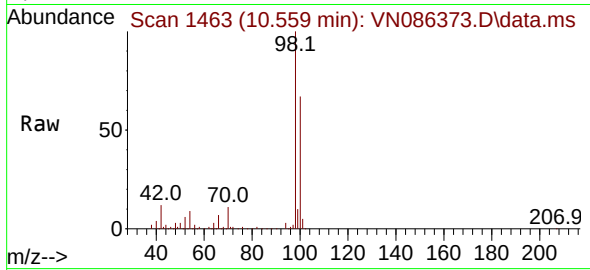
Tgt Ion: 91 Resp: 212695
Ion Ratio Lower Upper
91 100
92 57.1 45.7 68.5





#63
Toluene-d8
Concen: 30.171 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

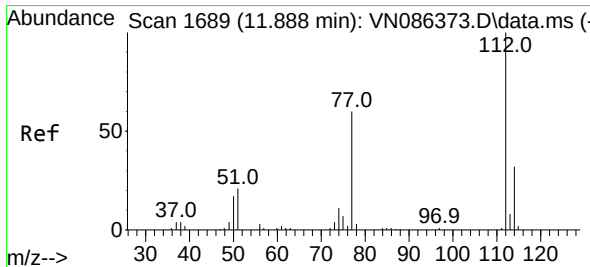
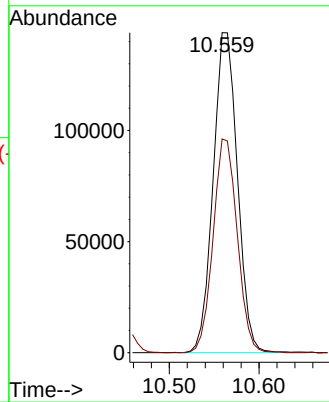
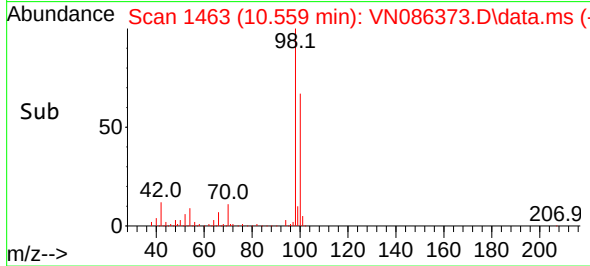
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 98 Resp: 270583
Ion Ratio Lower Upper
98 100
100 66.4 53.1 79.7

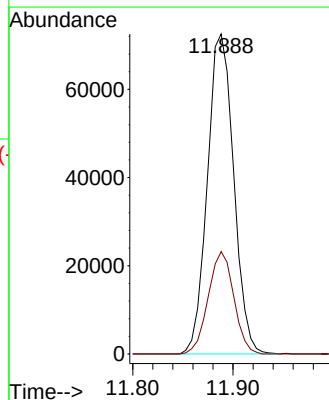
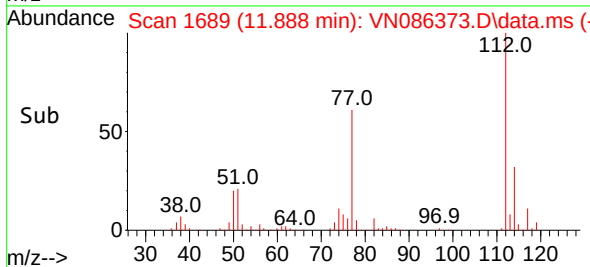
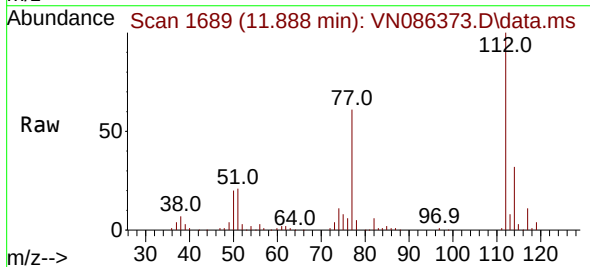
Manual Integrations
APPROVED

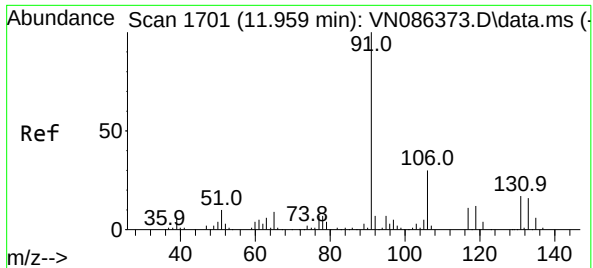
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 19.432 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

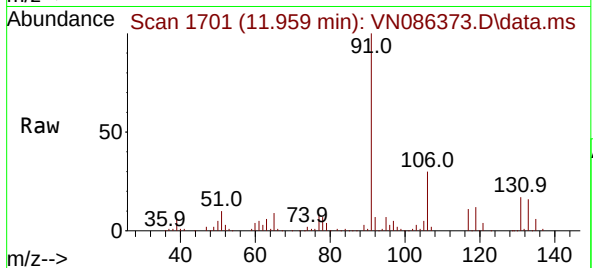
Tgt Ion:112 Resp: 132119
Ion Ratio Lower Upper
112 100
114 32.0 25.6 38.4





#65
1,1,1,2-Tetrachloroethane
Concen: 19.241 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

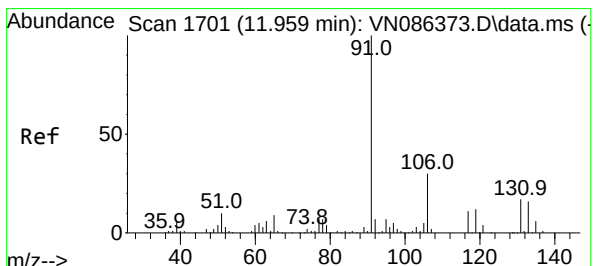
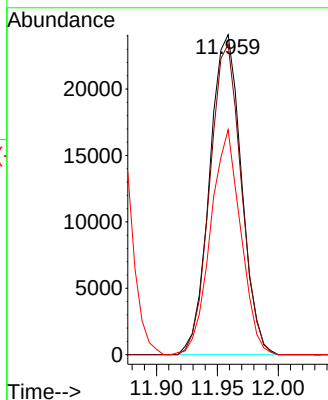
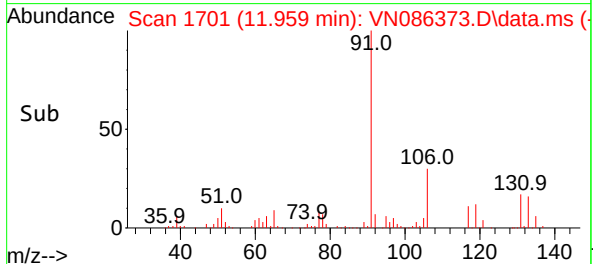
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:131 Resp: 43742
Ion Ratio Lower Upper
131 100
133 95.7 0.0 191.4
119 66.8 0.0 133.6

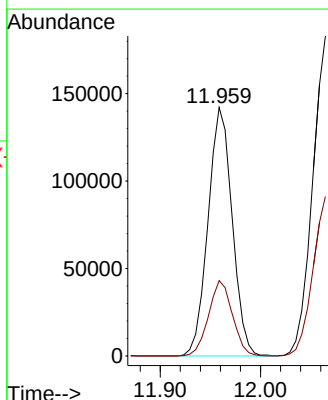
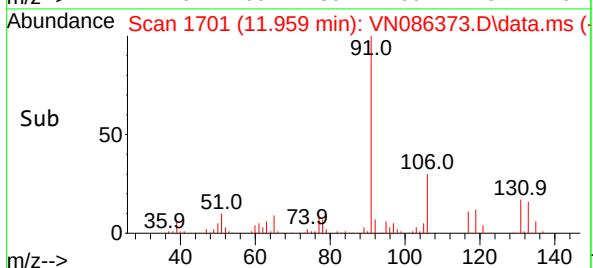
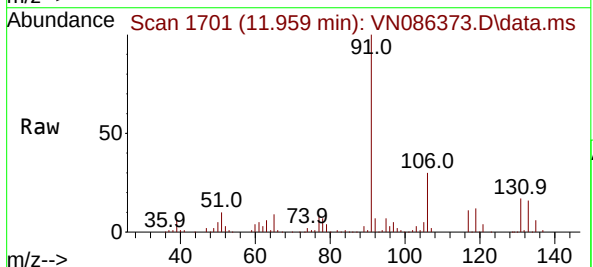
Manual Integrations
APPROVED

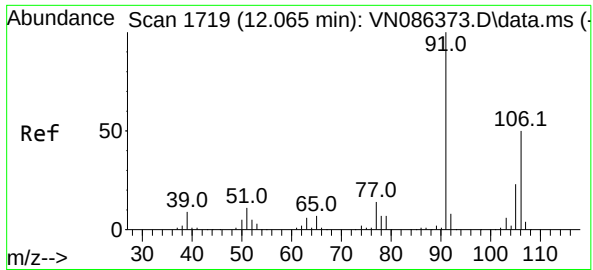
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#66
Ethyl Benzene
Concen: 19.350 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 91 Resp: 237663
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5





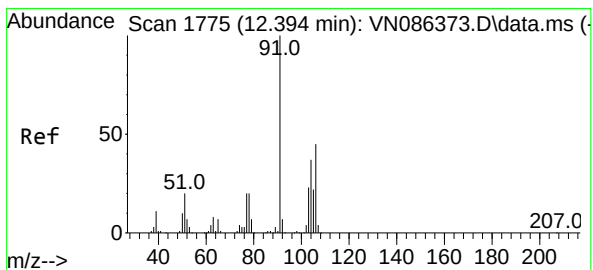
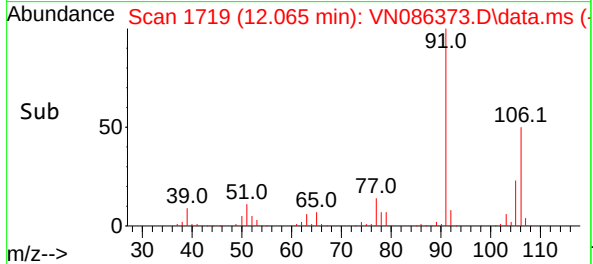
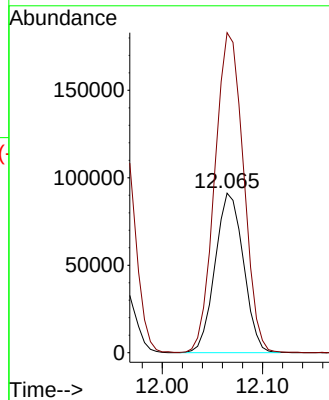
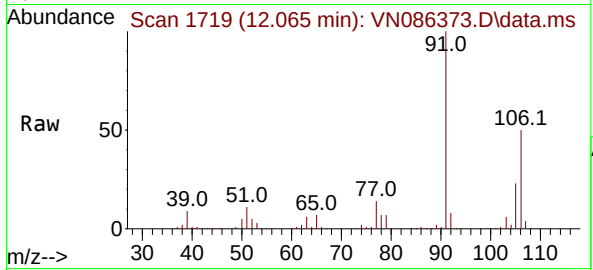
#67
m/p-Xylenes
Concen: 38.428 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:106 Resp: 179085
Ion Ratio Lower Upper
106 100
91 203.2 162.6 243.8

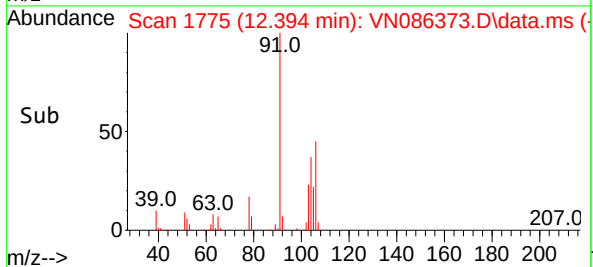
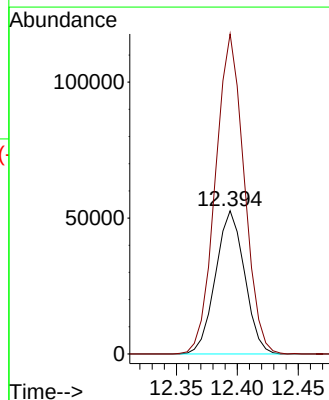
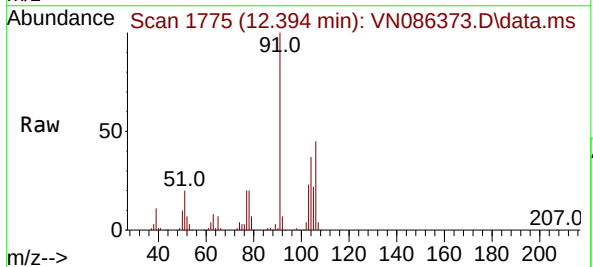
Manual Integrations
APPROVED

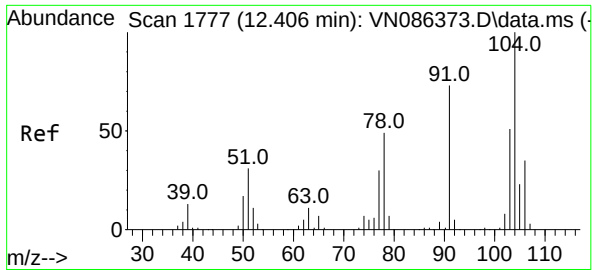
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 19.149 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:106 Resp: 87377
Ion Ratio Lower Upper
106 100
91 221.1 110.6 331.6





#69

Styrene

Concen: 18.983 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:104 Resp: 14681

Ion Ratio Lower Upper

104 100

78 50.3 40.2 60.4

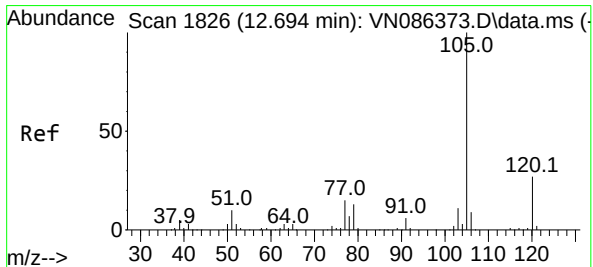
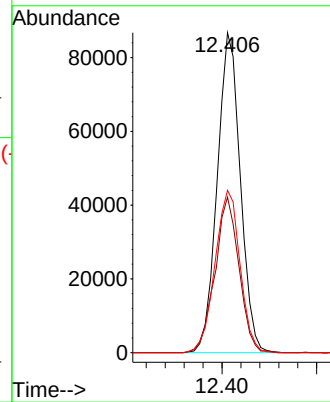
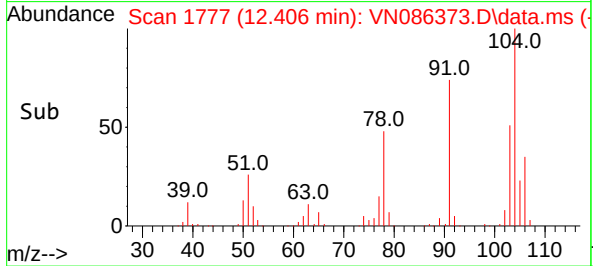
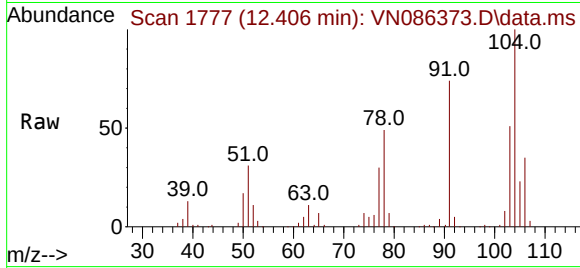
103 54.8 43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#70

Isopropylbenzene

Concen: 19.283 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086373.D

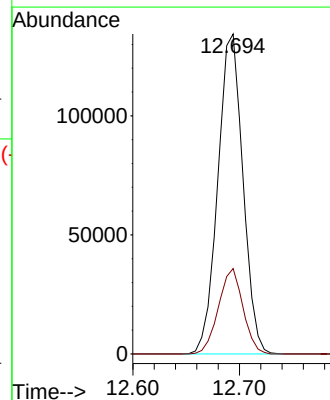
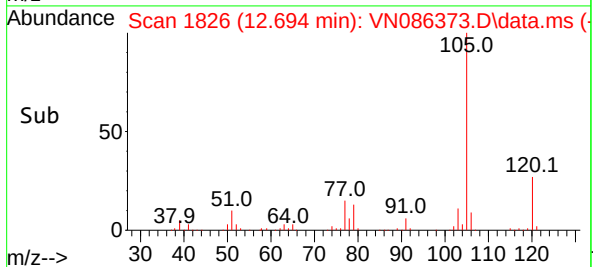
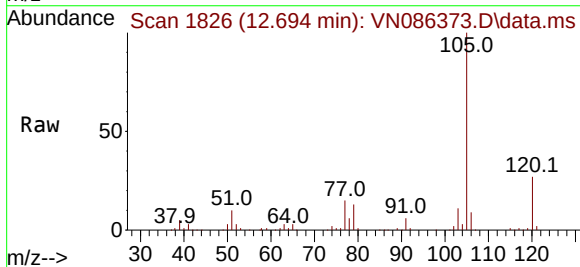
Acq: 23 Apr 2025 09:45

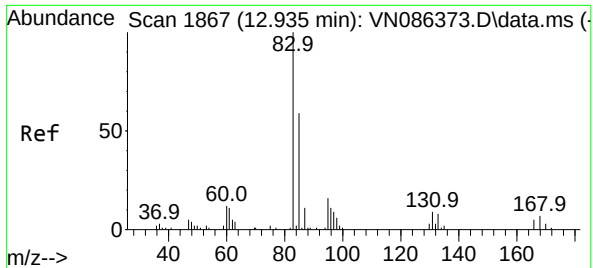
Tgt Ion:105 Resp: 219637

Ion Ratio Lower Upper

105 100

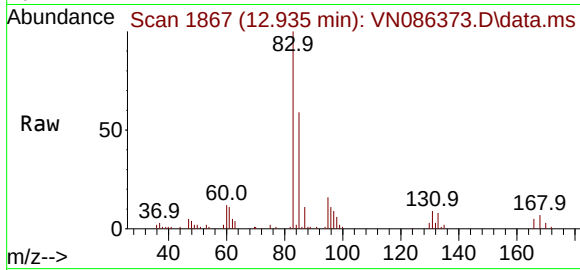
120 26.0 18.2 33.8





#71
1,1,2,2-Tetrachloroethane
Concen: 20.511 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

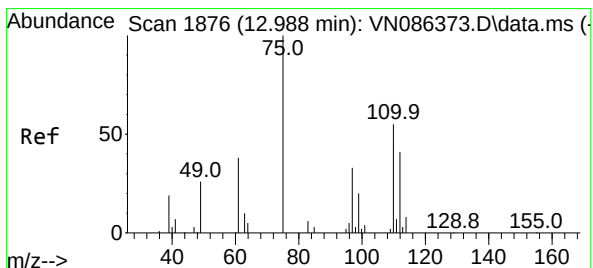
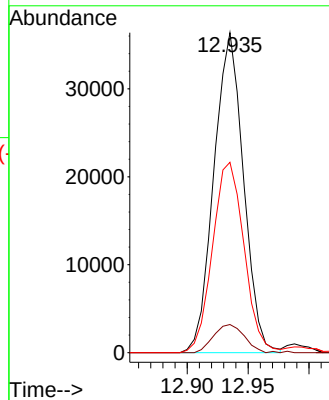
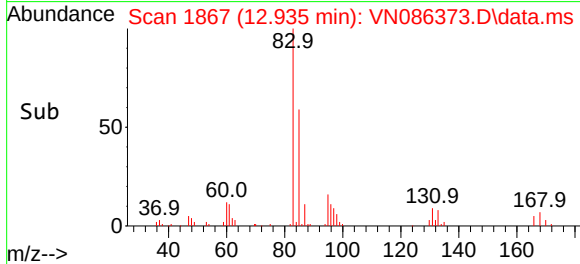
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 61510
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.7
85 63.4 31.7 95.1

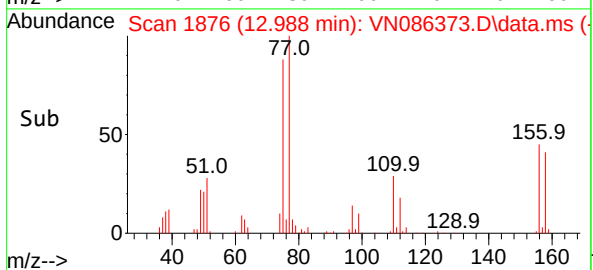
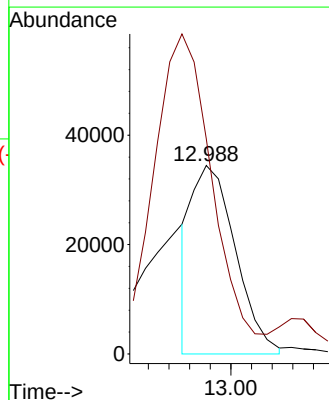
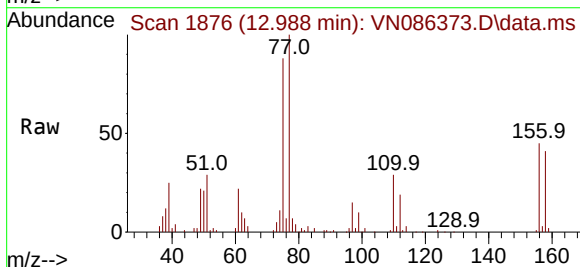
Manual Integrations
APPROVED

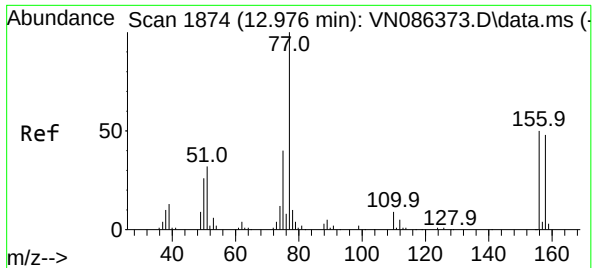
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 19.411 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

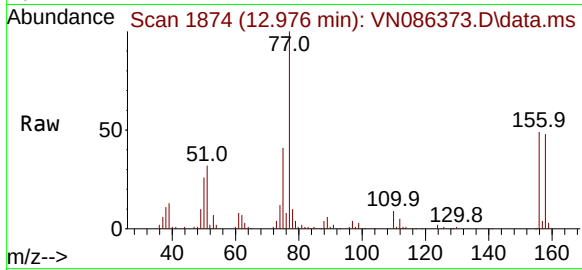
Tgt Ion: 75 Resp: 50447
Ion Ratio Lower Upper
75 100
77 232.2 0.0 464.4





#73
Bromobenzene
Concen: 19.307 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

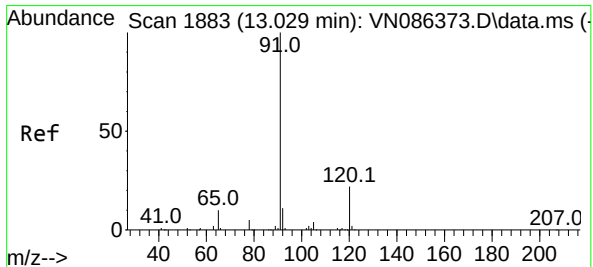
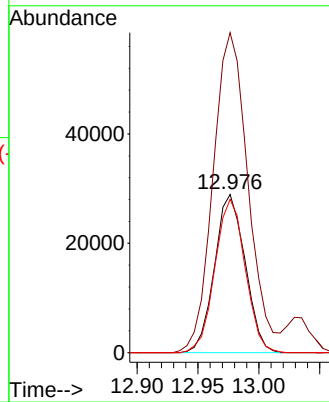
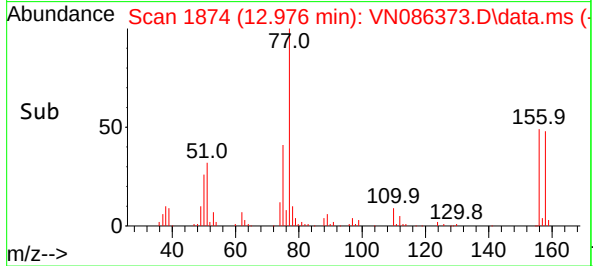
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



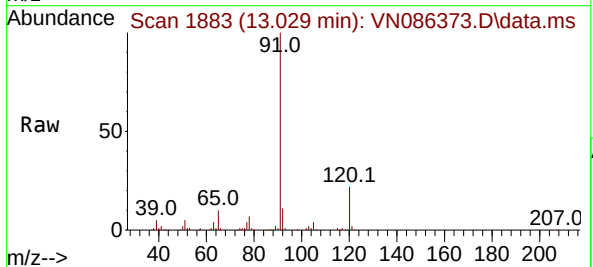
Tgt Ion:156 Resp: 50559
Ion Ratio Lower Upper
156 100
77 231.7 0.0 463.4
158 95.9 0.0 191.8

Manual Integrations
APPROVED

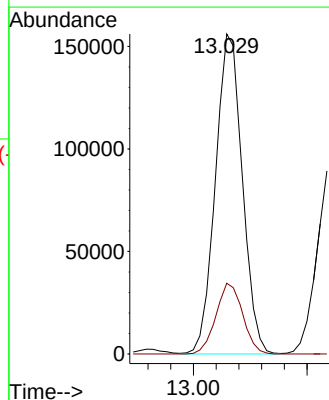
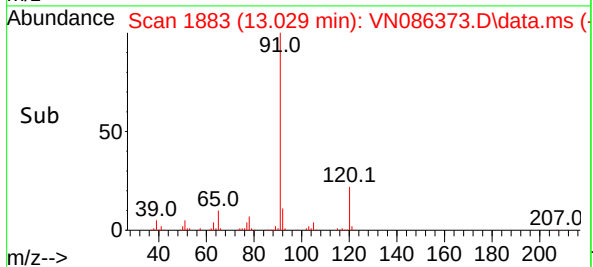
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

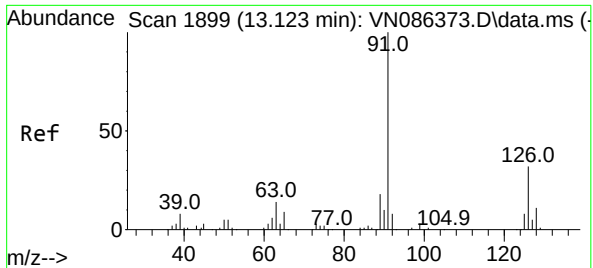


#74
n-propylbenzene
Concen: 18.969 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45



Tgt Ion: 91 Resp: 256755
Ion Ratio Lower Upper
91 100
120 21.9 0.0 43.8





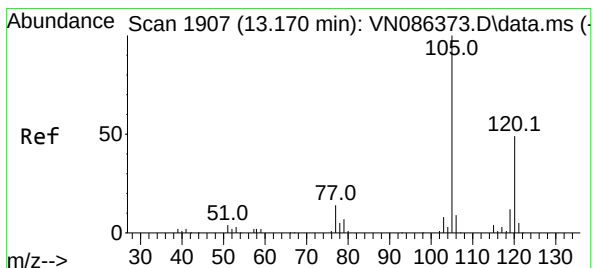
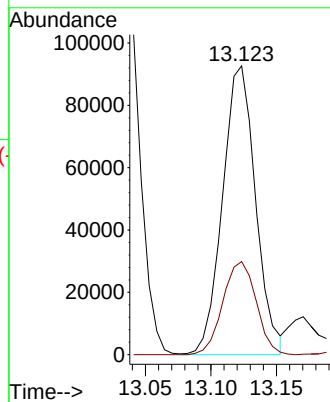
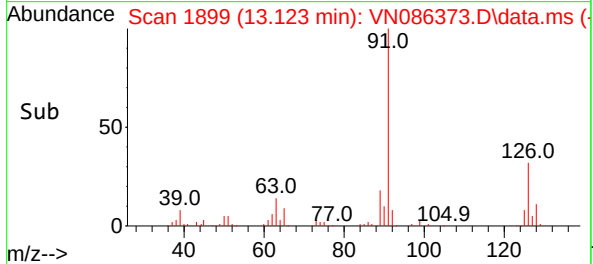
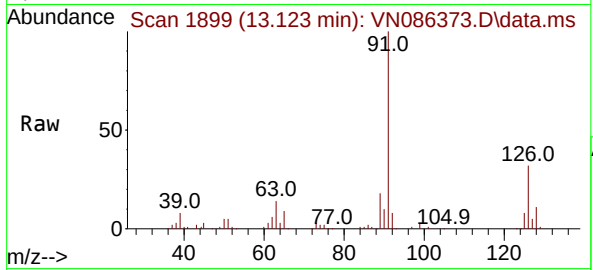
#75
2-Chlorotoluene
Concen: 19.217 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 162370
Ion Ratio Lower Upper
91 100
126 32.5 0.0 65.0

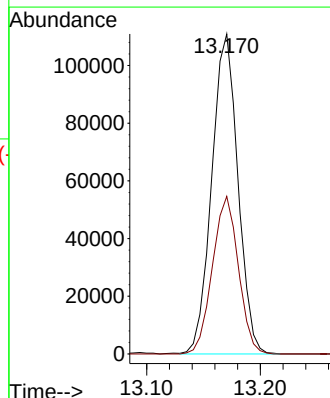
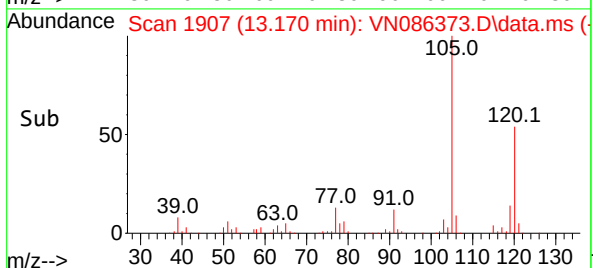
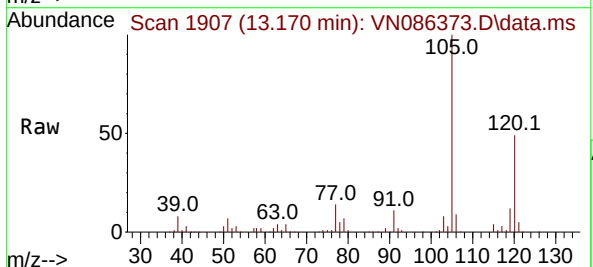
Manual Integrations
APPROVED

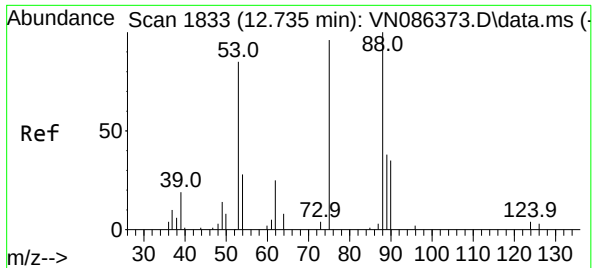
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 18.987 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

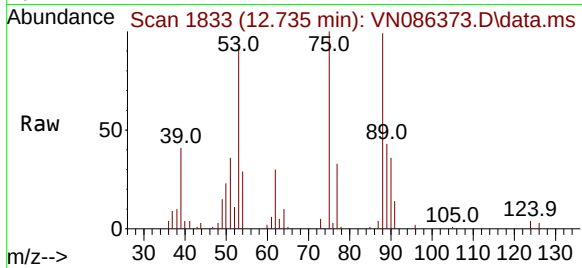
Tgt Ion:105 Resp: 177449
Ion Ratio Lower Upper
105 100
120 48.8 0.0 97.6





#77
t-1,4-Dichloro-2-butene
Concen: 18.653 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

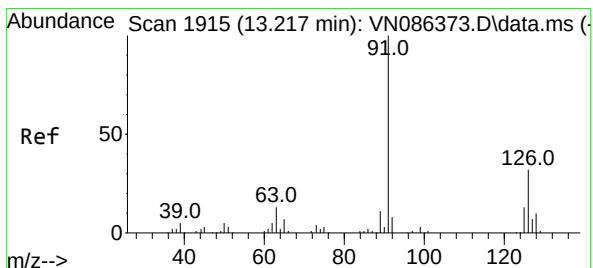
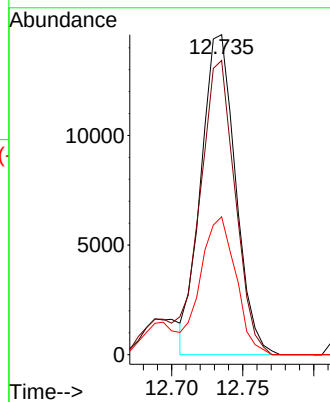
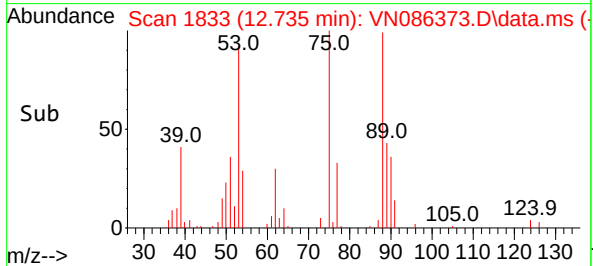
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 75 Resp: 2475
Ion Ratio Lower Upper
75 100
53 92.0 46.0 138.0
89 43.1 21.6 64.6

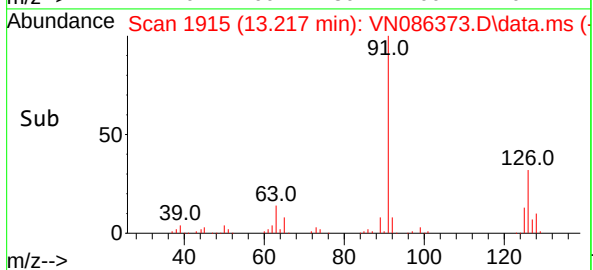
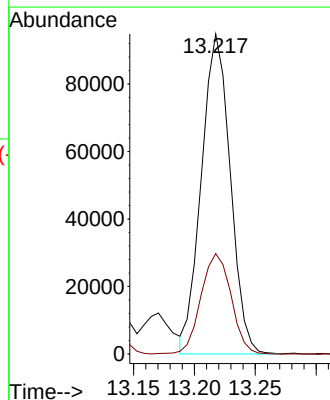
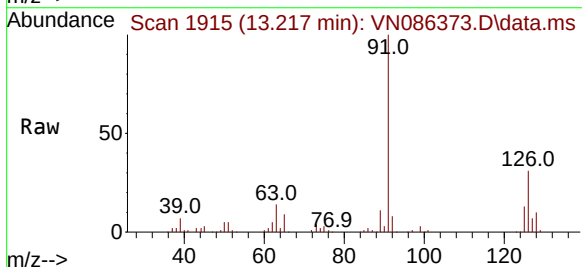
Manual Integrations
APPROVED

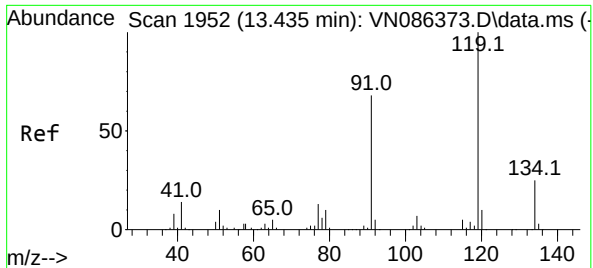
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#78
4-Chlorotoluene
Concen: 18.576 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion: 91 Resp: 156935
Ion Ratio Lower Upper
91 100
126 32.7 0.0 65.4





#79

tert-butylbenzene

Concen: 19.073 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:119 Resp: 15266

Ion Ratio Lower Upper

119 100

91 68.7 0.0 137.4

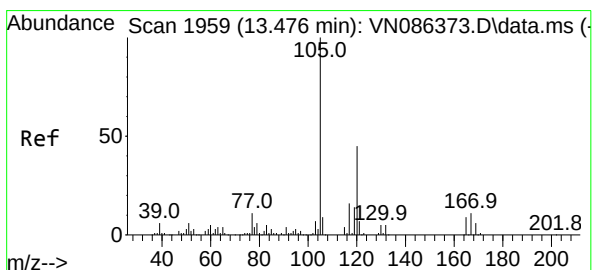
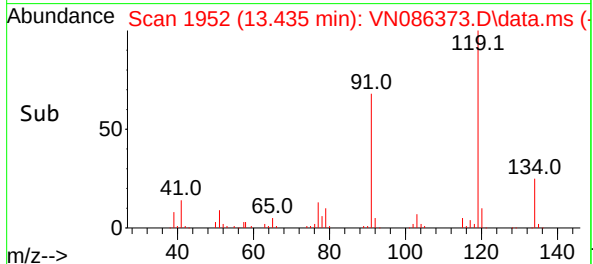
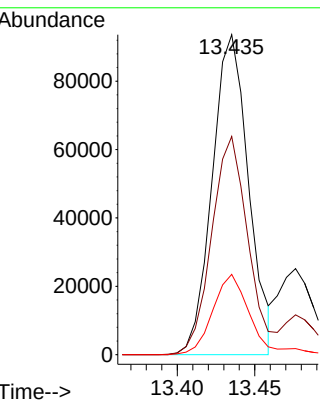
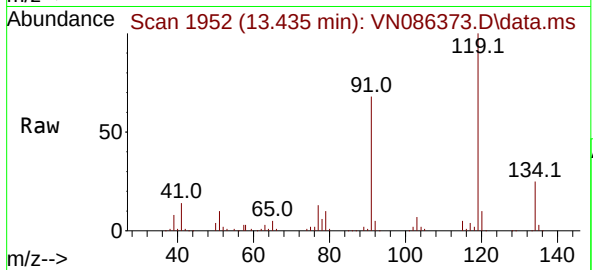
134 24.6 0.0 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#80

1,2,4-Trimethylbenzene

Concen: 18.949 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086373.D

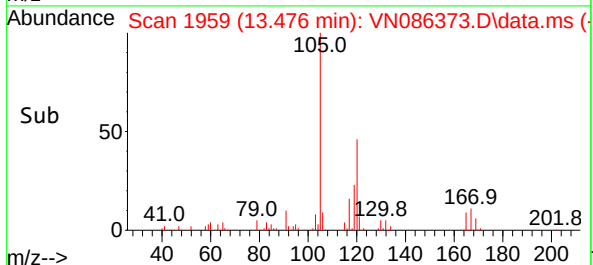
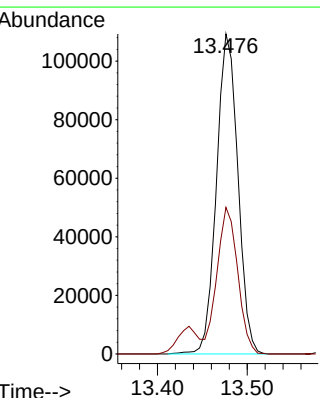
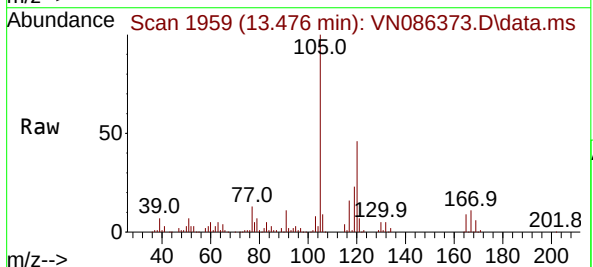
Acq: 23 Apr 2025 09:45

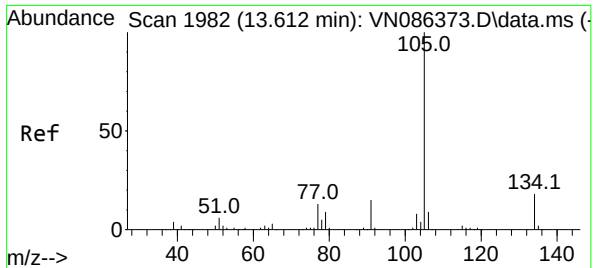
Tgt Ion:105 Resp: 180860

Ion Ratio Lower Upper

105 100

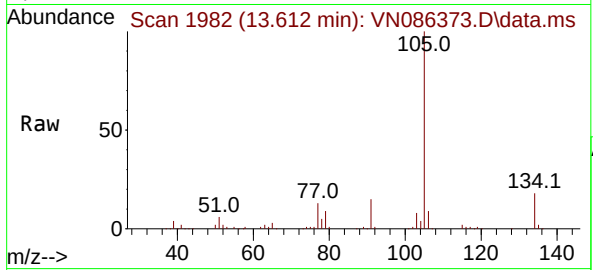
120 43.8 0.0 87.6





#81
 sec-Butylbenzene
 Concen: 18.686 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086373.D
 Acq: 23 Apr 2025 09:45

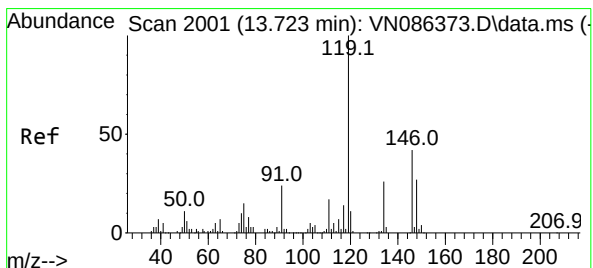
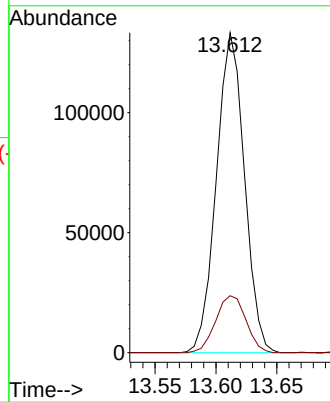
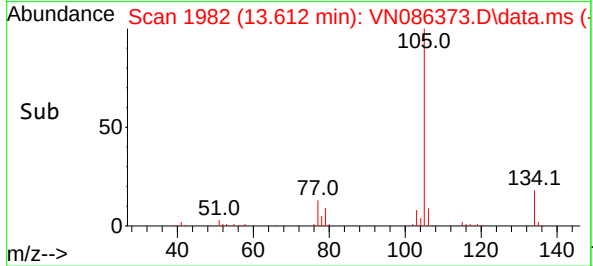
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020



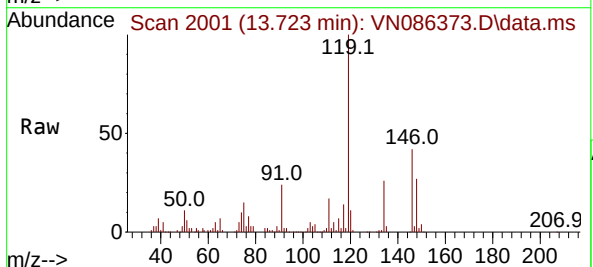
Tgt Ion:105 Resp: 21349
 Ion Ratio Lower Upper
 105 100
 134 19.2 0.0 38.4

Manual Integrations
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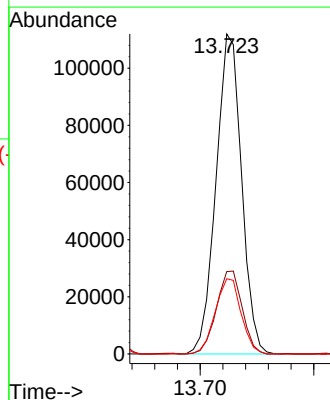
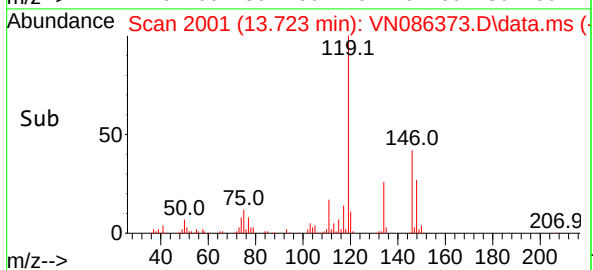
Reviewed By :John Carlone 04/24/2025
 Supervised By :Mahesh Dadoda 04/25/2025

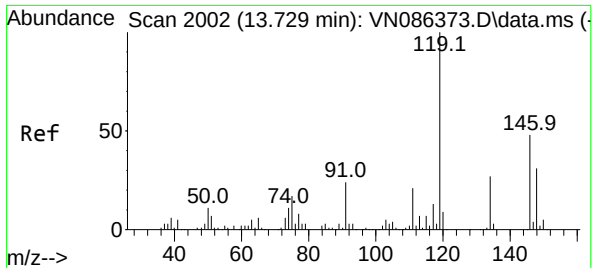


#82
 p-Isopropyltoluene
 Concen: 18.304 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN086373.D
 Acq: 23 Apr 2025 09:45



Tgt Ion:119 Resp: 175002
 Ion Ratio Lower Upper
 119 100
 134 26.1 0.0 52.2
 91 23.8 0.0 47.6





#83

1,3-Dichlorobenzene

Concen: 18.311 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 9064

Ion Ratio Lower Upper

146 100

111 41.4 20.7 62.1

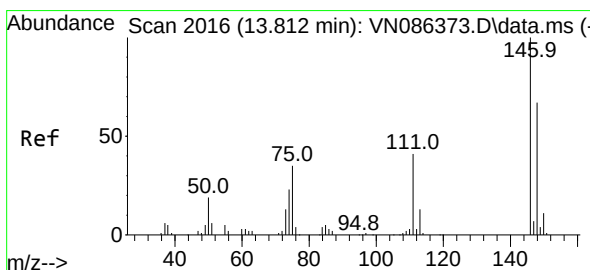
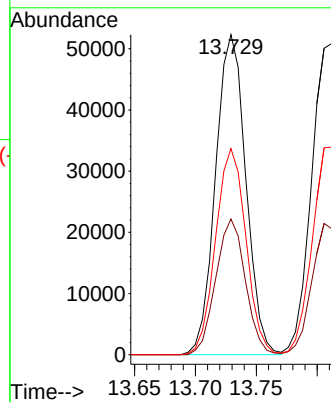
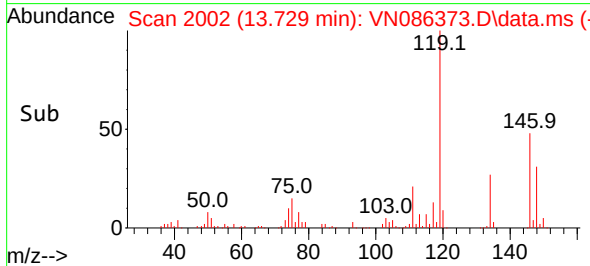
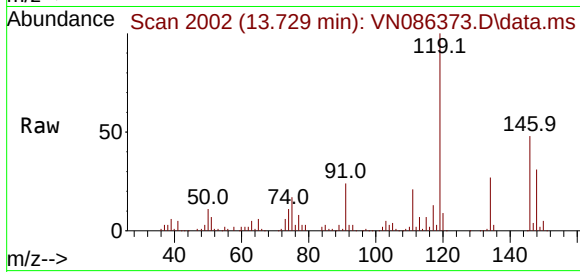
148 64.5 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#84

1,4-Dichlorobenzene

Concen: 18.342 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

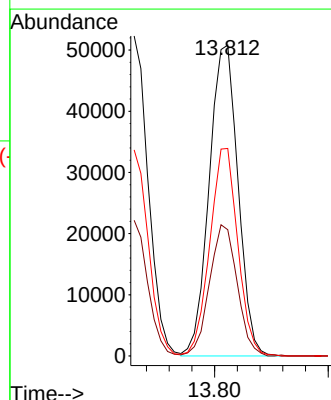
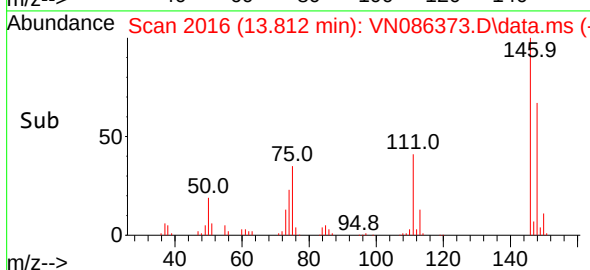
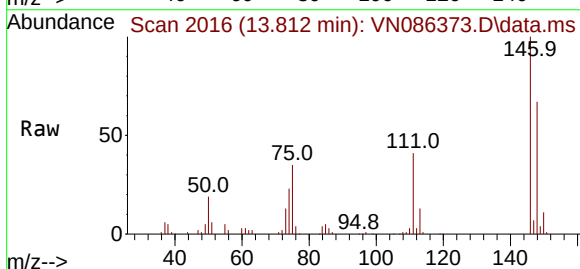
Tgt Ion:146 Resp: 89707

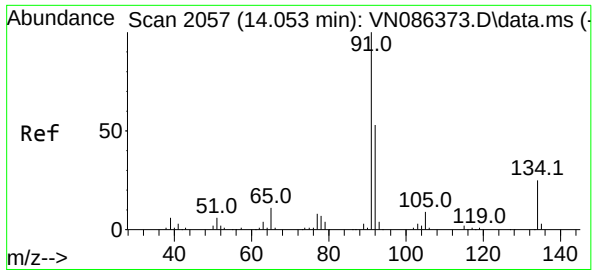
Ion Ratio Lower Upper

146 100

111 40.5 20.3 60.8

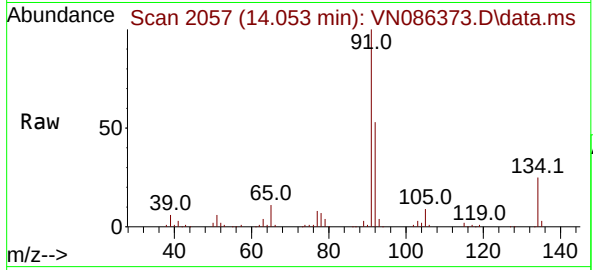
148 64.8 32.4 97.2





#85
n-Butylbenzene
Concen: 17.991 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

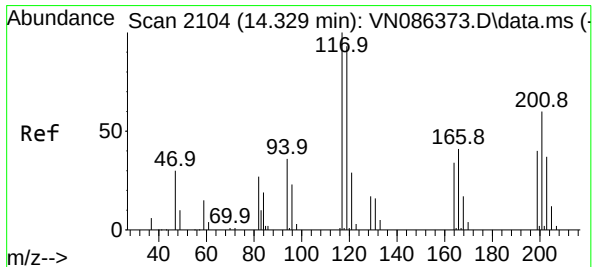
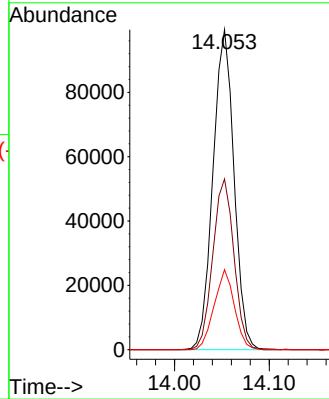
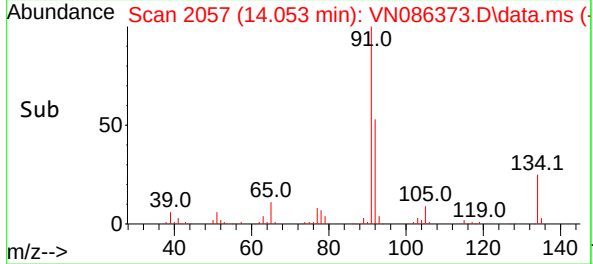
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 91 Resp: 153480
Ion Ratio Lower Upper
91 100
92 53.6 0.0 107.2
134 24.1 0.0 48.2

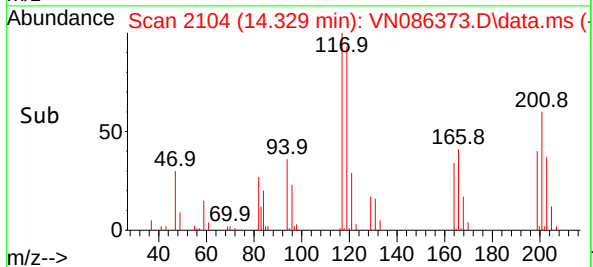
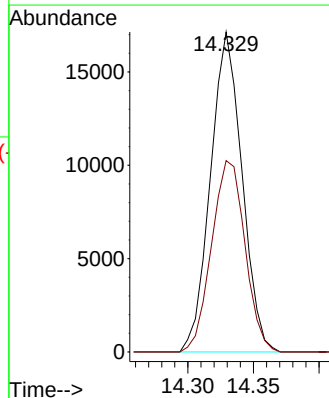
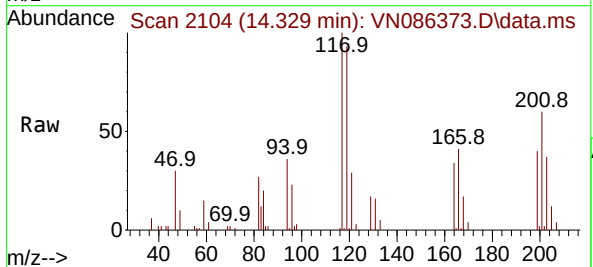
Manual Integrations
APPROVED

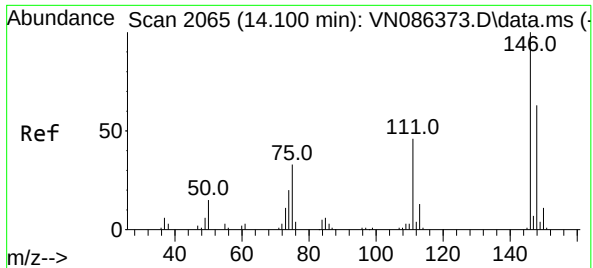
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#86
Hexachloroethane
Concen: 18.313 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:117 Resp: 28629
Ion Ratio Lower Upper
117 100
201 63.4 31.7 95.1





#87

1,2-Dichlorobenzene

Concen: 18.450 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 8689

Ion Ratio Lower Upper

146 100

111 44.2 22.1 66.3

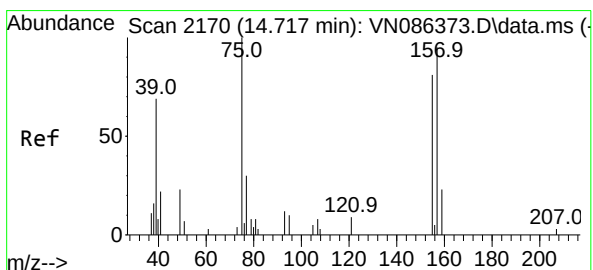
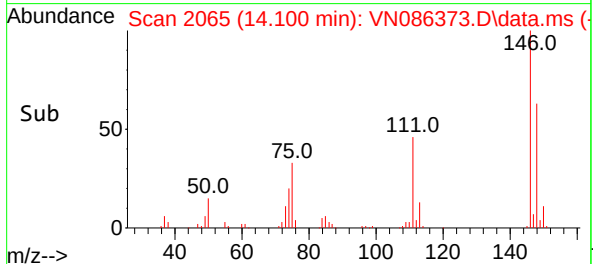
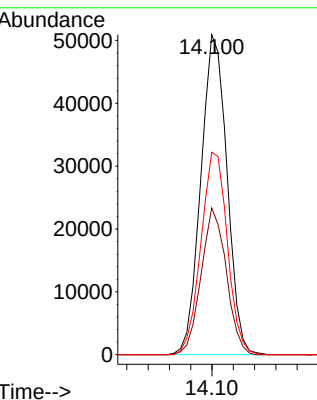
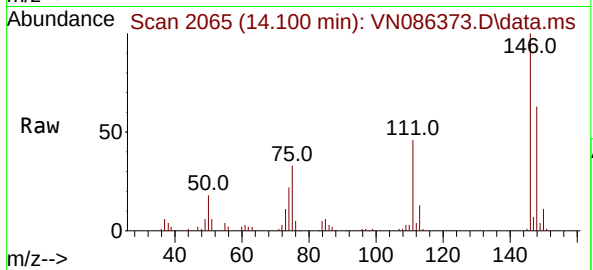
148 64.0 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.182 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086373.D

Acq: 23 Apr 2025 09:45

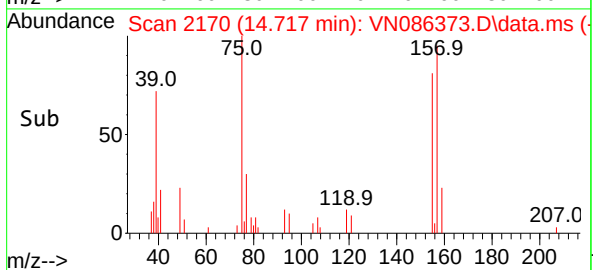
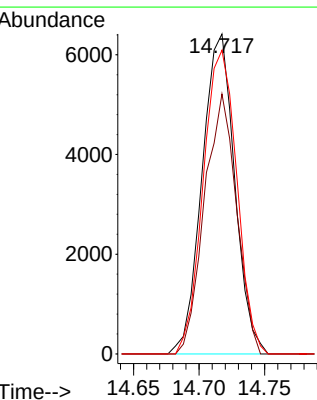
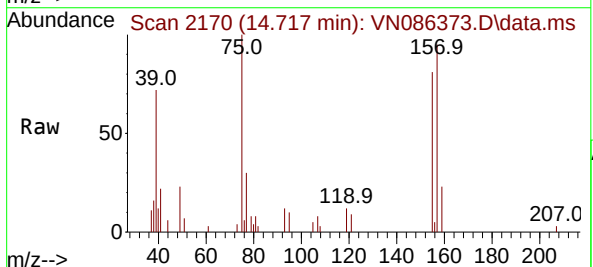
Tgt Ion: 75 Resp: 11084

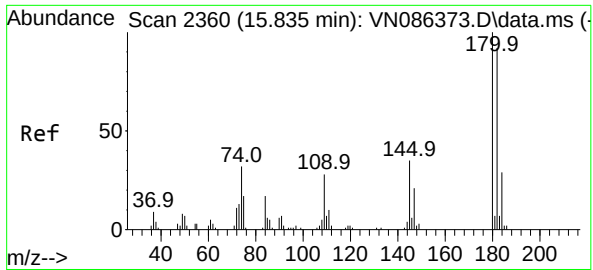
Ion Ratio Lower Upper

75 100

155 80.0 64.0 96.0

157 97.8 78.2 117.4





#89

1,2,4-Trichlorobenzene

Concen: 17.609 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086373.D

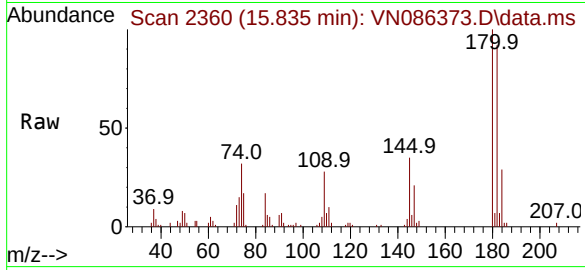
Acq: 23 Apr 2025 09:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020



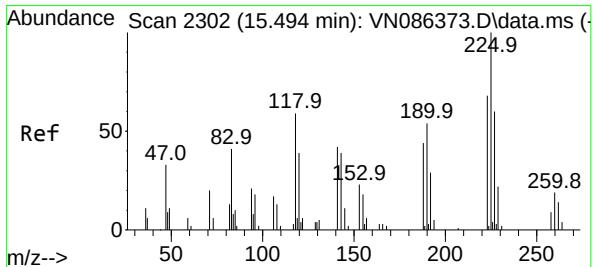
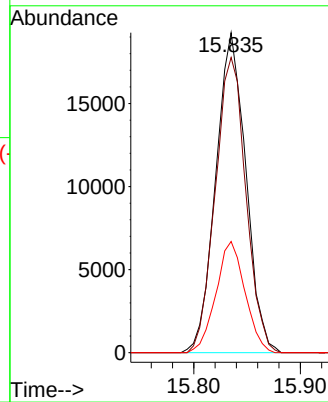
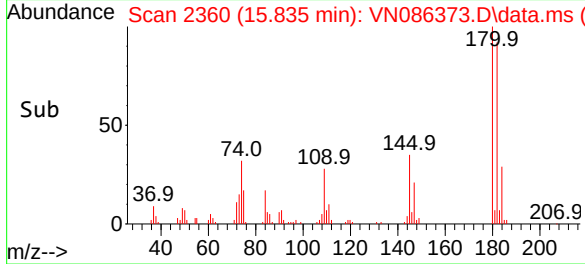
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	74.8	112.2
145	33.6	26.9	40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

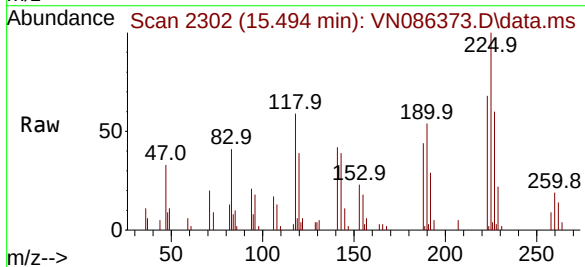
Concen: 17.847 ug/l

RT: 15.494 min Scan# 2302

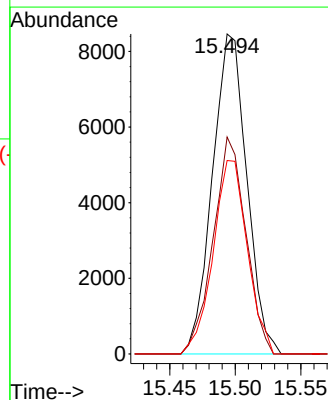
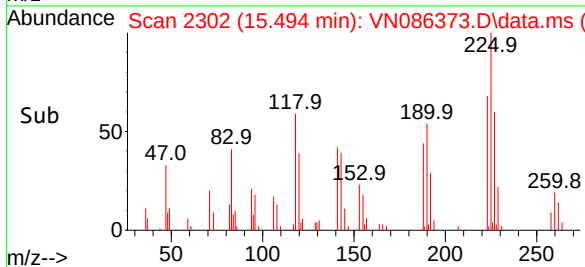
Delta R.T. 0.000 min

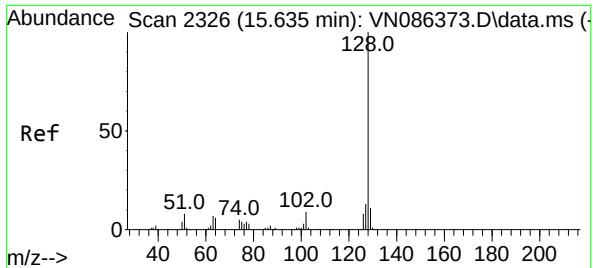
Lab File: VN086373.D

Acq: 23 Apr 2025 09:45



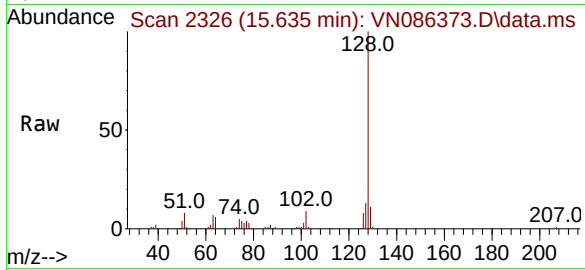
Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.4	0.0	128.8
227	60.1	0.0	120.2





#91
Naphthalene
Concen: 17.630 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

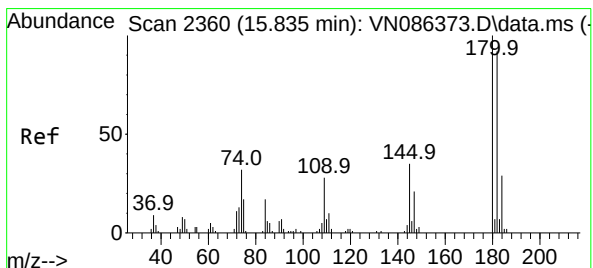
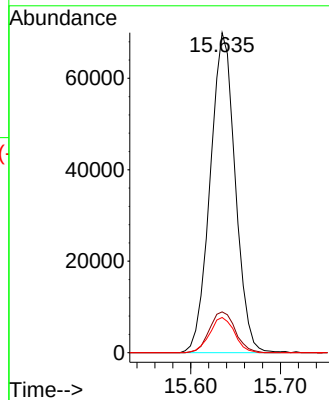
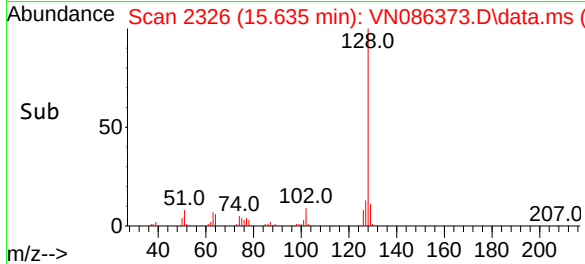
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 13549
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.9 8.7 13.1

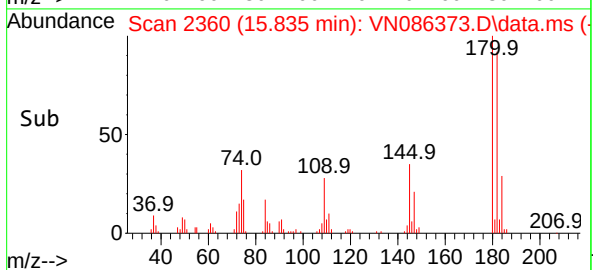
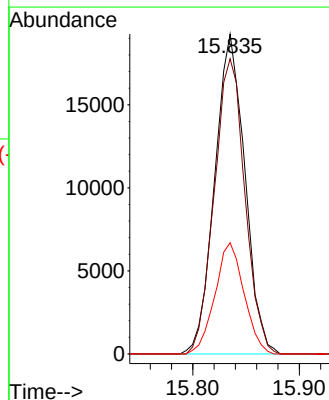
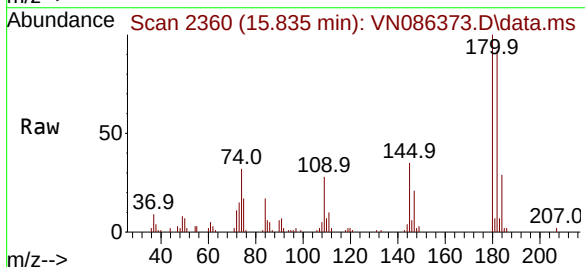
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 17.609 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086373.D
Acq: 23 Apr 2025 09:45

Tgt Ion:180 Resp: 37802
Ion Ratio Lower Upper
180 100
182 93.5 0.0 187.0
145 33.6 0.0 67.2





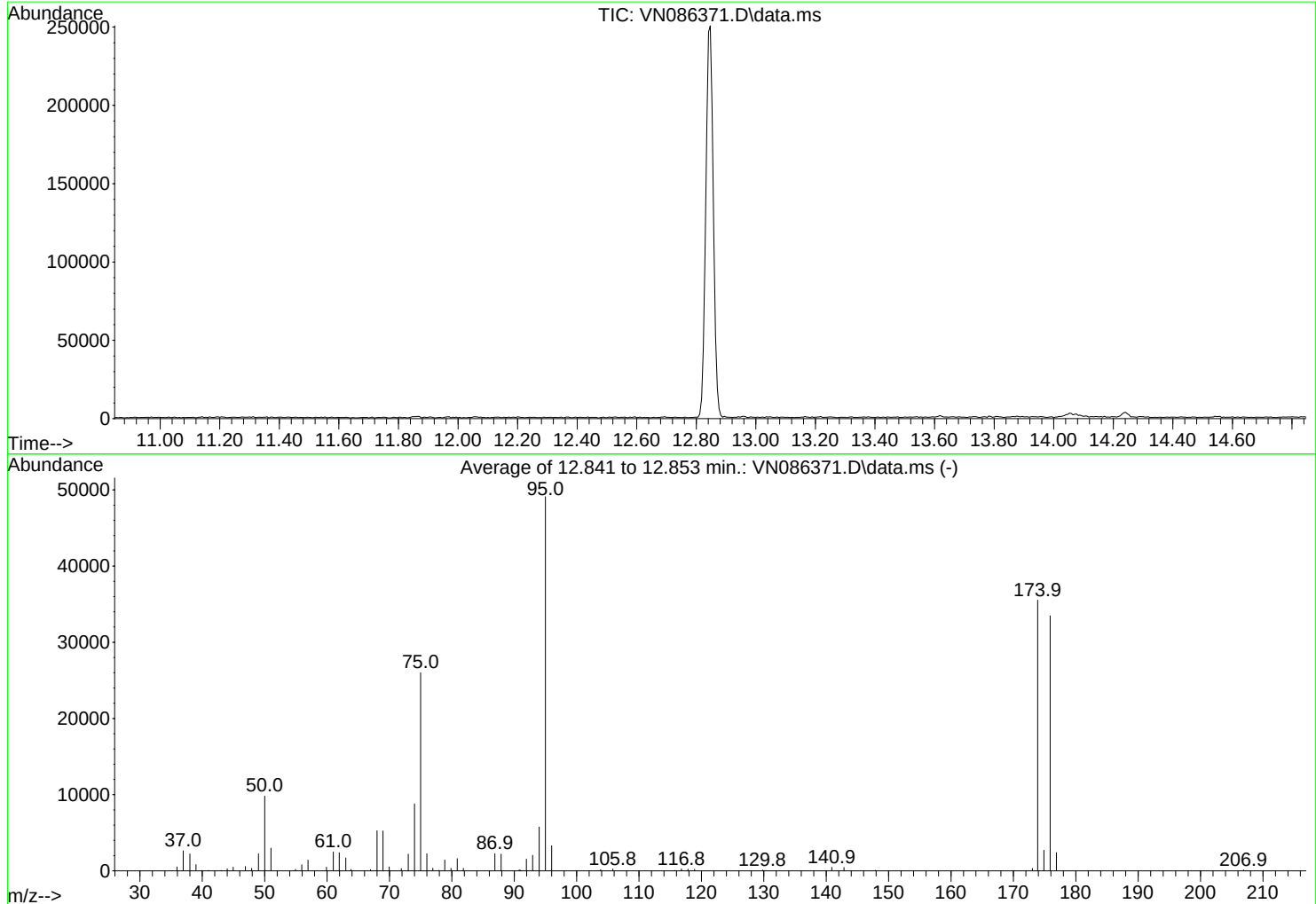
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086371.D
Acq On : 23 Apr 2025 08:43
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Thu Apr 24 04:42:24 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	9823	PASS
75	95	30	60	53.0	26013	PASS
95	95	100	100	100.0	49115	PASS
96	95	5	9	6.7	3299	PASS
173	174	0.00	2	0.9	324	PASS
174	95	50	100	72.3	35525	PASS
175	174	5	9	7.6	2695	PASS
176	174	95	101	94.3	33483	FAIL*
177	176	5	9	7.2	2405	PASS

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN0423WBL01			SDG No.:	Q1833
Lab Sample ID:	VN0423WBL01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-PP
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086384.D	1		04/23/25 16:00	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	4.60	U	4.60	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN0423WBL01			SDG No.:	Q1833
Lab Sample ID:	VN0423WBL01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-PP
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086384.D	1		04/23/25 16:00	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.5		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	30.6		91 - 112	102%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.8		63 - 112	93%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27500	7.806			
540-36-3	1,4-Difluorobenzene	164000	9.1			
3114-55-4	Chlorobenzene-d5	144000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086384.D
Acq On : 23 Apr 2025 16:00
Operator : JC\MD
Sample : VN0423WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

Quant Time: Apr 24 05:01:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 04:42:24 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	27527	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	164046	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143908	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80895	30.481	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.600%
60) 4-Bromofluorobenzene	12.847	95	78601	27.790	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.633%
63) Toluene-d8	10.565	98	242215	30.594	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.967%

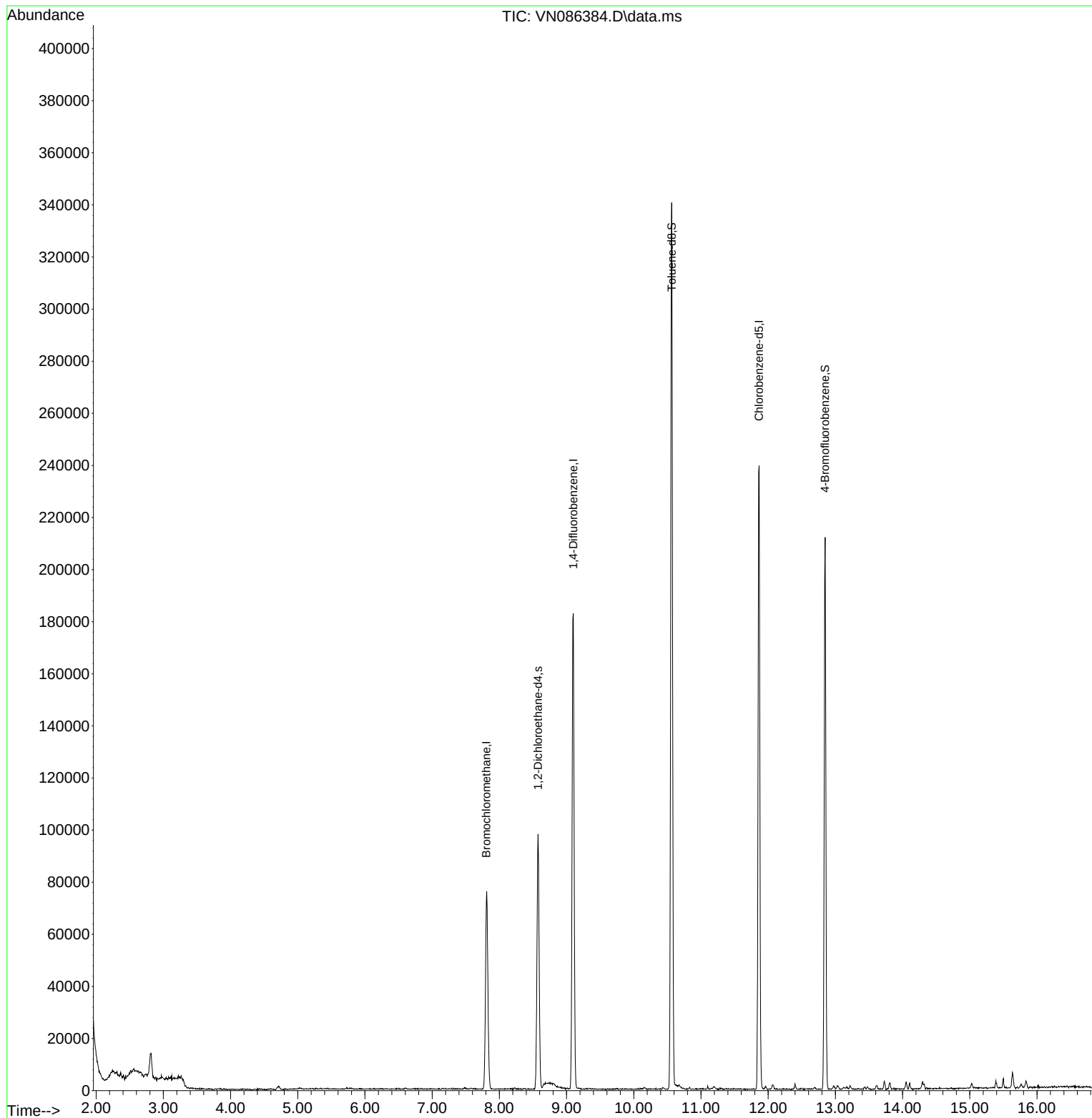
Target Compounds	Qvalue

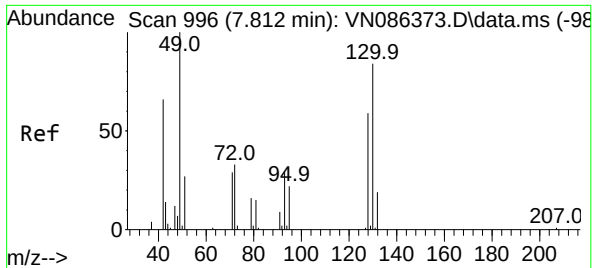
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086384.D
Acq On : 23 Apr 2025 16:00
Operator : JC\MD
Sample : VN0423WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

Quant Time: Apr 24 05:01:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 04:42:24 2025
Response via : Initial Calibration

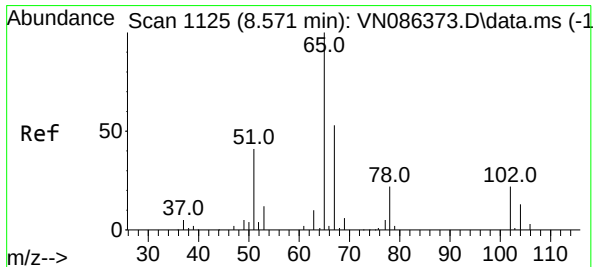
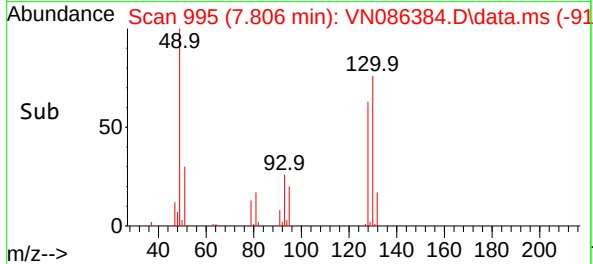
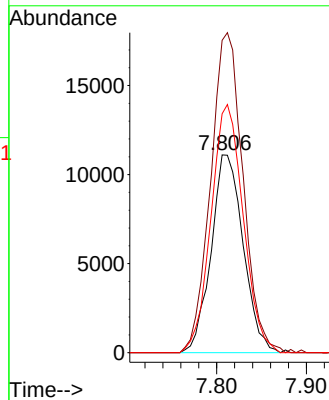
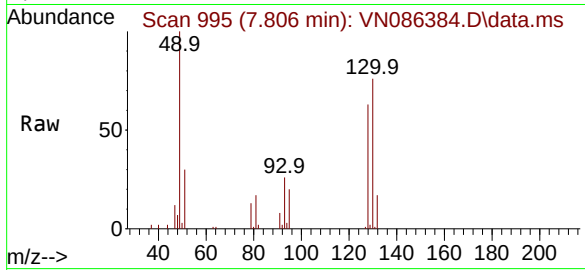




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

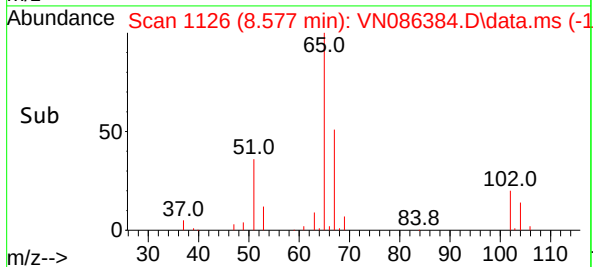
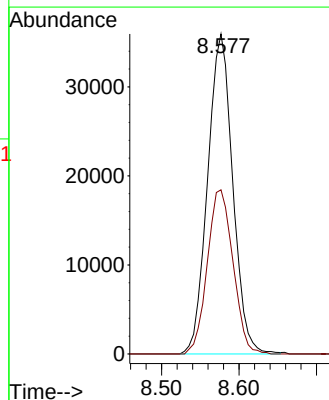
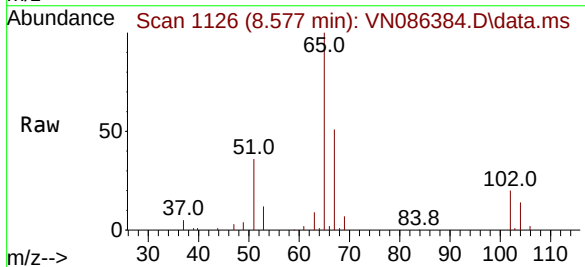
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

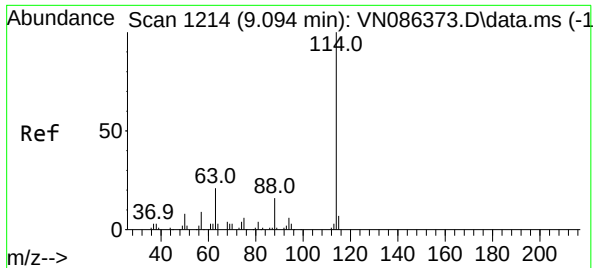
Tgt Ion:128 Resp: 27527
Ion Ratio Lower Upper
128 100
49 163.6 0.0 433.8
130 126.3 0.0 325.0



#27
1,2-Dichloroethane-d4
Concen: 30.481 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 65 Resp: 80895
Ion Ratio Lower Upper
65 100
67 52.5 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086384.D

Acq: 23 Apr 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBL01

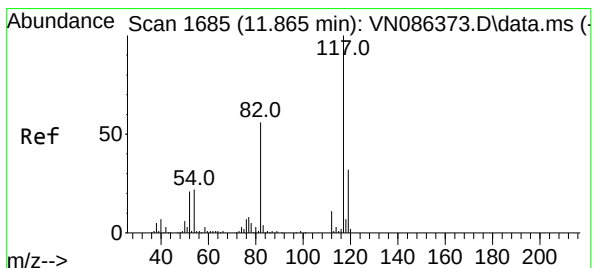
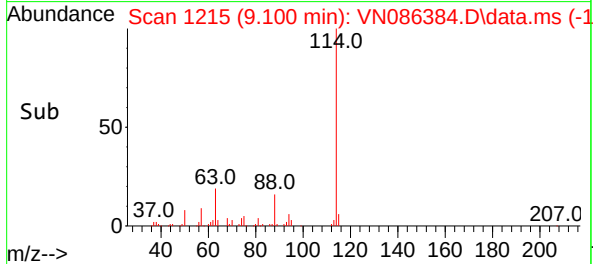
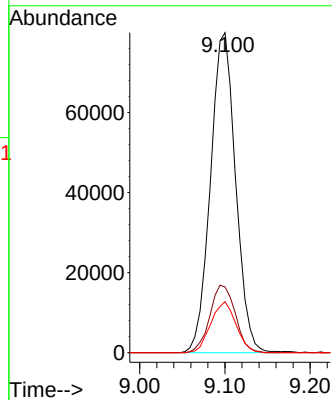
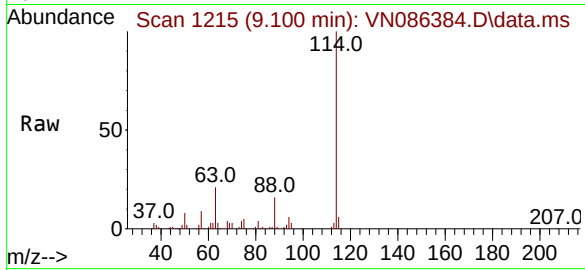
Tgt Ion:114 Resp: 164046

Ion Ratio Lower Upper

114 100

63 21.3 16.7 25.1

88 16.0 12.6 19.0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN086384.D

Acq: 23 Apr 2025 16:00

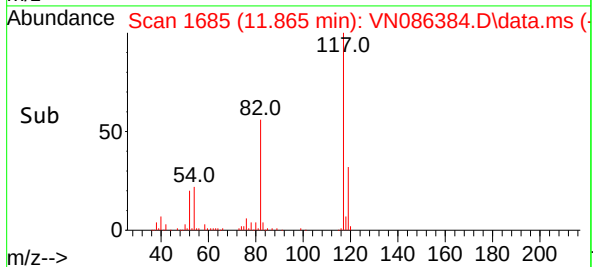
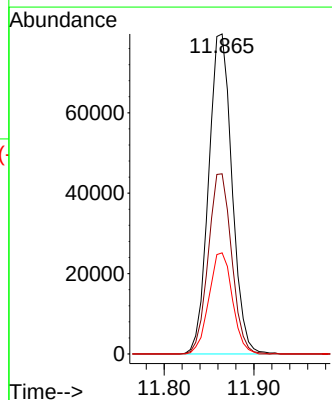
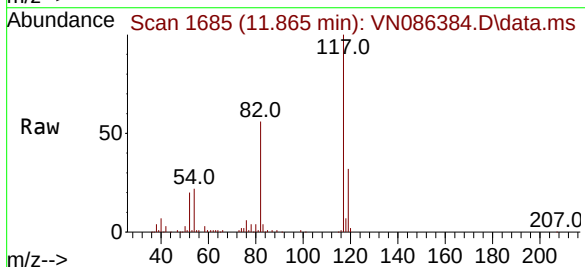
Tgt Ion:117 Resp: 143908

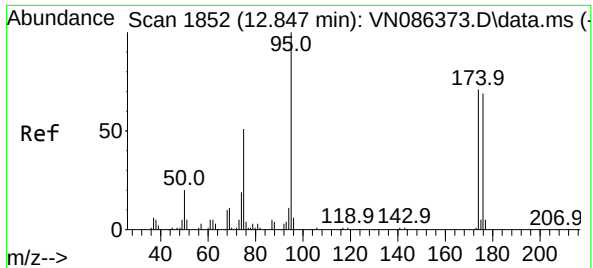
Ion Ratio Lower Upper

117 100

82 56.4 45.5 68.3

119 31.9 25.9 38.9

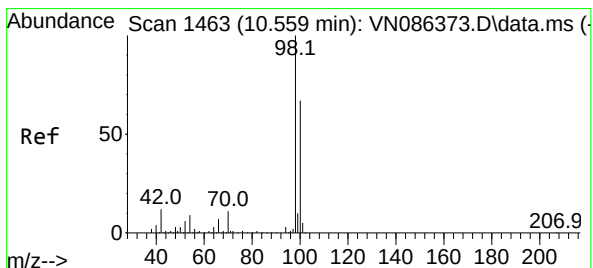
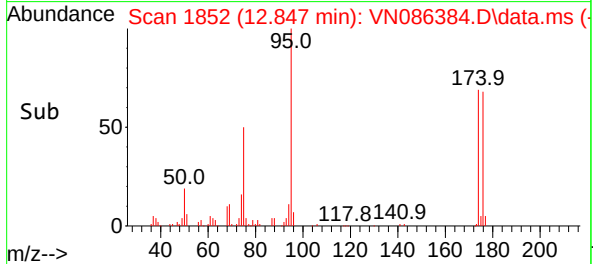
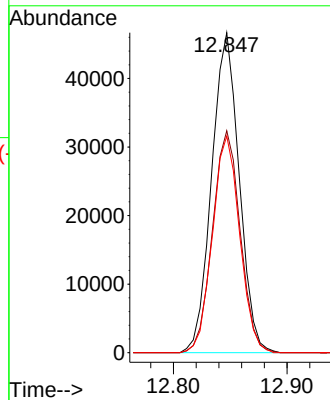
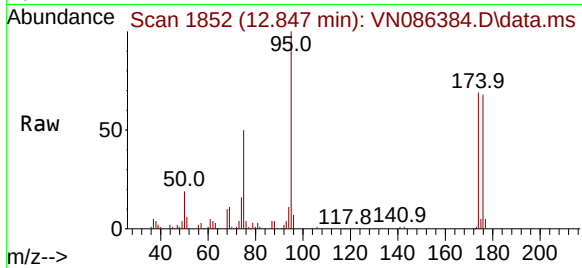




#60
4-Bromofluorobenzene
Concen: 27.790 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

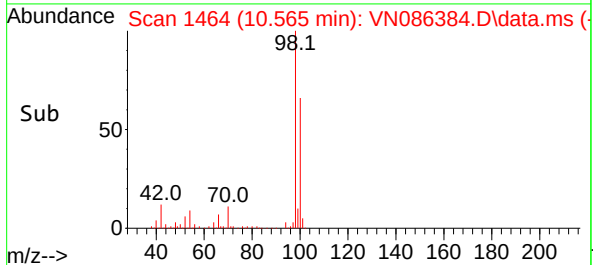
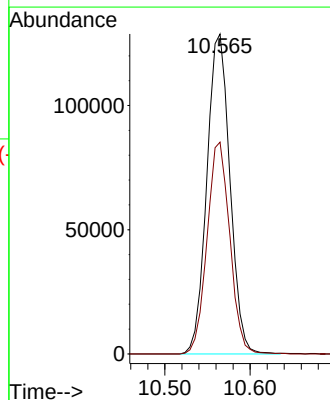
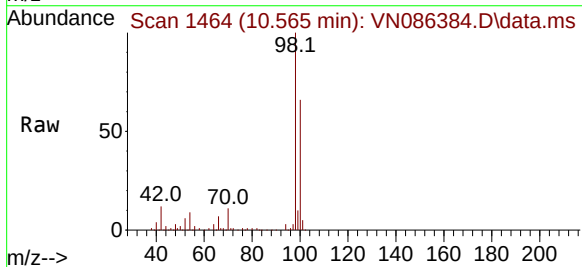
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBL01

Tgt Ion: 95	Resp: 78601
Ion Ratio	Lower Upper
95 100	
174 69.7	56.6 84.8
176 67.0	53.3 79.9



#63
Toluene-d8
Concen: 30.594 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086384.D
Acq: 23 Apr 2025 16:00

Tgt Ion: 98	Resp: 242215
Ion Ratio	Lower Upper
98 100	
100 65.3	53.1 79.7



Report of Analysis

Client:	Ardmore Chemical	Date Collected:	
Project:	PVSC Monthly 2025	Date Received:	
Client Sample ID:	VN0423WBS01	SDG No.:	Q1833
Lab Sample ID:	VN0423WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-PP
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086382.D	1		04/23/25 15:02	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	20.7		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	20.7		0.83	5.00	ug/L
74-83-9	Bromomethane	21.4		0.80	5.00	ug/L
75-00-3	Chloroethane	20.9		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	21.0		0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.8		0.76	5.00	ug/L
107-02-8	Acrolein	76.0		6.60	25.0	ug/L
107-13-1	Acrylonitrile	110		2.80	25.0	ug/L
75-09-2	Methylene Chloride	20.8		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.1		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.7		0.68	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.9		0.74	5.00	ug/L
67-66-3	Chloroform	20.6		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.1		0.63	5.00	ug/L
71-43-2	Benzene	20.2		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.50	5.00	ug/L
79-01-6	Trichloroethene	19.2		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.46	5.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.64	5.00	ug/L
108-88-3	Toluene	20.0		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.6		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.9		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.3		0.45	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	94.3		4.60	25.0	ug/L
124-48-1	Dibromochloromethane	19.6		0.66	5.00	ug/L
127-18-4	Tetrachloroethene	19.4		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.0		0.47	5.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	39.2		1.30	10.0	ug/L
95-47-6	o-Xylene	20.0		0.67	5.00	ug/L

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN0423WBS01			SDG No.:	Q1833
Lab Sample ID:	VN0423WBS01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-PP
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086382.D	1		04/23/25 15:02	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	19.3		0.94	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.44	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.9		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	30.0		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.7		63 - 112	96%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28000	7.812			
540-36-3	1,4-Difluorobenzene	174000	9.094			
3114-55-4	Chlorobenzene-d5	159000	11.859			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086382.D
 Acq On : 23 Apr 2025 15:02
 Operator : JC\MD
 Sample : VN0423WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28009	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	174005	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	158596	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83325	30.856	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.867%			
60) 4-Bromofluorobenzene	12.847	95	89590	28.742	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.800%			
63) Toluene-d8	10.565	98	261745	29.999	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.000%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	41387	21.403	ug/l	94
3) Chloromethane	2.359	50	56736	20.655	ug/l	100
4) Vinyl Chloride	2.518	62	54489	20.712	ug/l	95
5) Bromomethane	2.953	94	29461	21.449	ug/l	100
6) Chloroethane	3.118	64	36681	20.914	ug/l	98
7) Trichlorofluoromethane	3.501	101	65145	20.978	ug/l	98
8) Diethyl Ether	3.953	74	27434	20.929	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41239	21.602	ug/l	74
10) 1,1-Dichloroethene	4.342	96	40590	20.773	ug/l	98
11) Methyl Iodide	4.583	142	48193	21.079	ug/l	94
12) Methyl Acetate	5.018	43	61511	22.210	ug/l	98
13) Acrolein	4.183	56	11153m	76.023	ug/l	
14) Acrylonitrile	5.712	53	110928	107.615	ug/l	100
15) Acetone	4.424	58	32070	112.908	ug/l	99
16) Carbon Disulfide	4.712	76	106838	20.750	ug/l	98
17) Allyl chloride	5.018	41	64974	20.796	ug/l	98
18) Methylene Chloride	5.271	84	46322	20.817	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	41757	20.050	ug/l	98
20) Diisopropyl ether	6.665	45	153673	20.686	ug/l	97
21) 1,1-Dichloroethane	6.565	63	83993	20.655	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	54611	20.970	ug/l	94
23) tert-Butyl Alcohol	5.512	59	43362	108.593	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	152593	21.137	ug/l	100
25) Chloroform	7.959	83	84814	20.608	ug/l	99
26) Cyclohexane	8.253	56	75458	21.016	ug/l #	99
29) 1,1-Dichloropropene	8.365	75	60632	19.765	ug/l	99
30) 2-Butanone	7.477	43	156415	105.054	ug/l	99
31) 2,2-Dichloropropane	7.483	77	77589	19.676	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	73550	20.065	ug/l	99
33) Carbon Tetrachloride	8.359	117	59985	19.878	ug/l	96
34) Benzene	8.600	78	196998	20.191	ug/l	97
35) Methacrylonitrile	7.771	41	34714	20.439	ug/l	99
36) 1,2-Dichloroethane	8.665	62	63085	19.915	ug/l	100
37) Trichloroethene	9.347	130	46837	19.176	ug/l	93
38) Methylcyclohexane	9.594	83	69608	19.648	ug/l	98
39) 1,2-Dichloropropane	9.618	63	48735	20.219	ug/l	99
40) Dibromomethane	9.706	93	31793	19.724	ug/l	97
41) Bromodichloromethane	9.882	83	67627	19.825	ug/l	99
42) Vinyl Acetate	6.594	43	532279	103.201	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086382.D
 Acq On : 23 Apr 2025 15:02
 Operator : JC\MD
 Sample : VN0423WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:59:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	58347m	19.802	ug/l	
44) Isopropyl Acetate	8.683	43	115079	20.578	ug/l	99
45) 1,4-Dioxane	9.688	88	16811	385.290	ug/l	98
46) Methyl methacrylate	9.677	41	52620	20.399	ug/l	97
47) n-amyl Acetate	12.488	43	93137	19.540	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	74764	19.605	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	80090	19.915	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	45595	20.251	ug/l	99
51) Ethyl methacrylate	10.871	69	78410	19.996	ug/l	98
52) 1,3-Dichloropropane	11.159	76	79865	20.070	ug/l	100
53) Dibromochloromethane	11.359	129	49482	19.572	ug/l	97
54) 1,2-Dibromoethane	11.465	107	46094	20.135	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	173758	94.250	ug/l	99
56) Bromoform	12.576	173	31610	19.267	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	317539	103.465	ug/l	100
59) 2-Hexanone	11.188	43	234467	103.670	ug/l	99
61) Tetrachloroethene	11.100	164	46835	19.362	ug/l	95
62) Toluene	10.624	91	212008	19.971	ug/l	98
64) Chlorobenzene	11.888	112	132210	19.987	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	44063	19.922	ug/l	99
66) Ethyl Benzene	11.959	91	237165	19.848	ug/l	99
67) m/p-Xylenes	12.065	106	177837	39.224	ug/l	98
68) o-Xylene	12.394	106	88931	20.033	ug/l	97
69) Styrene	12.406	104	147440	19.595	ug/l	99
70) Isopropylbenzene	12.694	105	219743	19.830	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	61267	20.998	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	51896m	20.401	ug/l	
73) Bromobenzene	12.976	156	50295	19.742	ug/l	99
74) n-propylbenzene	13.029	91	257240	19.535	ug/l	99
75) 2-Chlorotoluene	13.123	91	163879	19.936	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	180475	19.849	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	26341	20.403	ug/l	99
78) 4-Chlorotoluene	13.218	91	159258	19.376	ug/l	100
79) tert-butylbenzene	13.435	119	153325	19.690	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	181681	19.565	ug/l	99
81) sec-Butylbenzene	13.612	105	216325	19.461	ug/l	99
82) p-Isopropyltoluene	13.723	119	179090	19.254	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	93109	19.334	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	92663	19.475	ug/l	99
85) n-Butylbenzene	14.053	91	155207	18.701	ug/l	100
86) Hexachloroethane	14.329	117	29798	19.592	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	92158	20.112	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12448	20.989	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	41215	19.734	ug/l	98
90) Hexachlorobutadiene	15.494	225	17092	20.317	ug/l	95
91) Naphthalene	15.635	128	148729	19.891	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	41215	19.734	ug/l	98

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

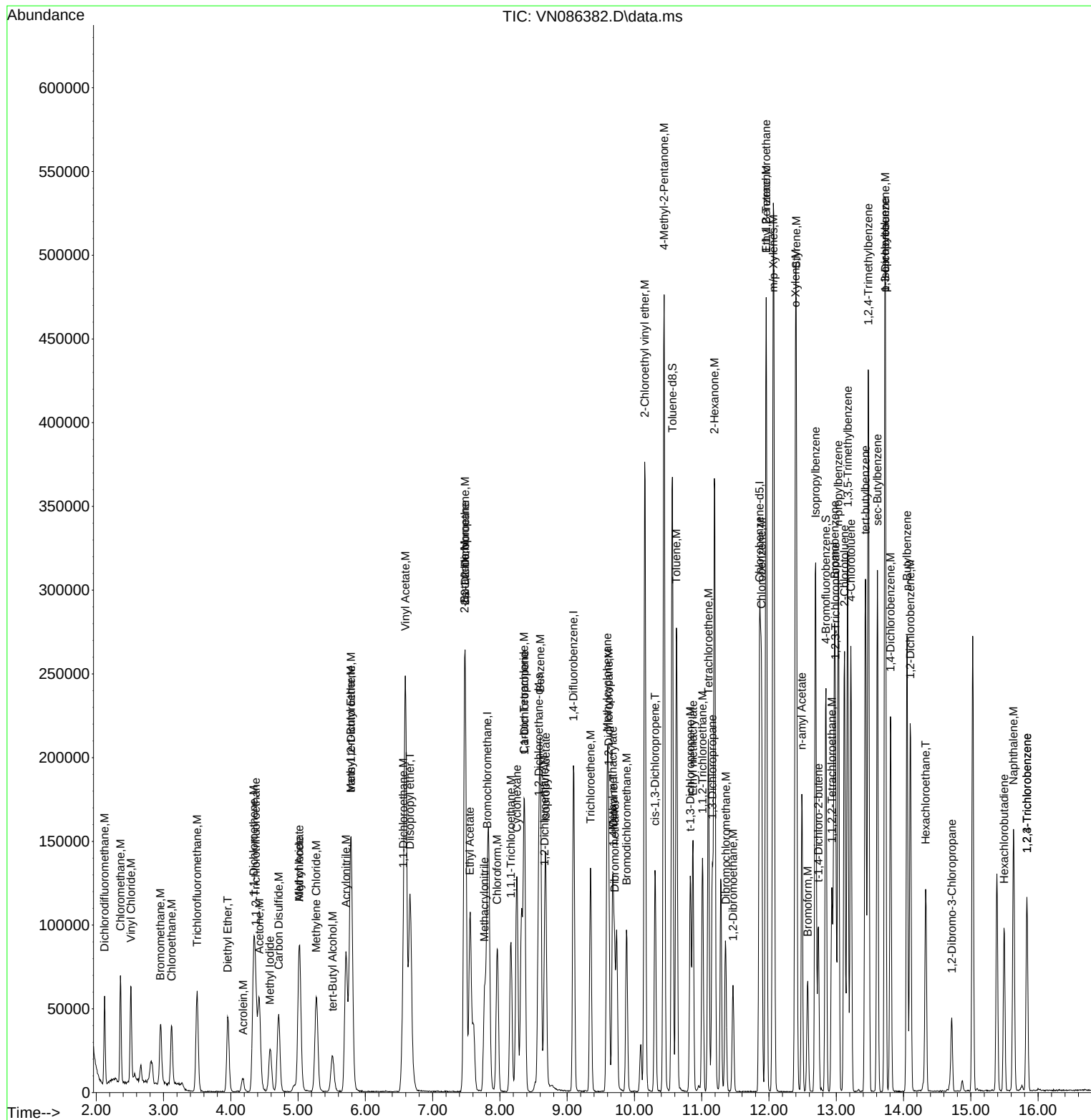
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Data File : VN086382.D
Acq On : 23 Apr 2025 15:02
Operator : JC\MD
Sample : VN0423WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

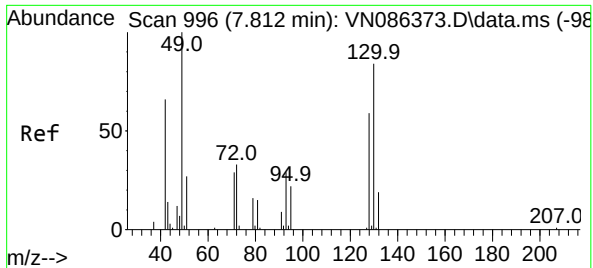
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:59:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 04:42:24 2025
Response via : Initial Calibration





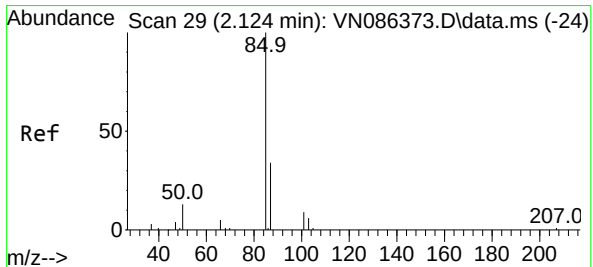
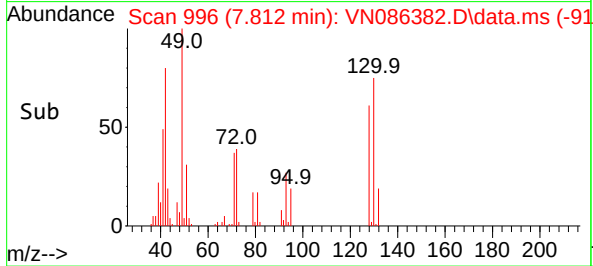
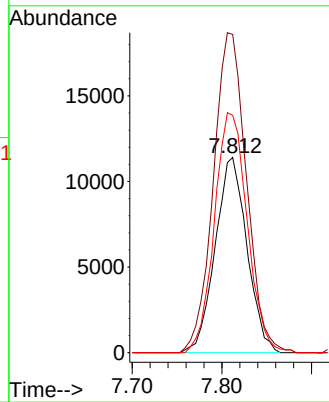
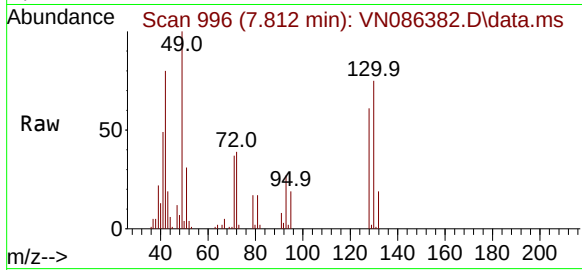
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Tgt Ion:128 Resp: 28009
Ion Ratio Lower Upper
128 100
49 170.8 0.0 433.8
130 127.2 0.0 325.0

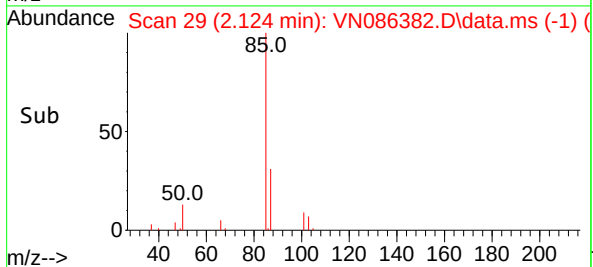
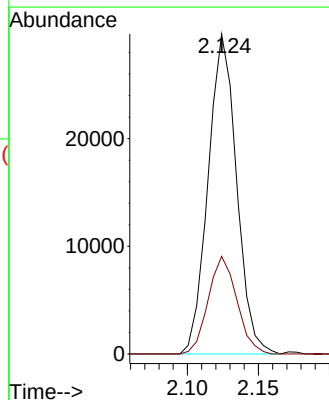
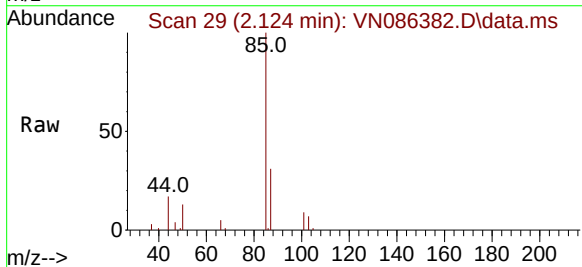
Manual Integrations
APPROVED

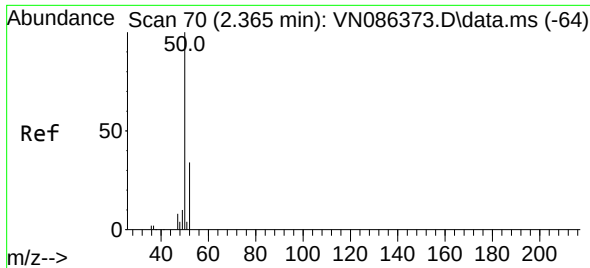
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 21.403 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 85 Resp: 41387
Ion Ratio Lower Upper
85 100
87 30.5 17.0 50.9





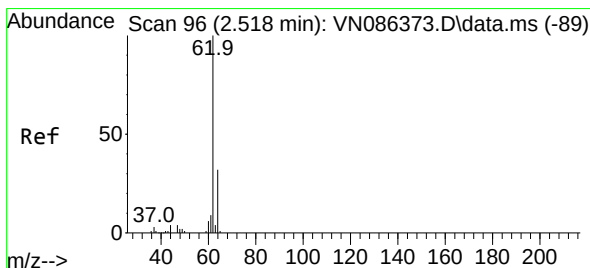
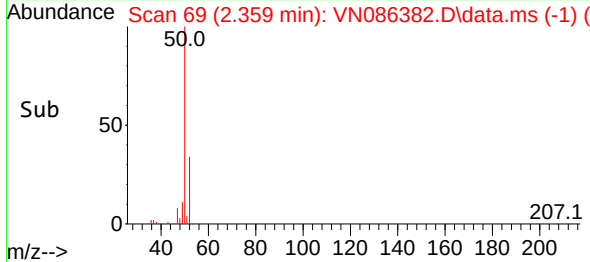
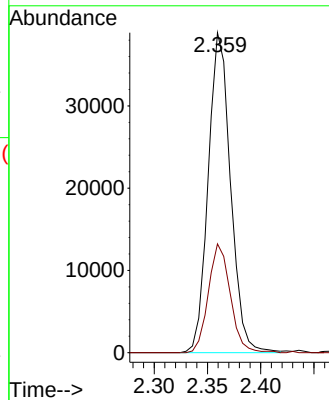
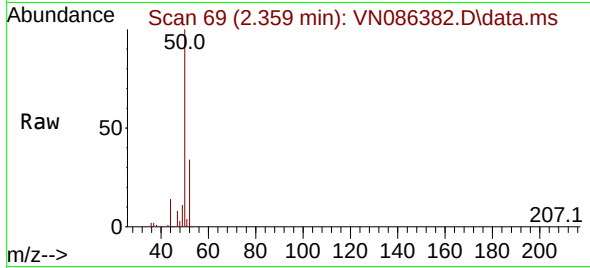
#3
Chloromethane
Concen: 20.655 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Tgt Ion: 50 Resp: 56730
Ion Ratio Lower Upper
50 100
52 34.0 27.3 40.9

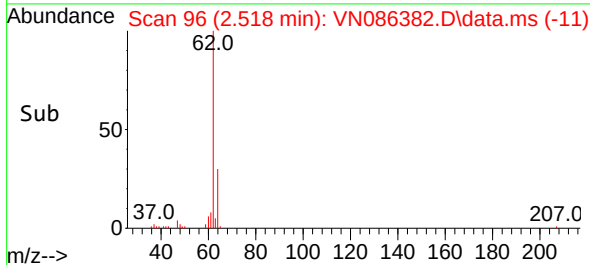
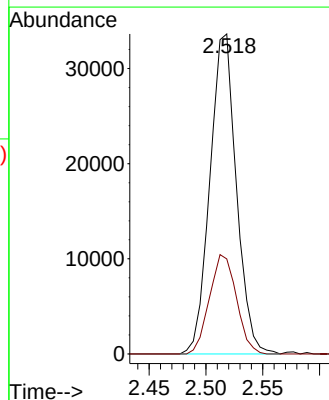
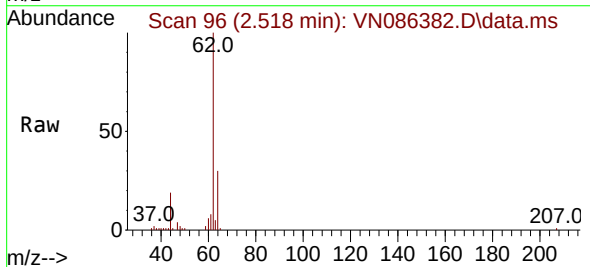
Manual Integrations
APPROVED

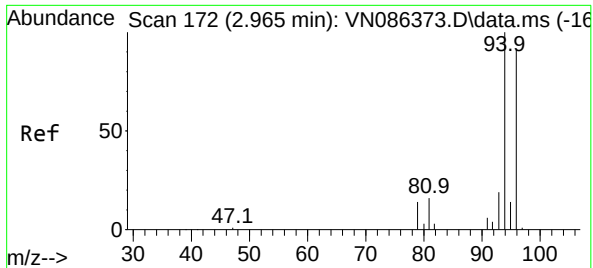
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 20.712 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

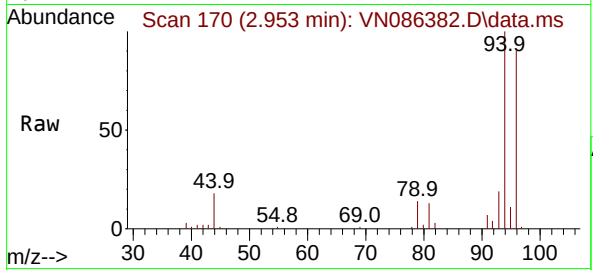
Tgt Ion: 62 Resp: 54489
Ion Ratio Lower Upper
62 100
64 29.7 25.8 38.8





#5
Bromomethane
Concen: 21.449 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

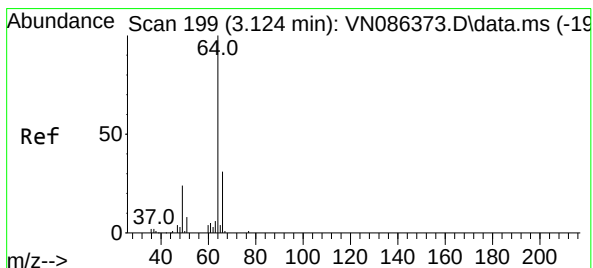
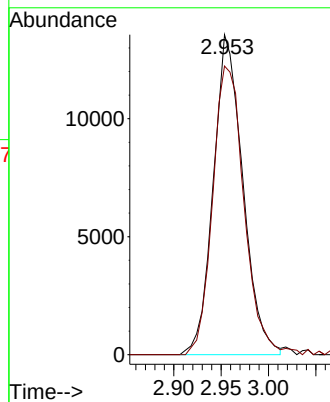
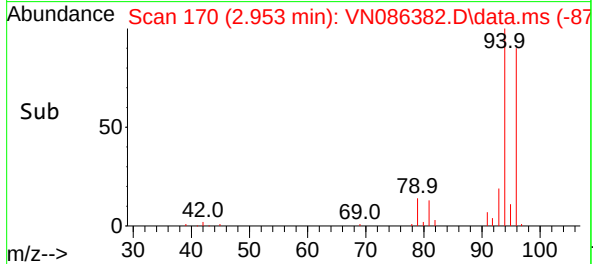
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 94 Resp: 2946
Ion Ratio Lower Upper
94 100
96 90.2 72.4 108.6

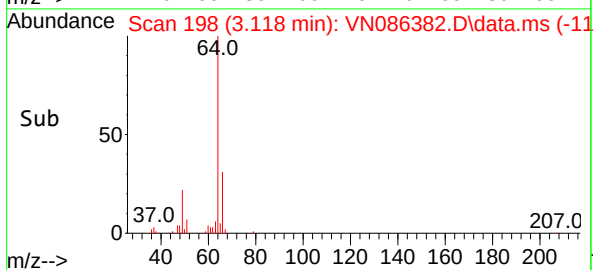
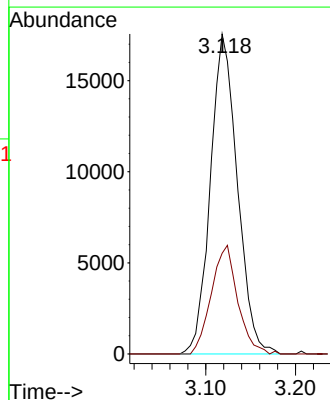
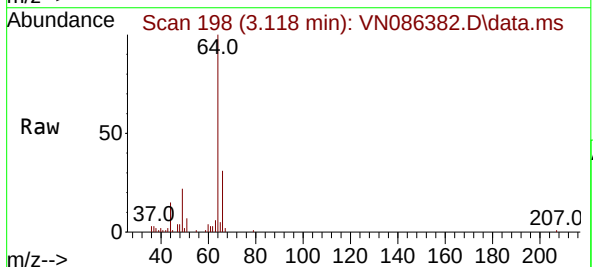
Manual Integrations
APPROVED

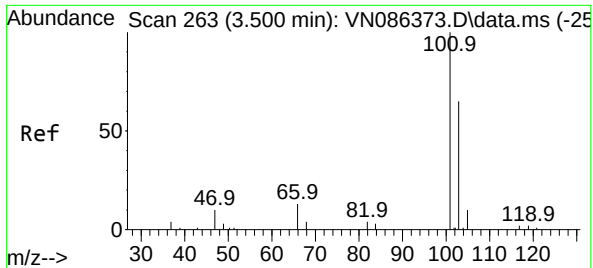
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 20.914 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

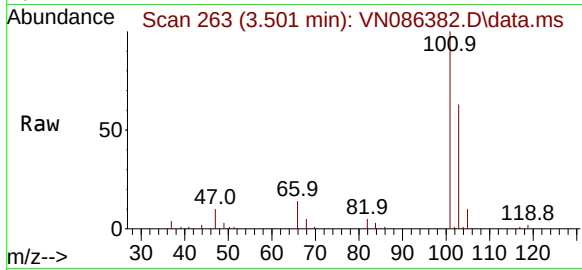
Tgt Ion: 64 Resp: 36681
Ion Ratio Lower Upper
64 100
66 31.5 24.5 36.7





#7
Trichlorofluoromethane
Concen: 20.978 ug/l
RT: 3.501 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

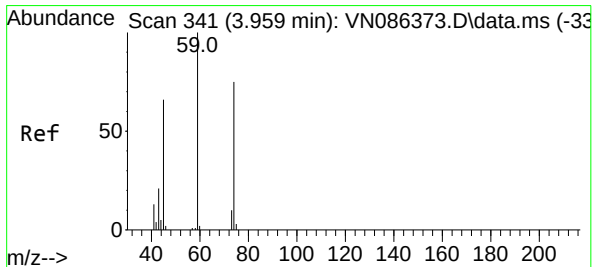
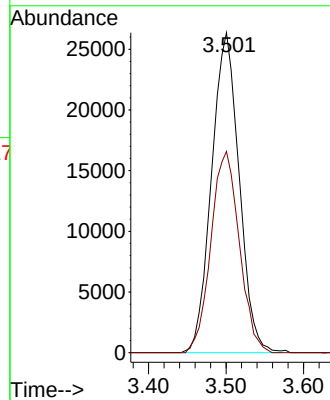
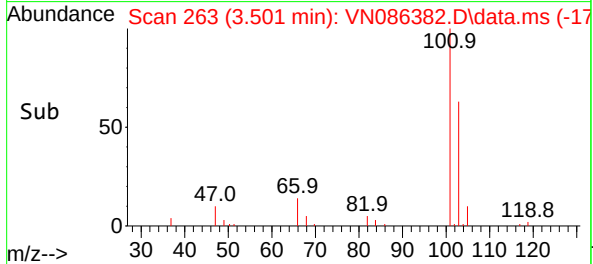
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion:101 Resp: 6514
Ion Ratio Lower Upper
101 100
103 62.9 51.8 77.6

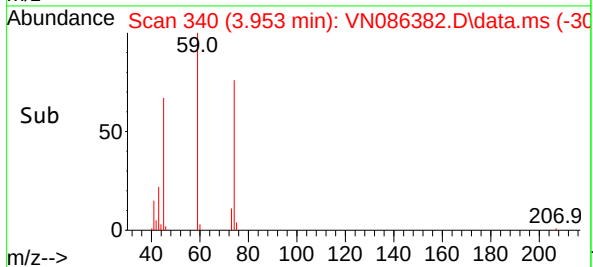
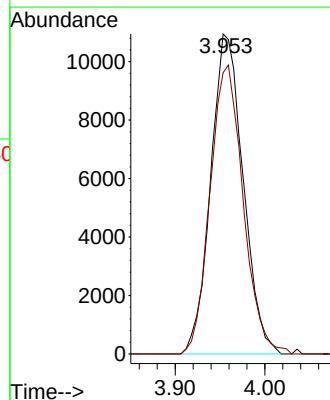
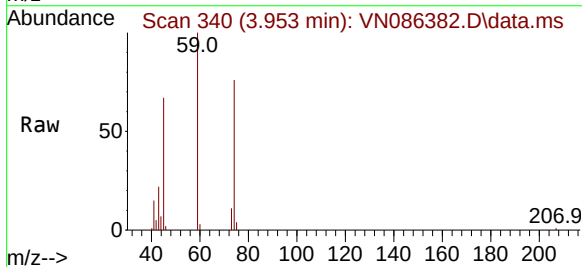
Manual Integrations
APPROVED

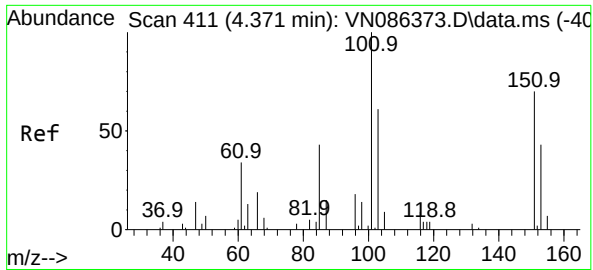
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 20.929 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 74 Resp: 27434
Ion Ratio Lower Upper
74 100
45 92.3 18.5 166.3





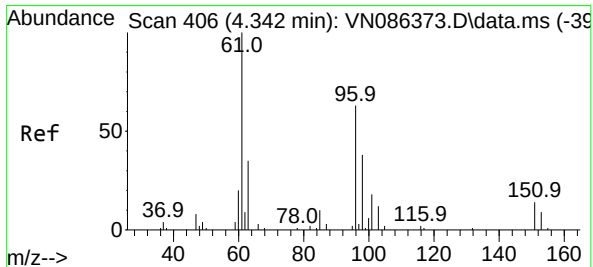
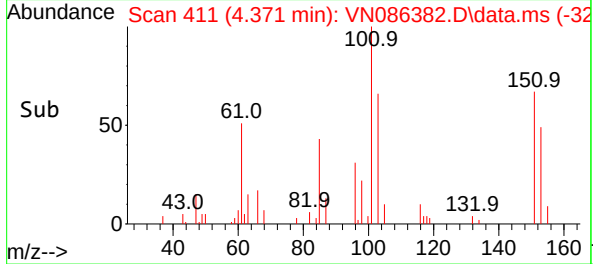
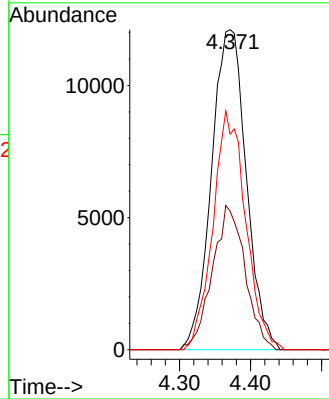
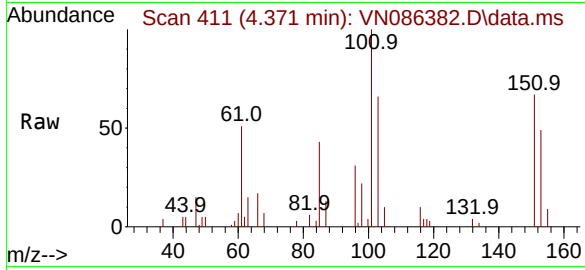
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.602 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Tgt Ion:101 Resp: 41239
Ion Ratio Lower Upper
101 100
85 42.4 0.0 84.4
151 39.3 0.0 145.8

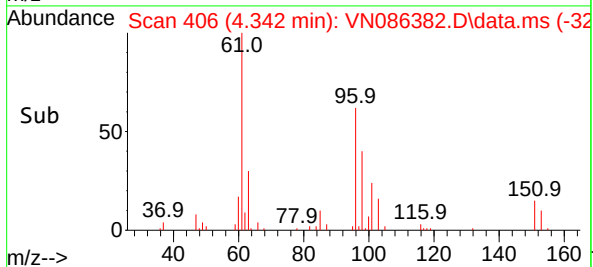
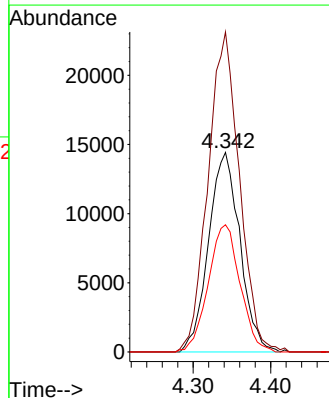
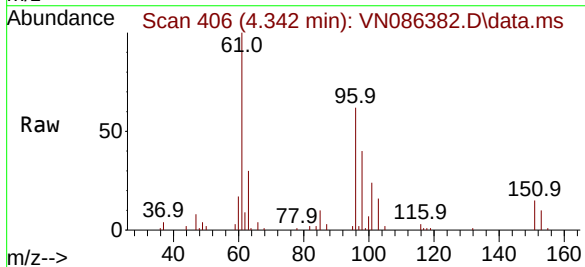
Manual Integrations
APPROVED

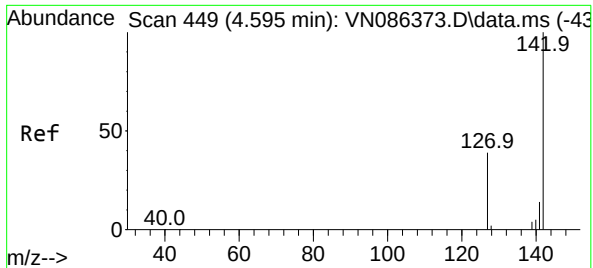
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 20.773 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 96 Resp: 40590
Ion Ratio Lower Upper
96 100
61 159.3 126.2 189.4
98 63.8 48.5 72.7





#11

Methyl Iodide

Concen: 21.079 ug/l

RT: 4.583 min Scan# 449

Delta R.T. -0.012 min

Lab File: VN086382.D

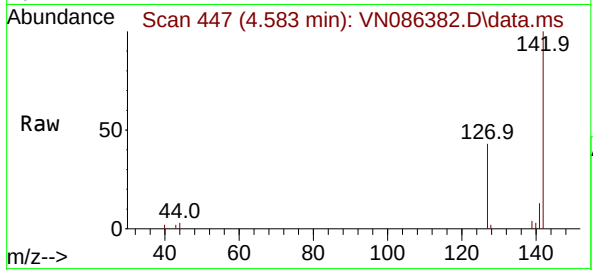
Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01



Tgt Ion:142 Resp: 4819

Ion Ratio Lower Upper

142 100

127 42.7 19.3 57.9

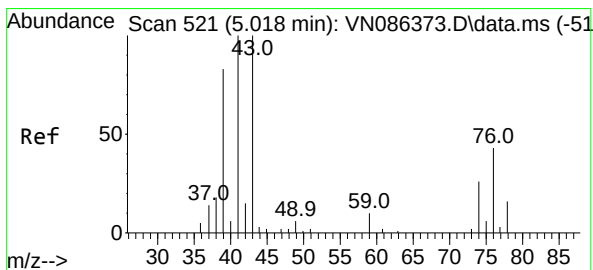
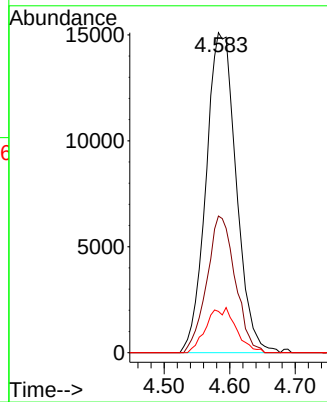
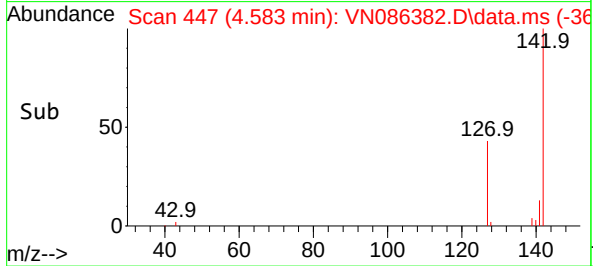
141 12.9 7.1 21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 22.210 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN086382.D

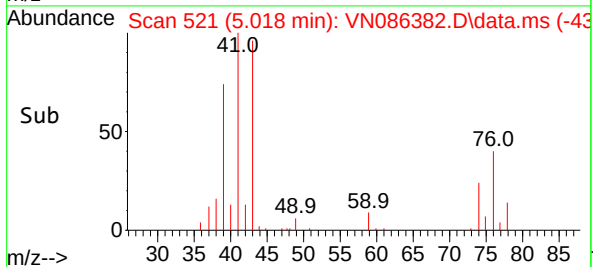
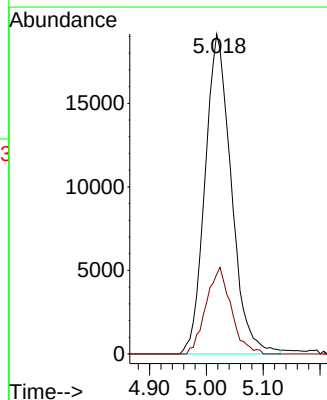
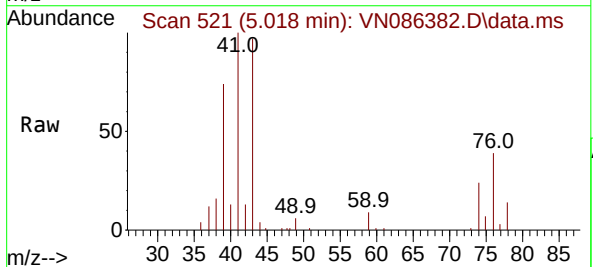
Acq: 23 Apr 2025 15:02

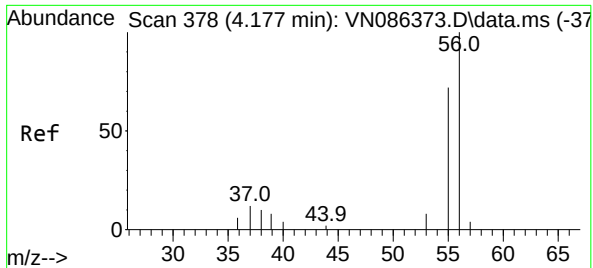
Tgt Ion: 43 Resp: 61511

Ion Ratio Lower Upper

43 100

74 25.0 20.8 31.2





#13

Acrolein

Concen: 76.023 ug/l m

RT: 4.183 min Scan# 3

Delta R.T. 0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 56 Resp: 1115

Ion Ratio Lower Upper

56 100

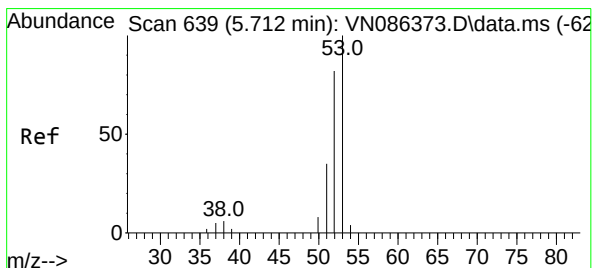
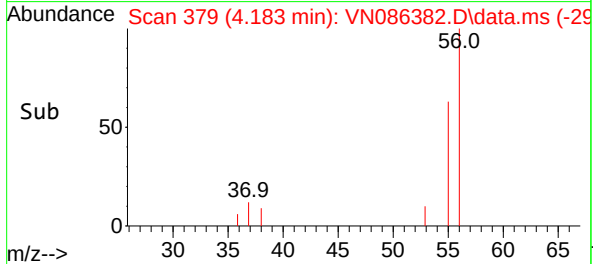
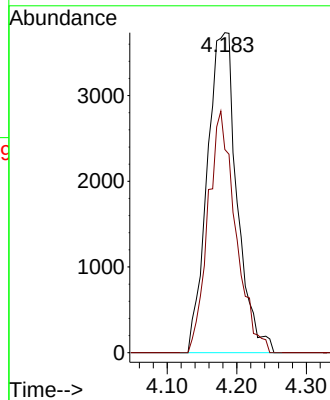
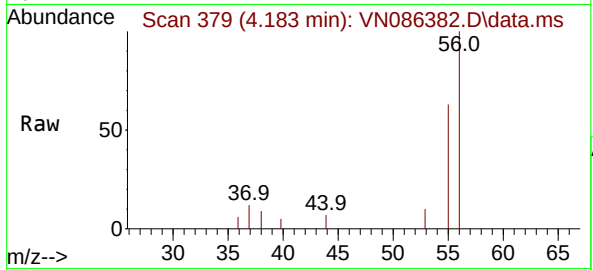
55 68.8 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 107.615 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

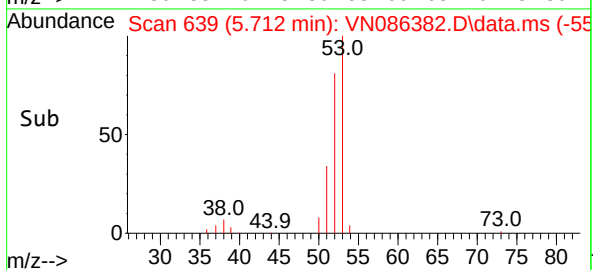
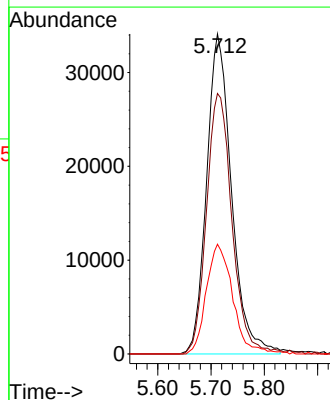
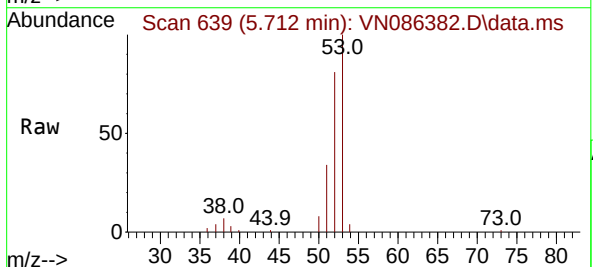
Tgt Ion: 53 Resp: 110928

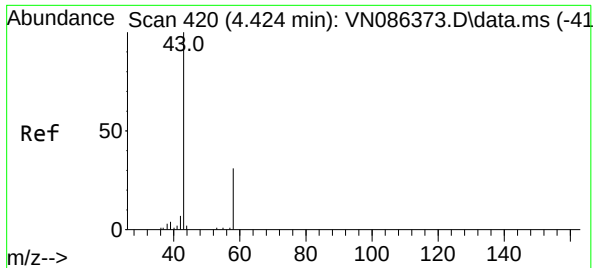
Ion Ratio Lower Upper

53 100

52 82.4 41.2 123.6

51 35.3 17.6 52.8





#15

Acetone

Concen: 112.908 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 58 Resp: 32070

Ion Ratio Lower Upper

58 100

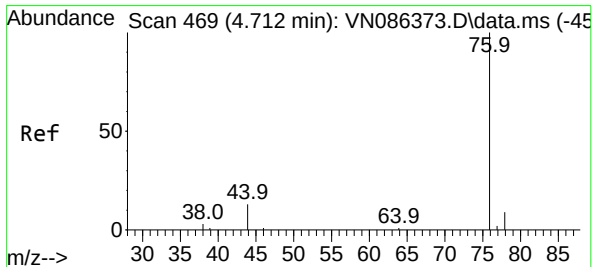
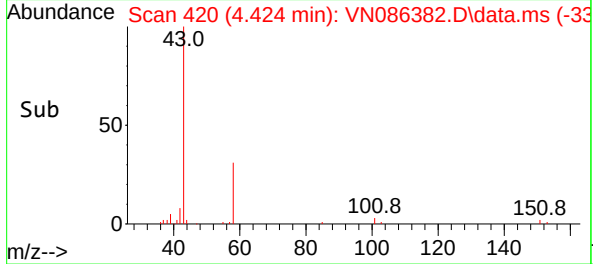
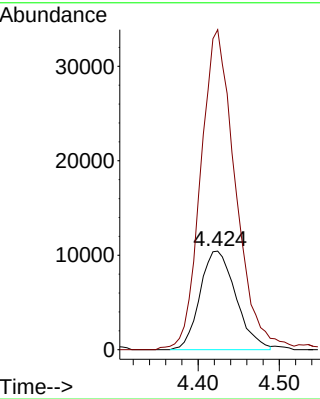
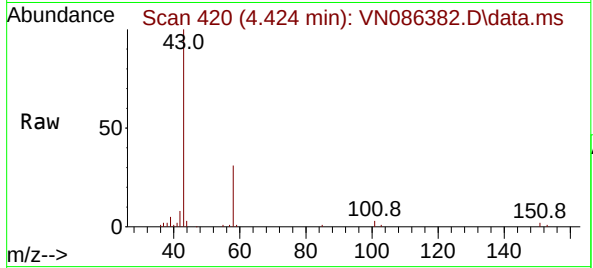
43 320.9 255.1 382.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 20.750 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086382.D

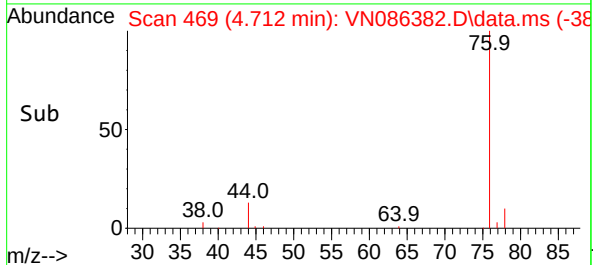
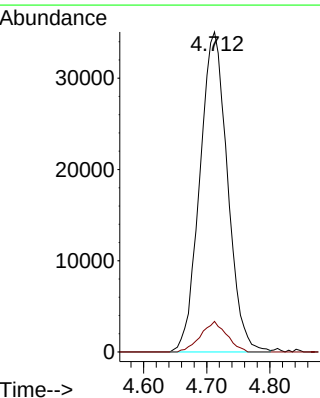
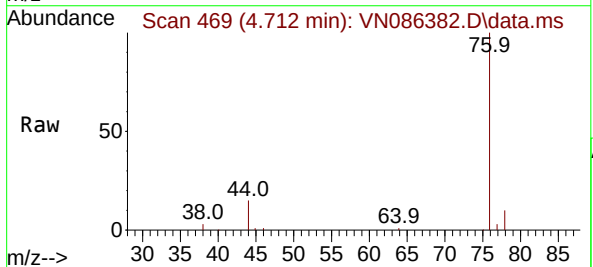
Acq: 23 Apr 2025 15:02

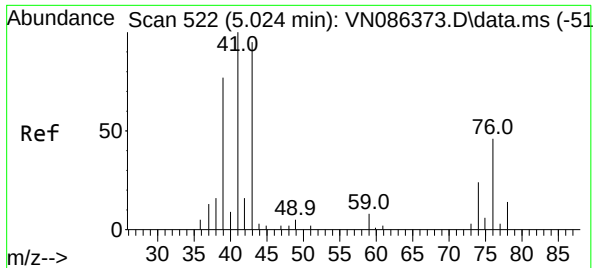
Tgt Ion: 76 Resp: 106838

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7





#17

Allyl chloride

Concen: 20.796 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 41 Resp: 64974

Ion Ratio Lower Upper

41 100

39 73.2 36.7 110.1

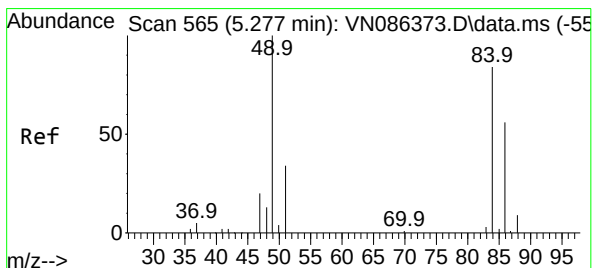
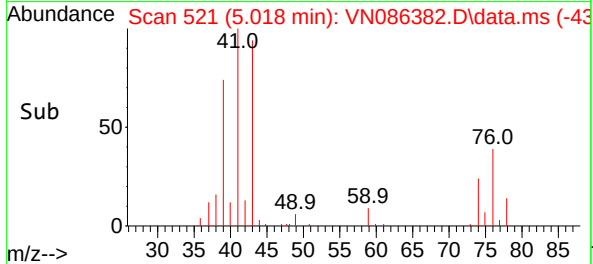
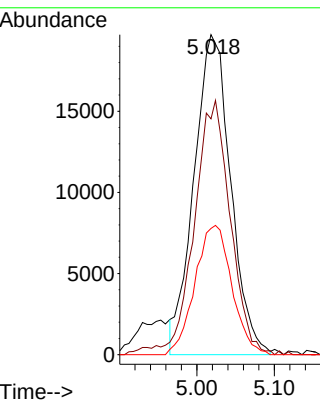
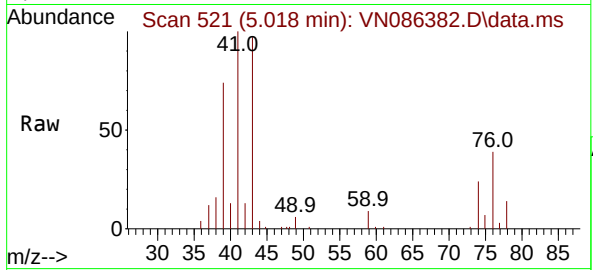
76 39.8 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 20.817 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Tgt Ion: 84 Resp: 46322

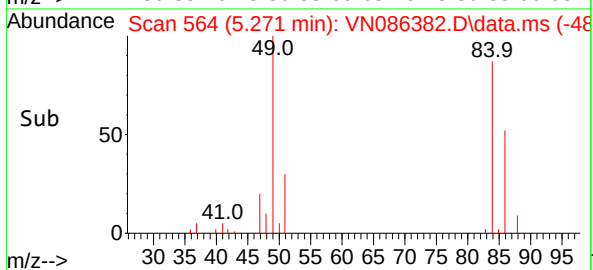
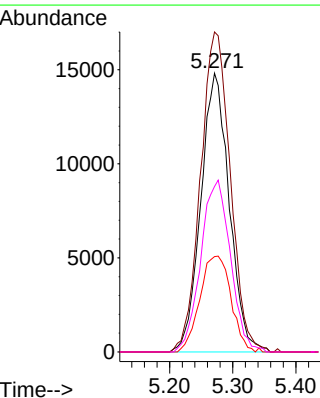
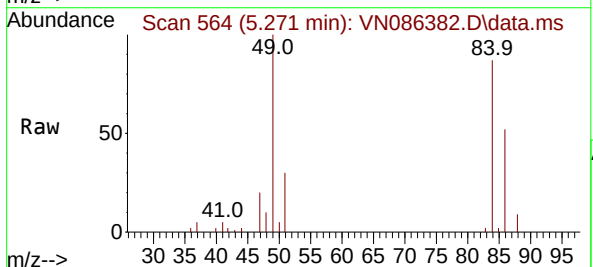
Ion Ratio Lower Upper

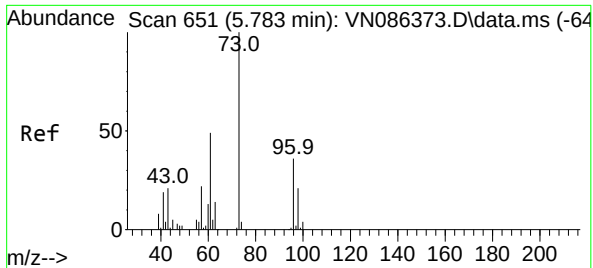
84 100

49 114.8 95.4 143.0

51 34.2 32.8 49.2

86 59.3 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 20.050 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086382.D

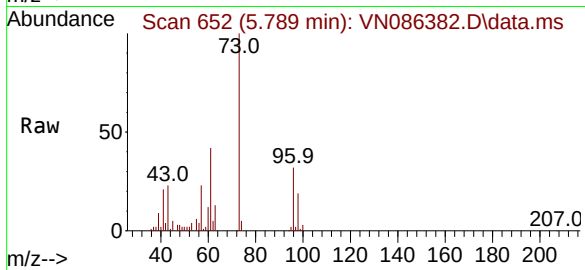
Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01



Tgt Ion: 96 Resp: 4175

Ion Ratio Lower Upper

96 100

61 132.7 107.3 160.9

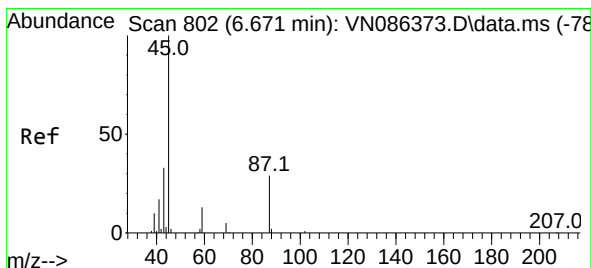
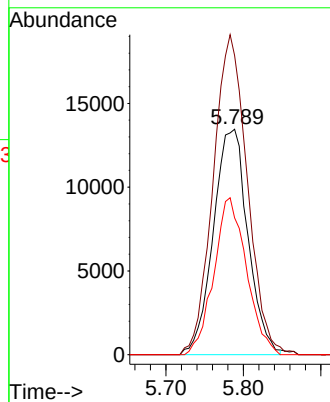
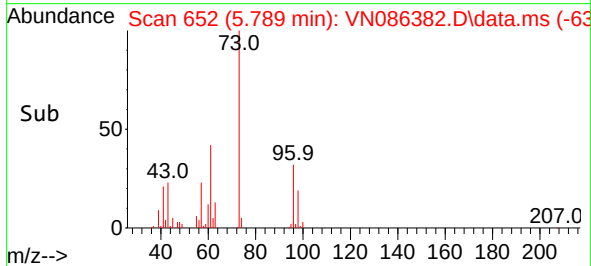
98 60.6 46.7 70.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 20.686 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Tgt Ion: 45 Resp: 153673

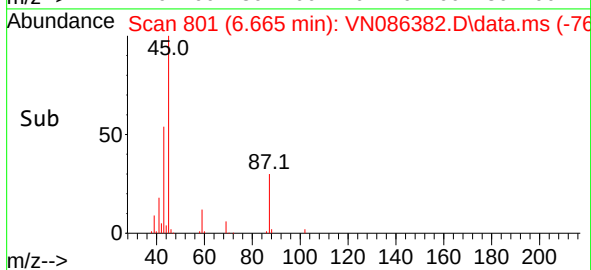
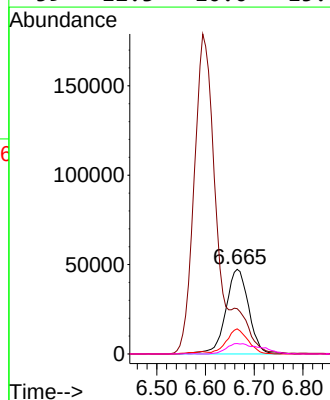
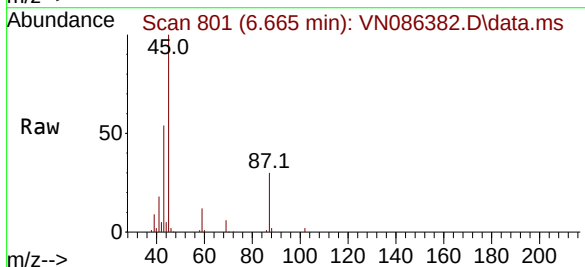
Ion Ratio Lower Upper

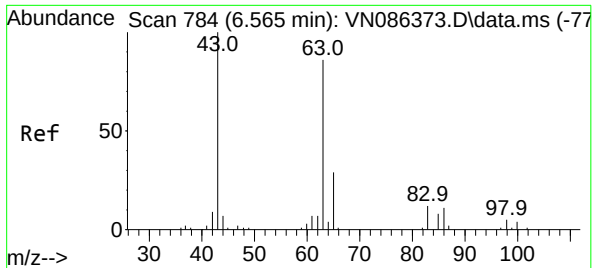
45 100

43 51.7 38.8 58.2

87 29.8 23.5 35.3

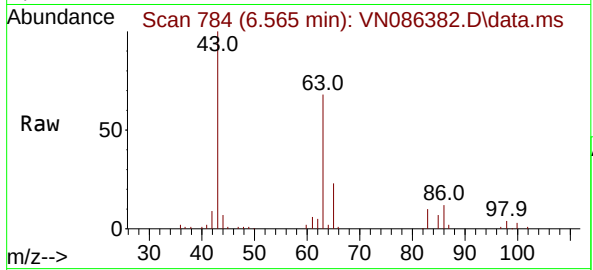
59 12.3 10.0 15.0





#21
1,1-Dichloroethane
Concen: 20.655 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

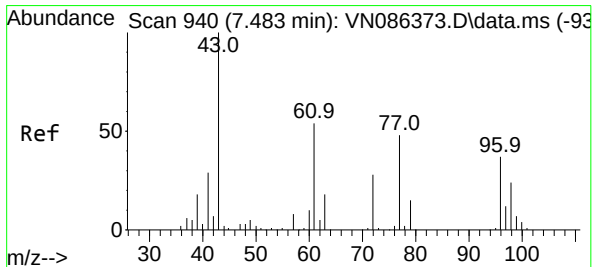
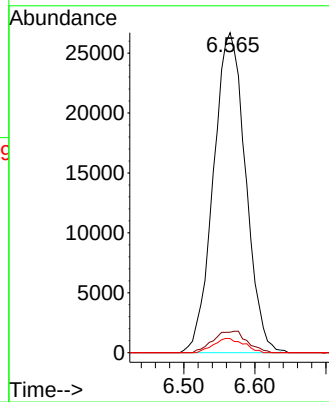
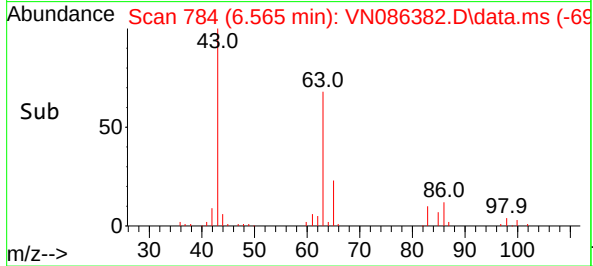
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 63 Resp: 8399
Ion Ratio Lower Upper
63 100
98 6.4 3.0 9.2
100 4.4 2.3 6.8

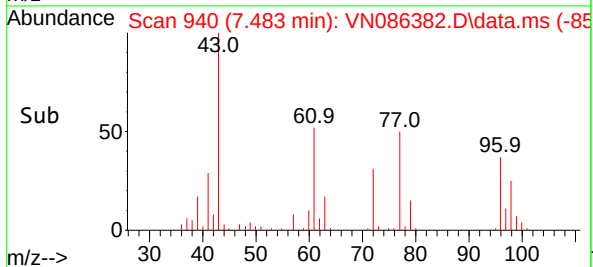
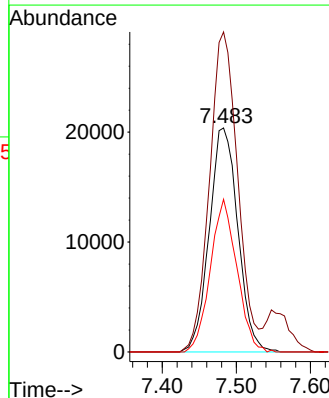
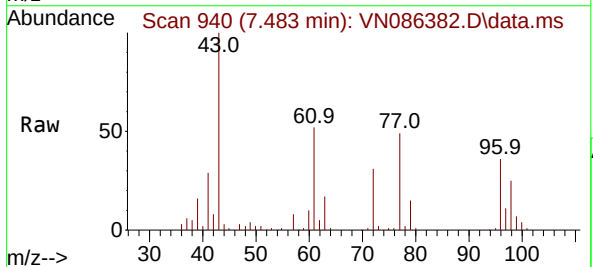
Manual Integrations
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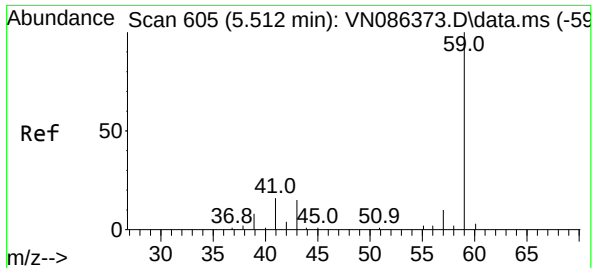
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 20.970 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

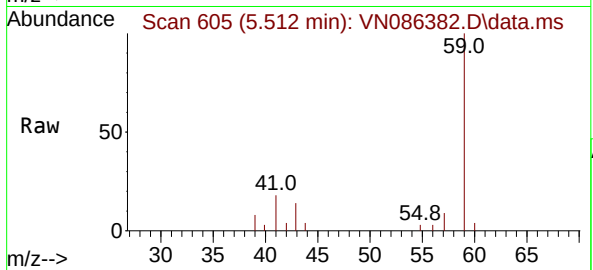
Tgt Ion: 96 Resp: 54611
Ion Ratio Lower Upper
96 100
61 140.7 120.6 181.0
98 63.2 51.8 77.6





#23
tert-Butyl Alcohol
Concen: 108.593 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

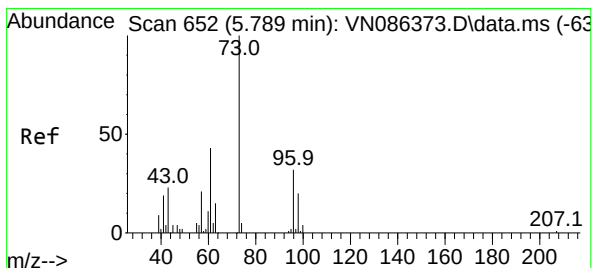
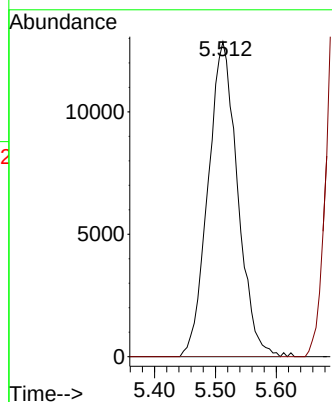
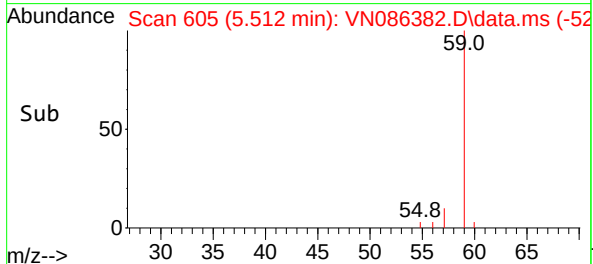
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 59 Resp: 43362
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1

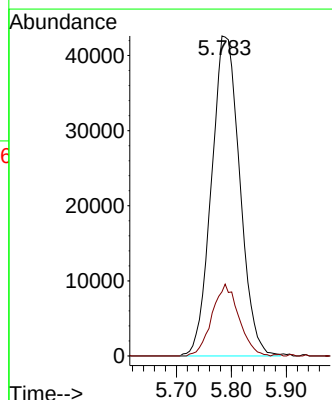
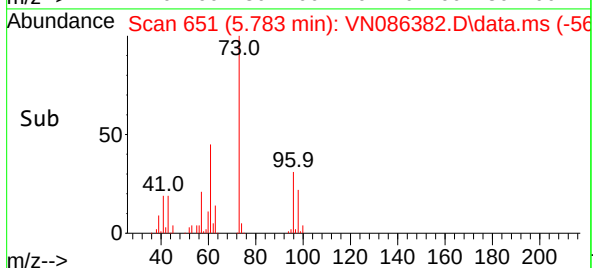
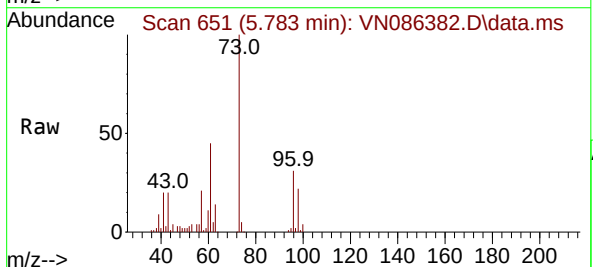
Manual Integrations
APPROVED

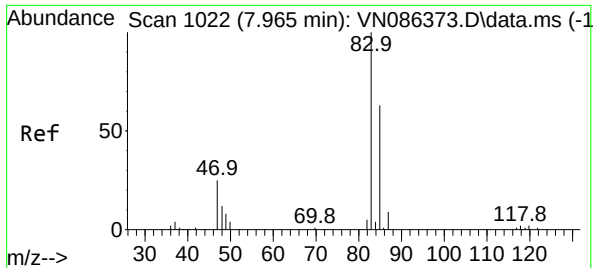
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#24
Methyl tert-Butyl Ether
Concen: 21.137 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 73 Resp: 152593
Ion Ratio Lower Upper
73 100
43 21.2 17.1 25.7





#25

Chloroform

Concen: 20.608 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 83 Resp: 84814

Ion Ratio Lower Upper

83 100

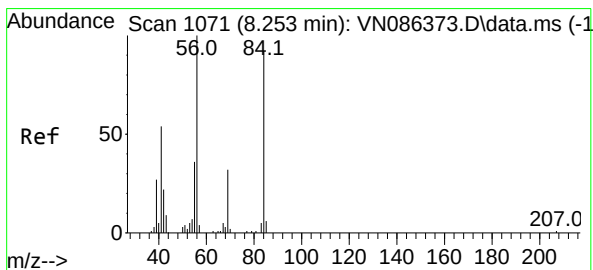
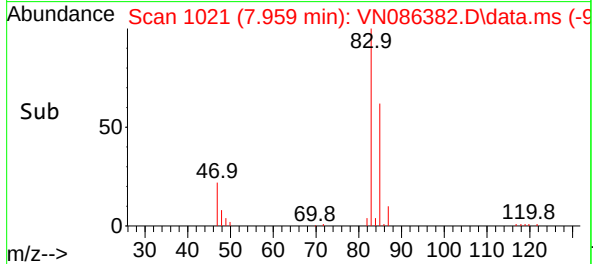
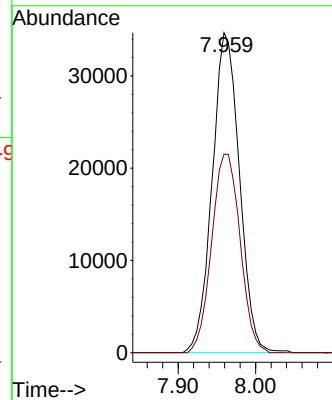
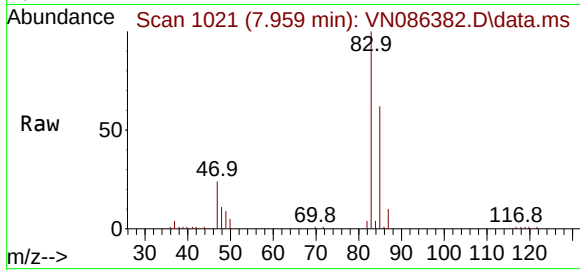
85 62.0 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 21.016 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

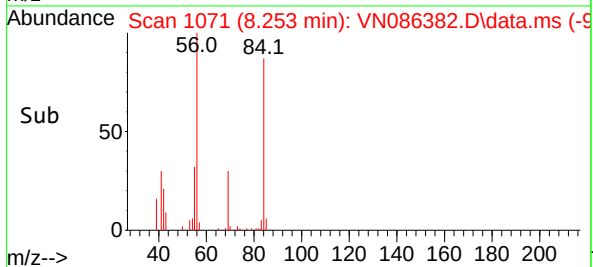
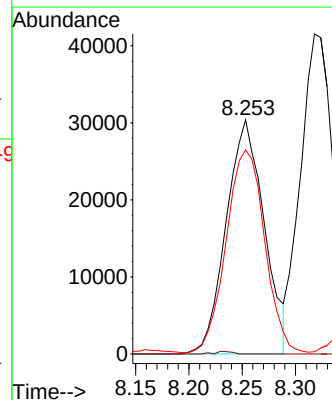
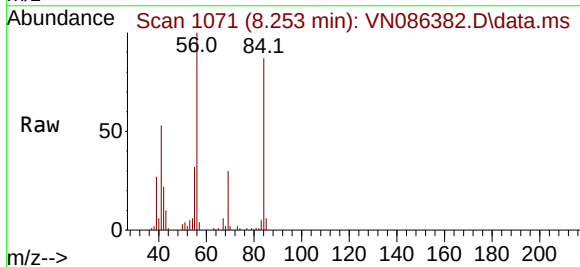
Tgt Ion: 56 Resp: 75458

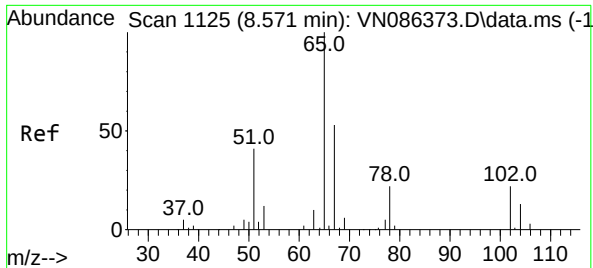
Ion Ratio Lower Upper

56 100

89 0.4 0.0 0.0#

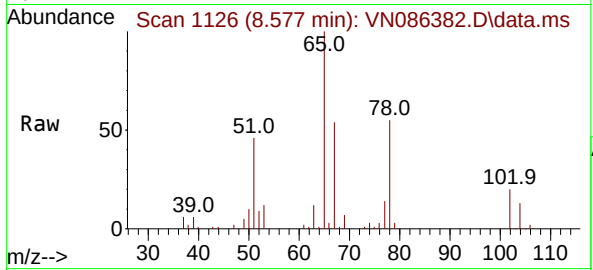
84 88.9 71.5 107.3





#27
1,2-Dichloroethane-d4
Concen: 30.856 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

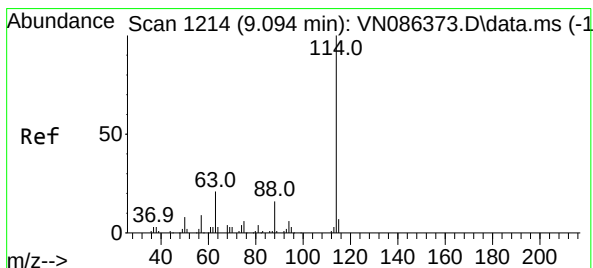
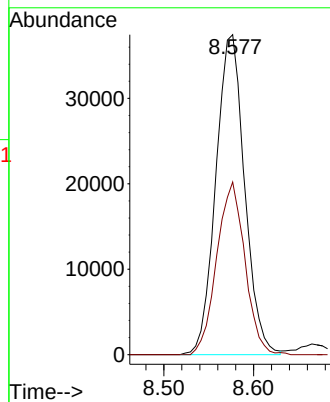
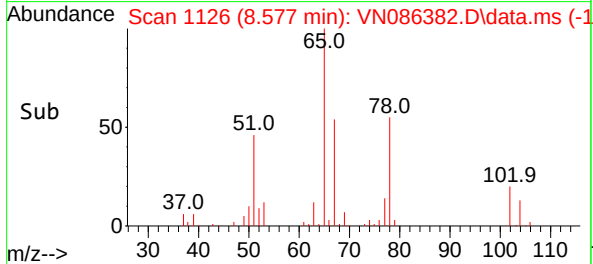
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 65 Resp: 8332
Ion Ratio Lower Upper
65 100
67 52.7 42.5 63.7

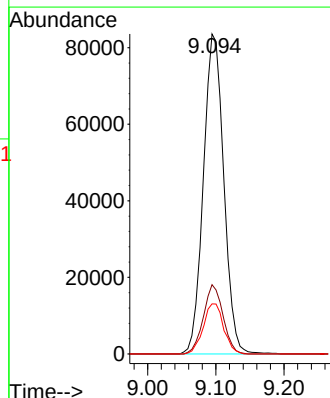
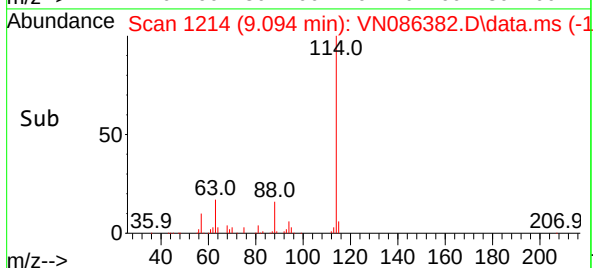
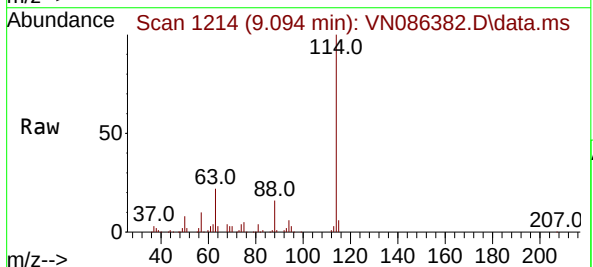
Manual Integrations
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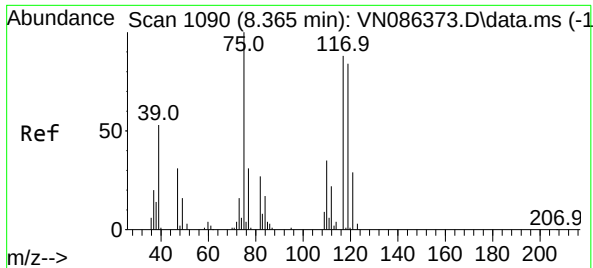
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion:114 Resp: 174005
Ion Ratio Lower Upper
114 100
63 20.8 16.7 25.1
88 15.6 12.6 19.0





#29

1,1-Dichloropropene

Concen: 19.765 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 75 Resp: 60632

Ion Ratio Lower Upper

75 100

110 33.9 0.0 68.0

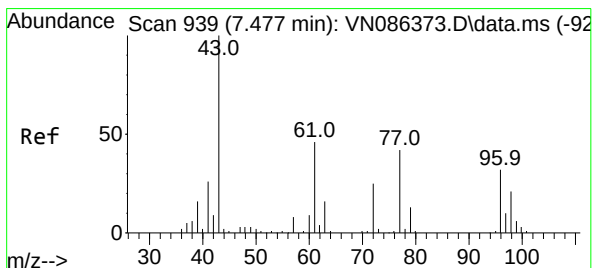
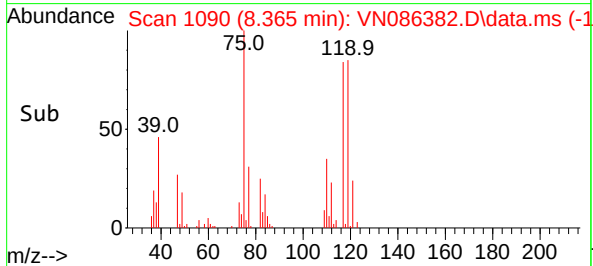
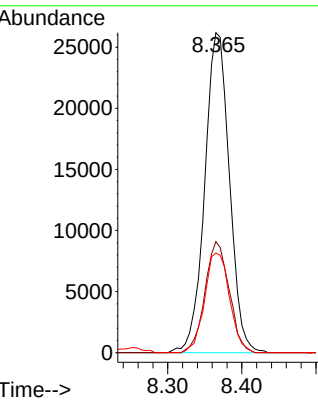
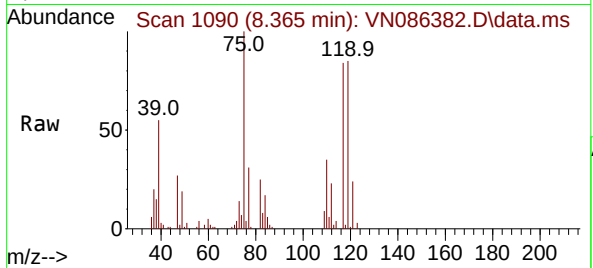
77 31.5 0.0 61.4

Manual Integrations

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Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 105.054 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

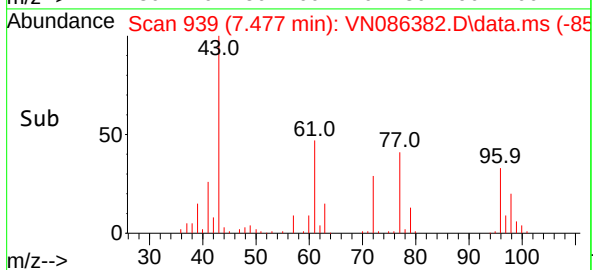
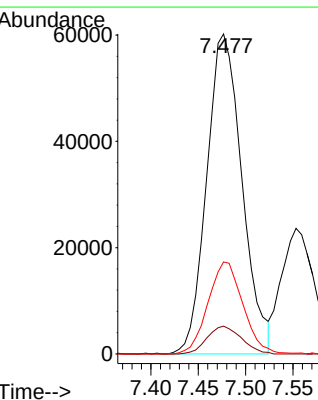
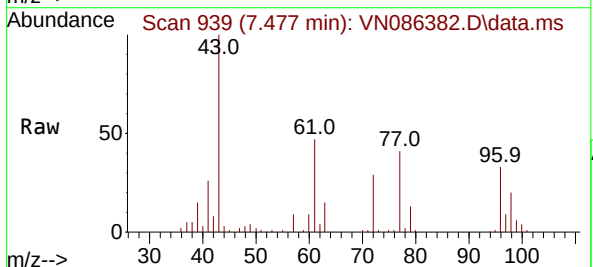
Tgt Ion: 43 Resp: 156415

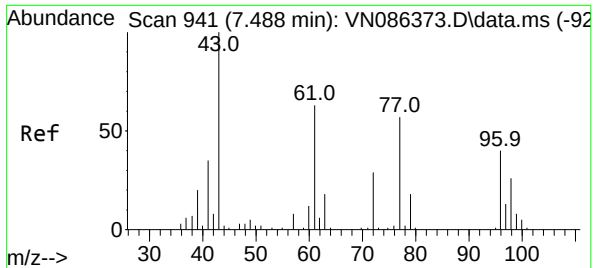
Ion Ratio Lower Upper

43 100

57 8.4 6.6 10.0

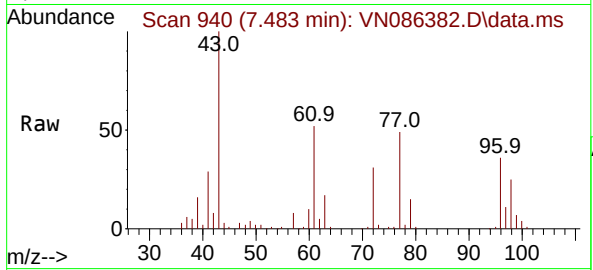
72 28.3 22.2 33.4





#31
2,2-Dichloropropane
Concen: 19.676 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

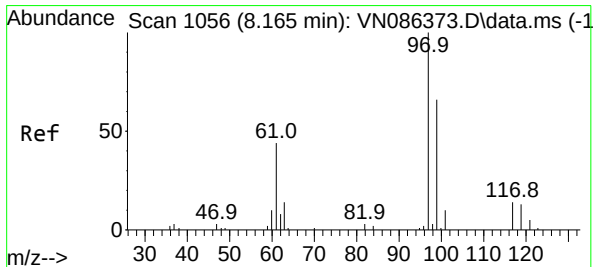
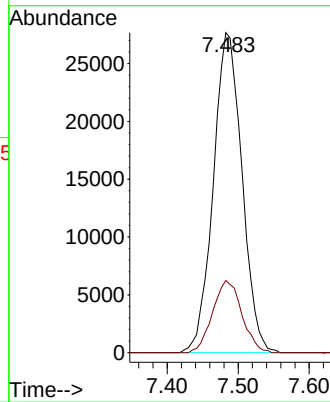
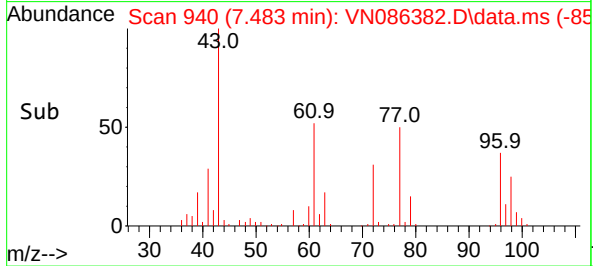
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



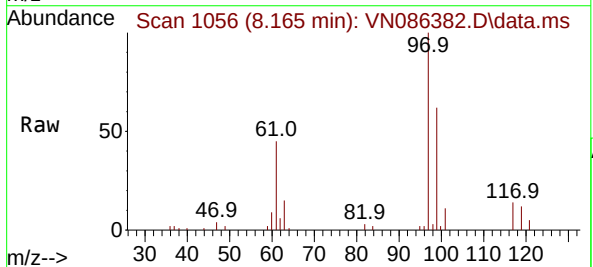
Tgt Ion: 77 Resp: 77589
Ion Ratio Lower Upper
77 100
97 22.9 18.2 27.2

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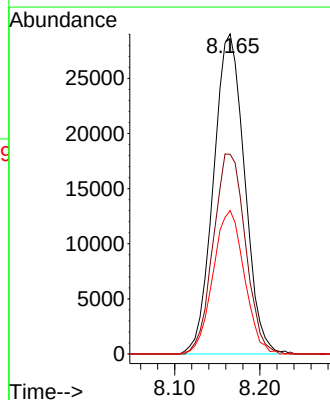
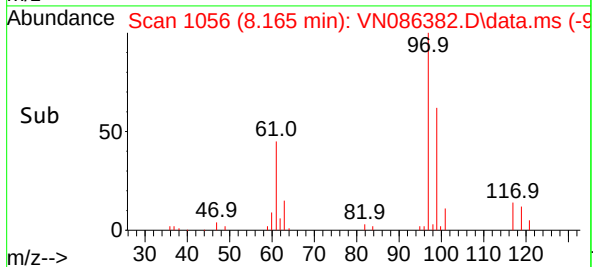
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

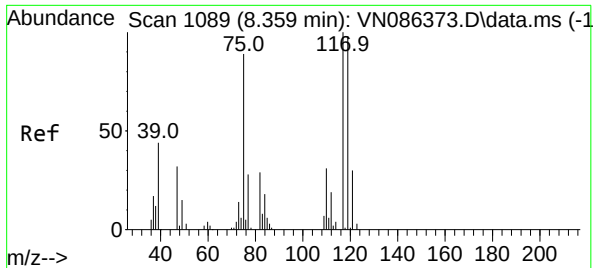


#32
1,1,1-Trichloroethane
Concen: 20.065 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02



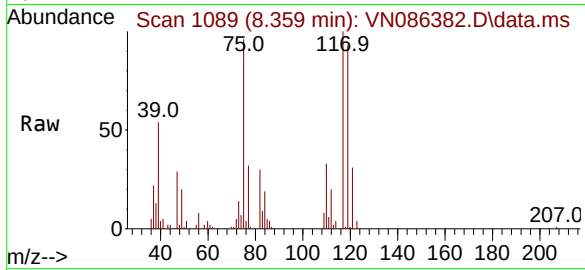
Tgt Ion: 97 Resp: 73550
Ion Ratio Lower Upper
97 100
99 64.7 52.6 79.0
61 45.2 36.4 54.6





#33
Carbon Tetrachloride
Concen: 19.878 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

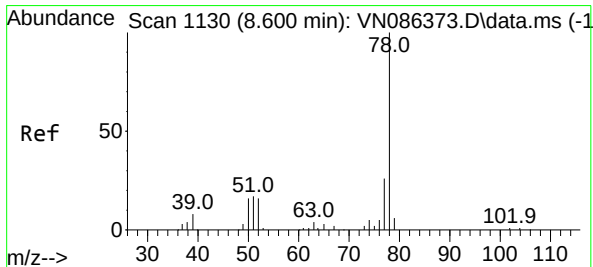
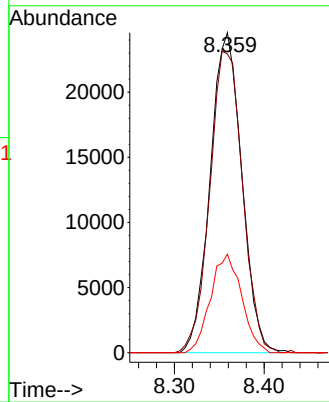
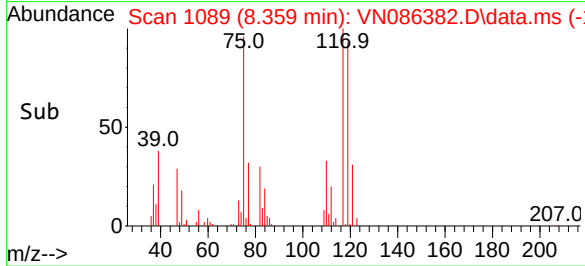
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 117 Resp: 5998
Ion Ratio Lower Upper
117 100
119 93.4 78.6 117.8
121 30.8 24.0 36.0

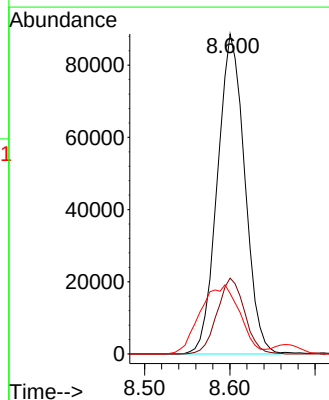
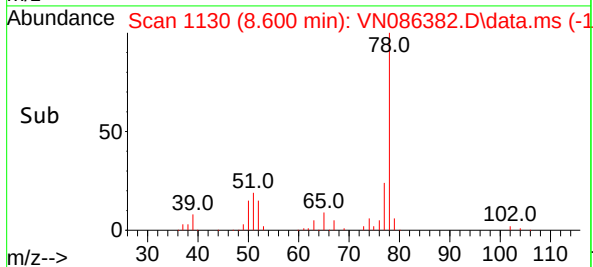
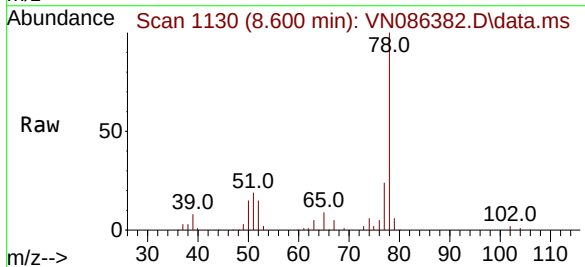
Manual Integrations
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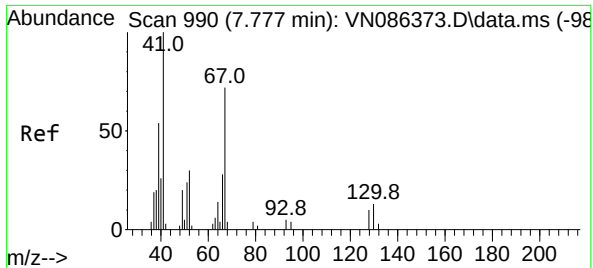
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 20.191 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 78 Resp: 196998
Ion Ratio Lower Upper
78 100
77 23.7 20.8 31.2
51 17.4 14.0 21.0





#35

Methacrylonitrile

Concen: 20.439 ug/l

RT: 7.771 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 41 Resp: 34714

Ion Ratio Lower Upper

41 100

39 54.1 27.0 80.8

67 72.3 35.8 107.3

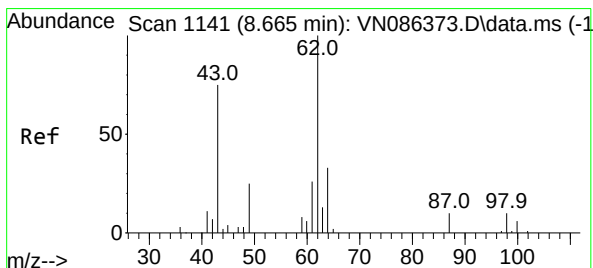
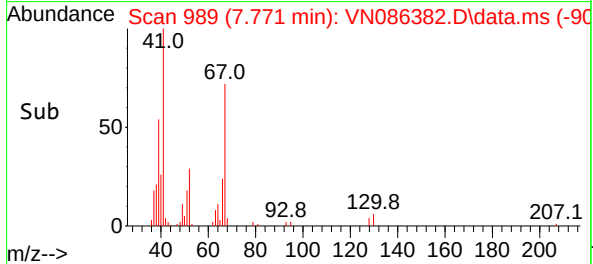
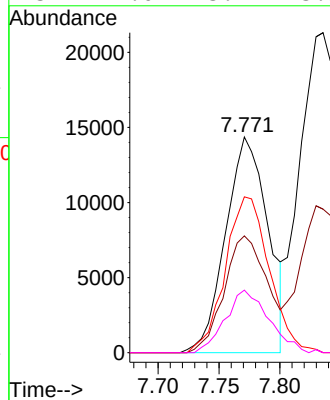
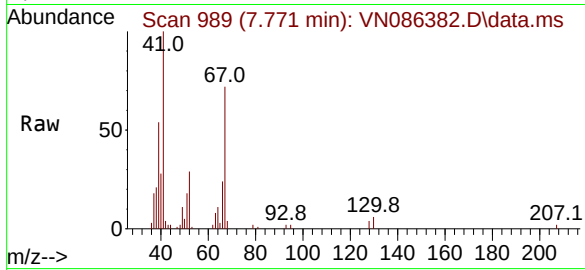
52 29.0 15.2 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#36

1,2-Dichloroethane

Concen: 19.915 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN086382.D

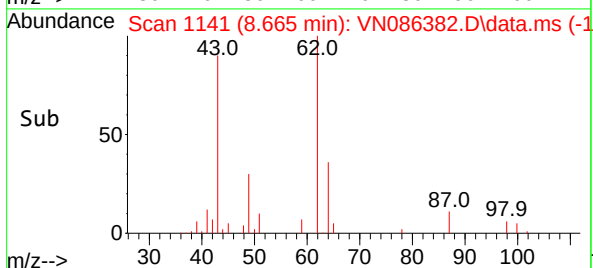
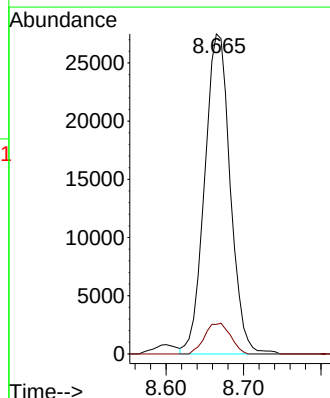
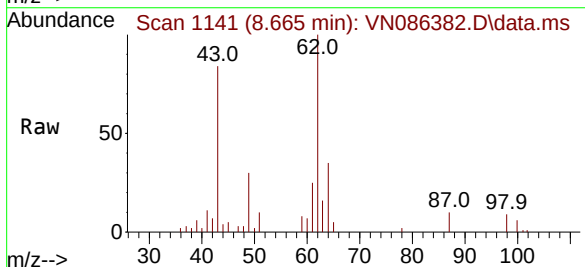
Acq: 23 Apr 2025 15:02

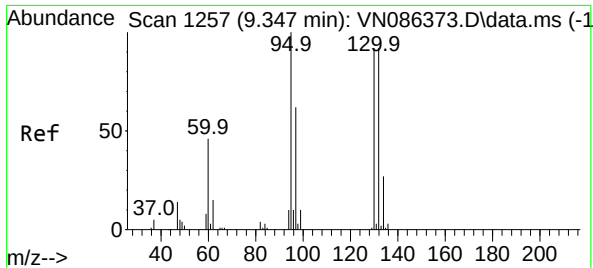
Tgt Ion: 62 Resp: 63085

Ion Ratio Lower Upper

62 100

98 9.6 7.6 11.4





#37

Trichloroethene

Concen: 19.176 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion:130 Resp: 4683

Ion Ratio Lower Upper

130 100

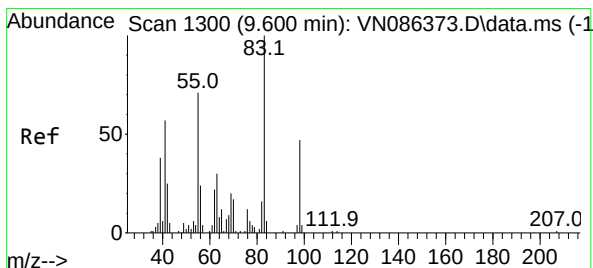
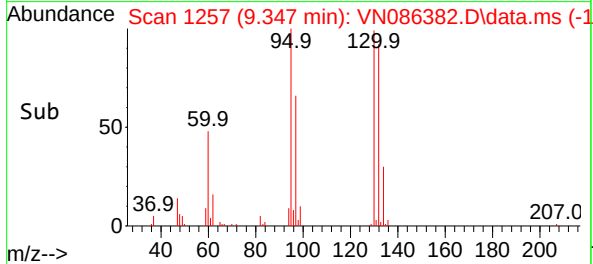
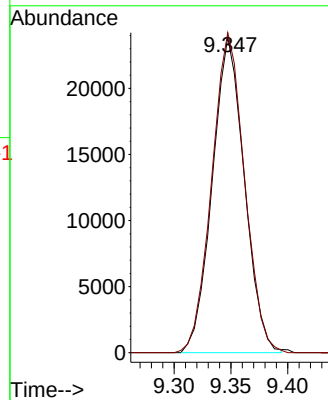
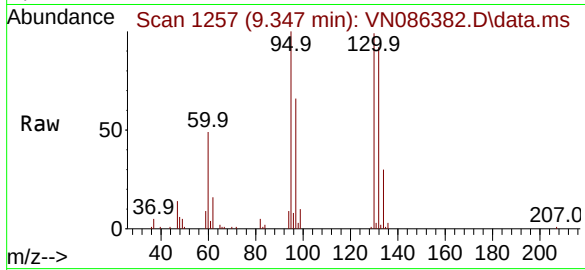
95 100.7 86.6 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#38

Methylcyclohexane

Concen: 19.648 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

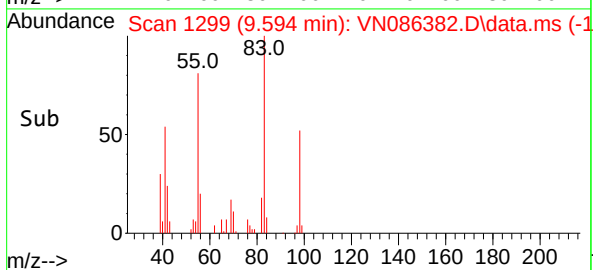
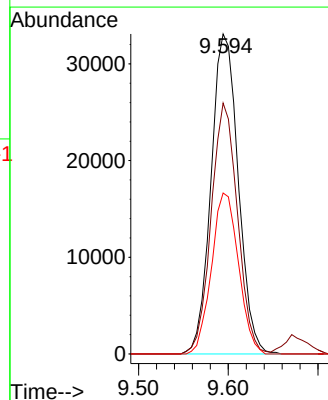
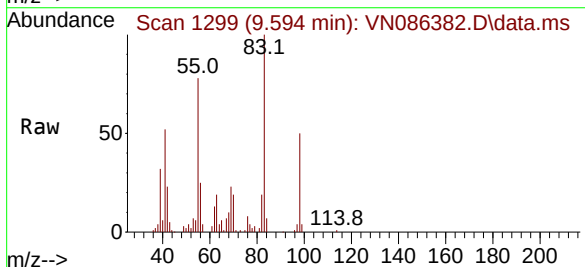
Tgt Ion: 83 Resp: 69608

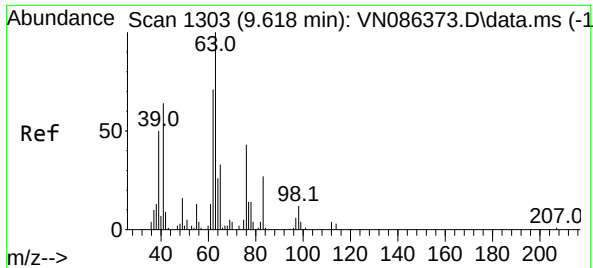
Ion Ratio Lower Upper

83 100

55 76.0 37.3 111.9

98 50.0 23.8 71.5





#39

1,2-Dichloropropane

Concen: 20.219 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 63 Resp: 4873

Ion Ratio Lower Upper

63 100

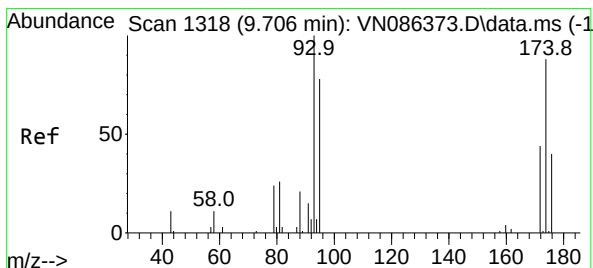
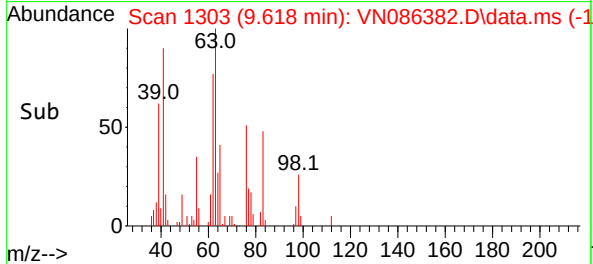
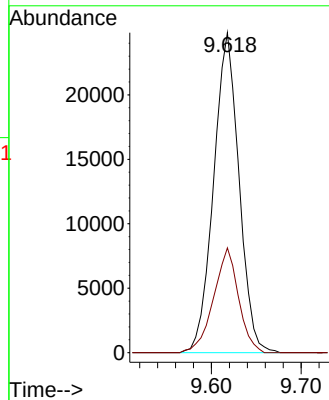
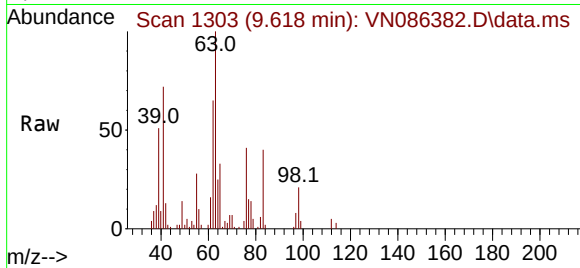
65 32.8 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 19.724 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

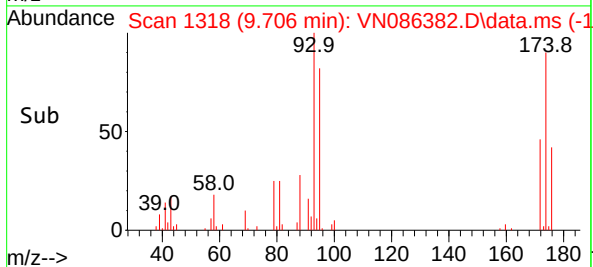
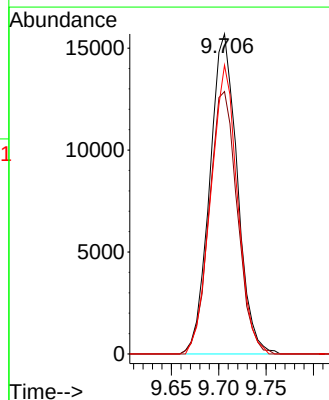
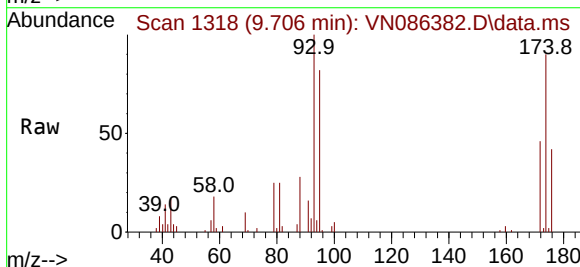
Tgt Ion: 93 Resp: 31793

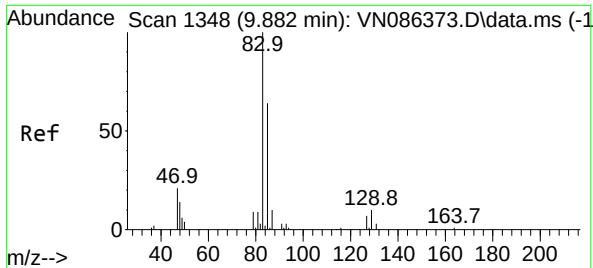
Ion Ratio Lower Upper

93 100

95 83.7 0.0 159.2

174 87.4 0.0 171.4





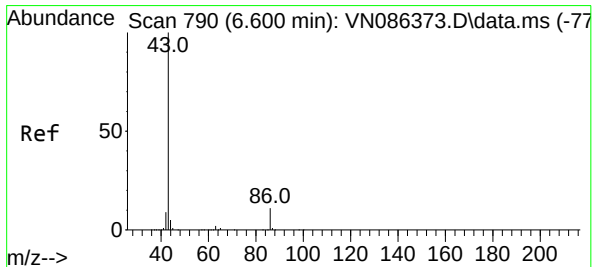
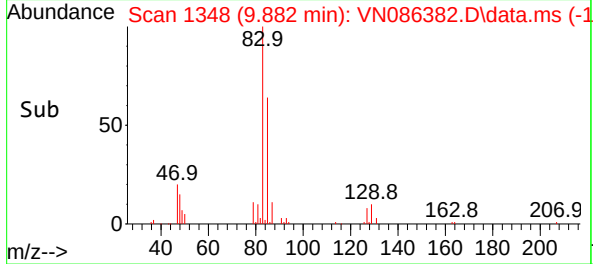
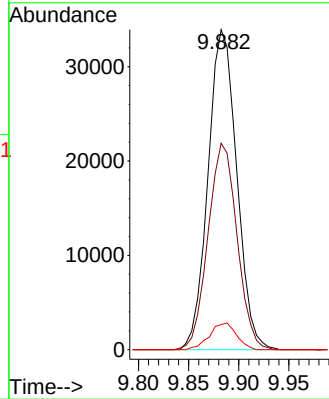
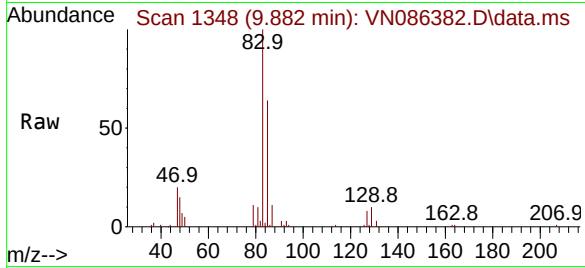
#41
Bromodichloromethane
Concen: 19.825 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Tgt Ion: 83 Resp: 6762
Ion Ratio Lower Upper
83 100
85 64.5 51.1 76.7
127 7.9 5.9 8.9

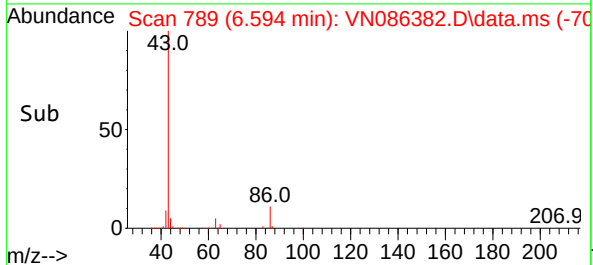
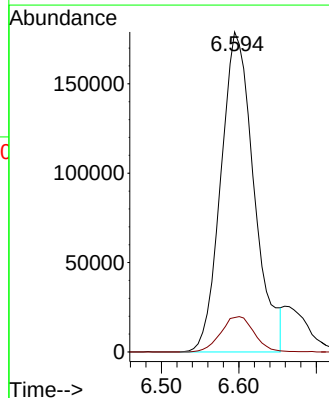
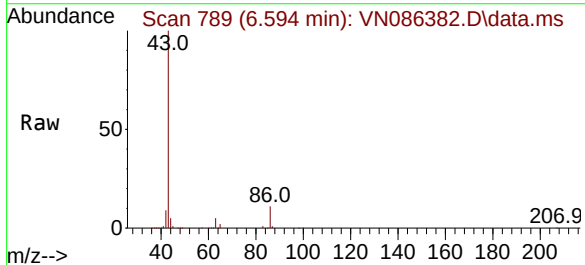
Manual Integrations
APPROVED

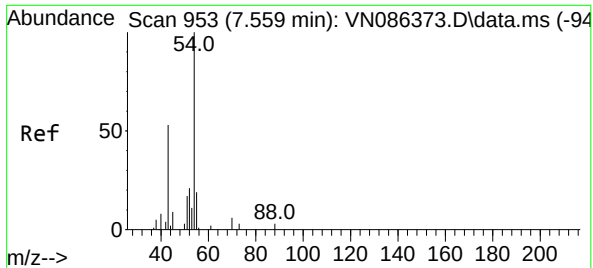
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 103.201 ug/l
RT: 6.594 min Scan# 789
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

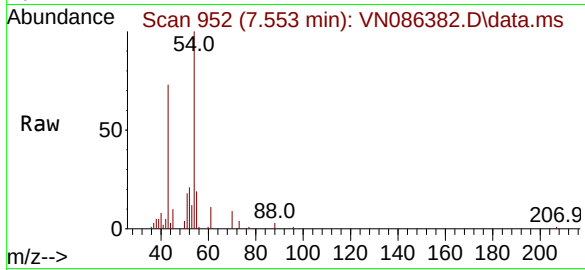
Tgt Ion: 43 Resp: 532279
Ion Ratio Lower Upper
43 100
86 11.2 8.9 13.3





#43
Ethyl Acetate
Concen: 19.802 ug/l m
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

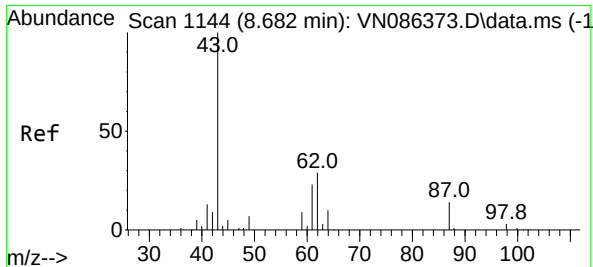
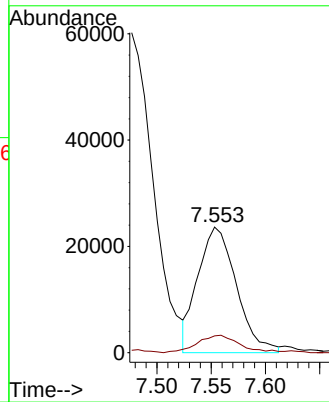
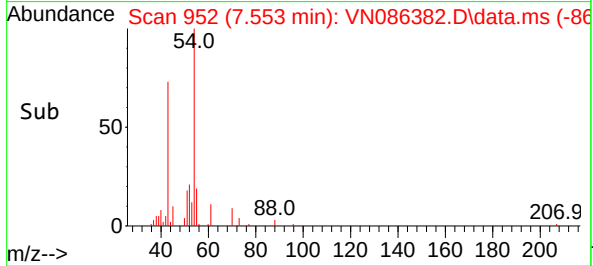
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 43 Resp: 5834
Ion Ratio Lower Upper
43 100
45 15.3 11.4 17.2

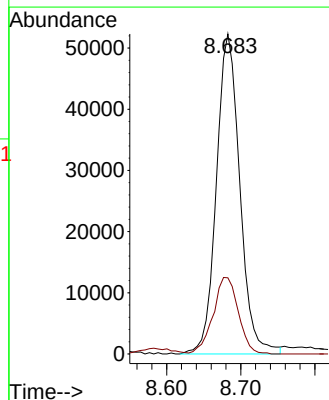
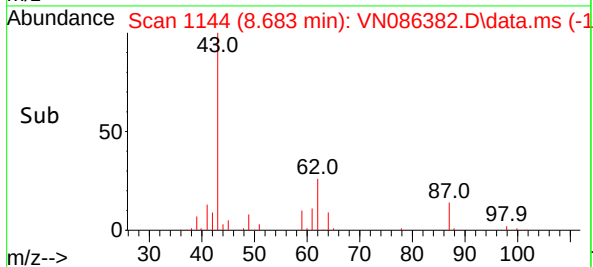
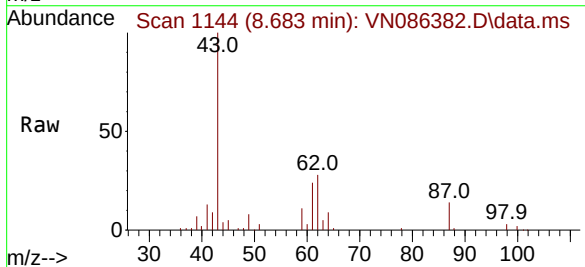
Manual Integrations
APPROVED

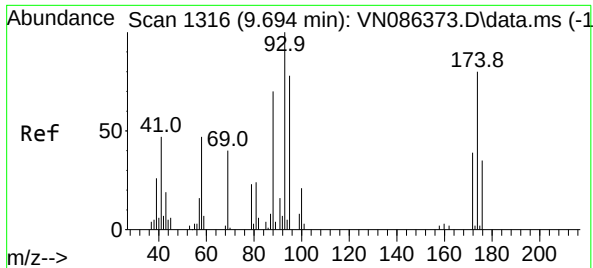
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#44
Isopropyl Acetate
Concen: 20.578 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 43 Resp: 115079
Ion Ratio Lower Upper
43 100
61 25.7 21.0 31.4





#45

1,4-Dioxane

Concen: 385.290 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 88 Resp: 1681

Ion Ratio Lower Upper

88 100

43 29.7 24.9 37.3

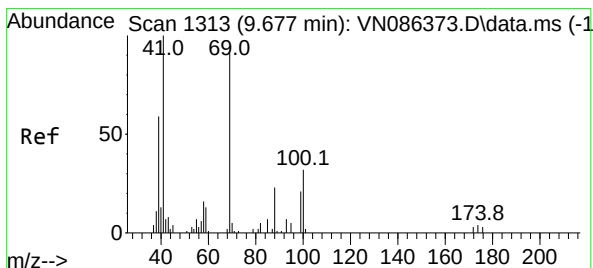
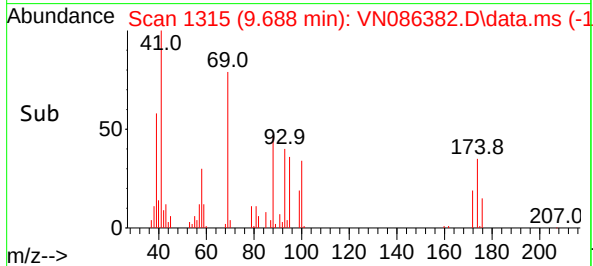
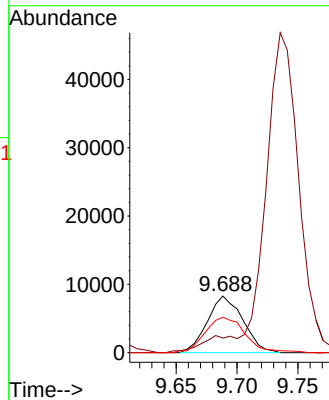
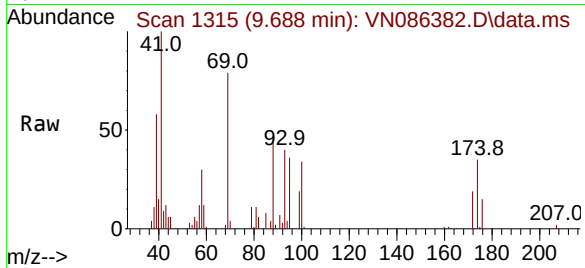
58 71.0 57.8 86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 20.399 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

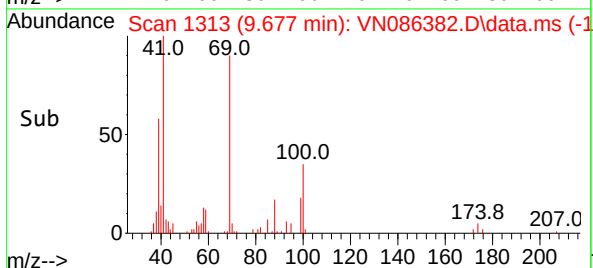
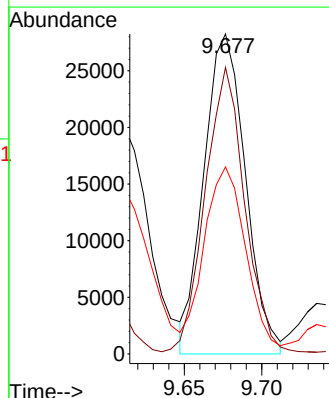
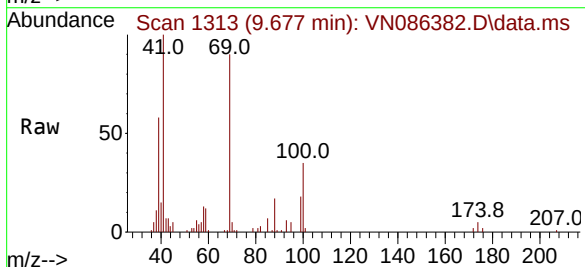
Tgt Ion: 41 Resp: 52620

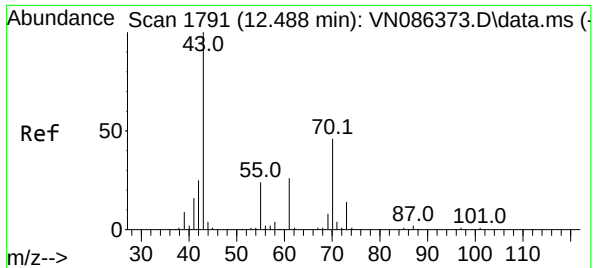
Ion Ratio Lower Upper

41 100

69 90.9 44.1 132.3

39 58.1 30.0 90.1





#47

n-amy1 Acetate

Concen: 19.540 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 43 Resp: 9313

Ion Ratio Lower Upper

43 100

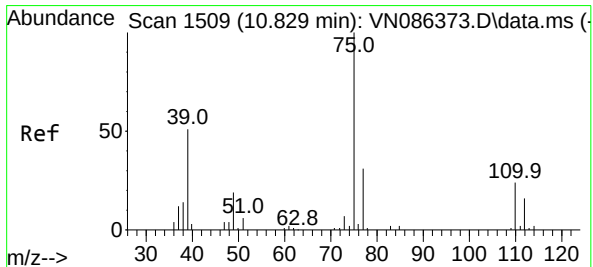
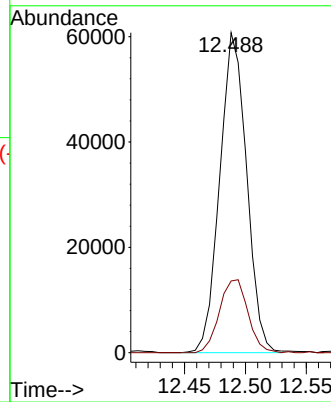
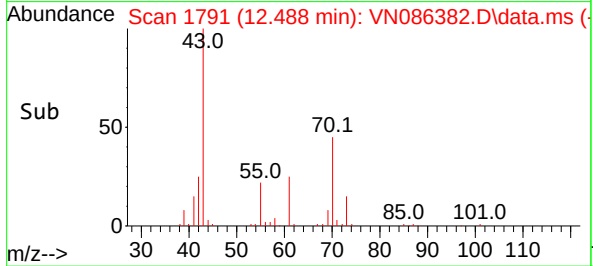
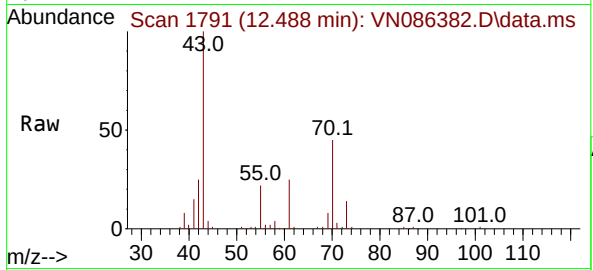
55 24.2 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#48

t-1,3-Dichloropropene

Concen: 19.605 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN086382.D

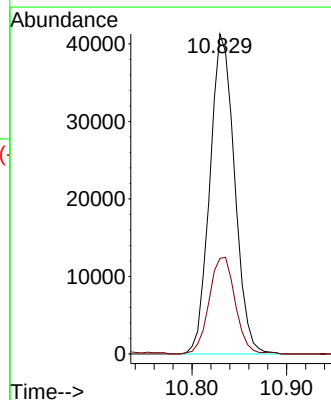
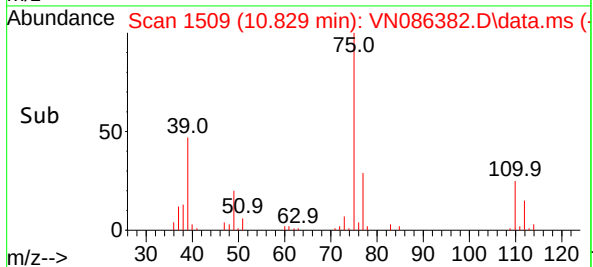
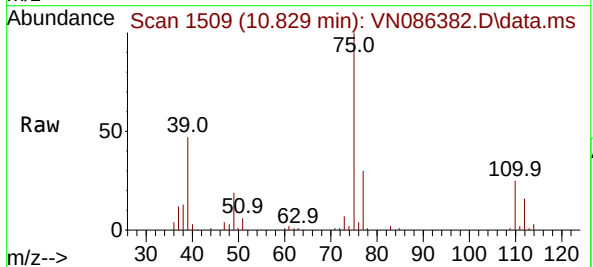
Acq: 23 Apr 2025 15:02

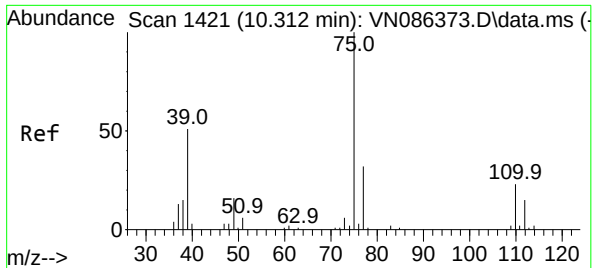
Tgt Ion: 75 Resp: 74764

Ion Ratio Lower Upper

75 100

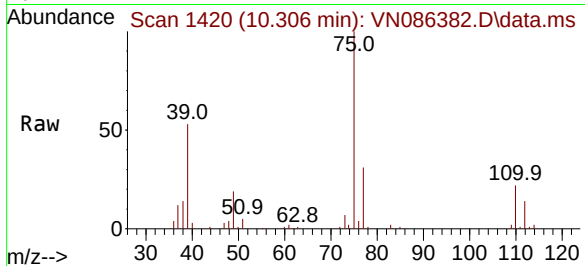
77 29.9 24.4 36.6





#49
cis-1,3-Dichloropropene
Concen: 19.915 ug/l
RT: 10.306 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

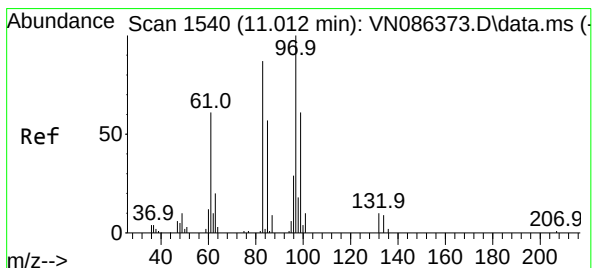
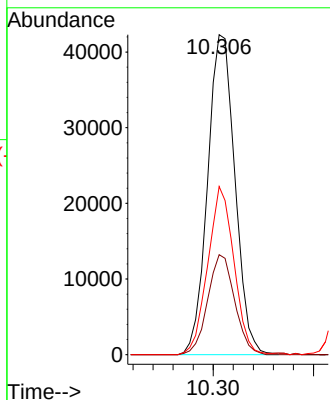
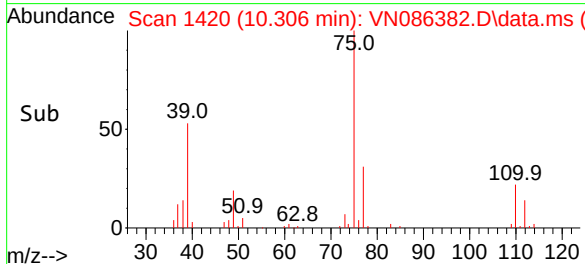
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 75 Resp: 80090
Ion Ratio Lower Upper
75 100
77 31.3 25.6 38.4
39 52.5 40.6 60.8

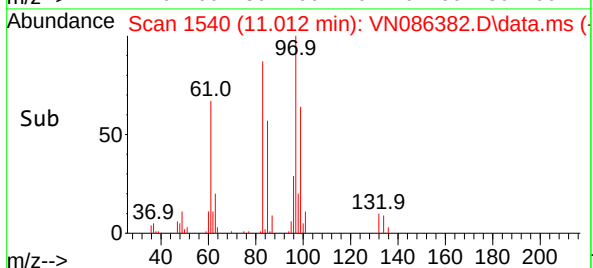
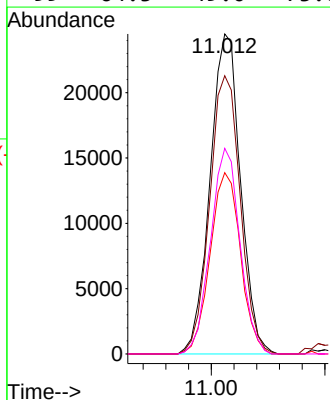
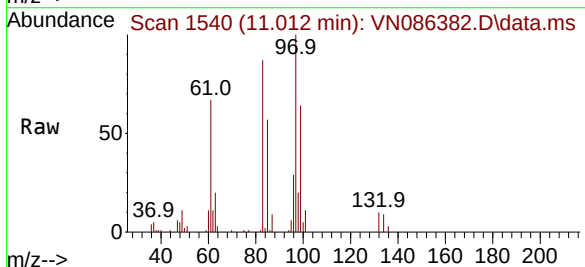
Manual Integrations
APPROVED

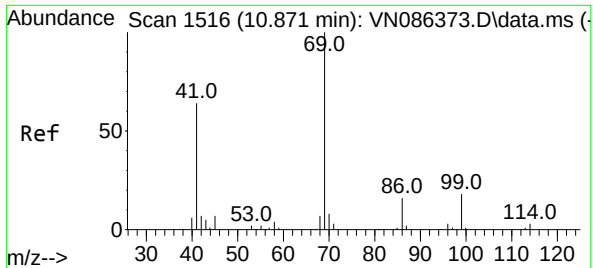
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#50
1,1,2-Trichloroethane
Concen: 20.251 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

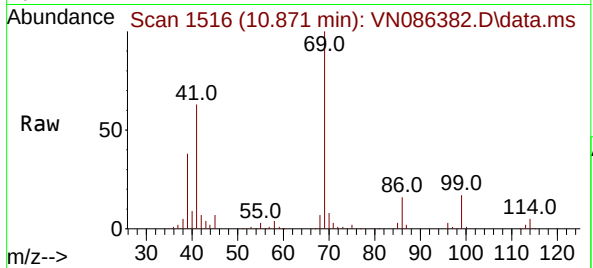
Tgt Ion: 97 Resp: 45595
Ion Ratio Lower Upper
97 100
83 87.0 69.3 103.9
85 56.6 45.5 68.3
99 64.3 49.0 73.6





#51
Ethyl methacrylate
Concen: 19.996 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

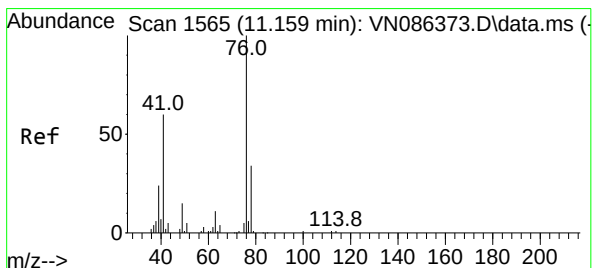
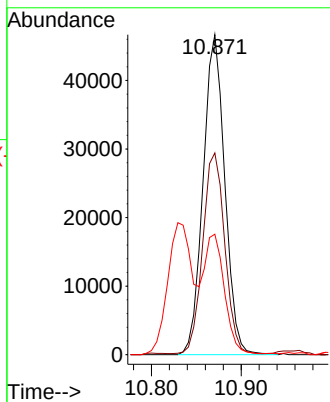
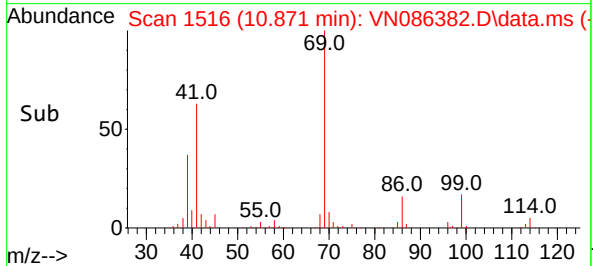
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 69 Resp: 78410
Ion Ratio Lower Upper
69 100
41 62.6 32.3 96.8
39 37.3 19.1 57.1

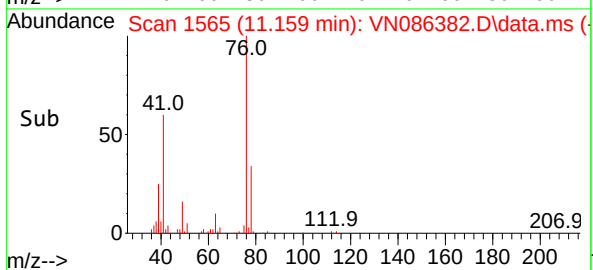
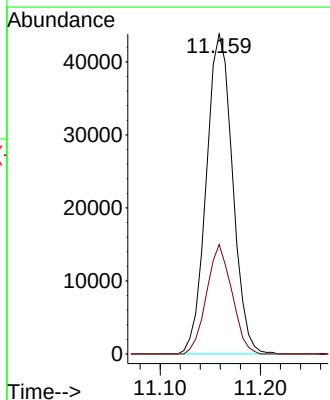
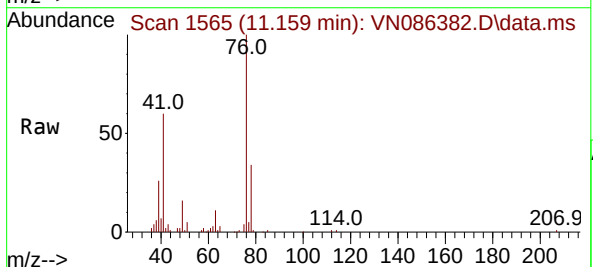
Manual Integrations
APPROVED

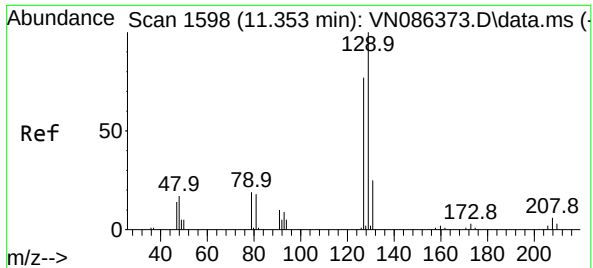
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 20.070 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

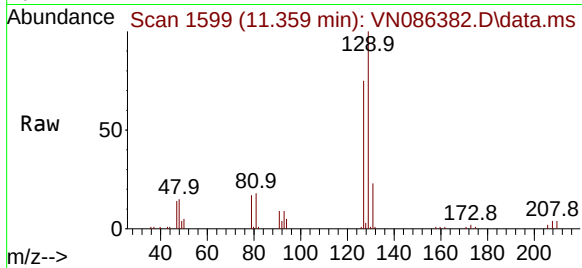
Tgt Ion: 76 Resp: 79865
Ion Ratio Lower Upper
76 100
78 32.9 0.0 65.6





#53
Dibromochloromethane
Concen: 19.572 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

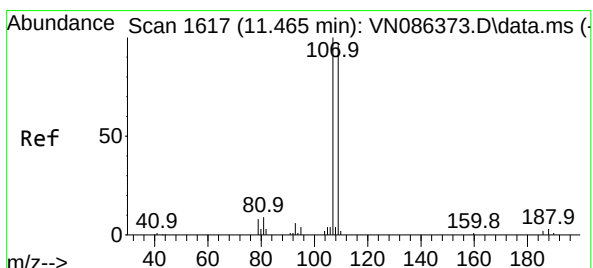
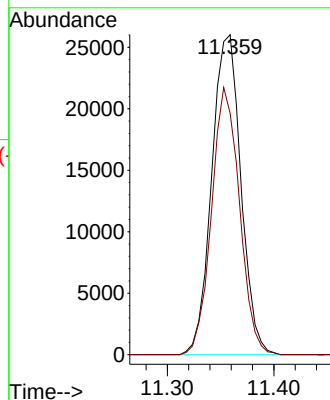
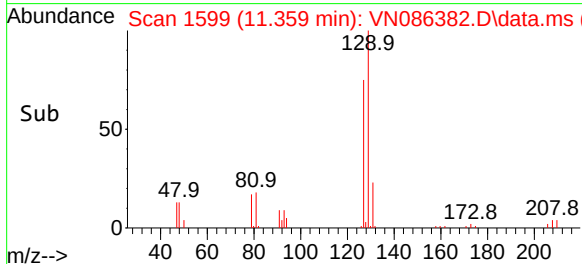
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



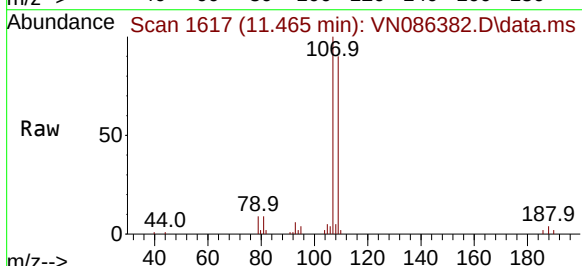
Tgt Ion:129 Resp: 4948
Ion Ratio Lower Upper
129 100
127 79.9 38.8 116.3

Manual Integrations
APPROVED

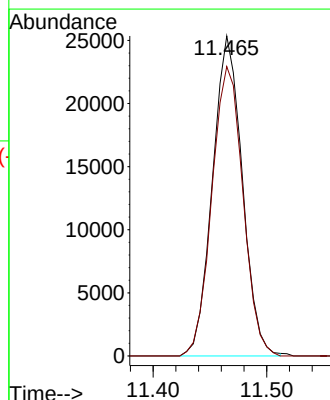
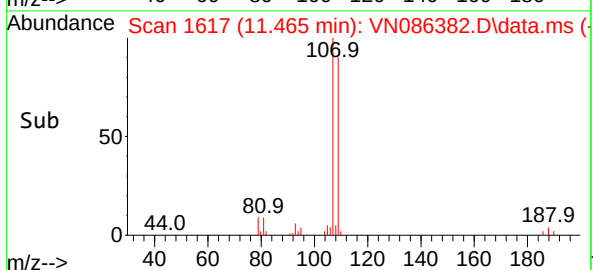
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

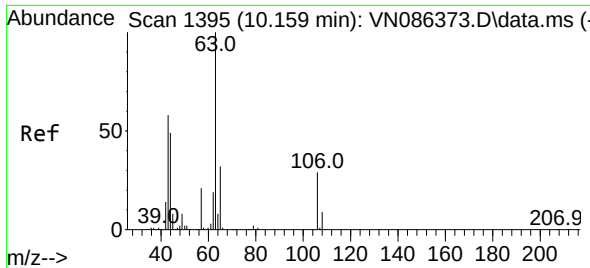


#54
1,2-Dibromoethane
Concen: 20.135 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02



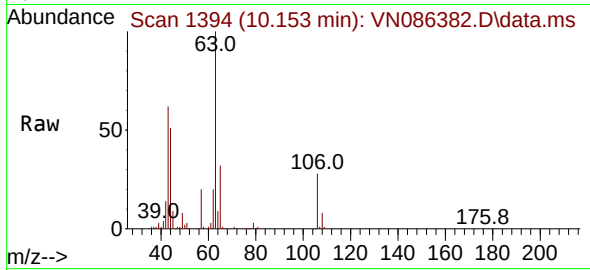
Tgt Ion:107 Resp: 46094
Ion Ratio Lower Upper
107 100
109 94.4 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 94.250 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

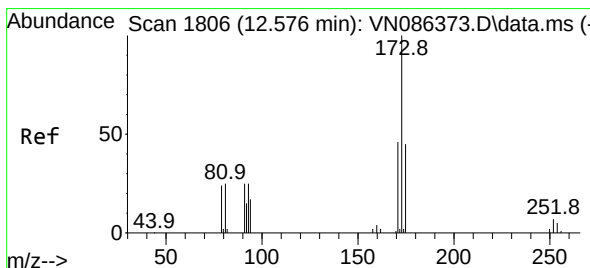
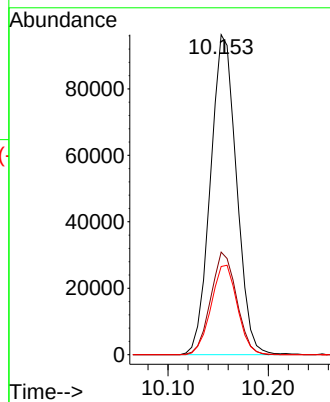
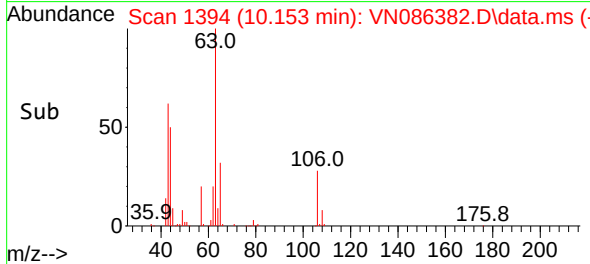
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 63 Resp: 173758
Ion Ratio Lower Upper
63 100
65 31.8 25.7 38.5
106 28.2 22.3 33.5

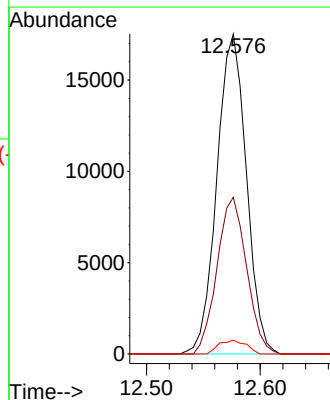
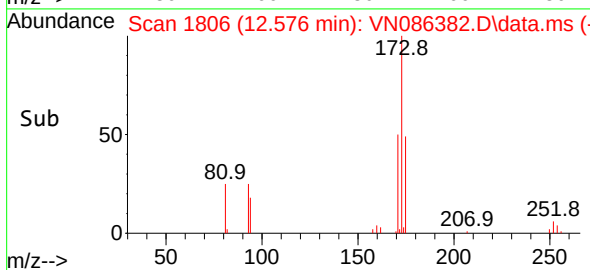
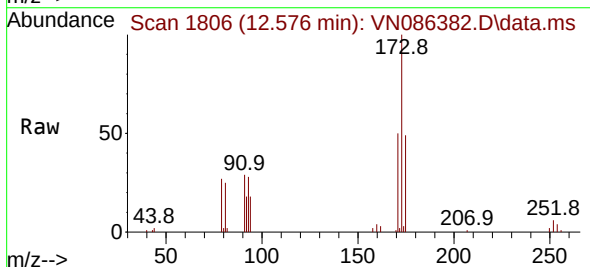
Manual Integrations
APPROVED

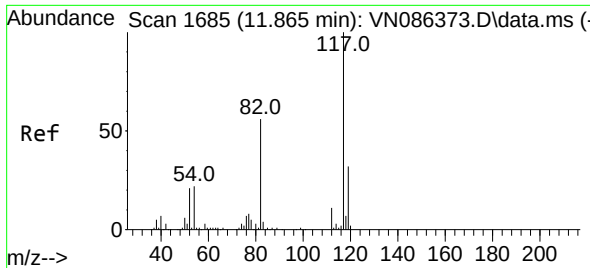
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 19.267 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

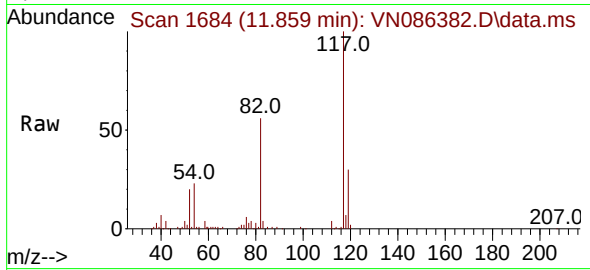
Tgt Ion:173 Resp: 31610
Ion Ratio Lower Upper
173 100
175 49.0 39.0 58.6
254 4.0 3.8 5.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

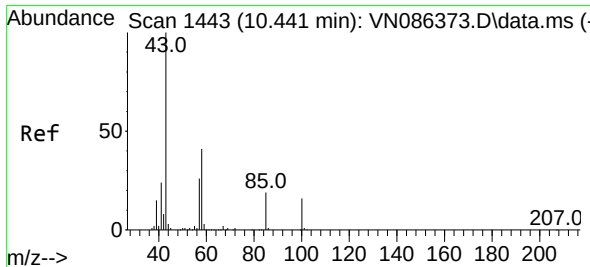
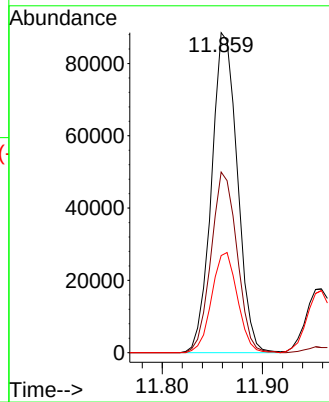
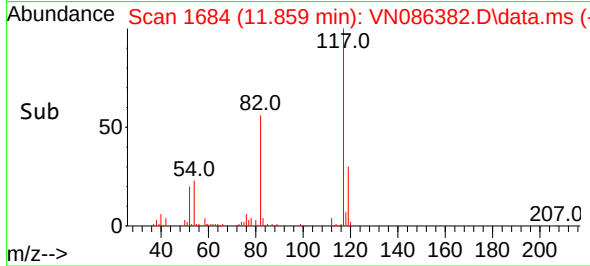
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 117 Resp: 158590
Ion Ratio Lower Upper
117 100
82 56.6 45.5 68.3
119 31.3 25.9 38.9

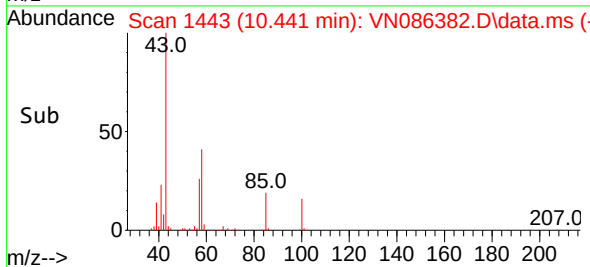
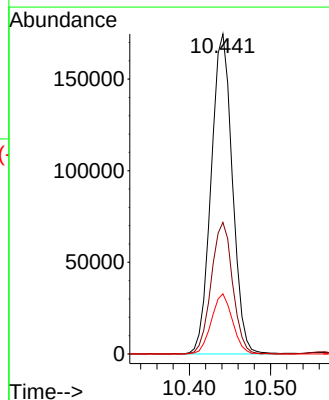
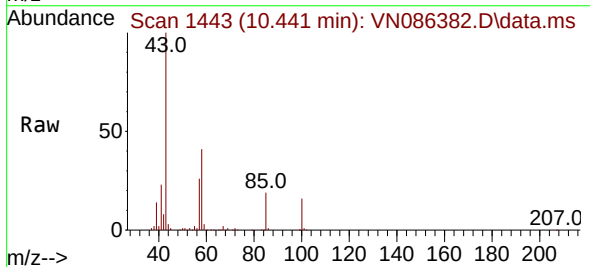
Manual Integrations
APPROVED

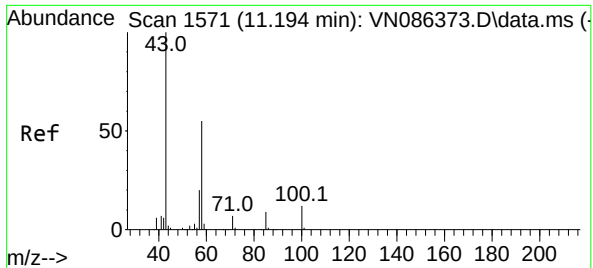
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 103.465 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

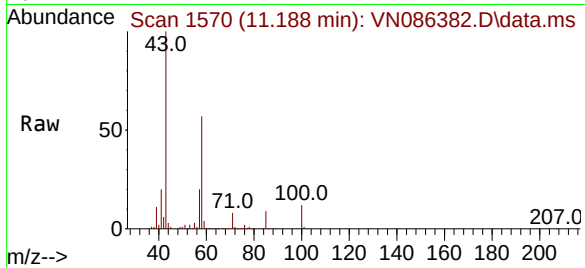
Tgt Ion: 43 Resp: 317539
Ion Ratio Lower Upper
43 100
58 41.4 33.0 49.6
85 18.6 14.9 22.3





#59
2-Hexanone
Concen: 103.670 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

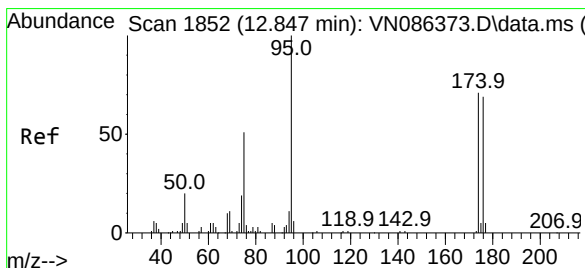
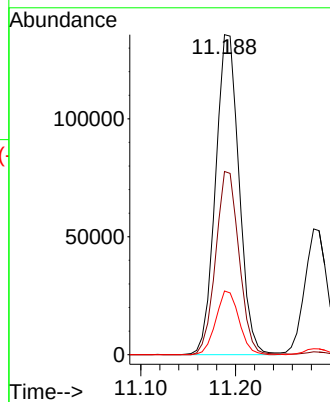
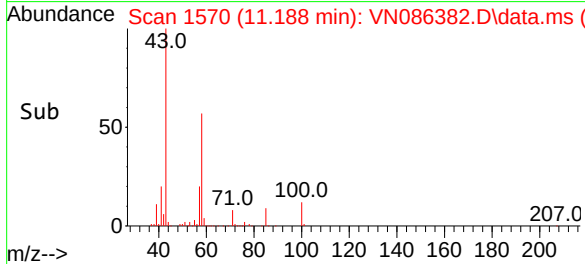
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 43 Resp: 23446
Ion Ratio Lower Upper
43 100
58 56.7 45.0 67.6
57 19.5 15.5 23.3

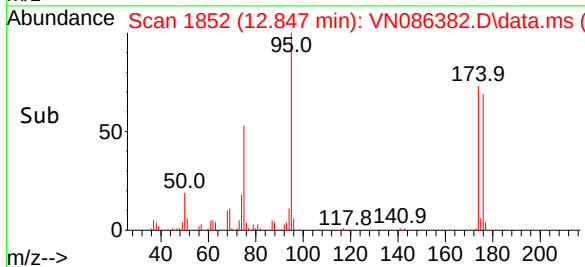
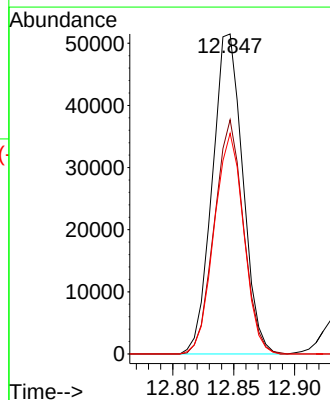
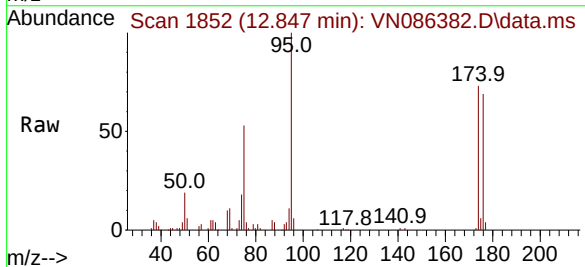
Manual Integrations
APPROVED

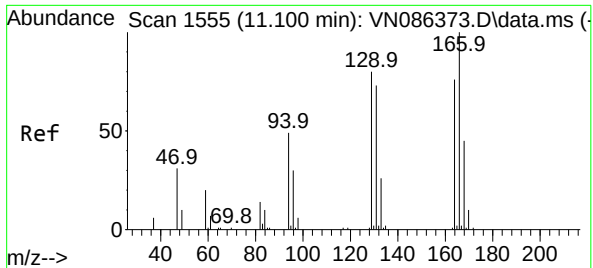
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#60
4-Bromofluorobenzene
Concen: 28.742 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

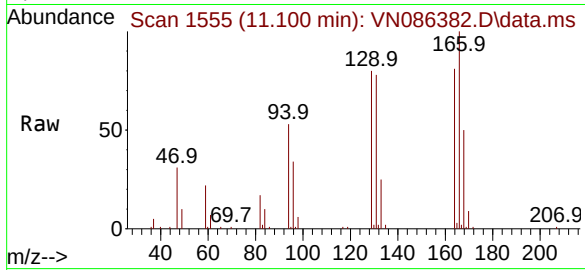
Tgt Ion: 95 Resp: 89590
Ion Ratio Lower Upper
95 100
174 70.1 56.6 84.8
176 66.9 53.3 79.9





#61
Tetrachloroethene
Concen: 19.362 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

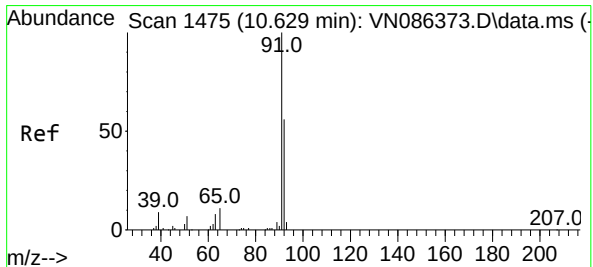
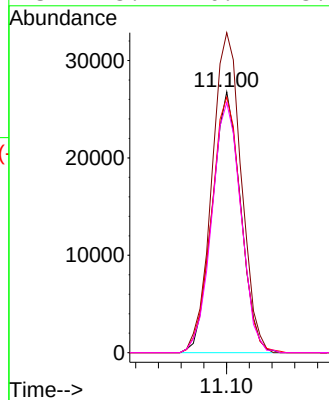
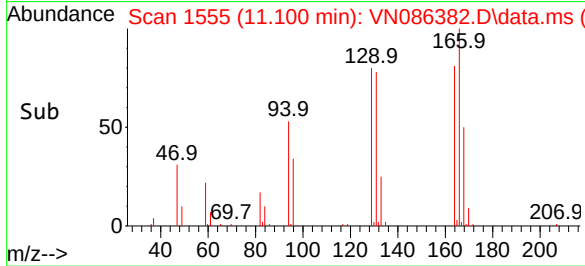
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



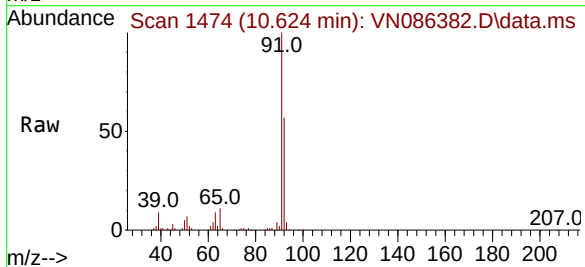
Tgt Ion:164 Resp: 46839
Ion Ratio Lower Upper
164 100
166 122.7 105.0 157.4
129 98.1 83.9 125.9
131 95.9 76.7 115.1

Manual Integrations
APPROVED

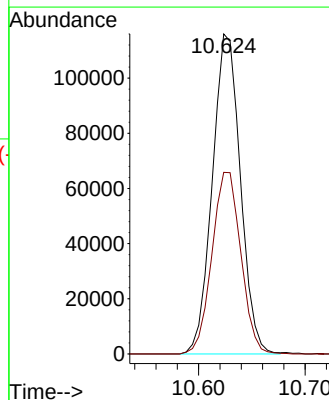
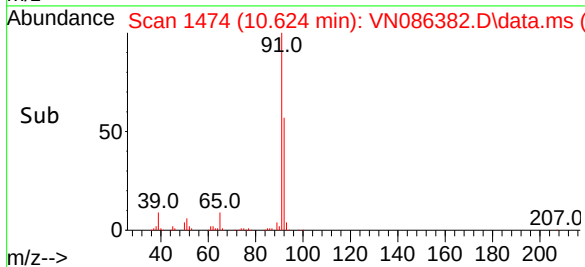
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

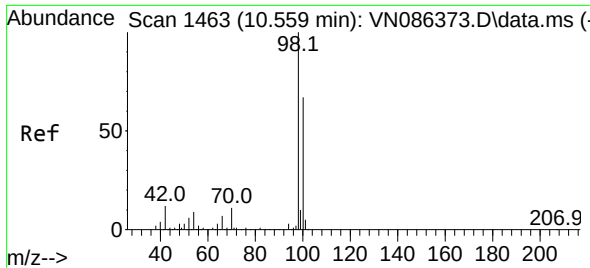


#62
Toluene
Concen: 19.971 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02



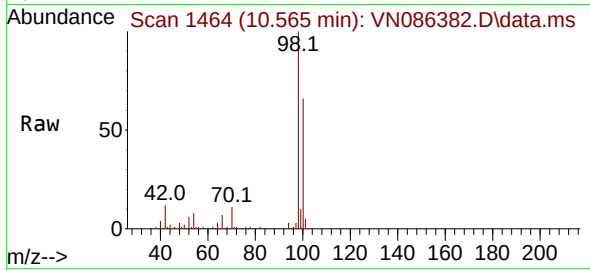
Tgt Ion: 91 Resp: 212008
Ion Ratio Lower Upper
91 100
92 58.5 45.7 68.5





#63
Toluene-d8
Concen: 29.999 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

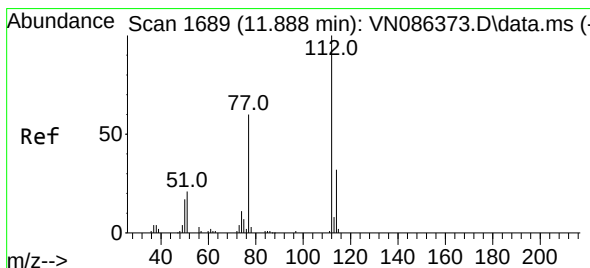
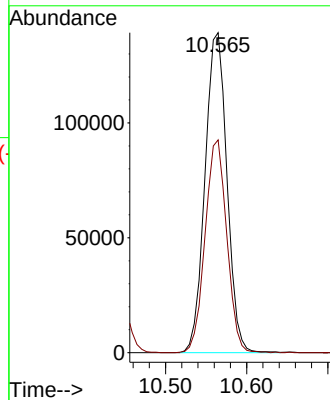
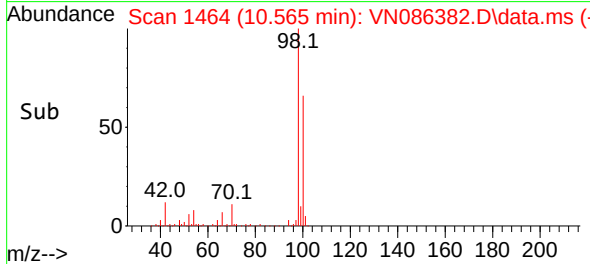
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 98 Resp: 261749
Ion Ratio Lower Upper
98 100
100 65.6 53.1 79.7

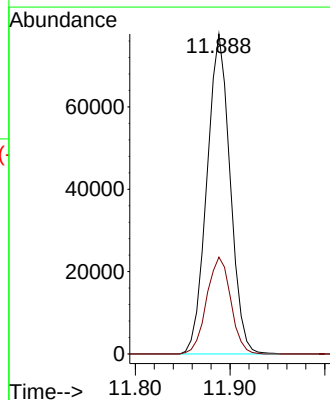
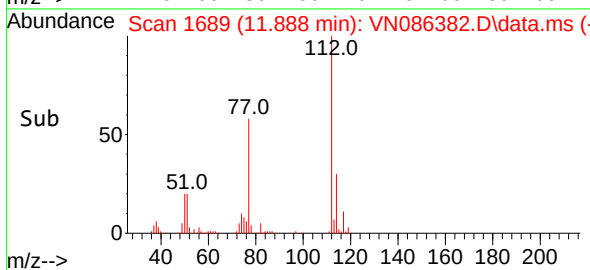
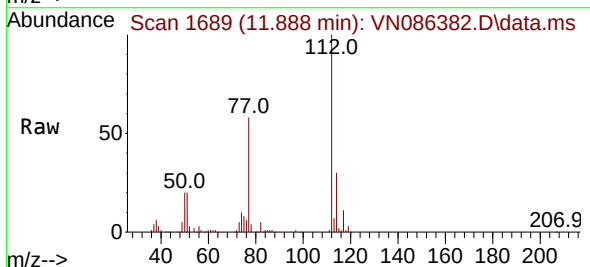
Manual Integrations
APPROVED

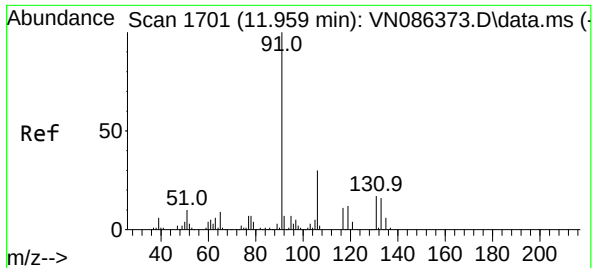
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 19.987 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

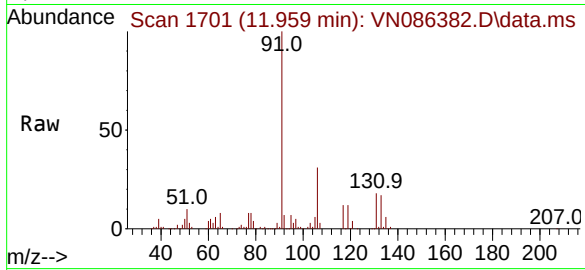
Tgt Ion:112 Resp: 132210
Ion Ratio Lower Upper
112 100
114 30.2 25.6 38.4





#65
1,1,1,2-Tetrachloroethane
Concen: 19.922 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

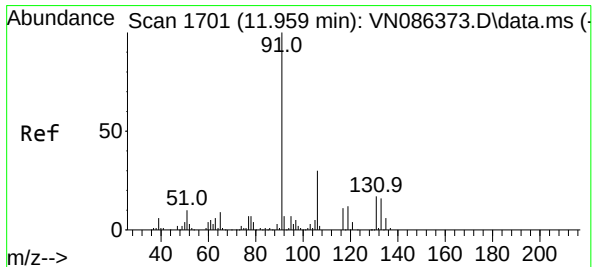
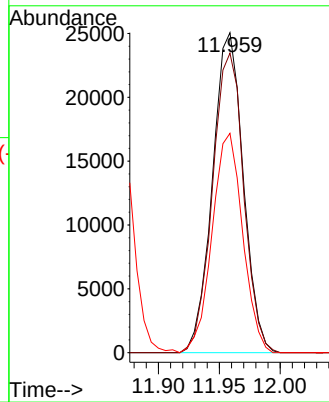
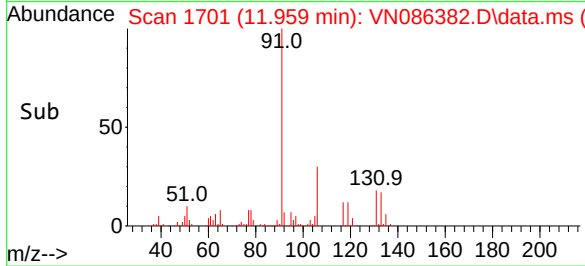
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion:131 Resp: 4406
Ion Ratio Lower Upper
131 100
133 95.1 0.0 191.4
119 68.0 0.0 133.6

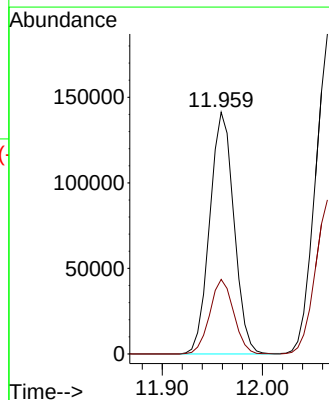
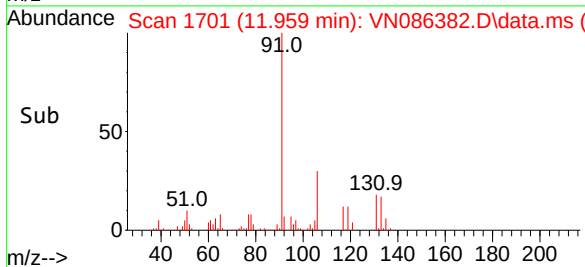
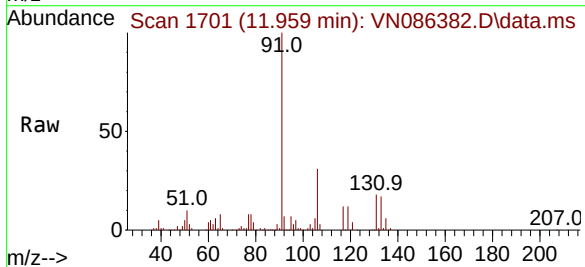
Manual Integrations
APPROVED

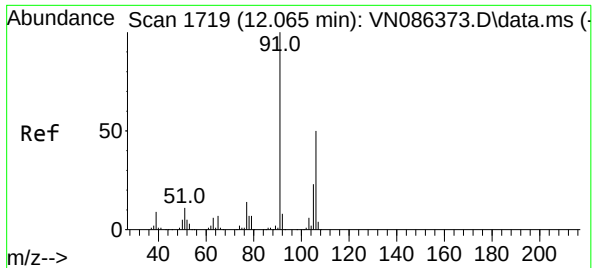
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#66
Ethyl Benzene
Concen: 19.848 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 91 Resp: 237165
Ion Ratio Lower Upper
91 100
106 30.8 24.3 36.5





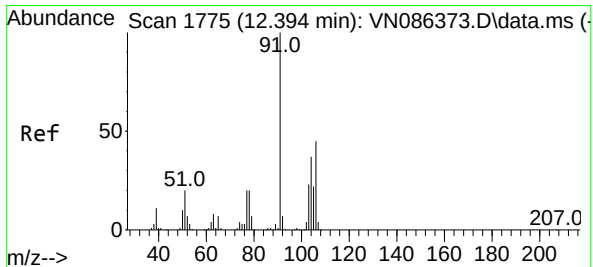
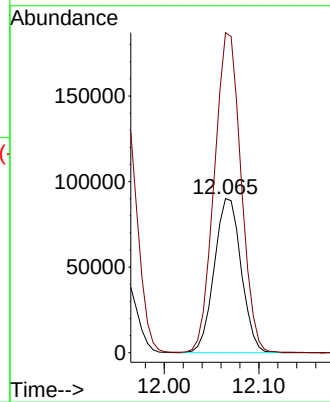
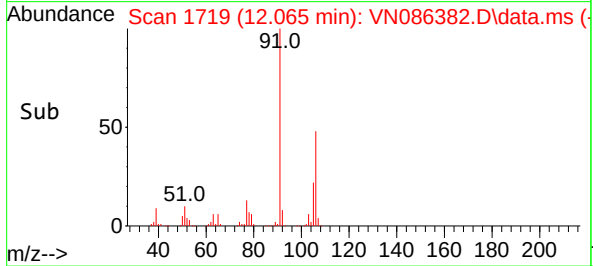
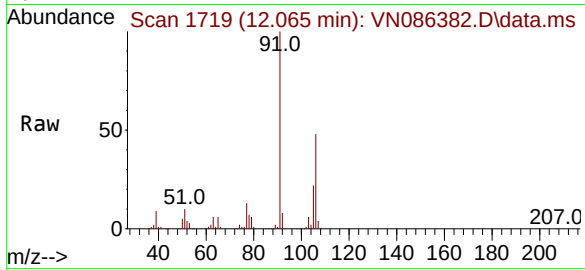
#67
m/p-Xylenes
Concen: 39.224 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Tgt Ion:106 Resp: 17783
Ion Ratio Lower Upper
106 100
91 205.6 162.6 243.8

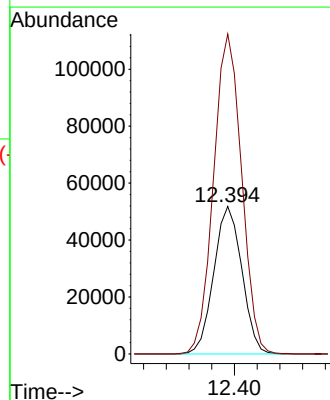
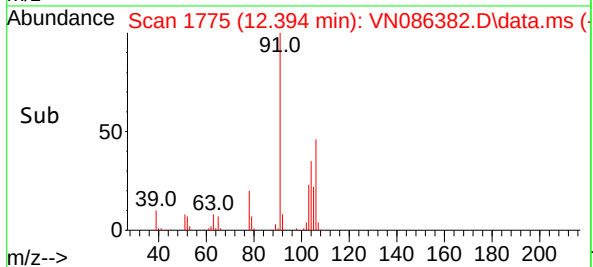
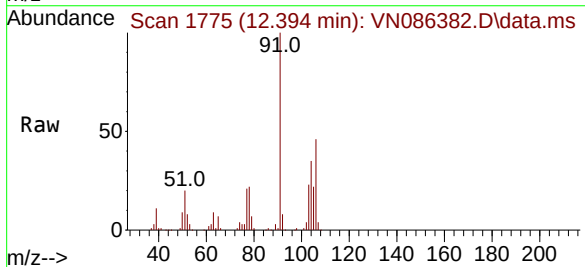
Manual Integrations
APPROVED

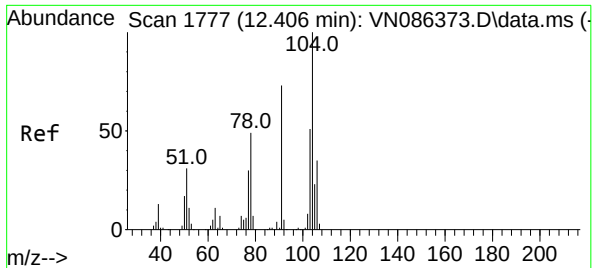
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 20.033 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion:106 Resp: 88931
Ion Ratio Lower Upper
106 100
91 216.9 110.6 331.6





#69

Styrene

Concen: 19.595 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion:104 Resp: 147440

Ion Ratio Lower Upper

104 100

78 49.8 40.2 60.4

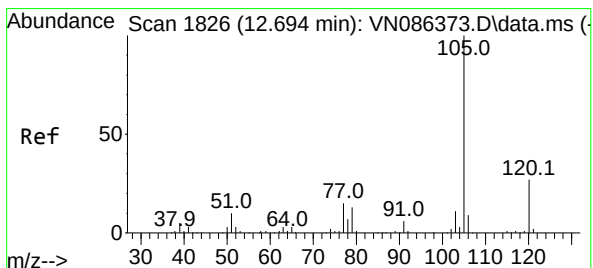
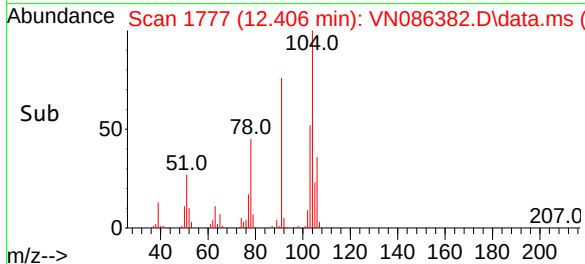
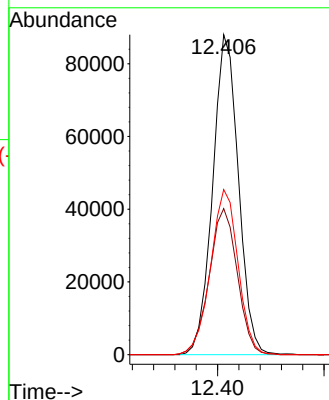
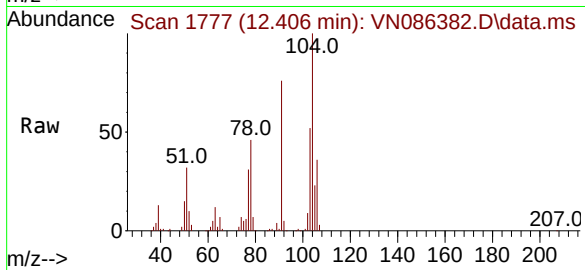
103 55.0 43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#70

Isopropylbenzene

Concen: 19.830 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086382.D

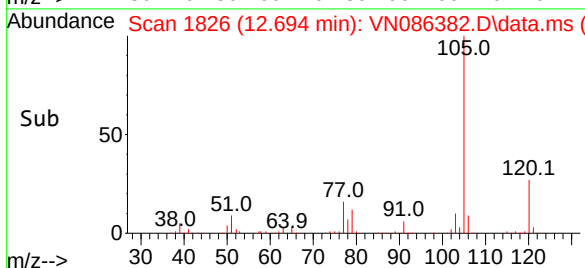
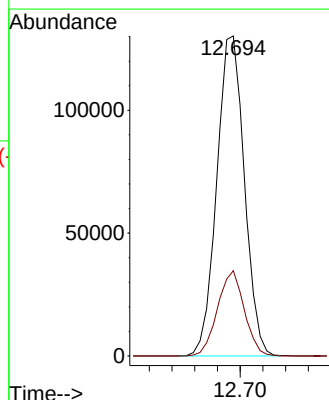
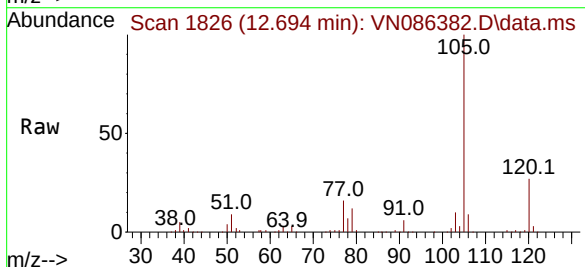
Acq: 23 Apr 2025 15:02

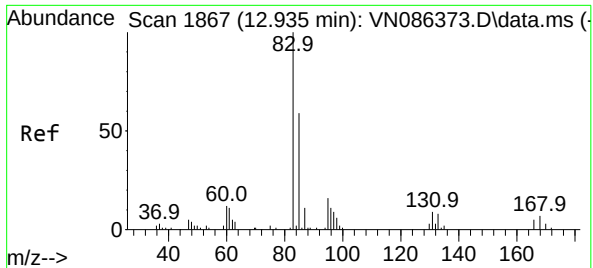
Tgt Ion:105 Resp: 219743

Ion Ratio Lower Upper

105 100

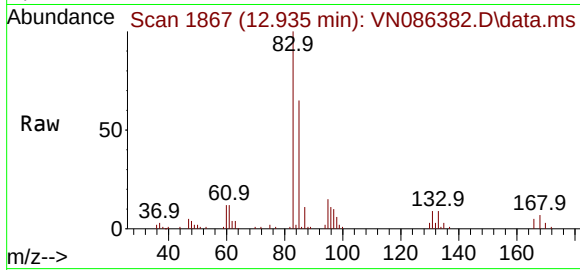
120 25.8 18.2 33.8





#71
1,1,2,2-Tetrachloroethane
Concen: 20.998 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

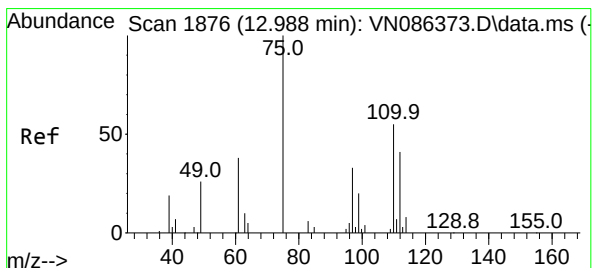
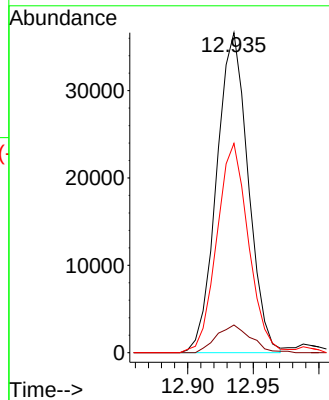
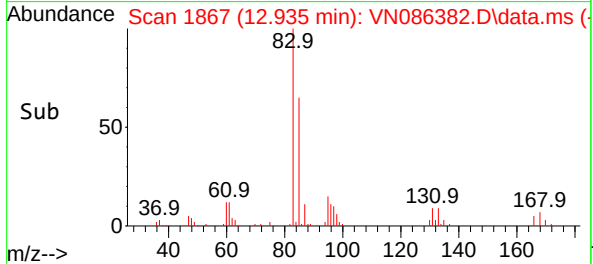
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 83 Resp: 6126
Ion Ratio Lower Upper
83 100
131 9.3 4.5 13.7
85 65.6 31.7 95.1

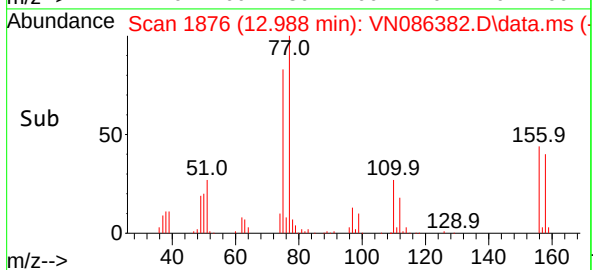
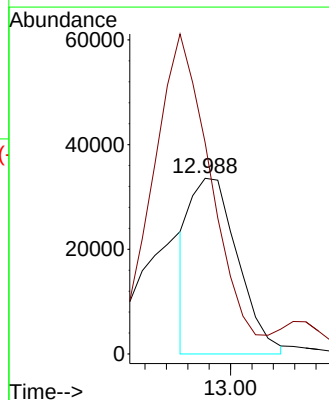
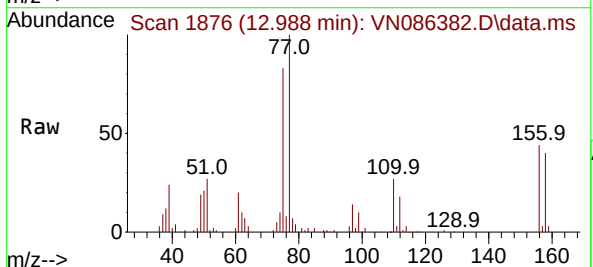
Manual Integrations
APPROVED

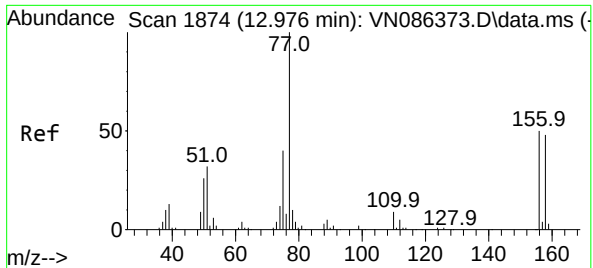
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 20.401 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

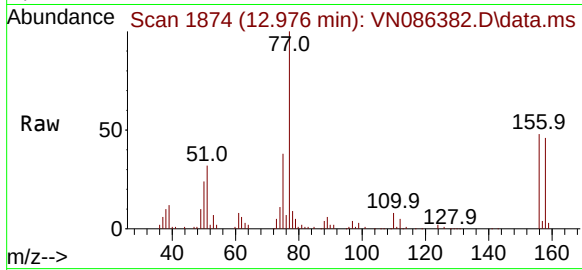
Tgt Ion: 75 Resp: 51896
Ion Ratio Lower Upper
75 100
77 226.9 0.0 464.4





#73
Bromobenzene
Concen: 19.742 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

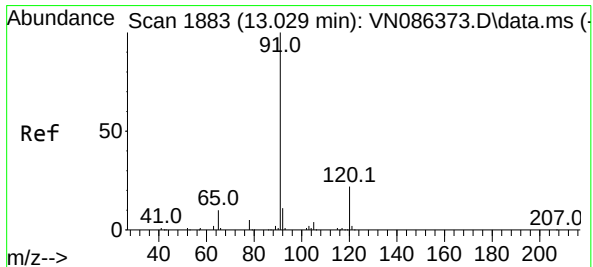
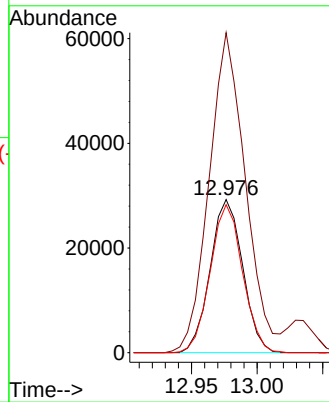
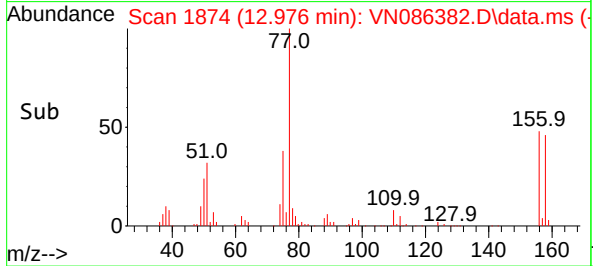
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion:156 Resp: 50295
Ion Ratio Lower Upper
156 100
77 234.1 0.0 463.4
158 96.6 0.0 191.8

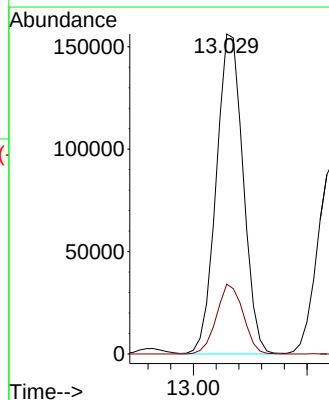
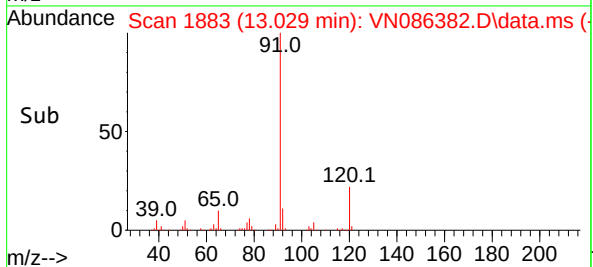
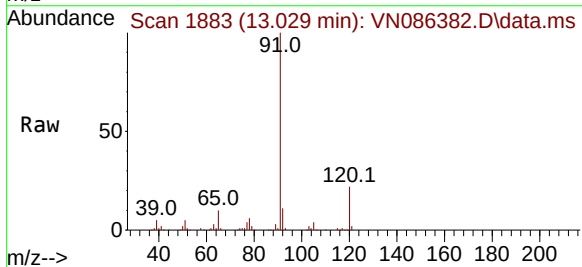
Manual Integrations
APPROVED

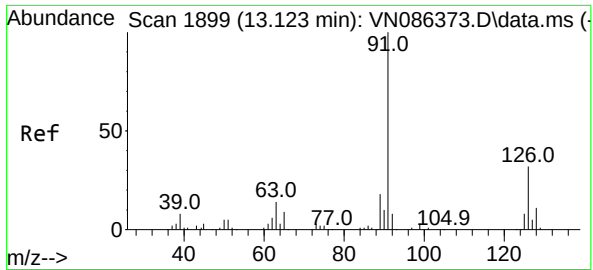
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 19.535 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion: 91 Resp: 257240
Ion Ratio Lower Upper
91 100
120 21.5 0.0 43.8





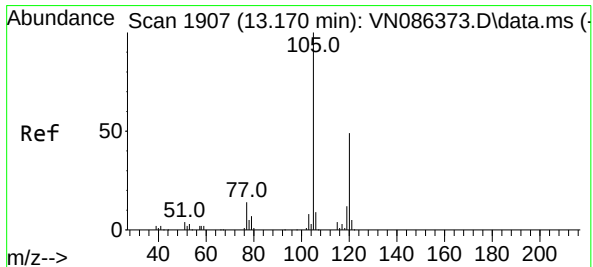
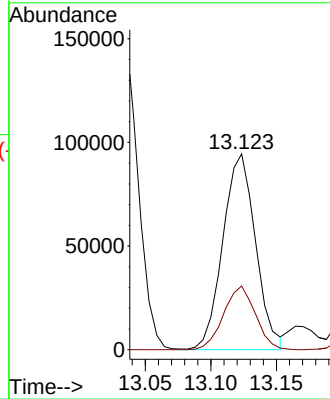
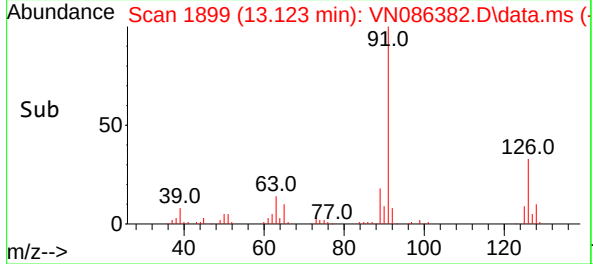
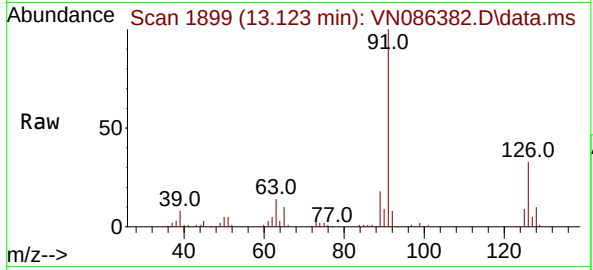
#75
2-Chlorotoluene
Concen: 19.936 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01

Tgt Ion: 91 Resp: 163879
Ion Ratio Lower Upper
91 100
126 31.5 0.0 65.0

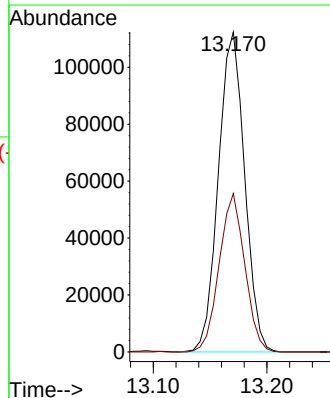
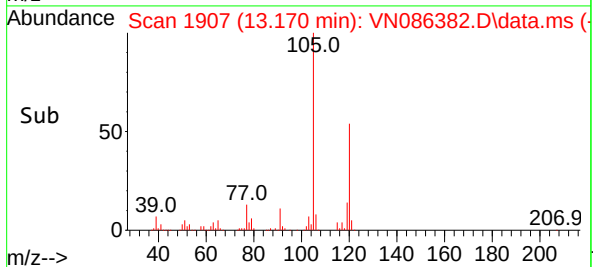
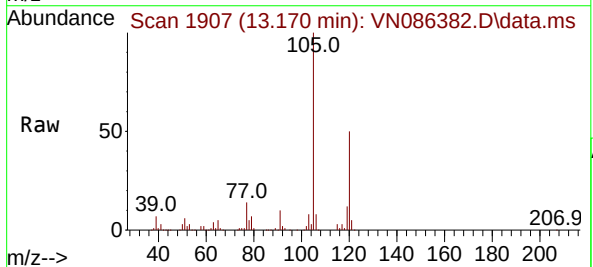
Manual Integrations
APPROVED

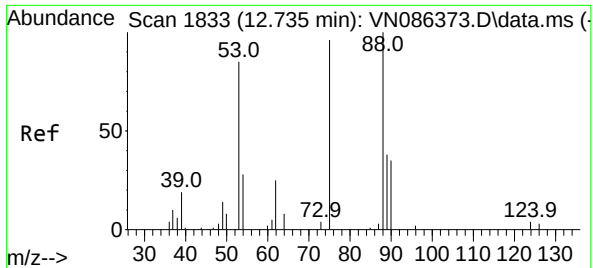
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.849 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

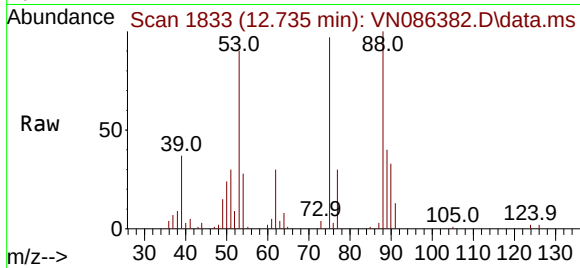
Tgt Ion:105 Resp: 180475
Ion Ratio Lower Upper
105 100
120 48.3 0.0 97.6





#77
t-1,4-Dichloro-2-butene
Concen: 20.403 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

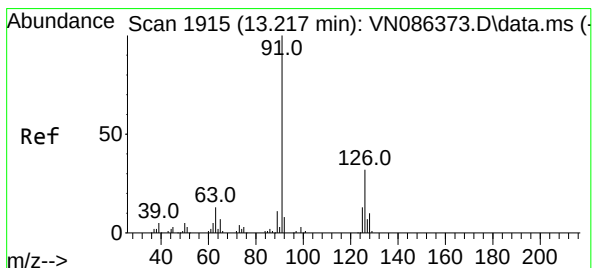
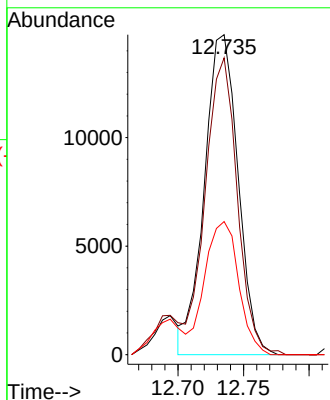
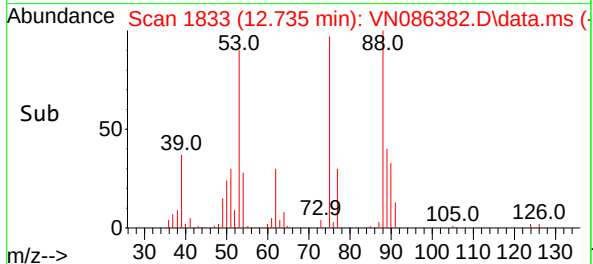
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion: 75 Resp: 2634
Ion Ratio Lower Upper
75 100
53 91.5 46.0 138.0
89 41.6 21.6 64.6

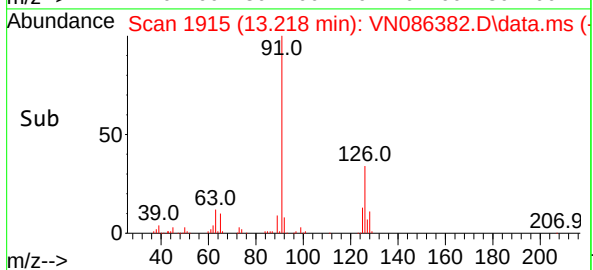
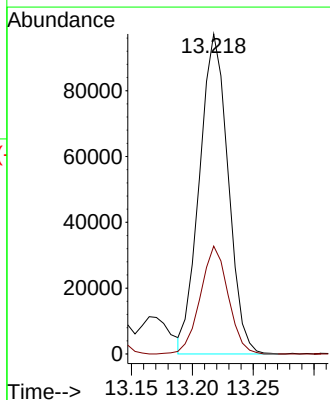
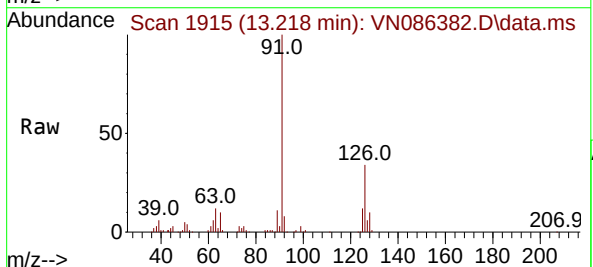
Manual Integrations
APPROVED

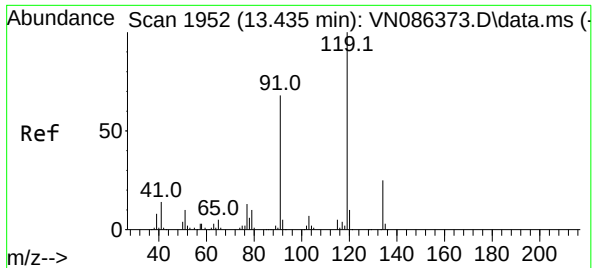
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#78
4-Chlorotoluene
Concen: 19.376 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

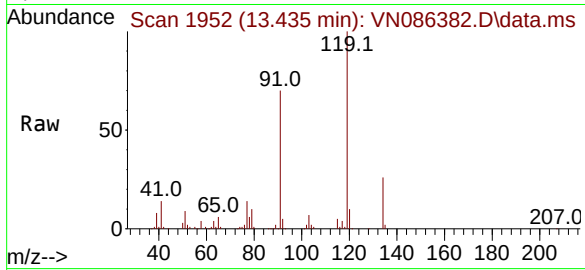
Tgt Ion: 91 Resp: 159258
Ion Ratio Lower Upper
91 100
126 32.7 0.0 65.4





#79
tert-butylbenzene
Concen: 19.690 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

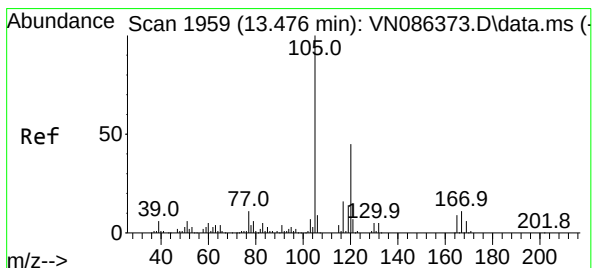
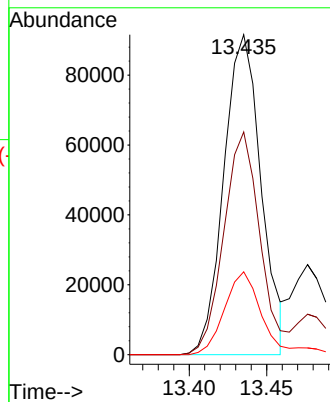
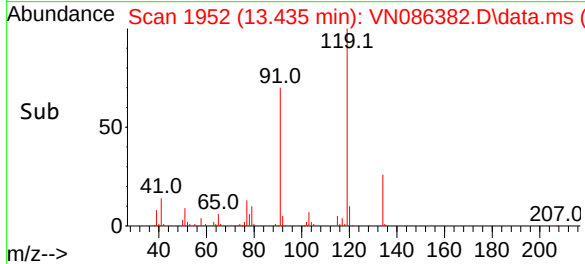
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



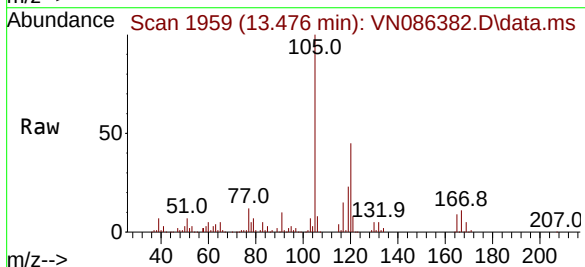
Tgt Ion:119 Resp: 15332
Ion Ratio Lower Upper
119 100
91 68.1 0.0 137.4
134 24.9 0.0 49.2

Manual Integrations
APPROVED

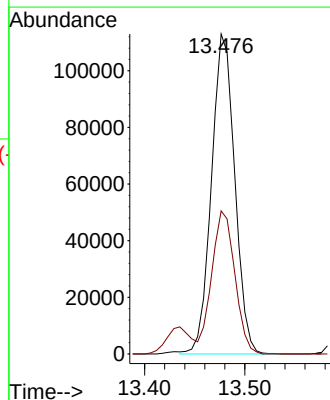
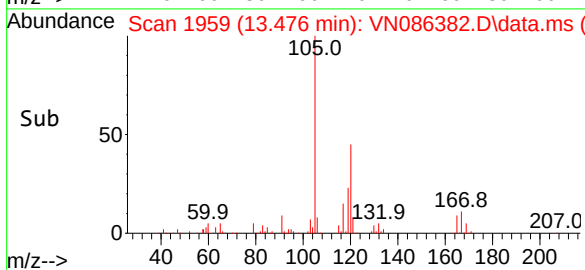
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

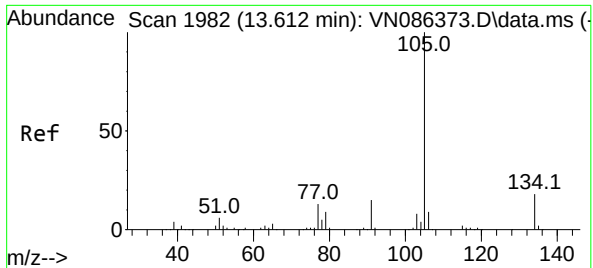


#80
1,2,4-Trimethylbenzene
Concen: 19.565 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02



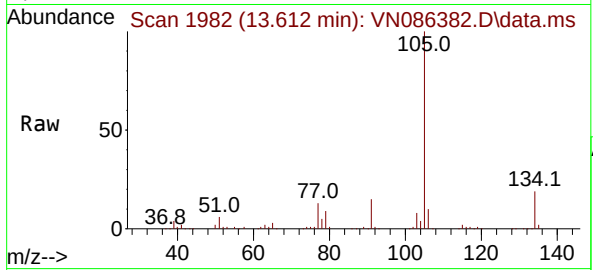
Tgt Ion:105 Resp: 181681
Ion Ratio Lower Upper
105 100
120 44.3 0.0 87.6





#81
 sec-Butylbenzene
 Concen: 19.461 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086382.D
 Acq: 23 Apr 2025 15:02

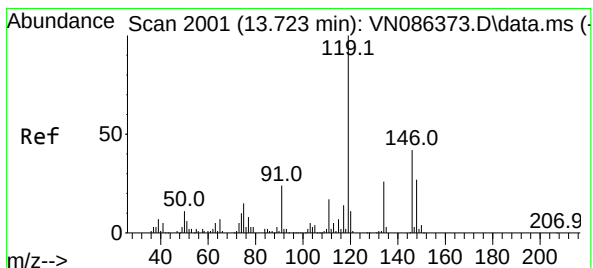
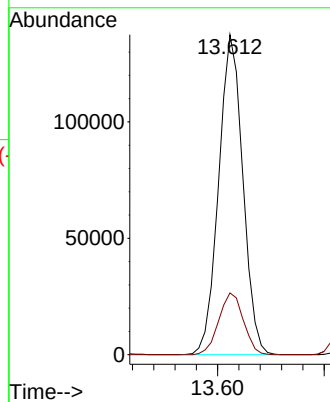
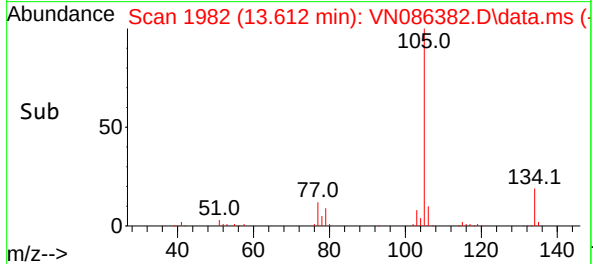
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBS01



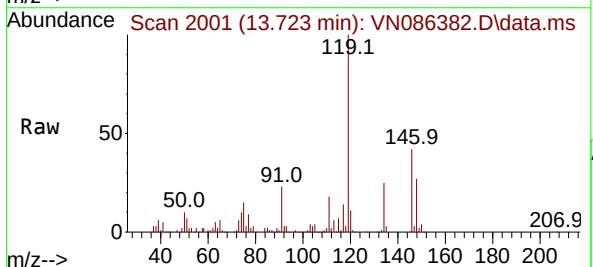
Tgt Ion:105 Resp: 21632
 Ion Ratio Lower Upper
 105 100
 134 19.6 0.0 38.4

Manual Integrations
 APPROVED

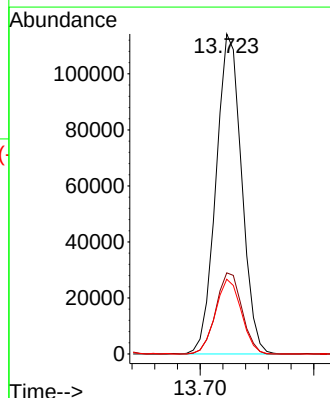
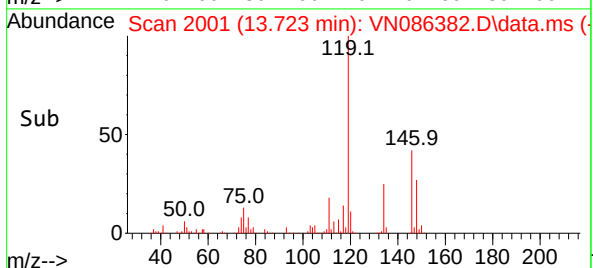
Reviewed By :John Carlone 04/24/2025
 Supervised By :Mahesh Dadoda 04/25/2025

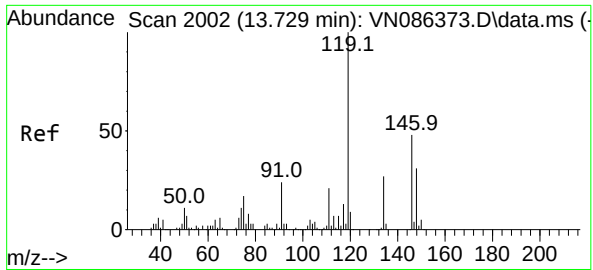


#82
 p-Isopropyltoluene
 Concen: 19.254 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN086382.D
 Acq: 23 Apr 2025 15:02



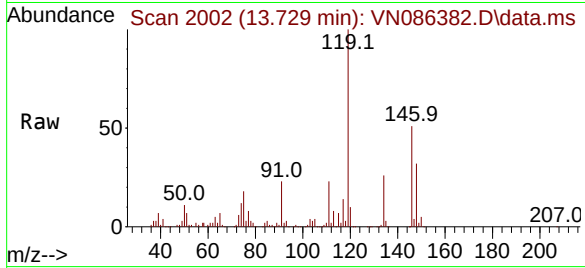
Tgt Ion:119 Resp: 179090
 Ion Ratio Lower Upper
 119 100
 134 25.8 0.0 52.2
 91 23.7 0.0 47.6





#83
1,3-Dichlorobenzene
Concen: 19.334 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

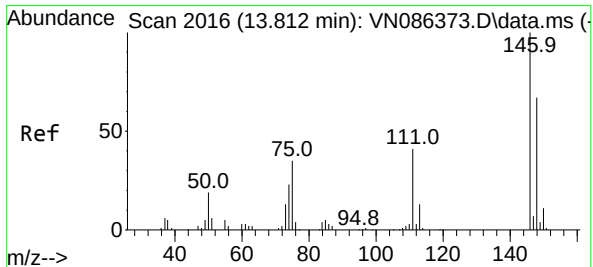
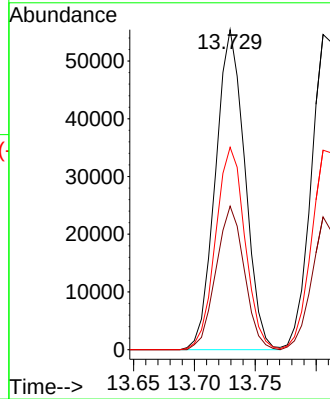
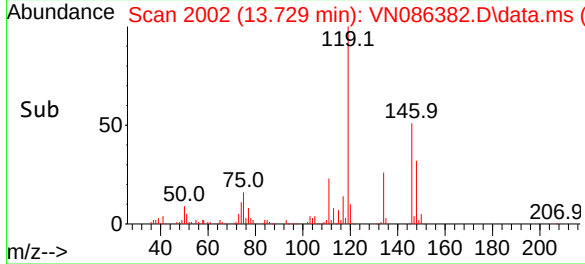
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



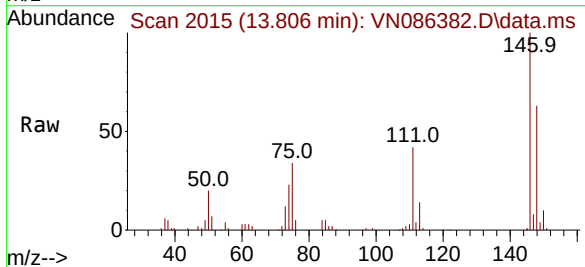
Tgt Ion:146 Resp: 93109
Ion Ratio Lower Upper
146 100
111 43.2 20.7 62.1
148 63.3 32.3 96.8

Manual Integrations
APPROVED

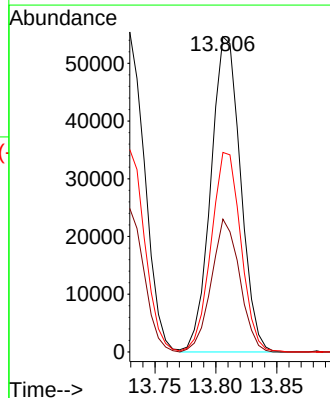
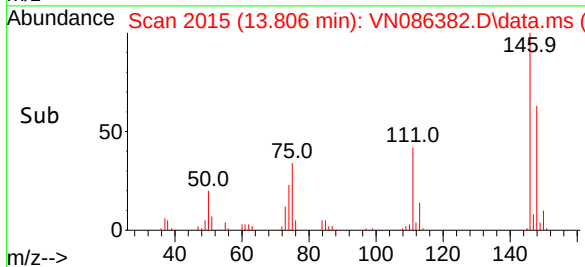
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

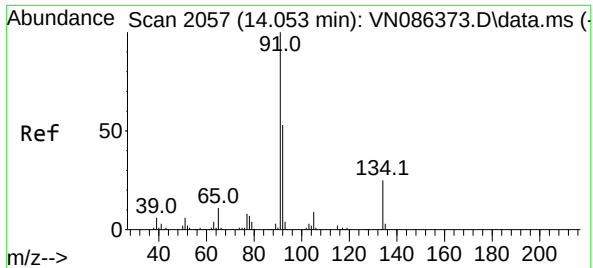


#84
1,4-Dichlorobenzene
Concen: 19.475 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02



Tgt Ion:146 Resp: 92663
Ion Ratio Lower Upper
146 100
111 40.3 20.3 60.8
148 63.5 32.4 97.2





#85

n-Butylbenzene

Concen: 18.701 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

Tgt Ion: 91 Resp: 15520

Ion Ratio Lower Upper

91 100

92 53.7 0.0 107.2

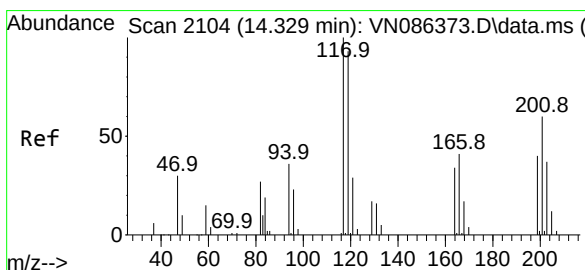
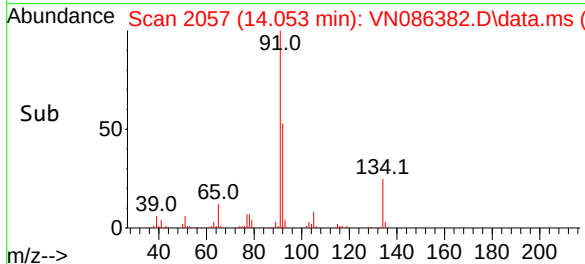
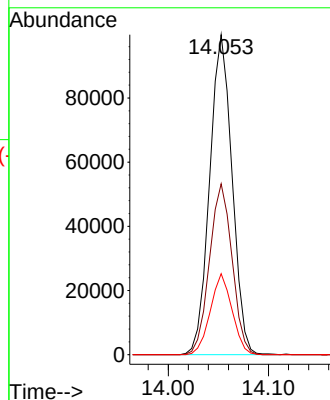
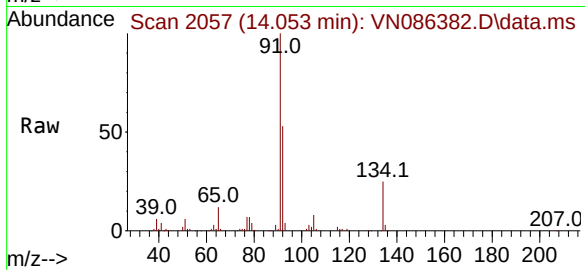
134 24.5 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#86

Hexachloroethane

Concen: 19.592 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN086382.D

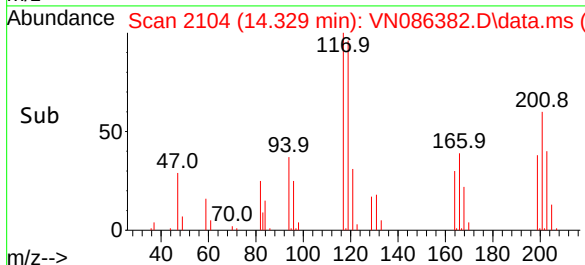
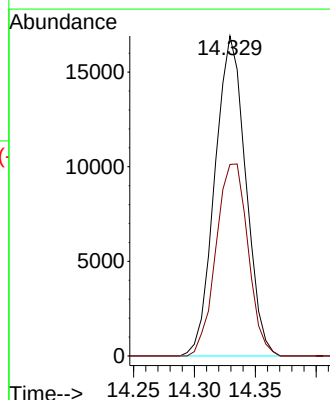
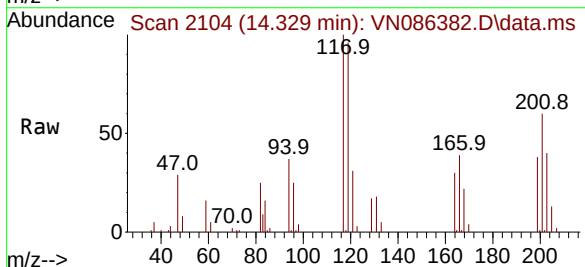
Acq: 23 Apr 2025 15:02

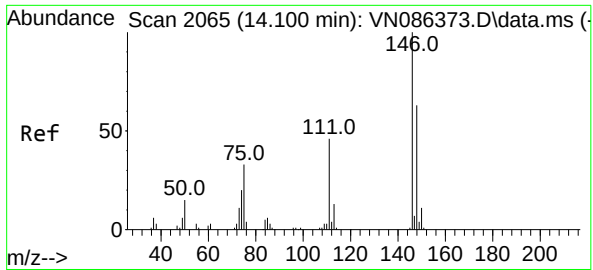
Tgt Ion:117 Resp: 29798

Ion Ratio Lower Upper

117 100

201 62.3 31.7 95.1





#87

1,2-Dichlorobenzene

Concen: 20.112 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

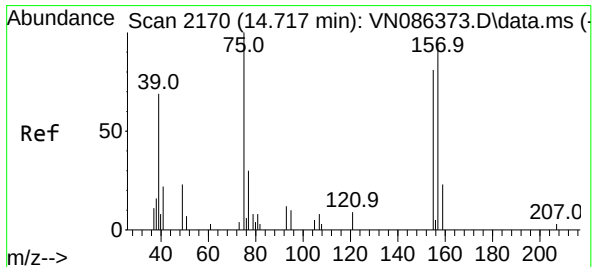
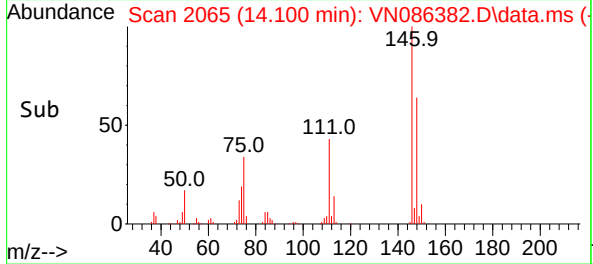
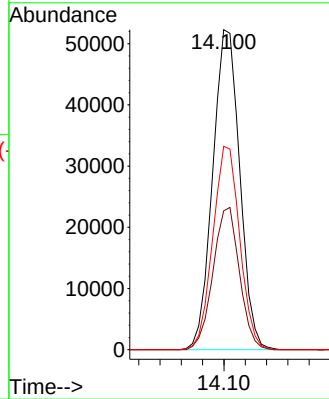
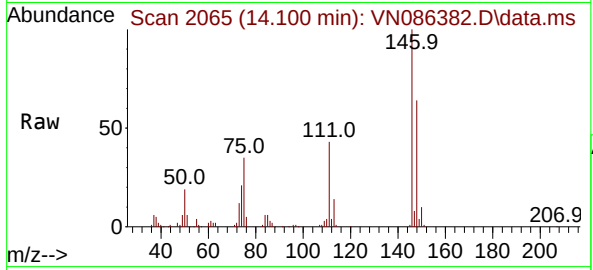
Tgt Ion:	146	Resp:	9215
Ion Ratio	Lower	Upper	
146	100		
111	43.5	22.1	66.3
148	63.3	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.989 ug/l

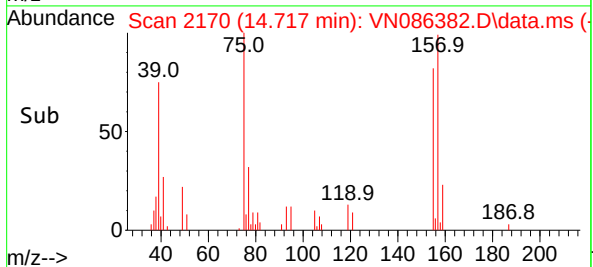
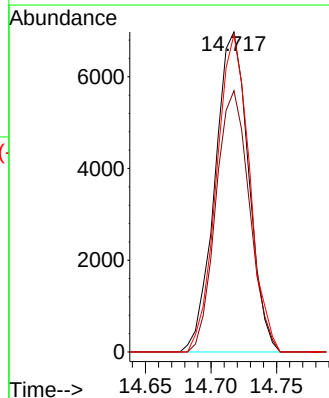
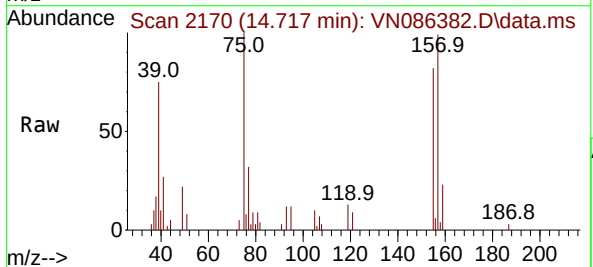
RT: 14.717 min Scan# 2170

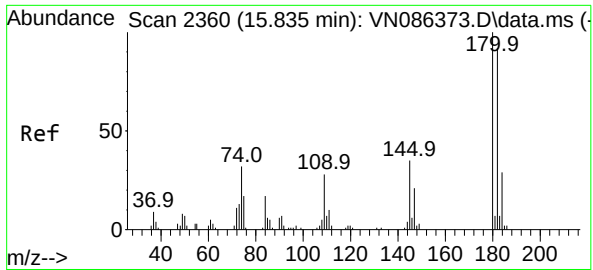
Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Tgt Ion:	75	Resp:	12448
Ion Ratio	Lower	Upper	
75	100		
155	81.4	64.0	96.0
157	96.8	78.2	117.4





#89

1,2,4-Trichlorobenzene

Concen: 19.734 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBS01

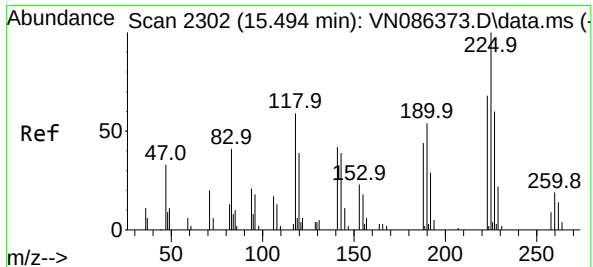
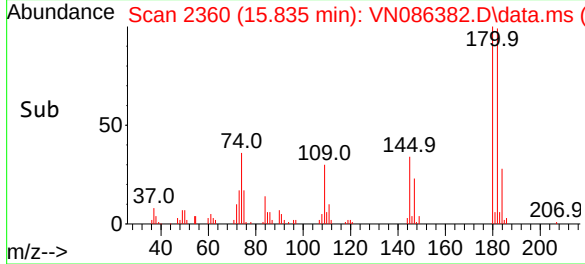
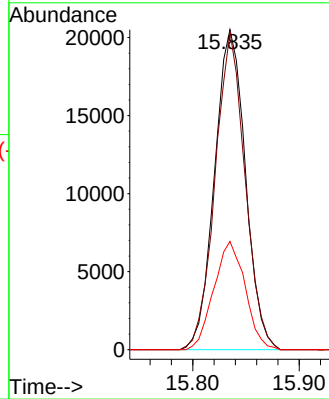
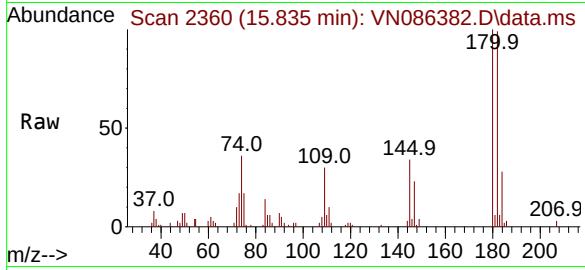
Tgt Ion:	180	Resp:	4121
Ion Ratio	Lower	Upper	
180	100		
182	96.0	74.8	112.2
145	34.4	26.9	40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

Concen: 20.317 ug/l

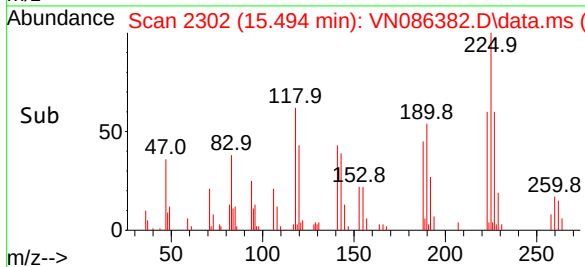
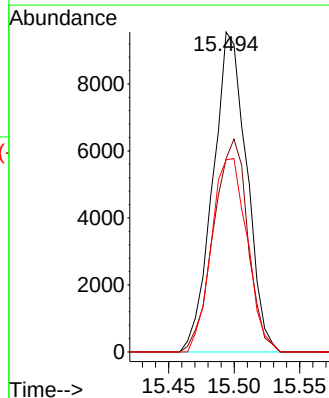
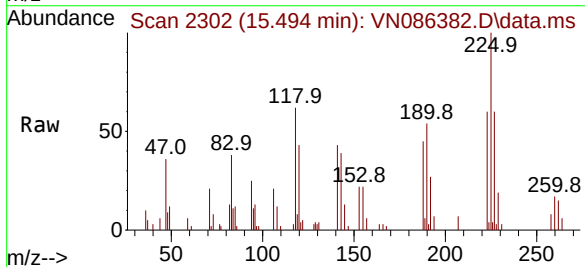
RT: 15.494 min Scan# 2302

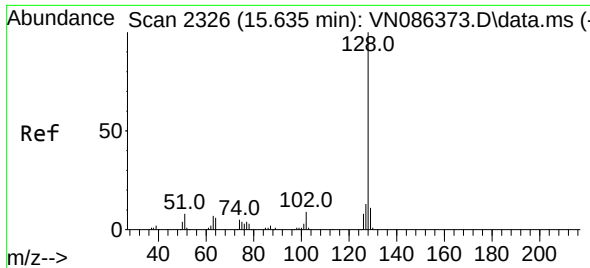
Delta R.T. 0.000 min

Lab File: VN086382.D

Acq: 23 Apr 2025 15:02

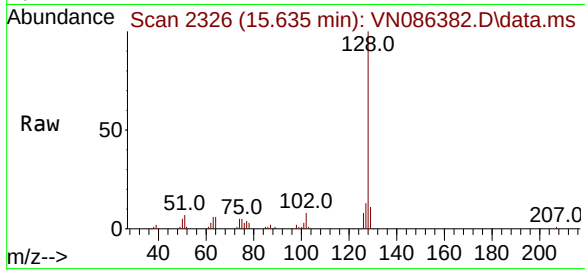
Tgt Ion:	225	Resp:	17092
Ion Ratio	Lower	Upper	
225	100		
223	67.5	0.0	128.8
227	64.1	0.0	120.2





#91
Naphthalene
Concen: 19.891 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

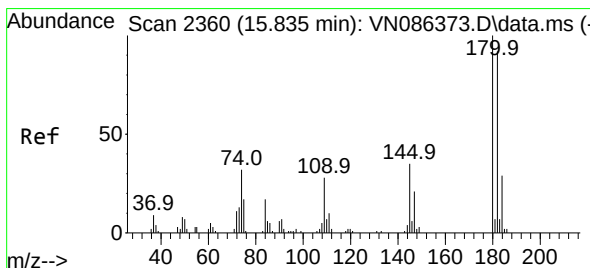
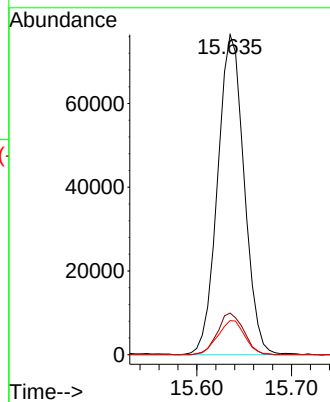
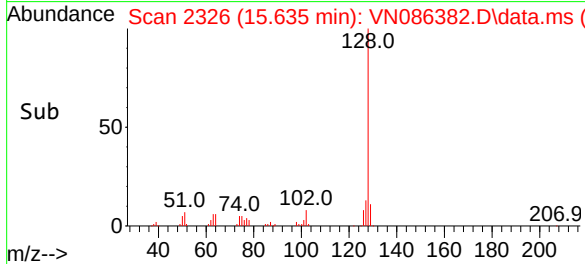
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBS01



Tgt Ion:128 Resp: 148729
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 10.9 8.7 13.1

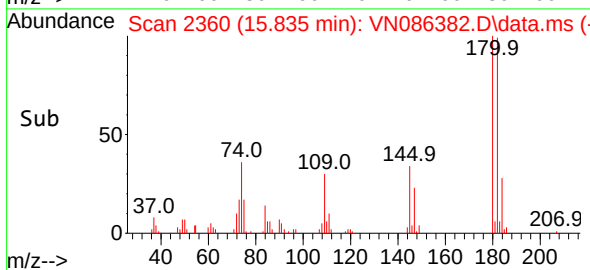
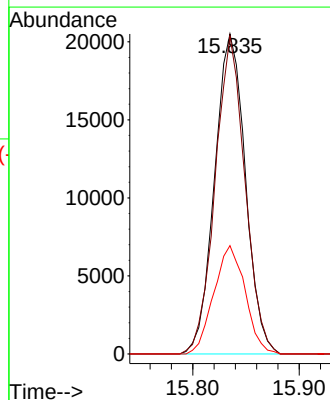
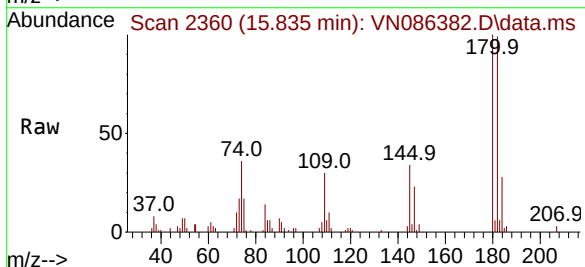
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 19.734 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086382.D
Acq: 23 Apr 2025 15:02

Tgt Ion:180 Resp: 41215
Ion Ratio Lower Upper
180 100
182 96.0 0.0 187.0
145 34.4 0.0 67.2



Report of Analysis

Client:	Ardmore Chemical			Date Collected:		
Project:	PVSC Monthly 2025			Date Received:		
Client Sample ID:	VN0423WBSD01			SDG No.:	Q1833	
Lab Sample ID:	VN0423WBSD01			Matrix:	Water	
Analytical Method:	E624.1			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-PP	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086383.D	1		04/23/25 15:36	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
74-87-3	Chloromethane	20.3		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	20.2		0.83	5.00	ug/L
74-83-9	Bromomethane	20.8		0.80	5.00	ug/L
75-00-3	Chloroethane	20.5		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.2		0.76	5.00	ug/L
107-02-8	Acrolein	82.6		6.60	25.0	ug/L
107-13-1	Acrylonitrile	110		2.80	25.0	ug/L
75-09-2	Methylene Chloride	21.0		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.5		0.82	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.1		0.68	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.74	5.00	ug/L
67-66-3	Chloroform	20.8		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.63	5.00	ug/L
71-43-2	Benzene	20.0		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.50	5.00	ug/L
79-01-6	Trichloroethene	19.3		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.46	5.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.64	5.00	ug/L
108-88-3	Toluene	20.0		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.7		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.3		0.45	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	95.8		4.60	25.0	ug/L
124-48-1	Dibromochloromethane	19.8		0.66	5.00	ug/L
127-18-4	Tetrachloroethene	19.6		0.84	5.00	ug/L
108-90-7	Chlorobenzene	20.0		0.47	5.00	ug/L
100-41-4	Ethyl Benzene	19.5		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	38.9		1.30	10.0	ug/L
95-47-6	o-Xylene	19.5		0.67	5.00	ug/L

Report of Analysis

Client:	Ardmore Chemical			Date Collected:	
Project:	PVSC Monthly 2025			Date Received:	
Client Sample ID:	VN0423WBSD01			SDG No.:	Q1833
Lab Sample ID:	VN0423WBSD01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-PP
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086383.D	1		04/23/25 15:36	VN042325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
75-25-2	Bromoform	20.0		0.94	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.0		0.44	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.2		0.81	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.2		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	30.0		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.4		63 - 112	98%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27700	7.812			
540-36-3	1,4-Difluorobenzene	169000	9.1			
3114-55-4	Chlorobenzene-d5	156000	11.865			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086383.D
 Acq On : 23 Apr 2025 15:36
 Operator : JC\MD
 Sample : VN0423WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 05:00:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	27716	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168952	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	155573	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83502	31.249	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.167%			
60) 4-Bromofluorobenzene	12.847	95	89869	29.391	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.967%			
63) Toluene-d8	10.565	98	256591	29.980	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	39742	20.770	ug/l	99
3) Chloromethane	2.359	50	55153	20.291	ug/l	99
4) Vinyl Chloride	2.512	62	52681	20.236	ug/l	98
5) Bromomethane	2.965	94	28265	20.796	ug/l	96
6) Chloroethane	3.124	64	35558	20.488	ug/l	98
7) Trichlorofluoromethane	3.500	101	61198	19.916	ug/l	98
8) Diethyl Ether	3.959	74	27532	21.226	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	37918	20.072	ug/l	98
10) 1,1-Dichloroethene	4.342	96	38966	20.152	ug/l	98
11) Methyl Iodide	4.589	142	45620	20.165	ug/l	98
12) Methyl Acetate	5.018	43	62472	22.795	ug/l #	89
13) Acrolein	4.177	56	11671	82.605	ug/l	94
14) Acrylonitrile	5.712	53	111767	109.576	ug/l	99
15) Acetone	4.424	58	28238	100.468	ug/l	92
16) Carbon Disulfide	4.712	76	102111	20.041	ug/l	99
17) Allyl chloride	5.018	41	63122	20.417	ug/l	98
18) Methylene Chloride	5.277	84	46311	21.032	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	42146	20.450	ug/l	93
20) Diisopropyl ether	6.671	45	149387	20.322	ug/l	97
21) 1,1-Dichloroethane	6.565	63	80712	20.058	ug/l	99
22) cis-1,2-Dichloroethene	7.488	96	52585	20.406	ug/l	97
23) tert-Butyl Alcohol	5.512	59	45713	115.691	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	150641	21.087	ug/l	100
25) Chloroform	7.965	83	84639	20.783	ug/l	99
26) Cyclohexane	8.253	56	71069	20.003	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	58285	19.569	ug/l	100
30) 2-Butanone	7.477	43	152291	105.343	ug/l	100
31) 2,2-Dichloropropane	7.488	77	73884	19.297	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	69838	19.622	ug/l	100
33) Carbon Tetrachloride	8.353	117	56182	19.175	ug/l	94
34) Benzene	8.600	78	189121	19.963	ug/l	95
35) Methacrylonitrile	7.777	41	34299	20.799	ug/l	99
36) 1,2-Dichloroethane	8.665	62	62109	20.193	ug/l	100
37) Trichloroethene	9.347	130	45733	19.284	ug/l	96
38) Methylcyclohexane	9.600	83	67318	19.569	ug/l	99
39) 1,2-Dichloropropane	9.618	63	46619	19.920	ug/l	94
40) Dibromomethane	9.706	93	32067	20.489	ug/l	98
41) Bromodichloromethane	9.888	83	66446	20.062	ug/l	98
42) Vinyl Acetate	6.600	43	530966	106.025	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086383.D
 Acq On : 23 Apr 2025 15:36
 Operator : JC\MD
 Sample : VN0423WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 05:00:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	58398m	20.412	ug/l	
44) Isopropyl Acetate	8.682	43	116469	21.450	ug/l	98
45) 1,4-Dioxane	9.694	88	19439	458.846	ug/l	96
46) Methyl methacrylate	9.677	41	50681	20.235	ug/l	97
47) n-amyl Acetate	12.488	43	91264	19.720	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	73073	19.734	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	78554	20.117	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	44377	20.299	ug/l	98
51) Ethyl methacrylate	10.871	69	77237	20.286	ug/l	99
52) 1,3-Dichloropropane	11.159	76	78950	20.434	ug/l	99
53) Dibromochloromethane	11.353	129	48714	19.845	ug/l	99
54) 1,2-Dibromoethane	11.465	107	45924	20.661	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	171519	95.818	ug/l	100
56) Bromoform	12.576	173	31914	20.034	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	321264	106.712	ug/l	99
59) 2-Hexanone	11.194	43	235961	106.358	ug/l	100
61) Tetrachloroethene	11.100	164	46411	19.559	ug/l	93
62) Toluene	10.624	91	207801	19.955	ug/l	98
64) Chlorobenzene	11.888	112	130041	20.041	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.953	131	43205	19.914	ug/l	99
66) Ethyl Benzene	11.959	91	228725	19.513	ug/l	98
67) m/p-Xylenes	12.065	106	172811	38.856	ug/l	97
68) o-Xylene	12.394	106	84784	19.470	ug/l	100
69) Styrene	12.406	104	144296	19.550	ug/l	99
70) Isopropylbenzene	12.694	105	216881	19.952	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	62855	21.960	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	60875m	24.395	ug/l	
73) Bromobenzene	12.976	156	50079	20.039	ug/l	99
74) n-propylbenzene	13.029	91	249334	19.303	ug/l	99
75) 2-Chlorotoluene	13.123	91	158594	19.668	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	173133	19.411	ug/l	100
77) t-1,4-Dichloro-2-butene	12.729	75	24797	19.581	ug/l	97
78) 4-Chlorotoluene	13.217	91	155927	19.340	ug/l	100
79) tert-butylbenzene	13.435	119	149427	19.562	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174841	19.194	ug/l	97
81) sec-Butylbenzene	13.612	105	209589	19.222	ug/l	99
82) p-Isopropyltoluene	13.723	119	172579	18.915	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	90188	19.091	ug/l	97
84) 1,4-Dichlorobenzene	13.806	146	89803	19.240	ug/l	99
85) n-Butylbenzene	14.053	91	150899	18.535	ug/l	99
86) Hexachloroethane	14.329	117	27531	18.453	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	87275	19.416	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11610	19.956	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	40145	19.595	ug/l	99
90) Hexachlorobutadiene	15.494	225	16304	19.757	ug/l	98
91) Naphthalene	15.635	128	148836	20.292	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	40145	19.595	ug/l	99

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

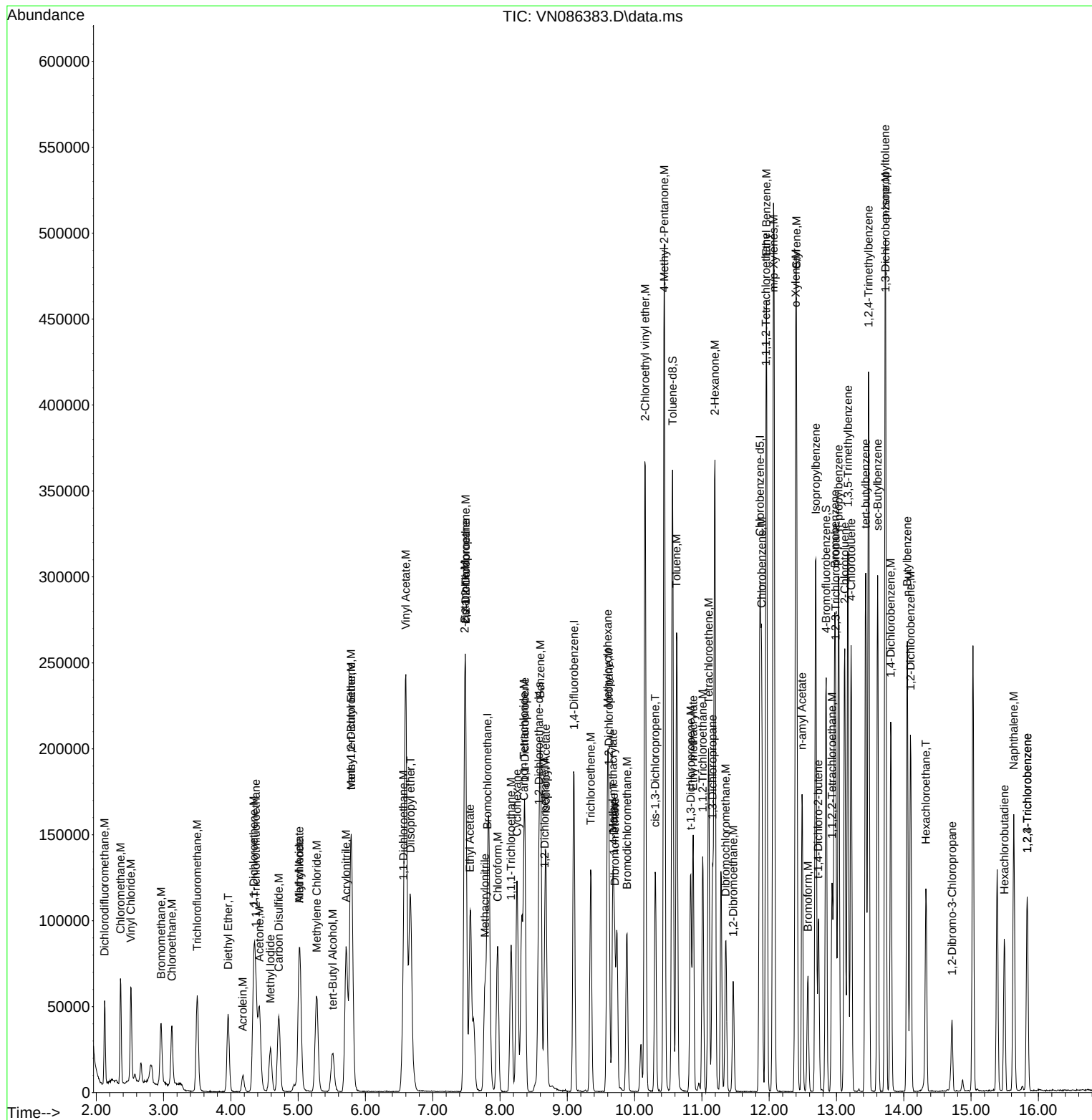
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
Data File : VN086383.D
Acq On : 23 Apr 2025 15:36
Operator : JC\MD
Sample : VN0423WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

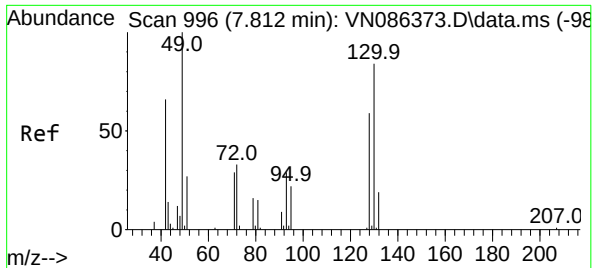
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 05:00:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 24 04:42:24 2025
Response via : Initial Calibration





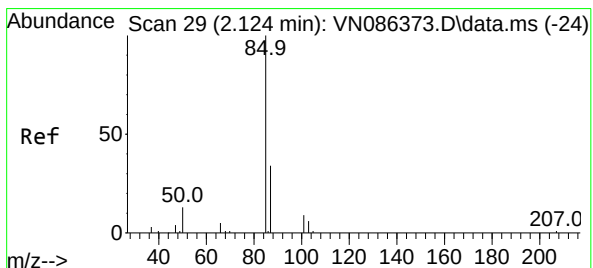
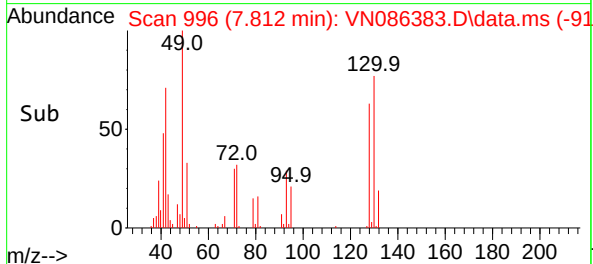
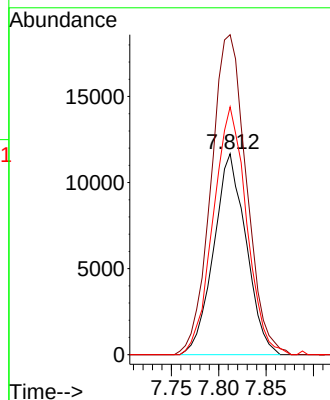
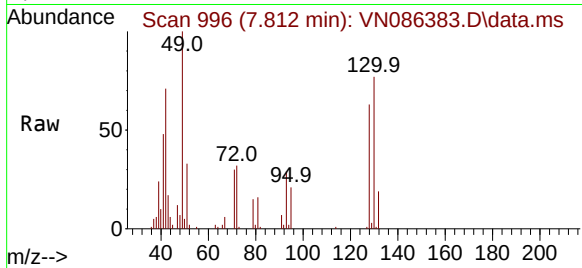
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 128 Resp: 27710
Ion Ratio Lower Upper
128 100
49 174.0 0.0 433.8
130 127.5 0.0 325.0

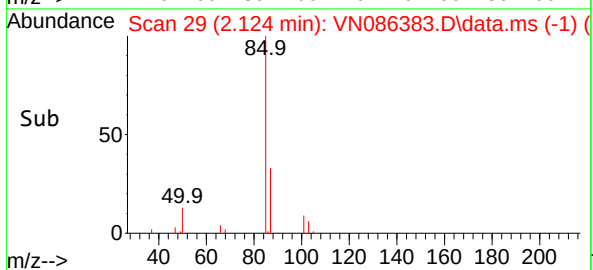
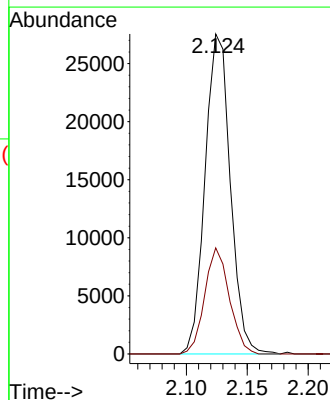
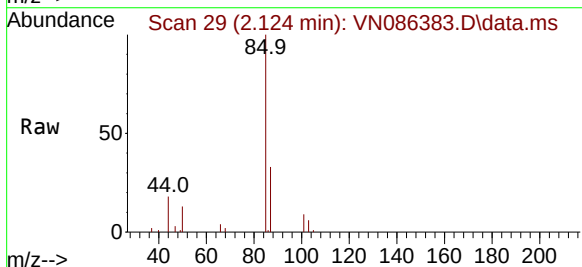
Manual Integrations
APPROVED

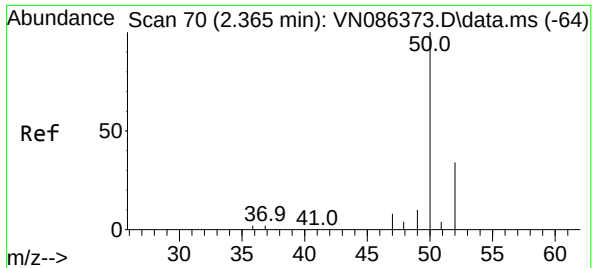
Reviewed By : John Carlone 04/24/2025
Supervised By : Mahesh Dadoda 04/25/2025



#2
Dichlorodifluoromethane
Concen: 20.770 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 85 Resp: 39742
Ion Ratio Lower Upper
85 100
87 33.2 17.0 50.9





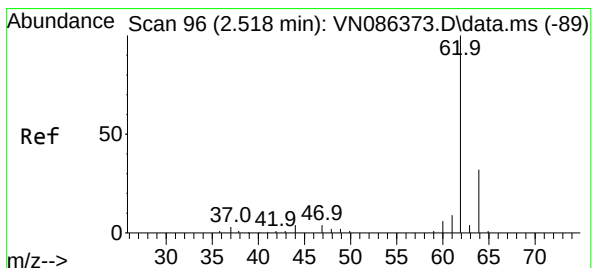
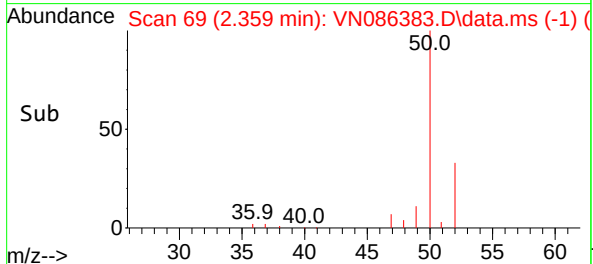
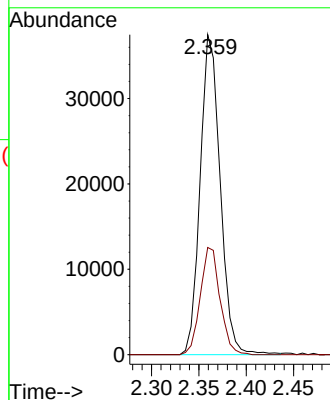
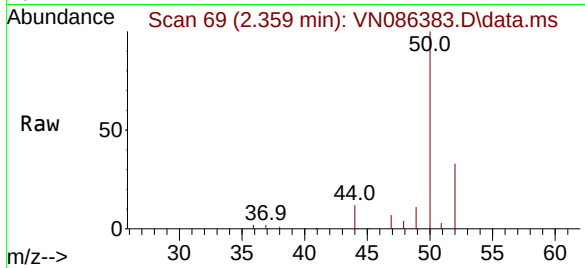
#3
Chloromethane
Concen: 20.291 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 50 Resp: 5515
Ion Ratio Lower Upper
50 100
52 33.5 27.3 40.9

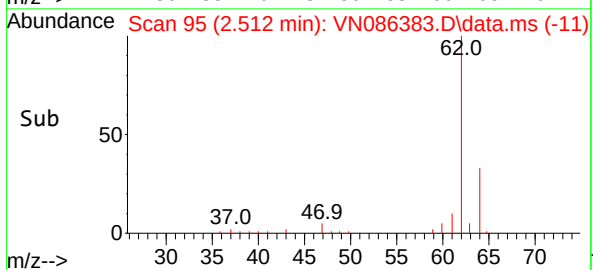
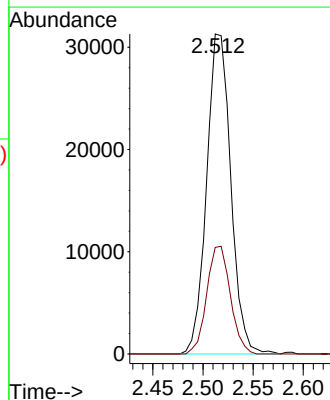
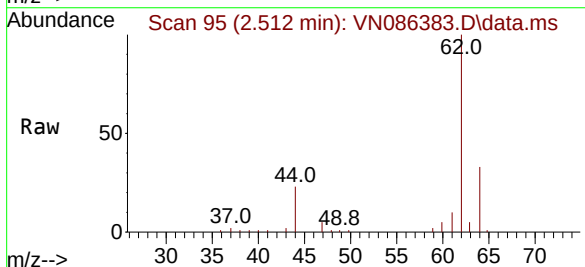
Manual Integrations
APPROVED

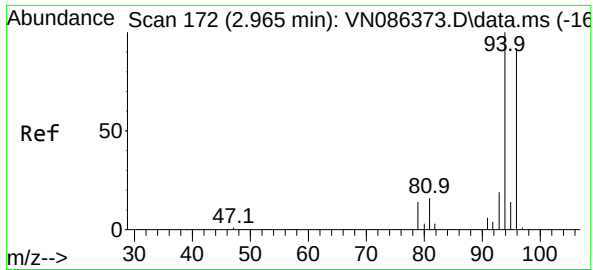
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#4
Vinyl Chloride
Concen: 20.236 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 62 Resp: 52681
Ion Ratio Lower Upper
62 100
64 33.3 25.8 38.8





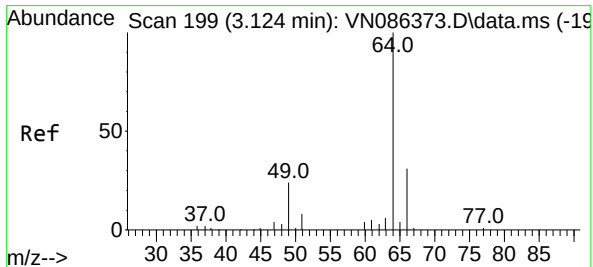
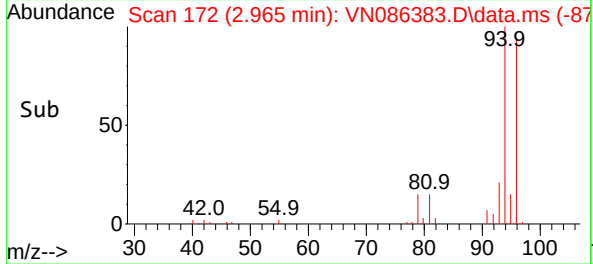
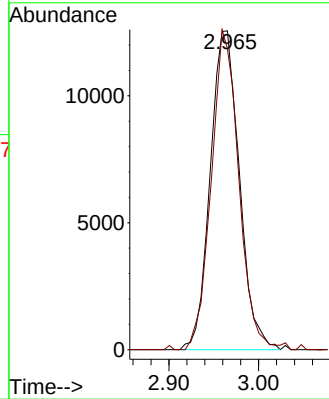
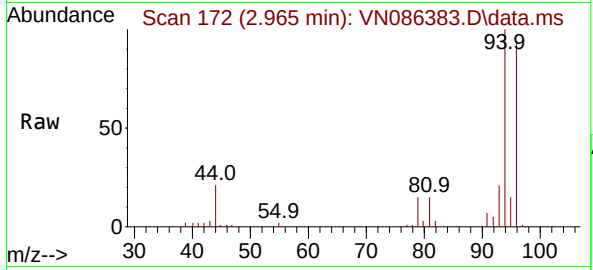
#5
Bromomethane
Concen: 20.796 ug/l
RT: 2.965 min Scan# 172
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 94 Resp: 2826
Ion Ratio Lower Upper
94 100
96 94.3 72.4 108.6

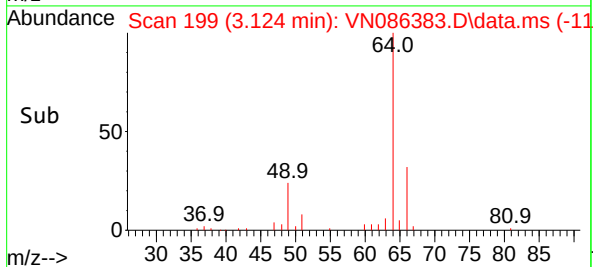
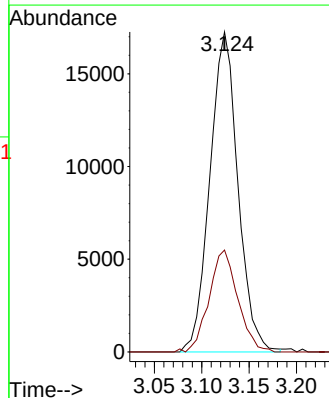
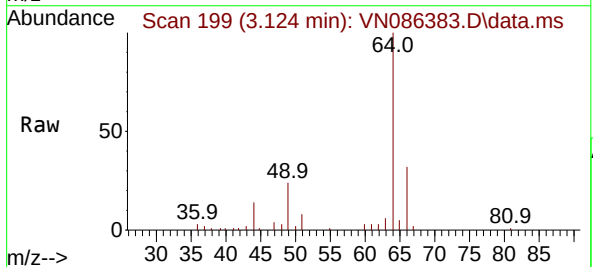
Manual Integrations
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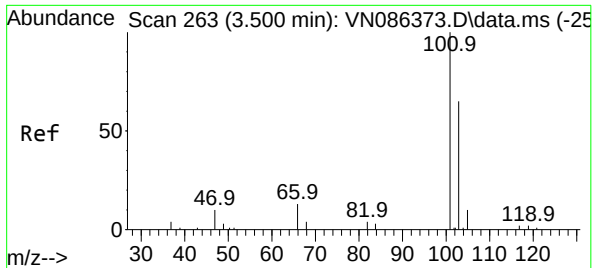
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#6
Chloroethane
Concen: 20.488 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 64 Resp: 35558
Ion Ratio Lower Upper
64 100
66 31.8 24.5 36.7





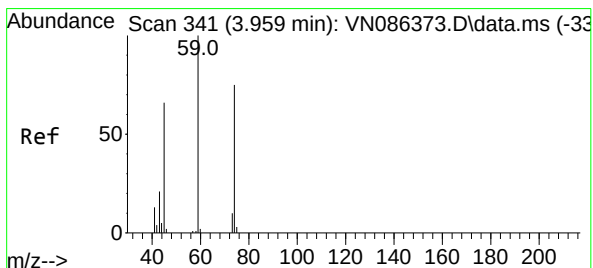
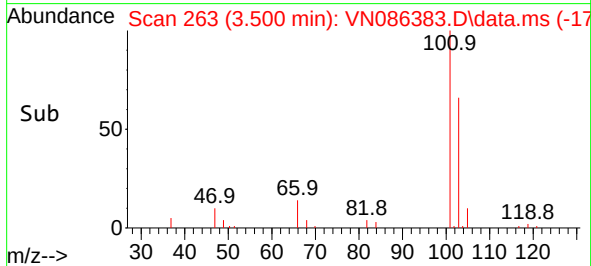
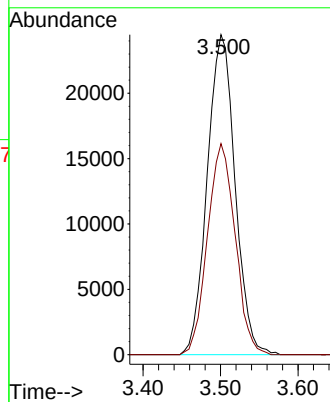
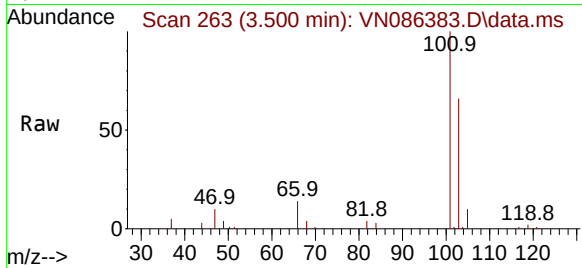
#7
Trichlorofluoromethane
Concen: 19.916 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:101 Resp: 61198
Ion Ratio Lower Upper
101 100
103 66.0 51.8 77.6

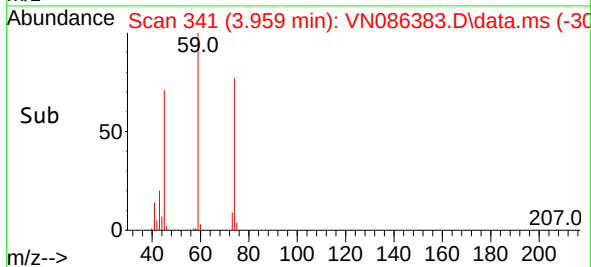
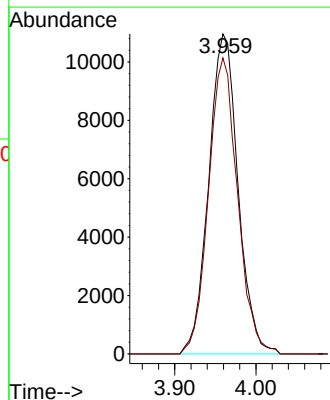
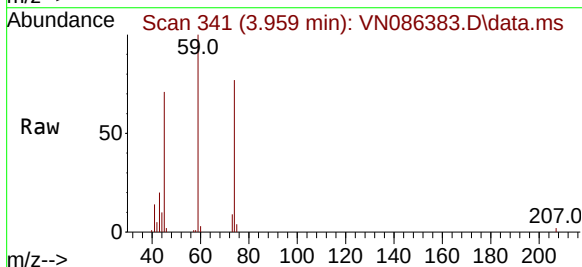
Manual Integrations
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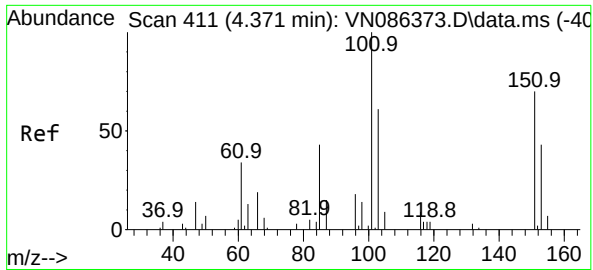
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#8
Diethyl Ether
Concen: 21.226 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 74 Resp: 27532
Ion Ratio Lower Upper
74 100
45 91.5 18.5 166.3





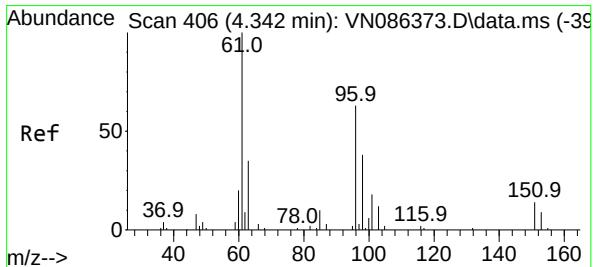
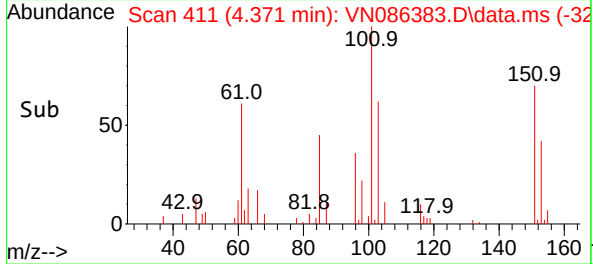
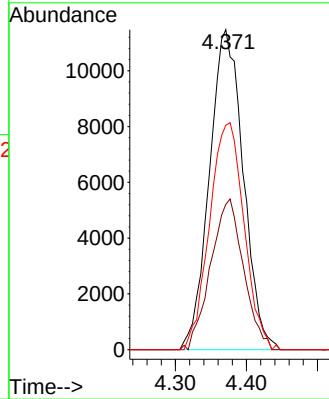
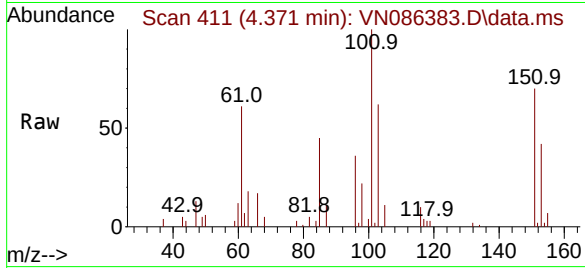
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.072 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:101 Resp: 37918
Ion Ratio Lower Upper
101 100
85 45.7 0.0 84.4
151 72.2 0.0 145.8

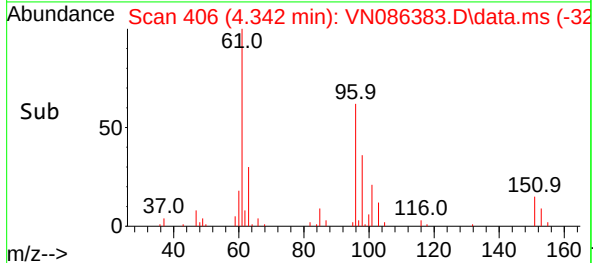
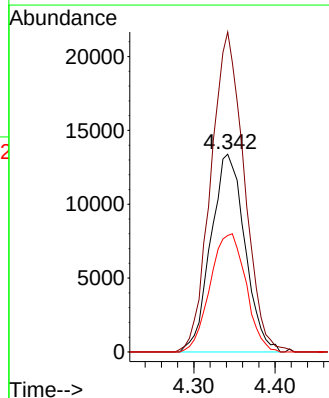
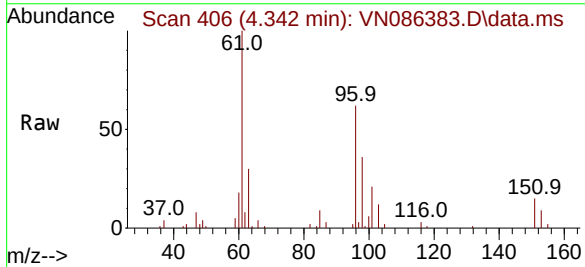
Manual Integrations
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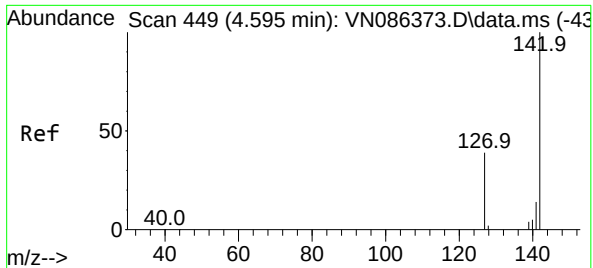
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#10
1,1-Dichloroethene
Concen: 20.152 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 96 Resp: 38966
Ion Ratio Lower Upper
96 100
61 160.5 126.2 189.4
98 58.9 48.5 72.7





#11

Methyl Iodide

Concen: 20.165 ug/l

RT: 4.589 min Scan# 449

Delta R.T. -0.006 min

Lab File: VN086383.D

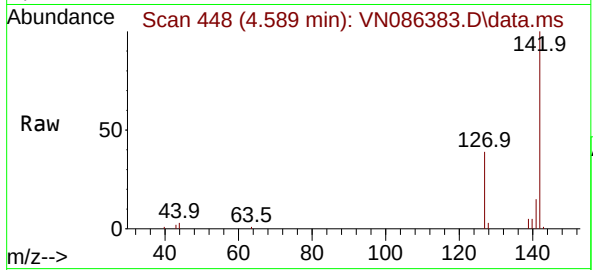
Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01



Tgt Ion:142 Resp: 45620

Ion Ratio Lower Upper

142 100

127 39.4 19.3 57.9

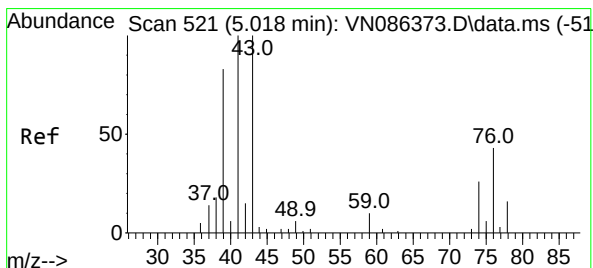
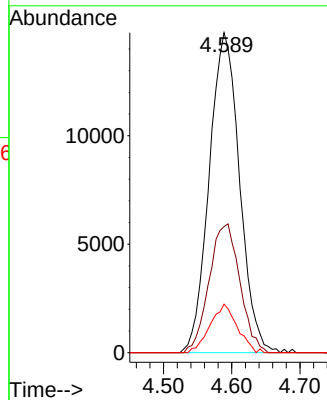
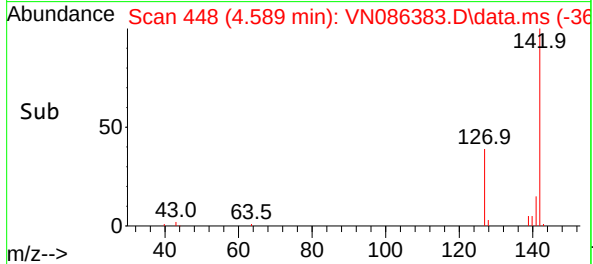
141 15.2 7.1 21.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#12

Methyl Acetate

Concen: 22.795 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN086383.D

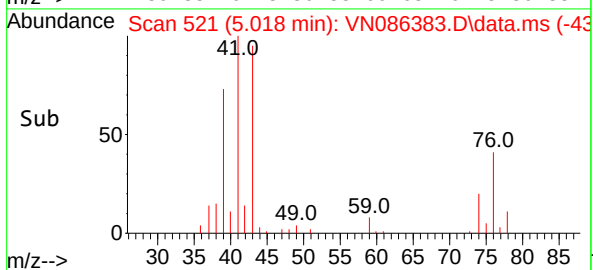
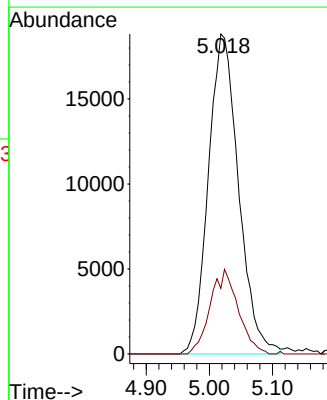
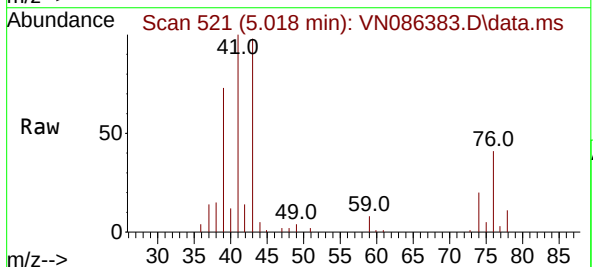
Acq: 23 Apr 2025 15:36

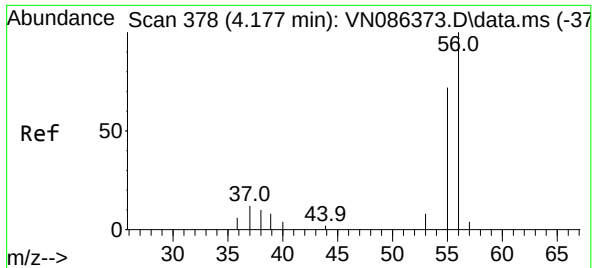
Tgt Ion: 43 Resp: 62472

Ion Ratio Lower Upper

43 100

74 20.2 20.8 31.2#





#13

Acrolein

Concen: 82.605 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 56 Resp: 1167

Ion Ratio Lower Upper

56 100

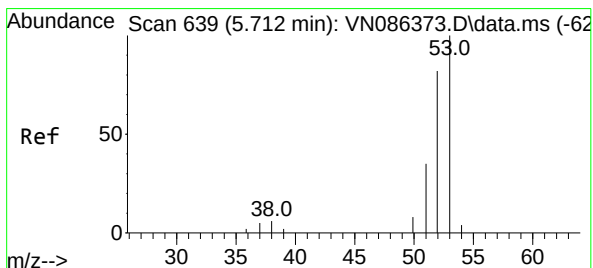
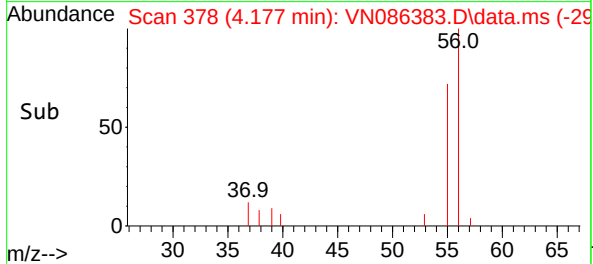
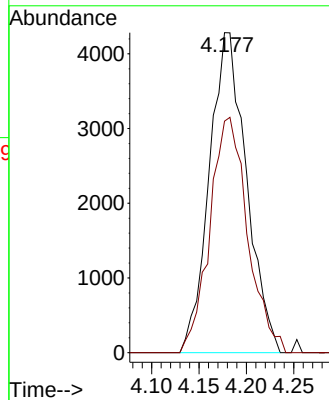
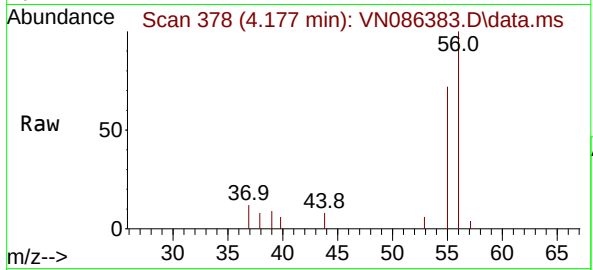
55 74.9 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#14

Acrylonitrile

Concen: 109.576 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

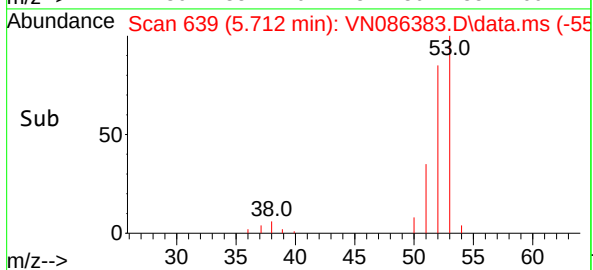
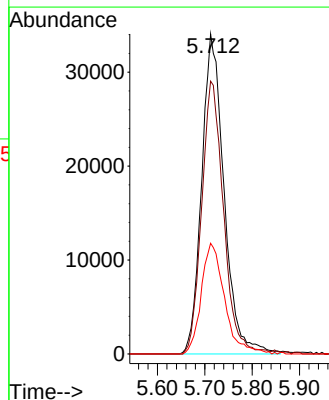
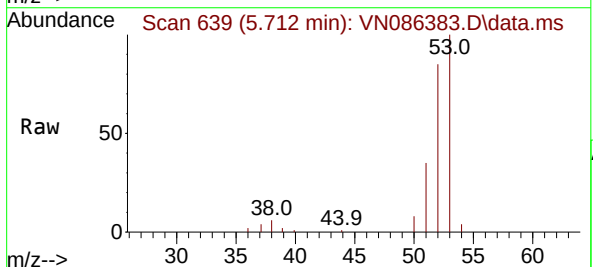
Tgt Ion: 53 Resp: 111767

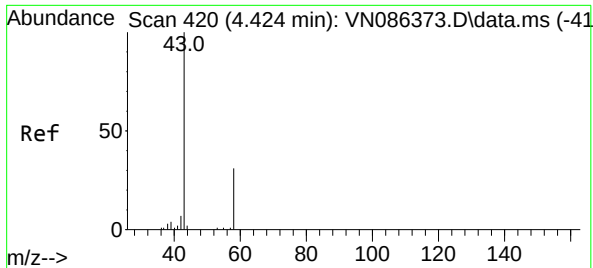
Ion Ratio Lower Upper

53 100

52 82.6 41.2 123.6

51 36.0 17.6 52.8





#15

Acetone

Concen: 100.468 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 58 Resp: 28238

Ion Ratio Lower Upper

58 100

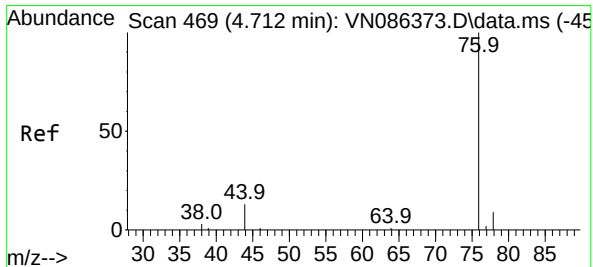
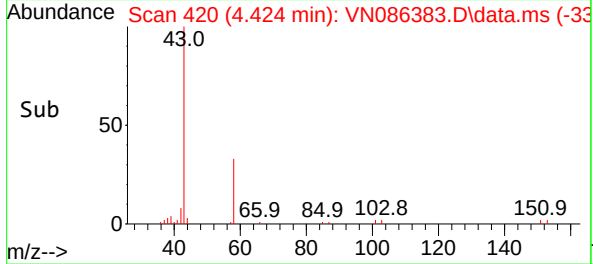
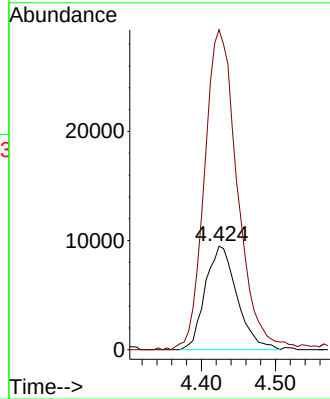
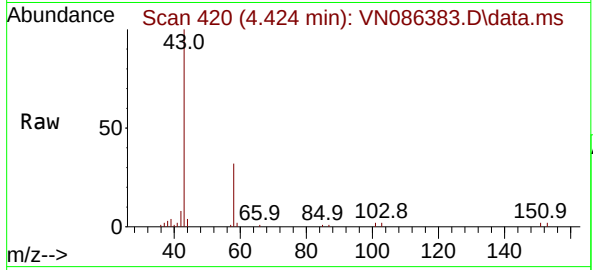
43 303.4 255.1 382.7

Manual Integrations

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Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#16

Carbon Disulfide

Concen: 20.041 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086383.D

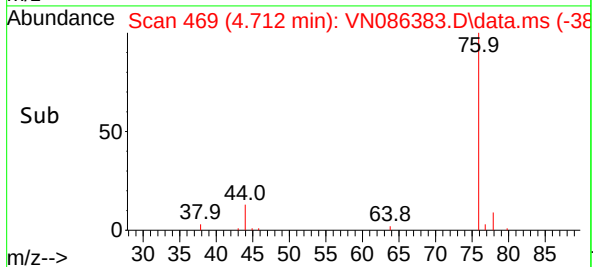
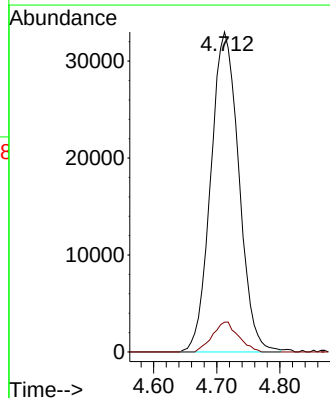
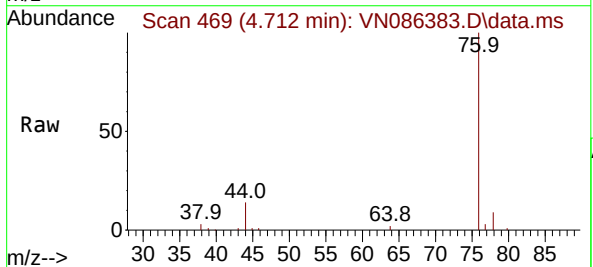
Acq: 23 Apr 2025 15:36

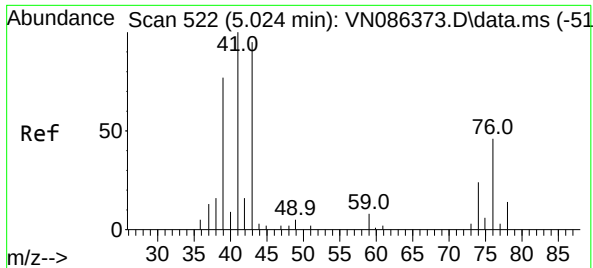
Tgt Ion: 76 Resp: 102111

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7





#17

Allyl chloride

Concen: 20.417 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 41 Resp: 6312

Ion Ratio Lower Upper

41 100

39 72.8 36.7 110.1

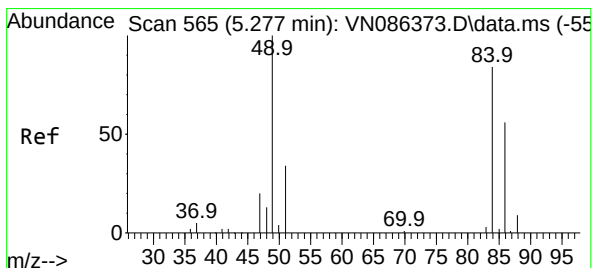
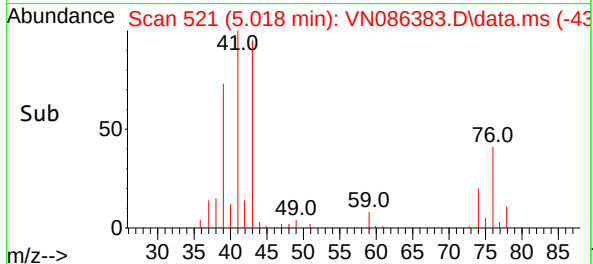
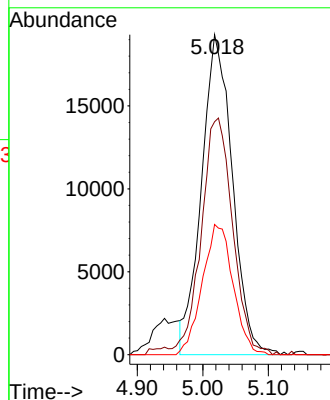
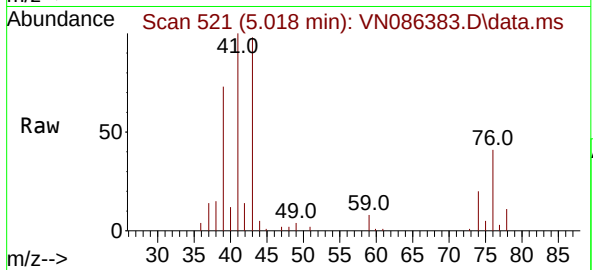
76 40.7 21.8 65.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#18

Methylene Chloride

Concen: 21.032 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Tgt Ion: 84 Resp: 46311

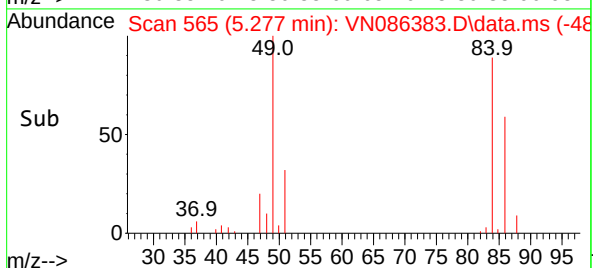
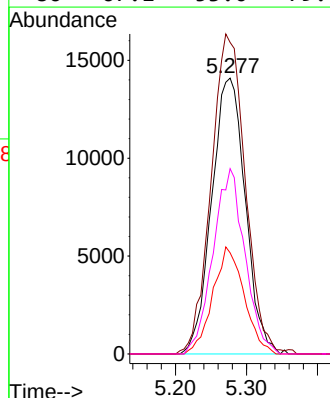
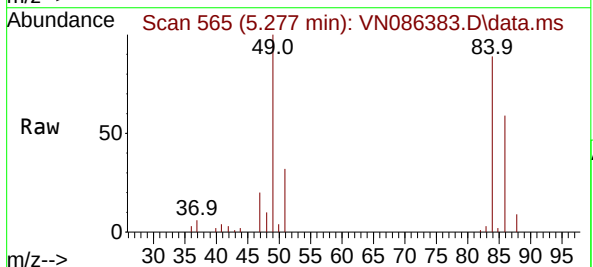
Ion Ratio Lower Upper

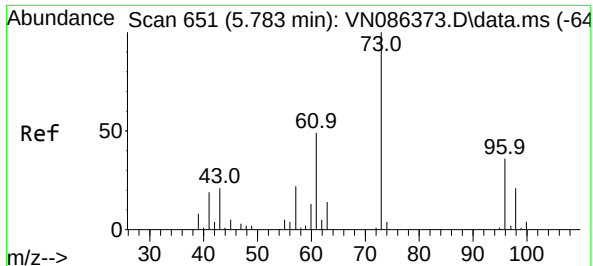
84 100

49 111.7 95.4 143.0

51 36.7 32.8 49.2

86 67.1 53.0 79.4





#19

trans-1,2-Dichloroethene

Concen: 20.450 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 96 Resp: 42140

Ion Ratio Lower Upper

96 100

61 124.5 107.3 160.9

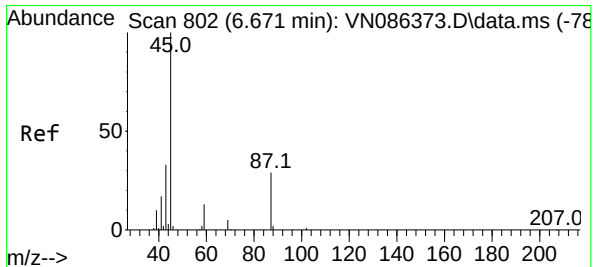
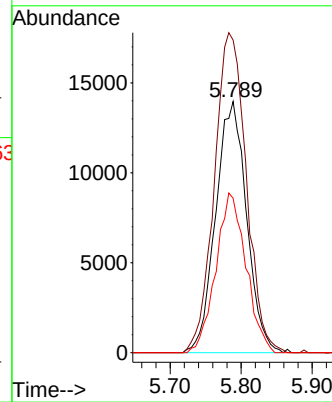
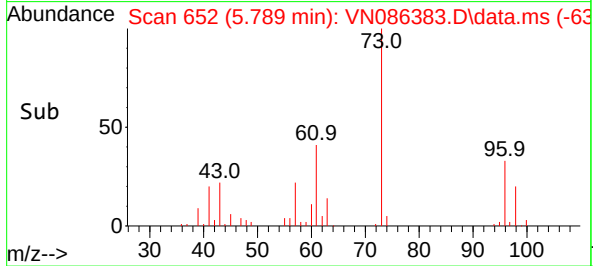
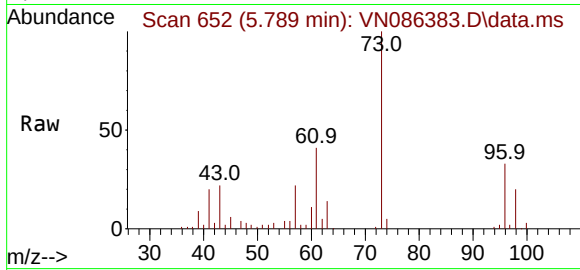
98 61.5 46.7 70.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#20

Diisopropyl ether

Concen: 20.322 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Tgt Ion: 45 Resp: 149387

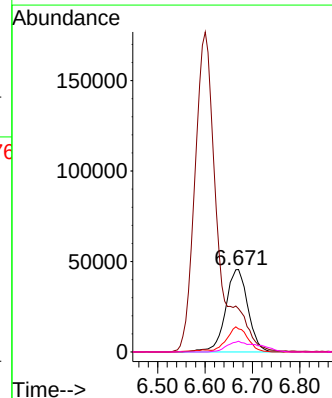
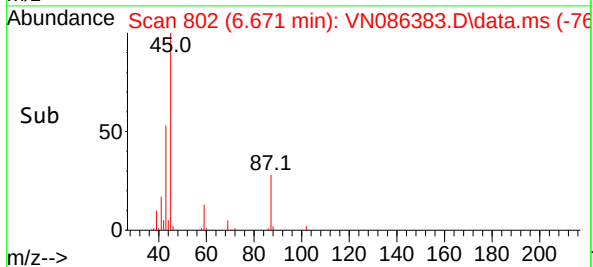
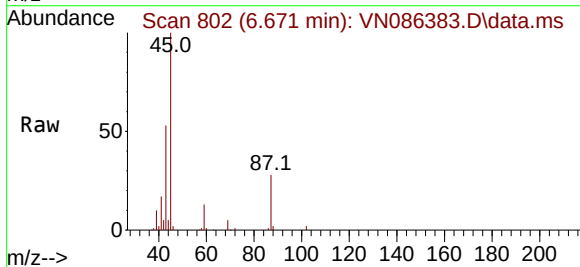
Ion Ratio Lower Upper

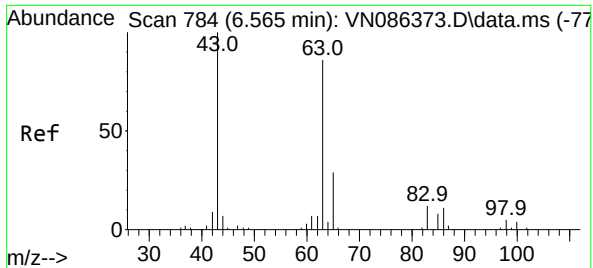
45 100

43 51.3 38.8 58.2

87 28.1 23.5 35.3

59 13.0 10.0 15.0





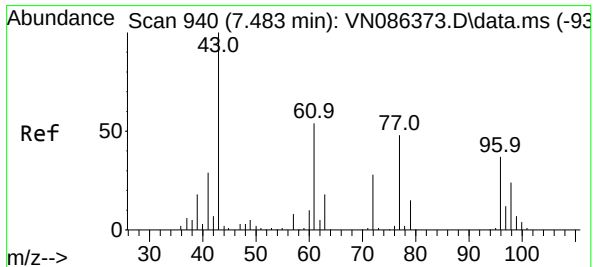
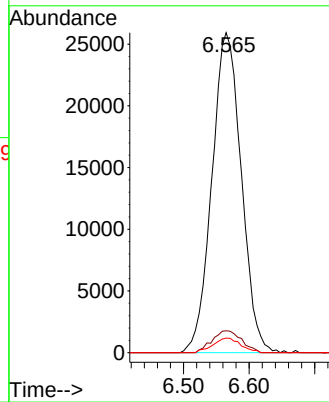
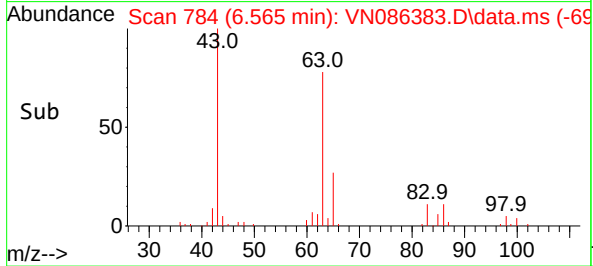
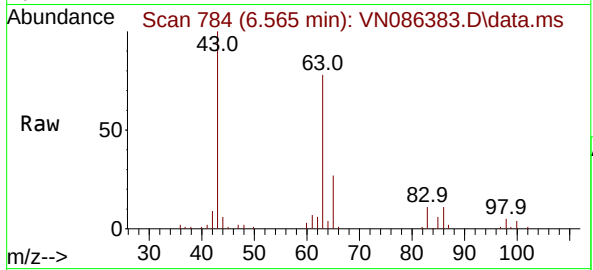
#21
1,1-Dichloroethane
Concen: 20.058 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 63 Resp: 80712
Ion Ratio Lower Upper
63 100
98 6.9 3.0 9.2
100 4.6 2.3 6.8

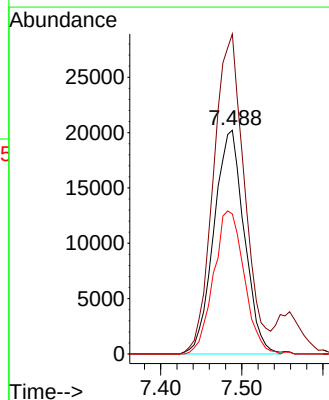
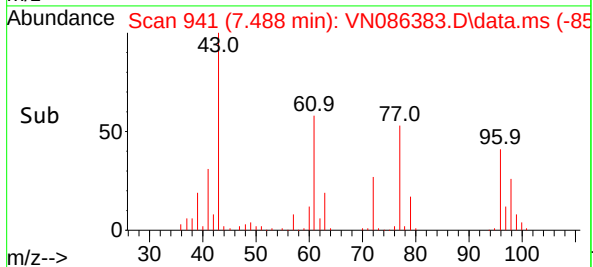
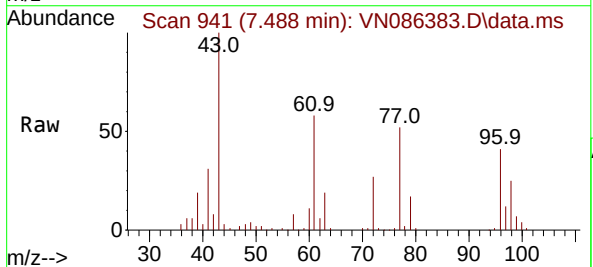
Manual Integrations
APPROVED

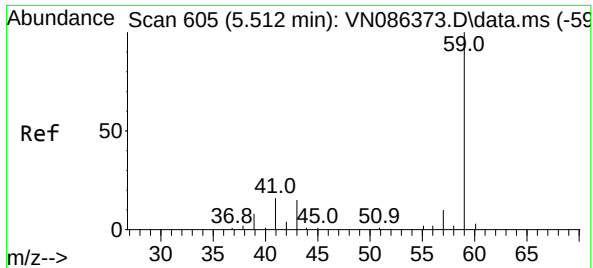
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#22
cis-1,2-Dichloroethene
Concen: 20.406 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

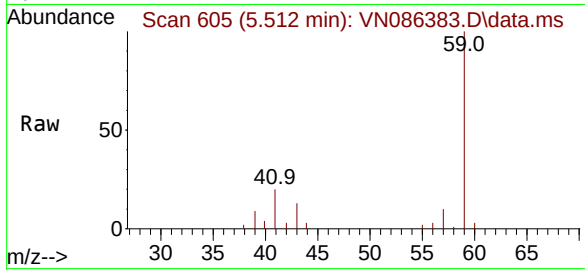
Tgt Ion: 96 Resp: 52585
Ion Ratio Lower Upper
96 100
61 145.6 120.6 181.0
98 64.1 51.8 77.6





#23
tert-Butyl Alcohol
Concen: 115.691 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

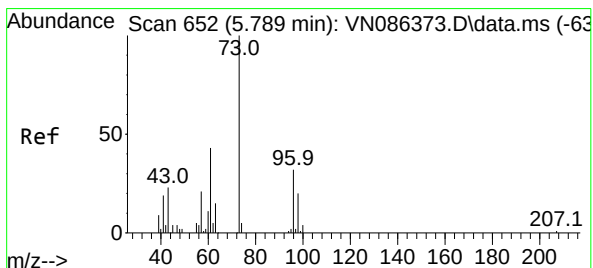
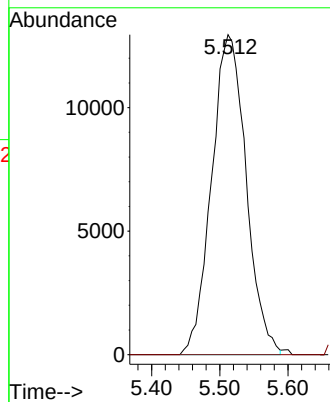
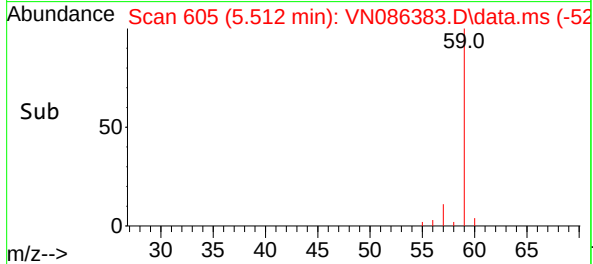
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 59 Resp: 45711
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1

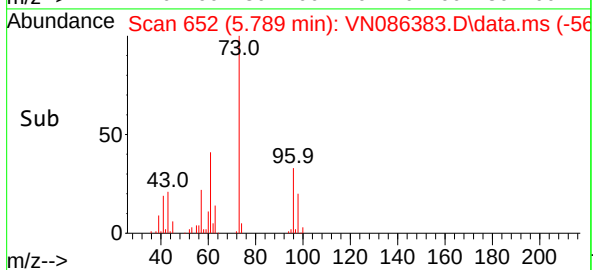
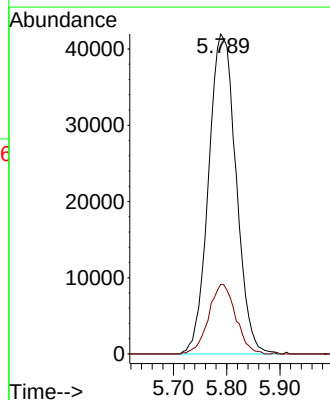
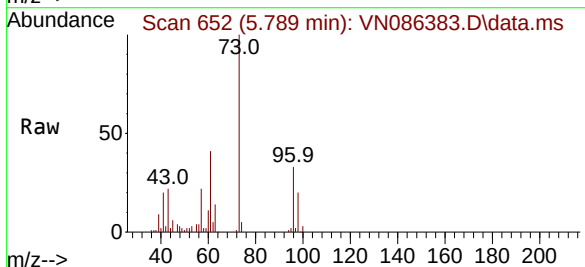
Manual Integrations
APPROVED

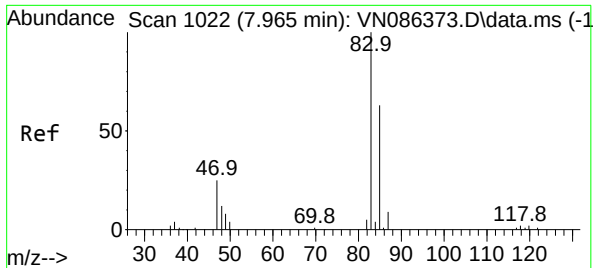
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#24
Methyl tert-Butyl Ether
Concen: 21.087 ug/l
RT: 5.789 min Scan# 652
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 73 Resp: 150641
Ion Ratio Lower Upper
73 100
43 21.4 17.1 25.7





#25

Chloroform

Concen: 20.783 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 83 Resp: 84639

Ion Ratio Lower Upper

83 100

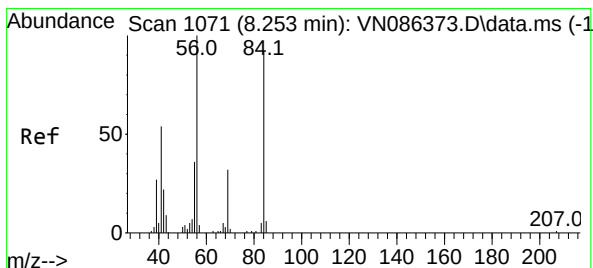
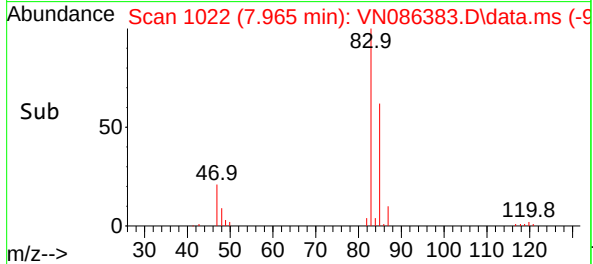
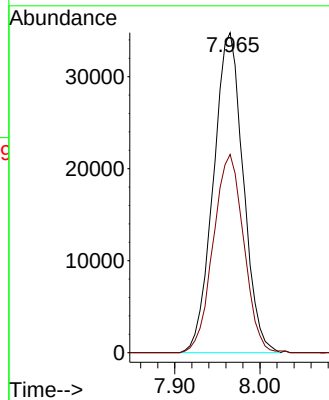
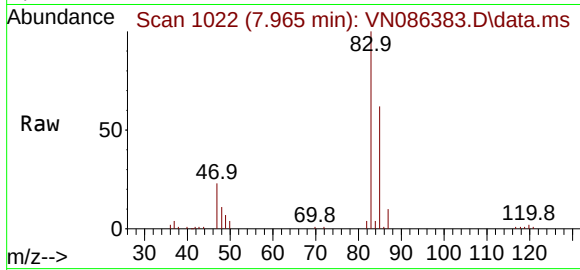
85 61.9 50.2 75.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#26

Cyclohexane

Concen: 20.003 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

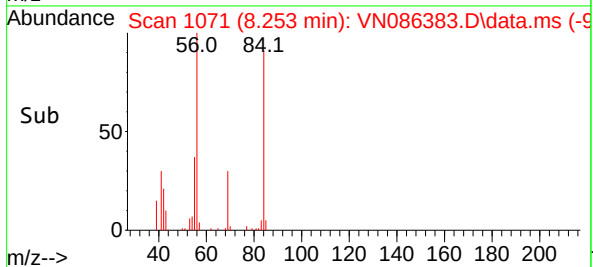
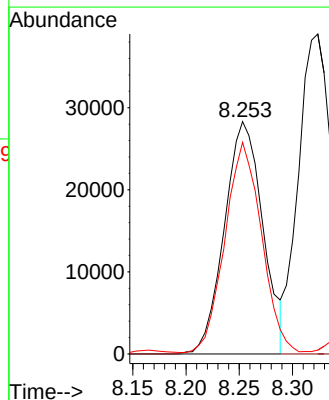
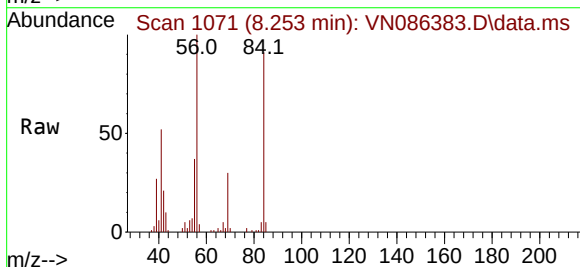
Tgt Ion: 56 Resp: 71069

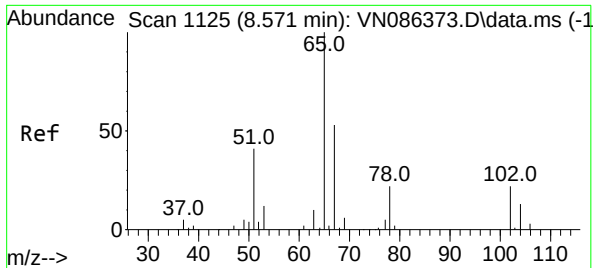
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 87.5 71.5 107.3





#27

1,2-Dichloroethane-d4

Concen: 31.249 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 65 Resp: 83502

Ion Ratio Lower Upper

65 100

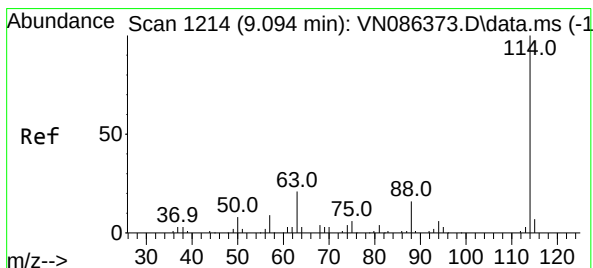
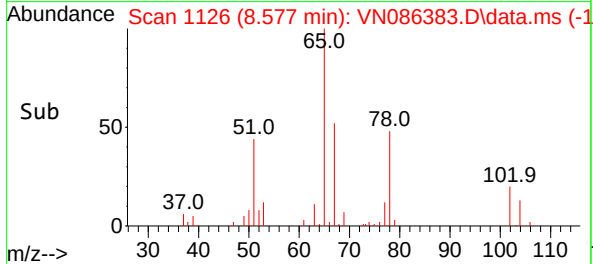
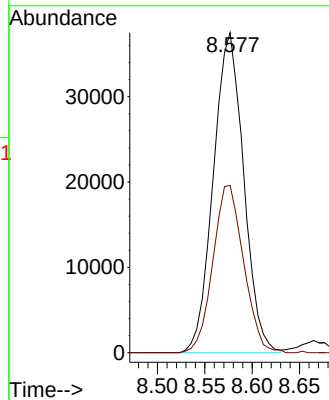
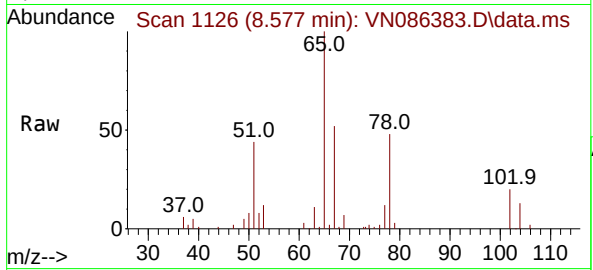
67 52.9 42.5 63.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

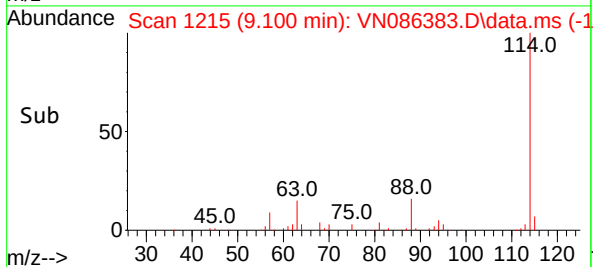
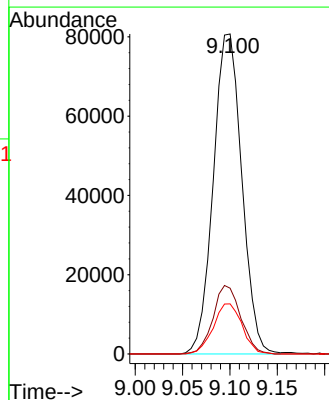
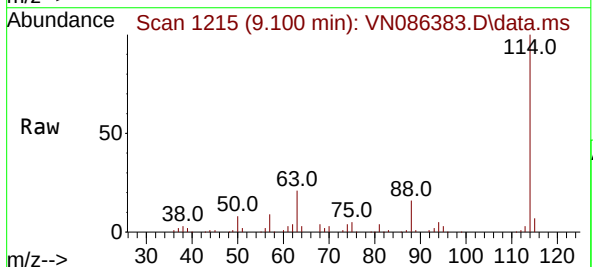
Tgt Ion:114 Resp: 168952

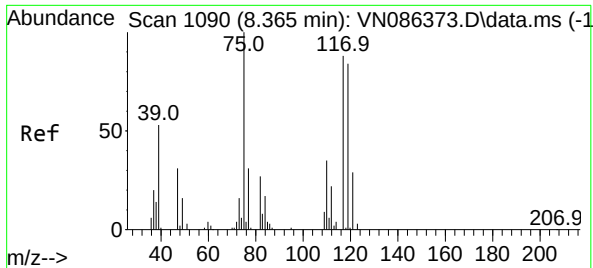
Ion Ratio Lower Upper

114 100

63 20.8 16.7 25.1

88 15.8 12.6 19.0





#29

1,1-Dichloropropene

Concen: 19.569 ug/l

RT: 8.371 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

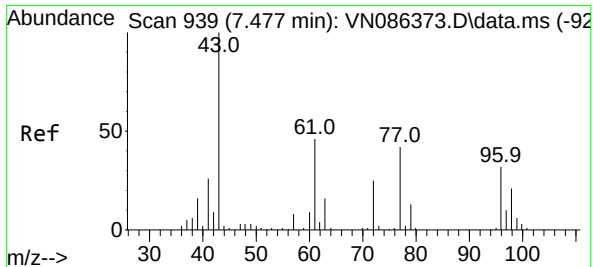
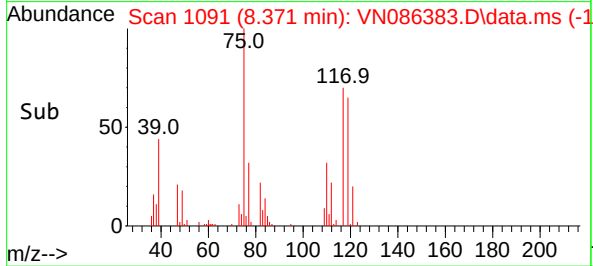
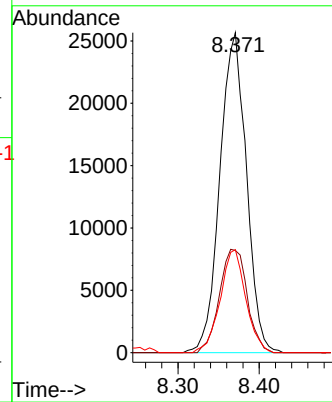
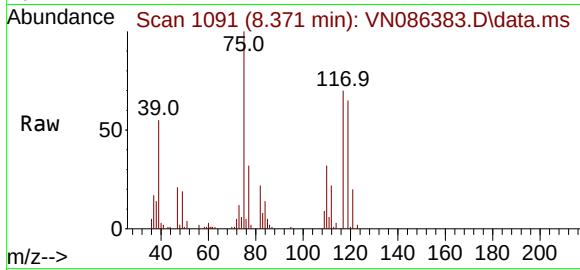
Tgt Ion:	75	Resp:	5828
Ion Ratio	Lower	Upper	
75	100		
110	33.8	0.0	68.0
77	31.1	0.0	61.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#30

2-Butanone

Concen: 105.343 ug/l

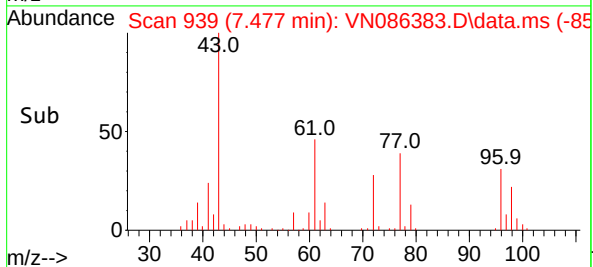
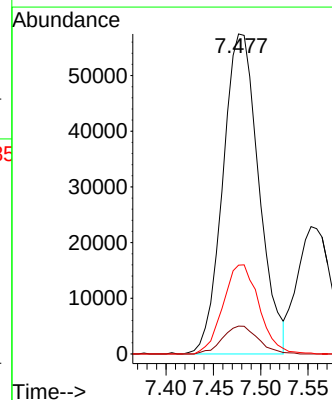
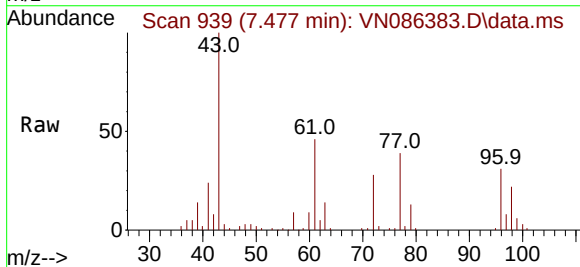
RT: 7.477 min Scan# 939

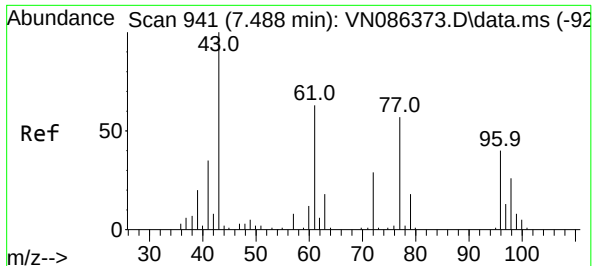
Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Tgt Ion:	43	Resp:	152291
Ion Ratio	Lower	Upper	
43	100		
57	8.6	6.6	10.0
72	27.8	22.2	33.4





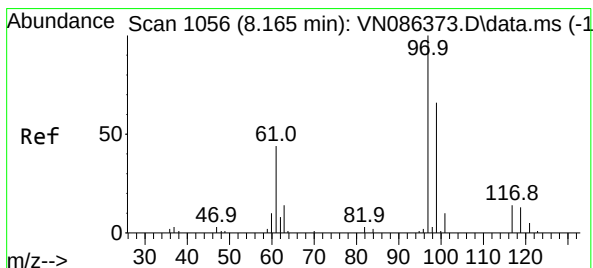
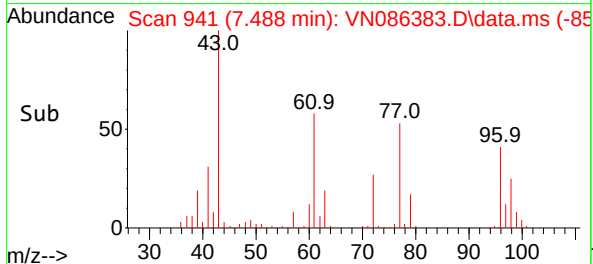
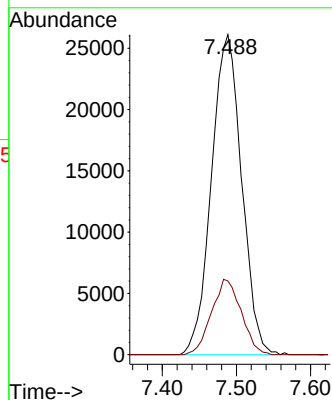
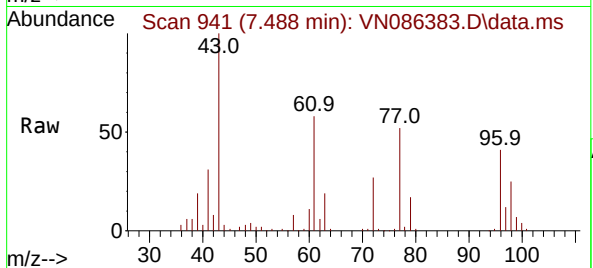
#31
2,2-Dichloropropane
Concen: 19.297 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 77 Resp: 73884
Ion Ratio Lower Upper
77 100
97 23.1 18.2 27.2

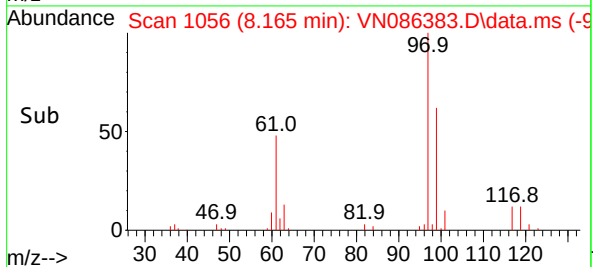
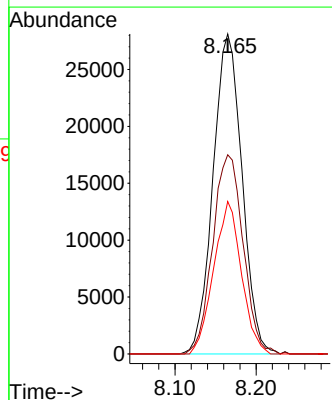
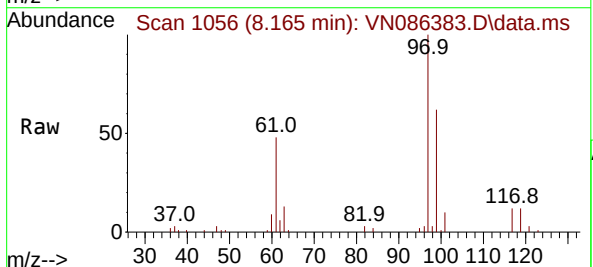
Manual Integrations
APPROVED

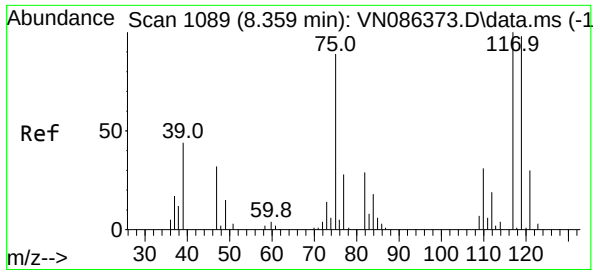
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#32
1,1,1-Trichloroethane
Concen: 19.622 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

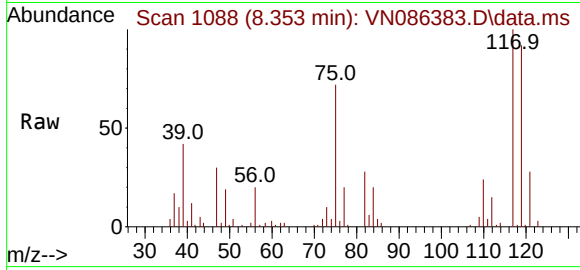
Tgt Ion: 97 Resp: 69838
Ion Ratio Lower Upper
97 100
99 65.3 52.6 79.0
61 45.5 36.4 54.6





#33
Carbon Tetrachloride
Concen: 19.175 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

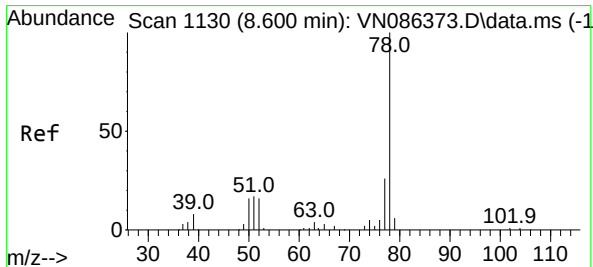
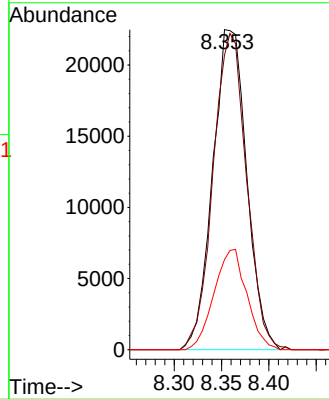
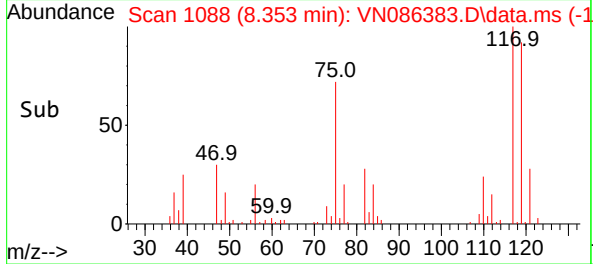
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:117 Resp: 5618
Ion Ratio Lower Upper
117 100
119 92.1 78.6 117.8
121 28.2 24.0 36.0

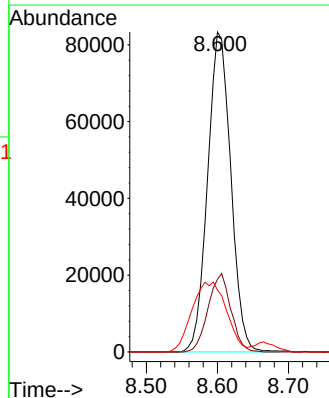
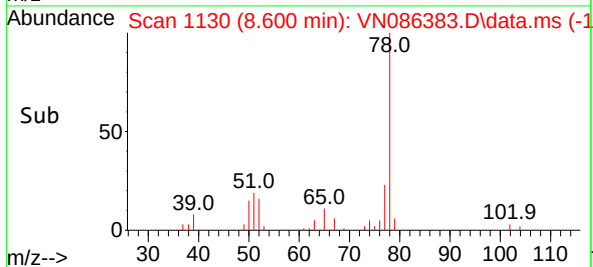
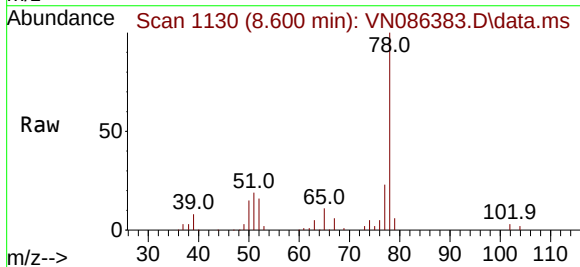
Manual Integrations
APPROVED

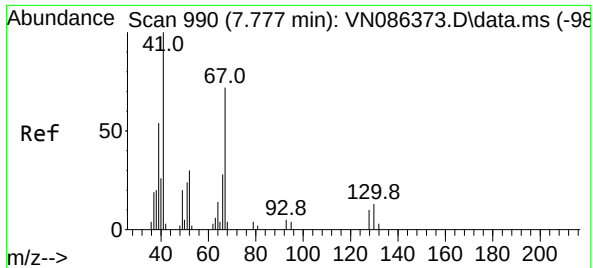
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#34
Benzene
Concen: 19.963 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

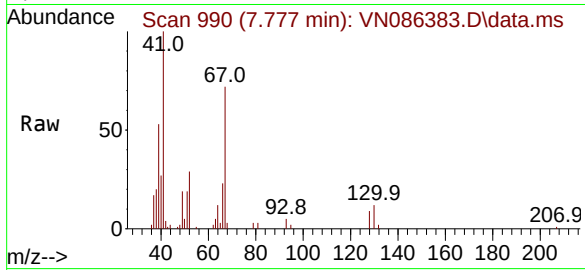
Tgt Ion: 78 Resp: 189121
Ion Ratio Lower Upper
78 100
77 22.7 20.8 31.2
51 18.3 14.0 21.0





#35
Methacrylonitrile
Concen: 20.799 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

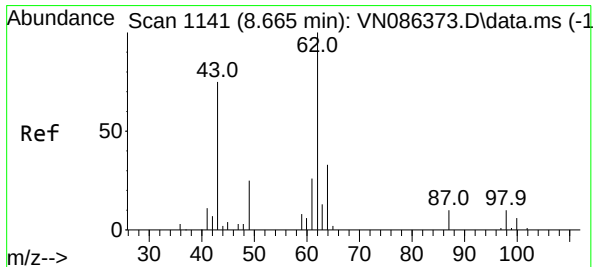
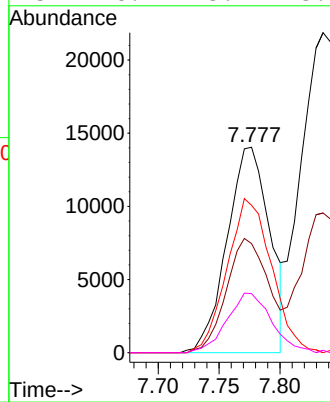
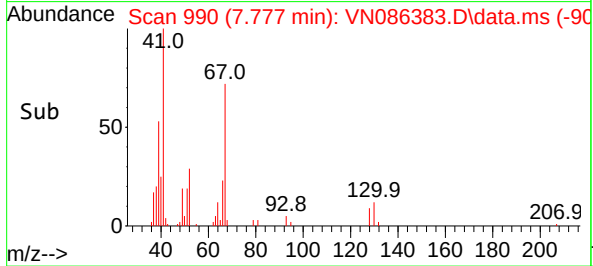
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 41 Resp: 34299
Ion Ratio Lower Upper
41 100
39 53.1 27.0 80.8
67 71.8 35.8 107.3
52 28.7 15.2 45.5

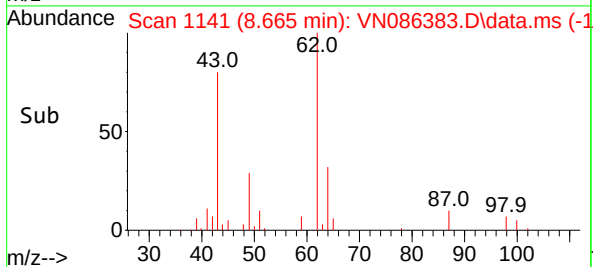
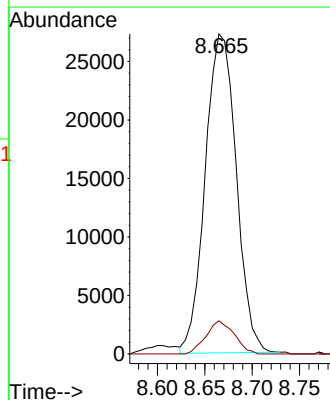
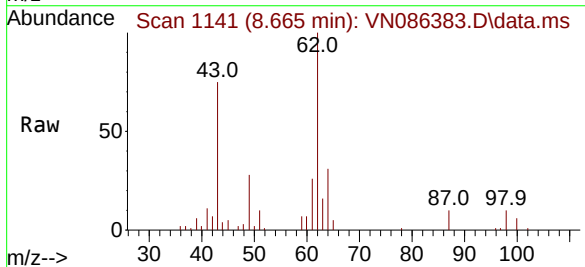
Manual Integrations
APPROVED

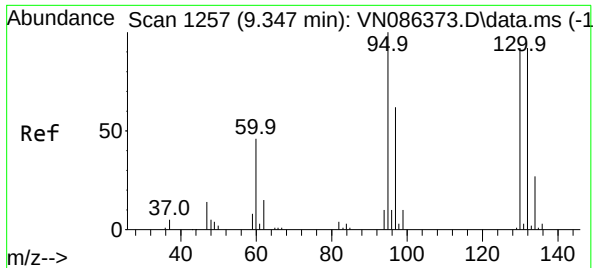
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#36
1,2-Dichloroethane
Concen: 20.193 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

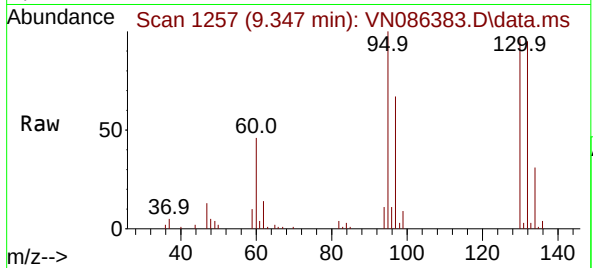
Tgt Ion: 62 Resp: 62109
Ion Ratio Lower Upper
62 100
98 9.4 7.6 11.4





#37
Trichloroethene
Concen: 19.284 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

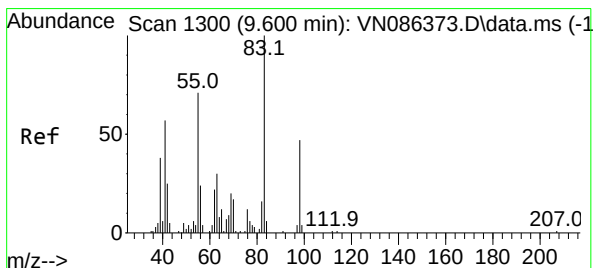
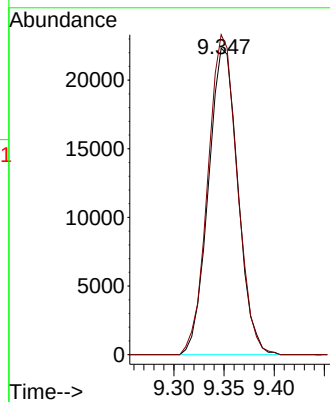
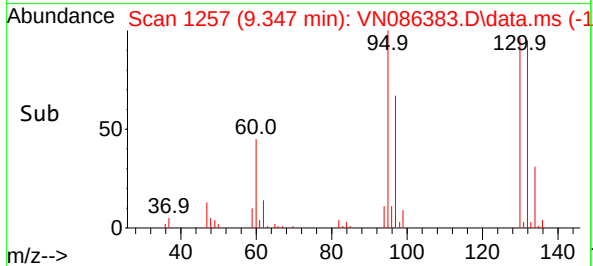
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:130 Resp: 4573
Ion Ratio Lower Upper
130 100
95 104.4 86.6 130.0

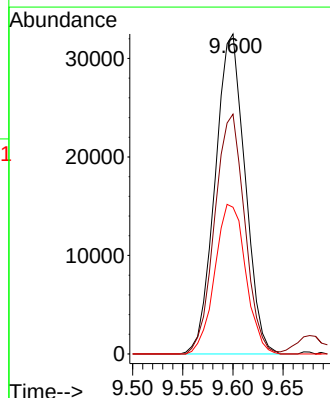
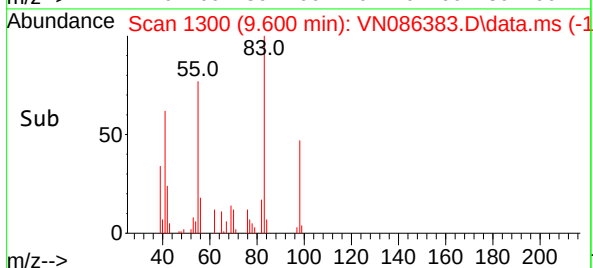
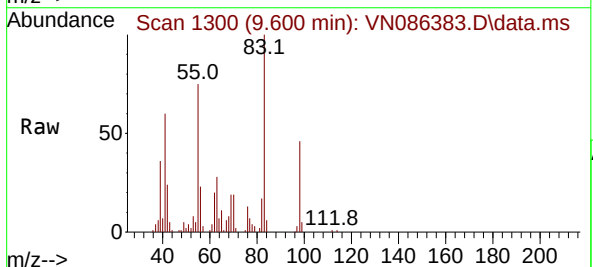
Manual Integrations
APPROVED

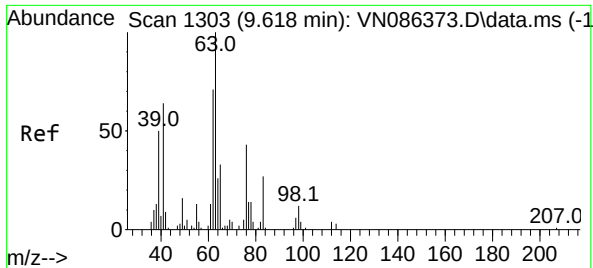
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#38
Methylcyclohexane
Concen: 19.569 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 83 Resp: 67318
Ion Ratio Lower Upper
83 100
55 75.3 37.3 111.9
98 48.2 23.8 71.5





#39

1,2-Dichloropropane

Concen: 19.920 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 63 Resp: 46619

Ion Ratio Lower Upper

63 100

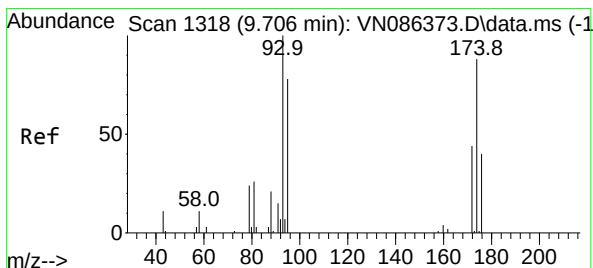
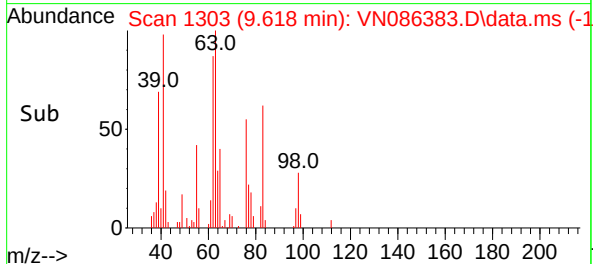
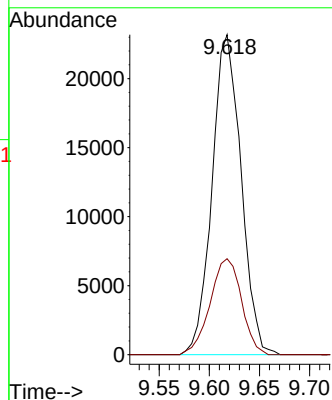
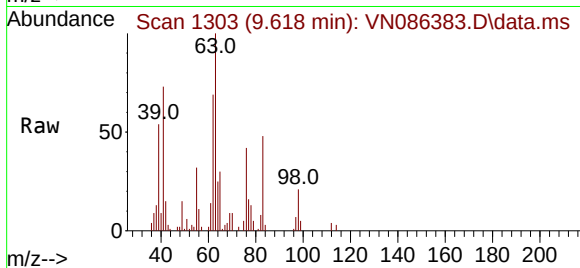
65 30.0 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#40

Dibromomethane

Concen: 20.489 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

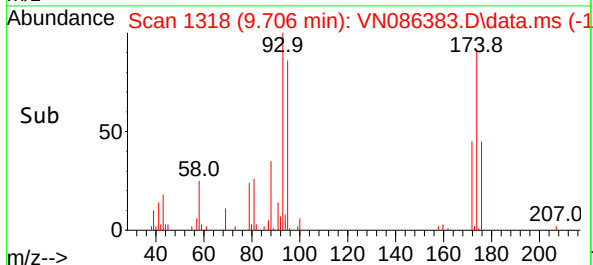
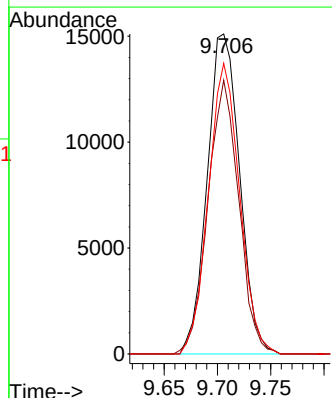
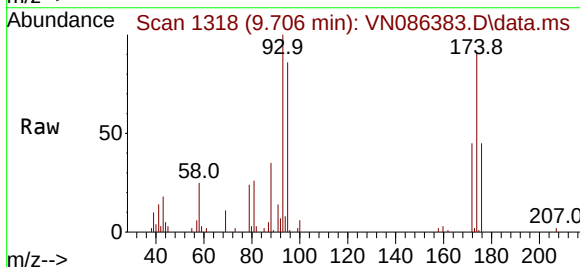
Tgt Ion: 93 Resp: 32067

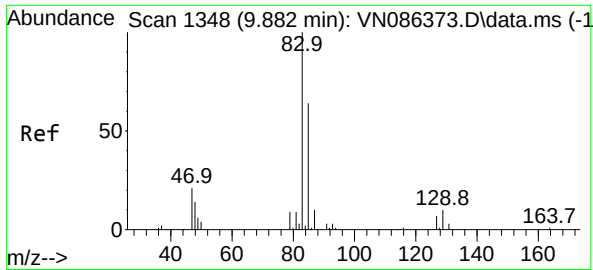
Ion Ratio Lower Upper

93 100

95 81.1 0.0 159.2

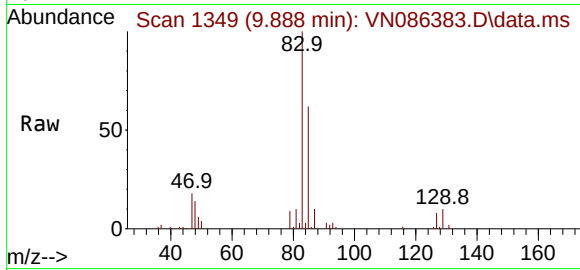
174 87.4 0.0 171.4





#41
Bromodichloromethane
Concen: 20.062 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

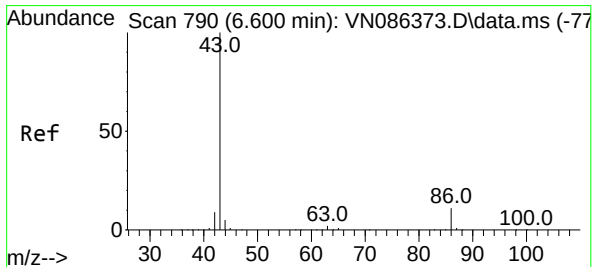
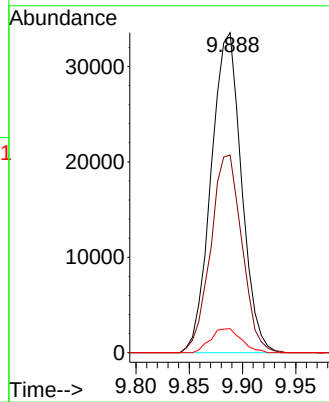
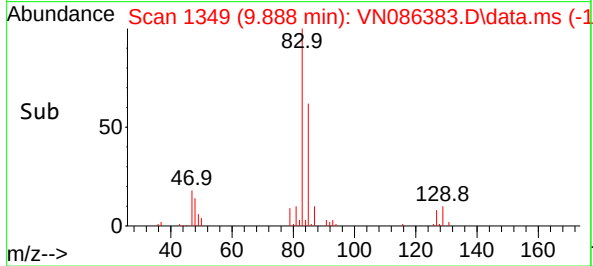
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 83 Resp: 66440
Ion Ratio Lower Upper
83 100
85 61.8 51.1 76.7
127 7.5 5.9 8.9

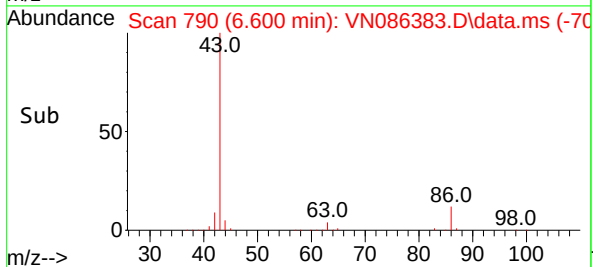
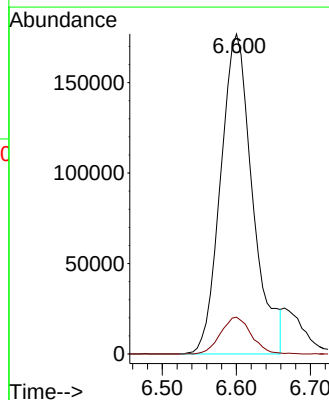
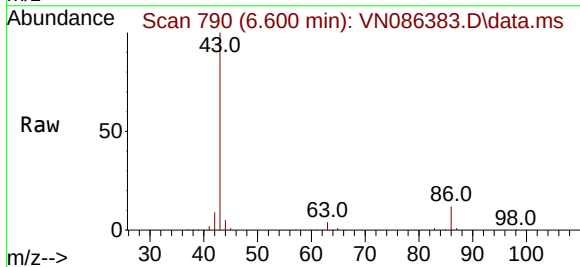
Manual Integrations
APPROVED

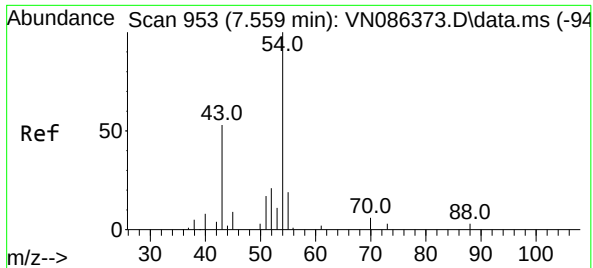
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#42
Vinyl Acetate
Concen: 106.025 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 43 Resp: 530966
Ion Ratio Lower Upper
43 100
86 10.9 8.9 13.3





#43

Ethyl Acetate

Concen: 20.412 ug/l m

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 43 Resp: 58398

Ion Ratio Lower Upper

43

45

100

14.3

11.4

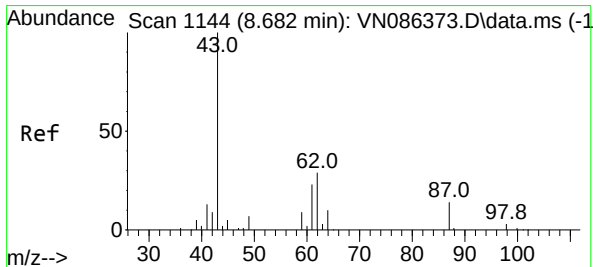
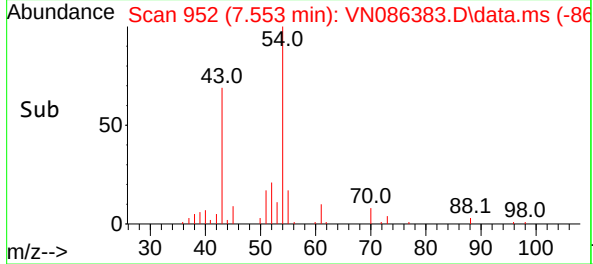
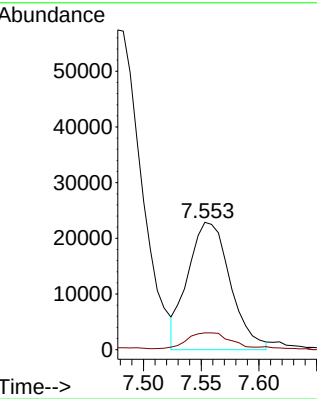
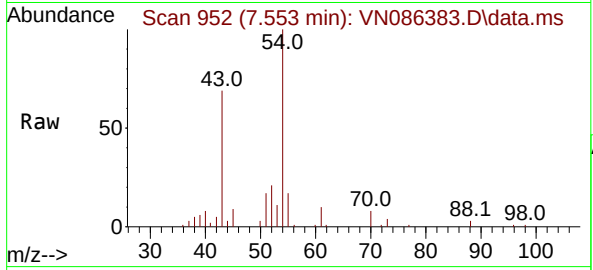
17.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#44

Isopropyl Acetate

Concen: 21.450 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Tgt Ion: 43 Resp: 116469

Ion Ratio Lower Upper

43

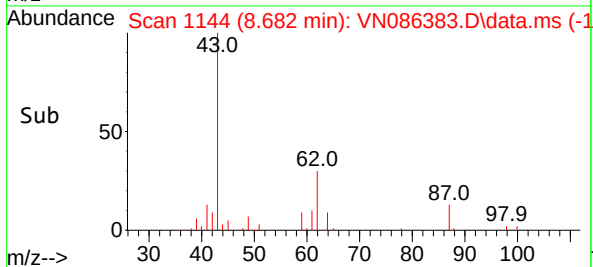
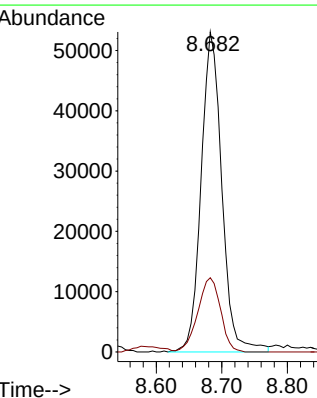
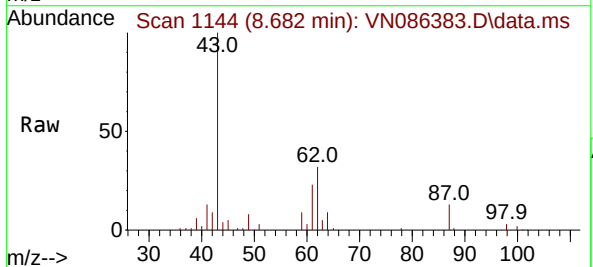
61

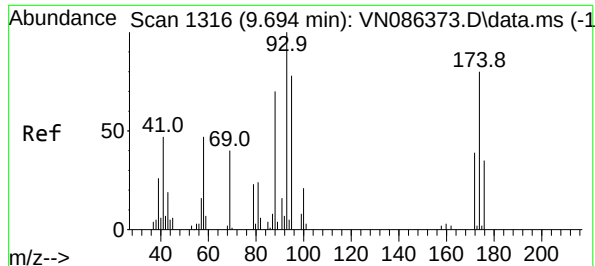
100

25.4

21.0

31.4





#45

1,4-Dioxane

Concen: 458.846 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion: 88 Resp: 19439

Ion Ratio Lower Upper

88 100

43 29.0 24.9 37.3

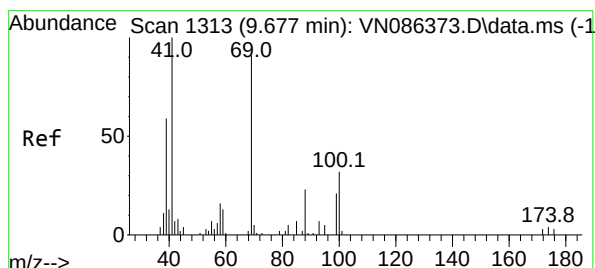
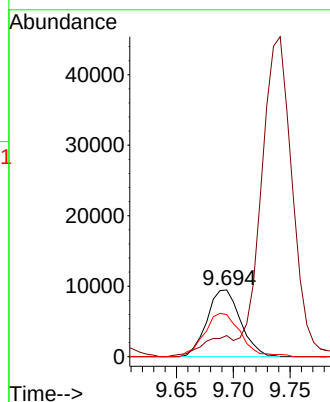
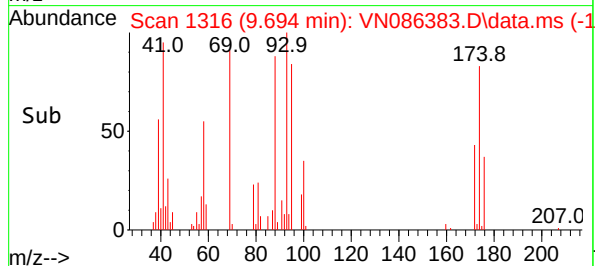
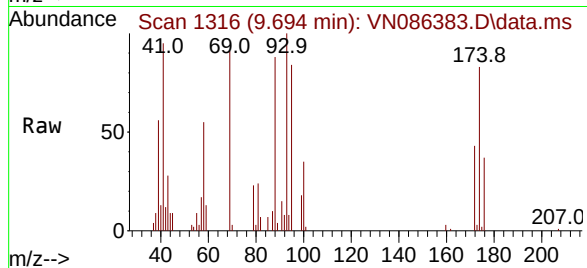
58 69.2 57.8 86.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#46

Methyl methacrylate

Concen: 20.235 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

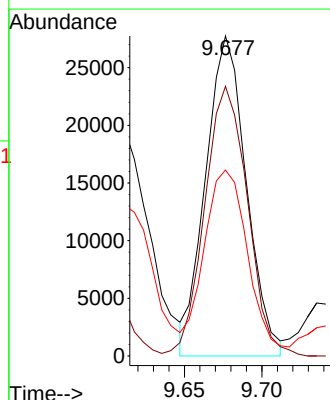
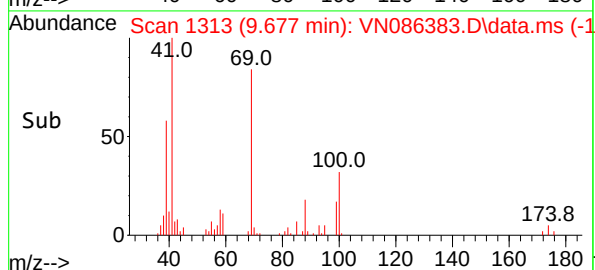
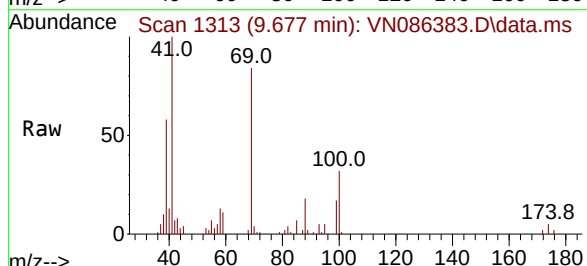
Tgt Ion: 41 Resp: 50681

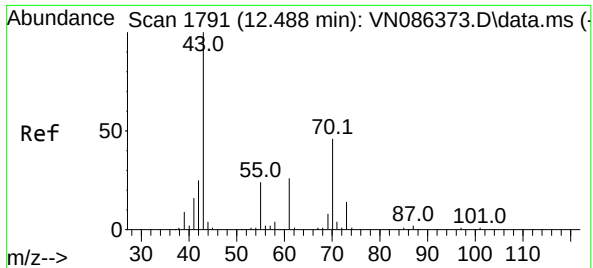
Ion Ratio Lower Upper

41 100

69 85.3 44.1 132.3

39 57.6 30.0 90.1





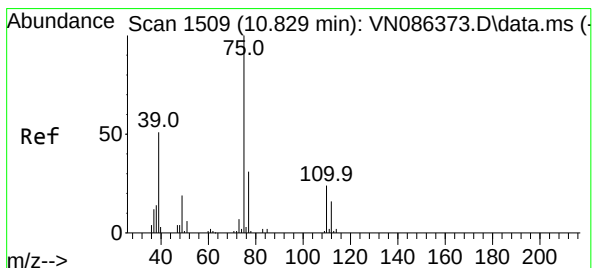
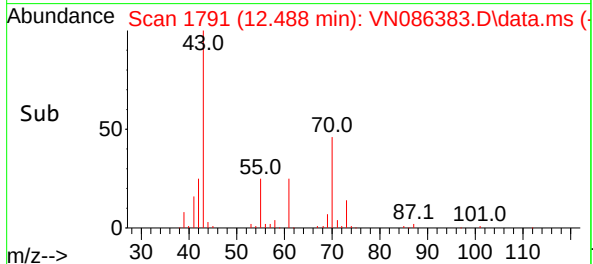
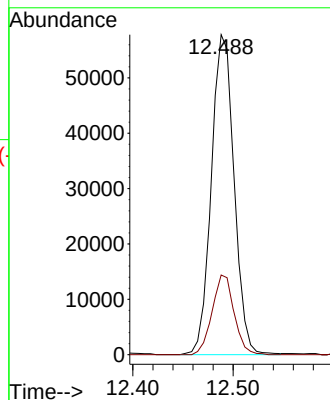
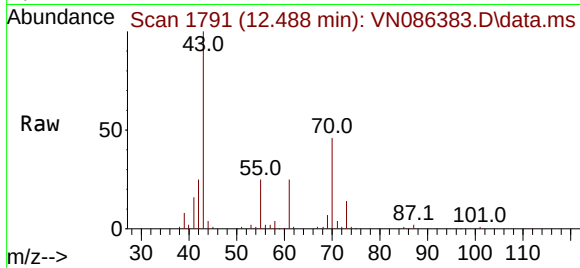
#47
n-amy1 Acetate
Concen: 19.720 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 43 Resp: 91264
Ion Ratio Lower Upper
43 100
55 24.0 19.4 29.0

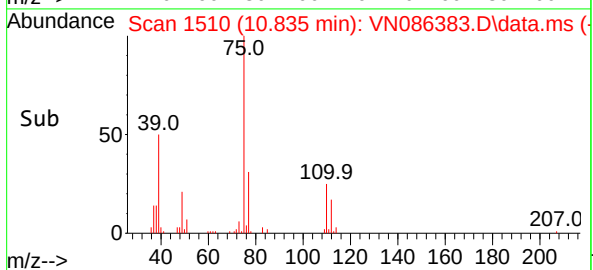
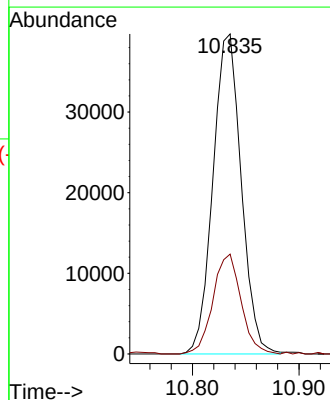
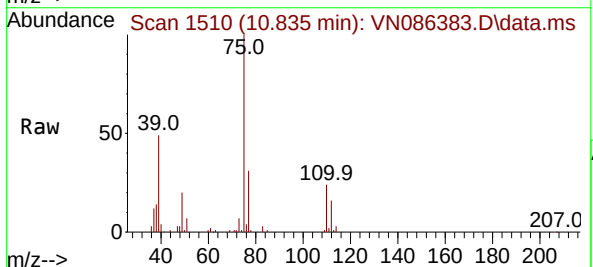
Manual Integrations
APPROVED

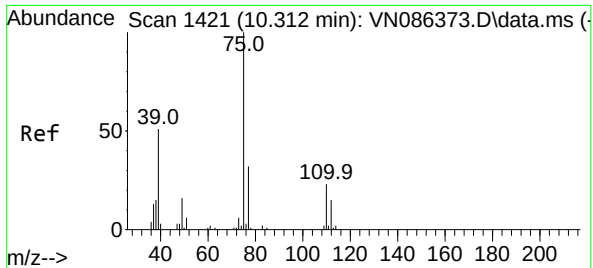
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#48
t-1,3-Dichloropropene
Concen: 19.734 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 75 Resp: 73073
Ion Ratio Lower Upper
75 100
77 31.2 24.4 36.6





#49

cis-1,3-Dichloropropene

Concen: 20.117 ug/l

RT: 10.306 min Scan# 1421

Delta R.T. -0.006 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

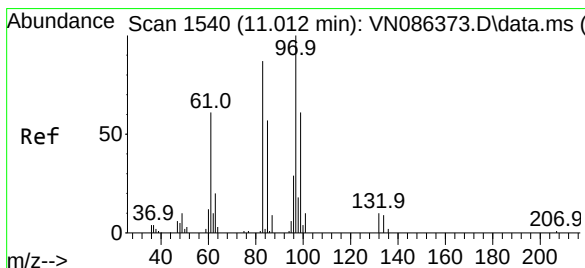
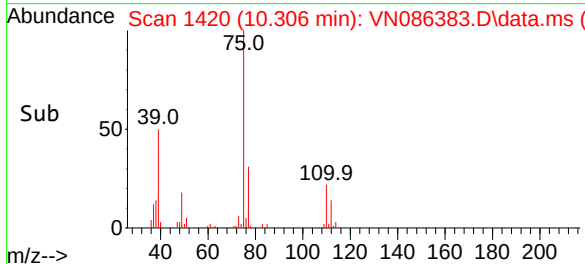
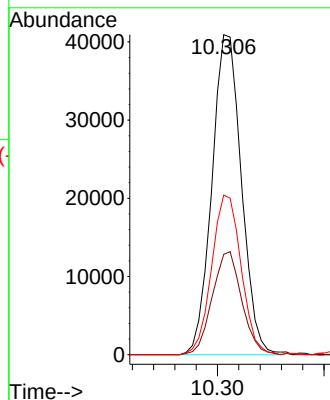
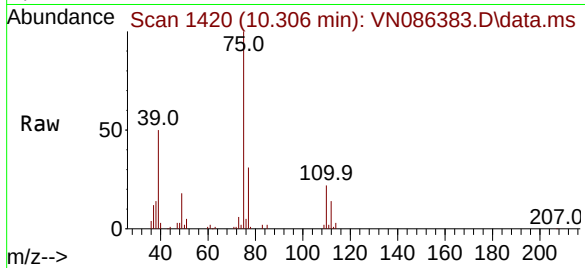
Tgt Ion: 75	Resp: 78554
Ion Ratio	Lower Upper
75 100	
77 31.4	25.6 38.4
39 49.8	40.6 60.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#50

1,1,2-Trichloroethane

Concen: 20.299 ug/l

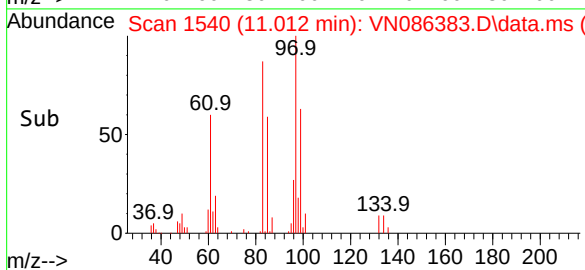
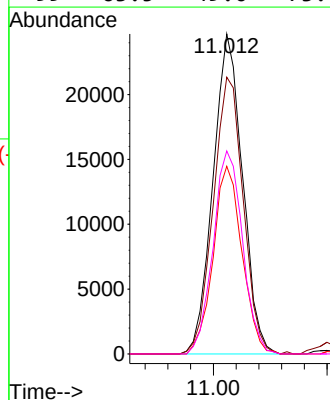
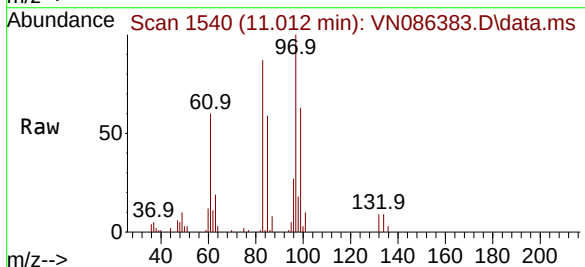
RT: 11.012 min Scan# 1540

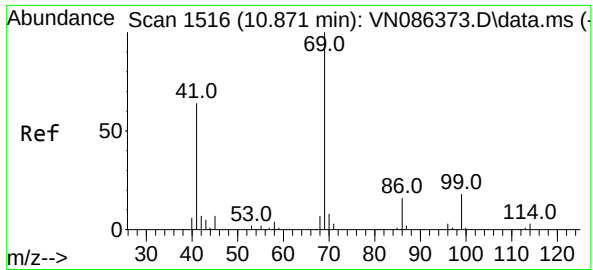
Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

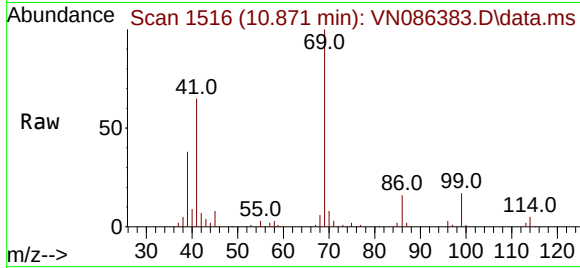
Tgt Ion: 97	Resp: 44377
Ion Ratio	Lower Upper
97 100	
83 86.5	69.3 103.9
85 58.7	45.5 68.3
99 63.5	49.0 73.6





#51
Ethyl methacrylate
Concen: 20.286 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

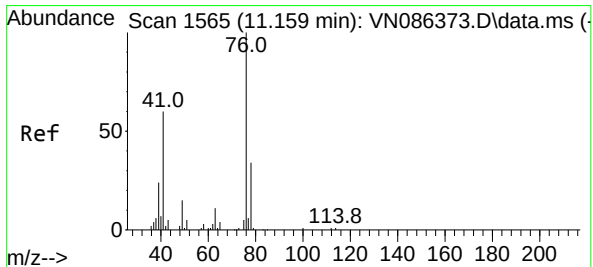
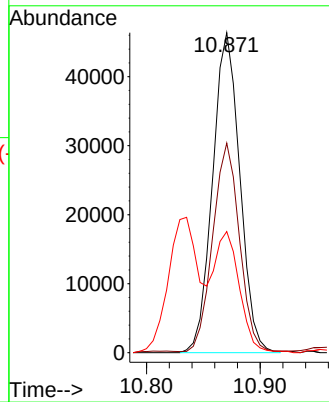
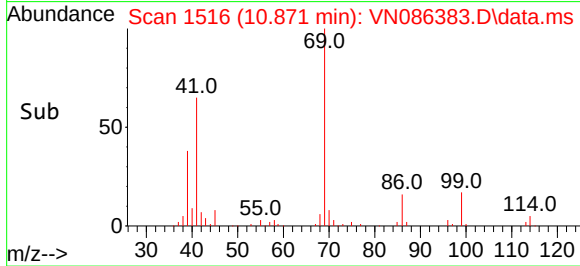
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 69 Resp: 7723
Ion Ratio Lower Upper
69 100
41 65.1 32.3 96.8
39 37.5 19.1 57.1

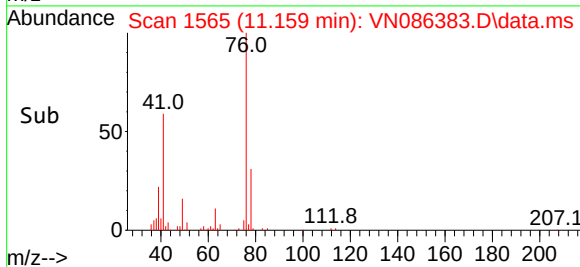
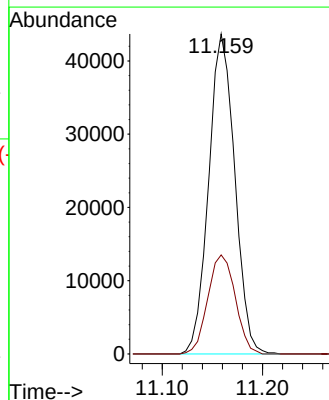
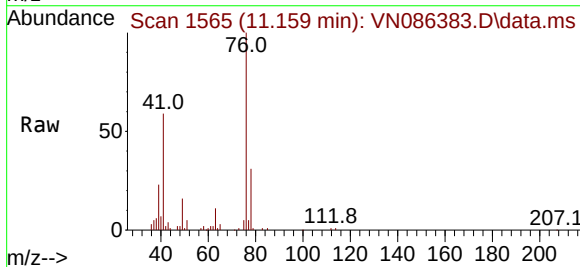
Manual Integrations
APPROVED

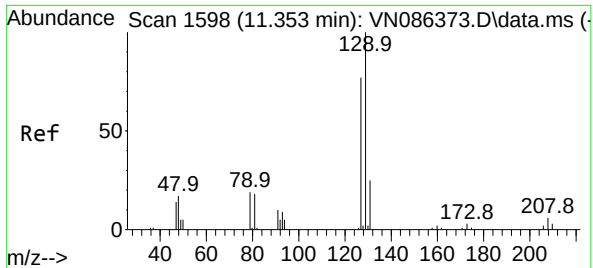
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#52
1,3-Dichloropropane
Concen: 20.434 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

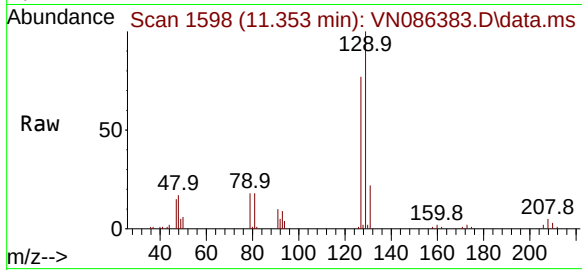
Tgt Ion: 76 Resp: 78950
Ion Ratio Lower Upper
76 100
78 32.5 0.0 65.6





#53
Dibromochloromethane
Concen: 19.845 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

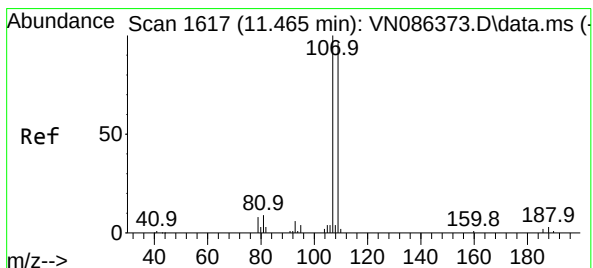
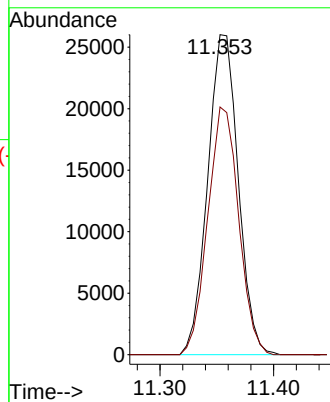
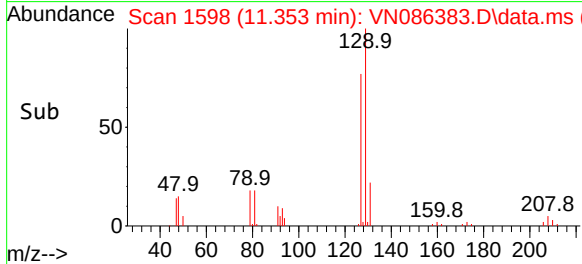
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:129 Resp: 48714
Ion Ratio Lower Upper
129 100
127 78.1 38.8 116.3

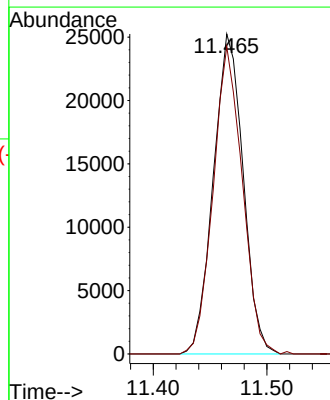
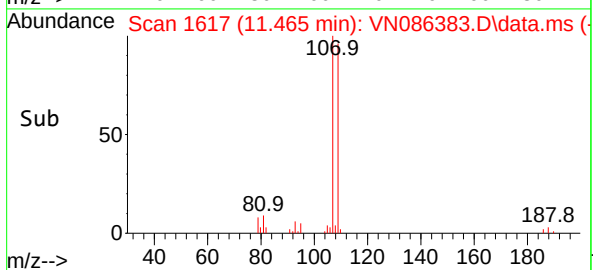
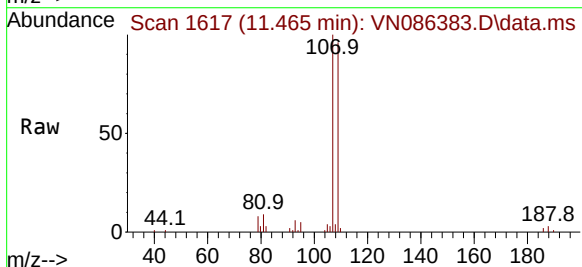
Manual Integrations
APPROVED

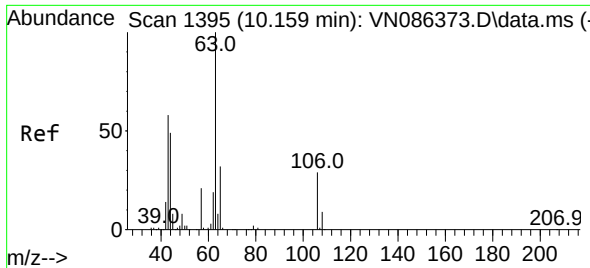
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#54
1,2-Dibromoethane
Concen: 20.661 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

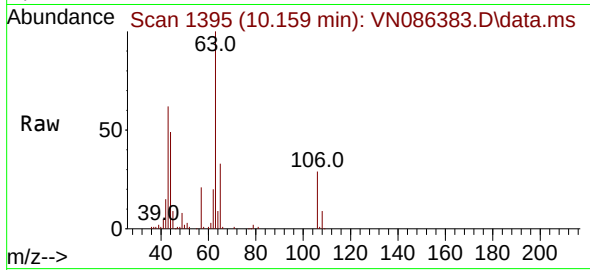
Tgt Ion:107 Resp: 45924
Ion Ratio Lower Upper
107 100
109 94.0 75.4 113.0





#55
2-Chloroethyl vinyl ether
Concen: 95.818 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

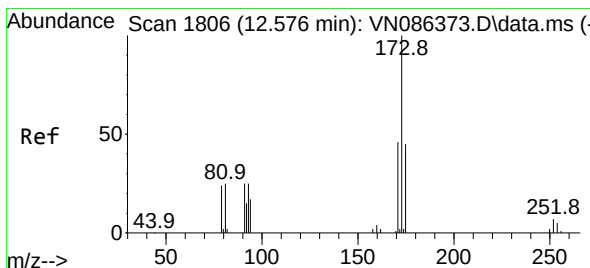
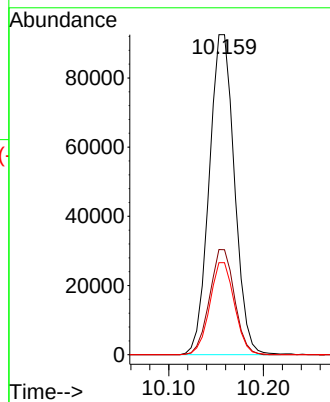
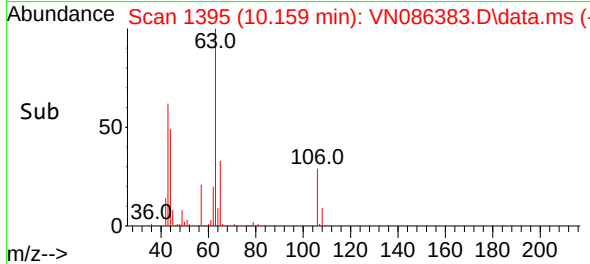
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 63 Resp: 171519
Ion Ratio Lower Upper
63 100
65 32.4 25.7 38.5
106 28.2 22.3 33.5

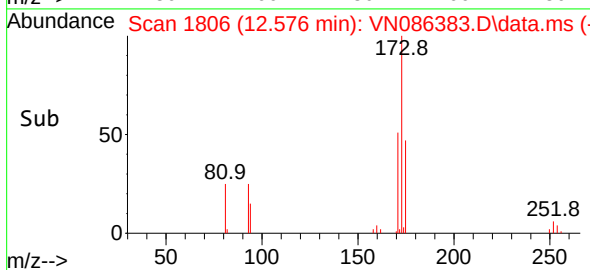
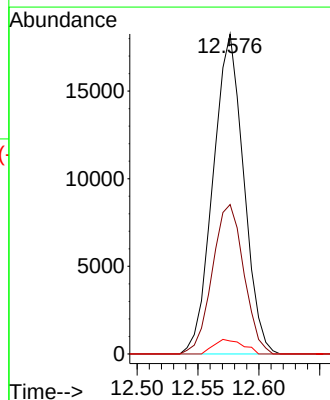
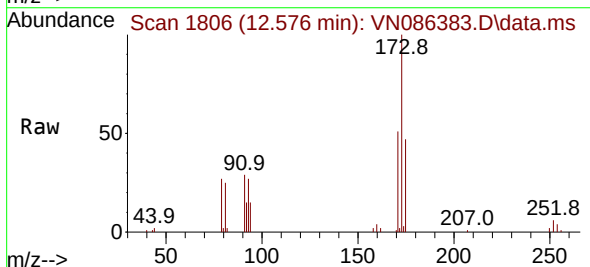
Manual Integrations
APPROVED

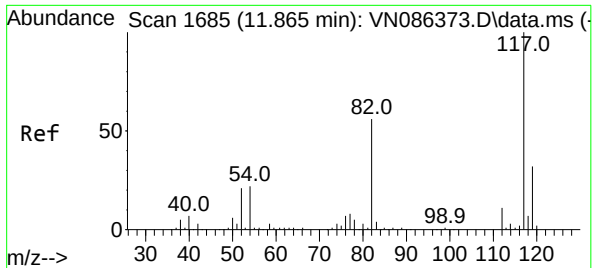
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#56
Bromoform
Concen: 20.034 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion:173 Resp: 31914
Ion Ratio Lower Upper
173 100
175 48.0 39.0 58.6
254 4.3 3.8 5.6





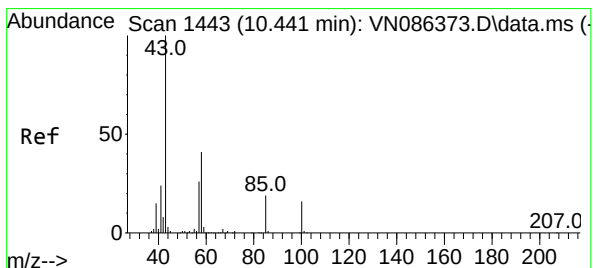
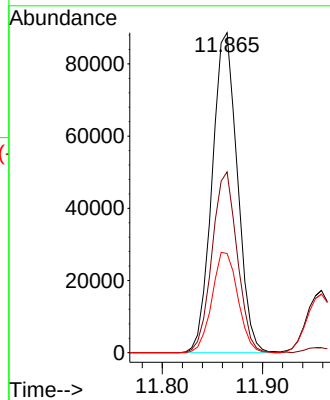
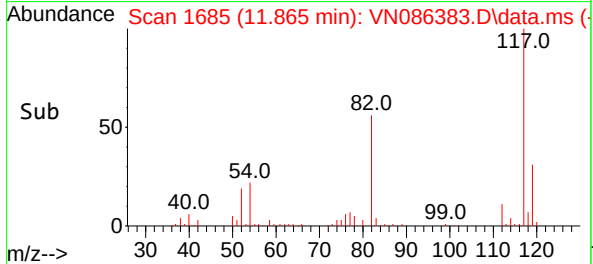
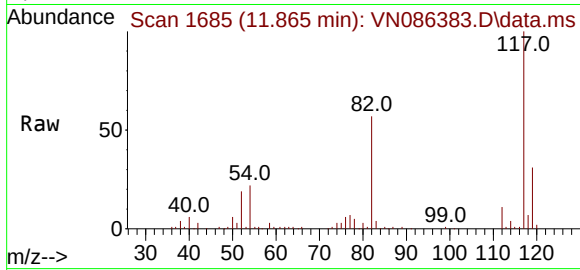
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:117 Resp: 15557
Ion Ratio Lower Upper
117 100
82 56.3 45.5 68.3
119 32.0 25.9 38.9

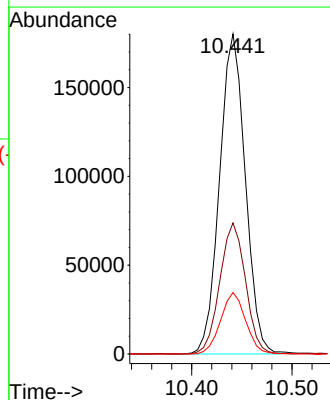
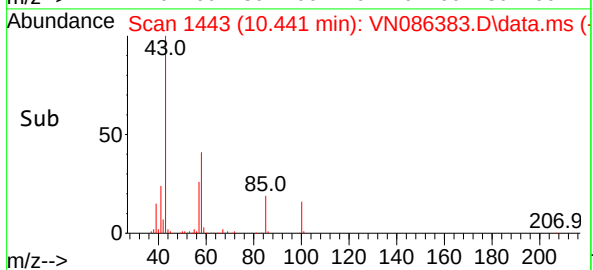
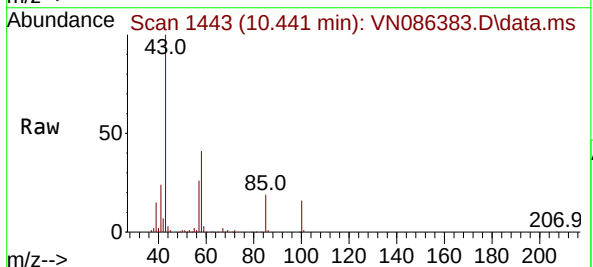
Manual Integrations
APPROVED

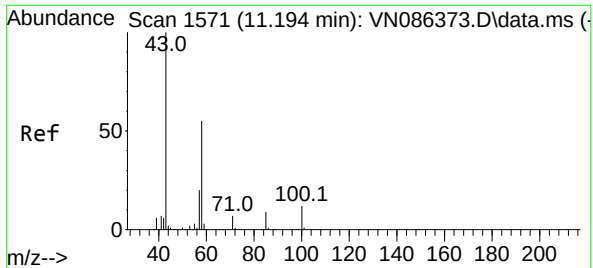
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#58
4-Methyl-2-Pentanone
Concen: 106.712 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

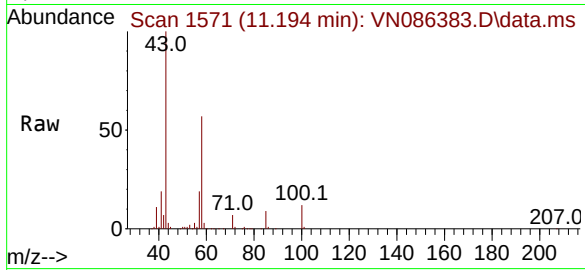
Tgt Ion: 43 Resp: 321264
Ion Ratio Lower Upper
43 100
58 40.8 33.0 49.6
85 18.7 14.9 22.3





#59
2-Hexanone
Concen: 106.358 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

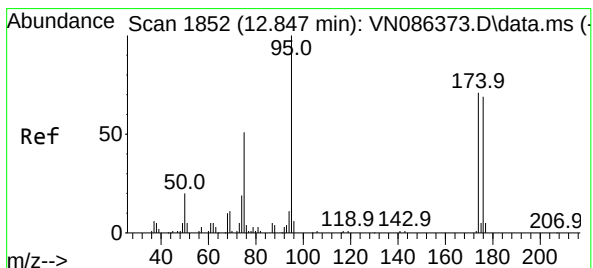
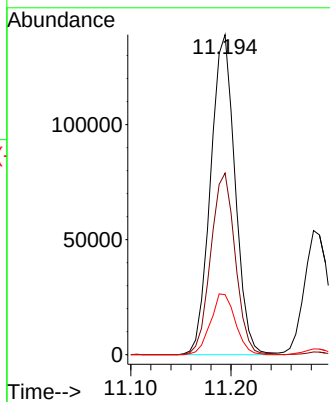
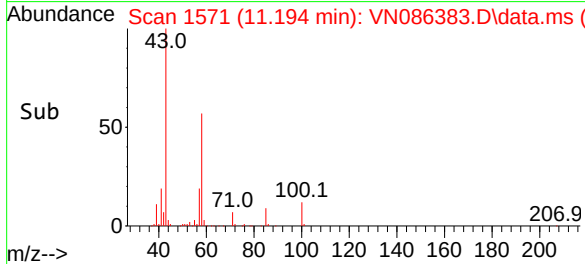
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 43 Resp: 23596
Ion Ratio Lower Upper
43 100
58 56.6 45.0 67.6
57 19.2 15.5 23.3

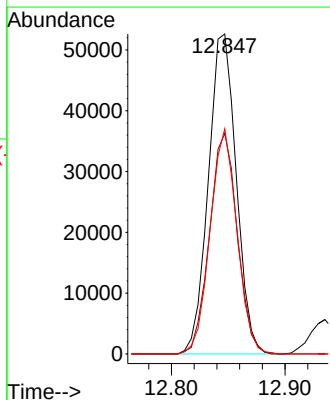
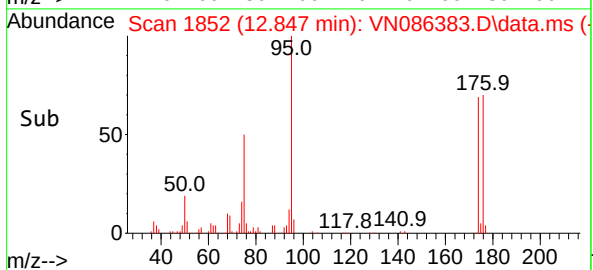
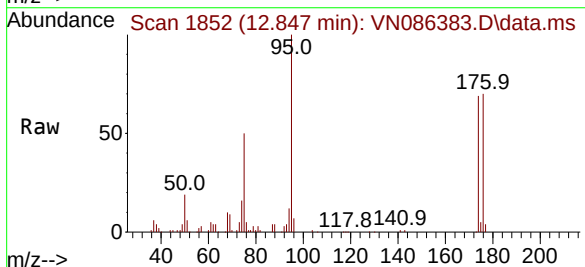
Manual Integrations
APPROVED

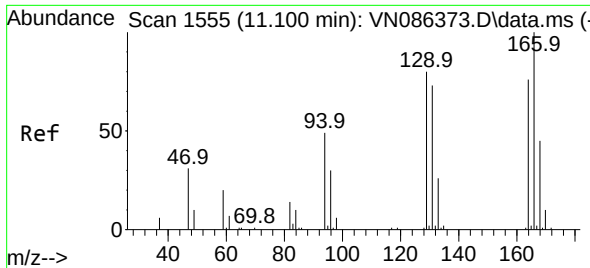
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#60
4-Bromofluorobenzene
Concen: 29.391 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

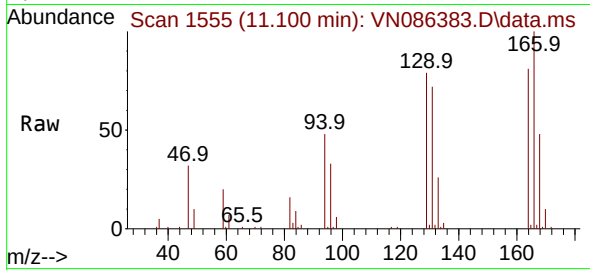
Tgt Ion: 95 Resp: 89869
Ion Ratio Lower Upper
95 100
174 68.6 56.6 84.8
176 67.4 53.3 79.9





#61
Tetrachloroethene
Concen: 19.559 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

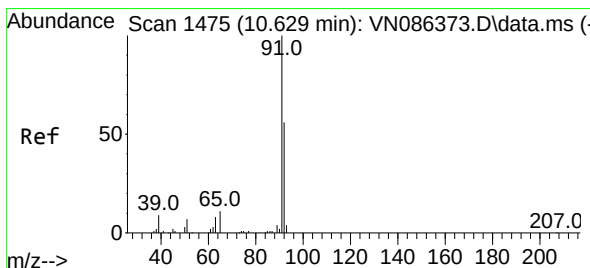
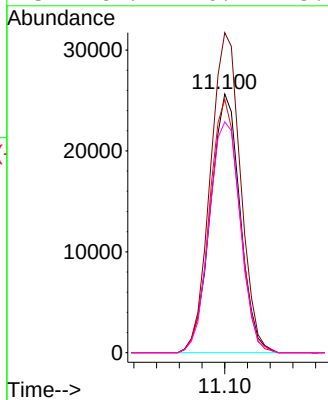
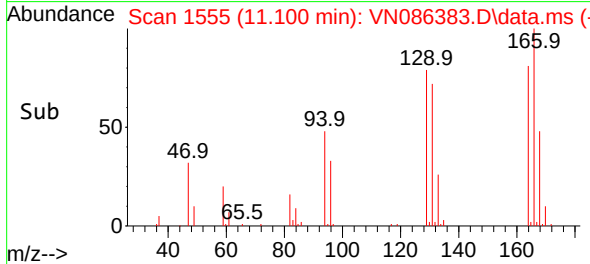
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:164 Resp: 4641
Ion Ratio Lower Upper
164 100
166 123.7 105.0 157.4
129 97.9 83.9 125.9
131 89.2 76.7 115.1

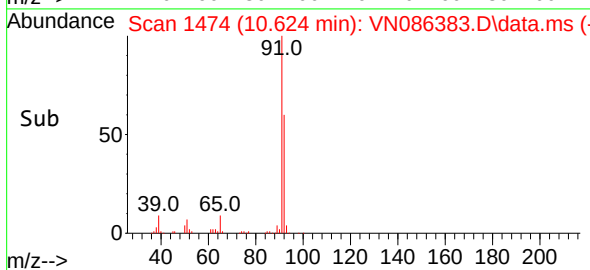
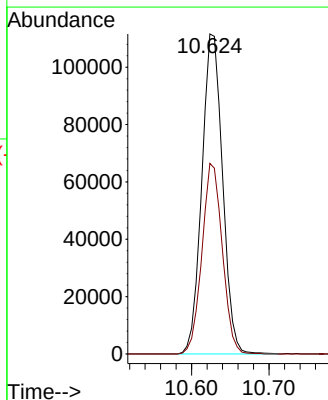
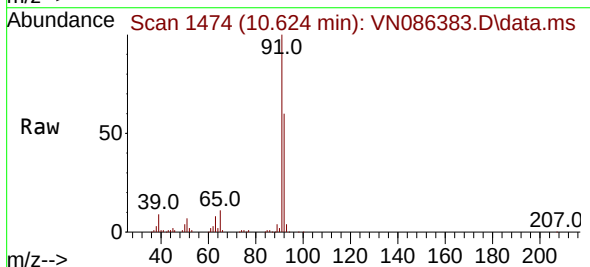
Manual Integrations
APPROVED

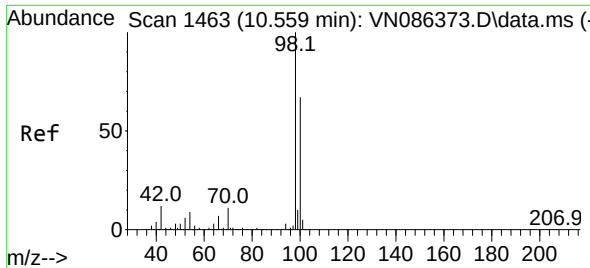
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#62
Toluene
Concen: 19.955 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

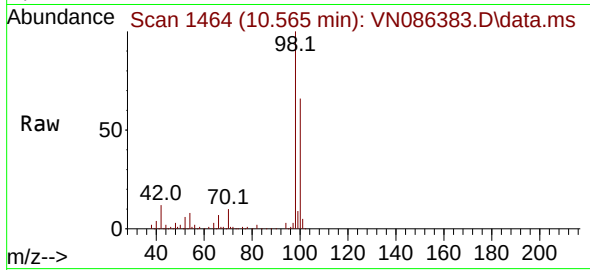
Tgt Ion: 91 Resp: 207801
Ion Ratio Lower Upper
91 100
92 58.5 45.7 68.5





#63
Toluene-d8
Concen: 29.980 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

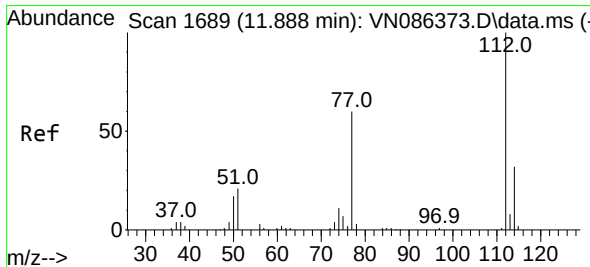
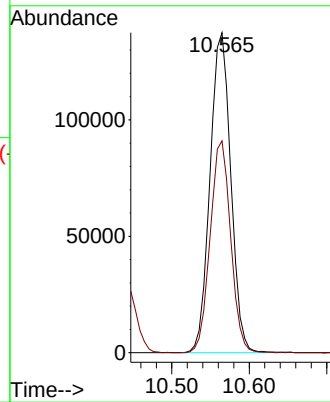
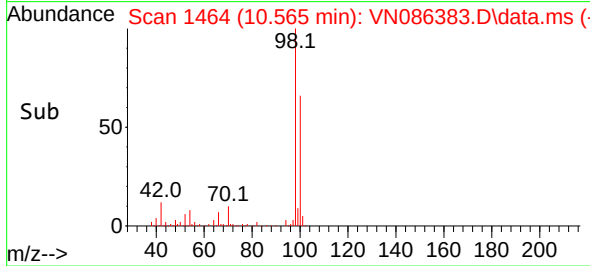
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 98 Resp: 25659
Ion Ratio Lower Upper
98 100
100 65.3 53.1 79.7

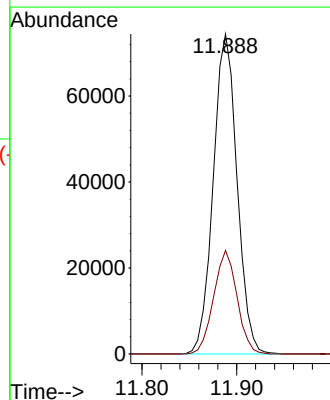
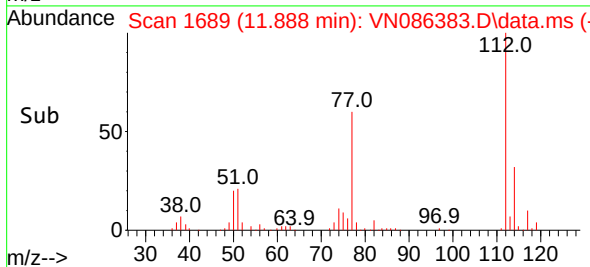
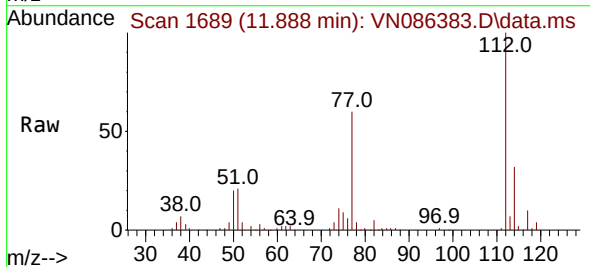
Manual Integrations
APPROVED

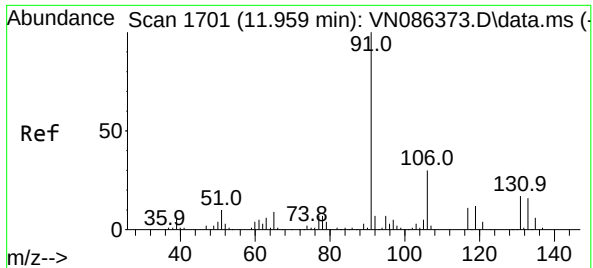
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#64
Chlorobenzene
Concen: 20.041 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion:112 Resp: 130041
Ion Ratio Lower Upper
112 100
114 32.4 25.6 38.4





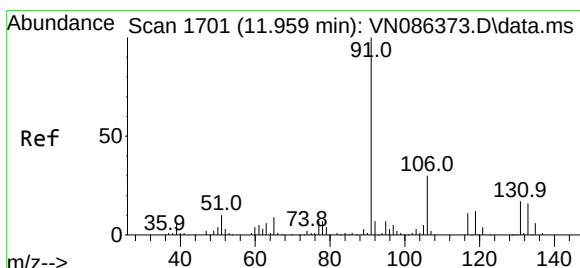
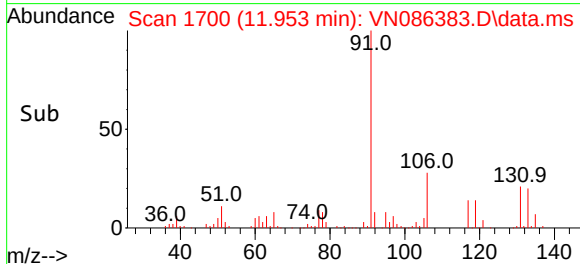
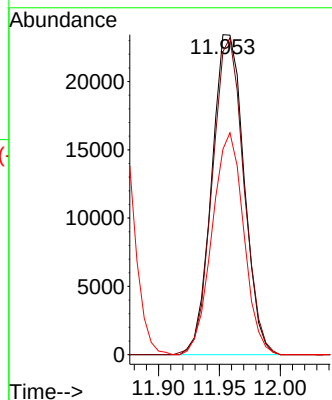
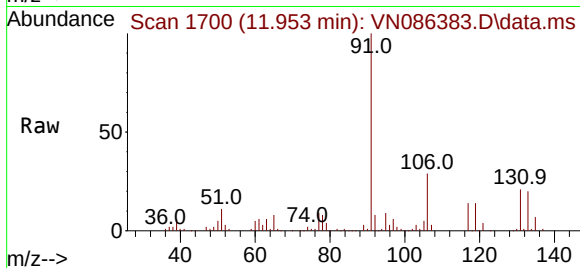
#65
1,1,1,2-Tetrachloroethane
Concen: 19.914 ug/l
RT: 11.953 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:131 Resp: 4320
Ion Ratio Lower Upper
131 100
133 96.4 0.0 191.4
119 67.8 0.0 133.6

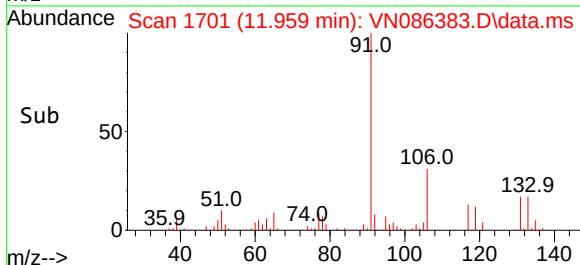
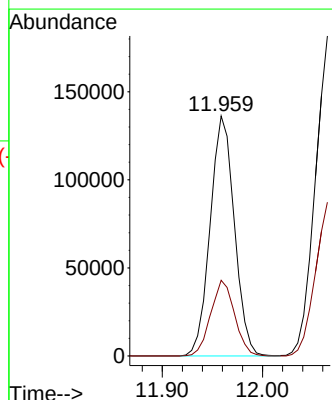
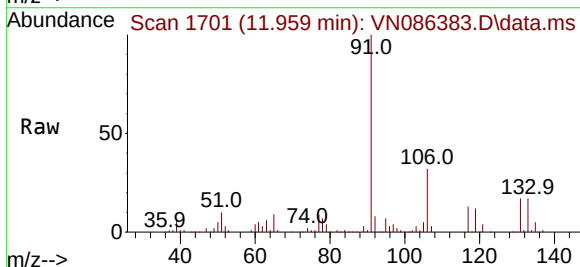
Manual Integrations
APPROVED

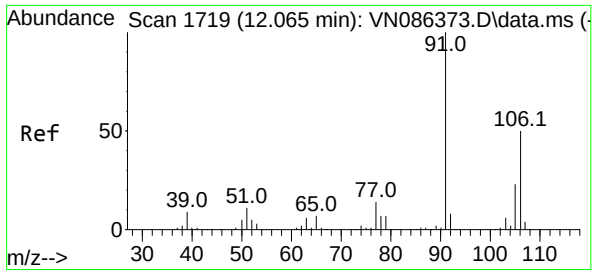
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#66
Ethyl Benzene
Concen: 19.513 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 91 Resp: 228725
Ion Ratio Lower Upper
91 100
106 31.6 24.3 36.5





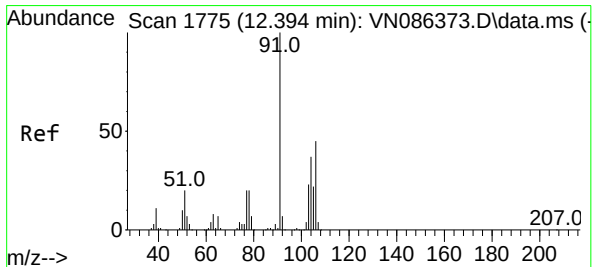
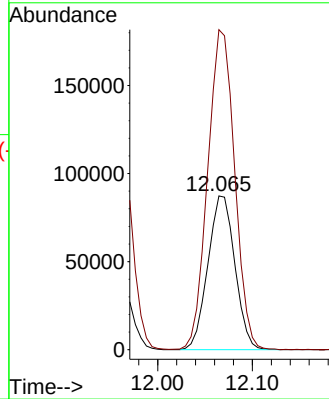
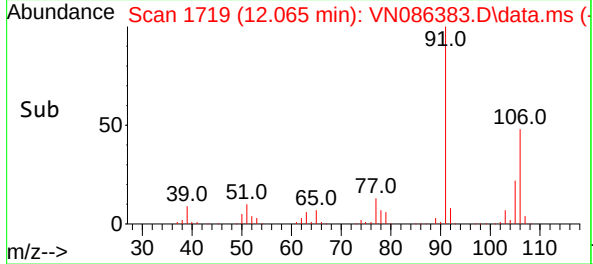
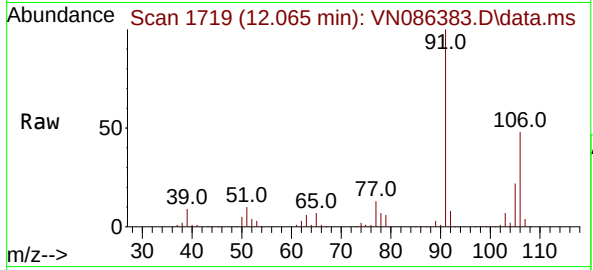
#67
m/p-Xylenes
Concen: 38.856 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:106 Resp: 17281
Ion Ratio Lower Upper
106 100
91 207.9 162.6 243.8

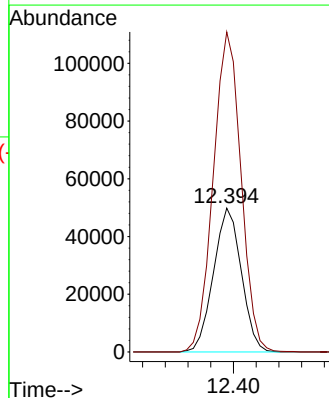
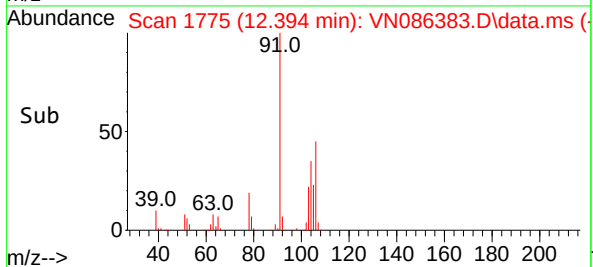
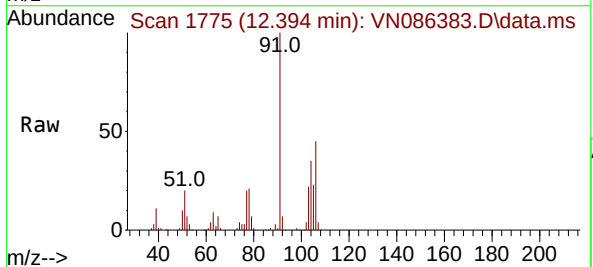
Manual Integrations
APPROVED

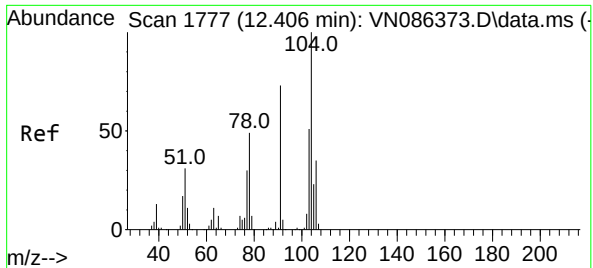
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#68
o-Xylene
Concen: 19.470 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion:106 Resp: 84784
Ion Ratio Lower Upper
106 100
91 221.5 110.6 331.6





#69

Styrene

Concen: 19.550 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion:104 Resp: 144290

Ion Ratio Lower Upper

104 100

78 50.1 40.2 60.4

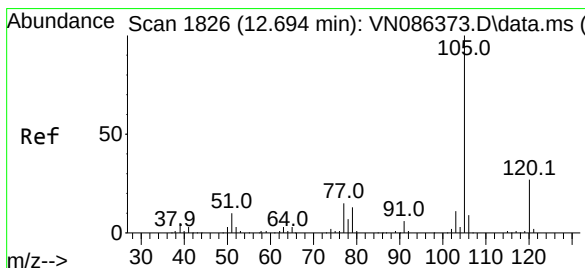
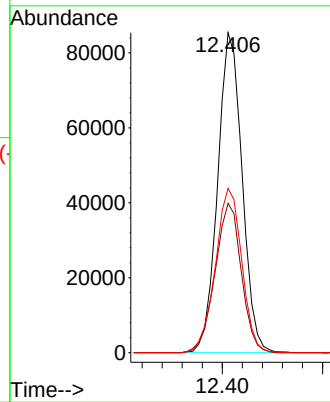
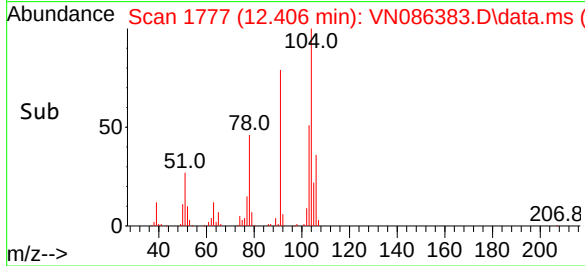
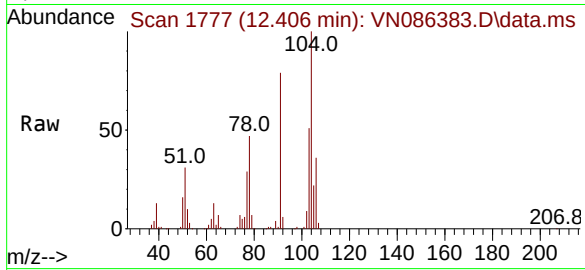
103 55.3 43.8 65.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#70

Isopropylbenzene

Concen: 19.952 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086383.D

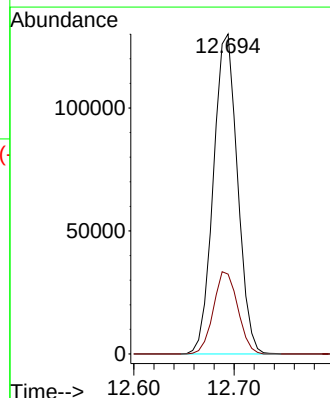
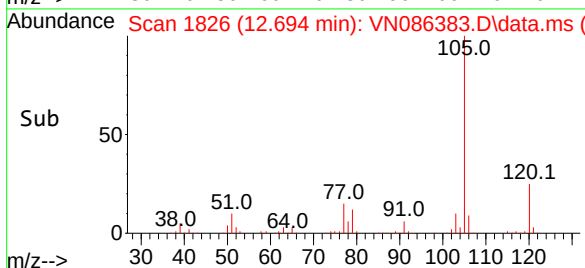
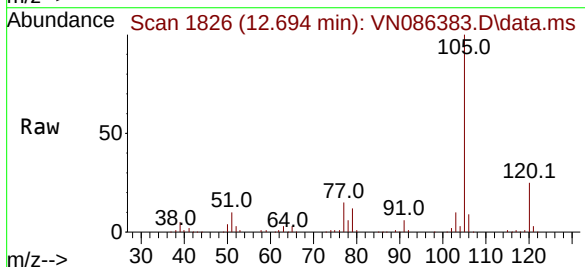
Acq: 23 Apr 2025 15:36

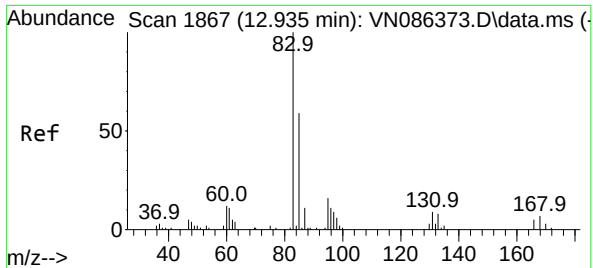
Tgt Ion:105 Resp: 216881

Ion Ratio Lower Upper

105 100

120 26.0 18.2 33.8





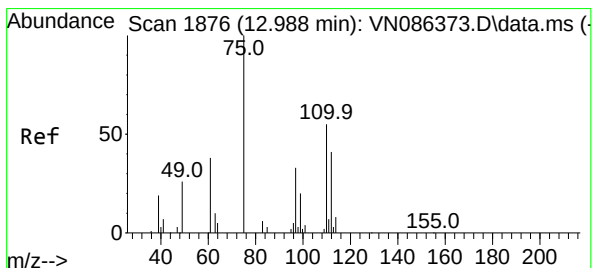
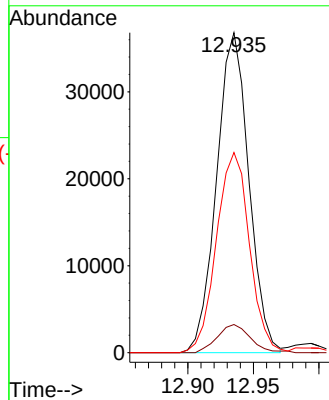
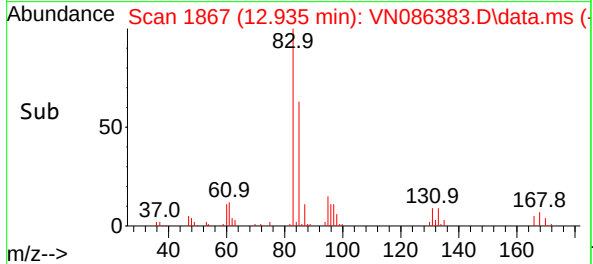
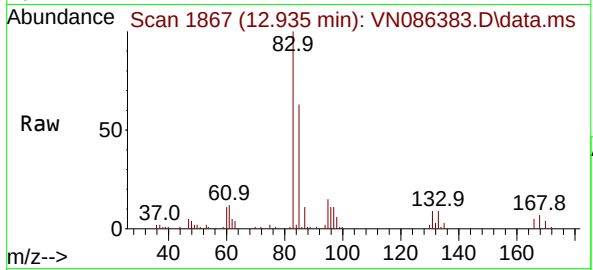
#71
1,1,2,2-Tetrachloroethane
Concen: 21.960 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 83 Resp: 6285
Ion Ratio Lower Upper
83 100
131 9.0 4.5 13.7
85 64.2 31.7 95.1

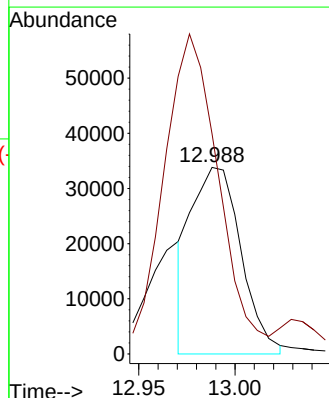
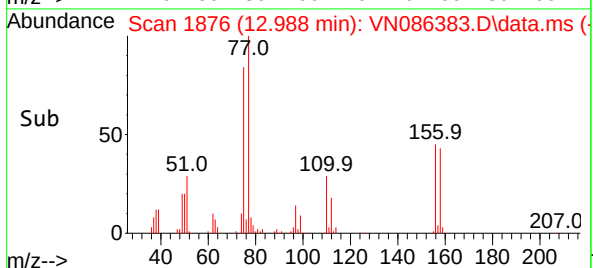
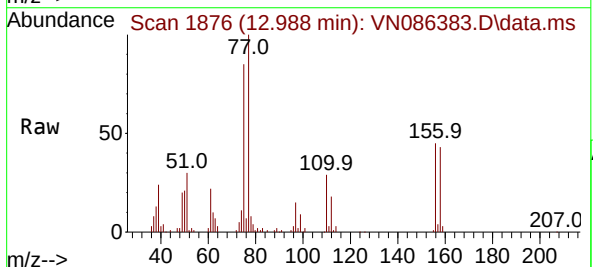
Manual Integrations
APPROVED

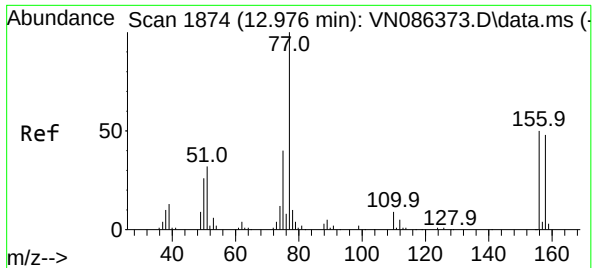
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#72
1,2,3-Trichloropropane
Concen: 24.395 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

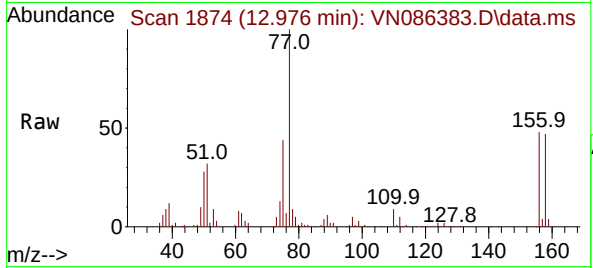
Tgt Ion: 75 Resp: 60875
Ion Ratio Lower Upper
75 100
77 189.7 0.0 464.4





#73
Bromobenzene
Concen: 20.039 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

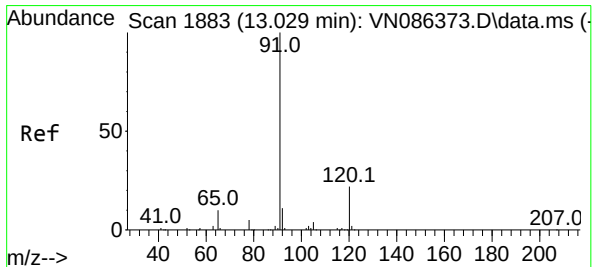
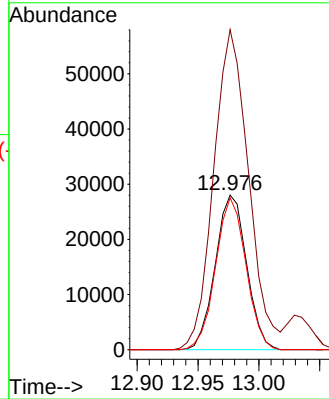
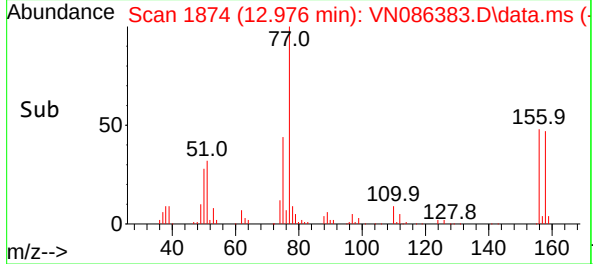
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:156 Resp: 50079
Ion Ratio Lower Upper
156 100
77 230.6 0.0 463.4
158 95.0 0.0 191.8

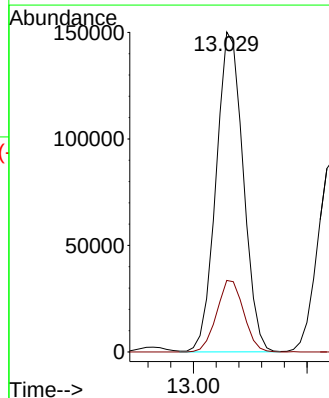
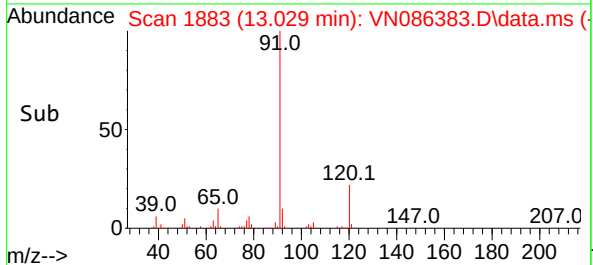
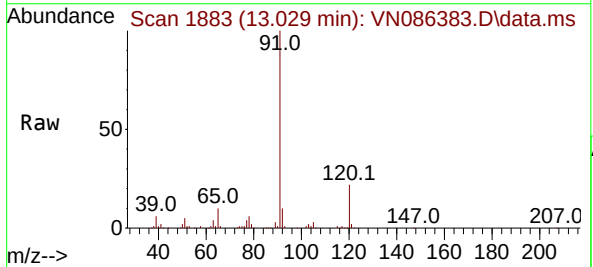
Manual Integrations
APPROVED

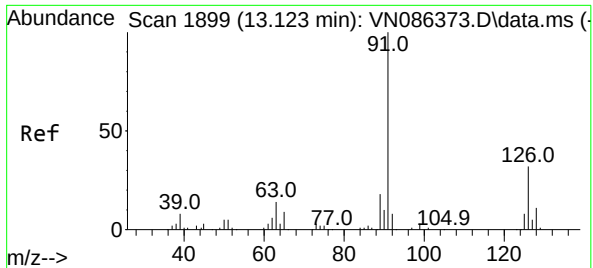
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#74
n-propylbenzene
Concen: 19.303 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 91 Resp: 249334
Ion Ratio Lower Upper
91 100
120 22.2 0.0 43.8





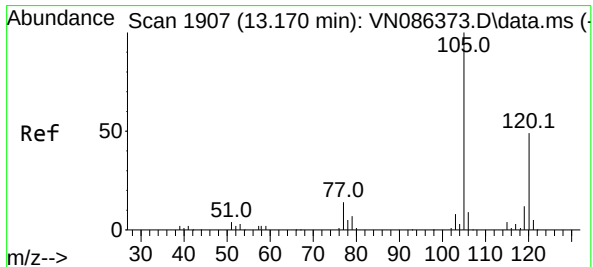
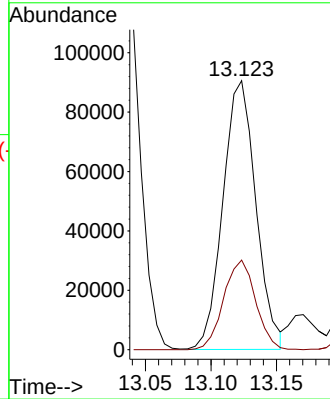
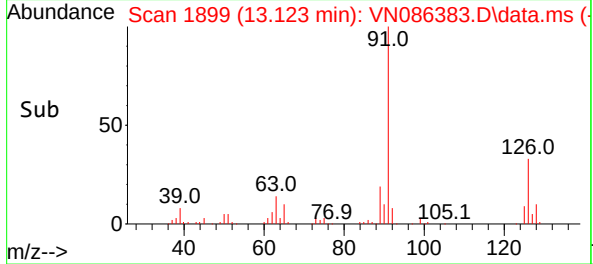
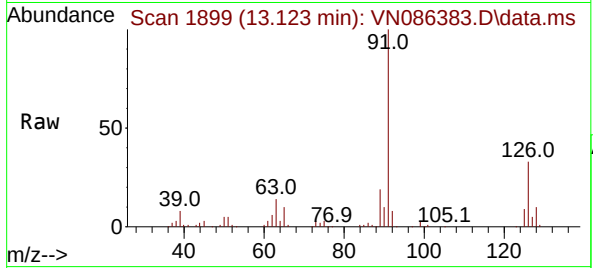
#75
2-Chlorotoluene
Concen: 19.668 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 91 Resp: 158594
Ion Ratio Lower Upper
91 100
126 32.3 0.0 65.0

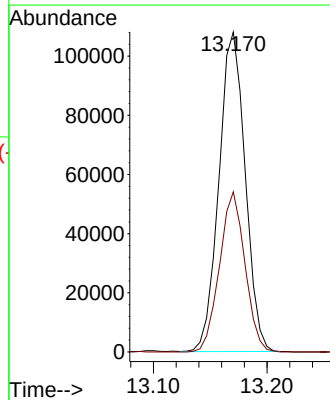
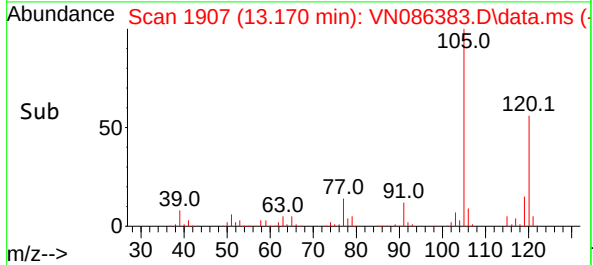
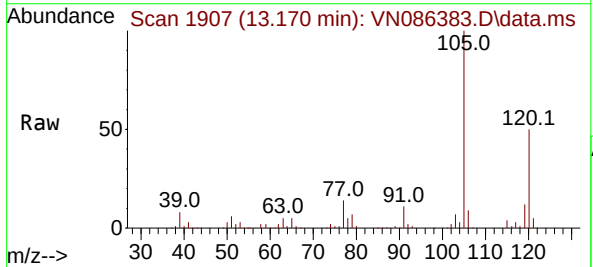
Manual Integrations
APPROVED

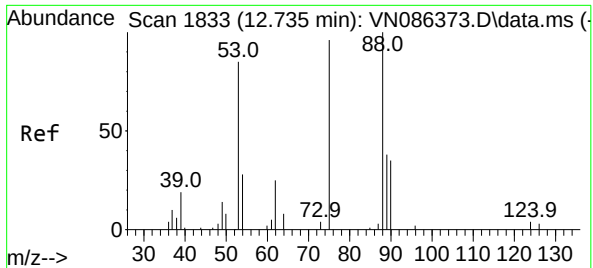
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.411 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

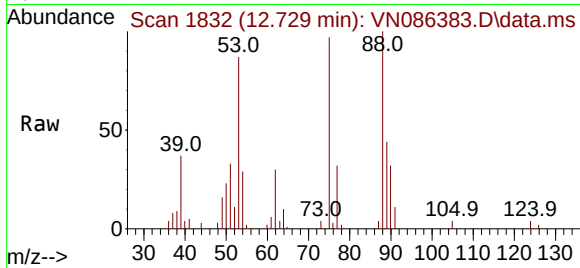
Tgt Ion:105 Resp: 173133
Ion Ratio Lower Upper
105 100
120 48.6 0.0 97.6





#77
t-1,4-Dichloro-2-butene
Concen: 19.581 ug/l
RT: 12.729 min Scan# 1833
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

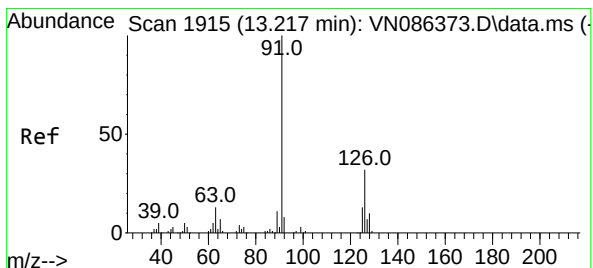
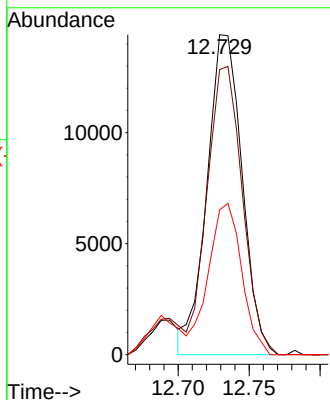
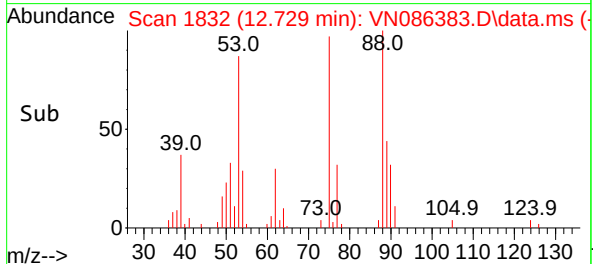
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion: 75 Resp: 2479
Ion Ratio Lower Upper
75 100
53 89.1 46.0 138.0
89 45.3 21.6 64.6

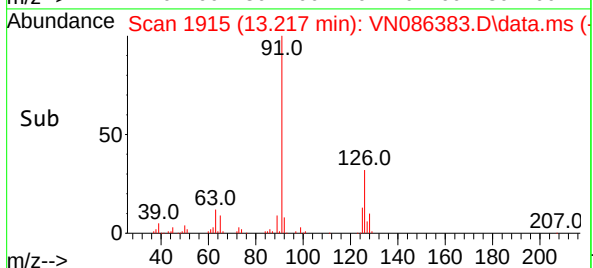
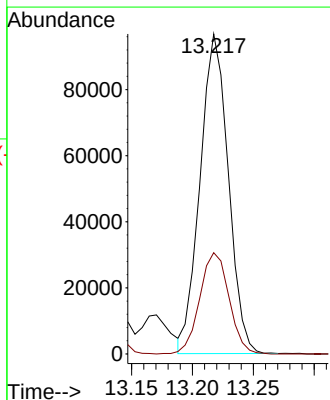
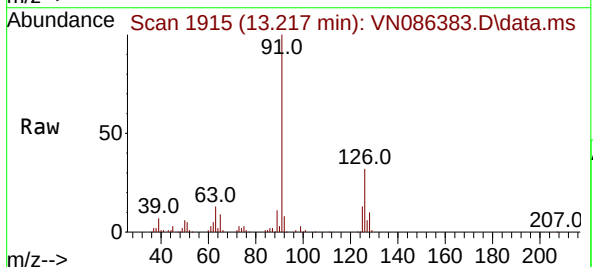
Manual Integrations
APPROVED

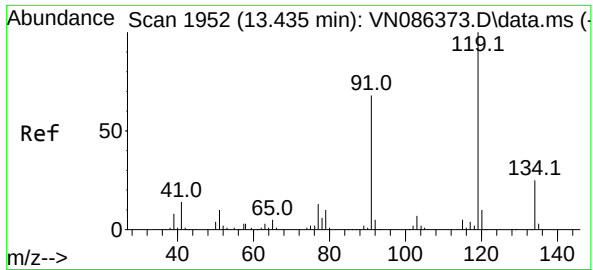
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#78
4-Chlorotoluene
Concen: 19.340 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 91 Resp: 155927
Ion Ratio Lower Upper
91 100
126 32.9 0.0 65.4





#79

tert-butylbenzene

Concen: 19.562 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086383.D

Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01

Tgt Ion:119 Resp: 14942

Ion Ratio Lower Upper

119 100

91 68.6 0.0 137.4

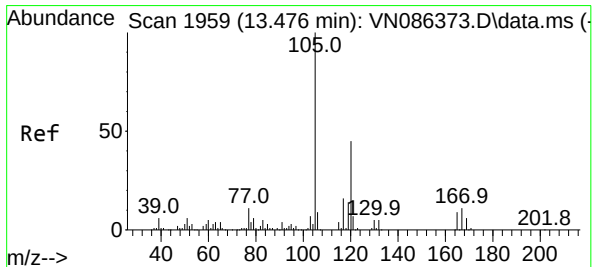
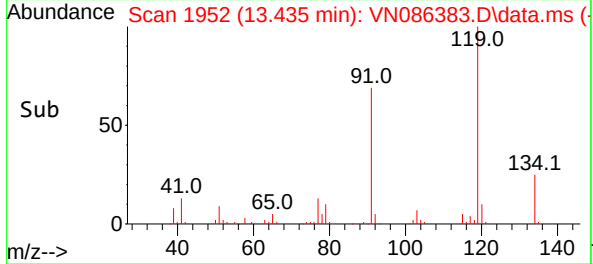
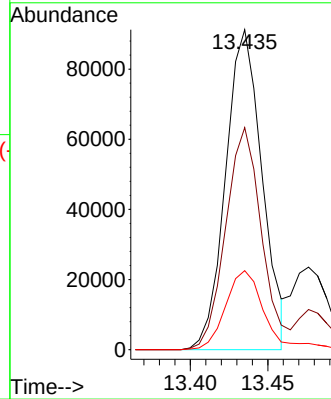
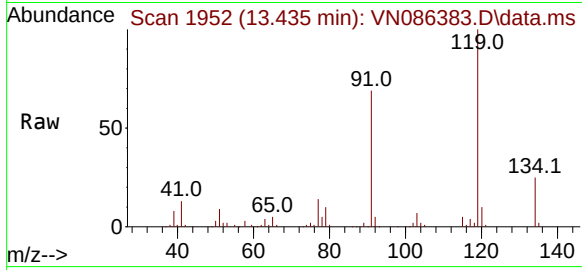
134 24.9 0.0 49.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#80

1,2,4-Trimethylbenzene

Concen: 19.194 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086383.D

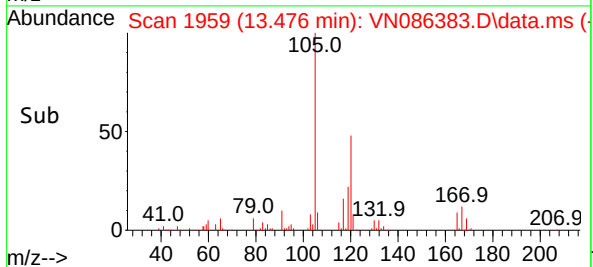
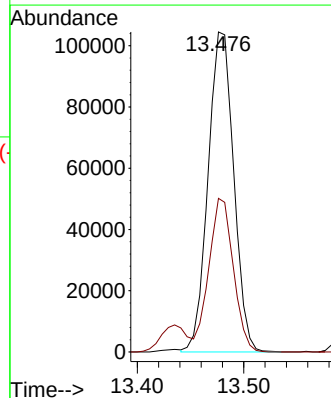
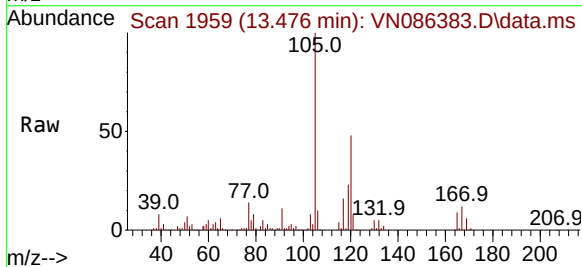
Acq: 23 Apr 2025 15:36

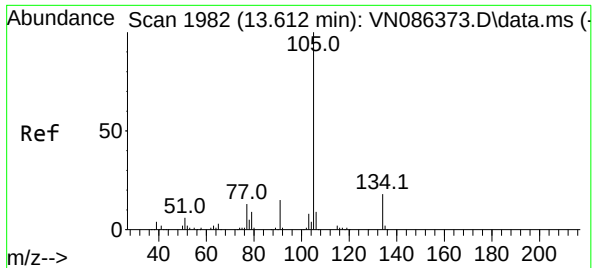
Tgt Ion:105 Resp: 174841

Ion Ratio Lower Upper

105 100

120 45.7 0.0 87.6





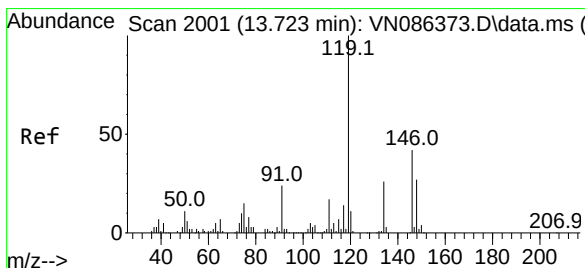
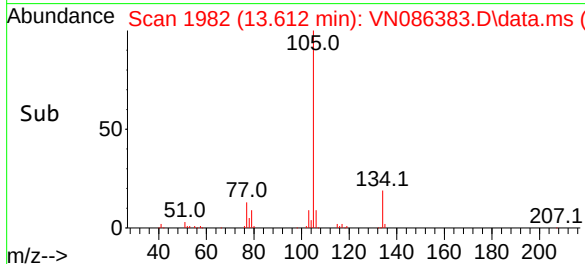
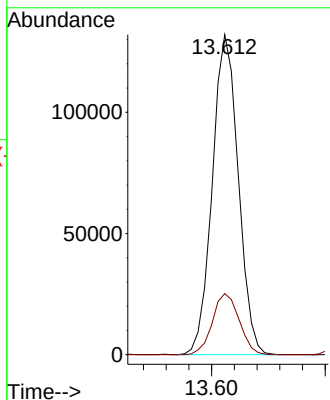
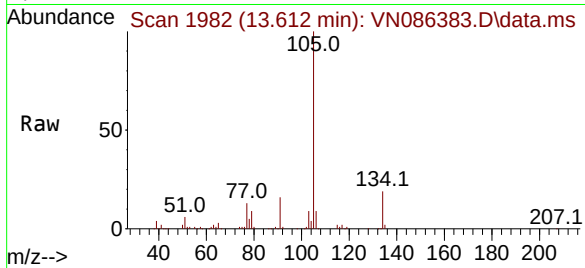
#81
sec-Butylbenzene
Concen: 19.222 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:105 Resp: 209589
Ion Ratio Lower Upper
105 100
134 19.7 0.0 38.4

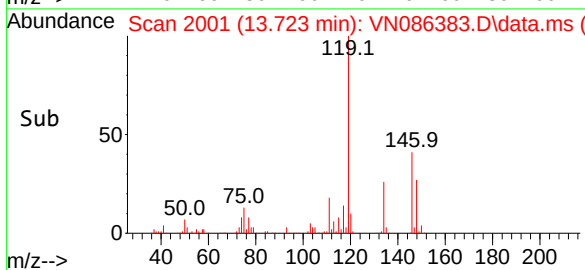
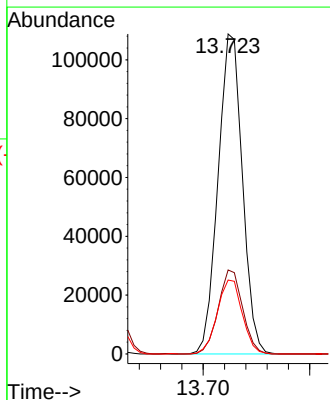
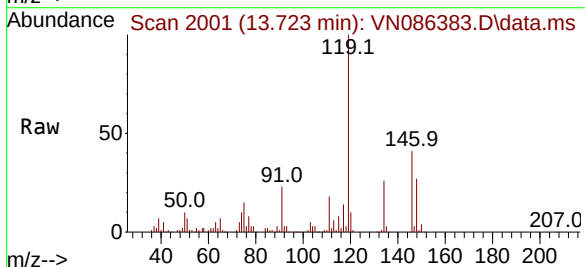
Manual Integrations
APPROVED

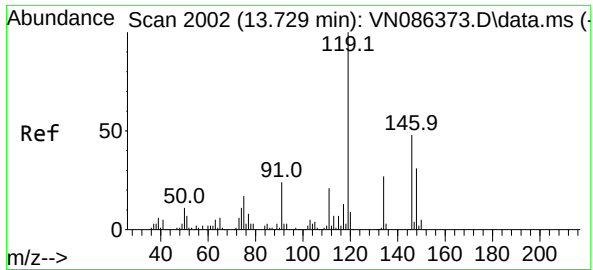
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#82
p-Isopropyltoluene
Concen: 18.915 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion:119 Resp: 172579
Ion Ratio Lower Upper
119 100
134 26.3 0.0 52.2
91 23.8 0.0 47.6





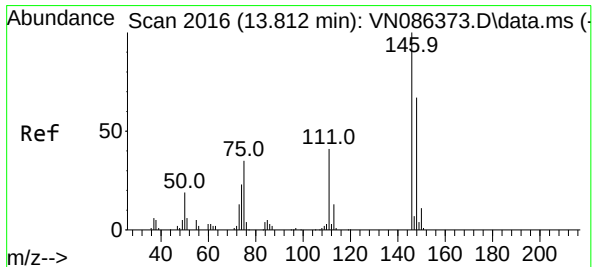
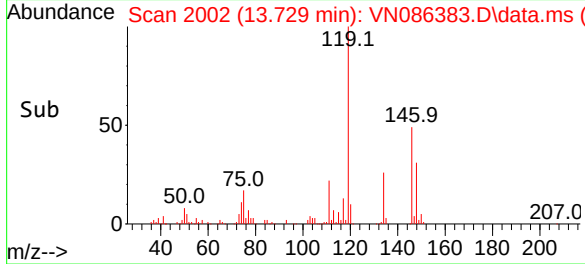
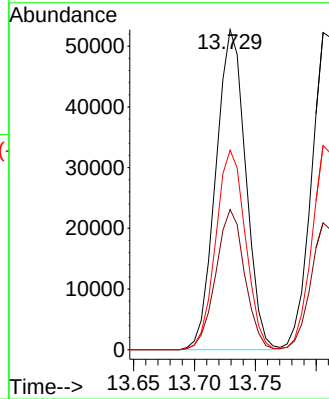
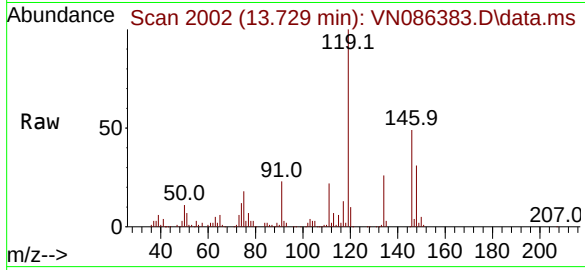
#83
1,3-Dichlorobenzene
Concen: 19.091 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion:146 Resp: 90188
Ion Ratio Lower Upper
146 100
111 42.4 20.7 62.1
148 61.8 32.3 96.8

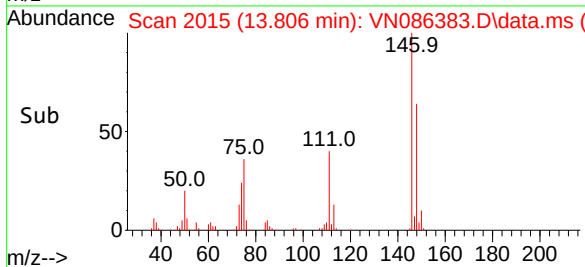
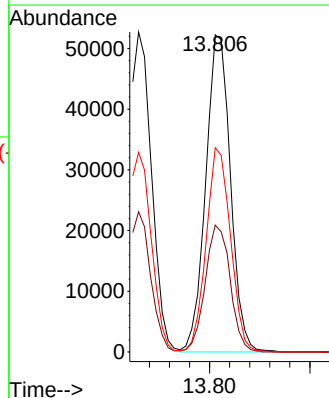
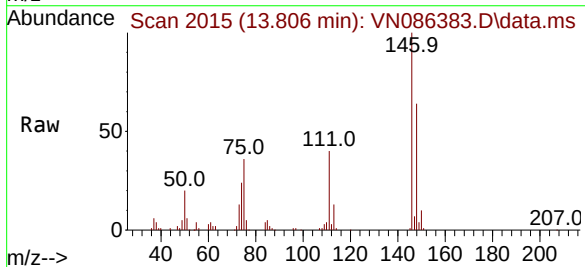
Manual Integrations
APPROVED

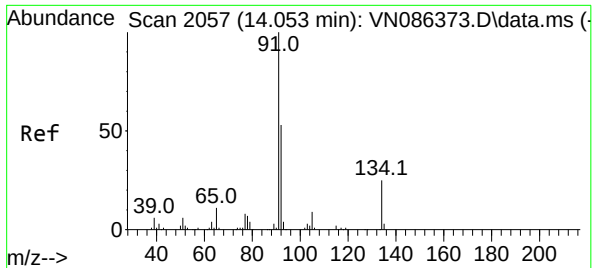
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#84
1,4-Dichlorobenzene
Concen: 19.240 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion:146 Resp: 89803
Ion Ratio Lower Upper
146 100
111 40.3 20.3 60.8
148 63.4 32.4 97.2





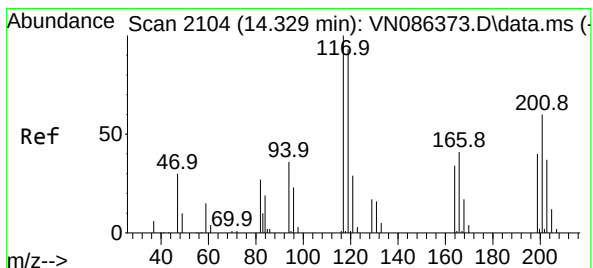
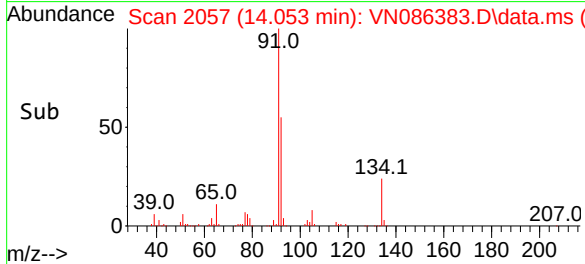
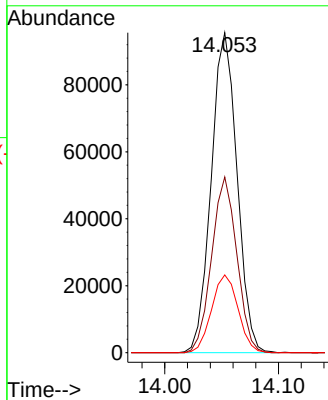
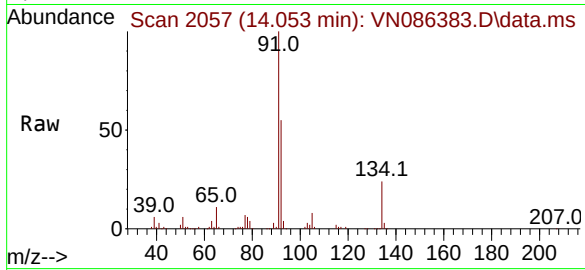
#85
n-Butylbenzene
Concen: 18.535 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01

Tgt Ion: 91 Resp: 150899
Ion Ratio Lower Upper
91 100
92 53.5 0.0 107.2
134 24.9 0.0 48.2

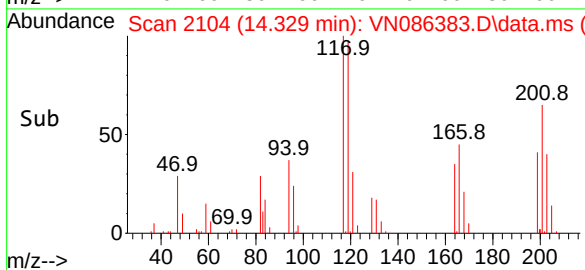
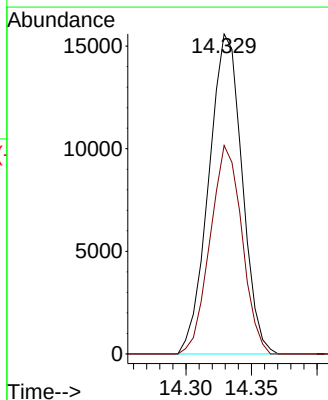
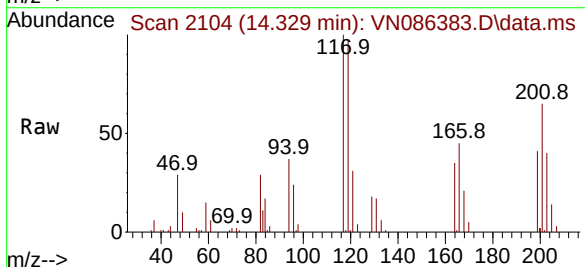
Manual Integrations
APPROVED

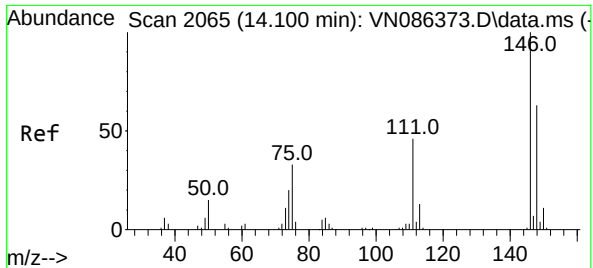
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#86
Hexachloroethane
Concen: 18.453 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

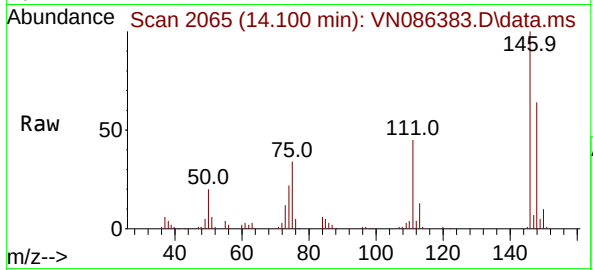
Tgt Ion:117 Resp: 27531
Ion Ratio Lower Upper
117 100
201 62.3 31.7 95.1





#87
1,2-Dichlorobenzene
Concen: 19.416 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

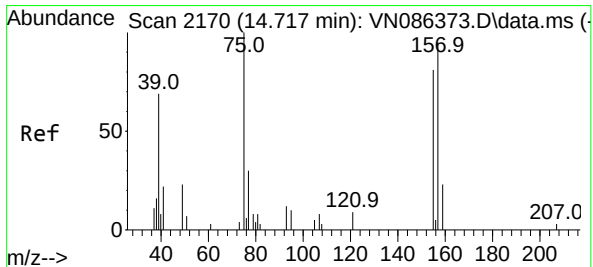
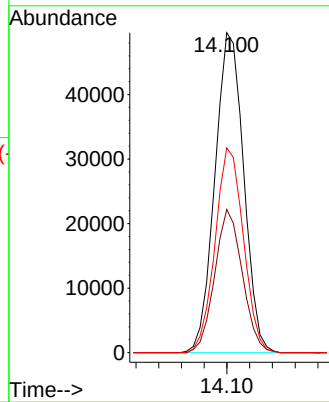
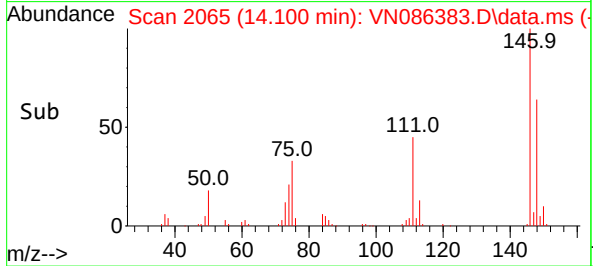
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:146 Resp: 87275
Ion Ratio Lower Upper
146 100
111 43.1 22.1 66.3
148 63.1 32.0 96.0

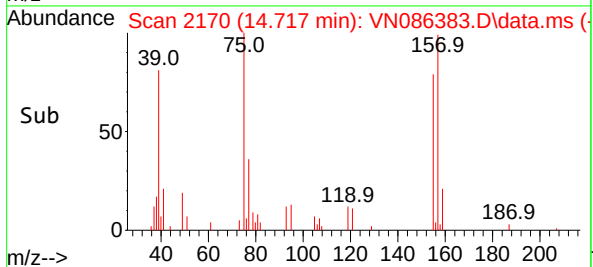
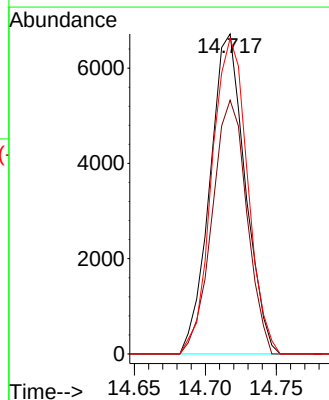
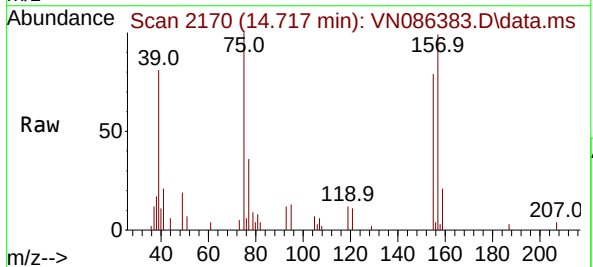
Manual Integrations
APPROVED

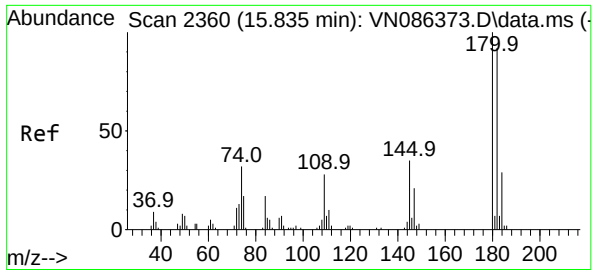
Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#88
1,2-Dibromo-3-Chloropropane
Concen: 19.956 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion: 75 Resp: 11610
Ion Ratio Lower Upper
75 100
155 77.8 64.0 96.0
157 99.3 78.2 117.4





#89

1,2,4-Trichlorobenzene

Concen: 19.595 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086383.D

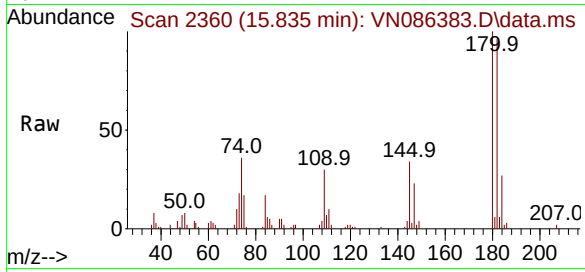
Acq: 23 Apr 2025 15:36

Instrument :

MSVOA_N

ClientSampleId :

VN0423WBSD01



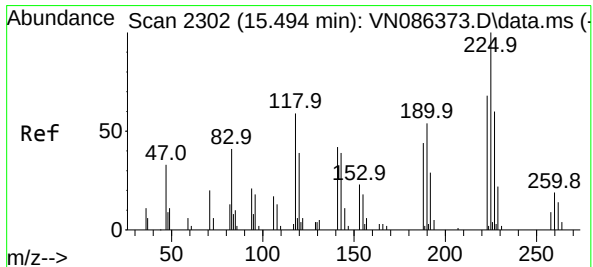
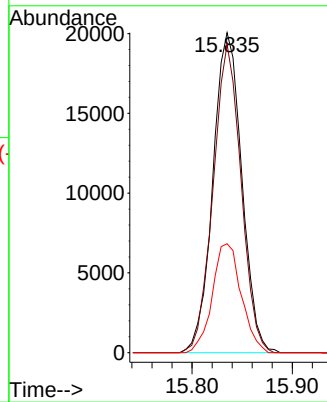
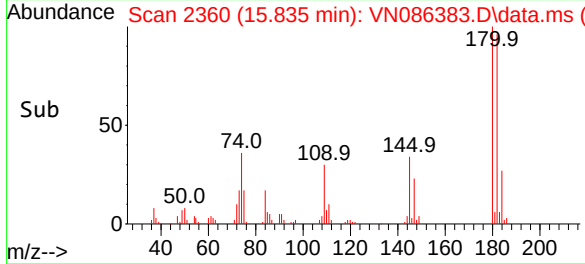
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	74.8	112.2
145	34.1	26.9	40.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/24/2025

Supervised By :Mahesh Dadoda 04/25/2025



#90

Hexachlorobutadiene

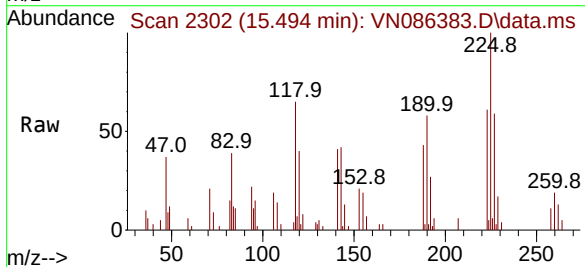
Concen: 19.757 ug/l

RT: 15.494 min Scan# 2302

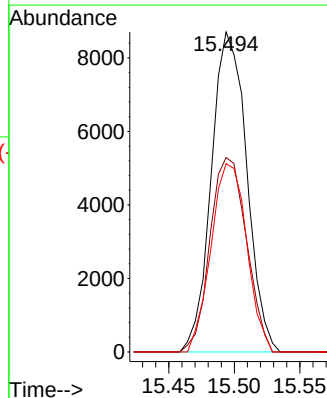
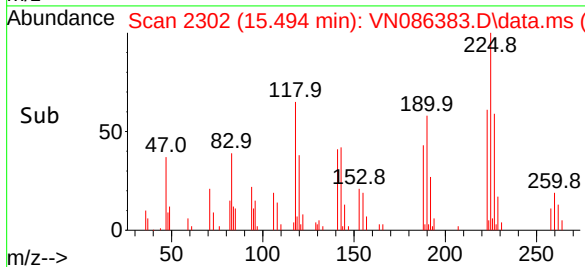
Delta R.T. -0.000 min

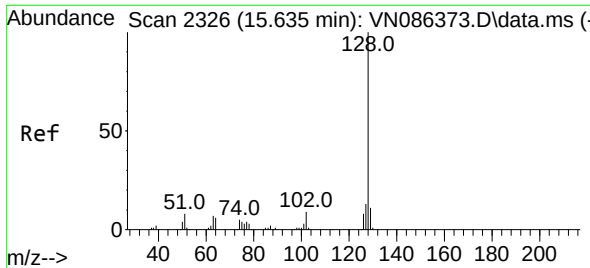
Lab File: VN086383.D

Acq: 23 Apr 2025 15:36



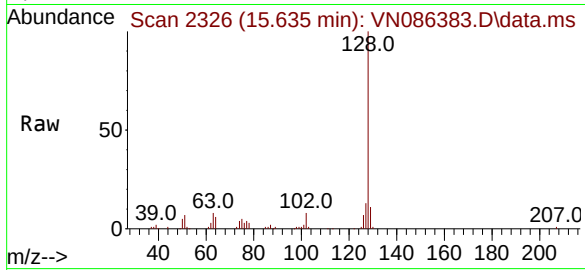
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	0.0	128.8
227	59.4	0.0	120.2





#91
Naphthalene
Concen: 20.292 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

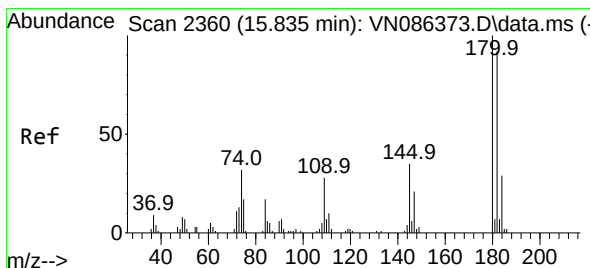
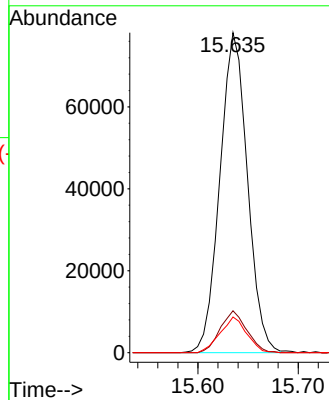
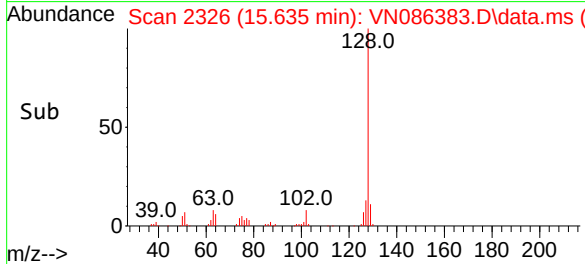
Instrument :
MSVOA_N
ClientSampleId :
VN0423WBSD01



Tgt Ion:128 Resp: 148836
Ion Ratio Lower Upper
128 100
127 12.6 10.6 15.8
129 10.8 8.7 13.1

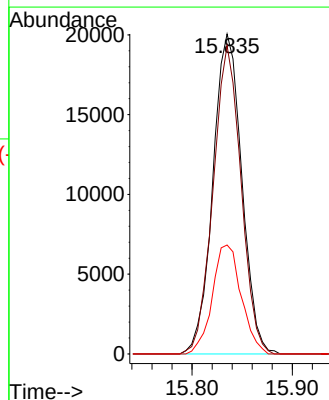
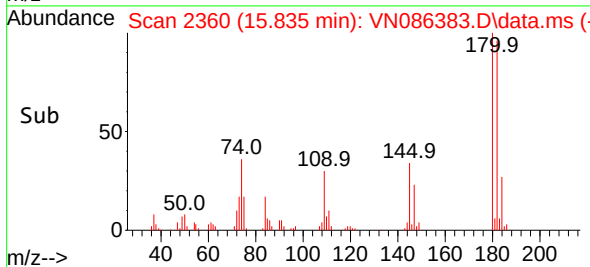
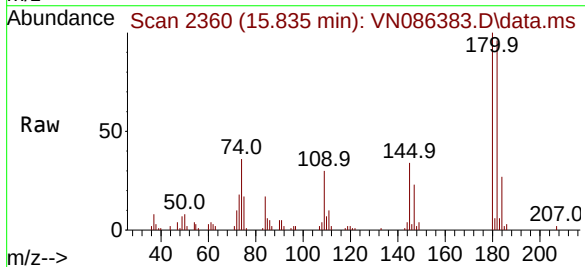
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/24/2025
Supervised By :Mahesh Dadoda 04/25/2025



#92
1,2,3-Trichlorobenzene
Concen: 19.595 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086383.D
Acq: 23 Apr 2025 15:36

Tgt Ion:180 Resp: 40145
Ion Ratio Lower Upper
180 100
182 92.9 0.0 187.0
145 34.1 0.0 67.2



Manual Integration Report

Sequence:	VN042325	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VN086372.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:34:57 AM	MMDadoda	4/25/2025 12:52:55 AM	Peak Integrated by Software
VSTDIC005	VN086372.D	Allyl chloride	JOHN	4/24/2025 9:34:57 AM	MMDadoda	4/25/2025 12:52:55 AM	Peak Integrated by Software
VSTDIC005	VN086372.D	Methylene Chloride	JOHN	4/24/2025 9:34:57 AM	MMDadoda	4/25/2025 12:52:55 AM	Peak Integrated by Software
VSTDIC005	VN086372.D	tert-Butyl Alcohol	JOHN	4/24/2025 9:34:57 AM	MMDadoda	4/25/2025 12:52:55 AM	Peak Integrated by Software
VSTDIC005	VN086372.D	trans-1,2-Dichloroethene	JOHN	4/24/2025 9:34:57 AM	MMDadoda	4/25/2025 12:52:55 AM	Peak Integrated by Software
VSTDICCC020	VN086373.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:01 AM	MMDadoda	4/25/2025 12:52:56 AM	Peak Integrated by Software
VSTDICCC020	VN086373.D	Acrolein	JOHN	4/24/2025 9:35:01 AM	MMDadoda	4/25/2025 12:52:56 AM	Peak Integrated by Software
VSTDIC150	VN086378.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:19 AM	MMDadoda	4/25/2025 12:53:04 AM	Peak Integrated by Software
VSTDIC100	VN086379.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:23 AM	MMDadoda	4/25/2025 12:53:06 AM	Peak Integrated by Software
VSTDIC050	VN086380.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:27 AM	MMDadoda	4/25/2025 12:53:08 AM	Peak Integrated by Software
VSTDIC050	VN086380.D	tert-Butyl Alcohol	JOHN	4/24/2025 9:35:27 AM	MMDadoda	4/25/2025 12:53:08 AM	Peak Integrated by Software
VSTDICV020	VN086381.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:32 AM	MMDadoda	4/25/2025 12:53:10 AM	Peak Integrated by Software
VN0423WBS01	VN086382.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:37 AM	MMDadoda	4/25/2025 12:53:12 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN042325

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VN0423WBS01	VN086382.D	Acrolein	JOHN	4/24/2025 9:35:37 AM	MMDadoda	4/25/2025 12:53:12 AM	Peak Integrated by Software
VN0423WBS01	VN086382.D	Ethyl Acetate	JOHN	4/24/2025 9:35:37 AM	MMDadoda	4/25/2025 12:53:12 AM	Peak Integrated by Software
VN0423WBSD01	VN086383.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:35:42 AM	MMDadoda	4/25/2025 12:53:13 AM	Peak Integrated by Software
VN0423WBSD01	VN086383.D	Ethyl Acetate	JOHN	4/24/2025 9:35:42 AM	MMDadoda	4/25/2025 12:53:13 AM	Peak Integrated by Software
VSTDCCC020	VN086390.D	1,2,3-Trichloropropane	JOHN	4/24/2025 9:36:05 AM	MMDadoda	4/25/2025 12:53:19 AM	Peak Integrated by Software
VSTDCCC020	VN086390.D	Acrolein	JOHN	4/24/2025 9:36:05 AM	MMDadoda	4/25/2025 12:53:19 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN042325

Review By	John Carlone	Review On	4/24/2025 9:37:02 AM
Supervise By	Maresh Dadoda	Supervise On	4/25/2025 12:53:28 AM
SubDirectory	VN042325	HP Acquire Method	HP Processing Method 624N042325W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133732		
Initial Calibration Stds	VP133733,VP133734,VP133735,VP133736,VP133737		
CCC	VP133739,VP133740,VP133741		
Internal Standard/PEM			
ICV/I.BLK	VP133738		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086371.D	23 Apr 2025 08:43	JC\MD	Ok
2	VSTDIC005	VN086372.D	23 Apr 2025 09:22	JC\MD	Ok,M
3	VSTDICCC020	VN086373.D	23 Apr 2025 09:45	JC\MD	Ok,M
4	VSTDIC020	VN086374.D	23 Apr 2025 10:09	JC\MD	Not Ok
5	VSTDIC050	VN086375.D	23 Apr 2025 10:33	JC\MD	Not Ok
6	VSTDIC100	VN086376.D	23 Apr 2025 10:57	JC\MD	Not Ok
7	IBLK	VN086377.D	23 Apr 2025 11:21	JC\MD	Ok
8	VSTDIC150	VN086378.D	23 Apr 2025 11:53	JC\MD	Ok,M
9	VSTDIC100	VN086379.D	23 Apr 2025 12:37	JC\MD	Ok,M
10	VSTDIC050	VN086380.D	23 Apr 2025 13:17	JC\MD	Ok,M
11	VSTDICV020	VN086381.D	23 Apr 2025 13:53	JC\MD	Ok,M
12	VN0423WBS01	VN086382.D	23 Apr 2025 15:02	JC\MD	Ok,M
13	VN0423WBSD01	VN086383.D	23 Apr 2025 15:36	JC\MD	Ok,M
14	VN0423WBL01	VN086384.D	23 Apr 2025 16:00	JC\MD	Ok
15	Q1833-01	VN086385.D	23 Apr 2025 16:24	JC\MD	Ok
16	IBLK	VN086386.D	23 Apr 2025 16:48	JC\MD	Ok
17	IBLK	VN086387.D	23 Apr 2025 17:12	JC\MD	Ok
18	Q1168-07 2.5PPB	VN086388.D	23 Apr 2025 17:37	JC\MD	Ok,M
19	Q1168-08 5.0PPB	VN086389.D	23 Apr 2025 18:01	JC\MD	Ok,M
20	VSTDCCC020	VN086390.D	23 Apr 2025 18:25	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN042325

Review By	John Carlone	Review On	4/24/2025 9:37:02 AM
Supervise By	Mahesh Dadoda	Supervise On	4/25/2025 12:53:28 AM
SubDirectory	VN042325	HP Acquire Method	HP Processing Method 624N042325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133732
Initial Calibration Stds	VP133733,VP133734,VP133735,VP133736,VP133737
CCC	VP133739,VP133740,VP133741
Internal Standard/PEM	
ICV/I.BLK	VP133738
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086371.D	23 Apr 2025 08:43		JC\MD	Ok
2	VSTDIC005	VSTDIC005	VN086372.D	23 Apr 2025 09:22		JC\MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VN086373.D	23 Apr 2025 09:45		JC\MD	Ok,M
4	VSTDIC020	VSTDIC020	VN086374.D	23 Apr 2025 10:09	Not used	JC\MD	Not Ok
5	VSTDIC050	VSTDIC050	VN086375.D	23 Apr 2025 10:33	Not used	JC\MD	Not Ok
6	VSTDIC100	VSTDIC100	VN086376.D	23 Apr 2025 10:57	Not used	JC\MD	Not Ok
7	IBLK	IBLK	VN086377.D	23 Apr 2025 11:21		JC\MD	Ok
8	VSTDIC150	VSTDIC150	VN086378.D	23 Apr 2025 11:53		JC\MD	Ok,M
9	VSTDIC100	VSTDIC100	VN086379.D	23 Apr 2025 12:37	Comp.#13 is on Linear Regression	JC\MD	Ok,M
10	VSTDIC050	VSTDIC050	VN086380.D	23 Apr 2025 13:17		JC\MD	Ok,M
11	VSTDICV020	ICVVN042325	VN086381.D	23 Apr 2025 13:53		JC\MD	Ok,M
12	VN0423WBS01	VN0423WBS01	VN086382.D	23 Apr 2025 15:02		JC\MD	Ok,M
13	VN0423WBSD01	VN0423WBSD01	VN086383.D	23 Apr 2025 15:36		JC\MD	Ok,M
14	VN0423WBL01	VN0423WBL01	VN086384.D	23 Apr 2025 16:00		JC\MD	Ok
15	Q1833-01	EFF-WASTE-WATER	VN086385.D	23 Apr 2025 16:24	vial B pH<2	JC\MD	Ok
16	IBLK	IBLK	VN086386.D	23 Apr 2025 16:48		JC\MD	Ok
17	IBLK	IBLK	VN086387.D	23 Apr 2025 17:12		JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN042325

Review By	John Carlone	Review On	4/24/2025 9:37:02 AM
Supervise By	Maresh Dadoda	Supervise On	4/25/2025 12:53:28 AM
SubDirectory	VN042325	HP Acquire Method	HP Processing Method 624N042325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133732
Initial Calibration Stds	VP133733,VP133734,VP133735,VP133736,VP133737
CCC	VP133739,VP133740,VP133741
Internal Standard/PEM	
ICV/I.BLK	VP133738
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1168-07 2.5PPB	LOD-MDL-WATER-01-0	VN086388.D	23 Apr 2025 17:37		JC\MD	Ok,M
19	Q1168-08 5.0PPB	LOQ-WATER-02-QT1-2	VN086389.D	23 Apr 2025 18:01		JC\MD	Ok,M
20	VSTDCCC020	VSTDCCC020EC	VN086390.D	23 Apr 2025 18:25		JC\MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: ARDMORE
ADDRESS: 29 RIVERSIDE AVE
CITY: NEWARK STATE: NJ ZIP: 07104
ATTENTION: MICHAEL SHARPHOUSE
PHONE: 973 481-2406 FAX:

PROJECT NAME: PVSC MONTHLY
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): STANDARD DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

VOC CN SVOC BOD/TS METALS
1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	EFF WASTE WATER	WW		X	4/17/25	12:30 PM	3	X	X								PH-12 Lot # HC175721
2.	EFF WASTE WATER	WW	X		4/17/25	12:30 PM	3			X	X	X					PH-1-3 Lot # 80A0441
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>Michael Sharphouse</u>	DATE/TIME: <u>4/17/25</u>	RECEIVED BY: 1. <u>Michael Sharphouse</u>	DATE/TIME: <u>4/17/25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: <u>33°C</u>	Comments: <u>METALS LEAD, ZINC</u> (adjust factor x1) IN RINSE #1
RELINQUISHED BY SAMPLER: 2.	DATE/TIME: <u>4/17/25</u>	RECEIVED BY: 2. <u>[Signature]</u>	DATE/TIME: <u>4/17/25</u>		
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	DATE/TIME:		

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

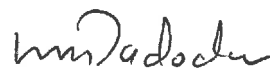
Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER**Order ID :** Q1833 ARDM01**Order Date :** 4/17/2025 2:07:00 PM**Project Mgr :****Client Name :** Ardmore Chemical**Project Name :** PVSC Monthly 2025**Report Type :** Level 1**Client Contact :** Michael Sharpouse**Receive DateTime :** 4/17/2025 11:55:00 AM**EDD Type :** NONE**Invoice Name :** Ardmore Chemical**Purchase Order :****Hard Copy Date :****Invoice Contact :** Michael Sharpouse**Date Signoff :**

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1833-01	EFF-WASTE-WATER	Water	04/17/2025	12:30	VOC-PP		624.1		3 Bus. Days

*stored in v.o.A
sf # 05*

Relinquished By :**Date / Time :**4/17/25 1512**Received By :**16:45**Date / Time :**4-17-25**Storage Area :** VOA Refridgerator Room