

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : RFP 905

**WESTON SOLUTIONS, INC.
1090 King Georges Post Road
Suite 201
Edison, NJ - 08837-3703
Phone No: 732-585-4410**

**ORDER ID : Q1421
ATTENTION : Smita Sumbaly**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1421

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number

Q1421-01
Q1421-02
Q1421-03
Q1421-04
Q1421-05
Q1421-06
Q1421-07
Q1421-08
Q1421-09
Q1421-10

Client Sample Number

P001-CLAY-CF01-01
P001-CLAY-CF01-01MS
P001-CLAY-CF01-01MSD
P001-CLAY-CF01-01
P001-CLAY-CF01-01MS
P001-CLAY-CF01-01MSD
P001-CLAY-CF01-02
P001-CLAY-CF01-02
P001-CLAY-CF02-01
P001-CLAY-CF02-01

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: 3/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1421
Test Name: SPLP VOA

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 02/24/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP VOA.

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 SPLP VOA was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .

The Blank Spike for {VN0226WBS01} with File ID: VN085865.D met requirements for all samples except for 2-Hexanone[120%], is failing high but no positive hit in associate samples therefore no corrective action taken.

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

The %RSD is greater than 20% in the Initial Calibration method (82N021825W.M) for Styrene this compound is passing on Quadratic Regression.

The Continuous Calibration File ID VN085862.D met the requirements except for 2-Hexanone is failing high but no positive hit in associate samples therefore no corrective action taken and Carbon Disulfide is failing Marginary low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Calculation:

Water Calculation in ug/L

$$\frac{(A_x)(I_s)(Df)}{(A_{is})(RRF)(V_0)}$$

Where,

A_x = Area for the compound to be measured

A_{is} = Area for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the initial calibration curve standard.

V₀ = Volume of water purged in milliliters (mL)

D_f = Dilution factor.

E. Additional Comments:

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1421

MATRIX: Solid

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82N021825W.M) for Styrene this compound is passing on Quadratic Regression. The Continuous Calibration File ID VN085862.D met the requirements except for 2- Hexanone is failing high but no positive hit in associate samples therefore no corrective action taken and Carbon Disulfide is failing Marginary low therefore no corrective action taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike for {VN0226WBS01} with File ID: VN085865.D met requirements for all samples except for 2-Hexanone[120%],is failing high but no positive hit in associate samples therefore no corrective action taken.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1421

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 03/05/2025

LAB CHRONICLE

OrderID:	Q1421	OrderDate:	2/24/2025 2:56:42 PM
Client:	Weston Solutions, Inc.	Project:	RFP 905
Contact:	Smita Sumbaly	Location:	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1421-04	P001-CLAY-CF01-01	Water	SPLP VOA	8260D	02/24/25		02/26/25	02/24/25
Q1421-08	P001-CLAY-CF01-02	Water	SPLP VOA	8260D	02/24/25		02/26/25	02/24/25
Q1421-10	P001-CLAY-CF02-01	Water	SPLP VOA	8260D	02/24/25		02/26/25	02/24/25

Hit Summary Sheet
SW-846

SDG No.: Q1421
Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	P001-CLAY-CF01-01							
Q1421-04	P001-CLAY-CF01-01 WATER	Acetone		38.8		1.40	25.0	ug/L
Q1421-04	P001-CLAY-CF01-01 WATER	Methylene Chloride		2.30	J	0.32	5.00	ug/L
		Total Voc :		41.1				
		Total Concentration:		41.1				
Client ID:	P001-CLAY-CF01-02							
Q1421-08	P001-CLAY-CF01-02 WATER	Acetone		55.2		1.40	25.0	ug/L
Q1421-08	P001-CLAY-CF01-02 WATER	Methylene Chloride		1.40	J	0.32	5.00	ug/L
		Total Voc :		56.6				
		Total Concentration:		56.6				
Client ID:	P001-CLAY-CF02-01							
Q1421-10	P001-CLAY-CF02-01 WATER	Acetone		21.5	J	1.40	25.0	ug/L
Q1421-10	P001-CLAY-CF02-01 WATER	Methylene Chloride		1.70	J	0.32	5.00	ug/L
		Total Voc :		23.2				
		Total Concentration:		23.2				



QC SUMMARY

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Surrogate Summary

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1421-04	P001-CLAY-CF01-01	1,2-Dichloroethane-d4	50	52.8	106	74	125
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	46.0	92	86	113
		4-Bromofluorobenzene	50	45.9	92	77	121
Q1421-05MS	P001-CLAY-CF01-01MS	1,2-Dichloroethane-d4	50	46.4	93	74	125
		Dibromofluoromethane	50	48.5	97	75	124
		Toluene-d8	50	47.9	96	86	113
		4-Bromofluorobenzene	50	51.9	104	77	121
Q1421-06MSD	P001-CLAY-CF01-01MSD	1,2-Dichloroethane-d4	50	47.8	96	74	125
		Dibromofluoromethane	50	51.4	103	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	53.7	107	77	121
Q1421-08	P001-CLAY-CF01-02	1,2-Dichloroethane-d4	50	53.0	106	74	125
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	46.5	93	86	113
		4-Bromofluorobenzene	50	45.0	90	77	121
Q1421-10	P001-CLAY-CF02-01	1,2-Dichloroethane-d4	50	52.6	105	74	125
		Dibromofluoromethane	50	51.6	103	75	124
		Toluene-d8	50	46.5	93	86	113
		4-Bromofluorobenzene	50	46.3	93	77	121

Surrogate Summary

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VN0226WBL01	VN0226WBL01	1,2-Dichloroethane-d4	50	53.2	106	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	46.3	93	86	113
		4-Bromofluorobenzene	50	45.4	91	77	121
VN0226WBS01	VN0226WBS01	1,2-Dichloroethane-d4	50	47.8	96	74	125
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	53.0	106	77	121

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample	Result	Units	Rec		RPD		Limits		RPD
		Result			Qual	RPD	Qual	Low	High		
Lab Sample ID :	Q1421-05MS	Client Sample ID :	P001-CLAY-CF01-01MS					Datafile :	VN085876.D		
Dichlorodifluoromethane	50	0	40.8	ug/L	82				73	120	
Chloromethane	50	0	41.8	ug/L	84				58	133	
Vinyl chloride	50	0	42.2	ug/L	84				69	125	
Bromomethane	50	0	40.5	ug/L	81				28	165	
Chloroethane	50	0	41.2	ug/L	82				70	141	
Trichlorofluoromethane	50	0	41.2	ug/L	82				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	42.0	ug/L	84				75	117	
1,1-Dichloroethene	50	0	44.6	ug/L	89				53	162	
Acetone	250	38.8	280	ug/L	96				44	150	
Carbon disulfide	50	0	37.5	ug/L	75				44	135	
Methyl tert-butyl Ether	50	0	50.9	ug/L	102				82	133	
Methyl Acetate	50	0	50.0	ug/L	100				76	138	
Methylene Chloride	50	2.30	47.9	ug/L	91				79	115	
trans-1,2-Dichloroethene	50	0	42.9	ug/L	86				76	118	
1,1-Dichloroethane	50	0	45.7	ug/L	91				78	122	
Cyclohexane	50	0	38.3	ug/L	77				71	119	
2-Butanone	250	0	260	ug/L	104				67	137	
Carbon Tetrachloride	50	0	42.7	ug/L	85				66	133	
cis-1,2-Dichloroethene	50	0	46.3	ug/L	93				82	124	
Bromochloromethane	50	0	53.0	ug/L	106				72	130	
Chloroform	50	0	45.9	ug/L	92				83	119	
1,1,1-Trichloroethane	50	0	43.2	ug/L	86				83	117	
Methylcyclohexane	50	0	41.8	ug/L	84				64	120	
Benzene	50	0	45.6	ug/L	91				81	128	
1,2-Dichloroethane	50	0	44.8	ug/L	90				76	120	
Trichloroethene	50	0	42.0	ug/L	84				28	175	
1,2-Dichloropropane	50	0	47.8	ug/L	96				85	116	
Bromodichloromethane	50	0	46.4	ug/L	93				54	157	
4-Methyl-2-Pentanone	250	0	270	ug/L	108				72	137	
Toluene	50	0	47.8	ug/L	96				85	115	
t-1,3-Dichloropropene	50	0	48.7	ug/L	97				60	141	
cis-1,3-Dichloropropene	50	0	48.7	ug/L	97				36	161	
1,1,2-Trichloroethane	50	0	48.4	ug/L	97				27	175	
2-Hexanone	250	0	280	ug/L	112				75	131	
Dibromochloromethane	50	0	49.8	ug/L	100				59	164	
1,2-Dibromoethane	50	0	49.2	ug/L	98				85	119	
Tetrachloroethene	50	0	44.8	ug/L	90				48	153	
Chlorobenzene	50	0	44.6	ug/L	89				85	114	
Ethyl Benzene	50	0	47.0	ug/L	94				81	128	
m/p-Xylenes	100	0	99.2	ug/L	99				69	129	
o-Xylene	50	0	49.4	ug/L	99				75	127	
Styrene	50	0	46.4	ug/L	93				84	128	
Bromoform	50	0	50.2	ug/L	100				73	147	
Isopropylbenzene	50	0	45.4	ug/L	91				76	121	
1,1,2,2-Tetrachloroethane	50	0	45.2	ug/L	90				81	131	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample	Result	Units	Rec			RPD	Limits		
		Result			Qual	RPD	Qual	Low	High	RPD	
1,3-Dichlorobenzene	50	0	43.4	ug/L	87				84	110	
1,4-Dichlorobenzene	50	0	42.1	ug/L	84				81	111	
1,2-Dichlorobenzene	50	0	44.2	ug/L	88				82	113	
1,2-Dibromo-3-Chloropropane	50	0	44.1	ug/L	88				79	137	
1,2,4-Trichlorobenzene	50	0	43.2	ug/L	86				73	120	
1,2,3-Trichlorobenzene	50	0	42.8	ug/L	86				75	119	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

										Limits	
Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD		RPD	
		Result			Qual	Qual		Low	High		
Lab Sample ID :	Q1421-06MSD	Client Sample ID :	P001-CLAY-CF01-01MSD					Datafile :	VN085877.D		
Dichlorodifluoromethane	50	0	42.2	ug/L	84		3		73	120	20
Chloromethane	50	0	43.7	ug/L	87		4		58	133	20
Vinyl chloride	50	0	43.7	ug/L	87		3		69	125	20
Bromomethane	50	0	43.1	ug/L	86		6		28	165	20
Chloroethane	50	0	42.5	ug/L	85		3		70	141	20
Trichlorofluoromethane	50	0	43.0	ug/L	86		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	43.2	ug/L	86		3		75	117	20
1,1-Dichloroethene	50	0	45.4	ug/L	91		2		53	162	20
Acetone	250	38.8	280	ug/L	96		0		44	150	20
Carbon disulfide	50	0	39.4	ug/L	79		5		44	135	20
Methyl tert-butyl Ether	50	0	54.4	ug/L	109		7		82	133	20
Methyl Acetate	50	0	51.6	ug/L	103		3		76	138	20
Methylene Chloride	50	2.30	49.3	ug/L	94		3		79	115	20
trans-1,2-Dichloroethene	50	0	44.8	ug/L	90		4		76	118	20
1,1-Dichloroethane	50	0	47.7	ug/L	95		4		78	122	20
Cyclohexane	50	0	40.3	ug/L	81		5		71	119	20
2-Butanone	250	0	270	ug/L	108		4		67	137	20
Carbon Tetrachloride	50	0	44.4	ug/L	89		4		66	133	20
cis-1,2-Dichloroethene	50	0	48.2	ug/L	96		4		82	124	20
Bromochloromethane	50	0	53.3	ug/L	107		1		72	130	20
Chloroform	50	0	48.0	ug/L	96		4		83	119	20
1,1,1-Trichloroethane	50	0	45.3	ug/L	91		5		83	117	20
Methylcyclohexane	50	0	44.8	ug/L	90		7		64	120	20
Benzene	50	0	47.7	ug/L	95		5		81	128	20
1,2-Dichloroethane	50	0	46.8	ug/L	94		4		76	120	20
Trichloroethene	50	0	45.1	ug/L	90		7		28	175	20
1,2-Dichloropropane	50	0	49.9	ug/L	100		4		85	116	20
Bromodichloromethane	50	0	48.7	ug/L	97		5		54	157	20
4-Methyl-2-Pentanone	250	0	280	ug/L	112		4		72	137	20
Toluene	50	0	50.1	ug/L	100		5		85	115	20
t-1,3-Dichloropropene	50	0	51.9	ug/L	104		6		60	141	20
cis-1,3-Dichloropropene	50	0	50.5	ug/L	101		4		36	161	20
1,1,2-Trichloroethane	50	0	50.8	ug/L	102		5		27	175	20
2-Hexanone	250	0	290	ug/L	116		4		75	131	20
Dibromochloromethane	50	0	52.4	ug/L	105		5		59	164	20
1,2-Dibromoethane	50	0	52.0	ug/L	104		6		85	119	20
Tetrachloroethene	50	0	47.4	ug/L	95		6		48	153	20
Chlorobenzene	50	0	47.0	ug/L	94		5		85	114	20
Ethyl Benzene	50	0	49.9	ug/L	100		6		81	128	20
m/p-Xylenes	100	0	100	ug/L	100		1		69	129	20
o-Xylene	50	0	52.4	ug/L	105		6		75	127	20
Styrene	50	0	49.0	ug/L	98		5		84	128	20
Bromoform	50	0	52.5	ug/L	105		4		73	147	20
Isopropylbenzene	50	0	48.9	ug/L	98		7		76	121	20
1,1,2,2-Tetrachloroethane	50	0	47.9	ug/L	96		6		81	131	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec			RPD	Limits			
					Rec	Qual	RPD	Qual	Low	High	RPD	
1,3-Dichlorobenzene	50	0	46.1	ug/L	92			6		84	110	20
1,4-Dichlorobenzene	50	0	45.0	ug/L	90			7		81	111	20
1,2-Dichlorobenzene	50	0	47.0	ug/L	94			6		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	46.2	ug/L	92			5		79	137	20
1,2,4-Trichlorobenzene	50	0	48.1	ug/L	96			11		73	120	20
1,2,3-Trichlorobenzene	50	0	46.9	ug/L	94			9		75	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Datafile : VN085865.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0226WBS01	Dichlorodifluoromethane	20	17.7	ug/L	89			69	116	
	Chloromethane	20	16.4	ug/L	82			65	116	
	Vinyl chloride	20	17.6	ug/L	88			65	117	
	Bromomethane	20	17.2	ug/L	86			58	125	
	Chloroethane	20	17.2	ug/L	86			56	128	
	Trichlorofluoromethane	20	18.1	ug/L	91			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92			80	112	
	1,1-Dichloroethene	20	18.4	ug/L	92			74	110	
	Acetone	100	110	ug/L	110			60	125	
	Carbon disulfide	20	15.5	ug/L	78			64	112	
	Methyl tert-butyl Ether	20	19.6	ug/L	98			78	114	
	Methyl Acetate	20	21.3	ug/L	106			67	125	
	Methylene Chloride	20	18.1	ug/L	91			72	114	
	trans-1,2-Dichloroethene	20	17.7	ug/L	89			75	108	
	1,1-Dichloroethane	20	18.3	ug/L	92			78	112	
	Cyclohexane	20	16.4	ug/L	82			75	110	
	2-Butanone	100	110	ug/L	110			65	122	
	Carbon Tetrachloride	20	18.6	ug/L	93			77	113	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			77	110	
	Bromochloromethane	20	21.7	ug/L	109			70	124	
	Chloroform	20	18.7	ug/L	94			79	113	
	1,1,1-Trichloroethane	20	18.4	ug/L	92			80	108	
	Methylcyclohexane	20	16.6	ug/L	83			72	115	
	Benzene	20	18.4	ug/L	92			82	109	
	1,2-Dichloroethane	20	19.0	ug/L	95			80	115	
	Trichloroethene	20	18.0	ug/L	90			77	113	
	1,2-Dichloropropane	20	18.8	ug/L	94			83	111	
	Bromodichloromethane	20	18.9	ug/L	95			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	19.7	ug/L	99			82	110	
	t-1,3-Dichloropropene	20	19.4	ug/L	97			79	110	
	cis-1,3-Dichloropropene	20	19.3	ug/L	97			82	110	
	1,1,2-Trichloroethane	20	19.6	ug/L	98			83	112	
	2-Hexanone	100	120	ug/L	120		*	73	117	
	Dibromochloromethane	20	20.4	ug/L	102			82	110	
	1,2-Dibromoethane	20	20.3	ug/L	102			81	110	
	Tetrachloroethene	20	18.3	ug/L	92			67	123	
	Chlorobenzene	20	18.7	ug/L	94			82	109	
	Ethyl Benzene	20	18.7	ug/L	94			83	109	
	m/p-Xylenes	40	39.7	ug/L	99			82	110	
	o-Xylene	20	19.8	ug/L	99			83	109	
	Styrene	20	19.4	ug/L	97			80	111	
	Bromoform	20	21.2	ug/L	106			79	109	
	Isopropylbenzene	20	19.2	ug/L	96			83	112	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/L	101			76	118	
	1,3-Dichlorobenzene	20	18.0	ug/L	90			82	108	
	1,4-Dichlorobenzene	20	17.9	ug/L	90			82	107	
	1,2-Dichlorobenzene	20	18.5	ug/L	93			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Datafile : VN085865.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0226WBS01	1,2-Dibromo-3-Chloropropane	20	20.0	ug/L	100			68	112	
	1,2,4-Trichlorobenzene	20	16.8	ug/L	84			75	113	
	1,2,3-Trichlorobenzene	20	17.1	ug/L	86			76	114	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0226WBL01

Lab Name: CHEMTECH

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421

SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: VN085864.D

Lab Sample ID: VN0226WBL01

Date Analyzed: 02/26/2025

Time Analyzed: 12:09

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
VN0226WBS01	VN0226WBS01	VN085865.D	02/26/2025
P001-CLAY-CF01-01	Q1421-04	VN085869.D	02/26/2025
P001-CLAY-CF01-02	Q1421-08	VN085870.D	02/26/2025
P001-CLAY-CF02-01	Q1421-10	VN085871.D	02/26/2025
P001-CLAY-CF01-01MS	Q1421-05MS	VN085876.D	02/26/2025
P001-CLAY-CF01-01MSD	Q1421-06MSD	VN085877.D	02/26/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421
Lab File ID: VN085771.D BFB Injection Date: 02/18/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:35
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	18.1
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC100	VSTDIC100	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDIC100	VSTDIC100	VN085775.D	02/18/2025	12:20
VSTDIC005	VSTDIC005	VN085776.D	02/18/2025	12:43
VSTDIC001	VSTDIC001	VN085777.D	02/18/2025	13:07
VSTDIC020	VSTDIC020	VN085779.D	02/18/2025	14:18



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421
Lab File ID: VN085861.D BFB Injection Date: 02/26/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:08
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	16.9
75	30.0 - 60.0% of mass 95	50.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	1.6 (1.9) 1
174	50.0 - 100.0% of mass 95	82.2
175	5.0 - 9.0% of mass 174	6 (7.3) 1
176	95.0 - 101.0% of mass 174	79.4 (96.6) 1
177	5.0 - 9.0% of mass 176	5.5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085862.D	02/26/2025	10:32
VN0226WBL01	VN0226WBL01	VN085864.D	02/26/2025	12:09
VN0226WBS01	VN0226WBS01	VN085865.D	02/26/2025	12:33
P001-CLAY-CF01-01	Q1421-04	VN085869.D	02/26/2025	14:20
P001-CLAY-CF01-02	Q1421-08	VN085870.D	02/26/2025	14:44
P001-CLAY-CF02-01	Q1421-10	VN085871.D	02/26/2025	15:08
P001-CLAY-CF01-01MS	Q1421-05MS	VN085876.D	02/26/2025	17:09
P001-CLAY-CF01-01MSD	Q1421-06MSD	VN085877.D	02/26/2025	17:33

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421
Lab File ID: VN085862.D Date Analyzed: 02/26/2025
Instrument ID: MSVOA_N Time Analyzed: 10:32
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	312343	8.22	503422	9.10	446587	11.87
UPPER LIMIT	624686	8.724	1006840	9.6	893174	12.365
LOWER LIMIT	156172	7.724	251711	8.6	223294	11.365
EPA SAMPLE NO.						
P001-CLAY-CF01-01	266570	8.22	497524	9.10	429240	11.87
P001-CLAY-CF01-01MS	267945	8.22	447222	9.10	395097	11.87
P001-CLAY-CF01-01MSD	275367	8.22	457023	9.10	400922	11.87
P001-CLAY-CF01-02	265447	8.22	493237	9.10	428131	11.87
P001-CLAY-CF02-01	269829	8.22	498271	9.10	443623	11.87
VN0226WBL01	270093	8.22	493199	9.10	432412	11.87
VN0226WBS01	312752	8.22	518107	9.10	453898	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ROYF02
Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421
Lab File ID: VN085862.D Date Analyzed: 02/26/2025
Instrument ID: MSVOA_N Time Analyzed: 10:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	218212	13.788				
UPPER LIMIT	436424	14.288				
LOWER LIMIT	109106	13.288				
EPA SAMPLE NO.						
P001-CLAY-CF01-01	167346	13.79				
P001-CLAY-CF01-01MS	197597	13.79				
P001-CLAY-CF01-01MSD	196698	13.79				
P001-CLAY-CF01-02	165447	13.79				
P001-CLAY-CF02-01	172512	13.79				
VN0226WBL01	165756	13.79				
VN0226WBS01	219511	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085869.D	1		02/26/25 14:20	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	5.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	5.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
67-64-1	Acetone	38.8		1.40	25.0	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	5.00	ug/L
75-09-2	Methylene Chloride	2.30	J	0.32	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	5.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	5.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	5.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	25.0	ug/L
108-88-3	Toluene	0.18	U	0.18	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01		SDG No.:	Q1421	
Lab Sample ID:	Q1421-04		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085869.D	1		02/26/25 14:20	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	5.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	10.0	ug/L
95-47-6	o-Xylene	0.14	U	0.14	5.00	ug/L
100-42-5	Styrene	0.16	U	0.16	5.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	5.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	46.0		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.9		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	267000	8.224			
540-36-3	1,4-Difluorobenzene	498000	9.1			
3114-55-4	Chlorobenzene-d5	429000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.794			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085869.D	1		02/26/25 14:20	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085869.D
Acq On : 26 Feb 2025 14:20
Operator : JC\MD
Sample : Q1421-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01

Quant Time: Feb 26 23:00:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

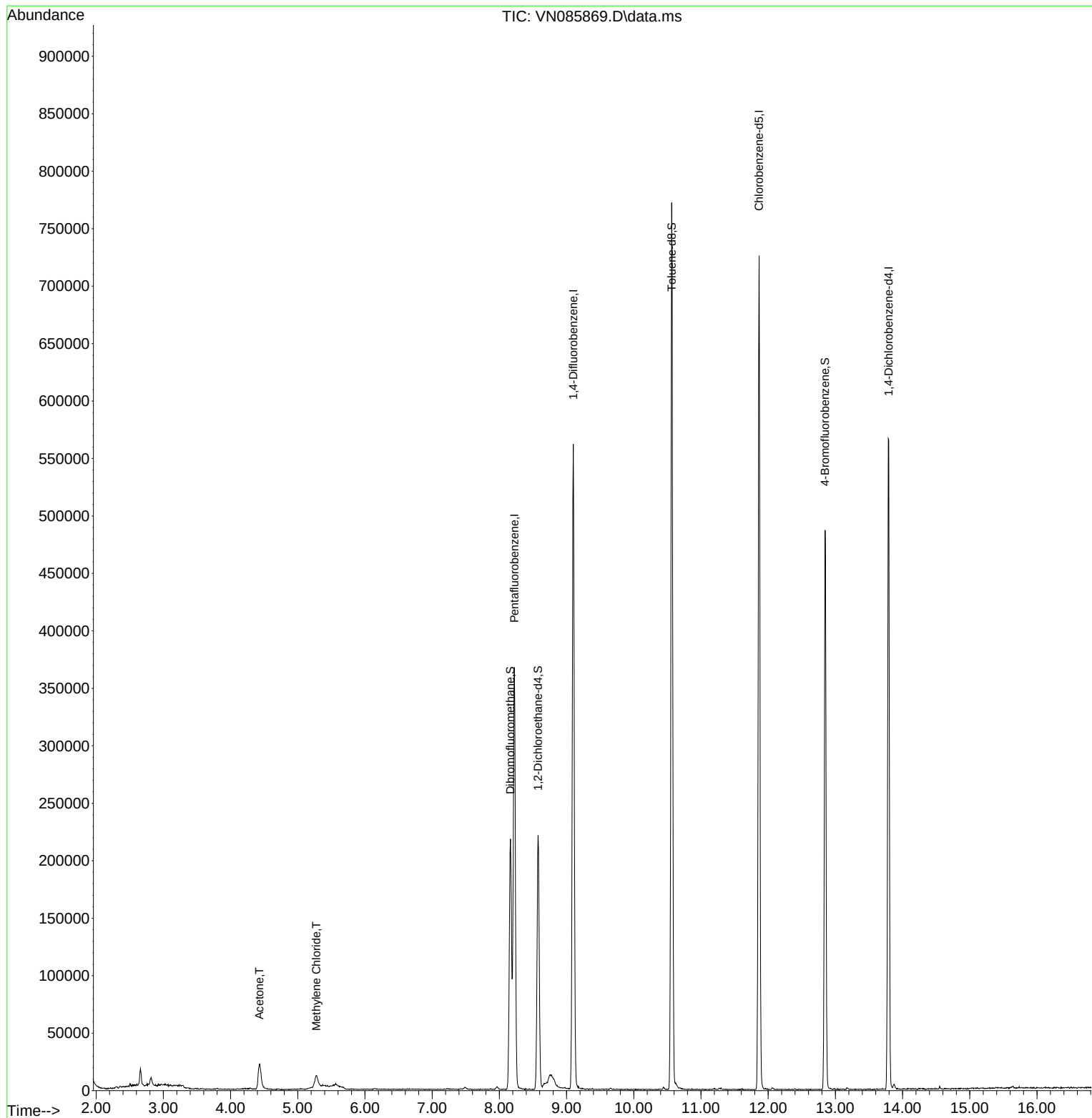
Internal Standards						
1) Pentafluorobenzene	8.224	168	266570	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	497524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	429240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167346	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	182347	52.763	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 105.520%		
35) Dibromofluoromethane	8.165	113	160657	49.349	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.700%		
50) Toluene-d8	10.565	98	545079	46.019	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 92.040%		
62) 4-Bromofluorobenzene	12.847	95	179218	45.923	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 91.840%		
Target Compounds						
						Qvalue
16) Acetone	4.430	43	42483	38.849	ug/l	93
20) Methylene Chloride	5.277	84	8227	2.339	ug/l	91

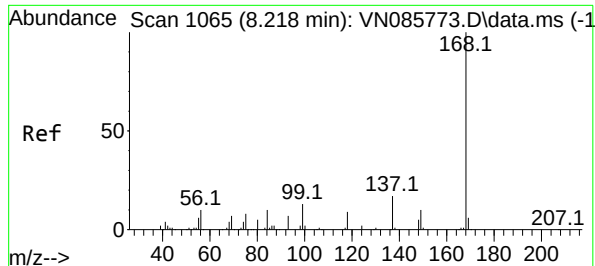
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085869.D
Acq On : 26 Feb 2025 14:20
Operator : JC\MD
Sample : Q1421-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01

Quant Time: Feb 26 23:00:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

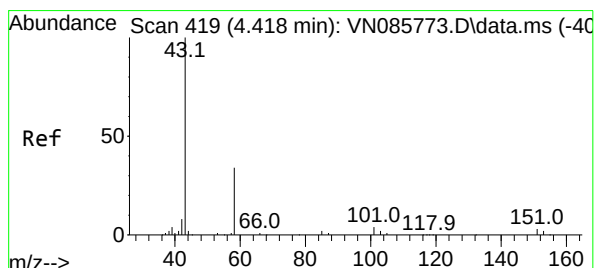
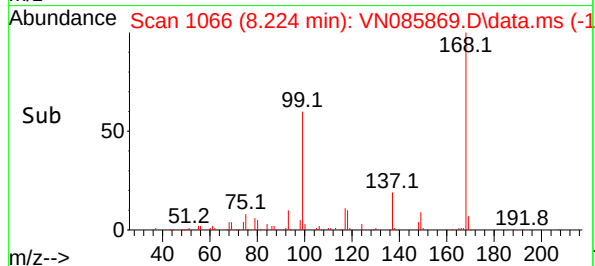
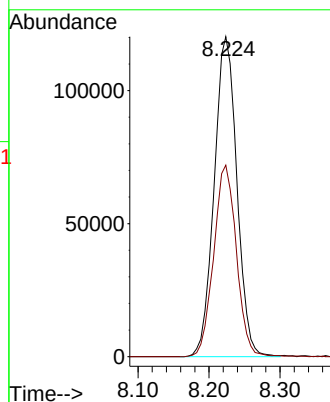
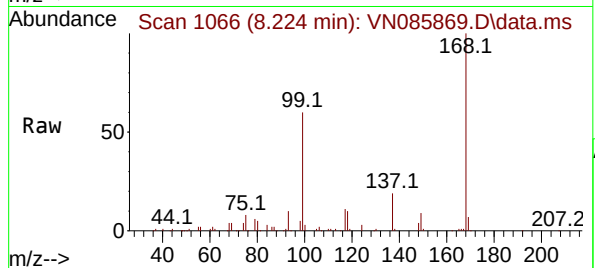




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085869.D
Acq: 26 Feb 2025 14:20

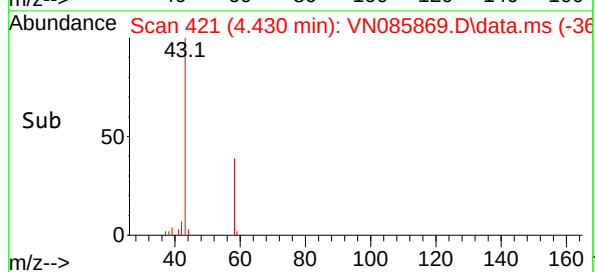
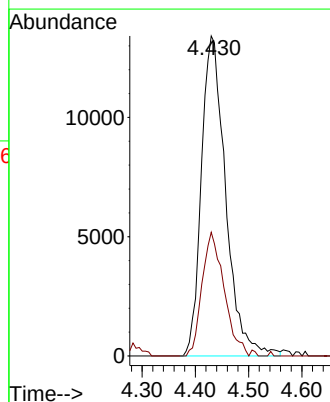
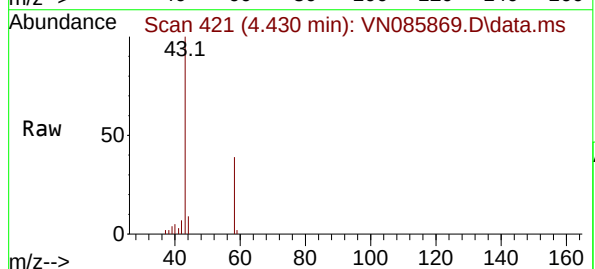
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01

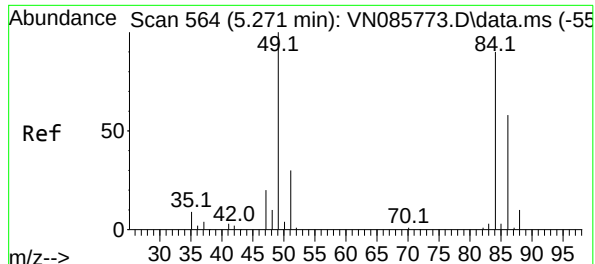
Tgt Ion:168 Resp: 266570
Ion Ratio Lower Upper
168 100
99 59.8 47.9 71.9



#16
Acetone
Concen: 38.849 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085869.D
Acq: 26 Feb 2025 14:20

Tgt Ion: 43 Resp: 42483
Ion Ratio Lower Upper
43 100
58 38.6 27.5 41.3





#20

Methylene Chloride

Concen: 2.339 ug/l

RT: 5.277 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN085869.D

Acq: 26 Feb 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01

Tgt Ion: 84 Resp: 8227

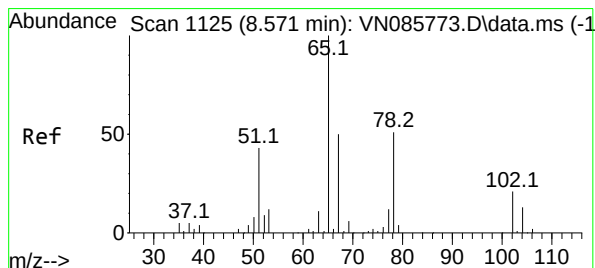
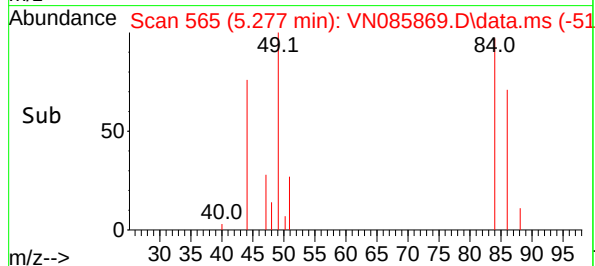
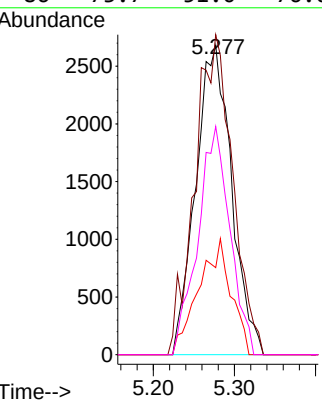
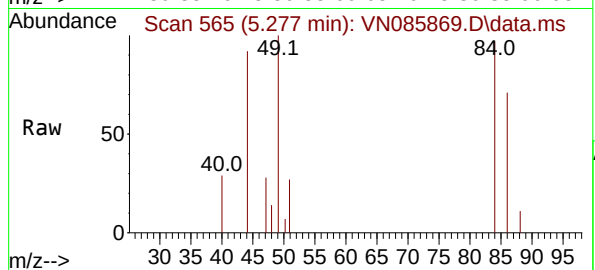
Ion Ratio Lower Upper

84 100

49 103.4 88.4 132.6

51 28.1 26.6 40.0

86 73.7 51.0 76.6



#33

1,2-Dichloroethane-d4

Concen: 52.763 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085869.D

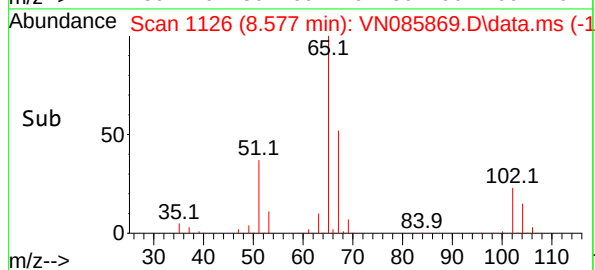
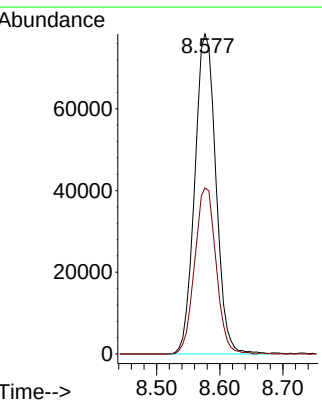
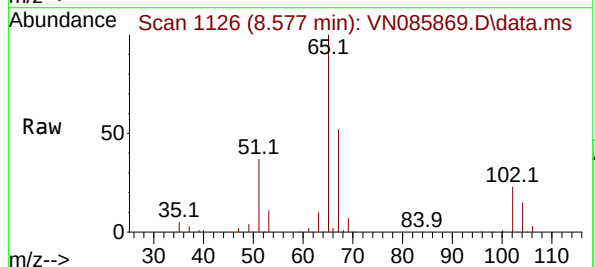
Acq: 26 Feb 2025 14:20

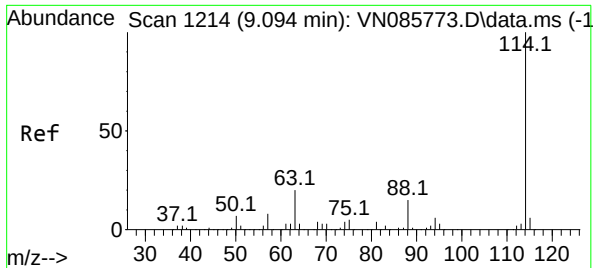
Tgt Ion: 65 Resp: 182347

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085869.D

Acq: 26 Feb 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01

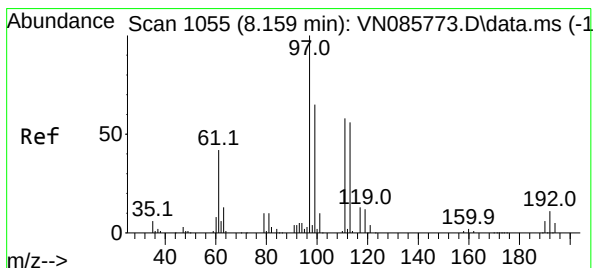
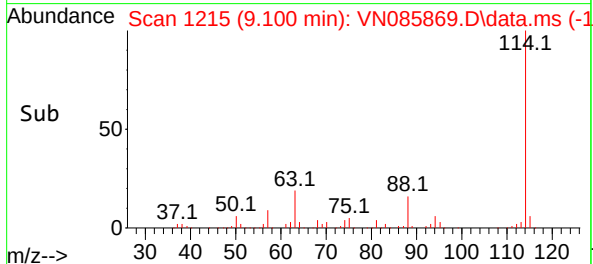
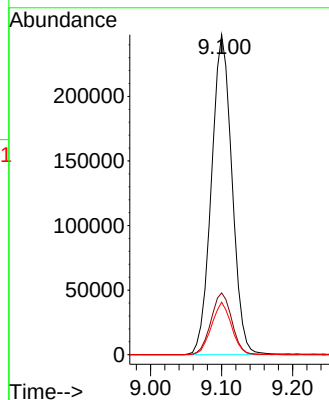
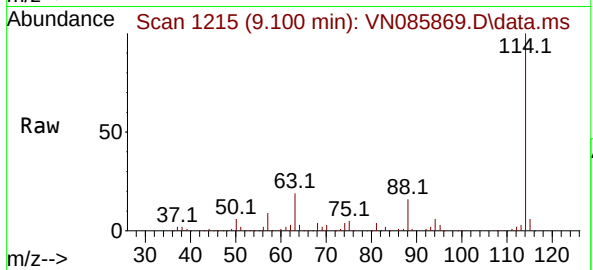
Tgt Ion:114 Resp: 497524

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.2

88 16.4 0.0 30.0



#35

Dibromofluoromethane

Concen: 49.349 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085869.D

Acq: 26 Feb 2025 14:20

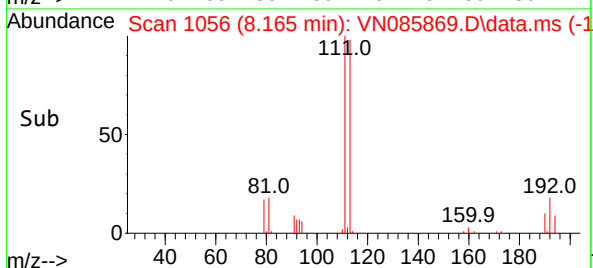
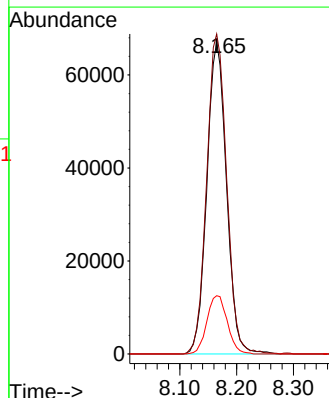
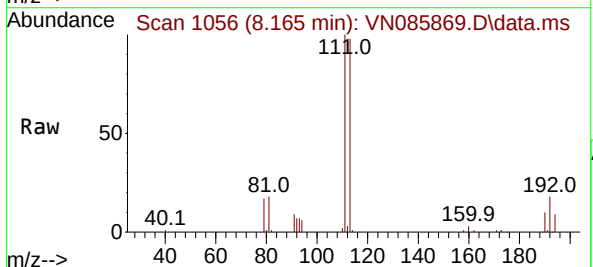
Tgt Ion:113 Resp: 160657

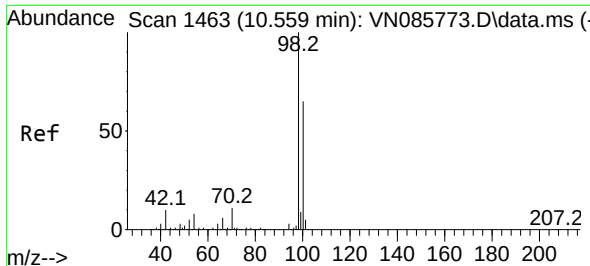
Ion Ratio Lower Upper

113 100

111 104.4 82.2 123.4

192 19.4 14.7 22.1





#50

Toluene-d8

Concen: 46.019 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085869.D

Acq: 26 Feb 2025 14:20

Instrument :

MSVOA_N

ClientSampleId :

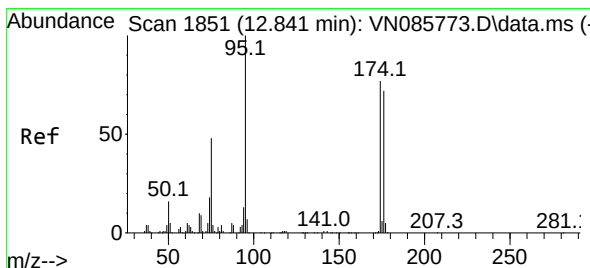
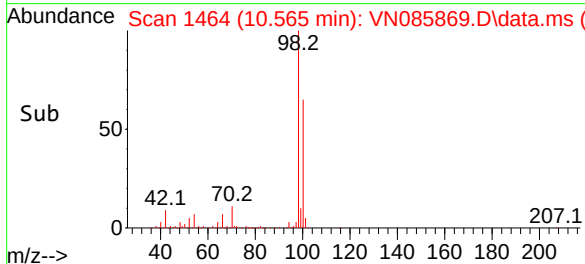
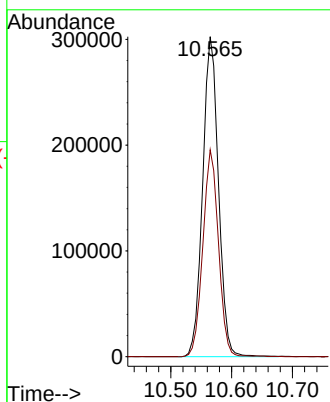
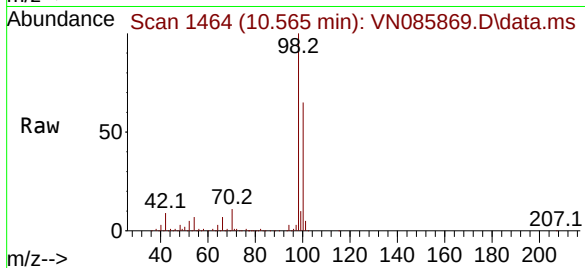
P001-CLAY-CF01-01

Tgt Ion: 98 Resp: 545079

Ion Ratio Lower Upper

98 100

100 63.9 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 45.923 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.006 min

Lab File: VN085869.D

Acq: 26 Feb 2025 14:20

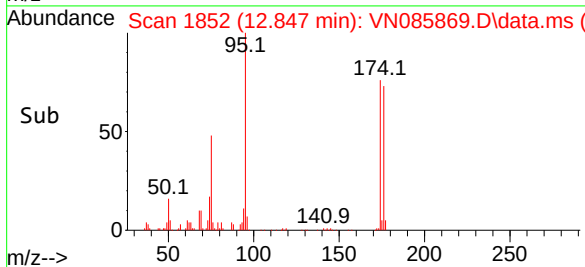
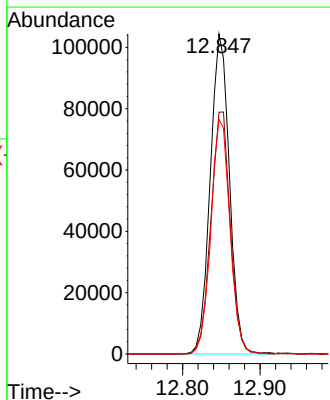
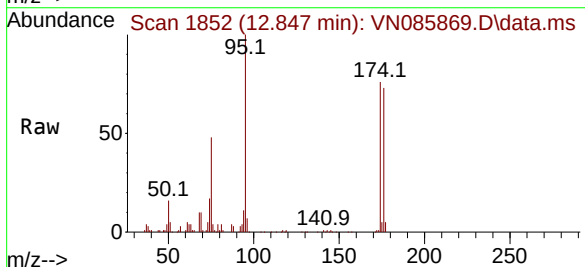
Tgt Ion: 95 Resp: 179218

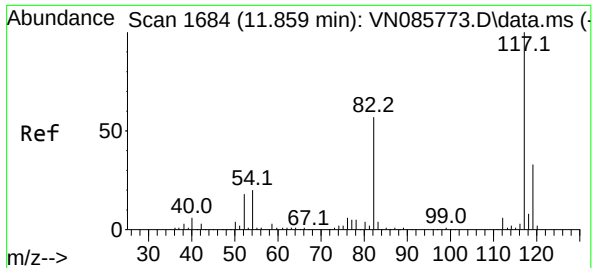
Ion Ratio Lower Upper

95 100

174 76.6 0.0 152.4

176 73.0 0.0 146.6

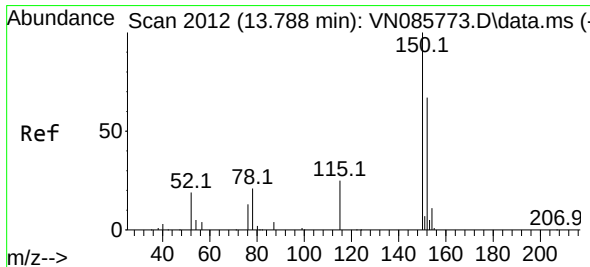
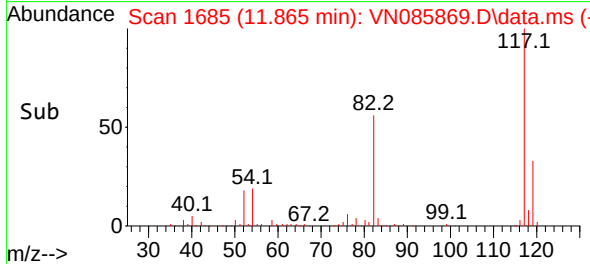
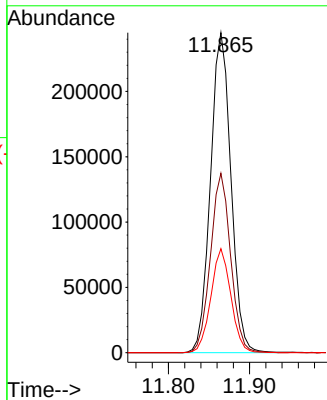
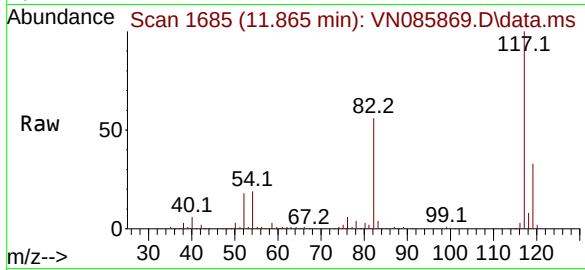




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085869.D
Acq: 26 Feb 2025 14:20

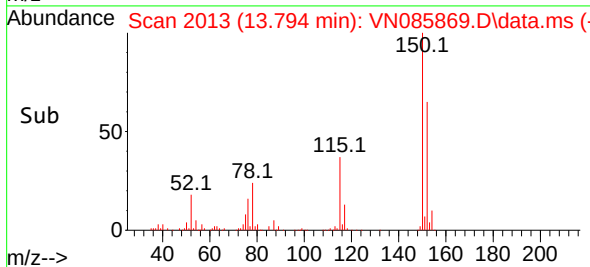
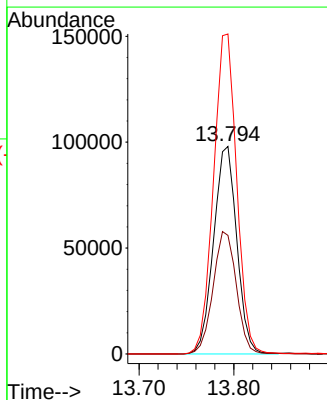
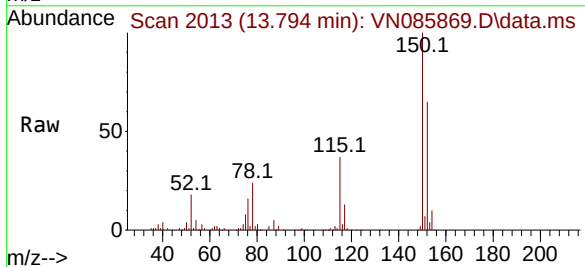
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:117 Resp: 429240
Ion Ratio Lower Upper
117 100
82 56.1 45.7 68.5
119 32.5 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN085869.D
Acq: 26 Feb 2025 14:20

Tgt Ion:152 Resp: 167346
Ion Ratio Lower Upper
152 100
115 59.2 30.4 91.3
150 153.8 0.0 345.4



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-02		SDG No.:	Q1421	
Lab Sample ID:	Q1421-08		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085870.D	1		02/26/25 14:44	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	5.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	5.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
67-64-1	Acetone	55.2		1.40	25.0	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	5.00	ug/L
75-09-2	Methylene Chloride	1.40	J	0.32	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	5.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	5.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	5.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	25.0	ug/L
108-88-3	Toluene	0.18	U	0.18	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	02/24/25	
Project:	RFP 905			Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-02			SDG No.:	Q1421	
Lab Sample ID:	Q1421-08			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085870.D	1		02/26/25 14:44	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	5.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	10.0	ug/L
95-47-6	o-Xylene	0.14	U	0.14	5.00	ug/L
100-42-5	Styrene	0.16	U	0.16	5.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	5.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	8.224			
540-36-3	1,4-Difluorobenzene	493000	9.1			
3114-55-4	Chlorobenzene-d5	428000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.794			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	SPLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085870.D	1		02/26/25 14:44	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085870.D
Acq On : 26 Feb 2025 14:44
Operator : JC\MD
Sample : Q1421-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-02

Quant Time: Feb 26 23:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

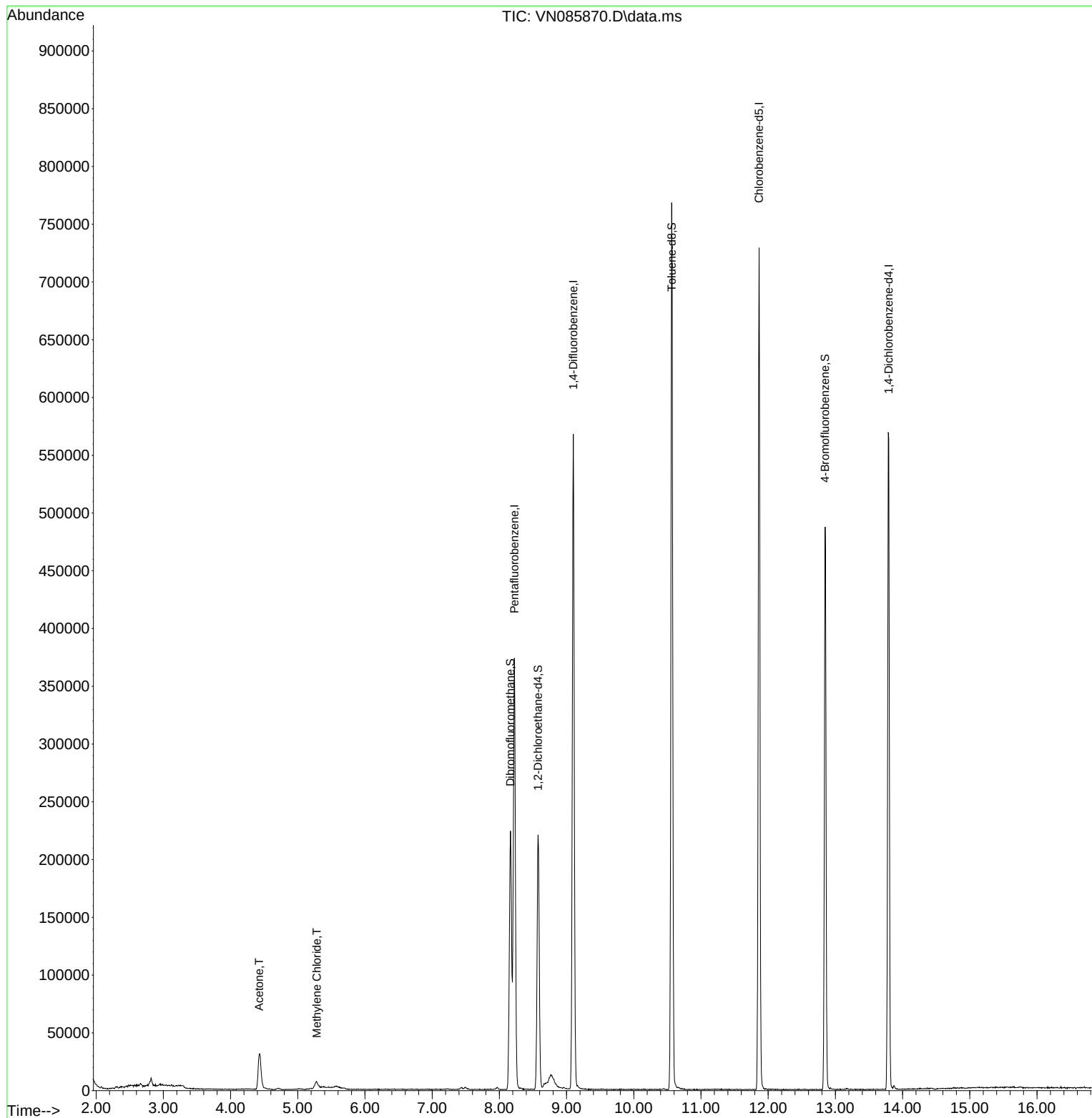
Internal Standards						
1) Pentafluorobenzene	8.224	168	265447	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	493237	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	428131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	165447	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	182372	52.993	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 105.980%		
35) Dibromofluoromethane	8.165	113	164089	50.841	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.680%		
50) Toluene-d8	10.565	98	545554	46.459	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 92.920%		
62) 4-Bromofluorobenzene	12.847	95	174199	45.025	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 90.040%		
Target Compounds						
						Qvalue
16) Acetone	4.424	43	60079	55.173	ug/l	100
20) Methylene Chloride	5.283	84	4924	1.406	ug/l	94

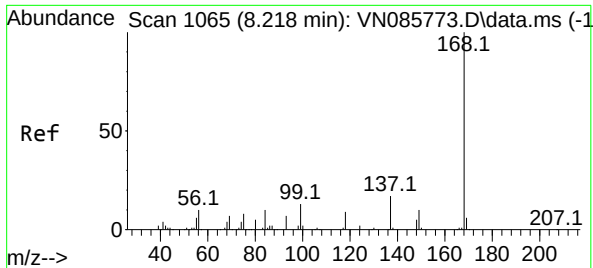
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085870.D
Acq On : 26 Feb 2025 14:44
Operator : JC\MD
Sample : Q1421-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-02

Quant Time: Feb 26 23:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

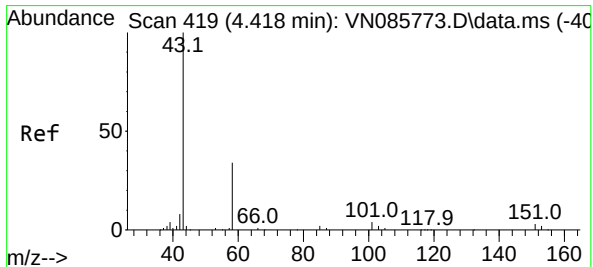
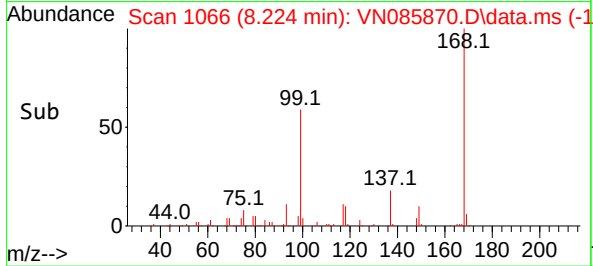
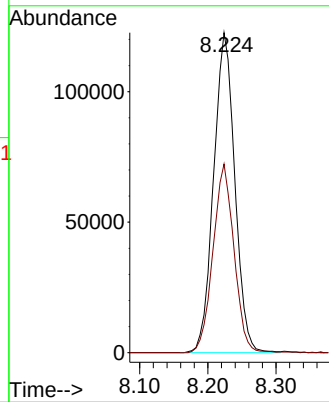
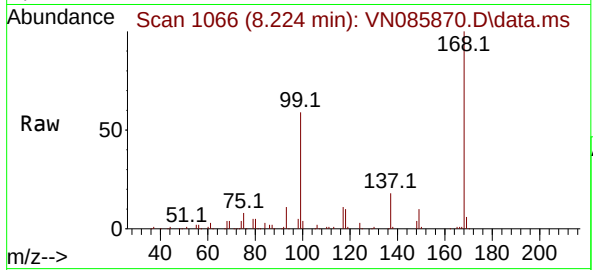




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085870.D
Acq: 26 Feb 2025 14:44

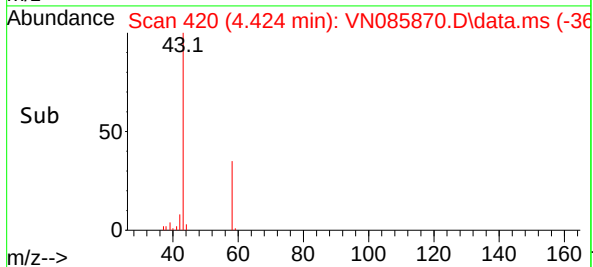
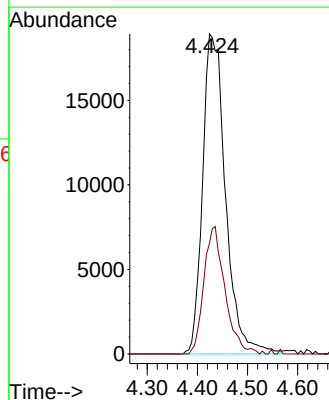
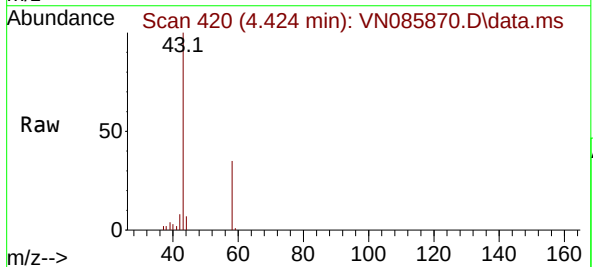
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-02

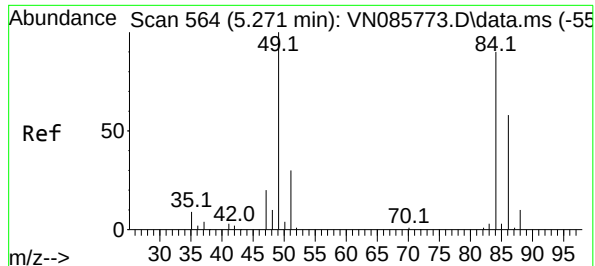
Tgt Ion:168 Resp: 265447
Ion Ratio Lower Upper
168 100
99 59.0 47.9 71.9



#16
Acetone
Concen: 55.173 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085870.D
Acq: 26 Feb 2025 14:44

Tgt Ion: 43 Resp: 60079
Ion Ratio Lower Upper
43 100
58 34.6 27.5 41.3





#20

Methylene Chloride

Concen: 1.406 ug/l

RT: 5.283 min Scan# 5

Delta R.T. 0.012 min

Lab File: VN085870.D

Acq: 26 Feb 2025 14:44

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-02

Tgt Ion: 84 Resp: 4924

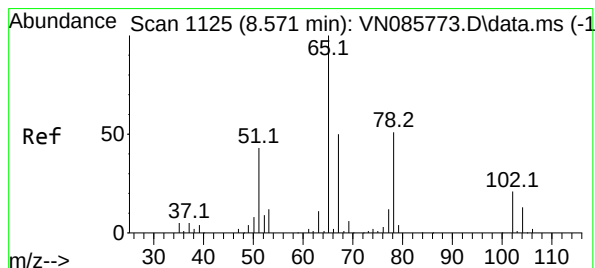
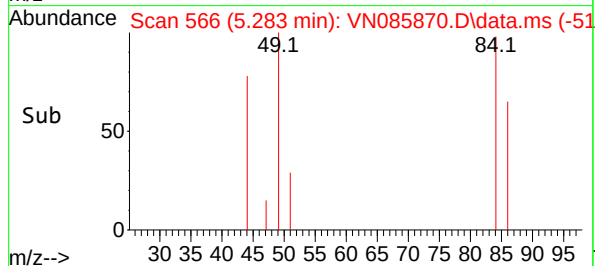
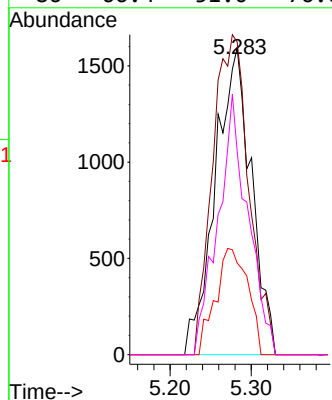
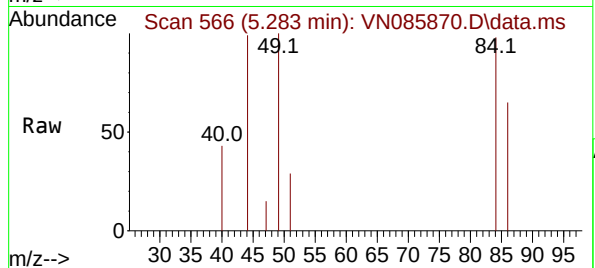
Ion Ratio Lower Upper

84 100

49 102.0 88.4 132.6

51 29.9 26.6 40.0

86 66.4 51.0 76.6



#33

1,2-Dichloroethane-d4

Concen: 52.993 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085870.D

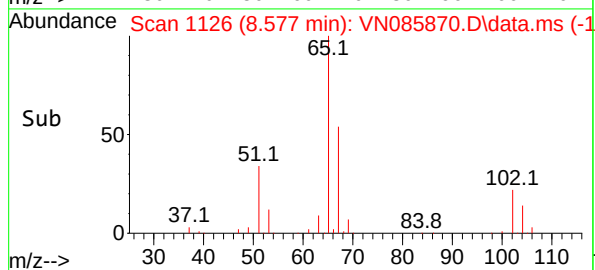
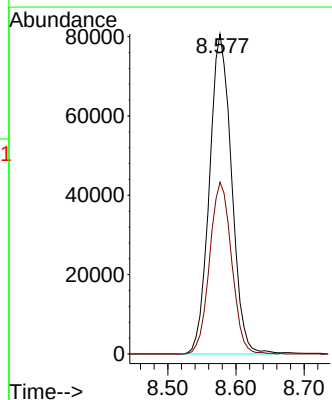
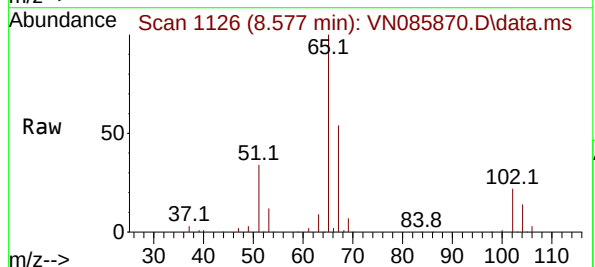
Acq: 26 Feb 2025 14:44

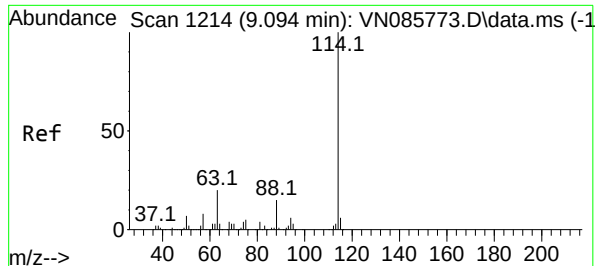
Tgt Ion: 65 Resp: 182372

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085870.D

Acq: 26 Feb 2025 14:44

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-02

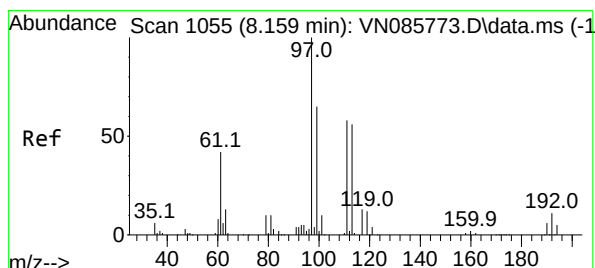
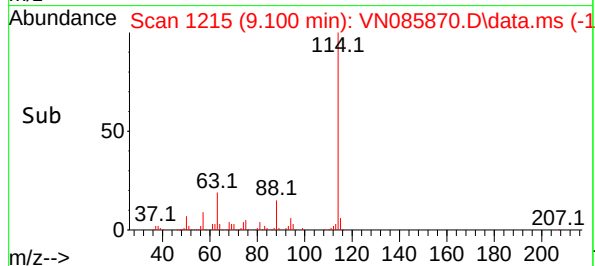
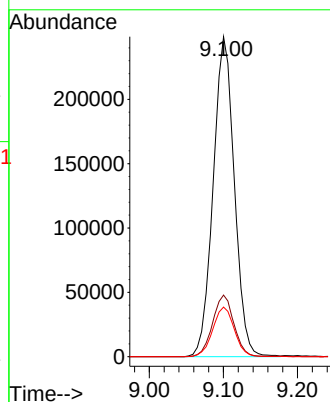
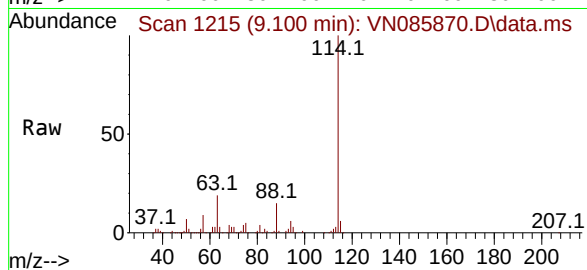
Tgt Ion:114 Resp: 493237

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.2

88 15.5 0.0 30.0



#35

Dibromofluoromethane

Concen: 50.841 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085870.D

Acq: 26 Feb 2025 14:44

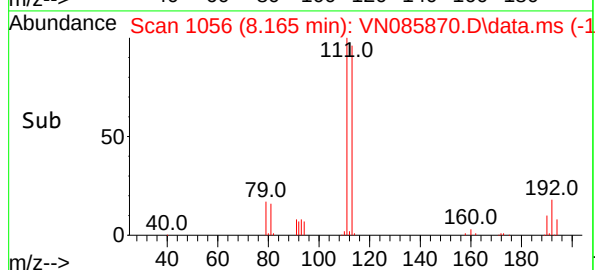
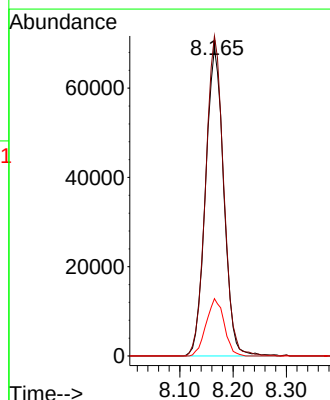
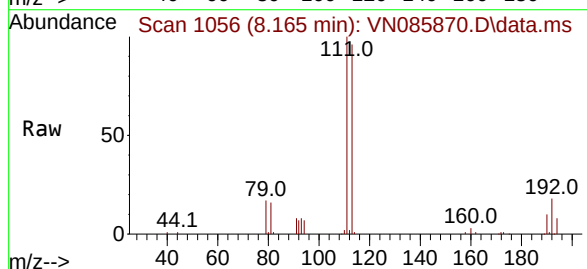
Tgt Ion:113 Resp: 164089

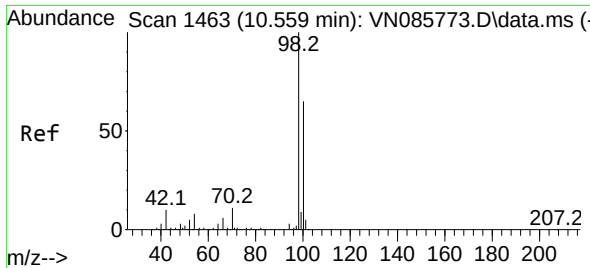
Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

192 18.4 14.7 22.1

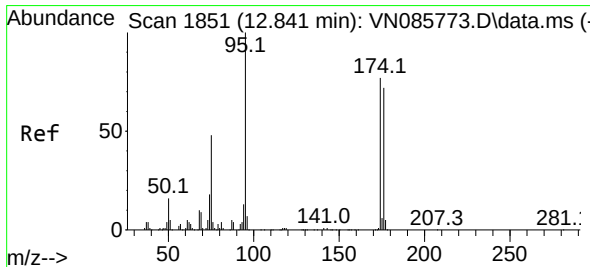
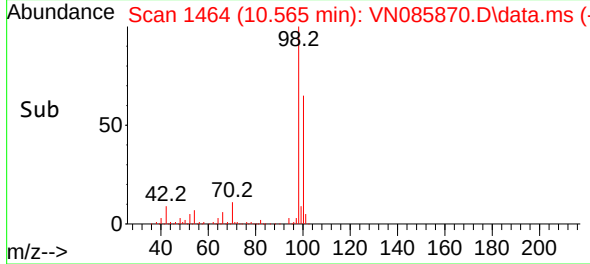
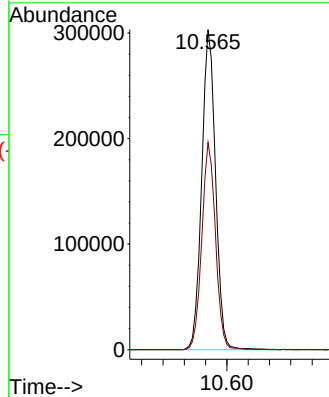
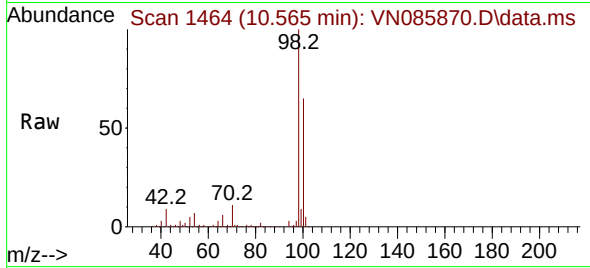




#50
Toluene-d8
Concen: 46.459 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085870.D
Acq: 26 Feb 2025 14:44

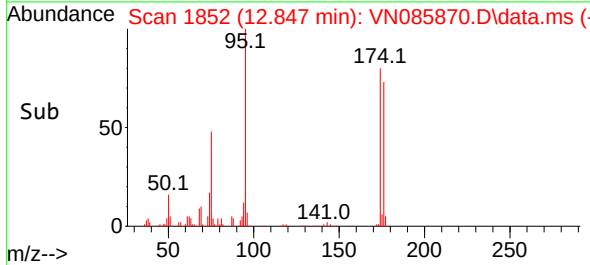
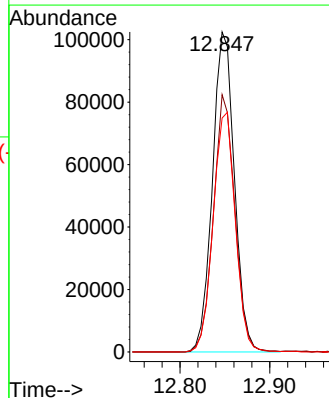
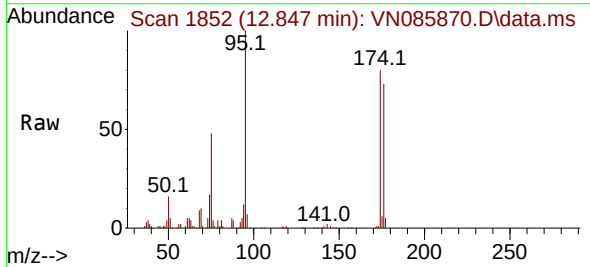
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-02

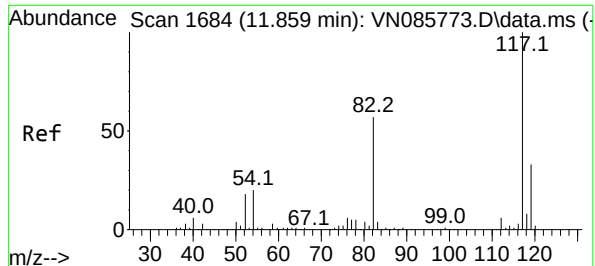
Tgt Ion: 98 Resp: 545554
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 45.025 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085870.D
Acq: 26 Feb 2025 14:44

Tgt Ion: 95 Resp: 174199
Ion Ratio Lower Upper
95 100
174 78.7 0.0 152.4
176 75.8 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085870.D

Acq: 26 Feb 2025 14:44

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-02

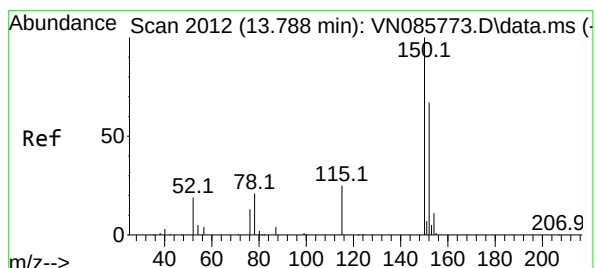
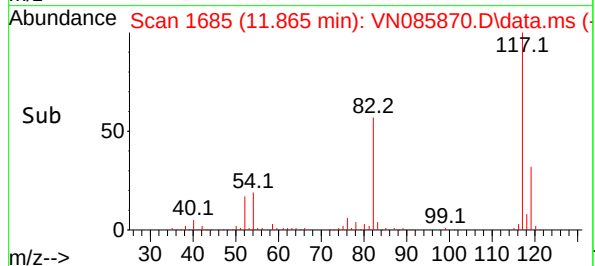
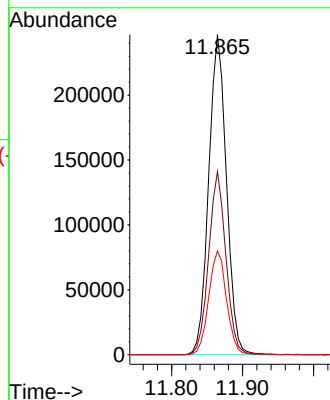
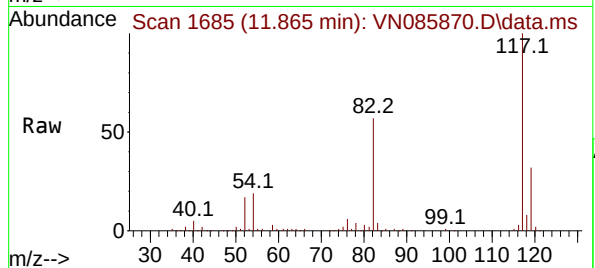
Tgt Ion:117 Resp: 428131

Ion Ratio Lower Upper

117 100

82 57.2 45.7 68.5

119 32.4 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN085870.D

Acq: 26 Feb 2025 14:44

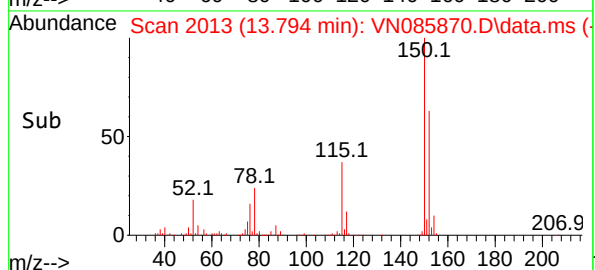
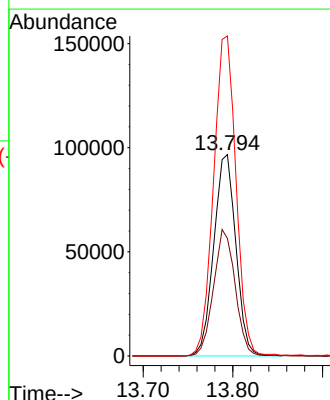
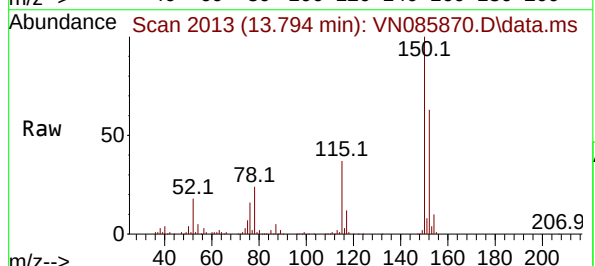
Tgt Ion:152 Resp: 165447

Ion Ratio Lower Upper

152 100

115 61.5 30.4 91.3

150 161.3 0.0 345.4



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF02-01		SDG No.:	Q1421	
Lab Sample ID:	Q1421-10		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085871.D	1		02/26/25 15:08	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	5.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	5.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
67-64-1	Acetone	21.5	J	1.40	25.0	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	5.00	ug/L
75-09-2	Methylene Chloride	1.70	J	0.32	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	5.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	5.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	5.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	25.0	ug/L
108-88-3	Toluene	0.18	U	0.18	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	SPLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085871.D	1		02/26/25 15:08	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	1.10	UQ	1.10	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	5.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	10.0	ug/L
95-47-6	o-Xylene	0.14	U	0.14	5.00	ug/L
100-42-5	Styrene	0.16	U	0.16	5.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	5.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	270000	8.224			
540-36-3	1,4-Difluorobenzene	498000	9.1			
3114-55-4	Chlorobenzene-d5	444000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	173000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085871.D	1		02/26/25 15:08	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085871.D
Acq On : 26 Feb 2025 15:08
Operator : JC\MD
Sample : Q1421-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF02-01

Quant Time: Feb 26 23:02:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

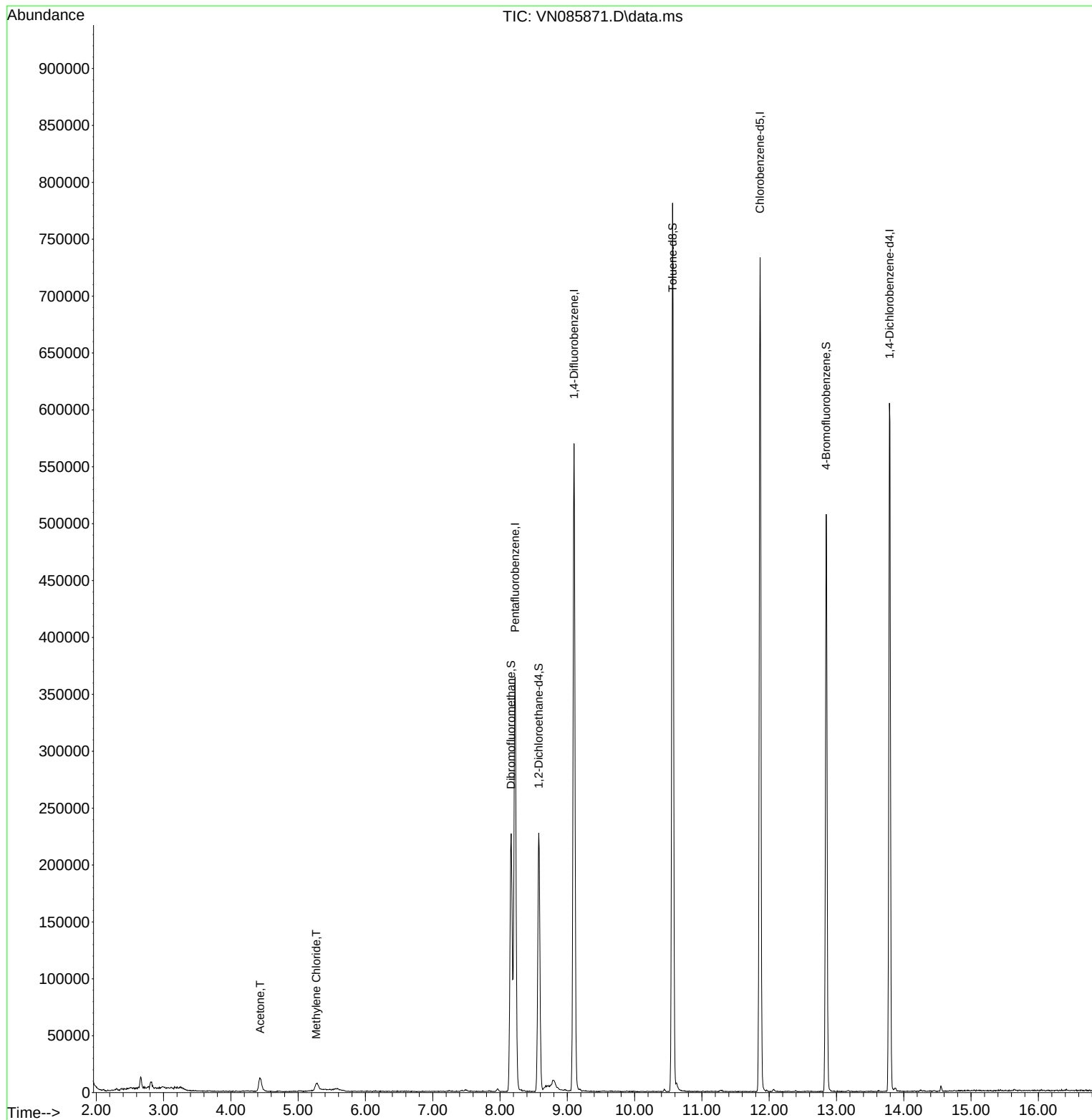
Internal Standards						
1) Pentafluorobenzene	8.224	168	269829	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	498271	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	443623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	172512	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	184049	52.612	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 105.220%		
35) Dibromofluoromethane	8.165	113	168175	51.580	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 103.160%		
50) Toluene-d8	10.565	98	552142	46.545	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 93.100%		
62) 4-Bromofluorobenzene	12.847	95	180855	46.273	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 92.540%		
Target Compounds						Qvalue
16) Acetone	4.436	43	23745	21.452	ug/l	100
20) Methylene Chloride	5.271	84	6218	1.747	ug/l #	84

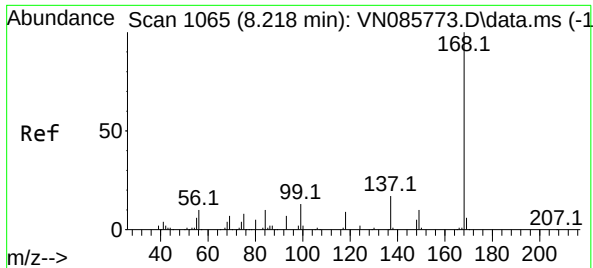
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085871.D
Acq On : 26 Feb 2025 15:08
Operator : JC\MD
Sample : Q1421-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF02-01

Quant Time: Feb 26 23:02:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

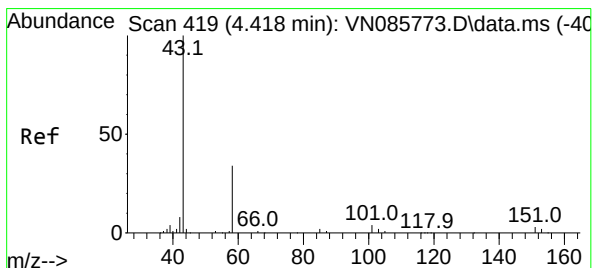
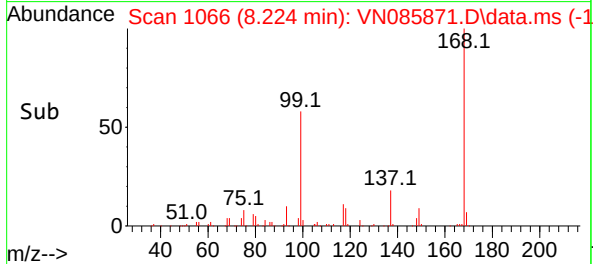
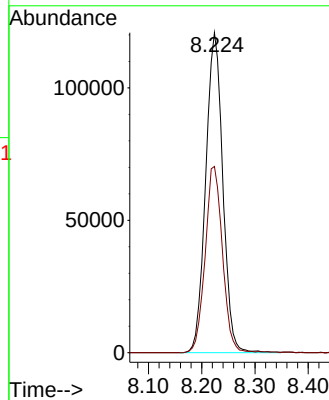
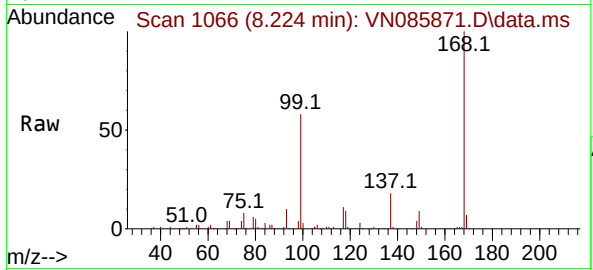




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085871.D
Acq: 26 Feb 2025 15:08

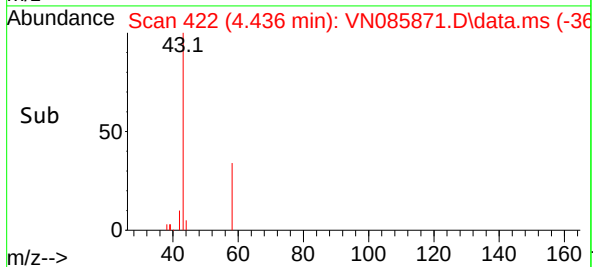
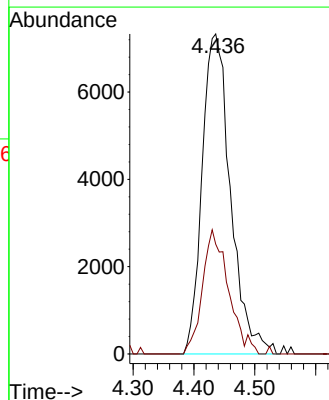
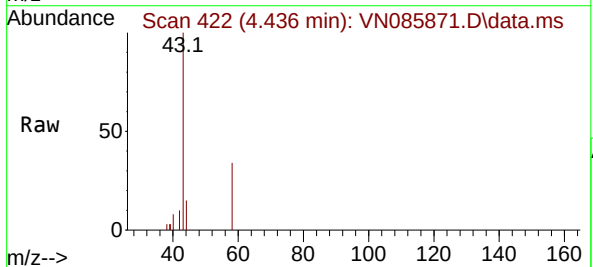
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF02-01

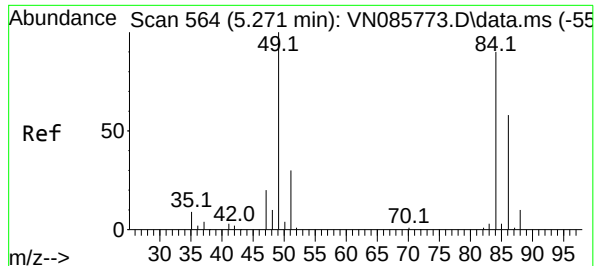
Tgt Ion:168 Resp: 269829
Ion Ratio Lower Upper
168 100
99 58.2 47.9 71.9



#16
Acetone
Concen: 21.452 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085871.D
Acq: 26 Feb 2025 15:08

Tgt Ion: 43 Resp: 23745
Ion Ratio Lower Upper
43 100
58 34.3 27.5 41.3





#20

Methylene Chloride

Concen: 1.747 ug/l

RT: 5.271 min Scan# 5

Delta R.T. 0.000 min

Lab File: VN085871.D

Acq: 26 Feb 2025 15:08

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF02-01

Tgt Ion: 84 Resp: 6218

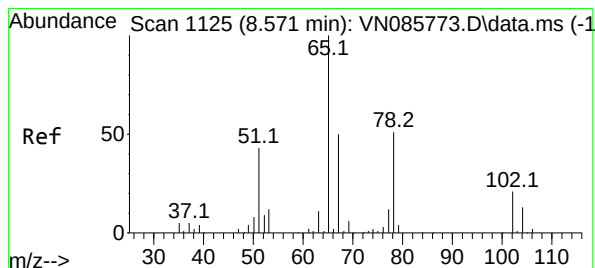
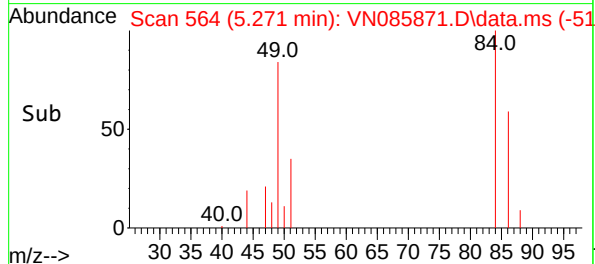
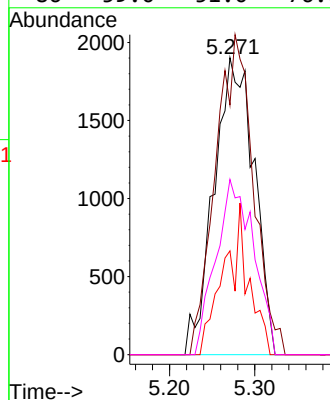
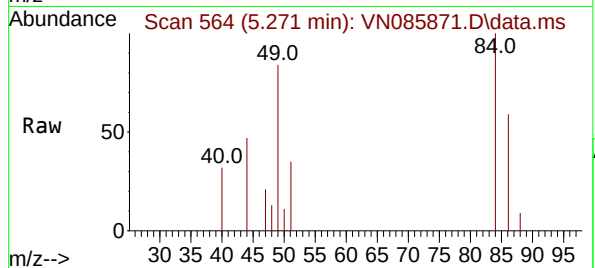
Ion Ratio Lower Upper

84 100

49 84.1 88.4 132.6#

51 35.0 26.6 40.0

86 59.0 51.0 76.6



#33

1,2-Dichloroethane-d4

Concen: 52.612 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085871.D

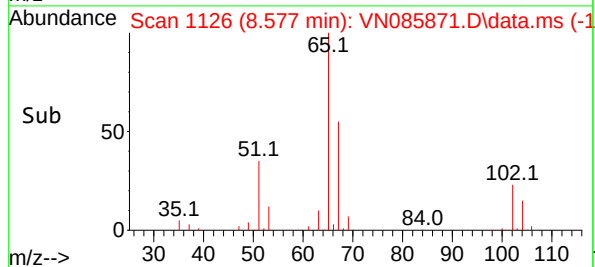
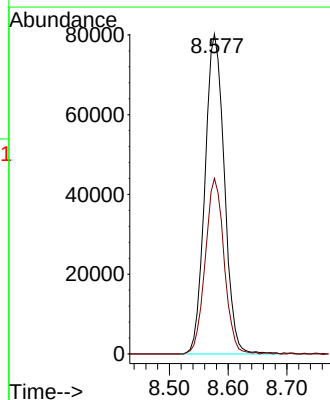
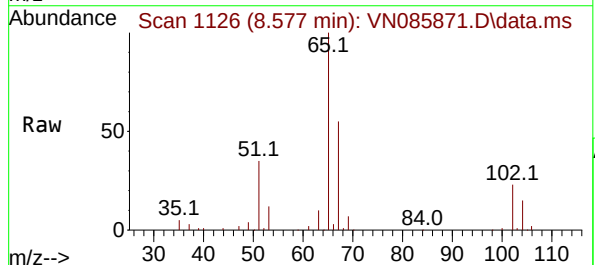
Acq: 26 Feb 2025 15:08

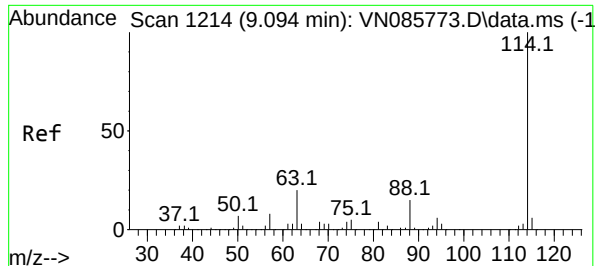
Tgt Ion: 65 Resp: 184049

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085871.D

Acq: 26 Feb 2025 15:08

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF02-01

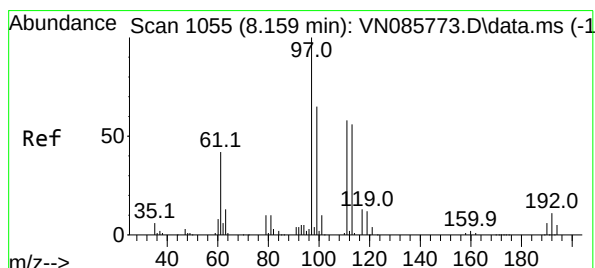
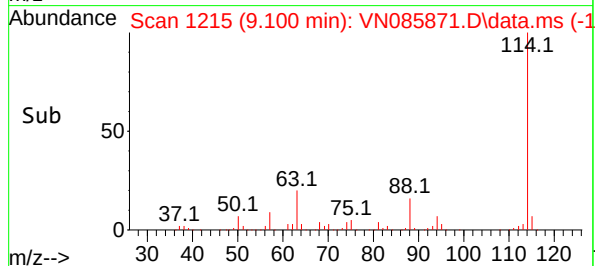
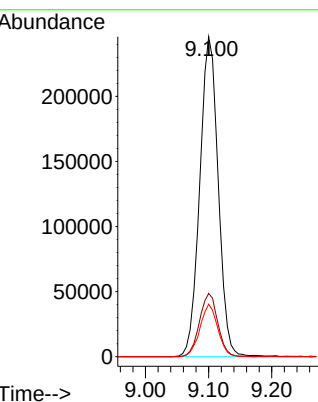
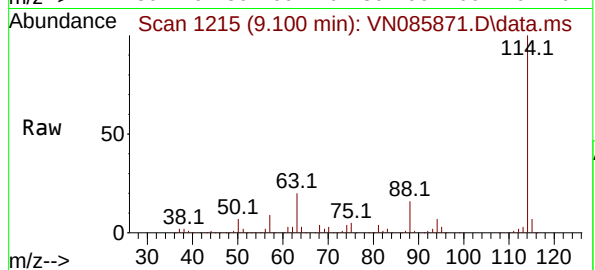
Tgt Ion:114 Resp: 498271

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.2

88 16.4 0.0 30.0



#35

Dibromofluoromethane

Concen: 51.580 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085871.D

Acq: 26 Feb 2025 15:08

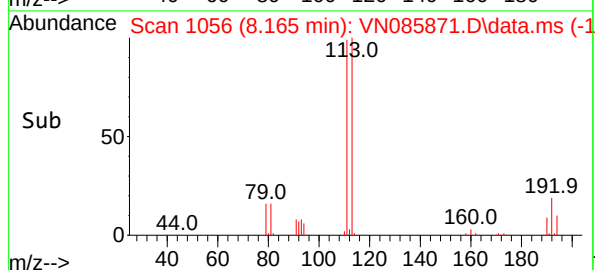
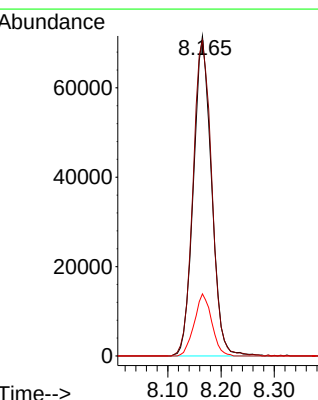
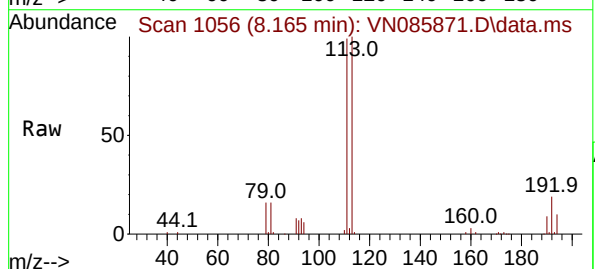
Tgt Ion:113 Resp: 168175

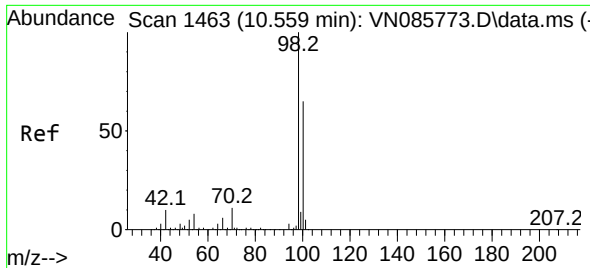
Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

192 18.8 14.7 22.1

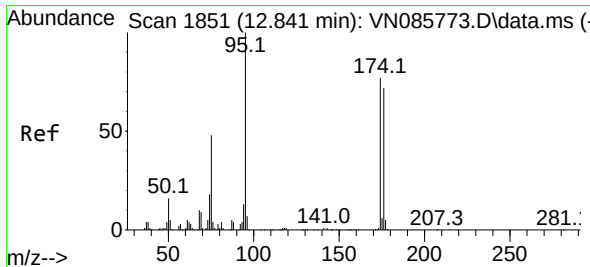
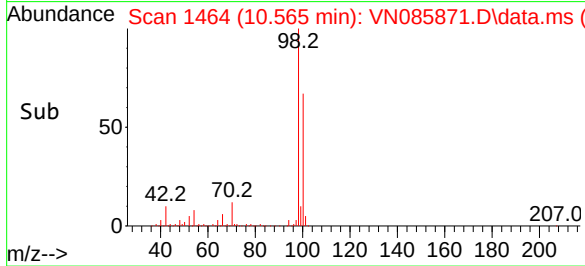
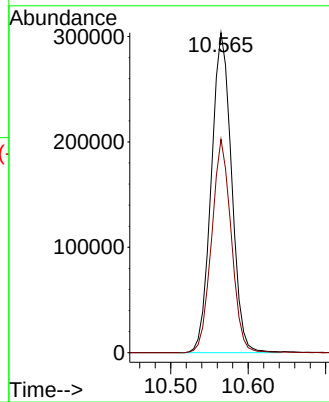
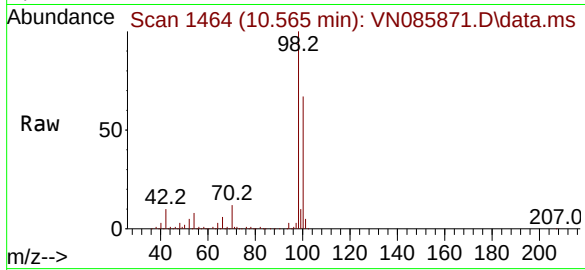




#50
Toluene-d8
Concen: 46.545 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085871.D
Acq: 26 Feb 2025 15:08

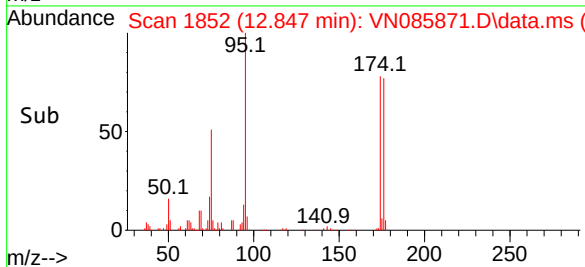
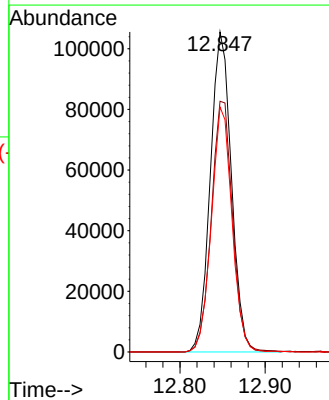
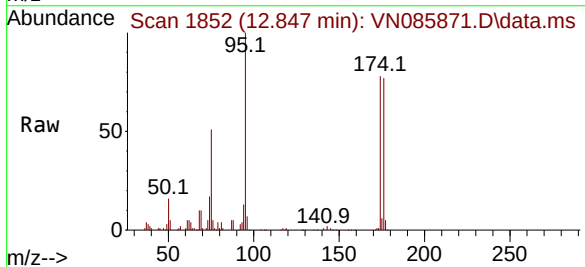
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF02-01

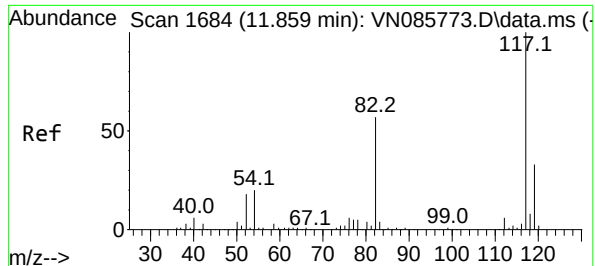
Tgt Ion: 98 Resp: 552142
Ion Ratio Lower Upper
98 100
100 64.6 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 46.273 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085871.D
Acq: 26 Feb 2025 15:08

Tgt Ion: 95 Resp: 180855
Ion Ratio Lower Upper
95 100
174 79.1 0.0 152.4
176 75.1 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085871.D

Acq: 26 Feb 2025 15:08

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF02-01

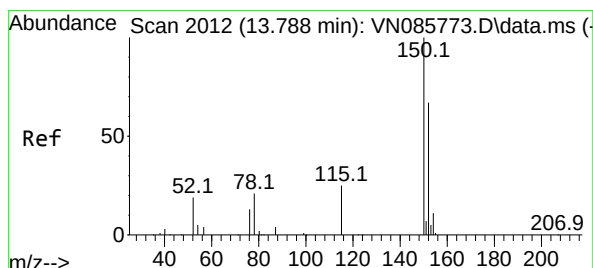
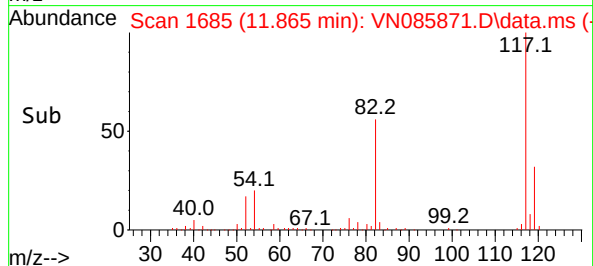
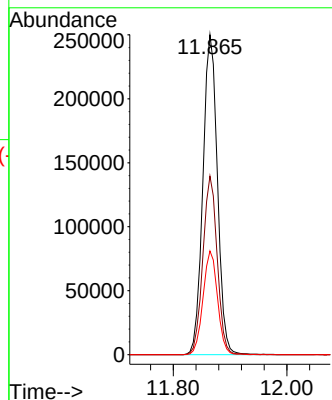
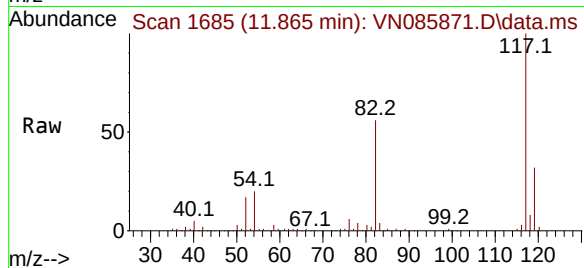
Tgt Ion:117 Resp: 443623

Ion Ratio Lower Upper

117 100

82 55.8 45.7 68.5

119 32.4 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085871.D

Acq: 26 Feb 2025 15:08

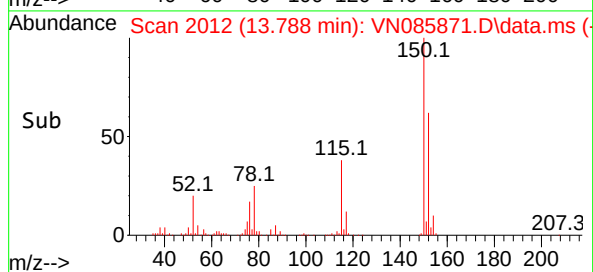
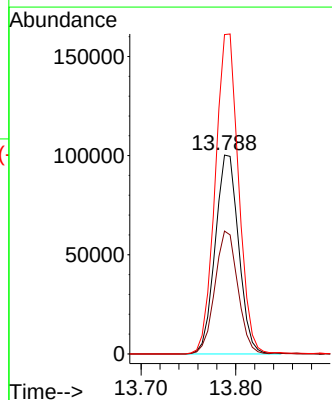
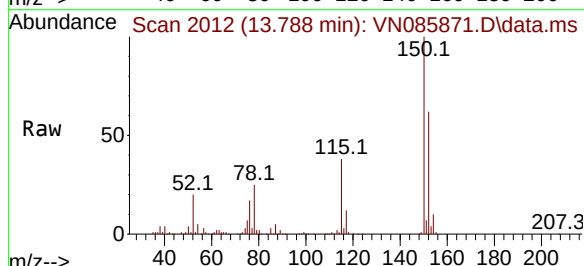
Tgt Ion:152 Resp: 172512

Ion Ratio Lower Upper

152 100

115 60.6 30.4 91.3

150 160.5 0.0 345.4





CALIBRATION SUMMARY

- 1
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- 17



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02
 Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421
 Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085772.D		RRF050 = VN085773.D		RRF010 = VN085775.D			
		RRF005 = VN085776.D		RRF001 = VN085777.D		RRF020 = VN085779.D			
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD	
Dichlorodifluoromethane	0.694	0.669	0.779	0.650	0.660	0.628	0.680	7.8	
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9	
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7	
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1	
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9	
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3	
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4	
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3	
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7	
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2	
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7	
Methyl Acetate	0.653	0.619	0.794	0.690	0.853	0.625	0.705	13.7	
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3	
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1	
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6	
Cyclohexane	0.878	0.860	0.977	1.056		0.858	0.926	9.5	
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6	
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1	
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9	
Bromochloromethane	0.481	0.444	0.346	0.570	0.483	0.402	0.454	17	
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7	
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1	
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5	
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9	
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4	
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1	
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2	
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6	
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1	
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12	

* 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: ROYF02
 Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421
 Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085772.D		RRF050 = VN085773.D		RRF010 = VN085775.D			
		RRF005 = VN085776.D		RRF001 = VN085777.D		RRF020 = VN085779.D			
COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	RRF	% RSD	
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3	
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6	
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5	
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16	
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7	
1,2-Dibromoethane	0.354	0.322	0.362	0.320	0.273	0.330	0.327	9.7	
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2	
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8	
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8	
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2	
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5	
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2	
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2	
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3	
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8	
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9	
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1	
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5	
1,2-Dibromo-3-Chloropropane	0.198	0.193	0.238	0.222	0.256	0.191	0.216	12.4	
1,2,4-Trichlorobenzene	0.877	0.802	0.827	0.728	0.829	0.704	0.794	8.3	
1,2,3-Trichlorobenzene	0.825	0.789	0.844	0.736	0.917	0.675	0.798	10.6	
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6	
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5	
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8	
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N021825W.M
 Title : SW846 8260
 Last Update : Wed Feb 19 03:43:32 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN085777.D 5 =VN085776.D 10 =VN085775.D 20 =VN085779.D 50 =VN085773.D 100 =VN085772.D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.660	0.650	0.779	0.628	0.669	0.694	0.680	7.78
3) P	Chloromethane	0.817	0.662	0.742	0.604	0.622	0.647	0.682	11.93
4) C	Vinyl Chloride	0.761	0.729	0.796	0.674	0.678	0.698	0.723	6.72#
5) T	Bromomethane		0.496	0.543	0.413	0.424	0.434	0.462	12.05
6) T	Chloroethane	0.584	0.470	0.516	0.438	0.417	0.447	0.479	12.88
7) T	Trichlorofluor...	1.103	1.065	1.134	1.006	0.959	1.010	1.046	6.33
8) T	Diethyl Ether	0.313	0.353	0.366	0.325	0.331	0.343	0.339	5.72
9) T	1,1,2-Trichlor...	0.554	0.635	0.674	0.599	0.564	0.602	0.605	7.39
10) T	Methyl Iodide		0.724	0.806	0.712	0.722	0.764	0.745	5.24
11) T	Tert butyl alc...		0.083	0.092	0.073	0.078	0.072	0.080	9.91
12) CM	1,1-Dichloroet...	0.514	0.571	0.591	0.531	0.527	0.555	0.548	5.35#
13) T	Acrolein		0.126	0.117	0.105	0.126	0.116	0.118	7.35
14) T	Allyl chloride	0.694	0.724	0.778	0.686	0.691	0.747	0.720	5.13
15) T	Acrylonitrile	0.255	0.260	0.278	0.256	0.245	0.262	0.259	4.23
16) T	Acetone	0.227	0.208	0.217	0.198	0.184	0.195	0.205	7.68
17) T	Carbon Disulfide	1.848	1.604	1.804	1.455	1.473	1.565	1.625	10.22
18) T	Methyl Acetate	0.853	0.690	0.794	0.625	0.619	0.653	0.705	13.70
19) T	Methyl tert-bu...	1.438	1.560	1.714	1.659	1.658	1.747	1.629	6.95
20) T	Methylene Chlo...	0.736	0.666	0.710	0.625	0.593	0.628	0.660	8.34
21) T	trans-1,2-Dich...	0.623	0.599	0.621	0.566	0.549	0.585	0.590	5.05
22) T	Diisopropyl ether	1.326	1.567	1.764	1.716	1.643	1.744	1.627	10.09
23) T	Vinyl Acetate	0.999	1.034	1.189	1.126	1.118	1.218	1.114	7.63
24) P	1,1-Dichloroet...	1.073	1.125	1.216	1.089	1.035	1.097	1.106	5.59
25) T	2-Butanone	0.279	0.299	0.331	0.299	0.294	0.308	0.302	5.61
26) T	2,2-Dichloropr...	0.943	0.987	1.069	0.971	0.946	0.984	0.983	4.68
27) T	cis-1,2-Dichlo...	0.646	0.685	0.740	0.671	0.661	0.705	0.685	4.91
28) T	Bromochloromet...	0.483	0.570	0.346	0.402	0.444	0.481	0.454	16.96
29) T	Tetrahydrofuran	0.167	0.183	0.214	0.204	0.196	0.206	0.195	8.97
30) C	Chloroform	1.171	1.164	1.269	1.141	1.070	1.120	1.156	5.74#
31) T	Cyclohexane		1.056	0.977	0.858	0.860	0.878	0.926	9.50
32) T	1,1,1-Trichlor...	1.030	1.058	1.089	1.012	0.967	1.012	1.028	4.09
33) S	1,2-Dichloroet...		0.767	0.588	0.575	0.613	0.698	0.648	12.64
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.357	0.294	0.293	0.317	0.375	0.327	11.46
36) T	1,1-Dichloropr...	0.426	0.436	0.490	0.458	0.460	0.509	0.463	6.84
37) T	Ethyl Acetate	0.353	0.376	0.385	0.396	0.375	0.400	0.381	4.47
38) T	Carbon Tetrach...	0.533	0.545	0.583	0.538	0.528	0.573	0.550	4.11
39) T	Methylcyclohexane	0.373	0.405	0.446	0.453	0.492	0.560	0.455	14.50
40) TM	Benzene	1.420	1.421	1.568	1.474	1.441	1.581	1.484	4.89
41) T	Methacrylonitrile	0.165	0.197	0.211	0.211	0.216	0.222	0.204	10.14
42) TM	1,2-Dichloroet...	0.472	0.464	0.527	0.483	0.456	0.499	0.483	5.42
43) T	Isopropyl Acetate	1.354	0.742	0.764	0.670	0.637	0.673	0.807	33.76
44) TM	Trichloroethene	0.395	0.350	0.384	0.348	0.339	0.370	0.364	6.15
45) C	1,2-Dichloropr...	0.339	0.344	0.385	0.357	0.347	0.377	0.358	5.25#
46) T	Dibromomethane	0.242	0.245	0.265	0.256	0.243	0.266	0.253	4.42
47) T	Bromodichlorom...	0.512	0.533	0.571	0.541	0.518	0.569	0.541	4.62
48) T	Methyl methacr...	0.236	0.258	0.277	0.294	0.301	0.332	0.283	11.90
49) T	1,4-Dioxane	0.005	0.005	0.006	0.005	0.006	0.005	0.005	5.54
50) S	Toluene-d8		1.212	1.017	1.080	1.199	1.444	1.190	13.77
51) T	4-Methyl-2-Pen...	0.290	0.342	0.392	0.388	0.379	0.414	0.367	12.11
52) CM	Toluene	0.689	0.820	0.924	0.891	0.902	0.993	0.870	12.03#
53) T	t-1,3-Dichloro...	0.408	0.471	0.518	0.505	0.521	0.576	0.500	11.31
54) T	cis-1,3-Dichlo...	0.442	0.513	0.582	0.559	0.566	0.626	0.548	11.58
55) T	1,1,2-Trichlor...	0.324	0.346	0.370	0.344	0.331	0.361	0.346	5.04
56) T	Ethyl methacry...	0.264	0.382	0.448	0.457	0.497	0.557	0.434	23.32

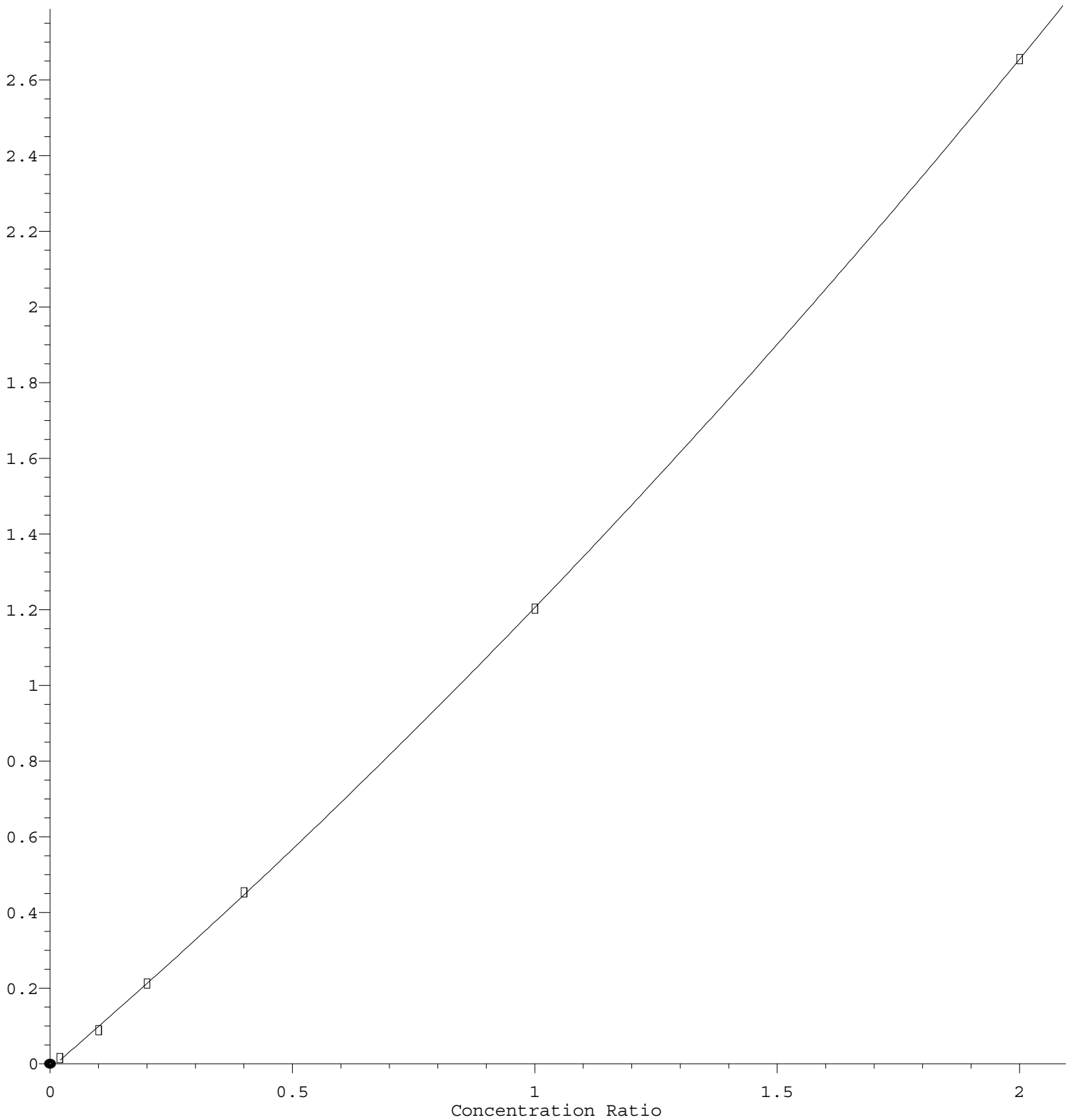
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N021825W.M

57)	T	1,3-Dichloropr...	0.533	0.553	0.615	0.580	0.565	0.619	0.577	5.91
58)	T	2-Chloroethyl ...	0.133	0.176	0.170	0.249	0.174	0.266	0.195	26.24
59)	T	2-Hexanone	0.184	0.227	0.266	0.270	0.273	0.296	0.253	15.99
60)	T	Dibromochlorom...	0.355	0.384	0.431	0.405	0.402	0.440	0.403	7.70
61)	T	1,2-Dibromoethane	0.273	0.320	0.362	0.330	0.322	0.354	0.327	9.68
62)	S	4-Bromofluorob...	0.370	0.323	0.346	0.419	0.503	0.392		18.22
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.393	0.391	0.420	0.375	0.361	0.384	0.387	5.17
65)	PM	Chlorobenzene	1.109	1.139	1.212	1.119	1.110	1.183	1.145	3.75
66)	T	1,1,1,2-Tetrac...	0.408	0.402	0.444	0.401	0.395	0.420	0.412	4.31
67)	C	Ethyl Benzene	1.424	1.665	1.830	1.838	1.904	2.105	1.794	12.85#
68)	T	m/p-Xylenes	0.481	0.610	0.725	0.722	0.741	0.809	0.682	17.19
69)	T	o-Xylene	0.502	0.584	0.666	0.659	0.704	0.771	0.648	14.48
70)	T	Styrene	0.744	0.885	1.060	1.133	1.203	1.327	1.059	20.15
71)	P	Bromoform	0.274	0.301	0.322	0.309	0.303	0.327	0.306	6.20
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.933	3.067	3.623	3.484	3.596	3.851	3.425	10.31
74)	T	N-amyl acetate	1.072	1.117	1.263	1.245	1.241	1.311	1.208	7.67
75)	P	1,1,2,2-Tetrac...	1.271	1.218	1.304	1.154	1.053	1.073	1.179	8.77
76)	T	1,2,3-Trichlor...	1.324	1.161	1.145	1.122	0.947	0.964	1.111	12.59
77)	T	Bromobenzene	0.862	0.905	1.024	0.908	0.904	0.950	0.925	6.01
78)	T	n-propylbenzene	3.031	3.463	4.126	4.090	4.256	4.572	3.923	14.46
79)	T	2-Chlorotoluene	2.385	2.425	2.842	2.681	2.616	2.779	2.621	7.07
80)	T	1,3,5-Trimethy...	2.032	2.418	2.989	3.004	3.056	3.243	2.790	16.62
81)	T	trans-1,4-Dich...	0.339	0.392	0.367	0.397	0.409	0.381		7.38
82)	T	4-Chlorotoluene	2.201	2.437	2.837	2.643	2.658	2.815	2.598	9.32
83)	T	tert-Butylbenzene	1.802	2.119	2.432	2.421	2.578	2.727	2.346	14.27
84)	T	1,2,4-Trimethy...	1.838	2.387	2.937	3.018	3.078	3.306	2.761	19.75
85)	T	sec-Butylbenzene	2.486	2.938	3.534	3.417	3.653	3.864	3.315	15.40
86)	T	p-Isopropyltol...	1.779	2.288	2.776	2.804	3.045	3.299	2.665	20.58
87)	T	1,3-Dichlorobe...	1.748	1.697	1.876	1.675	1.635	1.772	1.734	4.93
88)	T	1,4-Dichlorobe...	1.921	1.777	1.884	1.684	1.647	1.750	1.777	6.08
89)	T	n-Butylbenzene	2.102	2.032	2.338	2.271	2.551	2.829	2.354	12.58
90)	T	Hexachloroethane	0.707	0.629	0.635	0.589	0.587	0.620	0.628	6.99
91)	T	1,2-Dichlorobe...	1.744	1.642	1.768	1.617	1.574	1.660	1.667	4.48
92)	T	1,2-Dibromo-3-...	0.256	0.222	0.238	0.191	0.193	0.198	0.216	12.42
93)	T	1,2,4-Trichlor...	0.829	0.728	0.827	0.704	0.802	0.877	0.794	8.31
94)	T	Hexachlorobuta...	0.649	0.481	0.503	0.405	0.424	0.435	0.483	18.51
95)	T	Naphthalene	2.397	1.858	2.160	1.821	2.324	2.527	2.181	13.31
96)	T	1,2,3-Trichlor...	0.917	0.736	0.844	0.675	0.789	0.825	0.798	10.65

(#) = Out of Range

Styrene

Response Ratio



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085772.D
 Acq On : 18 Feb 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Feb 19 03:15:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	290979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	458183	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	412615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	406028	107.630	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 215.260%#			
35) Dibromofluoromethane	8.159	113	343729	114.648	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 229.300%#			
50) Toluene-d8	10.559	98	1323681	121.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 242.700%#			
62) 4-Bromofluorobenzene	12.841	95	460996	128.269	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 256.540%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	403621	101.979	ug/l	99
3) Chloromethane	2.359	50	376343	94.759	ug/l	99
4) Vinyl Chloride	2.512	62	406434	96.652	ug/l	100
5) Bromomethane	2.948	94	252576	93.935	ug/l	99
6) Chloroethane	3.118	64	260404	93.490	ug/l	97
7) Trichlorofluoromethane	3.495	101	587970	96.574	ug/l	98
8) Diethyl Ether	3.959	74	199406	101.225	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	350536	99.604	ug/l	98
10) Methyl Iodide	4.583	142	444531	102.472	ug/l	98
11) Tert butyl alcohol	5.506	59	210616	453.930	ug/l	100
12) 1,1-Dichloroethene	4.336	96	323037	101.234	ug/l	96
13) Acrolein	4.171	56	337091	489.916	ug/l	98
14) Allyl chloride	5.018	41	434760	103.773	ug/l	97
15) Acrylonitrile	5.706	53	761272	504.697	ug/l	99
16) Acetone	4.418	43	567220	475.190	ug/l	99
17) Carbon Disulfide	4.706	76	910987	96.328	ug/l	99
18) Methyl Acetate	5.012	43	379901	92.531	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	1016766	107.229	ug/l	100
20) Methylene Chloride	5.271	84	365222	95.142	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	340161	99.001	ug/l	96
22) Diisopropyl ether	6.665	45	1015041	107.223	ug/l	99
23) Vinyl Acetate	6.594	43	3542783	548.253	ug/l	100
24) 1,1-Dichloroethane	6.565	63	638203	99.172	ug/l	98
25) 2-Butanone	7.471	43	896027	510.235	ug/l	100
26) 2,2-Dichloropropane	7.483	77	572429	100.033	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	410066	102.929	ug/l	99
28) Bromochloromethane	7.806	49	280092	105.895	ug/l	97
29) Tetrahydrofuran	7.830	42	599504	528.664	ug/l	100
30) Chloroform	7.959	83	651761	96.914	ug/l	99
31) Cyclohexane	8.253	56	511031	94.843	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	589206	98.502	ug/l	98
36) 1,1-Dichloropropene	8.365	75	466531	109.949	ug/l	99
37) Ethyl Acetate	7.553	43	366887	105.069	ug/l	99
38) Carbon Tetrachloride	8.353	117	524870	104.105	ug/l	98
39) Methylcyclohexane	9.594	83	513492	123.184	ug/l	98
40) Benzene	8.600	78	1448660	106.522	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085772.D
 Acq On : 18 Feb 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:15:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	203689	109.119	ug/l	95
42) 1,2-Dichloroethane	8.665	62	457707	103.326	ug/l	100
43) Isopropyl Acetate	8.683	43	616521	101.163	ug/l	98
44) Trichloroethene	9.347	130	339019	101.529	ug/l	100
45) 1,2-Dichloropropane	9.618	63	345721	105.316	ug/l	99
46) Dibromomethane	9.700	93	243628	105.216	ug/l	100
47) Bromodichloromethane	9.883	83	521496	105.269	ug/l	99
48) Methyl methacrylate	9.677	41	304067	117.252	ug/l	100
49) 1,4-Dioxane	9.688	88	100443	2036.793	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	1896777	563.403	ug/l	100
52) Toluene	10.624	92	910251	114.182	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	527815	115.223	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	573653	114.202	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	330642	104.317	ug/l	99
56) Ethyl methacrylate	10.871	69	510041	100.007	ug/l	100
57) 1,3-Dichloropropane	11.159	76	567039	107.169	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	1216927	502.158	ug/l	99
59) 2-Hexanone	11.188	43	1358126	586.394	ug/l	99
60) Dibromochloromethane	11.353	129	402920	109.169	ug/l	99
61) 1,2-Dibromoethane	11.465	107	324747	108.439	ug/l	99
64) Tetrachloroethene	11.100	164	316658	99.063	ug/l	97
65) Chlorobenzene	11.888	112	976337	103.290	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	346777	102.068	ug/l	100
67) Ethyl Benzene	11.959	91	1736848	117.301	ug/l	100
68) m/p-Xylenes	12.065	106	1335750	237.496	ug/l	99
69) o-Xylene	12.394	106	635879	118.977	ug/l	99
70) Styrene	12.406	104	1095464	100.012	ug/l	100
71) Bromoform	12.576	173	269816	106.877	ug/l #	98
73) Isopropylbenzene	12.688	105	1605096	112.422	ug/l	100
74) N-amyl acetate	12.488	43	546485	108.541	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	447332	91.050	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	401864m	87.774	ug/l	
77) Bromobenzene	12.976	156	395882	102.631	ug/l	100
78) n-propylbenzene	13.029	91	1905758	116.552	ug/l	100
79) 2-Chlorotoluene	13.118	91	1158348	106.029	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	1351753	116.226	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	170494	107.459	ug/l	96
82) 4-Chlorotoluene	13.218	91	1173182	108.322	ug/l	99
83) tert-Butylbenzene	13.435	119	1136802	116.235	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	1378080	119.764	ug/l	100
85) sec-Butylbenzene	13.612	105	1610382	116.540	ug/l	100
86) p-Isopropyltoluene	13.723	119	1374884	99.983	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	738679	102.213	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	729470	98.484	ug/l	99
89) n-Butylbenzene	14.053	91	1179057	120.179	ug/l	99
90) Hexachloroethane	14.329	117	258559	98.800	ug/l	97
91) 1,2-Dichlorobenzene	14.100	146	691905	99.562	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	82545	91.495	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	365599	110.404	ug/l	99
94) Hexachlorobutadiene	15.494	225	181264	90.068	ug/l	98
95) Naphthalene	15.635	128	1053414	115.870	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	343936	103.456	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085772.D
Acq On : 18 Feb 2025 11:09
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Feb 19 03:15:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

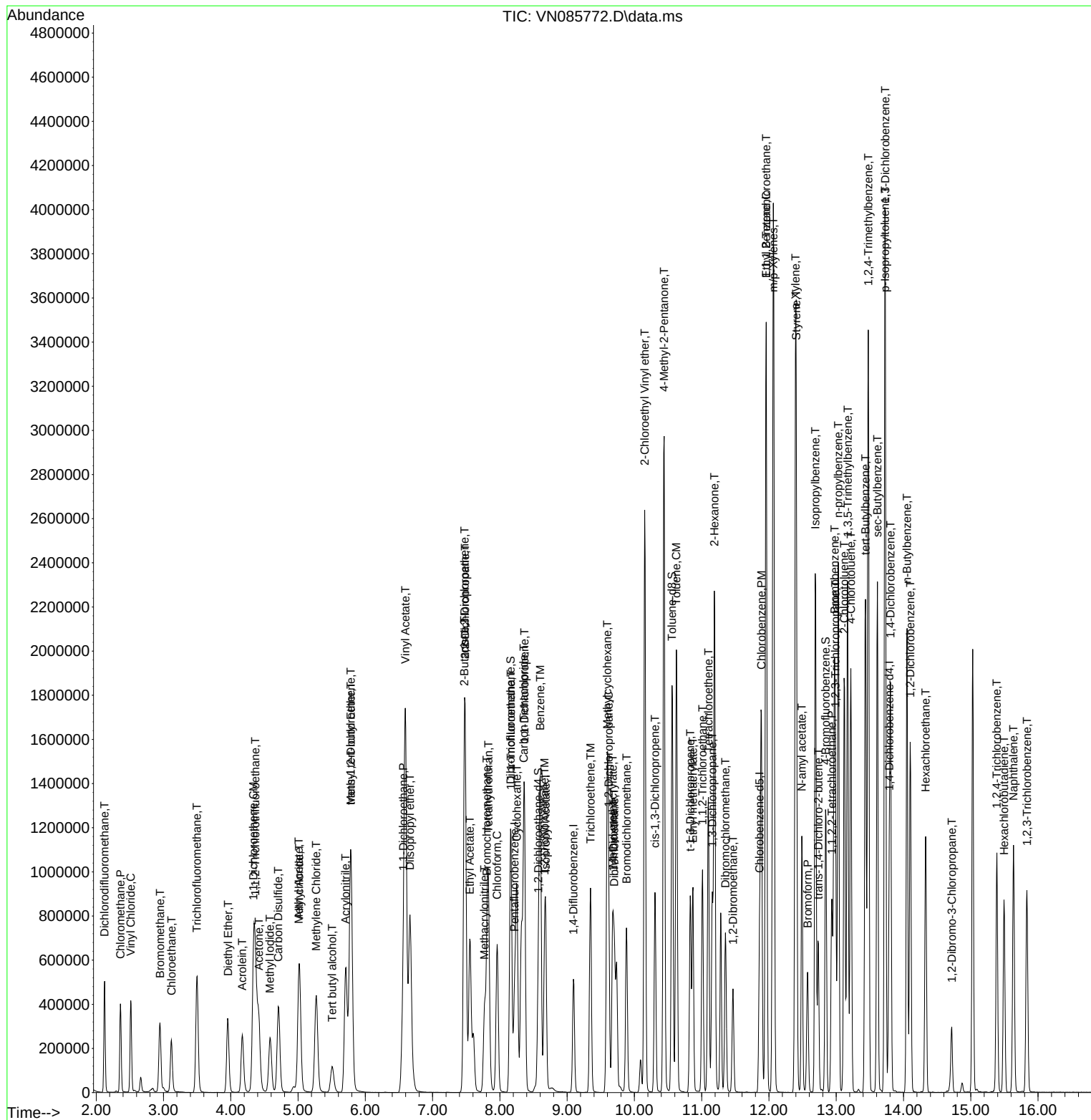
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

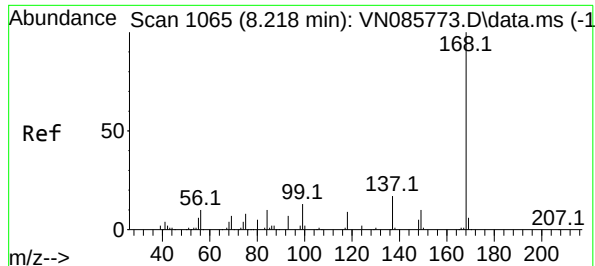
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025





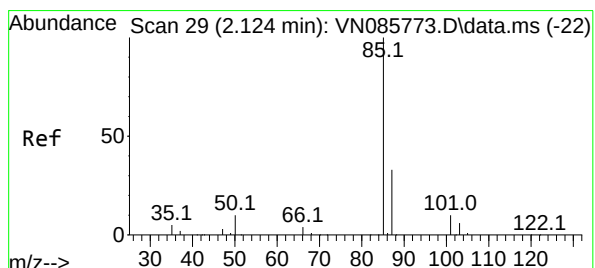
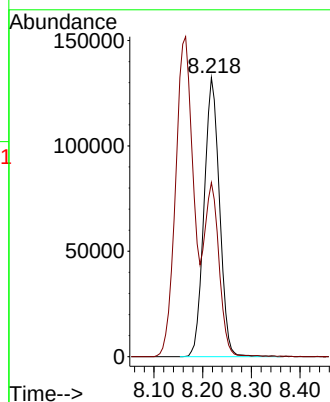
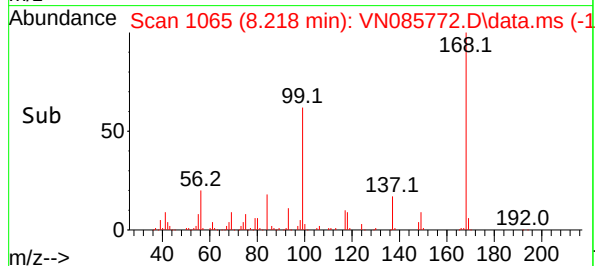
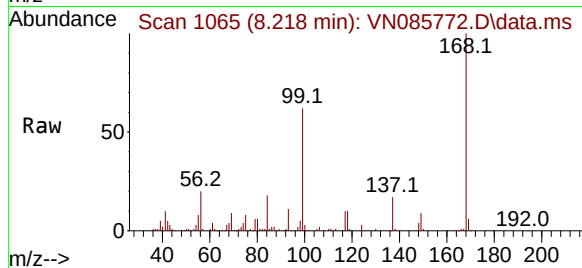
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 290979
Ion Ratio Lower Upper
168 100
99 62.1 47.9 71.9

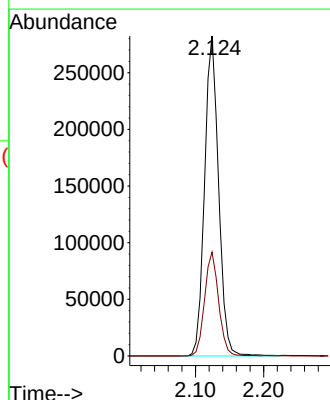
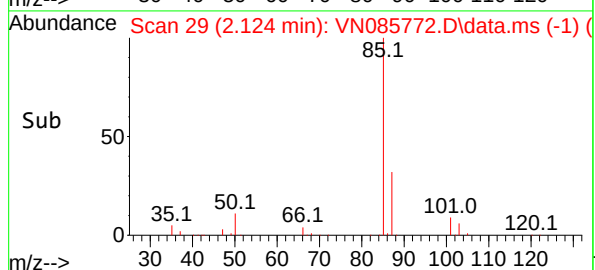
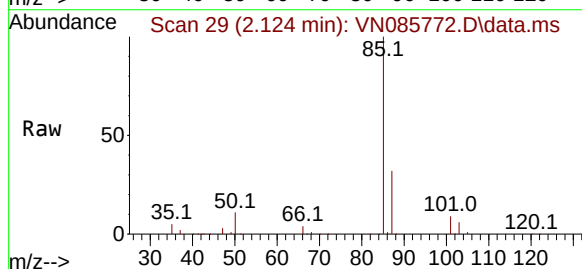
Manual Integrations
APPROVED

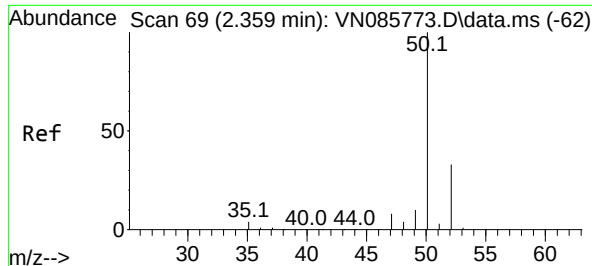
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 101.979 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 85 Resp: 403621
Ion Ratio Lower Upper
85 100
87 32.5 16.4 49.2





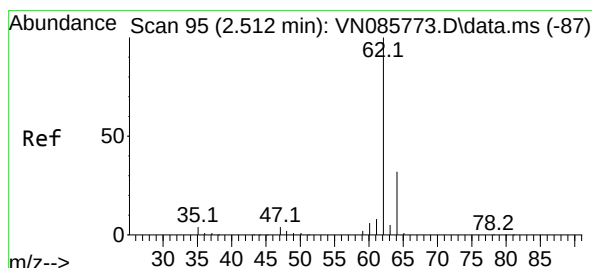
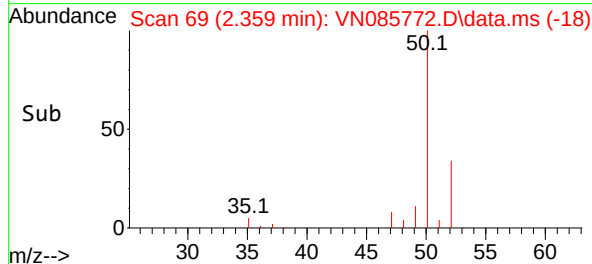
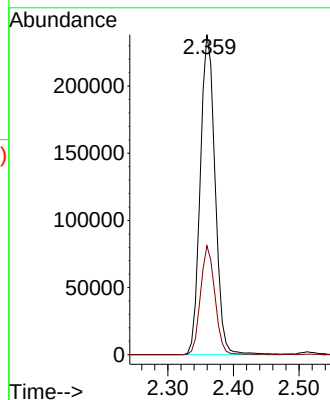
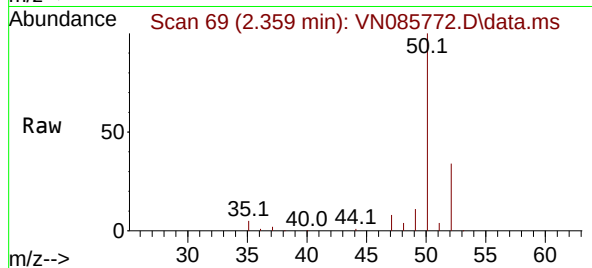
#3
Chloromethane
Concen: 94.759 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 37634
Ion Ratio Lower Upper
50 100
52 34.0 26.7 40.1

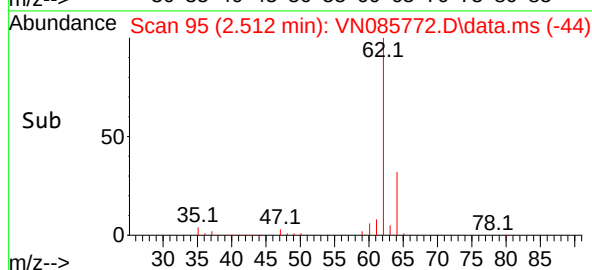
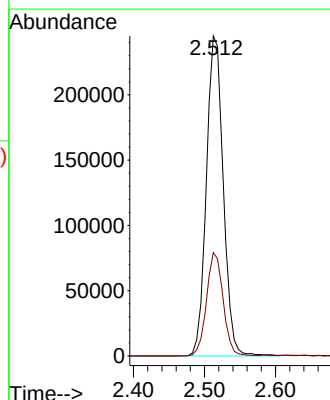
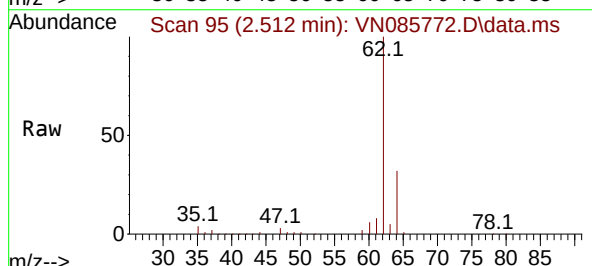
Manual Integrations
APPROVED

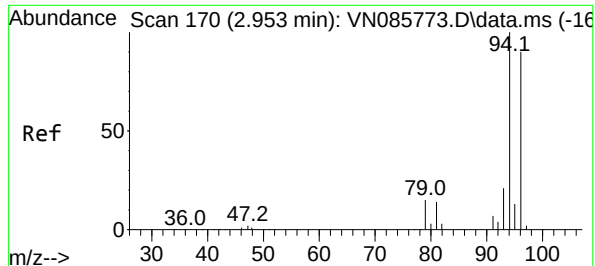
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#4
Vinyl Chloride
Concen: 96.652 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 62 Resp: 406434
Ion Ratio Lower Upper
62 100
64 32.3 25.9 38.9





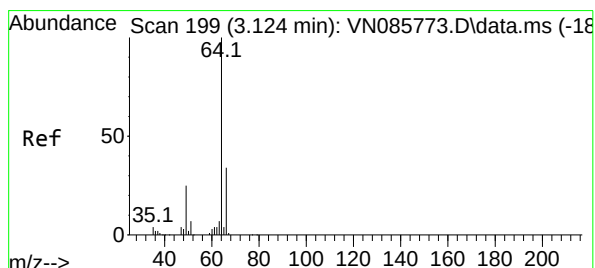
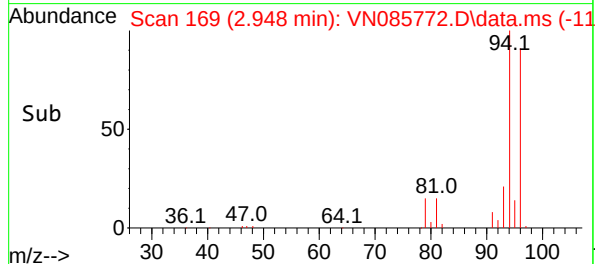
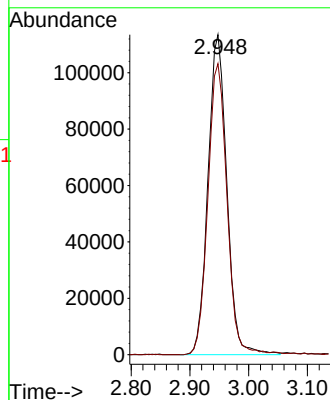
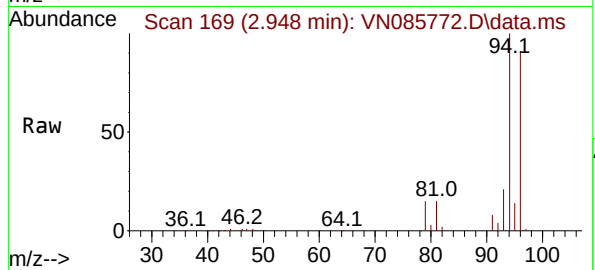
#5
Bromomethane
Concen: 93.935 ug/l
RT: 2.948 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 252570
Ion Ratio Lower Upper
94 100
96 91.0 71.7 107.5

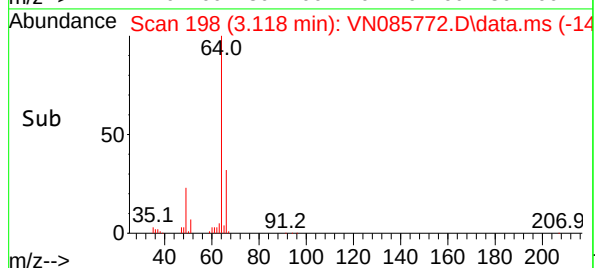
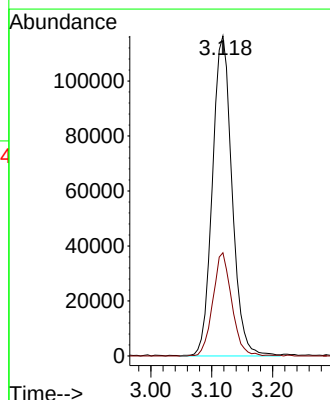
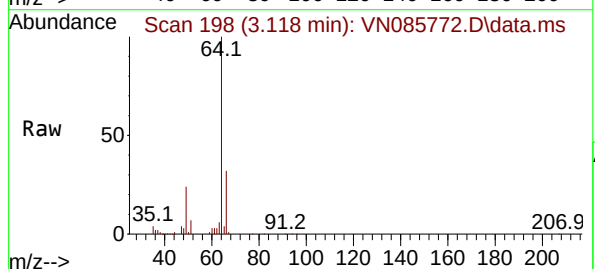
Manual Integrations
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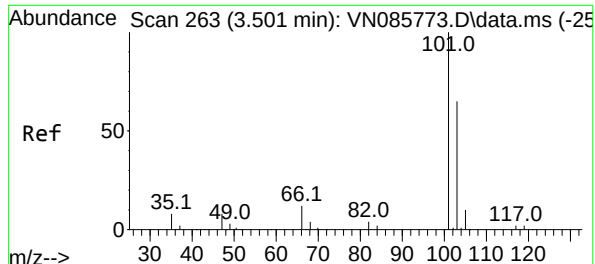
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#6
Chloroethane
Concen: 93.490 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 64 Resp: 260404
Ion Ratio Lower Upper
64 100
66 32.2 27.0 40.6





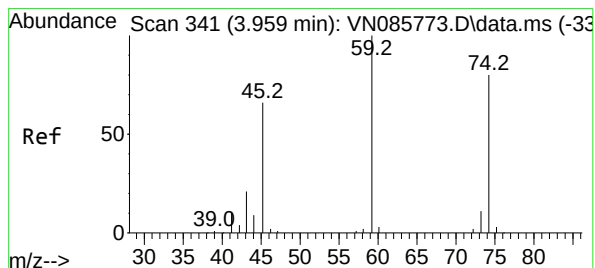
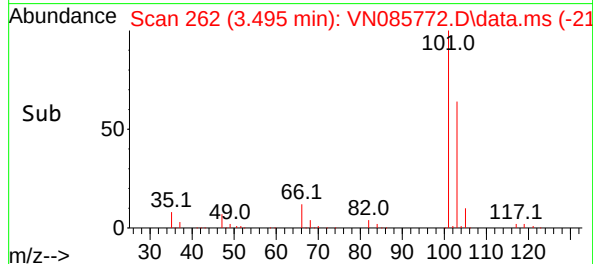
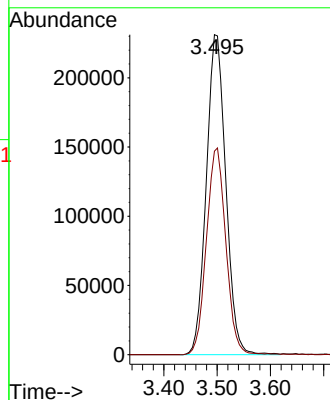
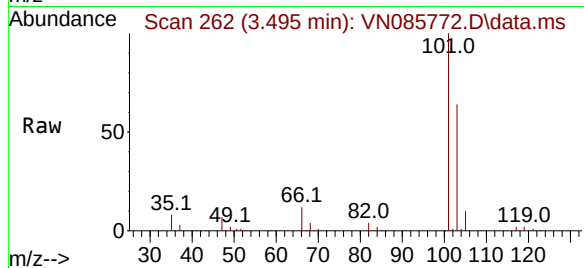
#7
Trichlorofluoromethane
Concen: 96.574 ug/l
RT: 3.495 min Scan# 263
Delta R.T. -0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 587970
Ion Ratio Lower Upper
101 100
103 63.6 52.2 78.4

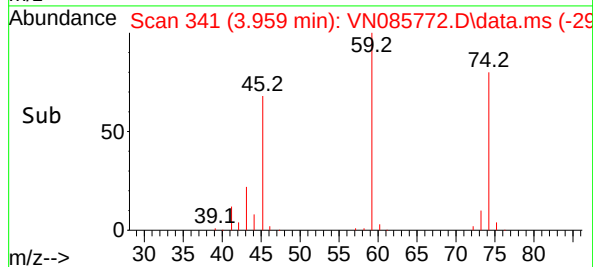
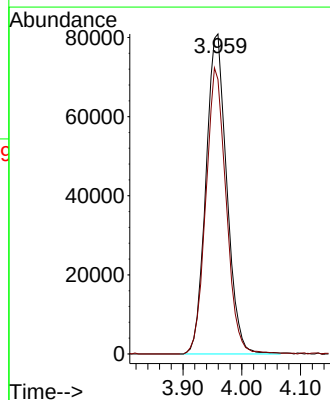
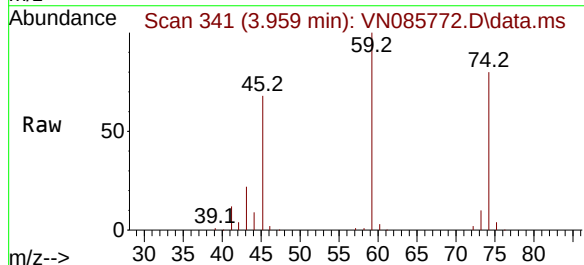
Manual Integrations
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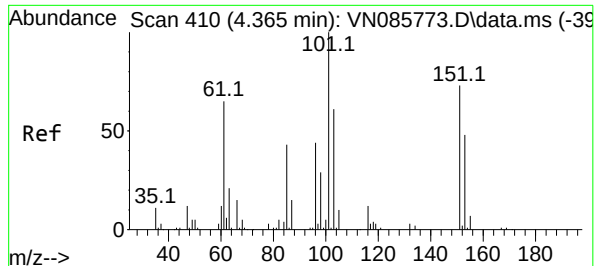
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#8
Diethyl Ether
Concen: 101.225 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 74 Resp: 199406
Ion Ratio Lower Upper
74 100
45 87.3 42.5 127.6





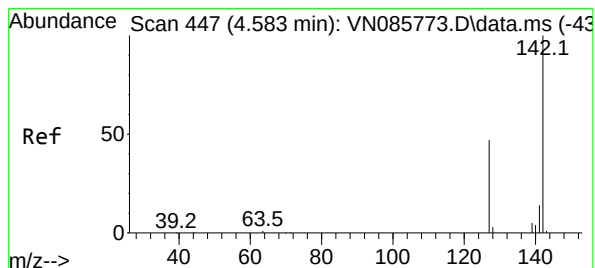
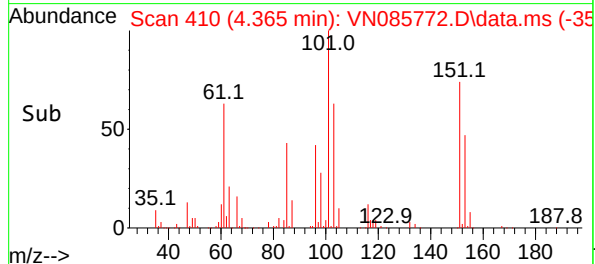
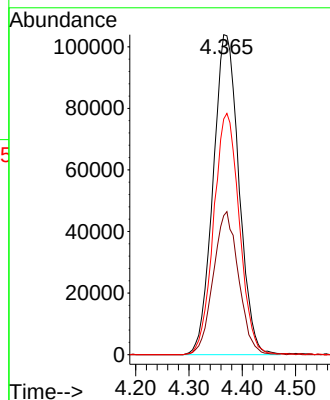
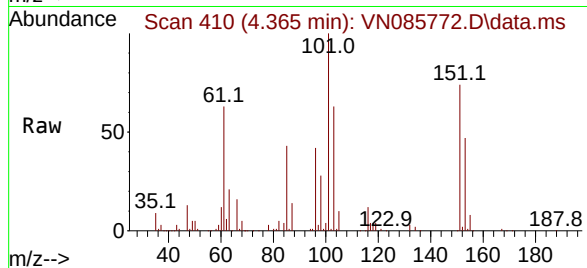
#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.604 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 350530
Ion Ratio Lower Upper
101 100
85 43.7 35.7 53.5
151 75.0 61.4 92.2

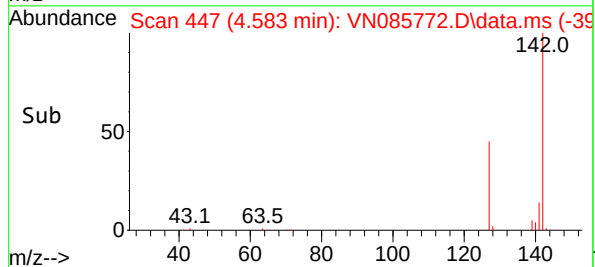
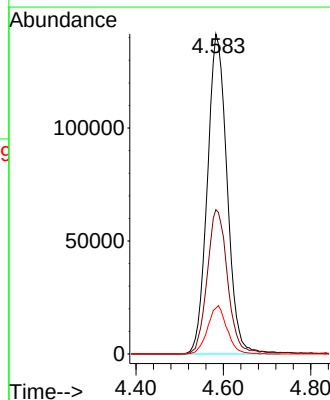
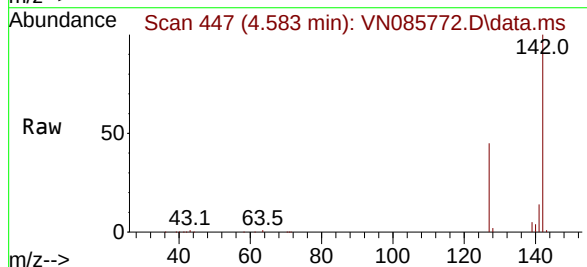
Manual Integrations
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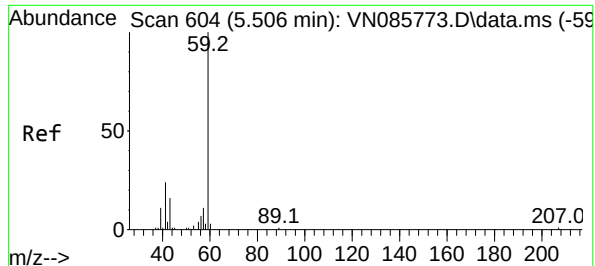
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#10
Methyl Iodide
Concen: 102.472 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion:142 Resp: 444531
Ion Ratio Lower Upper
142 100
127 45.1 37.6 56.4
141 14.3 11.4 17.2





#11

Tert butyl alcohol

Concen: 453.930 ug/l

RT: 5.506 min Scan# 604

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 210610

Ion Ratio Lower Upper

59 100

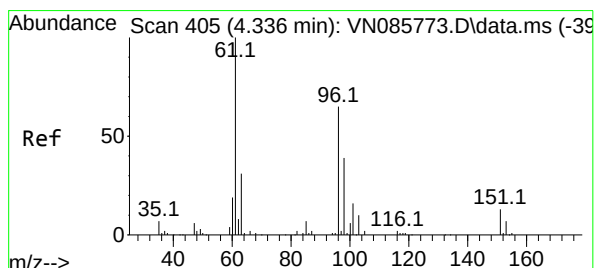
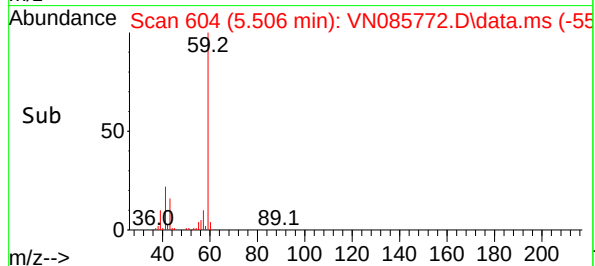
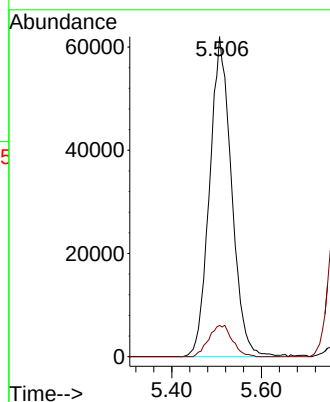
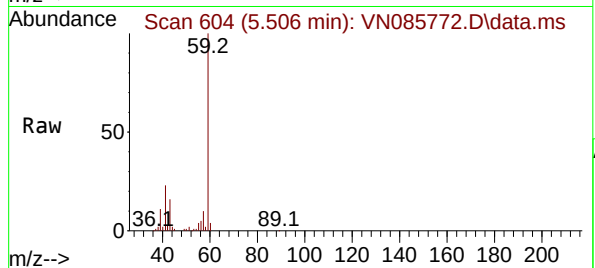
57 10.5 8.3 12.5

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#12

1,1-Dichloroethene

Concen: 101.234 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

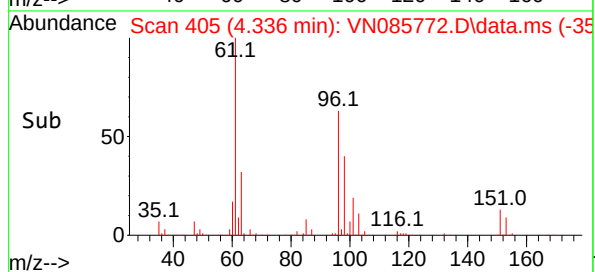
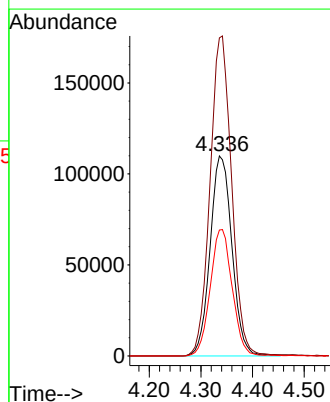
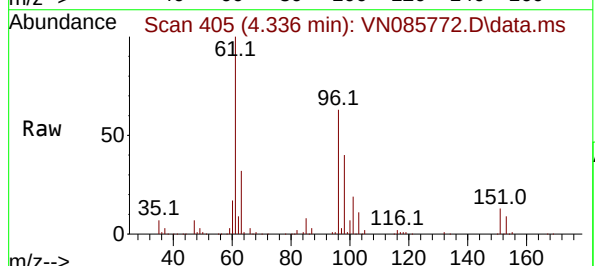
Tgt Ion: 96 Resp: 323037

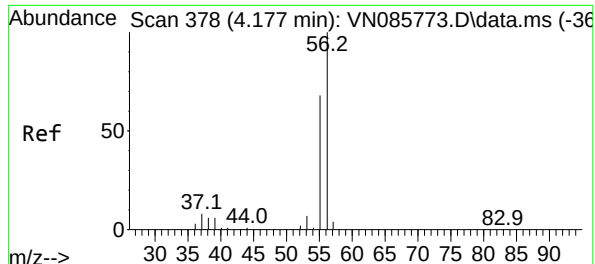
Ion Ratio Lower Upper

96 100

61 159.1 123.3 184.9

98 63.0 48.6 72.8





#13

Acrolein

Concen: 489.916 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 33709

Ion Ratio Lower Upper

56 100

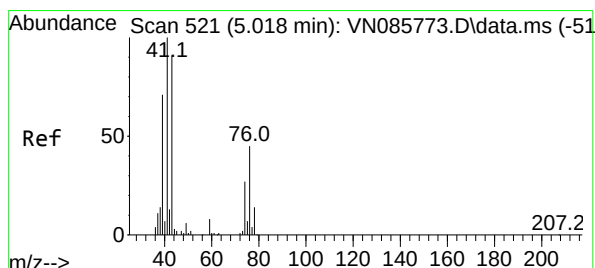
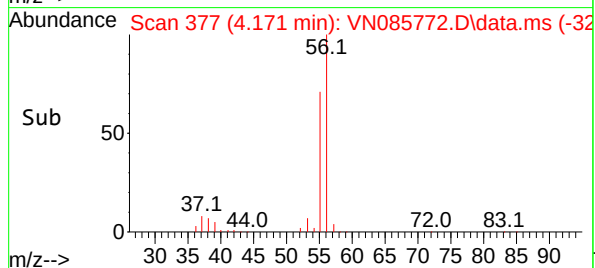
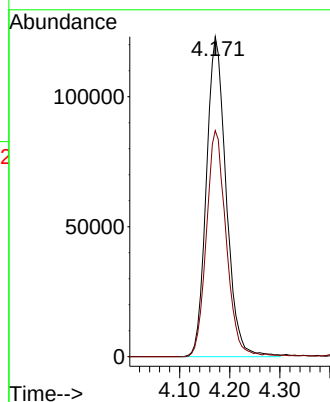
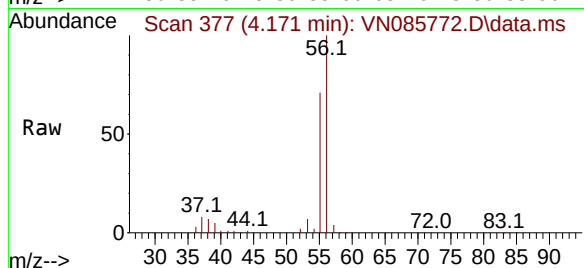
55 70.5 55.3 82.9

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 103.773 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

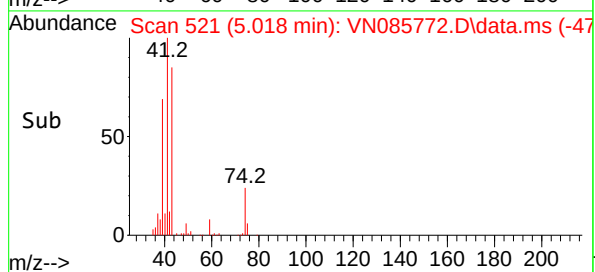
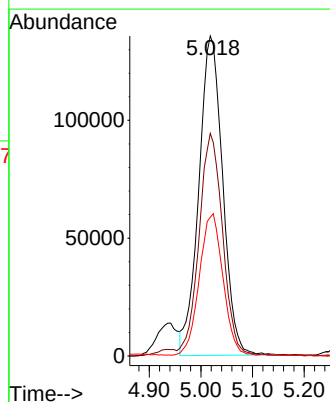
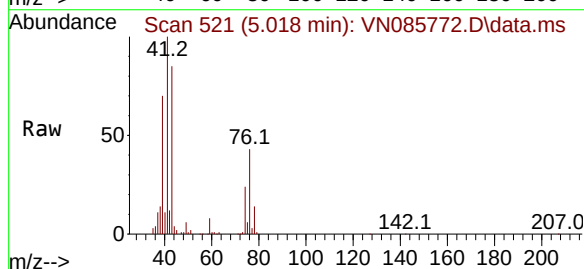
Tgt Ion: 41 Resp: 434760

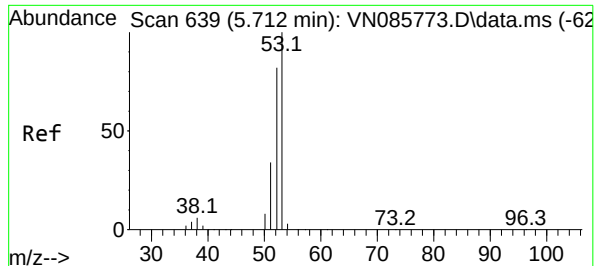
Ion Ratio Lower Upper

41 100

39 68.8 57.4 86.2

76 43.6 36.2 54.2





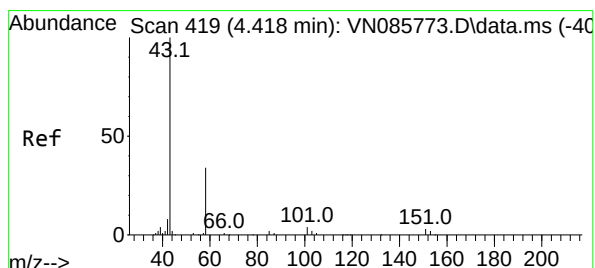
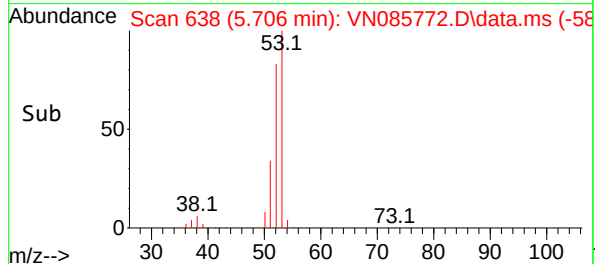
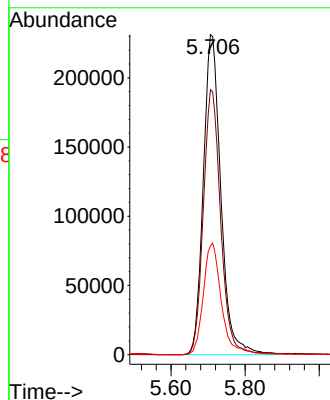
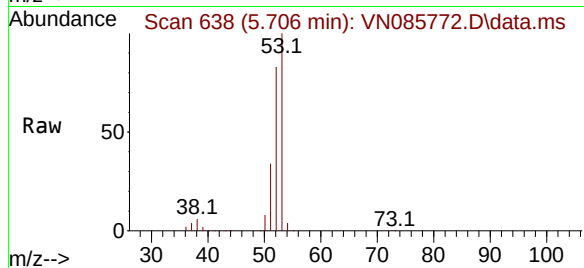
#15
Acrylonitrile
Concen: 504.697 ug/l
RT: 5.706 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 761272
Ion Ratio Lower Upper
53 100
52 81.8 65.8 98.6
51 36.1 28.6 42.8

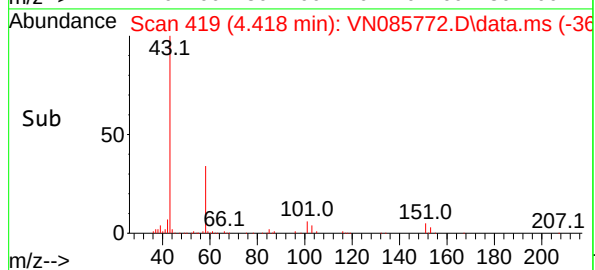
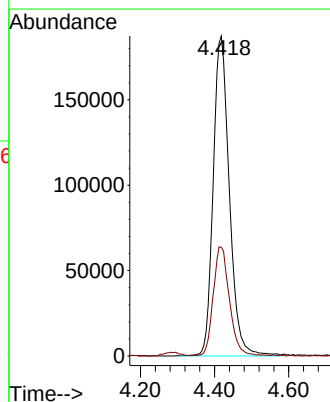
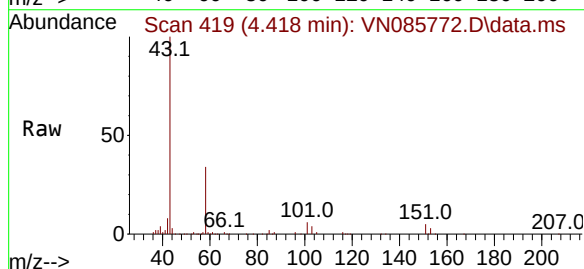
Manual Integrations
APPROVED

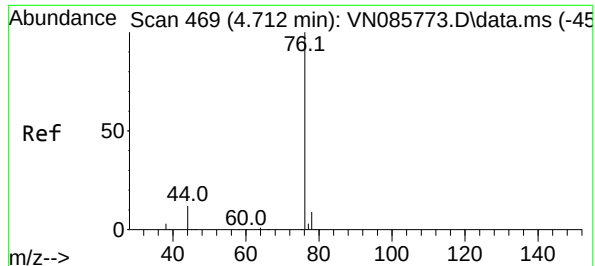
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#16
Acetone
Concen: 475.190 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 43 Resp: 567220
Ion Ratio Lower Upper
43 100
58 33.7 27.5 41.3





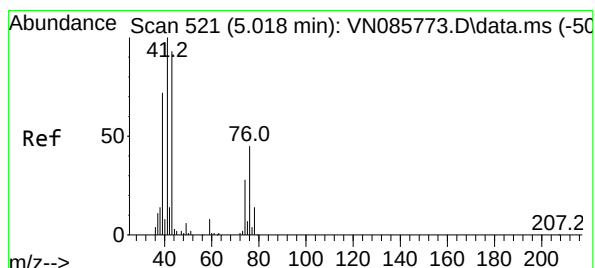
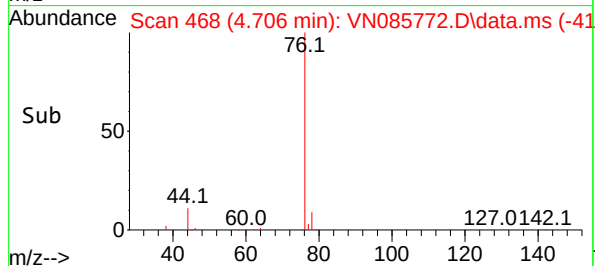
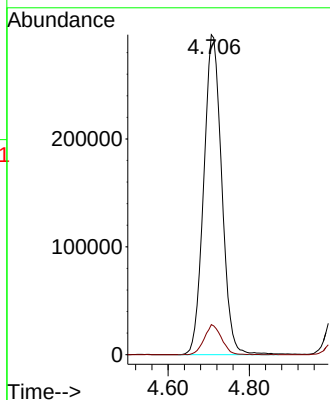
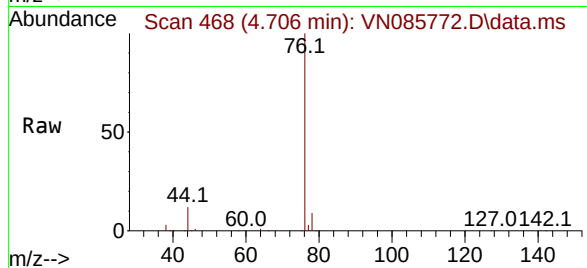
#17
Carbon Disulfide
Concen: 96.328 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 91098
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0

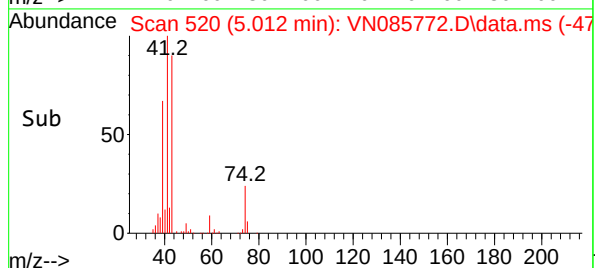
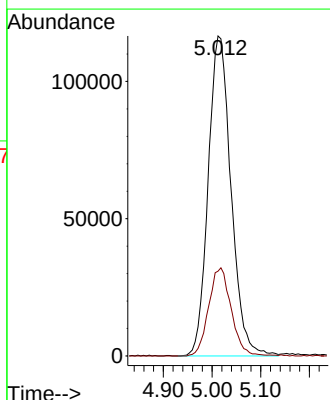
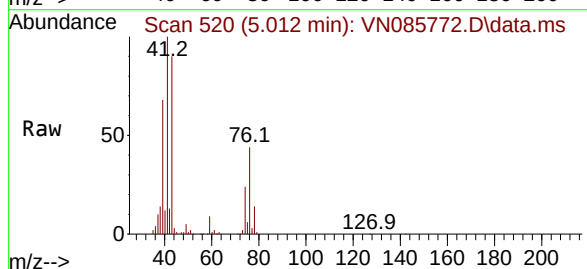
Manual Integrations
APPROVED

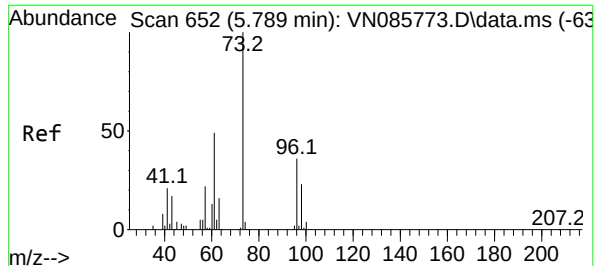
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#18
Methyl Acetate
Concen: 92.531 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 43 Resp: 379901
Ion Ratio Lower Upper
43 100
74 27.2 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 107.229 ug/l

RT: 5.783 min Scan# 652

Delta R.T. -0.006 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 101676

Ion Ratio Lower Upper

73 100

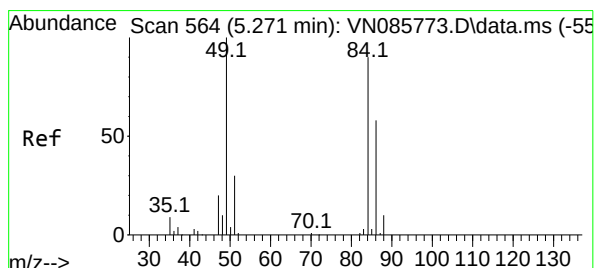
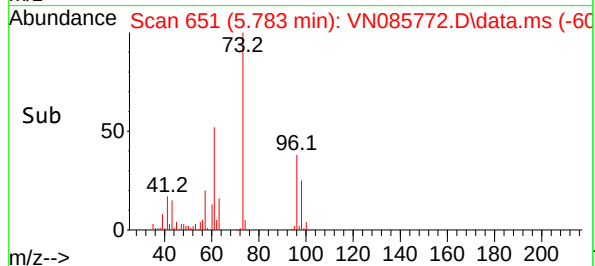
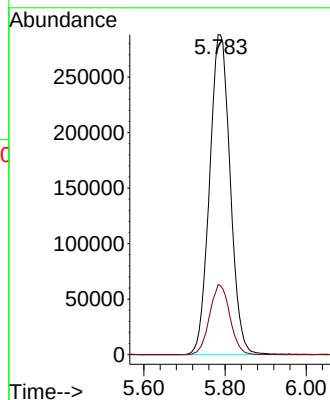
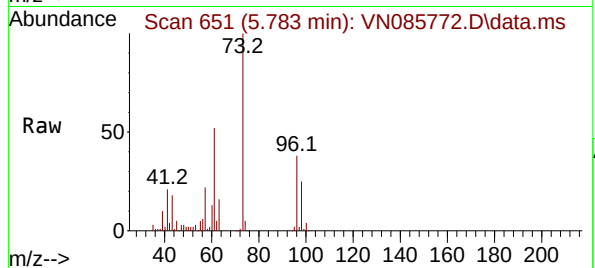
57 21.9 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#20

Methylene Chloride

Concen: 95.142 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Tgt Ion: 84 Resp: 365222

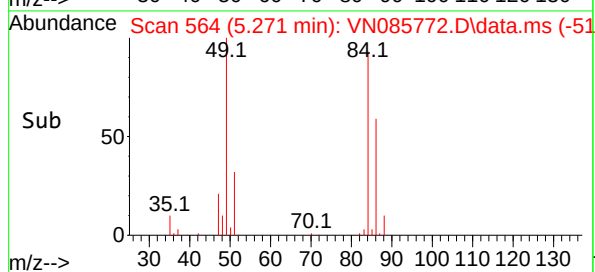
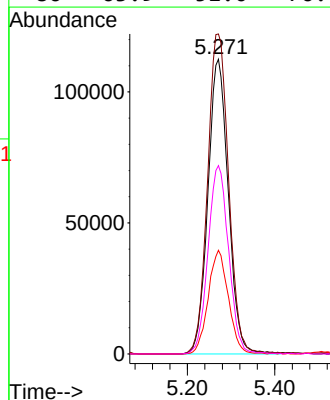
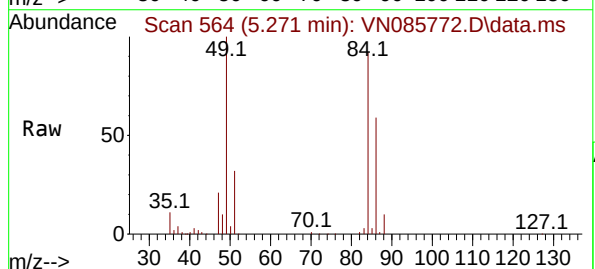
Ion Ratio Lower Upper

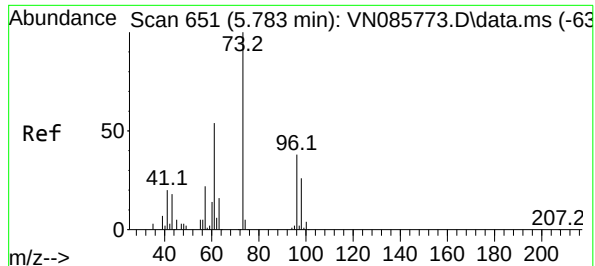
84 100

49 108.6 88.4 132.6

51 35.2 26.6 40.0

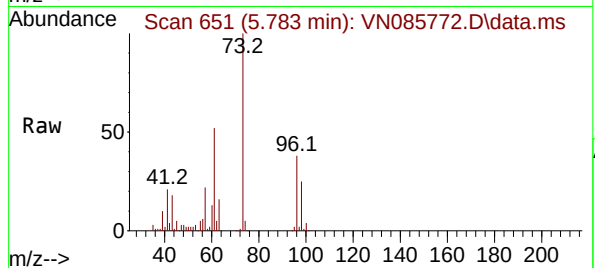
86 63.9 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 99.001 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

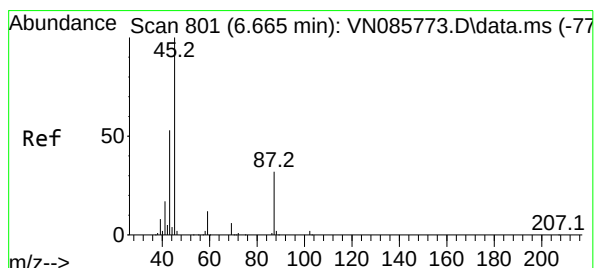
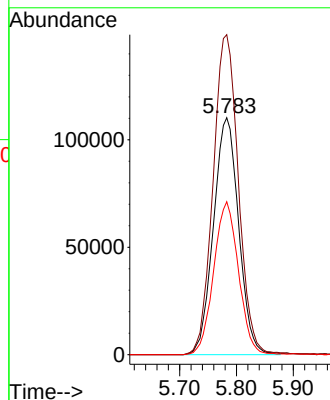
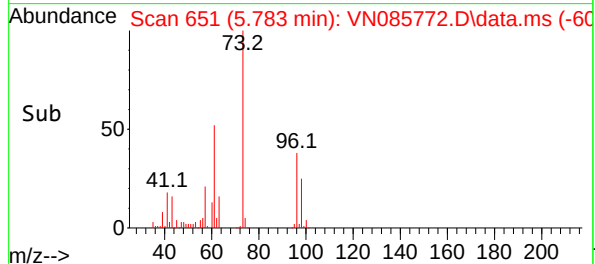
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 34016
Ion Ratio Lower Upper
96 100
61 135.0 112.6 168.8
98 64.5 53.3 79.9

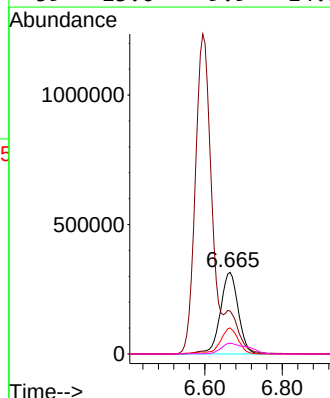
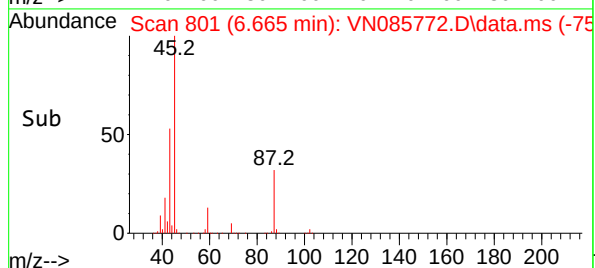
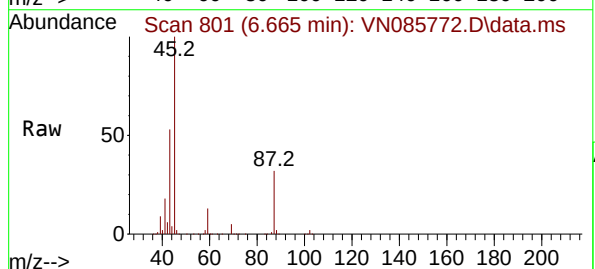
Manual Integrations
APPROVED

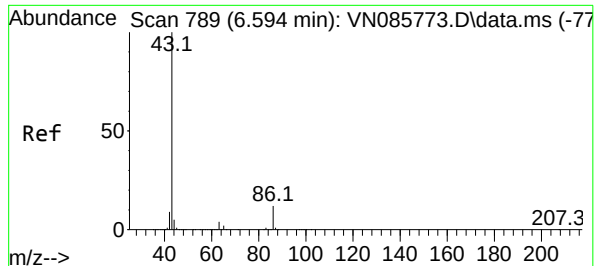
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 107.223 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 45 Resp: 1015041
Ion Ratio Lower Upper
45 100
43 51.9 42.6 64.0
87 31.9 25.8 38.8
59 13.0 9.9 14.9





#23

Vinyl Acetate

Concen: 548.253 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 354278

Ion Ratio Lower Upper

43

100

86

12.2

9.8

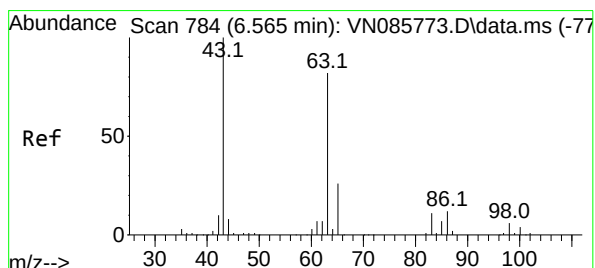
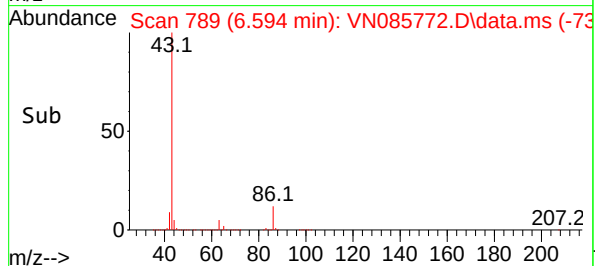
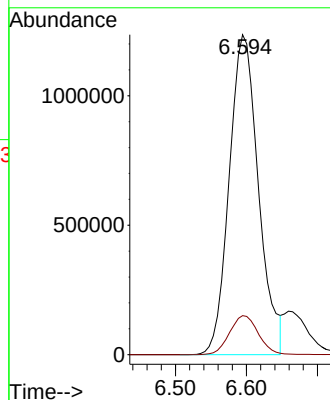
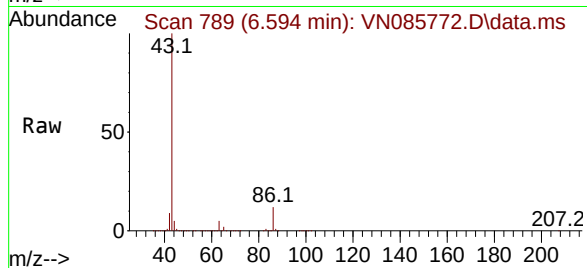
14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#24

1,1-Dichloroethane

Concen: 99.172 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Tgt Ion: 63 Resp: 638203

Ion Ratio Lower Upper

63

100

98

7.4

3.5

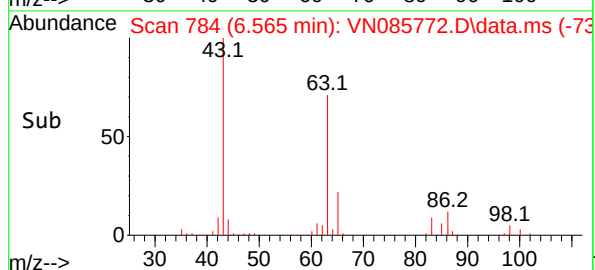
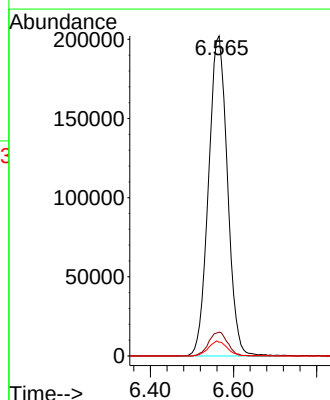
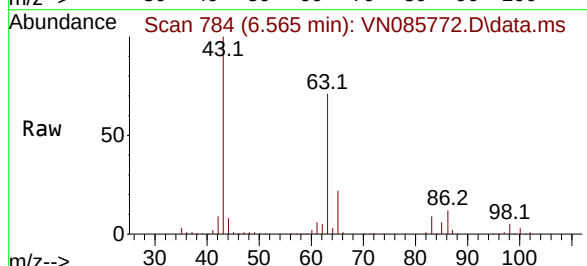
10.4

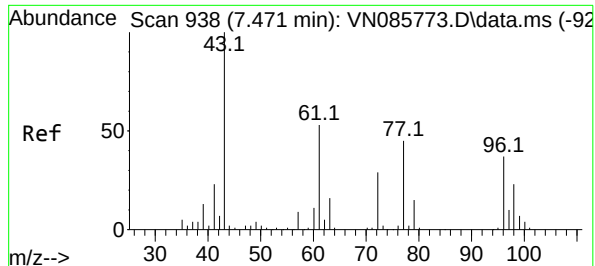
100

4.3

2.4

7.2





#25

2-Butanone

Concen: 510.235 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 89602

Ion Ratio Lower Upper

43 100

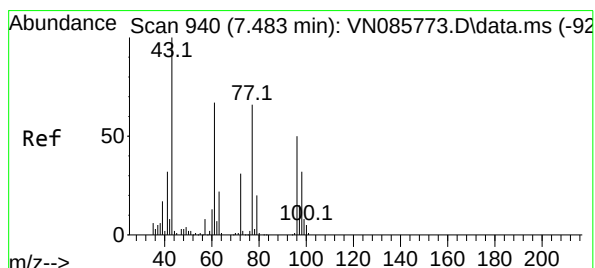
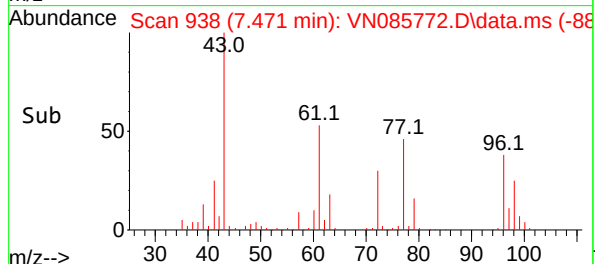
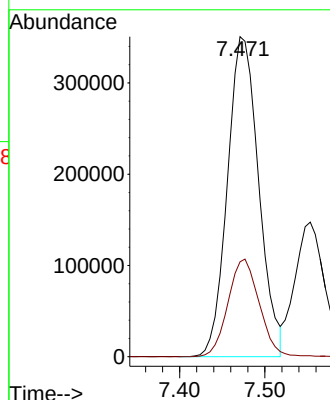
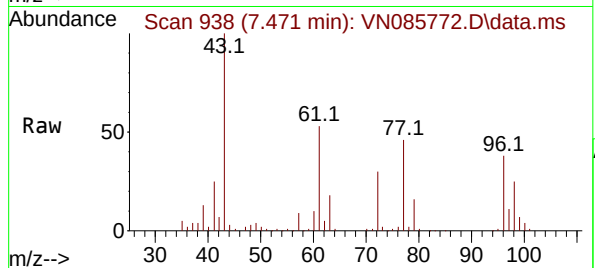
72 29.6 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#26

2,2-Dichloropropane

Concen: 100.033 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085772.D

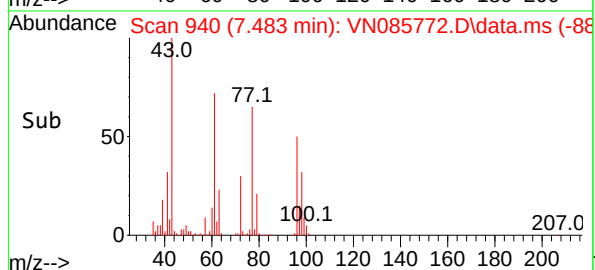
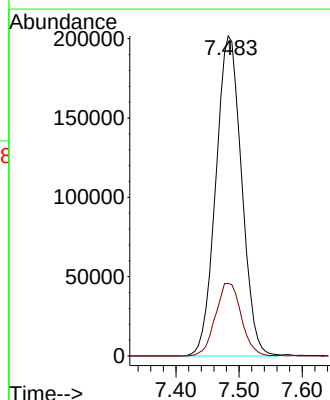
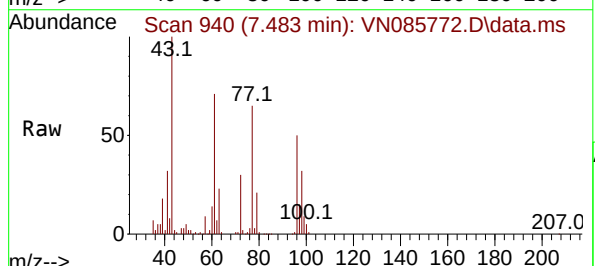
Acq: 18 Feb 2025 11:09

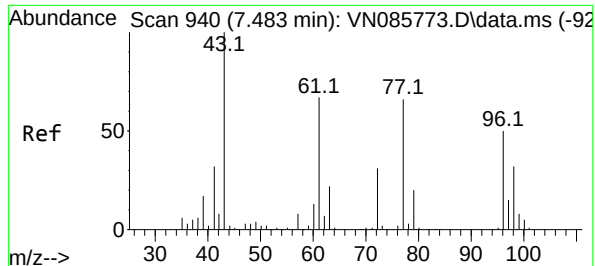
Tgt Ion: 77 Resp: 572429

Ion Ratio Lower Upper

77 100

97 22.7 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 102.929 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 41006

Ion Ratio Lower Upper

96 100

61 141.5 0.0 280.6

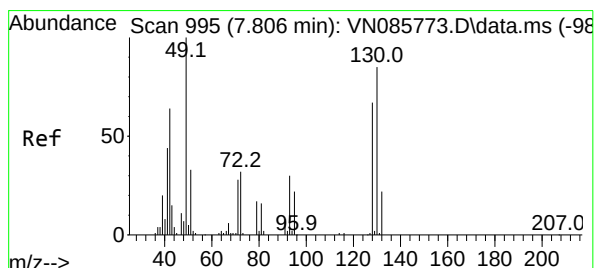
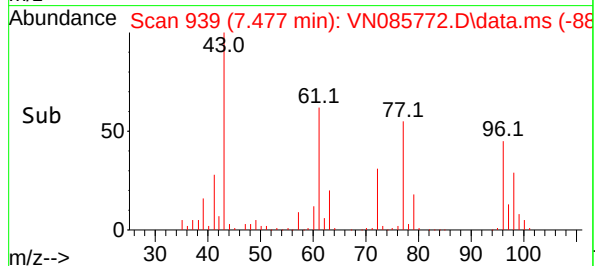
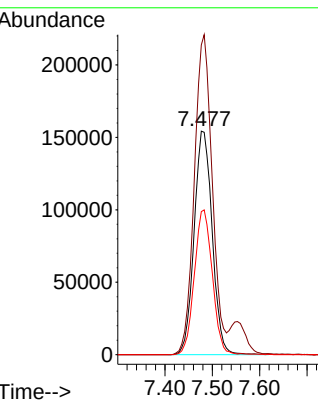
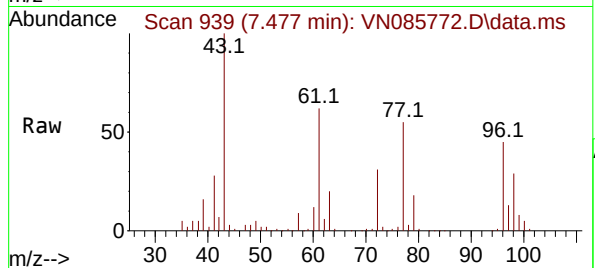
98 64.4 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 105.895 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

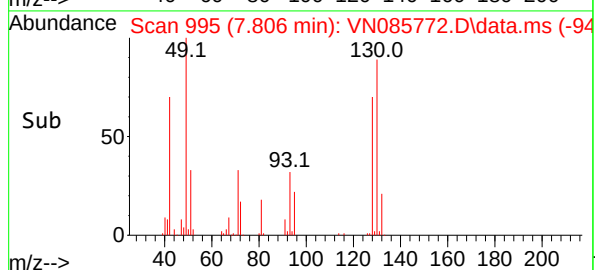
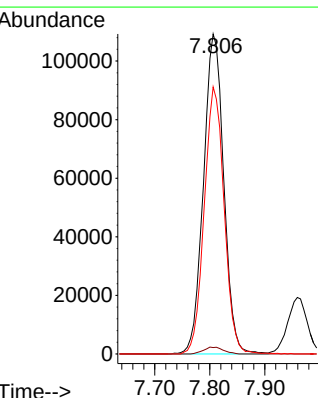
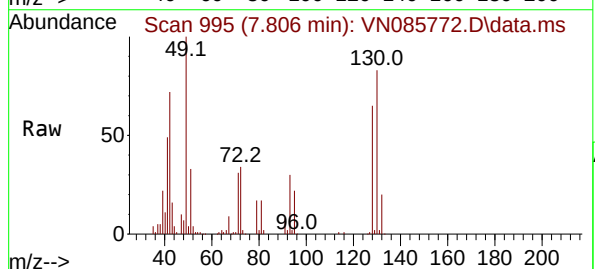
Tgt Ion: 49 Resp: 280092

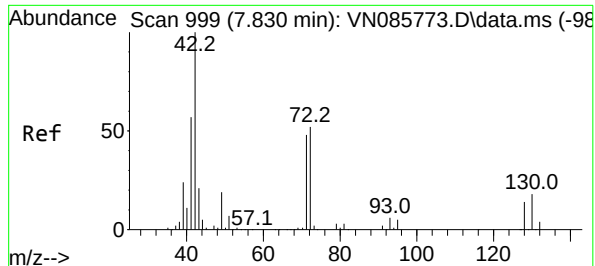
Ion Ratio Lower Upper

49 100

129 2.1 0.0 3.8

130 81.9 68.0 102.0





#29

Tetrahydrofuran

Concen: 528.664 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 599504

Ion Ratio Lower Upper

42 100

72 50.0 40.0 60.0

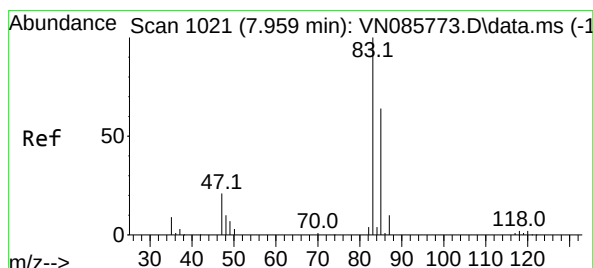
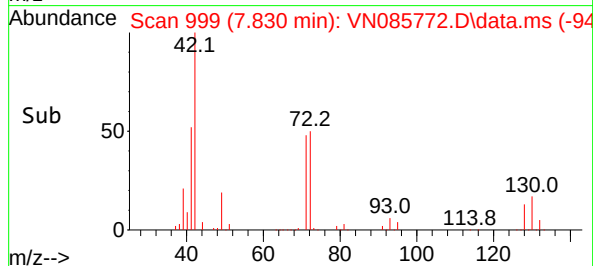
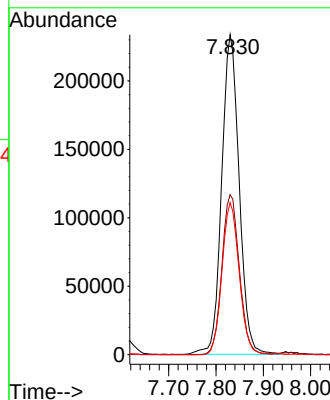
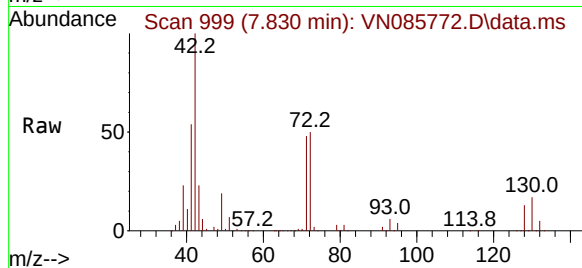
71 46.7 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 96.914 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085772.D

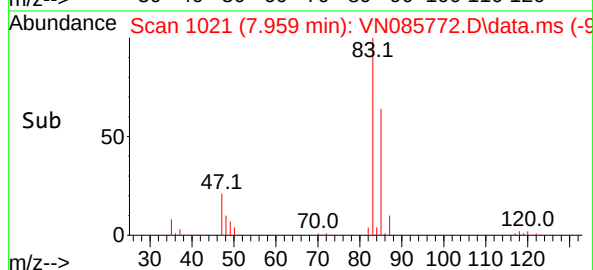
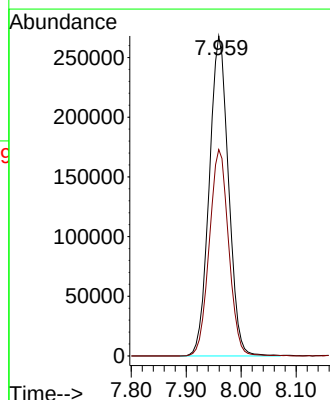
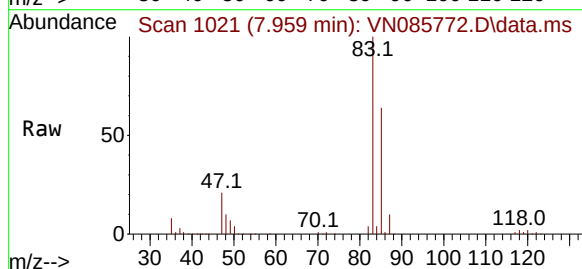
Acq: 18 Feb 2025 11:09

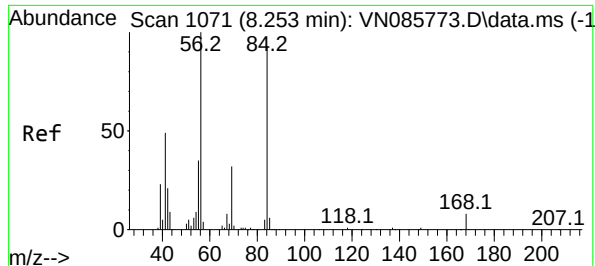
Tgt Ion: 83 Resp: 651761

Ion Ratio Lower Upper

83 100

85 64.5 50.9 76.3





#31

Cyclohexane

Concen: 94.843 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 51103

Ion Ratio Lower Upper

56 100

69 32.8 25.8 38.6

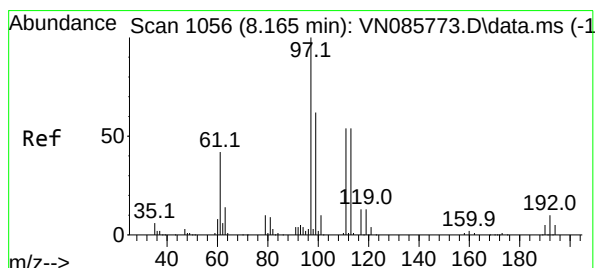
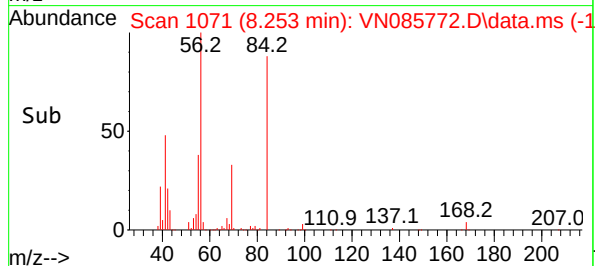
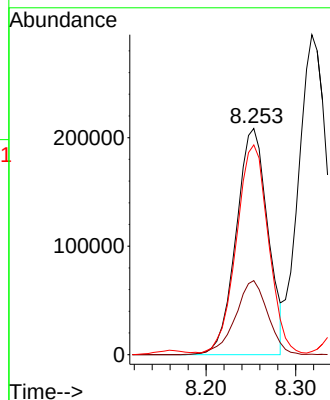
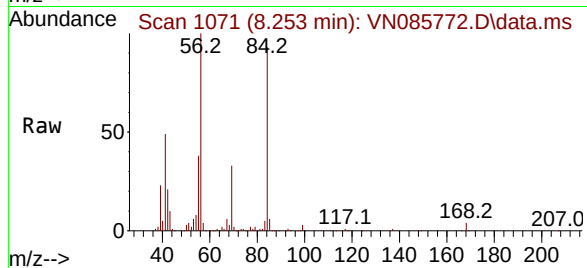
84 91.2 74.5 111.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#32

1,1,1-Trichloroethane

Concen: 98.502 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

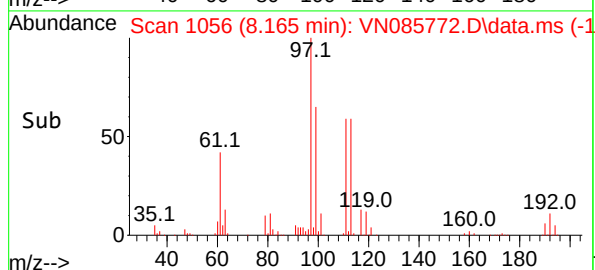
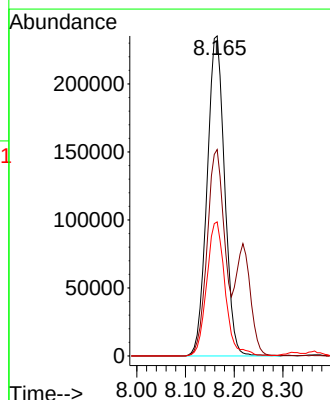
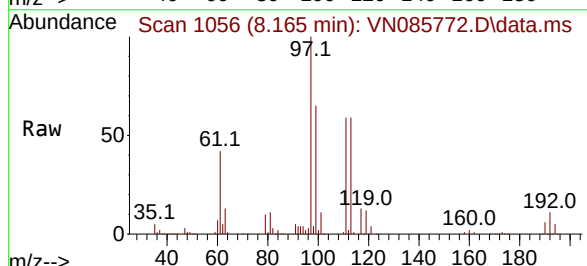
Tgt Ion: 97 Resp: 589206

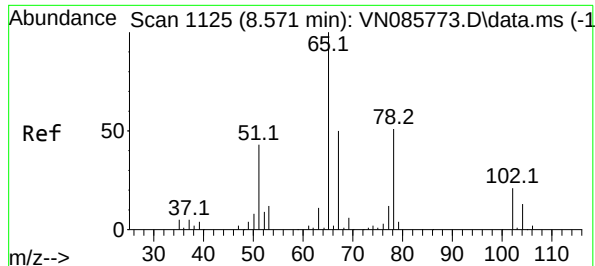
Ion Ratio Lower Upper

97 100

99 64.8 50.4 75.6

61 43.9 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 107.630 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 406028

Ion Ratio Lower Upper

65 100

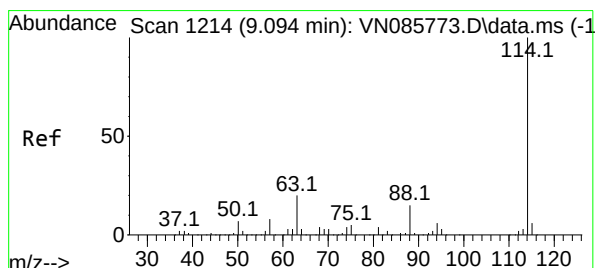
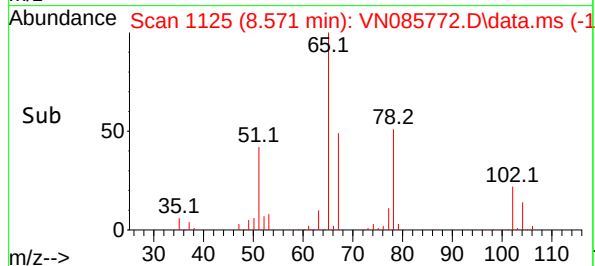
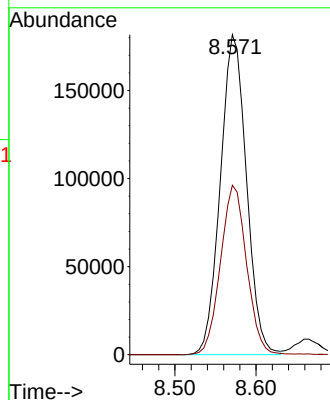
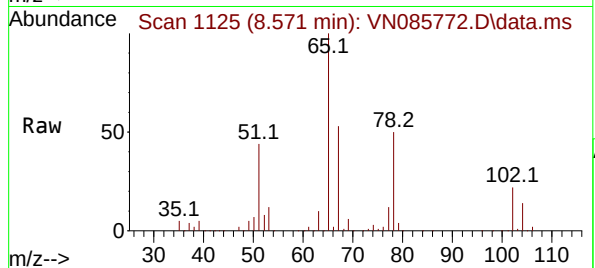
67 53.0 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

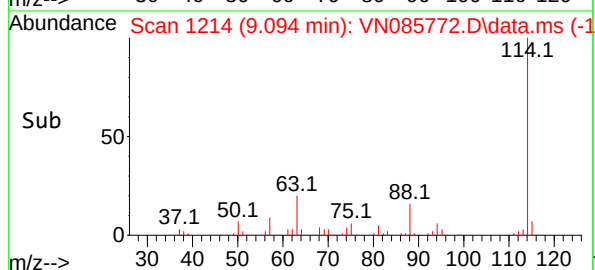
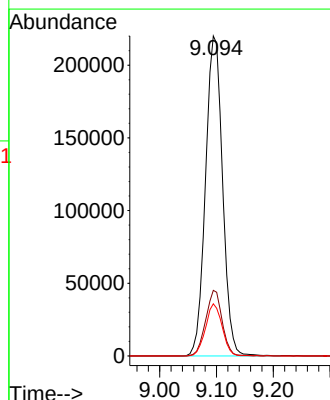
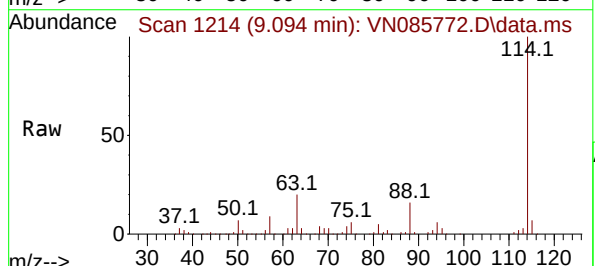
Tgt Ion:114 Resp: 458183

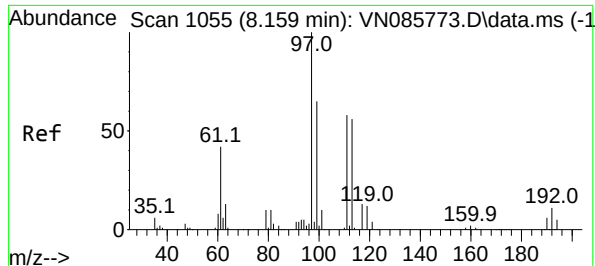
Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.2

88 16.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 114.648 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 343729

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

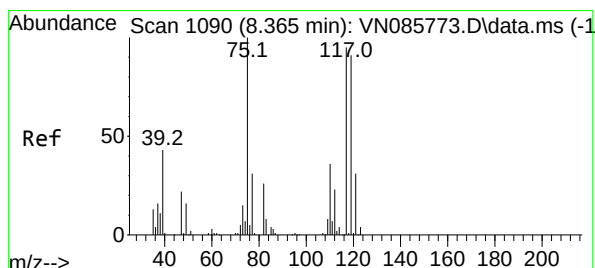
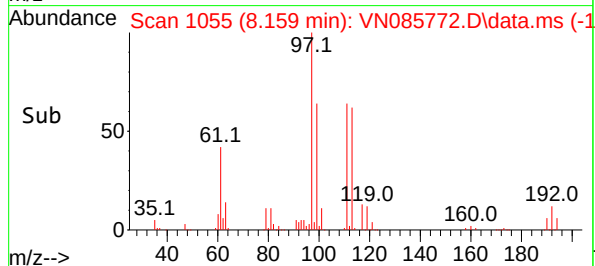
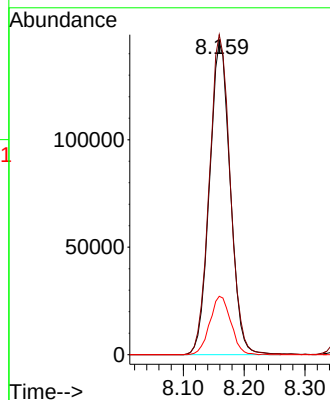
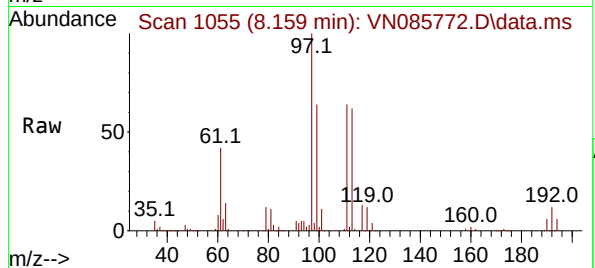
192 18.9 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#36

1,1-Dichloropropene

Concen: 109.949 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

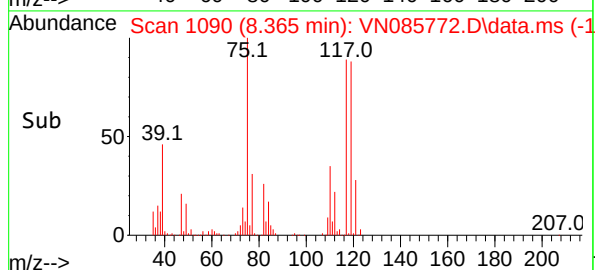
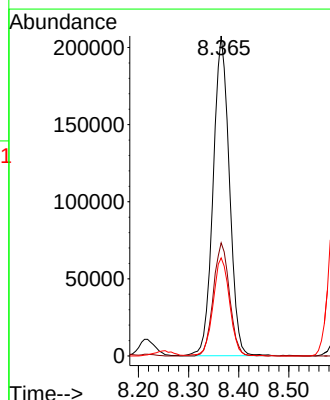
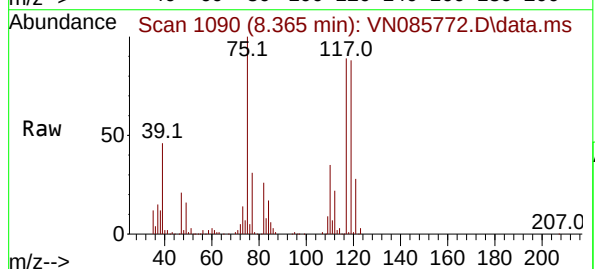
Tgt Ion: 75 Resp: 466531

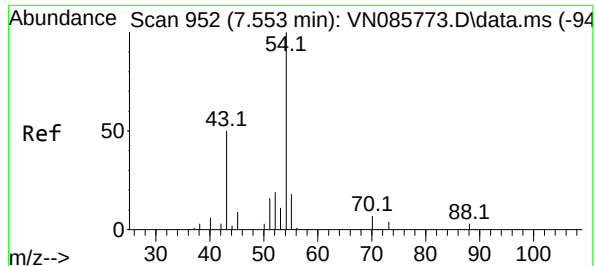
Ion Ratio Lower Upper

75 100

110 35.3 17.3 52.0

77 31.1 24.6 37.0





#37

Ethyl Acetate

Concen: 105.069 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 36688

Ion Ratio Lower Upper

43 100

61 14.7 12.2 18.2

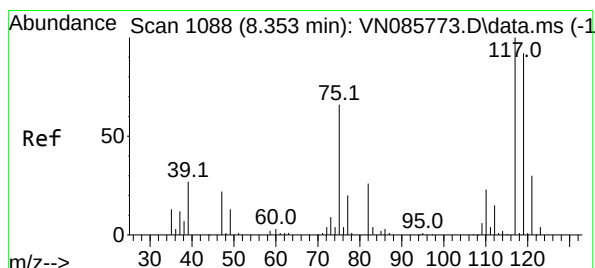
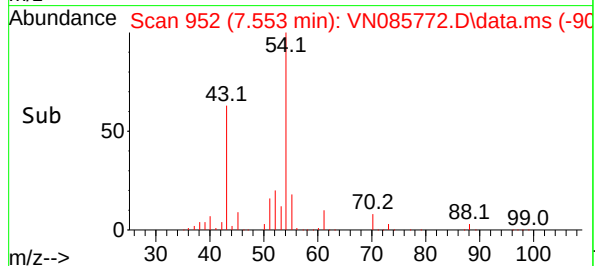
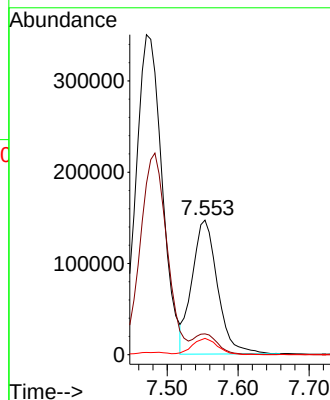
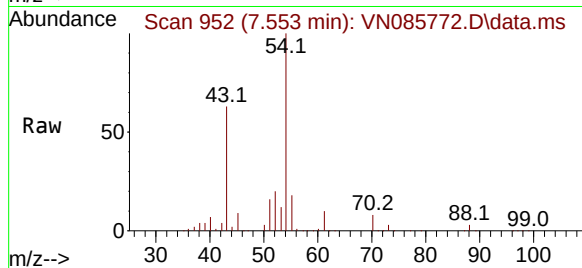
70 11.9 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#38

Carbon Tetrachloride

Concen: 104.105 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

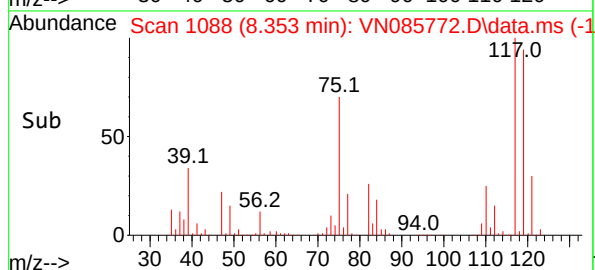
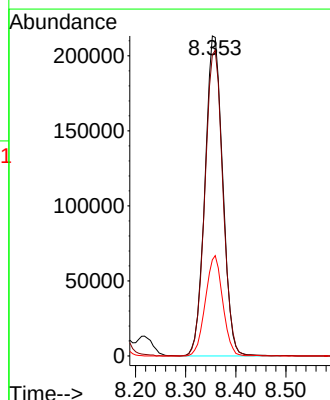
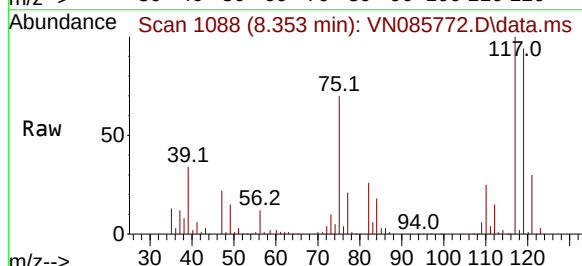
Tgt Ion:117 Resp: 524870

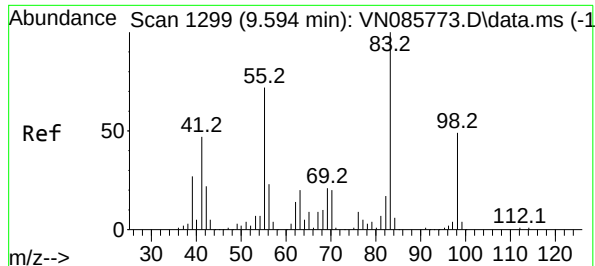
Ion Ratio Lower Upper

117 100

119 94.1 73.8 110.6

121 30.0 24.3 36.5





#39

Methylcyclohexane

Concen: 123.184 ug/l

RT: 9.594 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 513492

Ion Ratio Lower Upper

83 100

55 71.5 57.5 86.3

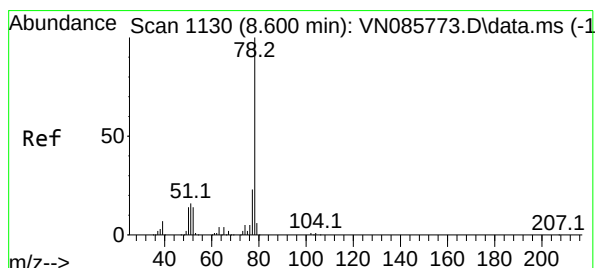
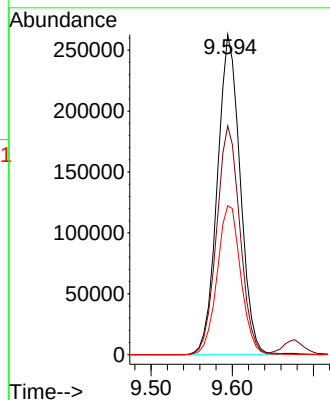
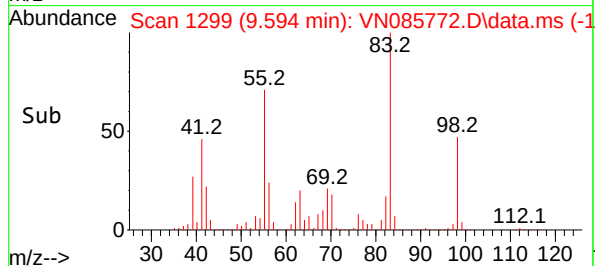
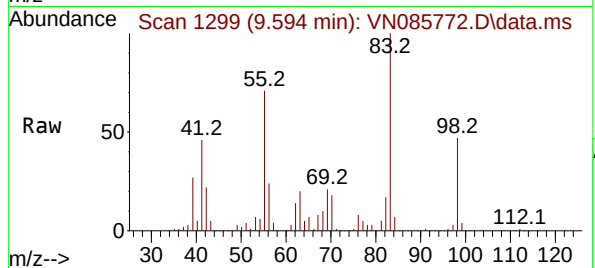
98 46.5 39.2 58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#40

Benzene

Concen: 106.522 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085772.D

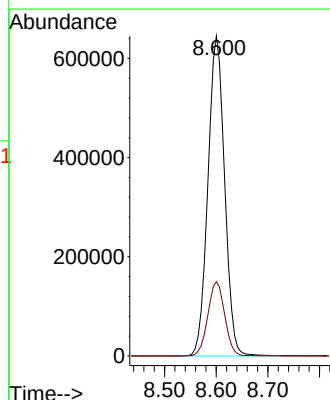
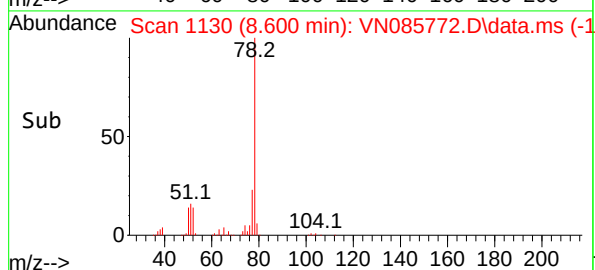
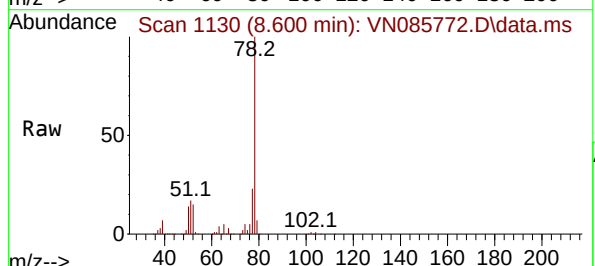
Acq: 18 Feb 2025 11:09

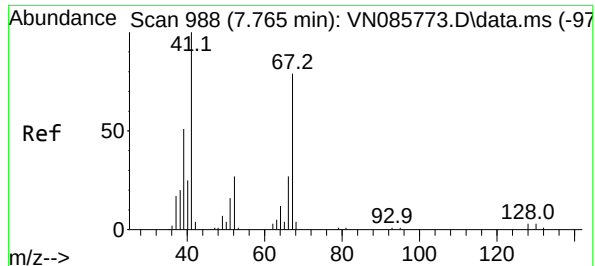
Tgt Ion: 78 Resp: 1448660

Ion Ratio Lower Upper

78 100

77 23.2 18.3 27.5





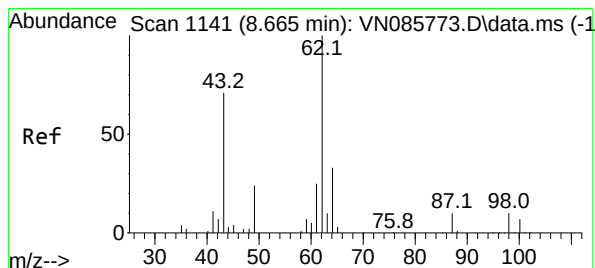
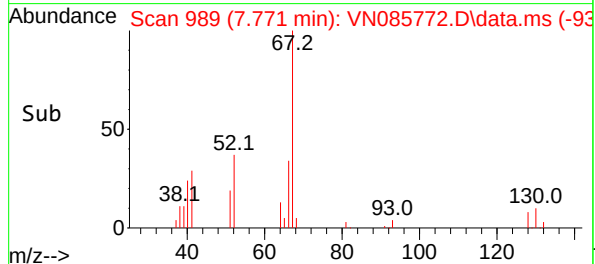
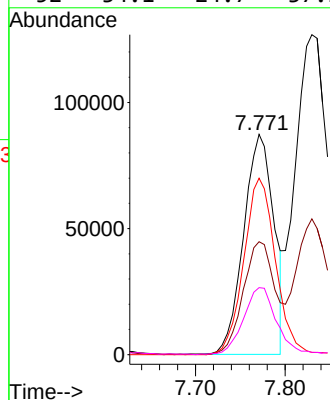
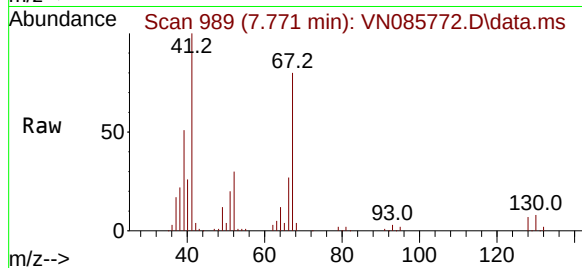
#41
Methacrylonitrile
Concen: 109.119 ug/l
RT: 7.771 min Scan# 989
Delta R.T. 0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 203689
Ion Ratio Lower Upper
41 100
39 55.9 42.0 63.0
67 85.0 64.2 96.4
52 34.1 24.7 37.1

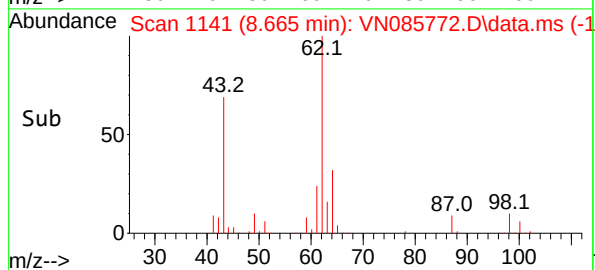
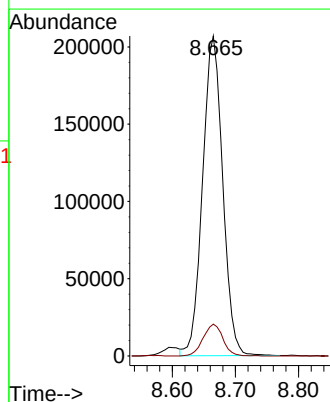
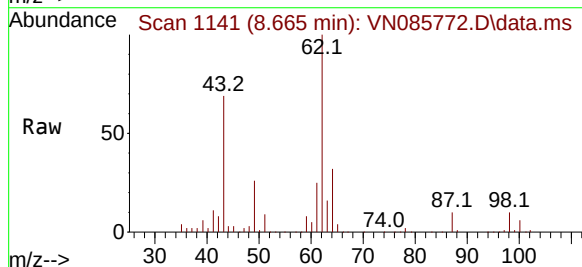
Manual Integrations
APPROVED

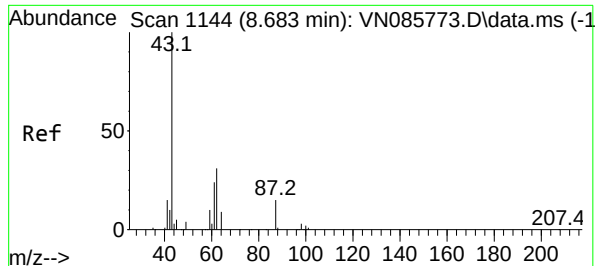
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#42
1,2-Dichloroethane
Concen: 103.326 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 62 Resp: 457707
Ion Ratio Lower Upper
62 100
98 9.8 0.0 19.6





#43

Isopropyl Acetate

Concen: 101.163 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 61652

Ion Ratio Lower Upper

43 100

61 30.1 22.6 34.0

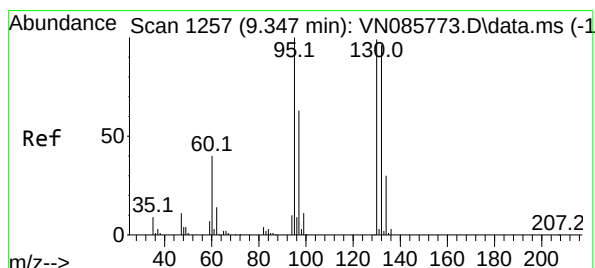
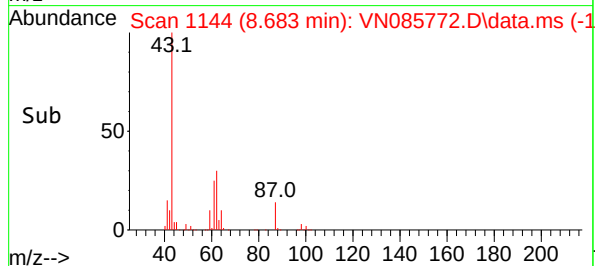
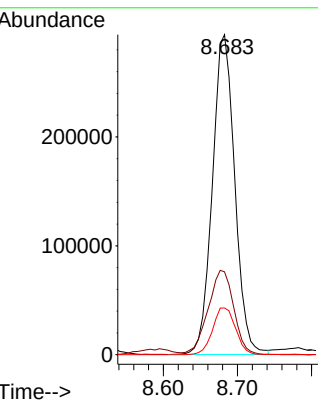
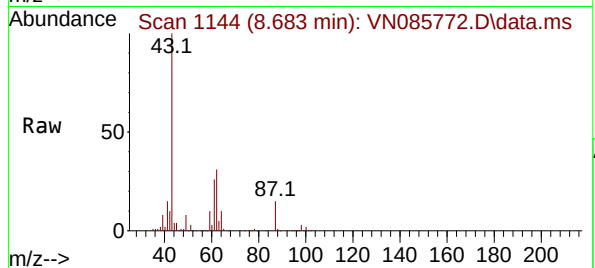
87 15.0 11.8 17.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#44

Trichloroethene

Concen: 101.529 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085772.D

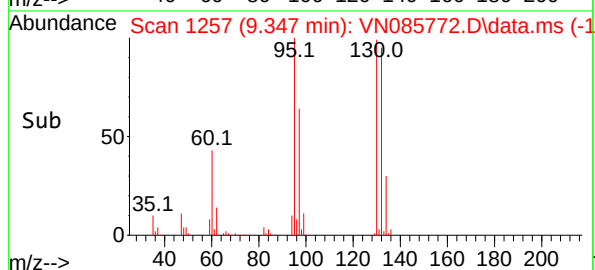
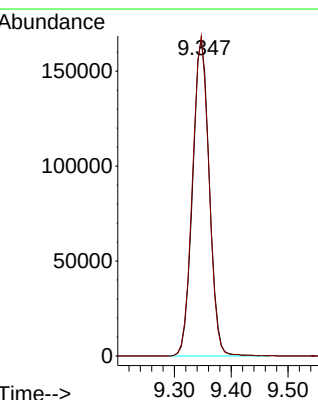
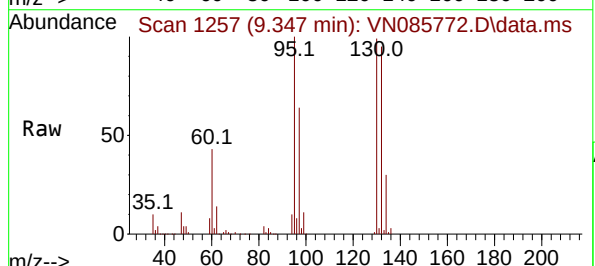
Acq: 18 Feb 2025 11:09

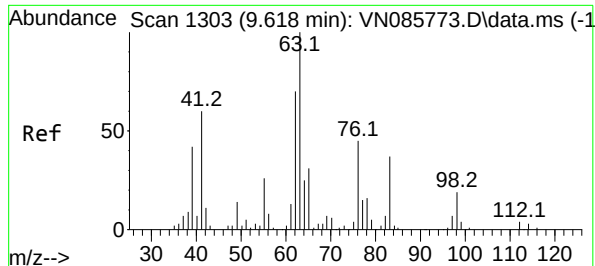
Tgt Ion:130 Resp: 339019

Ion Ratio Lower Upper

130 100

95 101.4 0.0 202.6





#45

1,2-Dichloropropane

Concen: 105.316 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 34572

Ion Ratio Lower Upper

63 100

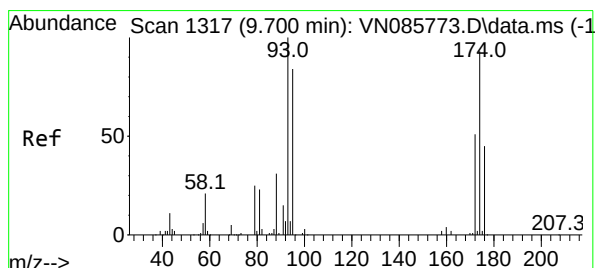
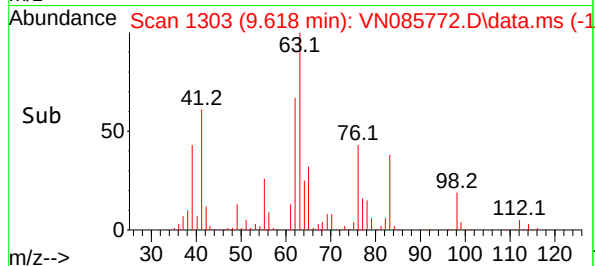
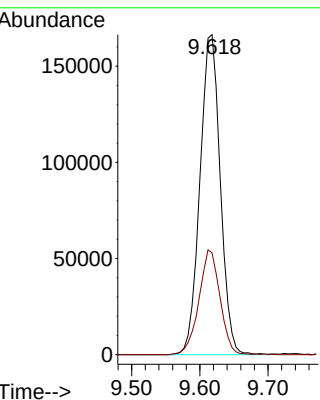
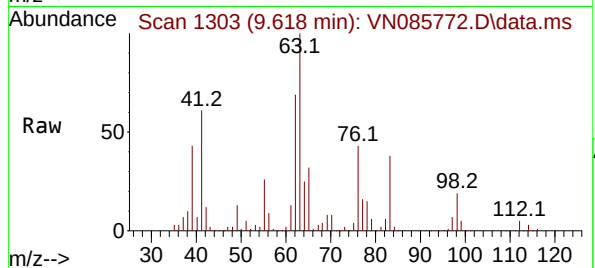
65 31.9 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#46

Dibromomethane

Concen: 105.216 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

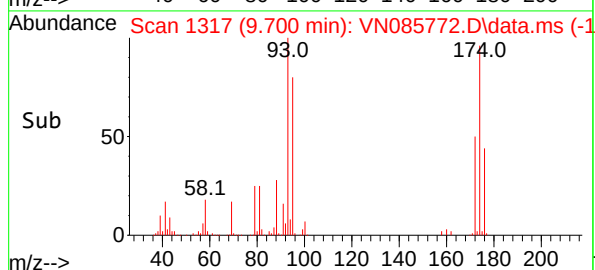
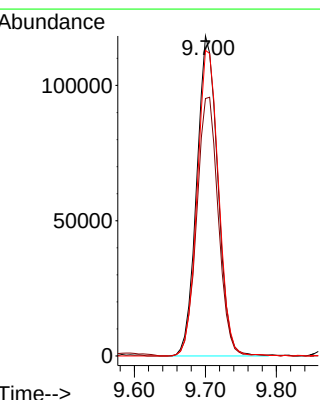
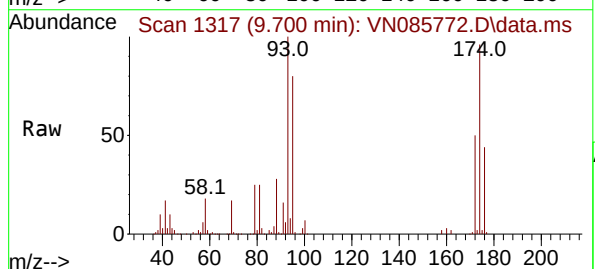
Tgt Ion: 93 Resp: 243628

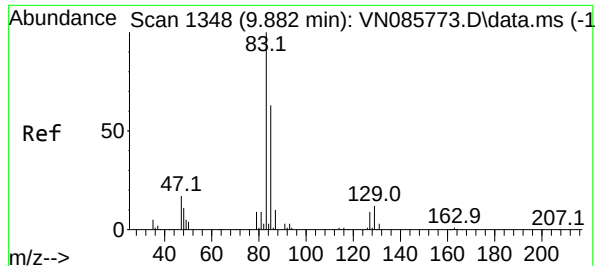
Ion Ratio Lower Upper

93 100

95 82.8 66.7 100.1

174 96.6 77.2 115.8





#47

Bromodichloromethane

Concen: 105.269 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

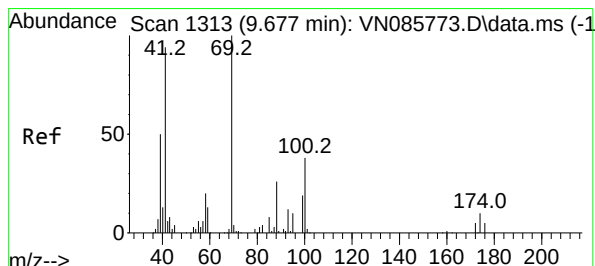
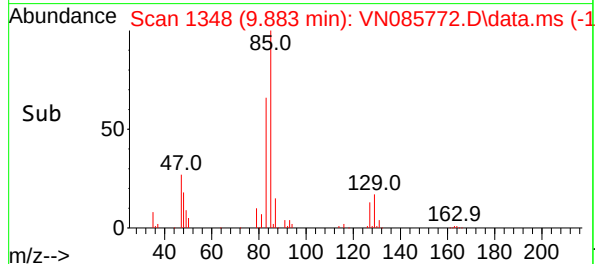
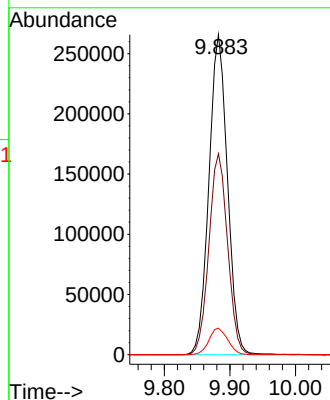
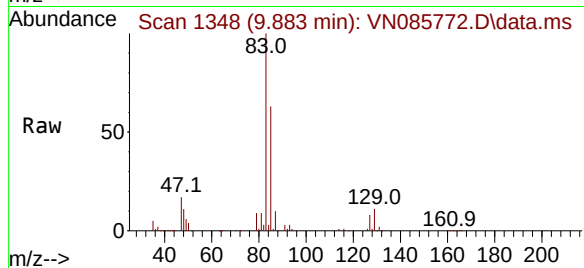
VSTDIC100

Tgt Ion	83	Resp	521490
Ion Ratio	100		
83	100		
85	62.8	50.5	75.7
127	8.3	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#48

Methyl methacrylate

Concen: 117.252 ug/l

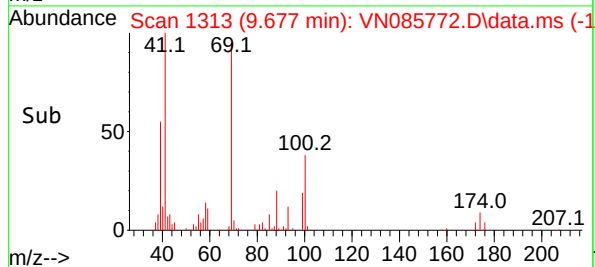
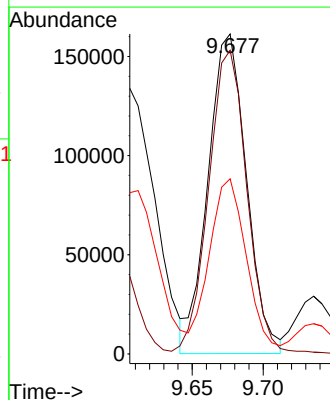
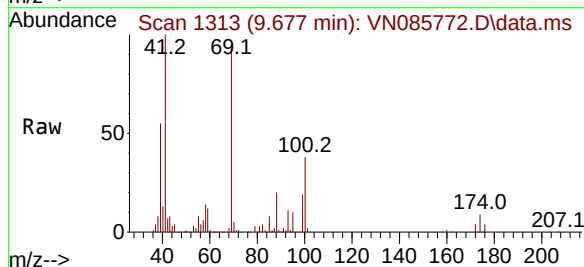
RT: 9.677 min Scan# 1313

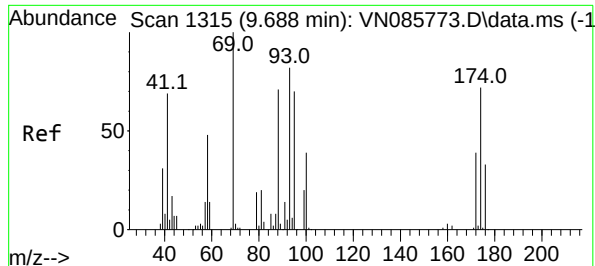
Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Tgt Ion	41	Resp	304067
Ion Ratio	100		
41	100		
69	95.1	76.0	114.0
39	53.0	42.3	63.5





#49

1,4-Dioxane

Concen: 2036.793 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 10044

Ion Ratio Lower Upper

88 100

43 23.5 18.6 27.8

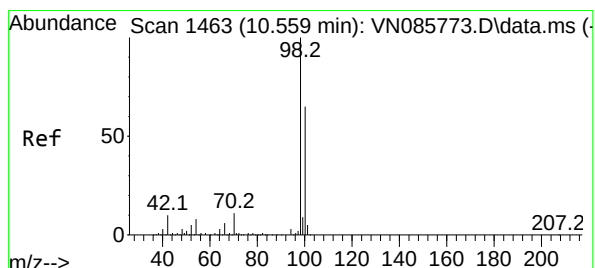
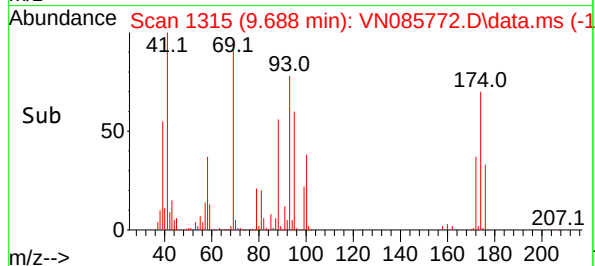
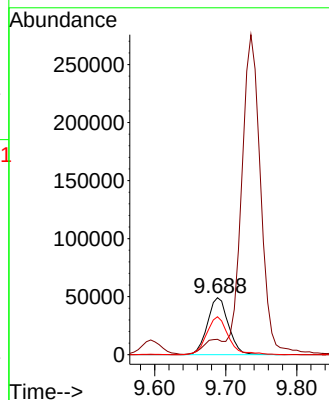
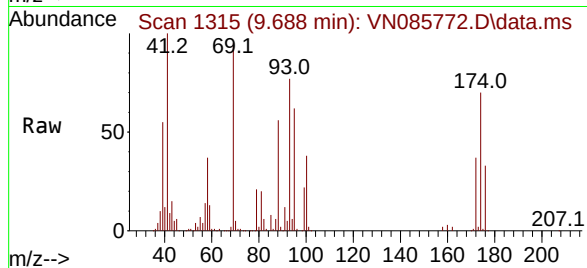
58 69.2 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#50

Toluene-d8

Concen: 121.348 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. 0.000 min

Lab File: VN085772.D

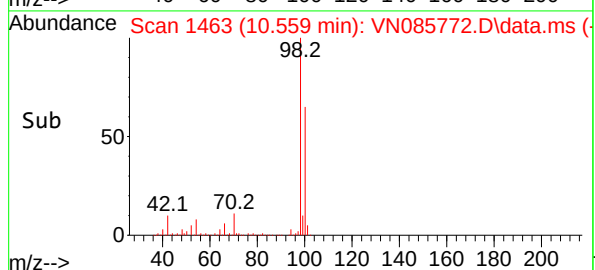
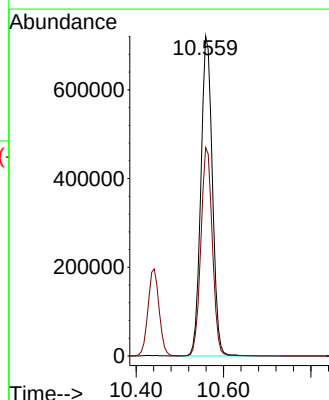
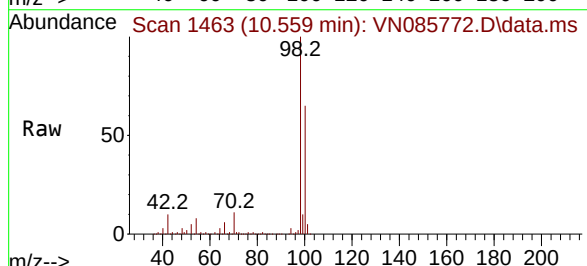
Acq: 18 Feb 2025 11:09

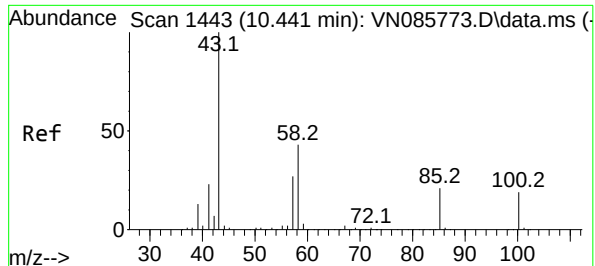
Tgt Ion: 98 Resp: 1323681

Ion Ratio Lower Upper

98 100

100 65.1 52.1 78.1





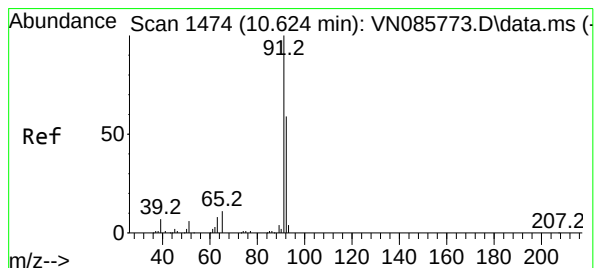
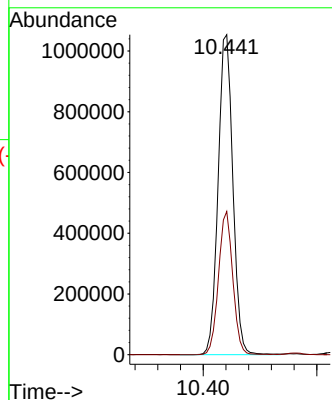
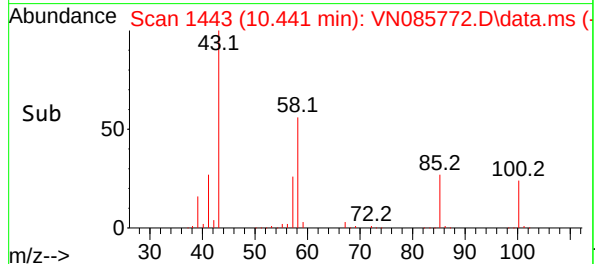
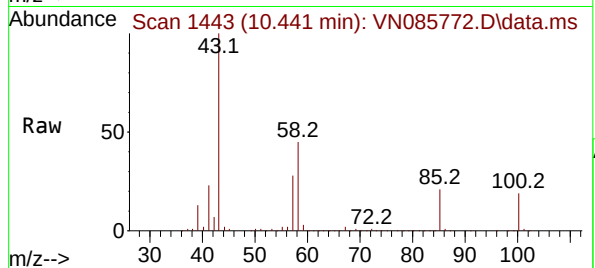
#51
4-Methyl-2-Pentanone
Concen: 563.403 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 189677
Ion Ratio Lower Upper
43 100
58 43.3 34.6 52.0

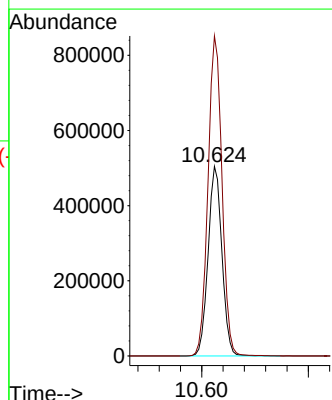
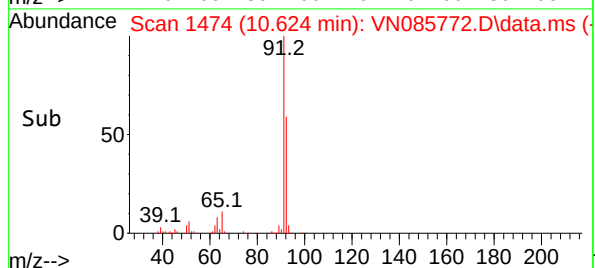
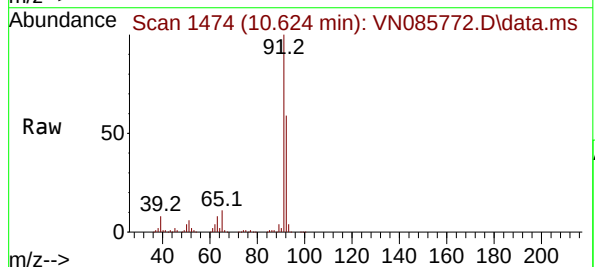
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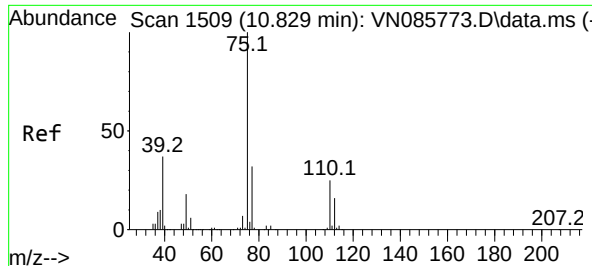
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#52
Toluene
Concen: 114.182 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 92 Resp: 910251
Ion Ratio Lower Upper
92 100
91 170.7 136.9 205.3





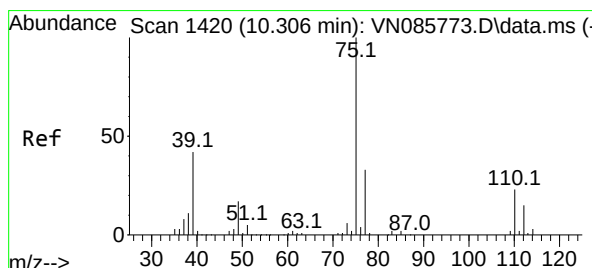
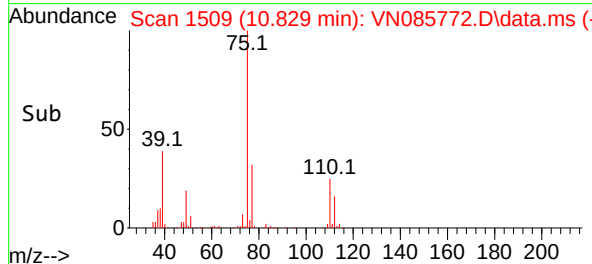
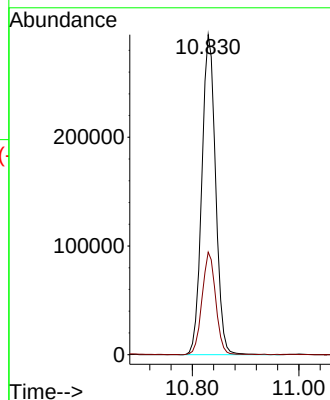
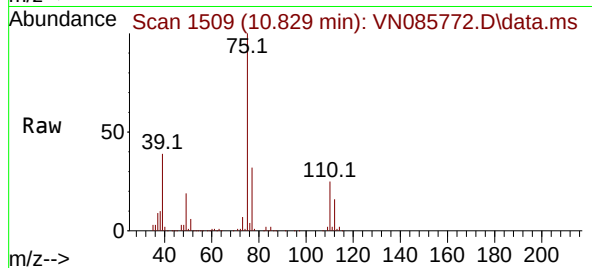
#53
t-1,3-Dichloropropene
Concen: 115.223 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 52781
Ion Ratio Lower Upper
75 100
77 32.0 25.4 38.0

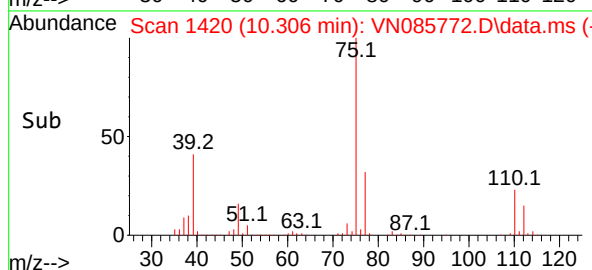
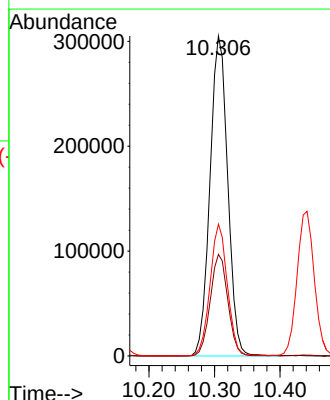
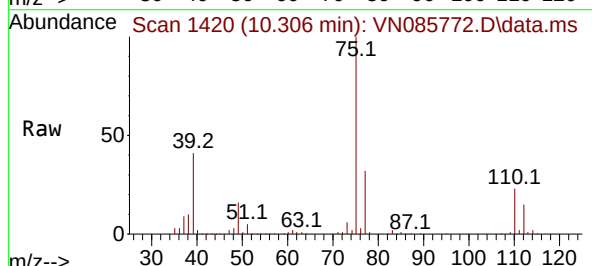
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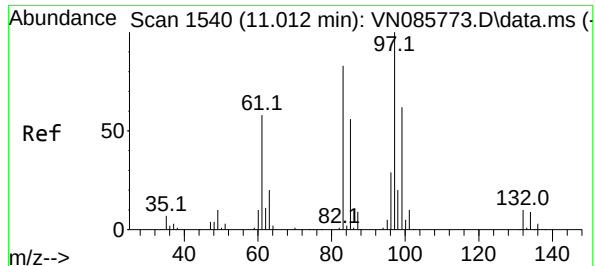
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#54
cis-1,3-Dichloropropene
Concen: 114.202 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 75 Resp: 573653
Ion Ratio Lower Upper
75 100
77 31.7 26.1 39.1
39 41.2 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 104.317 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 33064

Ion Ratio Lower Upper

97 100

83 81.9 66.1 99.1

85 53.8 44.7 67.1

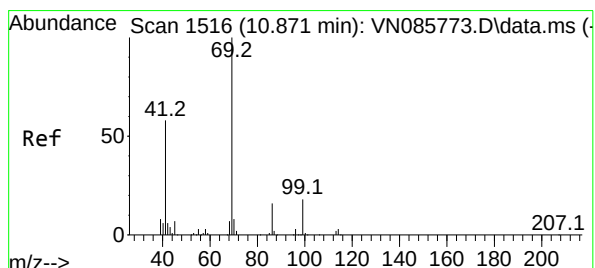
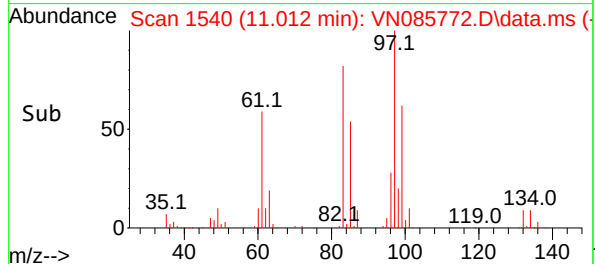
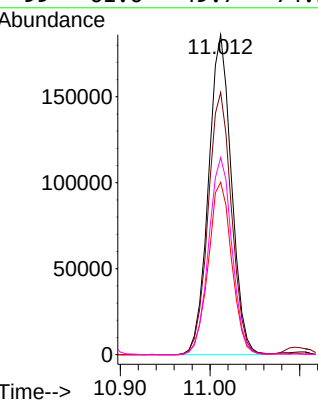
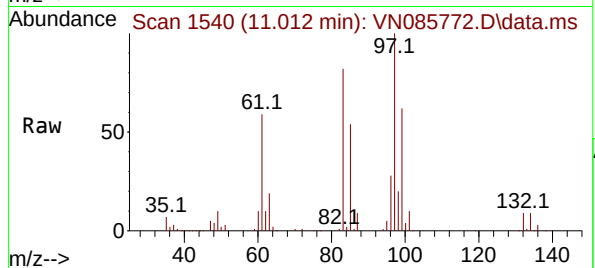
99 61.6 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#56

Ethyl methacrylate

Concen: 100.007 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

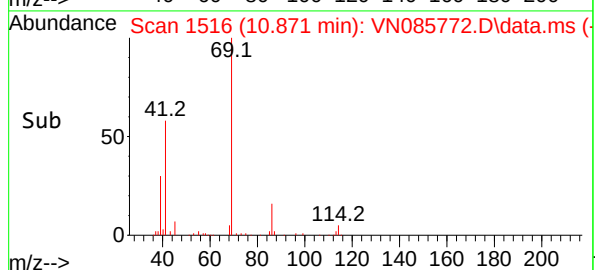
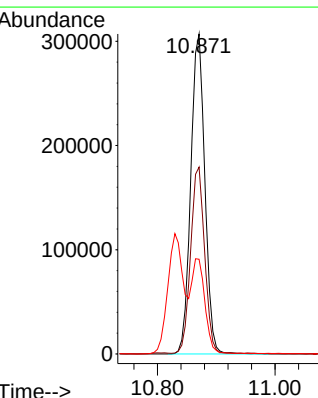
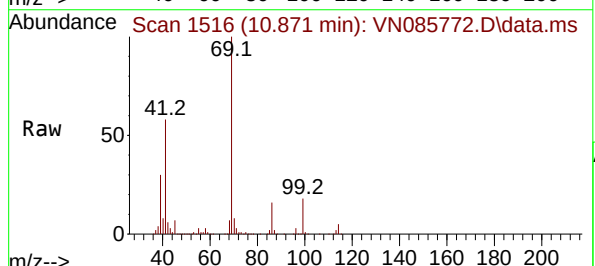
Tgt Ion: 69 Resp: 510041

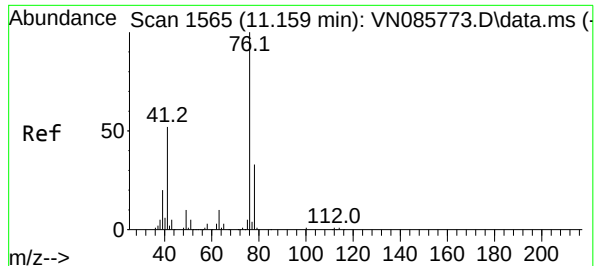
Ion Ratio Lower Upper

69 100

41 57.9 46.0 69.0

39 27.2 22.0 33.0





#57

1,3-Dichloropropane

Concen: 107.169 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 567039

Ion Ratio Lower Upper

76 100

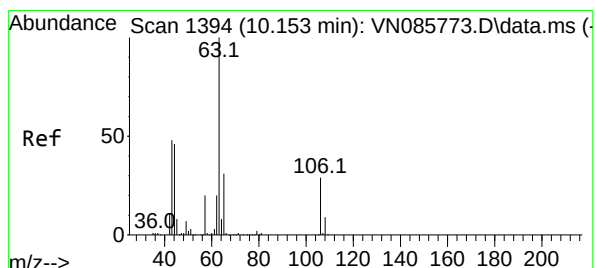
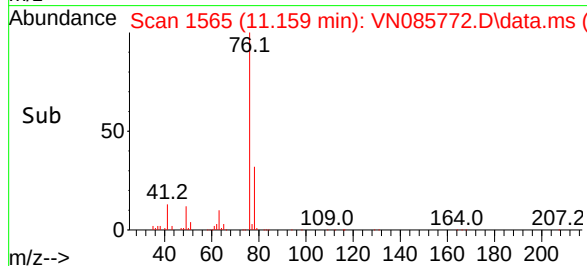
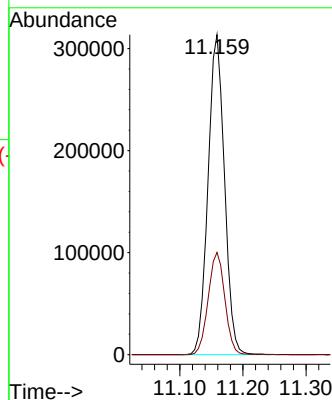
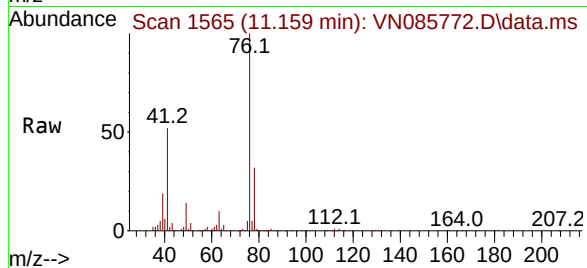
78 32.4 25.9 38.9

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 502.158 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085772.D

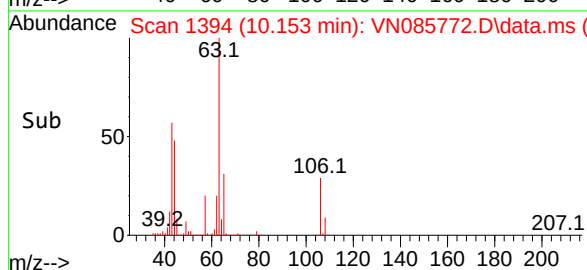
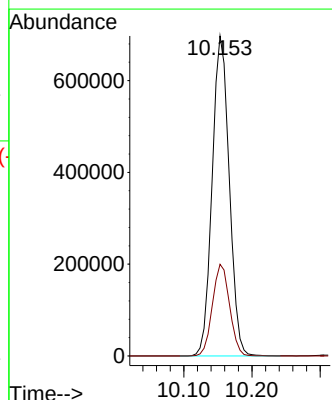
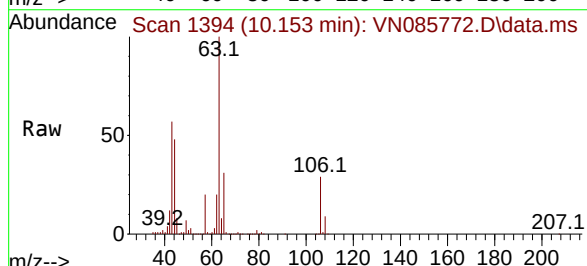
Acq: 18 Feb 2025 11:09

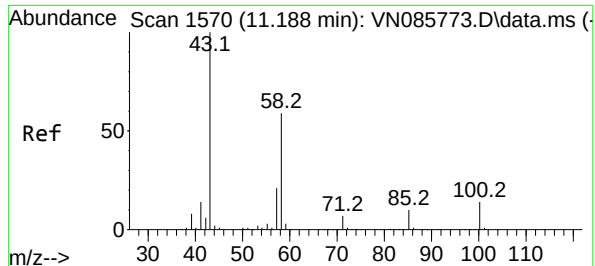
Tgt Ion: 63 Resp: 1216927

Ion Ratio Lower Upper

63 100

106 28.8 22.7 34.1





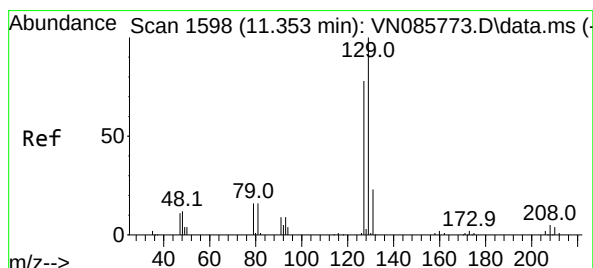
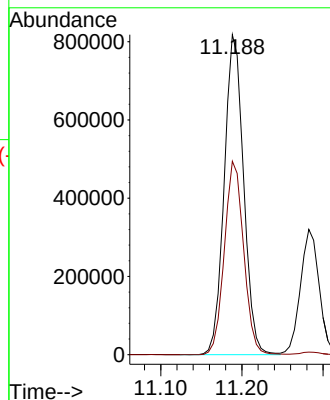
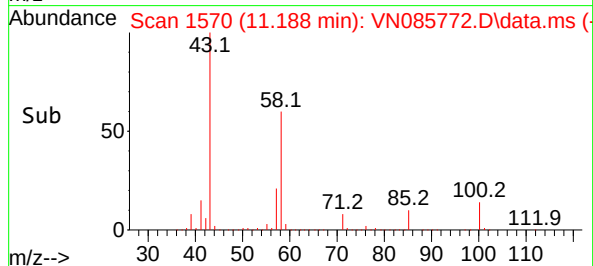
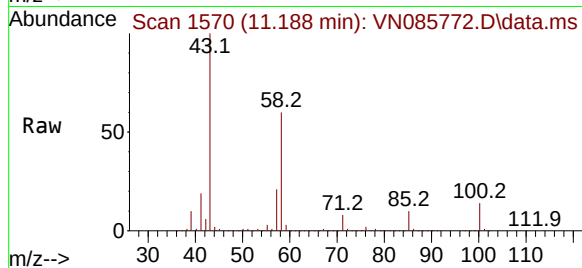
#59
2-Hexanone
Concen: 586.394 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1358120
Ion Ratio Lower Upper
43 100
58 60.2 29.8 89.5

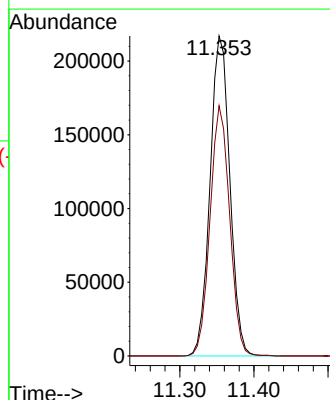
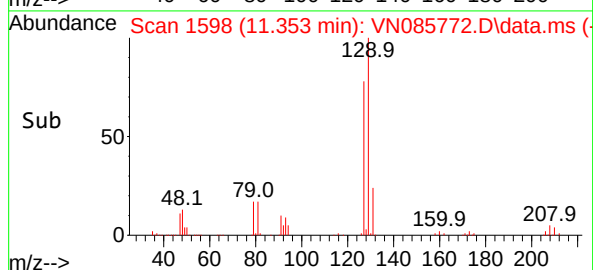
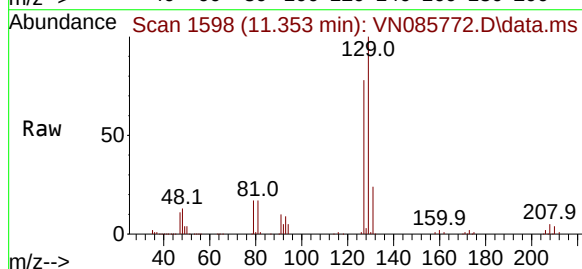
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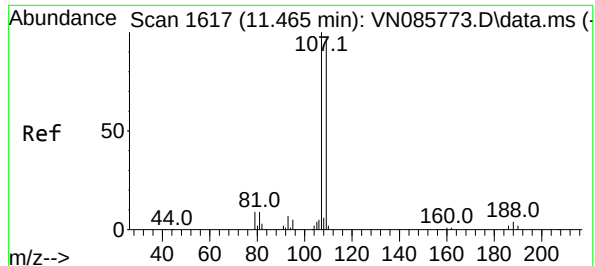
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#60
Dibromochloromethane
Concen: 109.169 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion:129 Resp: 402920
Ion Ratio Lower Upper
129 100
127 77.4 39.1 117.5





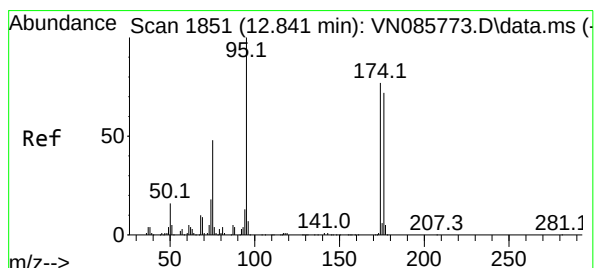
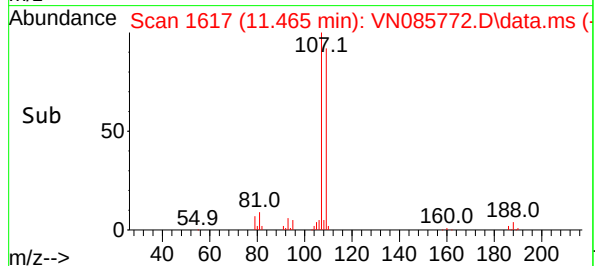
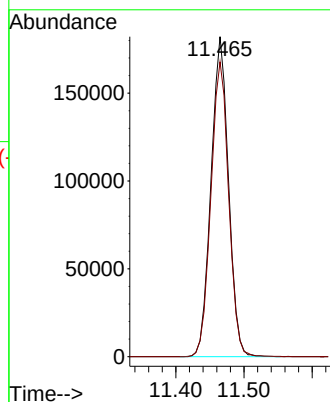
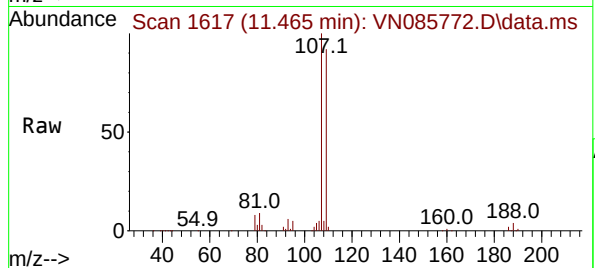
#61
1,2-Dibromoethane
Concen: 108.439 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 32474
Ion Ratio Lower Upper
107 100
109 93.8 76.0 114.0

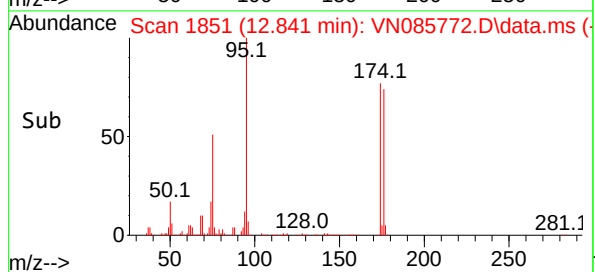
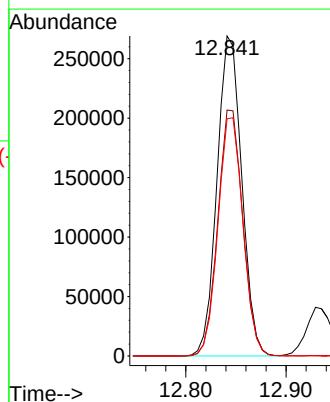
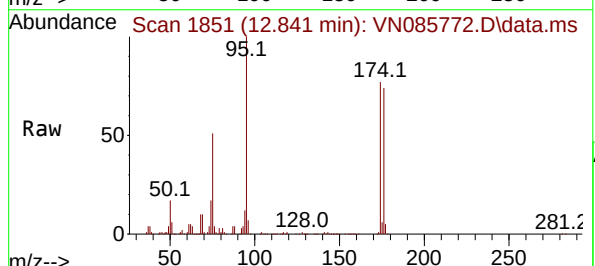
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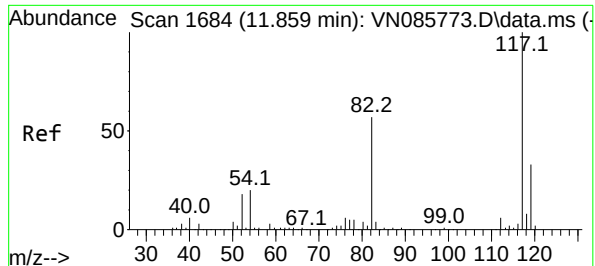
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#62
4-Bromofluorobenzene
Concen: 128.269 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 95 Resp: 460996
Ion Ratio Lower Upper
95 100
174 77.6 0.0 152.4
176 75.2 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:117 Resp: 41261

Ion Ratio Lower Upper

117 100

82 54.8 45.7 68.5

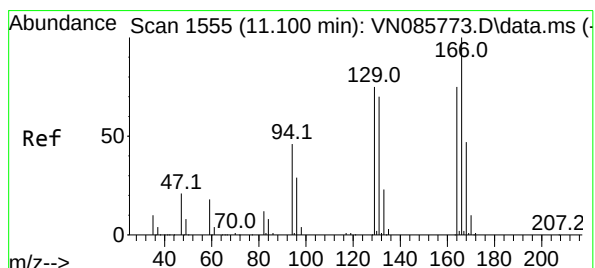
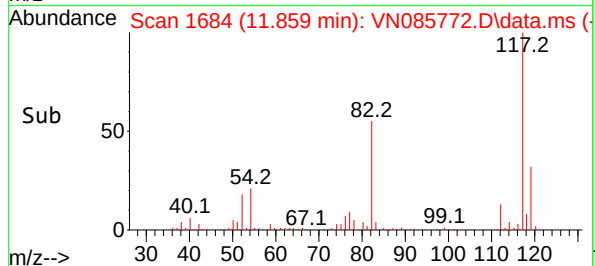
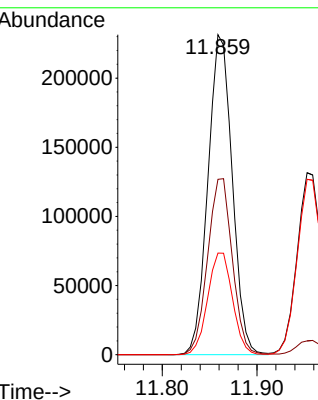
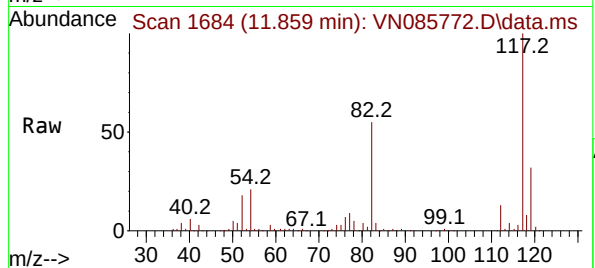
119 31.8 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#64

Tetrachloroethene

Concen: 99.063 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Tgt Ion:164 Resp: 316658

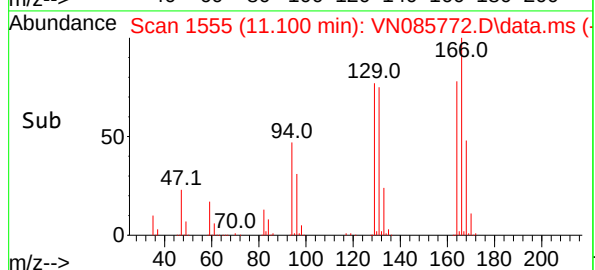
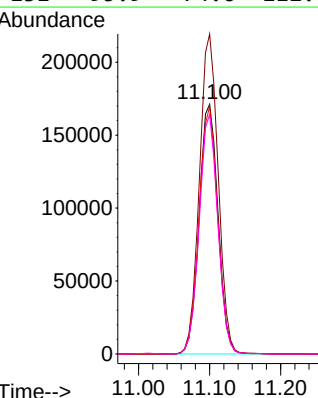
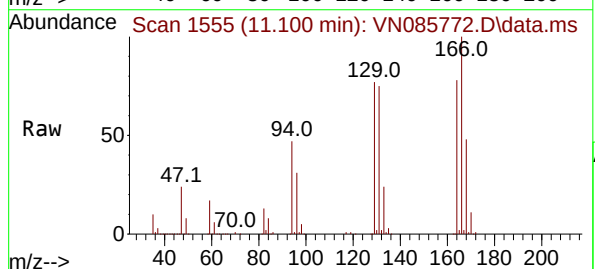
Ion Ratio Lower Upper

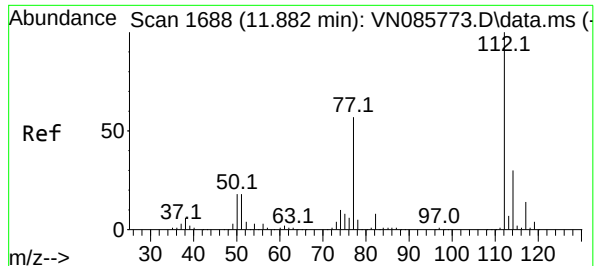
164 100

166 128.1 107.2 160.8

129 99.1 80.7 121.1

131 95.9 74.6 112.0





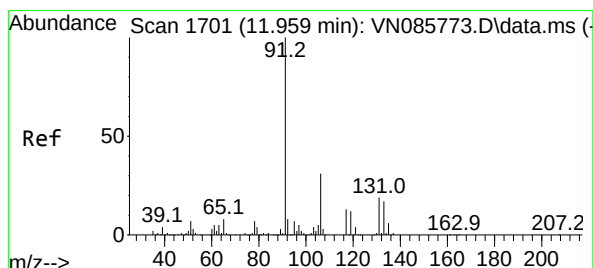
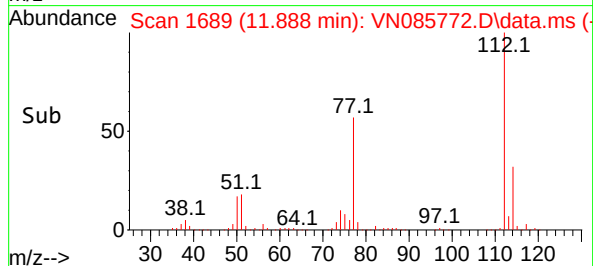
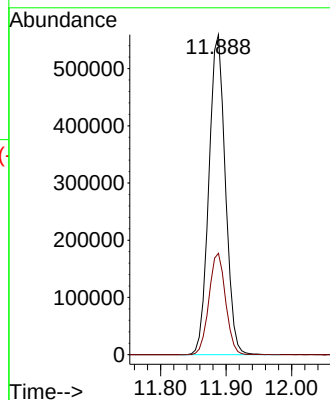
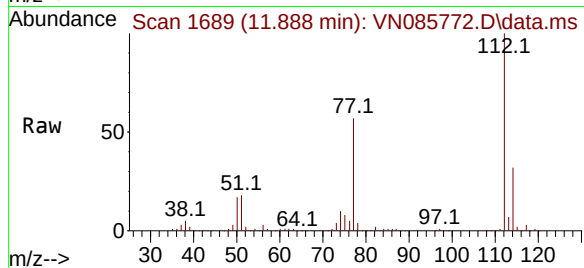
#65
Chlorobenzene
Concen: 103.290 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 97633
Ion Ratio Lower Upper
112 100
114 31.7 24.3 36.5

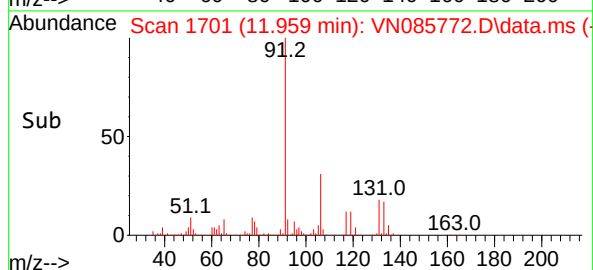
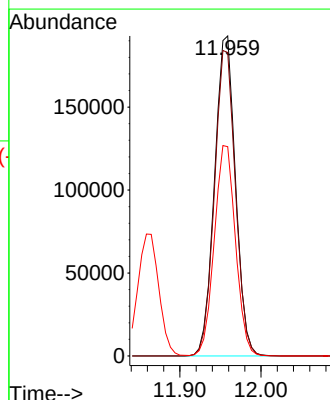
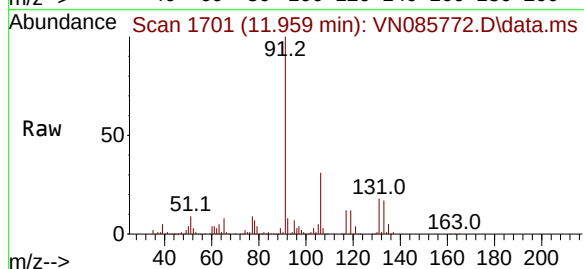
Manual Integrations
APPROVED

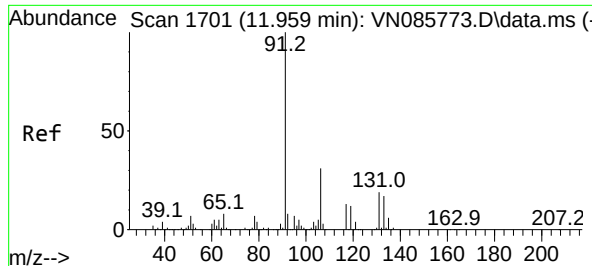
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 102.068 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion:131 Resp: 346777
Ion Ratio Lower Upper
131 100
133 95.6 47.7 143.1
119 66.5 33.3 99.8





#67

Ethyl Benzene

Concen: 117.301 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 173684

Ion Ratio Lower Upper

91 100

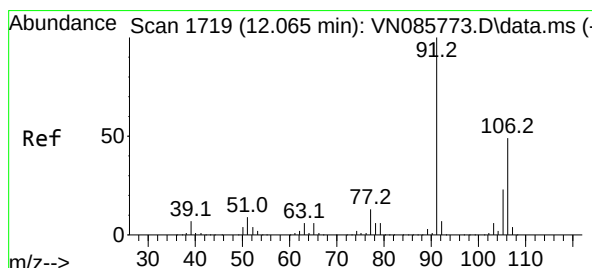
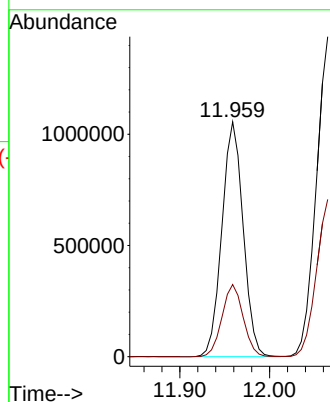
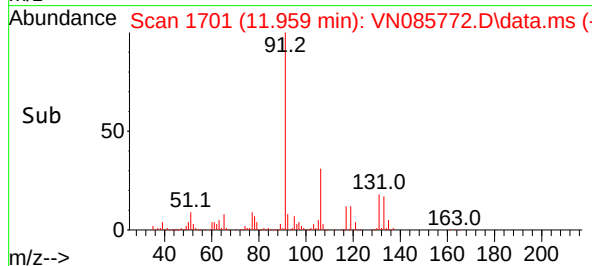
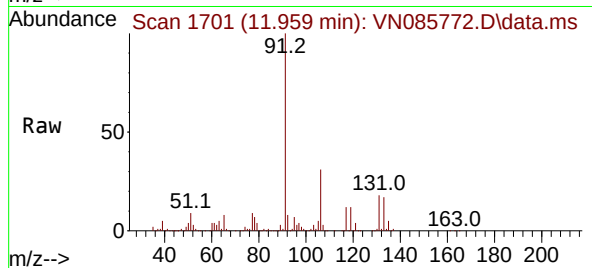
106 30.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#68

m/p-Xylenes

Concen: 237.496 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085772.D

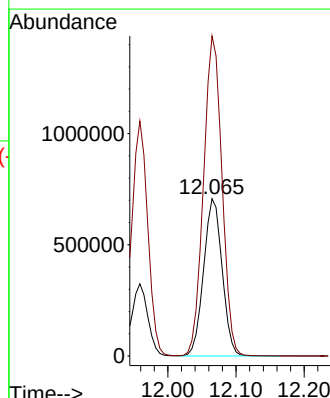
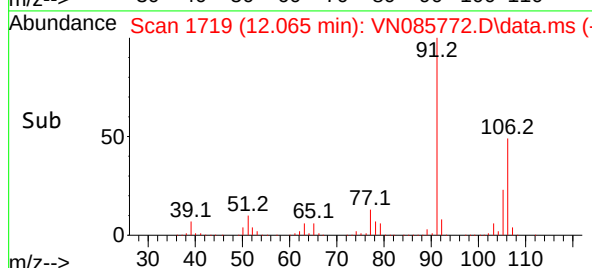
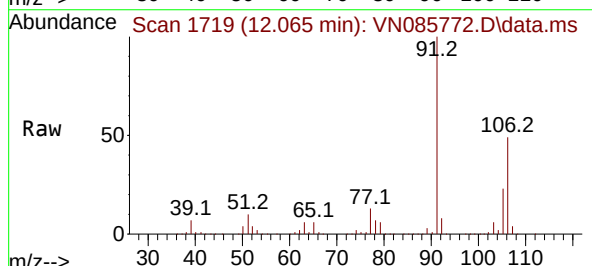
Acq: 18 Feb 2025 11:09

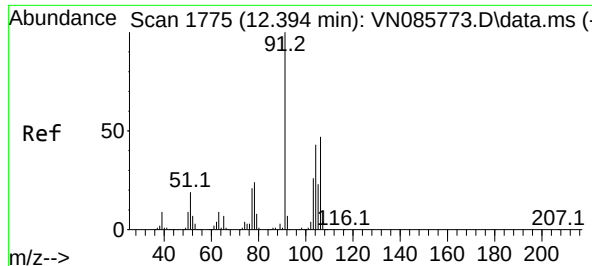
Tgt Ion:106 Resp: 1335750

Ion Ratio Lower Upper

106 100

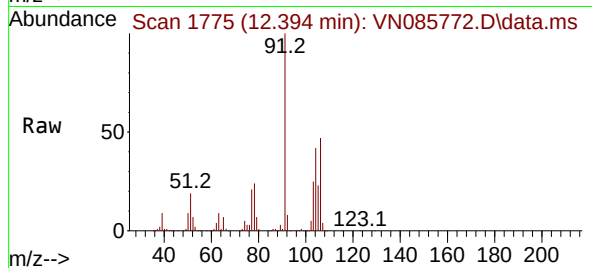
91 203.3 163.3 244.9





#69
o-Xylene
Concen: 118.977 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

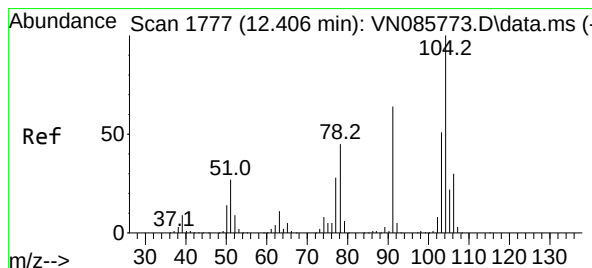
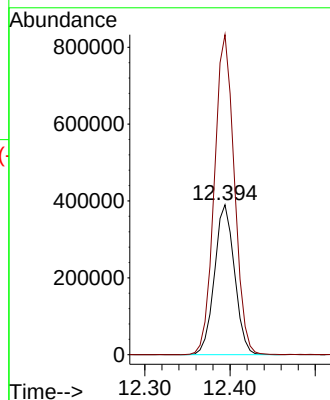
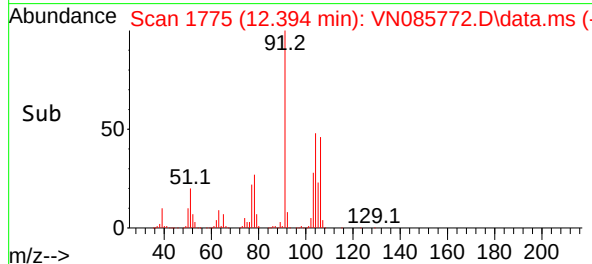
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:106 Resp: 635879
Ion Ratio Lower Upper
106 100
91 213.2 107.1 321.4

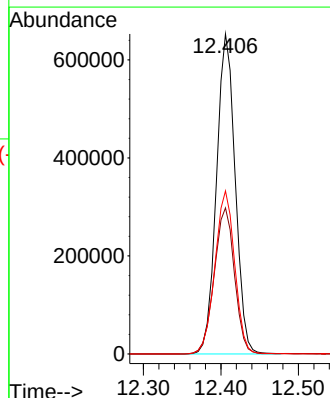
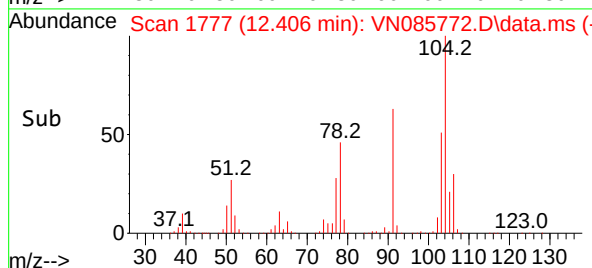
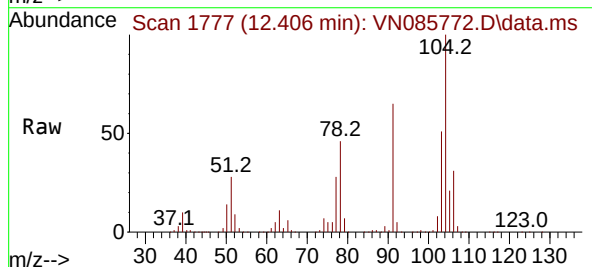
Manual Integrations
APPROVED

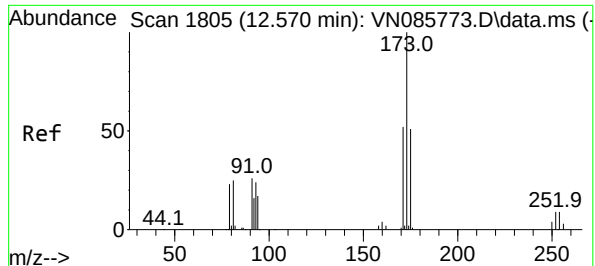
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#70
Styrene
Concen: 100.012 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

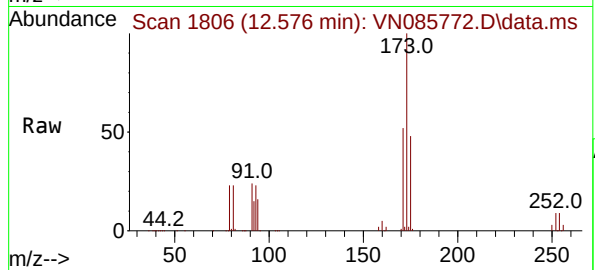
Tgt Ion:104 Resp: 1095464
Ion Ratio Lower Upper
104 100
78 49.3 39.0 58.6
103 53.9 43.3 64.9





#71
Bromoform
Concen: 106.877 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

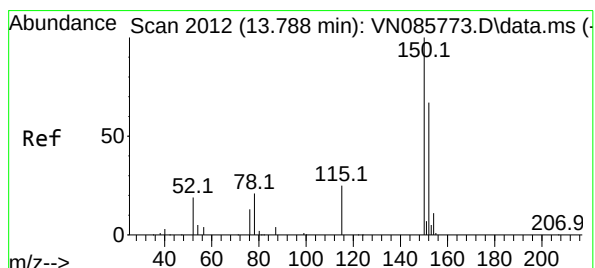
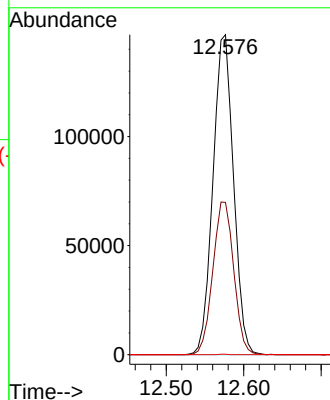
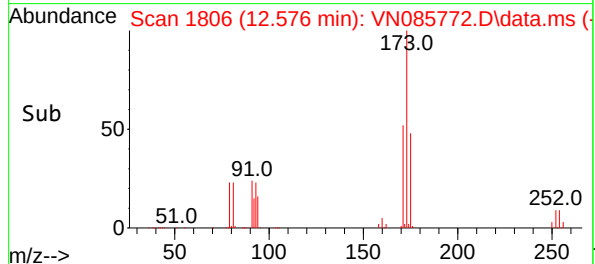
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



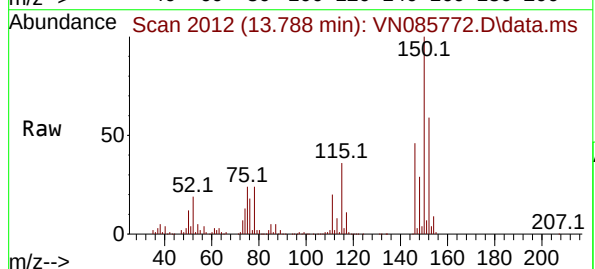
Tgt Ion:173 Resp: 269810
Ion Ratio Lower Upper
173 100
175 48.7 25.1 75.4
254 0.1 0.0 0.0

Manual Integrations
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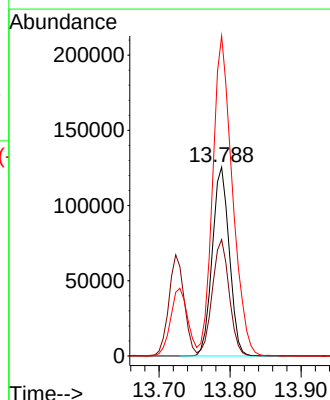
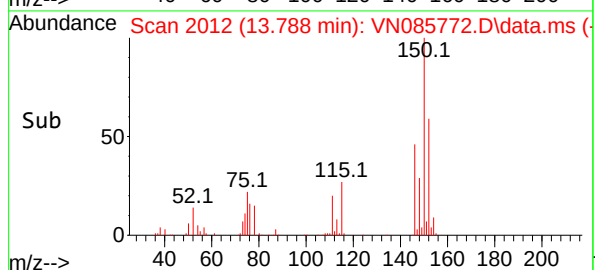
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

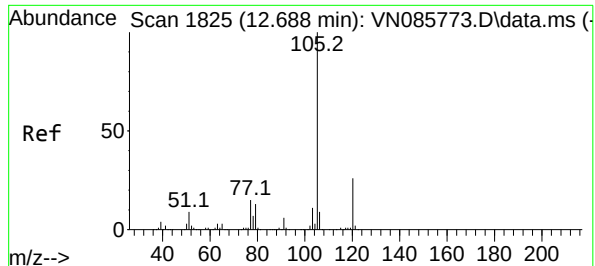


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09



Tgt Ion:152 Resp: 208401
Ion Ratio Lower Upper
152 100
115 61.5 30.4 91.3
150 196.0 0.0 345.4





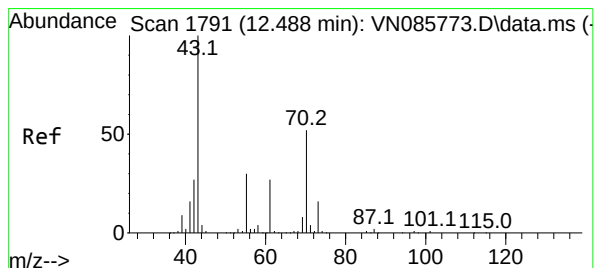
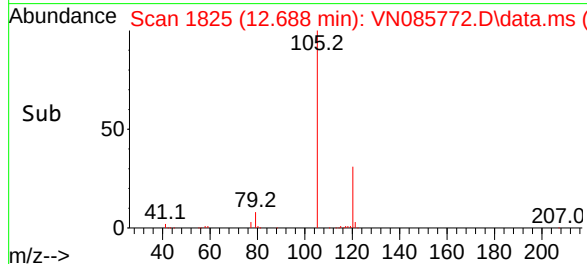
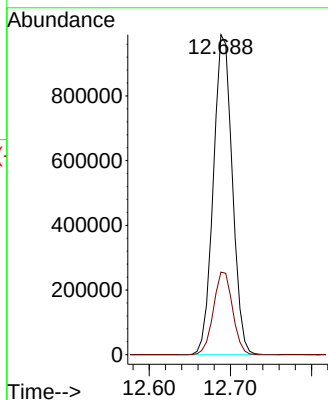
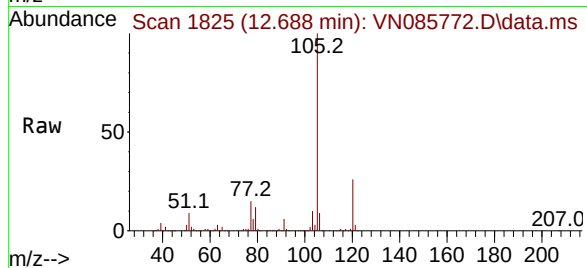
#73
Isopropylbenzene
Concen: 112.422 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1605090
Ion Ratio Lower Upper
105 100
120 26.1 13.0 39.0

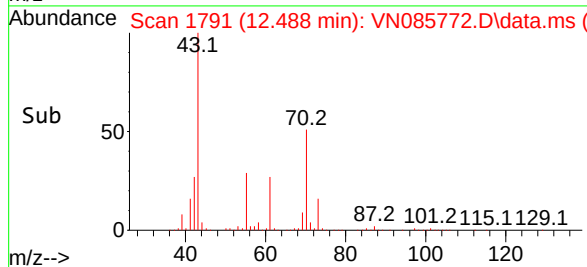
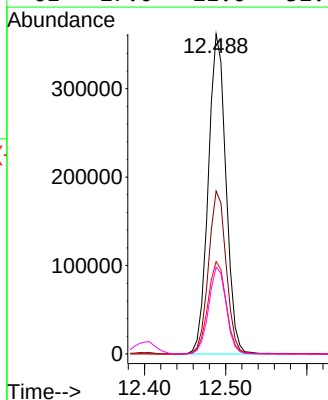
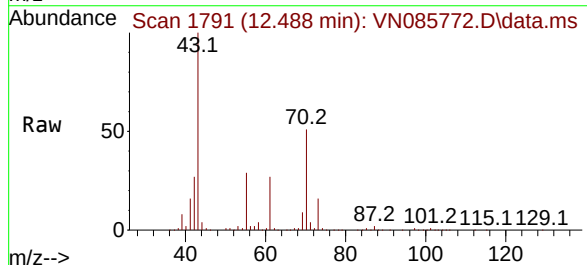
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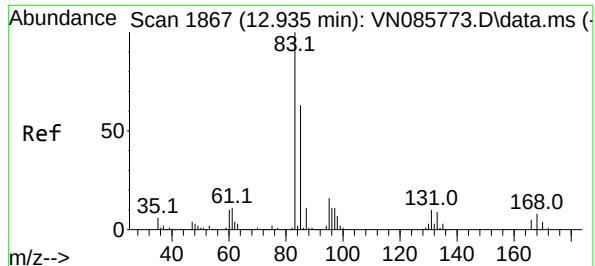
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#74
N-ethyl acetate
Concen: 108.541 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 43 Resp: 546485
Ion Ratio Lower Upper
43 100
70 50.8 41.0 61.4
55 29.9 24.6 36.8
61 27.0 21.6 32.4





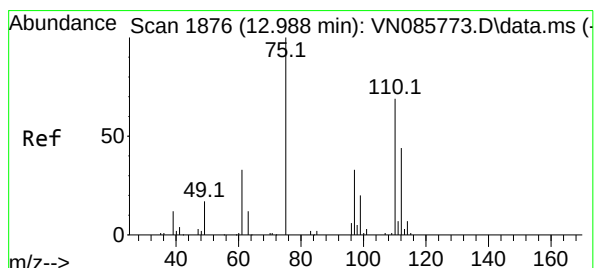
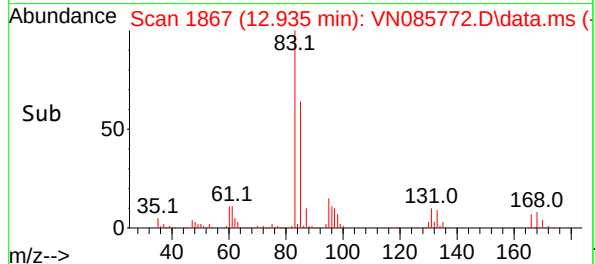
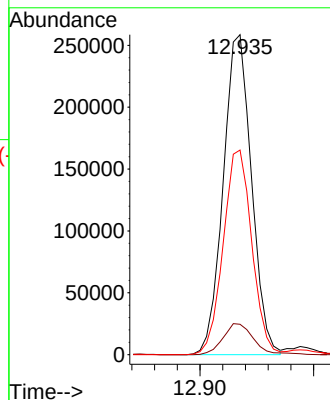
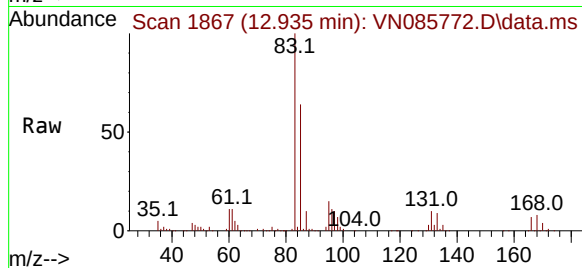
#75
1,1,2,2-Tetrachloroethane
Concen: 91.050 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 447332
Ion Ratio Lower Upper
83 100
131 10.5 5.0 15.0
85 64.6 32.2 96.6

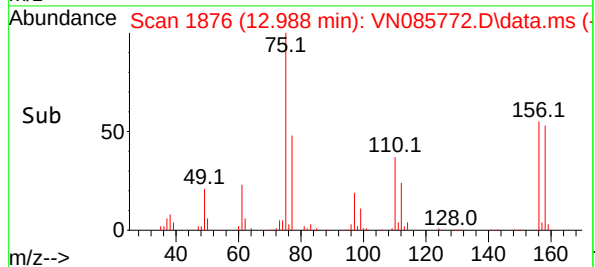
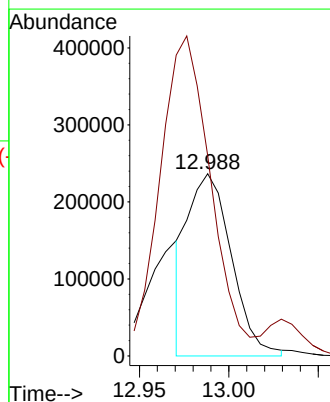
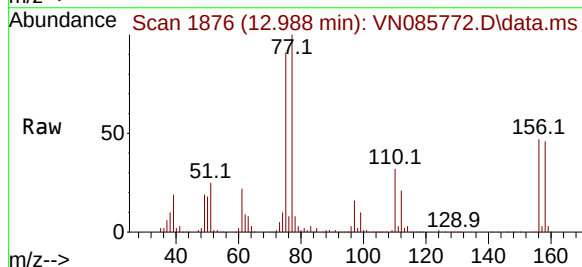
Manual Integrations
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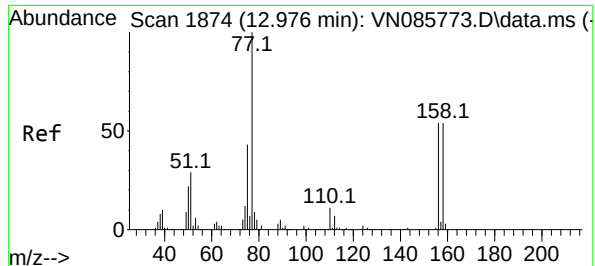
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#76
1,2,3-Trichloropropane
Concen: 87.774 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 75 Resp: 401864
Ion Ratio Lower Upper
75 100
77 204.4 100.0 300.0





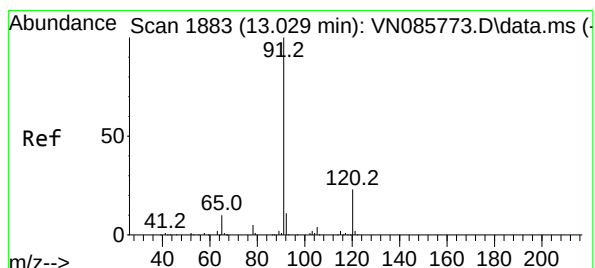
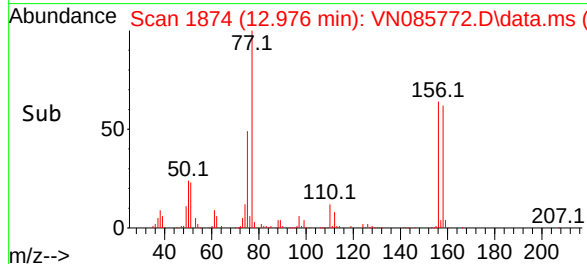
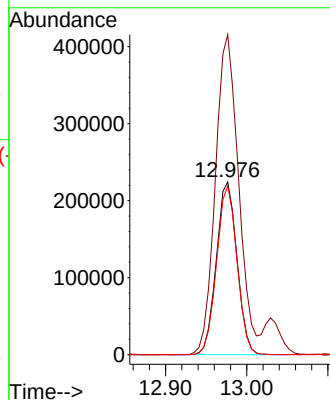
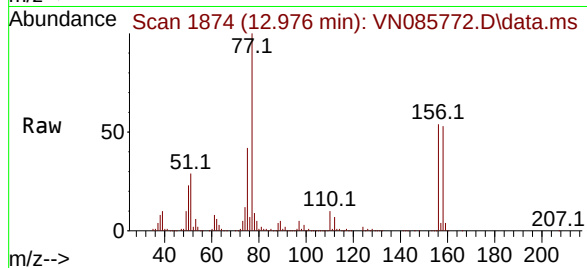
#77
Bromobenzene
Concen: 102.631 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 395882
Ion Ratio Lower Upper
156 100
77 207.5 104.1 312.3
158 96.5 48.1 144.4

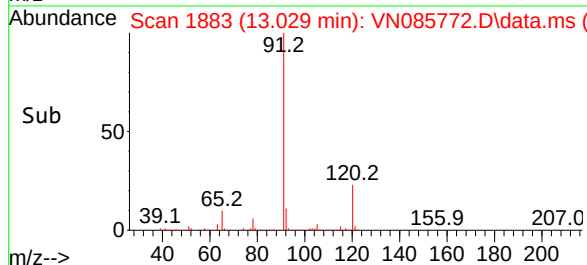
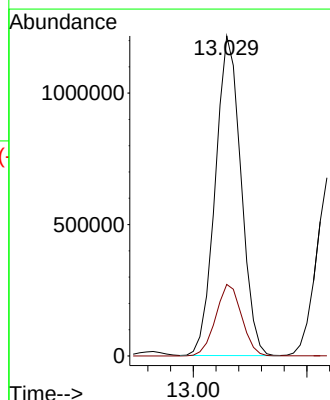
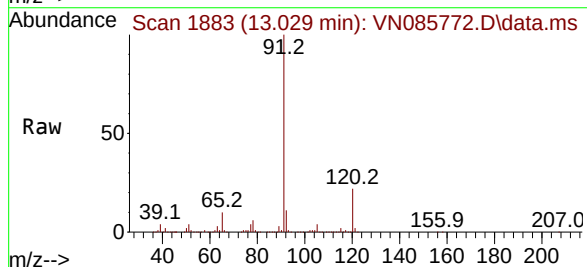
Manual Integrations
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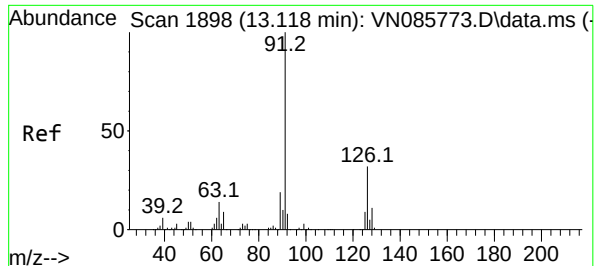
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#78
n-propylbenzene
Concen: 116.552 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

Tgt Ion: 91 Resp: 1905758
Ion Ratio Lower Upper
91 100
120 22.7 11.3 33.8





#79

2-Chlorotoluene

Concen: 106.029 ug/l

RT: 13.118 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 115834

Ion Ratio Lower Upper

91 100

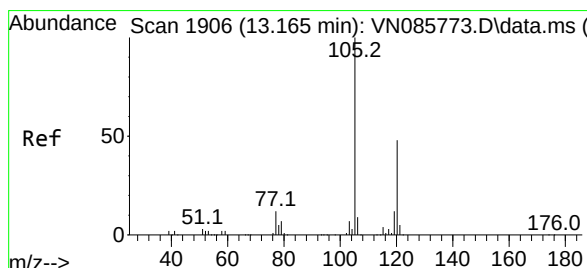
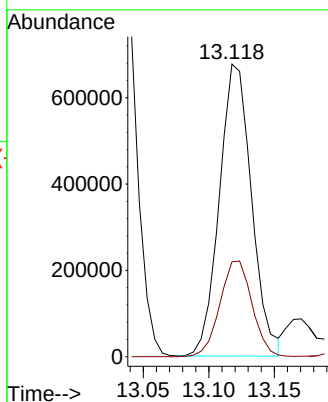
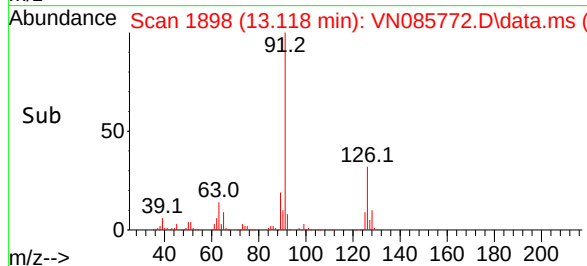
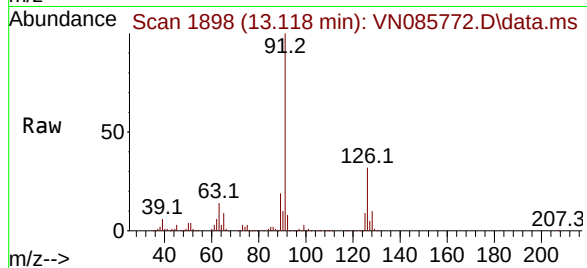
126 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 116.226 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085772.D

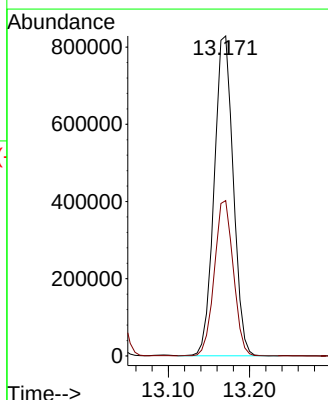
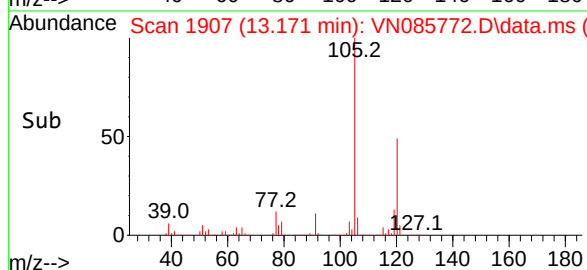
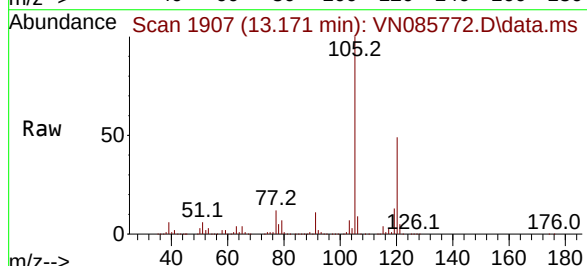
Acq: 18 Feb 2025 11:09

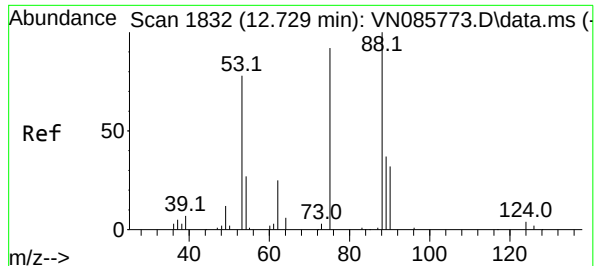
Tgt Ion:105 Resp: 1351753

Ion Ratio Lower Upper

105 100

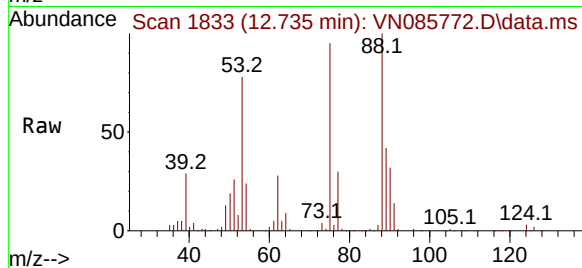
120 48.4 24.3 72.9





#81
trans-1,4-Dichloro-2-butene
Concen: 107.459 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.006 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

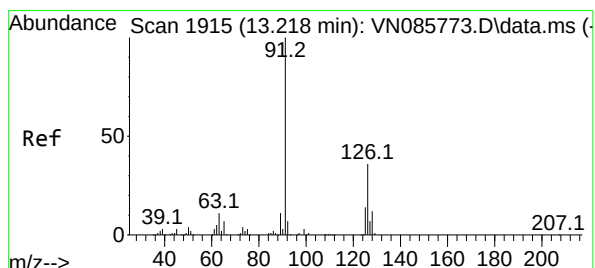
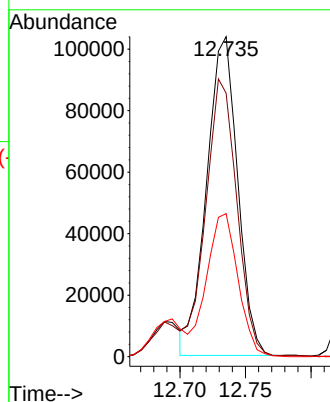
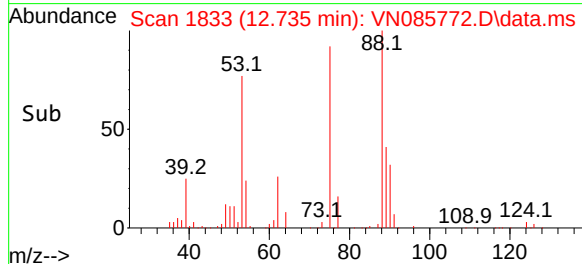
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 170494
Ion Ratio Lower Upper
75 100
53 88.3 74.2 111.4
89 45.3 34.9 52.3

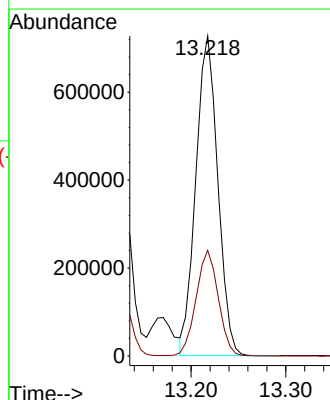
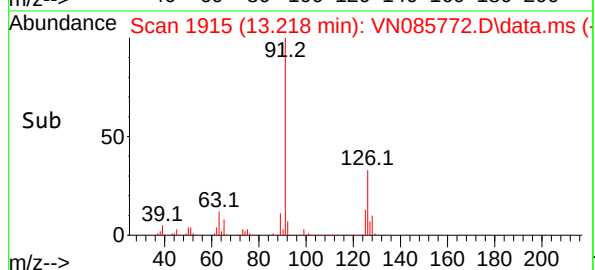
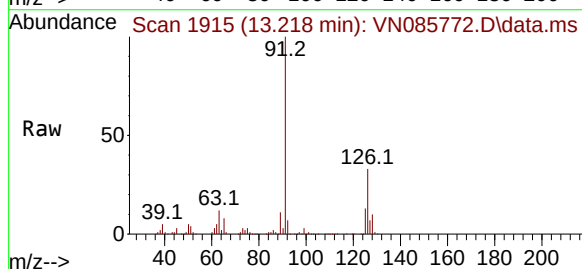
Manual Integrations
APPROVED

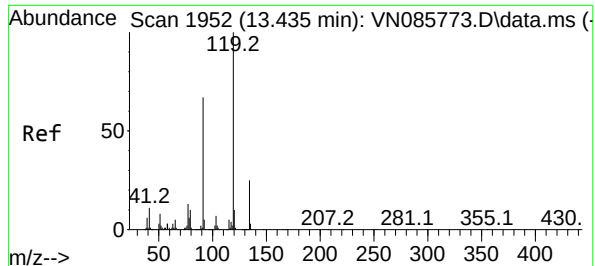
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#82
4-Chlorotoluene
Concen: 108.322 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

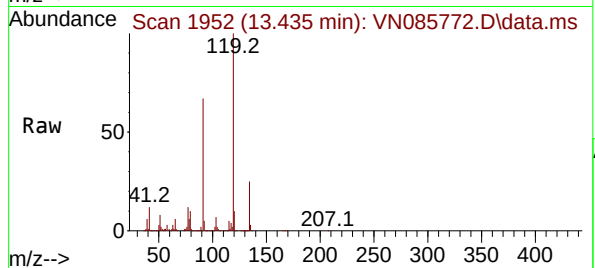
Tgt Ion: 91 Resp: 1173182
Ion Ratio Lower Upper
91 100
126 33.4 16.4 49.4





#83
tert-Butylbenzene
Concen: 116.235 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

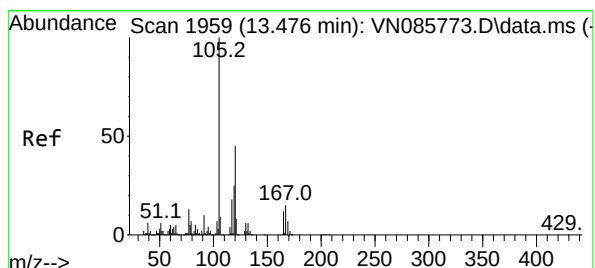
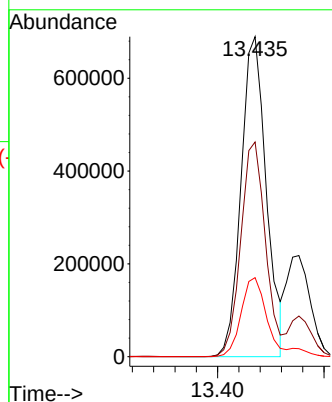
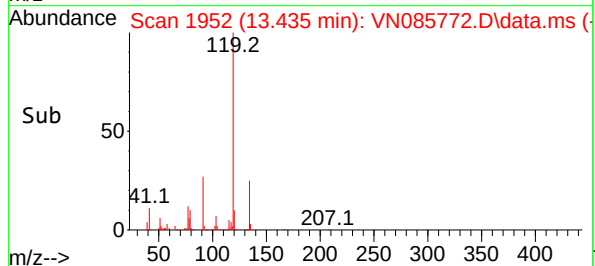
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



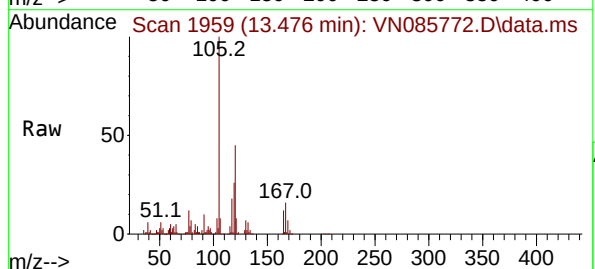
Tgt Ion:119 Resp: 113680
Ion Ratio Lower Upper
119 100
91 65.5 32.5 97.5
134 26.5 13.3 39.9

Manual Integrations
APPROVED

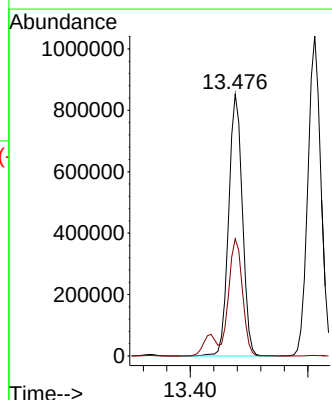
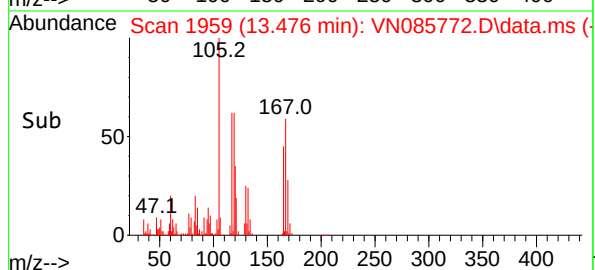
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

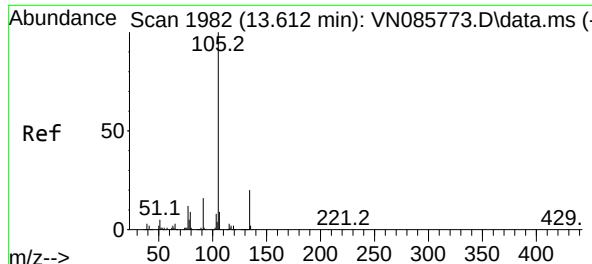


#84
1,2,4-Trimethylbenzene
Concen: 119.764 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09



Tgt Ion:105 Resp: 1378080
Ion Ratio Lower Upper
105 100
120 44.9 22.4 67.3





#85

sec-Butylbenzene

Concen: 116.540 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 161038

Ion Ratio Lower Upper

105 100

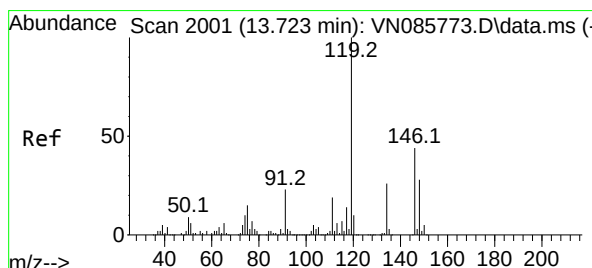
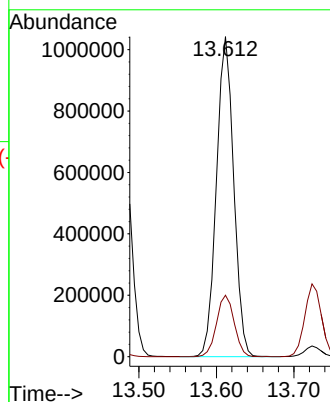
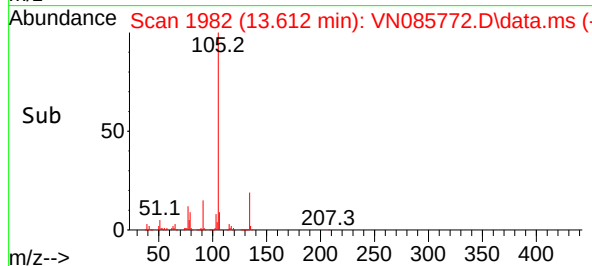
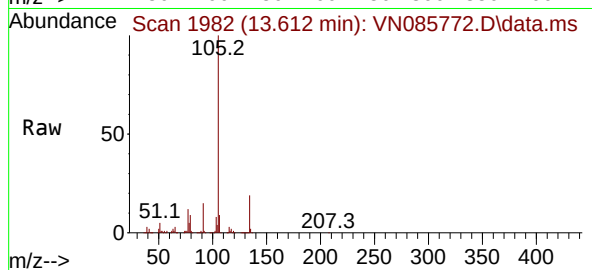
134 19.7 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 99.983 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

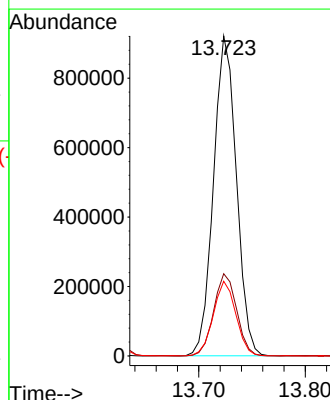
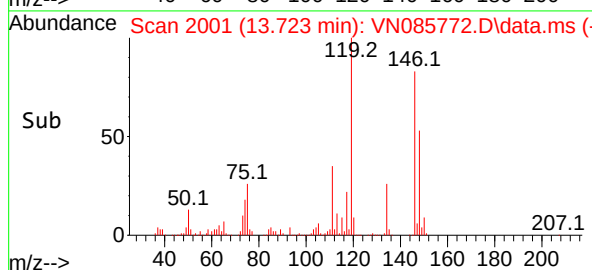
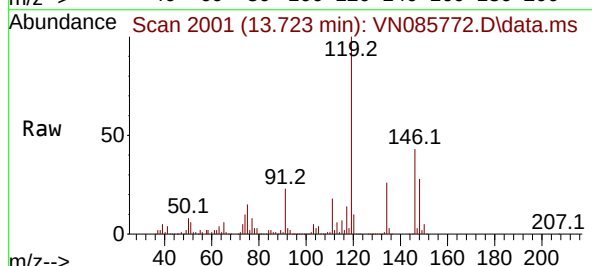
Tgt Ion:119 Resp: 1374884

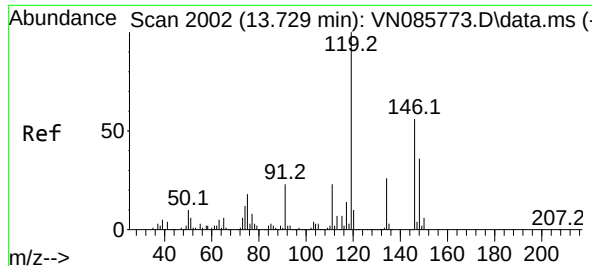
Ion Ratio Lower Upper

119 100

134 25.8 13.0 39.0

91 23.1 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 102.213 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 738679

Ion Ratio Lower Upper

146 100

111 41.4 21.1 63.3

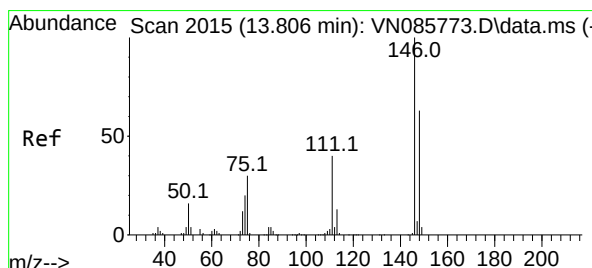
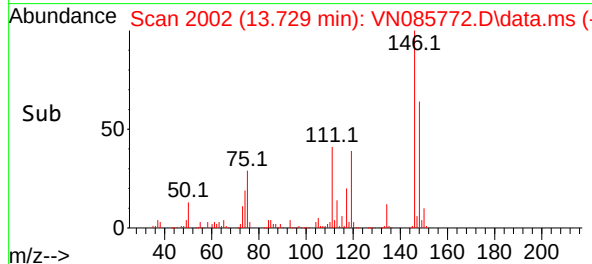
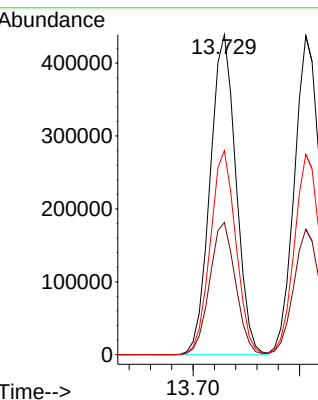
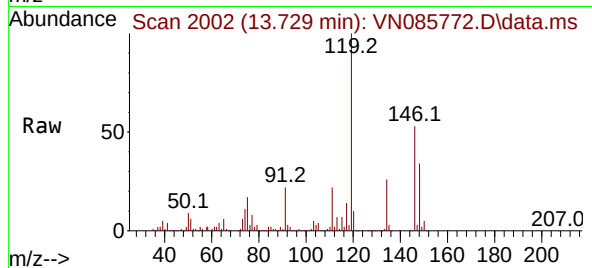
148 63.4 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 98.484 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

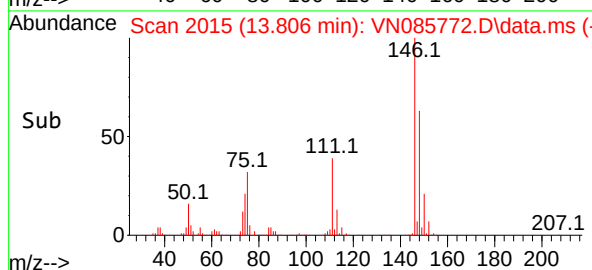
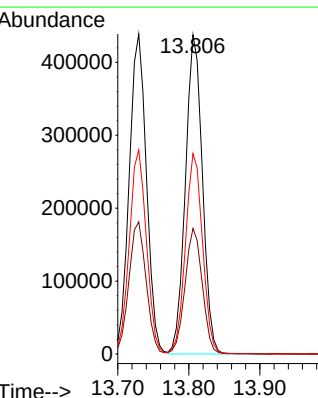
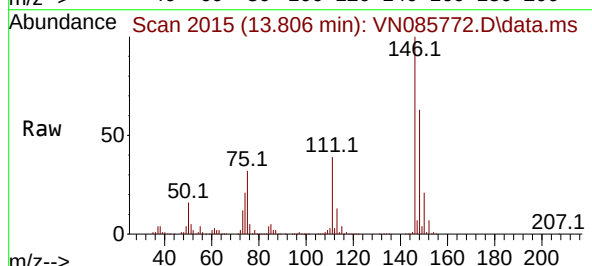
Tgt Ion:146 Resp: 729470

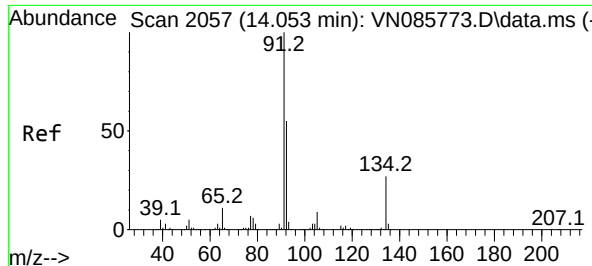
Ion Ratio Lower Upper

146 100

111 40.1 20.4 61.3

148 63.1 31.8 95.4





#89

n-Butylbenzene

Concen: 120.179 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 117905

Ion Ratio Lower Upper

91 100

92 53.3 27.1 81.3

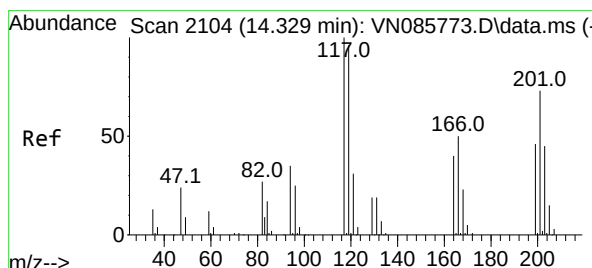
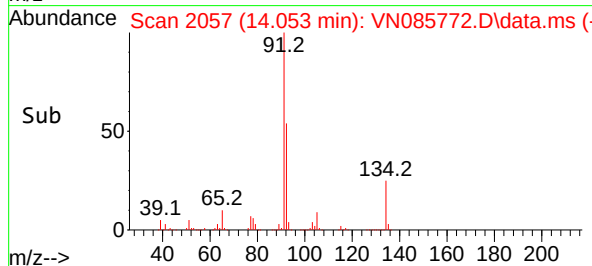
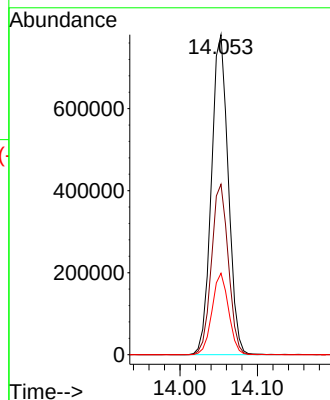
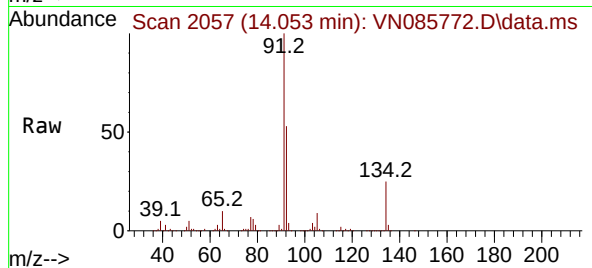
134 25.0 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#90

Hexachloroethane

Concen: 98.800 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085772.D

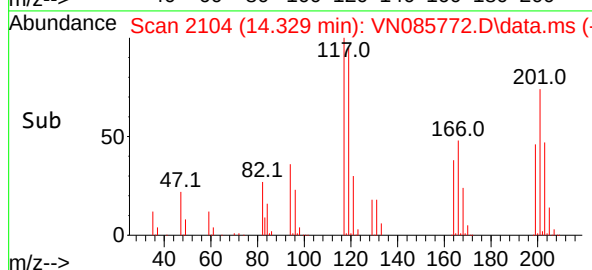
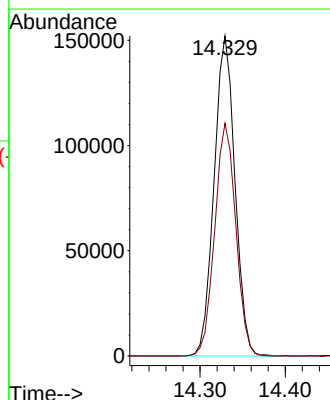
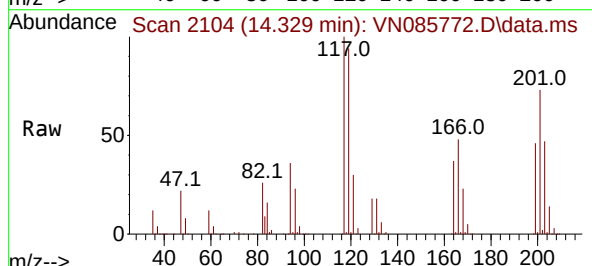
Acq: 18 Feb 2025 11:09

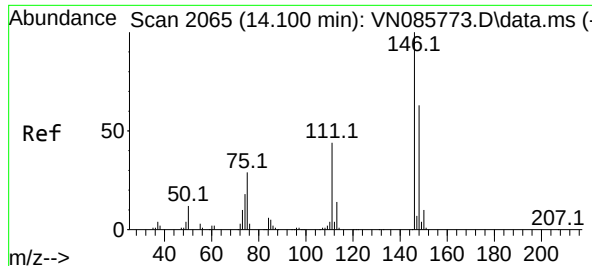
Tgt Ion:117 Resp: 258559

Ion Ratio Lower Upper

117 100

201 73.4 35.6 106.9





#91

1,2-Dichlorobenzene

Concen: 99.562 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 69190

Ion Ratio Lower Upper

146 100

111 43.3 21.4 64.3

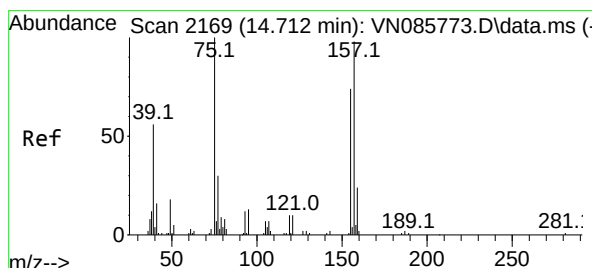
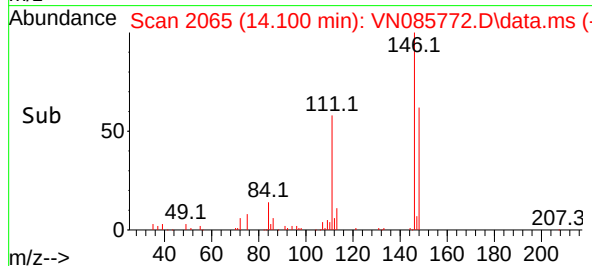
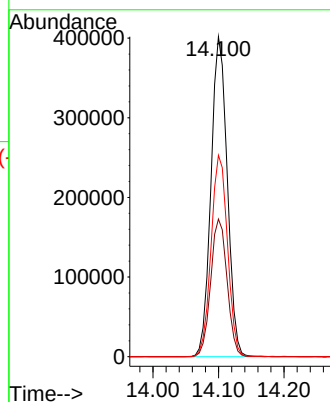
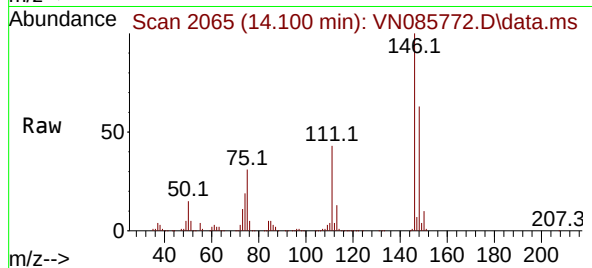
148 63.5 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 91.495 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.006 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09

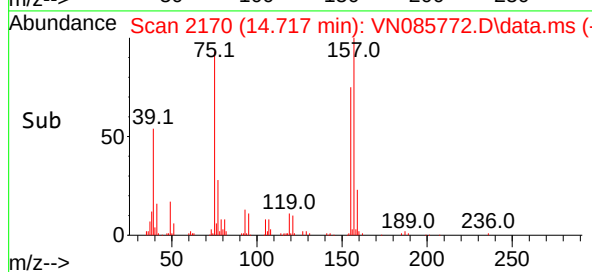
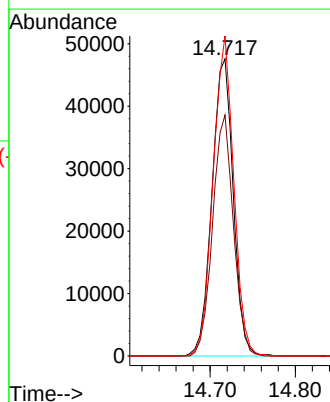
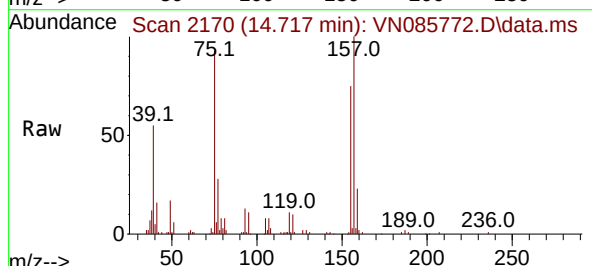
Tgt Ion: 75 Resp: 82545

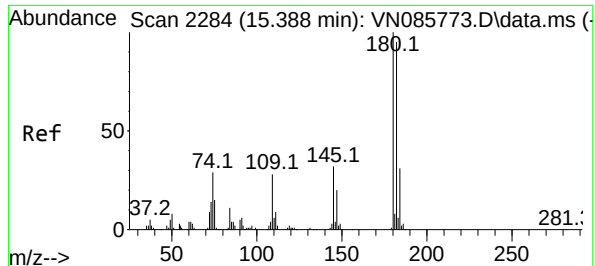
Ion Ratio Lower Upper

75 100

155 79.3 39.9 119.6

157 104.4 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 110.404 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085772.D

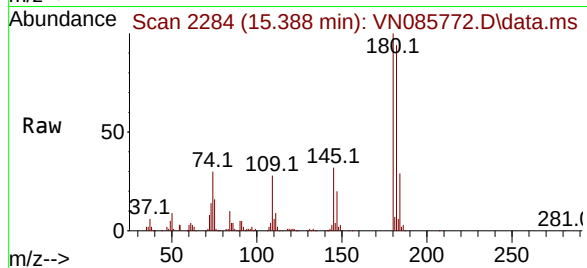
Acq: 18 Feb 2025 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion:180 Resp: 365599

Ion Ratio Lower Upper

180 100

182 94.2 47.3 141.9

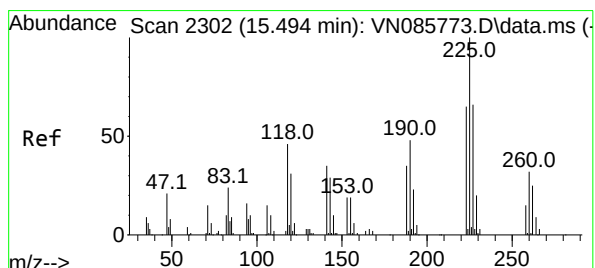
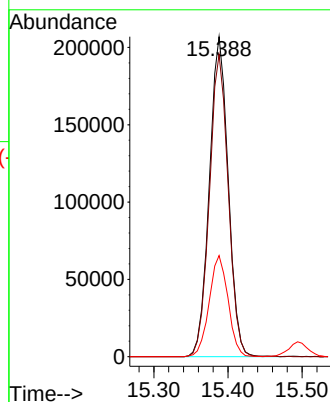
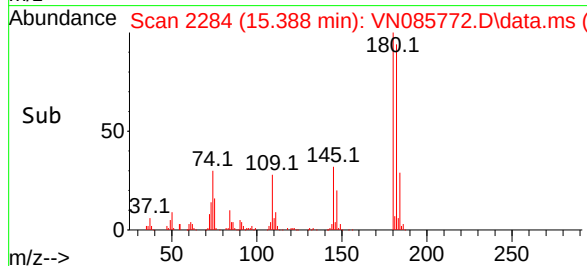
145 31.7 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

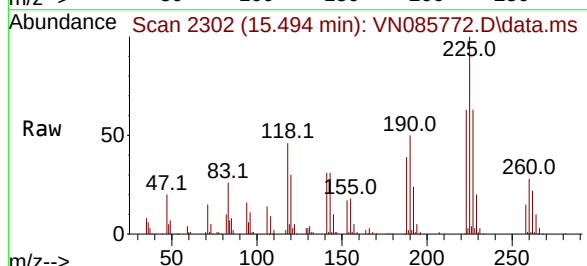
Concen: 90.068 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. 0.000 min

Lab File: VN085772.D

Acq: 18 Feb 2025 11:09



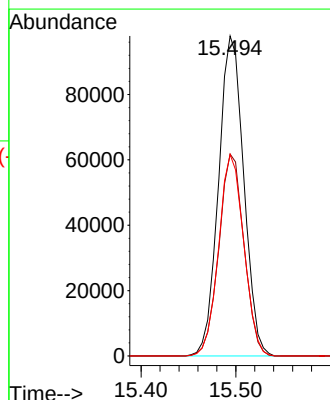
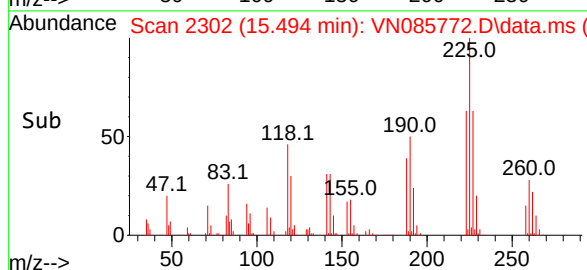
Tgt Ion:225 Resp: 181264

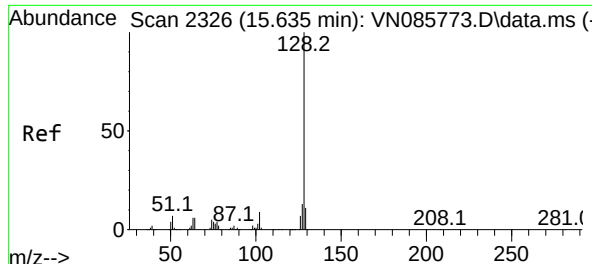
Ion Ratio Lower Upper

225 100

223 62.8 31.9 95.5

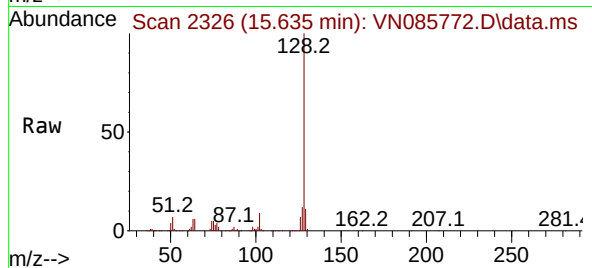
227 62.6 32.2 96.6





#95
Naphthalene
Concen: 115.870 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09

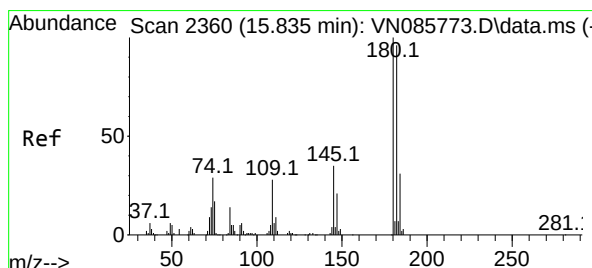
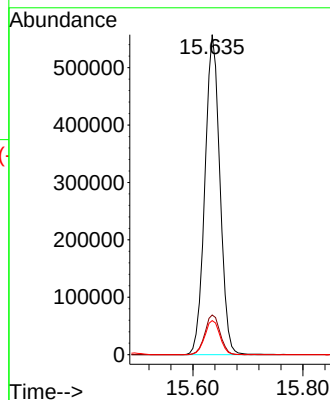
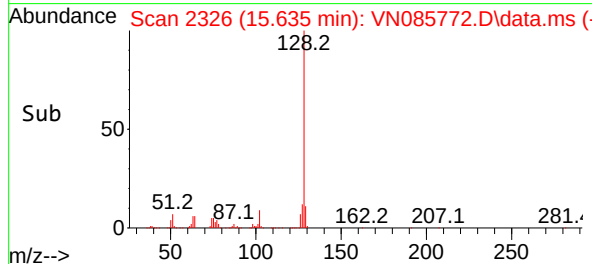
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



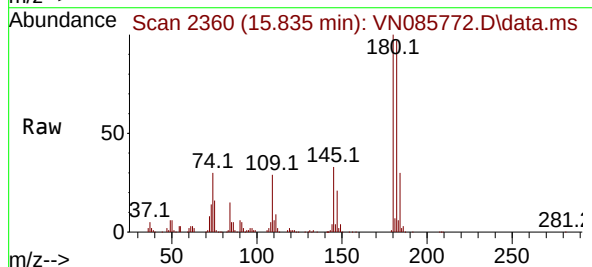
Tgt Ion:128 Resp: 1053414
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.8 8.7 13.1

Manual Integrations
APPROVED

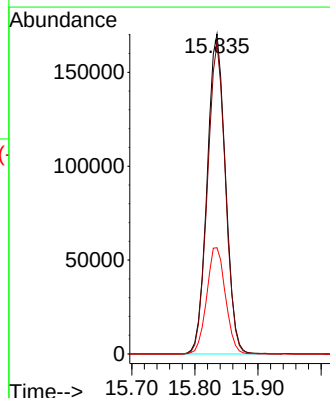
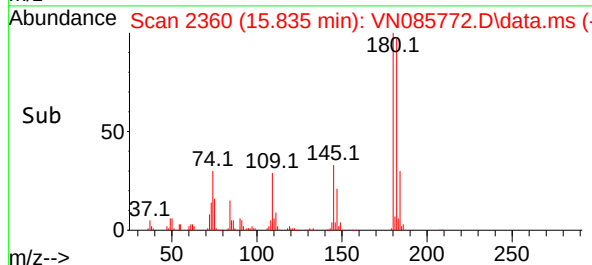
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 103.456 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085772.D
Acq: 18 Feb 2025 11:09



Tgt Ion:180 Resp: 343936
Ion Ratio Lower Upper
180 100
182 95.3 47.3 141.8
145 33.9 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	322407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	526945	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	461653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	227499	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	197726	47.304	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.600%
35) Dibromofluoromethane	8.159	113	167050	48.447	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.900%
50) Toluene-d8	10.559	98	632021	50.380	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.760%
62) 4-Bromofluorobenzene	12.841	95	220691	53.393	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.780%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	215740	49.195	ug/l	100
3) Chloromethane	2.359	50	200592	45.584	ug/l	100
4) Vinyl Chloride	2.512	62	218675	46.933	ug/l	100
5) Bromomethane	2.953	94	136563	45.838	ug/l	100
6) Chloroethane	3.124	64	134303	43.517	ug/l	100
7) Trichlorofluoromethane	3.501	101	309133	45.825	ug/l	100
8) Diethyl Ether	3.959	74	106634	48.854	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	181996	46.673	ug/l	100
10) Methyl Iodide	4.583	142	232889	48.452	ug/l	100
11) Tert butyl alcohol	5.506	59	126538	246.136	ug/l	100
12) 1,1-Dichloroethene	4.336	96	170063	48.100	ug/l	100
13) Acrolein	4.177	56	203891	267.442	ug/l	100
14) Allyl chloride	5.018	41	222754	47.986	ug/l	100
15) Acrylonitrile	5.712	53	394641	236.130	ug/l	100
16) Acetone	4.418	43	297175	224.691	ug/l	100
17) Carbon Disulfide	4.712	76	474860	45.317	ug/l	100
18) Methyl Acetate	5.018	43	199458	43.846	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	534589	50.883	ug/l	100
20) Methylene Chloride	5.271	84	191098	44.929	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	176973	46.486	ug/l	100
22) Diisopropyl ether	6.665	45	529828	50.512	ug/l	100
23) Vinyl Acetate	6.594	43	1802342	251.727	ug/l	100
24) 1,1-Dichloroethane	6.565	63	333567	46.781	ug/l	100
25) 2-Butanone	7.471	43	474562	243.893	ug/l	100
26) 2,2-Dichloropropane	7.483	77	304840	48.079	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	213235	48.306	ug/l	100
28) Bromochloromethane	7.806	49	143276	48.888	ug/l	100
29) Tetrahydrofuran	7.830	42	315243	250.894	ug/l	100
30) Chloroform	7.959	83	344841	46.278	ug/l	100
31) Cyclohexane	8.253	56	277254	46.440	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	311700	47.030	ug/l	100
36) 1,1-Dichloropropene	8.365	75	242144	49.620	ug/l	100
37) Ethyl Acetate	7.553	43	197609	49.206	ug/l	100
38) Carbon Tetrachloride	8.353	117	278306	47.997	ug/l	100
39) Methylcyclohexane	9.594	83	259289	54.085	ug/l	100
40) Benzene	8.600	78	759363	48.551	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
 Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	113568	52.901	ug/l	100
42) 1,2-Dichloroethane	8.665	62	240115	47.132	ug/l	100
43) Isopropyl Acetate	8.683	43	335482	47.574	ug/l	100
44) Trichloroethene	9.347	130	178742	46.544	ug/l	100
45) 1,2-Dichloropropane	9.618	63	182649	48.379	ug/l	100
46) Dibromomethane	9.700	93	127850	48.010	ug/l	100
47) Bromodichloromethane	9.882	83	272912	47.901	ug/l	100
48) Methyl methacrylate	9.677	41	158375	53.102	ug/l	100
49) 1,4-Dioxane	9.688	88	60759	1071.301	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	997906	257.731	ug/l	100
52) Toluene	10.624	92	475069	51.816	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	274791	52.159	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	298359	51.646	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	174198	47.788	ug/l	100
56) Ethyl methacrylate	10.871	69	261825	49.960	ug/l	100
57) 1,3-Dichloropropane	11.159	76	297683	48.920	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	458983	230.774	ug/l	100
59) 2-Hexanone	11.188	43	719870	270.257	ug/l	100
60) Dibromochloromethane	11.353	129	211769	49.890	ug/l	100
61) 1,2-Dibromoethane	11.465	107	169422	49.191	ug/l	100
64) Tetrachloroethene	11.100	164	166710	46.613	ug/l	100
65) Chlorobenzene	11.882	112	512436	48.454	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	182537	48.020	ug/l	100
67) Ethyl Benzene	11.959	91	879040	53.062	ug/l	100
68) m/p-Xylenes	12.065	106	684377	108.757	ug/l	100
69) o-Xylene	12.394	106	324948	54.342	ug/l	100
70) Styrene	12.406	104	555269	49.909	ug/l	100
71) Bromoform	12.570	173	139895	49.528	ug/l #	100
73) Isopropylbenzene	12.688	105	817980	52.482	ug/l	100
74) N-amyl acetate	12.488	43	282288	51.360	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	239463	44.649	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	215451m	43.108	ug/l	100
77) Bromobenzene	12.976	156	205754	48.863	ug/l	100
78) n-propylbenzene	13.029	91	968182	54.241	ug/l	100
79) 2-Chlorotoluene	13.118	91	595046	49.895	ug/l	100
80) 1,3,5-Trimethylbenzene	13.165	105	695205	54.757	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	90255	52.111	ug/l	100
82) 4-Chlorotoluene	13.218	91	604612	51.139	ug/l	100
83) tert-Butylbenzene	13.435	119	586493	54.933	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	700260	55.748	ug/l	100
85) sec-Butylbenzene	13.612	105	831143	55.099	ug/l	100
86) p-Isopropyltoluene	13.723	119	692641	50.103	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	372004	47.154	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	374700	46.340	ug/l	100
89) n-Butylbenzene	14.053	91	580445	54.197	ug/l	100
90) Hexachloroethane	14.329	117	133438	46.708	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	358159	47.211	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.712	75	43935	44.611	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	182458	50.473	ug/l	100
94) Hexachlorobutadiene	15.494	225	96444	43.899	ug/l	100
95) Naphthalene	15.635	128	528627	53.265	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	179544	49.473	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085773.D
Acq On : 18 Feb 2025 11:32
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:16:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085773.D
 Acq On : 18 Feb 2025 11:32
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Quant Time: Feb 19 03:16:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

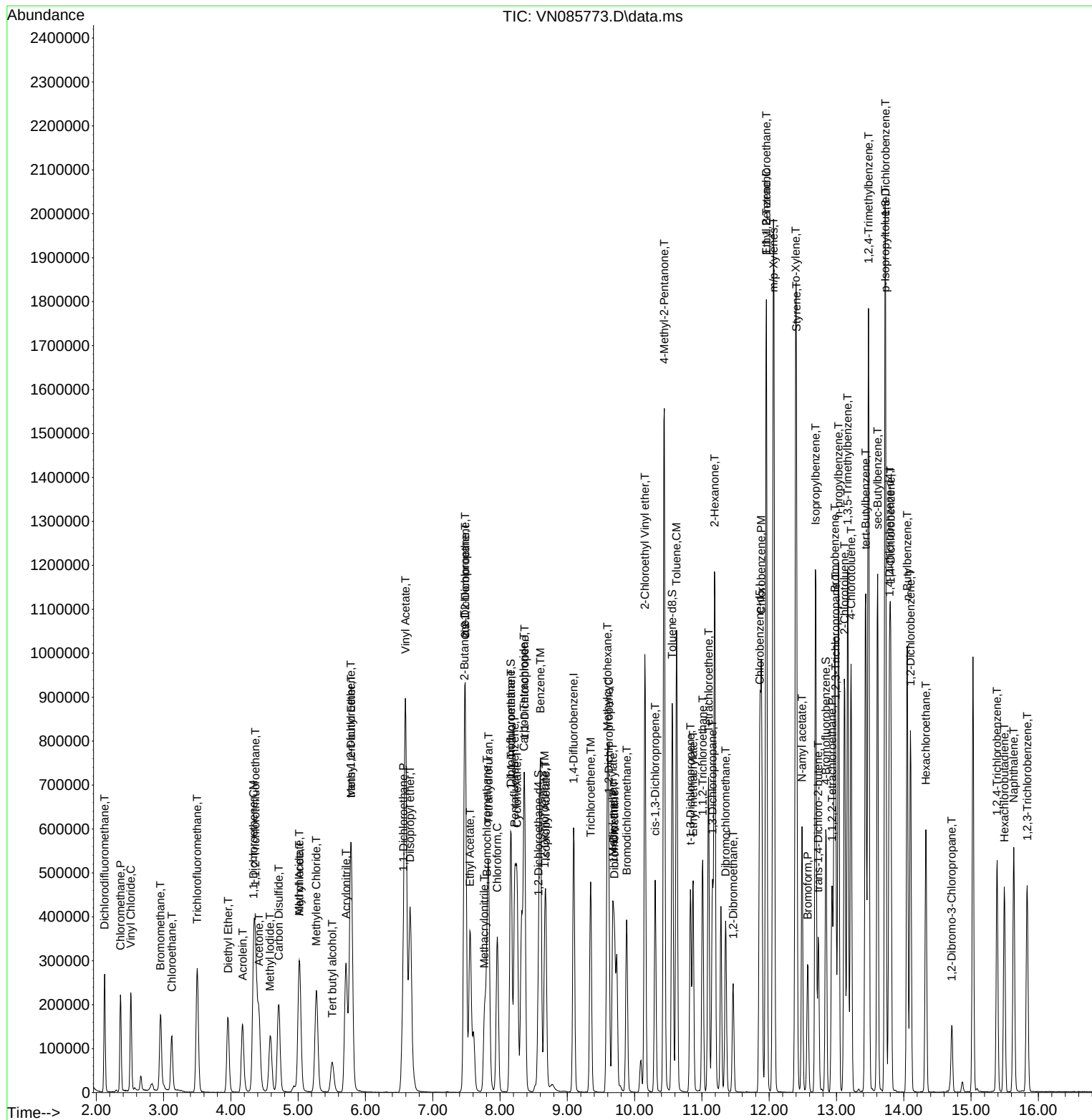
Response via : Initial Calibration

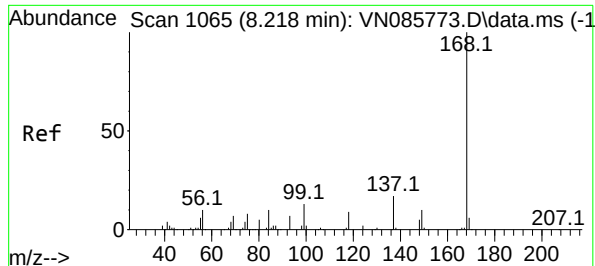
Manual Integrations

APPROVED

Reviewed By : John Carlone 02/19/2025

Supervised By : Mahesh Dadoda 02/19/2025





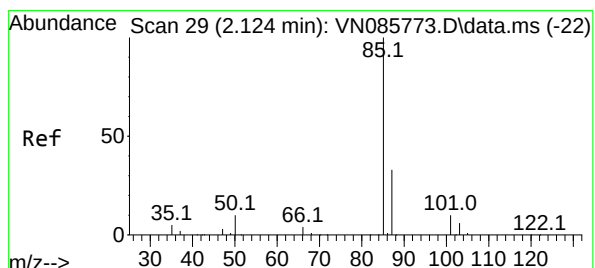
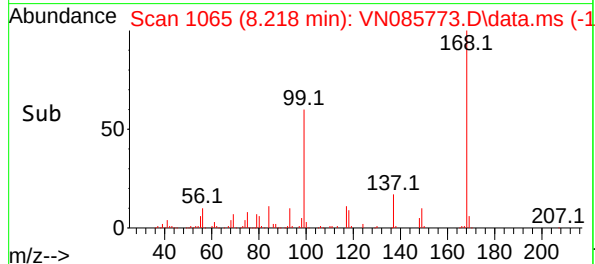
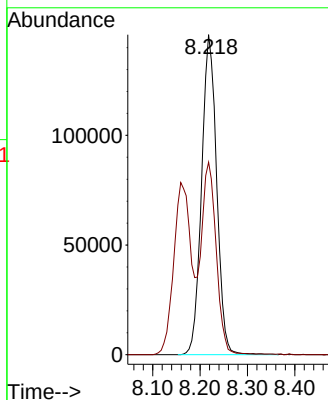
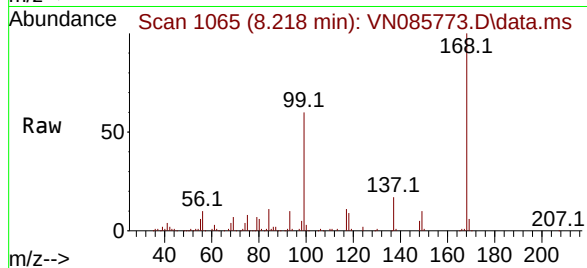
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 32240
Ion Ratio Lower Upper
168 100
99 59.9 47.9 71.9

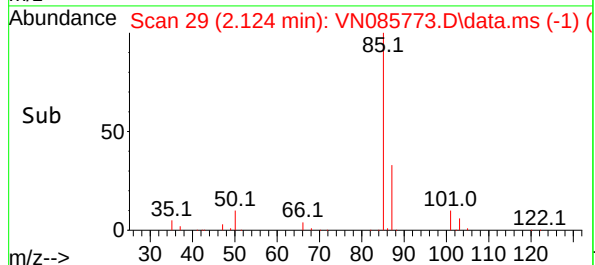
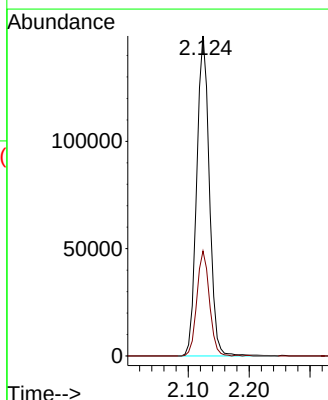
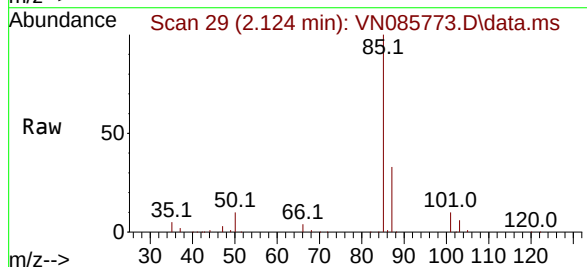
Manual Integrations
APPROVED

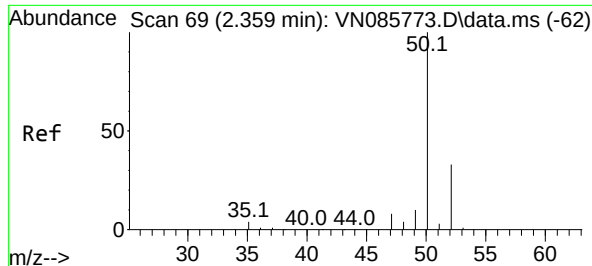
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 49.195 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 85 Resp: 215740
Ion Ratio Lower Upper
85 100
87 32.8 16.4 49.2





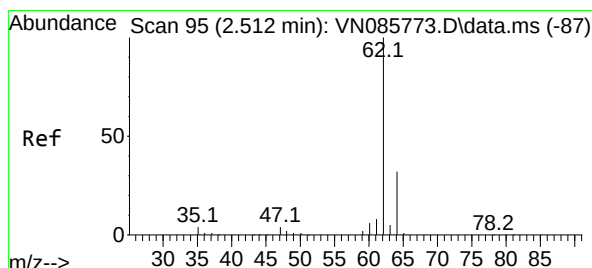
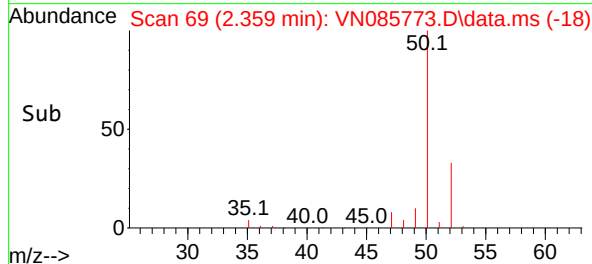
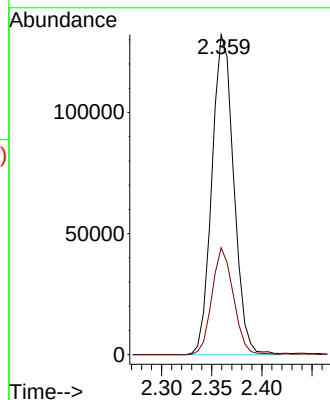
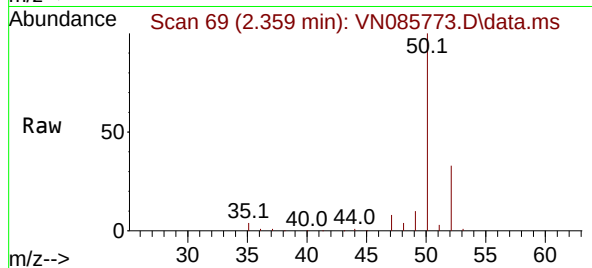
#3
Chloromethane
Concen: 45.584 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 200592
Ion Ratio Lower Upper
50 100
52 33.4 26.7 40.1

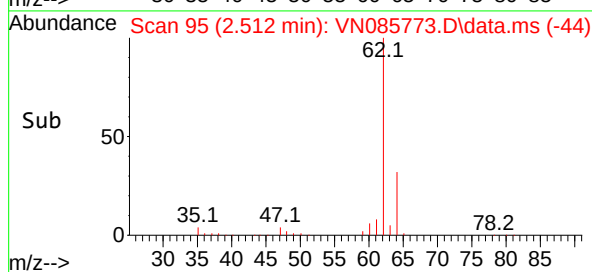
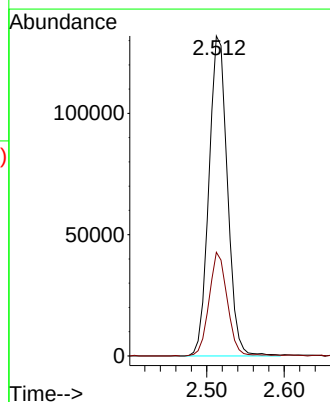
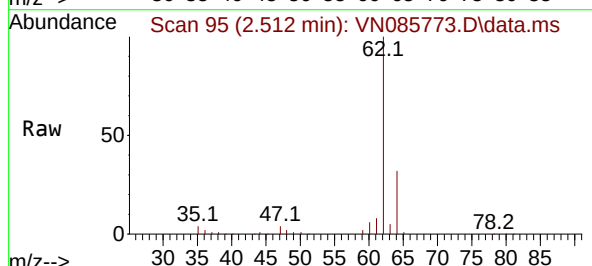
Manual Integrations
APPROVED

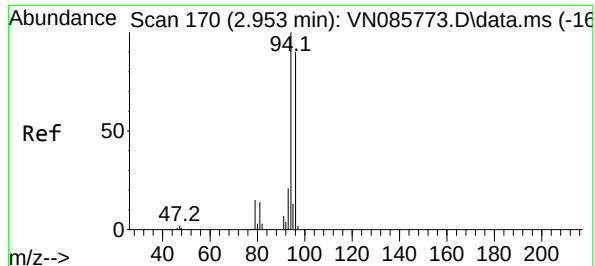
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#4
Vinyl Chloride
Concen: 46.933 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

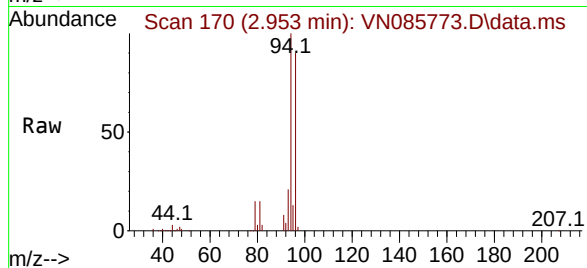
Tgt Ion: 62 Resp: 218675
Ion Ratio Lower Upper
62 100
64 32.4 25.9 38.9





#5
Bromomethane
Concen: 45.838 ug/l
RT: 2.953 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

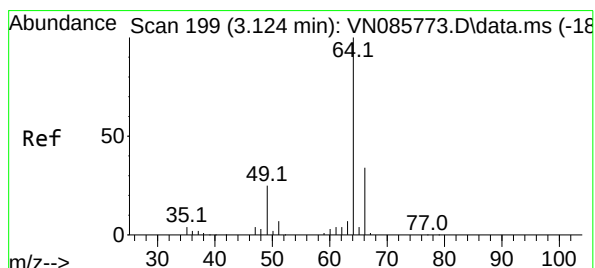
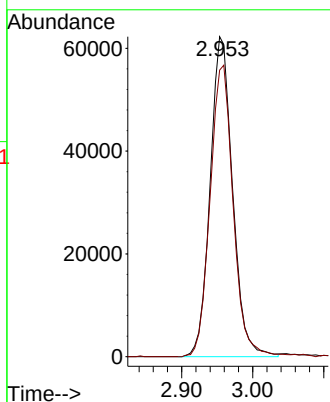
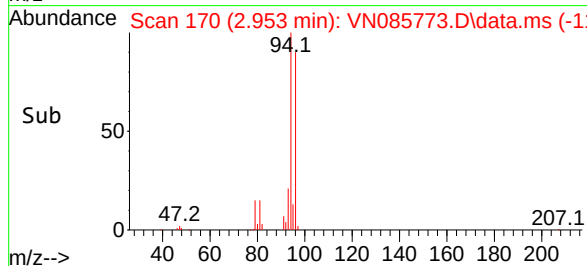
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 94 Resp: 13656
Ion Ratio Lower Upper
94 100
96 89.6 71.7 107.5

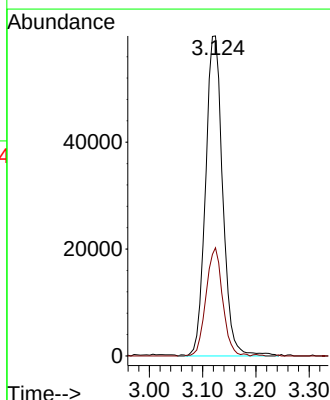
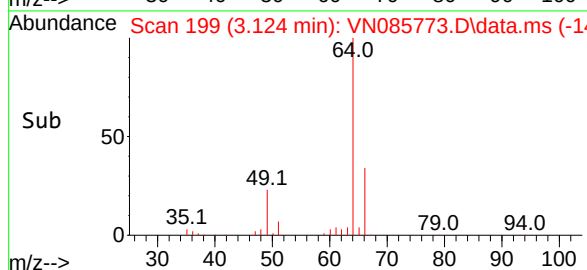
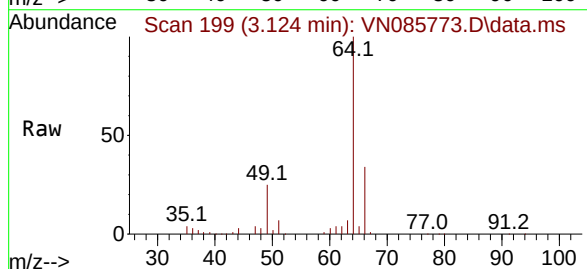
Manual Integrations
APPROVED

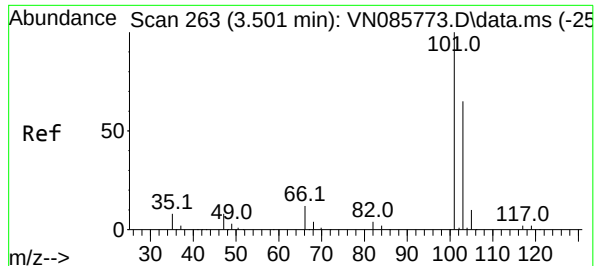
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#6
Chloroethane
Concen: 43.517 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 64 Resp: 134303
Ion Ratio Lower Upper
64 100
66 33.8 27.0 40.6





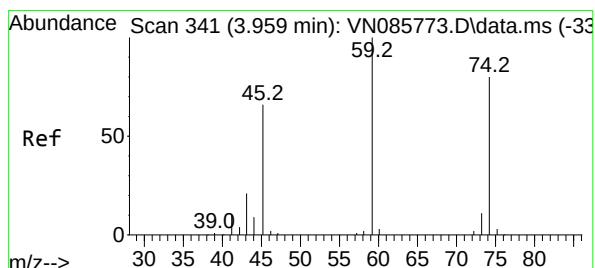
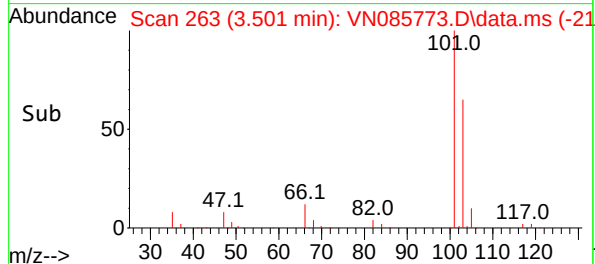
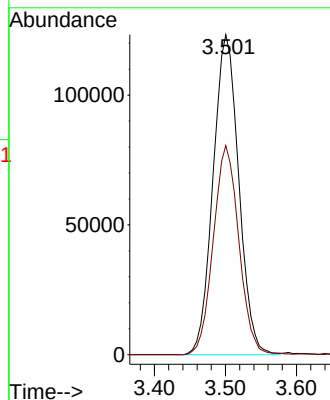
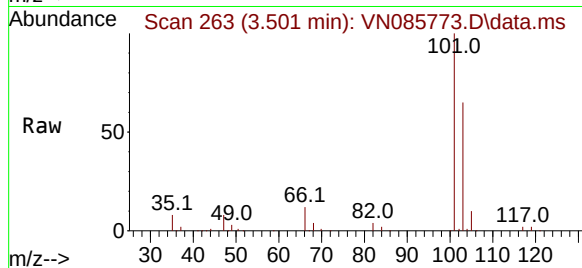
#7
Trichlorofluoromethane
Concen: 45.825 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 30913
Ion Ratio Lower Upper
101 100
103 65.3 52.2 78.4

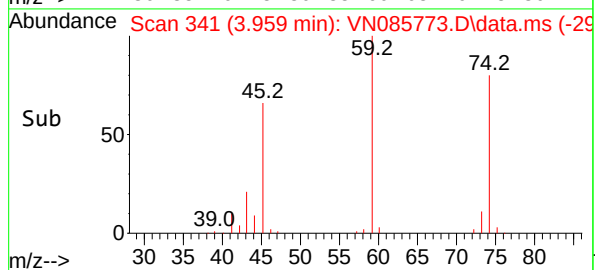
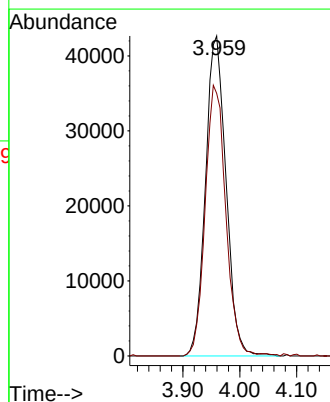
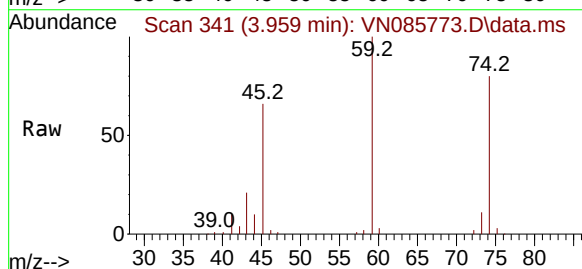
Manual Integrations
APPROVED

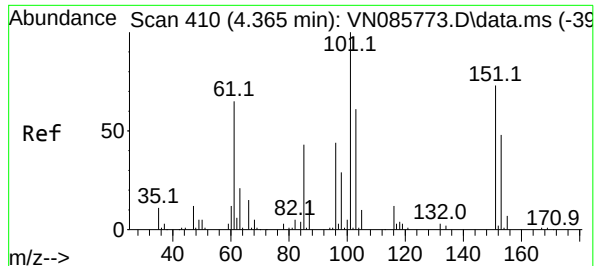
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#8
Diethyl Ether
Concen: 48.854 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 74 Resp: 106634
Ion Ratio Lower Upper
74 100
45 85.1 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.673 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

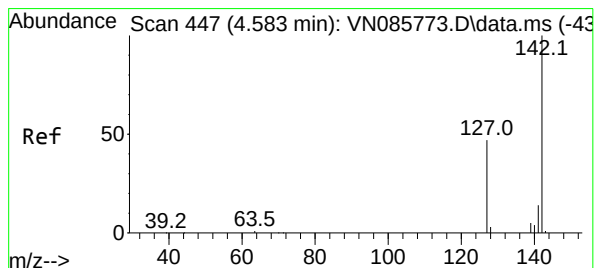
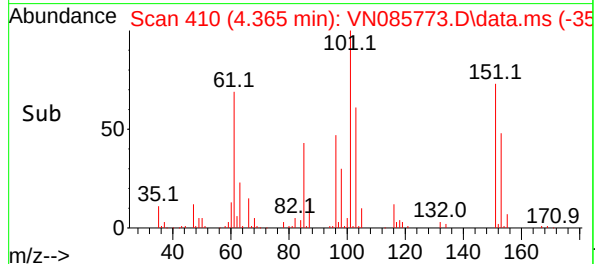
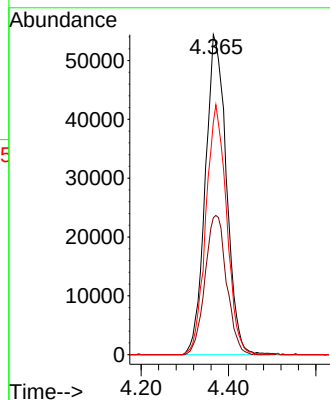
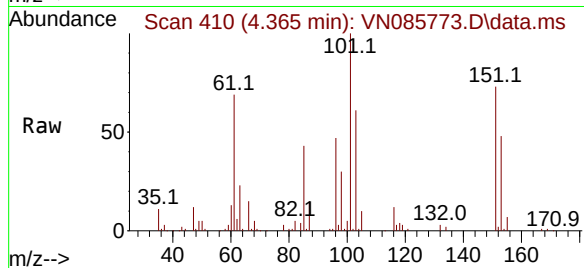
Tgt Ion:101	Resp: 181990
Ion Ratio	Lower Upper
101 100	
85 44.6	35.7 53.5
151 76.8	61.4 92.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#10

Methyl Iodide

Concen: 48.452 ug/l

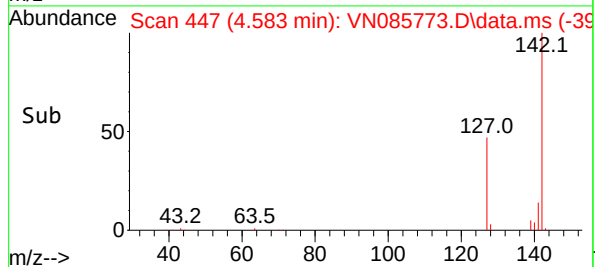
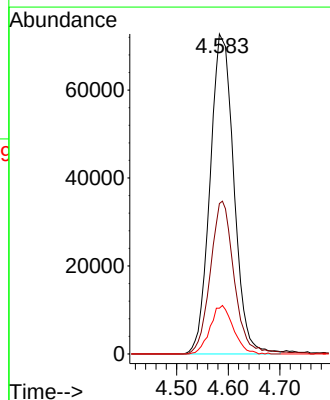
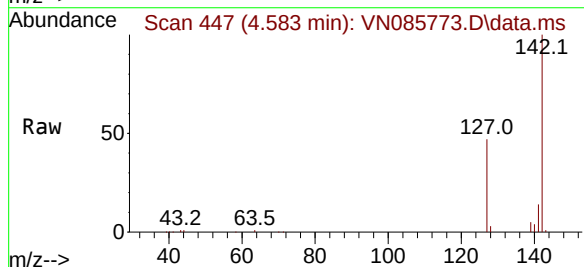
RT: 4.583 min Scan# 447

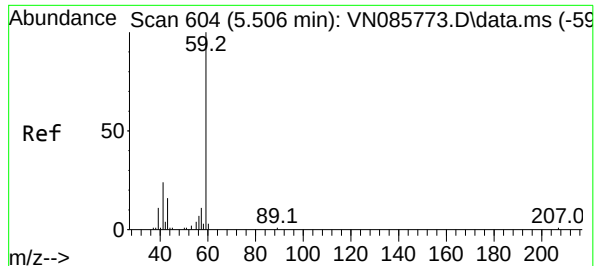
Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Tgt Ion:142	Resp: 232889
Ion Ratio	Lower Upper
142 100	
127 47.0	37.6 56.4
141 14.3	11.4 17.2





#11

Tert butyl alcohol

Concen: 246.136 ug/l

RT: 5.506 min Scan# 604

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 126538

Ion Ratio Lower Upper

59 100

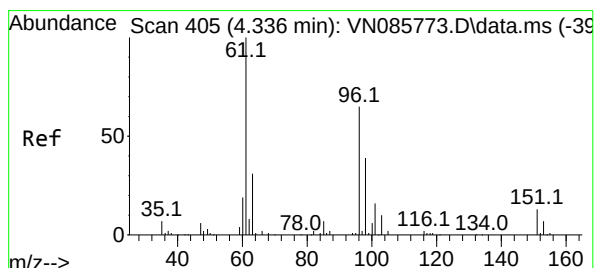
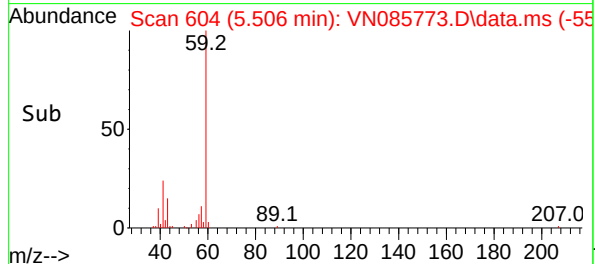
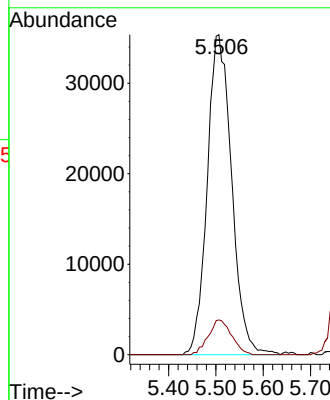
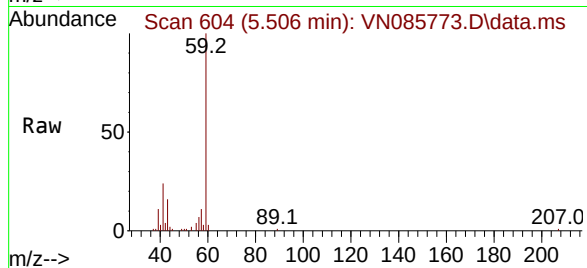
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#12

1,1-Dichloroethene

Concen: 48.100 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

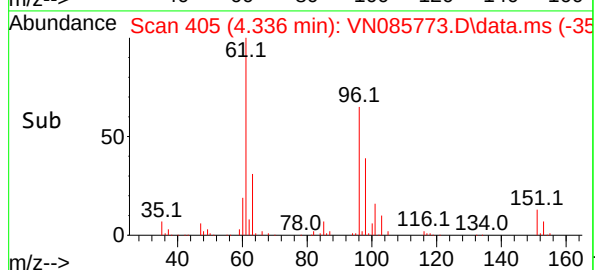
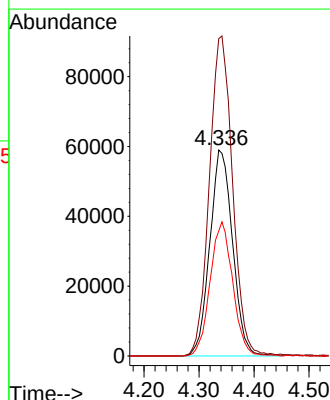
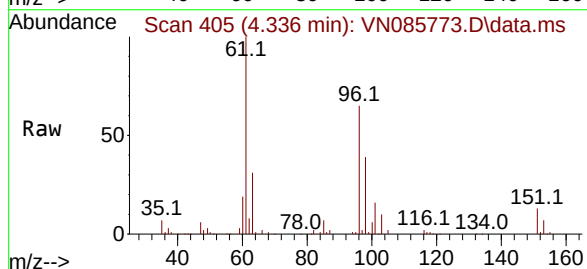
Tgt Ion: 96 Resp: 170063

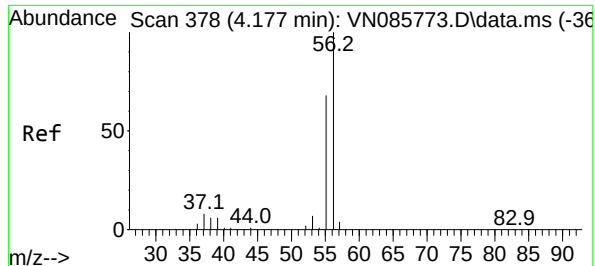
Ion Ratio Lower Upper

96 100

61 154.1 123.3 184.9

98 60.7 48.6 72.8





#13

Acrolein

Concen: 267.442 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 20389

Ion Ratio Lower Upper

56 100

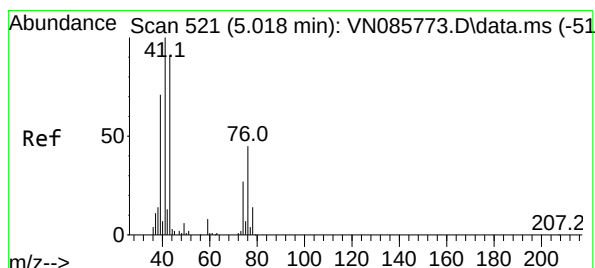
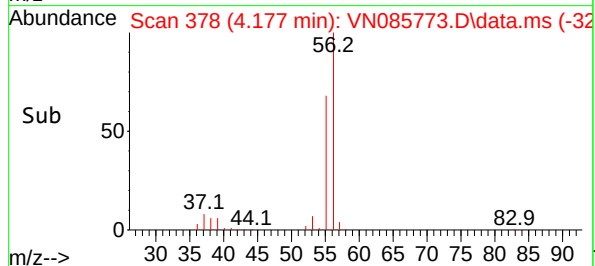
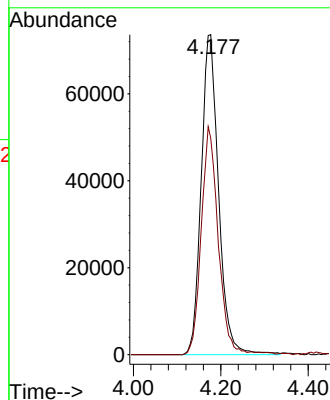
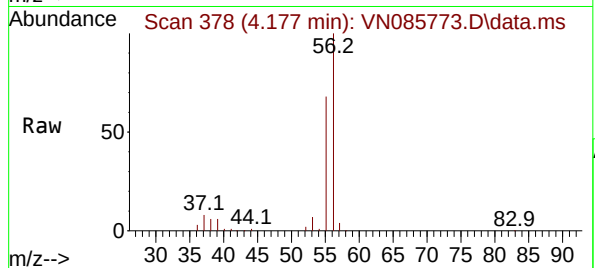
55 69.1 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 47.986 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

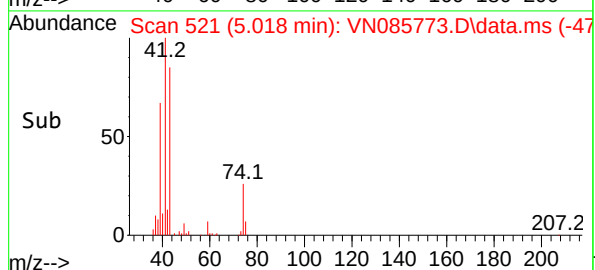
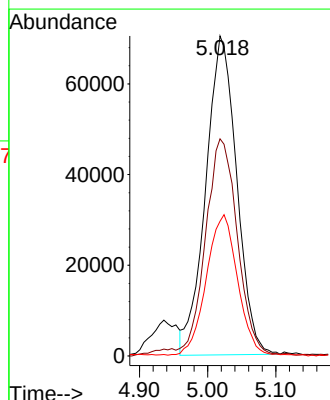
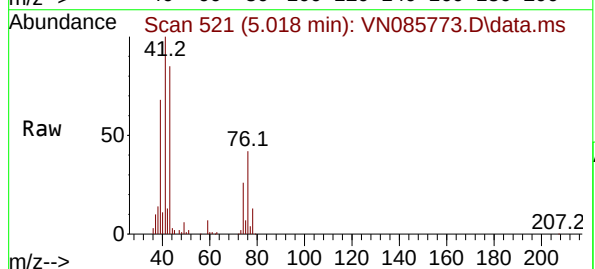
Tgt Ion: 41 Resp: 222754

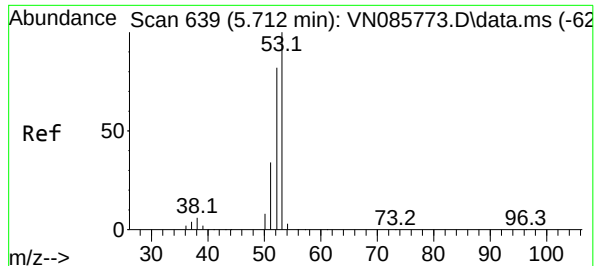
Ion Ratio Lower Upper

41 100

39 71.8 57.4 86.2

76 45.2 36.2 54.2





#15

Acrylonitrile

Concen: 236.130 ug/l

RT: 5.712 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 39464

Ion Ratio Lower Upper

53 100

52 82.2 65.8 98.6

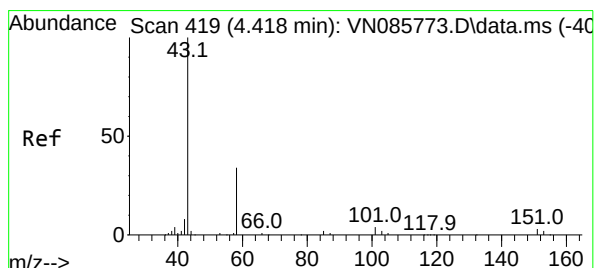
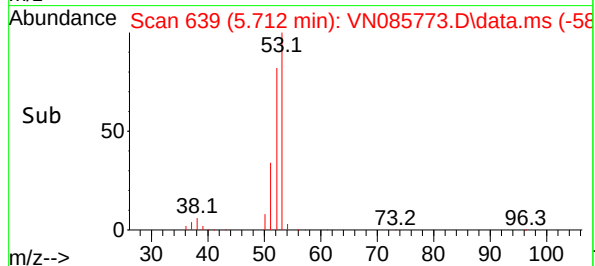
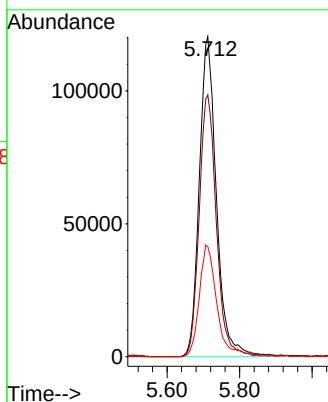
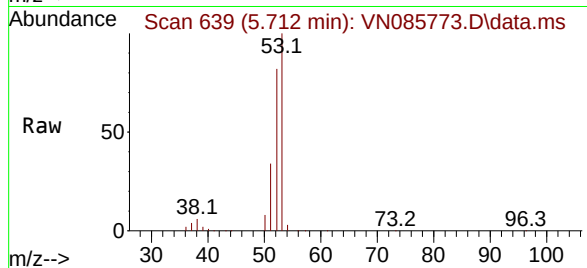
51 35.7 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#16

Acetone

Concen: 224.691 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN085773.D

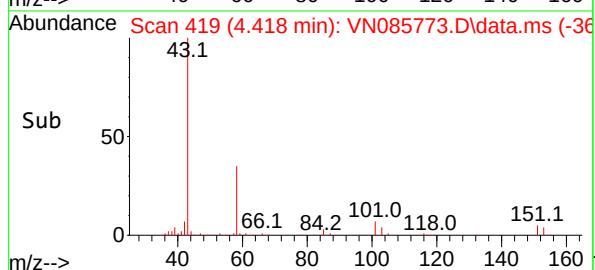
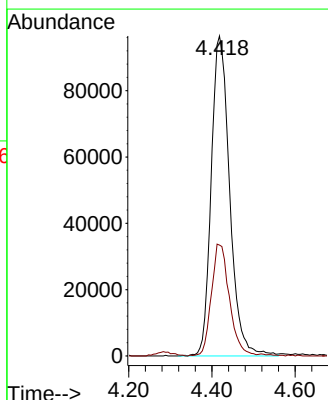
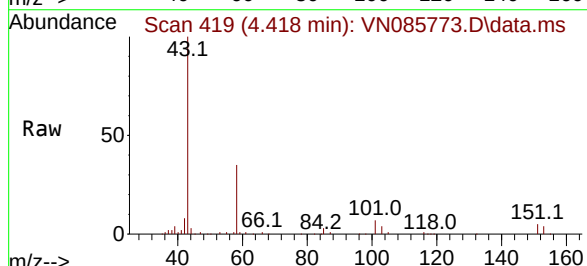
Acq: 18 Feb 2025 11:32

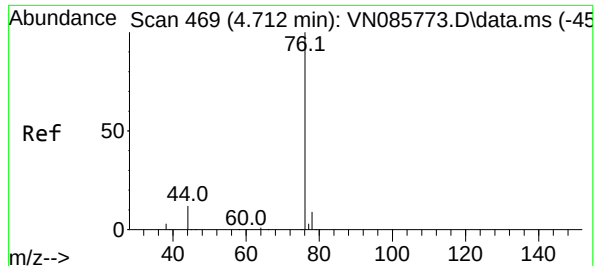
Tgt Ion: 43 Resp: 297175

Ion Ratio Lower Upper

43 100

58 34.4 27.5 41.3





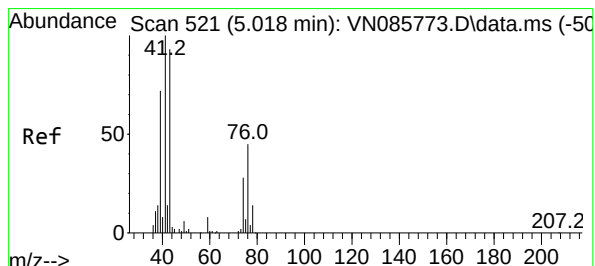
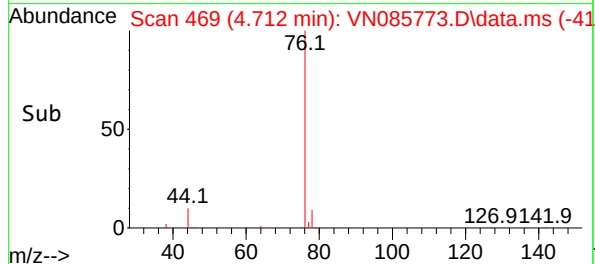
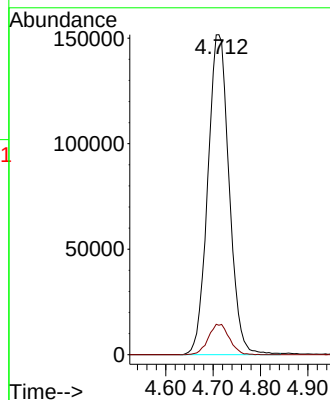
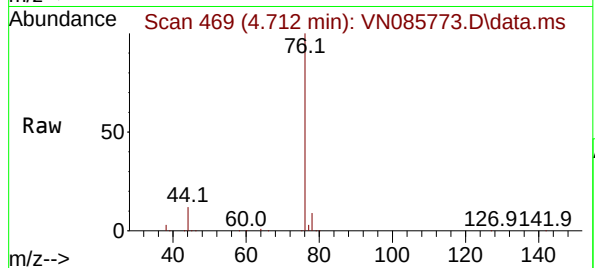
#17
Carbon Disulfide
Concen: 45.317 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 474860
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0

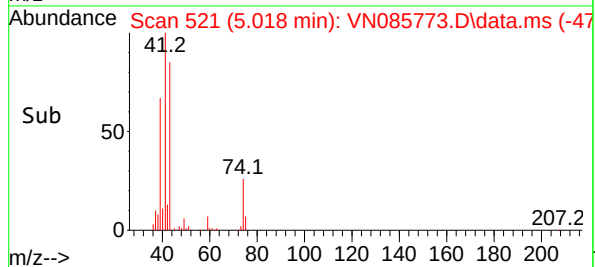
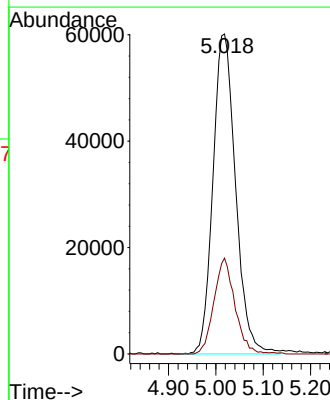
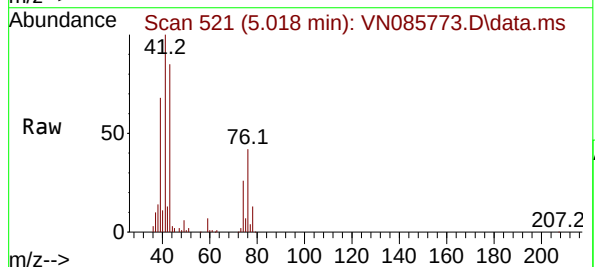
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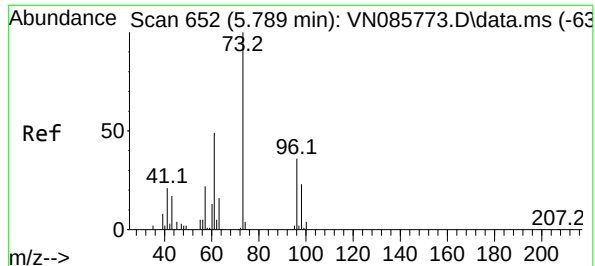
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#18
Methyl Acetate
Concen: 43.846 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 43 Resp: 199458
Ion Ratio Lower Upper
43 100
74 27.8 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 50.883 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 534589

Ion Ratio Lower Upper

73 100

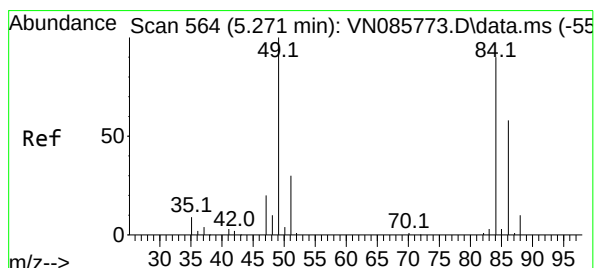
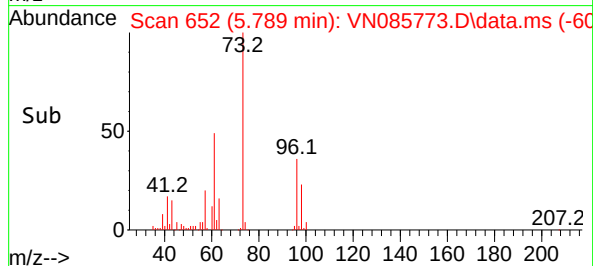
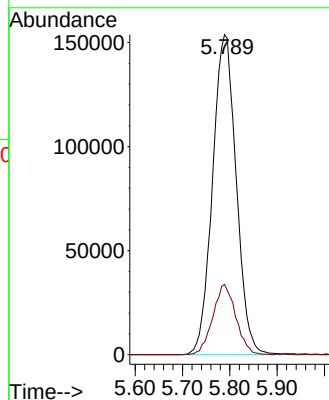
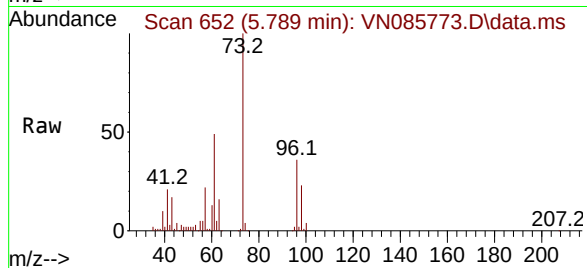
57 22.0 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#20

Methylene Chloride

Concen: 44.929 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Tgt Ion: 84 Resp: 191098

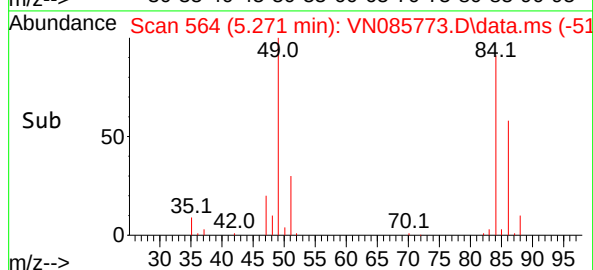
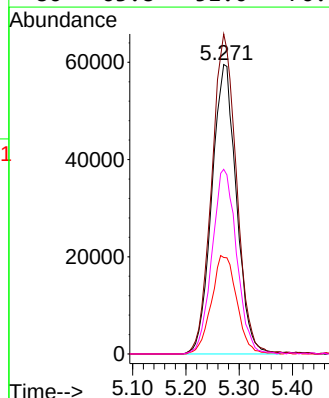
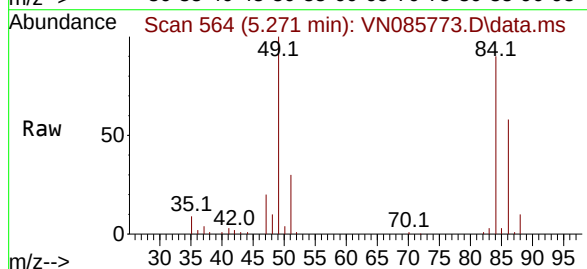
Ion Ratio Lower Upper

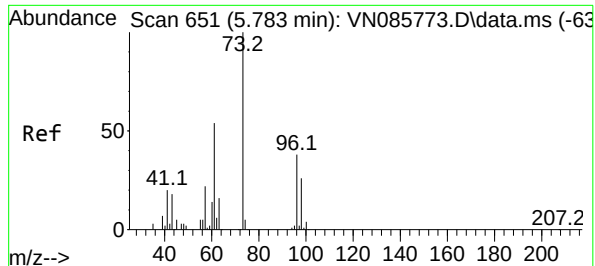
84 100

49 110.5 88.4 132.6

51 33.3 26.6 40.0

86 63.8 51.0 76.6





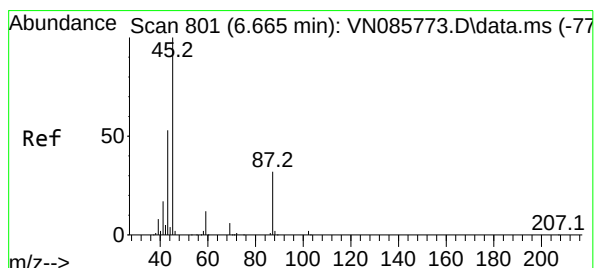
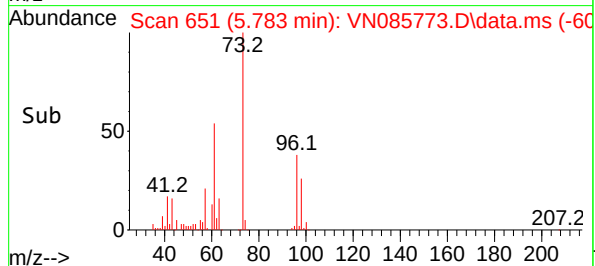
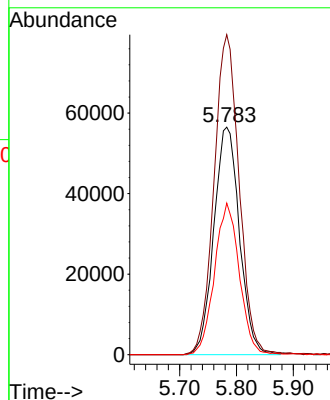
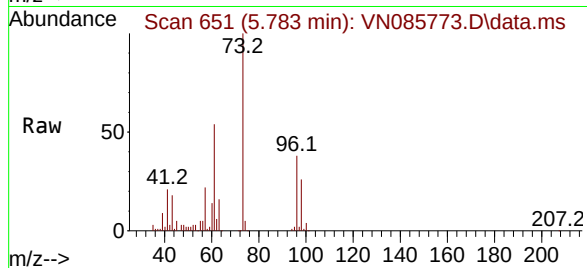
#21
trans-1,2-Dichloroethene
Concen: 46.486 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 17697
Ion Ratio Lower Upper
96 100
61 140.7 112.6 168.8
98 66.6 53.3 79.9

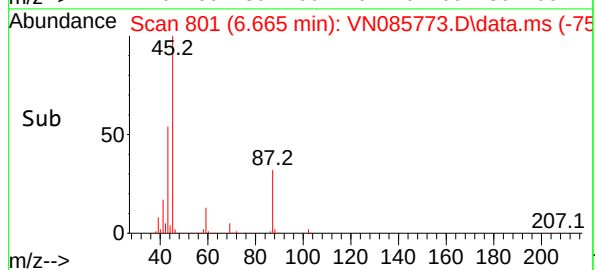
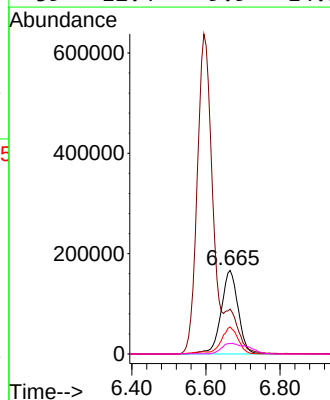
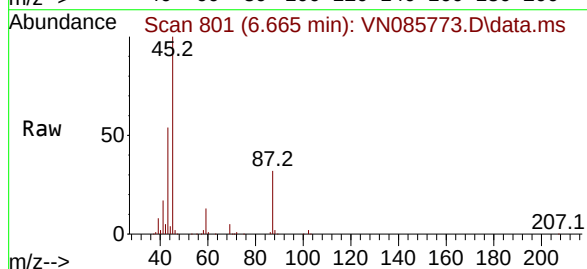
Manual Integrations
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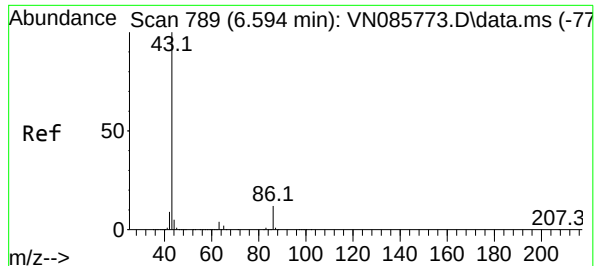
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 50.512 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 45 Resp: 529828
Ion Ratio Lower Upper
45 100
43 53.3 42.6 64.0
87 32.3 25.8 38.8
59 12.4 9.9 14.9





#23

Vinyl Acetate

Concen: 251.727 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 180234

Ion Ratio Lower Upper

43

100

86

12.3

9.8

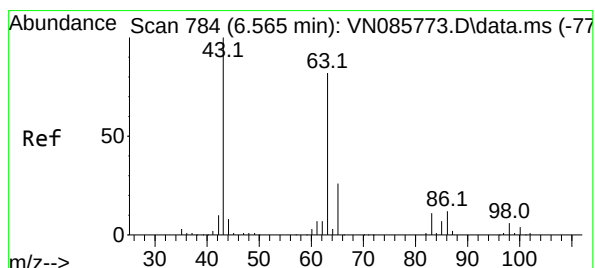
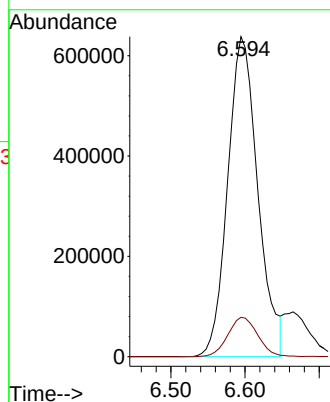
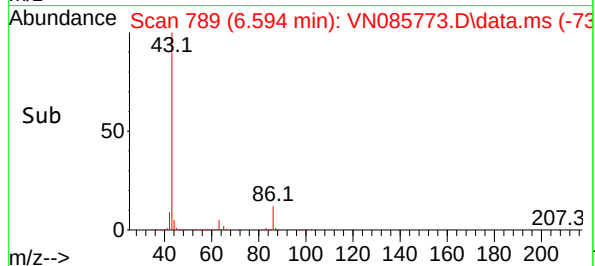
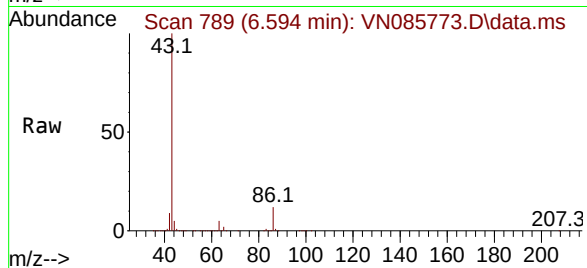
14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#24

1,1-Dichloroethane

Concen: 46.781 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Tgt Ion: 63 Resp: 333567

Ion Ratio Lower Upper

63

100

98

6.9

3.5

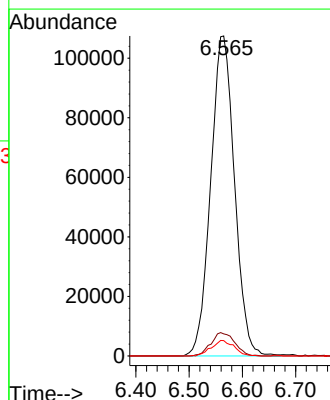
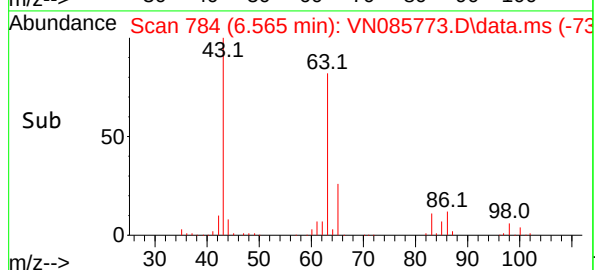
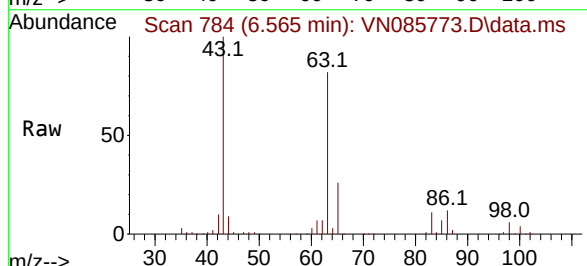
10.4

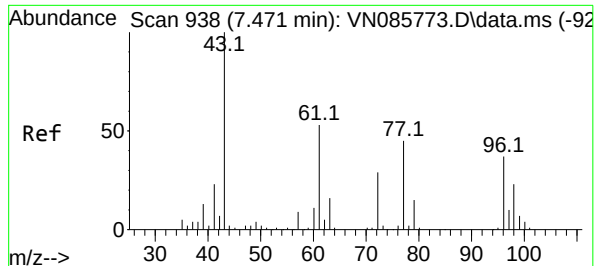
100

4.8

2.4

7.2





#25

2-Butanone

Concen: 243.893 ug/l

RT: 7.471 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 47456

Ion Ratio Lower Upper

43 100

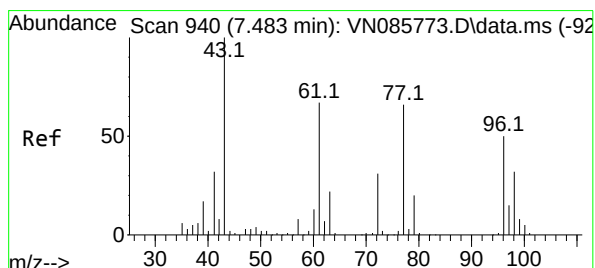
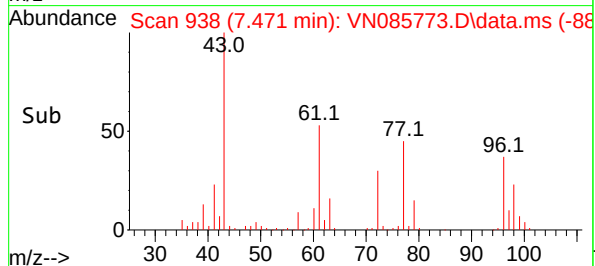
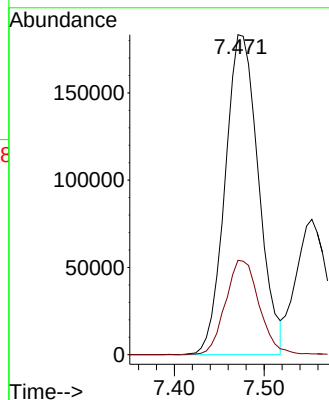
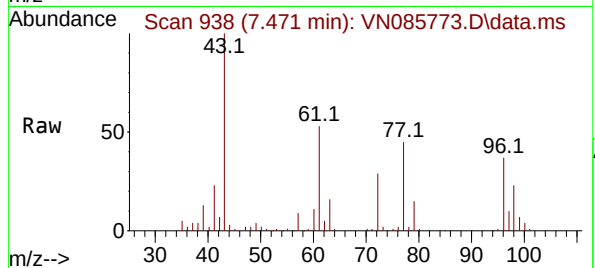
72 29.5 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#26

2,2-Dichloropropane

Concen: 48.079 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085773.D

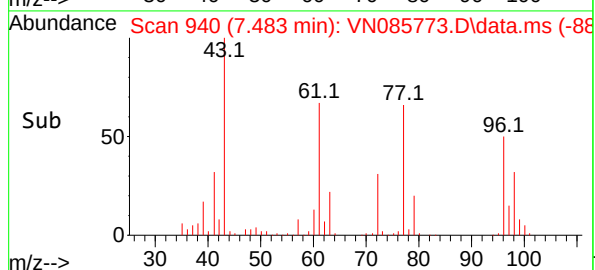
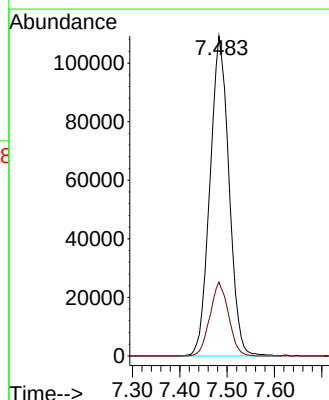
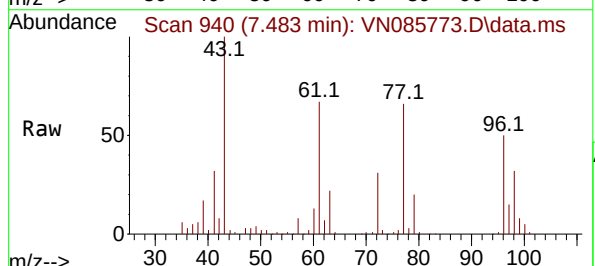
Acq: 18 Feb 2025 11:32

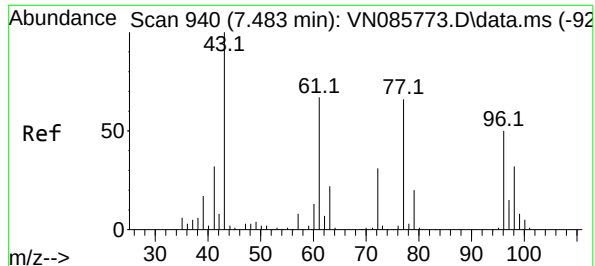
Tgt Ion: 77 Resp: 304840

Ion Ratio Lower Upper

77 100

97 22.5 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 48.306 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 21323

Ion Ratio Lower Upper

96 100

61 140.3 0.0 280.6

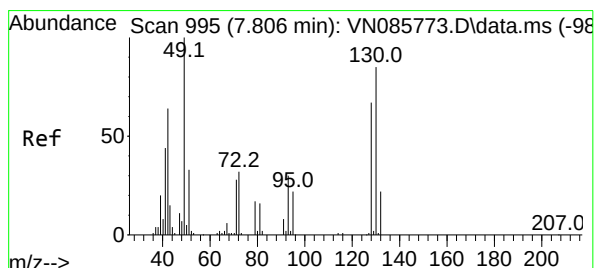
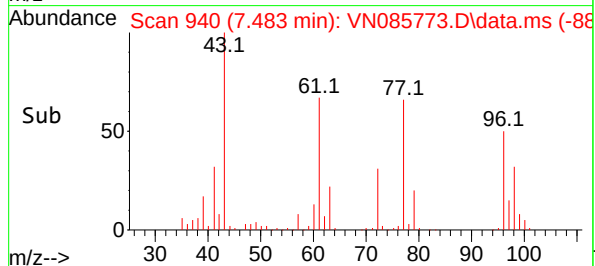
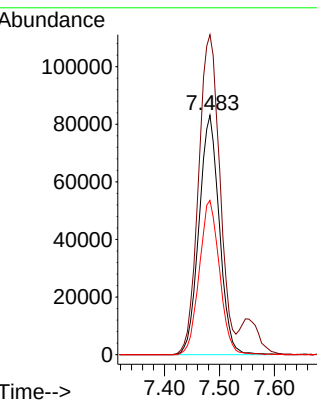
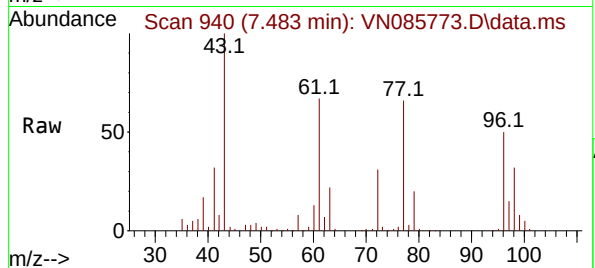
98 64.3 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 48.888 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

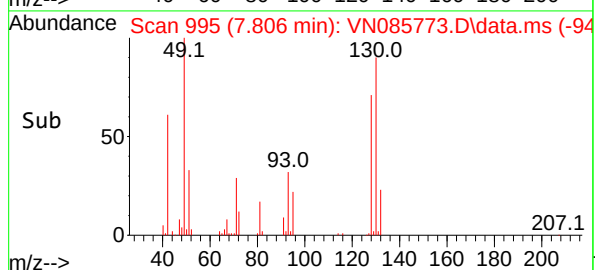
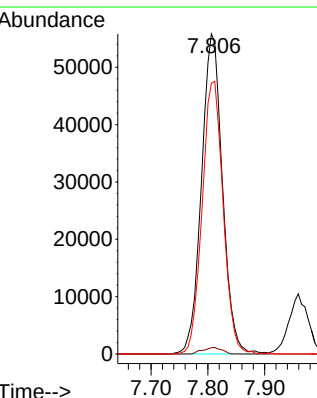
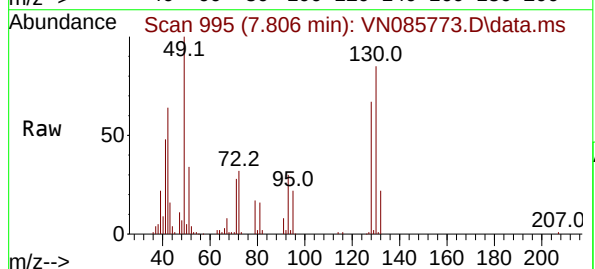
Tgt Ion: 49 Resp: 143276

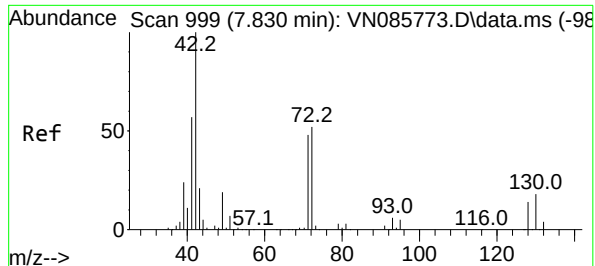
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.8

130 85.0 68.0 102.0





#29

Tetrahydrofuran

Concen: 250.894 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 31524

Ion Ratio Lower Upper

42 100

72 50.0 40.0 60.0

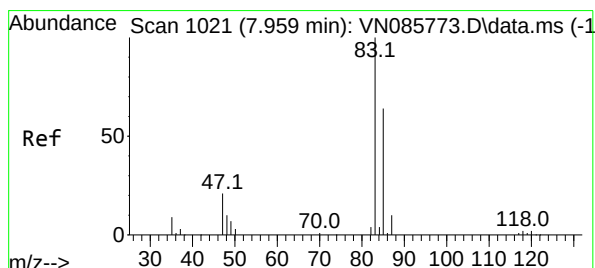
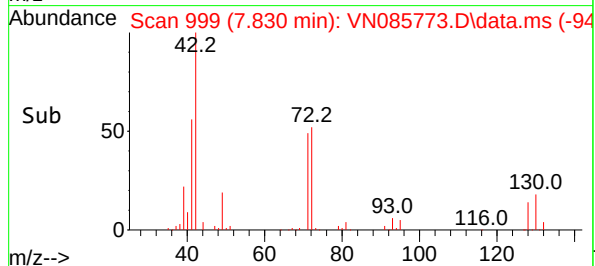
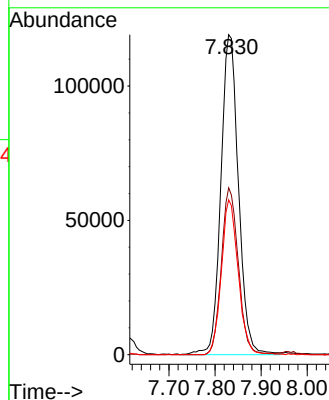
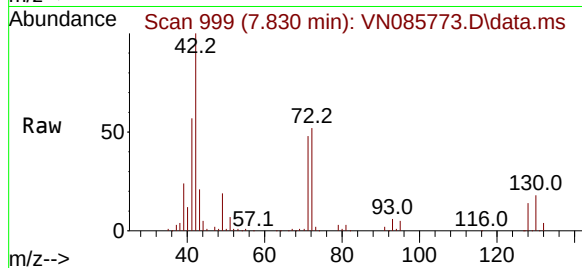
71 46.2 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 46.278 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085773.D

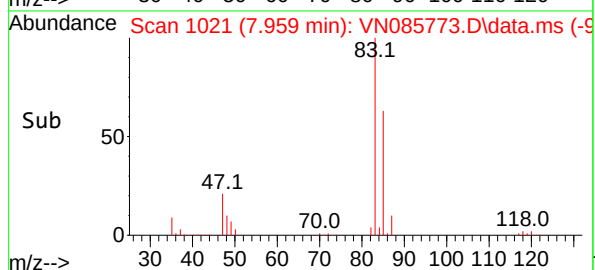
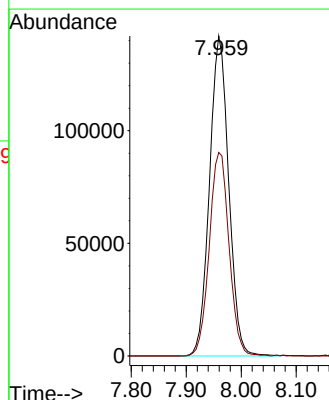
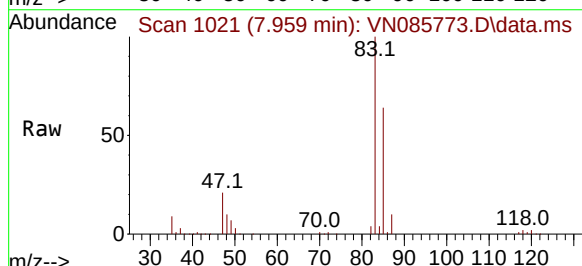
Acq: 18 Feb 2025 11:32

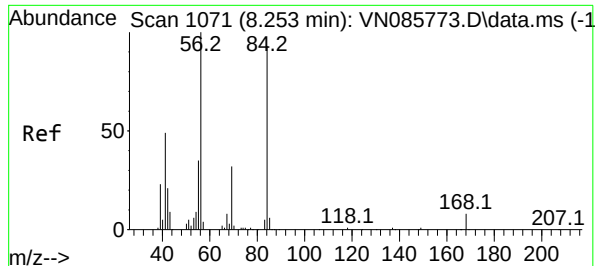
Tgt Ion: 83 Resp: 344841

Ion Ratio Lower Upper

83 100

85 63.6 50.9 76.3





#31

Cyclohexane

Concen: 46.440 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 277254

Ion Ratio Lower Upper

56 100

69 32.2 25.8 38.6

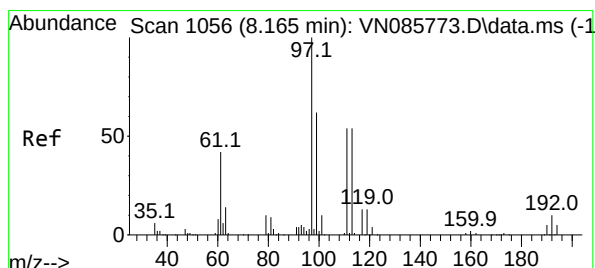
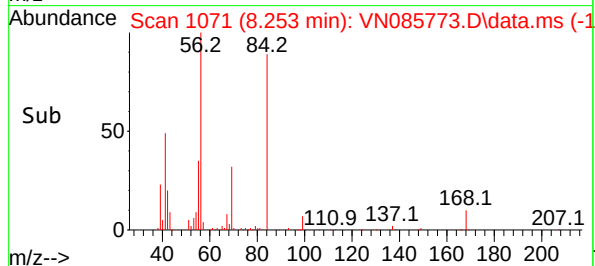
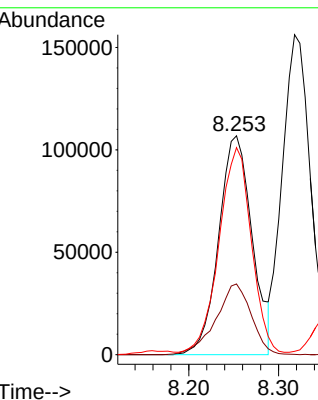
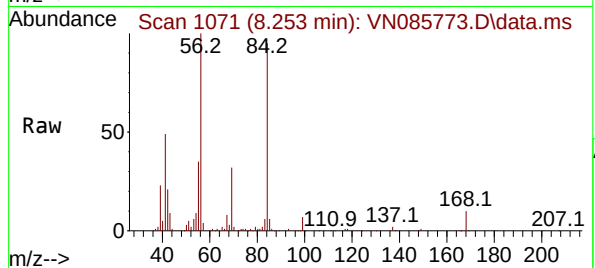
84 93.1 74.5 111.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#32

1,1,1-Trichloroethane

Concen: 47.030 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

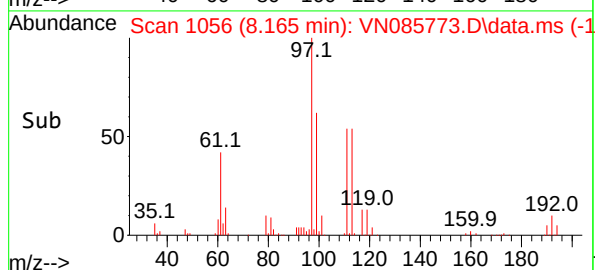
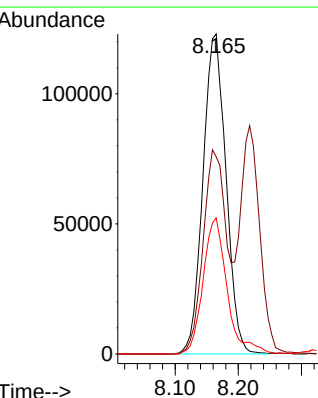
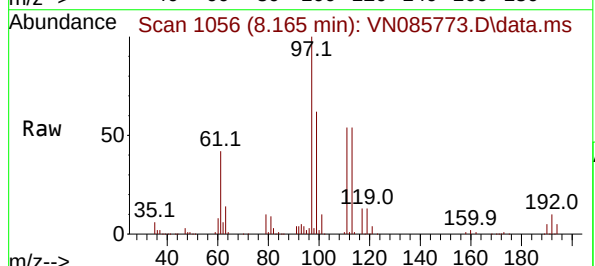
Tgt Ion: 97 Resp: 311700

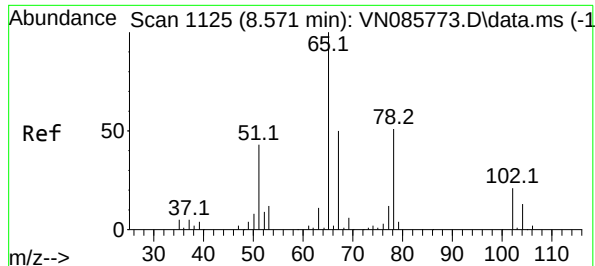
Ion Ratio Lower Upper

97 100

99 63.0 50.4 75.6

61 44.4 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 47.304 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 197720

Ion Ratio Lower Upper

65 100

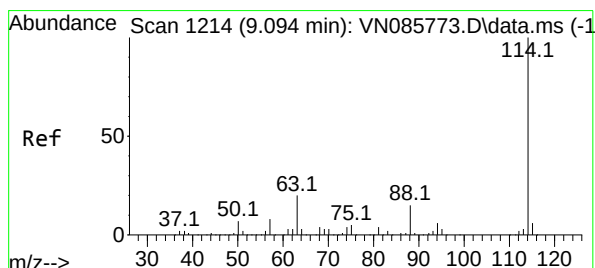
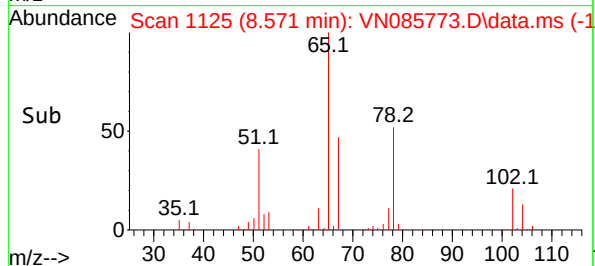
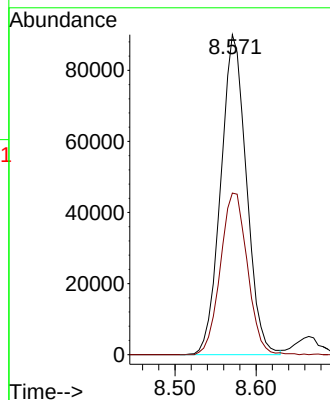
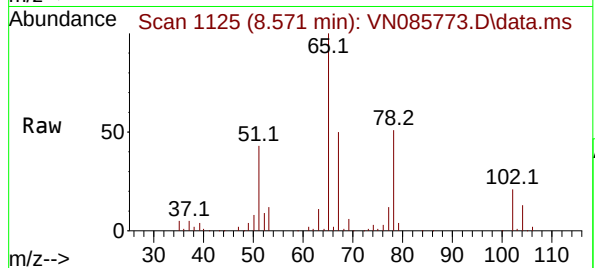
67 53.1 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

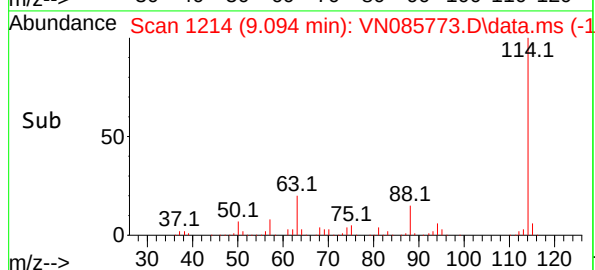
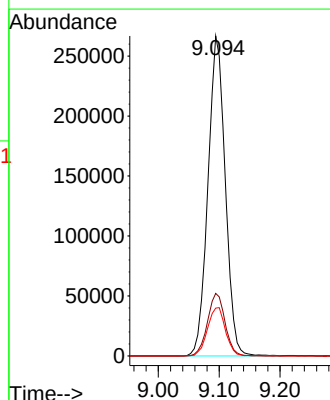
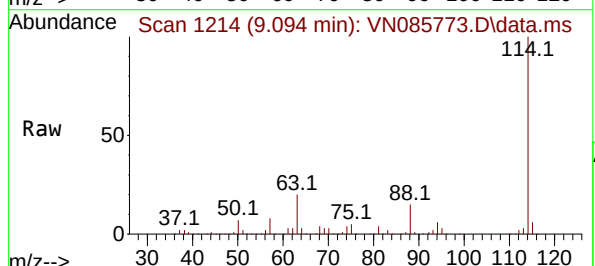
Tgt Ion:114 Resp: 526945

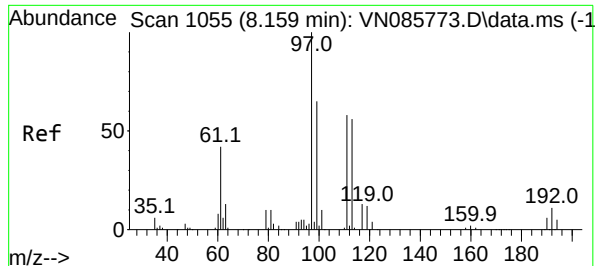
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.447 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 167050

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

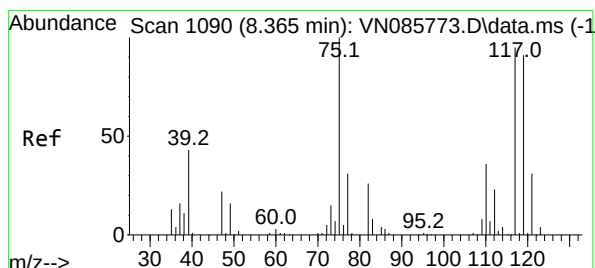
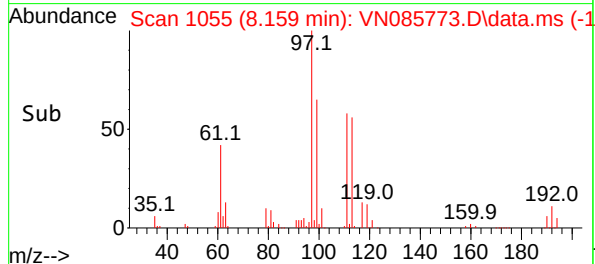
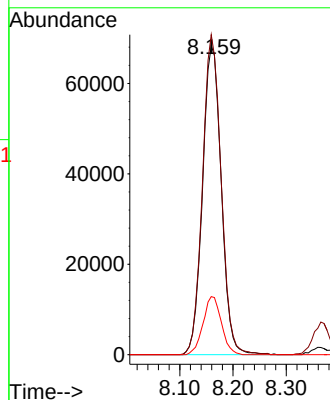
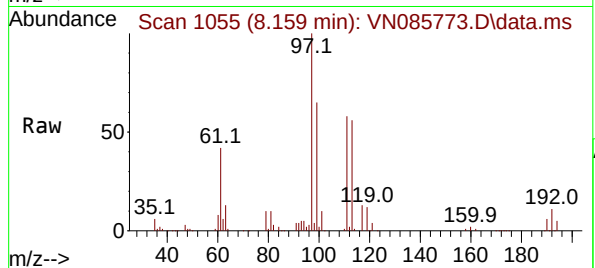
192 18.4 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#36

1,1-Dichloropropene

Concen: 49.620 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

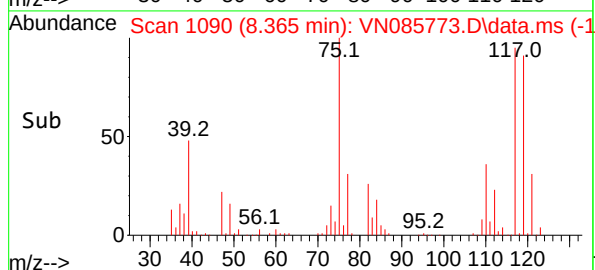
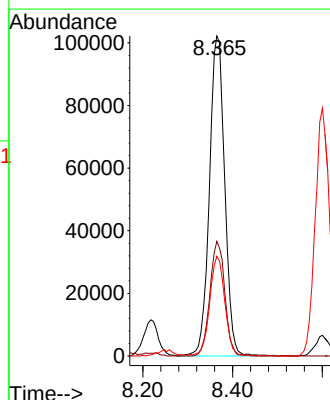
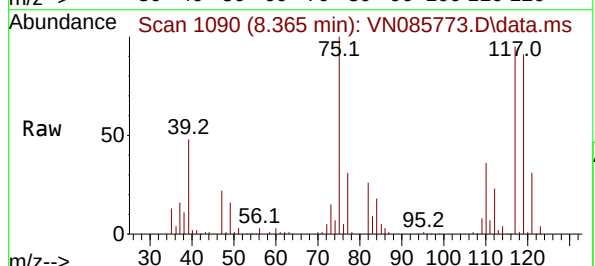
Tgt Ion: 75 Resp: 242144

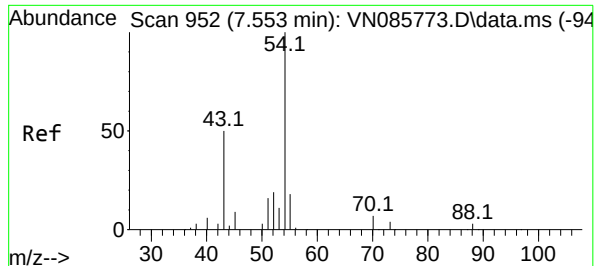
Ion Ratio Lower Upper

75 100

110 34.7 17.3 52.0

77 30.8 24.6 37.0





#37

Ethyl Acetate

Concen: 49.206 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 197609

Ion Ratio Lower Upper

43 100

61 15.2 12.2 18.2

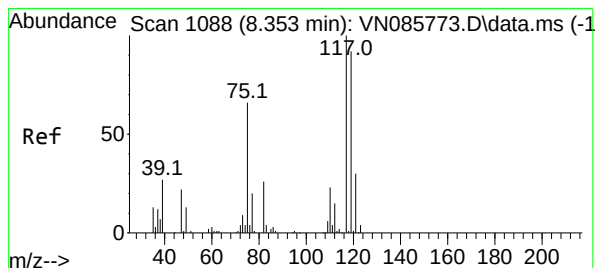
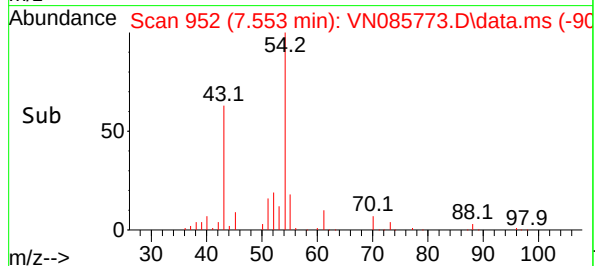
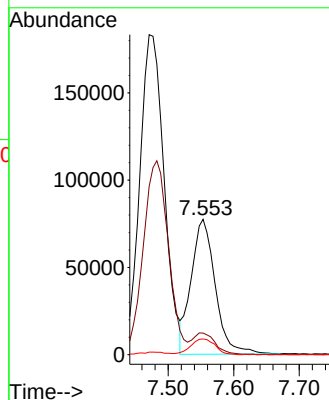
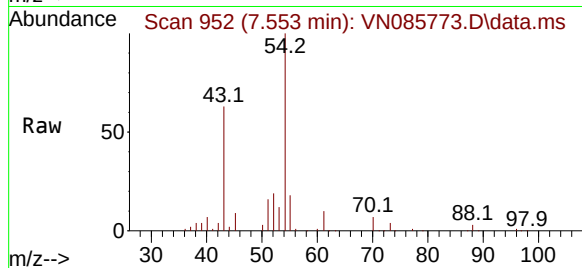
70 11.9 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#38

Carbon Tetrachloride

Concen: 47.997 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

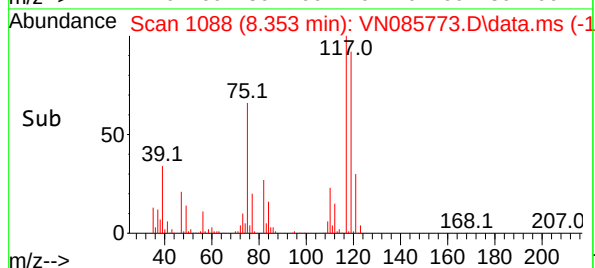
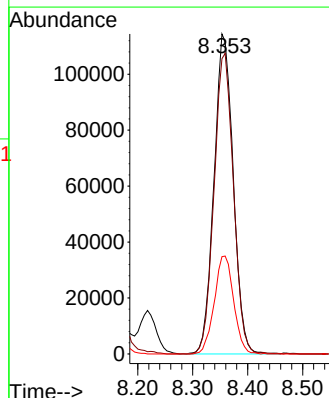
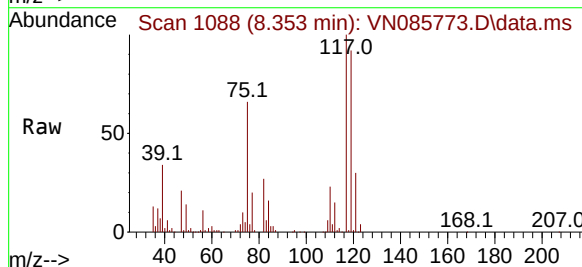
Tgt Ion:117 Resp: 278306

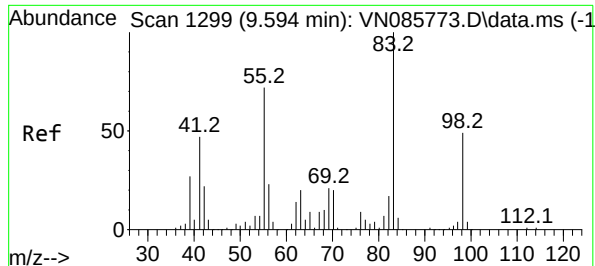
Ion Ratio Lower Upper

117 100

119 92.2 73.8 110.6

121 30.4 24.3 36.5





#39

Methylcyclohexane

Concen: 54.085 ug/l

RT: 9.594 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 259289

Ion Ratio Lower Upper

83 100

55 71.9 57.5 86.3

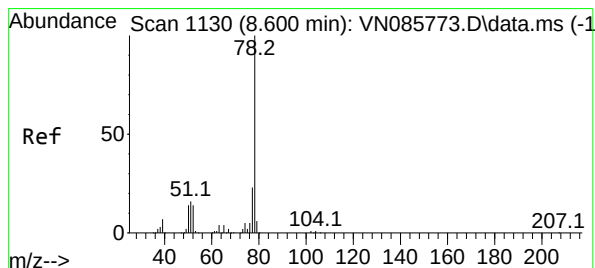
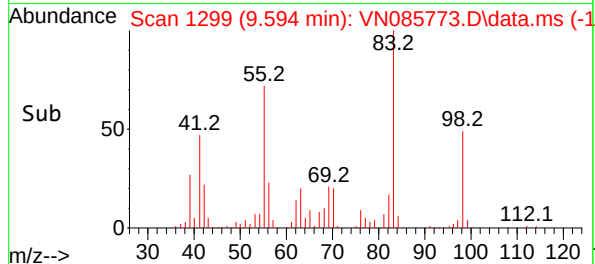
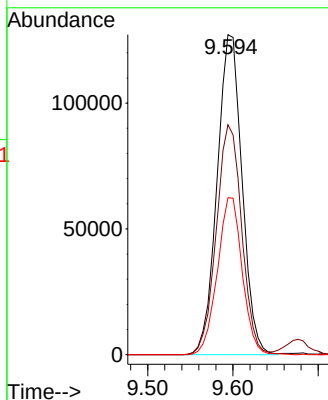
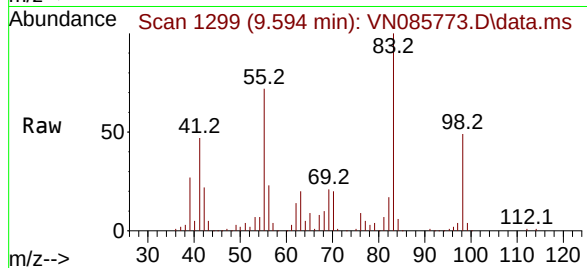
98 49.0 39.2 58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#40

Benzene

Concen: 48.551 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085773.D

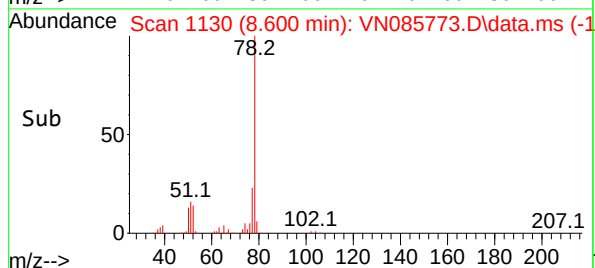
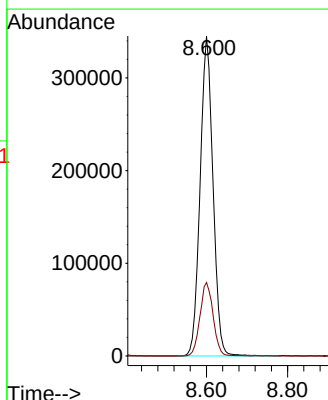
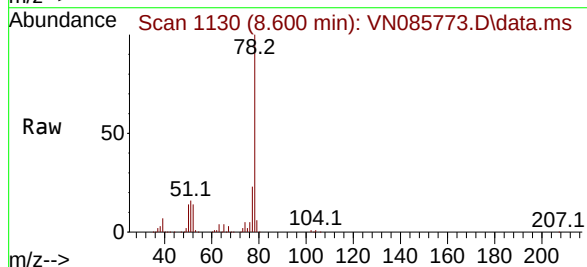
Acq: 18 Feb 2025 11:32

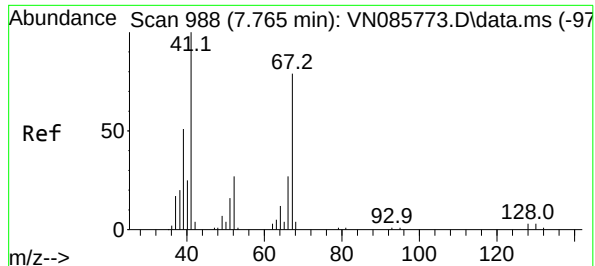
Tgt Ion: 78 Resp: 759363

Ion Ratio Lower Upper

78 100

77 22.9 18.3 27.5





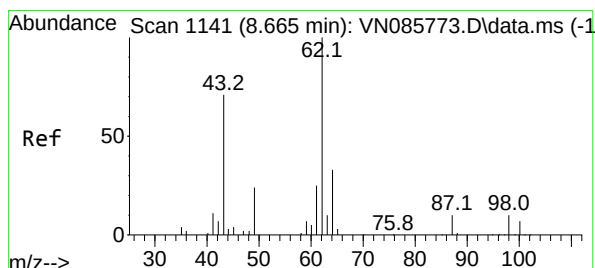
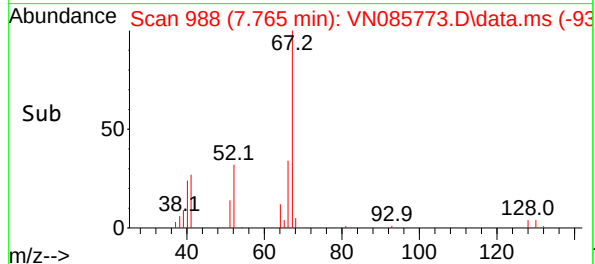
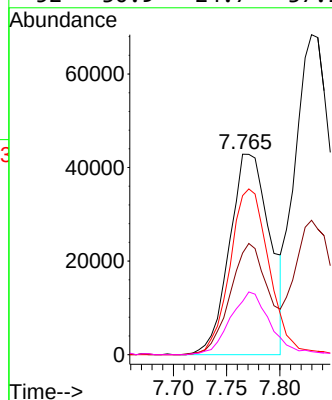
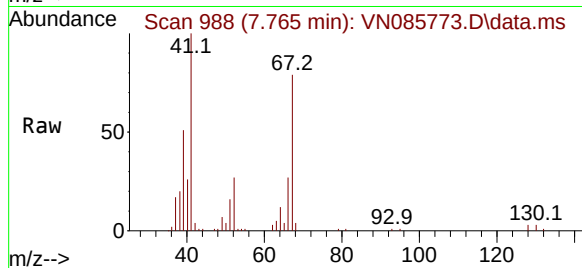
#41
Methacrylonitrile
Concen: 52.901 ug/l
RT: 7.765 min Scan# 911
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 11356
Ion Ratio Lower Upper
41 100
39 52.5 42.0 63.0
67 80.3 64.2 96.4
52 30.9 24.7 37.1

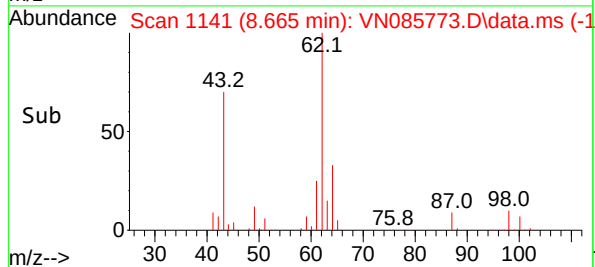
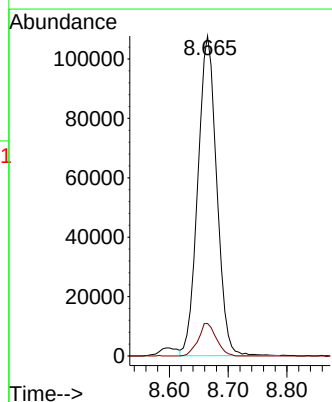
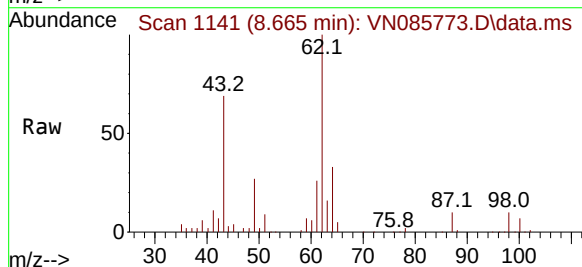
Manual Integrations
APPROVED

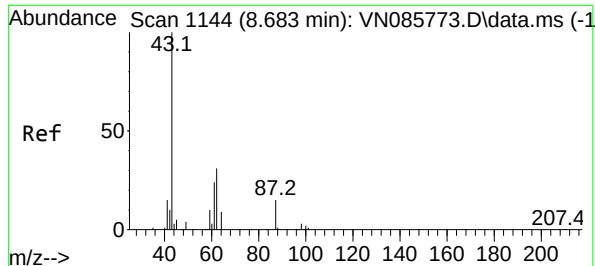
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#42
1,2-Dichloroethane
Concen: 47.132 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 62 Resp: 240115
Ion Ratio Lower Upper
62 100
98 9.8 0.0 19.6





#43

Isopropyl Acetate

Concen: 47.574 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 33548

Ion Ratio Lower Upper

43 100

61 28.3 22.6 34.0

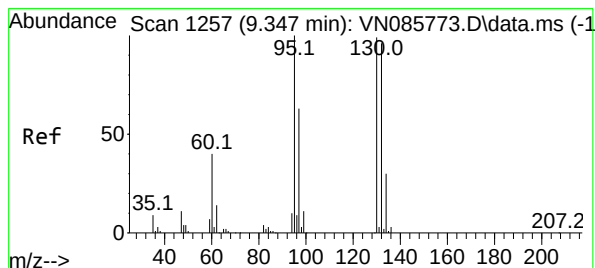
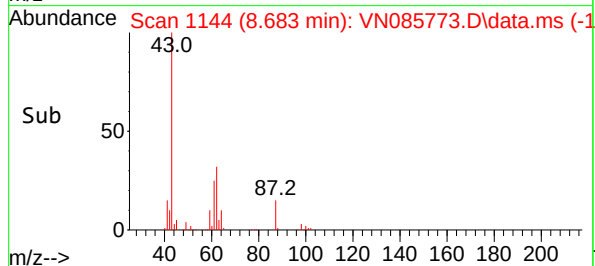
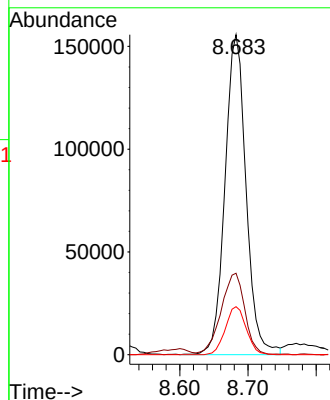
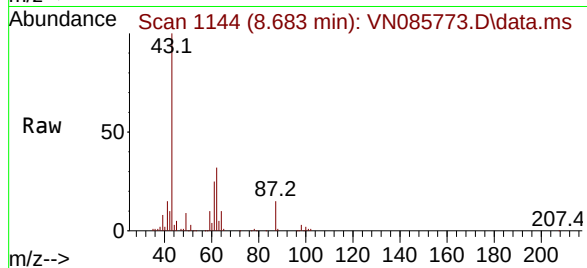
87 14.8 11.8 17.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#44

Trichloroethene

Concen: 46.544 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085773.D

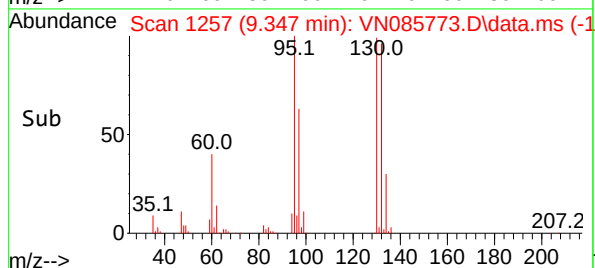
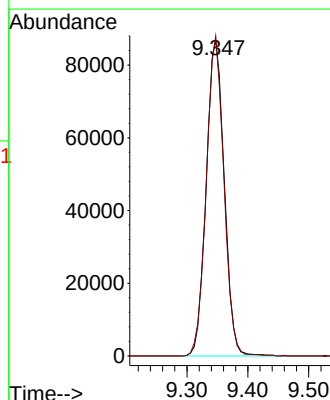
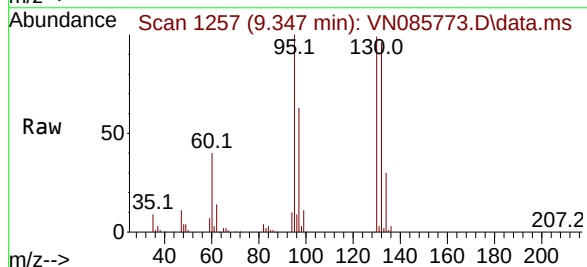
Acq: 18 Feb 2025 11:32

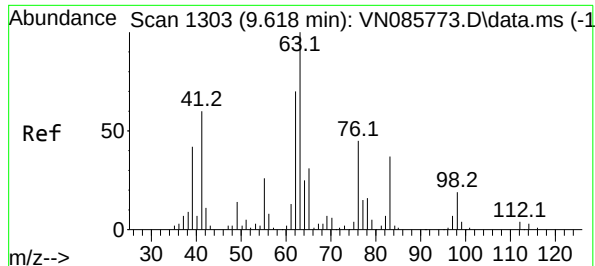
Tgt Ion:130 Resp: 178742

Ion Ratio Lower Upper

130 100

95 101.3 0.0 202.6





#45

1,2-Dichloropropane

Concen: 48.379 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 182649

Ion Ratio Lower Upper

63 100

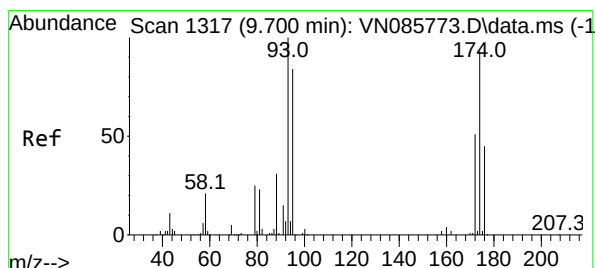
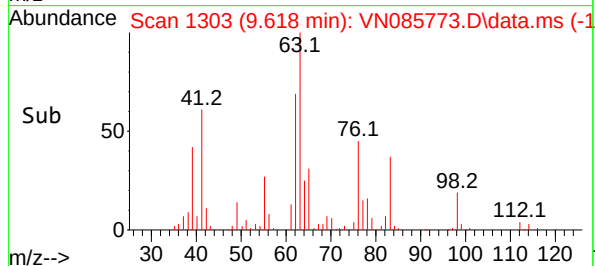
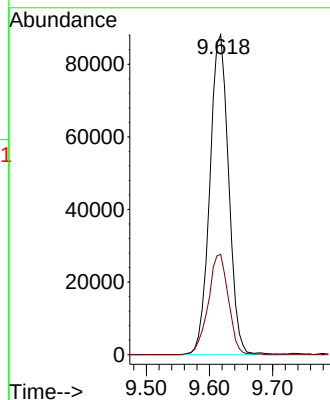
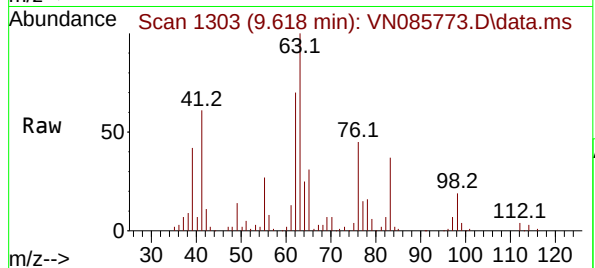
65 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#46

Dibromomethane

Concen: 48.010 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

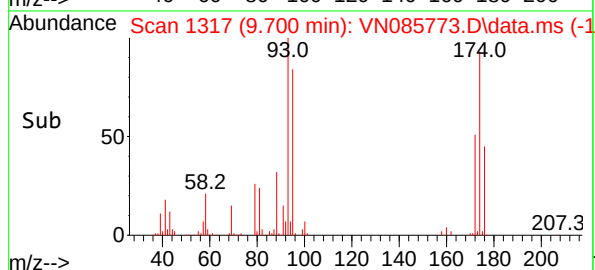
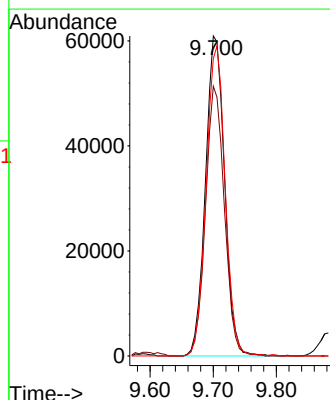
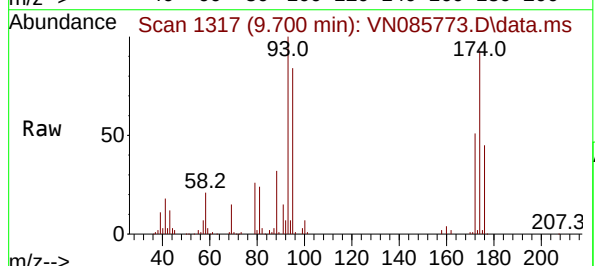
Tgt Ion: 93 Resp: 127850

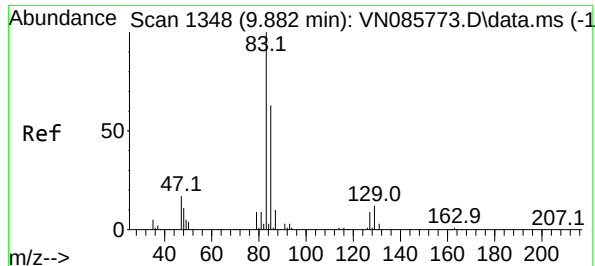
Ion Ratio Lower Upper

93 100

95 83.4 66.7 100.1

174 96.5 77.2 115.8





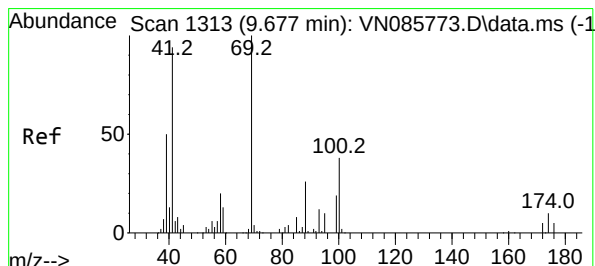
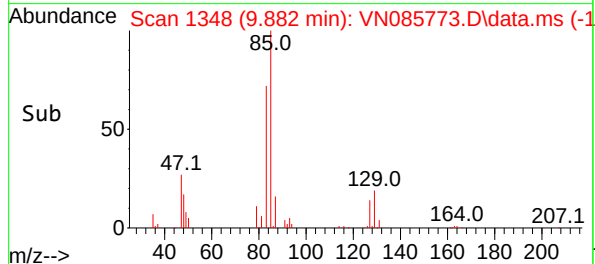
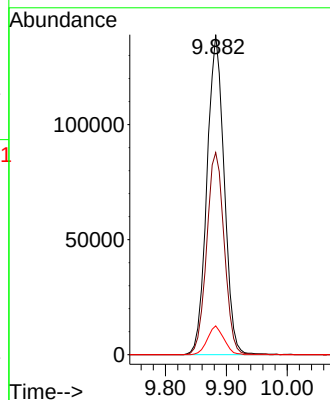
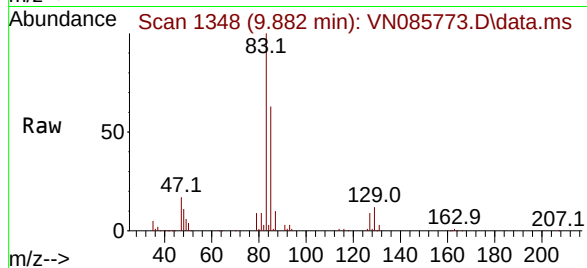
#47
Bromodichloromethane
Concen: 47.901 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 27291
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7
127 9.0 7.2 10.8

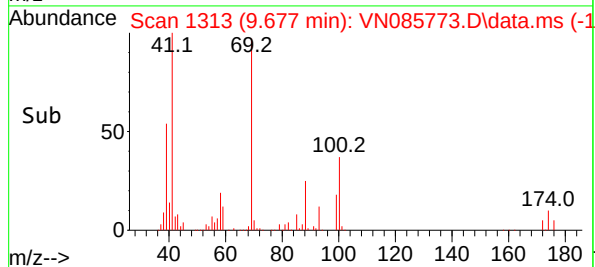
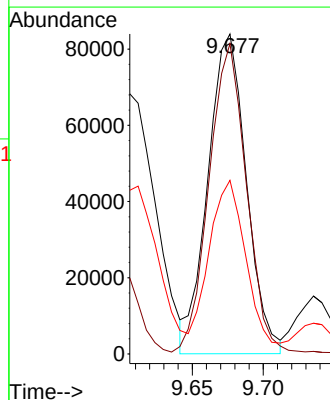
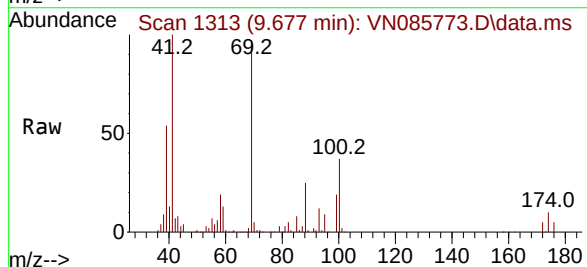
Manual Integrations
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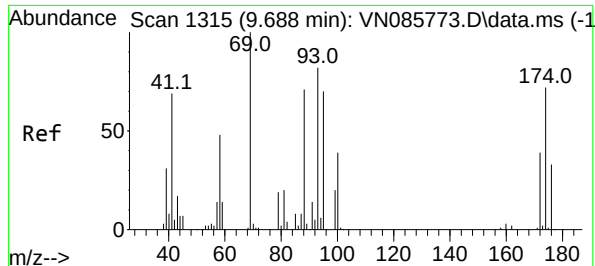
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#48
Methyl methacrylate
Concen: 53.102 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 41 Resp: 158375
Ion Ratio Lower Upper
41 100
69 95.0 76.0 114.0
39 52.9 42.3 63.5





#49

1,4-Dioxane

Concen: 1071.301 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 60759

Ion Ratio Lower Upper

88 100

43 23.2 18.6 27.8

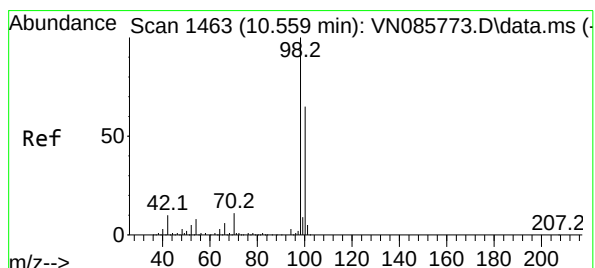
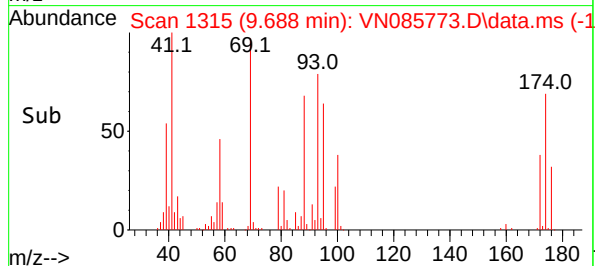
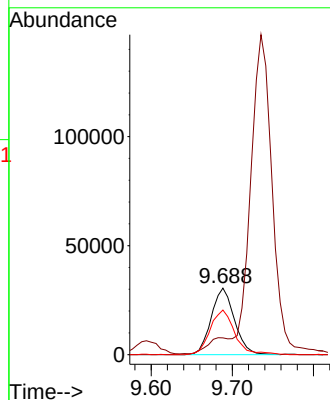
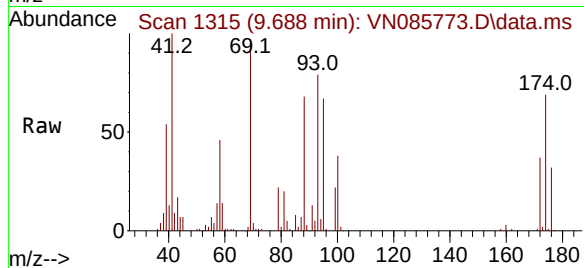
58 70.9 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#50

Toluene-d8

Concen: 50.380 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. 0.000 min

Lab File: VN085773.D

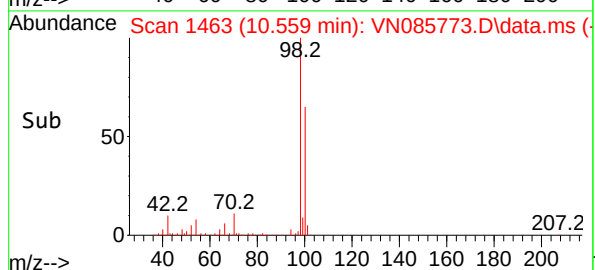
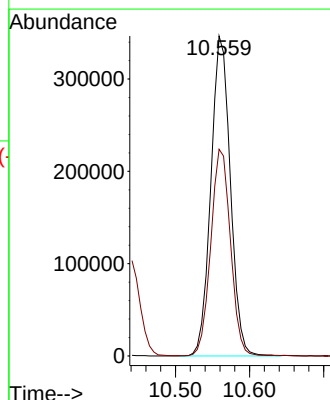
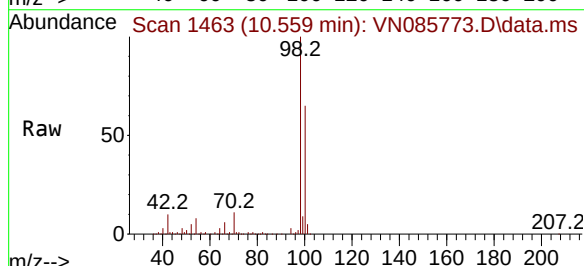
Acq: 18 Feb 2025 11:32

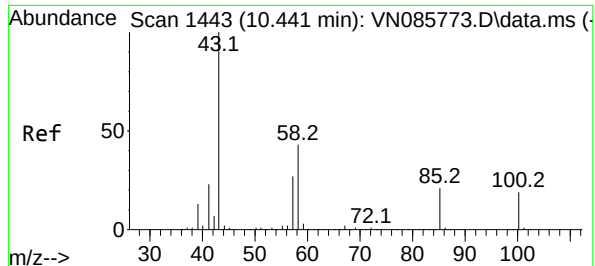
Tgt Ion: 98 Resp: 632021

Ion Ratio Lower Upper

98 100

100 65.1 52.1 78.1





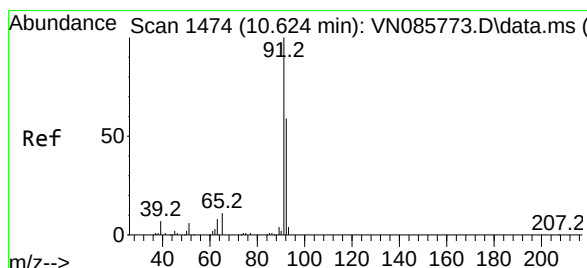
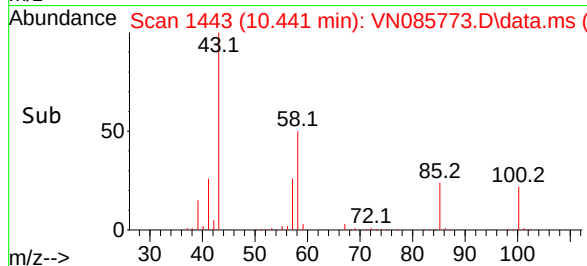
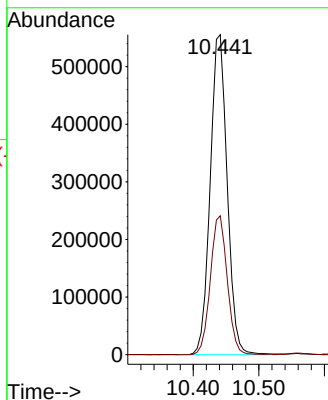
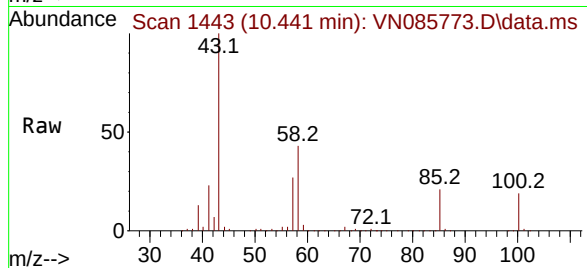
#51
4-Methyl-2-Pentanone
Concen: 257.731 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 997900
Ion Ratio Lower Upper
43 100
58 43.3 34.6 52.0

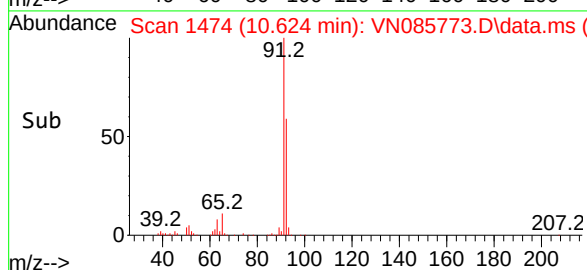
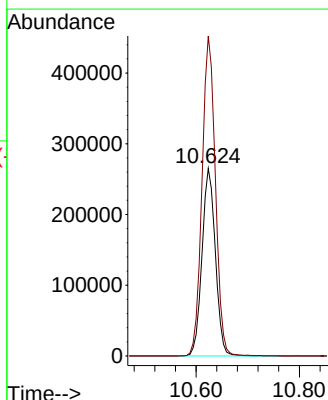
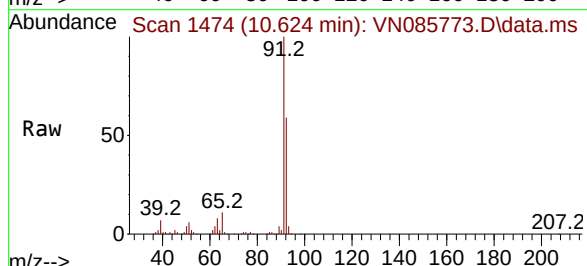
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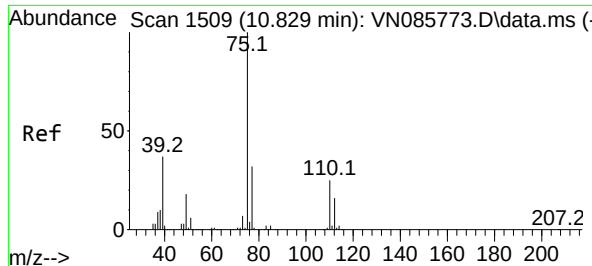
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#52
Toluene
Concen: 51.816 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 92 Resp: 475069
Ion Ratio Lower Upper
92 100
91 171.1 136.9 205.3





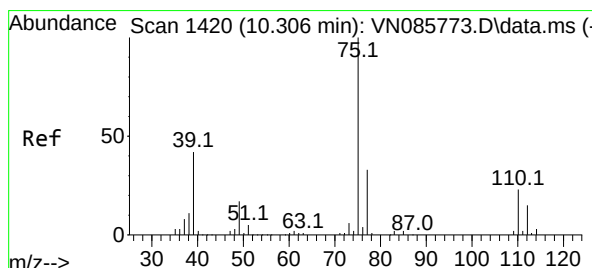
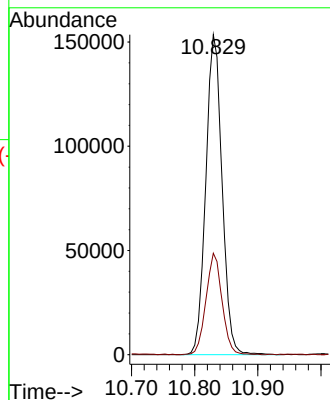
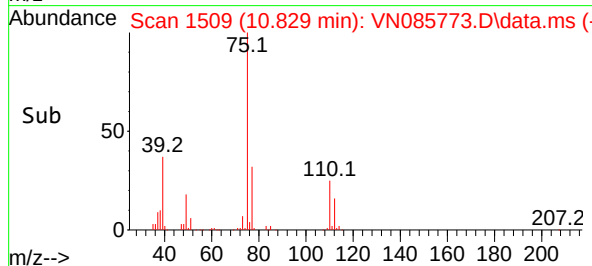
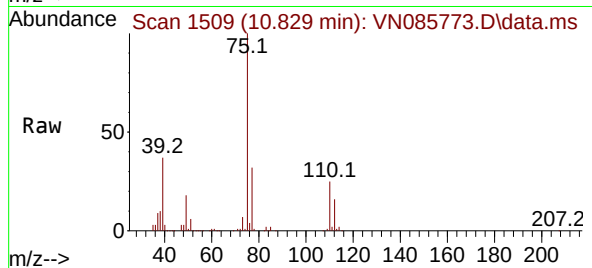
#53
t-1,3-Dichloropropene
Concen: 52.159 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 27479
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.0

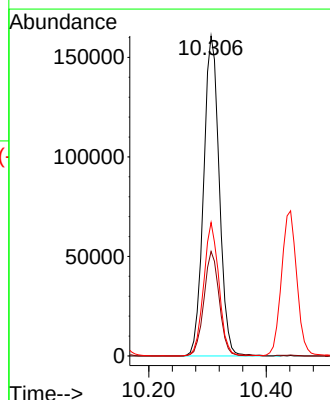
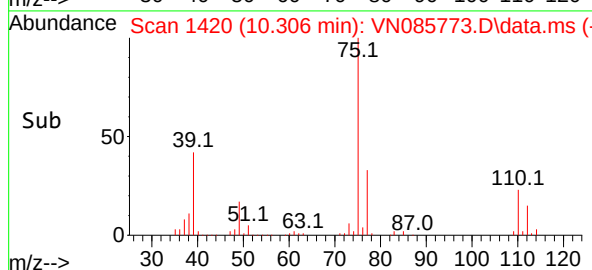
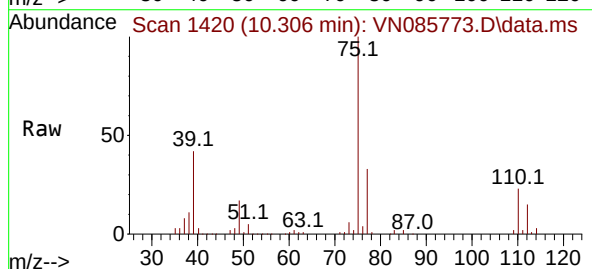
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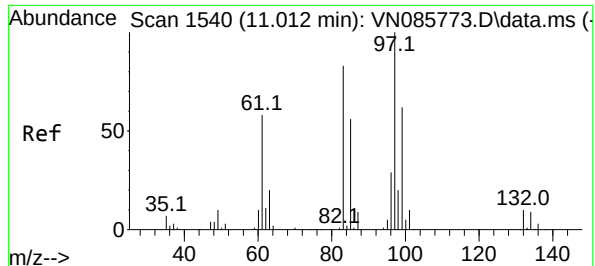
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#54
cis-1,3-Dichloropropene
Concen: 51.646 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 75 Resp: 298359
Ion Ratio Lower Upper
75 100
77 32.6 26.1 39.1
39 41.7 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 47.788 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 174198

Ion Ratio Lower Upper

97 100

83 82.6 66.1 99.1

85 55.9 44.7 67.1

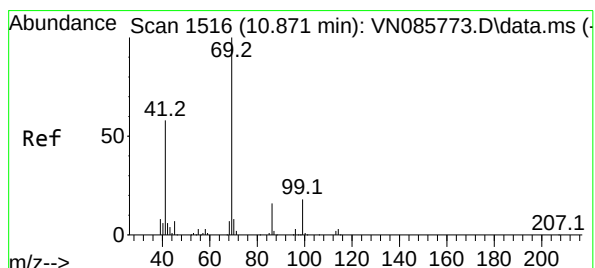
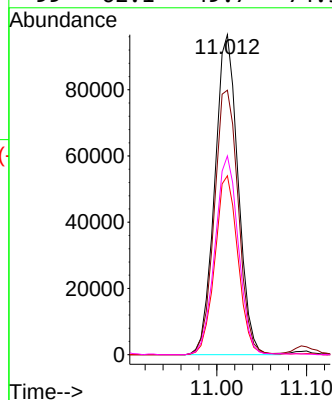
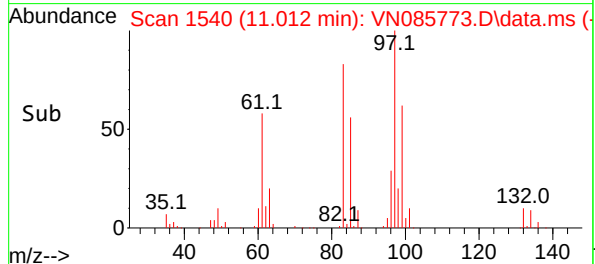
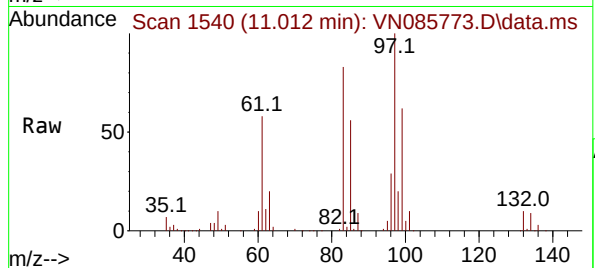
99 62.1 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#56

Ethyl methacrylate

Concen: 49.960 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

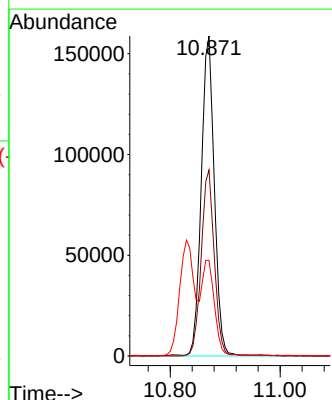
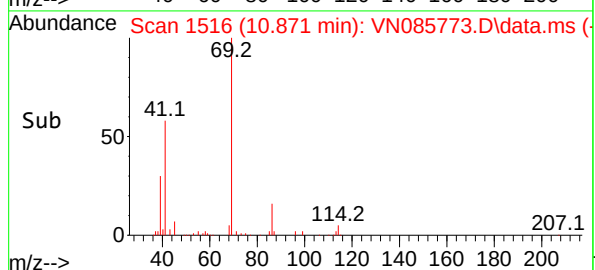
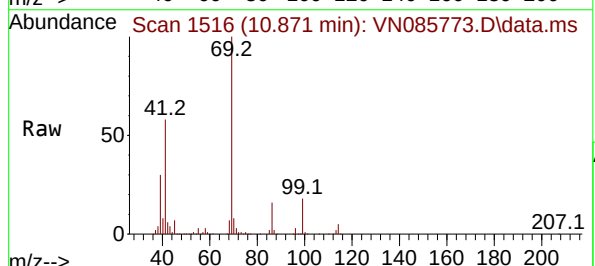
Tgt Ion: 69 Resp: 261825

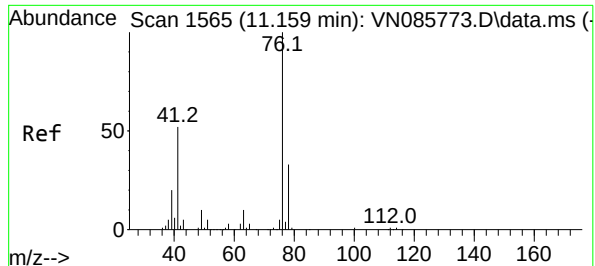
Ion Ratio Lower Upper

69 100

41 57.5 46.0 69.0

39 27.5 22.0 33.0





#57

1,3-Dichloropropane

Concen: 48.920 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 297683

Ion Ratio Lower Upper

76 100

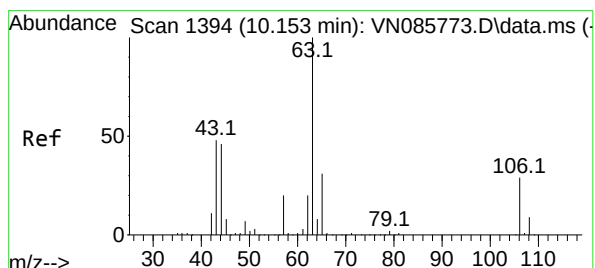
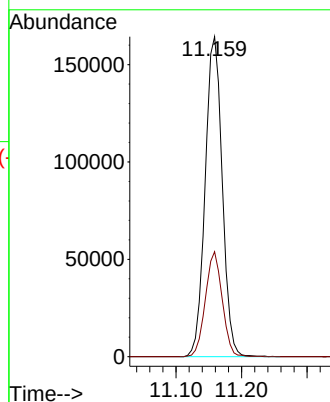
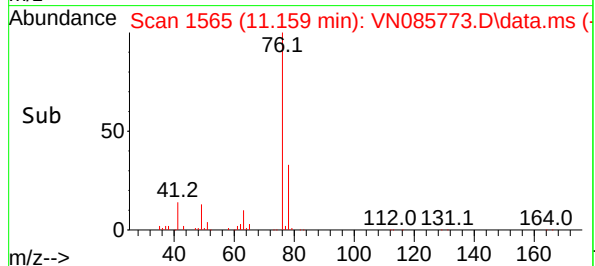
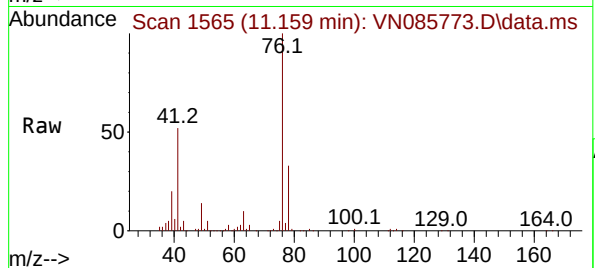
78 32.4 25.9 38.9

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 230.774 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085773.D

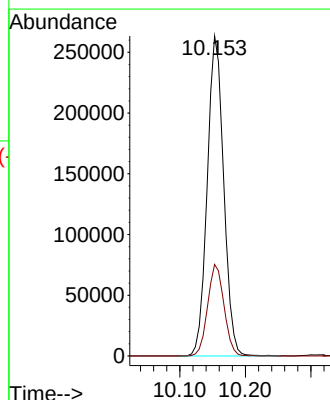
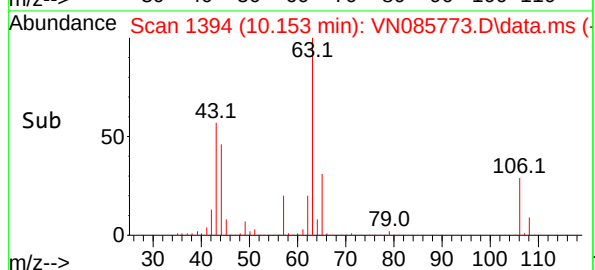
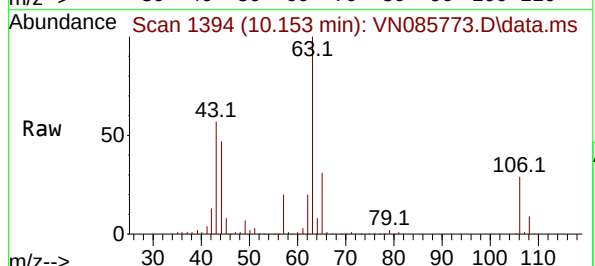
Acq: 18 Feb 2025 11:32

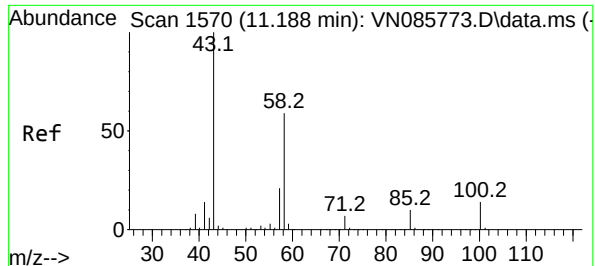
Tgt Ion: 63 Resp: 458983

Ion Ratio Lower Upper

63 100

106 28.4 22.7 34.1





#59

2-Hexanone

Concen: 270.257 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 719870

Ion Ratio Lower Upper

43 100

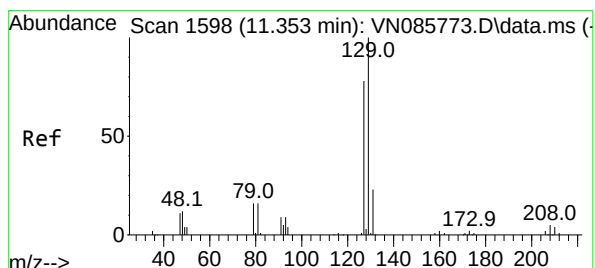
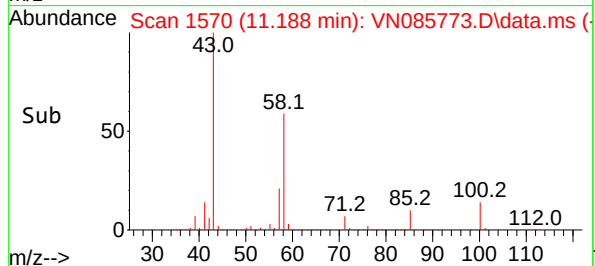
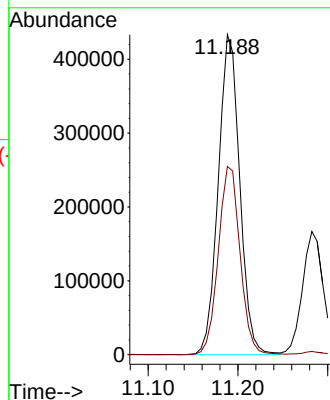
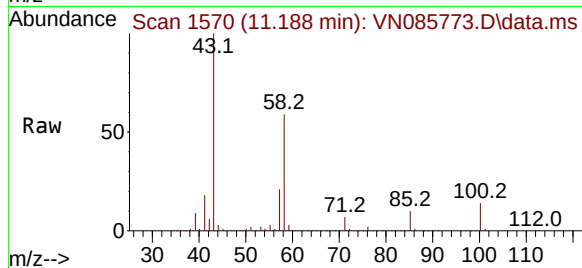
58 59.7 29.8 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#60

Dibromochloromethane

Concen: 49.890 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085773.D

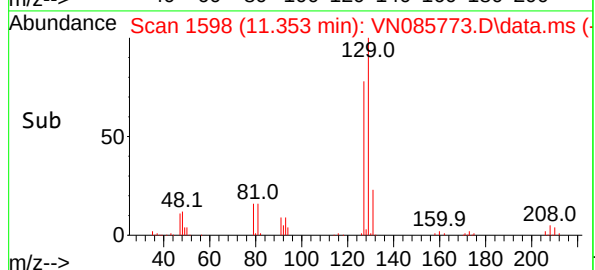
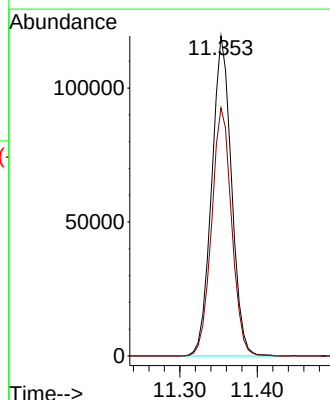
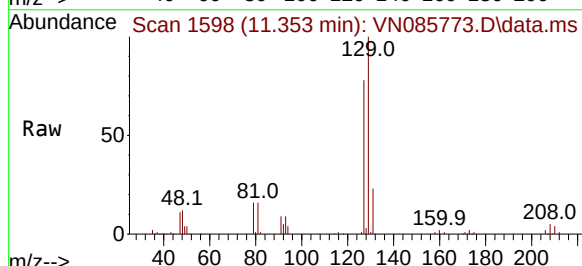
Acq: 18 Feb 2025 11:32

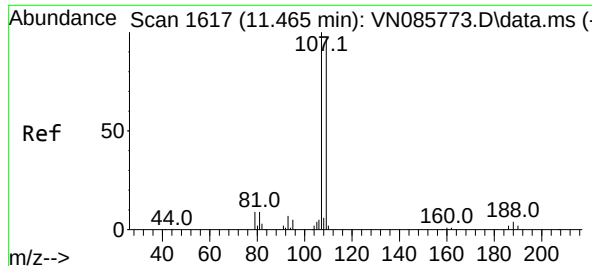
Tgt Ion:129 Resp: 211769

Ion Ratio Lower Upper

129 100

127 78.3 39.1 117.5





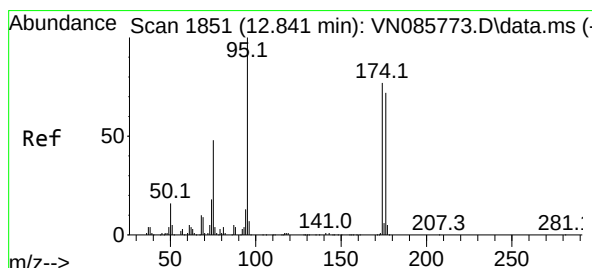
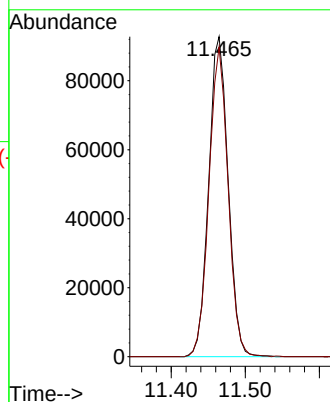
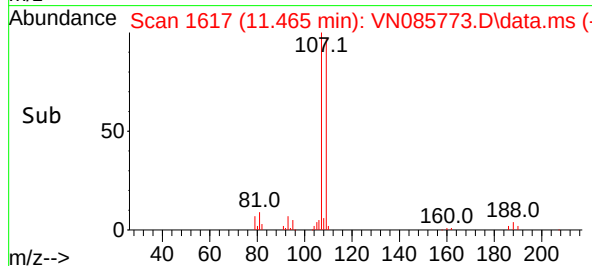
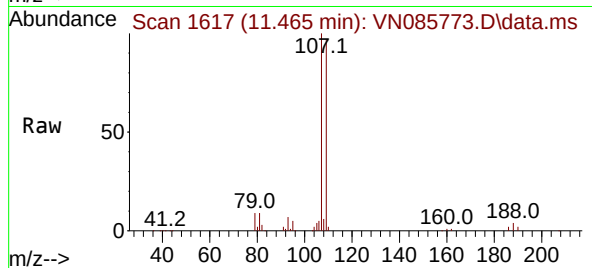
#61
1,2-Dibromoethane
Concen: 49.191 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 16942
Ion Ratio Lower Upper
107 100
109 95.0 76.0 114.0

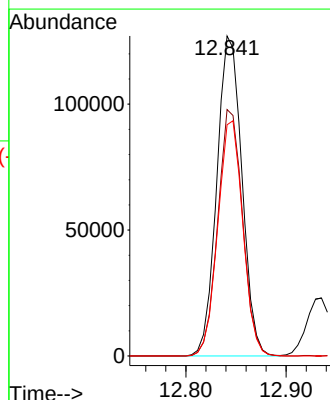
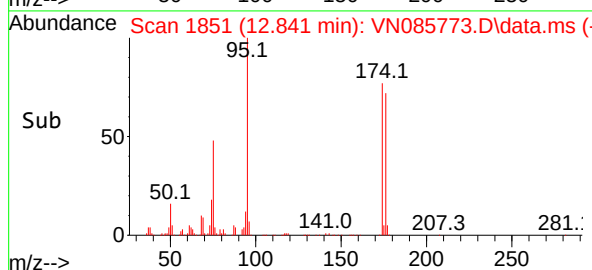
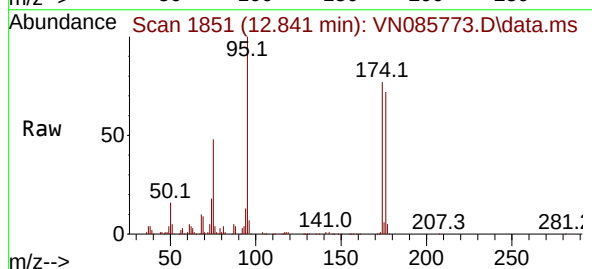
Manual Integrations
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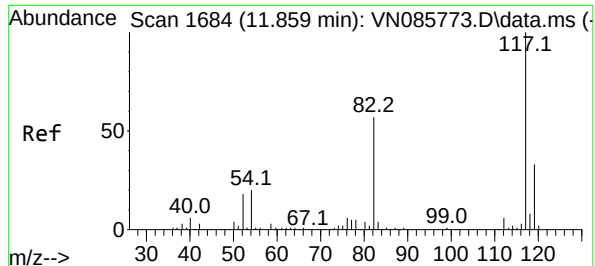
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#62
4-Bromofluorobenzene
Concen: 53.393 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 95 Resp: 220691
Ion Ratio Lower Upper
95 100
174 76.2 0.0 152.4
176 73.3 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 46165

Ion Ratio Lower Upper

117 100

82 57.1 45.7 68.5

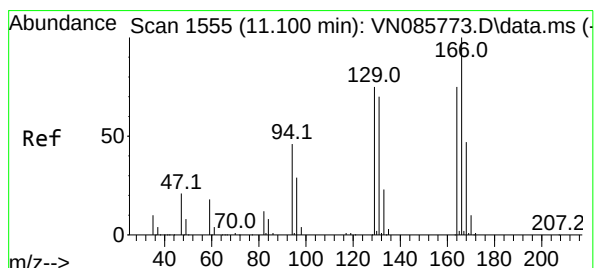
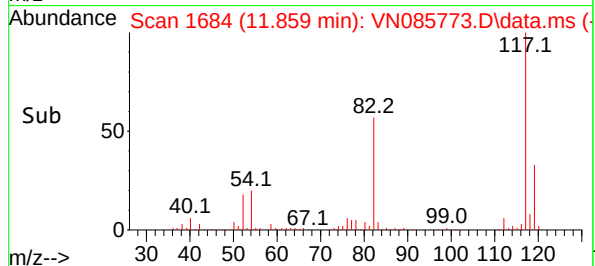
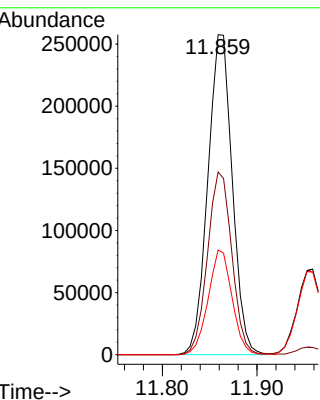
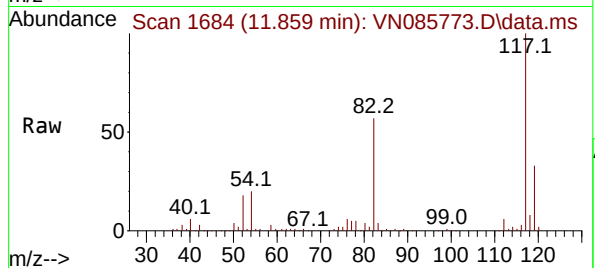
119 32.7 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#64

Tetrachloroethene

Concen: 46.613 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Tgt Ion:164 Resp: 166710

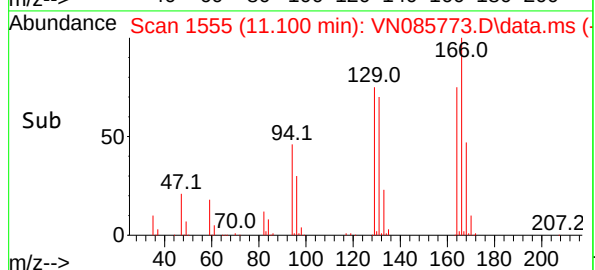
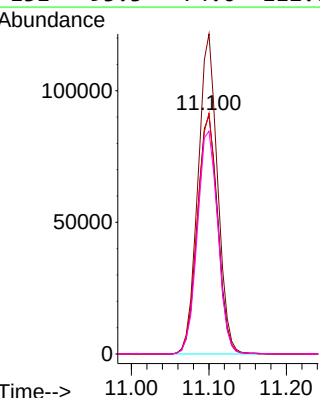
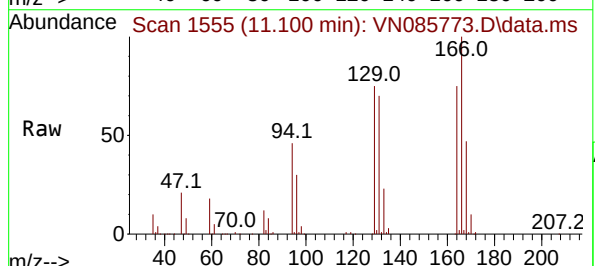
Ion Ratio Lower Upper

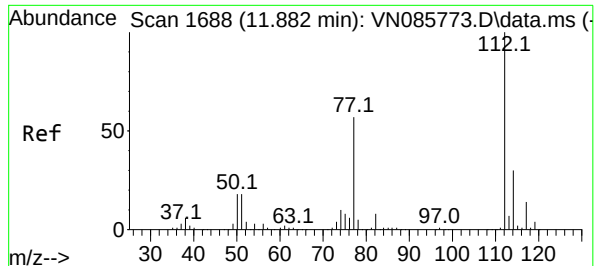
164 100

166 134.0 107.2 160.8

129 100.9 80.7 121.1

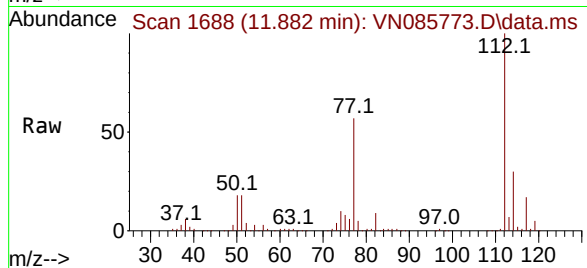
131 93.3 74.6 112.0





#65
Chlorobenzene
Concen: 48.454 ug/l
RT: 11.882 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

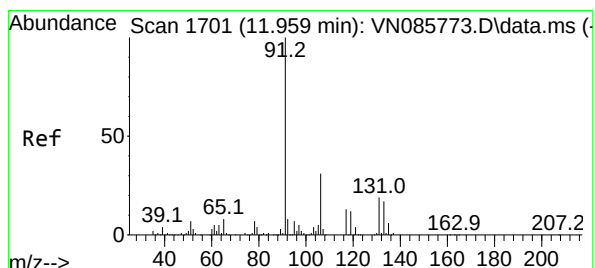
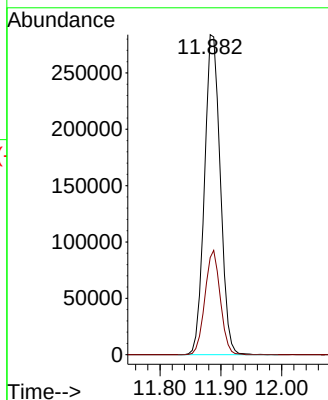
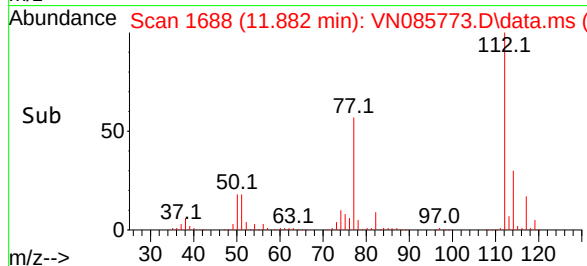
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



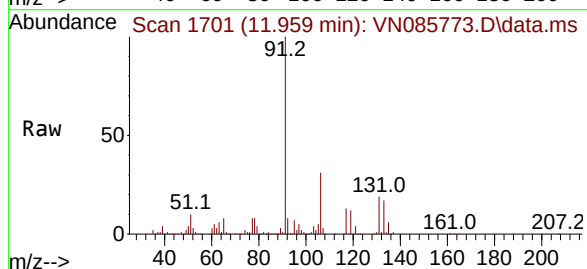
Tgt Ion:112 Resp: 512436
Ion Ratio Lower Upper
112 100
114 30.4 24.3 36.5

Manual Integrations
APPROVED

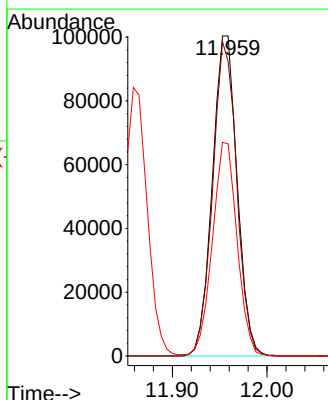
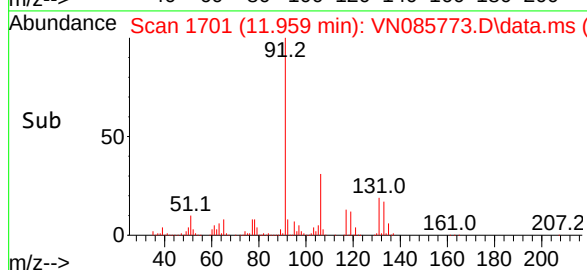
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

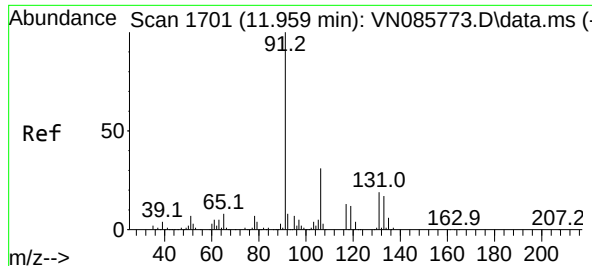


#66
1,1,1,2-Tetrachloroethane
Concen: 48.020 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32



Tgt Ion:131 Resp: 182537
Ion Ratio Lower Upper
131 100
133 95.4 47.7 143.1
119 66.5 33.3 99.8





#67

Ethyl Benzene

Concen: 53.062 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 879040

Ion Ratio Lower Upper

91 100

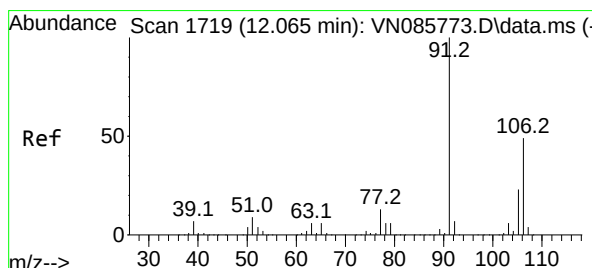
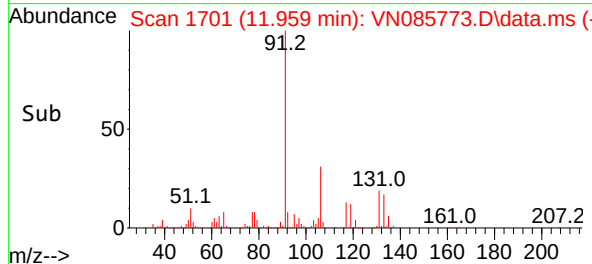
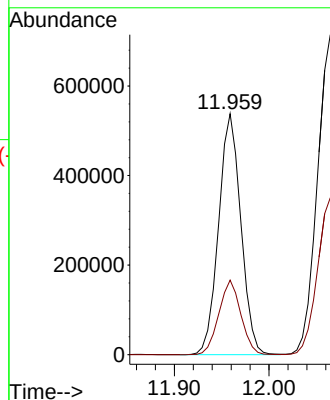
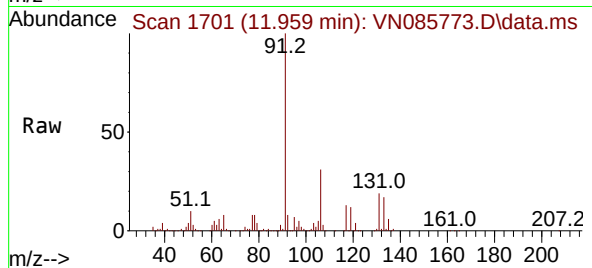
106 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#68

m/p-Xylenes

Concen: 108.757 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085773.D

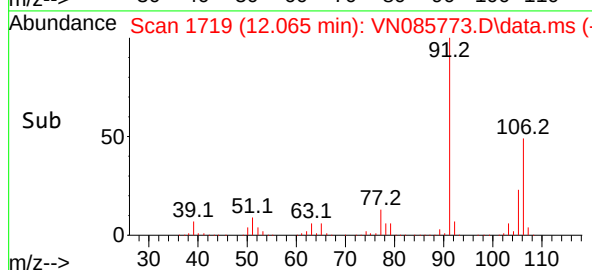
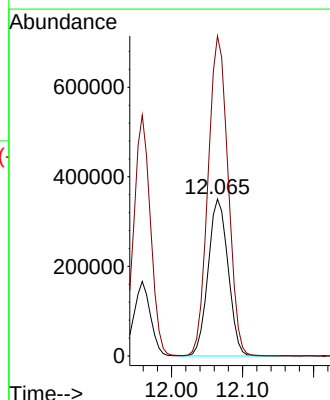
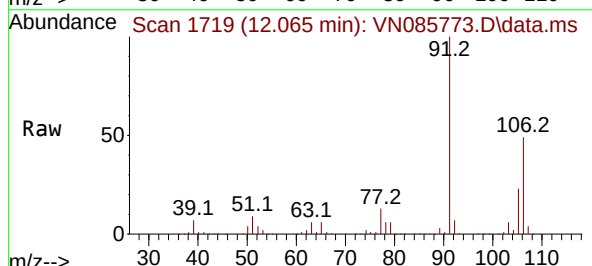
Acq: 18 Feb 2025 11:32

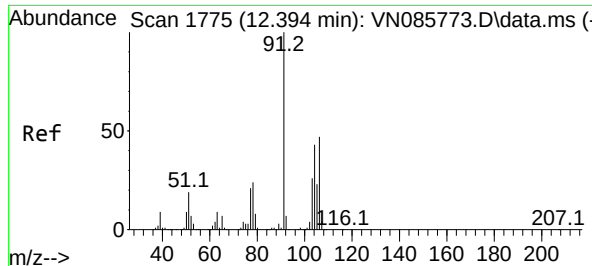
Tgt Ion:106 Resp: 684377

Ion Ratio Lower Upper

106 100

91 204.1 163.3 244.9





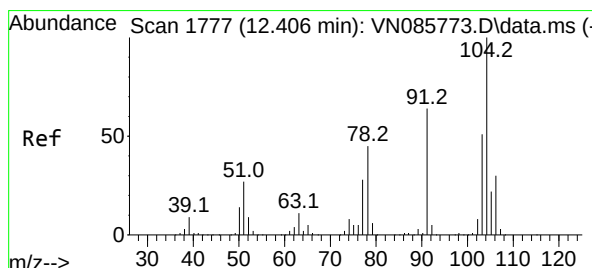
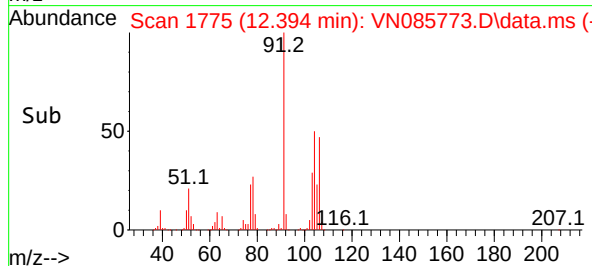
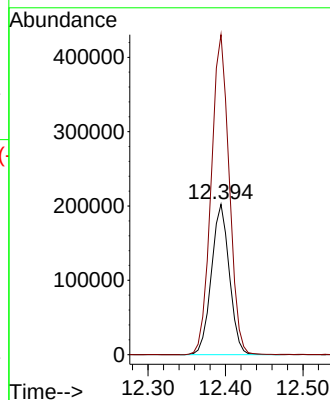
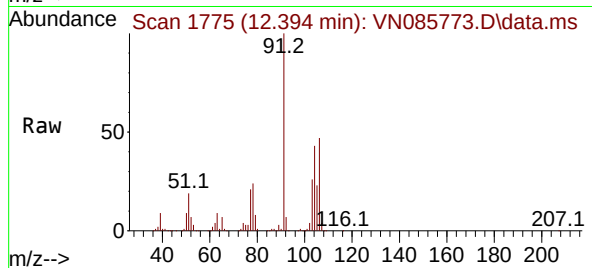
#69
o-Xylene
Concen: 54.342 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 324948
Ion Ratio Lower Upper
106 100
91 214.3 107.1 321.4

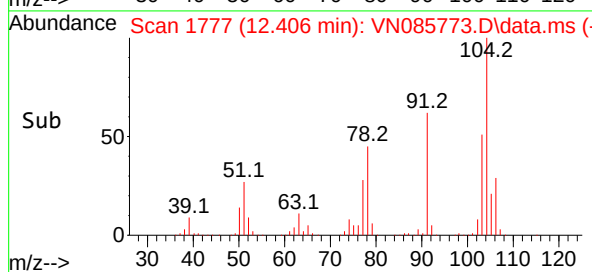
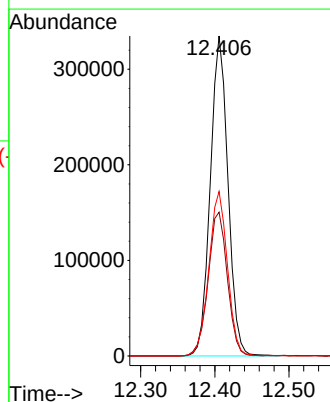
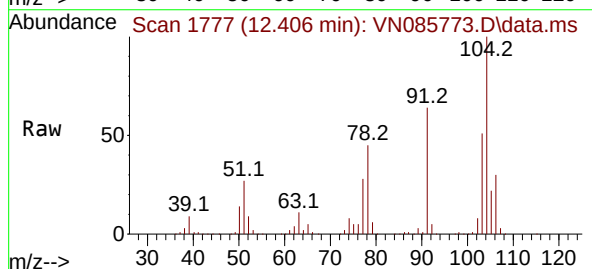
Manual Integrations
APPROVED

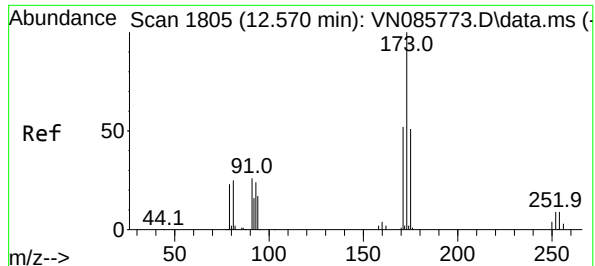
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#70
Styrene
Concen: 49.909 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion:104 Resp: 555269
Ion Ratio Lower Upper
104 100
78 48.8 39.0 58.6
103 54.1 43.3 64.9





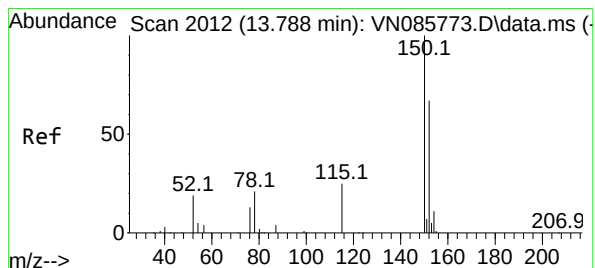
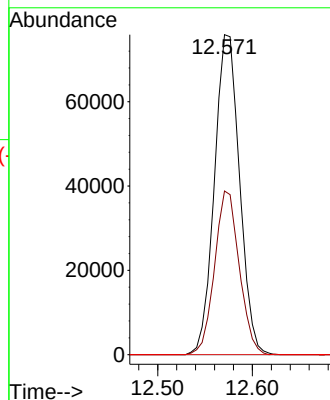
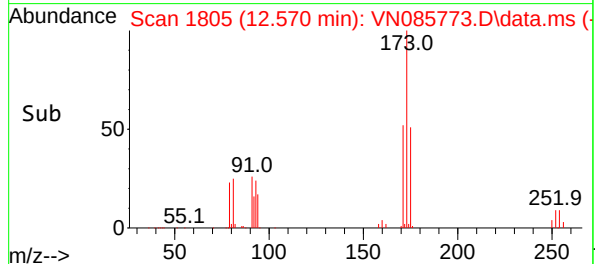
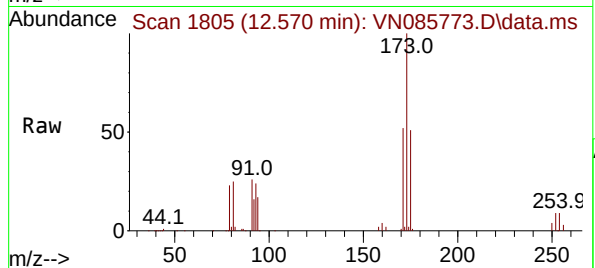
#71
Bromoform
Concen: 49.528 ug/l
RT: 12.570 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 13989
Ion Ratio Lower Upper
173 100
175 50.3 25.1 75.4
254 0.0 0.0 0.0

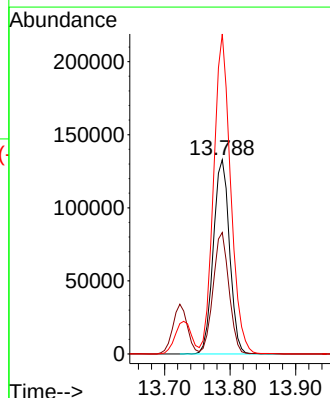
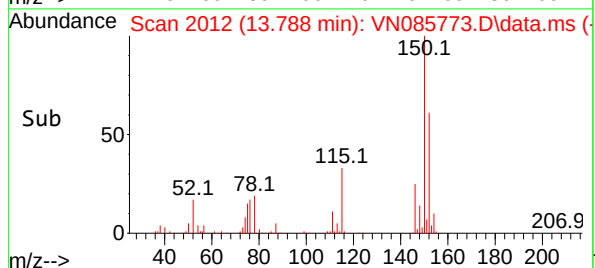
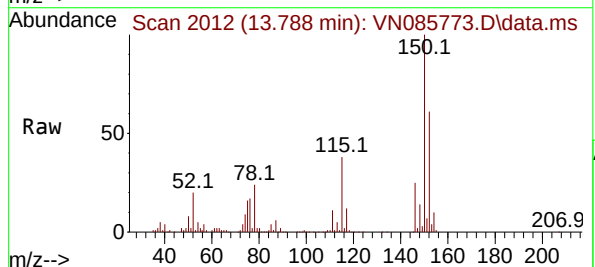
Manual Integrations
APPROVED

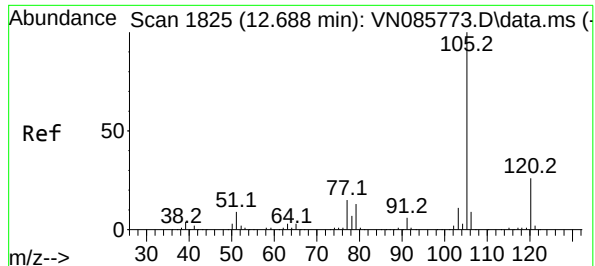
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion:152 Resp: 227499
Ion Ratio Lower Upper
152 100
115 60.9 30.4 91.3
150 172.7 0.0 345.4





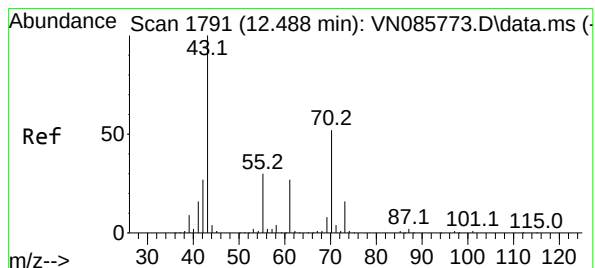
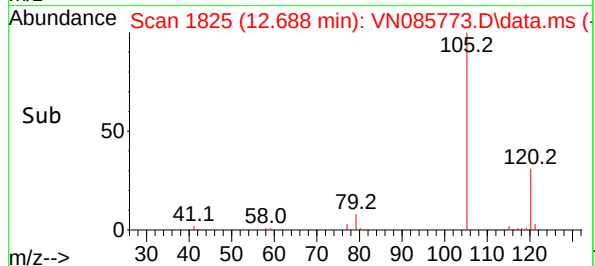
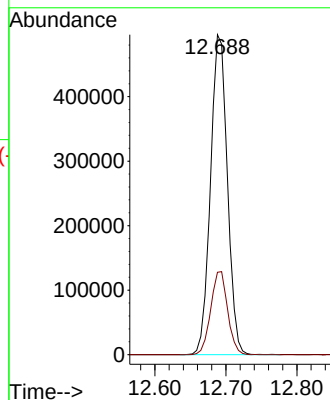
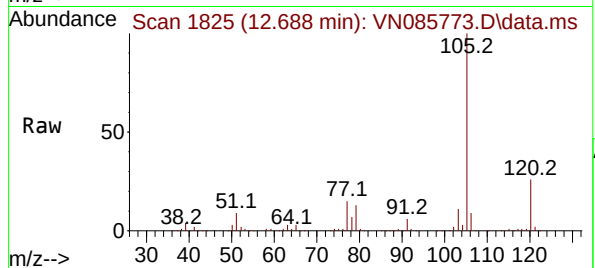
#73
Isopropylbenzene
Concen: 52.482 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 817980
Ion Ratio Lower Upper
105 100
120 26.0 13.0 39.0

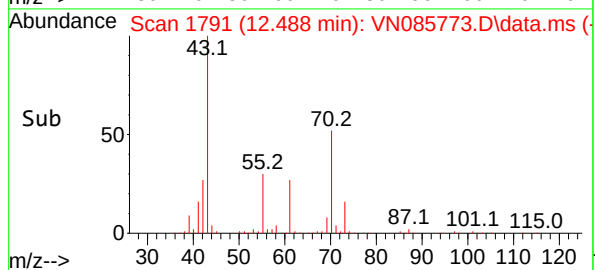
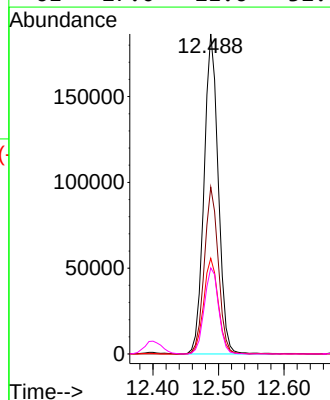
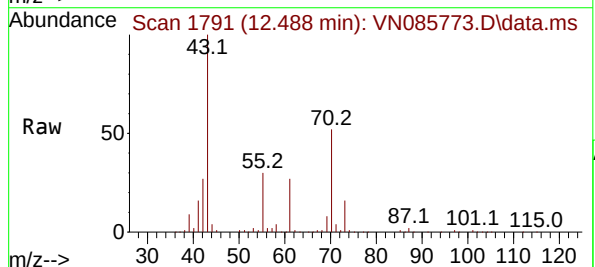
Manual Integrations
APPROVED

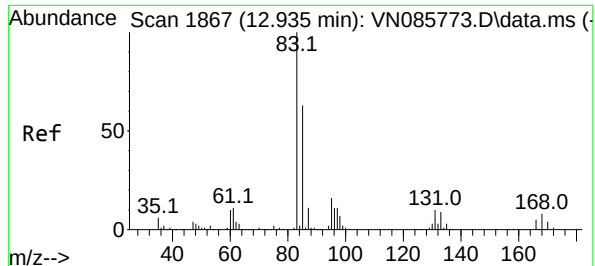
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#74
N-ethyl acetate
Concen: 51.360 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 43 Resp: 282288
Ion Ratio Lower Upper
43 100
70 51.2 41.0 61.4
55 30.7 24.6 36.8
61 27.0 21.6 32.4





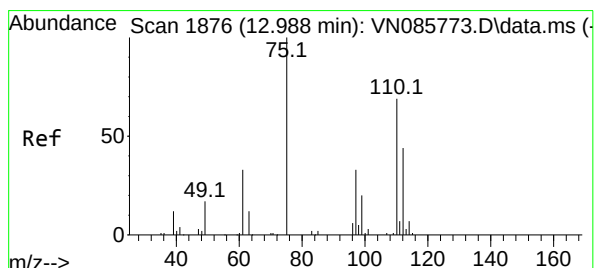
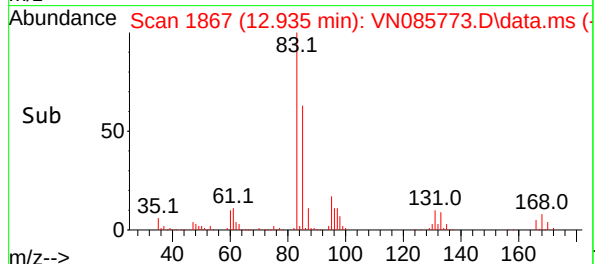
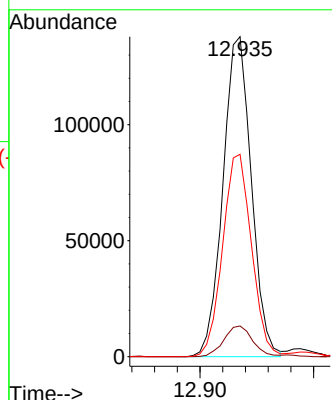
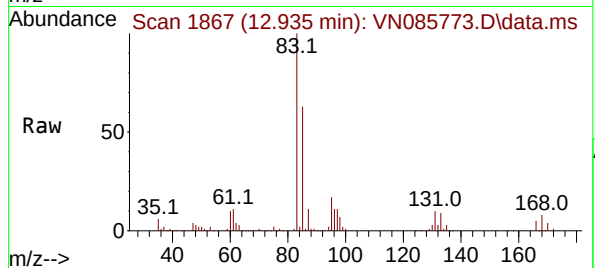
#75
1,1,2-Tetrachloroethane
Concen: 44.649 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 23946
Ion Ratio Lower Upper
83 100
131 10.0 5.0 15.0
85 64.4 32.2 96.6

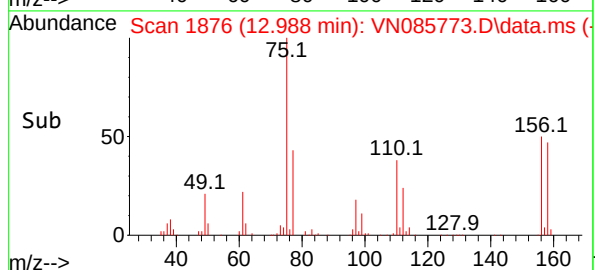
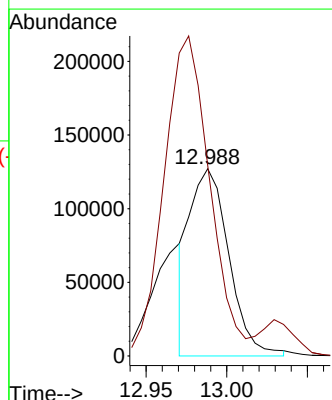
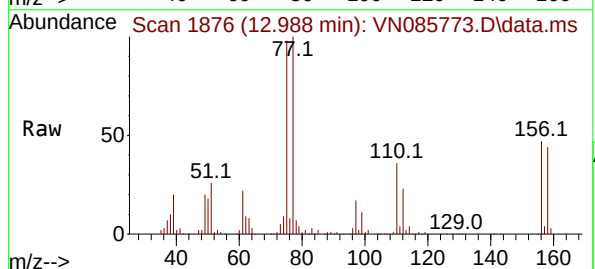
Manual Integrations
APPROVED

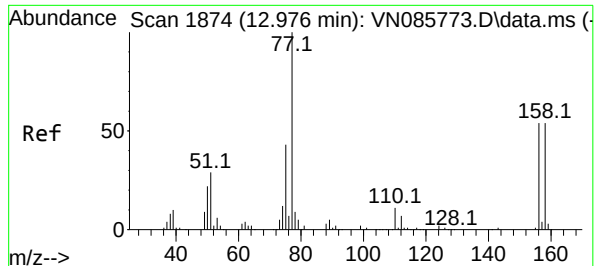
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#76
1,2,3-Trichloropropane
Concen: 43.108 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

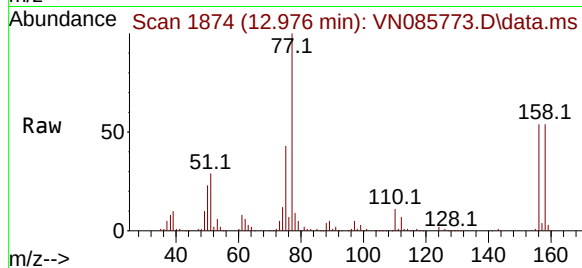
Tgt Ion: 75 Resp: 215451
Ion Ratio Lower Upper
75 100
77 198.9 100.0 300.0





#77
Bromobenzene
Concen: 48.863 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

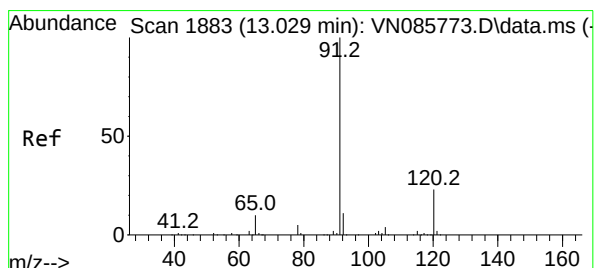
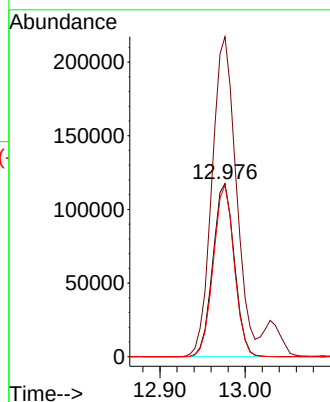
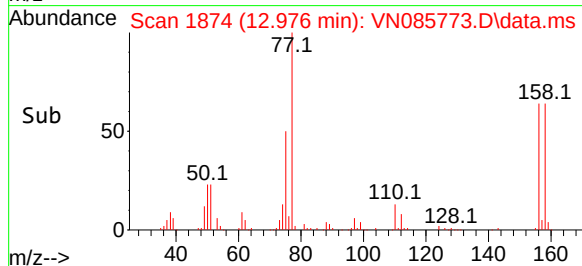
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 205754
Ion Ratio Lower Upper
156 100
77 208.2 104.1 312.3
158 96.3 48.1 144.4

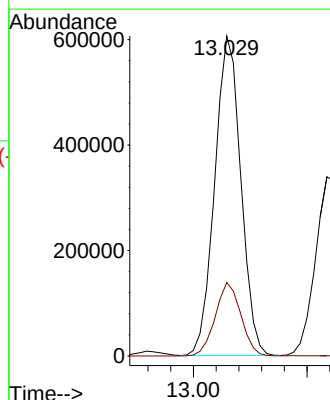
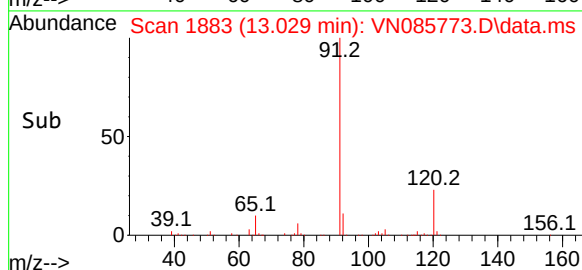
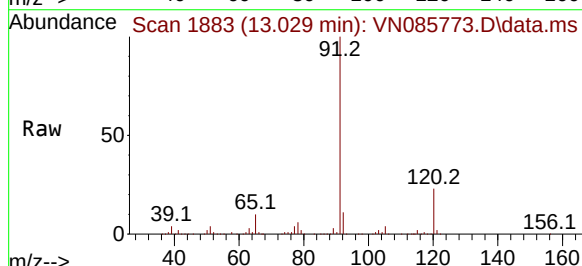
Manual Integrations
APPROVED

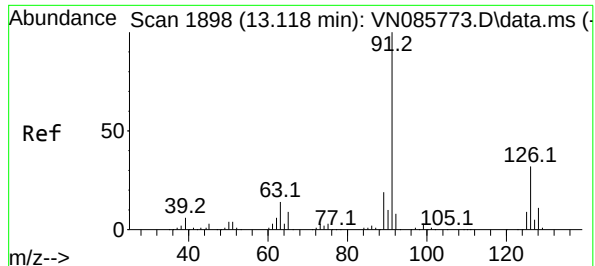
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#78
n-propylbenzene
Concen: 54.241 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 91 Resp: 968182
Ion Ratio Lower Upper
91 100
120 22.5 11.3 33.8





#79

2-Chlorotoluene

Concen: 49.895 ug/l

RT: 13.118 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 595040

Ion Ratio Lower Upper

91 100

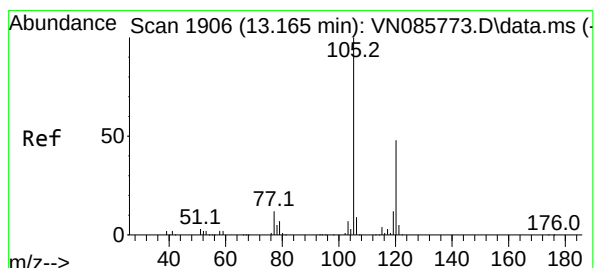
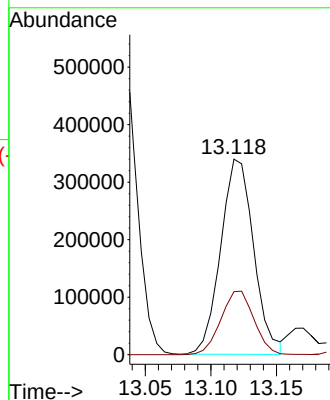
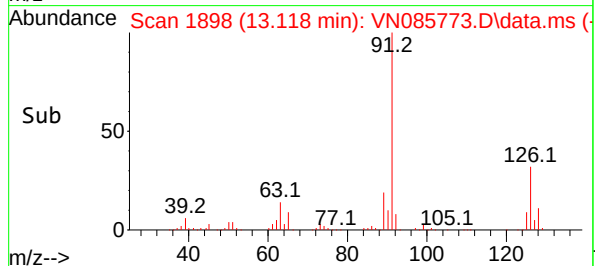
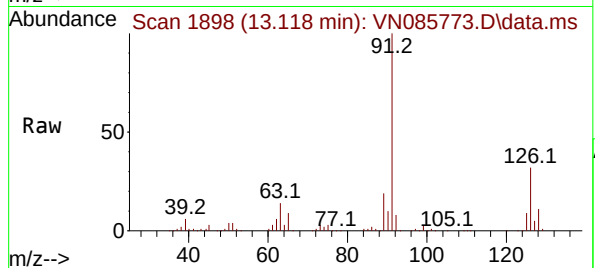
126 32.7 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 54.757 ug/l

RT: 13.165 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VN085773.D

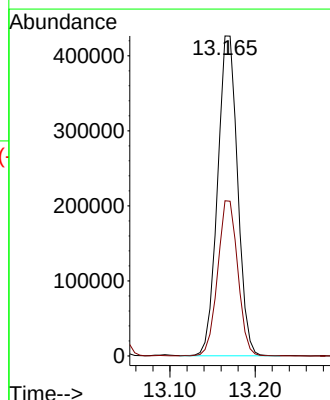
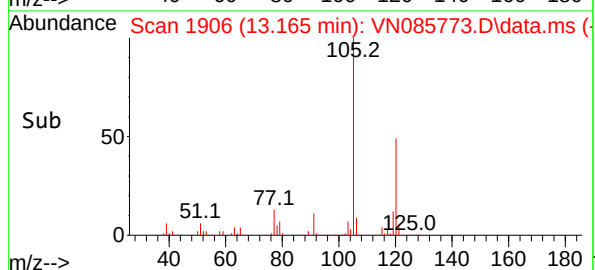
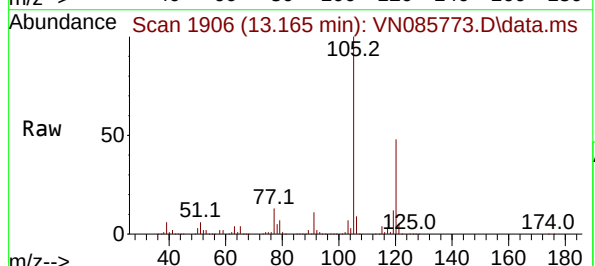
Acq: 18 Feb 2025 11:32

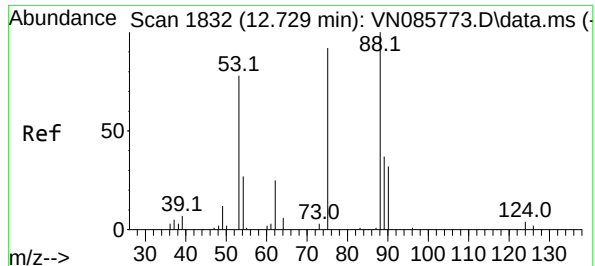
Tgt Ion:105 Resp: 695205

Ion Ratio Lower Upper

105 100

120 48.6 24.3 72.9





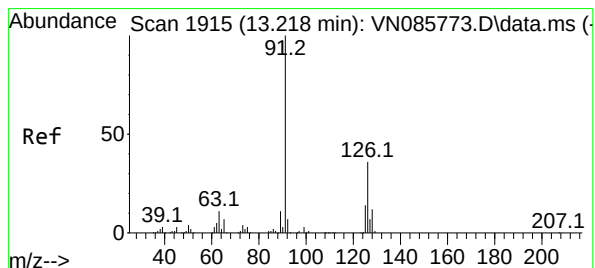
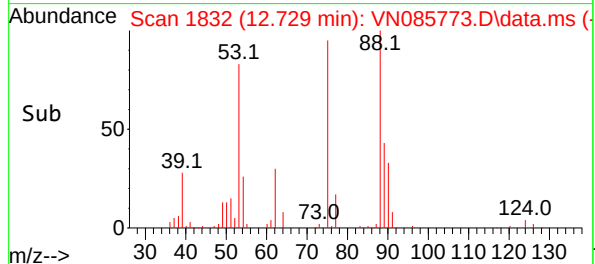
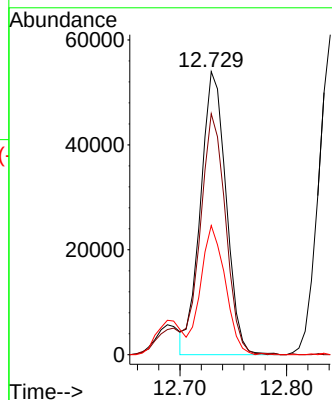
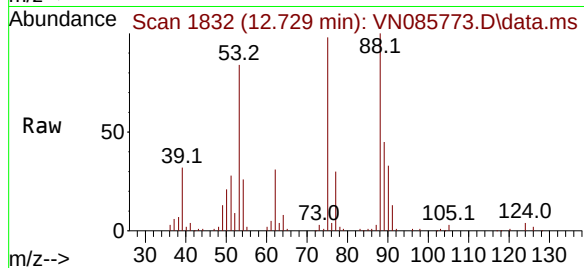
#81
trans-1,4-Dichloro-2-butene
Concen: 52.111 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 9025
Ion Ratio Lower Upper
75 100
53 92.8 74.2 111.4
89 43.6 34.9 52.3

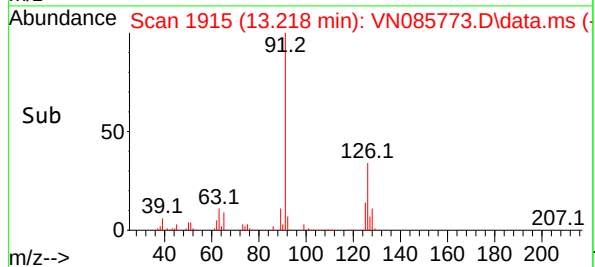
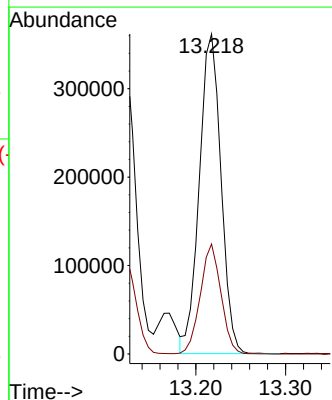
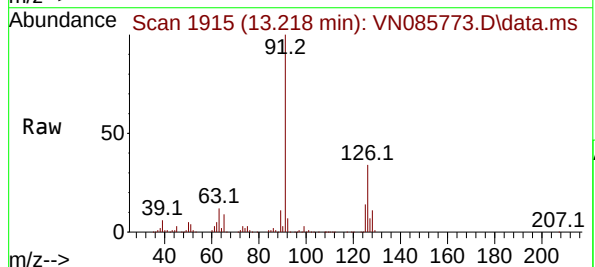
Manual Integrations
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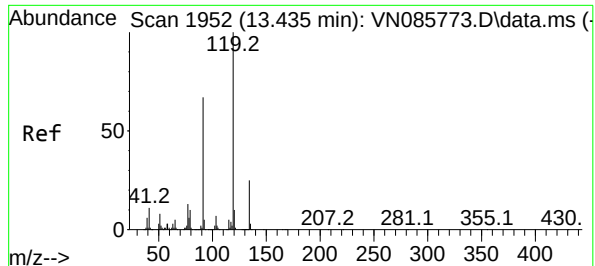
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#82
4-Chlorotoluene
Concen: 51.139 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion: 91 Resp: 604612
Ion Ratio Lower Upper
91 100
126 32.9 16.4 49.4





#83

tert-Butylbenzene

Concen: 54.933 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 58649

Ion Ratio Lower Upper

119 100

91 65.0 32.5 97.5

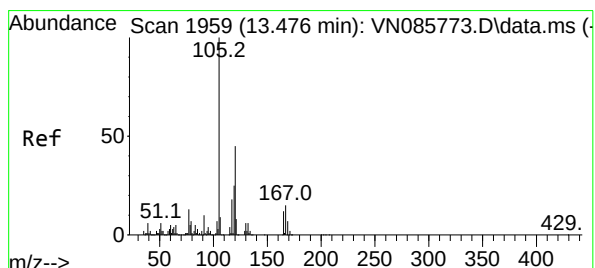
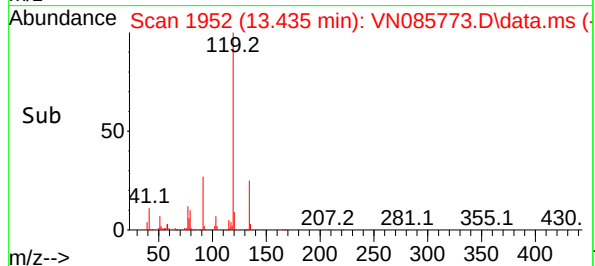
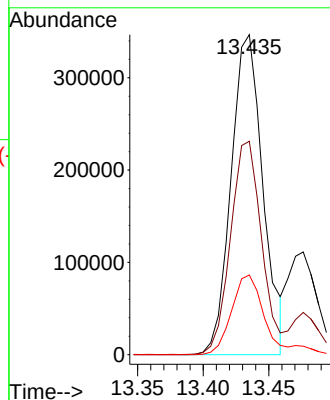
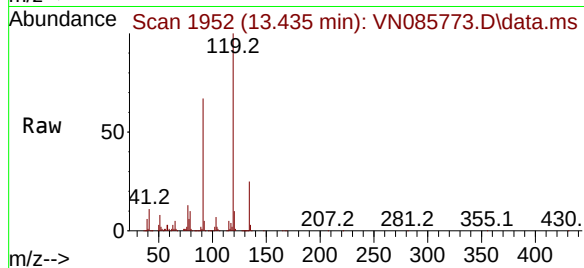
134 26.6 13.3 39.9

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 55.748 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085773.D

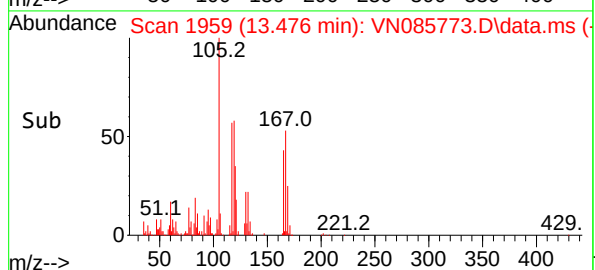
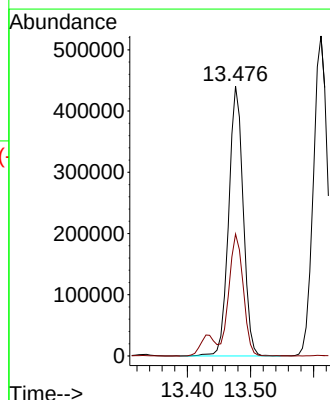
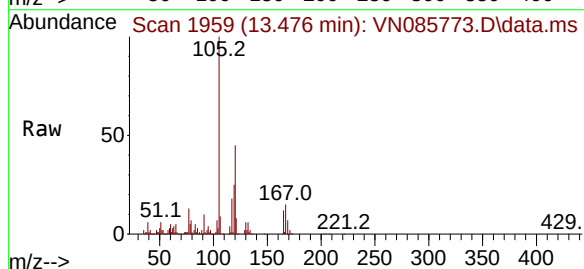
Acq: 18 Feb 2025 11:32

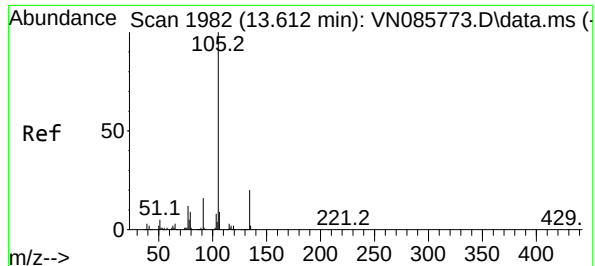
Tgt Ion:105 Resp: 700260

Ion Ratio Lower Upper

105 100

120 44.9 22.4 67.3





#85

sec-Butylbenzene

Concen: 55.099 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 83114

Ion Ratio Lower Upper

105 100

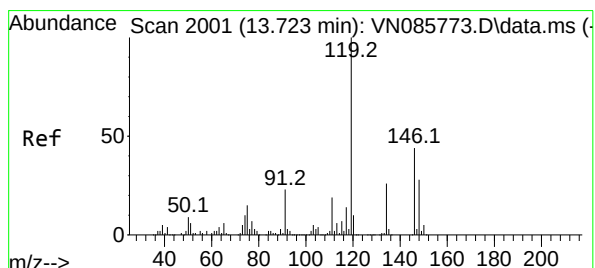
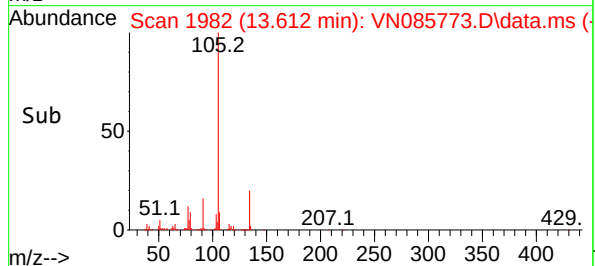
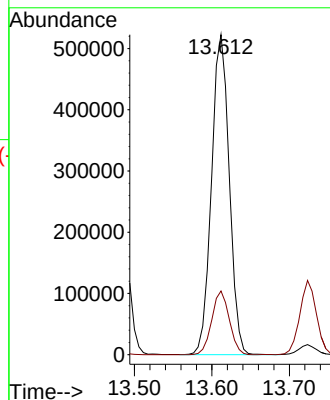
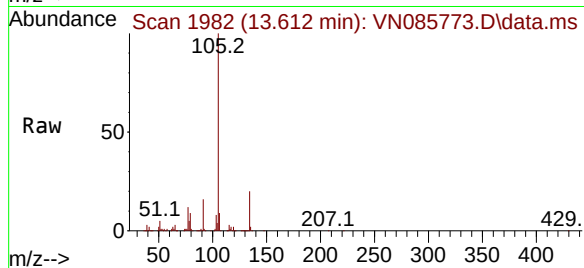
134 19.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 50.103 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

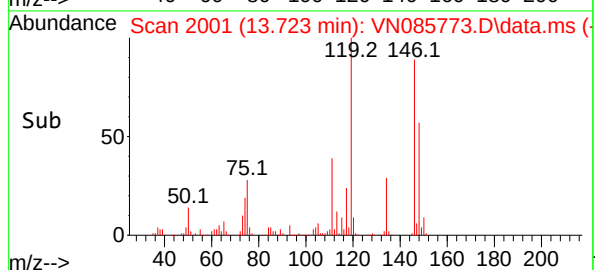
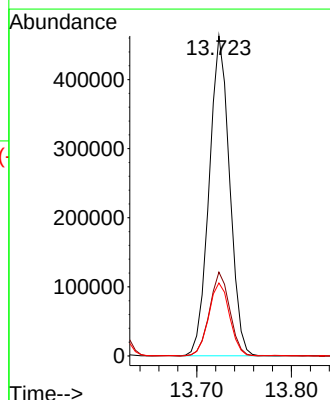
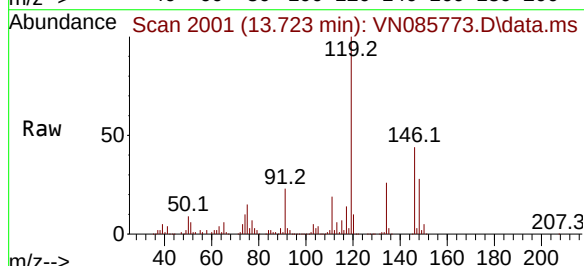
Tgt Ion:119 Resp: 692641

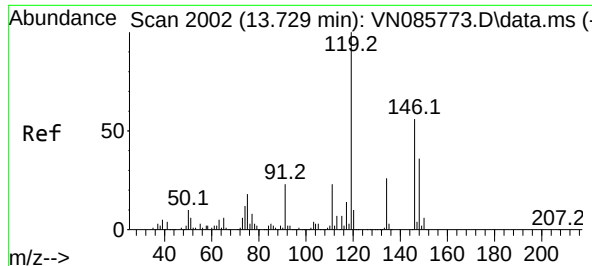
Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

91 23.4 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 47.154 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

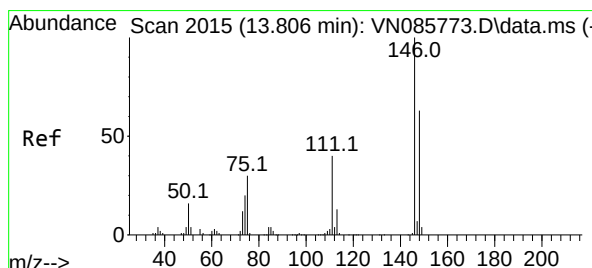
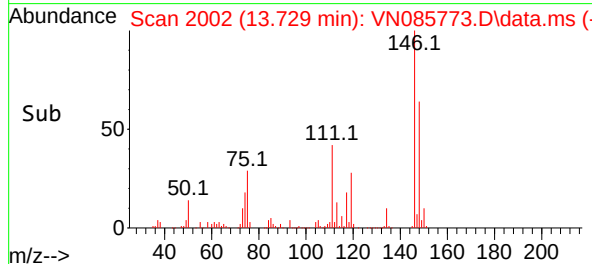
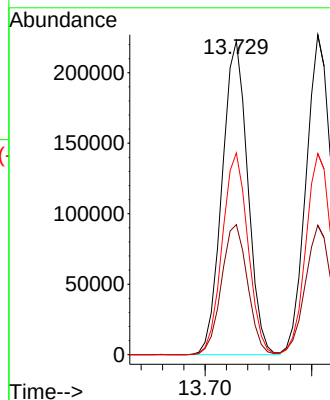
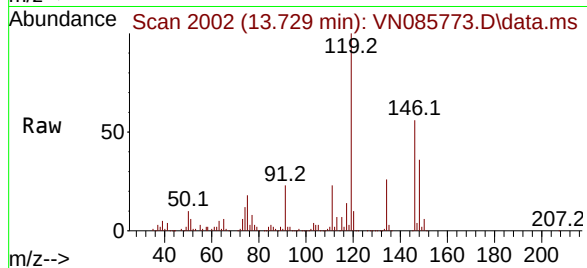
VSTDICCC050

Tgt Ion:146	Resp:	372004
Ion Ratio	Lower	Upper
146	100	
111	42.2	21.1 63.3
148	64.3	32.1 96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 46.340 ug/l

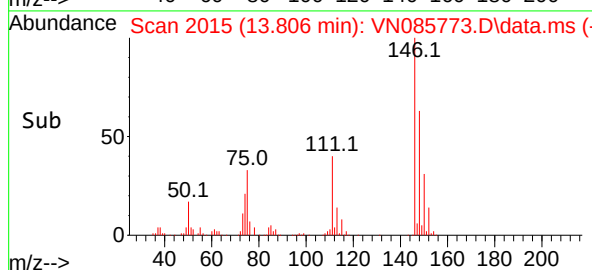
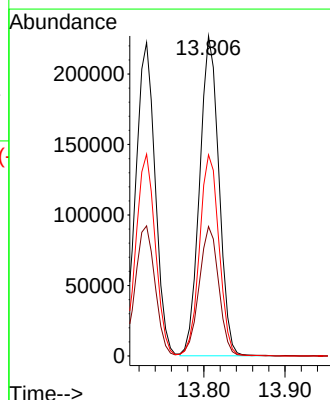
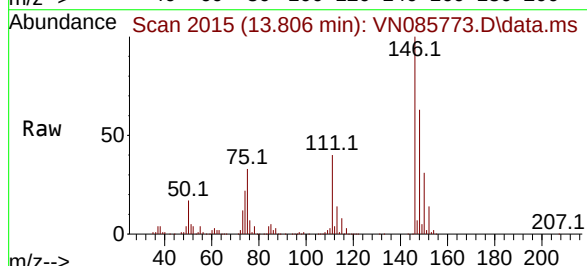
RT: 13.806 min Scan# 2015

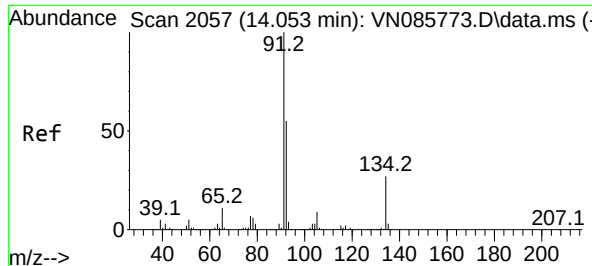
Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Tgt Ion:146	Resp:	374700
Ion Ratio	Lower	Upper
146	100	
111	40.9	20.4 61.3
148	63.6	31.8 95.4





#89

n-Butylbenzene

Concen: 54.197 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

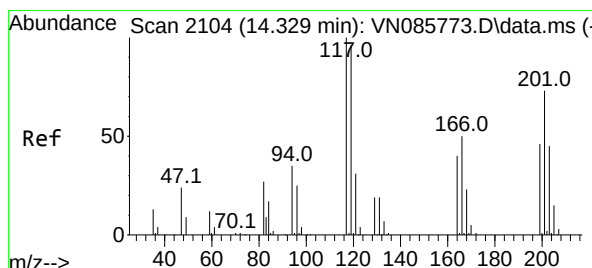
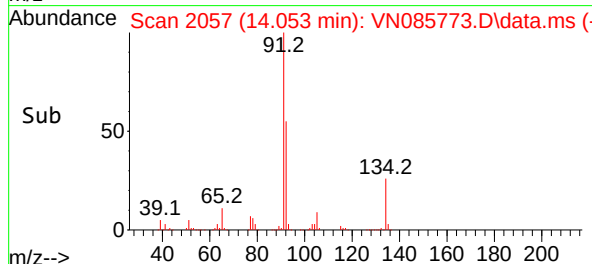
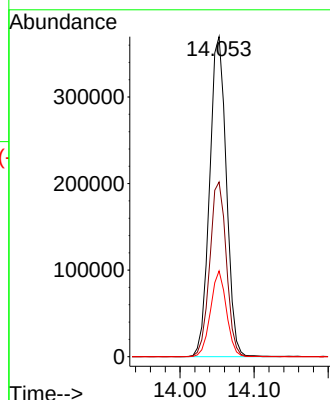
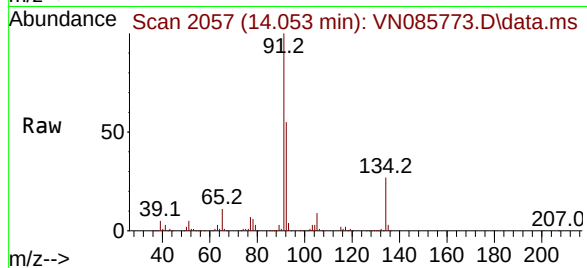
VSTDICCC050

Tgt Ion:	91	Resp:	58044
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.1	81.3
134	25.4	12.7	38.1

Manual Integrations
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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#90

Hexachloroethane

Concen: 46.708 ug/l

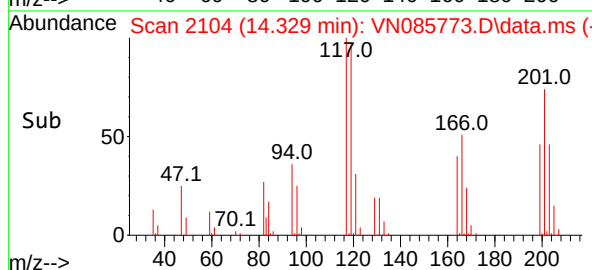
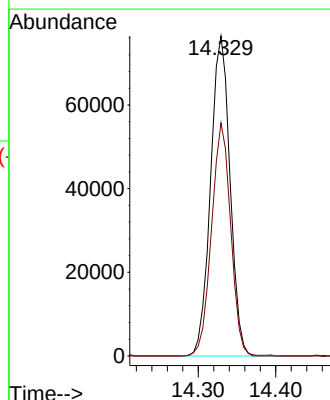
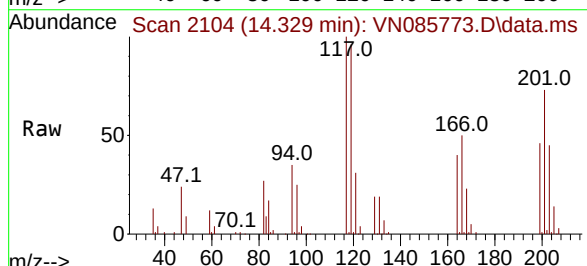
RT: 14.329 min Scan# 2104

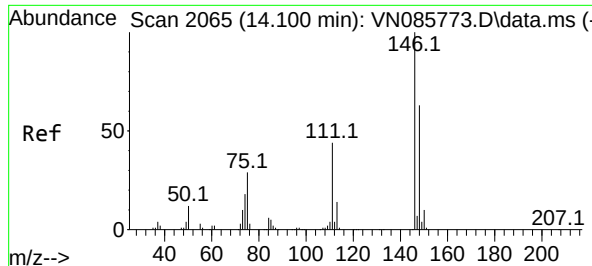
Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Tgt Ion:	117	Resp:	133438
Ion	Ratio	Lower	Upper
117	100		
201	71.3	35.6	106.9





#91

1,2-Dichlorobenzene

Concen: 47.211 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 358159

Ion Ratio Lower Upper

146 100

111 42.9 21.4 64.3

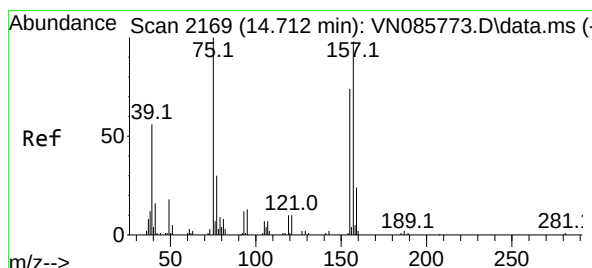
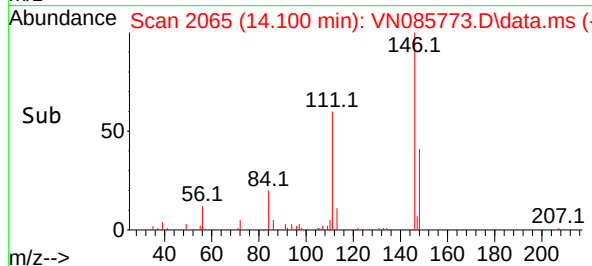
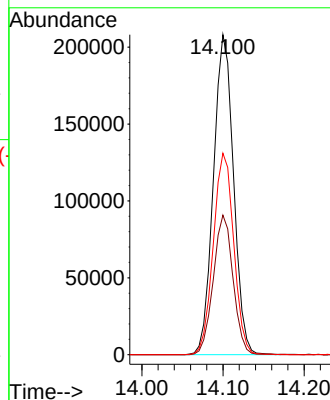
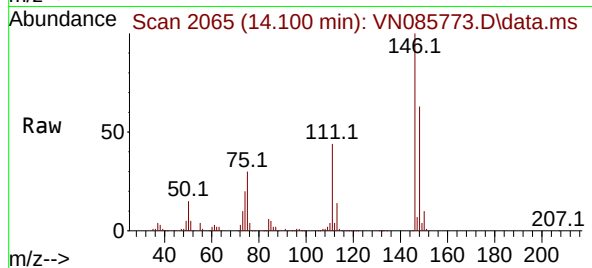
148 64.1 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.611 ug/l

RT: 14.712 min Scan# 2169

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

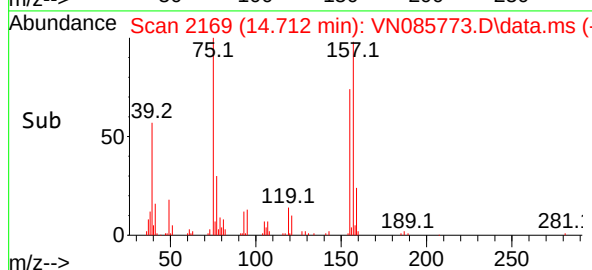
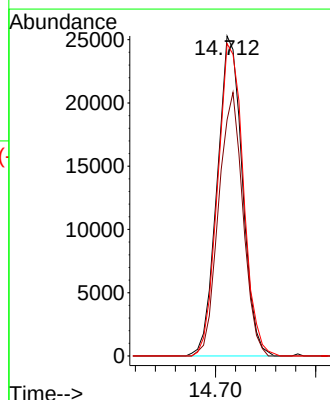
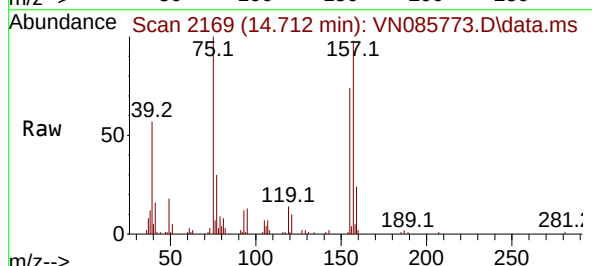
Tgt Ion: 75 Resp: 43935

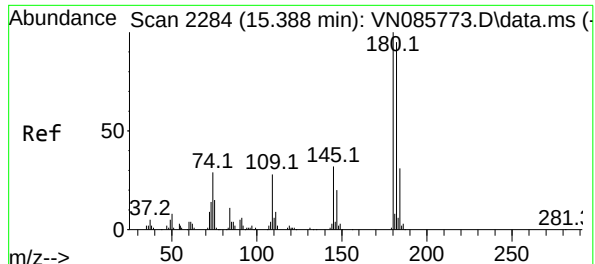
Ion Ratio Lower Upper

75 100

155 79.7 39.9 119.6

157 99.8 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 50.473 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 182458

Ion Ratio Lower Upper

180 100

182 94.6 47.3 141.9

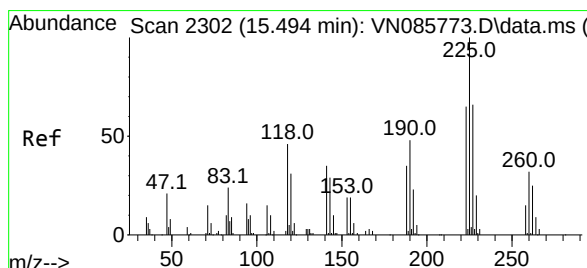
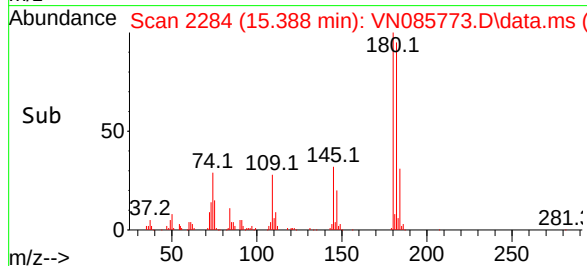
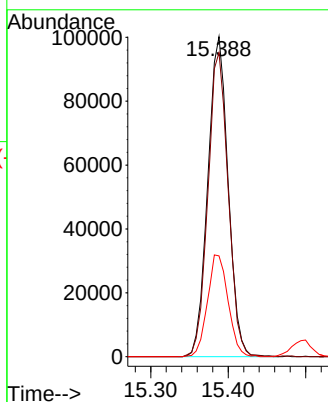
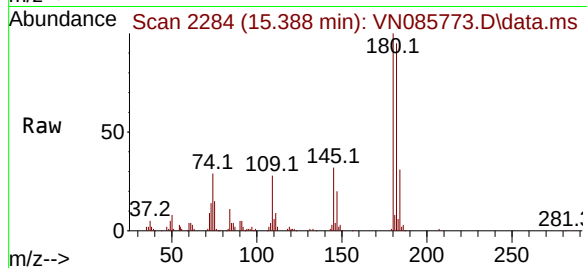
145 32.3 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

Concen: 43.899 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. 0.000 min

Lab File: VN085773.D

Acq: 18 Feb 2025 11:32

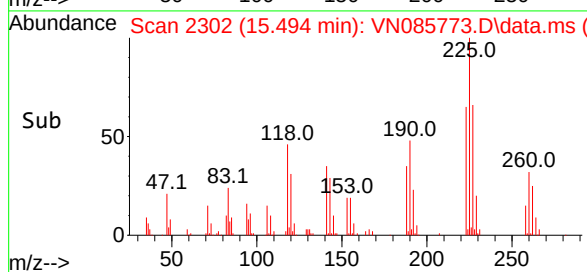
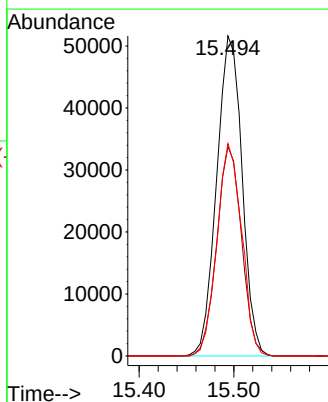
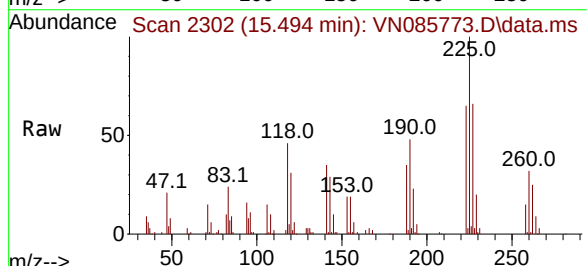
Tgt Ion:225 Resp: 96444

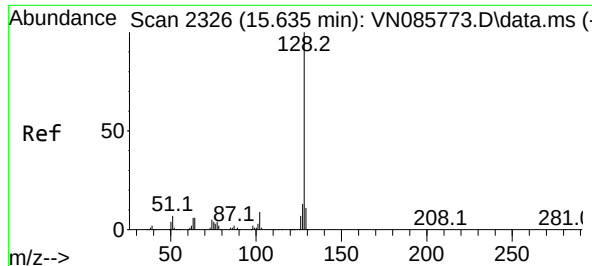
Ion Ratio Lower Upper

225 100

223 63.7 31.9 95.5

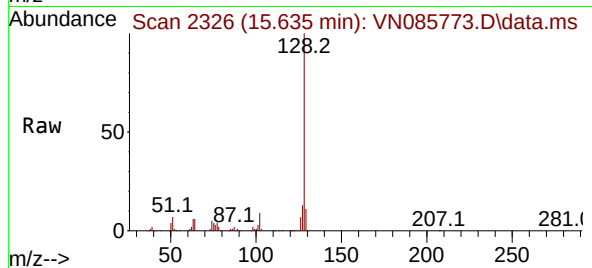
227 64.4 32.2 96.6





#95
Naphthalene
Concen: 53.265 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

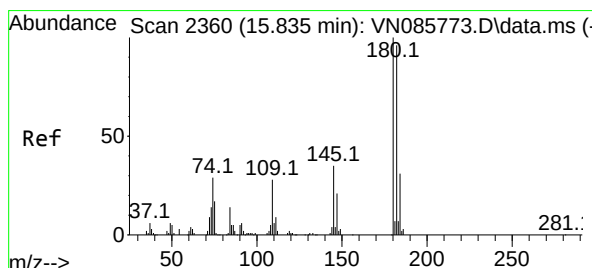
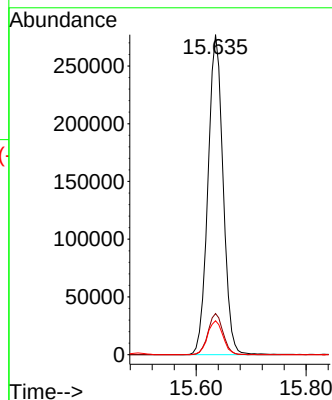
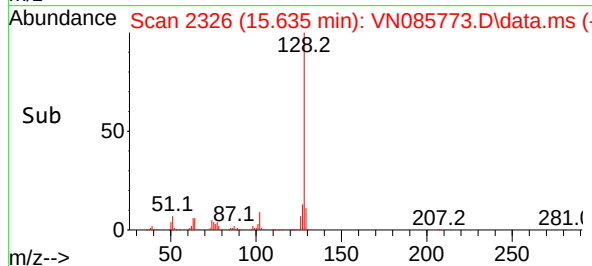
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 52862
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.7 13.1

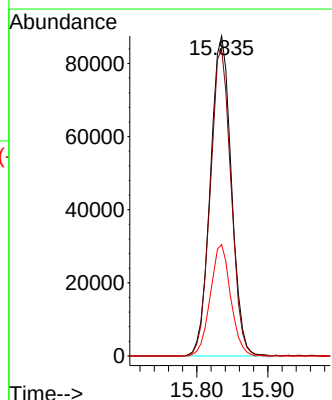
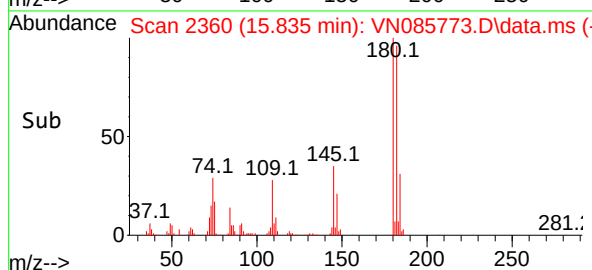
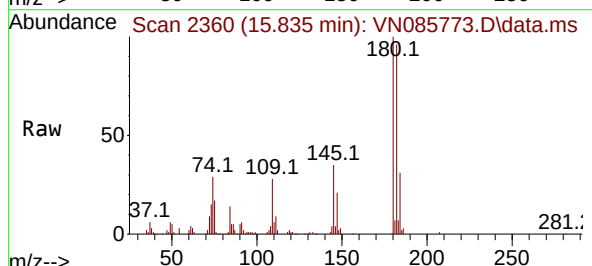
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.473 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085773.D
Acq: 18 Feb 2025 11:32

Tgt Ion:180 Resp: 179544
Ion Ratio Lower Upper
180 100
182 94.5 47.3 141.8
145 33.7 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085775.D
 Acq On : 18 Feb 2025 12:20
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Feb 19 03:17:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	235331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	397776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	339681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151740	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	27654	9.064	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.120%#		
35) Dibromofluoromethane	8.159	113	23353	8.972	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	17.940%#		
50) Toluene-d8	10.565	98	80889	8.542	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	17.080%#		
62) 4-Bromofluorobenzene	12.841	95	25697	8.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	16.480%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	36657	11.452	ug/l	96
3) Chloromethane	2.359	50	34946	10.880	ug/l	97
4) Vinyl Chloride	2.518	62	37462	11.015	ug/l	99
5) Bromomethane	2.965	94	25562	11.755	ug/l	100
6) Chloroethane	3.124	64	24265	10.772	ug/l	95
7) Trichlorofluoromethane	3.500	101	53380	10.841	ug/l	99
8) Diethyl Ether	3.959	74	17236	10.819	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	31724	11.146	ug/l	96
10) Methyl Iodide	4.589	142	37913	10.806	ug/l	93
11) Tert butyl alcohol	5.506	59	21584	57.519	ug/l	99
12) 1,1-Dichloroethene	4.342	96	27815	10.778	ug/l	97
13) Acrolein	4.177	56	27644	49.677	ug/l	98
14) Allyl chloride	5.024	41	36624	10.809	ug/l	98
15) Acrylonitrile	5.718	53	65440	53.643	ug/l	99
16) Acetone	4.424	43	51172	53.007	ug/l	97
17) Carbon Disulfide	4.712	76	84915	11.102	ug/l	99
18) Methyl Acetate	5.024	43	37354	11.250	ug/l	98
19) Methyl tert-butyl Ether	5.788	73	80686	10.521	ug/l	96
20) Methylene Chloride	5.271	84	33412	10.762	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	29226	10.517	ug/l	91
22) Diisopropyl ether	6.671	45	83002	10.841	ug/l	95
23) Vinyl Acetate	6.600	43	279697m	53.519	ug/l	
24) 1,1-Dichloroethane	6.565	63	57247	10.999	ug/l	97
25) 2-Butanone	7.477	43	77791	54.772	ug/l	98
26) 2,2-Dichloropropane	7.482	77	50333	10.876	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	34806	10.802	ug/l	98
28) Bromochloromethane	7.812	49	16276	7.609	ug/l #	99
29) Tetrahydrofuran	7.835	42	50478	55.039	ug/l	98
30) Chloroform	7.959	83	59719	10.980	ug/l	96
31) Cyclohexane	8.253	56	45995	10.555	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	51254	10.595	ug/l	98
36) 1,1-Dichloropropene	8.365	75	38983	10.582	ug/l	99
37) Ethyl Acetate	7.553	43	30665	10.115	ug/l	96
38) Carbon Tetrachloride	8.353	117	46420	10.605	ug/l	97
39) Methylcyclohexane	9.594	83	35475	9.803	ug/l #	85
40) Benzene	8.606	78	124704	10.562	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085775.D
 Acq On : 18 Feb 2025 12:20
 Operator : JC\MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	16811	10.373	ug/l	99
42) 1,2-Dichloroethane	8.665	62	41912	10.898	ug/l	98
43) Isopropyl Acetate	8.682	43	60794	11.001	ug/l	95
44) Trichloroethene	9.347	130	30561	10.542	ug/l	88
45) 1,2-Dichloropropane	9.618	63	30619	10.744	ug/l	100
46) Dibromomethane	9.706	93	21085	10.489	ug/l	98
47) Bromodichloromethane	9.882	83	45413	10.559	ug/l	95
48) Methyl methacrylate	9.676	41	22058	9.798	ug/l	96
49) 1,4-Dioxane	9.688	88	8936	208.723	ug/l #	95
51) 4-Methyl-2-Pentanone	10.441	43	155789	53.302	ug/l	98
52) Toluene	10.623	92	73516	10.622	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	41230	10.367	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	46300	10.617	ug/l	95
55) 1,1,2-Trichloroethane	11.012	97	29408	10.687	ug/l	96
56) Ethyl methacrylate	10.871	69	35641	10.274	ug/l	99
57) 1,3-Dichloropropane	11.159	76	48905	10.647	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	67791	47.108	ug/l	97
59) 2-Hexanone	11.188	43	105782	52.609	ug/l	97
60) Dibromochloromethane	11.353	129	34267	10.694	ug/l	98
61) 1,2-Dibromoethane	11.465	107	28789	11.073	ug/l	97
64) Tetrachloroethene	11.100	164	28564	10.855	ug/l	92
65) Chlorobenzene	11.888	112	82365	10.585	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	30133	10.773	ug/l	99
67) Ethyl Benzene	11.959	91	124323	10.199	ug/l	98
68) m/p-Xylenes	12.065	106	98574	21.290	ug/l	98
69) o-Xylene	12.394	106	45263	10.287	ug/l	100
70) Styrene	12.406	104	72044	9.994	ug/l	98
71) Bromoform	12.576	173	21882	10.529	ug/l #	98
73) Isopropylbenzene	12.688	105	109944	10.576	ug/l	99
74) N-amyl acetate	12.488	43	38318	10.452	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	39575	11.063	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	34754m	10.425	ug/l	
77) Bromobenzene	12.976	156	31066	11.061	ug/l	98
78) n-propylbenzene	13.029	91	125206	10.517	ug/l	99
79) 2-Chlorotoluene	13.117	91	86237	10.841	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	90718	10.713	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	11901	10.302	ug/l	97
82) 4-Chlorotoluene	13.217	91	86106	10.919	ug/l	100
83) tert-Butylbenzene	13.435	119	73803	10.364	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	89125	10.638	ug/l	99
85) sec-Butylbenzene	13.611	105	107253	10.660	ug/l	99
86) p-Isopropyltoluene	13.723	119	84249	10.256	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	56944	10.822	ug/l	97
88) 1,4-Dichlorobenzene	13.806	146	57166	10.600	ug/l	99
89) n-Butylbenzene	14.053	91	70940	9.931	ug/l	96
90) Hexachloroethane	14.329	117	19282	10.119	ug/l	94
91) 1,2-Dichlorobenzene	14.100	146	53647	10.602	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	7223	10.996	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	25090	10.406	ug/l	98
94) Hexachlorobutadiene	15.494	225	15278	10.426	ug/l	95
95) Naphthalene	15.635	128	65549	9.902	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	25612	10.581	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085775.D
Acq On : 18 Feb 2025 12:20
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:17:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

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

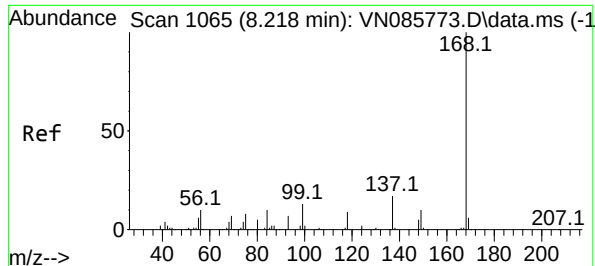
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025





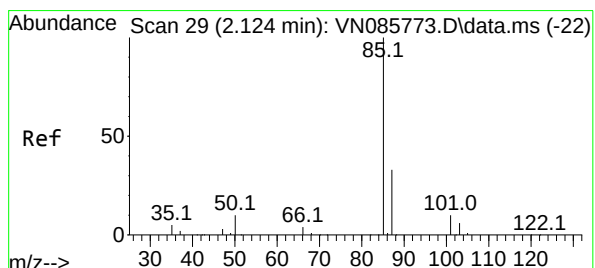
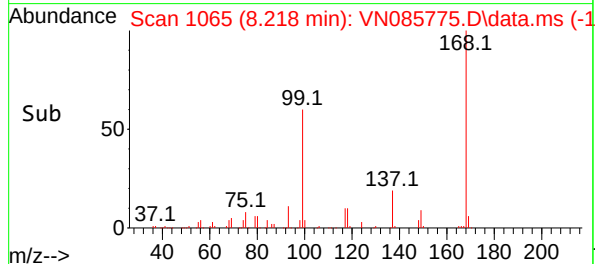
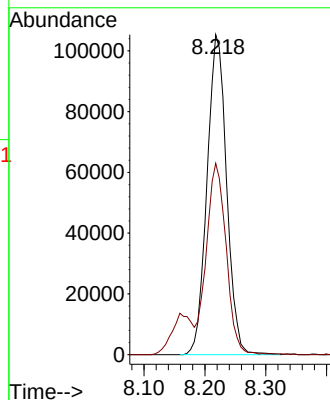
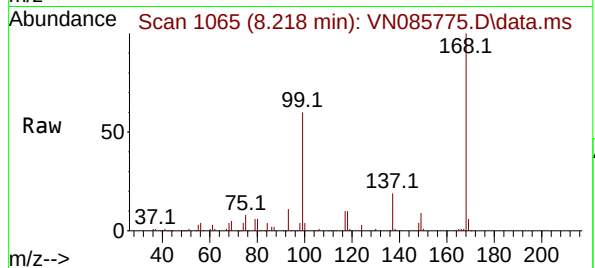
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 23533
Ion Ratio Lower Upper
168 100
99 59.5 47.9 71.9

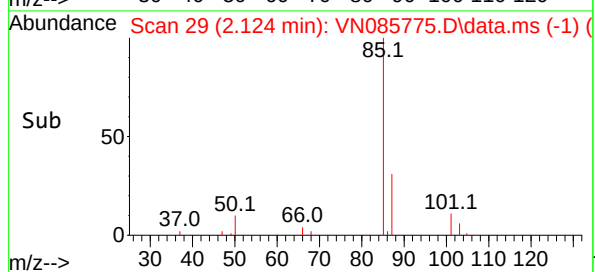
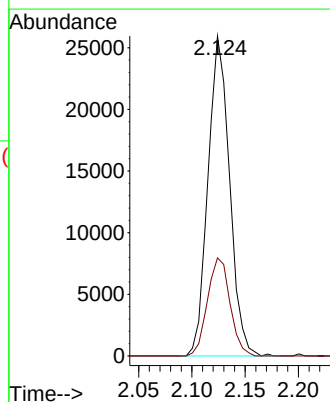
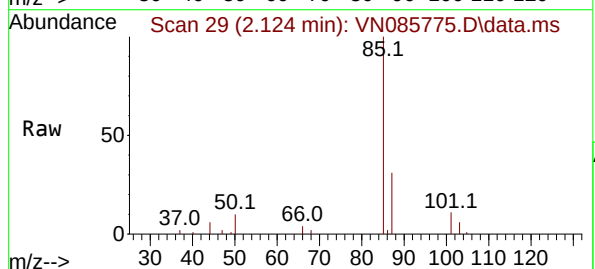
Manual Integrations
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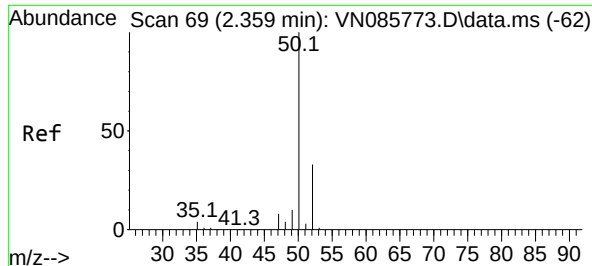
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 11.452 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 85 Resp: 36657
Ion Ratio Lower Upper
85 100
87 30.6 16.4 49.2





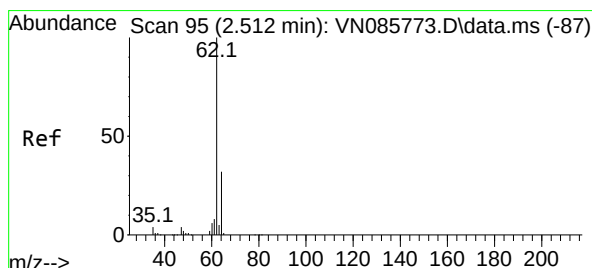
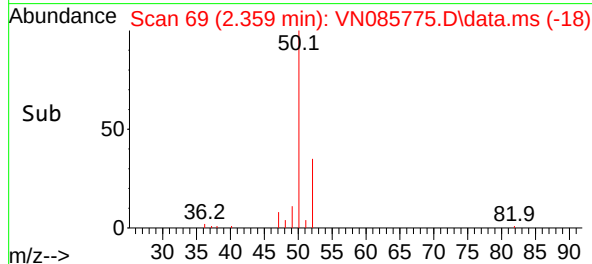
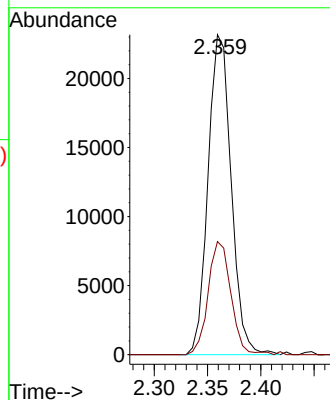
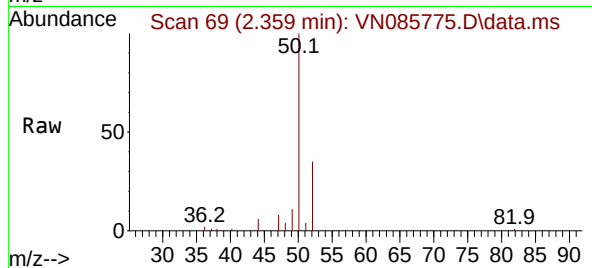
#3
Chloromethane
Concen: 10.880 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
Client Sample Id :
VSTDIC010

Tgt Ion: 50 Resp: 34940
Ion Ratio Lower Upper
50 100
52 35.4 26.7 40.1

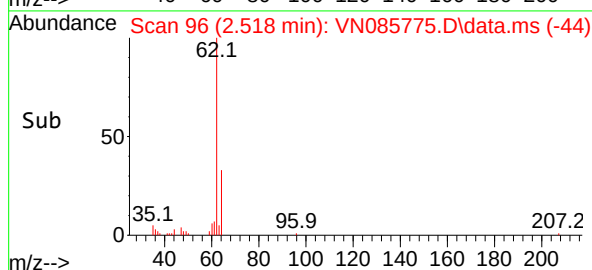
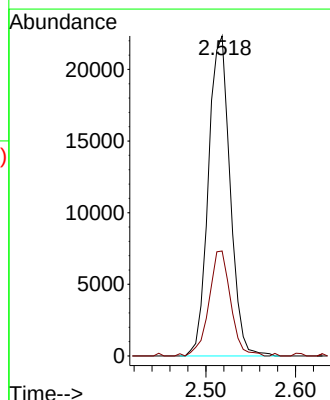
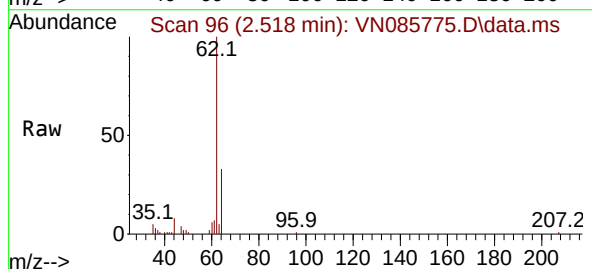
Manual Integrations
APPROVED

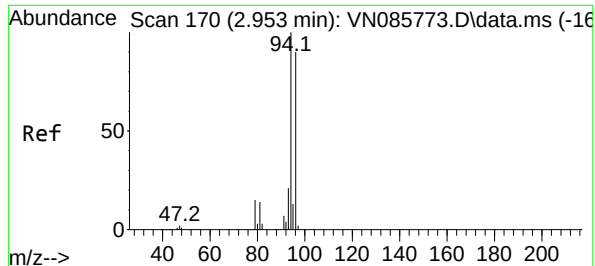
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#4
Vinyl Chloride
Concen: 11.015 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 62 Resp: 37462
Ion Ratio Lower Upper
62 100
64 32.8 25.9 38.9





#5

Bromomethane

Concen: 11.755 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 94 Resp: 2556

Ion Ratio Lower Upper

94 100

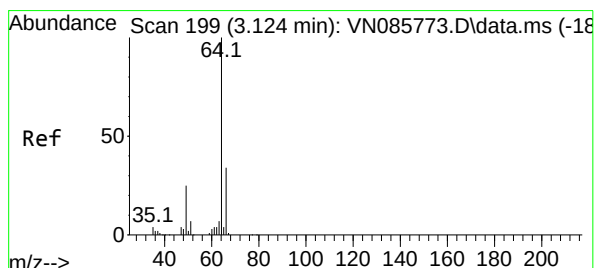
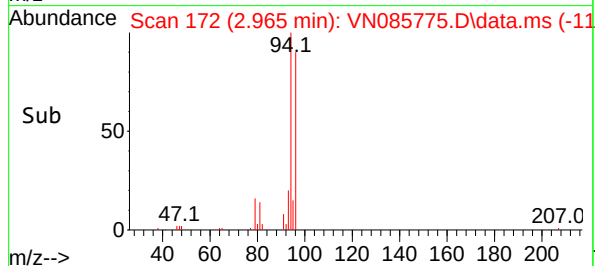
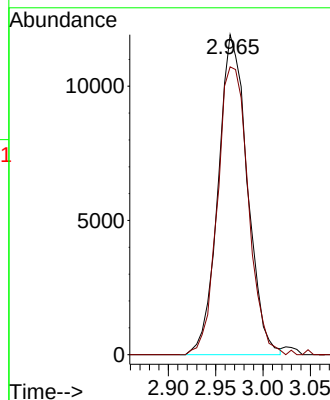
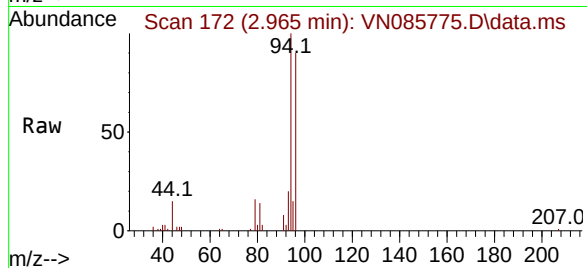
96 89.9 71.7 107.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#6

Chloroethane

Concen: 10.772 ug/l

RT: 3.124 min Scan# 199

Delta R.T. -0.000 min

Lab File: VN085775.D

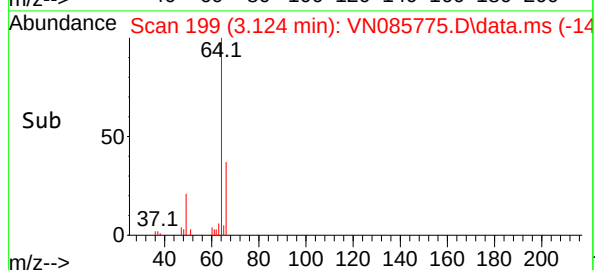
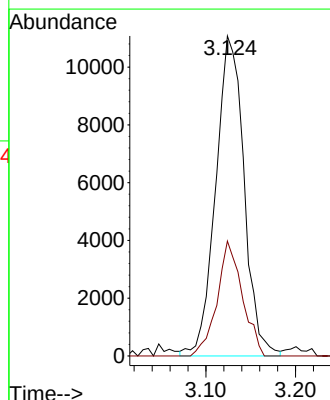
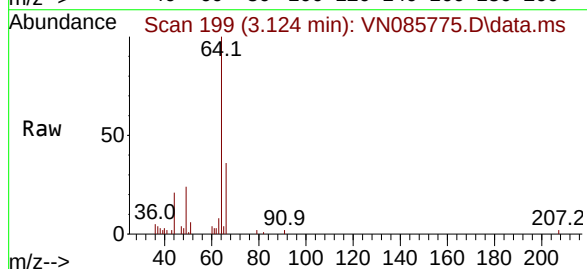
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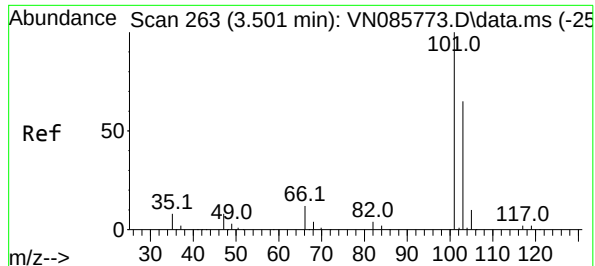
Tgt Ion: 64 Resp: 24265

Ion Ratio Lower Upper

64 100

66 36.5 27.0 40.6





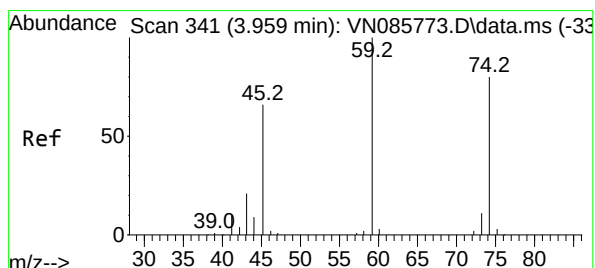
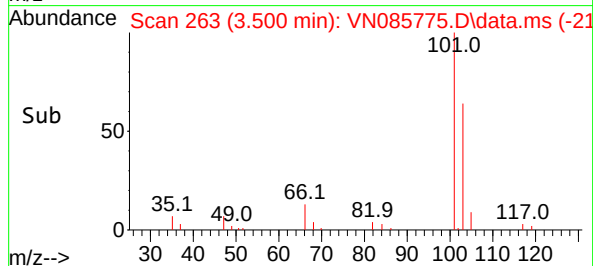
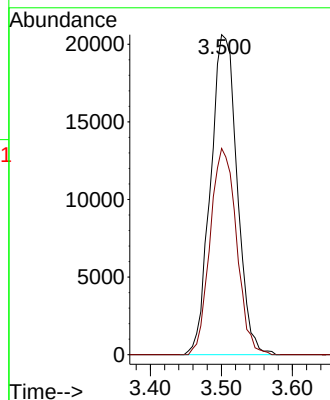
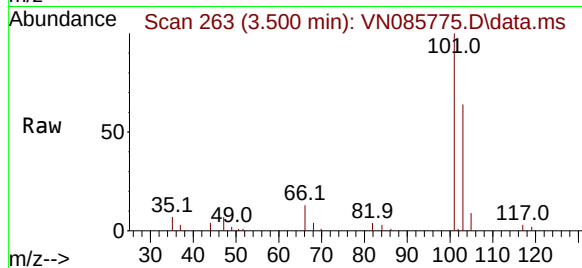
#7
Trichlorofluoromethane
Concen: 10.841 ug/l
RT: 3.500 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 53380
Ion Ratio Lower Upper
101 100
103 64.4 52.2 78.4

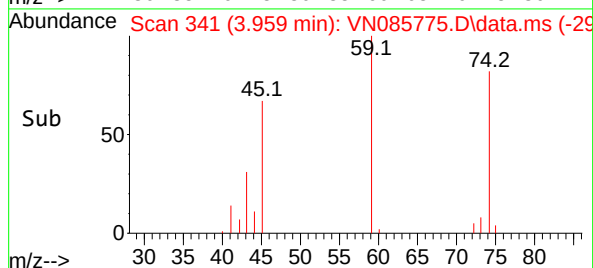
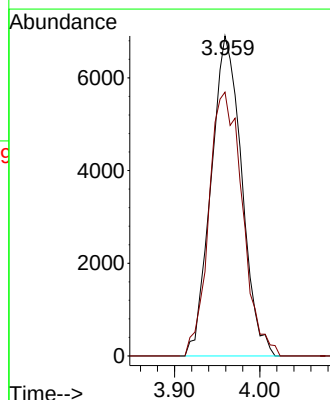
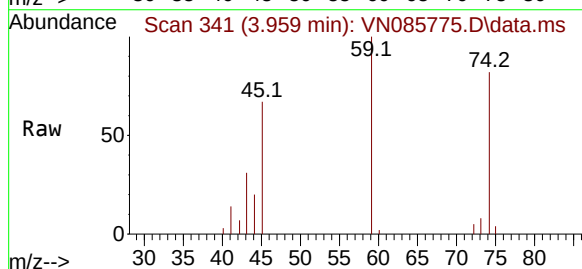
Manual Integrations
APPROVED

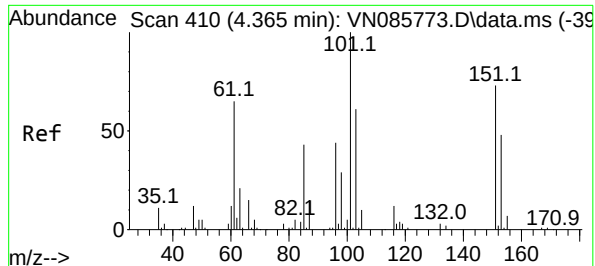
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#8
Diethyl Ether
Concen: 10.819 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 74 Resp: 17236
Ion Ratio Lower Upper
74 100
45 90.3 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.146 ug/l

RT: 4.371 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

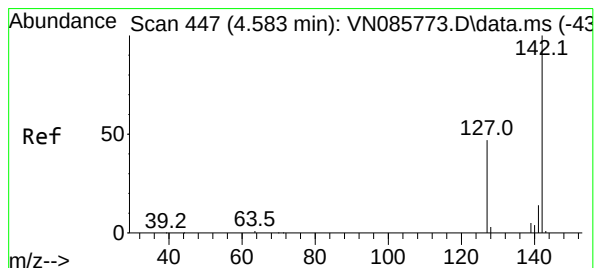
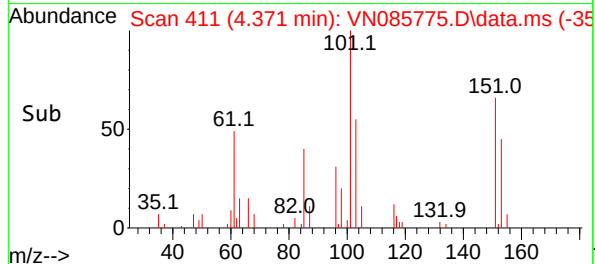
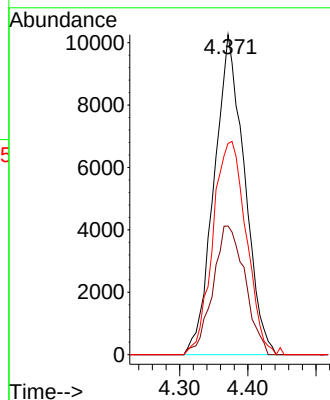
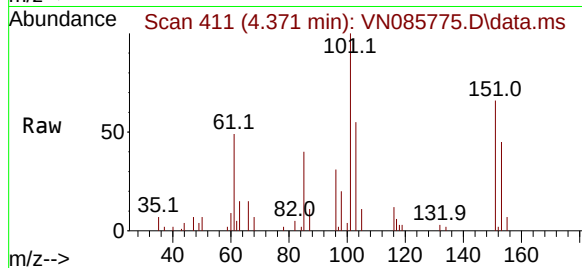
Tgt Ion:	101	Resp:	31724
Ion	Ratio	Lower	Upper
101	100		
85	42.7	35.7	53.5
151	73.2	61.4	92.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#10

Methyl Iodide

Concen: 10.806 ug/l

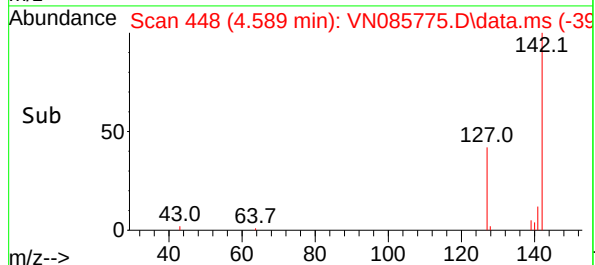
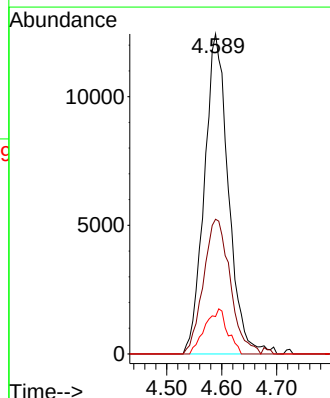
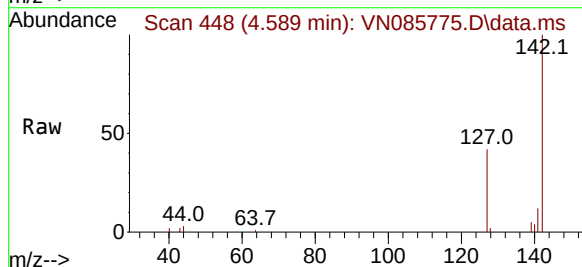
RT: 4.589 min Scan# 448

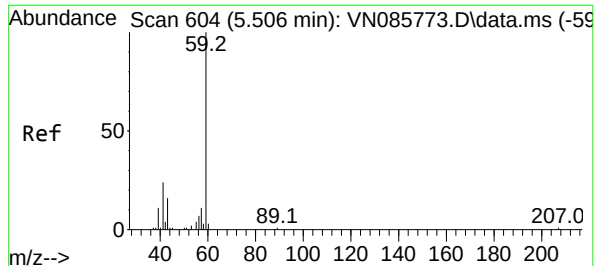
Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	142	Resp:	37913
Ion	Ratio	Lower	Upper
142	100		
127	42.1	37.6	56.4
141	11.7	11.4	17.2





#11

Tert butyl alcohol

Concen: 57.519 ug/l

RT: 5.506 min Scan# 604

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 59 Resp: 21584

Ion Ratio Lower Upper

59 100

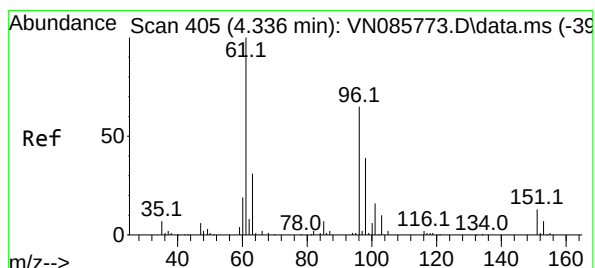
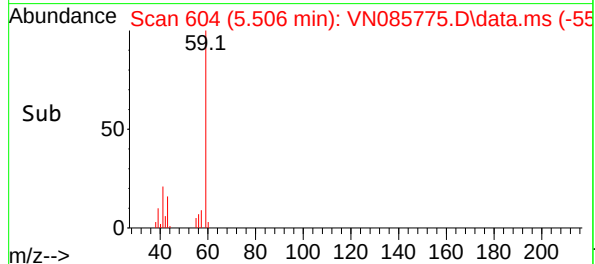
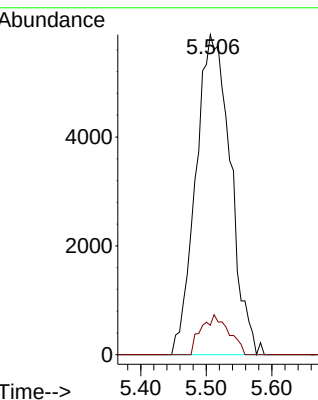
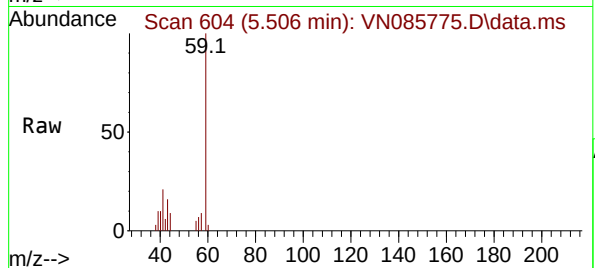
57 9.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#12

1,1-Dichloroethene

Concen: 10.778 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

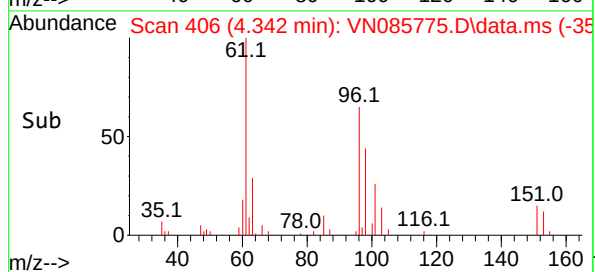
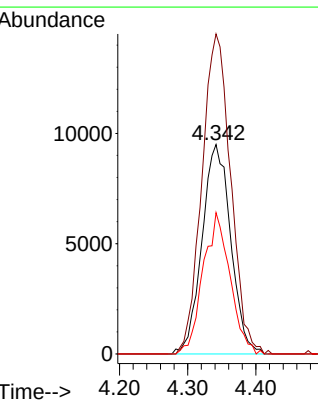
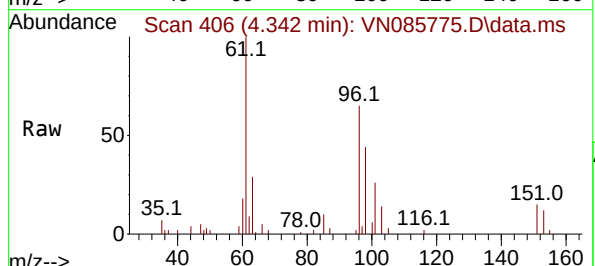
Tgt Ion: 96 Resp: 27815

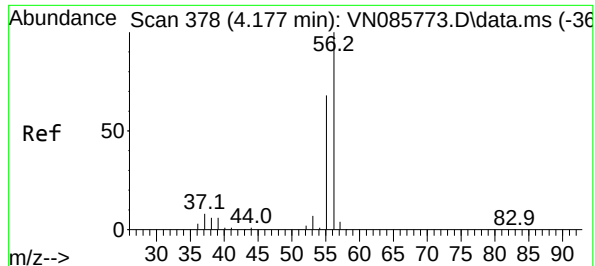
Ion Ratio Lower Upper

96 100

61 152.7 123.3 184.9

98 67.4 48.6 72.8





#13

Acrolein

Concen: 49.677 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 56 Resp: 27644

Ion Ratio Lower Upper

56 100

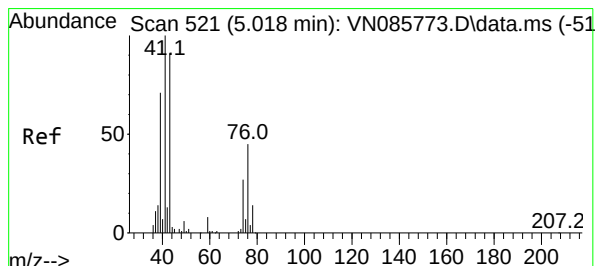
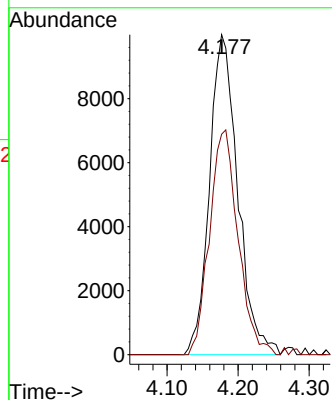
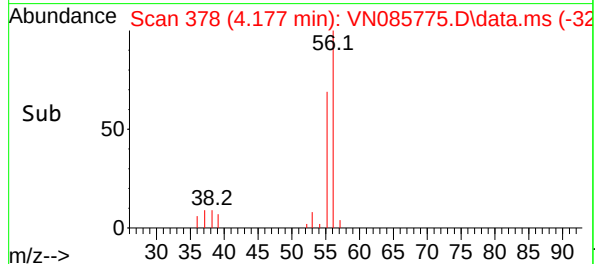
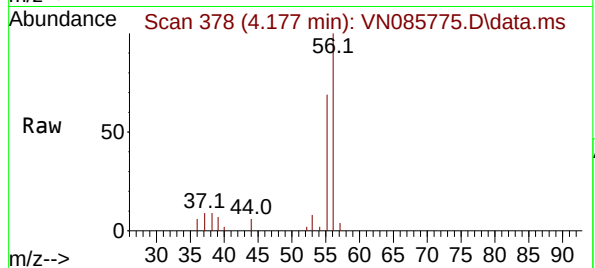
55 70.8 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 10.809 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

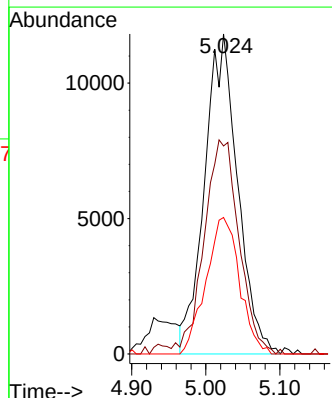
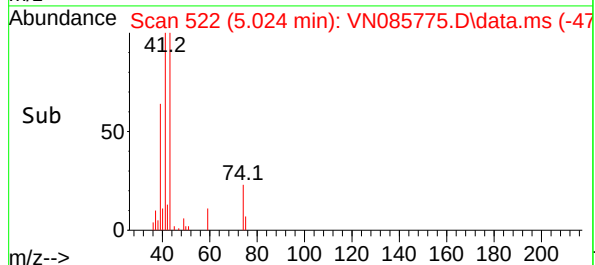
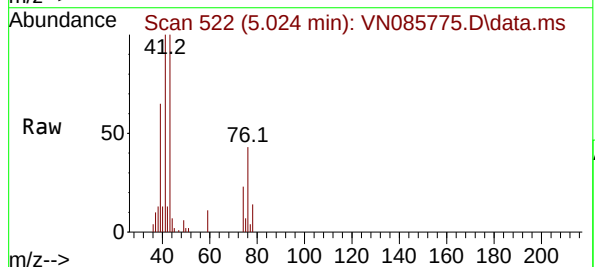
Tgt Ion: 41 Resp: 36624

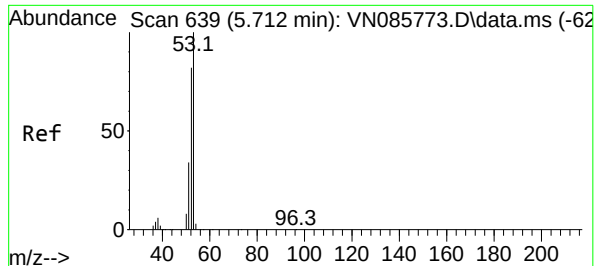
Ion Ratio Lower Upper

41 100

39 70.9 57.4 86.2

76 43.4 36.2 54.2





#15

Acrylonitrile

Concen: 53.643 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

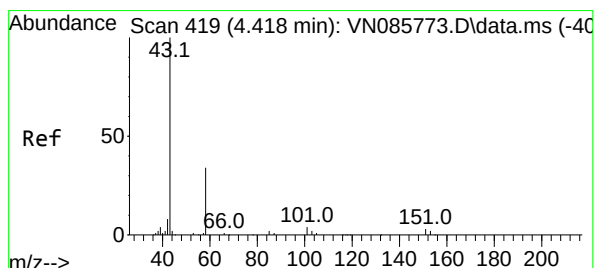
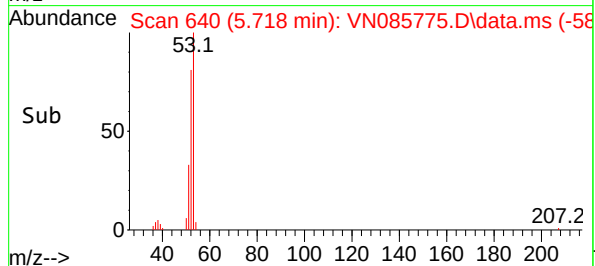
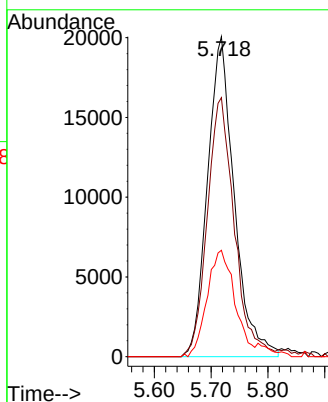
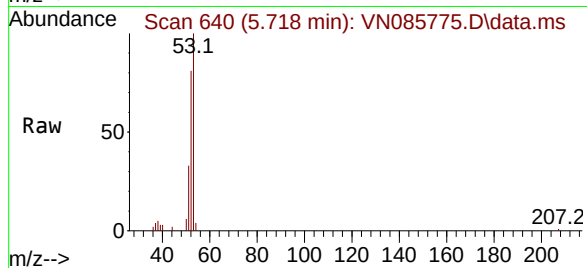
VSTDICC010

Tgt Ion: 53	Resp: 65440
Ion Ratio	Lower Upper
53 100	
52 81.7	65.8 98.6
51 34.5	28.6 42.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#16

Acetone

Concen: 53.007 ug/l

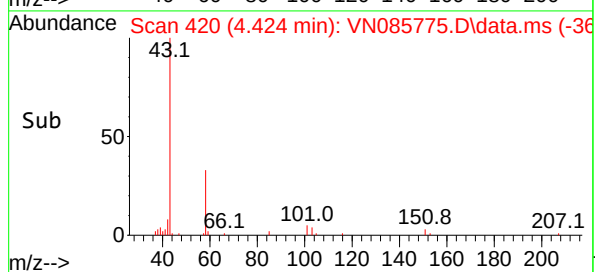
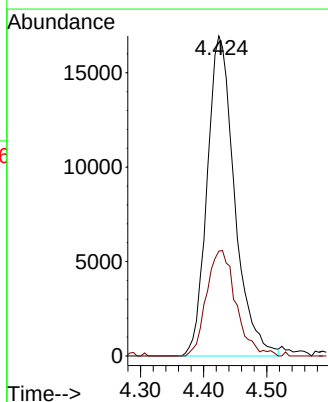
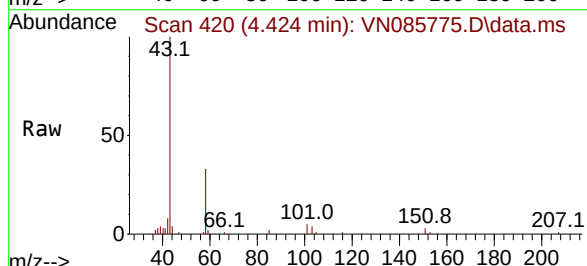
RT: 4.424 min Scan# 420

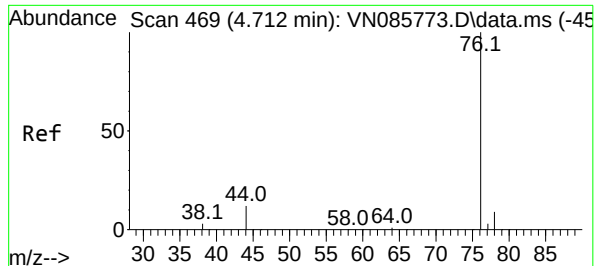
Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion: 43	Resp: 51172
Ion Ratio	Lower Upper
43 100	
58 32.7	27.5 41.3





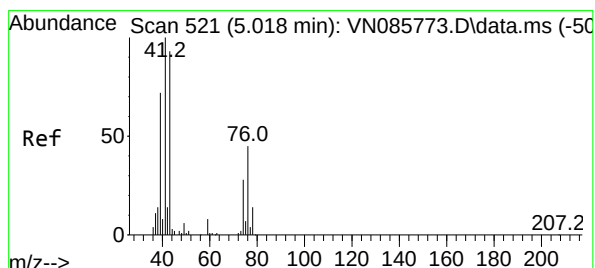
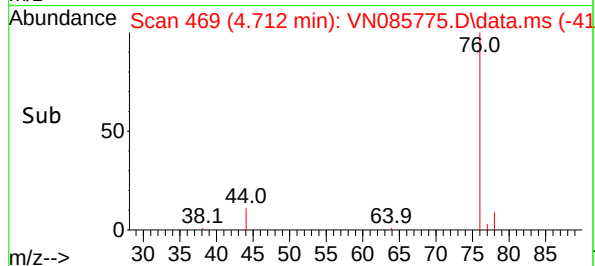
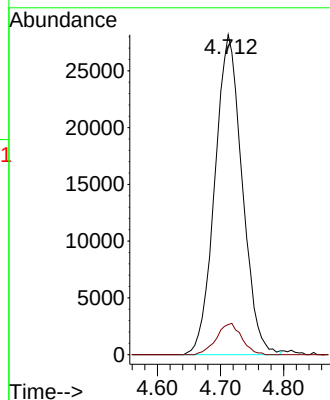
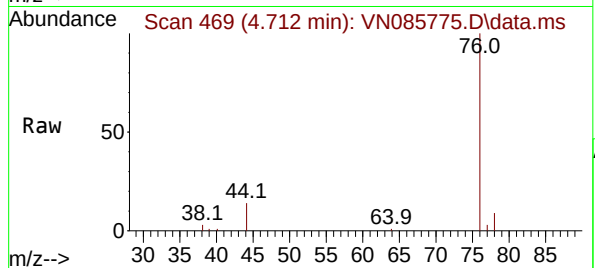
#17
Carbon Disulfide
Concen: 11.102 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 8491
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0

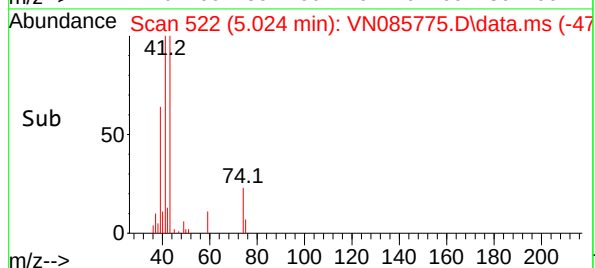
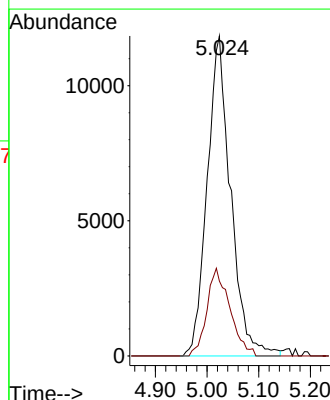
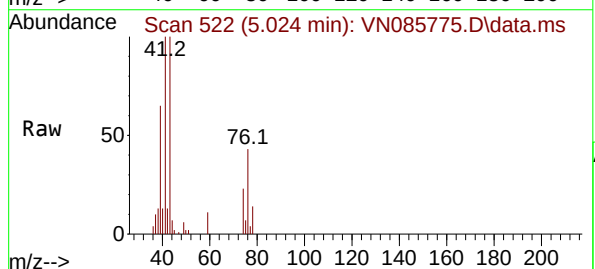
Manual Integrations
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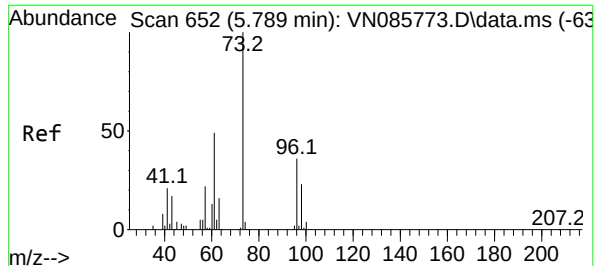
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#18
Methyl Acetate
Concen: 11.250 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 43 Resp: 37354
Ion Ratio Lower Upper
43 100
74 26.9 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 10.521 ug/l

RT: 5.788 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 8068

Ion Ratio Lower Upper

73 100

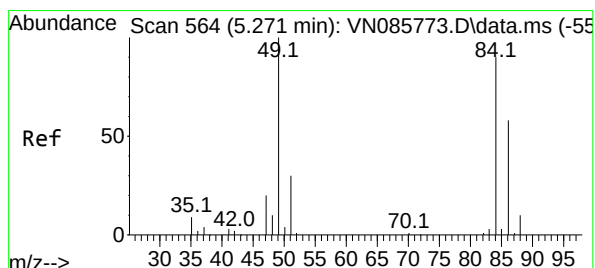
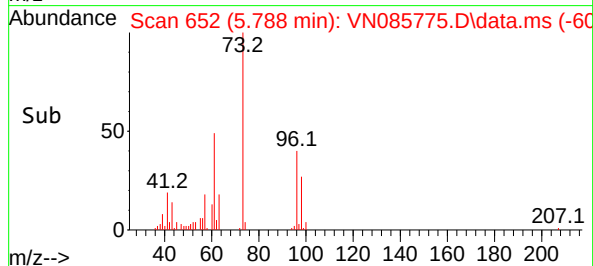
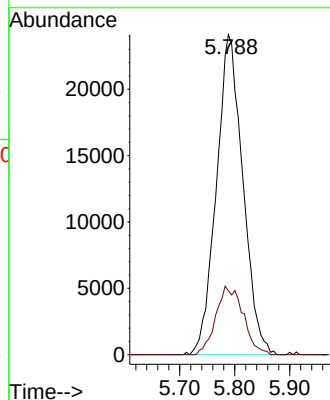
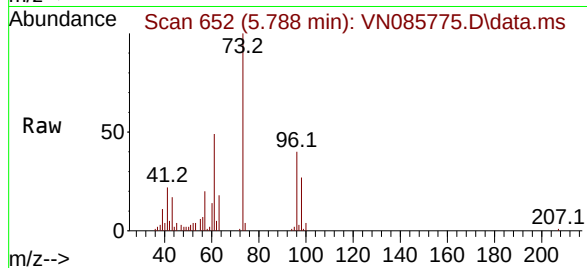
57 20.0 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#20

Methylene Chloride

Concen: 10.762 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion: 84 Resp: 33412

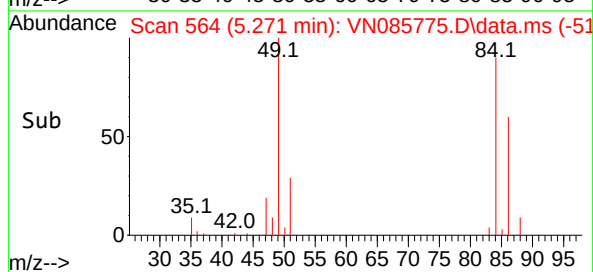
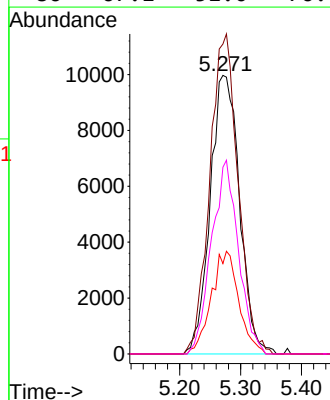
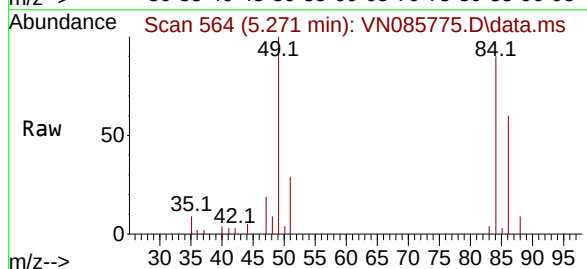
Ion Ratio Lower Upper

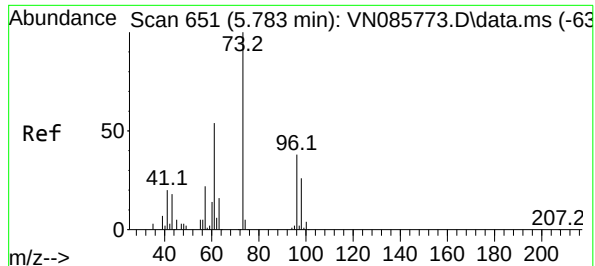
84 100

49 111.3 88.4 132.6

51 32.4 26.6 40.0

86 67.1 51.0 76.6





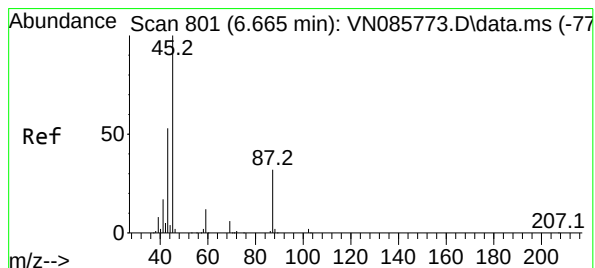
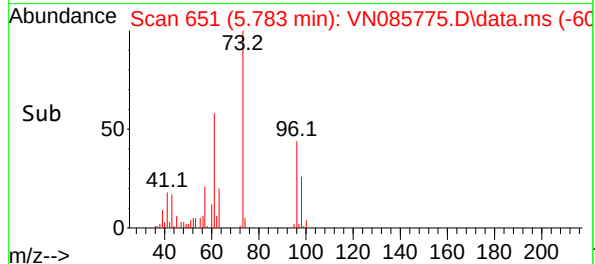
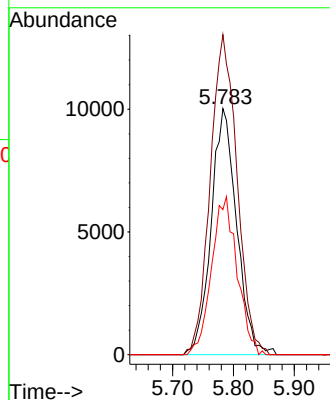
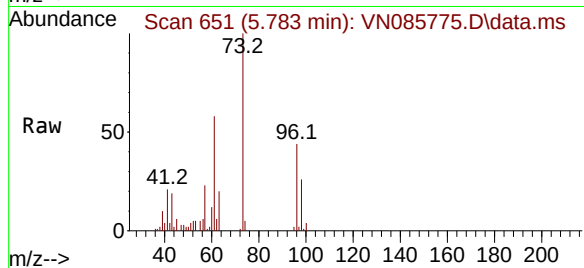
#21
trans-1,2-Dichloroethene
Concen: 10.517 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion: 96 Resp: 29220
Ion Ratio Lower Upper
96 100
61 130.0 112.6 168.8
98 59.0 53.3 79.9

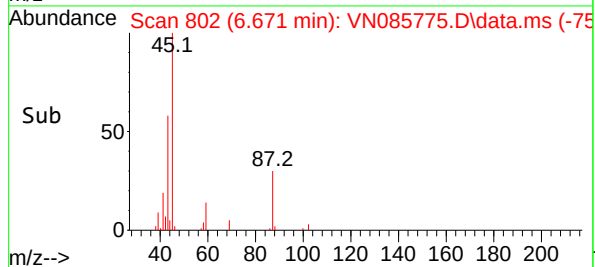
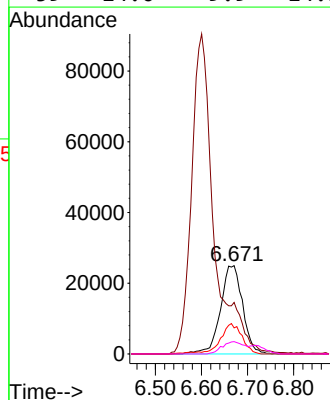
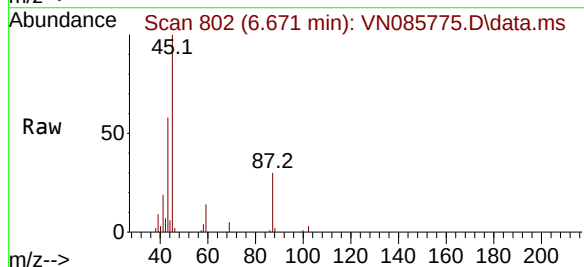
Manual Integrations
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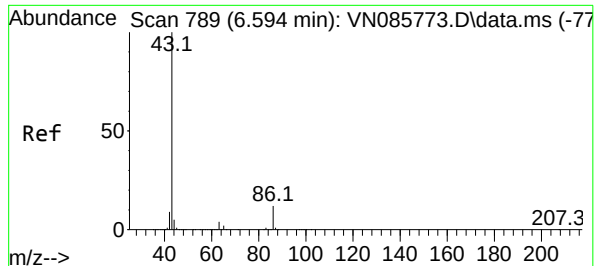
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 10.841 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 45 Resp: 83002
Ion Ratio Lower Upper
45 100
43 56.6 42.6 64.0
87 29.5 25.8 38.8
59 14.0 9.9 14.9





#23

Vinyl Acetate

Concen: 53.519 ug/l m

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 27969

Ion Ratio Lower Upper

43

100

86

11.7

9.8

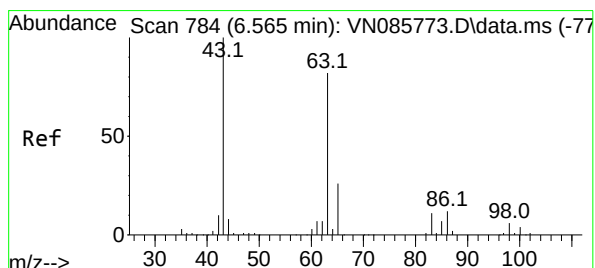
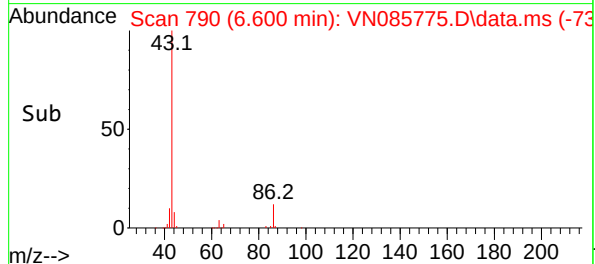
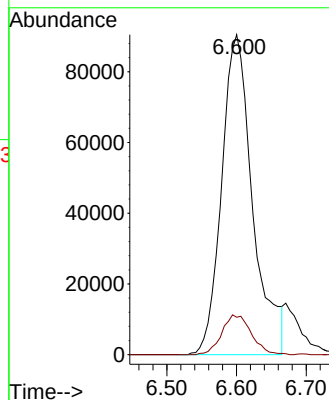
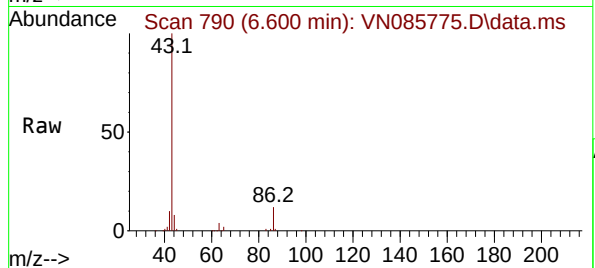
14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#24

1,1-Dichloroethane

Concen: 10.999 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion: 63 Resp: 57247

Ion Ratio Lower Upper

63

100

98

8.3

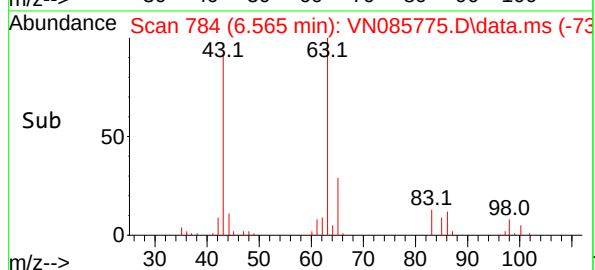
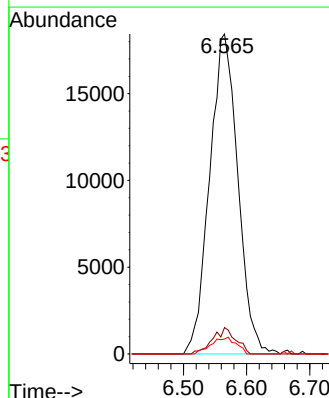
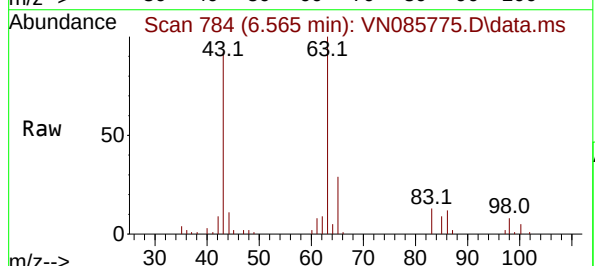
100

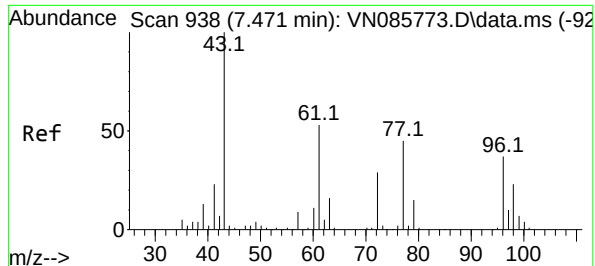
4.6

3.5

10.4

7.2





#25

2-Butanone

Concen: 54.772 ug/l

RT: 7.477 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 7779

Ion Ratio Lower Upper

43 100

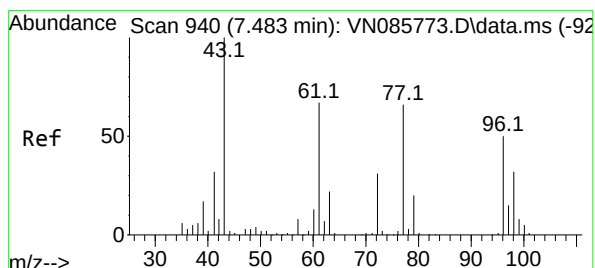
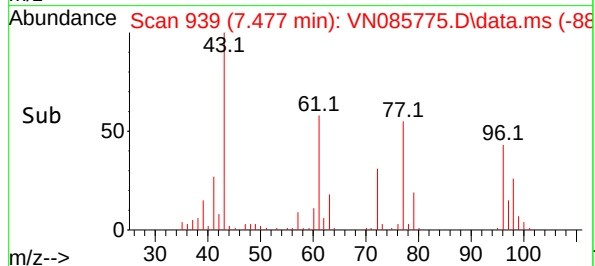
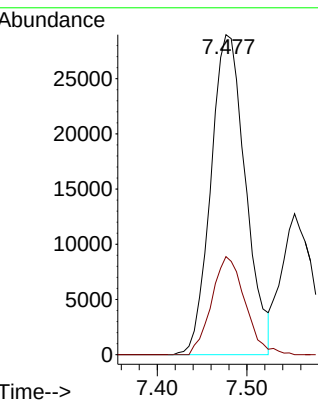
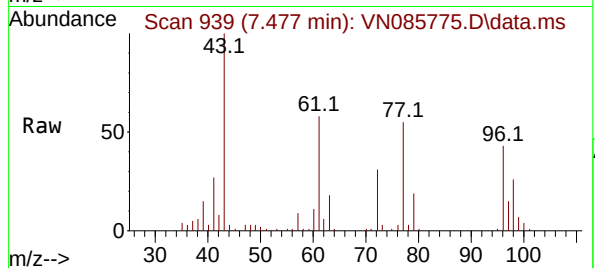
72 30.6 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#26

2,2-Dichloropropane

Concen: 10.876 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085775.D

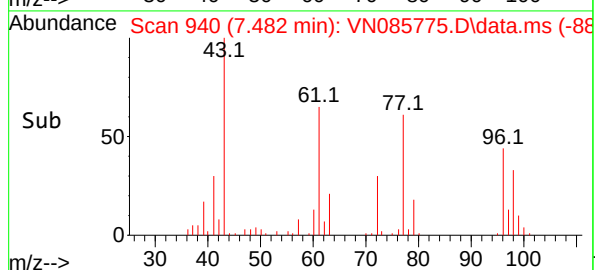
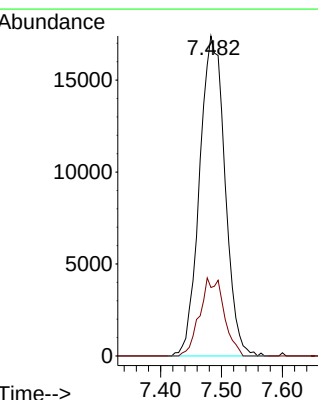
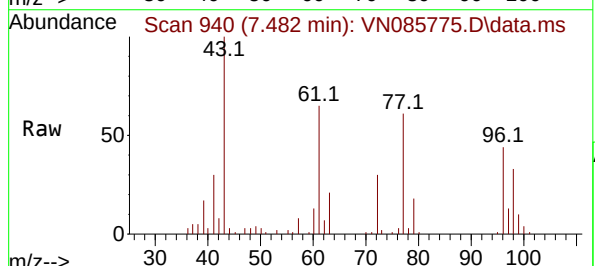
Acq: 18 Feb 2025 12:20

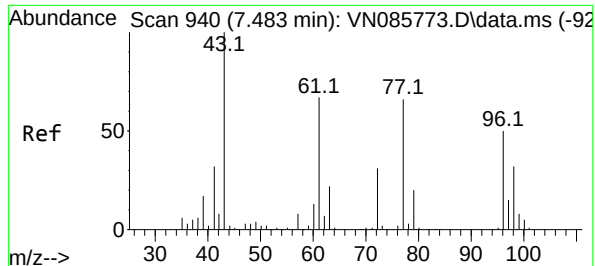
Tgt Ion: 77 Resp: 50333

Ion Ratio Lower Upper

77 100

97 23.3 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 10.802 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

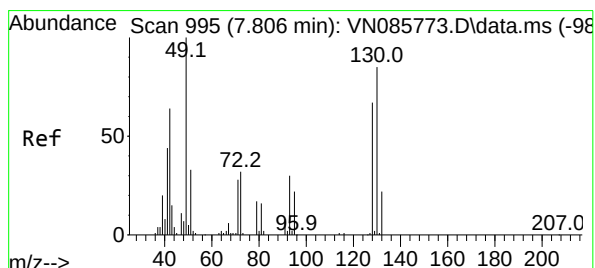
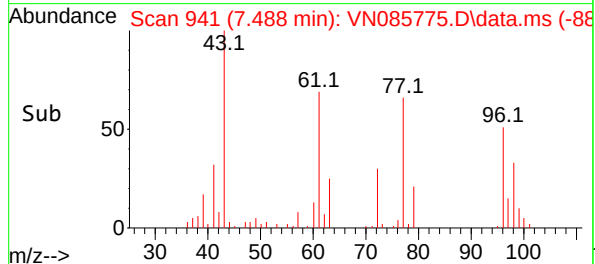
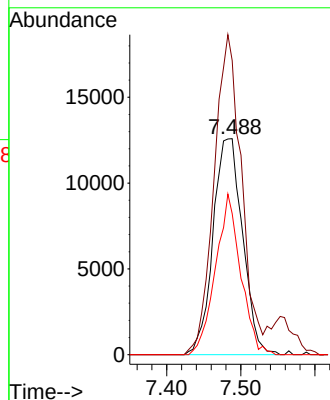
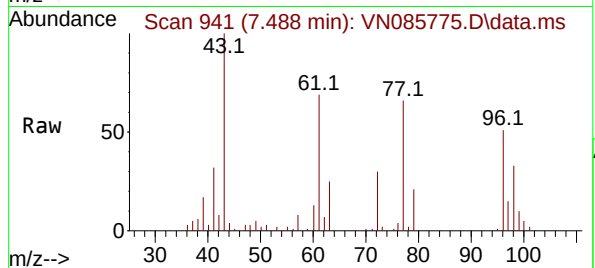
VSTDIC010

Tgt Ion:	96	Resp:	3480
Ion	Ratio	Lower	Upper
96	100		
61	137.4	0.0	280.6
98	63.6	0.0	128.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 7.609 ug/l

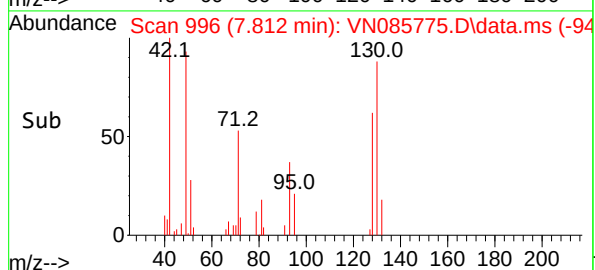
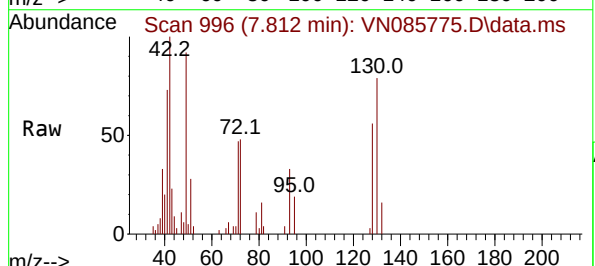
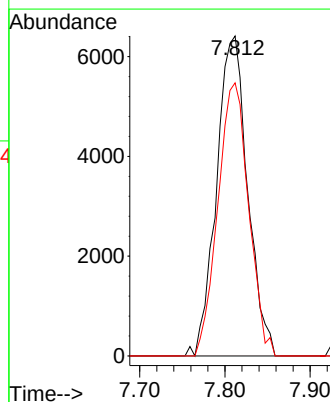
RT: 7.812 min Scan# 996

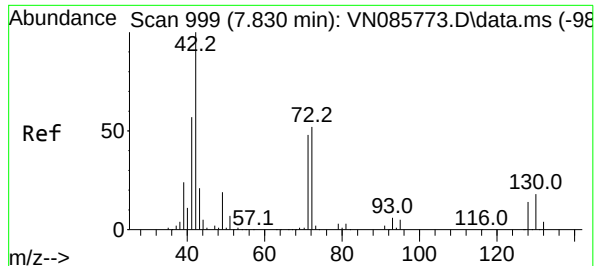
Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	49	Resp:	16276
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	84.4	68.0	102.0





#29

Tetrahydrofuran

Concen: 55.039 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

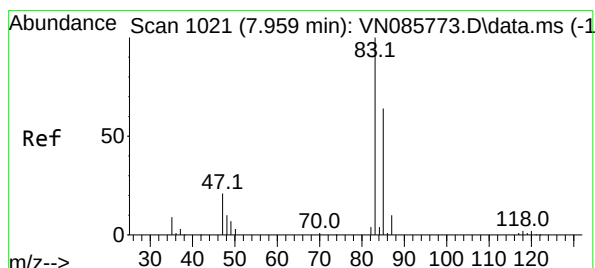
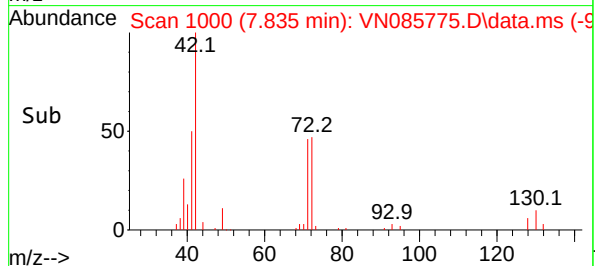
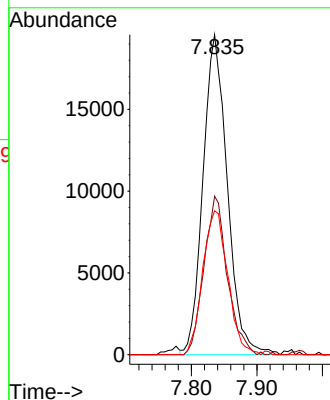
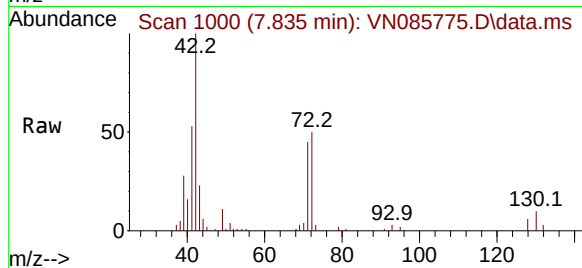
VSTDIC010

Tgt Ion:	42	Resp:	50478
Ion Ratio	Lower	Upper	
42	100		
72	47.8	40.0	60.0
71	46.2	37.0	55.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 10.980 ug/l

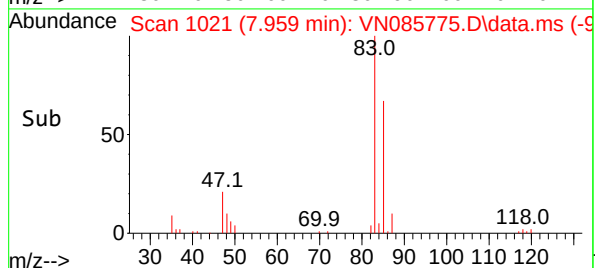
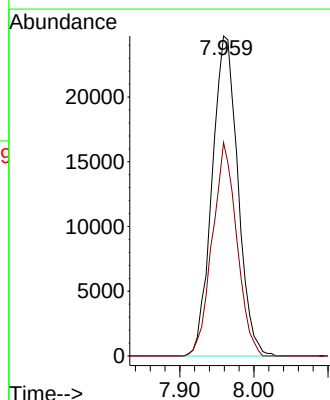
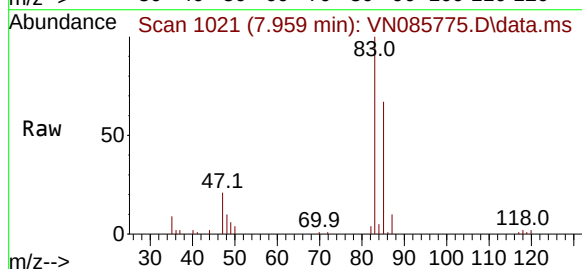
RT: 7.959 min Scan# 1021

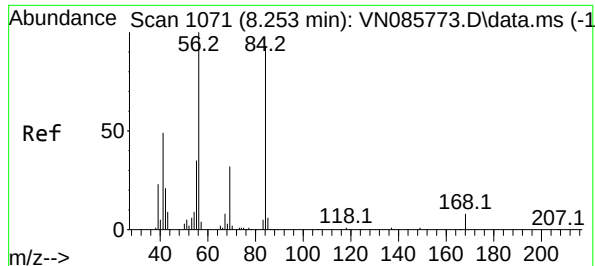
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	83	Resp:	59719
Ion Ratio	Lower	Upper	
83	100		
85	66.7	50.9	76.3





#31

Cyclohexane

Concen: 10.555 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 4599

Ion Ratio Lower Upper

56 100

69 34.5 25.8 38.6

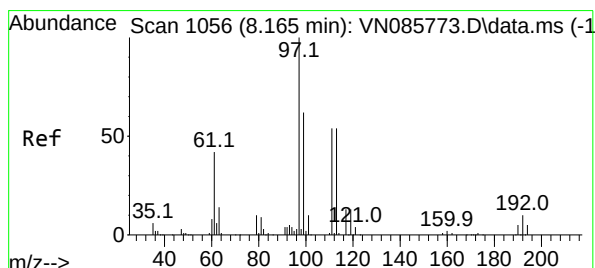
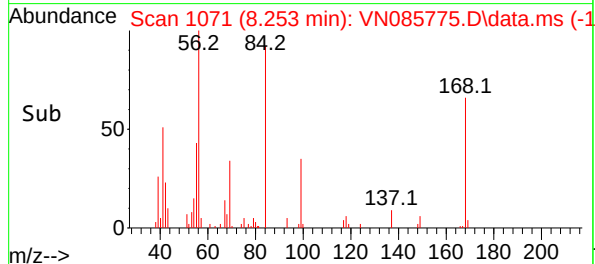
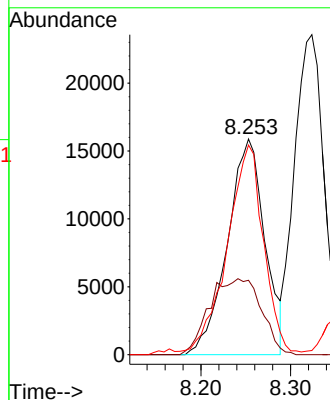
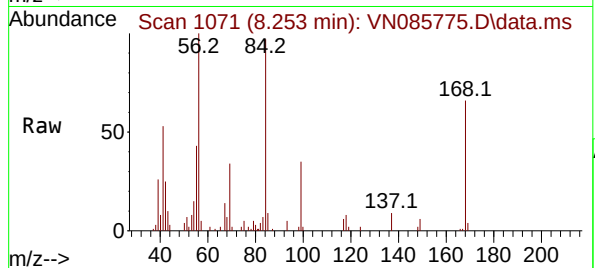
84 95.6 74.5 111.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#32

1,1,1-Trichloroethane

Concen: 10.595 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

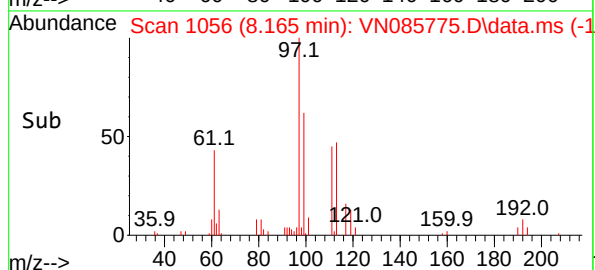
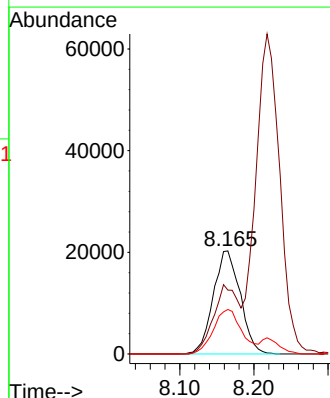
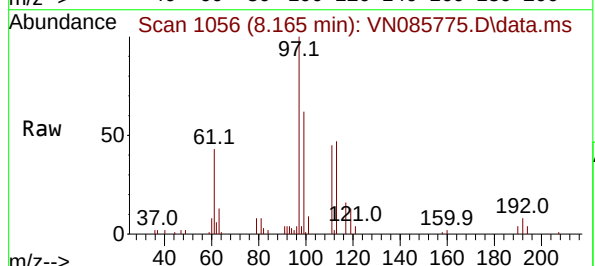
Tgt Ion: 97 Resp: 51254

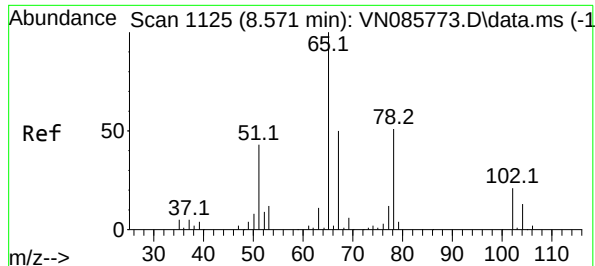
Ion Ratio Lower Upper

97 100

99 61.3 50.4 75.6

61 45.8 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 9.064 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 27654

Ion Ratio Lower Upper

65 100

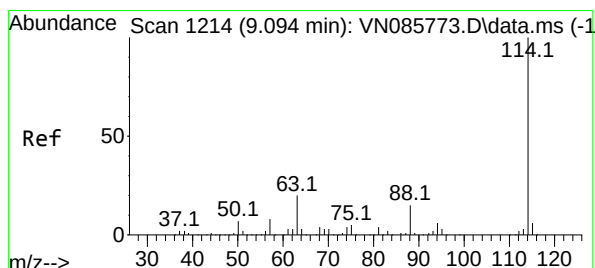
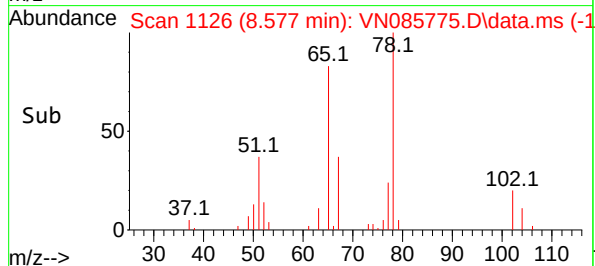
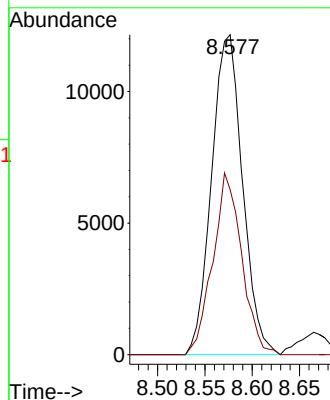
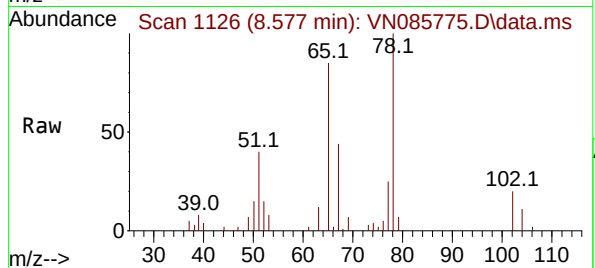
67 53.0 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

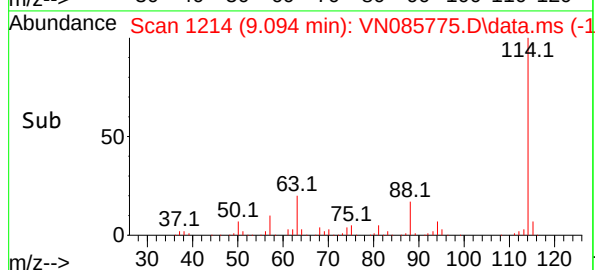
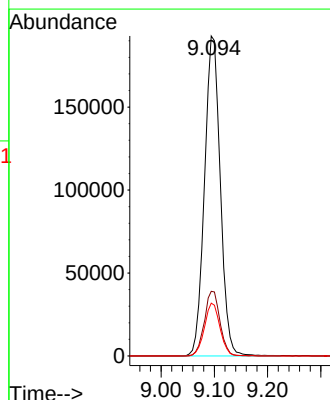
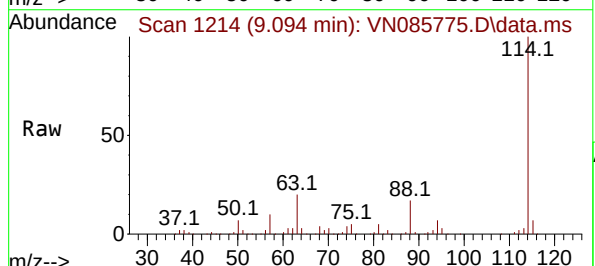
Tgt Ion:114 Resp: 397776

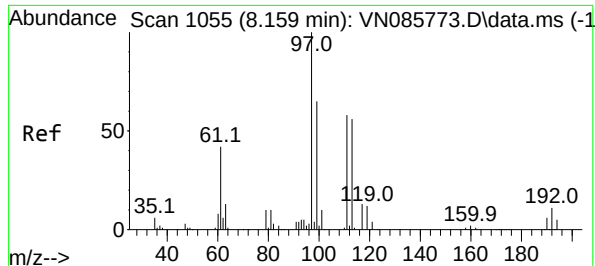
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.2

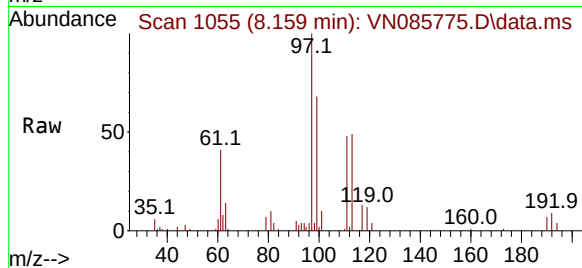
88 16.5 0.0 30.0





#35
Dibromofluoromethane
Concen: 8.972 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

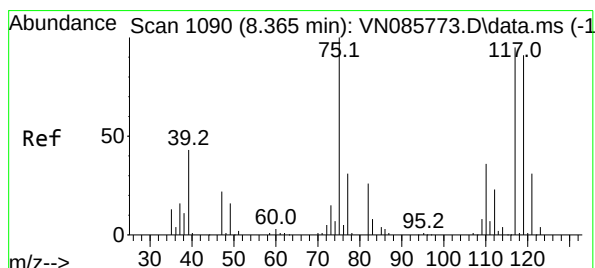
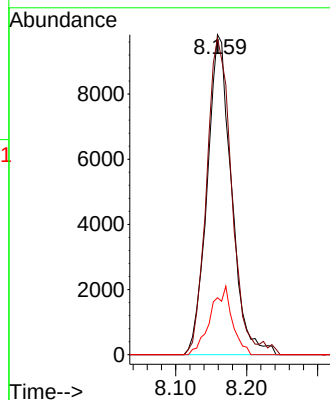
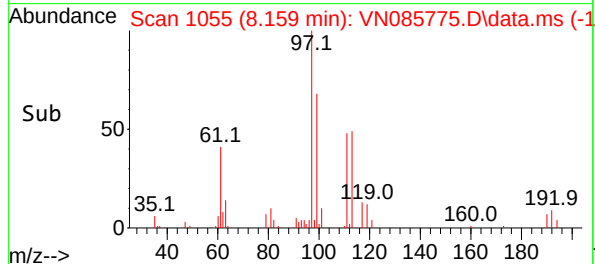
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 113 Resp: 2335
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 19.2 14.7 22.1

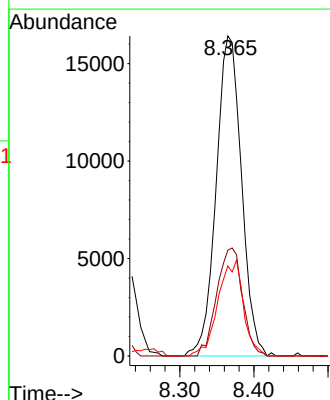
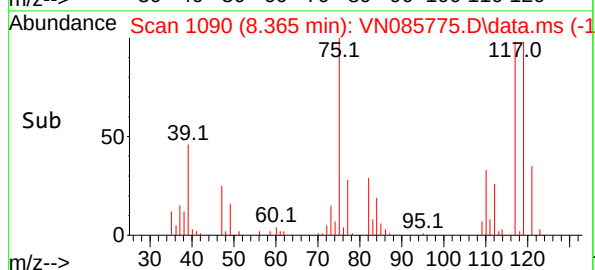
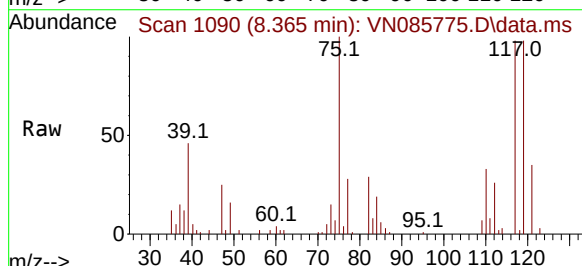
Manual Integrations
APPROVED

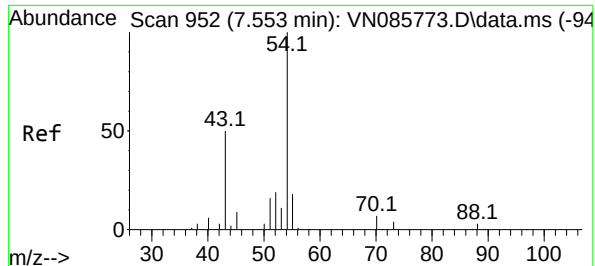
Reviewed By : John Carlone 02/19/2025
Supervised By : Mahesh Dadoda 02/19/2025



#36
1,1-Dichloropropene
Concen: 10.582 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 75 Resp: 38983
Ion Ratio Lower Upper
75 100
110 34.2 17.3 52.0
77 29.9 24.6 37.0





#37

Ethyl Acetate

Concen: 10.115 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

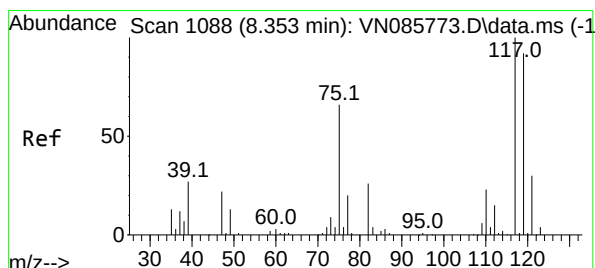
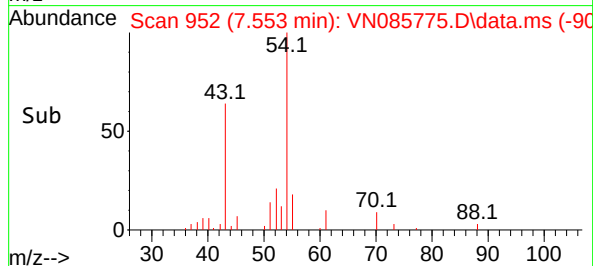
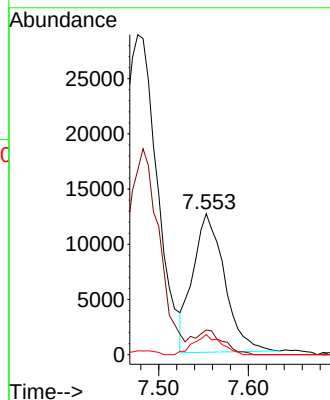
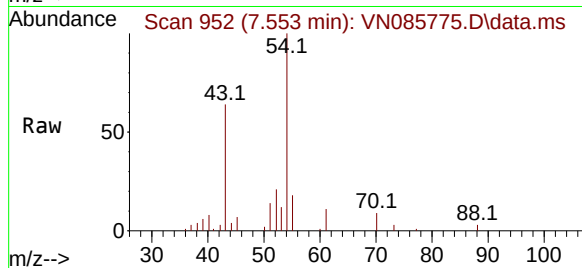
VSTDIC010

Tgt Ion:	43	Resp:	3066
Ion	Ratio	Lower	Upper
43	100		
61	13.0	12.2	18.2
70	12.6	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#38

Carbon Tetrachloride

Concen: 10.605 ug/l

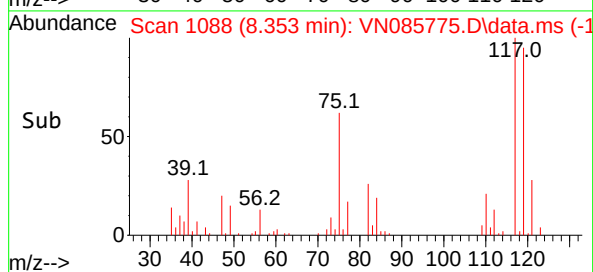
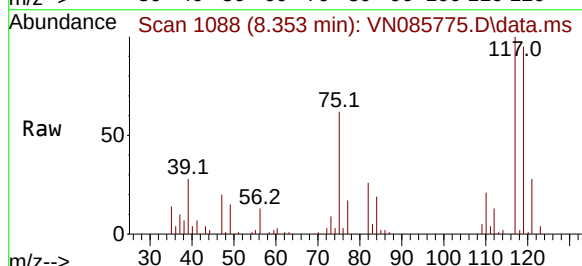
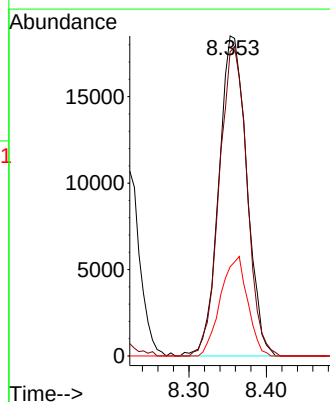
RT: 8.353 min Scan# 1088

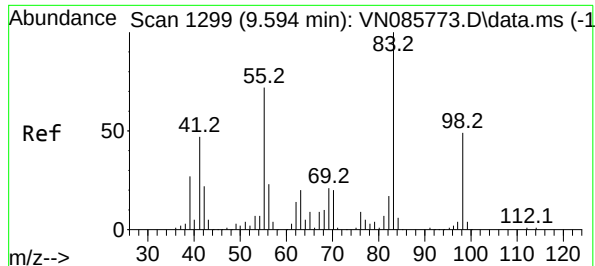
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	117	Resp:	46420
Ion	Ratio	Lower	Upper
117	100		
119	95.1	73.8	110.6
121	27.8	24.3	36.5





#39

Methylcyclohexane

Concen: 9.803 ug/l

RT: 9.594 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

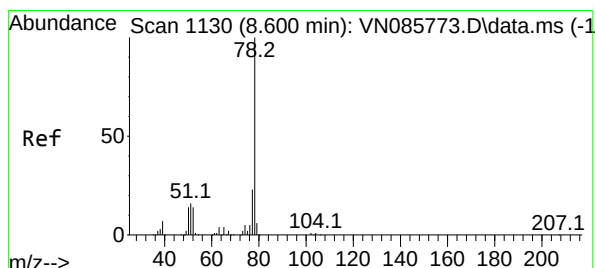
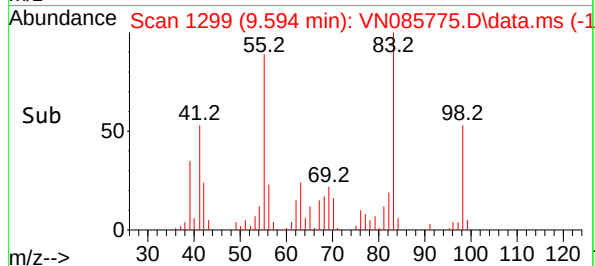
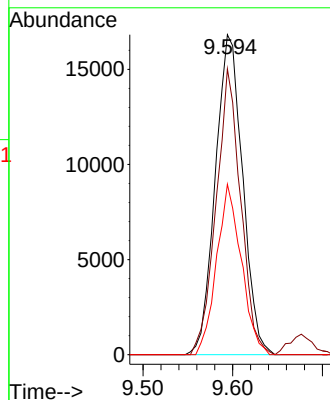
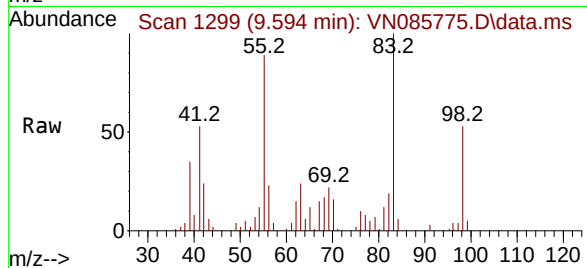
Tgt Ion	Ratio	Lower	Upper
83	100		
55	89.3	57.5	86.3
98	53.2	39.2	58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#40

Benzene

Concen: 10.562 ug/l

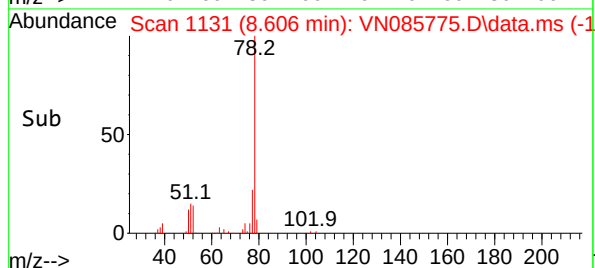
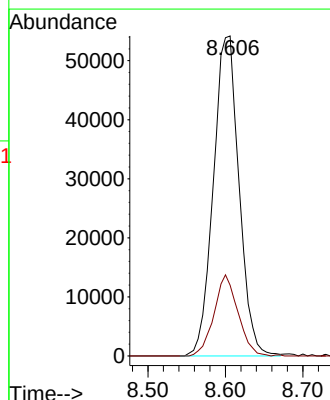
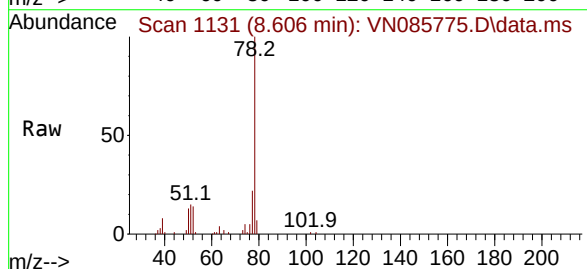
RT: 8.606 min Scan# 1131

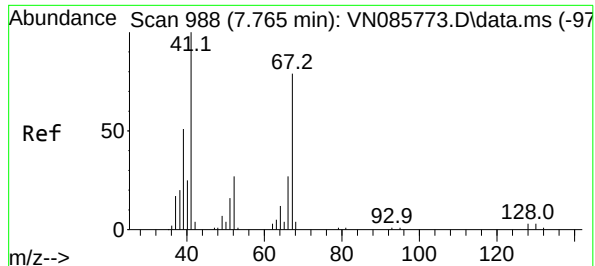
Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.3	27.5





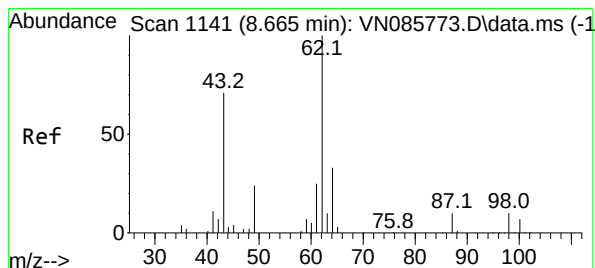
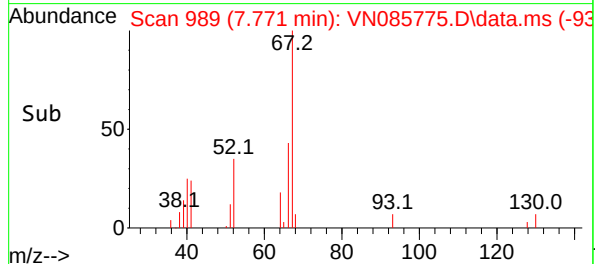
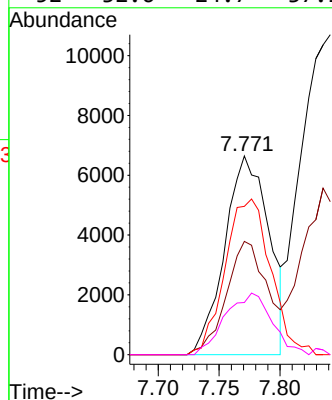
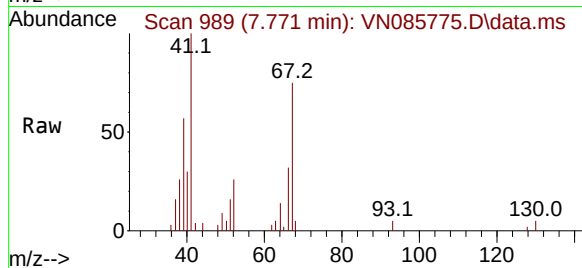
#41
Methacrylonitrile
Concen: 10.373 ug/l
RT: 7.771 min Scan# 911
Delta R.T. 0.006 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 1681
Ion Ratio Lower Upper
41 100
39 52.8 42.0 63.0
67 80.7 64.2 96.4
52 32.6 24.7 37.1

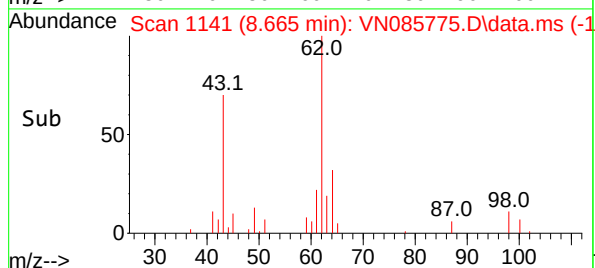
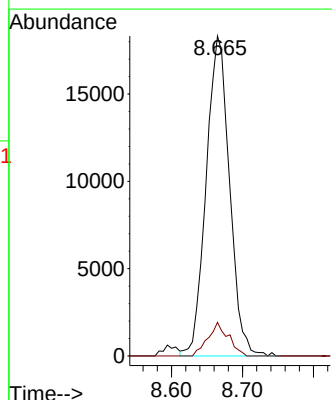
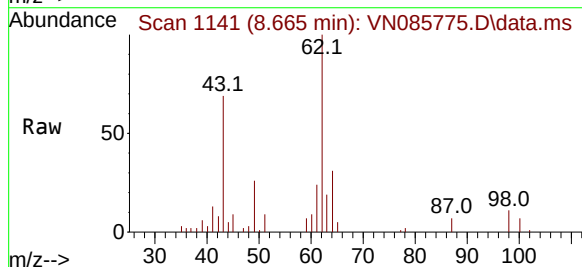
Manual Integrations
APPROVED

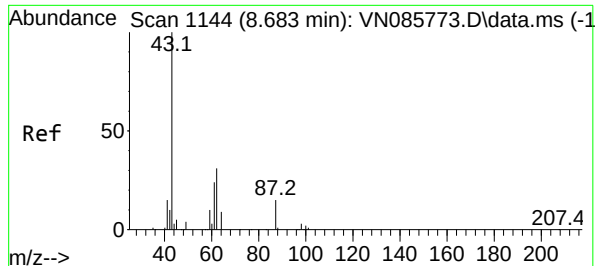
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#42
1,2-Dichloroethane
Concen: 10.898 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 62 Resp: 41912
Ion Ratio Lower Upper
62 100
98 9.2 0.0 19.6





#43

Isopropyl Acetate

Concen: 11.001 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN085775.D

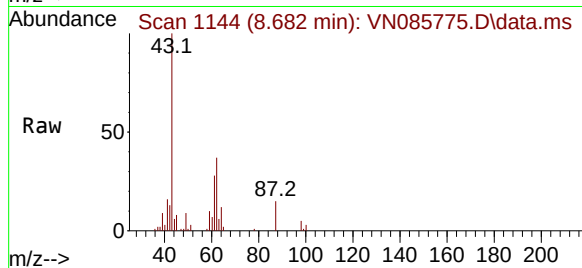
Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

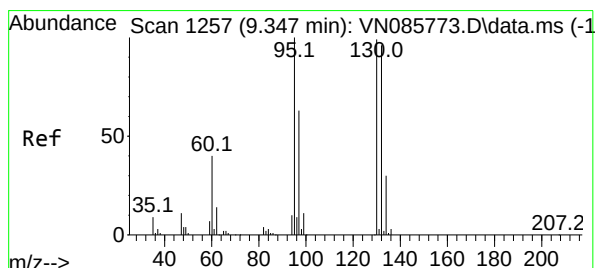
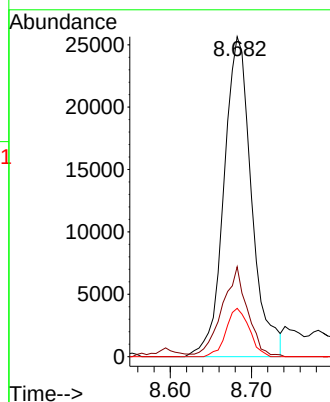
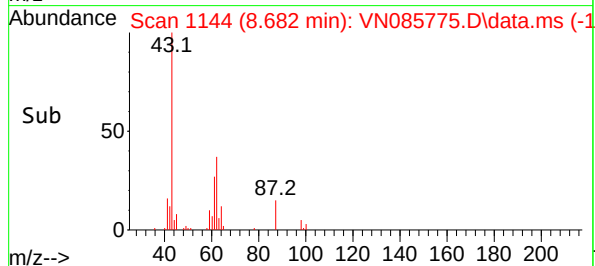


Tgt Ion:	43	Resp:	60794
Ion	Ratio	Lower	Upper
43	100		
61	25.9	22.6	34.0
87	12.7	11.8	17.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#44

Trichloroethene

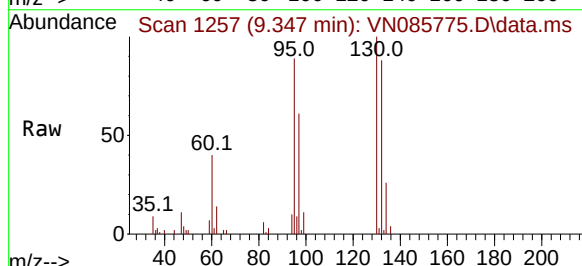
Concen: 10.542 ug/l

RT: 9.347 min Scan# 1257

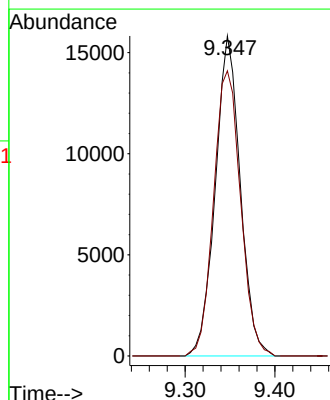
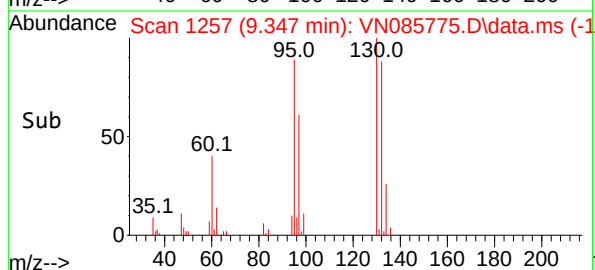
Delta R.T. -0.000 min

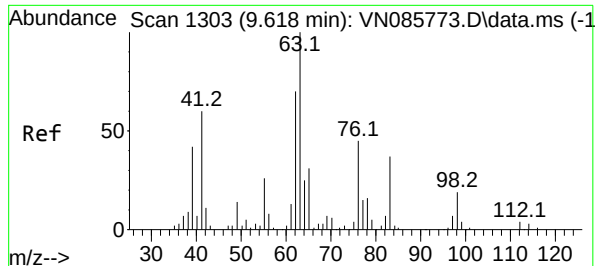
Lab File: VN085775.D

Acq: 18 Feb 2025 12:20



Tgt Ion:	130	Resp:	30561
Ion	Ratio	Lower	Upper
130	100		
95	89.1	0.0	202.6





#45

1,2-Dichloropropane

Concen: 10.744 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 30619

Ion Ratio Lower Upper

63 100

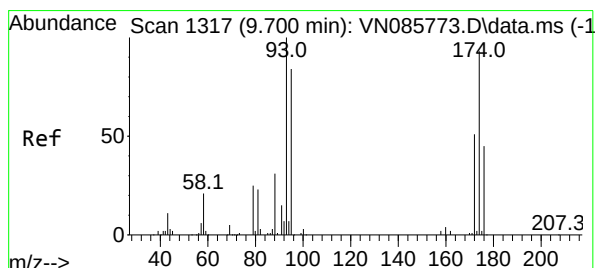
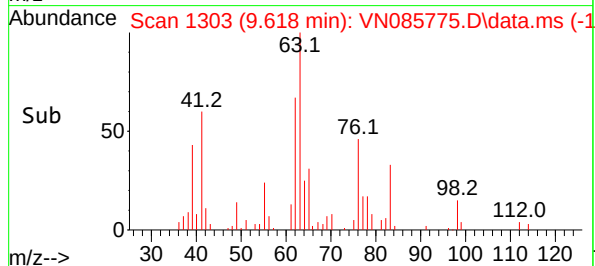
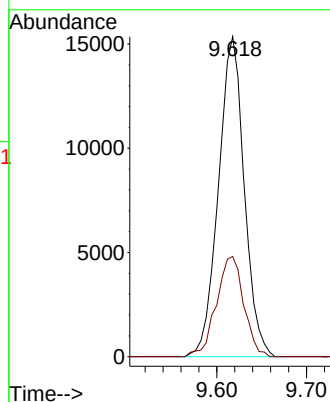
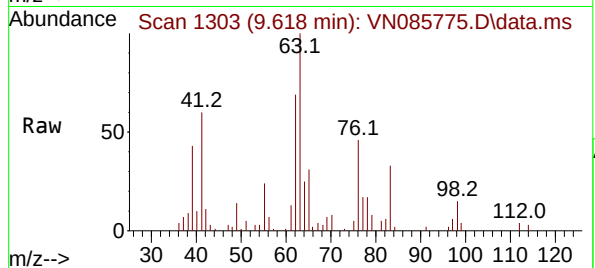
65 31.3 25.1 37.7

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#46

Dibromomethane

Concen: 10.489 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

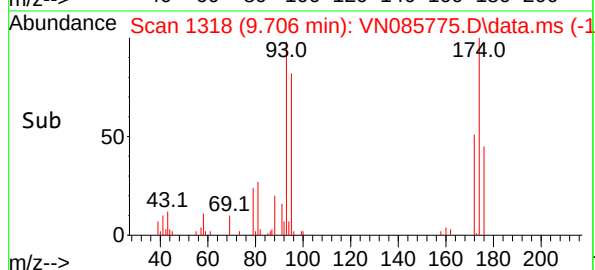
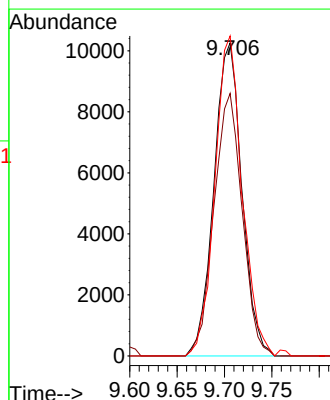
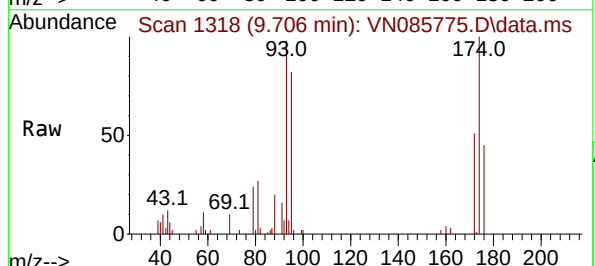
Tgt Ion: 93 Resp: 21085

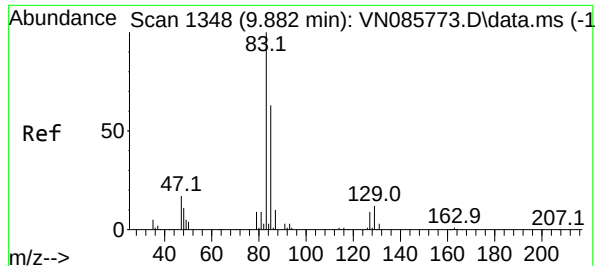
Ion Ratio Lower Upper

93 100

95 84.8 66.7 100.1

174 99.7 77.2 115.8





#47

Bromodichloromethane

Concen: 10.559 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

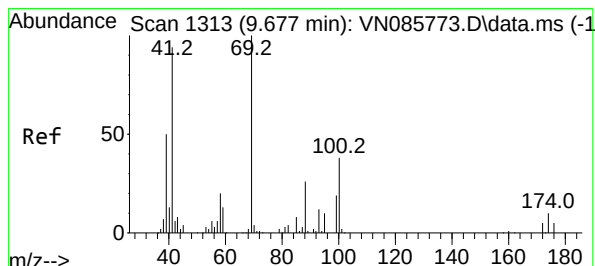
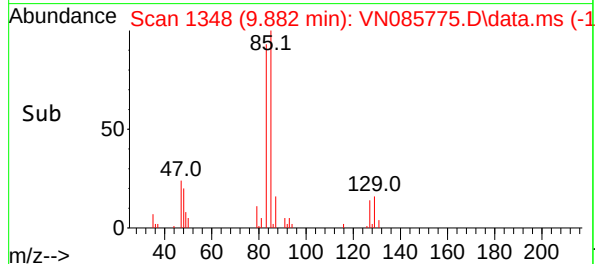
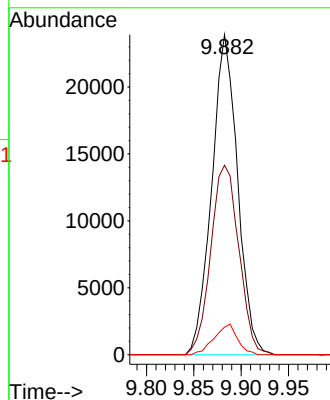
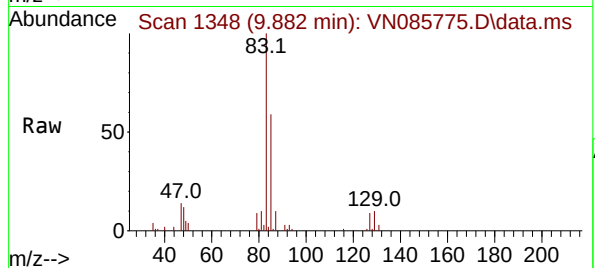
VSTDIC010

Tgt Ion:	83	Resp:	4541
Ion	Ratio	Lower	Upper
83	100		
85	59.2	50.5	75.7
127	8.6	7.2	10.8

Manual Integrations
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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#48

Methyl methacrylate

Concen: 9.798 ug/l

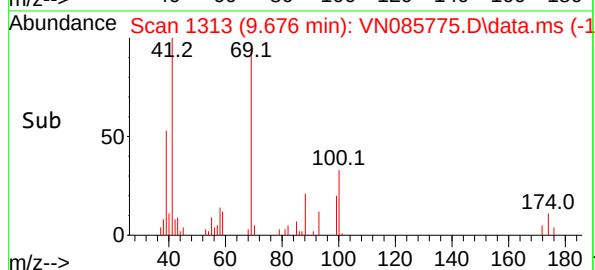
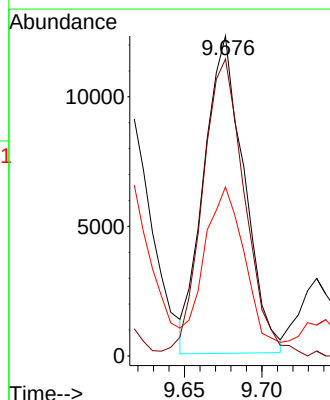
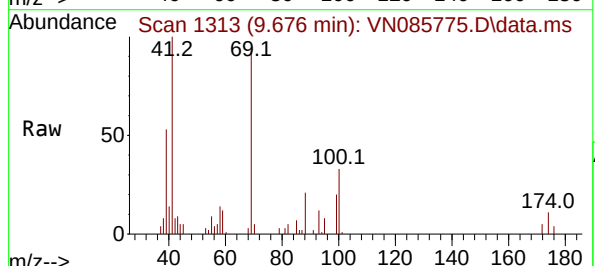
RT: 9.676 min Scan# 1313

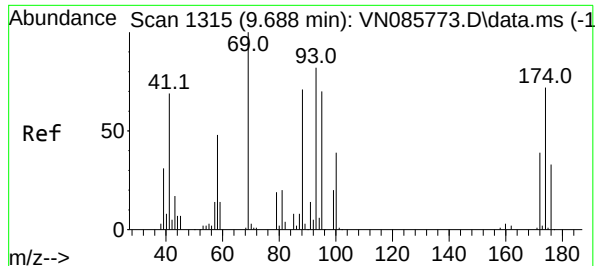
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	41	Resp:	22058
Ion	Ratio	Lower	Upper
41	100		
69	99.3	76.0	114.0
39	55.9	42.3	63.5





#49

1,4-Dioxane

Concen: 208.723 ug/l

RT: 9.688 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 88 Resp: 8930

Ion Ratio Lower Upper

88 100

43 28.6 18.6 27.8

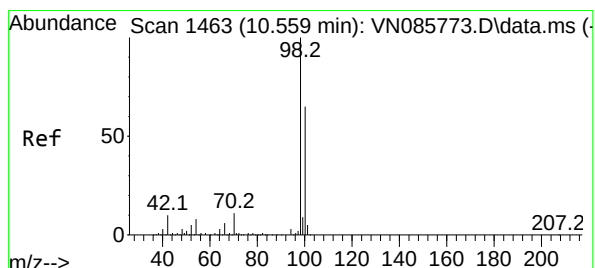
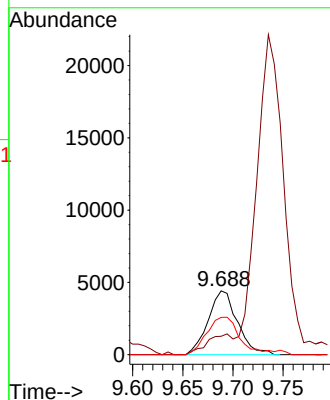
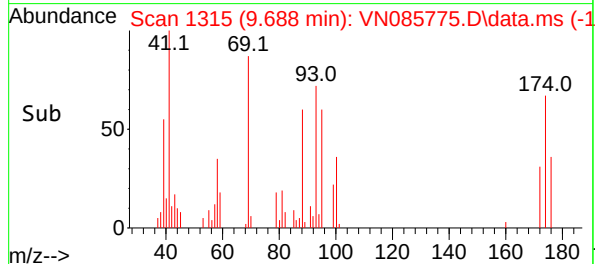
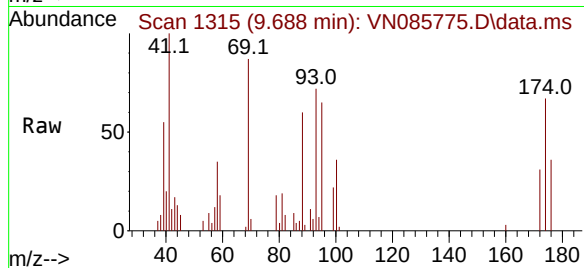
58 68.4 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#50

Toluene-d8

Concen: 8.542 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085775.D

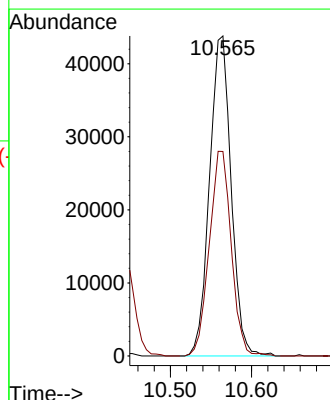
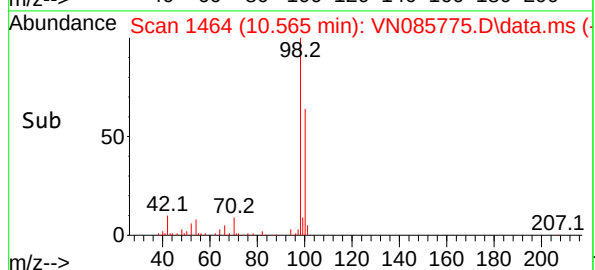
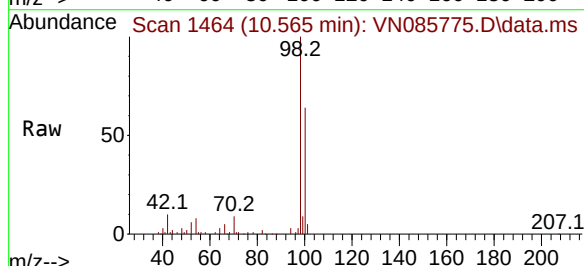
Acq: 18 Feb 2025 12:20

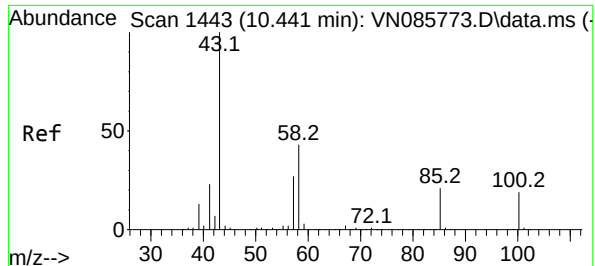
Tgt Ion: 98 Resp: 80889

Ion Ratio Lower Upper

98 100

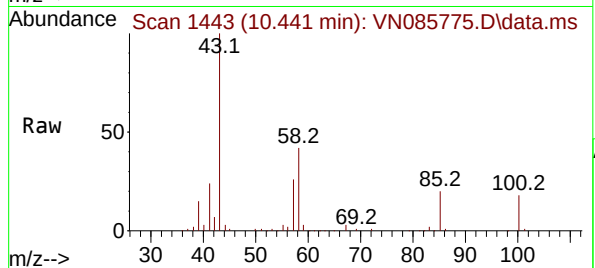
100 65.0 52.1 78.1





#51
4-Methyl-2-Pentanone
Concen: 53.302 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

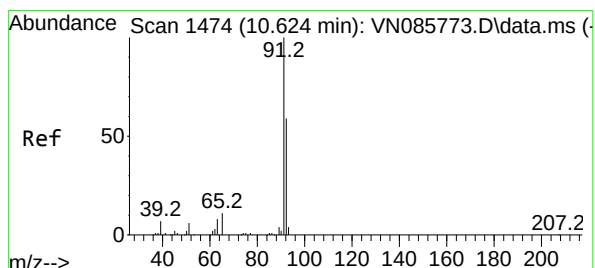
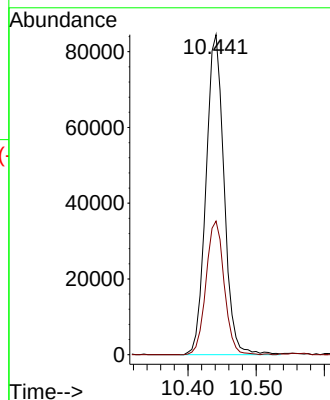
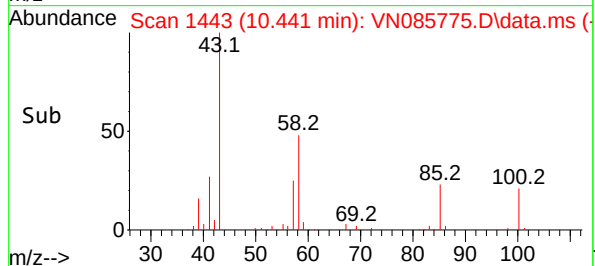
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 43 Resp: 155789
Ion Ratio Lower Upper
43 100
58 41.8 34.6 52.0

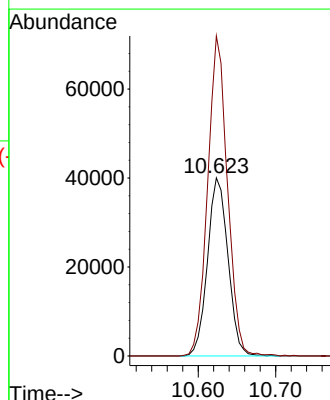
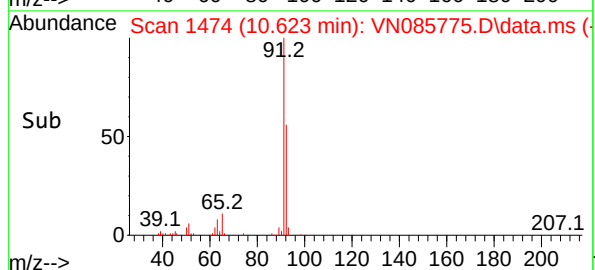
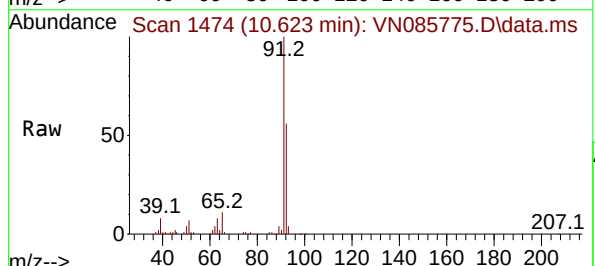
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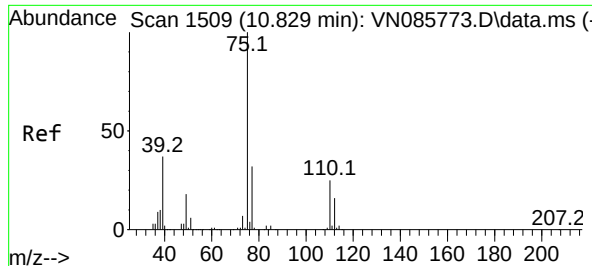
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#52
Toluene
Concen: 10.622 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 92 Resp: 73516
Ion Ratio Lower Upper
92 100
91 173.5 136.9 205.3





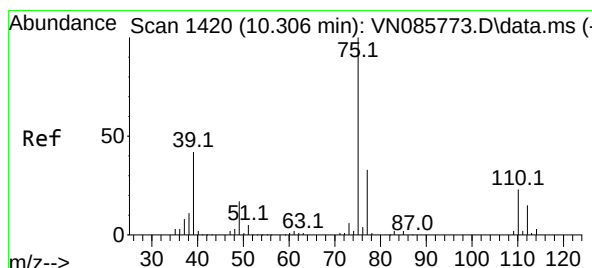
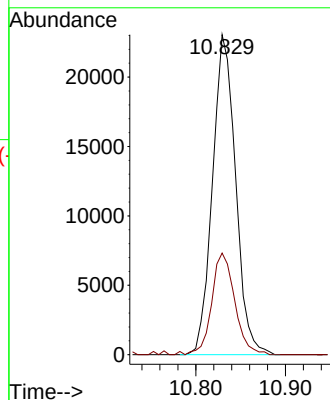
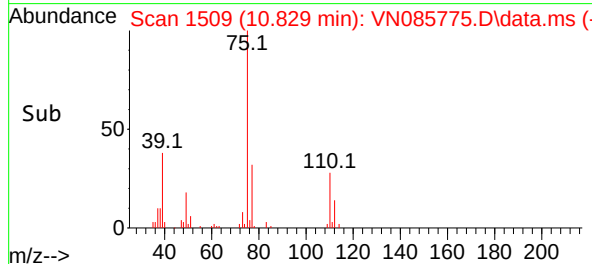
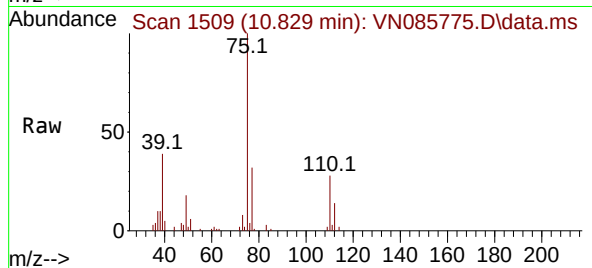
#53
t-1,3-Dichloropropene
Concen: 10.367 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 41230
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.0

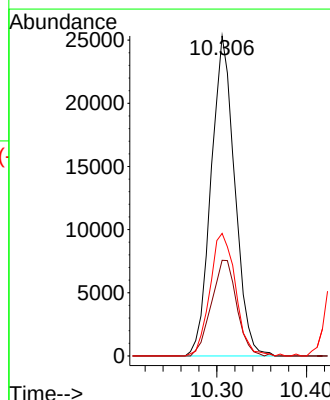
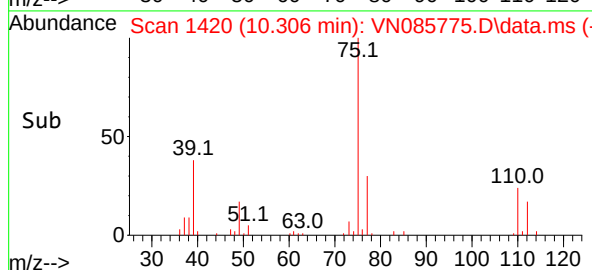
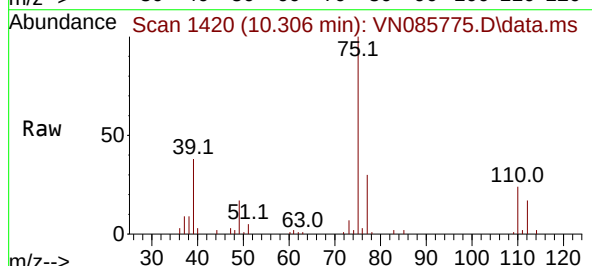
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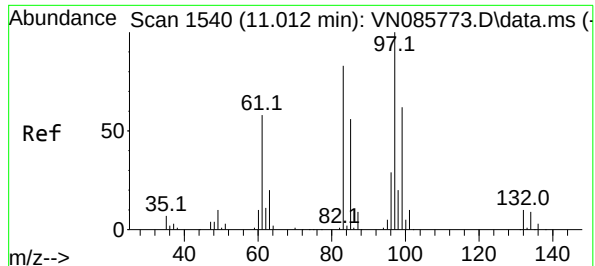
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#54
cis-1,3-Dichloropropene
Concen: 10.617 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 75 Resp: 46300
Ion Ratio Lower Upper
75 100
77 29.9 26.1 39.1
39 38.3 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 10.687 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 29408

Ion Ratio Lower Upper

97 100

83 83.0 66.1 99.1

85 58.2 44.7 67.1

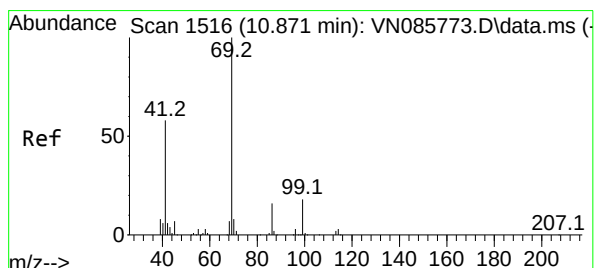
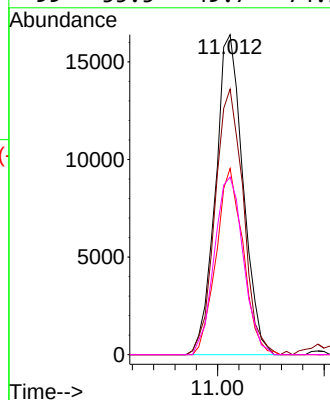
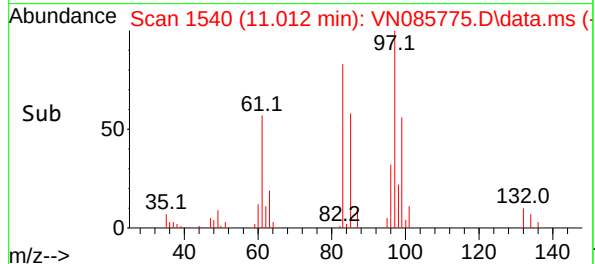
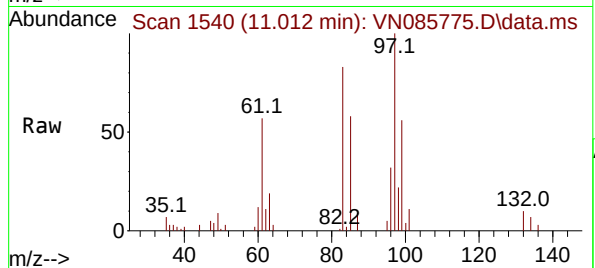
99 55.5 49.7 74.5

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#56

Ethyl methacrylate

Concen: 10.274 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.001 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

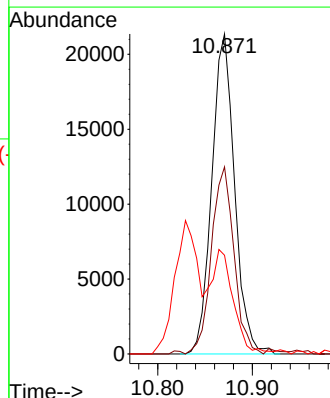
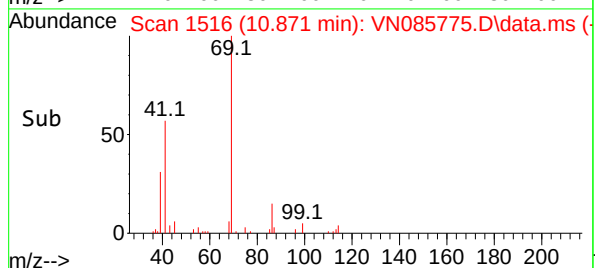
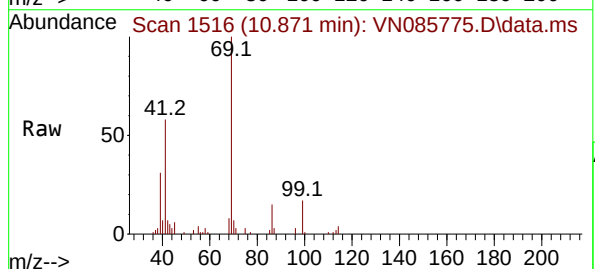
Tgt Ion: 69 Resp: 35641

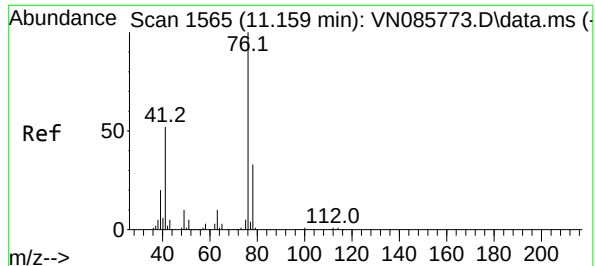
Ion Ratio Lower Upper

69 100

41 58.2 46.0 69.0

39 27.6 22.0 33.0





#57

1,3-Dichloropropane

Concen: 10.647 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 4890

Ion Ratio Lower Upper

76 100

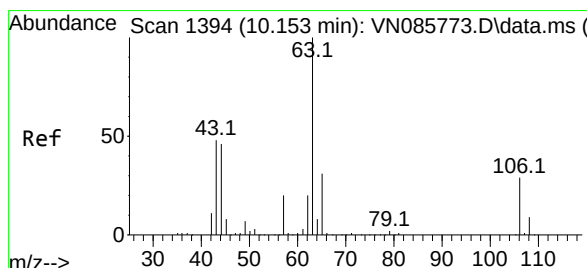
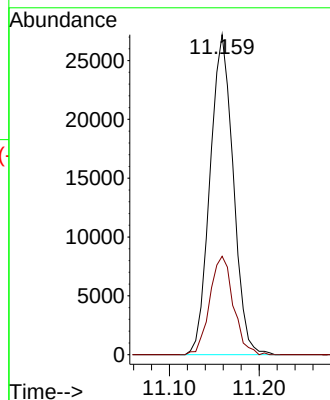
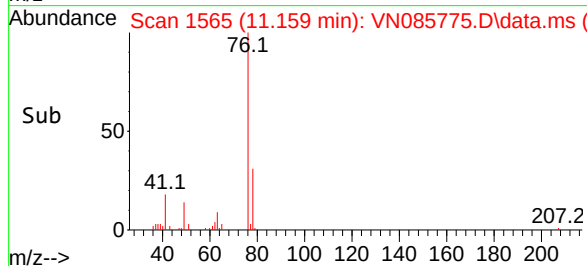
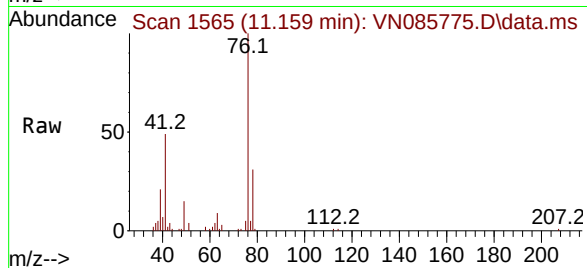
78 31.3 25.9 38.9

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 47.108 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085775.D

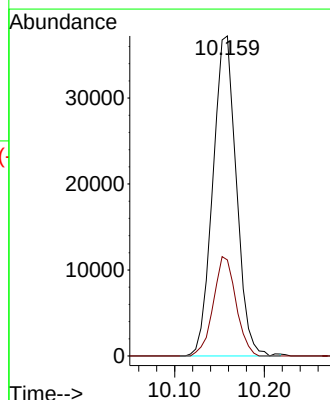
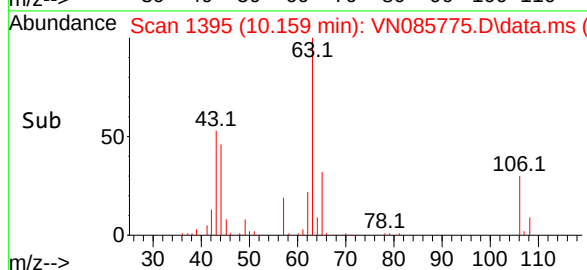
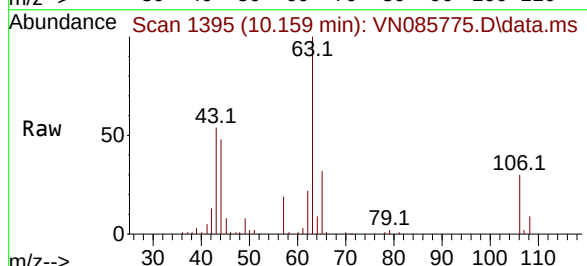
Acq: 18 Feb 2025 12:20

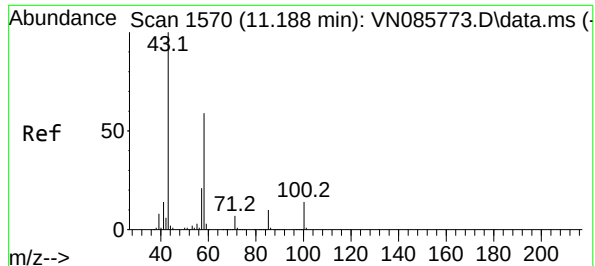
Tgt Ion: 63 Resp: 67791

Ion Ratio Lower Upper

63 100

106 29.9 22.7 34.1





#59

2-Hexanone

Concen: 52.609 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 10578

Ion Ratio Lower Upper

43 100

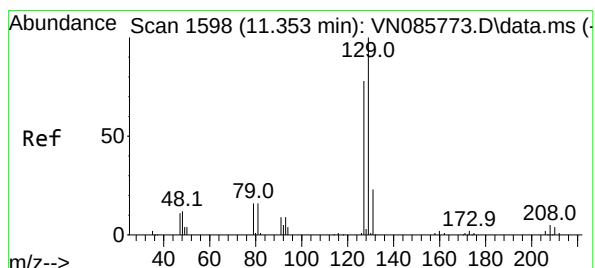
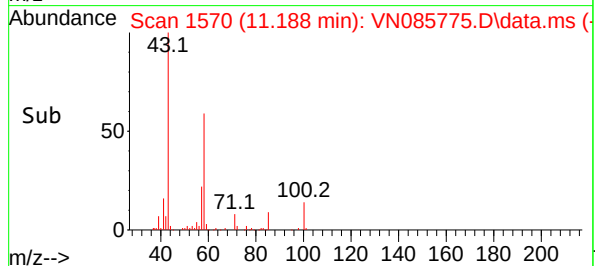
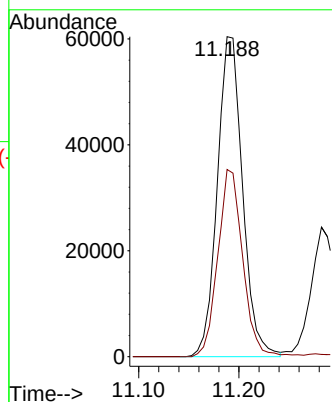
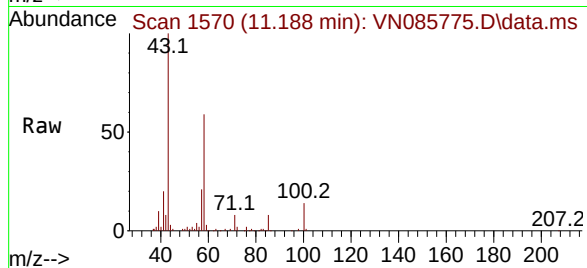
58 57.7 29.8 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#60

Dibromochloromethane

Concen: 10.694 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085775.D

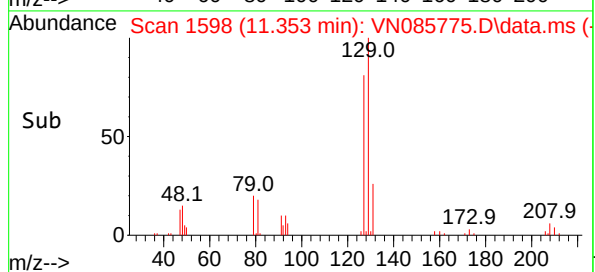
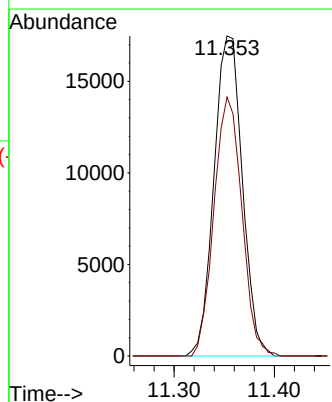
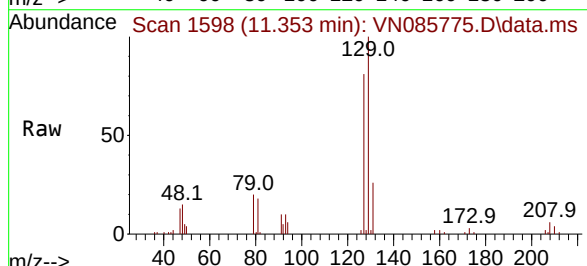
Acq: 18 Feb 2025 12:20

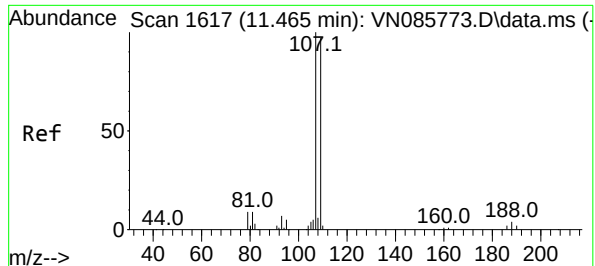
Tgt Ion:129 Resp: 34267

Ion Ratio Lower Upper

129 100

127 79.6 39.1 117.5





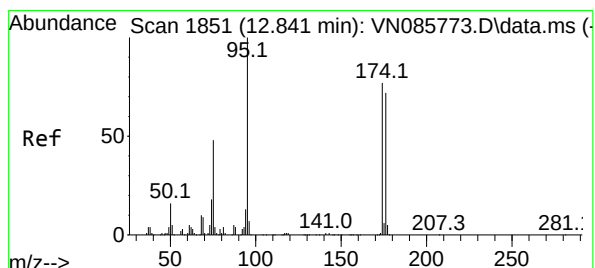
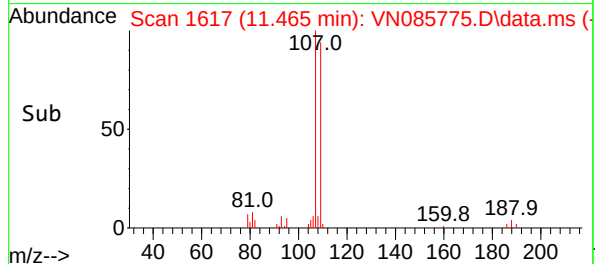
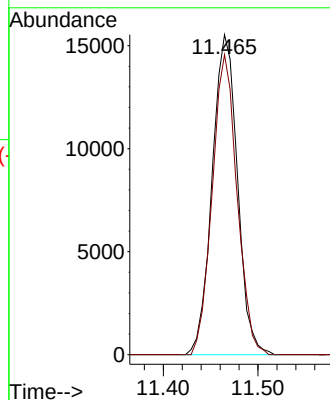
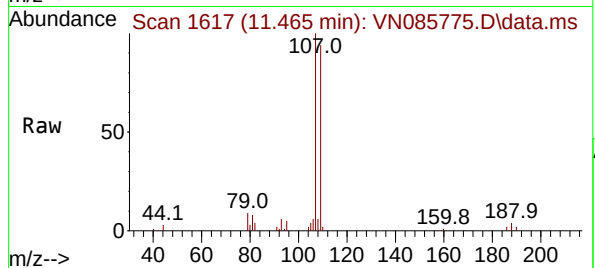
#61
1,2-Dibromoethane
Concen: 11.073 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion:107 Resp: 28789
Ion Ratio Lower Upper
107 100
109 92.1 76.0 114.0

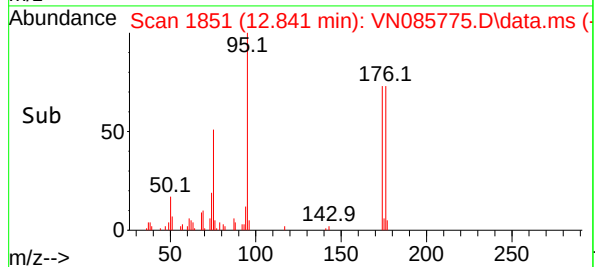
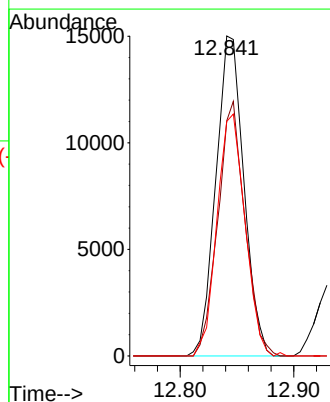
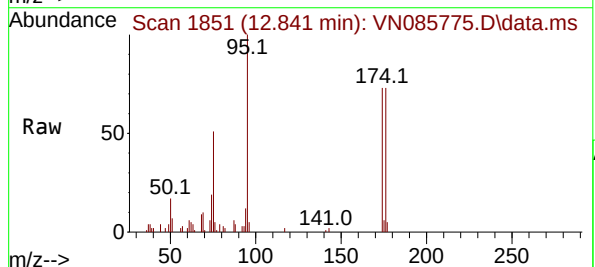
Manual Integrations
APPROVED

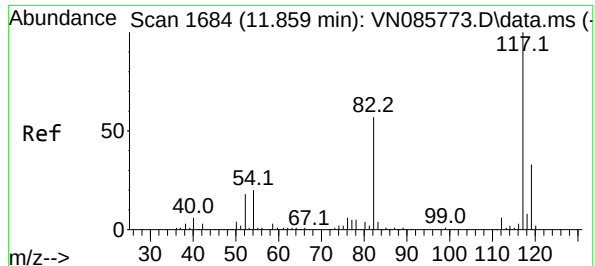
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#62
4-Bromofluorobenzene
Concen: 8.236 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 95 Resp: 25697
Ion Ratio Lower Upper
95 100
174 77.0 0.0 152.4
176 75.9 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 33968

Ion Ratio Lower Upper

117 100

82 57.7 45.7 68.5

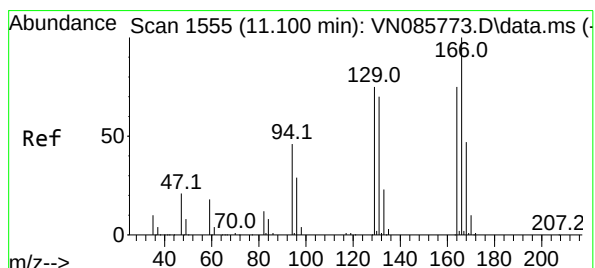
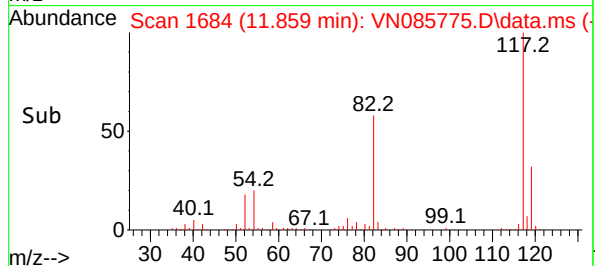
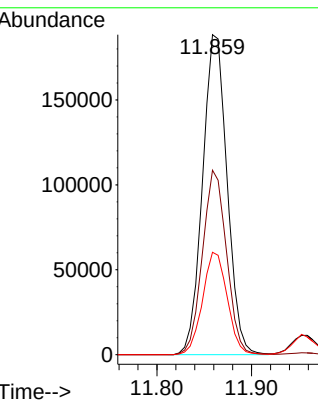
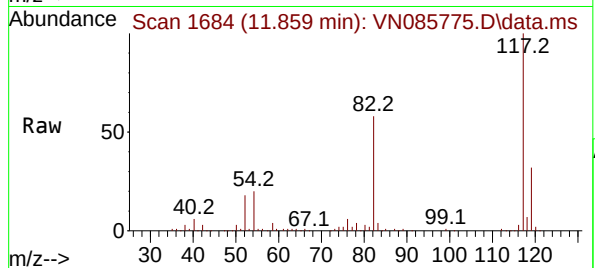
119 32.0 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#64

Tetrachloroethene

Concen: 10.855 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:164 Resp: 28564

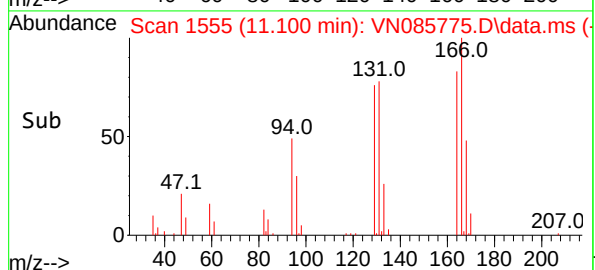
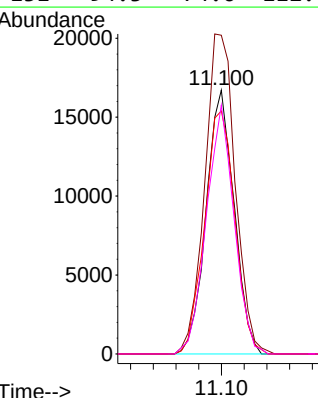
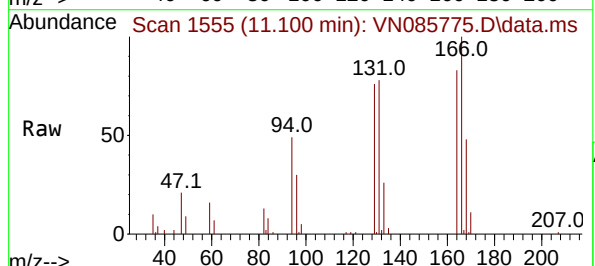
Ion Ratio Lower Upper

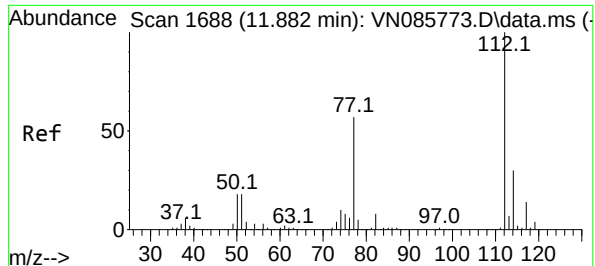
164 100

166 120.8 107.2 160.8

129 92.1 80.7 121.1

131 94.3 74.6 112.0





#65

Chlorobenzene

Concen: 10.585 ug/l

RT: 11.888 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:112 Resp: 8236

Ion Ratio Lower Upper

112 100

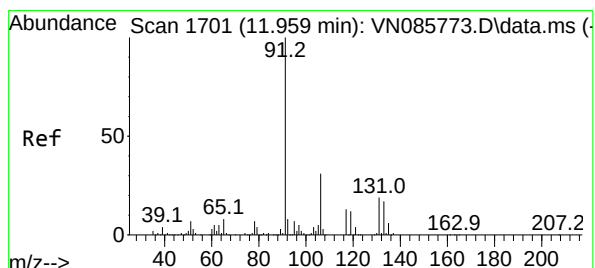
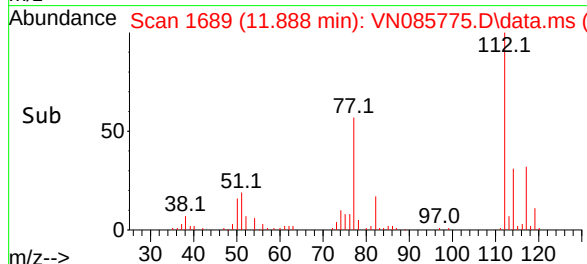
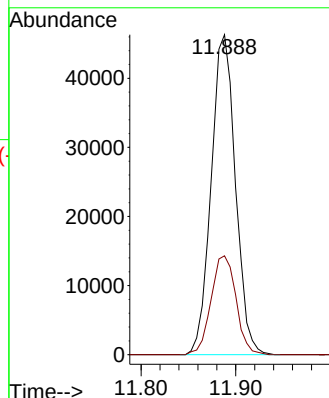
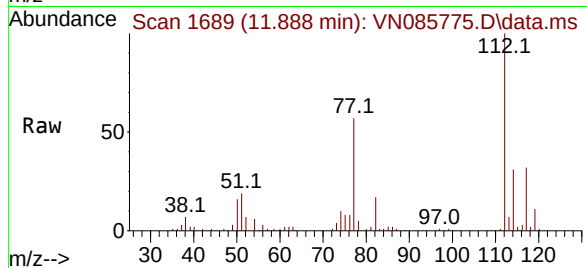
114 30.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 10.773 ug/l

RT: 11.953 min Scan# 1700

Delta R.T. -0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

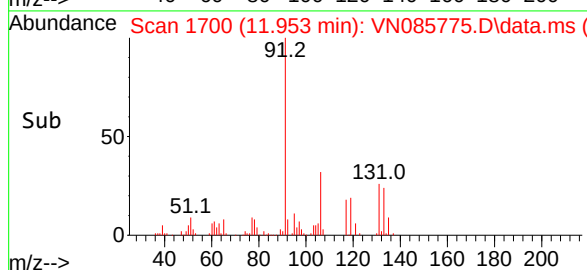
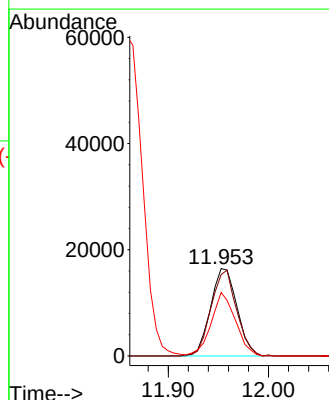
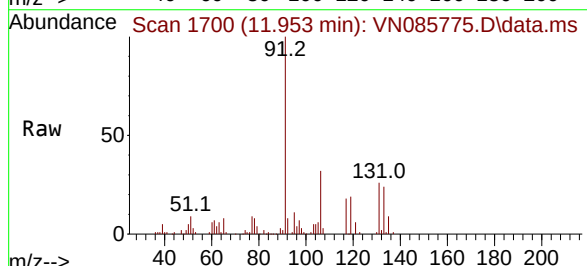
Tgt Ion:131 Resp: 30133

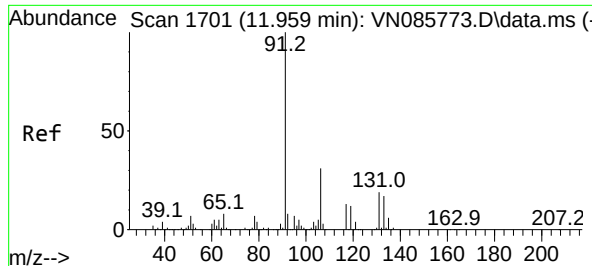
Ion Ratio Lower Upper

131 100

133 94.7 47.7 143.1

119 66.8 33.3 99.8





#67

Ethyl Benzene

Concen: 10.199 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 12432

Ion Ratio Lower Upper

91 100

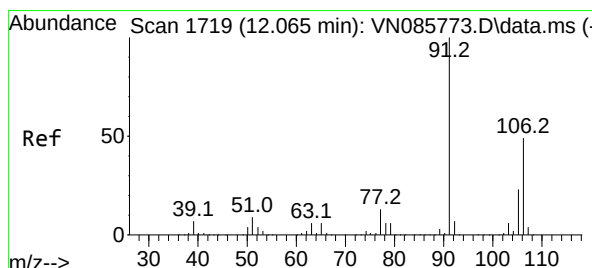
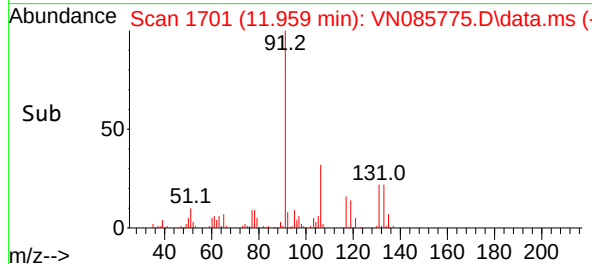
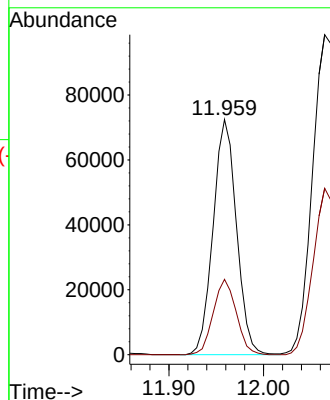
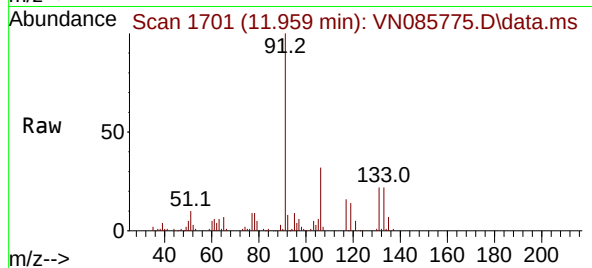
106 32.0 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#68

m/p-Xylenes

Concen: 21.290 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085775.D

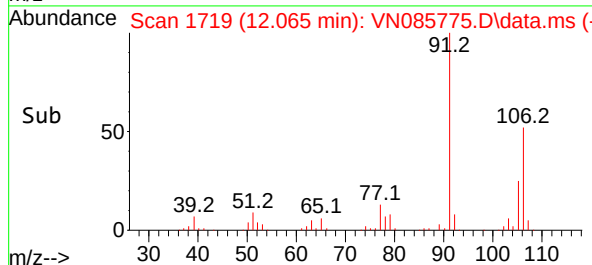
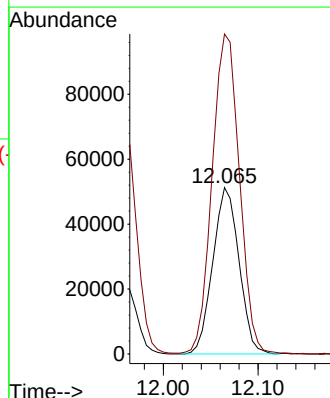
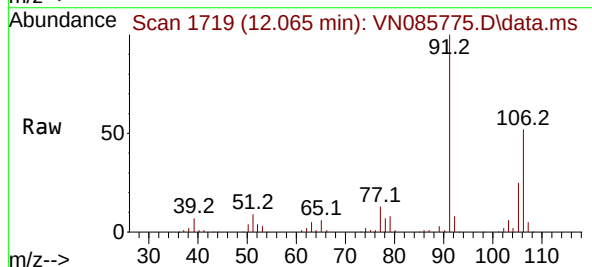
Acq: 18 Feb 2025 12:20

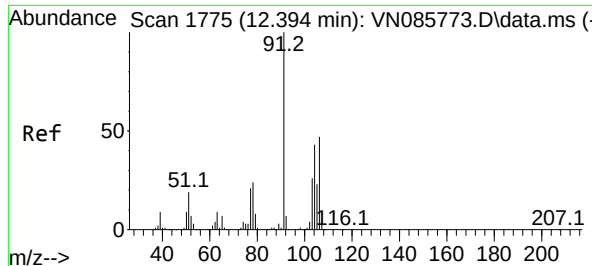
Tgt Ion:106 Resp: 98574

Ion Ratio Lower Upper

106 100

91 200.5 163.3 244.9





#69

o-Xylene

Concen: 10.287 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:106 Resp: 4526

Ion Ratio Lower Upper

106 100

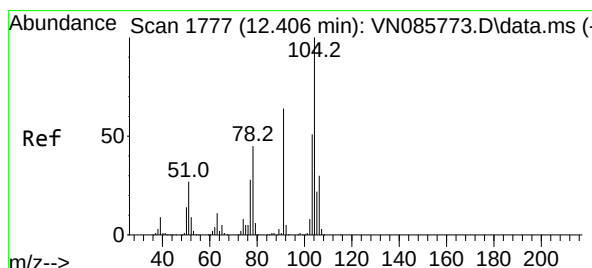
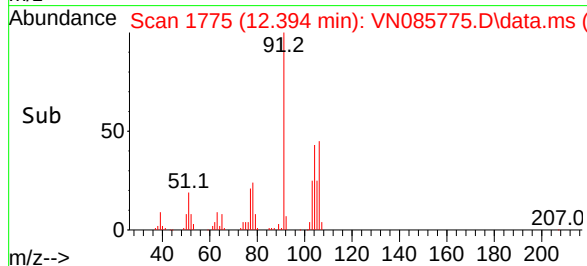
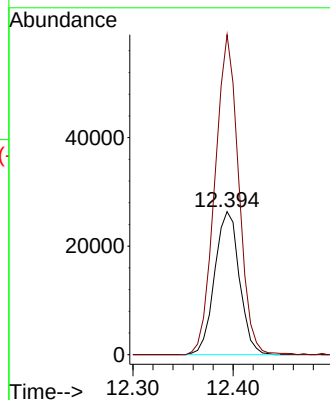
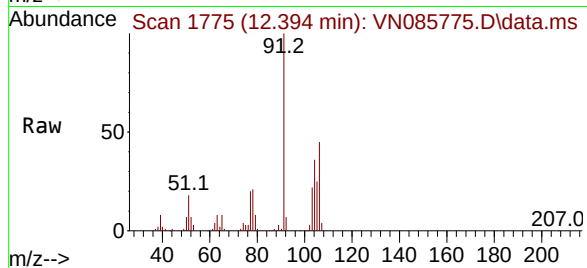
91 214.9 107.1 321.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#70

Styrene

Concen: 9.994 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

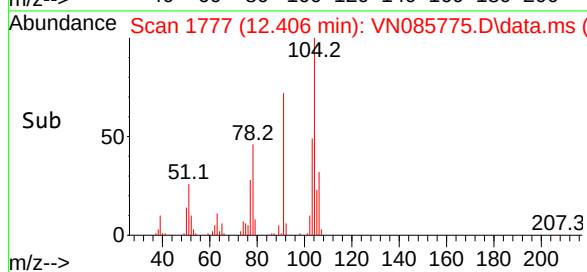
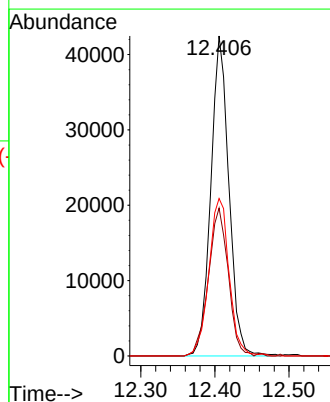
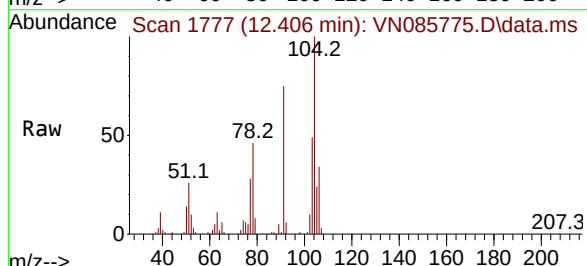
Tgt Ion:104 Resp: 72044

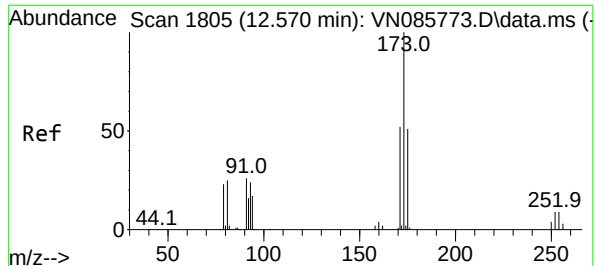
Ion Ratio Lower Upper

104 100

78 50.4 39.0 58.6

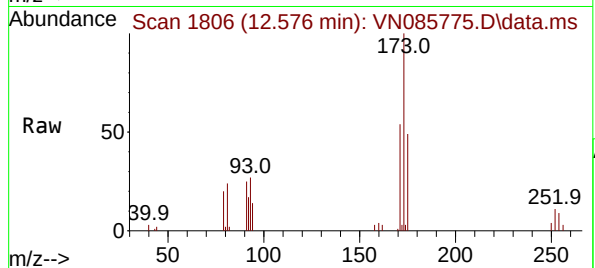
103 55.1 43.3 64.9





#71
Bromoform
Concen: 10.529 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

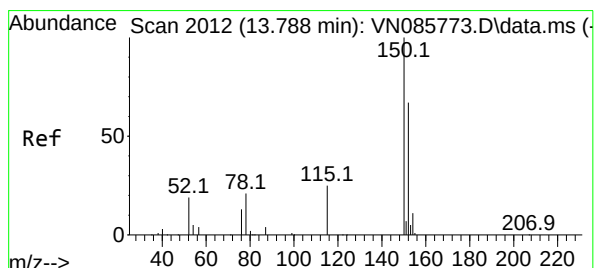
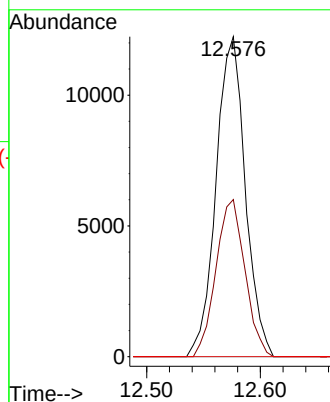
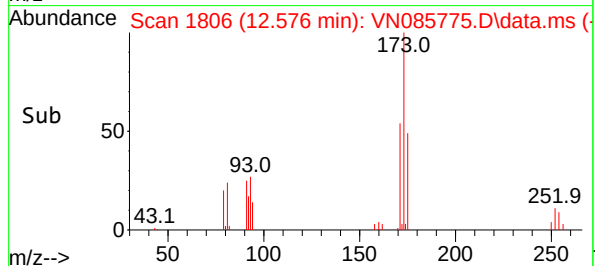
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



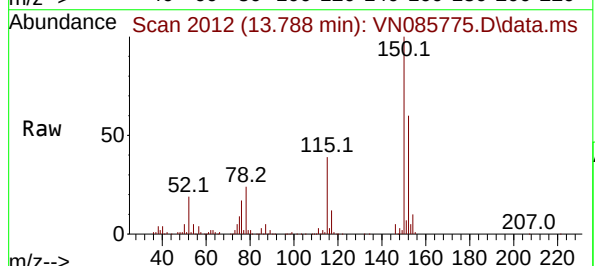
Tgt Ion:173 Resp: 2188
Ion Ratio Lower Upper
173 100
175 48.6 25.1 75.4
254 0.0 0.0 0.0

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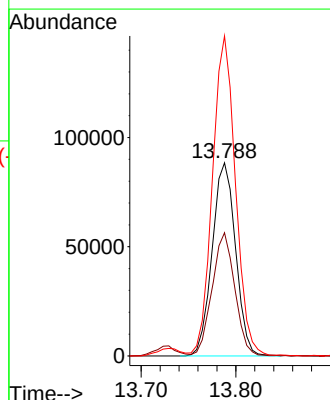
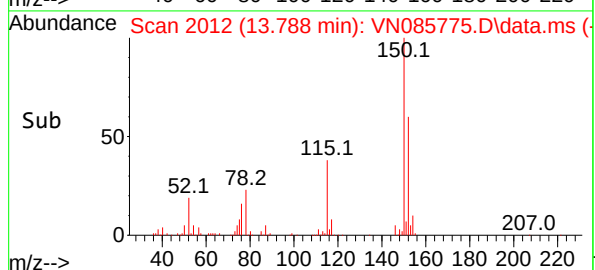
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

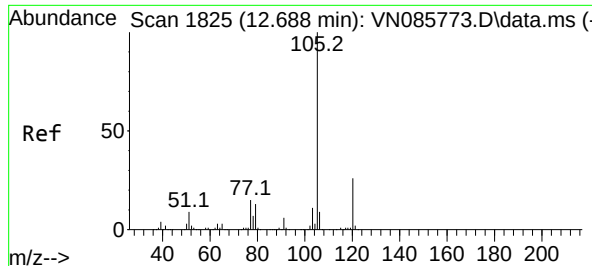


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20



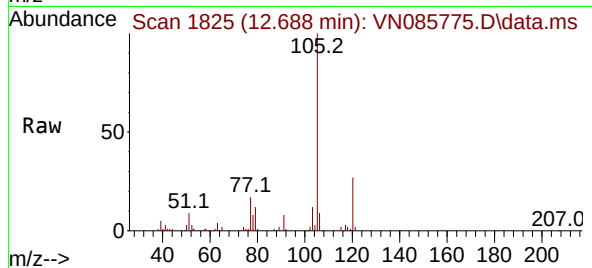
Tgt Ion:152 Resp: 151740
Ion Ratio Lower Upper
152 100
115 61.4 30.4 91.3
150 163.2 0.0 345.4





#73
Isopropylbenzene
Concen: 10.576 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

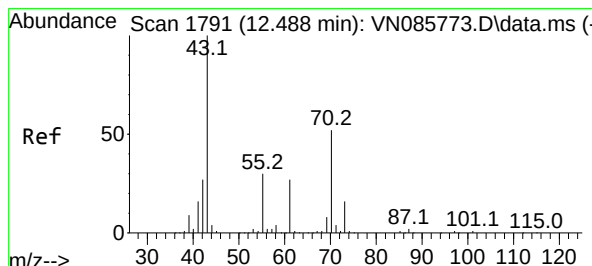
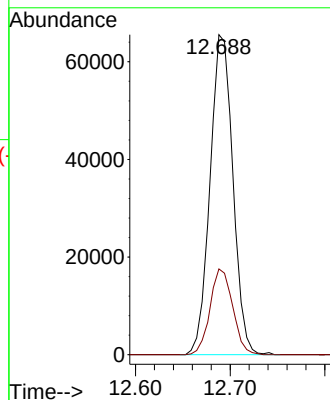
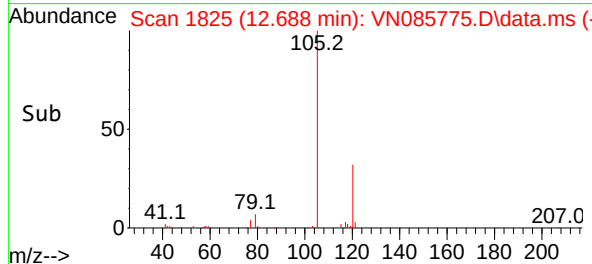
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



Tgt Ion: 105 Resp: 10994
Ion Ratio Lower Upper
105 100
120 26.6 13.0 39.0

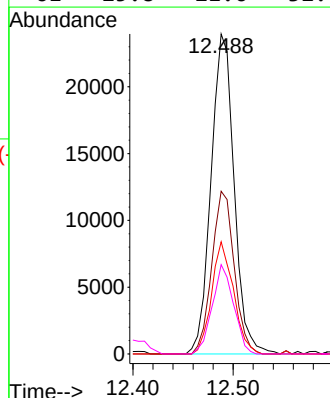
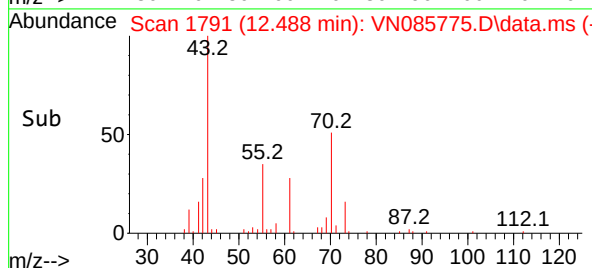
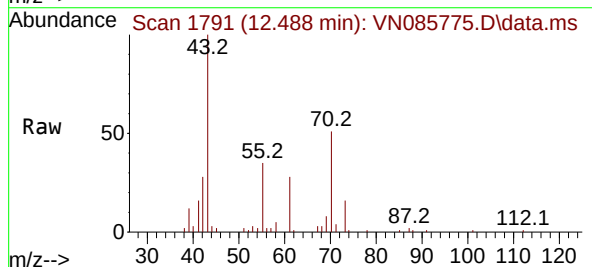
Manual Integrations
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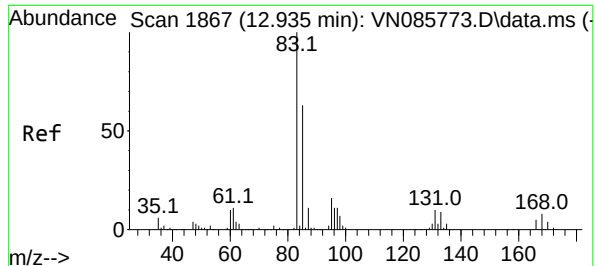
Reviewed By : John Carlone 02/19/2025
Supervised By : Mahesh Dadoda 02/19/2025



#74
N-ethyl acetate
Concen: 10.452 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 43 Resp: 38318
Ion Ratio Lower Upper
43 100
70 49.4 41.0 61.4
55 33.3 24.6 36.8
61 25.8 21.6 32.4





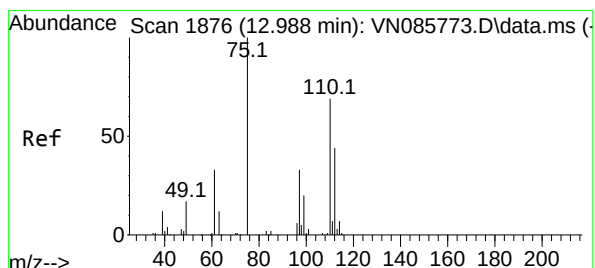
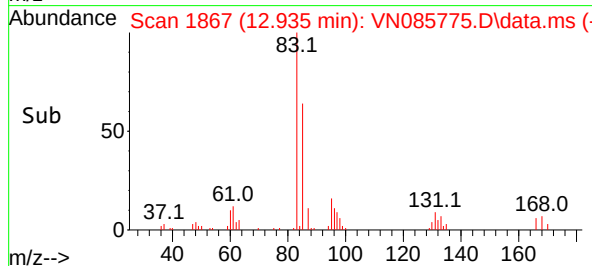
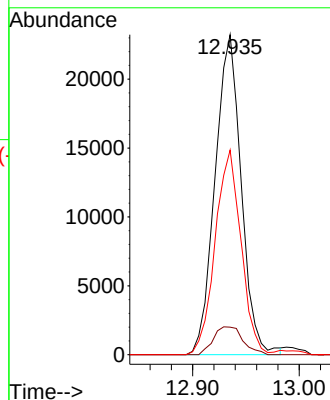
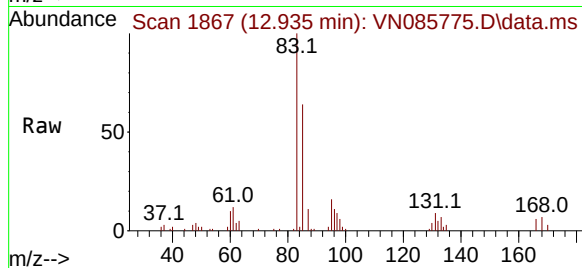
#75
1,1,2,2-Tetrachloroethane
Concen: 11.063 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 3957
Ion Ratio Lower Upper
83 100
131 9.8 5.0 15.0
85 63.3 32.2 96.6

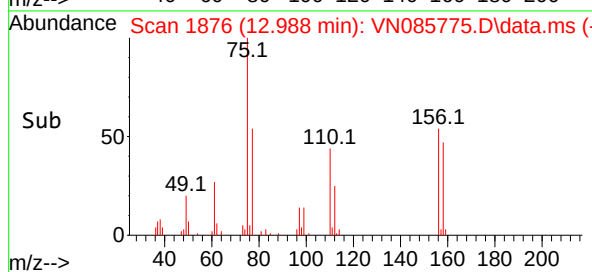
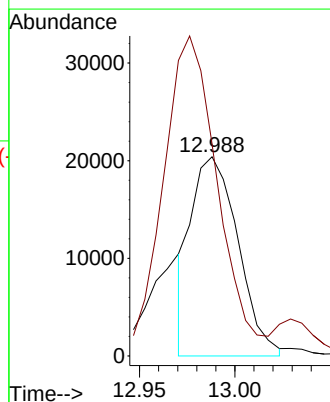
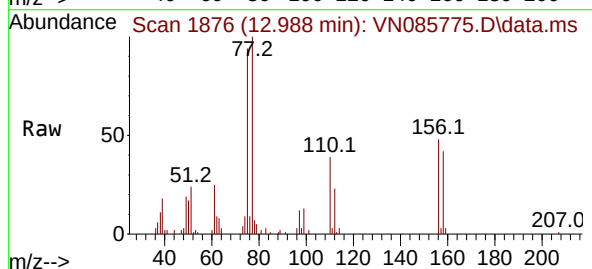
Manual Integrations
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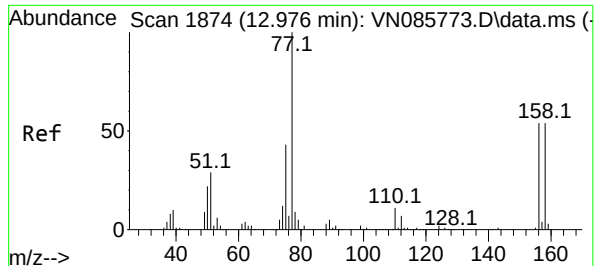
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#76
1,2,3-Trichloropropane
Concen: 10.425 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

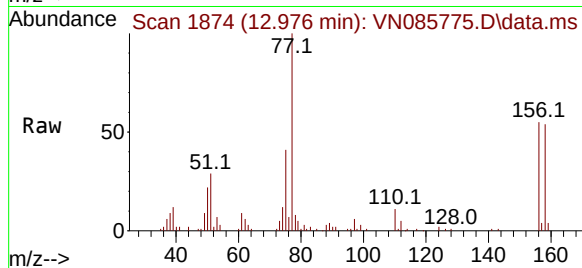
Tgt Ion: 75 Resp: 34754
Ion Ratio Lower Upper
75 100
77 188.3 100.0 300.0





#77
Bromobenzene
Concen: 11.061 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

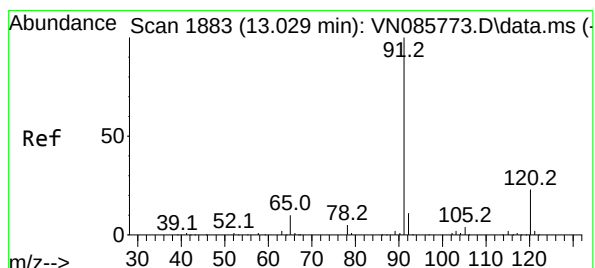
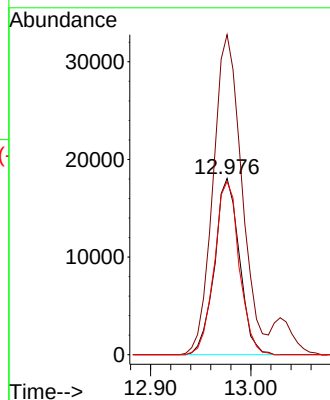
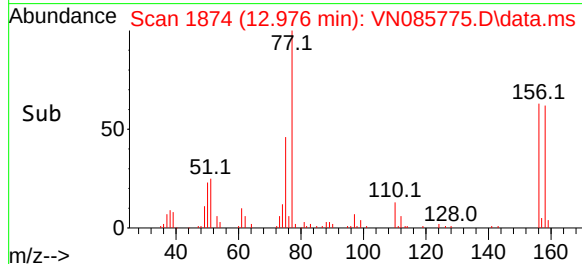
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



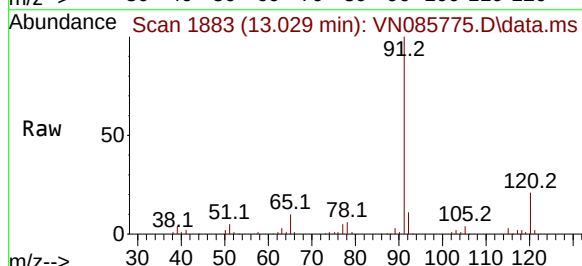
Tgt Ion:156 Resp: 31060
Ion Ratio Lower Upper
156 100
77 210.7 104.1 312.3
158 98.4 48.1 144.4

Manual Integrations
APPROVED

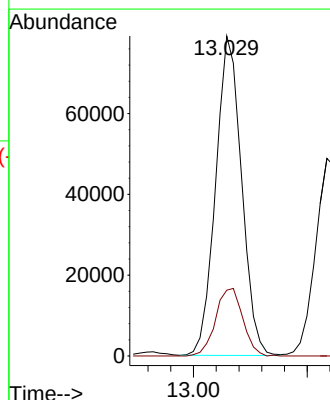
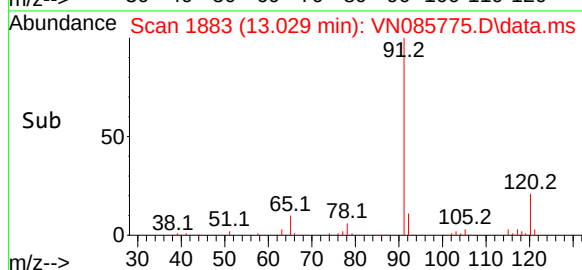
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

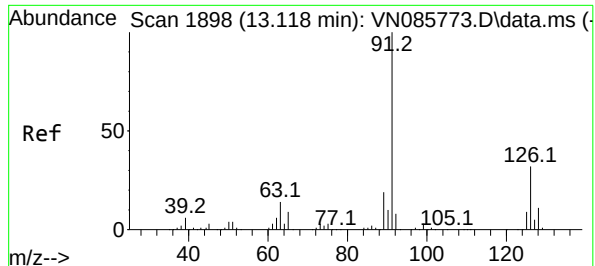


#78
n-propylbenzene
Concen: 10.517 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20



Tgt Ion: 91 Resp: 125206
Ion Ratio Lower Upper
91 100
120 22.2 11.3 33.8





#79

2-Chlorotoluene

Concen: 10.841 ug/l

RT: 13.117 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 8623

Ion Ratio Lower Upper

91 100

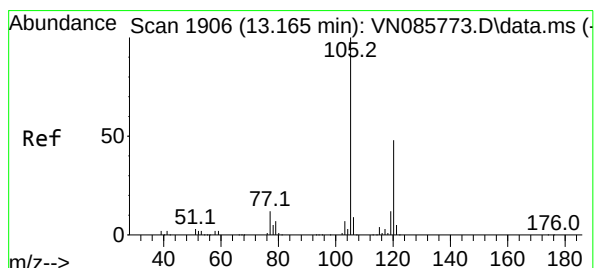
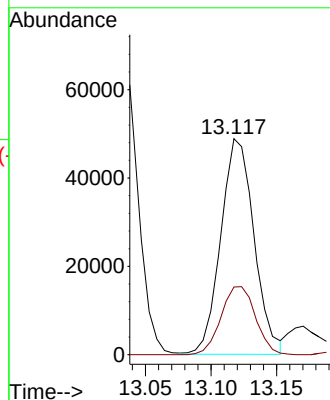
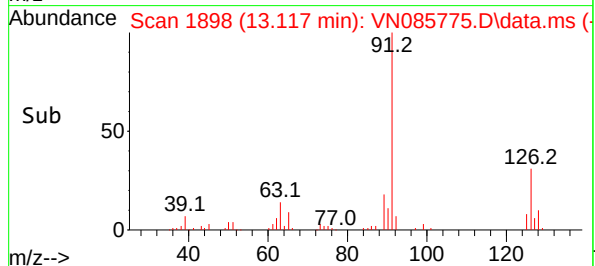
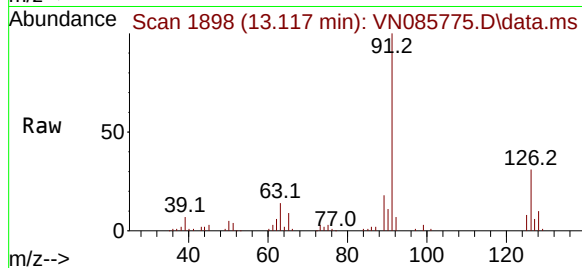
126 32.6 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 10.713 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085775.D

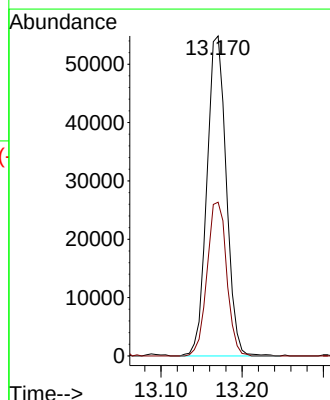
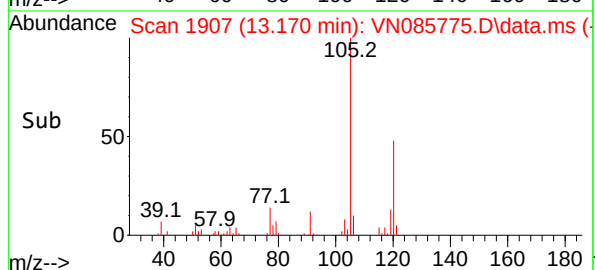
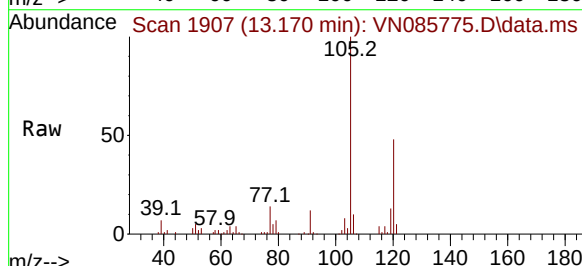
Acq: 18 Feb 2025 12:20

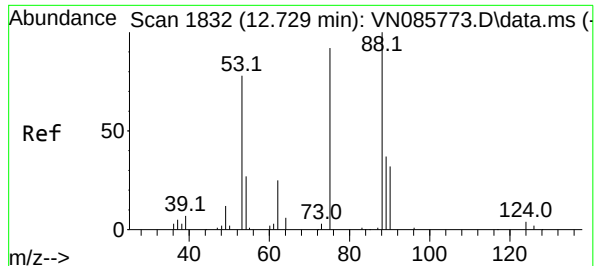
Tgt Ion:105 Resp: 90718

Ion Ratio Lower Upper

105 100

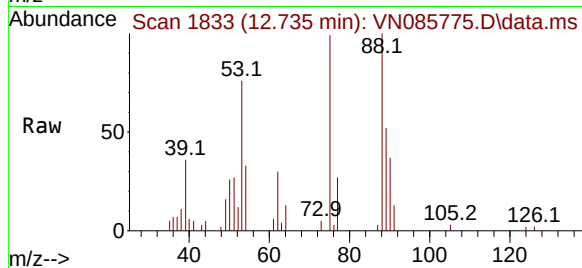
120 48.6 24.3 72.9





#81
trans-1,4-Dichloro-2-butene
Concen: 10.302 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.006 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

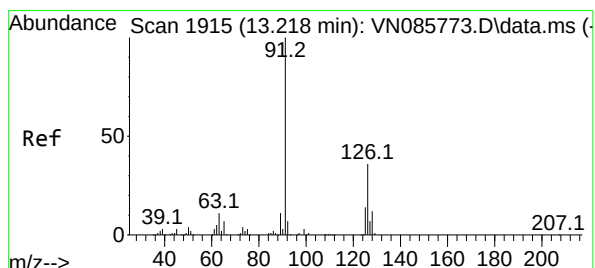
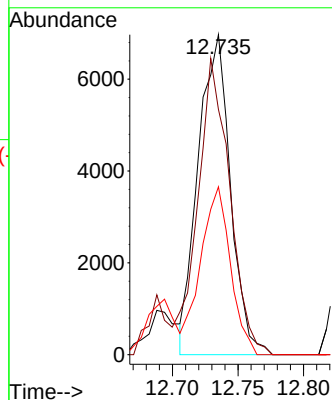
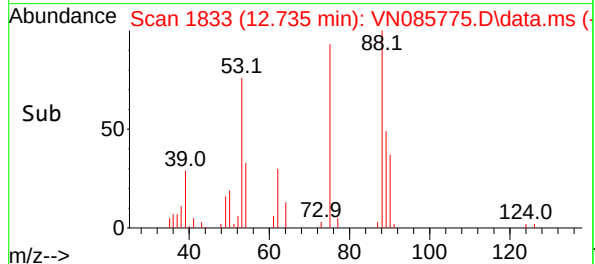
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010



Tgt Ion: 75 Resp: 1190
Ion Ratio Lower Upper
75 100
53 92.1 74.2 111.4
89 48.8 34.9 52.3

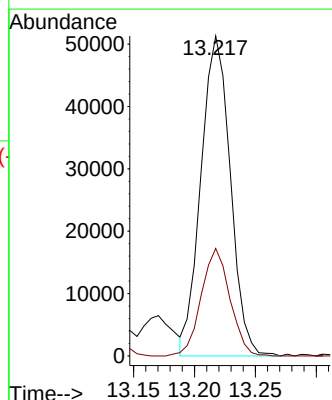
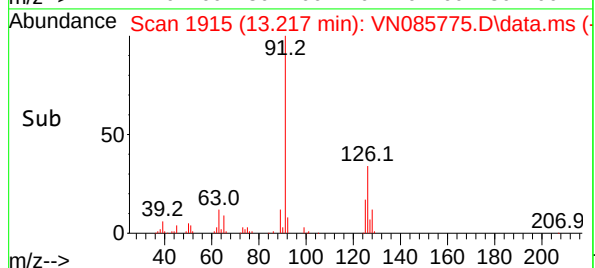
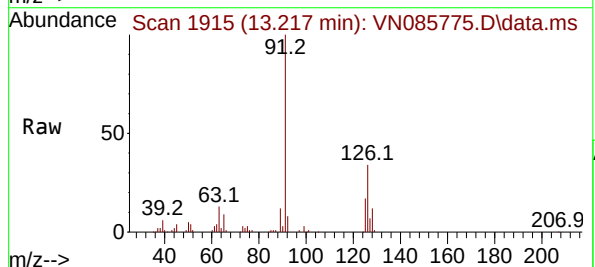
Manual Integrations
APPROVED

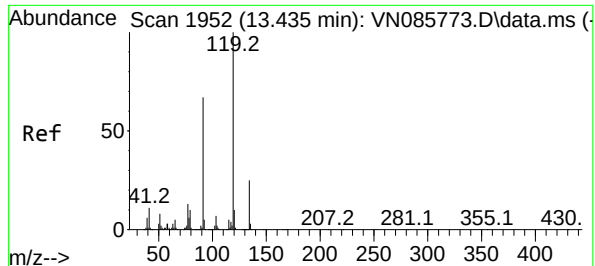
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#82
4-Chlorotoluene
Concen: 10.919 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

Tgt Ion: 91 Resp: 86106
Ion Ratio Lower Upper
91 100
126 32.8 16.4 49.4





#83

tert-Butylbenzene

Concen: 10.364 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

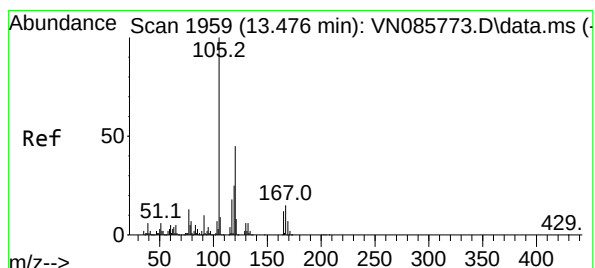
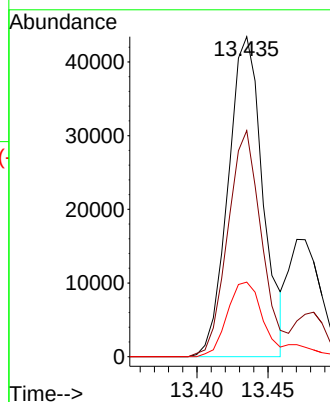
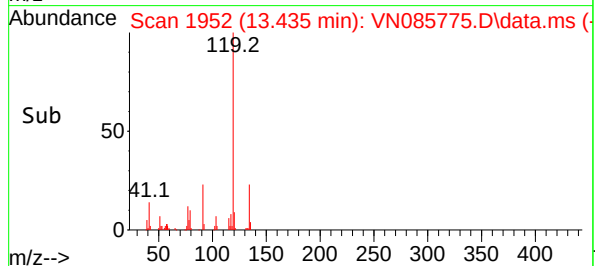
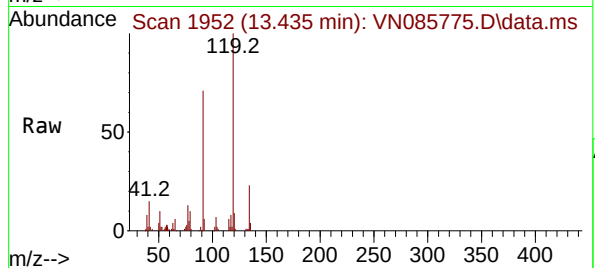
VSTDIC010

Tgt Ion:	119	Resp:	7380
Ion Ratio	Lower	Upper	
119	100		
91	69.5	32.5	97.5
134	26.5	13.3	39.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 10.638 ug/l

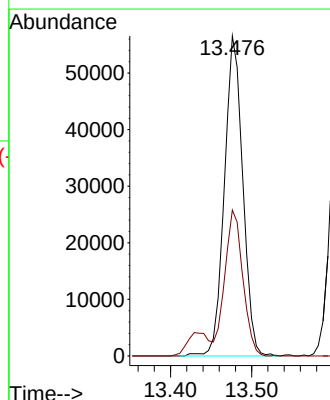
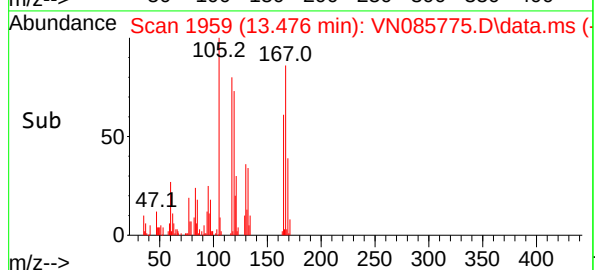
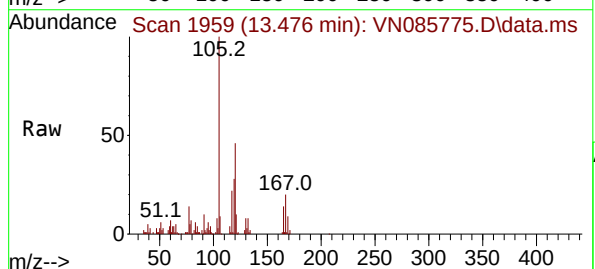
RT: 13.476 min Scan# 1959

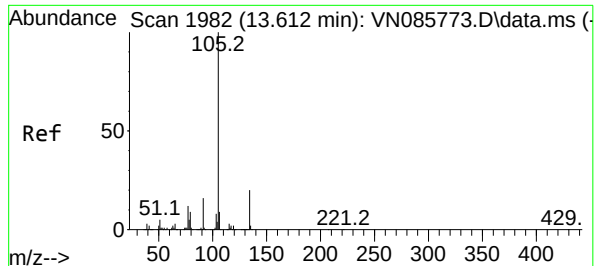
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	105	Resp:	89125
Ion Ratio	Lower	Upper	
105	100		
120	44.6	22.4	67.3





#85

sec-Butylbenzene

Concen: 10.660 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.001 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:105 Resp: 10725

Ion Ratio Lower Upper

105 100

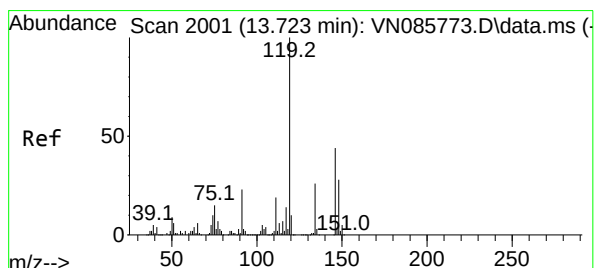
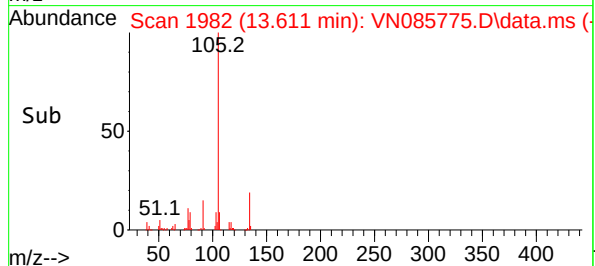
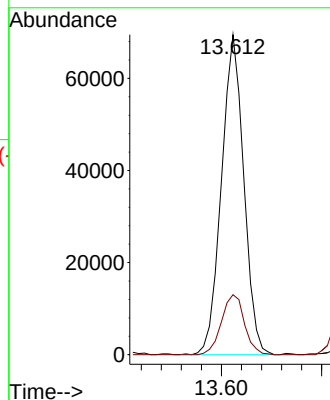
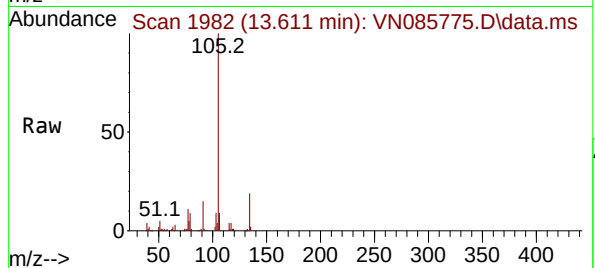
134 19.3 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 10.256 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

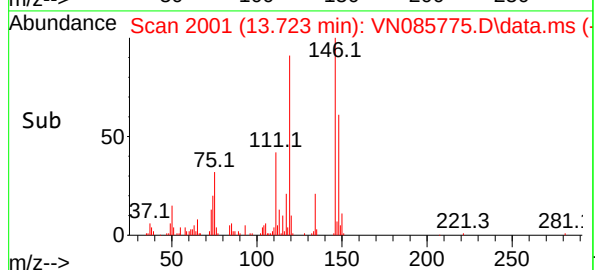
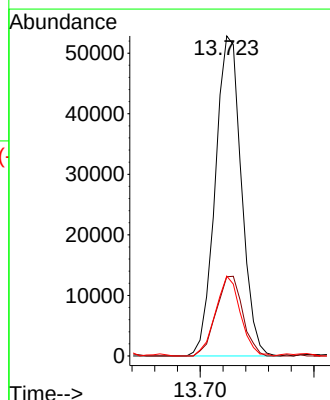
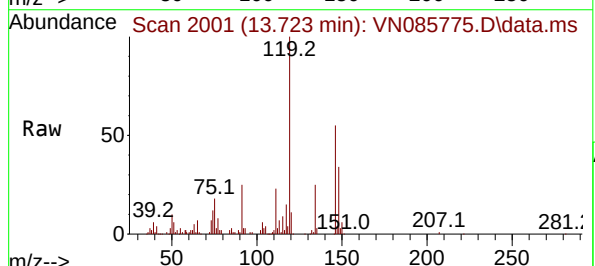
Tgt Ion:119 Resp: 84249

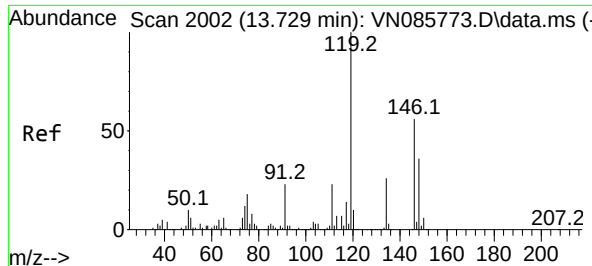
Ion Ratio Lower Upper

119 100

134 25.3 13.0 39.0

91 23.9 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 10.822 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

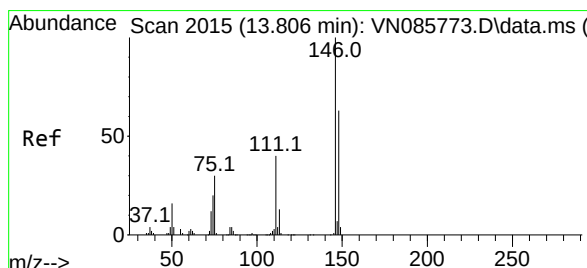
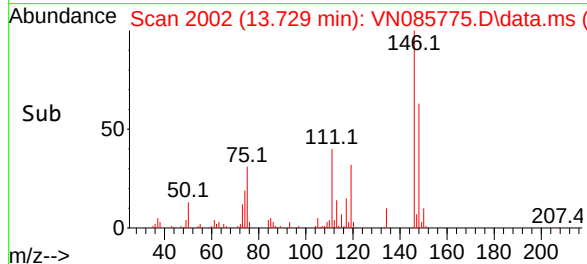
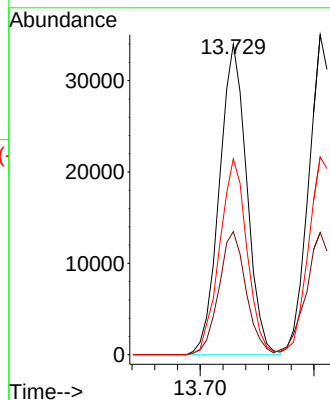
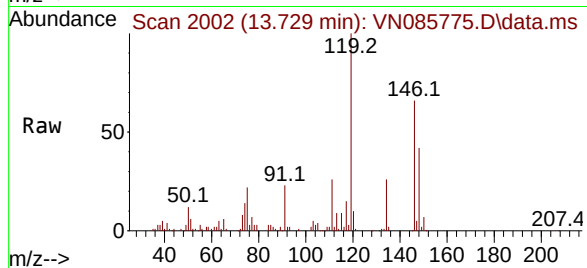
VSTDIC010

Tgt Ion:	146	Resp:	5694
Ion Ratio	Lower	Upper	
146	100		
111	39.4	21.1	63.3
148	63.2	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 10.600 ug/l

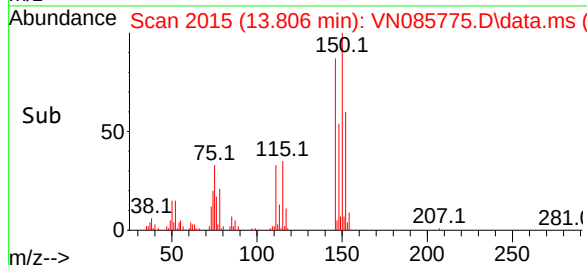
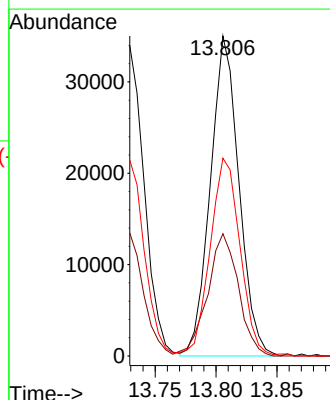
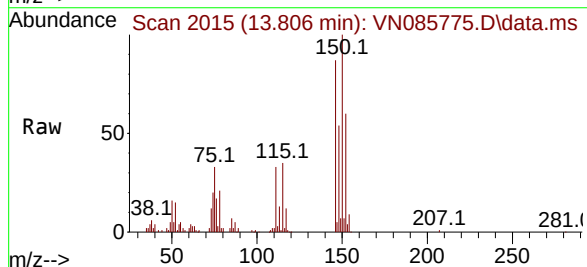
RT: 13.806 min Scan# 2015

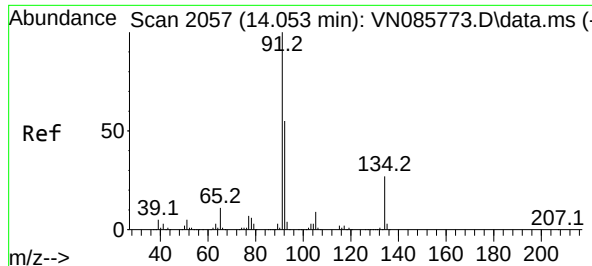
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	146	Resp:	57166
Ion Ratio	Lower	Upper	
146	100		
111	41.3	20.4	61.3
148	65.0	31.8	95.4





#89

n-Butylbenzene

Concen: 9.931 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

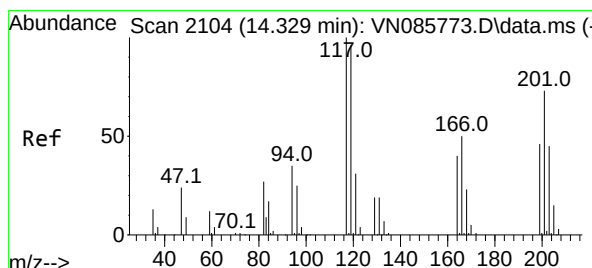
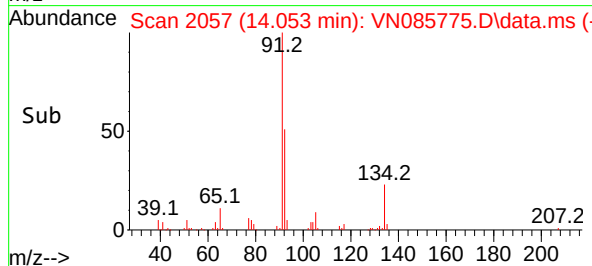
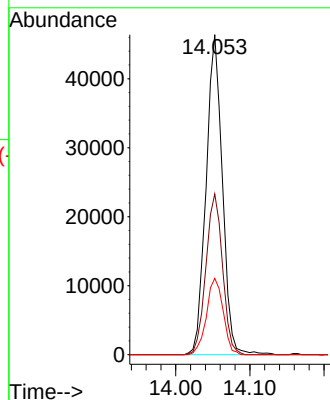
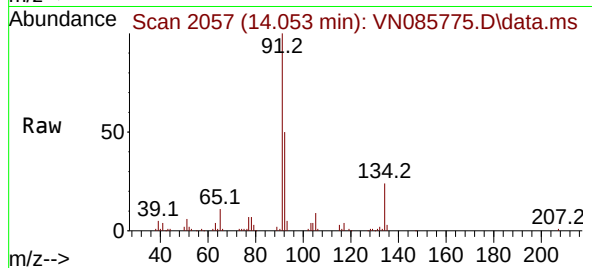
VSTDICC010

Tgt Ion:	91	Resp:	70940
Ion	Ratio	Lower	Upper
91	100		
92	51.2	27.1	81.3
134	24.4	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#90

Hexachloroethane

Concen: 10.119 ug/l

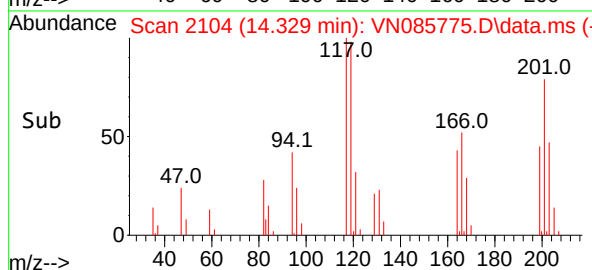
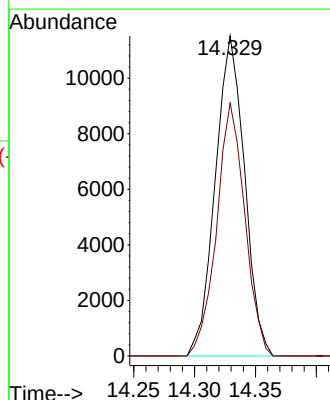
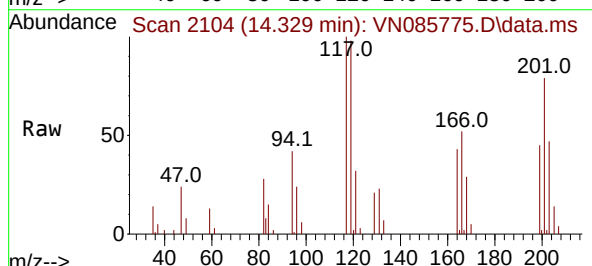
RT: 14.329 min Scan# 2104

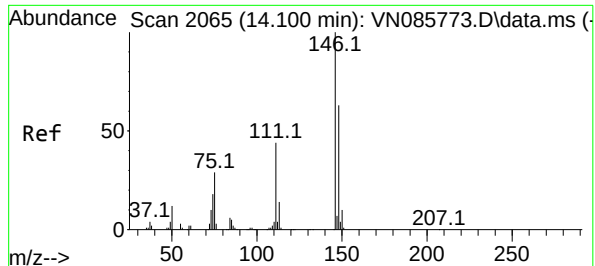
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	117	Resp:	19282
Ion	Ratio	Lower	Upper
117	100		
201	76.1	35.6	106.9





#91

1,2-Dichlorobenzene

Concen: 10.602 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

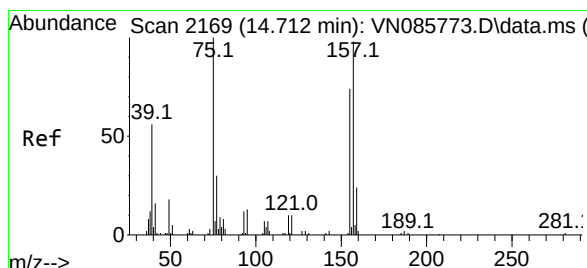
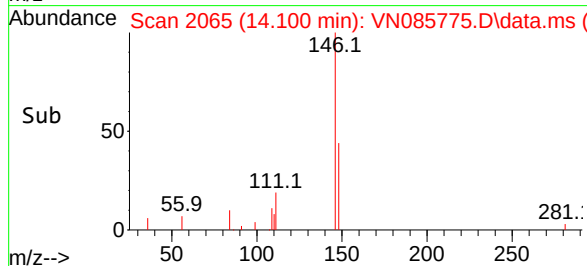
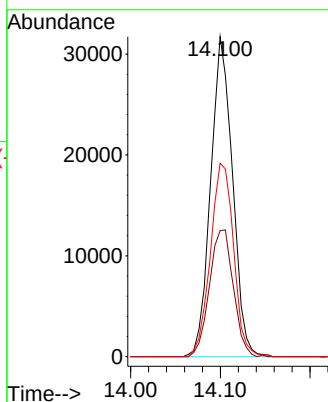
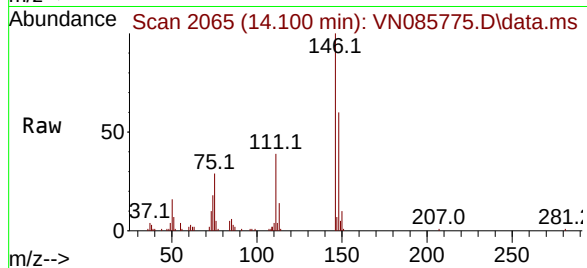
VSTDIC010

Tgt Ion:	146	Resp:	5364
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.4	64.3
148	64.3	32.0	96.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.996 ug/l

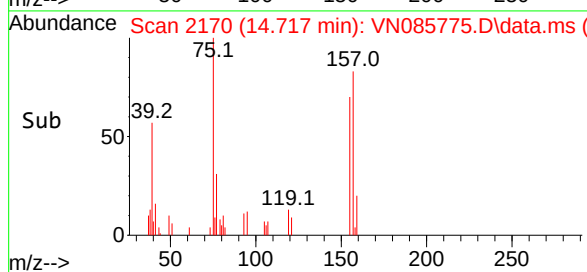
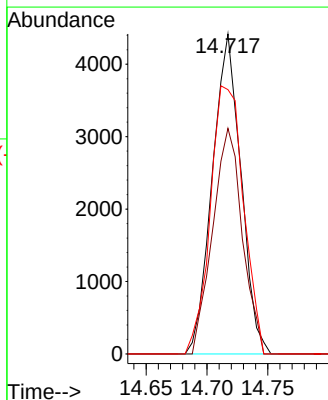
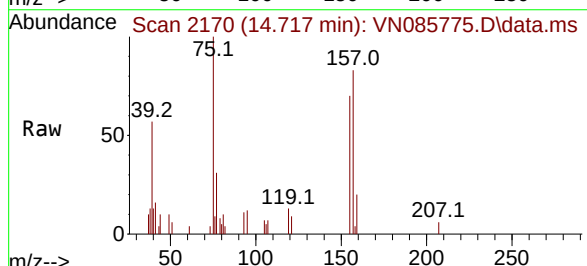
RT: 14.717 min Scan# 2170

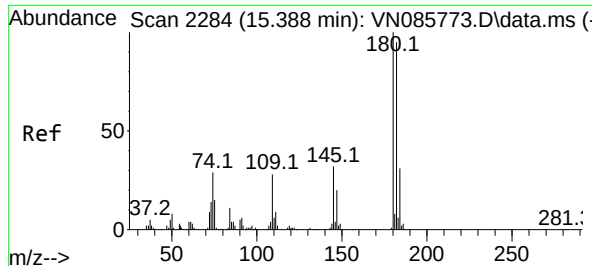
Delta R.T. 0.006 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Tgt Ion:	75	Resp:	7223
Ion	Ratio	Lower	Upper
75	100		
155	73.0	39.9	119.6
157	96.9	49.9	149.7





#93

1,2,4-Trichlorobenzene

Concen: 10.406 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

Instrument :

MSVOA_N

ClientSampleId :

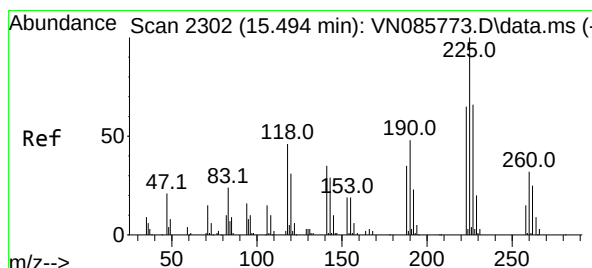
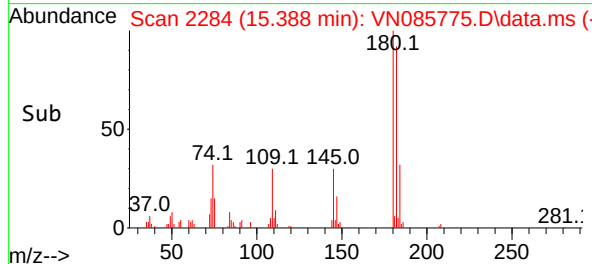
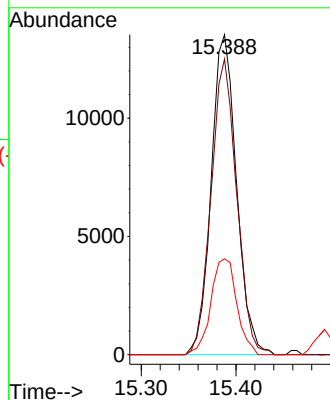
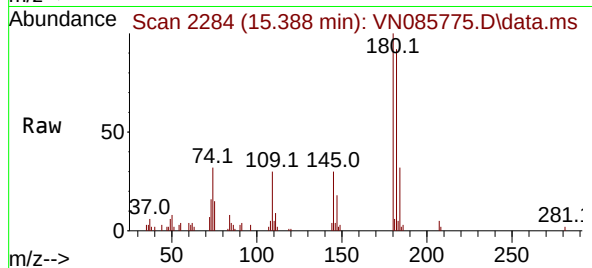
VSTDIC010

Tgt Ion:	180	Resp:	25090
Ion Ratio	Lower	Upper	
180	100		
182	93.4	47.3	141.9
145	30.7	16.2	48.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

Concen: 10.426 ug/l

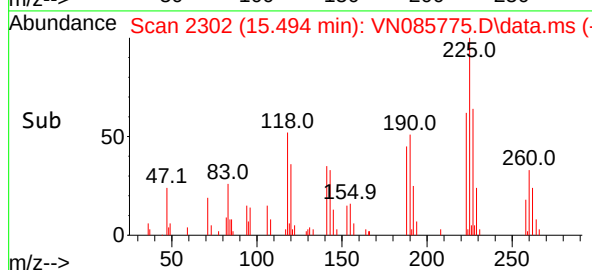
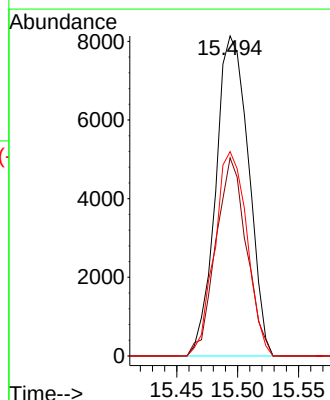
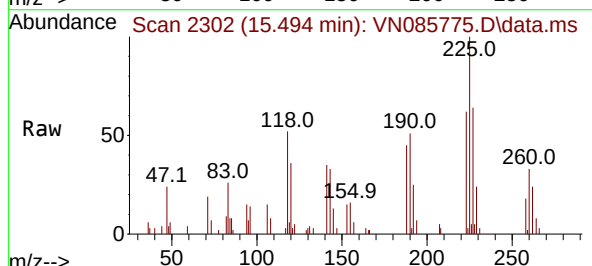
RT: 15.494 min Scan# 2302

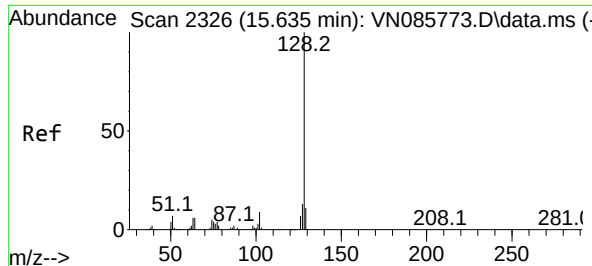
Delta R.T. -0.000 min

Lab File: VN085775.D

Acq: 18 Feb 2025 12:20

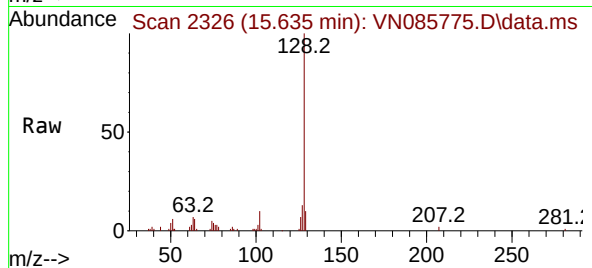
Tgt Ion:	225	Resp:	15278
Ion Ratio	Lower	Upper	
225	100		
223	58.1	31.9	95.5
227	62.8	32.2	96.6





#95
Naphthalene
Concen: 9.902 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20

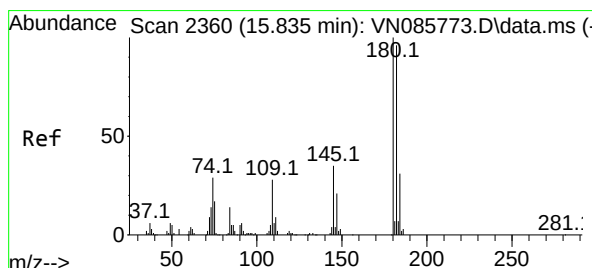
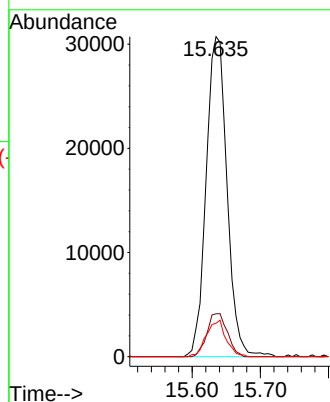
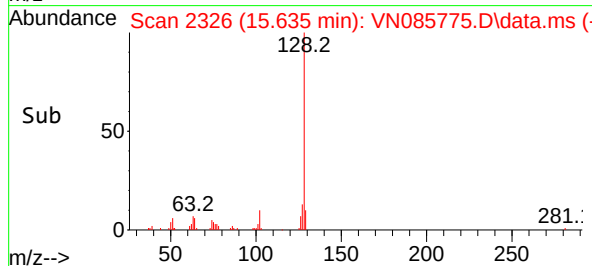
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010



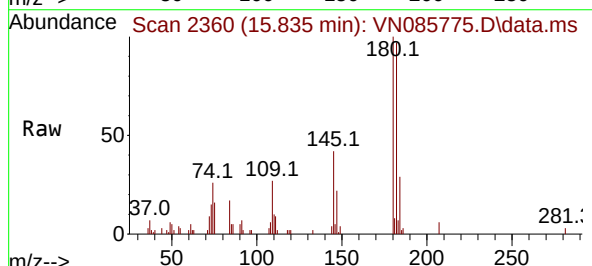
Tgt Ion:128 Resp: 65549
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.2
129 10.7 8.7 13.1

Manual Integrations
APPROVED

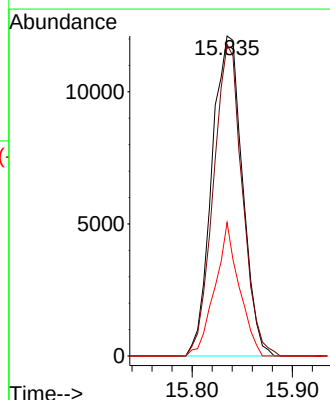
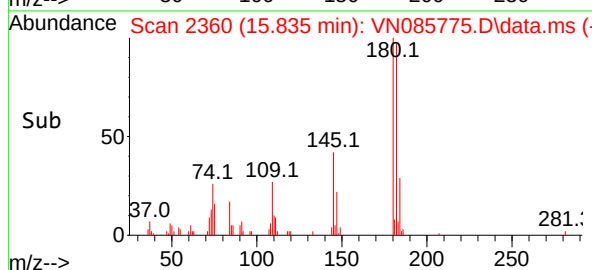
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 10.581 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085775.D
Acq: 18 Feb 2025 12:20



Tgt Ion:180 Resp: 25612
Ion Ratio Lower Upper
180 100
182 92.2 47.3 141.8
145 33.0 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085776.D
 Acq On : 18 Feb 2025 12:43
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Feb 19 03:18:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	272461	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	471970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	396883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	179241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	20906	5.918	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.840%#		
35) Dibromofluoromethane	8.165	113	16866	5.461	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.920%#		
50) Toluene-d8	10.559	98	57180	5.089	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.180%#		
62) 4-Bromofluorobenzene	12.841	95	17484	4.723	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.440%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	17717	4.781	ug/l	97
3) Chloromethane	2.359	50	18038	4.850	ug/l	98
4) Vinyl Chloride	2.512	62	19849	5.041	ug/l	93
5) Bromomethane	2.953	94	13523	5.371	ug/l	97
6) Chloroethane	3.118	64	12801	4.908	ug/l	93
7) Trichlorofluoromethane	3.500	101	29008	5.088	ug/l	92
8) Diethyl Ether	3.959	74	9618	5.214	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	17299	5.250	ug/l	98
10) Methyl Iodide	4.595	142	19721	4.855	ug/l #	88
11) Tert butyl alcohol	5.518	59	11272	25.945	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	15564	5.209	ug/l	96
13) Acrolein	4.177	56	17171	26.652	ug/l	95
14) Allyl chloride	5.012	41	19720	5.027	ug/l	94
15) Acrylonitrile	5.718	53	35404	25.067	ug/l	98
16) Acetone	4.424	43	28402	25.411	ug/l	100
17) Carbon Disulfide	4.706	76	43711	4.936	ug/l	96
18) Methyl Acetate	5.018	43	18793	4.888	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	42491	4.786	ug/l	98
20) Methylene Chloride	5.271	84	18139	5.046	ug/l #	88
21) trans-1,2-Dichloroethene	5.783	96	16330	5.076	ug/l	93
22) Diisopropyl ether	6.671	45	42703	4.817	ug/l	95
23) Vinyl Acetate	6.594	43	140821m	23.273	ug/l	
24) 1,1-Dichloroethane	6.565	63	30658	5.088	ug/l #	93
25) 2-Butanone	7.477	43	40795	24.809	ug/l	95
26) 2,2-Dichloropropane	7.488	77	26889	5.018	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	18673	5.006	ug/l	98
28) Bromochloromethane	7.806	49	15543	6.276	ug/l	91
29) Tetrahydrofuran	7.841	42	24907	23.457	ug/l	98
30) Chloroform	7.959	83	31702	5.034	ug/l	100
31) Cyclohexane	8.247	56	28784	5.705	ug/l	91
32) 1,1,1-Trichloroethane	8.165	97	28815	5.145	ug/l #	50
36) 1,1-Dichloropropene	8.365	75	20593	4.711	ug/l	98
37) Ethyl Acetate	7.553	43	17768	4.940	ug/l #	85
38) Carbon Tetrachloride	8.353	117	25734	4.955	ug/l	95
39) Methylcyclohexane	9.594	83	19113	4.451	ug/l	97
40) Benzene	8.600	78	67051	4.786	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085776.D
 Acq On : 18 Feb 2025 12:43
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	9296	4.835	ug/l	98
42) 1,2-Dichloroethane	8.665	62	21886	4.796	ug/l	99
43) Isopropyl Acetate	8.682	43	35032	5.059	ug/l	92
44) Trichloroethene	9.347	130	16513	4.801	ug/l	96
45) 1,2-Dichloropropane	9.618	63	16228	4.799	ug/l	97
46) Dibromomethane	9.706	93	11544	4.840	ug/l	98
47) Bromodichloromethane	9.888	83	25152	4.929	ug/l	96
48) Methyl methacrylate	9.677	41	12200	4.567	ug/l	97
49) 1,4-Dioxane	9.688	88	4669	91.913	ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	80666	23.260	ug/l	96
52) Toluene	10.629	92	38701	4.713	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	22215	4.708	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	24235	4.684	ug/l #	91
55) 1,1,2-Trichloroethane	11.012	97	16352	5.008	ug/l	94
56) Ethyl methacrylate	10.871	69	18032	4.704	ug/l	99
57) 1,3-Dichloropropane	11.159	76	26117	4.792	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	41567	14.159	ug/l	97
59) 2-Hexanone	11.188	43	53498	22.424	ug/l	94
60) Dibromochloromethane	11.353	129	18137	4.771	ug/l	98
61) 1,2-Dibromoethane	11.465	107	15097	4.894	ug/l	99
64) Tetrachloroethene	11.100	164	15504	5.043	ug/l	92
65) Chlorobenzene	11.888	112	45215	4.973	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	15949	4.880	ug/l	98
67) Ethyl Benzene	11.959	91	66079	4.640	ug/l	99
68) m/p-Xylenes	12.065	106	48412	8.949	ug/l	99
69) o-Xylene	12.394	106	23196	4.512	ug/l	100
70) Styrene	12.406	104	35138	4.557	ug/l	97
71) Bromoform	12.576	173	11934	4.915	ug/l #	94
73) Isopropylbenzene	12.694	105	54982	4.477	ug/l	99
74) N-amyl acetate	12.488	43	20017	4.623	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.929	83	21823	5.164	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	20813m	5.285	ug/l	
77) Bromobenzene	12.976	156	16215	4.888	ug/l	95
78) n-propylbenzene	13.029	91	62073	4.414	ug/l	99
79) 2-Chlorotoluene	13.117	91	43457	4.625	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	43342	4.333	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.729	75	6070	4.448	ug/l	90
82) 4-Chlorotoluene	13.217	91	43684	4.690	ug/l	100
83) tert-Butylbenzene	13.435	119	37975	4.515	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	42792	4.324	ug/l	97
85) sec-Butylbenzene	13.612	105	52659	4.431	ug/l	98
86) p-Isopropyltoluene	13.723	119	41010	4.632	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	30417	4.894	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	31847	4.999	ug/l	96
89) n-Butylbenzene	14.053	91	36427	4.317	ug/l	98
90) Hexachloroethane	14.329	117	11276	5.010	ug/l	99
91) 1,2-Dichlorobenzene	14.100	146	29424	4.923	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.711	75	3987	5.138	ug/l	89
93) 1,2,4-Trichlorobenzene	15.388	180	13040	4.578	ug/l	96
94) Hexachlorobutadiene	15.494	225	8623	4.982	ug/l	98
95) Naphthalene	15.635	128	33300	4.259	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	13188	4.612	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085776.D
Acq On : 18 Feb 2025 12:43
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:18:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

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

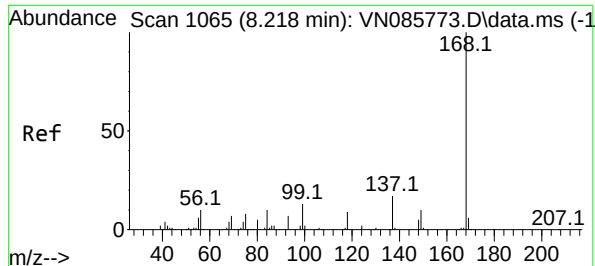
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025





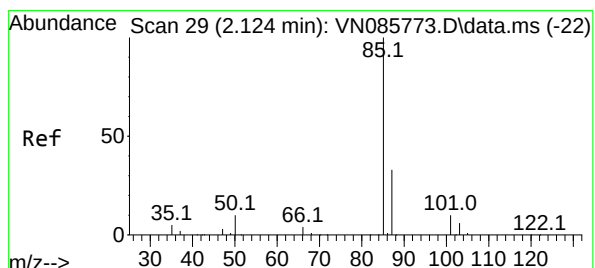
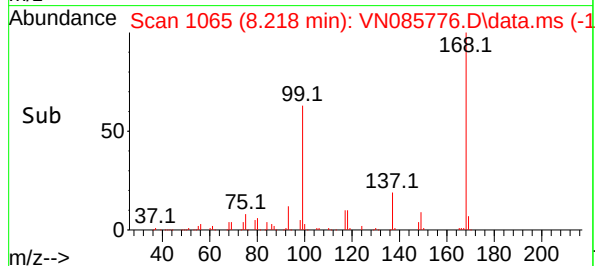
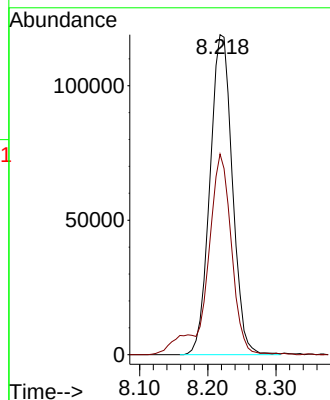
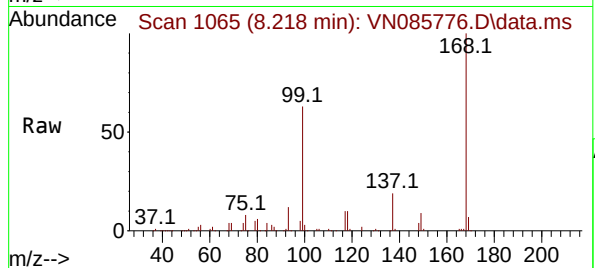
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 27246
Ion Ratio Lower Upper
168 100
99 62.5 47.9 71.9

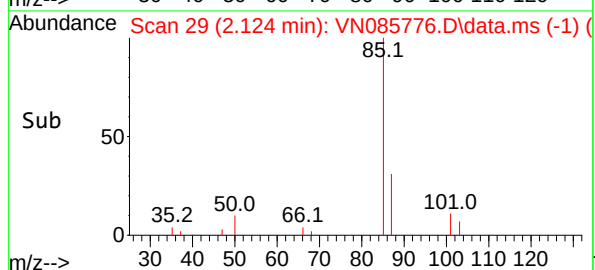
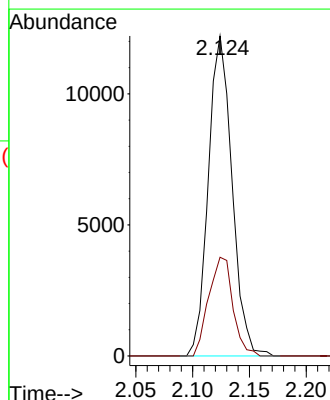
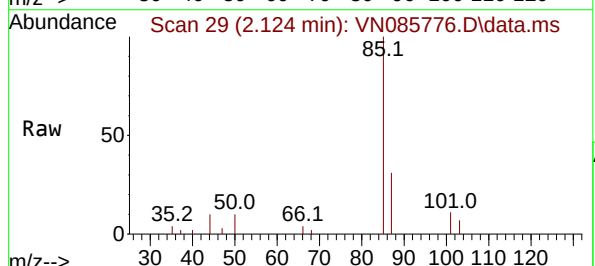
Manual Integrations
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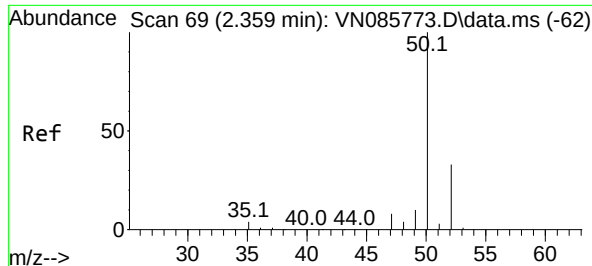
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 4.781 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 85 Resp: 17717
Ion Ratio Lower Upper
85 100
87 30.9 16.4 49.2





#3

Chloromethane

Concen: 4.850 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 50 Resp: 18038

Ion Ratio Lower Upper

50 100

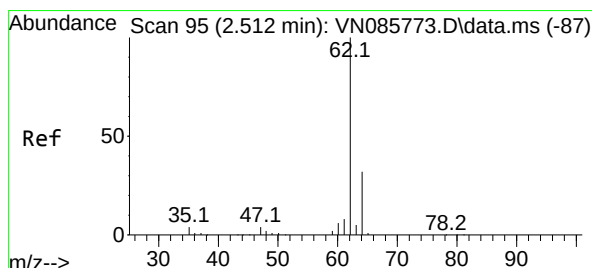
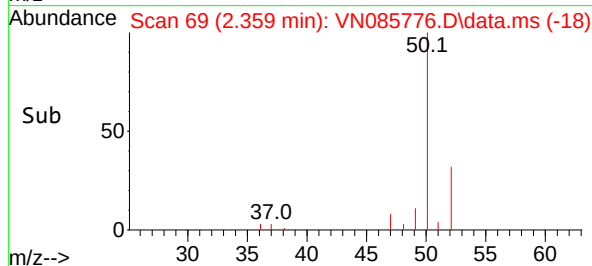
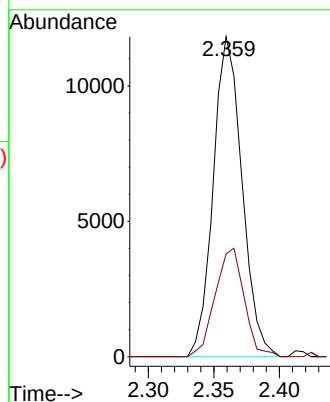
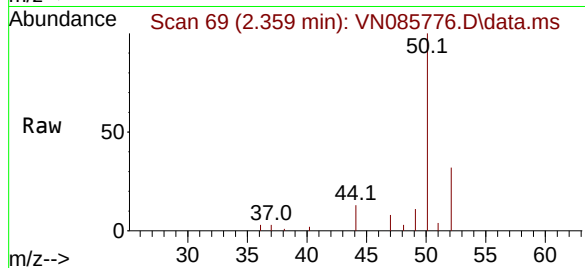
52 32.1 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#4

Vinyl Chloride

Concen: 5.041 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085776.D

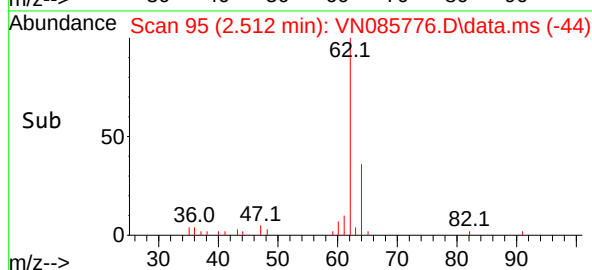
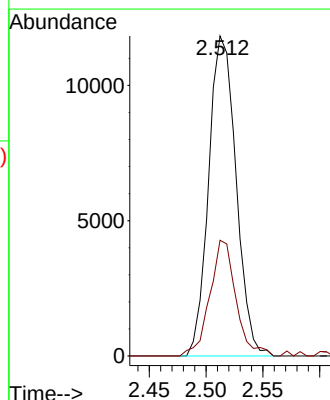
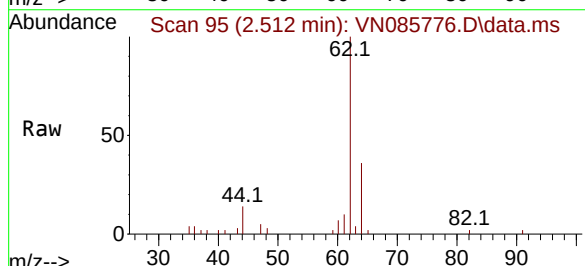
Acq: 18 Feb 2025 12:43

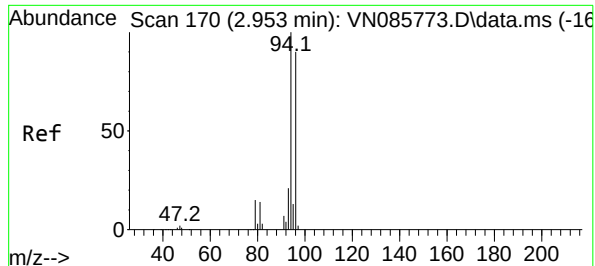
Tgt Ion: 62 Resp: 19849

Ion Ratio Lower Upper

62 100

64 36.2 25.9 38.9





#5

Bromomethane

Concen: 5.371 ug/l

RT: 2.953 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 1352

Ion Ratio Lower Upper

94 100

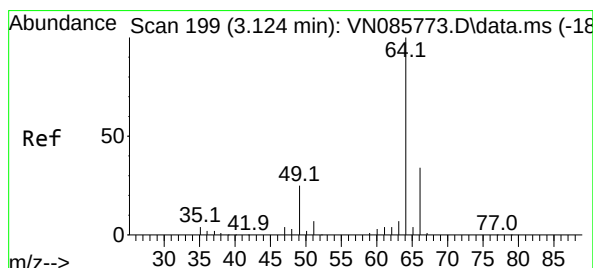
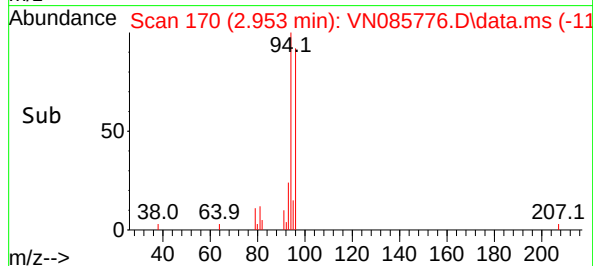
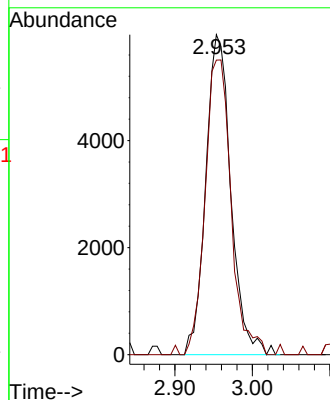
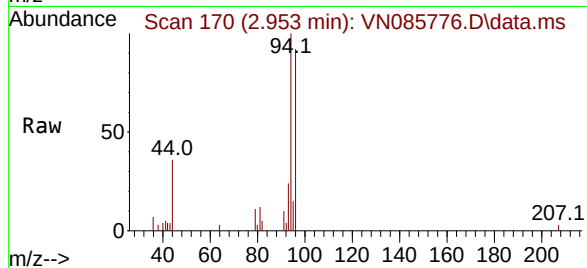
96 92.1 71.7 107.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#6

Chloroethane

Concen: 4.908 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN085776.D

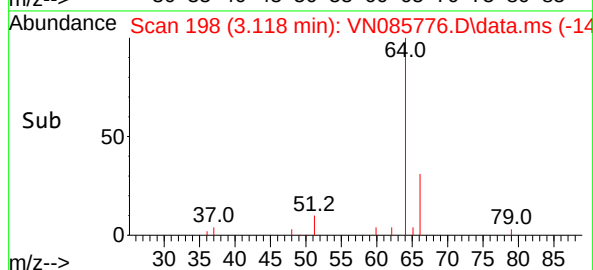
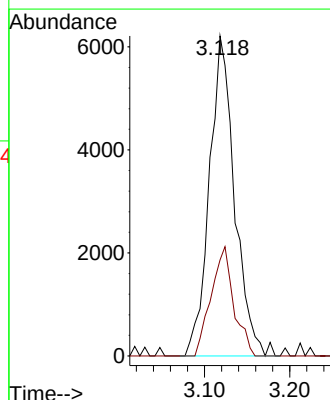
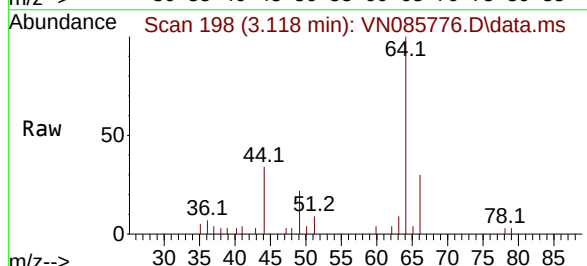
Acq: 18 Feb 2025 12:43

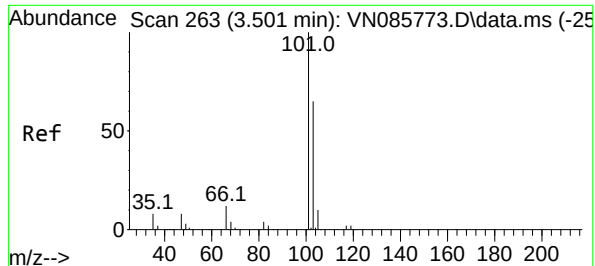
Tgt Ion: 64 Resp: 12801

Ion Ratio Lower Upper

64 100

66 30.0 27.0 40.6





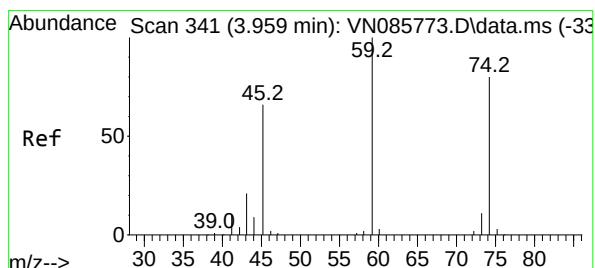
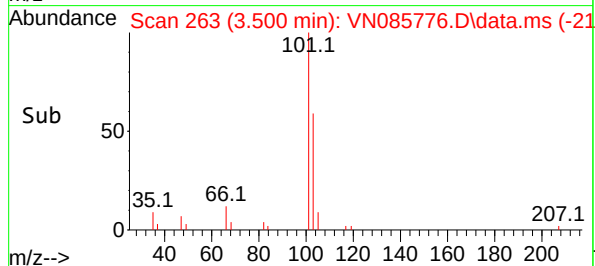
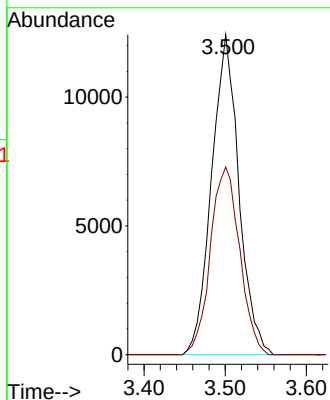
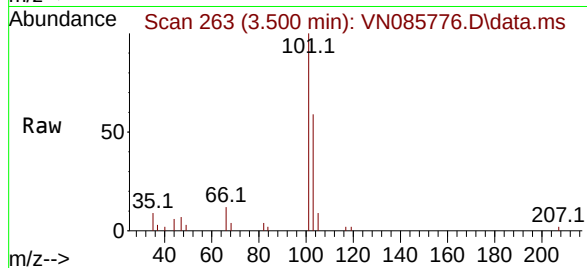
#7
Trichlorofluoromethane
Concen: 5.088 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 29008
Ion Ratio Lower Upper
101 100
103 58.7 52.2 78.4

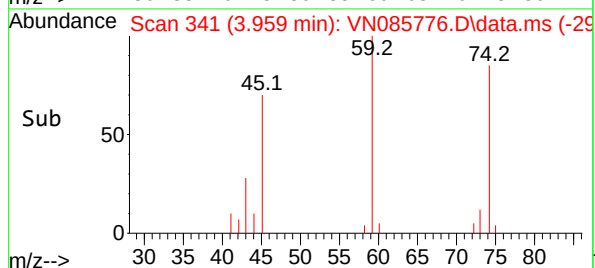
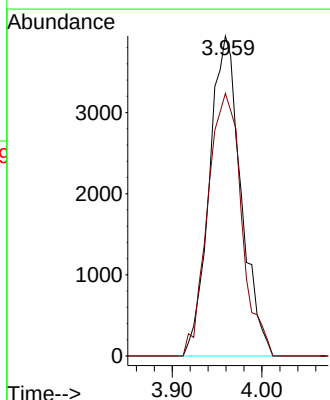
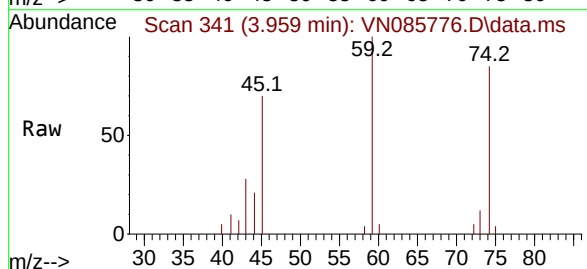
Manual Integrations
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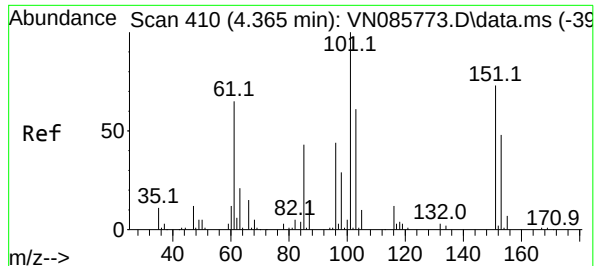
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#8
Diethyl Ether
Concen: 5.214 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 74 Resp: 9618
Ion Ratio Lower Upper
74 100
45 88.3 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.250 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

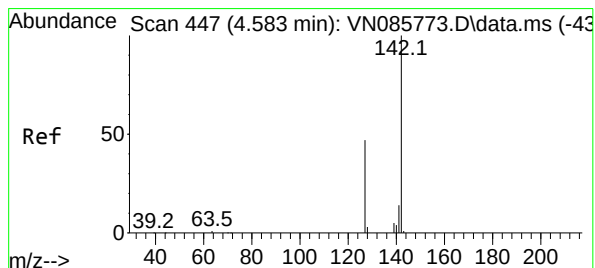
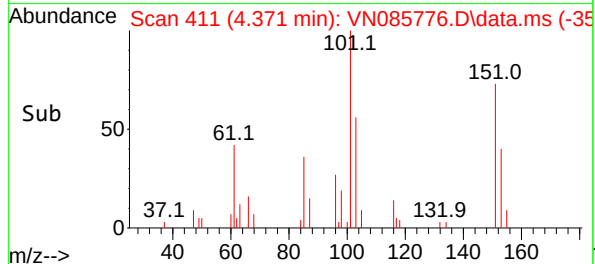
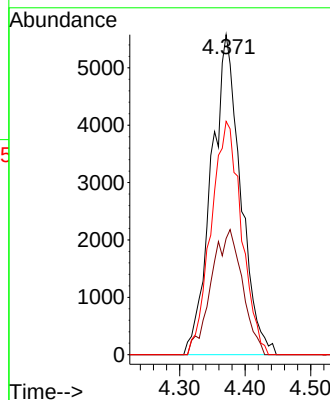
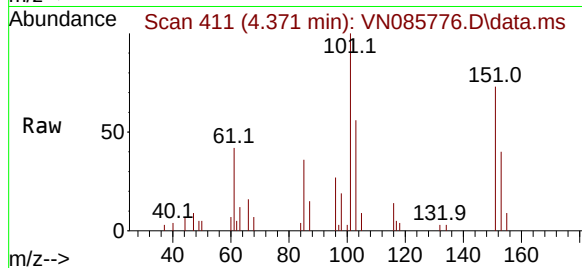
Tgt Ion	101	Resp	1729
Ion	Ratio	Lower	Upper
101	100		
85	41.7	35.7	53.5
151	75.6	61.4	92.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#10

Methyl Iodide

Concen: 4.855 ug/l

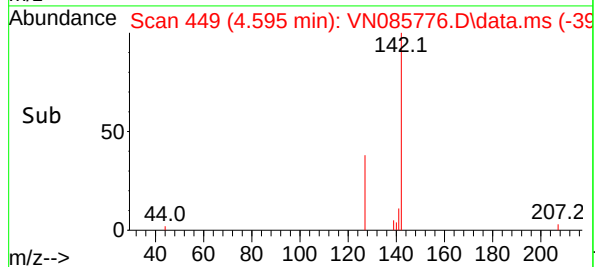
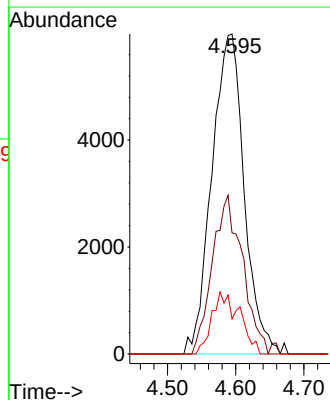
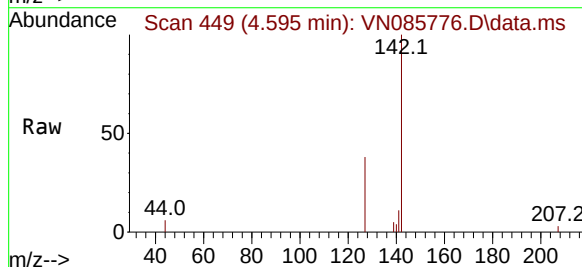
RT: 4.595 min Scan# 449

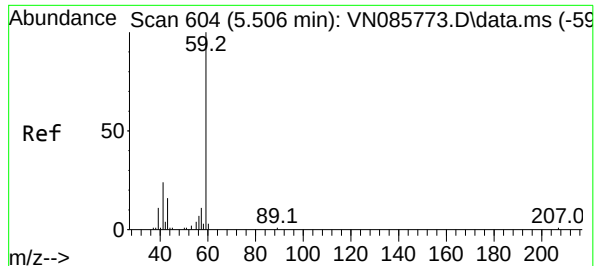
Delta R.T. 0.012 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion	142	Resp	19721
Ion	Ratio	Lower	Upper
142	100		
127	37.8	37.6	56.4
141	10.9	11.4	17.2





#11

Tert butyl alcohol

Concen: 25.945 ug/l

RT: 5.518 min Scan# 604

Delta R.T. 0.012 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 1127

Ion Ratio Lower Upper

59 100

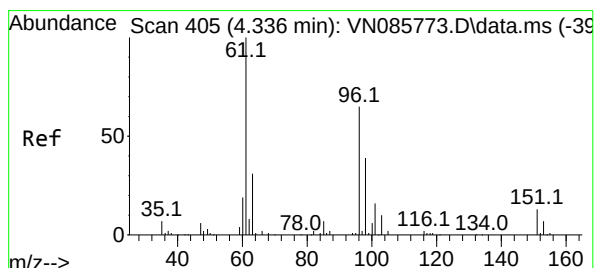
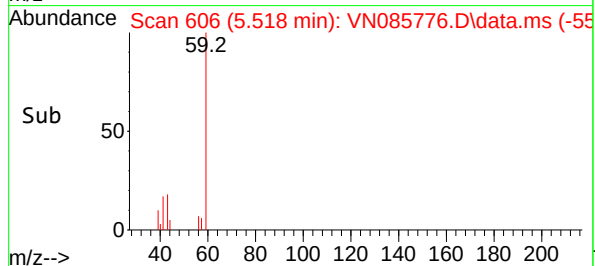
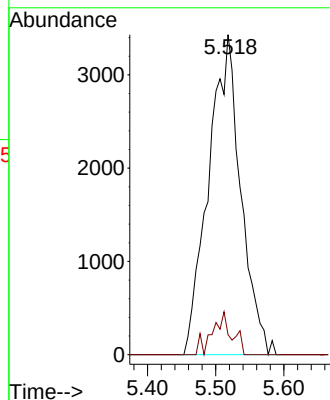
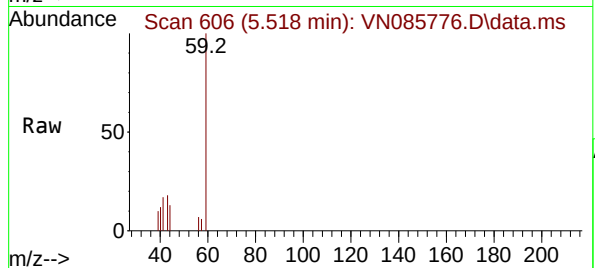
57 8.0 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#12

1,1-Dichloroethene

Concen: 5.209 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

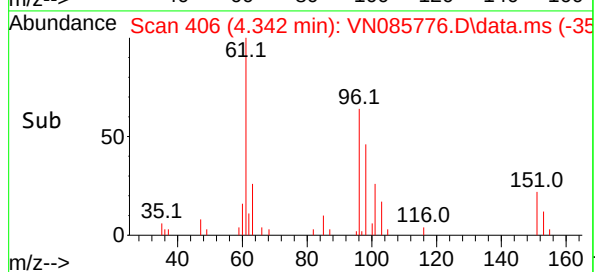
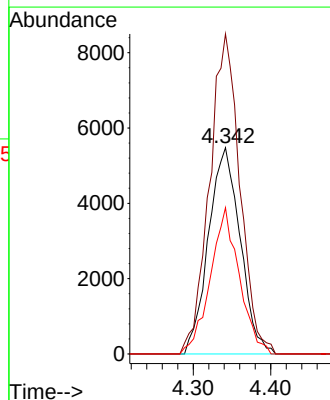
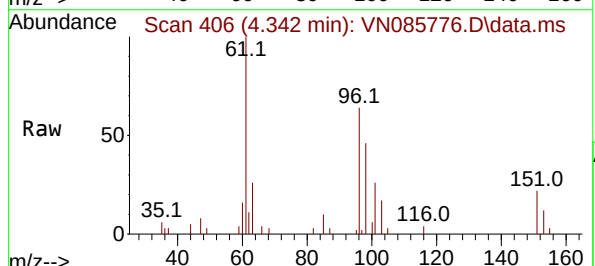
Tgt Ion: 96 Resp: 15564

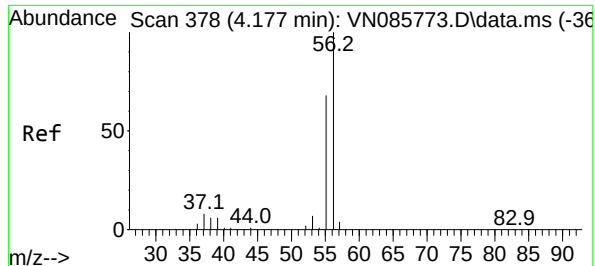
Ion Ratio Lower Upper

96 100

61 155.1 123.3 184.9

98 70.9 48.6 72.8





#13

Acrolein

Concen: 26.652 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1717

Ion Ratio Lower Upper

56 100

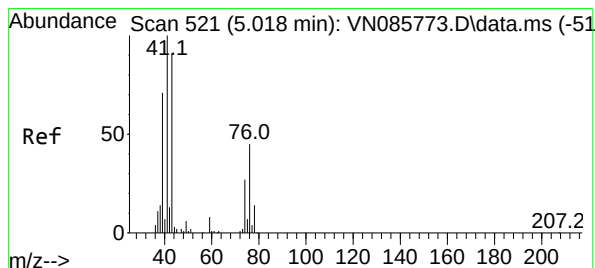
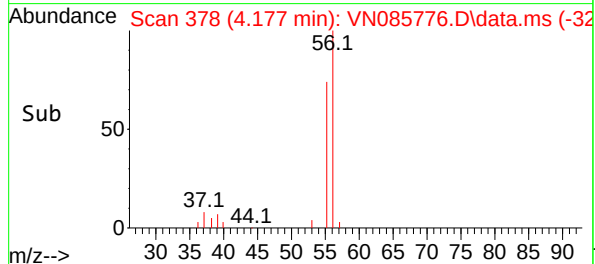
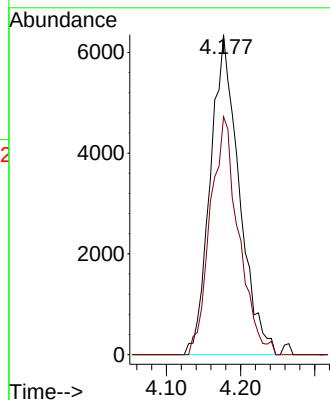
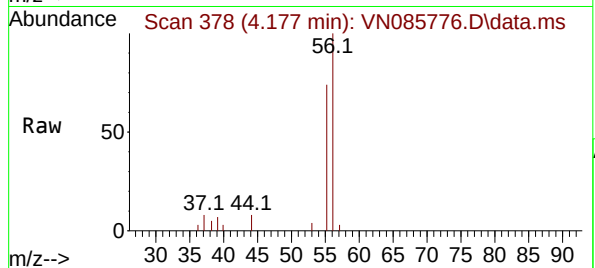
55 73.1 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 5.027 ug/l

RT: 5.012 min Scan# 520

Delta R.T. -0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

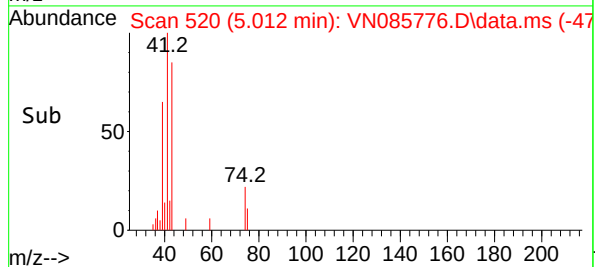
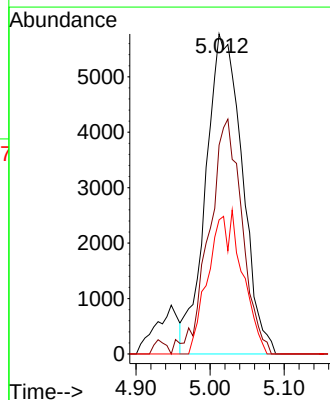
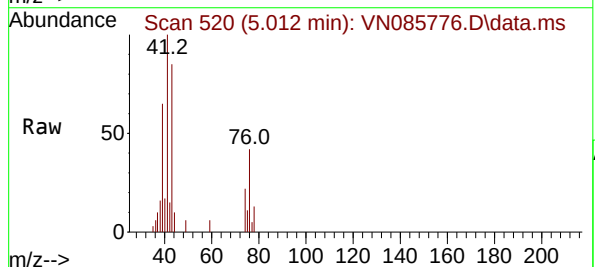
Tgt Ion: 41 Resp: 19720

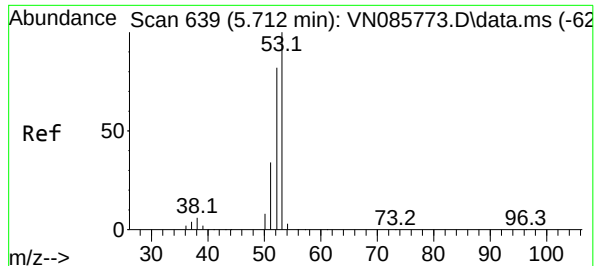
Ion Ratio Lower Upper

41 100

39 66.6 57.4 86.2

76 41.3 36.2 54.2





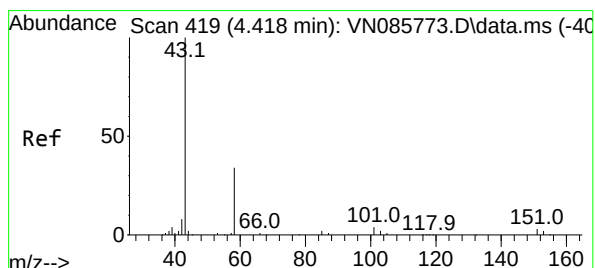
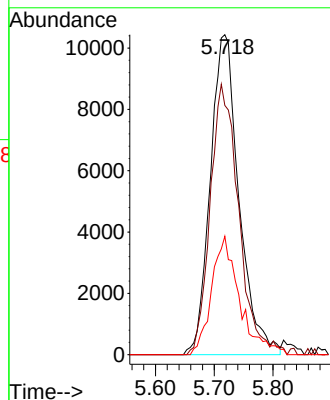
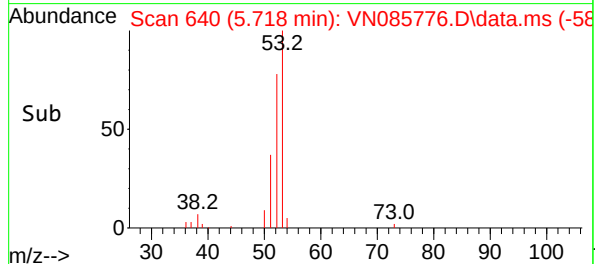
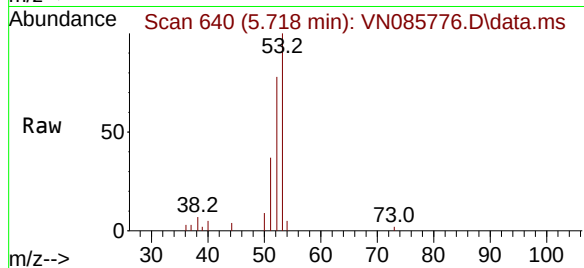
#15
Acrylonitrile
Concen: 25.067 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 35404
Ion Ratio Lower Upper
53 100
52 83.9 65.8 98.6
51 36.2 28.6 42.8

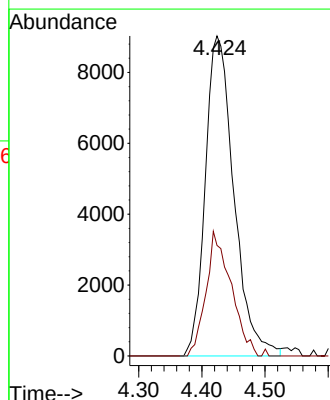
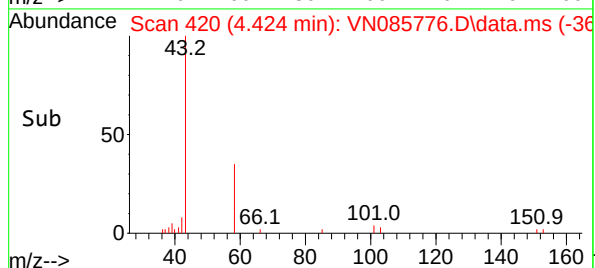
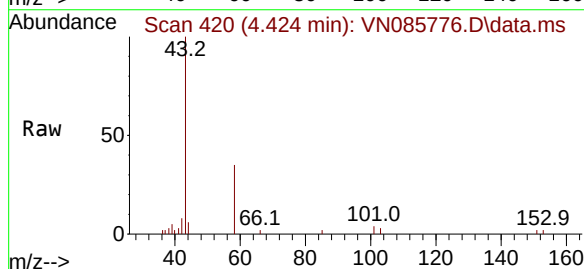
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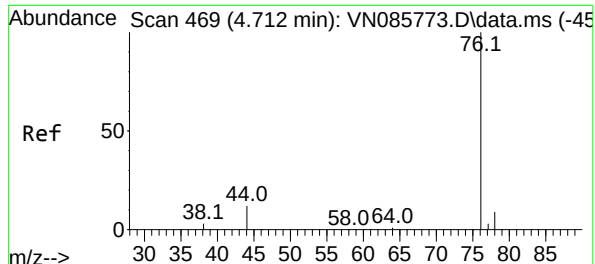
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#16
Acetone
Concen: 25.411 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 43 Resp: 28402
Ion Ratio Lower Upper
43 100
58 34.5 27.5 41.3





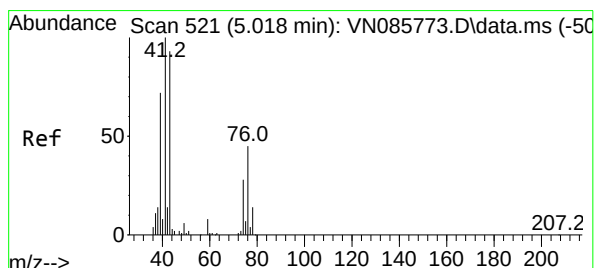
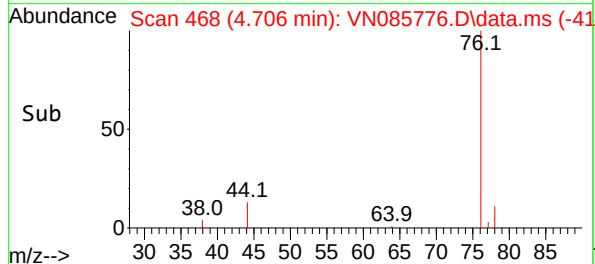
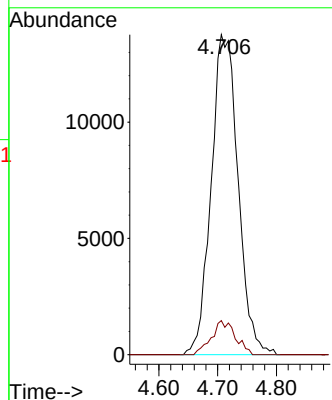
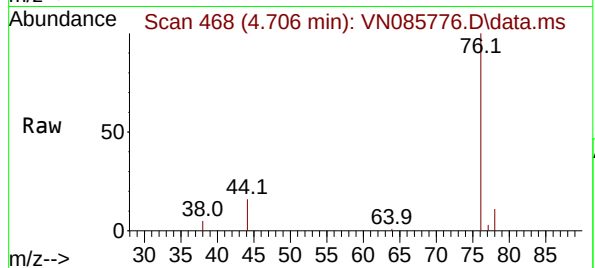
#17
Carbon Disulfide
Concen: 4.936 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 4371
Ion Ratio Lower Upper
76 100
78 10.7 7.4 11.0

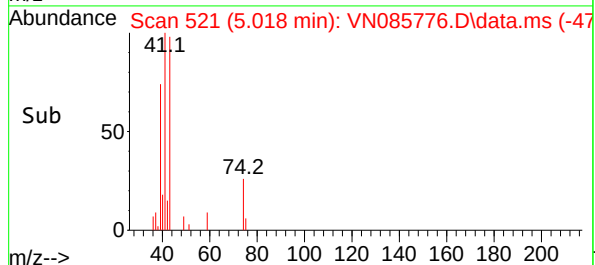
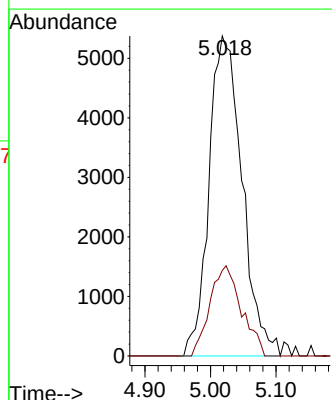
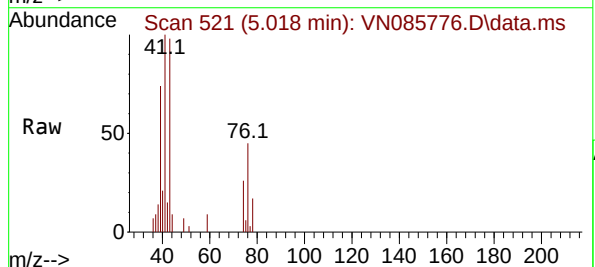
Manual Integrations
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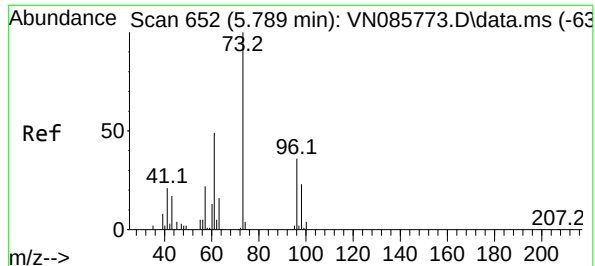
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#18
Methyl Acetate
Concen: 4.888 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 43 Resp: 18793
Ion Ratio Lower Upper
43 100
74 26.9 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 4.786 ug/l

RT: 5.783 min Scan# 652

Delta R.T. -0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 4249

Ion Ratio Lower Upper

73 100

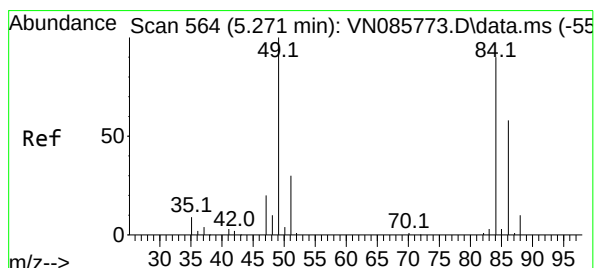
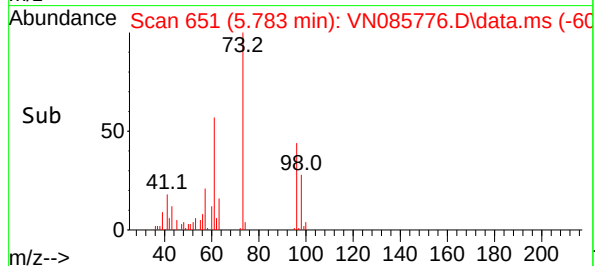
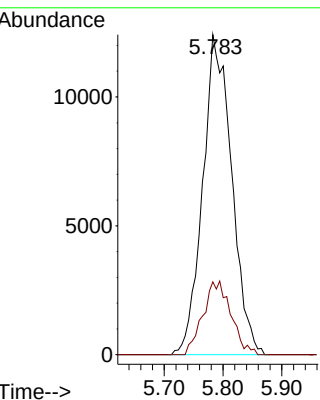
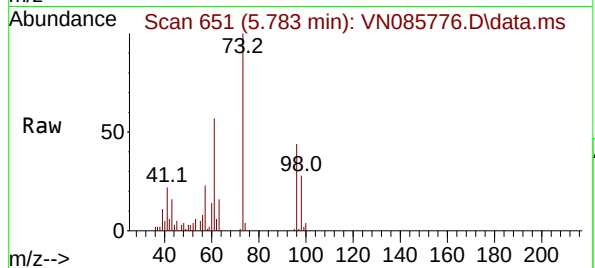
57 22.7 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#20

Methylene Chloride

Concen: 5.046 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion: 84 Resp: 18139

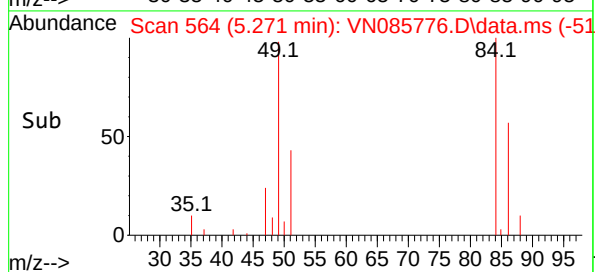
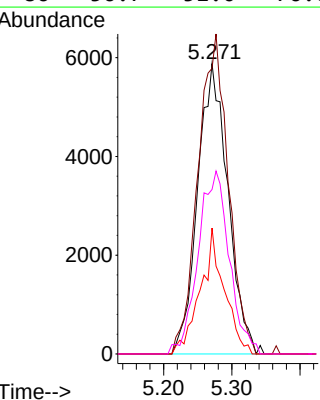
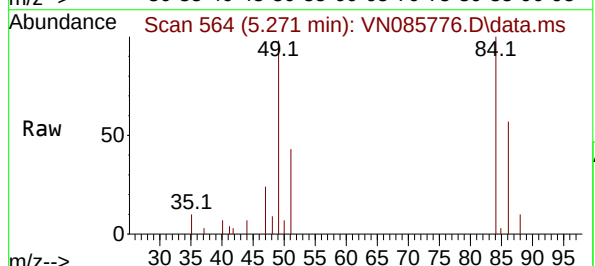
Ion Ratio Lower Upper

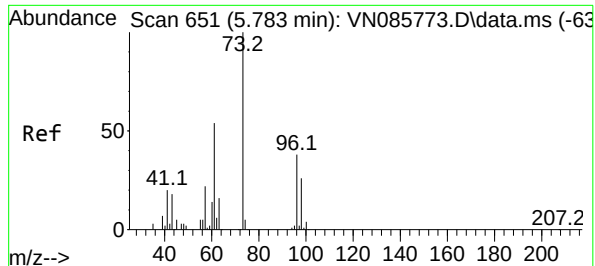
84 100

49 98.4 88.4 132.6

51 43.4 26.6 40.0#

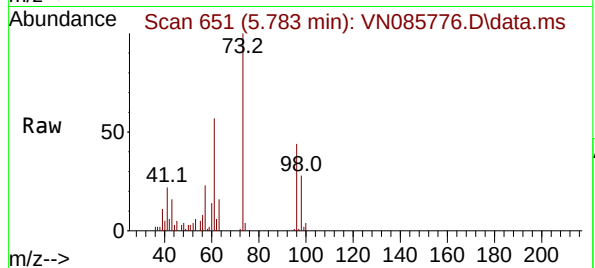
86 56.7 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 5.076 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

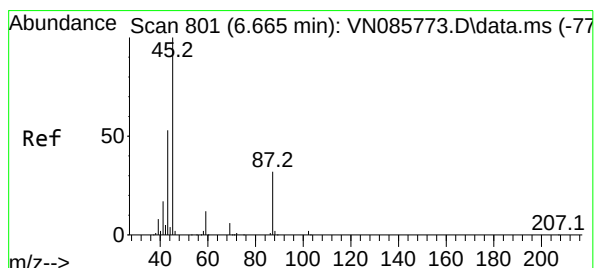
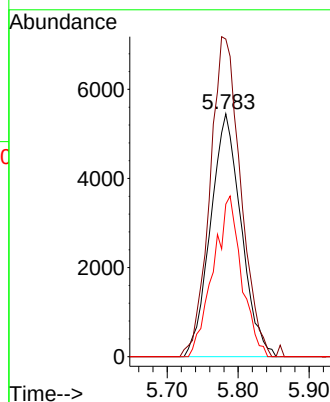
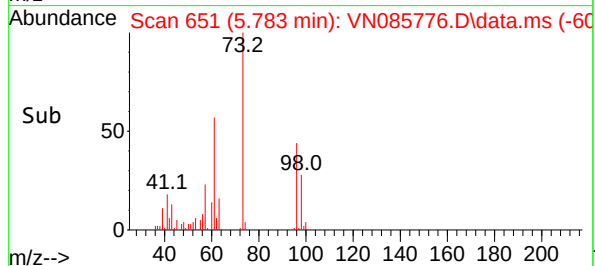
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 96 Resp: 16330
Ion Ratio Lower Upper
96 100
61 130.8 112.6 168.8
98 62.8 53.3 79.9

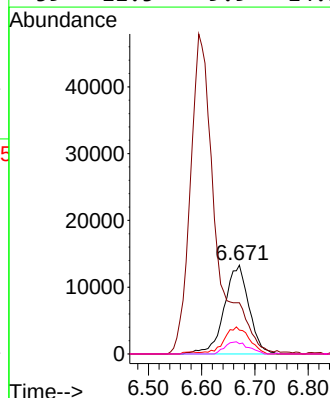
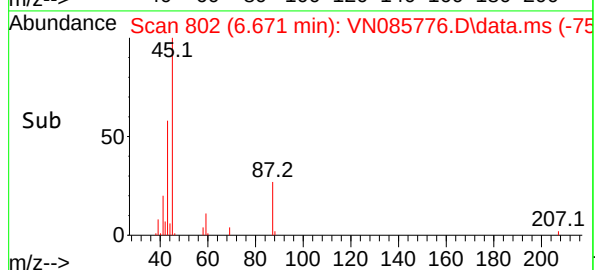
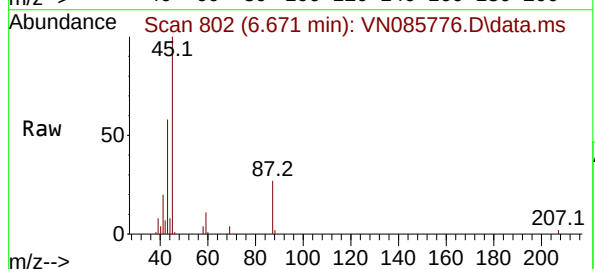
Manual Integrations
APPROVED

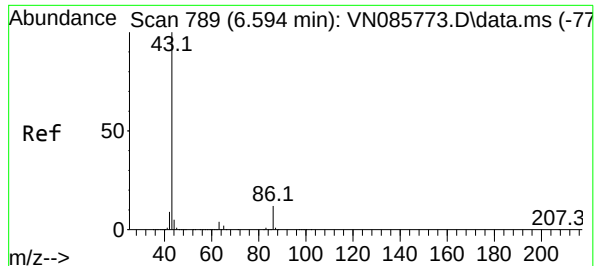
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 4.817 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 45 Resp: 42703
Ion Ratio Lower Upper
45 100
43 55.5 42.6 64.0
87 26.8 25.8 38.8
59 11.5 9.9 14.9





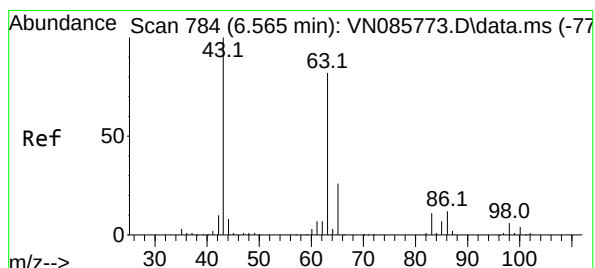
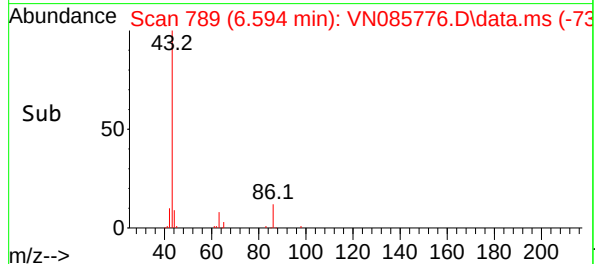
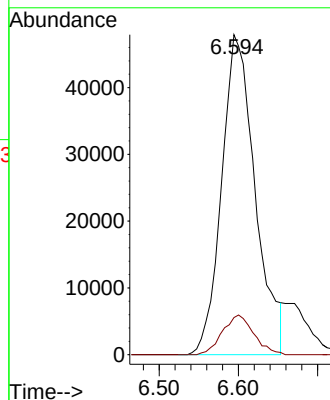
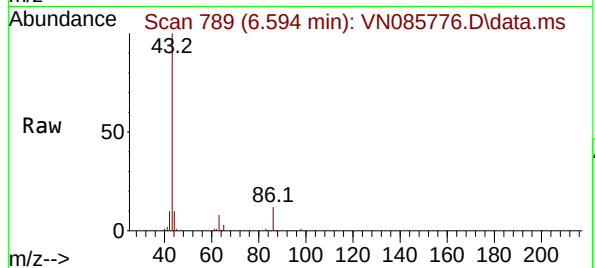
#23
Vinyl Acetate
Concen: 23.273 ug/l m
RT: 6.594 min Scan# 789
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 14082
Ion Ratio Lower Upper
43 100
86 11.6 9.8 14.8

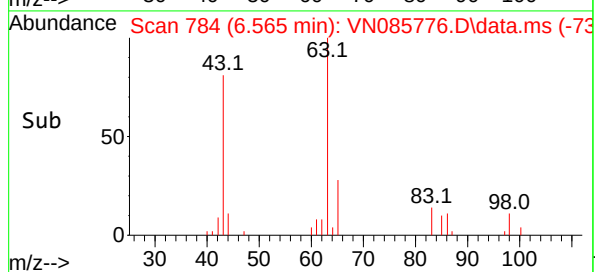
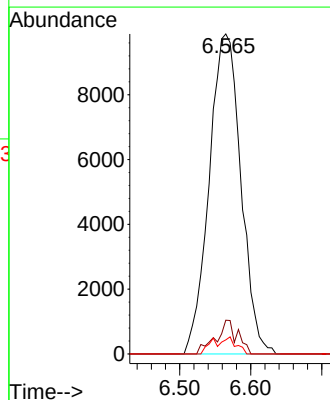
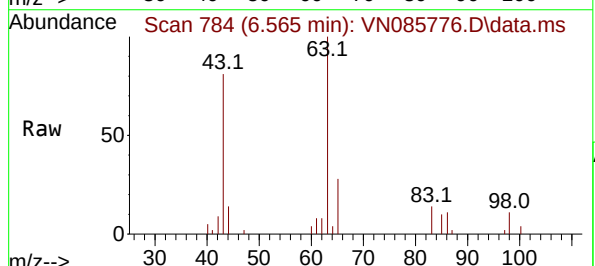
Manual Integrations
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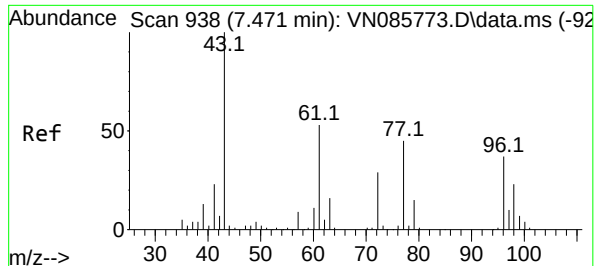
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#24
1,1-Dichloroethane
Concen: 5.088 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 63 Resp: 30658
Ion Ratio Lower Upper
63 100
98 10.6 3.5 10.4#
100 4.4 2.4 7.2





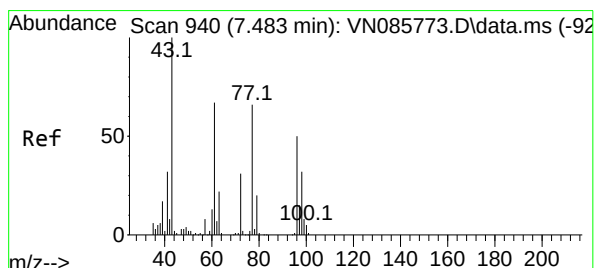
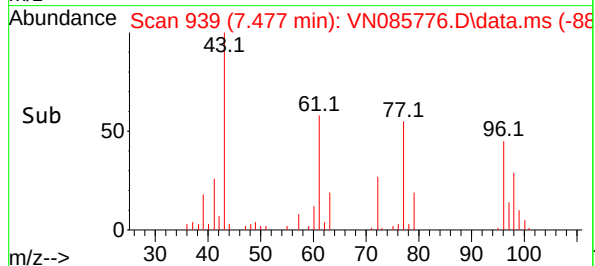
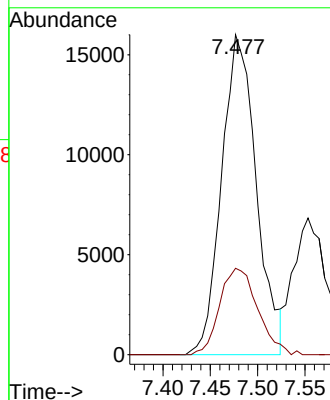
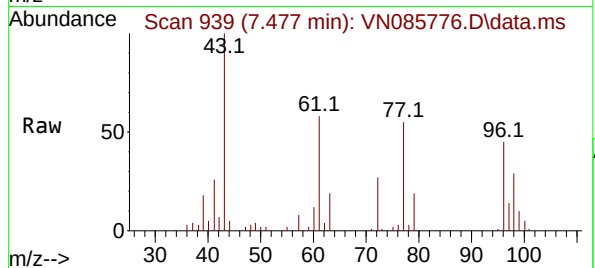
#25
2-Butanone
Concen: 24.809 ug/l
RT: 7.477 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 4079
Ion Ratio Lower Upper
43 100
72 27.0 23.6 35.4

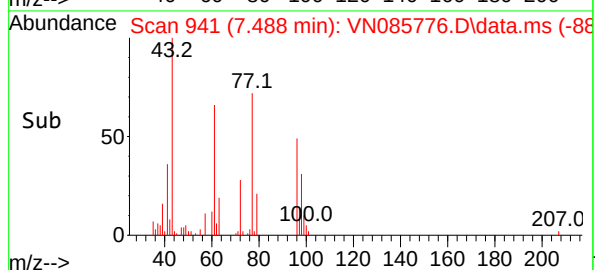
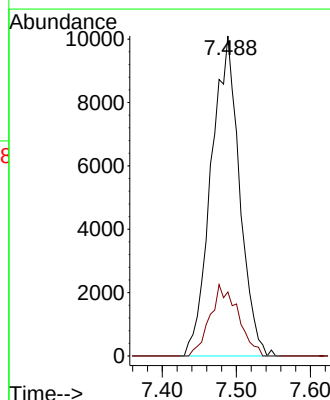
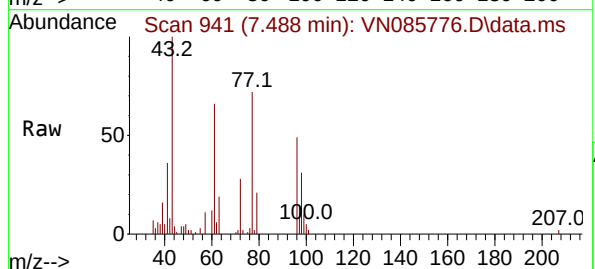
Manual Integrations
APPROVED

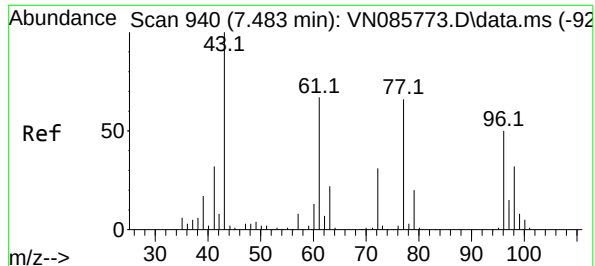
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#26
2,2-Dichloropropane
Concen: 5.018 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 77 Resp: 26889
Ion Ratio Lower Upper
77 100
97 22.0 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 5.006 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion: 96 Resp: 1867

Ion Ratio Lower Upper

96 100

61 136.1 0.0 280.6

98 64.4 0.0 128.6

Instrument :

MSVOA_N

ClientSampleId :

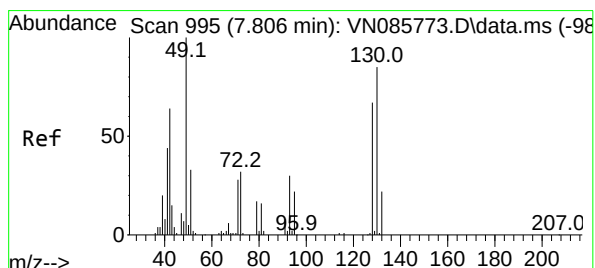
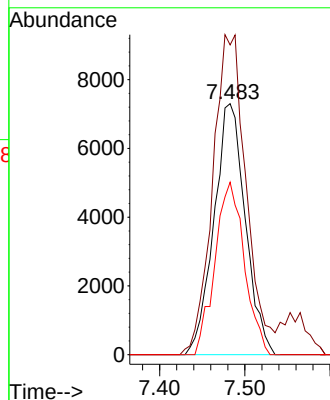
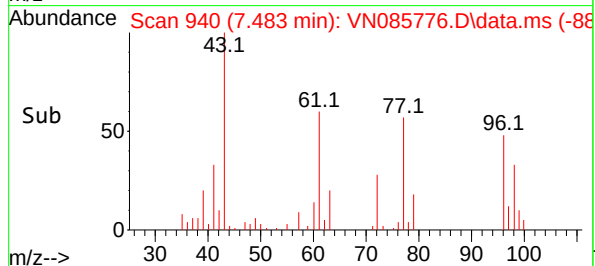
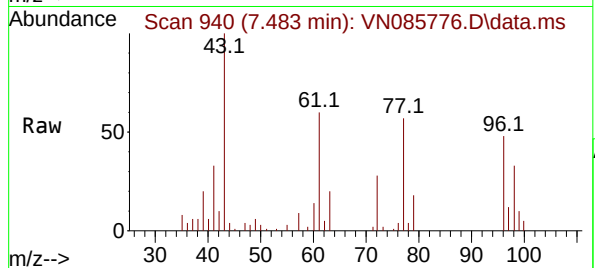
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 6.276 ug/l

RT: 7.806 min Scan# 995

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

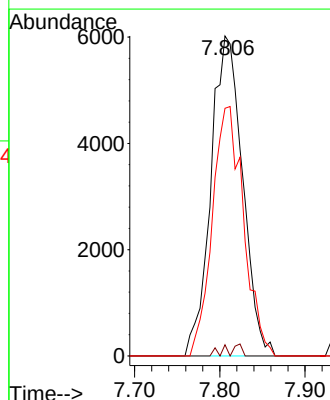
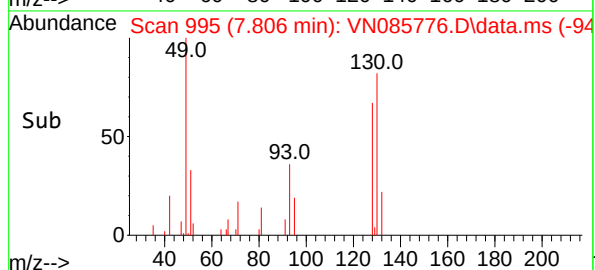
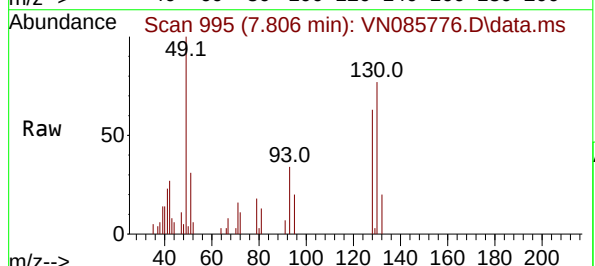
Tgt Ion: 49 Resp: 15543

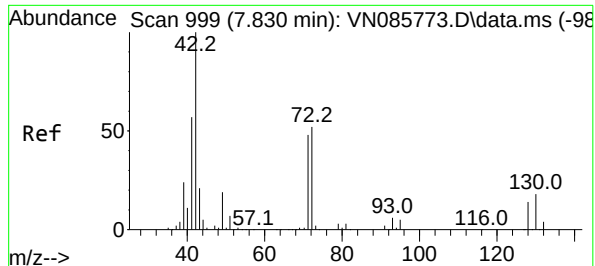
Ion Ratio Lower Upper

49 100

129 1.4 0.0 3.8

130 76.8 68.0 102.0





#29

Tetrahydrofuran

Concen: 23.457 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

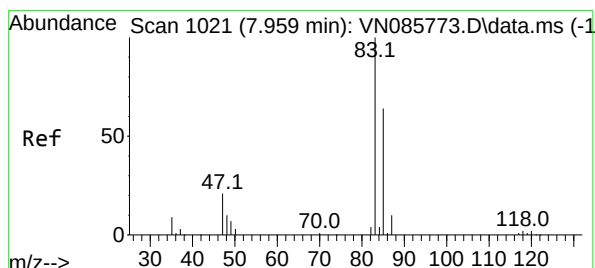
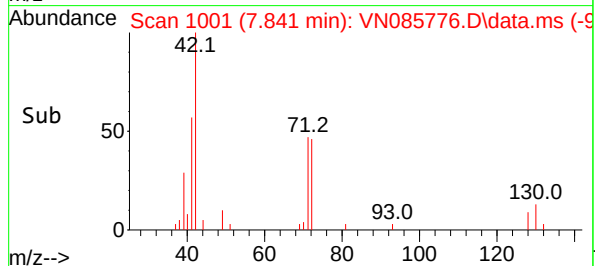
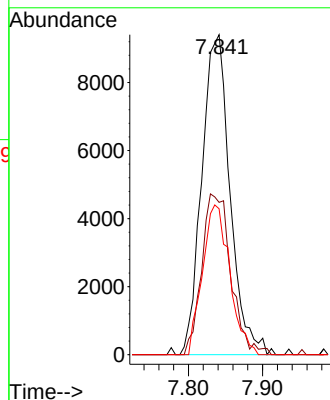
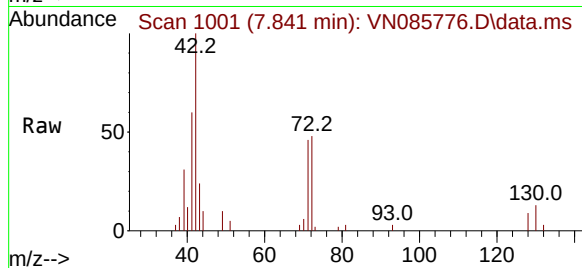
VSTDIC005

Tgt Ion:	42	Resp:	2490
Ion	Ratio	Lower	Upper
42	100		
72	51.7	40.0	60.0
71	45.2	37.0	55.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 5.034 ug/l

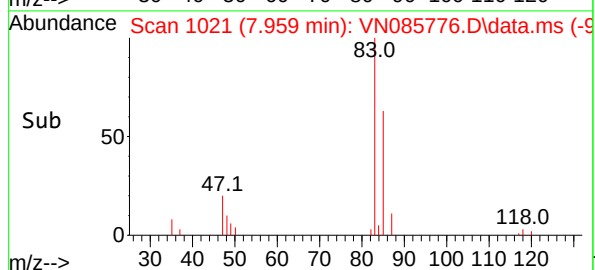
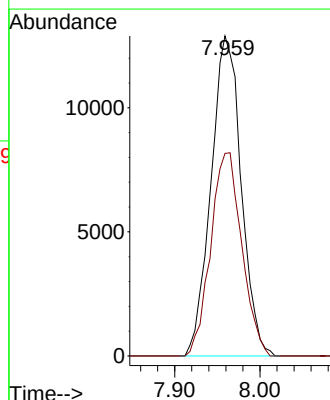
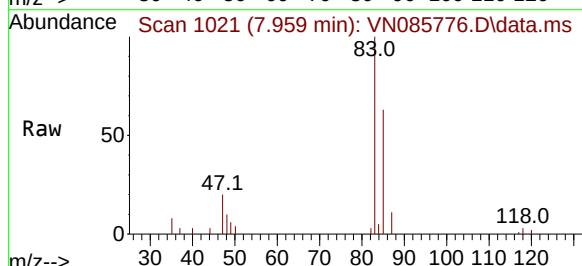
RT: 7.959 min Scan# 1021

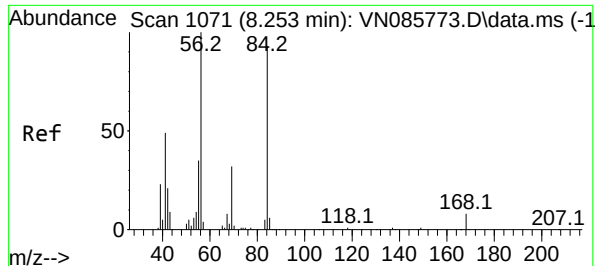
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:	83	Resp:	31702
Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.9	76.3





#31

Cyclohexane

Concen: 5.705 ug/l

RT: 8.247 min Scan# 1070

Delta R.T. -0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

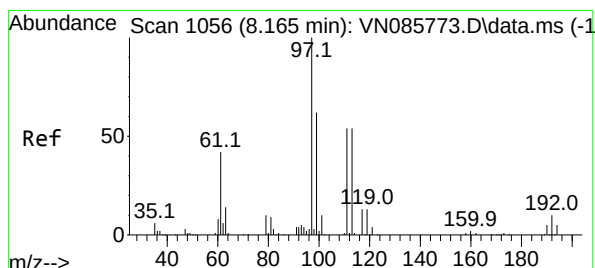
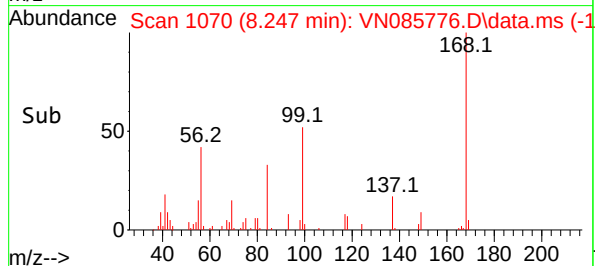
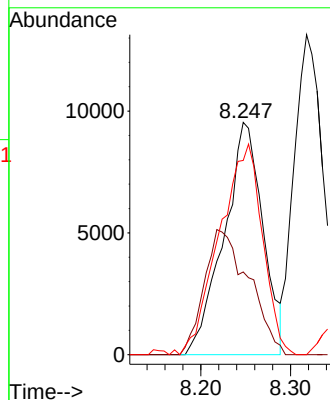
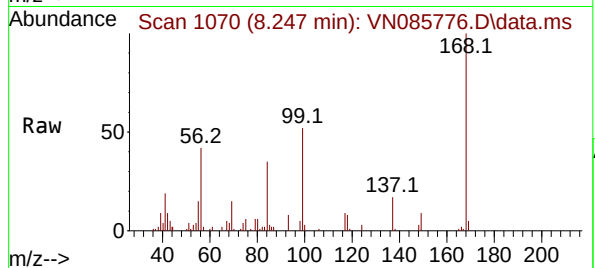
VSTDIC005

Tgt Ion:	56	Resp:	28784
Ion	Ratio	Lower	Upper
56	100		
69	35.6	25.8	38.6
84	83.6	74.5	111.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#32

1,1,1-Trichloroethane

Concen: 5.145 ug/l

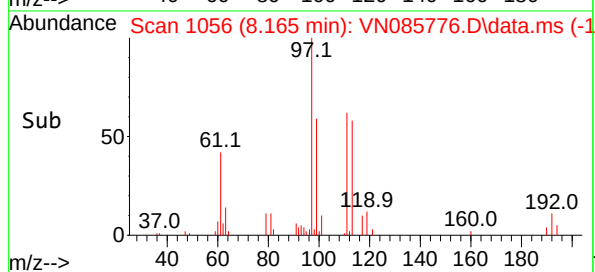
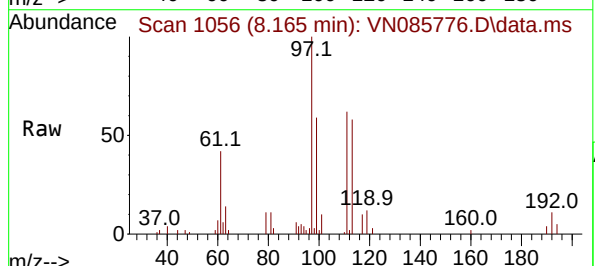
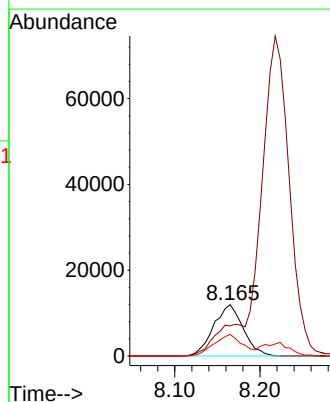
RT: 8.165 min Scan# 1056

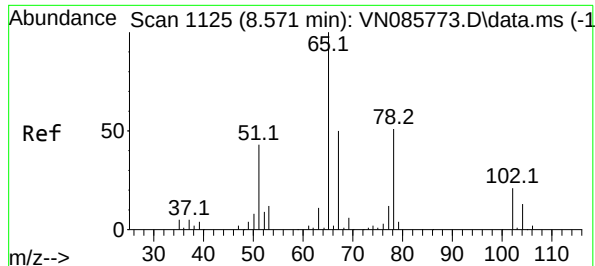
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:	97	Resp:	28815
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.4	75.6
61	40.7	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 5.918 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 20900

Ion Ratio Lower Upper

65 100

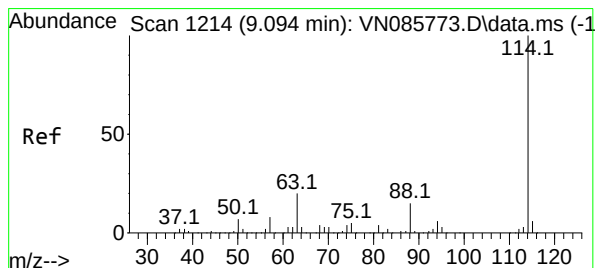
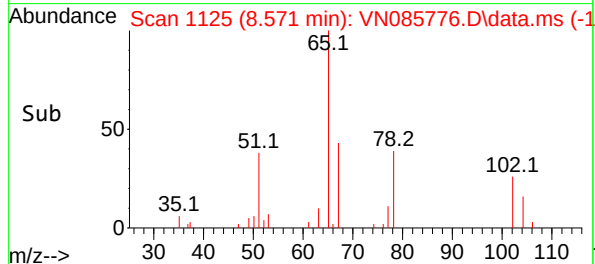
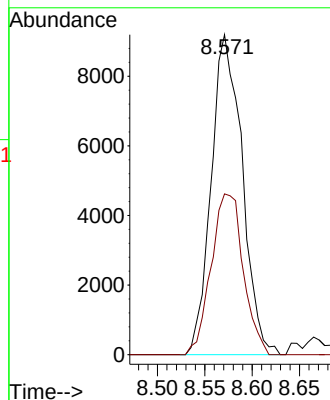
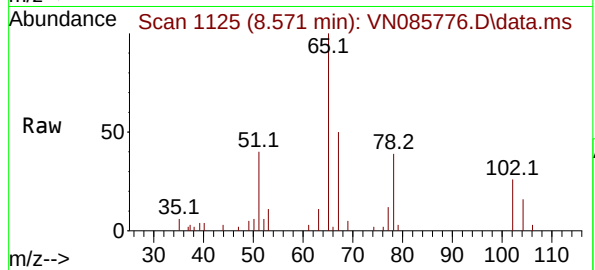
67 52.2 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

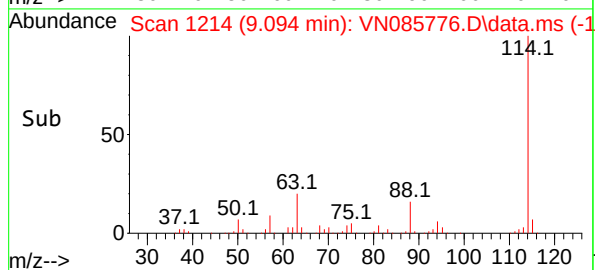
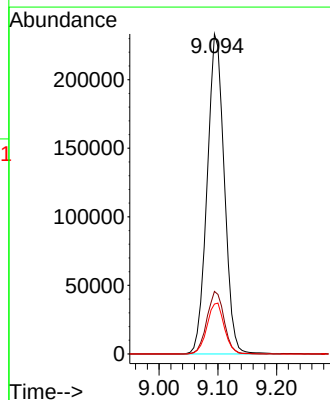
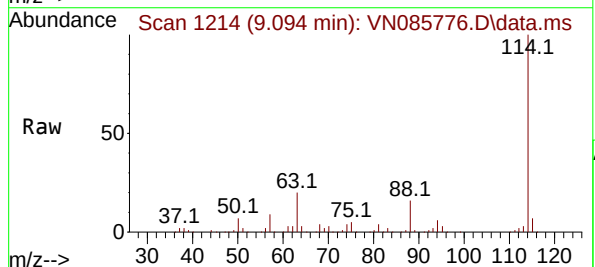
Tgt Ion:114 Resp: 471970

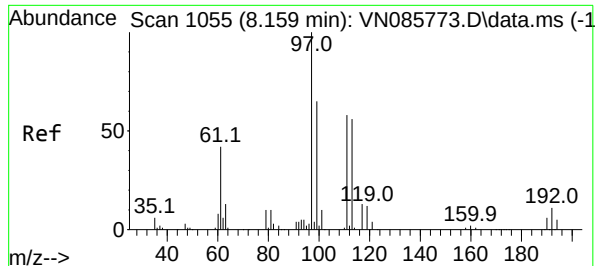
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.2

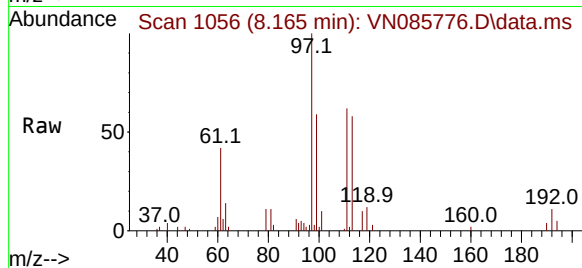
88 15.6 0.0 30.0





#35
Dibromofluoromethane
Concen: 5.461 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

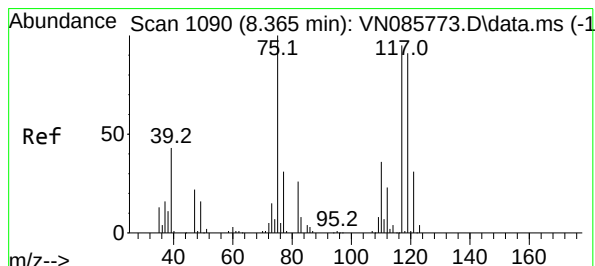
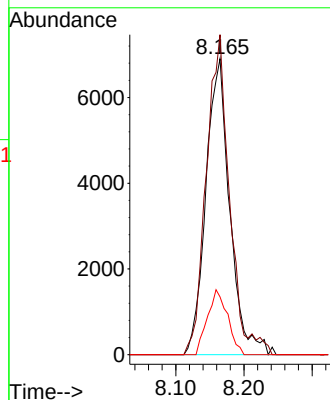
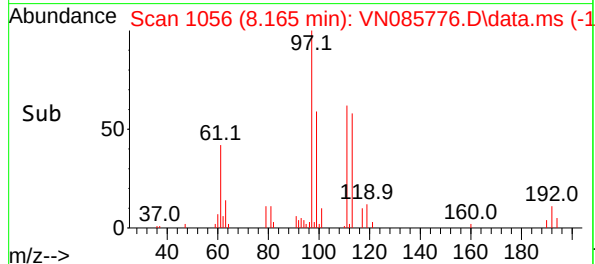
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 113 Resp: 1686
Ion Ratio Lower Upper
113 100
111 105.6 82.2 123.4
192 18.5 14.7 22.1

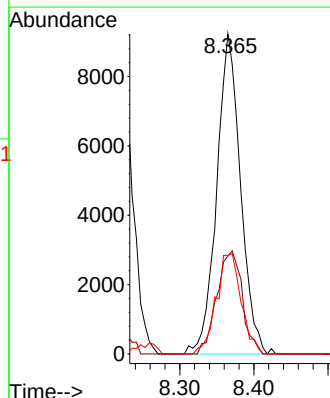
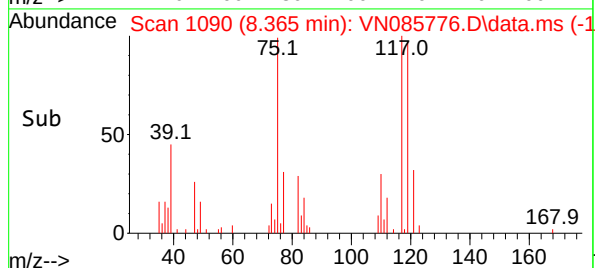
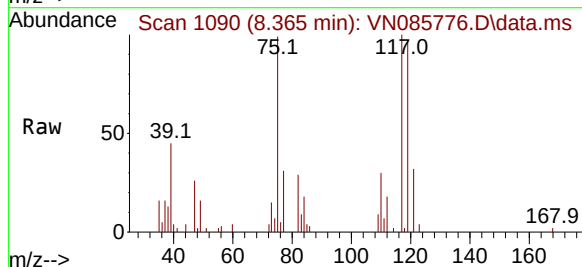
Manual Integrations
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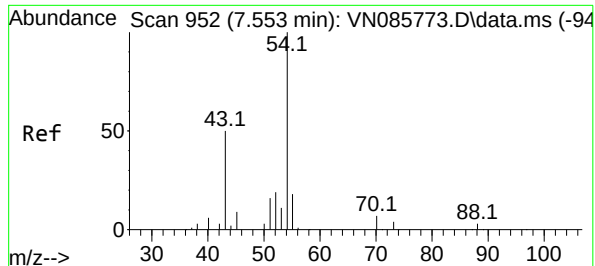
Reviewed By : John Carlone 02/19/2025
Supervised By : Mahesh Dadoda 02/19/2025



#36
1,1-Dichloropropene
Concen: 4.711 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 75 Resp: 20593
Ion Ratio Lower Upper
75 100
110 34.2 17.3 52.0
77 33.0 24.6 37.0





#37

Ethyl Acetate

Concen: 4.940 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 1776

Ion Ratio Lower Upper

43 100

61 14.0 12.2 18.2

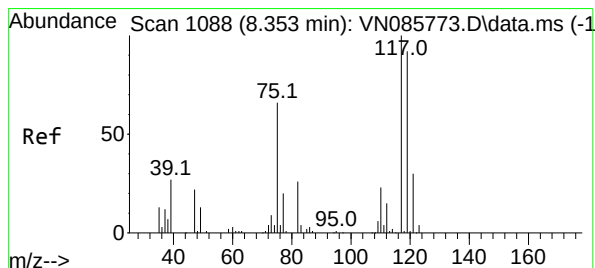
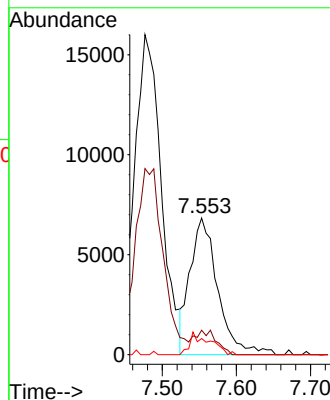
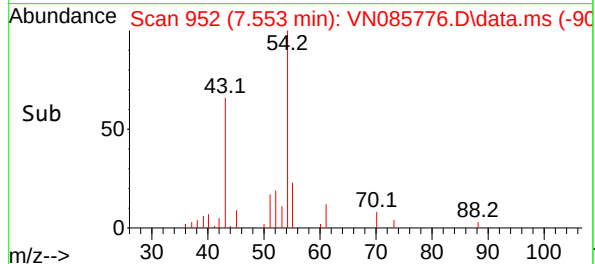
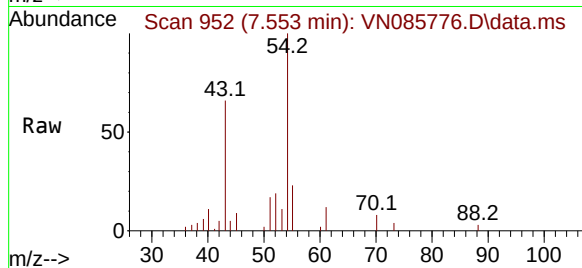
70 0.0 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#38

Carbon Tetrachloride

Concen: 4.955 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

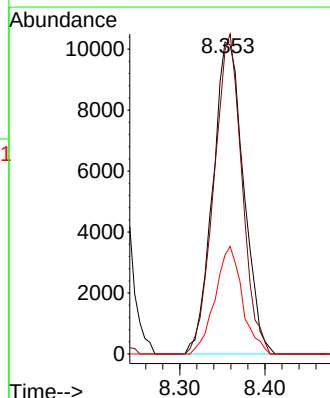
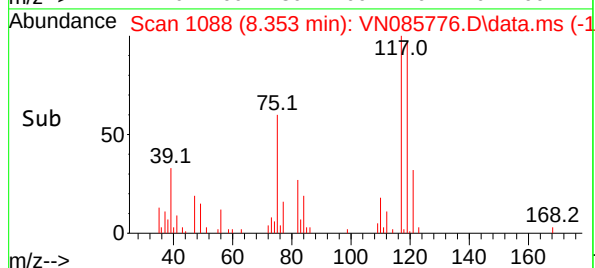
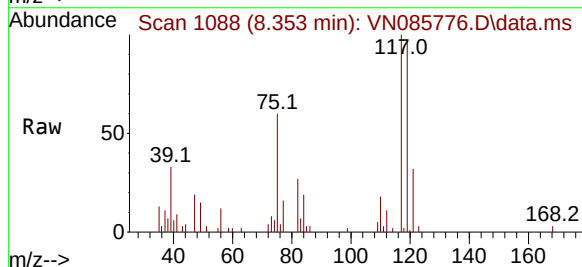
Tgt Ion:117 Resp: 25734

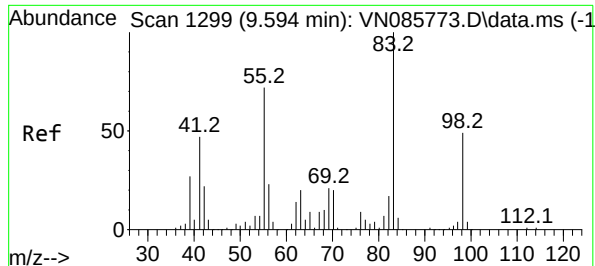
Ion Ratio Lower Upper

117 100

119 97.3 73.8 110.6

121 31.7 24.3 36.5





#39

Methylcyclohexane

Concen: 4.451 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 1911

Ion Ratio Lower Upper

83 100

55 73.9 57.5 86.3

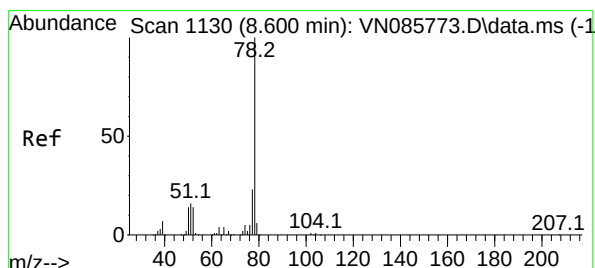
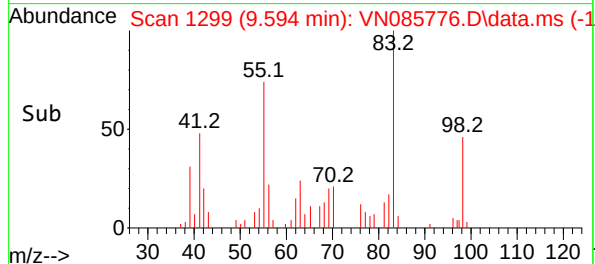
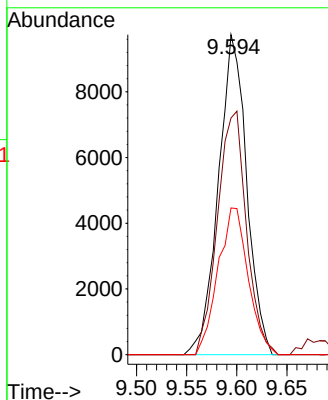
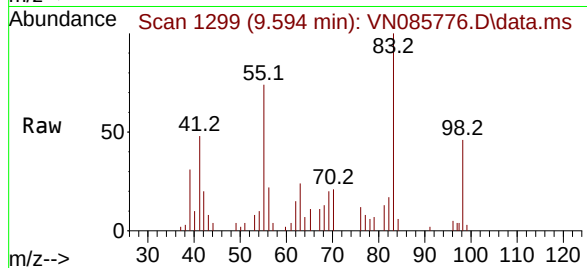
98 45.8 39.2 58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#40

Benzene

Concen: 4.786 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN085776.D

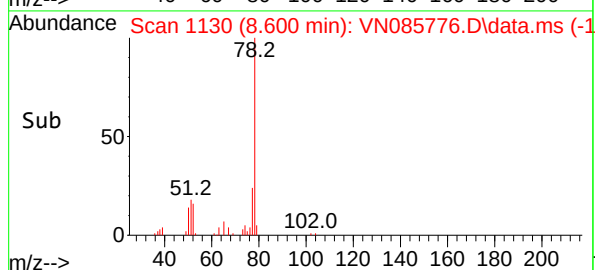
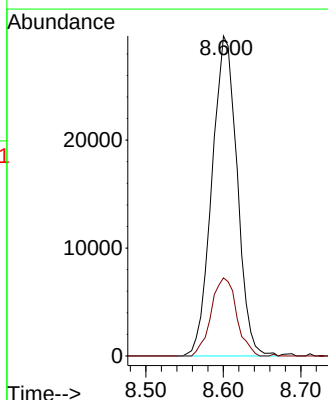
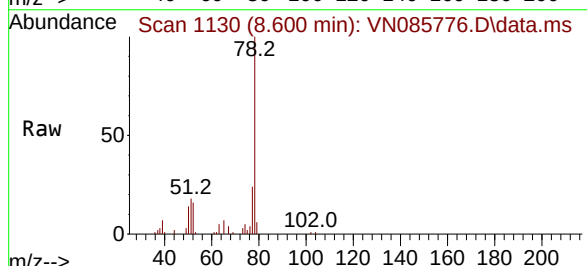
Acq: 18 Feb 2025 12:43

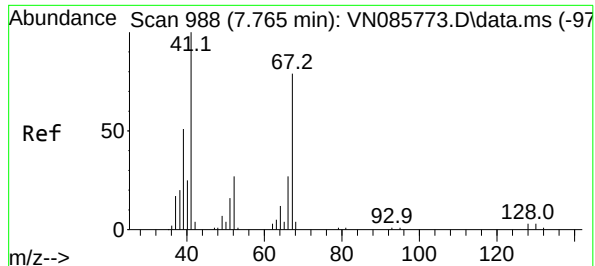
Tgt Ion: 78 Resp: 67051

Ion Ratio Lower Upper

78 100

77 24.4 18.3 27.5





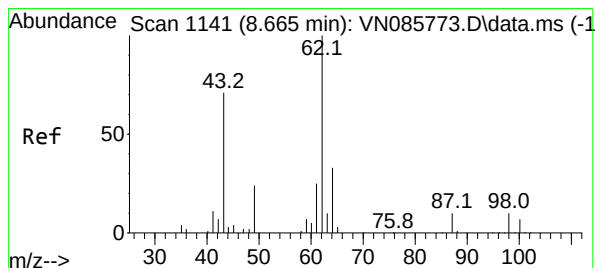
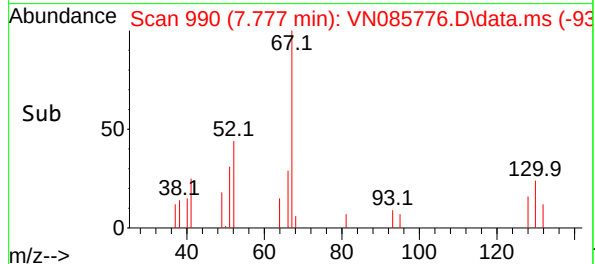
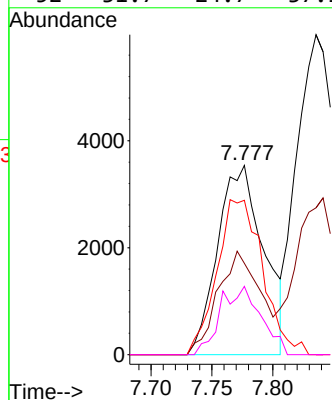
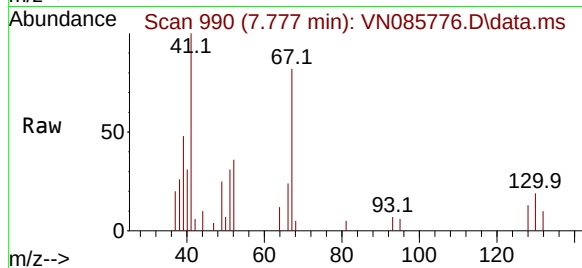
#41
Methacrylonitrile
Concen: 4.835 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.012 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 9290
Ion Ratio Lower Upper
41 100
39 49.9 42.0 63.0
67 81.8 64.2 96.4
52 31.7 24.7 37.1

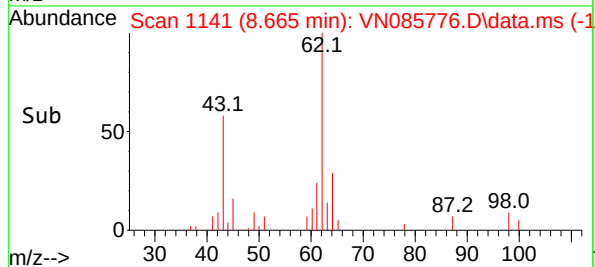
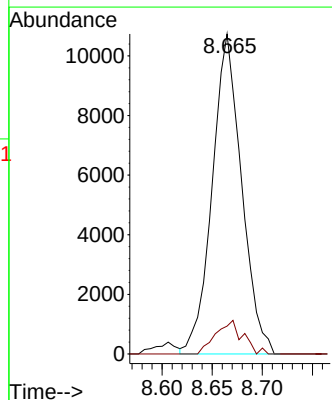
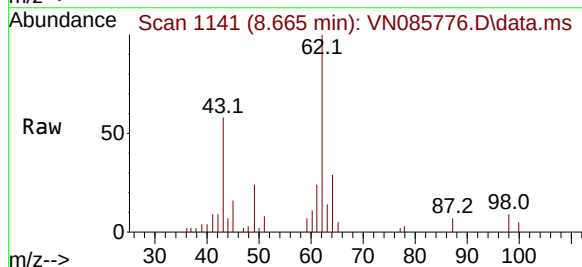
Manual Integrations
APPROVED

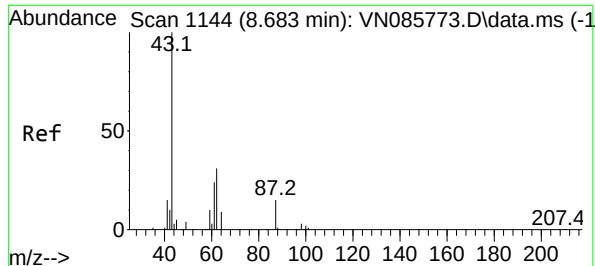
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#42
1,2-Dichloroethane
Concen: 4.796 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 62 Resp: 21886
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.6





#43

Isopropyl Acetate

Concen: 5.059 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN085776.D

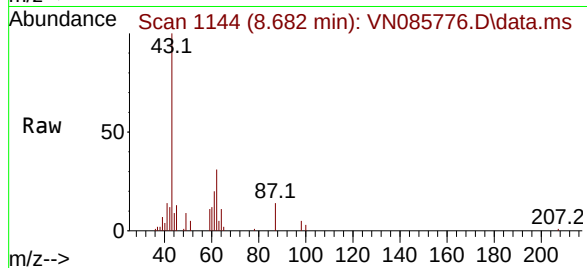
Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

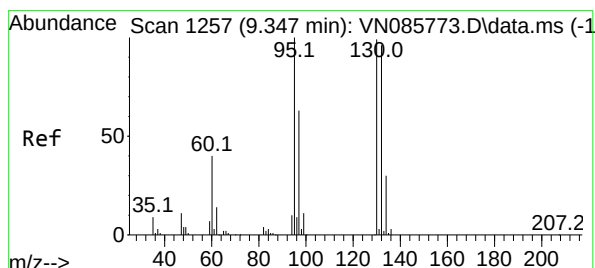
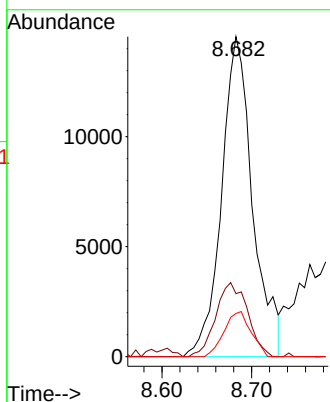
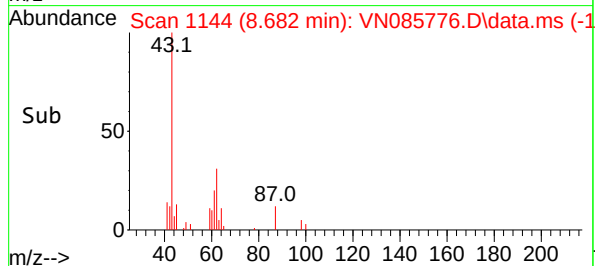


Tgt Ion:	43	Resp:	3503
Ion	Ratio	Lower	Upper
43	100		
61	23.7	22.6	34.0
87	12.2	11.8	17.8

Manual Integrations
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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#44

Trichloroethene

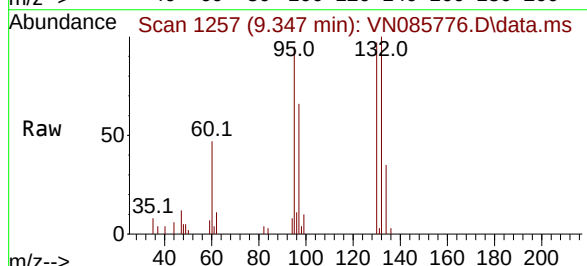
Concen: 4.801 ug/l

RT: 9.347 min Scan# 1257

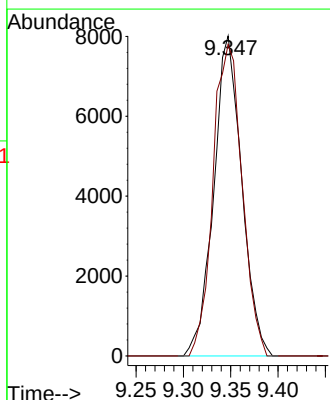
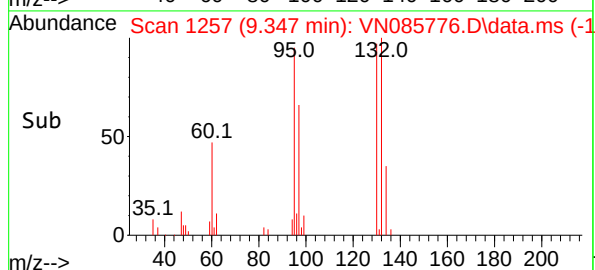
Delta R.T. -0.000 min

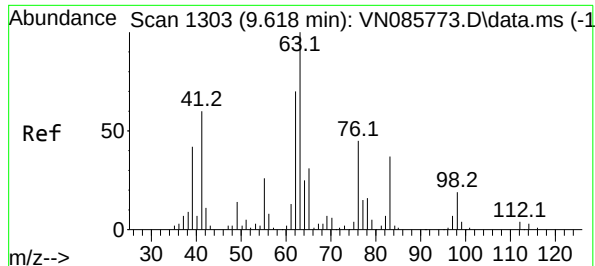
Lab File: VN085776.D

Acq: 18 Feb 2025 12:43



Tgt Ion:	130	Resp:	16513
Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	202.6





#45

1,2-Dichloropropane

Concen: 4.799 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 16228

Ion Ratio Lower Upper

63 100

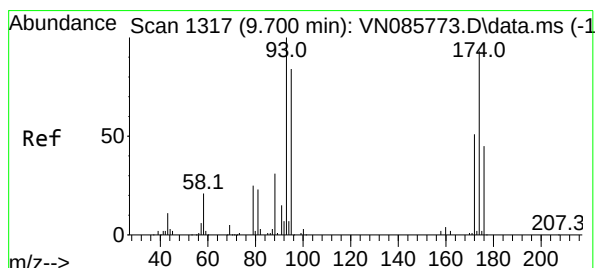
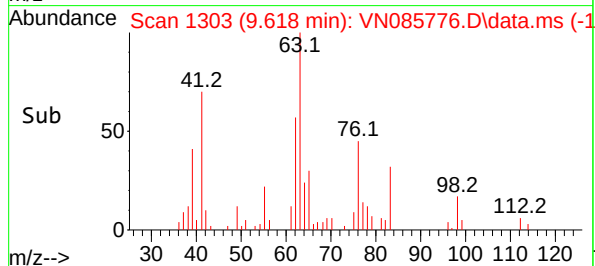
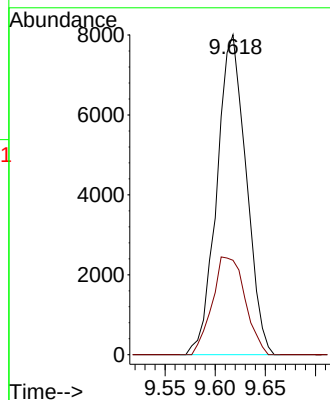
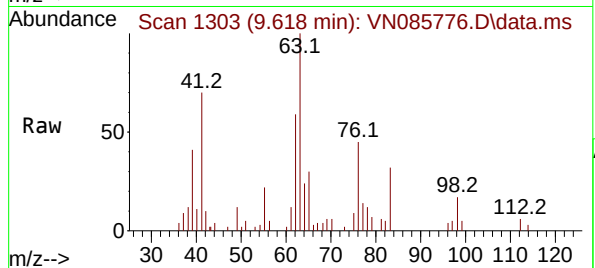
65 29.5 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#46

Dibromomethane

Concen: 4.840 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

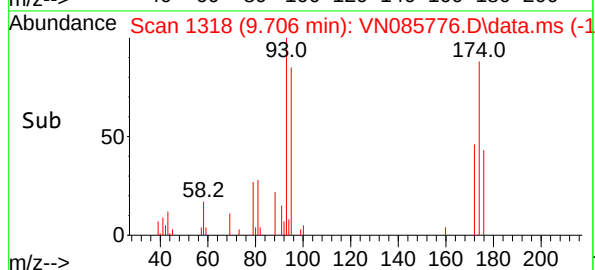
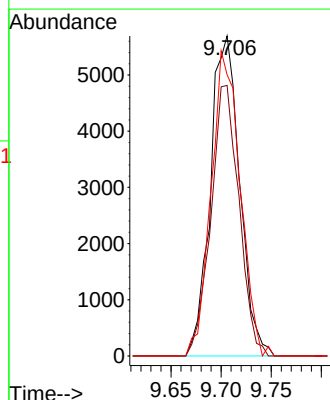
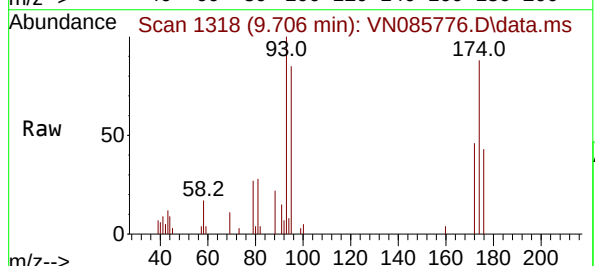
Tgt Ion: 93 Resp: 11544

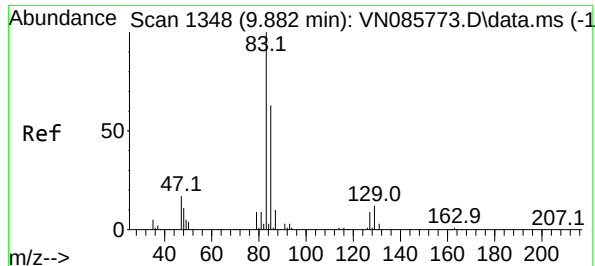
Ion Ratio Lower Upper

93 100

95 81.1 66.7 100.1

174 94.4 77.2 115.8





#47

Bromodichloromethane

Concen: 4.929 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

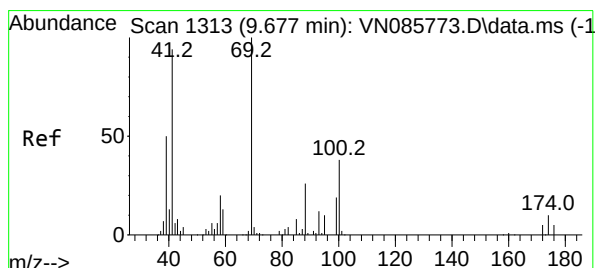
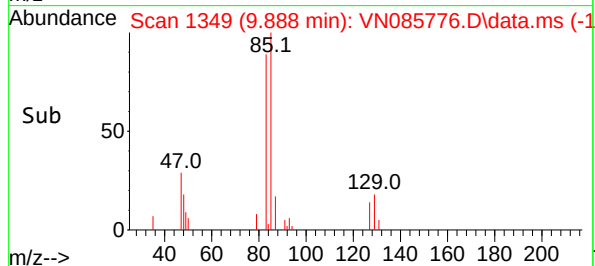
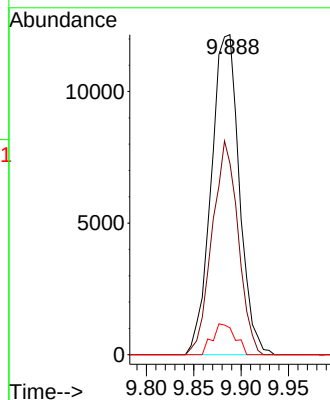
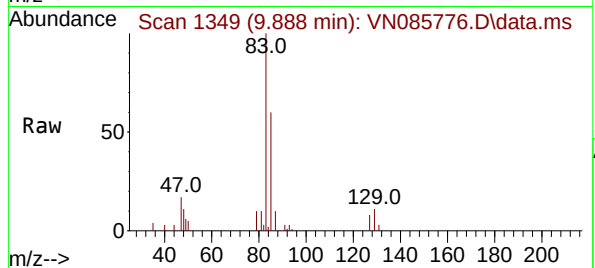
VSTDIC005

Tgt Ion:	83	Resp:	2515
Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.5	75.7
127	8.4	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#48

Methyl methacrylate

Concen: 4.567 ug/l

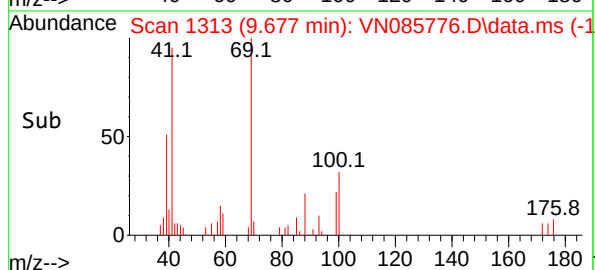
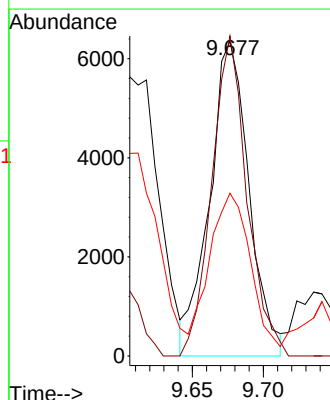
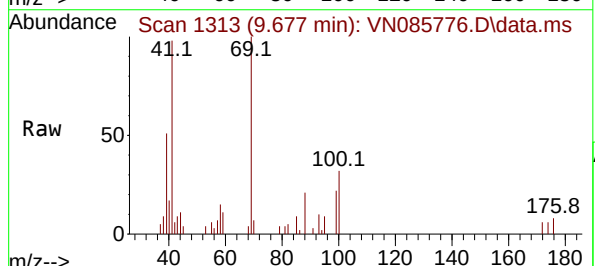
RT: 9.677 min Scan# 1313

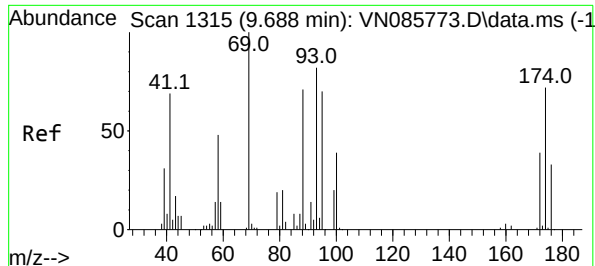
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:	41	Resp:	12200
Ion	Ratio	Lower	Upper
41	100		
69	91.5	76.0	114.0
39	55.0	42.3	63.5





#49

1,4-Dioxane

Concen: 91.913 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085776.D

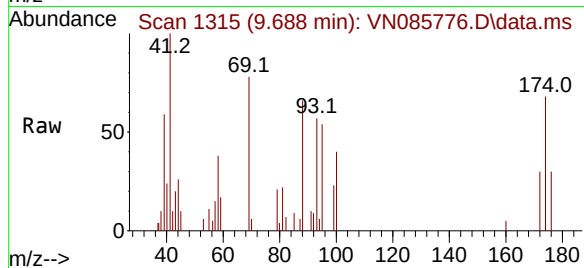
Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

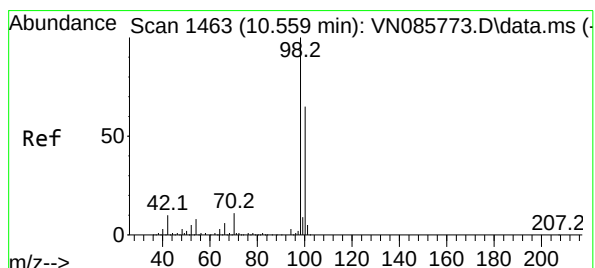
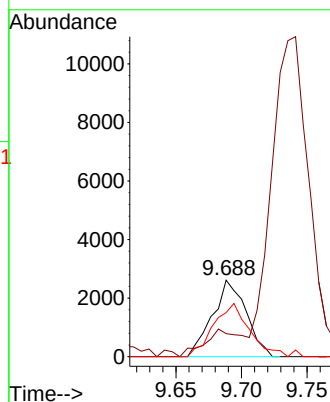
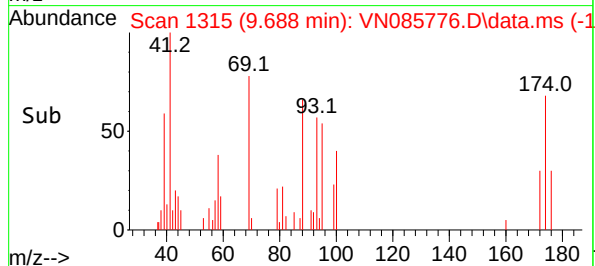


Tgt Ion:	88	Resp:	4669
Ion	Ratio	Lower	Upper
88	100		
43	36.1	18.6	27.8
58	75.8	56.7	85.1

Manual Integrations
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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#50

Toluene-d8

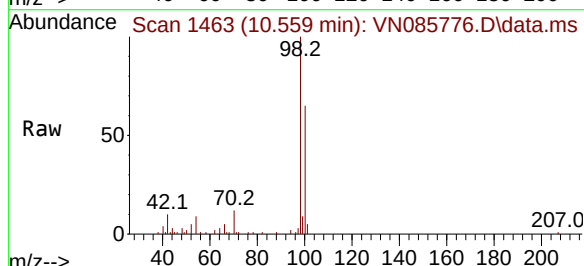
Concen: 5.089 ug/l

RT: 10.559 min Scan# 1463

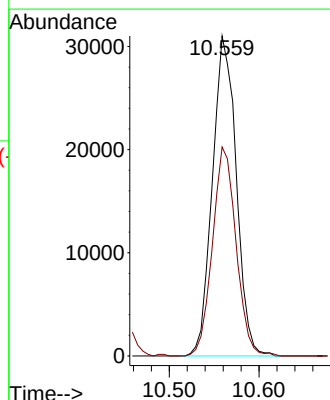
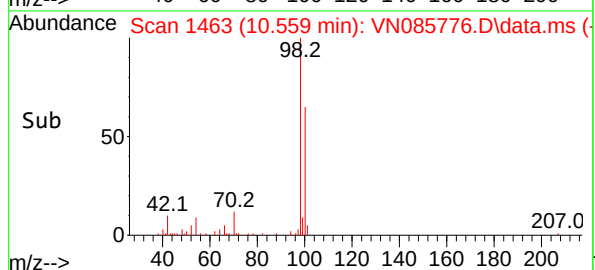
Delta R.T. -0.000 min

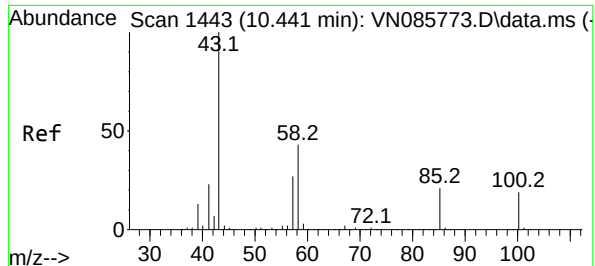
Lab File: VN085776.D

Acq: 18 Feb 2025 12:43



Tgt Ion:	98	Resp:	57180
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.1	78.1





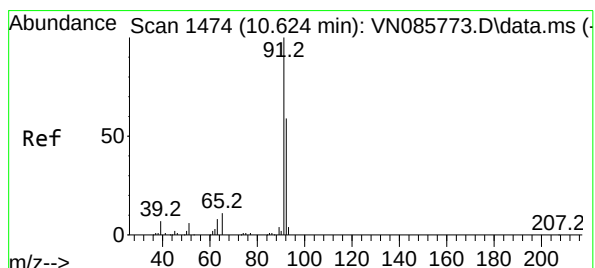
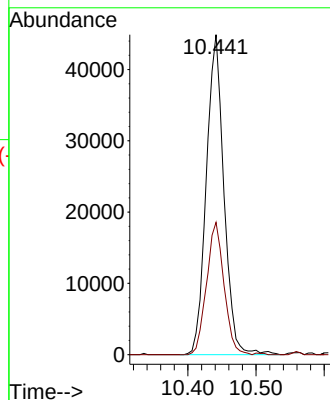
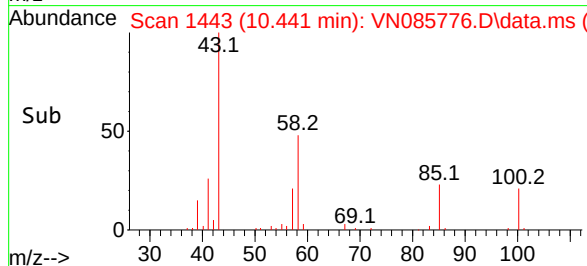
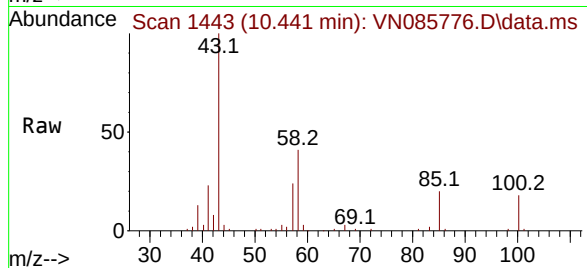
#51
4-Methyl-2-Pentanone
Concen: 23.260 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 80660
Ion Ratio Lower Upper
43 100
58 41.0 34.6 52.0

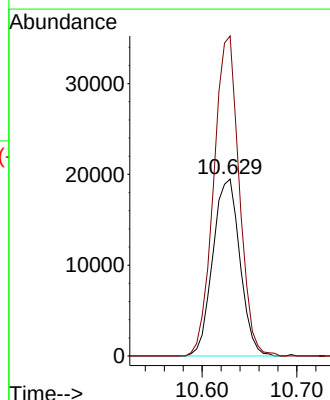
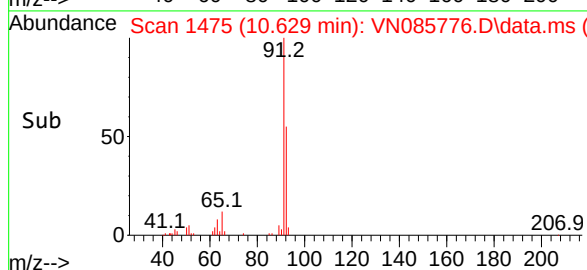
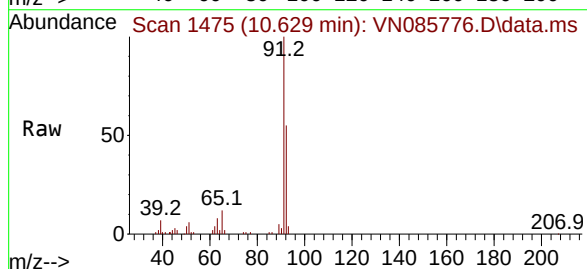
Manual Integrations
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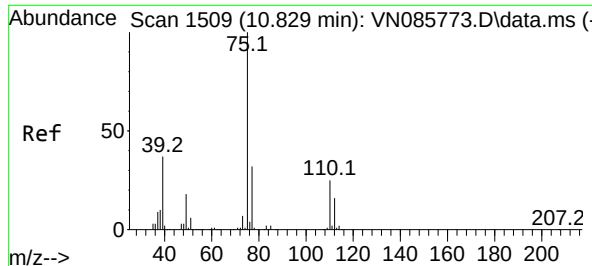
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#52
Toluene
Concen: 4.713 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 92 Resp: 38701
Ion Ratio Lower Upper
92 100
91 170.6 136.9 205.3





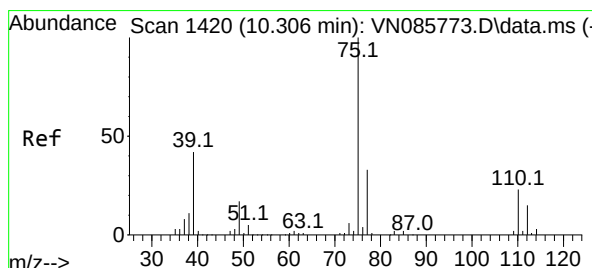
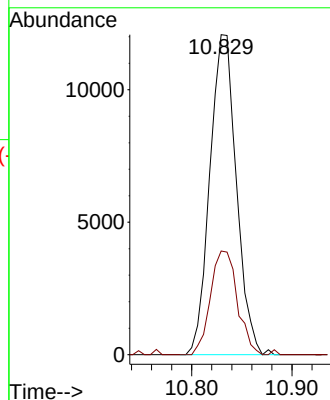
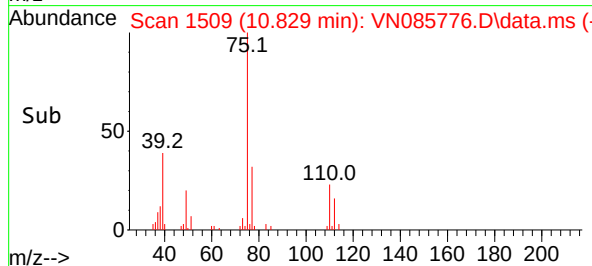
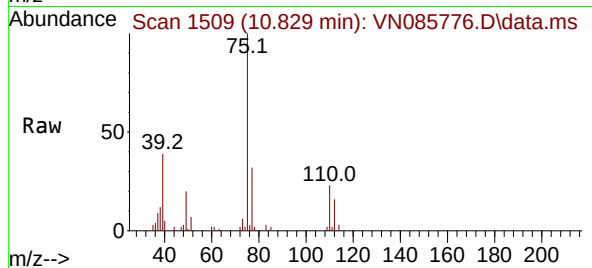
#53
t-1,3-Dichloropropene
Concen: 4.708 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 22215
Ion Ratio Lower Upper
75 100
77 32.4 25.4 38.0

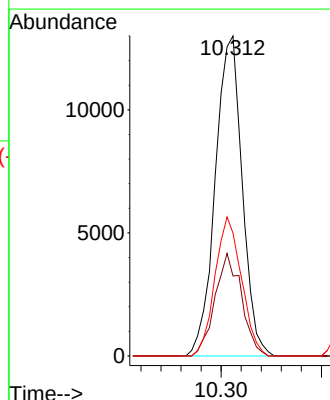
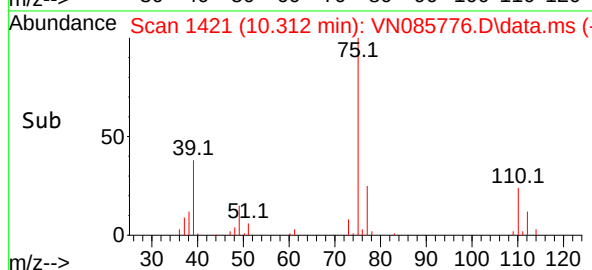
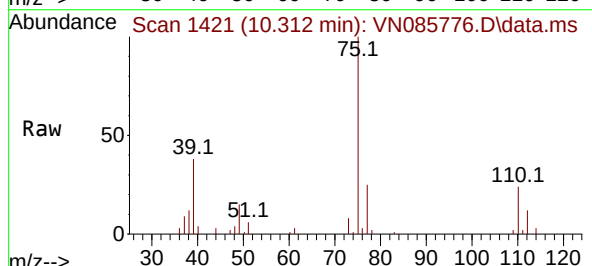
Manual Integrations
APPROVED

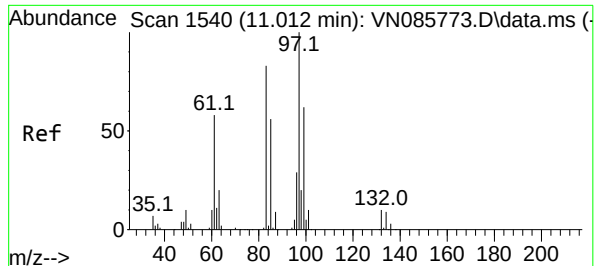
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#54
cis-1,3-Dichloropropene
Concen: 4.684 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 75 Resp: 24235
Ion Ratio Lower Upper
75 100
77 25.0 26.1 39.1#
39 38.4 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 5.008 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 1635

Ion Ratio Lower Upper

97 100

83 88.2 66.1 99.1

85 51.1 44.7 67.1

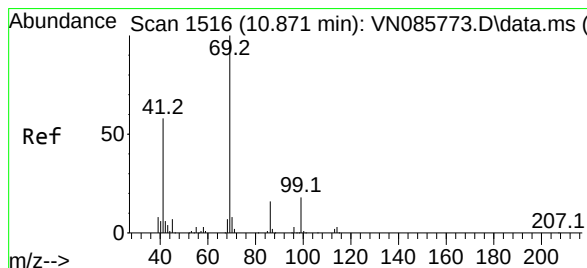
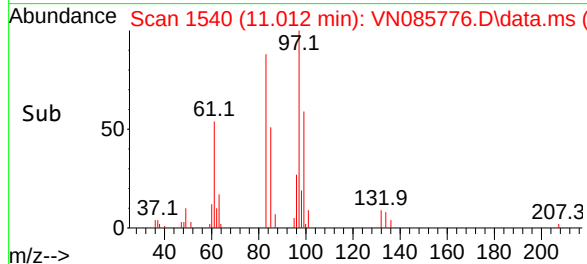
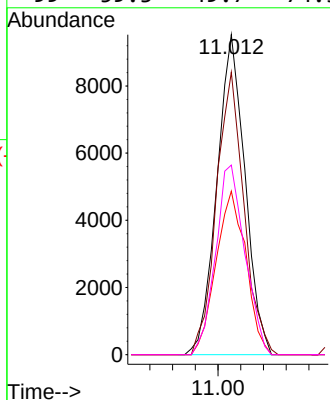
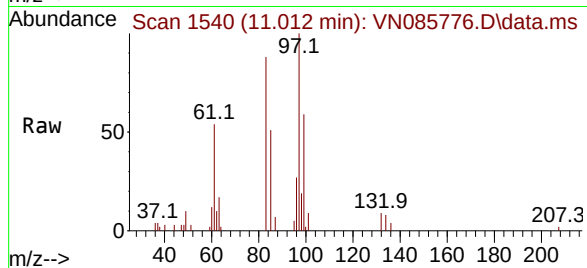
99 59.3 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#56

Ethyl methacrylate

Concen: 4.704 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

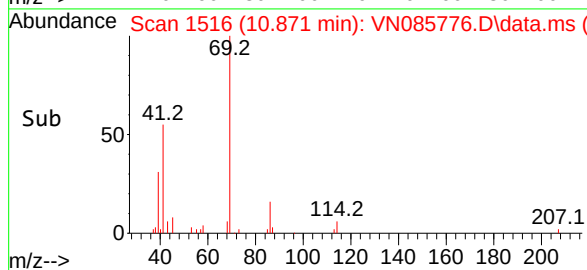
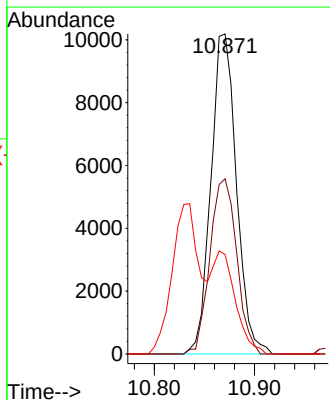
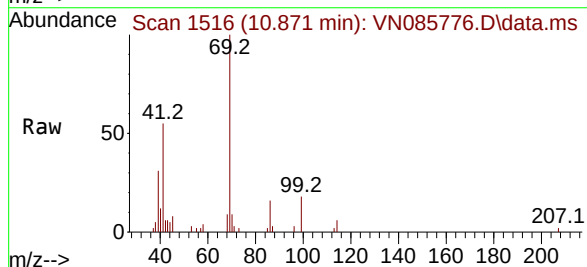
Tgt Ion: 69 Resp: 18032

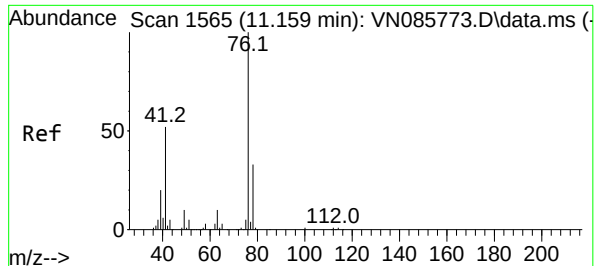
Ion Ratio Lower Upper

69 100

41 57.4 46.0 69.0

39 28.9 22.0 33.0





#57

1,3-Dichloropropane

Concen: 4.792 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 2611

Ion Ratio Lower Upper

76 100

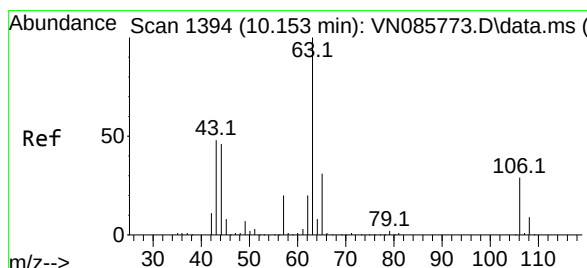
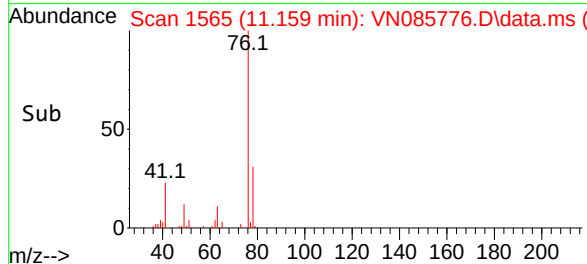
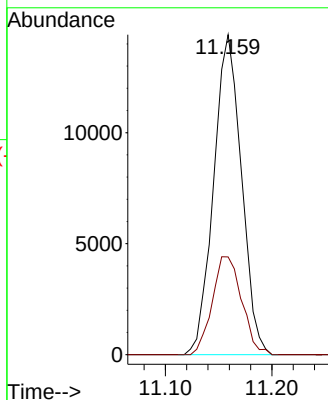
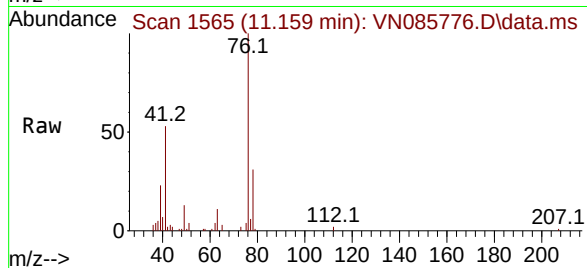
78 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 14.159 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.000 min

Lab File: VN085776.D

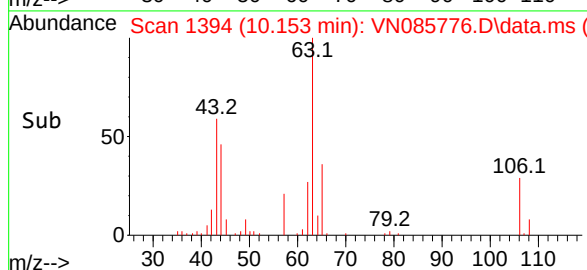
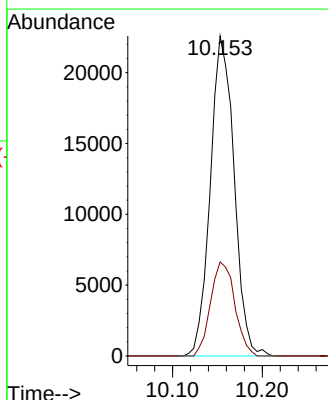
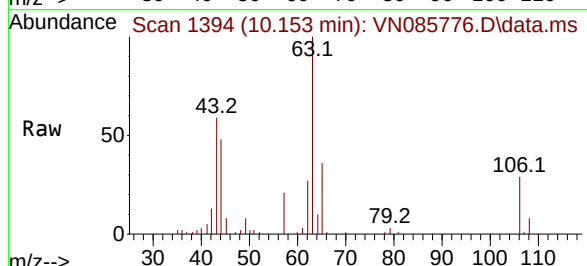
Acq: 18 Feb 2025 12:43

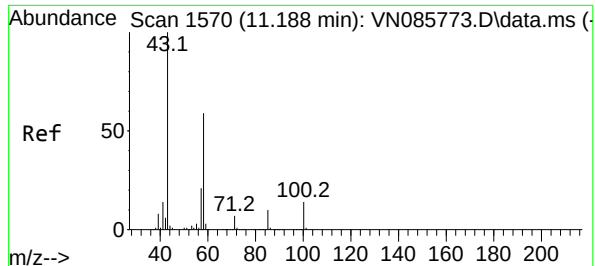
Tgt Ion: 63 Resp: 41567

Ion Ratio Lower Upper

63 100

106 29.9 22.7 34.1





#59

2-Hexanone

Concen: 22.424 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 53498

Ion Ratio Lower Upper

43 100

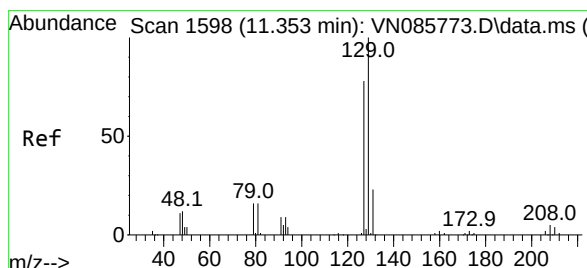
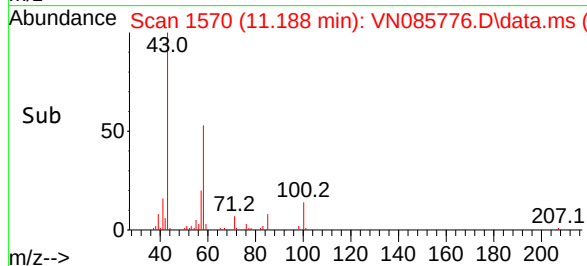
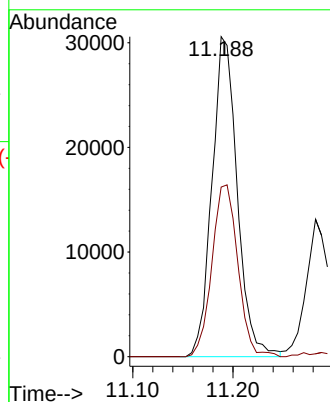
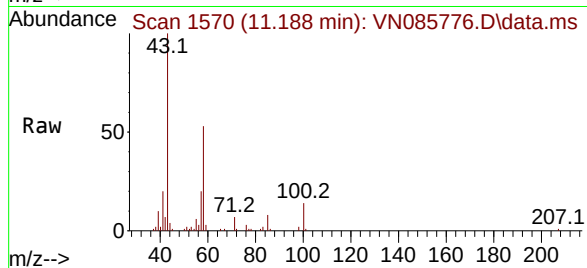
58 55.1 29.8 89.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#60

Dibromochloromethane

Concen: 4.771 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085776.D

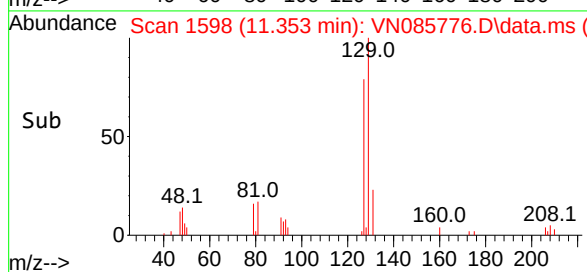
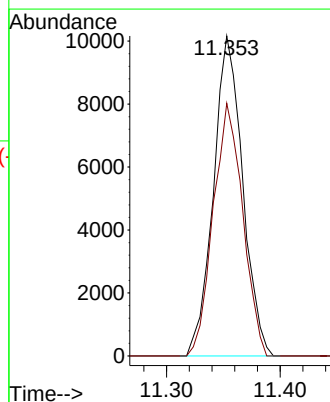
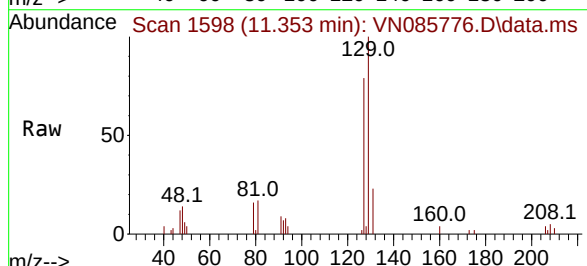
Acq: 18 Feb 2025 12:43

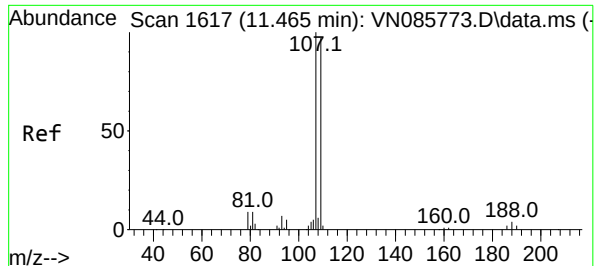
Tgt Ion:129 Resp: 18137

Ion Ratio Lower Upper

129 100

127 79.9 39.1 117.5





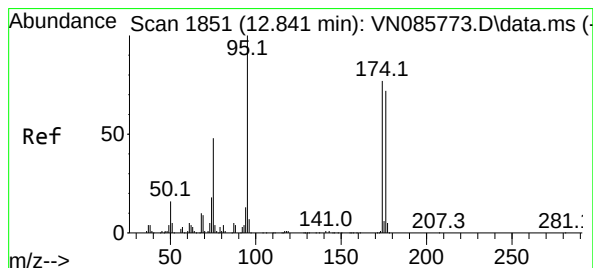
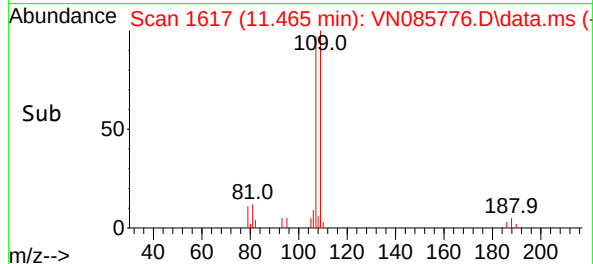
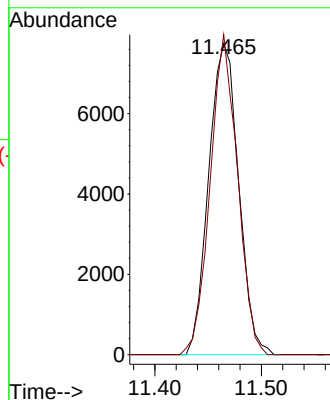
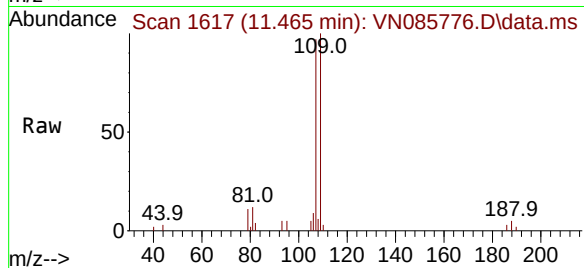
#61
1,2-Dibromoethane
Concen: 4.894 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 1509
Ion Ratio Lower Upper
107 100
109 94.2 76.0 114.0

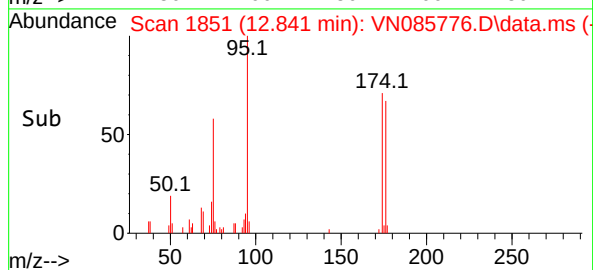
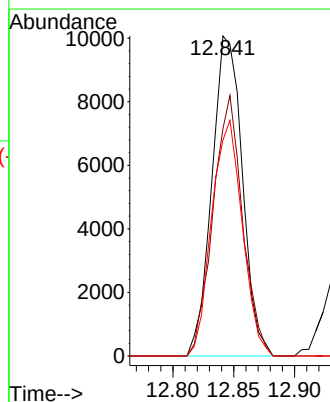
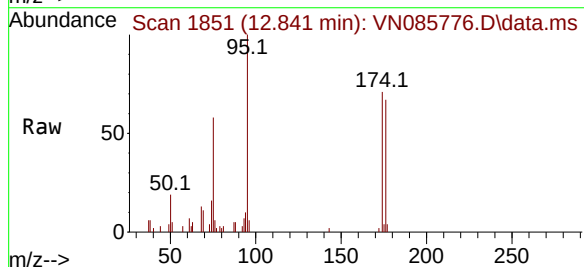
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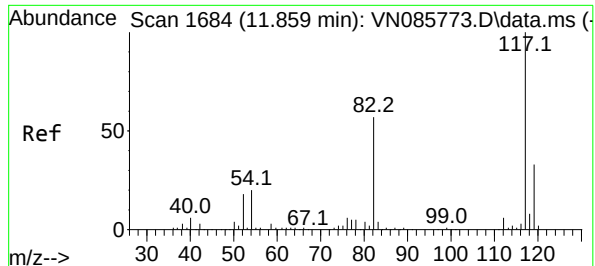
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#62
4-Bromofluorobenzene
Concen: 4.723 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 95 Resp: 17484
Ion Ratio Lower Upper
95 100
174 79.1 0.0 152.4
176 74.1 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:117 Resp: 39688

Ion Ratio Lower Upper

117 100

82 56.7 45.7 68.5

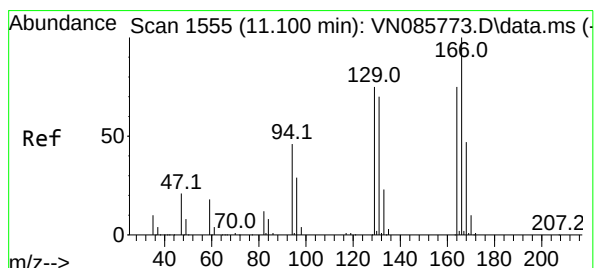
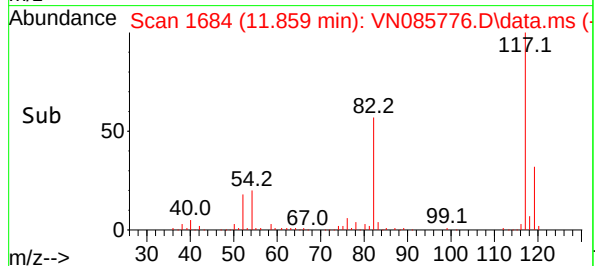
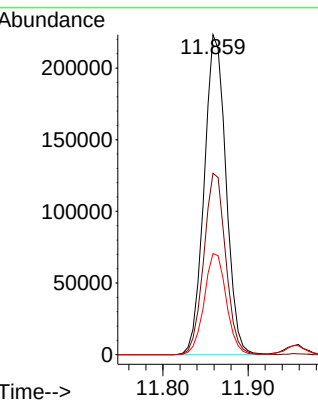
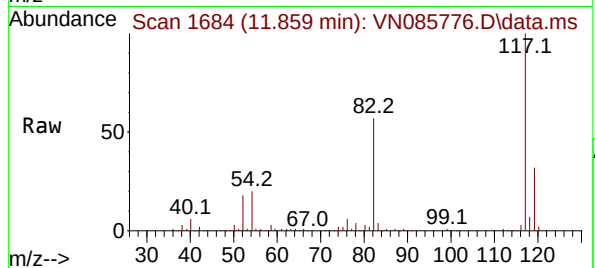
119 31.6 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#64

Tetrachloroethene

Concen: 5.043 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:164 Resp: 15504

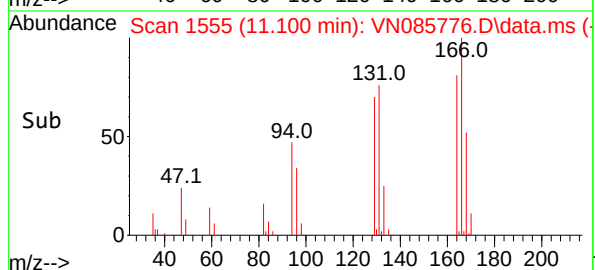
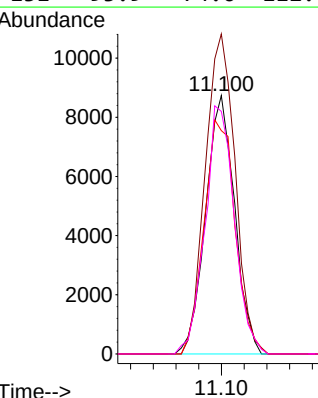
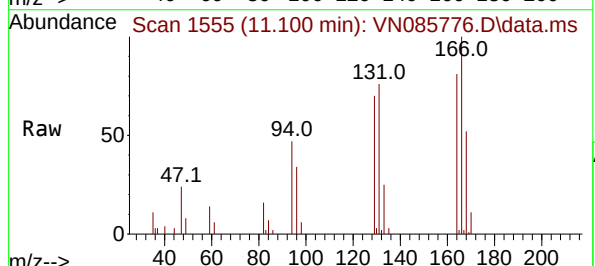
Ion Ratio Lower Upper

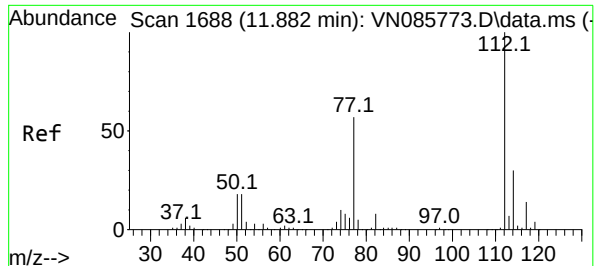
164 100

166 123.9 107.2 160.8

129 86.5 80.7 121.1

131 93.9 74.6 112.0





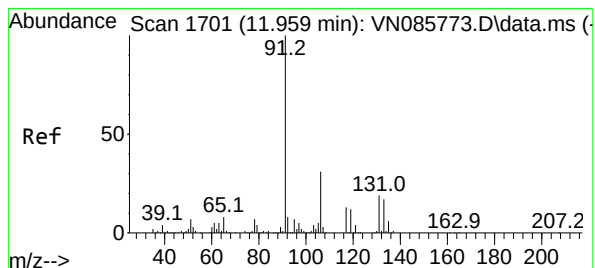
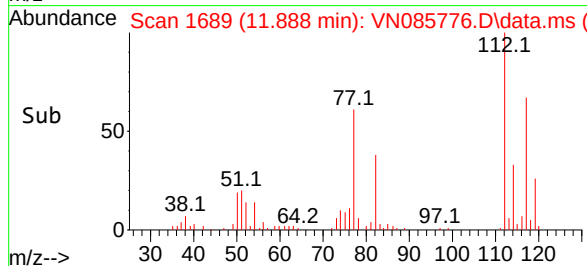
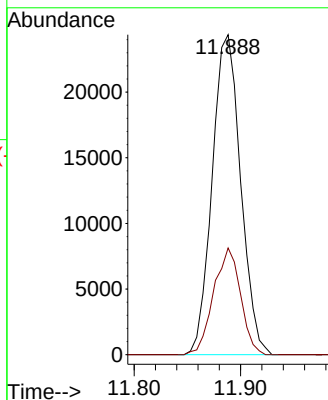
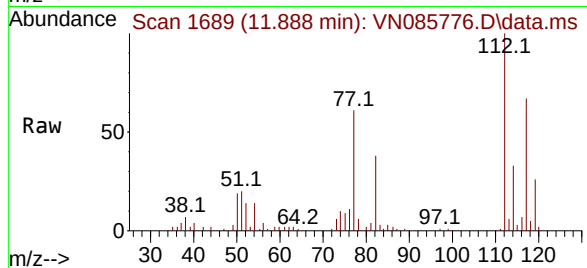
#65
Chlorobenzene
Concen: 4.973 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 45215
Ion Ratio Lower Upper
112 100
114 33.4 24.3 36.5

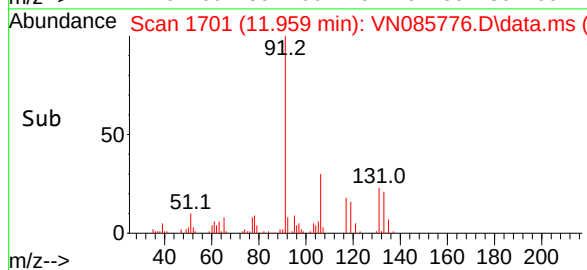
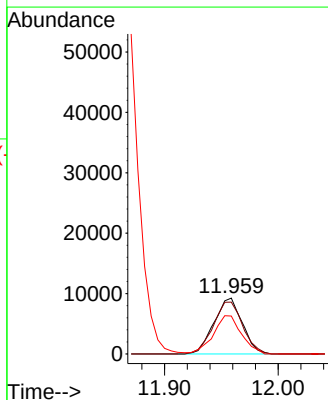
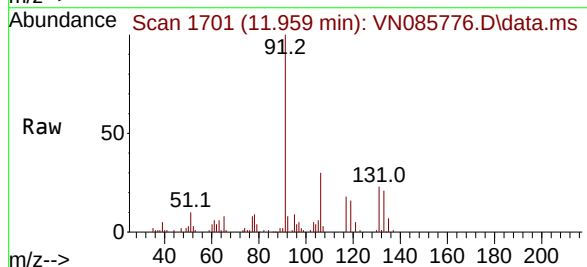
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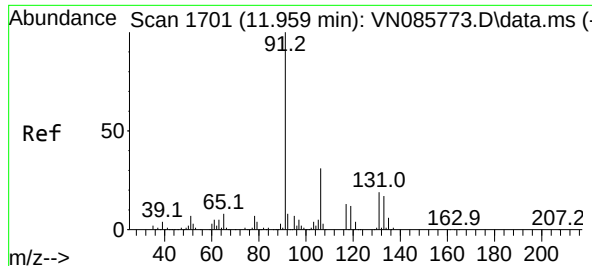
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 4.880 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion:131 Resp: 15949
Ion Ratio Lower Upper
131 100
133 97.4 47.7 143.1
119 68.5 33.3 99.8





#67

Ethyl Benzene

Concen: 4.640 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 66079

Ion Ratio Lower Upper

91 100

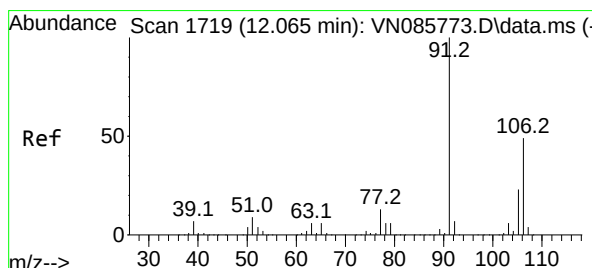
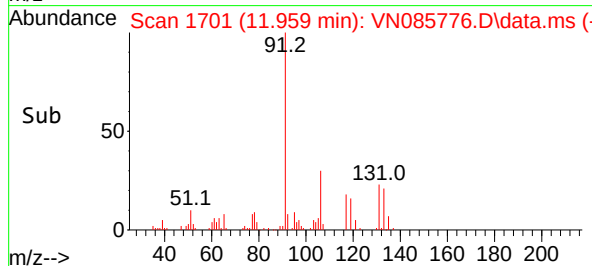
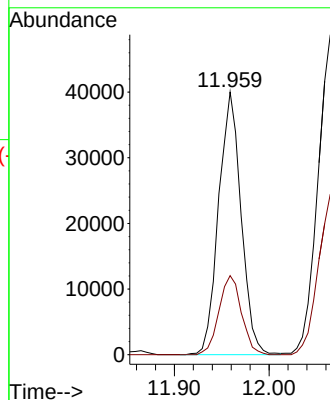
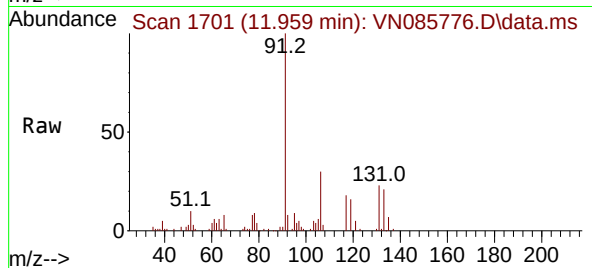
106 30.1 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#68

m/p-Xylenes

Concen: 8.949 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085776.D

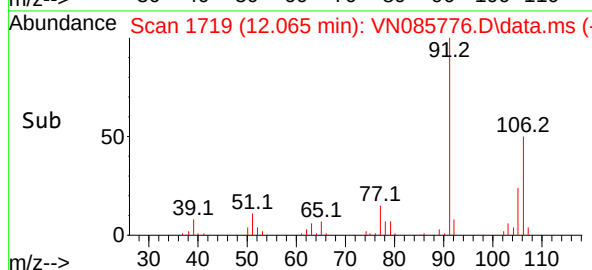
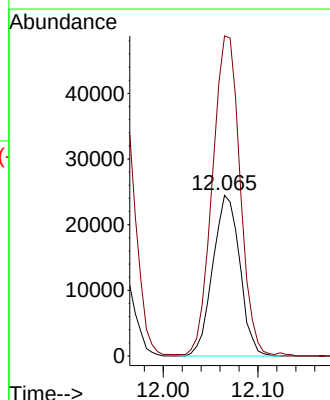
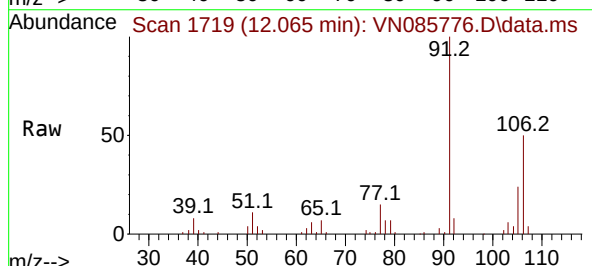
Acq: 18 Feb 2025 12:43

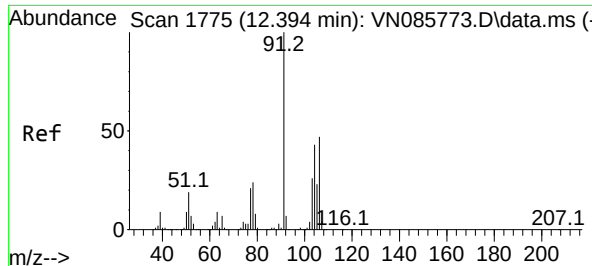
Tgt Ion:106 Resp: 48412

Ion Ratio Lower Upper

106 100

91 202.4 163.3 244.9





#69

o-Xylene

Concen: 4.512 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:106 Resp: 23190

Ion Ratio Lower Upper

106 100

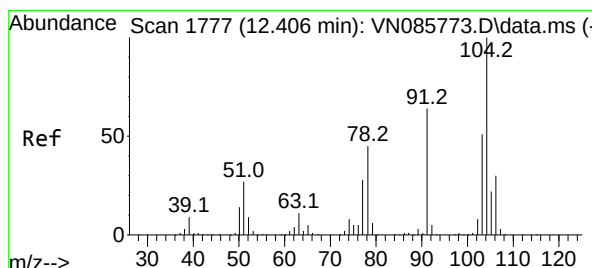
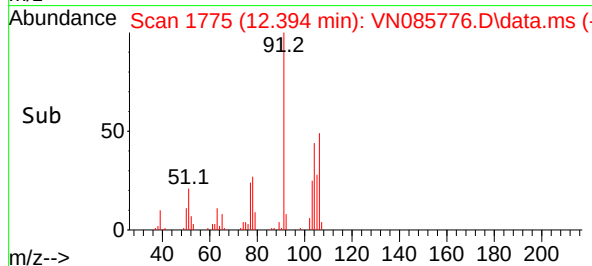
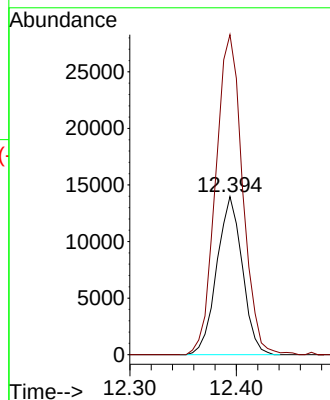
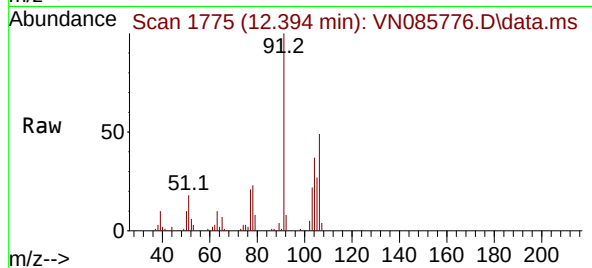
91 213.9 107.1 321.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#70

Styrene

Concen: 4.557 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

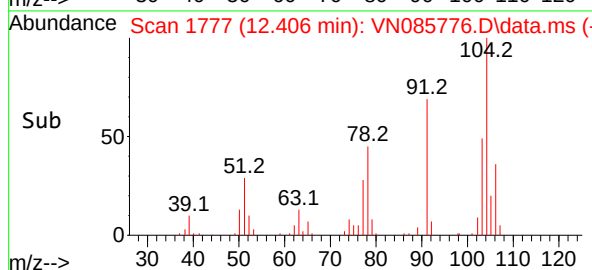
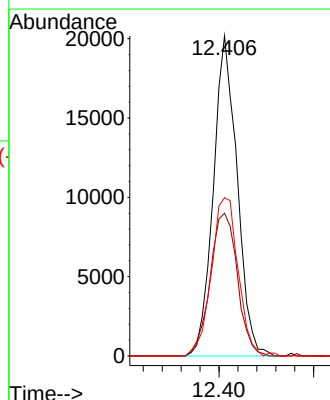
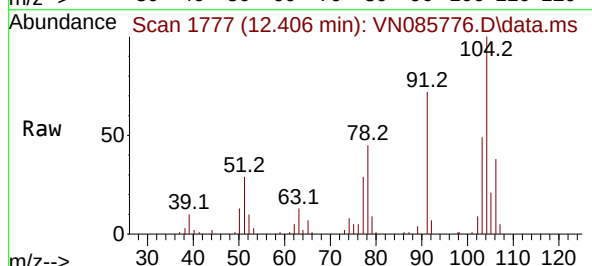
Tgt Ion:104 Resp: 35138

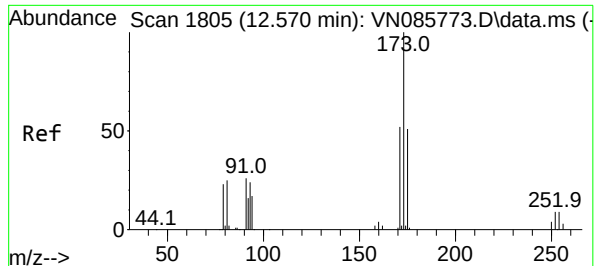
Ion Ratio Lower Upper

104 100

78 51.3 39.0 58.6

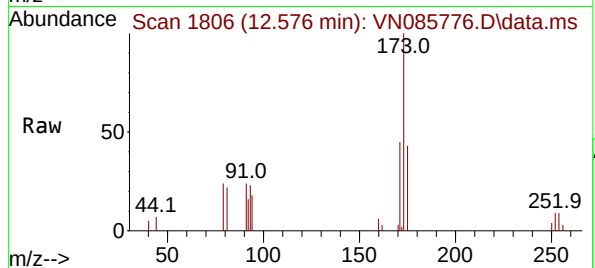
103 55.4 43.3 64.9





#71
Bromoform
Concen: 4.915 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

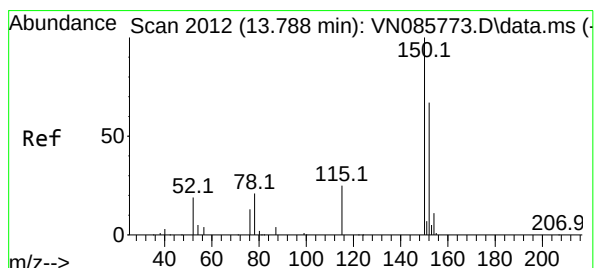
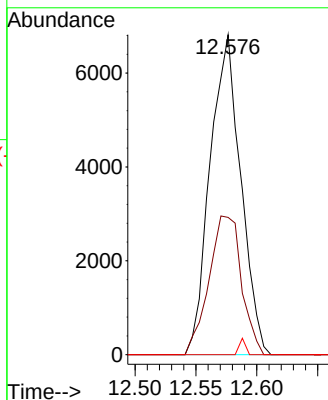
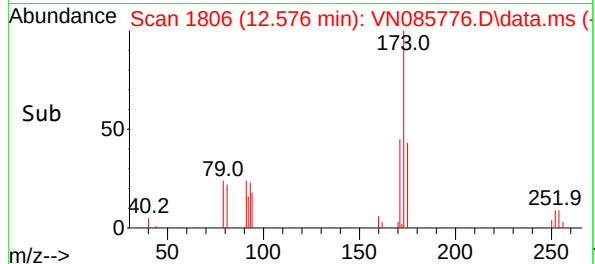
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



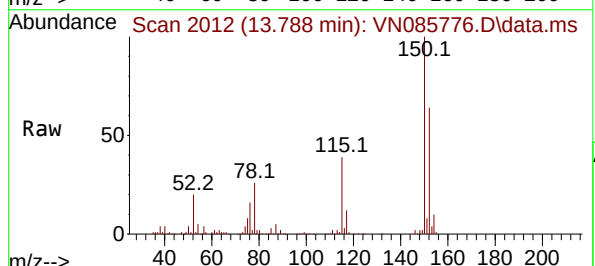
Tgt Ion:173 Resp: 11934
Ion Ratio Lower Upper
173 100
175 46.0 25.1 75.4
254 1.0 0.0 0.0

Manual Integrations
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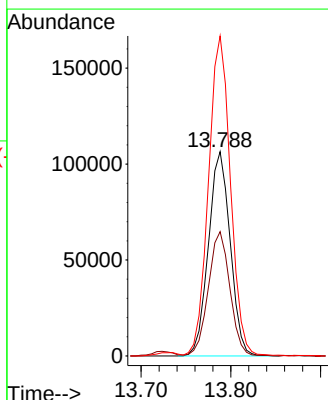
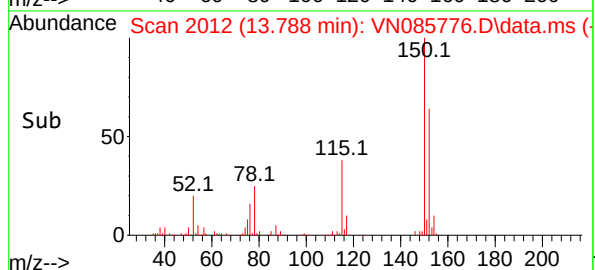
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

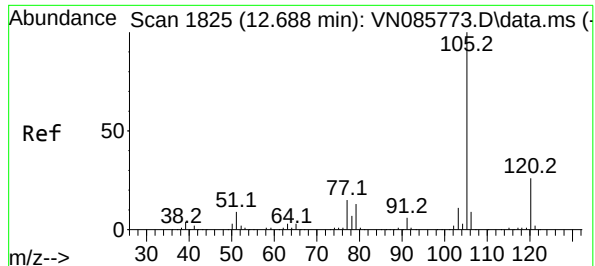


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43



Tgt Ion:152 Resp: 179241
Ion Ratio Lower Upper
152 100
115 60.3 30.4 91.3
150 158.2 0.0 345.4





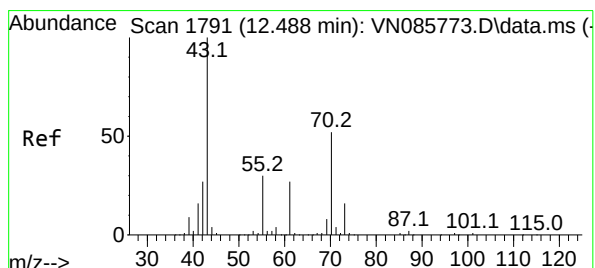
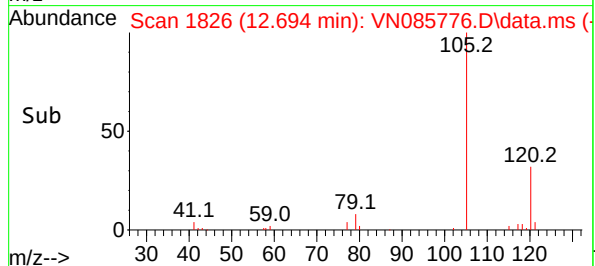
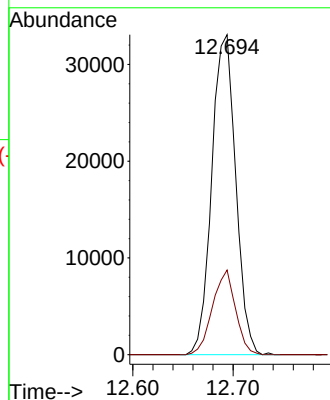
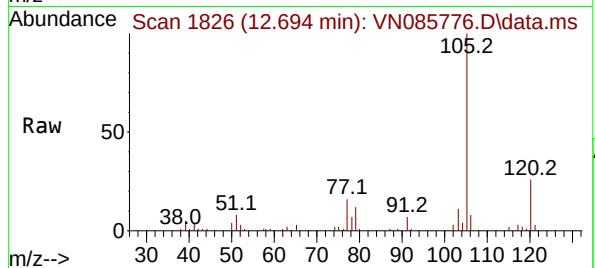
#73
Isopropylbenzene
Concen: 4.477 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 5498
Ion Ratio Lower Upper
105 100
120 25.4 13.0 39.0

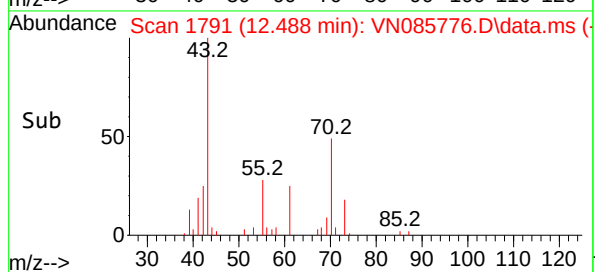
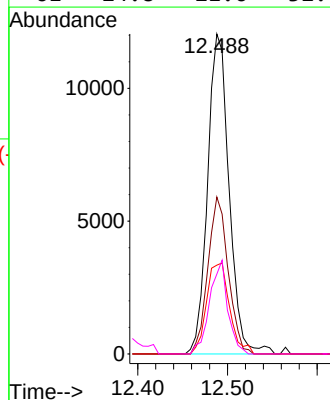
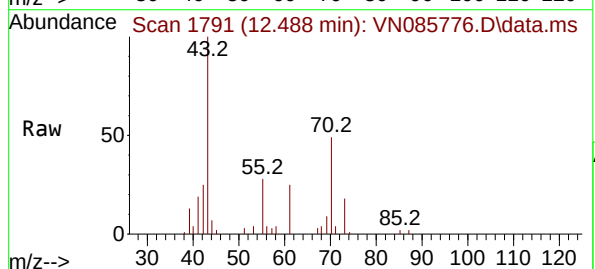
Manual Integrations
APPROVED

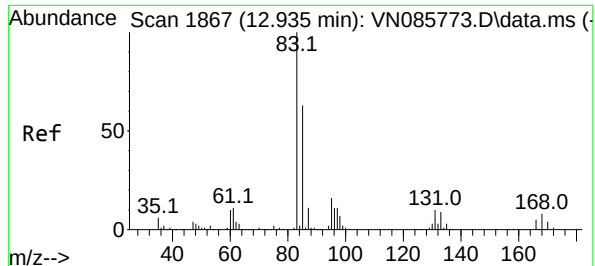
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#74
N-ethyl acetate
Concen: 4.623 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

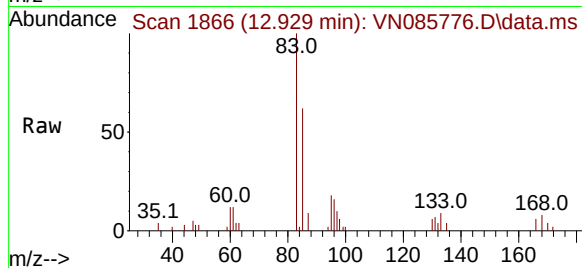
Tgt Ion: 43 Resp: 20017
Ion Ratio Lower Upper
43 100
70 46.5 41.0 61.4
55 30.4 24.6 36.8
61 24.8 21.6 32.4





#75
1,1,2-Tetrachloroethane
Concen: 5.164 ug/l
RT: 12.929 min Scan# 1866
Delta R.T. -0.006 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

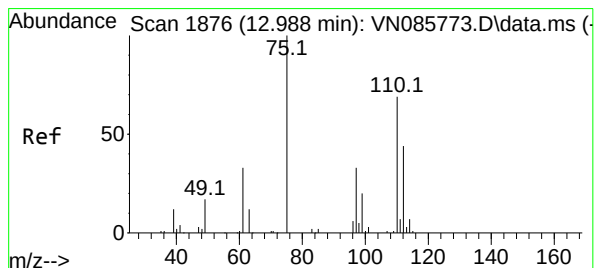
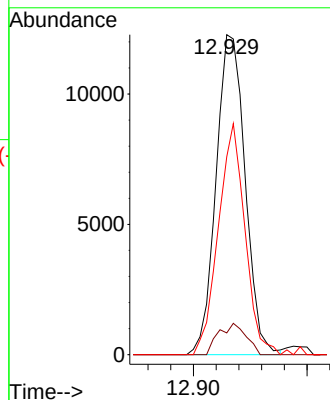
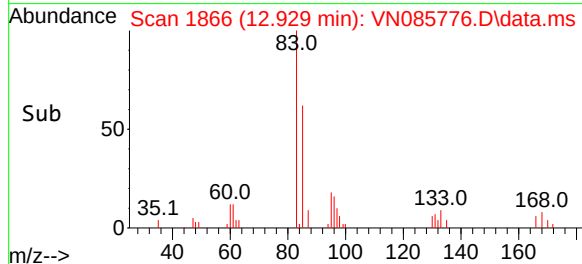
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 83 Resp: 2182
Ion Ratio Lower Upper
83 100
131 9.2 5.0 15.0
85 66.1 32.2 96.6

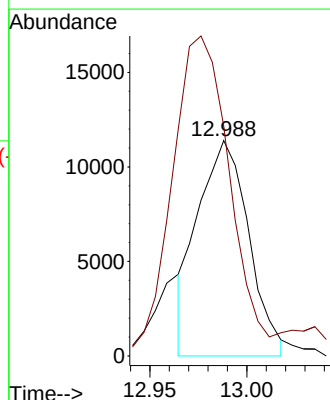
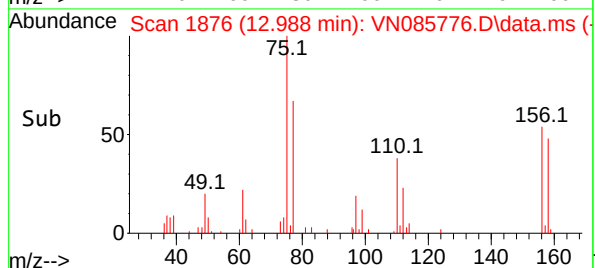
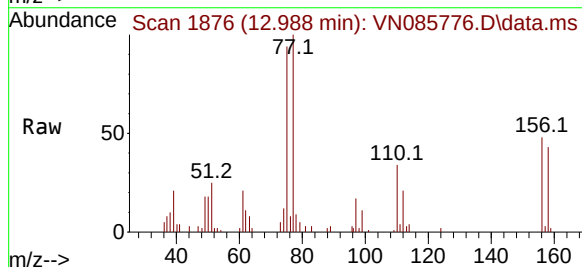
Manual Integrations
APPROVED

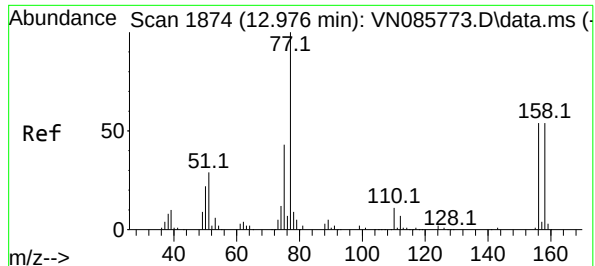
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#76
1,2,3-Trichloropropane
Concen: 5.285 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 75 Resp: 20813
Ion Ratio Lower Upper
75 100
77 170.0 100.0 300.0





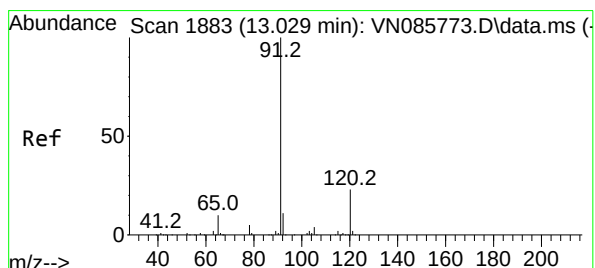
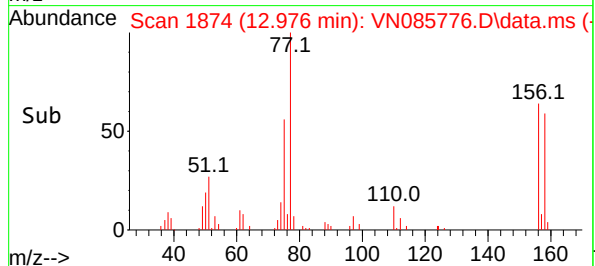
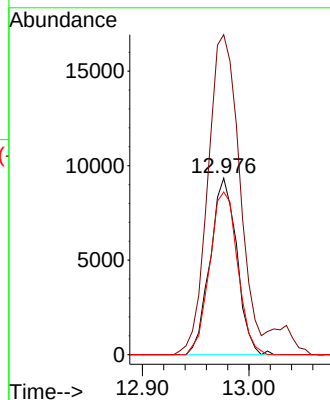
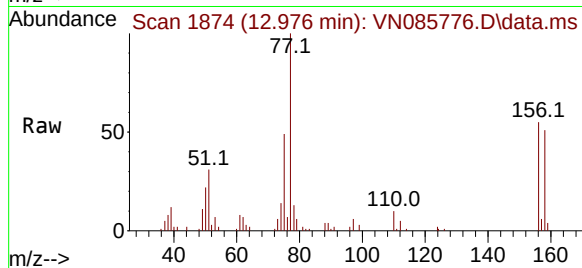
#77
Bromobenzene
Concen: 4.888 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 16215
Ion Ratio Lower Upper
156 100
77 218.2 104.1 312.3
158 96.9 48.1 144.4

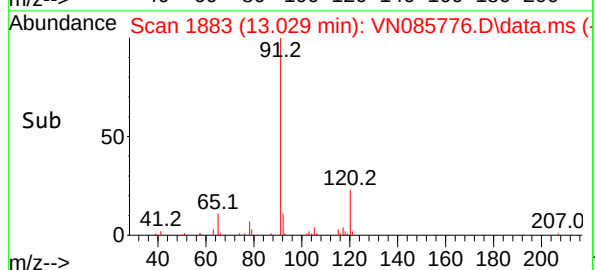
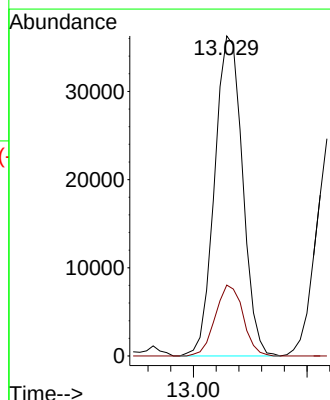
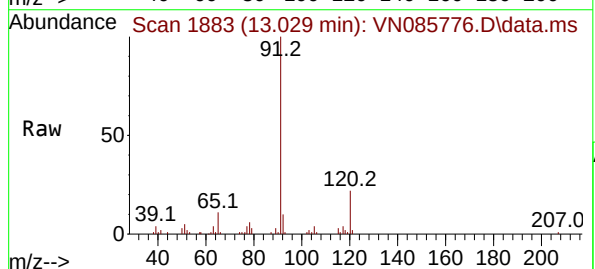
Manual Integrations
APPROVED

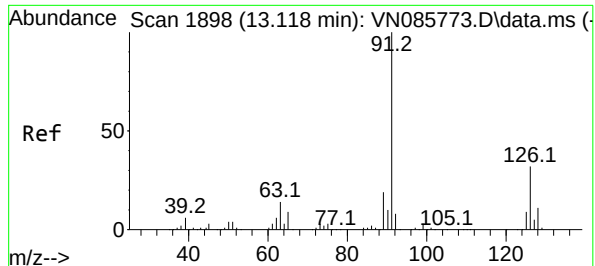
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#78
n-propylbenzene
Concen: 4.414 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 91 Resp: 62073
Ion Ratio Lower Upper
91 100
120 22.0 11.3 33.8





#79

2-Chlorotoluene

Concen: 4.625 ug/l

RT: 13.117 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 4345

Ion Ratio Lower Upper

91 100

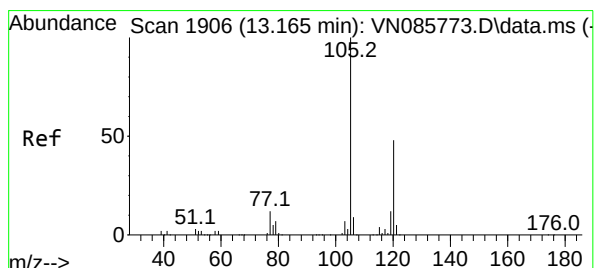
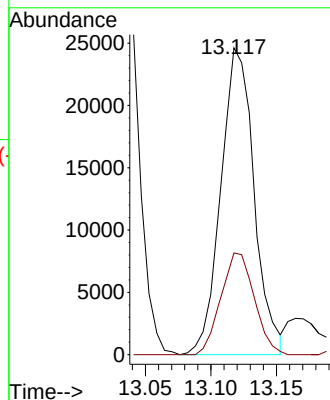
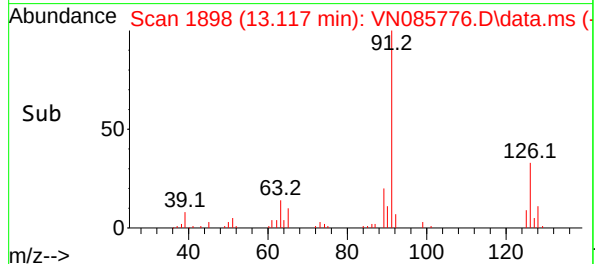
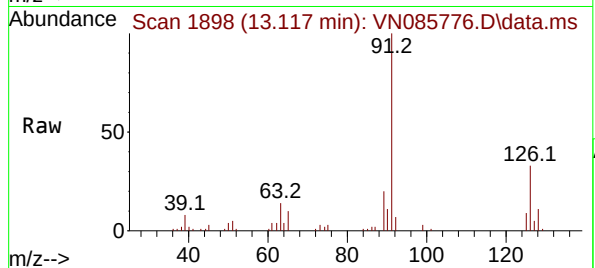
126 33.3 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.333 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085776.D

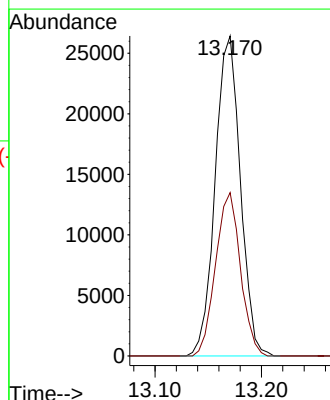
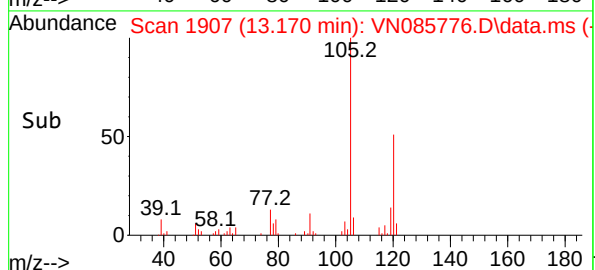
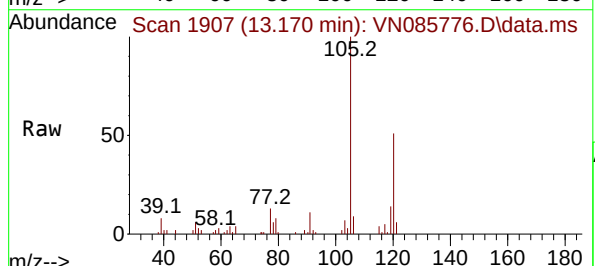
Acq: 18 Feb 2025 12:43

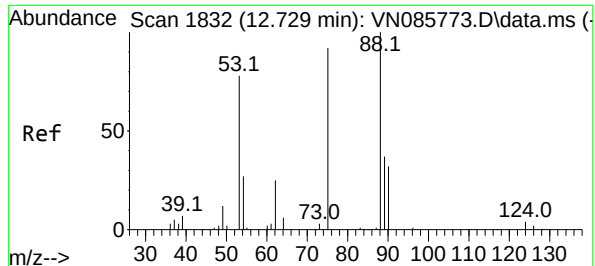
Tgt Ion:105 Resp: 43342

Ion Ratio Lower Upper

105 100

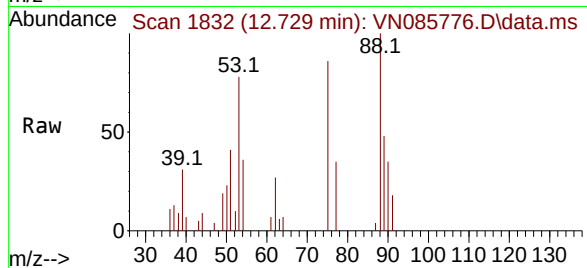
120 50.4 24.3 72.9





#81
trans-1,4-Dichloro-2-butene
Concen: 4.448 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

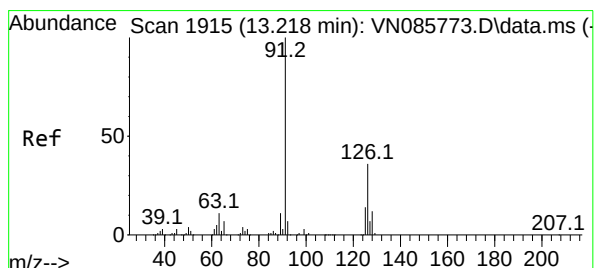
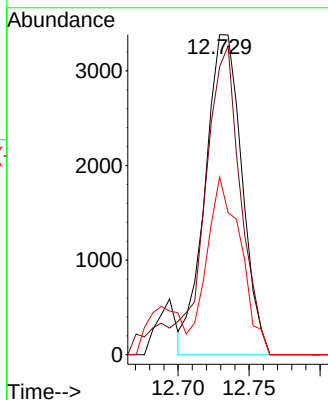
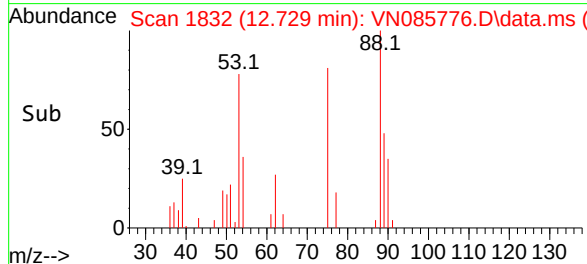
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 75 Resp: 6070
Ion Ratio Lower Upper
75 100
53 100.7 74.2 111.4
89 51.5 34.9 52.3

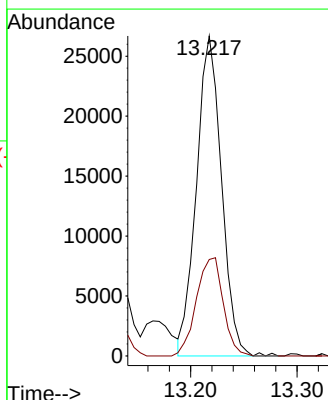
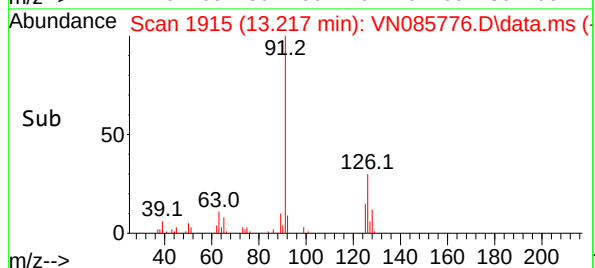
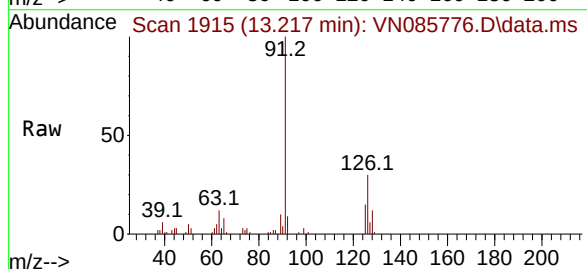
Manual Integrations
APPROVED

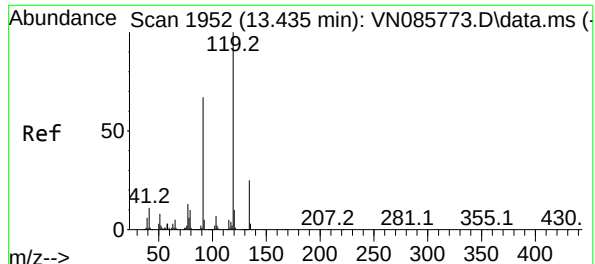
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#82
4-Chlorotoluene
Concen: 4.690 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 91 Resp: 43684
Ion Ratio Lower Upper
91 100
126 32.8 16.4 49.4





#83

tert-Butylbenzene

Concen: 4.515 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

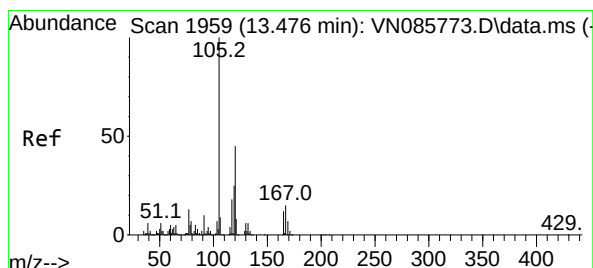
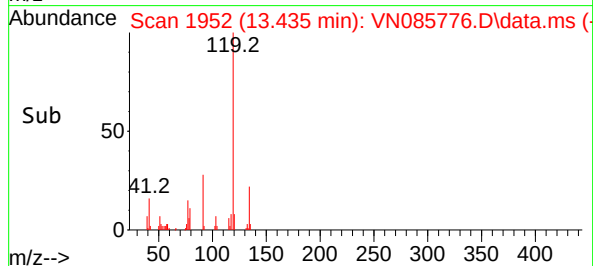
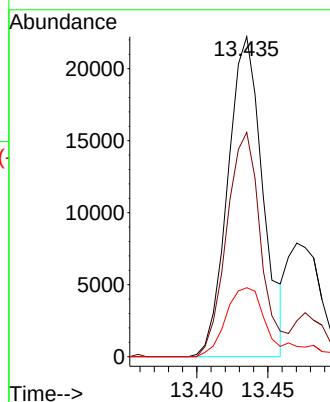
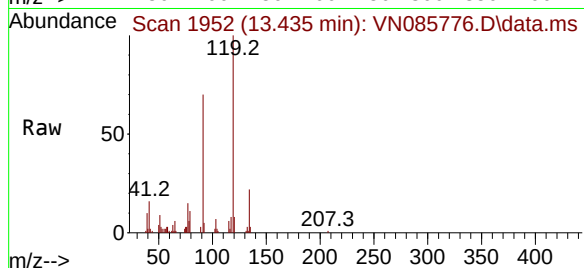
VSTDIC005

Tgt Ion:	119	Resp:	3797
Ion Ratio	Lower	Upper	
119	100		
91	69.1	32.5	97.5
134	26.9	13.3	39.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.324 ug/l

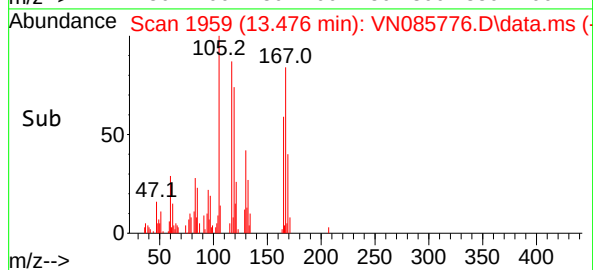
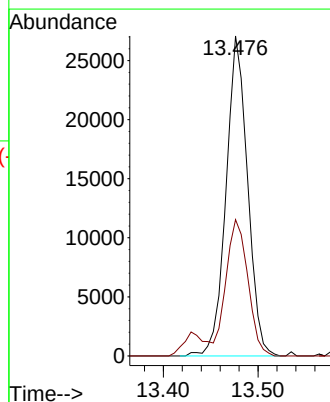
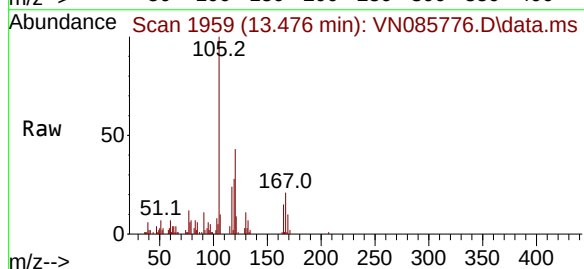
RT: 13.476 min Scan# 1959

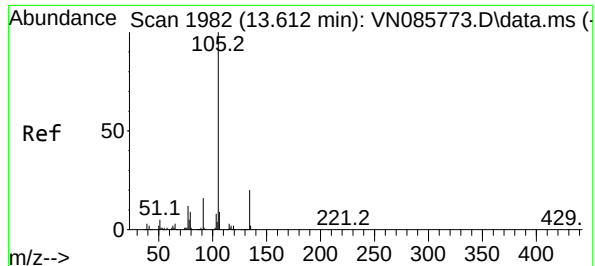
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:	105	Resp:	42792
Ion Ratio	Lower	Upper	
105	100		
120	43.1	22.4	67.3





#85

sec-Butylbenzene

Concen: 4.431 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 52659

Ion Ratio Lower Upper

105 100

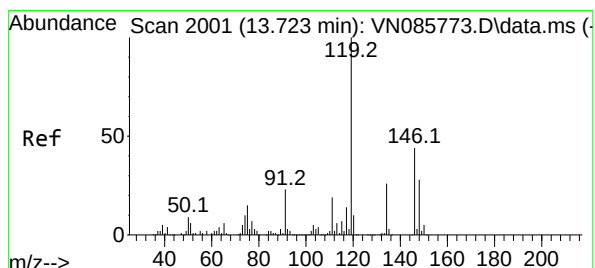
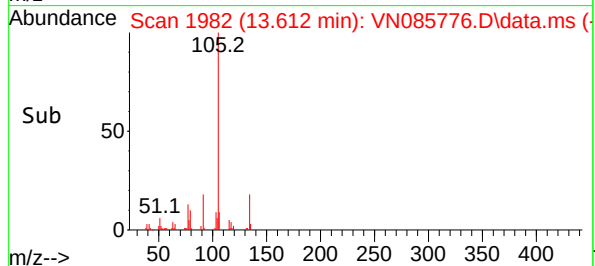
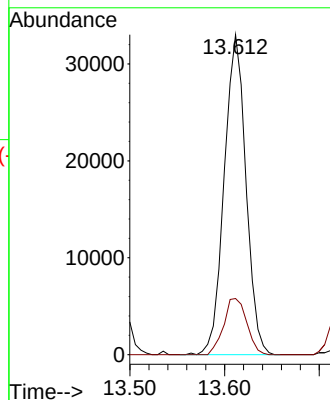
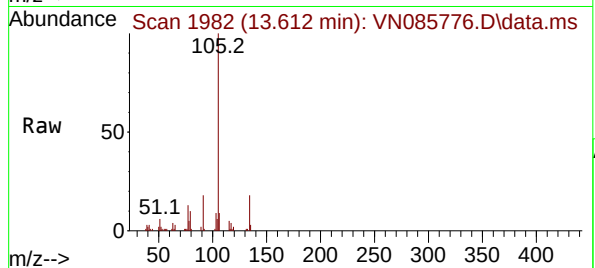
134 18.6 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 4.632 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

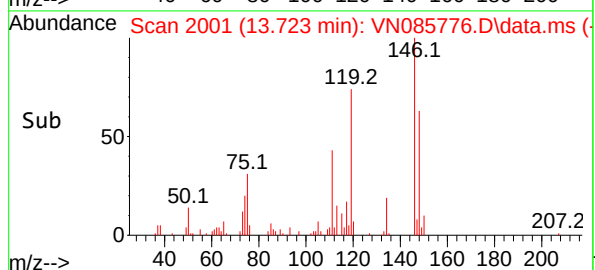
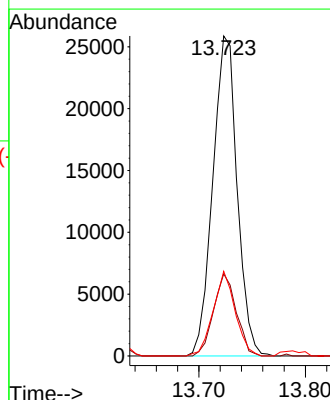
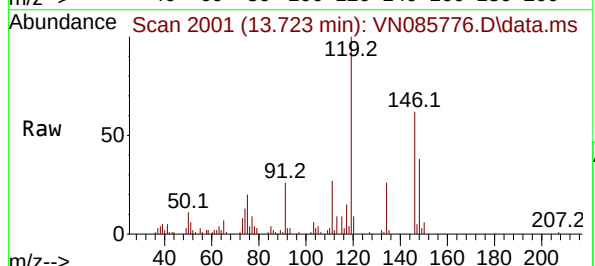
Tgt Ion:119 Resp: 41010

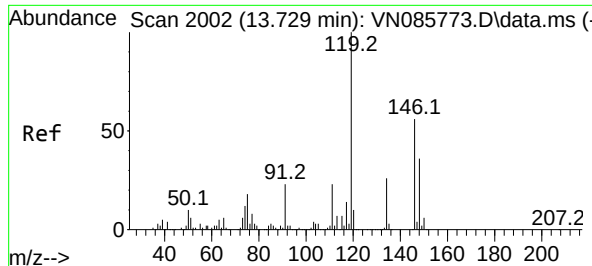
Ion Ratio Lower Upper

119 100

134 24.0 13.0 39.0

91 24.0 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 4.894 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

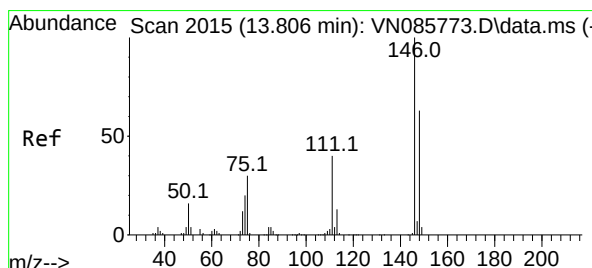
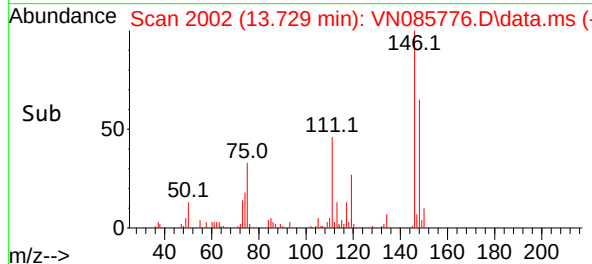
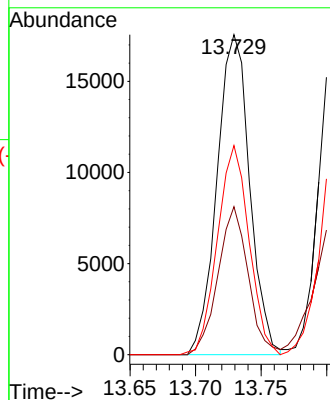
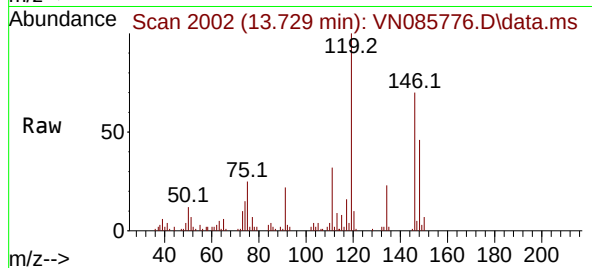
VSTDIC005

Tgt Ion:	146	Resp:	3041
Ion Ratio	Lower	Upper	
146	100		
111	42.8	21.1	63.3
148	63.2	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 4.999 ug/l

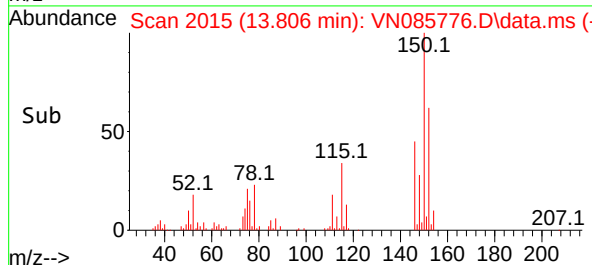
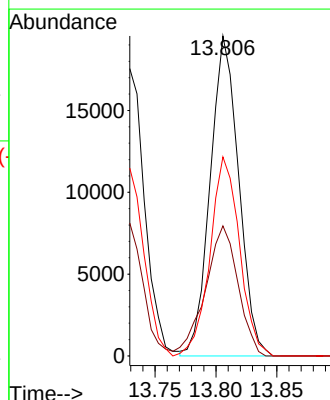
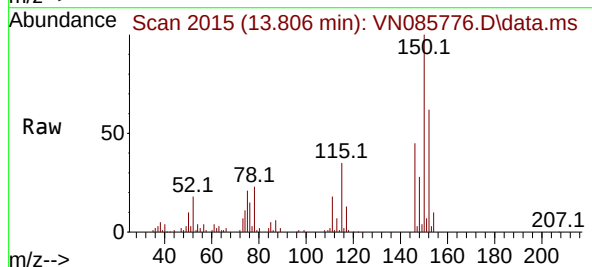
RT: 13.806 min Scan# 2015

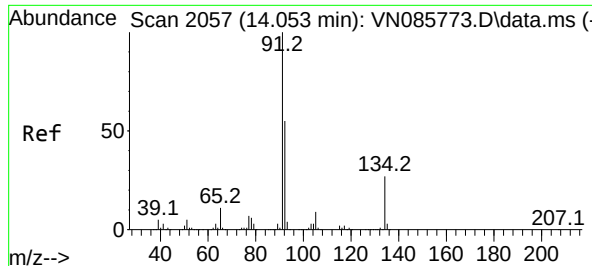
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:	146	Resp:	31847
Ion Ratio	Lower	Upper	
146	100		
111	46.4	20.4	61.3
148	64.5	31.8	95.4





#89

n-Butylbenzene

Concen: 4.317 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

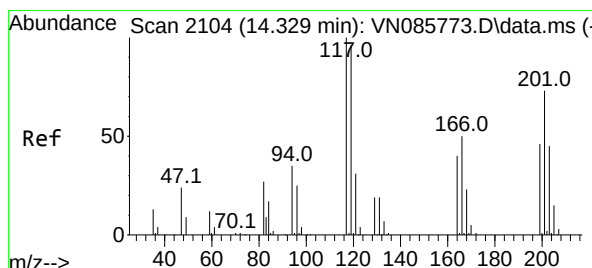
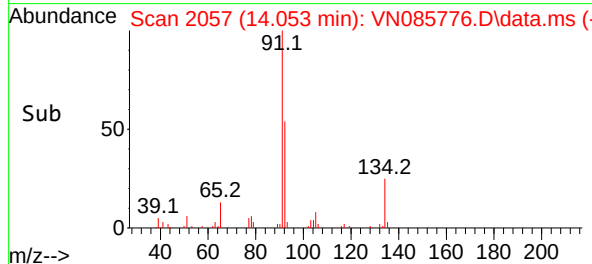
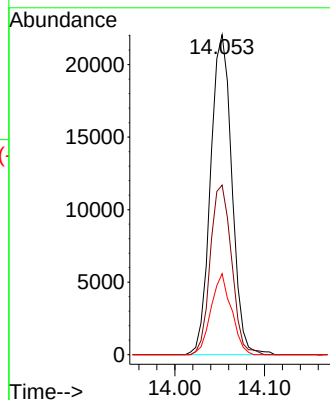
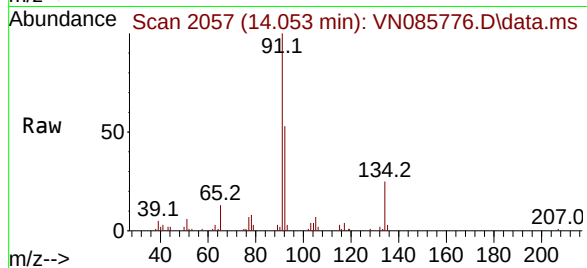
VSTDIC005

Tgt Ion:	91	Resp:	3642
Ion	Ratio	Lower	Upper
91	100		
92	53.0	27.1	81.3
134	24.3	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#90

Hexachloroethane

Concen: 5.010 ug/l

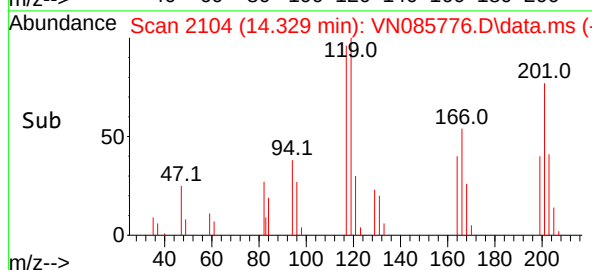
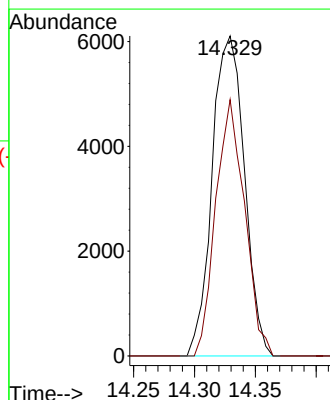
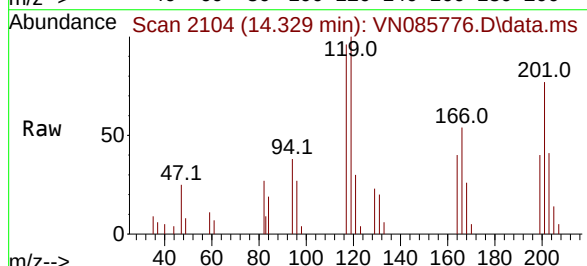
RT: 14.329 min Scan# 2104

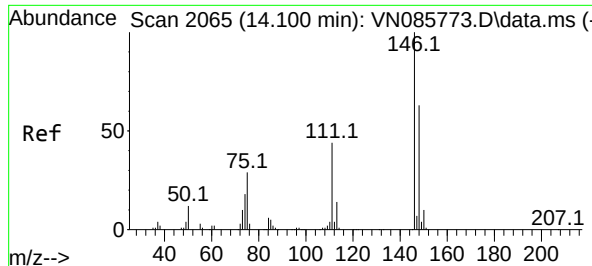
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Tgt Ion:	117	Resp:	11276
Ion	Ratio	Lower	Upper
117	100		
201	71.8	35.6	106.9





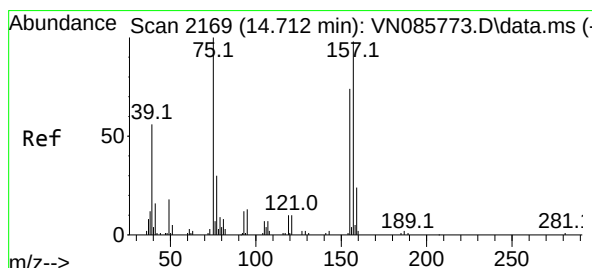
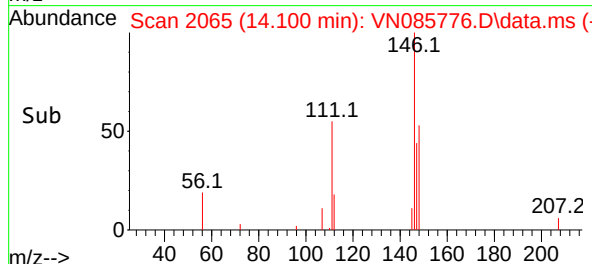
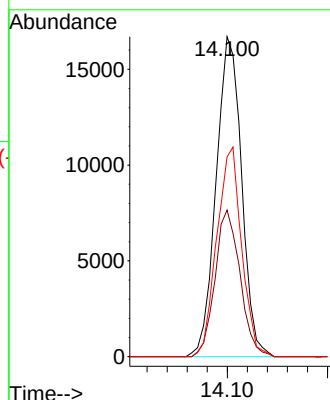
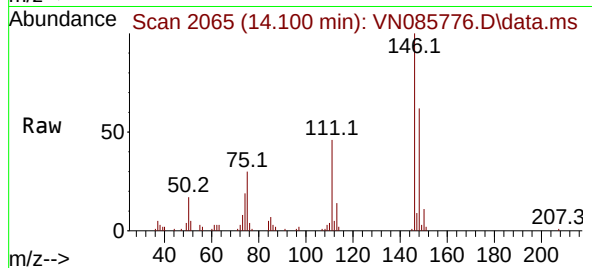
#91
1,2-Dichlorobenzene
Concen: 4.923 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:146 Resp: 29424
Ion Ratio Lower Upper
146 100
111 45.1 21.4 64.3
148 63.8 32.0 96.2

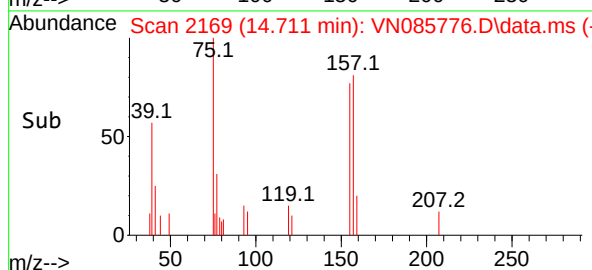
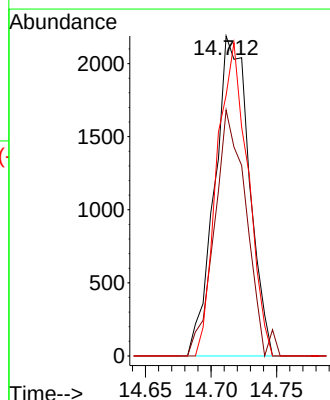
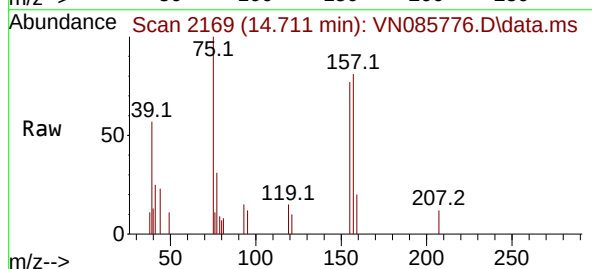
Manual Integrations
APPROVED

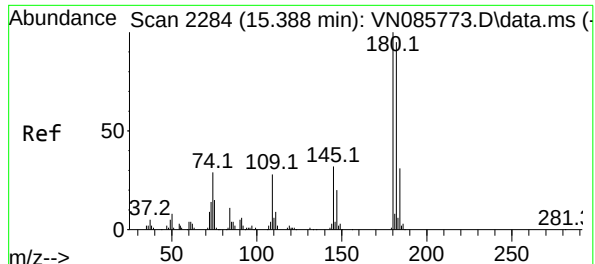
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.138 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

Tgt Ion: 75 Resp: 3987
Ion Ratio Lower Upper
75 100
155 70.9 39.9 119.6
157 88.2 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 4.578 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

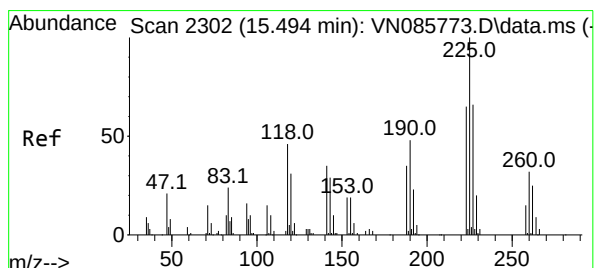
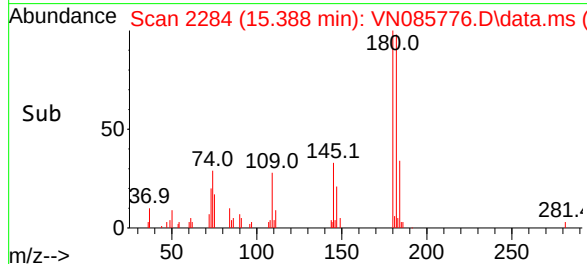
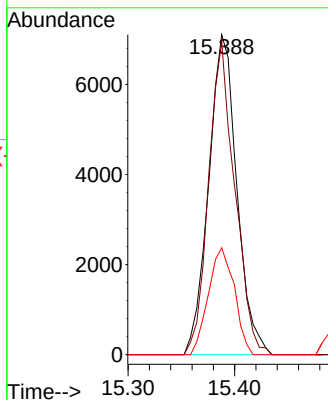
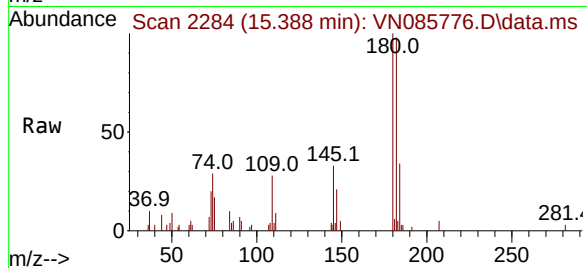
VSTDIC005

Tgt Ion:180	Resp:	13040
Ion Ratio	Lower	Upper
180	100	
182	90.9	47.3 141.9
145	30.8	16.2 48.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

Concen: 4.982 ug/l

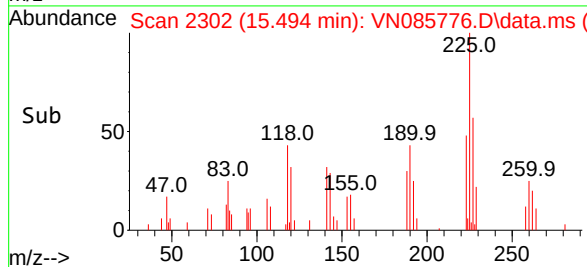
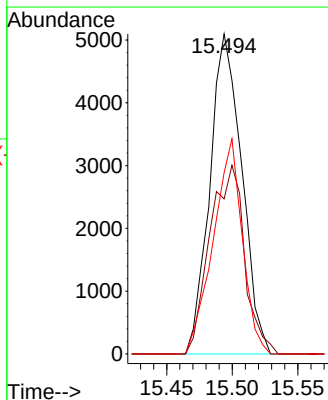
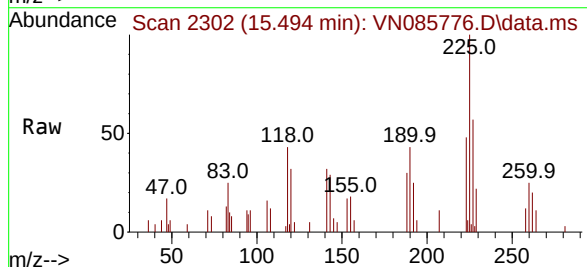
RT: 15.494 min Scan# 2302

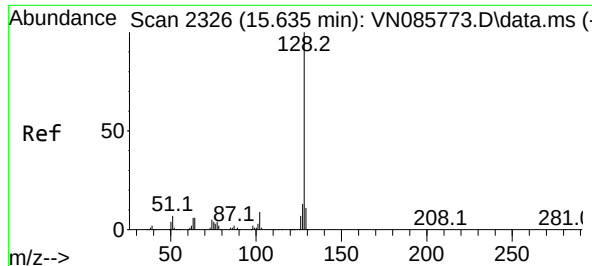
Delta R.T. -0.000 min

Lab File: VN085776.D

Acq: 18 Feb 2025 12:43

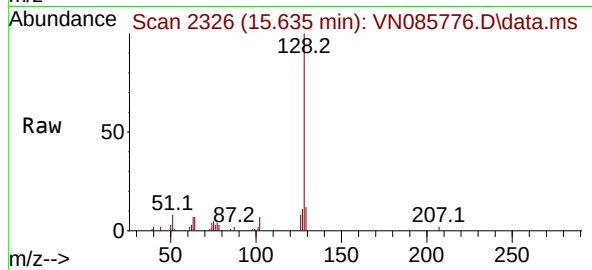
Tgt Ion:225	Resp:	8623
Ion Ratio	Lower	Upper
225	100	
223	64.0	31.9 95.5
227	61.2	32.2 96.6





#95
Naphthalene
Concen: 4.259 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43

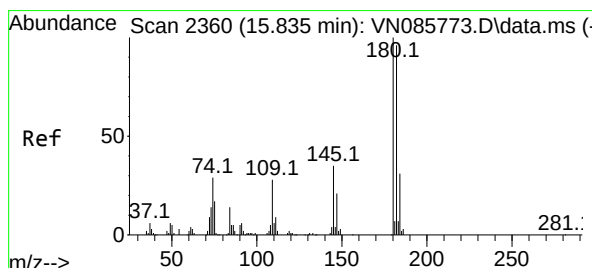
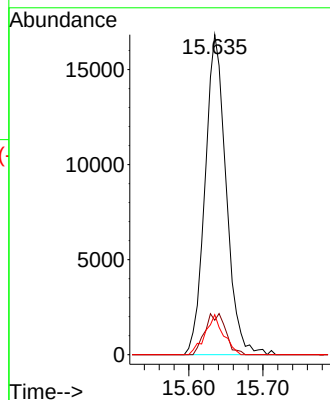
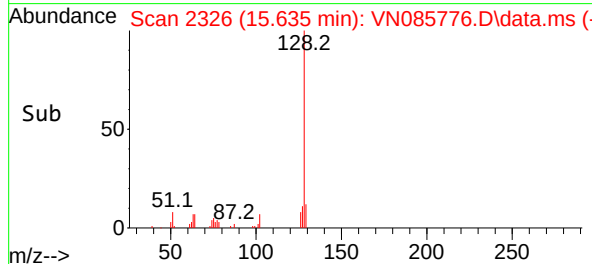
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



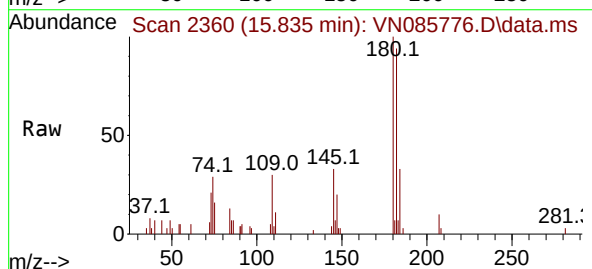
Tgt Ion:128 Resp: 33300
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.7 13.1

Manual Integrations
APPROVED

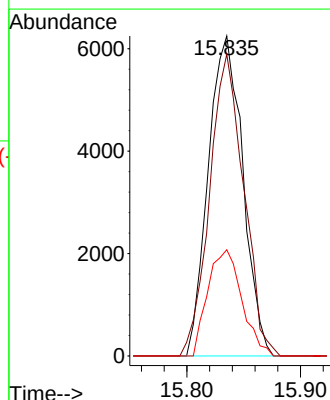
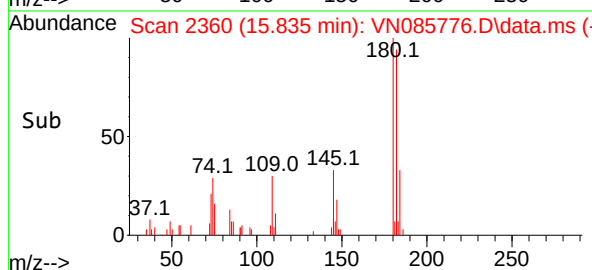
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.612 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085776.D
Acq: 18 Feb 2025 12:43



Tgt Ion:180 Resp: 13188
Ion Ratio Lower Upper
180 100
182 93.0 47.3 141.8
145 32.8 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085777.D
 Acq On : 18 Feb 2025 13:07
 Operator : JC\MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Quant Time: Feb 19 03:01:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 02:27:19 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
 Supervised By :Mahesh Dadoda 02/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	274051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	476457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	394997	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152224	50.000	ug/l	0.00

System Monitoring Compounds

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

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.124	85	3620	0.971	ug/l	84
3) Chloromethane	2.359	50	4478	1.197	ug/l #	83
4) Vinyl Chloride	2.518	62	4169	1.053	ug/l #	80
6) Chloroethane	3.124	64	3201	1.220	ug/l	100
7) Trichlorofluoromethane	3.500	101	6048	1.055	ug/l #	71
8) Diethyl Ether	3.965	74	1716m	0.925	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	3034	0.915	ug/l	90
12) 1,1-Dichloroethene	4.341	96	2817	0.937	ug/l #	75
14) Allyl chloride	5.024	41	3802m	0.964	ug/l	
15) Acrylonitrile	5.718	53	6980	4.913	ug/l	98
16) Acetone	4.436	43	6230	5.542	ug/l #	73
17) Carbon Disulfide	4.712	76	10131	1.137	ug/l	98
18) Methyl Acetate	5.030	43	4677	1.210	ug/l #	52
19) Methyl tert-butyl Ether	5.794	73	7883	0.883	ug/l	97
20) Methylene Chloride	5.277	84	4036	1.116	ug/l #	84
21) trans-1,2-Dichloroethene	5.788	96	3415	1.055	ug/l	91
22) Diisopropyl ether	6.659	45	7268	0.815	ug/l #	80
23) Vinyl Acetate	6.600	43	27376m	4.498	ug/l	
24) 1,1-Dichloroethane	6.571	63	5881	0.970	ug/l #	82
25) 2-Butanone	7.482	43	7658	4.630	ug/l	92
26) 2,2-Dichloropropane	7.477	77	5170m	0.959	ug/l	
27) cis-1,2-Dichloroethene	7.488	96	3541	0.944	ug/l	92
28) Bromochloromethane	7.812	49	2649	1.063	ug/l #	98
29) Tetrahydrofuran	7.841	42	4567	4.276	ug/l	93
30) Chloroform	7.959	83	6416	1.013	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	5643	1.002	ug/l #	47
36) 1,1-Dichloropropene	8.365	75	4055	0.919	ug/l	93
37) Ethyl Acetate	7.553	43	3365	0.927	ug/l #	84
38) Carbon Tetrachloride	8.353	117	5079	0.969	ug/l #	94
39) Methylcyclohexane	9.594	83	3557	0.821	ug/l #	89
40) Benzene	8.606	78	13536	0.957	ug/l	96
41) Methacrylonitrile	7.771	41	1573	0.810	ug/l #	85
42) 1,2-Dichloroethane	8.671	62	4497	0.976	ug/l	88
43) Isopropyl Acetate	8.677	43	12901	1.494	ug/l #	73
44) Trichloroethene	9.347	130	3768	1.085	ug/l	98
45) 1,2-Dichloropropane	9.618	63	3235	0.948	ug/l	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085777.D
 Acq On : 18 Feb 2025 13:07
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:01:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 02:27:19 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.706	93	2304	0.957	ug/l	96
47) Bromodichloromethane	9.882	83	4879	0.947	ug/l #	92
48) Methyl methacrylate	9.676	41	2247	0.833	ug/l	92
49) 1,4-Dioxane	9.694	88	992	19.344	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	13832	3.951	ug/l	94
52) Toluene	10.629	92	6568	0.792	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	3884	0.815	ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	4211	0.806	ug/l #	87
55) 1,1,2-Trichloroethane	11.012	97	3084	0.936	ug/l #	88
56) Ethyl methacrylate	10.859	69	2517	1.052	ug/l #	75
57) 1,3-Dichloropropane	11.153	76	5078	0.923	ug/l	93
58) 2-Chloroethyl Vinyl ether	10.153	63	6353	3.424	ug/l	99
59) 2-Hexanone	11.194	43	8780	3.646	ug/l	91
60) Dibromochloromethane	11.353	129	3380	0.881	ug/l	91
61) 1,2-Dibromoethane	11.465	107	2599	0.835	ug/l	89
64) Tetrachloroethene	11.094	164	3108	1.016	ug/l	87
65) Chlorobenzene	11.882	112	8761	0.968	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.959	131	3222	0.991	ug/l #	66
67) Ethyl Benzene	11.959	91	11246	0.793	ug/l	100
68) m/p-Xylenes	12.065	106	7606	1.413	ug/l	91
69) o-Xylene	12.394	106	3965	0.775	ug/l	95
70) Styrene	12.406	104	5877	1.257	ug/l	99
71) Bromoform	12.570	173	2161	0.894	ug/l #	87
73) Isopropylbenzene	12.694	105	8928	0.856	ug/l	95
74) N-amyl acetate	12.488	43	3263	0.887	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.935	83	3870	1.078	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	4032m	1.206	ug/l	
77) Bromobenzene	12.976	156	2624	0.931	ug/l	76
78) n-propylbenzene	13.029	91	9228	0.773	ug/l	99
79) 2-Chlorotoluene	13.123	91	7260	0.910	ug/l	95
80) 1,3,5-Trimethylbenzene	13.164	105	6185	0.728	ug/l	98
82) 4-Chlorotoluene	13.217	91	6700	0.847	ug/l	99
83) tert-Butylbenzene	13.435	119	5485	0.768	ug/l	93
84) 1,2,4-Trimethylbenzene	13.482	105	5595	0.666	ug/l	96
85) sec-Butylbenzene	13.611	105	7569	0.750	ug/l	99
86) p-Isopropyltoluene	13.723	119	5416	1.252	ug/l	95
87) 1,3-Dichlorobenzene	13.729	146	5321	1.008	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	5848m	1.081	ug/l	
89) n-Butylbenzene	14.047	91	6398	0.893	ug/l	91
90) Hexachloroethane	14.329	117	2153	1.126	ug/l	91
91) 1,2-Dichlorobenzene	14.100	146	5309	1.046	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.711	75	780	1.184	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	2525	1.044	ug/l	95
94) Hexachlorobutadiene	15.494	225	1976	1.344	ug/l	94
95) Naphthalene	15.635	128	7298	1.099	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.841	180	2791	1.149	ug/l	97

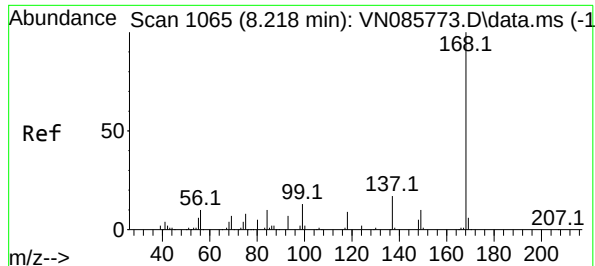
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations

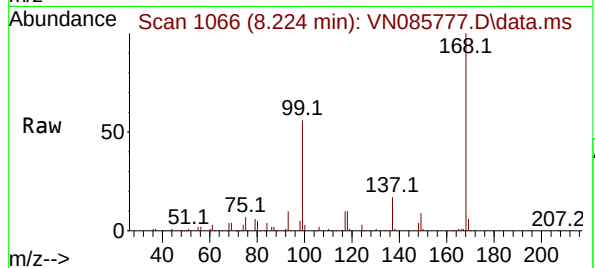
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

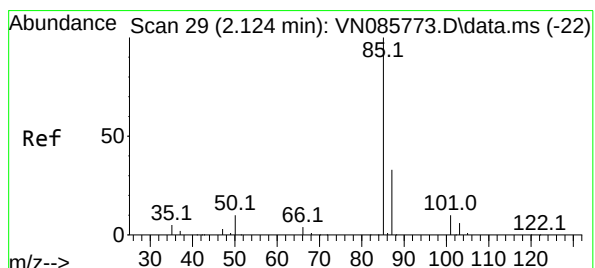
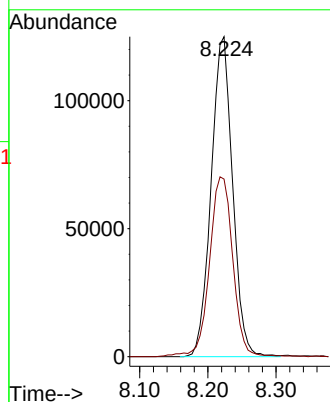
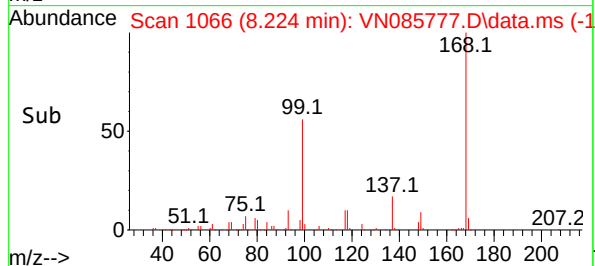
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 27405
Ion Ratio Lower Upper
168 100
99 55.2 47.9 71.9

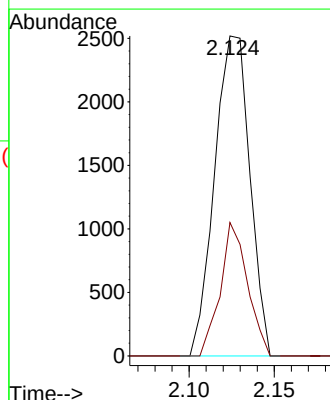
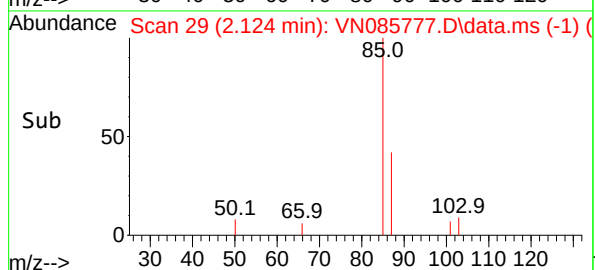
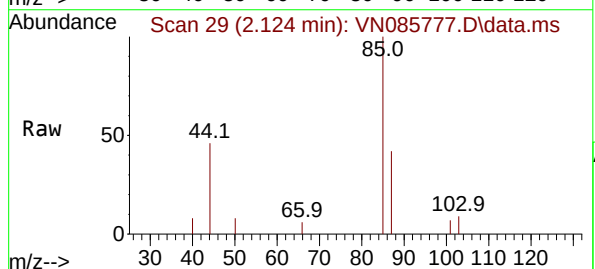
Manual Integrations
APPROVED

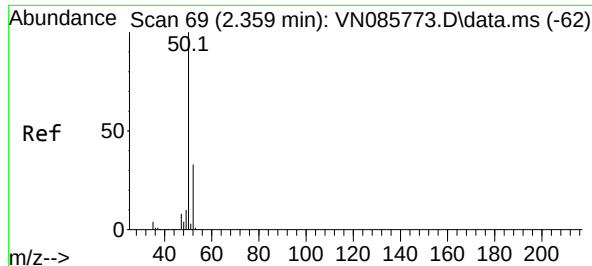
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 0.971 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 85 Resp: 3620
Ion Ratio Lower Upper
85 100
87 41.7 16.4 49.2





#3

Chloromethane

Concen: 1.197 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 50 Resp: 4478

Ion Ratio Lower Upper

50 100

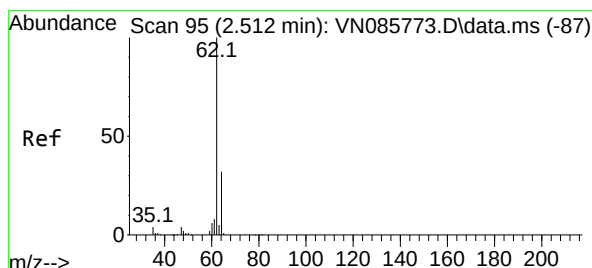
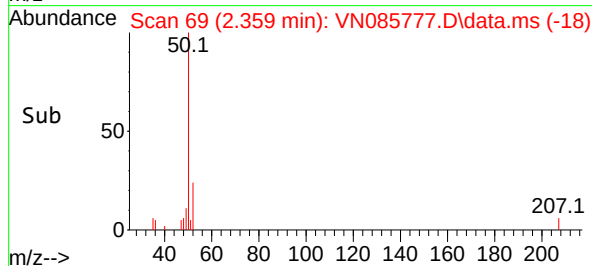
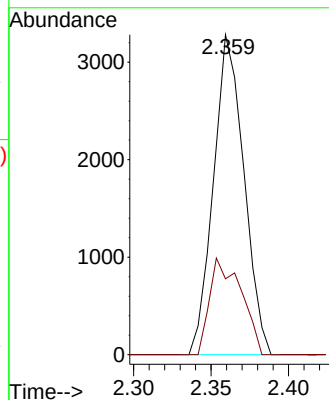
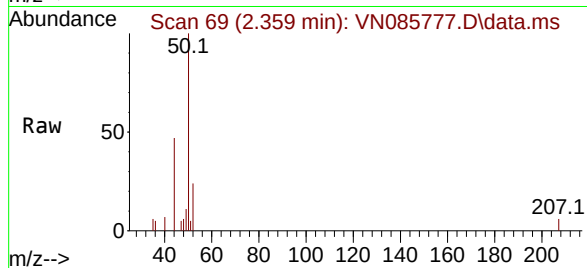
52 23.7 26.7 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#4

Vinyl Chloride

Concen: 1.053 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.006 min

Lab File: VN085777.D

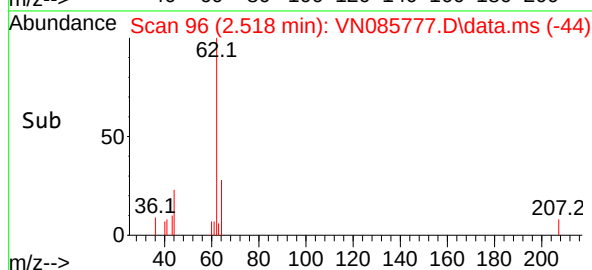
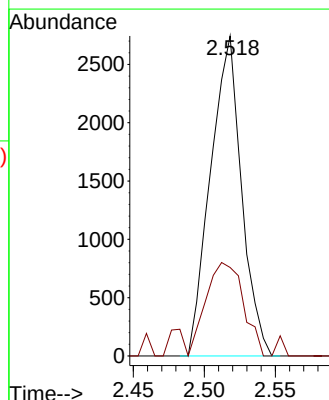
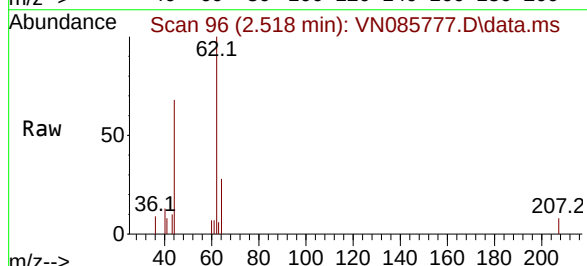
Acq: 18 Feb 2025 13:07

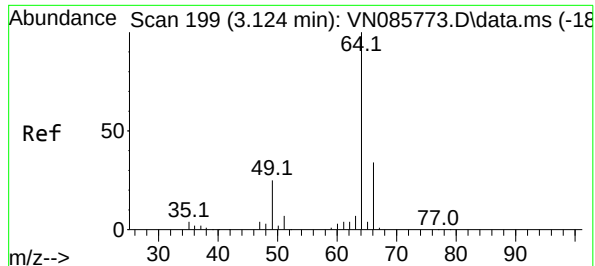
Tgt Ion: 62 Resp: 4169

Ion Ratio Lower Upper

62 100

64 21.4 25.9 38.9





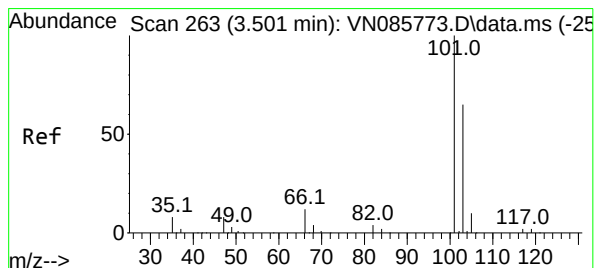
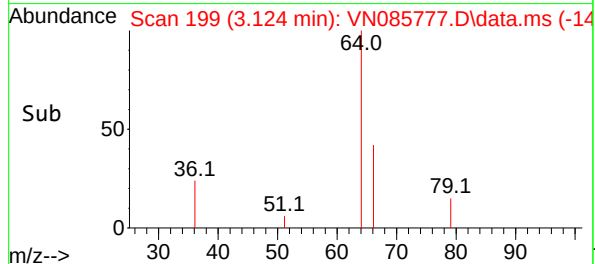
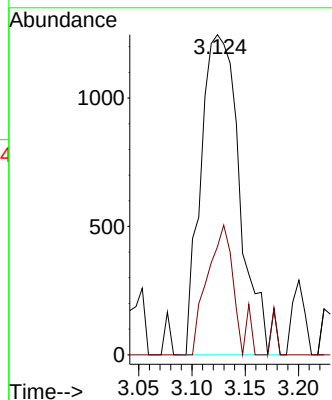
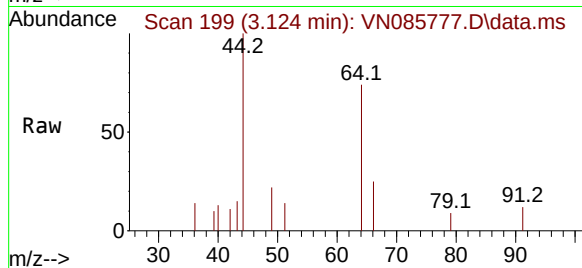
#6
Chloroethane
Concen: 1.220 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
Client Sample Id :
VSTDICC001

Tgt Ion: 64 Resp: 320
Ion Ratio Lower Upper
64 100
66 33.8 27.0 40.6

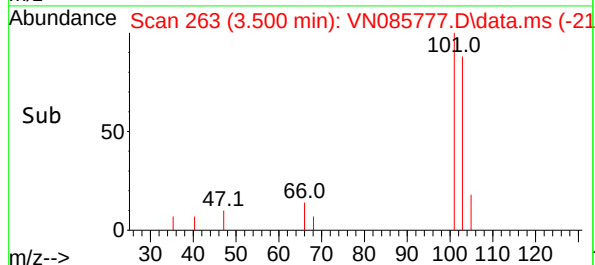
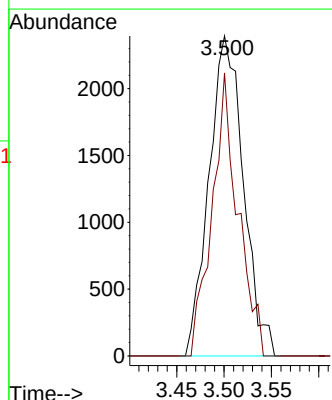
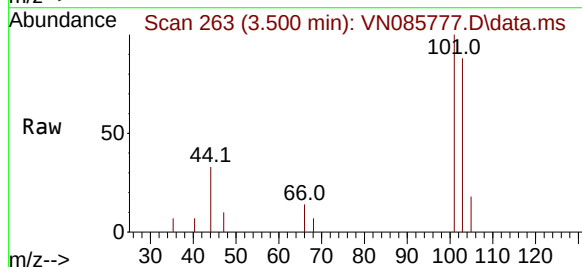
Manual Integrations
APPROVED

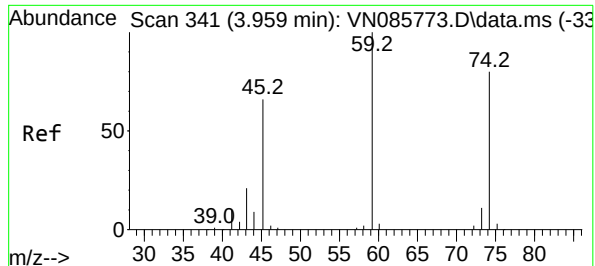
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#7
Trichlorofluoromethane
Concen: 1.055 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion:101 Resp: 6048
Ion Ratio Lower Upper
101 100
103 88.5 52.2 78.4#





#8

Diethyl Ether

Concen: 0.925 ug/l m

RT: 3.965 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 74 Resp: 1710

Ion Ratio Lower Upper

74 100

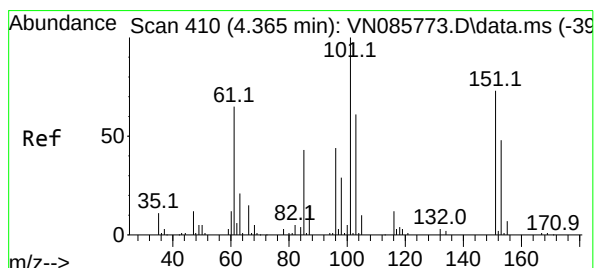
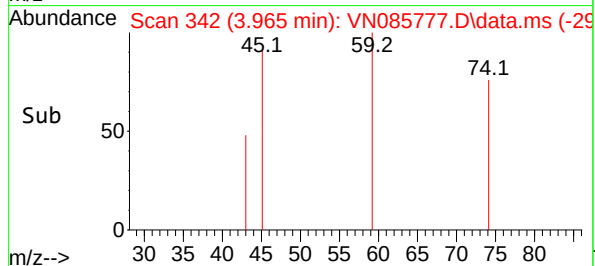
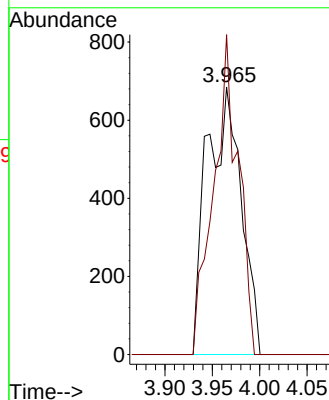
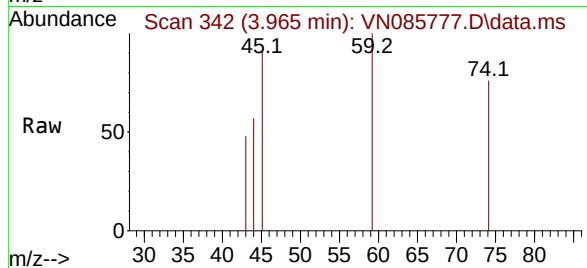
45 86.6 42.5 127.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.915 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

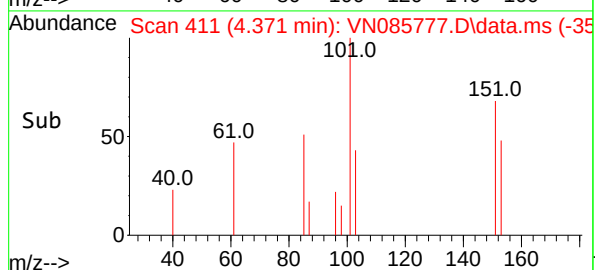
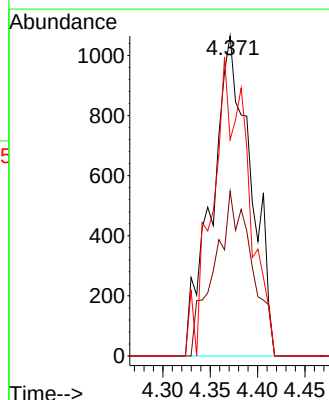
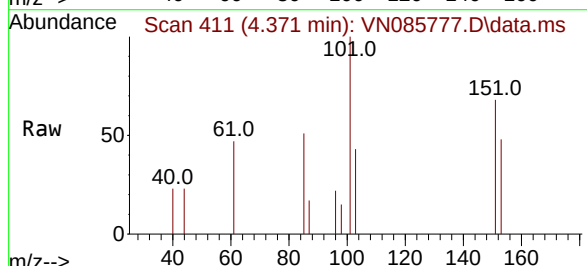
Tgt Ion:101 Resp: 3034

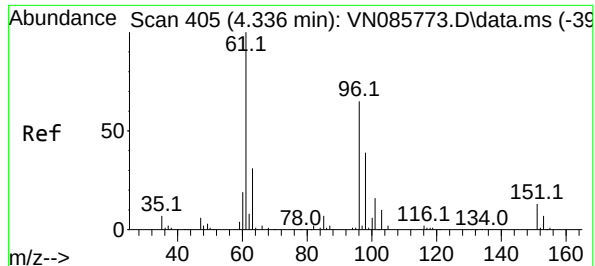
Ion Ratio Lower Upper

101 100

85 50.2 35.7 53.5

151 86.4 61.4 92.2





#12

1,1-Dichloroethene

Concen: 0.937 ug/l

RT: 4.341 min Scan# 405

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 281

Ion Ratio Lower Upper

96 100

61 120.8 123.3 184.9

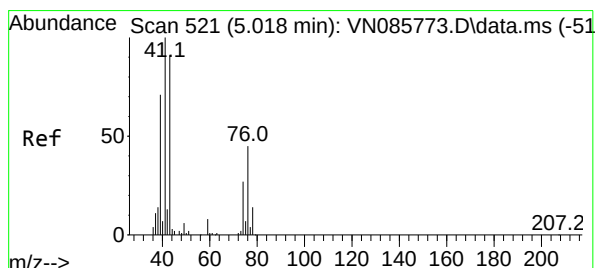
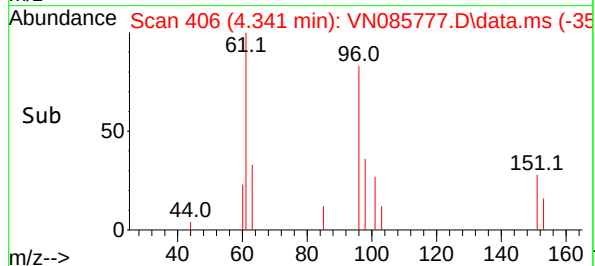
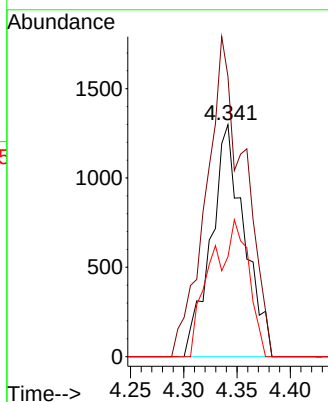
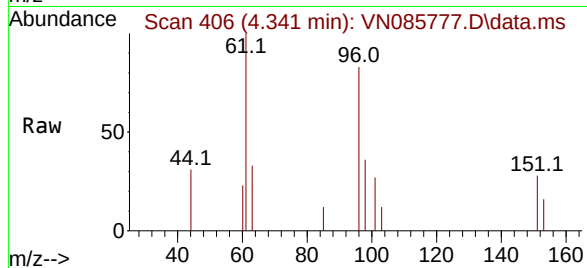
98 43.1 48.6 72.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 0.964 ug/l m

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

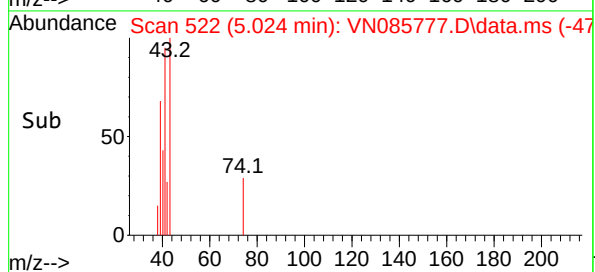
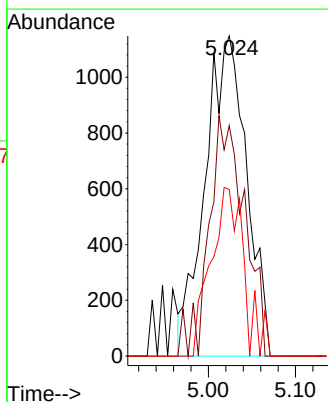
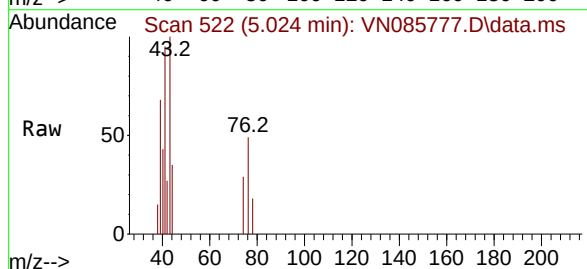
Tgt Ion: 41 Resp: 3802

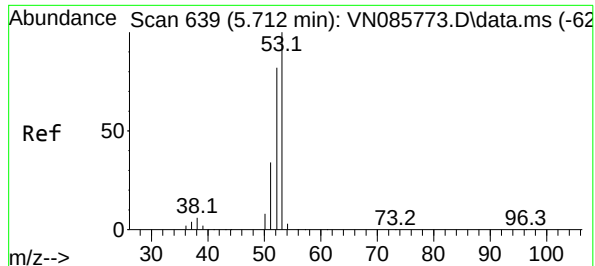
Ion Ratio Lower Upper

41 100

39 62.8 57.4 86.2

76 41.9 36.2 54.2





#15

Acrylonitrile

Concen: 4.913 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

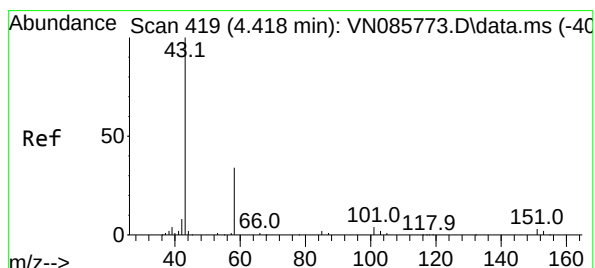
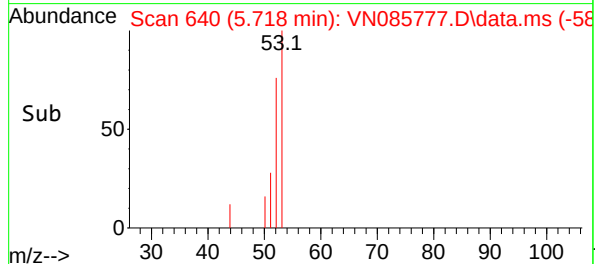
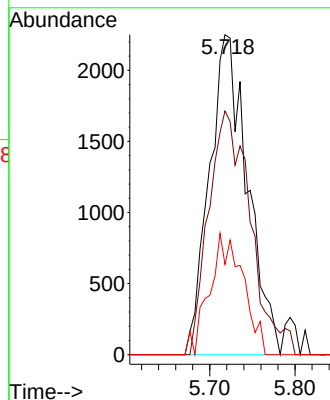
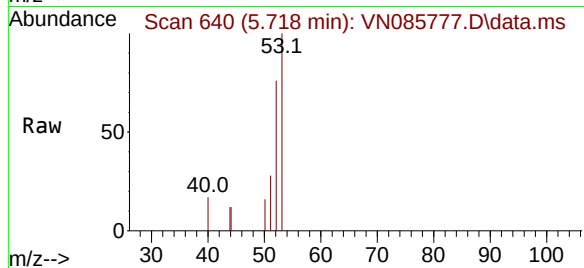
VSTDIC001

Tgt Ion:	53	Resp:	6980
Ion	Ratio	Lower	Upper
53	100		
52	83.6	65.8	98.6
51	33.5	28.6	42.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#16

Acetone

Concen: 5.542 ug/l

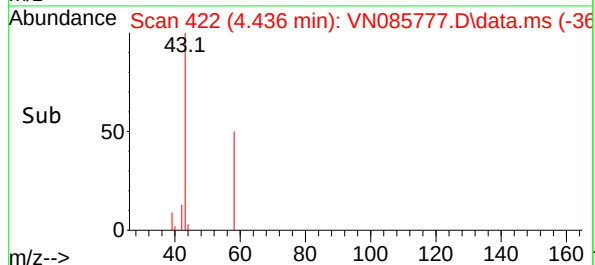
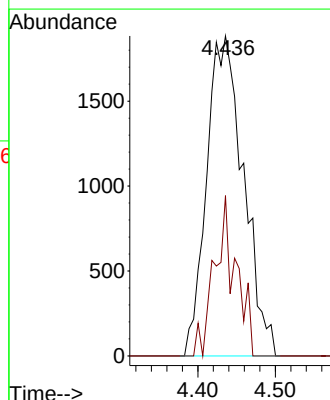
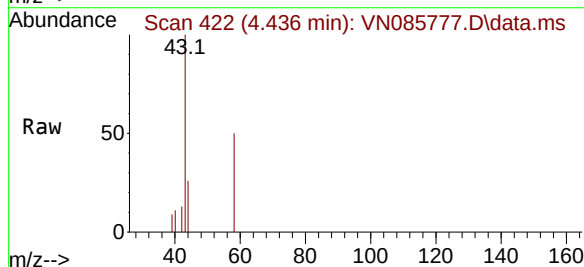
RT: 4.436 min Scan# 422

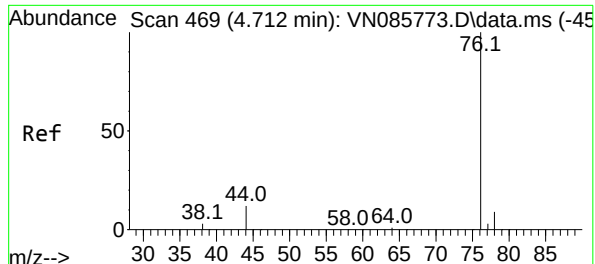
Delta R.T. 0.018 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	43	Resp:	6230
Ion	Ratio	Lower	Upper
43	100		
58	50.1	27.5	41.3#





#17

Carbon Disulfide

Concen: 1.137 ug/l

RT: 4.712 min Scan# 40

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 1013

Ion Ratio Lower Upper

76 100

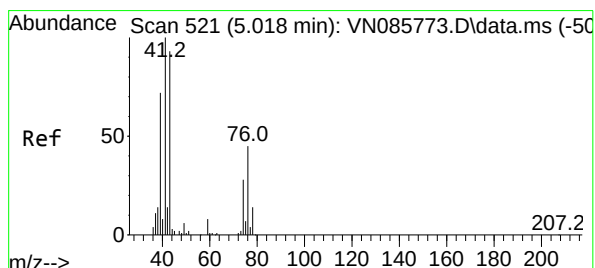
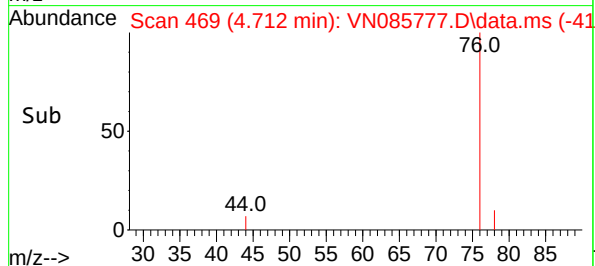
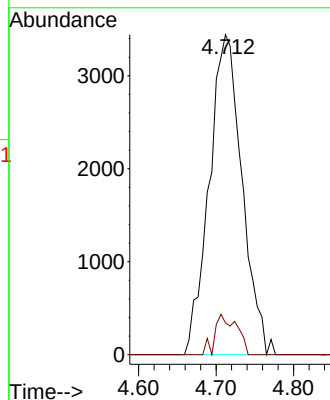
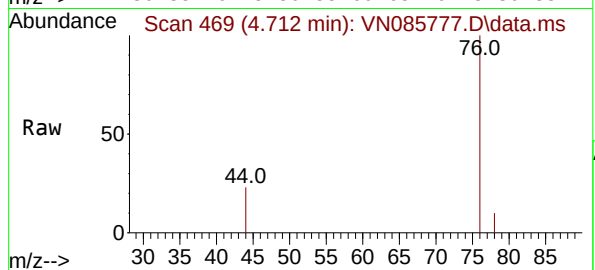
78 10.0 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#18

Methyl Acetate

Concen: 1.210 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085777.D

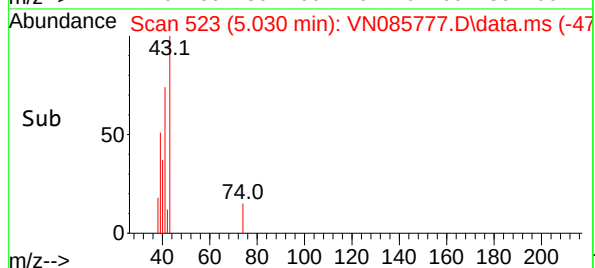
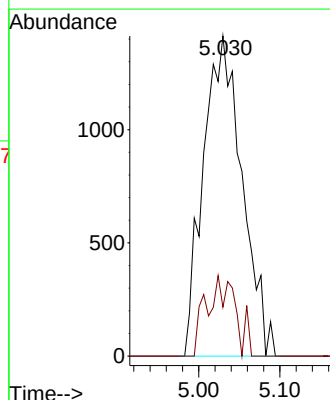
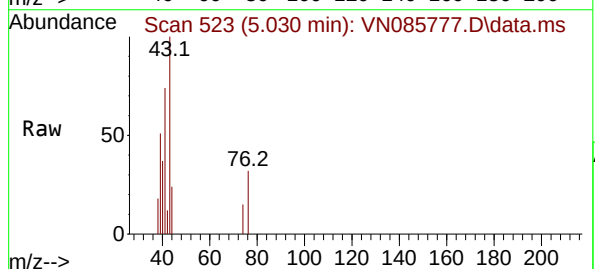
Acq: 18 Feb 2025 13:07

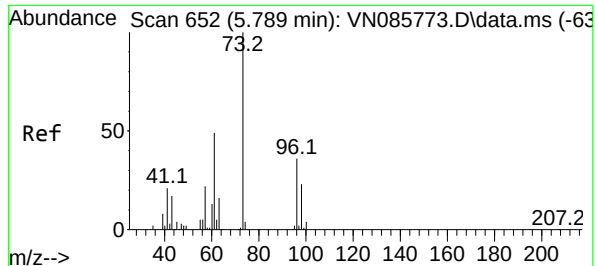
Tgt Ion: 43 Resp: 4677

Ion Ratio Lower Upper

43 100

74 2.5 22.2 33.4#





#19

Methyl tert-butyl Ether

Concen: 0.883 ug/l

RT: 5.794 min Scan# 653

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 788

Ion Ratio Lower Upper

73 100

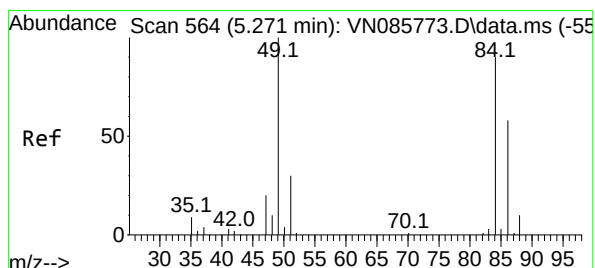
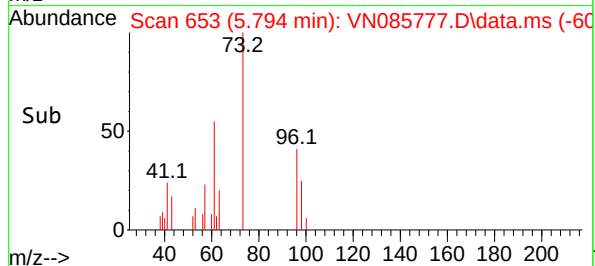
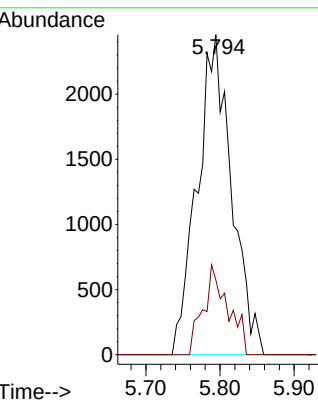
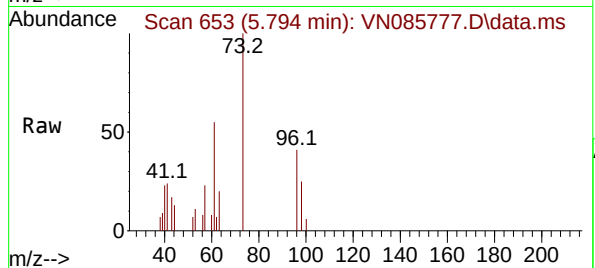
57 23.4 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#20

Methylene Chloride

Concen: 1.116 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion: 84 Resp: 4036

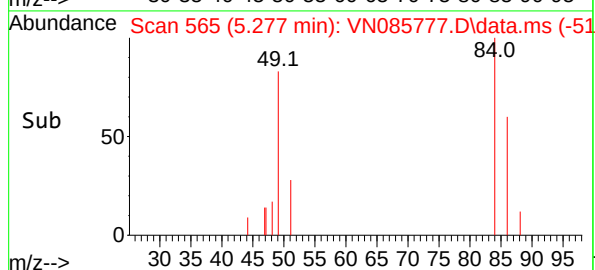
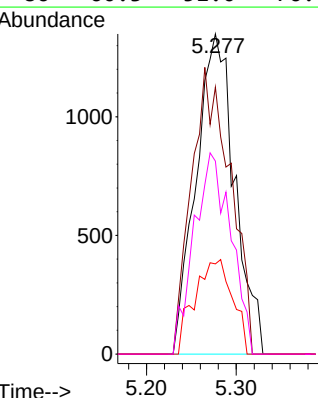
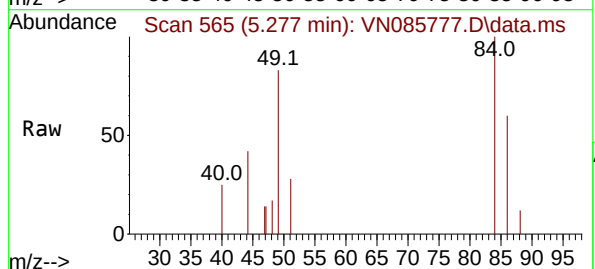
Ion Ratio Lower Upper

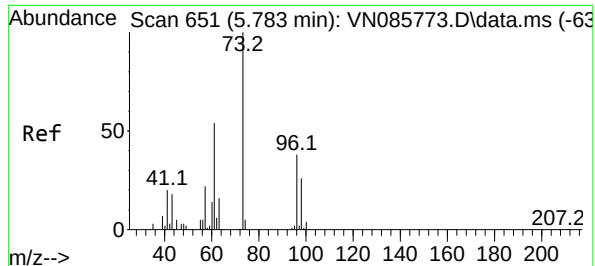
84 100

49 83.4 88.4 132.6#

51 28.2 26.6 40.0

86 60.3 51.0 76.6





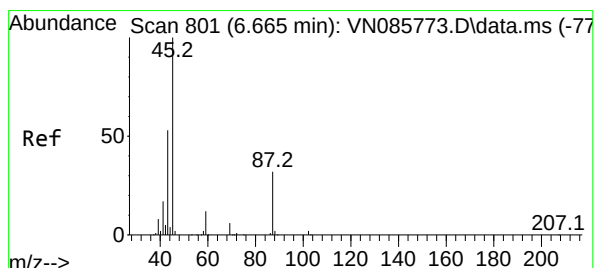
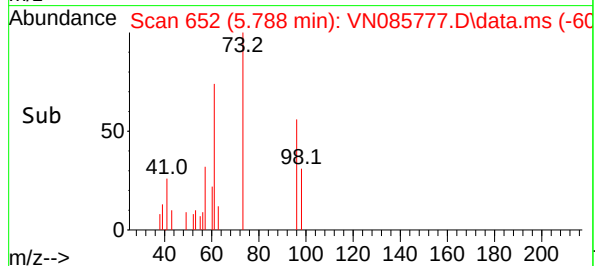
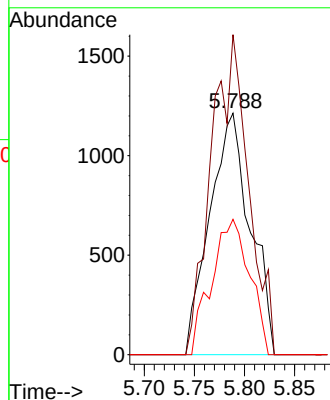
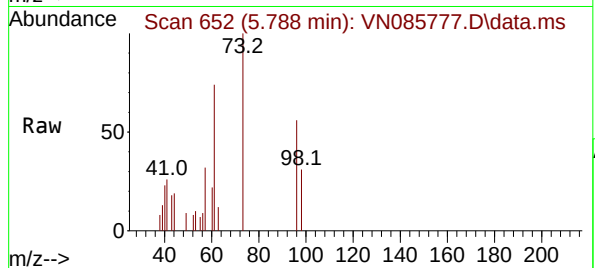
#21
trans-1,2-Dichloroethene
Concen: 1.055 ug/l
RT: 5.788 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 341
Ion Ratio Lower Upper
96 100
61 132.6 112.6 168.8
98 56.1 53.3 79.9

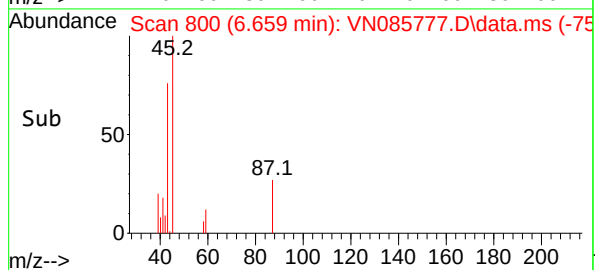
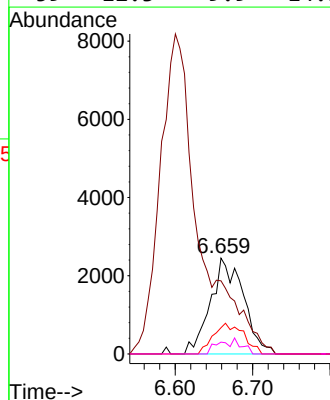
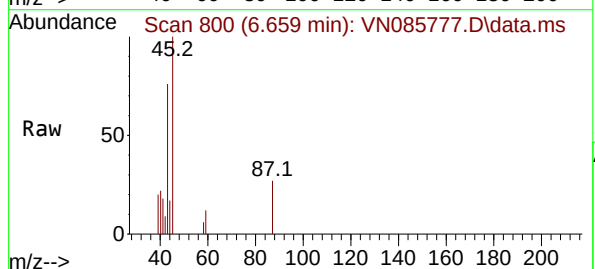
Manual Integrations
APPROVED

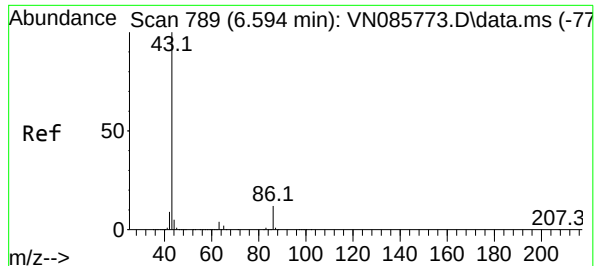
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 0.815 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 45 Resp: 7268
Ion Ratio Lower Upper
45 100
43 76.2 42.6 64.0#
87 27.4 25.8 38.8
59 12.3 9.9 14.9





#23

Vinyl Acetate

Concen: 4.498 ug/l m

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 27370

Ion Ratio Lower Upper

43 100

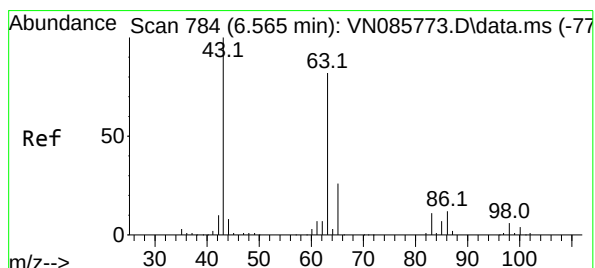
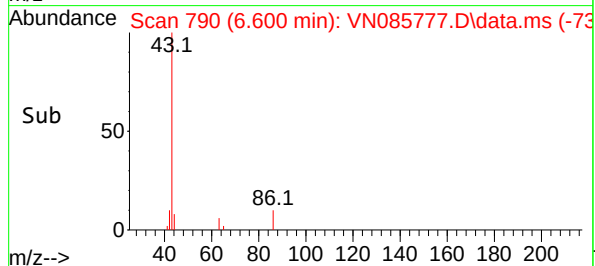
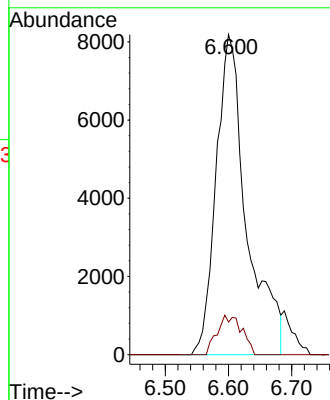
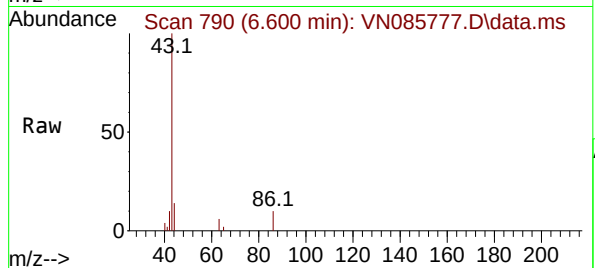
86 10.2 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#24

1,1-Dichloroethane

Concen: 0.970 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

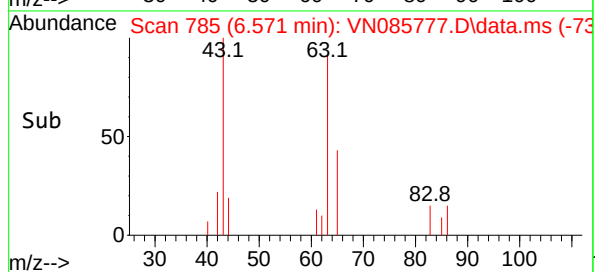
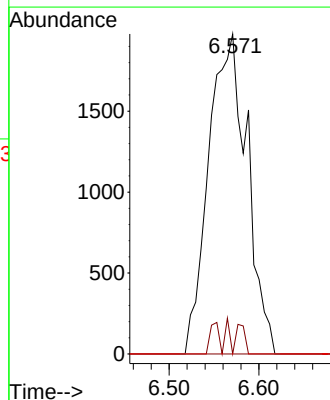
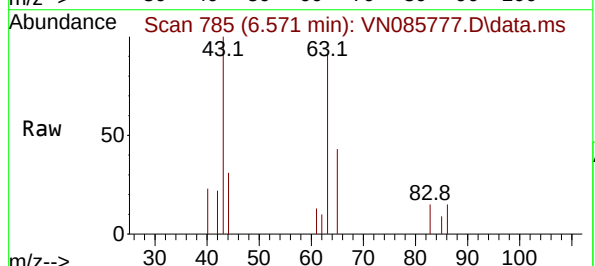
Tgt Ion: 63 Resp: 5881

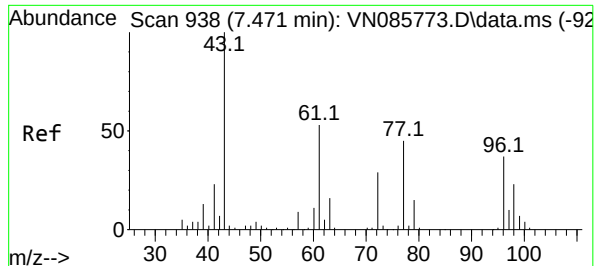
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.4 7.2#





#25

2-Butanone

Concen: 4.630 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 765

Ion Ratio Lower Upper

43 100

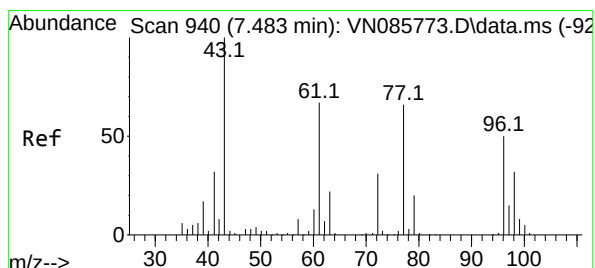
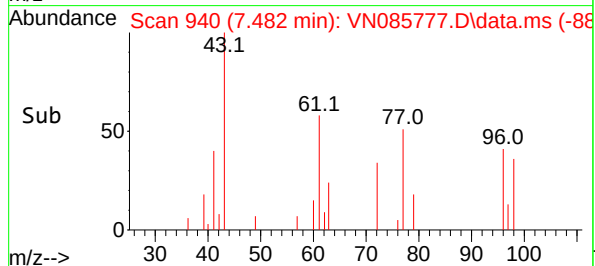
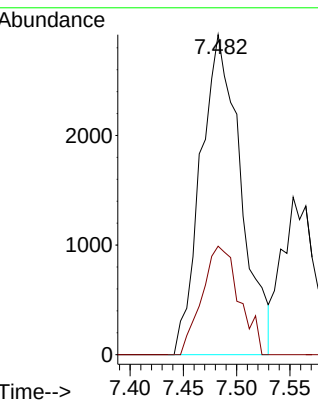
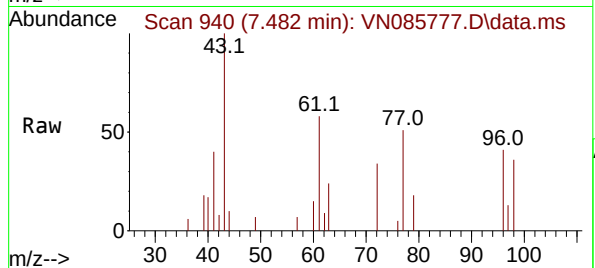
72 33.9 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#26

2,2-Dichloropropane

Concen: 0.959 ug/l m

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN085777.D

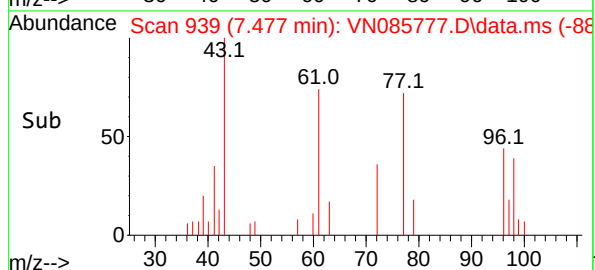
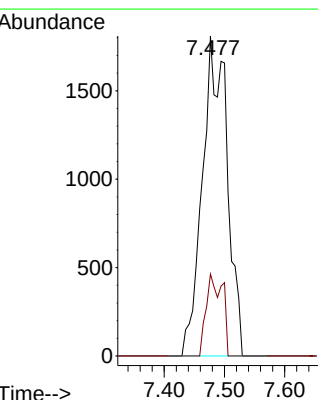
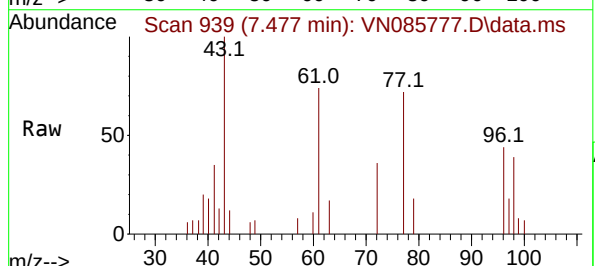
Acq: 18 Feb 2025 13:07

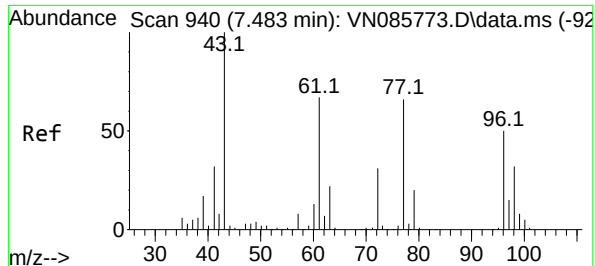
Tgt Ion: 77 Resp: 5170

Ion Ratio Lower Upper

77 100

97 16.8 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 0.944 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 354

Ion Ratio Lower Upper

96 100

61 151.4 0.0 280.6

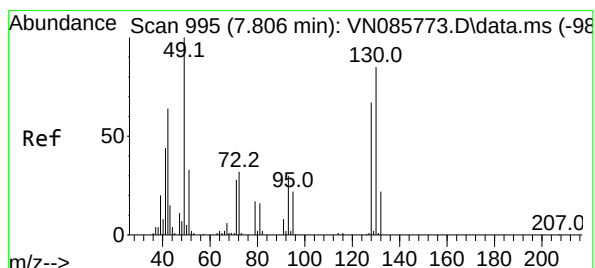
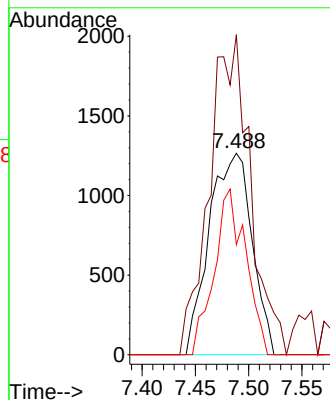
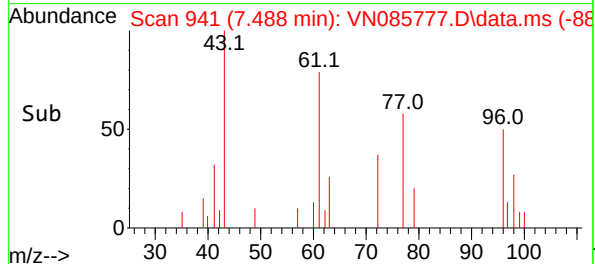
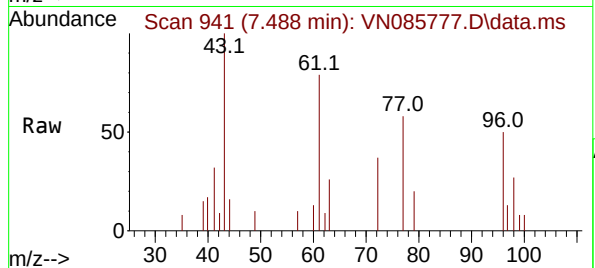
98 60.5 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 1.063 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

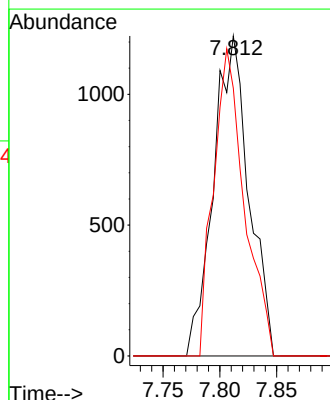
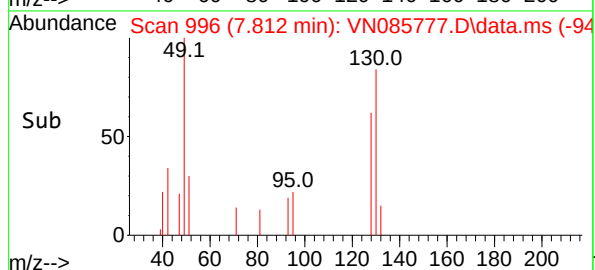
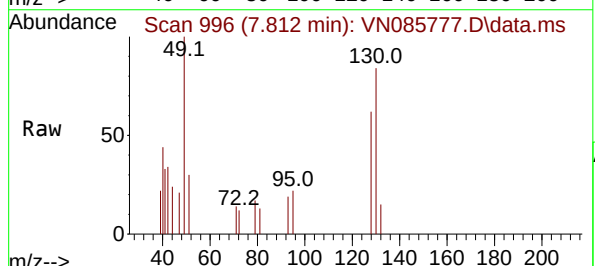
Tgt Ion: 49 Resp: 2649

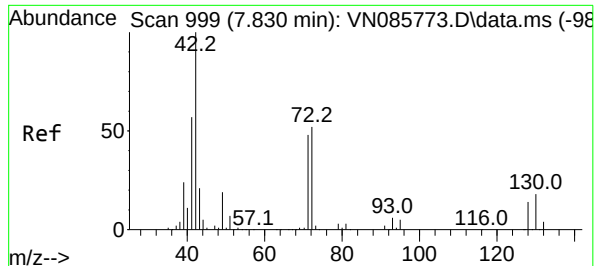
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 83.6 68.0 102.0





#29

Tetrahydrofuran

Concen: 4.276 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

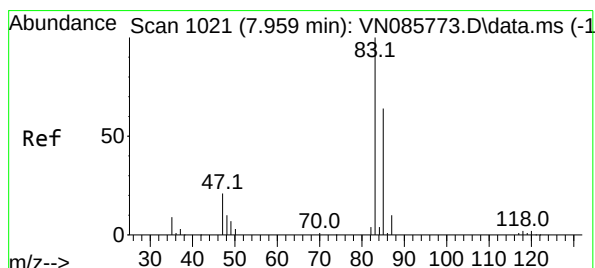
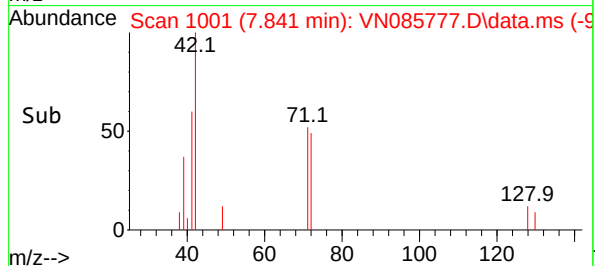
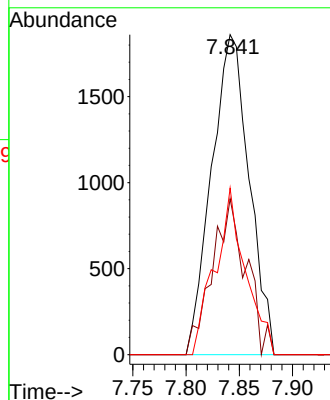
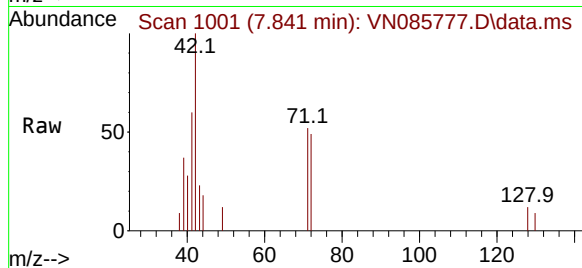
VSTDIC001

Tgt Ion:	42	Resp:	456
Ion	Ratio	Lower	Upper
42	100		
72	44.3	40.0	60.0
71	42.4	37.0	55.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 1.013 ug/l

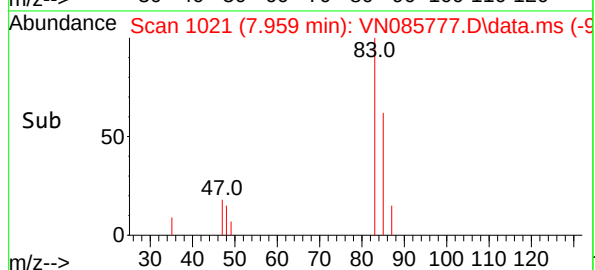
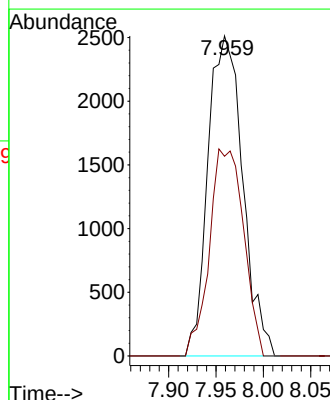
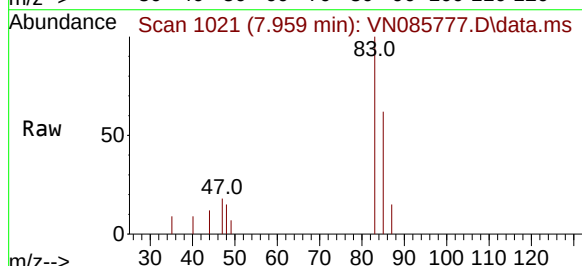
RT: 7.959 min Scan# 1021

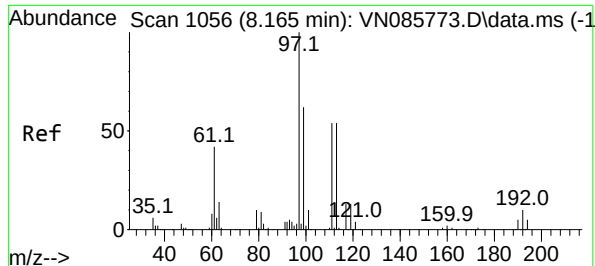
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	83	Resp:	6416
Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.9	76.3





#32

1,1,1-Trichloroethane

Concen: 1.002 ug/l

RT: 8.159 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

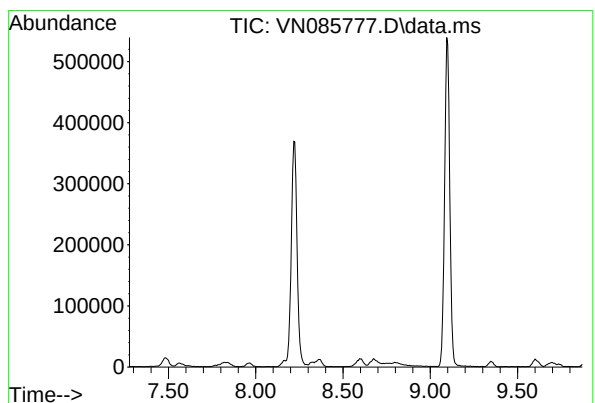
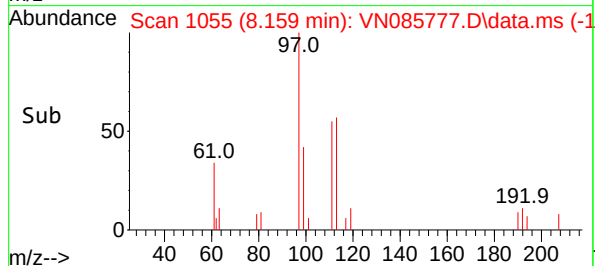
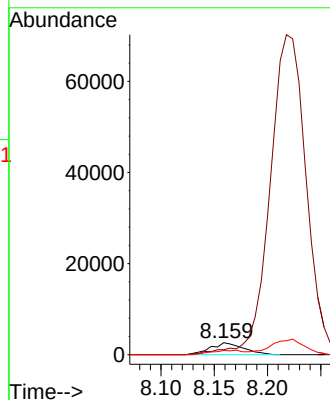
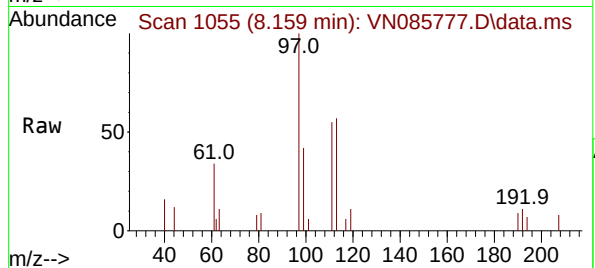
Tgt Ion:	97	Resp:	564
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.4	75.6
61	36.6	35.5	53.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#33

1,2-Dichloroethane-d4

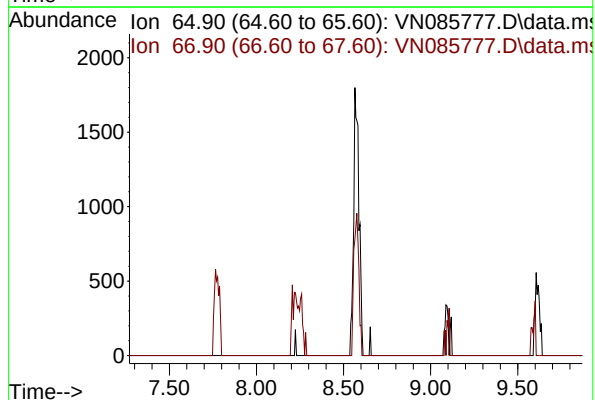
Concen: 0.000 ug/l

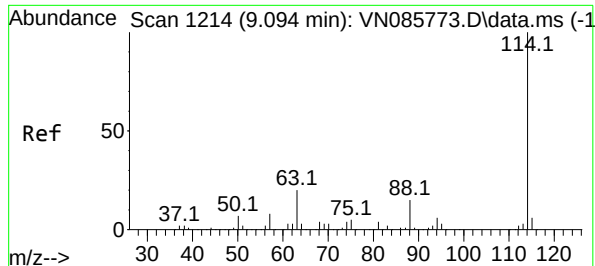
Expected RT: 8.57 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	65
Sig	Exp Ratio
65	100
67	53.1





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 47645

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.2

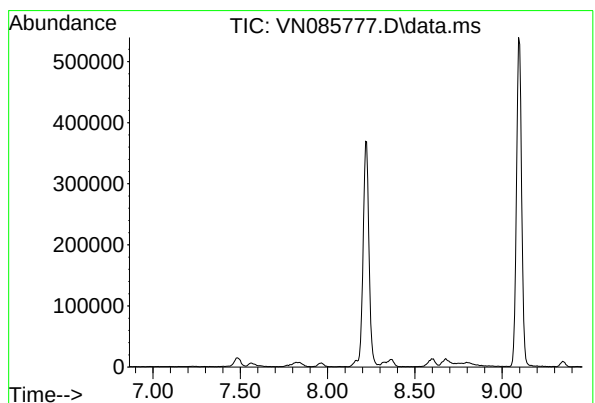
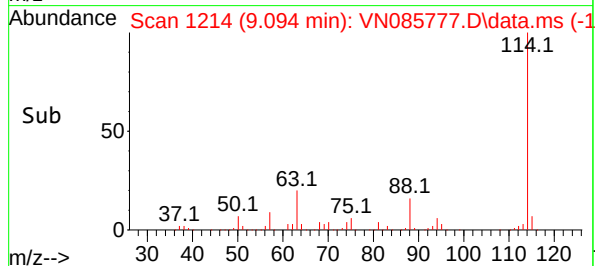
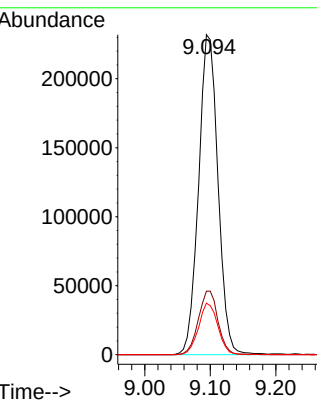
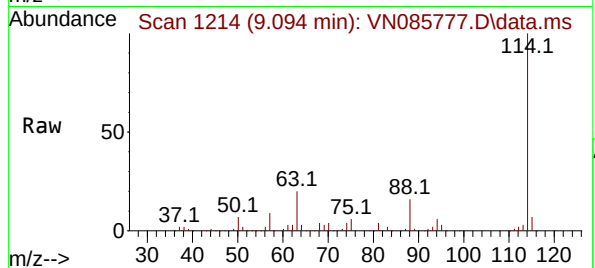
88 16.1 0.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 8.16 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

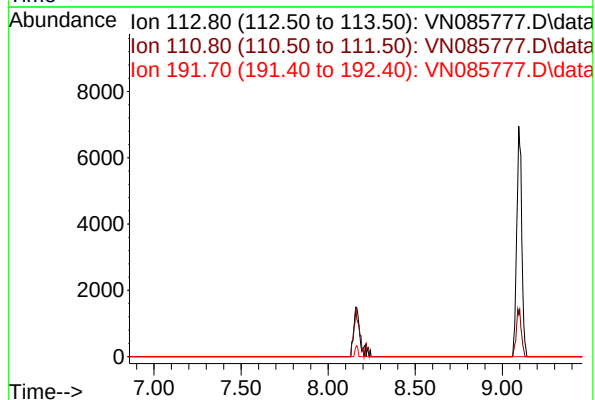
Tgt Ion: 113

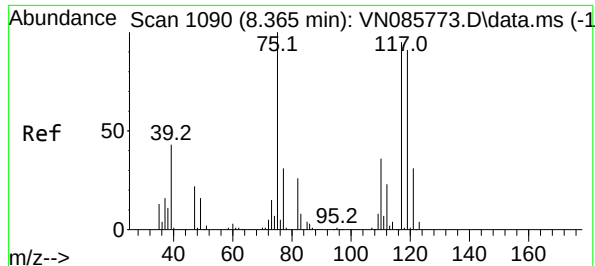
Sig Exp Ratio

113 100

111 102.8

192 18.4





#36

1,1-Dichloropropene

Concen: 0.919 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

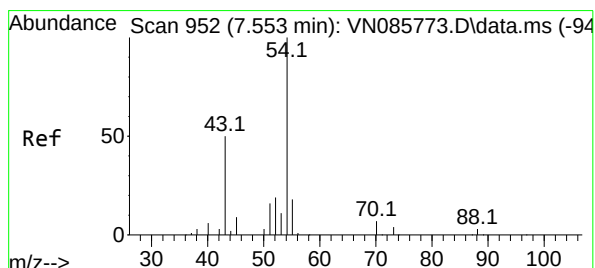
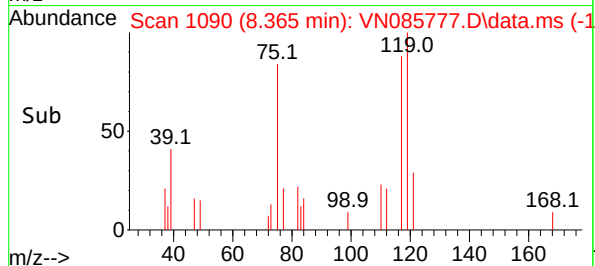
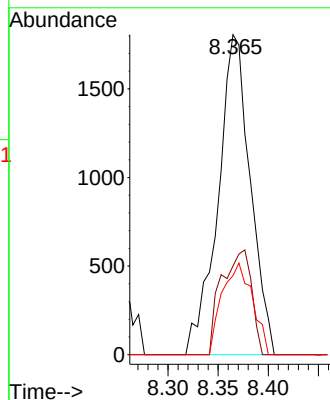
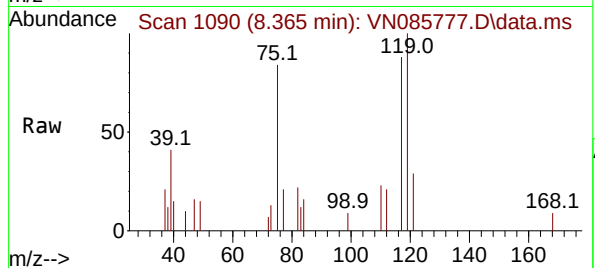
Tgt Ion:	75	Resp:	405
Ion	Ratio	Lower	Upper
75	100		
110	30.3	17.3	52.0
77	26.7	24.6	37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#37

Ethyl Acetate

Concen: 0.927 ug/l

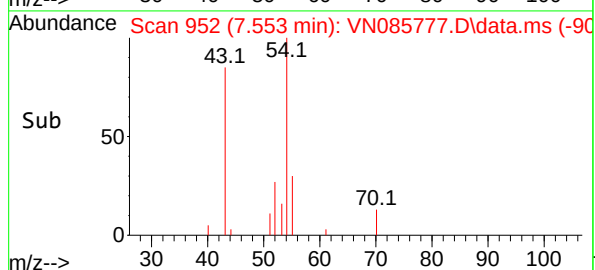
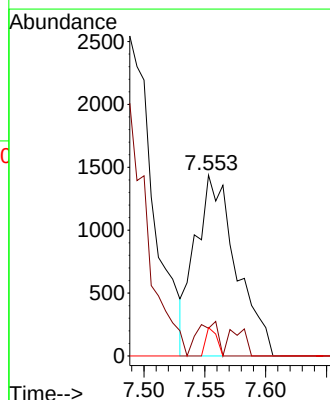
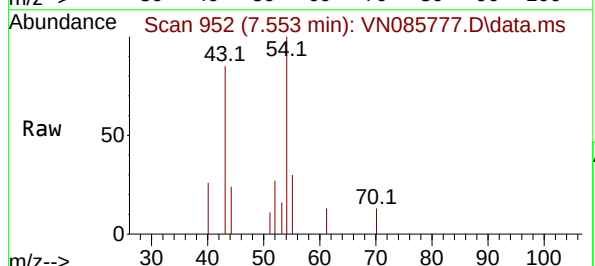
RT: 7.553 min Scan# 952

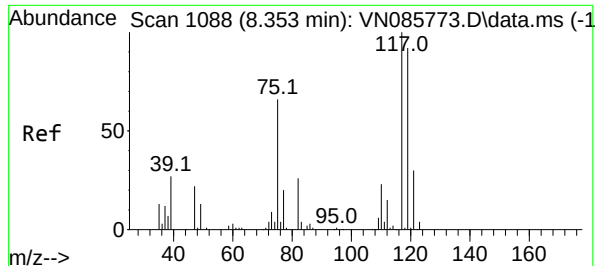
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	43	Resp:	3365
Ion	Ratio	Lower	Upper
43	100		
61	9.5	12.2	18.2#
70	4.2	9.5	14.3#





#38

Carbon Tetrachloride

Concen: 0.969 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

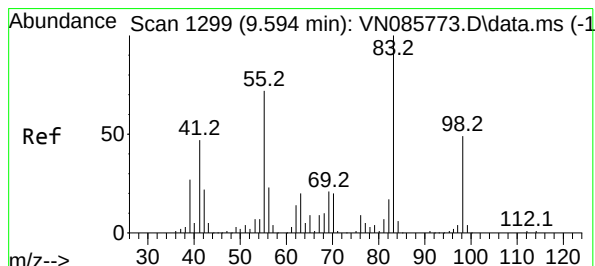
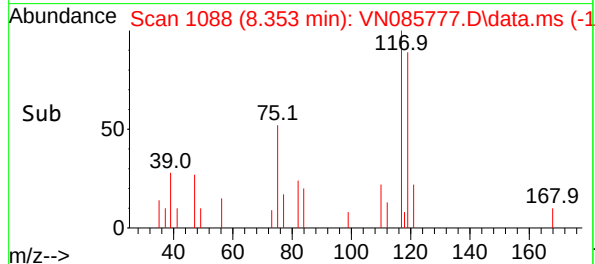
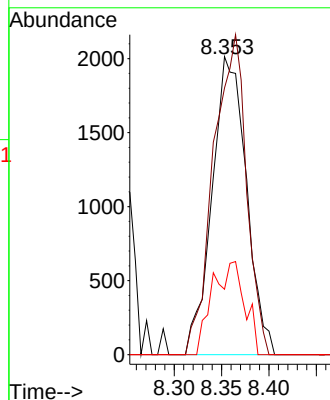
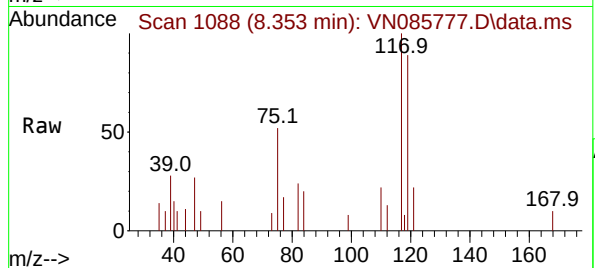
Tgt Ion:	117	Resp:	5079
Ion	Ratio	Lower	Upper
117	100		
119	89.5	73.8	110.6
121	21.9	24.3	36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#39

Methylcyclohexane

Concen: 0.821 ug/l

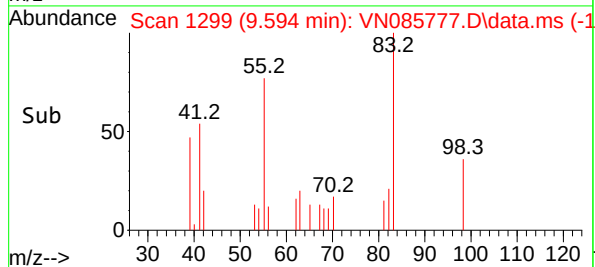
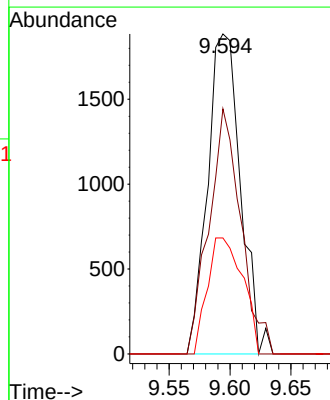
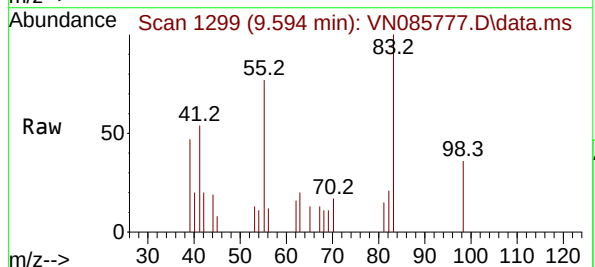
RT: 9.594 min Scan# 1299

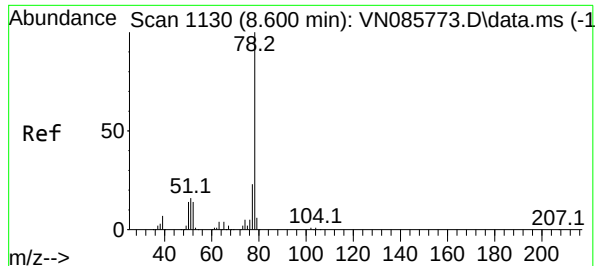
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	83	Resp:	3557
Ion	Ratio	Lower	Upper
83	100		
55	76.6	57.5	86.3
98	36.2	39.2	58.8





#40

Benzene

Concen: 0.957 ug/l

RT: 8.606 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 1353

Ion Ratio Lower Upper

78 100

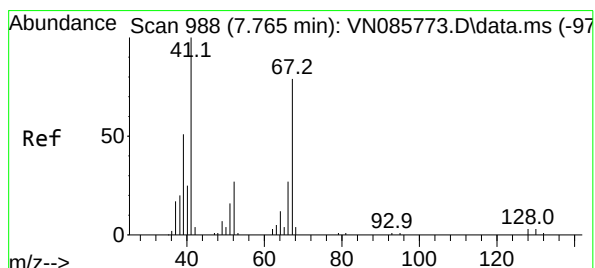
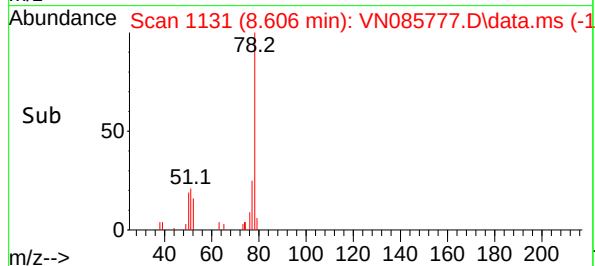
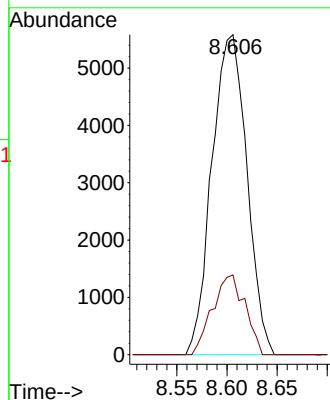
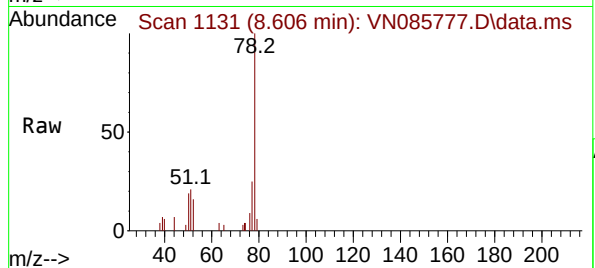
77 24.9 18.3 27.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#41

Methacrylonitrile

Concen: 0.810 ug/l

RT: 7.771 min Scan# 989

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion: 41 Resp: 1573

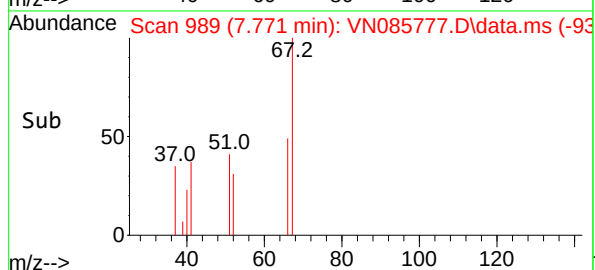
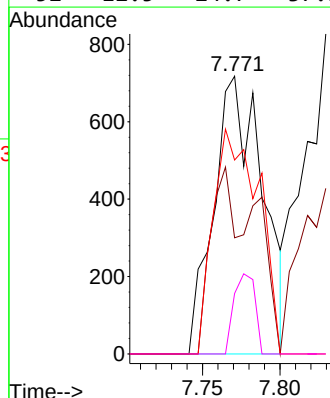
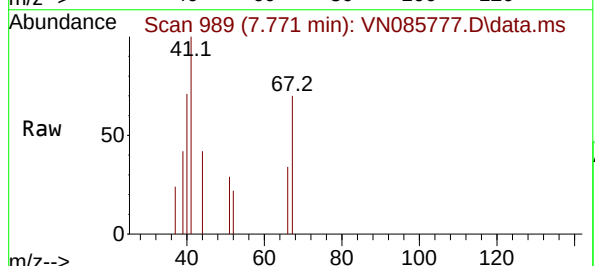
Ion Ratio Lower Upper

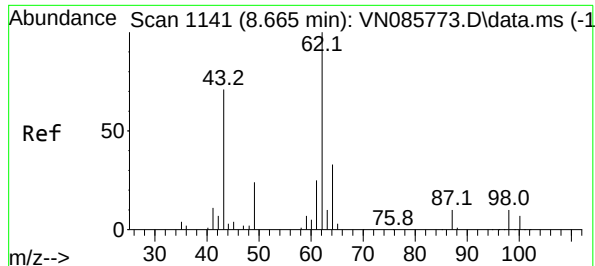
41 100

39 39.4 42.0 63.0#

67 75.6 64.2 96.4

52 12.5 24.7 37.1#





#42

1,2-Dichloroethane

Concen: 0.976 ug/l

RT: 8.671 min Scan# 1141

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 449

Ion Ratio Lower Upper

62 100

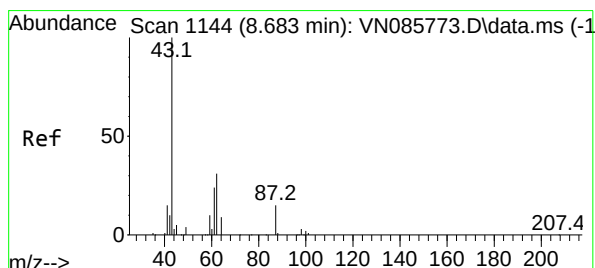
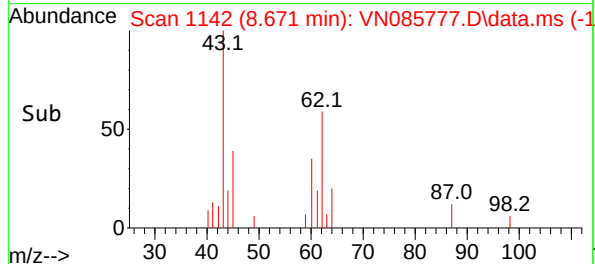
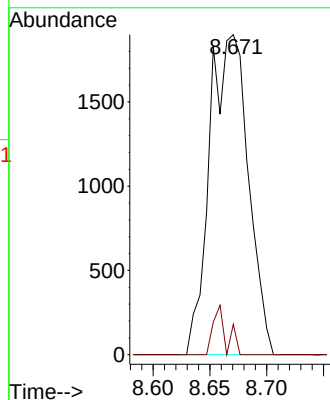
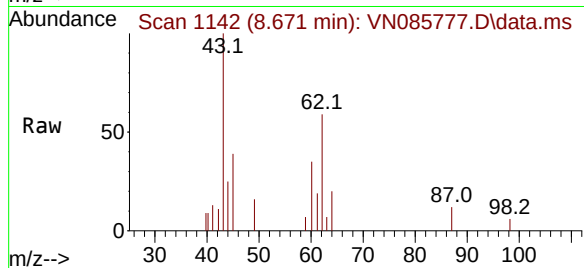
98 5.2 0.0 19.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#43

Isopropyl Acetate

Concen: 1.494 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

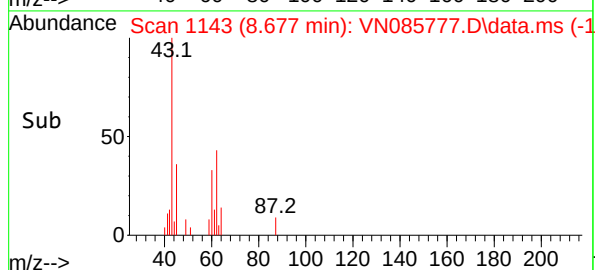
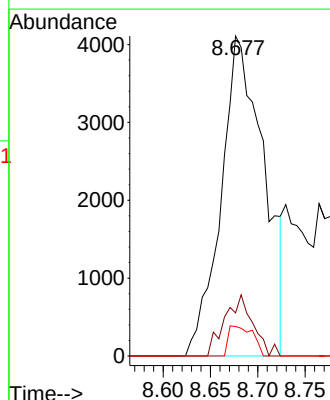
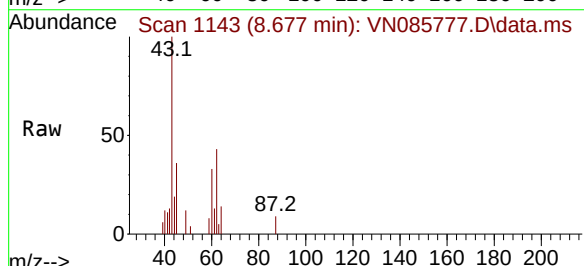
Tgt Ion: 43 Resp: 12901

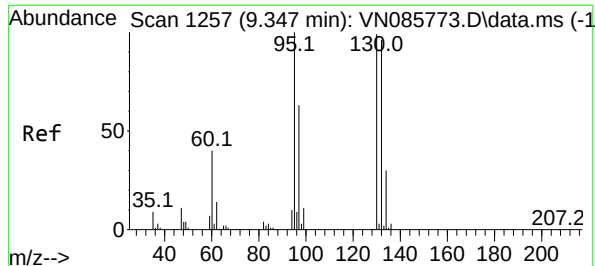
Ion Ratio Lower Upper

43 100

61 12.7 22.6 34.0#

87 5.3 11.8 17.8#





#44

Trichloroethene

Concen: 1.085 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:130 Resp: 3768

Ion Ratio Lower Upper

130 100

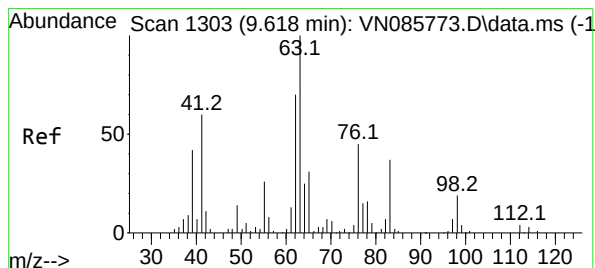
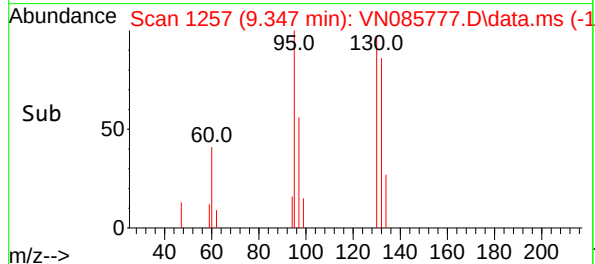
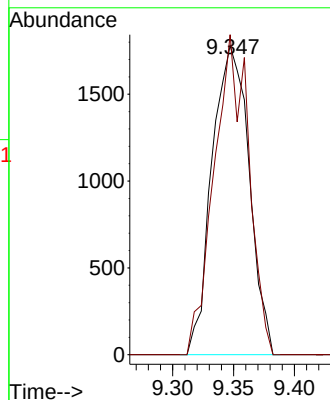
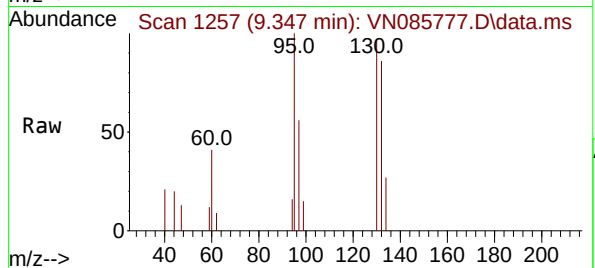
95 103.6 0.0 202.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#45

1,2-Dichloropropane

Concen: 0.948 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085777.D

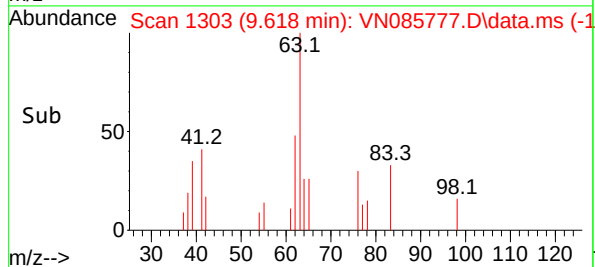
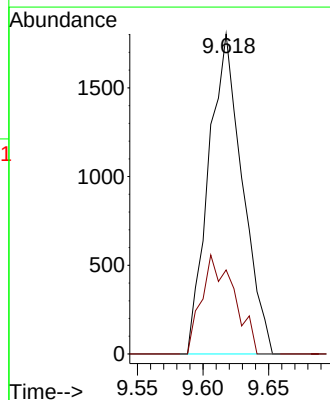
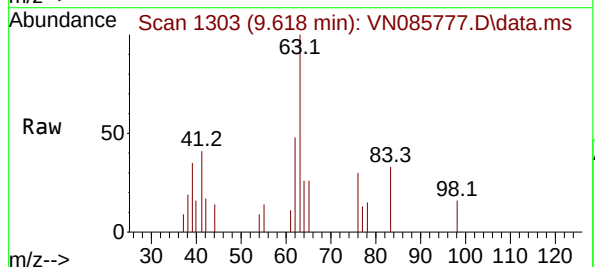
Acq: 18 Feb 2025 13:07

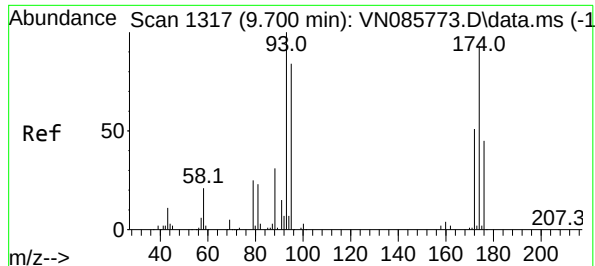
Tgt Ion: 63 Resp: 3235

Ion Ratio Lower Upper

63 100

65 26.3 25.1 37.7





#46

Dibromomethane

Concen: 0.957 ug/l

RT: 9.706 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

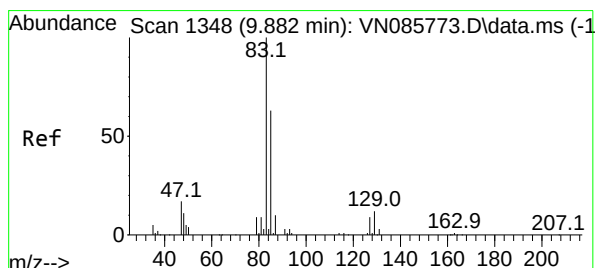
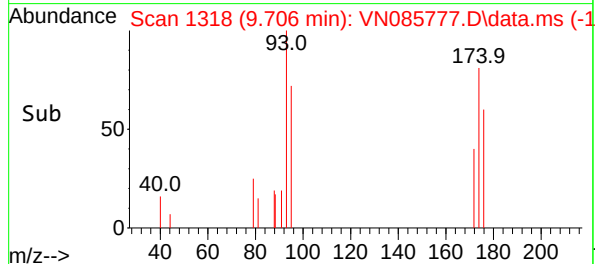
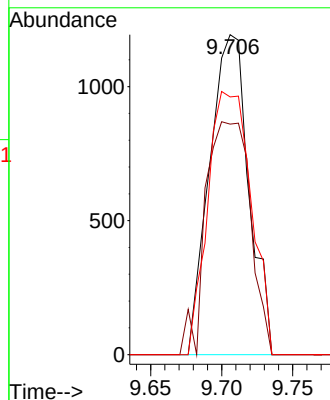
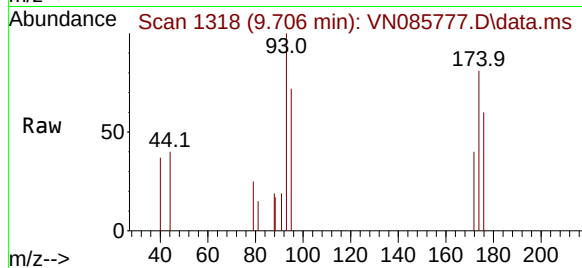
VSTDIC001

Tgt Ion:	93	Resp:	2304
Ion	Ratio	Lower	Upper
93	100		
95	82.3	66.7	100.1
174	90.5	77.2	115.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#47

Bromodichloromethane

Concen: 0.947 ug/l

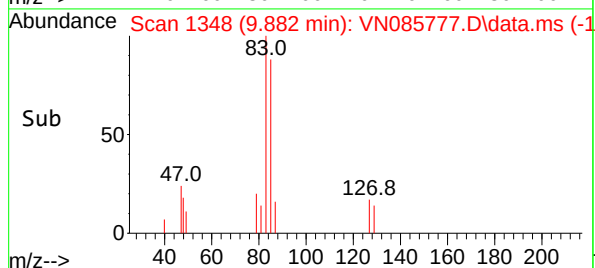
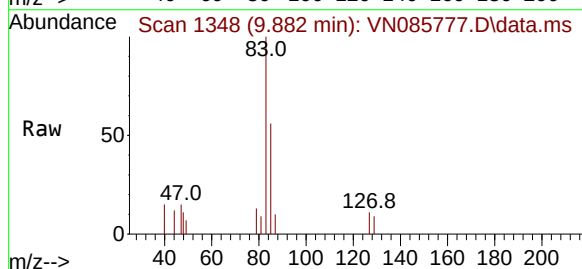
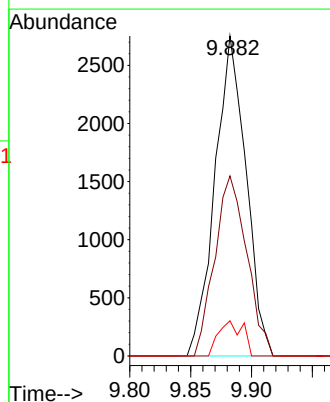
RT: 9.882 min Scan# 1348

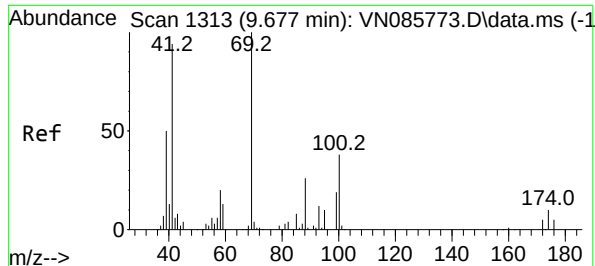
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	83	Resp:	4879
Ion	Ratio	Lower	Upper
83	100		
85	56.2	50.5	75.7
127	11.0	7.2	10.8





#48

Methyl methacrylate

Concen: 0.833 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

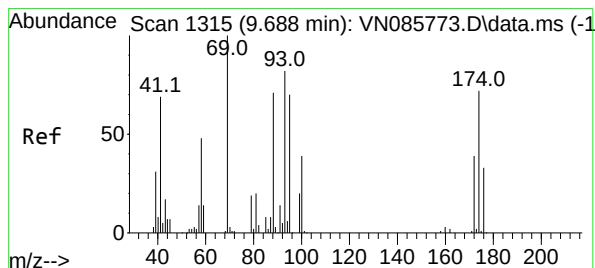
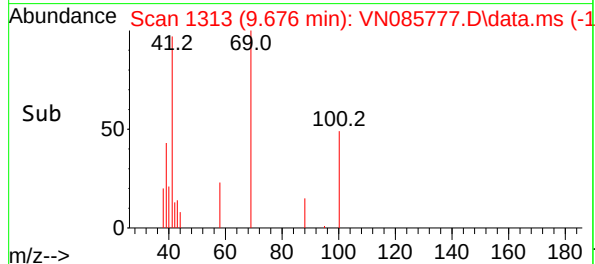
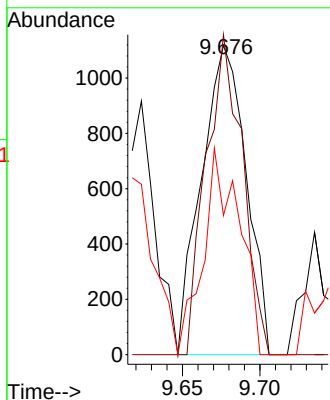
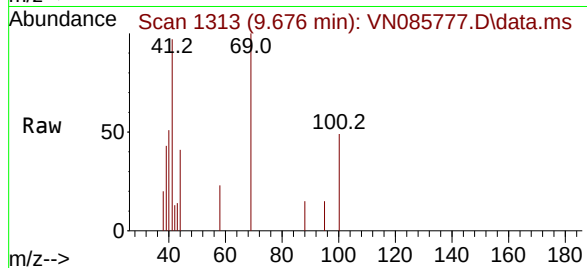
VSTDIC001

Tgt Ion:	41	Resp:	224
Ion	Ratio	Lower	Upper
41	100		
69	83.9	76.0	114.0
39	53.9	42.3	63.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#49

1,4-Dioxane

Concen: 19.344 ug/l

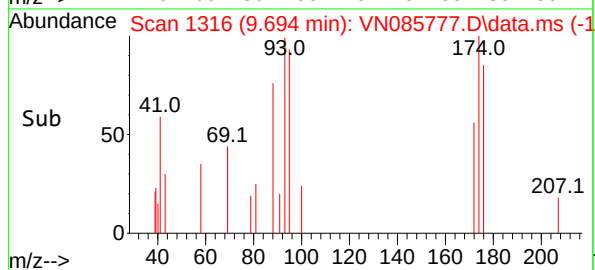
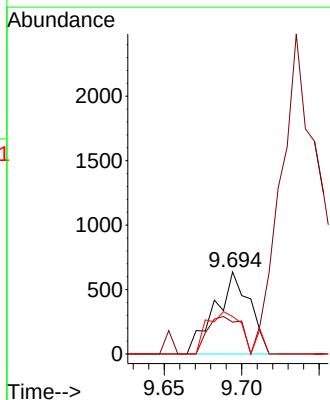
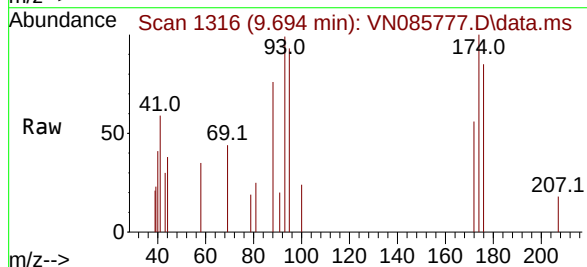
RT: 9.694 min Scan# 1316

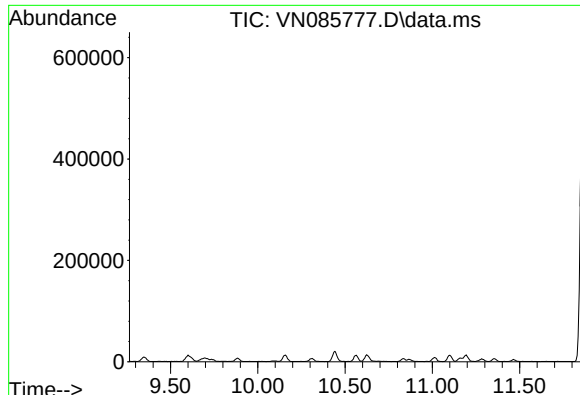
Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	88	Resp:	992
Ion	Ratio	Lower	Upper
88	100		
43	43.8	18.6	27.8#
58	55.7	56.7	85.1#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.56 min

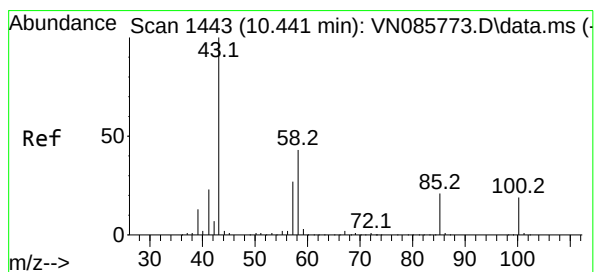
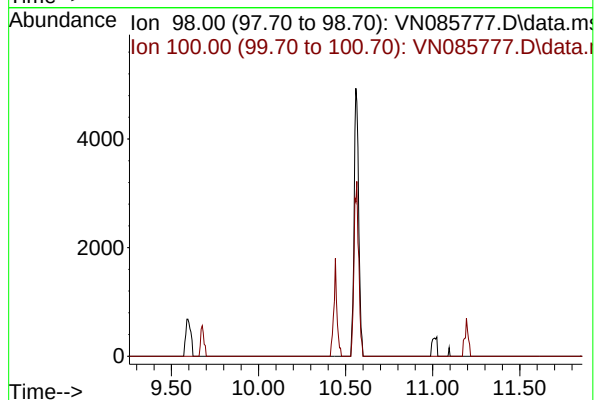
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

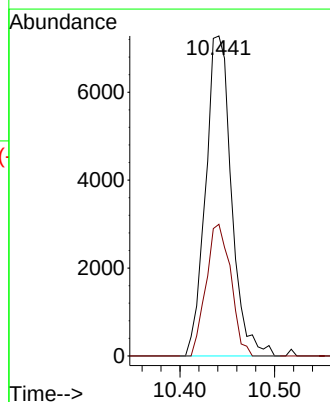
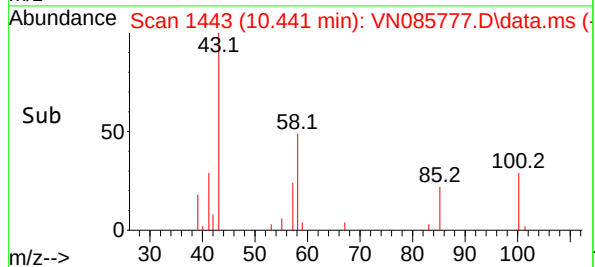
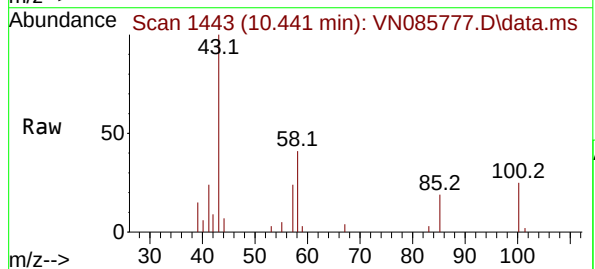
Manual Integrations
APPROVED

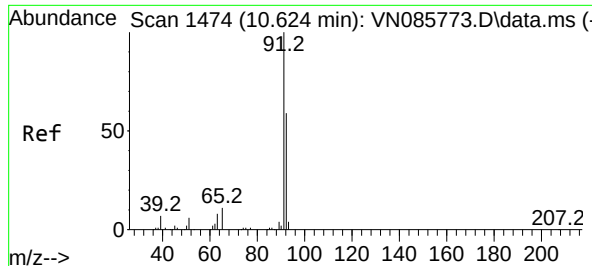
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#51
4-Methyl-2-Pentanone
Concen: 3.951 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 43 Resp: 13832
Ion Ratio Lower Upper
43 100
58 39.3 34.6 52.0





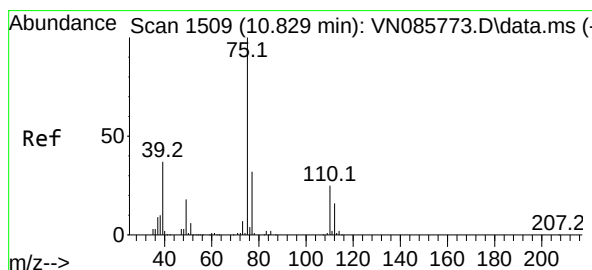
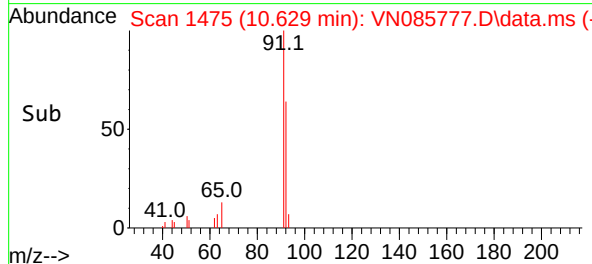
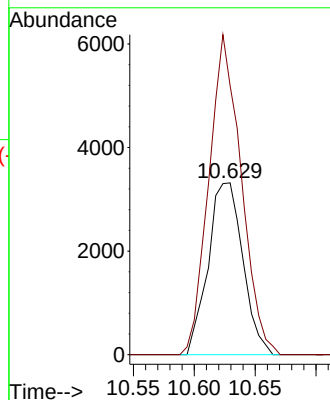
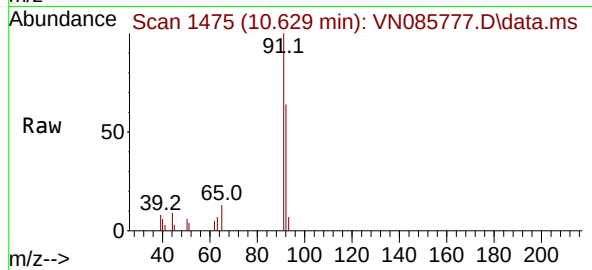
#52
Toluene
Concen: 0.792 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 92 Resp: 6568
Ion Ratio Lower Upper
92 100
91 173.8 136.9 205.3

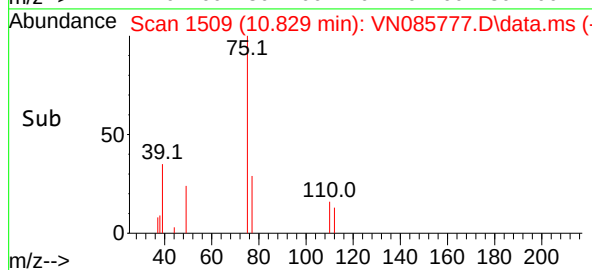
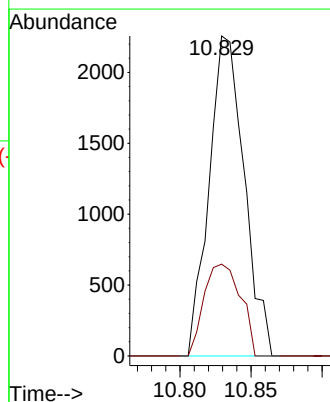
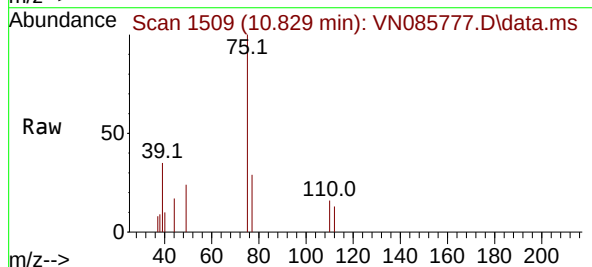
Manual Integrations
APPROVED

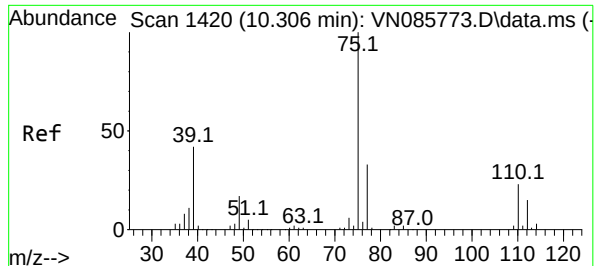
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#53
t-1,3-Dichloropropene
Concen: 0.815 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

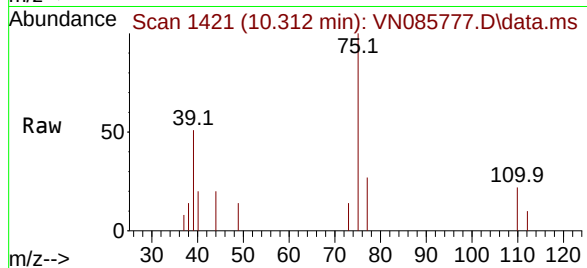
Tgt Ion: 75 Resp: 3884
Ion Ratio Lower Upper
75 100
77 28.7 25.4 38.0





#54
cis-1,3-Dichloropropene
Concen: 0.806 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

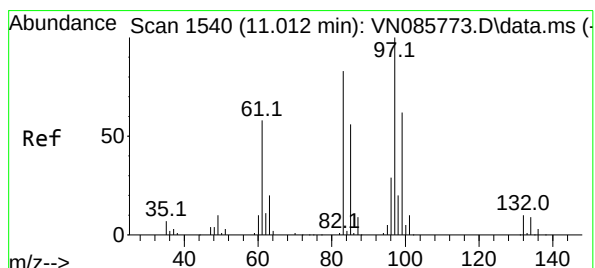
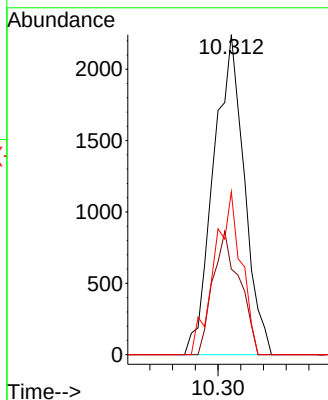
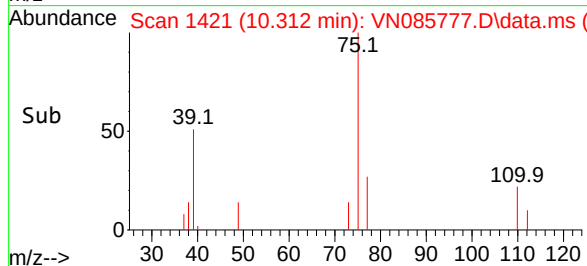
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 421
Ion Ratio Lower Upper
75 100
77 26.8 26.1 39.1
39 50.9 33.4 50.0

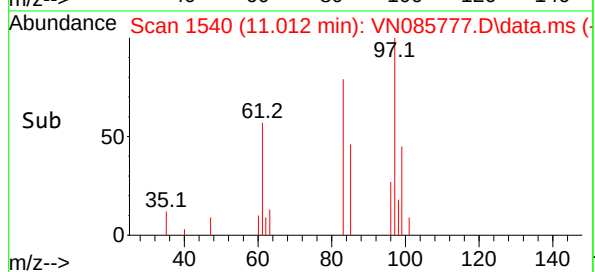
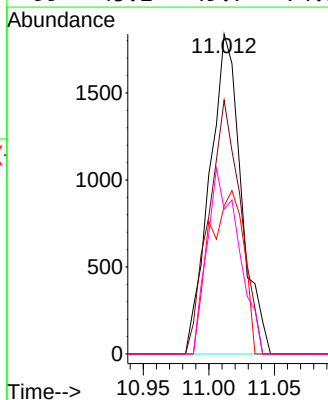
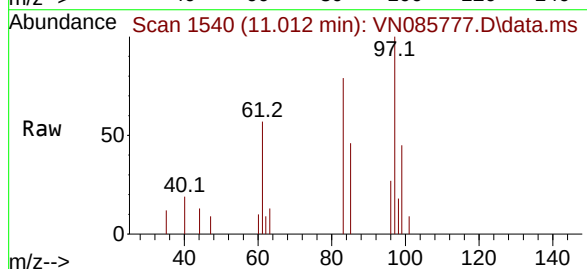
Manual Integrations
APPROVED

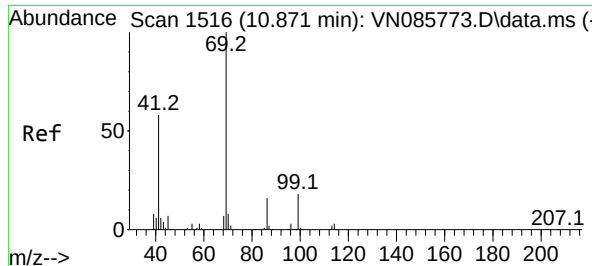
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#55
1,1,2-Trichloroethane
Concen: 0.936 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 97 Resp: 3084
Ion Ratio Lower Upper
97 100
83 79.3 66.1 99.1
85 46.3 44.7 67.1
99 45.2 49.7 74.5





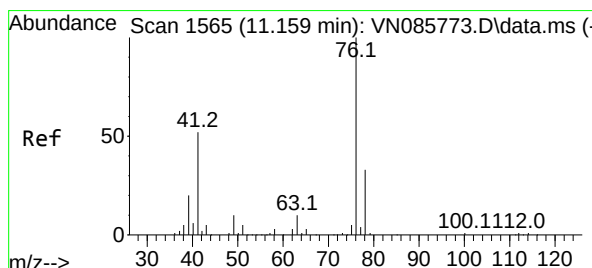
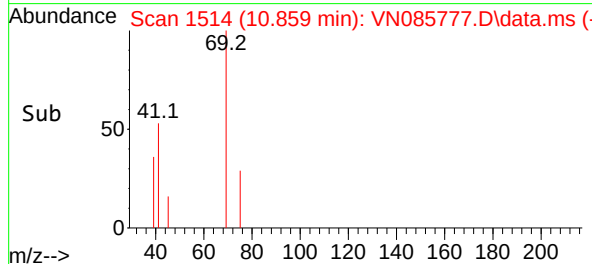
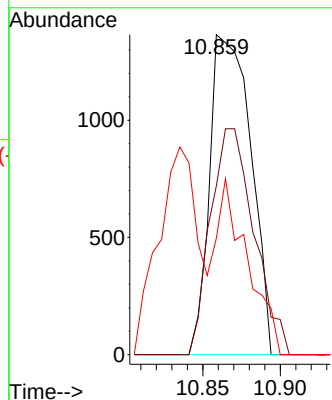
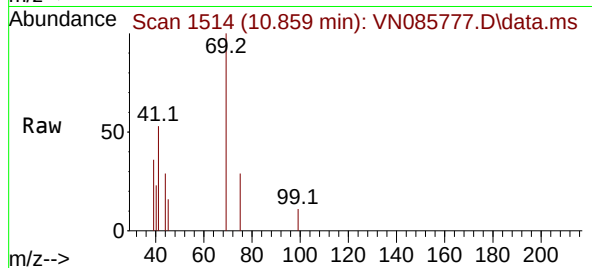
#56
Ethyl methacrylate
Concen: 1.052 ug/l
RT: 10.859 min Scan# 1515
Delta R.T. -0.012 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 251
Ion Ratio Lower Upper
69 100
41 75.0 46.0 69.0
39 41.8 22.0 33.0

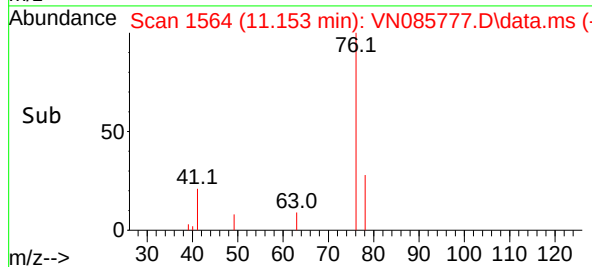
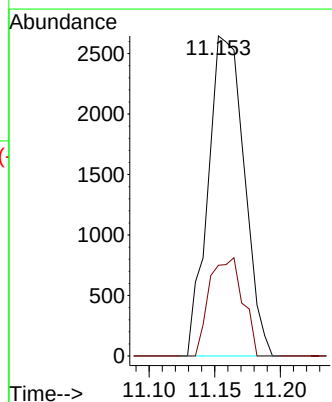
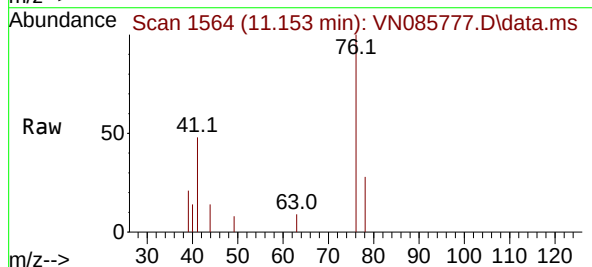
Manual Integrations
APPROVED

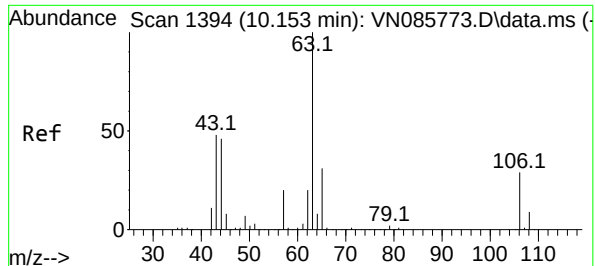
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#57
1,3-Dichloropropane
Concen: 0.923 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 76 Resp: 5078
Ion Ratio Lower Upper
76 100
78 28.3 25.9 38.9





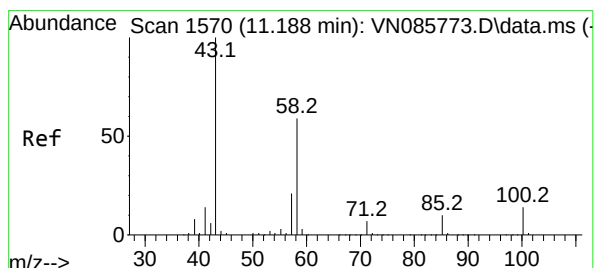
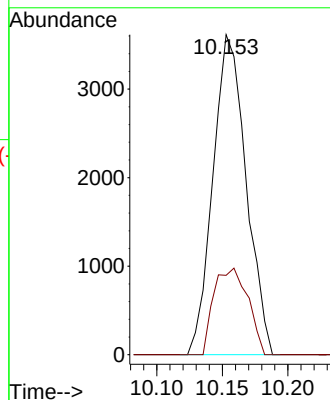
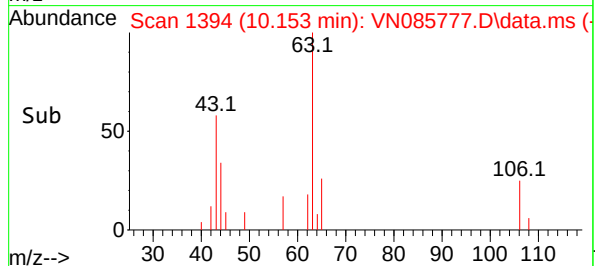
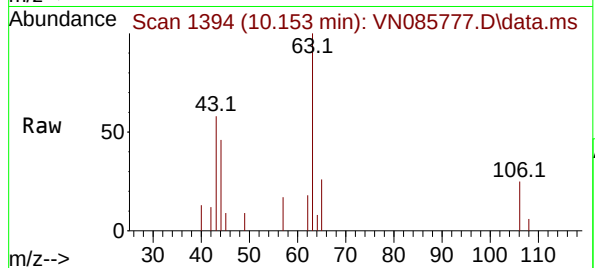
#58
2-Chloroethyl Vinyl ether
Concen: 3.424 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 63 Resp: 635
Ion Ratio Lower Upper
63 100
106 27.8 22.7 34.1

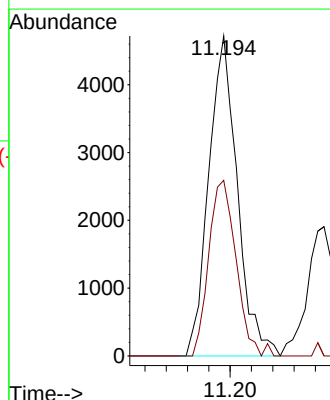
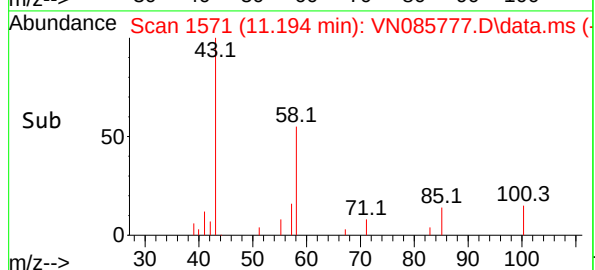
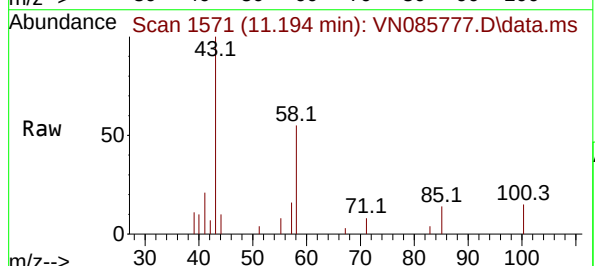
Manual Integrations
APPROVED

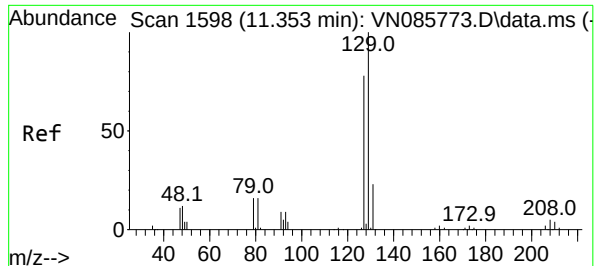
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#59
2-Hexanone
Concen: 3.646 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 43 Resp: 8780
Ion Ratio Lower Upper
43 100
58 52.6 29.8 89.5





#60

Dibromochloromethane

Concen: 0.881 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 3380

Ion Ratio Lower Upper

129 100

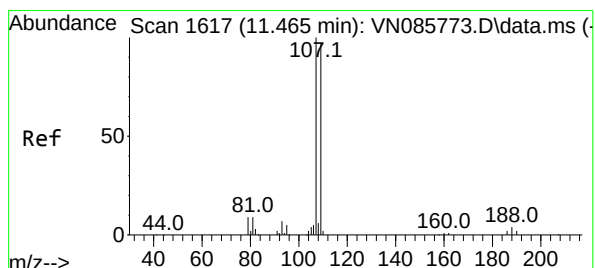
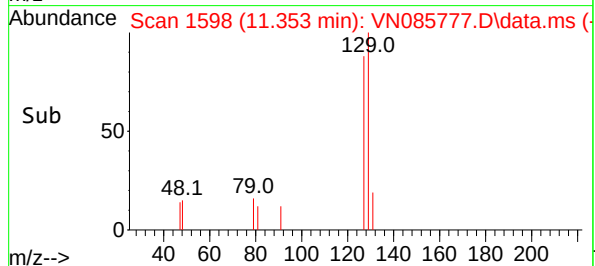
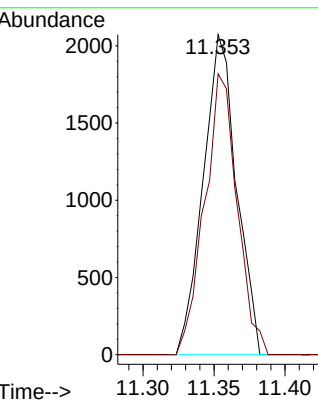
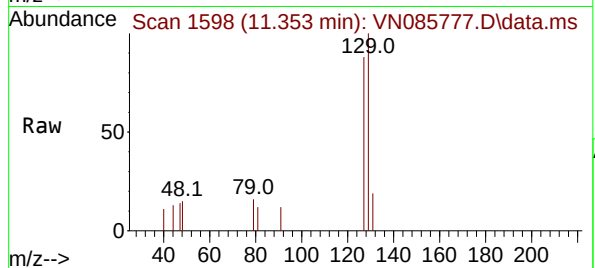
127 85.8 39.1 117.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#61

1,2-Dibromoethane

Concen: 0.835 ug/l

RT: 11.465 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VN085777.D

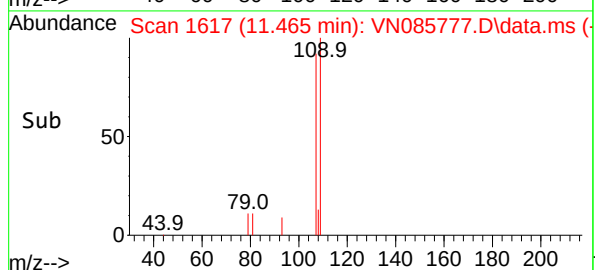
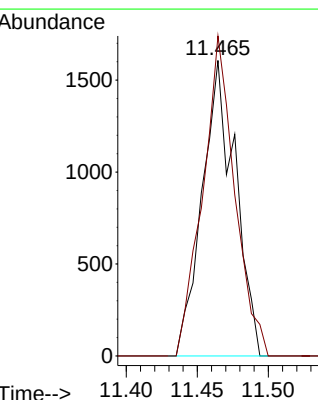
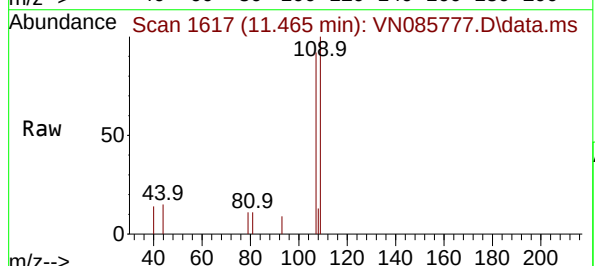
Acq: 18 Feb 2025 13:07

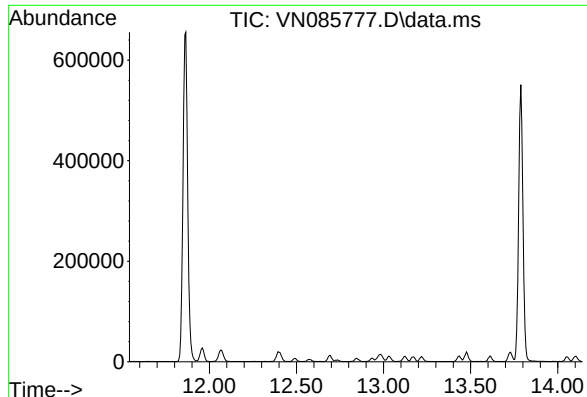
Tgt Ion:107 Resp: 2599

Ion Ratio Lower Upper

107 100

109 105.4 76.0 114.0





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.84 min

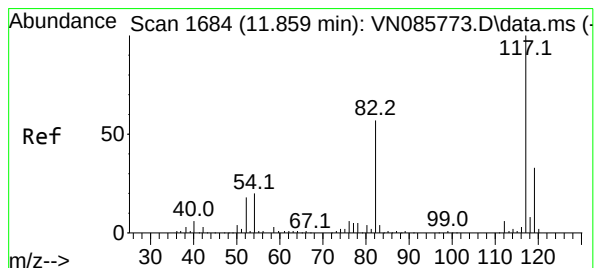
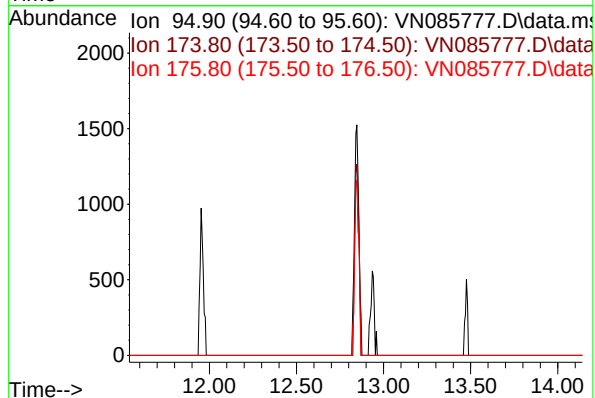
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 95
Sig Exp Ratio
95 100
174 76.2
176 73.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

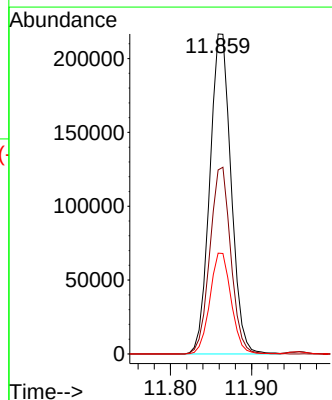
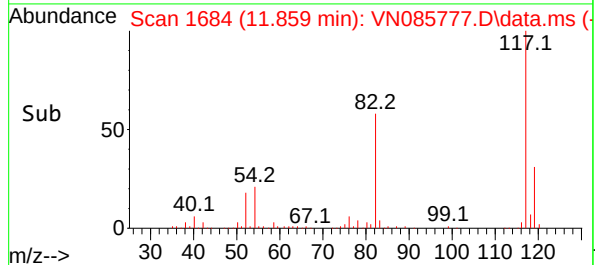
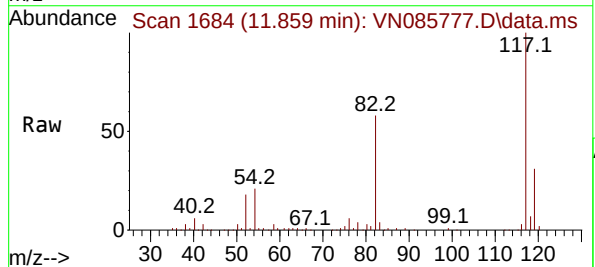
Manual Integrations
APPROVED

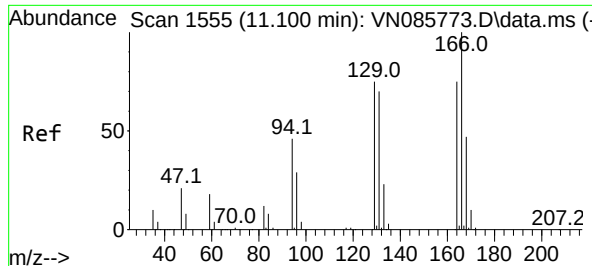
Reviewed By : John Carlone 02/19/2025
Supervised By : Mahesh Dadoda 02/19/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

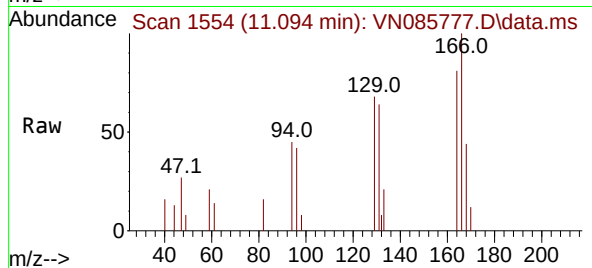
Tgt Ion: 117 Resp: 394997
Ion Ratio Lower Upper
117 100
82 57.5 45.7 68.5
119 31.5 26.2 39.2





#64
Tetrachloroethene
Concen: 1.016 ug/l
RT: 11.094 min Scan# 1554
Delta R.T. -0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

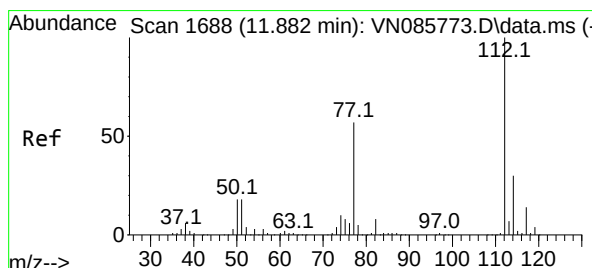
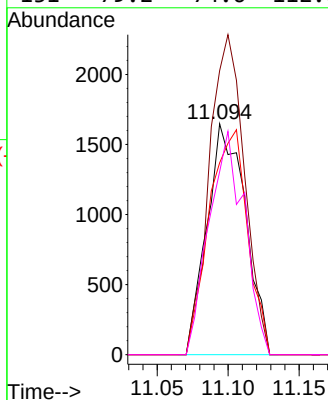
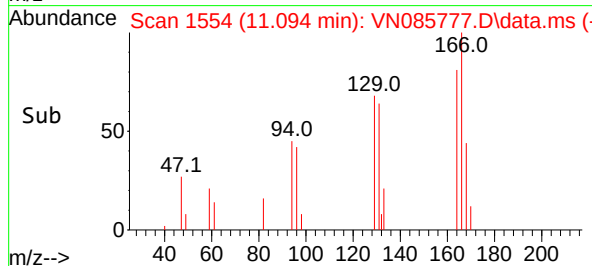
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:164 Resp: 3108
Ion Ratio Lower Upper
164 100
166 123.0 107.2 160.8
129 83.1 80.7 121.1
131 79.2 74.6 112.0

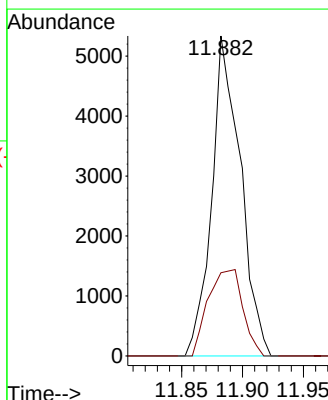
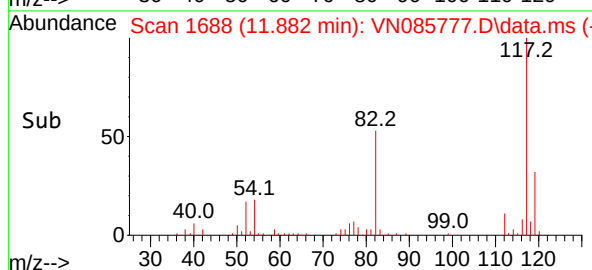
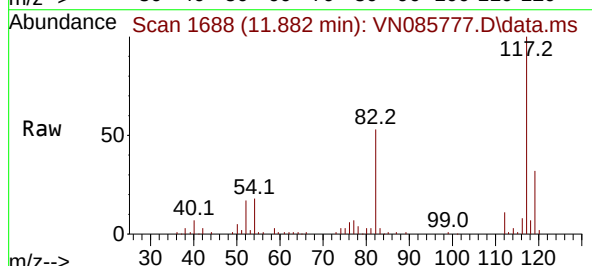
Manual Integrations
APPROVED

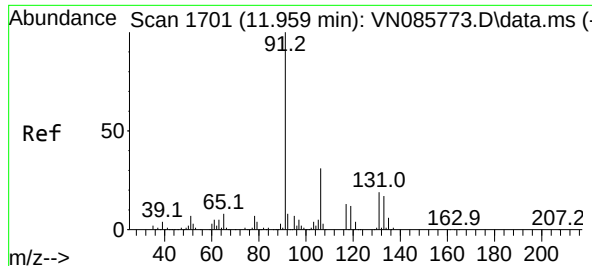
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#65
Chlorobenzene
Concen: 0.968 ug/l
RT: 11.882 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

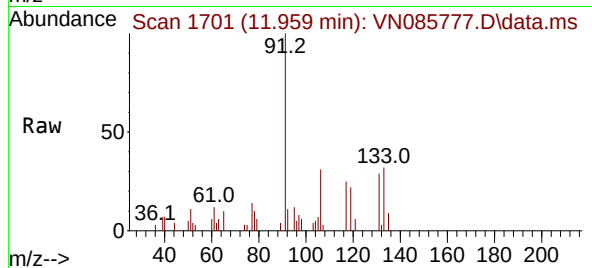
Tgt Ion:112 Resp: 8761
Ion Ratio Lower Upper
112 100
114 26.0 24.3 36.5





#66
1,1,1,2-Tetrachloroethane
Concen: 0.991 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

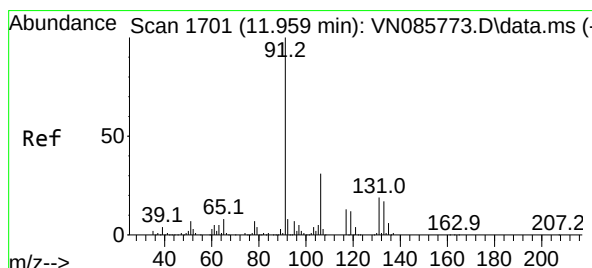
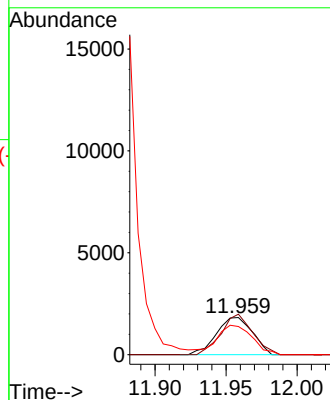
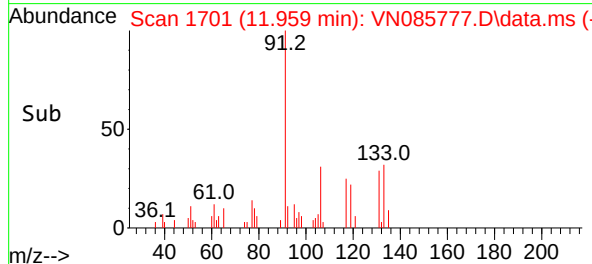
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:131 Resp: 322
Ion Ratio Lower Upper
131 100
133 95.6 47.7 143.1
119 0.0 33.3 99.8

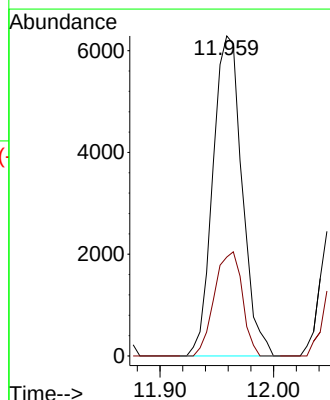
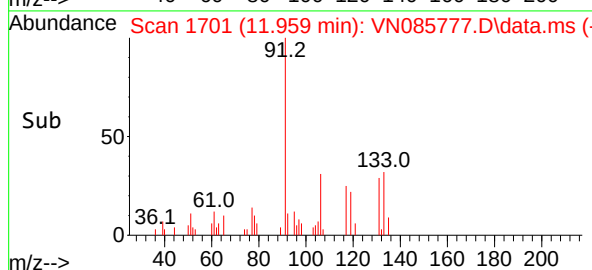
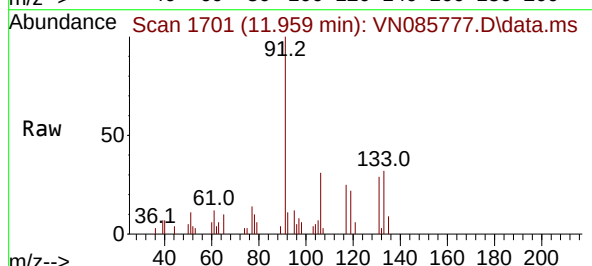
Manual Integrations
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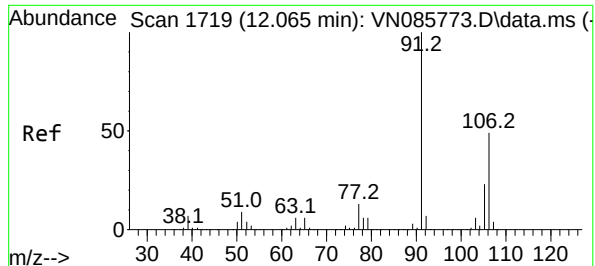
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#67
Ethyl Benzene
Concen: 0.793 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 91 Resp: 11246
Ion Ratio Lower Upper
91 100
106 30.9 24.7 37.1





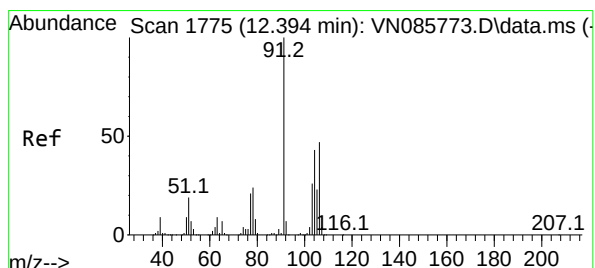
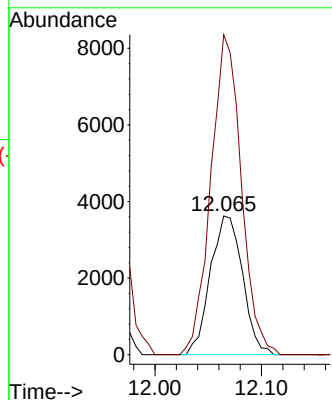
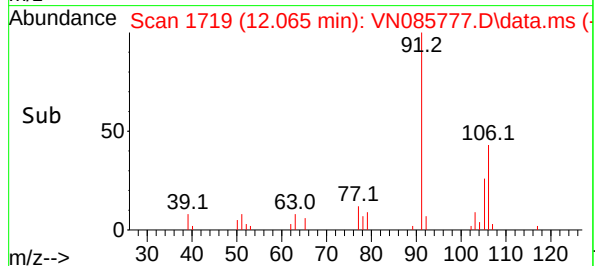
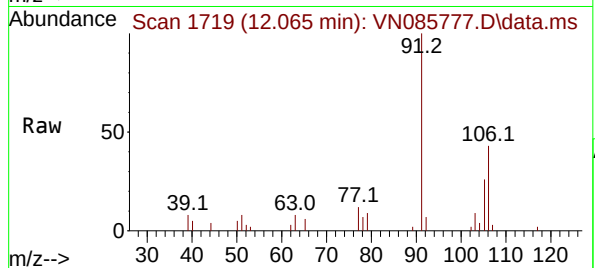
#68
m/p-Xylenes
Concen: 1.413 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 7600
Ion Ratio Lower Upper
106 100
91 218.1 163.3 244.9

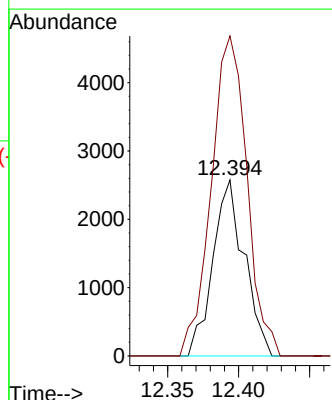
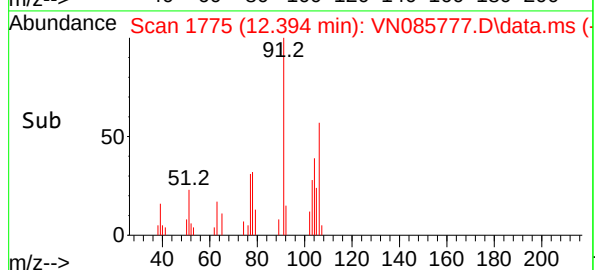
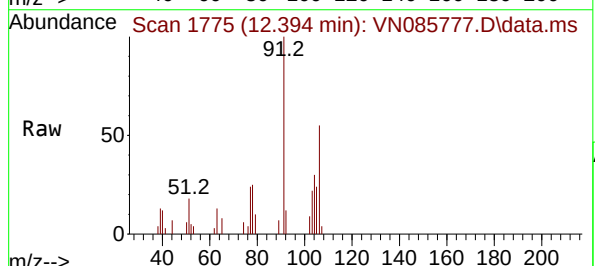
Manual Integrations
APPROVED

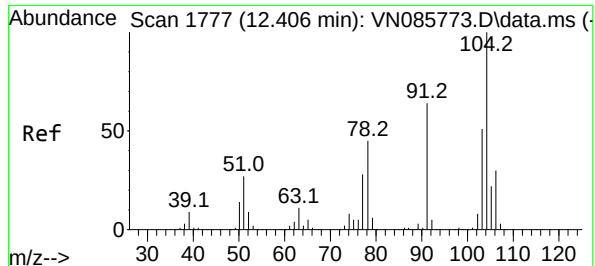
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#69
o-Xylene
Concen: 0.775 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion:106 Resp: 3965
Ion Ratio Lower Upper
106 100
91 206.1 107.1 321.4





#70

Styrene

Concen: 1.257 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

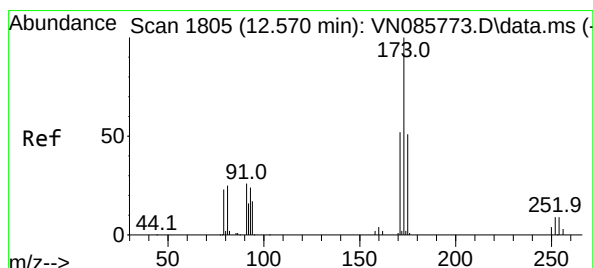
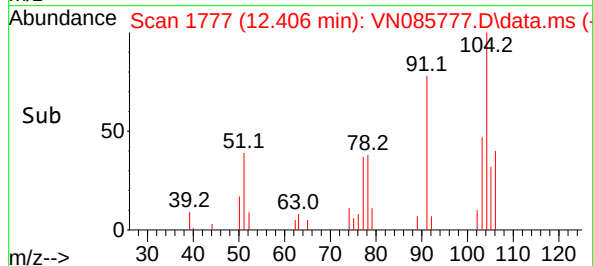
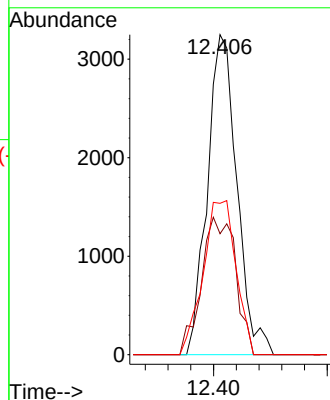
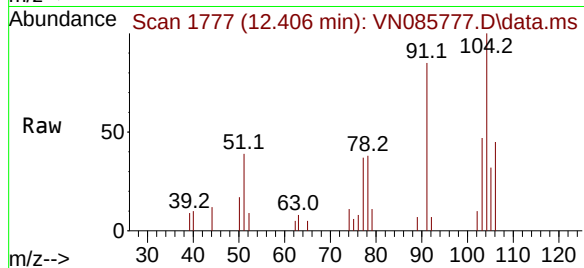
VSTDIC001

Tgt Ion:104	Resp:	587
Ion Ratio	Lower	Upper
104	100	
78	49.4	39.0 58.6
103	53.4	43.3 64.9

Manual Integrations
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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#71

Bromoform

Concen: 0.894 ug/l

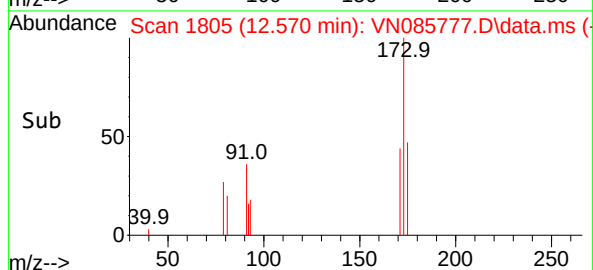
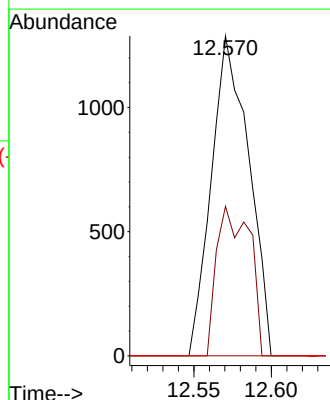
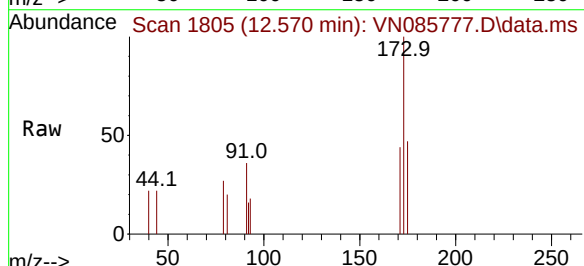
RT: 12.570 min Scan# 1805

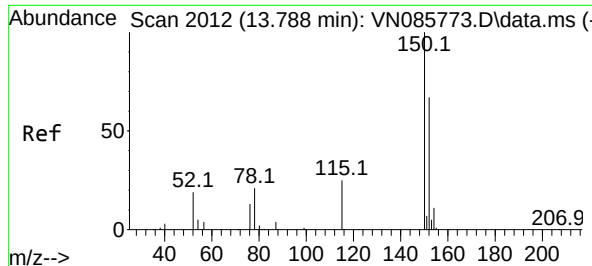
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:173	Resp:	2161
Ion Ratio	Lower	Upper
173	100	
175	41.3	25.1 75.4
254	0.0	0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 152224

Ion Ratio Lower Upper

152 100

115 60.2 30.4 91.3

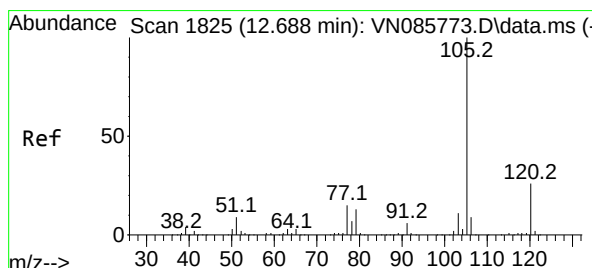
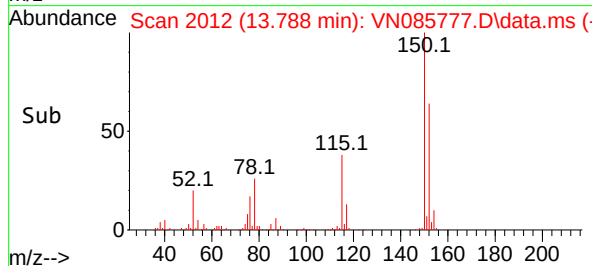
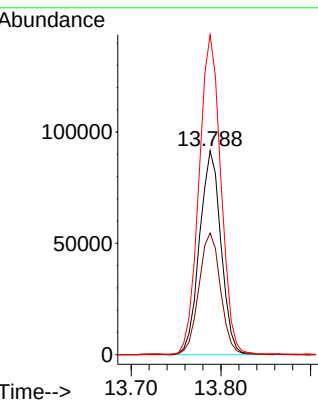
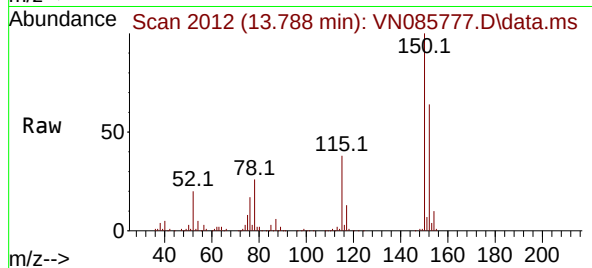
150 160.8 0.0 345.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#73

Isopropylbenzene

Concen: 0.856 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.006 min

Lab File: VN085777.D

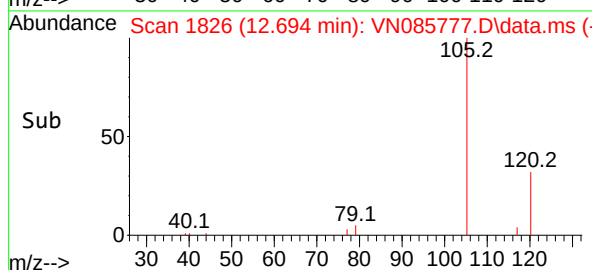
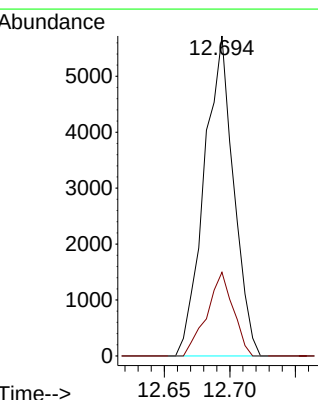
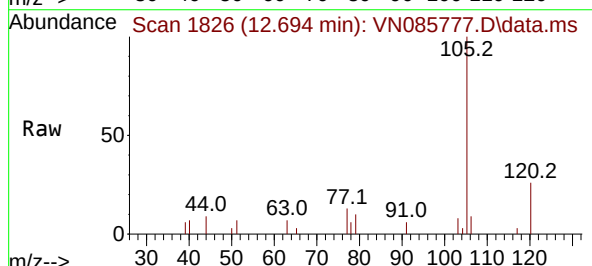
Acq: 18 Feb 2025 13:07

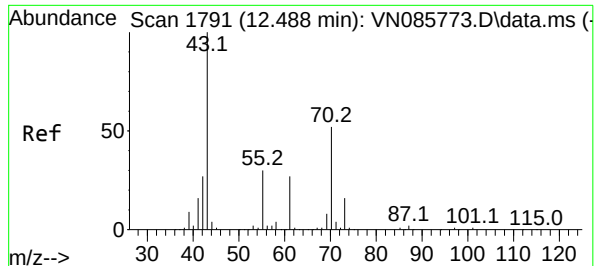
Tgt Ion:105 Resp: 8928

Ion Ratio Lower Upper

105 100

120 23.4 13.0 39.0





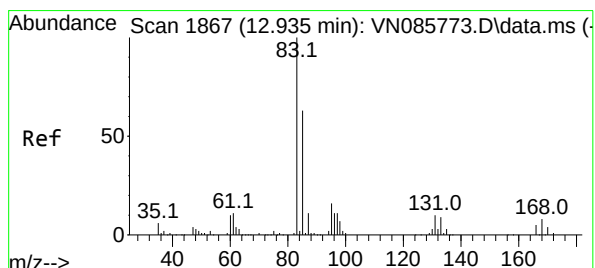
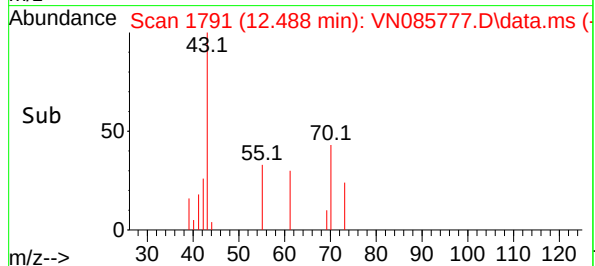
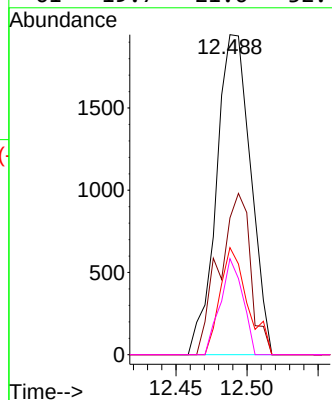
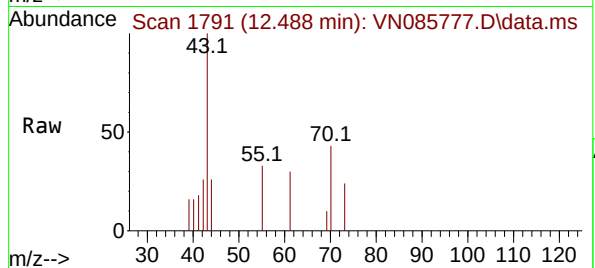
#74
N-amy1 acetate
Concen: 0.887 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 326
Ion Ratio Lower Upper
43 100
70 46.2 41.0 61.4
55 26.7 24.6 36.8
61 19.7 21.6 32.4#

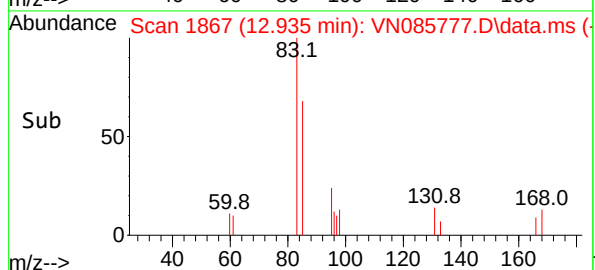
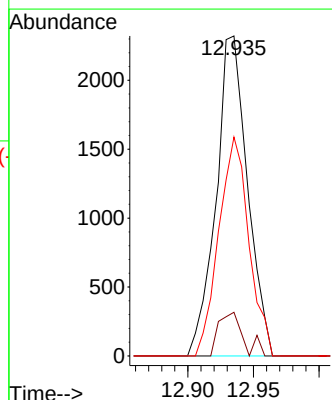
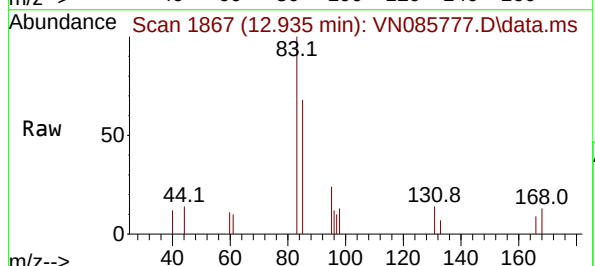
Manual Integrations
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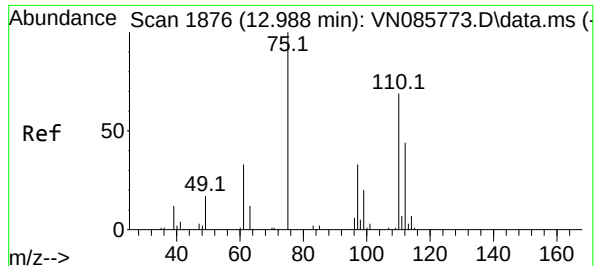
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.078 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion: 83 Resp: 3870
Ion Ratio Lower Upper
83 100
131 10.6 5.0 15.0
85 65.5 32.2 96.6





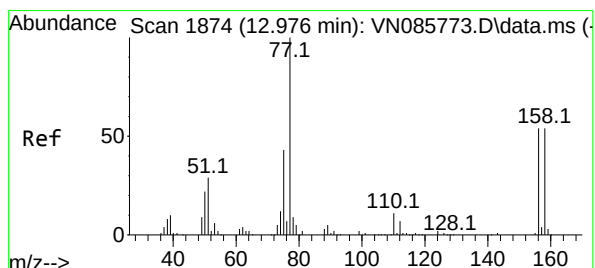
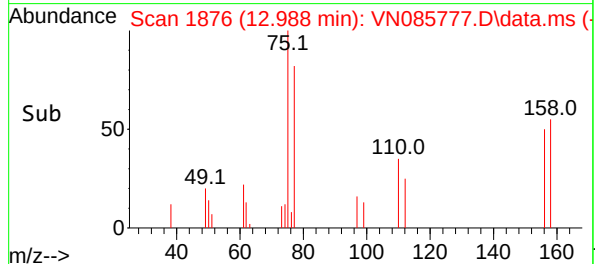
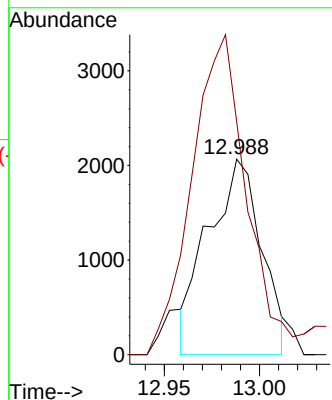
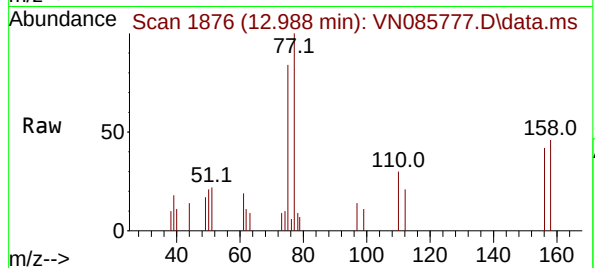
#76
1,2,3-Trichloropropane
Concen: 1.206 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 403
Ion Ratio Lower Upper
75 100
77 166.9 100.0 300.0

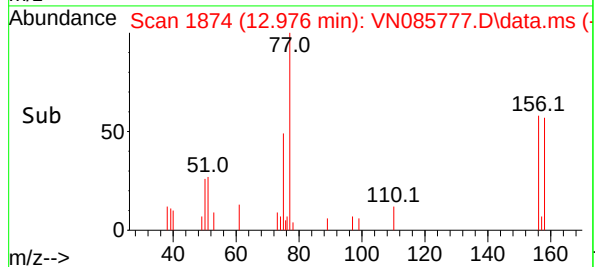
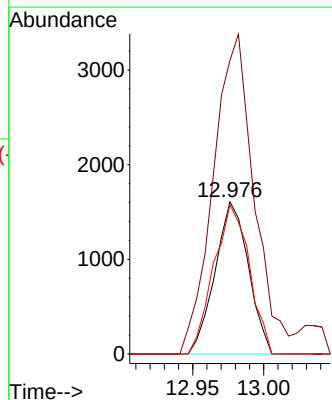
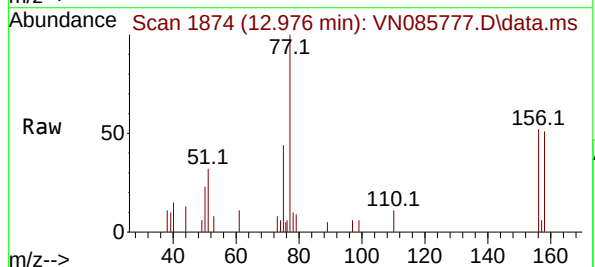
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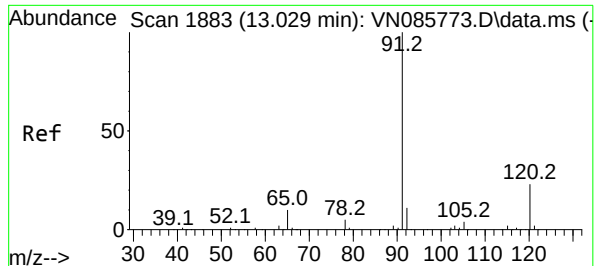
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#77
Bromobenzene
Concen: 0.931 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

Tgt Ion:156 Resp: 2624
Ion Ratio Lower Upper
156 100
77 256.5 104.1 312.3
158 104.8 48.1 144.4





#78

n-propylbenzene

Concen: 0.773 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. 0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

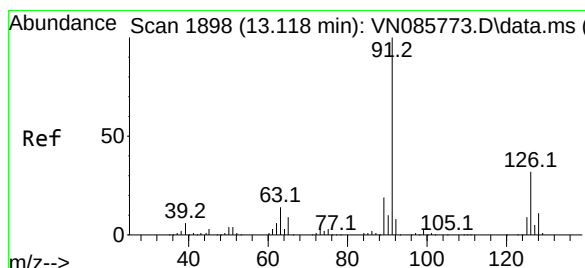
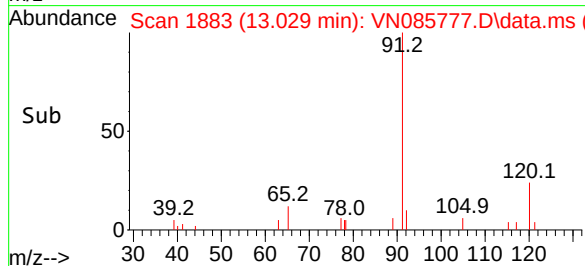
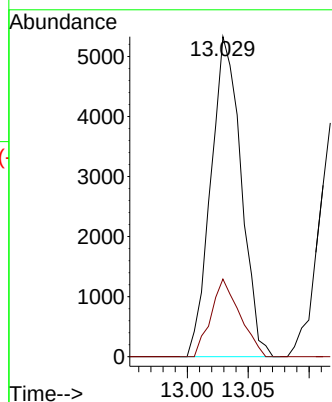
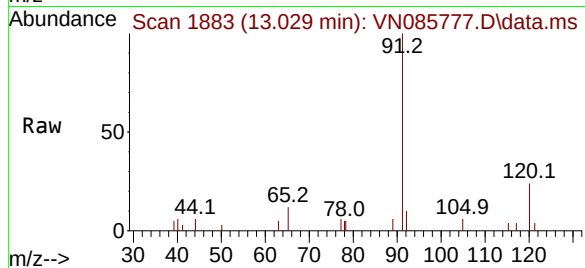
ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 9228
Ion Ratio Lower Upper
91 100
120 23.0 11.3 33.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#79

2-Chlorotoluene

Concen: 0.910 ug/l

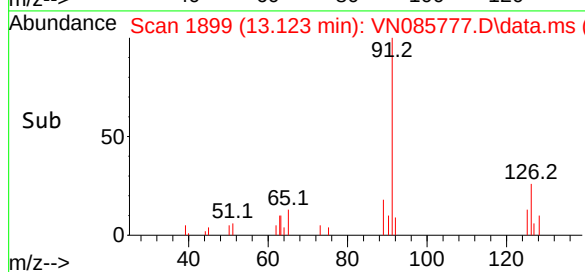
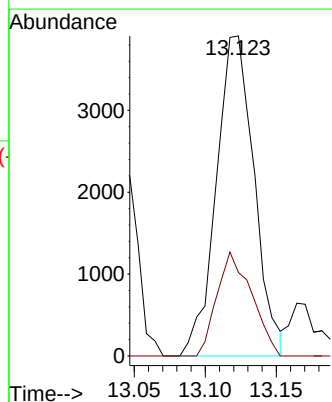
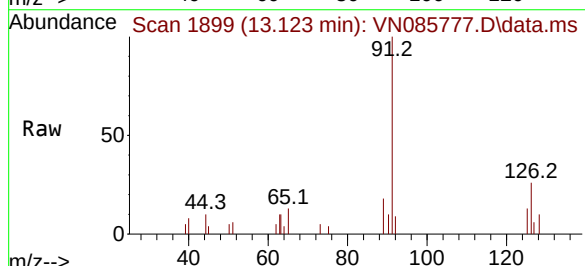
RT: 13.123 min Scan# 1899

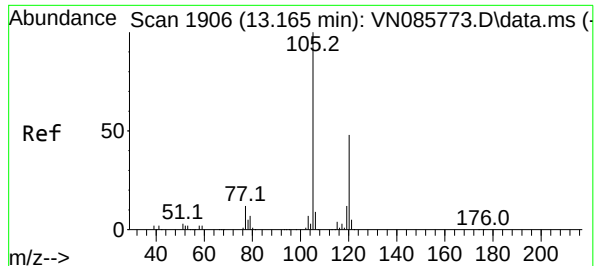
Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion: 91 Resp: 7260
Ion Ratio Lower Upper
91 100
126 29.8 16.4 49.1





#80

1,3,5-Trimethylbenzene

Concen: 0.728 ug/l

RT: 13.164 min Scan# 1906

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 618

Ion Ratio Lower Upper

105 100

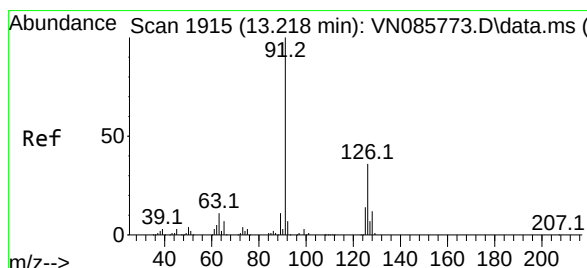
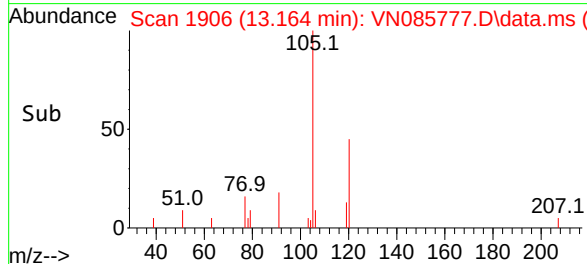
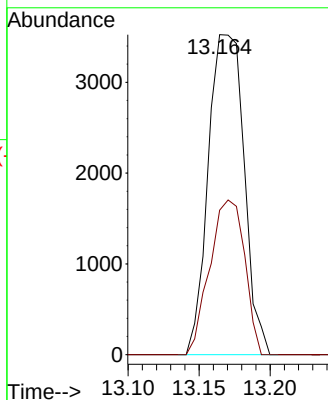
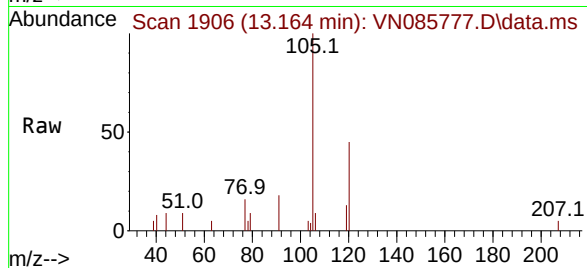
120 47.1 24.3 72.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#82

4-Chlorotoluene

Concen: 0.847 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085777.D

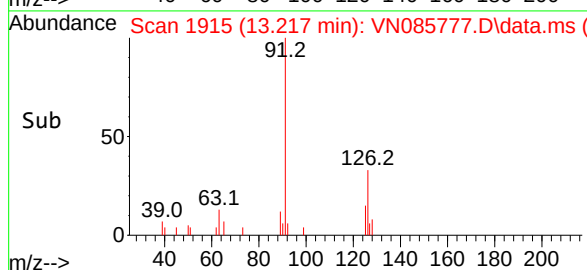
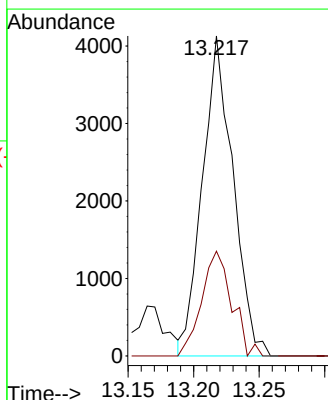
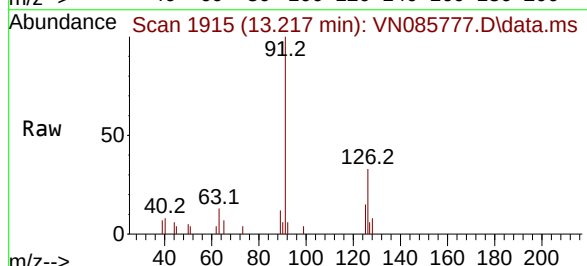
Acq: 18 Feb 2025 13:07

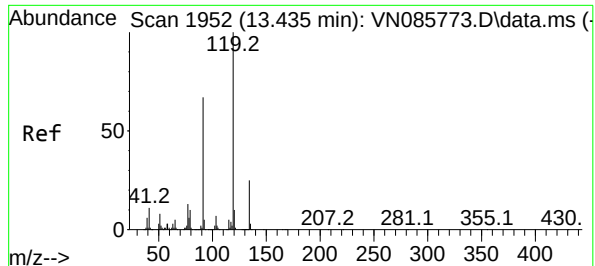
Tgt Ion: 91 Resp: 6700

Ion Ratio Lower Upper

91 100

126 32.3 16.4 49.4





#83

tert-Butylbenzene

Concen: 0.768 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

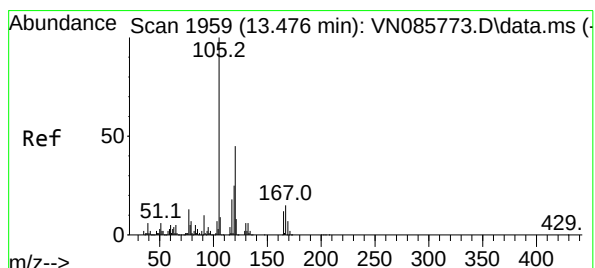
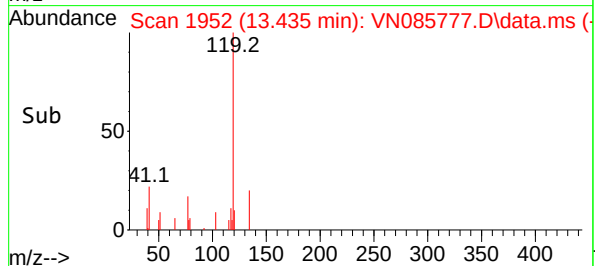
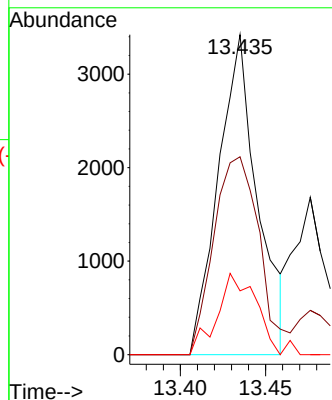
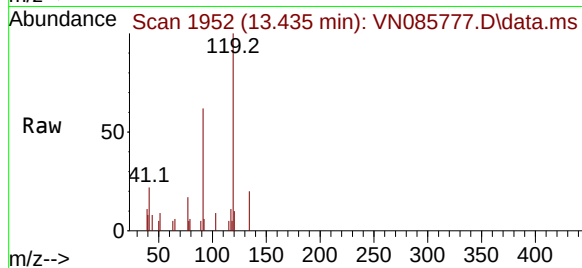
VSTDICC001

Tgt Ion:	119	Resp:	548
Ion	Ratio	Lower	Upper
119	100		
91	72.3	32.5	97.5
134	26.0	13.3	39.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.666 ug/l

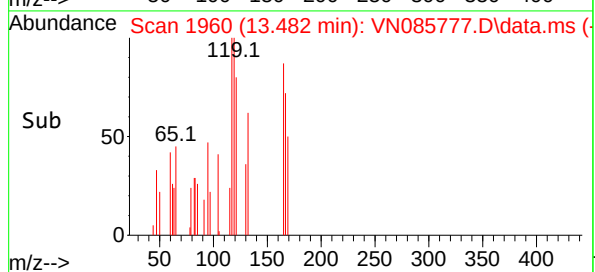
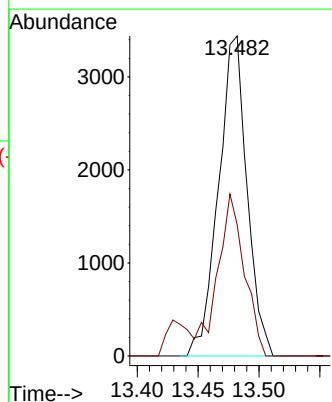
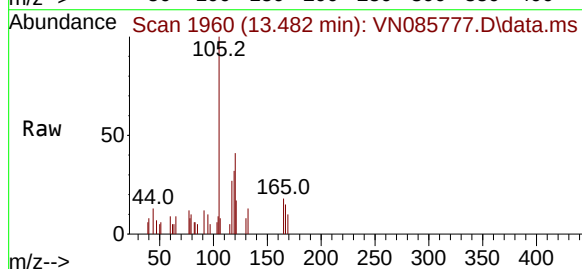
RT: 13.482 min Scan# 1960

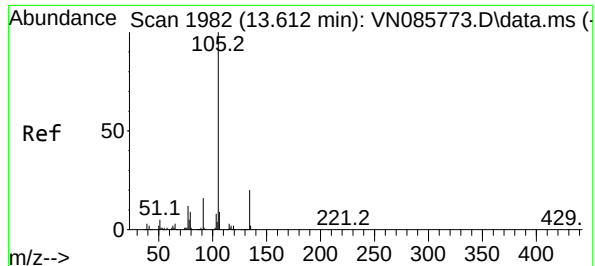
Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	105	Resp:	5595
Ion	Ratio	Lower	Upper
105	100		
120	47.4	22.4	67.3





#85

sec-Butylbenzene

Concen: 0.750 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.001 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 7569

Ion Ratio Lower Upper

105 100

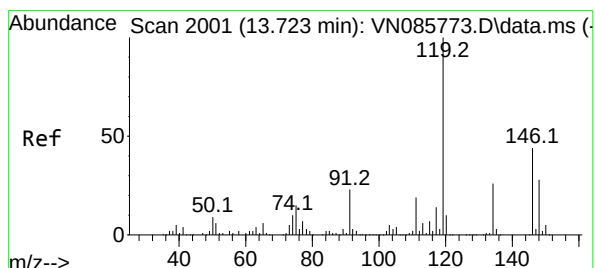
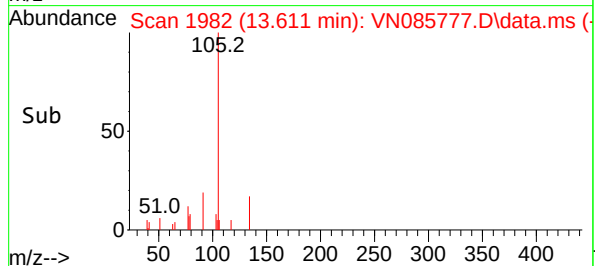
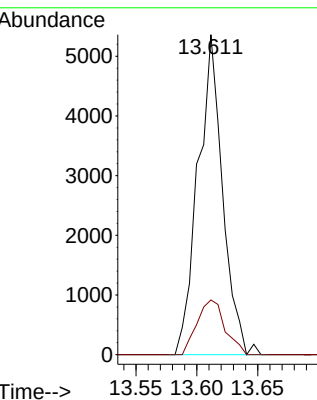
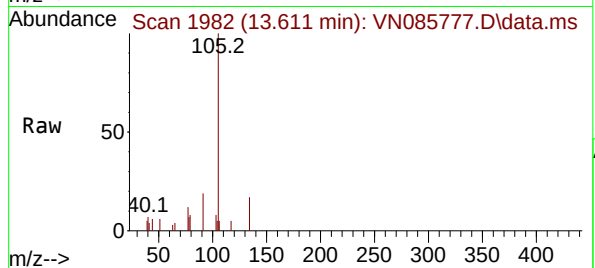
134 19.4 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 1.252 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

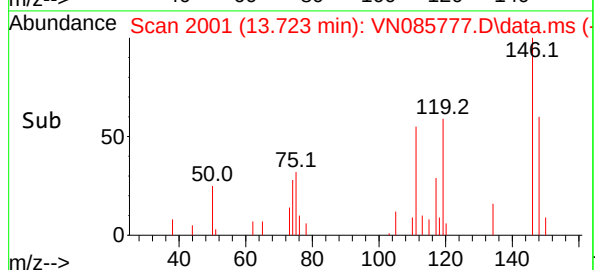
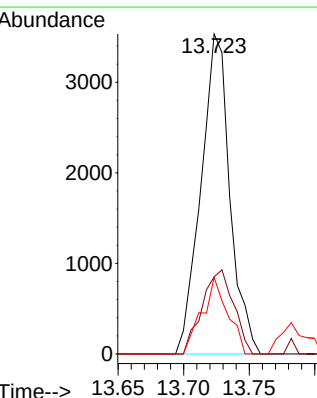
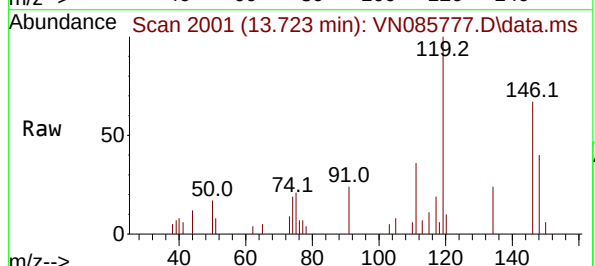
Tgt Ion:119 Resp: 5416

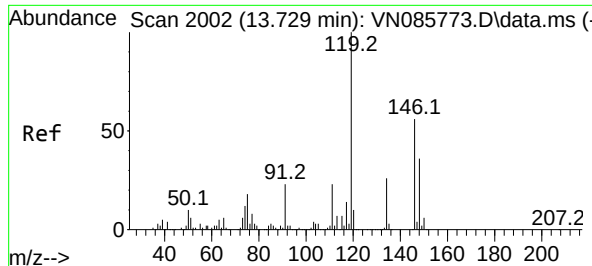
Ion Ratio Lower Upper

119 100

134 28.5 13.0 39.0

91 21.2 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 1.008 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

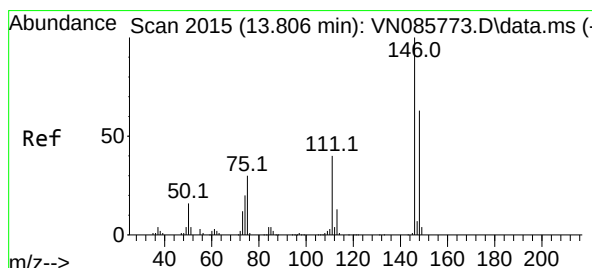
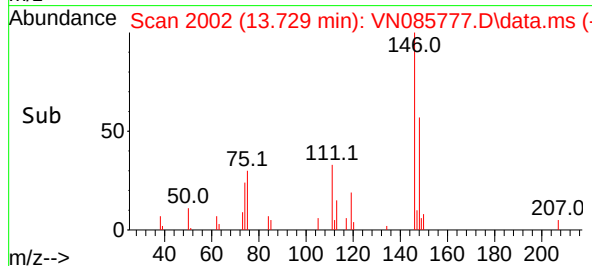
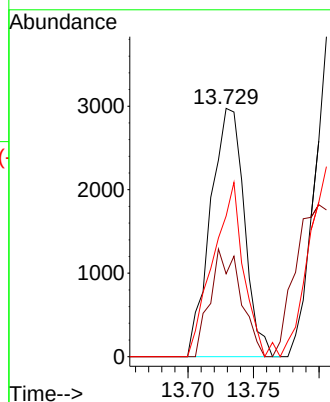
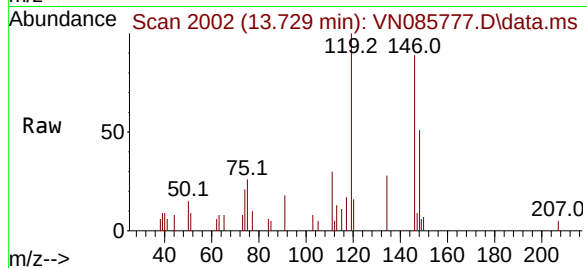
Tgt Ion:	146	Resp:	532
Ion Ratio	Lower	Upper	
146	100		
111	39.2	21.1	63.3
148	63.9	32.1	96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 1.081 ug/l m

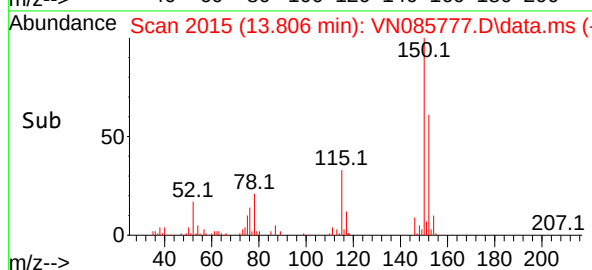
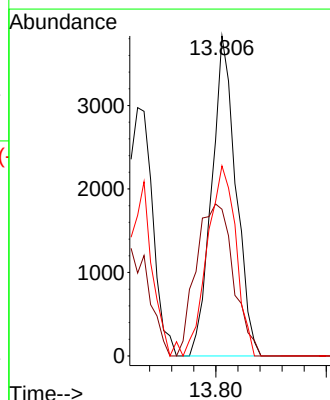
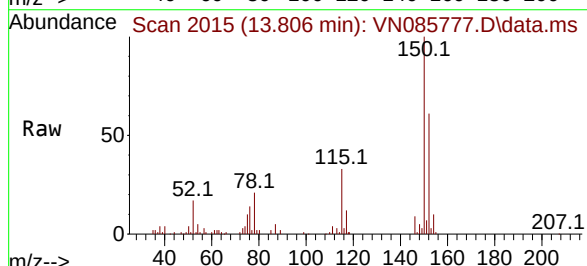
RT: 13.806 min Scan# 2015

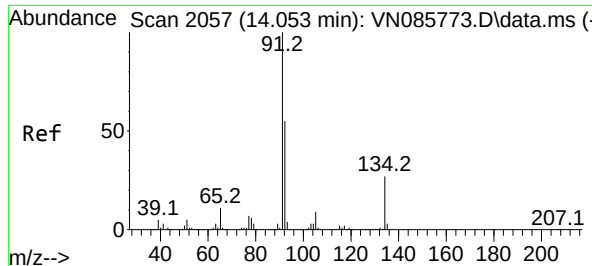
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Tgt Ion:	146	Resp:	5848
Ion Ratio	Lower	Upper	
146	100		
111	35.7	20.4	61.3
148	58.1	31.8	95.4





#89

n-Butylbenzene

Concen: 0.893 ug/l

RT: 14.047 min Scan# 2056

Delta R.T. -0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

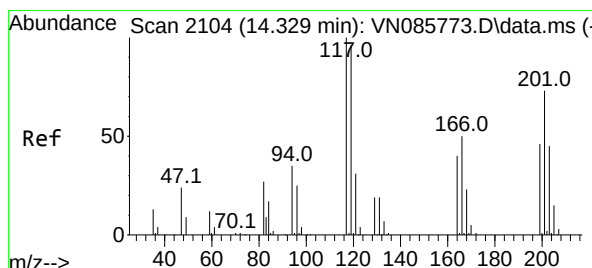
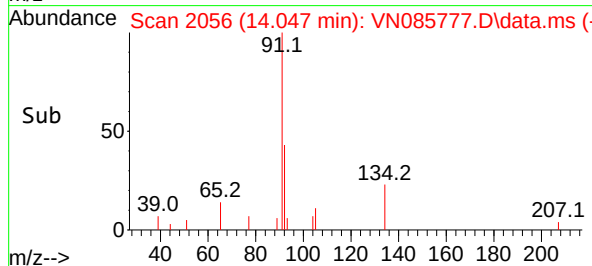
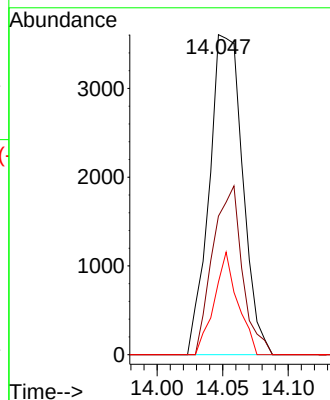
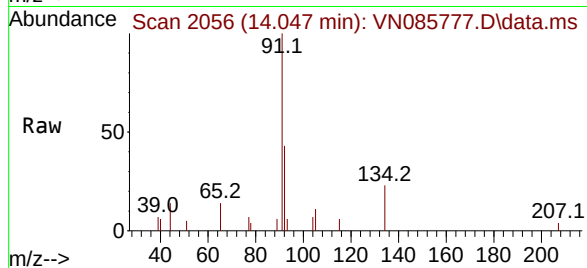
VSTDIC001

Tgt Ion:	91	Resp:	6398
Ion	Ratio	Lower	Upper
91	100		
92	46.6	27.1	81.3
134	22.6	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#90

Hexachloroethane

Concen: 1.126 ug/l

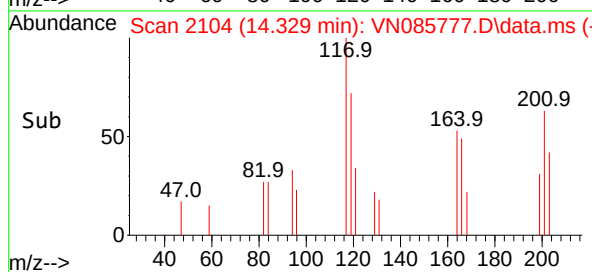
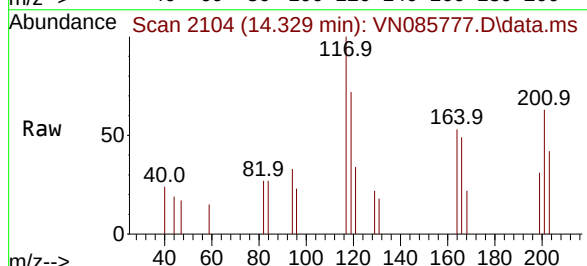
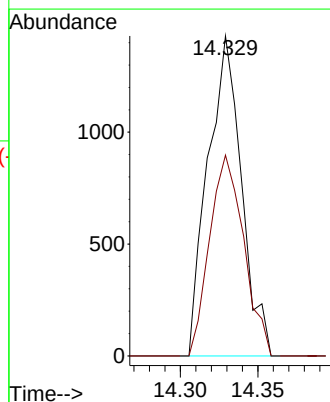
RT: 14.329 min Scan# 2104

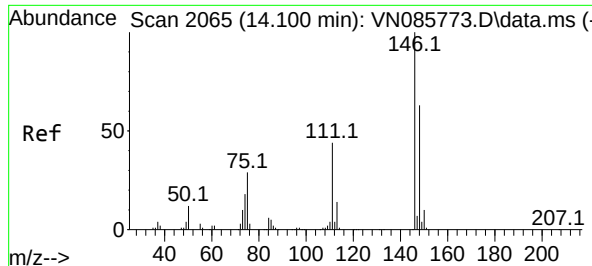
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

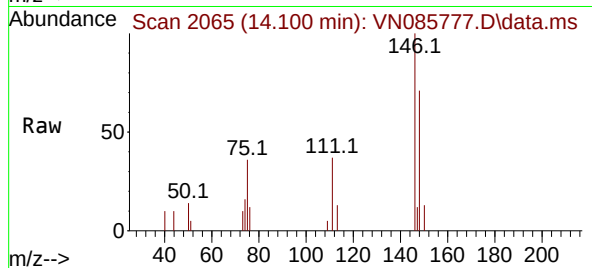
Tgt Ion:	117	Resp:	2153
Ion	Ratio	Lower	Upper
117	100		
201	63.9	35.6	106.9





#91
1,2-Dichlorobenzene
Concen: 1.046 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

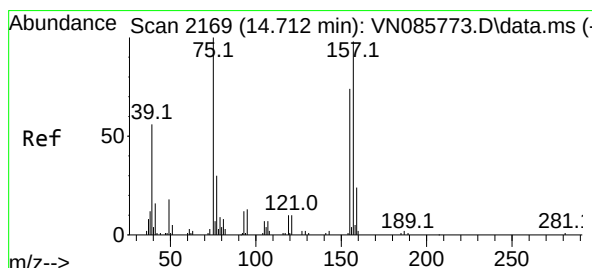
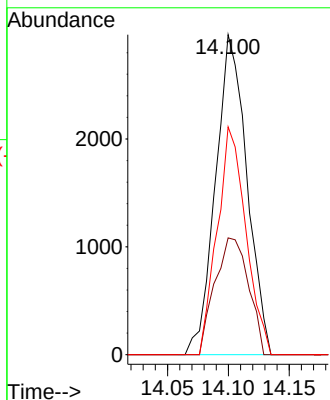
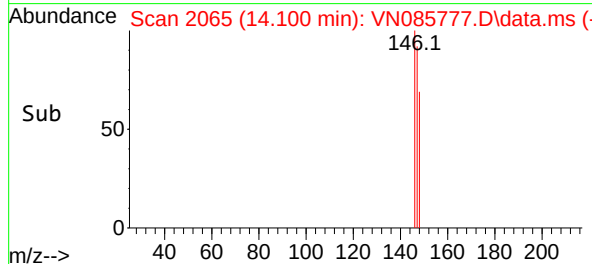
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



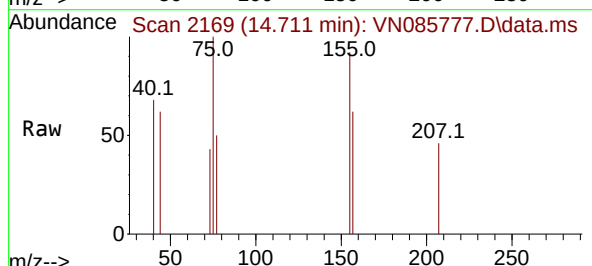
Tgt Ion:146 Resp: 5309
Ion Ratio Lower Upper
146 100
111 39.1 21.4 64.3
148 65.3 32.0 96.2

Manual Integrations
APPROVED

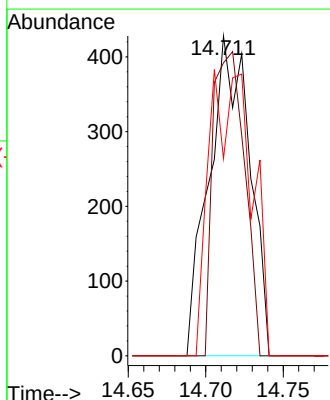
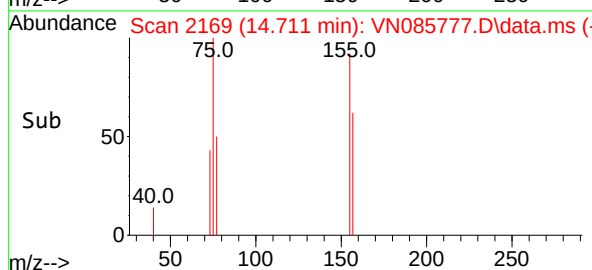
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

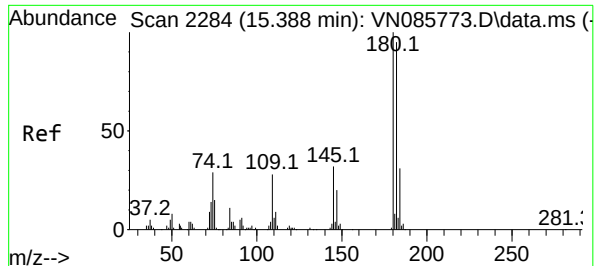


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.184 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07



Tgt Ion: 75 Resp: 780
Ion Ratio Lower Upper
75 100
155 73.8 39.9 119.6
157 92.8 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 1.044 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

Instrument :

MSVOA_N

ClientSampleId :

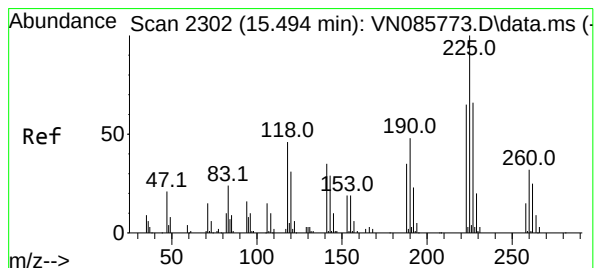
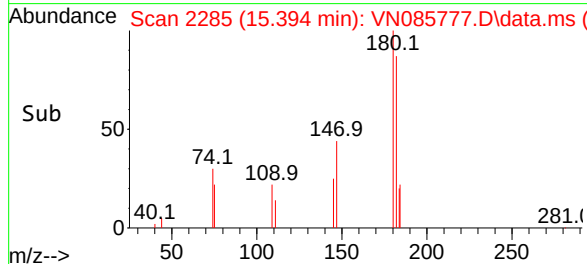
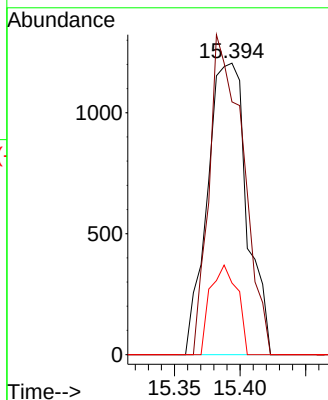
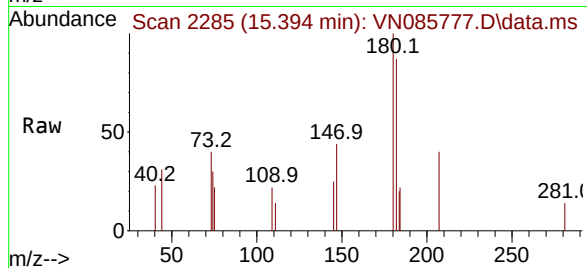
VSTDIC001

Tgt Ion:180	Resp:	252
Ion Ratio	Lower	Upper
180	100	
182	94.7	47.3 141.9
145	21.0	16.2 48.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

Concen: 1.344 ug/l

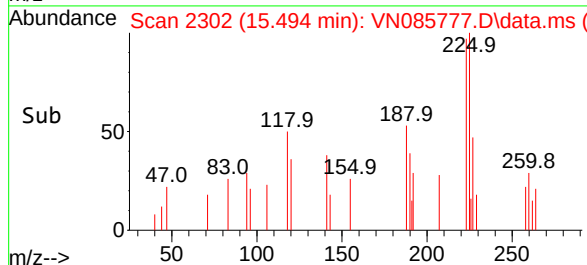
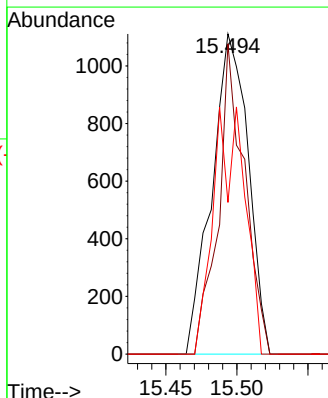
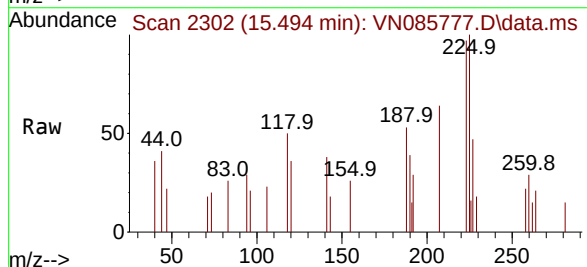
RT: 15.494 min Scan# 2302

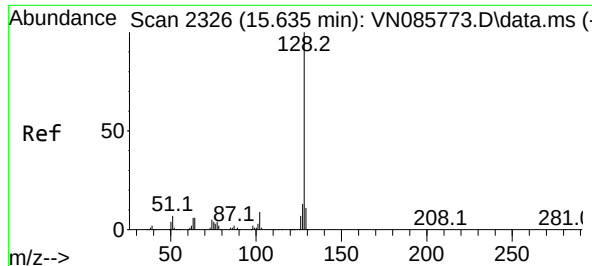
Delta R.T. -0.000 min

Lab File: VN085777.D

Acq: 18 Feb 2025 13:07

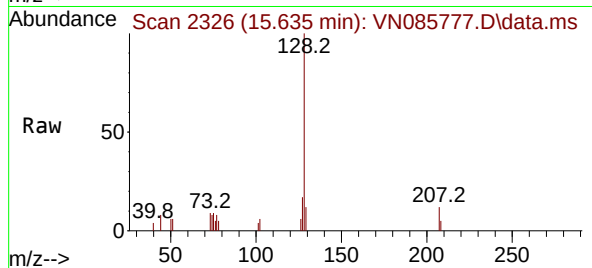
Tgt Ion:225	Resp:	1976
Ion Ratio	Lower	Upper
225	100	
223	70.2	31.9 95.5
227	66.8	32.2 96.6





#95
Naphthalene
Concen: 1.099 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07

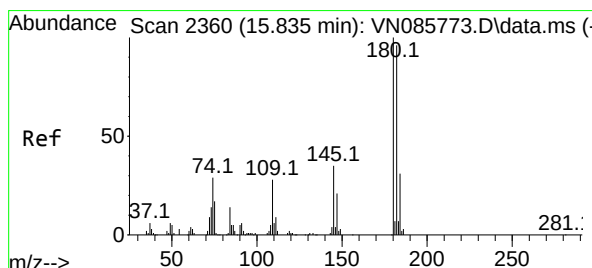
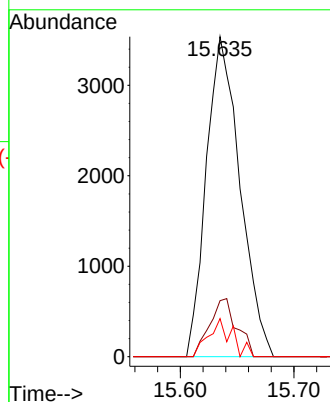
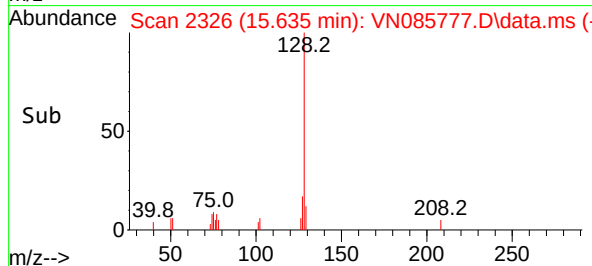
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



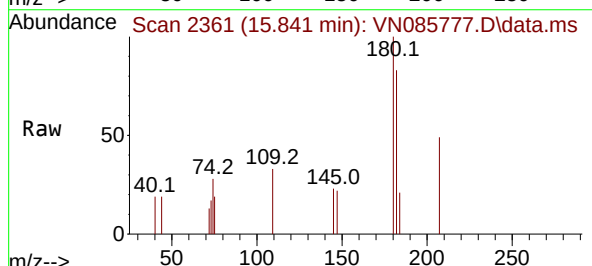
Tgt Ion:128 Resp: 7298
Ion Ratio Lower Upper
128 100
127 14.6 10.2 15.2
129 8.3 8.7 13.1

Manual Integrations
APPROVED

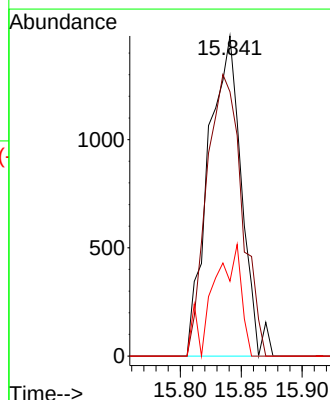
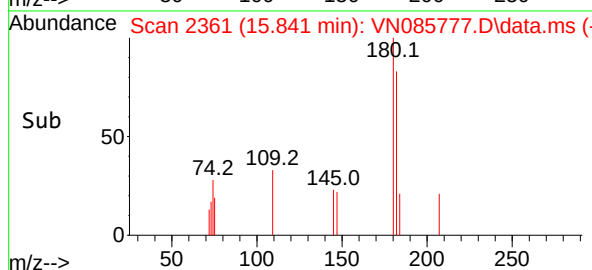
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.149 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN085777.D
Acq: 18 Feb 2025 13:07



Tgt Ion:180 Resp: 2791
Ion Ratio Lower Upper
180 100
182 93.7 47.3 141.8
145 29.6 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085779.D
 Acq On : 18 Feb 2025 14:18
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Feb 19 03:19:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:03:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
 Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	309026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	515996	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	448882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	214863	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	71117	17.751	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	35.500%#		
35) Dibromofluoromethane	8.159	113	60447	17.903	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	35.800%#		
50) Toluene-d8	10.559	98	222839	18.140	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	36.280%#		
62) 4-Bromofluorobenzene	12.847	95	71343	17.627	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	35.260%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	77669	18.478	ug/l	96
3) Chloromethane	2.360	50	74700	17.710	ug/l	98
4) Vinyl Chloride	2.512	62	83284	18.649	ug/l	96
5) Bromomethane	2.954	94	51068	17.884	ug/l	97
6) Chloroethane	3.118	64	54178	18.315	ug/l	98
7) Trichlorofluoromethane	3.501	101	124306	19.225	ug/l	100
8) Diethyl Ether	3.959	74	40213	19.221	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	74051	19.813	ug/l	98
10) Methyl Iodide	4.589	142	87963	19.093	ug/l	96
11) Tert butyl alcohol	5.512	59	45305	91.941	ug/l	99
12) 1,1-Dichloroethene	4.336	96	65660	19.375	ug/l	95
13) Acrolein	4.177	56	65092	89.078	ug/l	99
14) Allyl chloride	5.024	41	84778	19.054	ug/l	98
15) Acrylonitrile	5.712	53	158250	98.787	ug/l	99
16) Acetone	4.418	43	122455	96.596	ug/l	97
17) Carbon Disulfide	4.706	76	179885	17.910	ug/l	100
18) Methyl Acetate	5.012	43	77229	17.712	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	205047	20.362	ug/l	97
20) Methylene Chloride	5.271	84	77308	18.963	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	69924	19.162	ug/l	91
22) Diisopropyl ether	6.665	45	212086	21.095	ug/l	99
23) Vinyl Acetate	6.600	43	695943	101.409	ug/l	99
24) 1,1-Dichloroethane	6.565	63	134620	19.697	ug/l	98
25) 2-Butanone	7.477	43	184659	99.012	ug/l	98
26) 2,2-Dichloropropane	7.489	77	120039	19.752	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	82886	19.590	ug/l	99
28) Bromochloromethane	7.806	49	49657	17.678	ug/l	95
29) Tetrahydrofuran	7.836	42	125831	104.482	ug/l	100
30) Chloroform	7.959	83	141059	19.750	ug/l	98
31) Cyclohexane	8.253	56	106009	18.525	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	125061	19.686	ug/l	98
36) 1,1-Dichloropropene	8.365	75	94481	19.772	ug/l	99
37) Ethyl Acetate	7.553	43	81716	20.780	ug/l	99
38) Carbon Tetrachloride	8.359	117	111137	19.574	ug/l	96
39) Methylcyclohexane	9.600	83	93454	19.907	ug/l	99
40) Benzene	8.600	78	304209	19.863	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085779.D
 Acq On : 18 Feb 2025 14:18
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:19:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:03:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	43566	20.724	ug/l	98
42) 1,2-Dichloroethane	8.665	62	99651	19.975	ug/l	99
43) Isopropyl Acetate	8.683	43	138304	19.709	ug/l	99
44) Trichloroethene	9.347	130	71769	19.085	ug/l	97
45) 1,2-Dichloropropane	9.618	63	73743	19.947	ug/l	98
46) Dibromomethane	9.706	93	52878	20.278	ug/l	97
47) Bromodichloromethane	9.883	83	111634	20.010	ug/l	97
48) Methyl methacrylate	9.677	41	60690	20.781	ug/l	99
49) 1,4-Dioxane	9.688	88	21778	392.137	ug/l #	88
51) 4-Methyl-2-Pentanone	10.441	43	400235	105.563	ug/l	99
52) Toluene	10.624	92	184001	20.495	ug/l	98
53) t-1,3-Dichloropropene	10.830	75	104301	20.218	ug/l	99
54) cis-1,3-Dichloropropene	10.306	75	115451	20.409	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	71034	19.900	ug/l	97
56) Ethyl methacrylate	10.871	69	94315	20.003	ug/l	97
57) 1,3-Dichloropropane	11.159	76	119649	20.080	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	256540	146.107	ug/l	99
59) 2-Hexanone	11.188	43	278550	106.794	ug/l	99
60) Dibromochloromethane	11.353	129	83651	20.125	ug/l	100
61) 1,2-Dibromoethane	11.465	107	68205	20.223	ug/l	99
64) Tetrachloroethene	11.100	164	67288	19.350	ug/l	94
65) Chlorobenzene	11.888	112	200885	19.535	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	72064	19.497	ug/l	99
67) Ethyl Benzene	11.959	91	330056	20.490	ug/l	97
68) m/p-Xylenes	12.065	106	259251	42.371	ug/l	100
69) o-Xylene	12.394	106	118291	20.345	ug/l	96
70) Styrene	12.406	104	203369	20.270	ug/l	100
71) Bromoform	12.576	173	55518	20.214	ug/l #	96
73) Isopropylbenzene	12.688	105	299398	20.339	ug/l	100
74) N-amyl acetate	12.488	43	106973	20.608	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	99174	19.579	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	96439m	20.431	ug/l	
77) Bromobenzene	12.976	156	78068	19.630	ug/l	98
78) n-propylbenzene	13.029	91	351518	20.852	ug/l	100
79) 2-Chlorotoluene	13.124	91	230434	20.458	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	258212	21.534	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.729	75	31517	19.267	ug/l	92
82) 4-Chlorotoluene	13.218	91	227177	20.345	ug/l	100
83) tert-Butylbenzene	13.435	119	208096	20.637	ug/l	97
84) 1,2,4-Trimethylbenzene	13.476	105	259373	21.863	ug/l	99
85) sec-Butylbenzene	13.612	105	293653	20.612	ug/l	99
86) p-Isopropyltoluene	13.723	119	240984	19.772	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	143937	19.318	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	144744	18.954	ug/l	99
89) n-Butylbenzene	14.053	91	195221	19.300	ug/l	97
90) Hexachloroethane	14.329	117	50599	18.753	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	138931	19.390	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	16407	17.639	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	60520	17.726	ug/l	98
94) Hexachlorobutadiene	15.500	225	34783	16.763	ug/l	97
95) Naphthalene	15.635	128	156537	16.700	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	57998	16.921	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085779.D
Acq On : 18 Feb 2025 14:18
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

Quant Time: Feb 19 03:19:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:03:15 2025
Response via : Initial Calibration

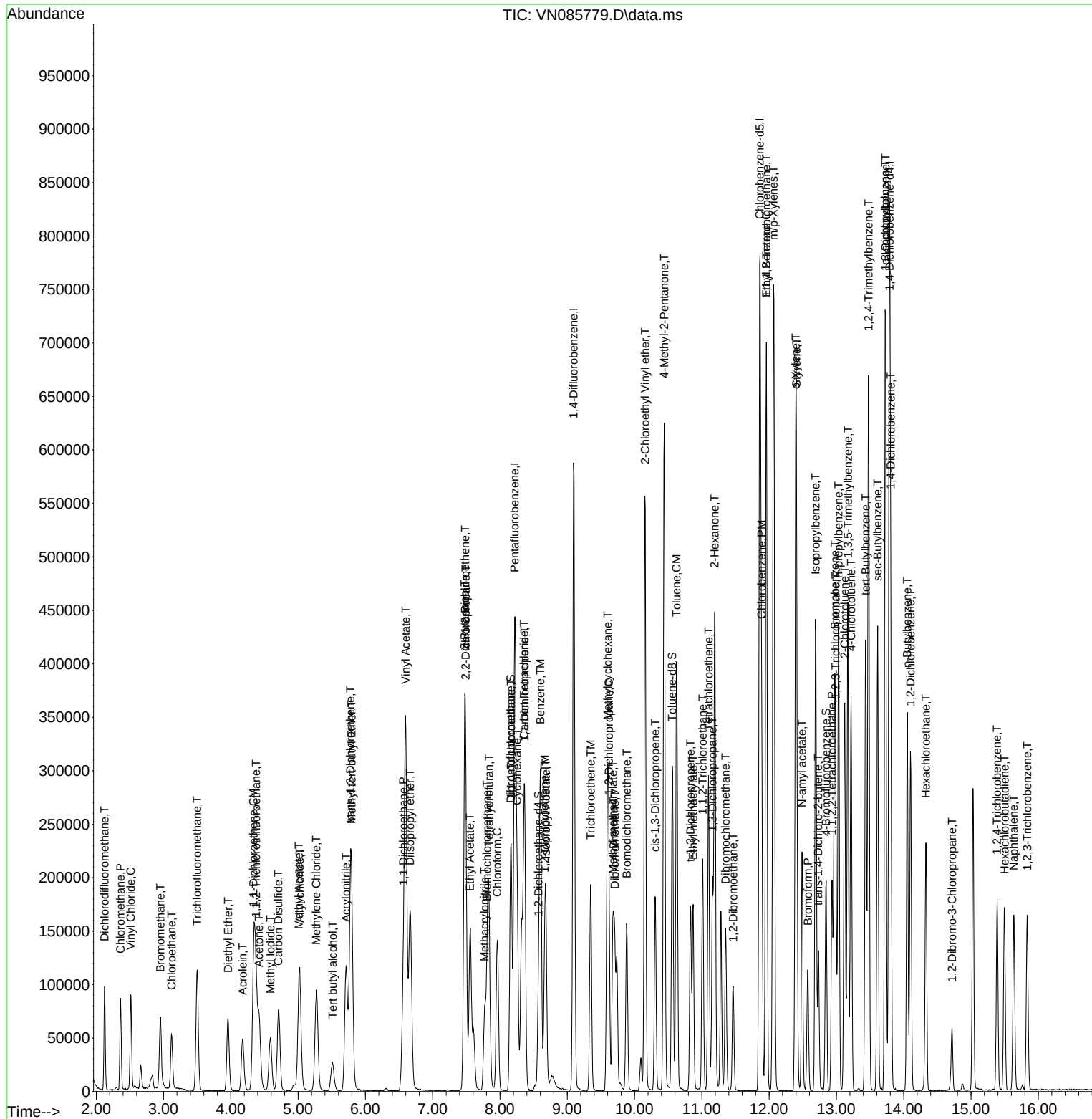
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

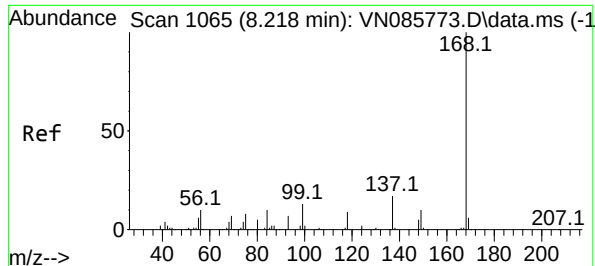
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025





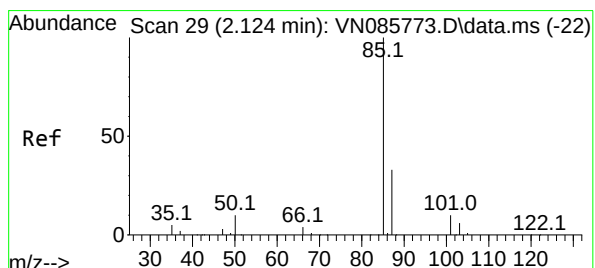
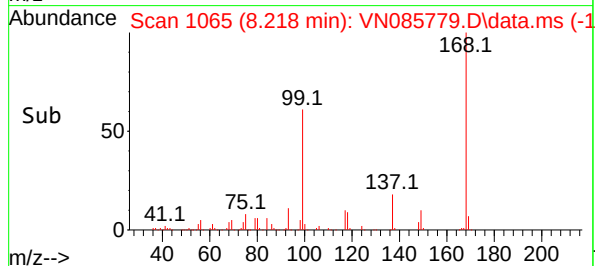
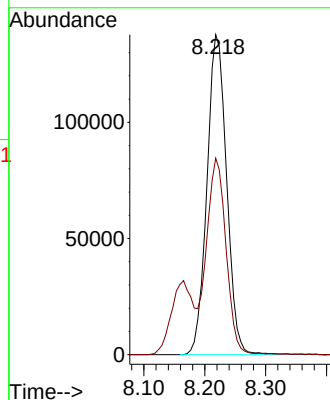
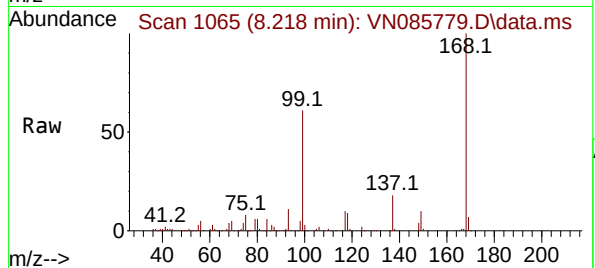
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 309020
Ion Ratio Lower Upper
168 100
99 61.3 47.9 71.9

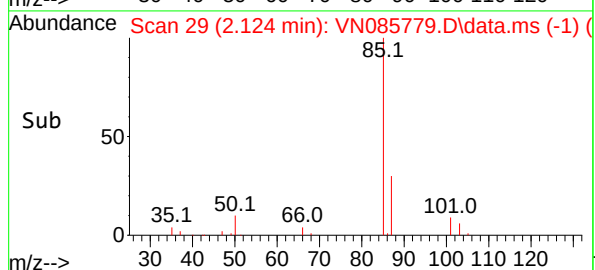
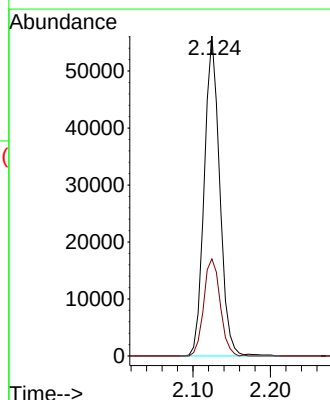
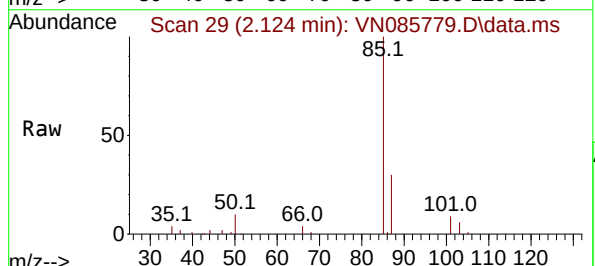
Manual Integrations
APPROVED

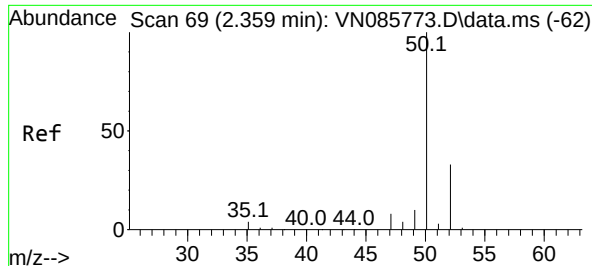
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 18.478 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 85 Resp: 77669
Ion Ratio Lower Upper
85 100
87 30.4 16.4 49.2





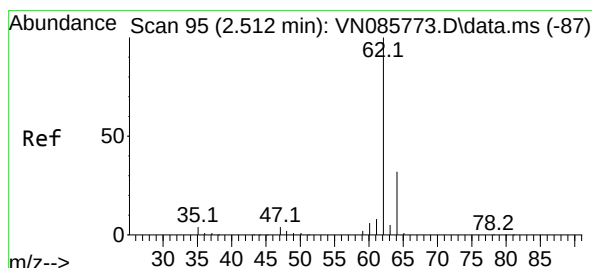
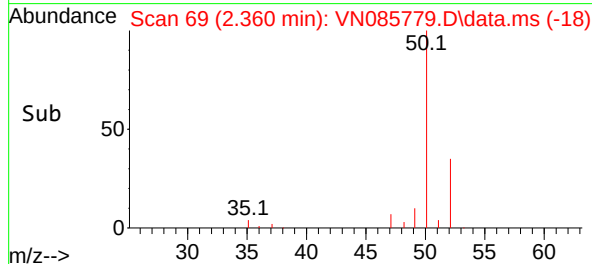
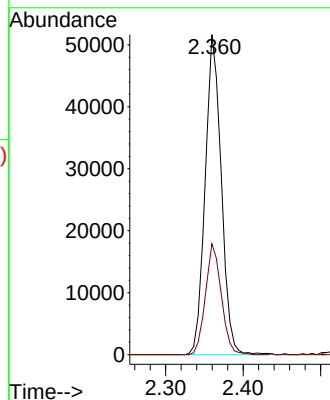
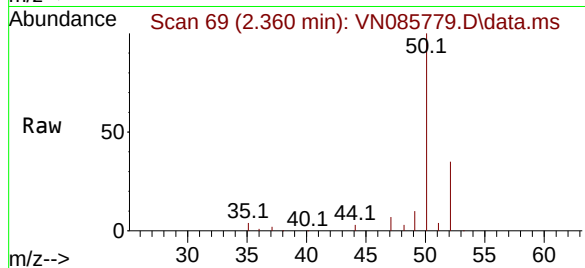
#3
Chloromethane
Concen: 17.710 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 74700
Ion Ratio Lower Upper
50 100
52 34.6 26.7 40.1

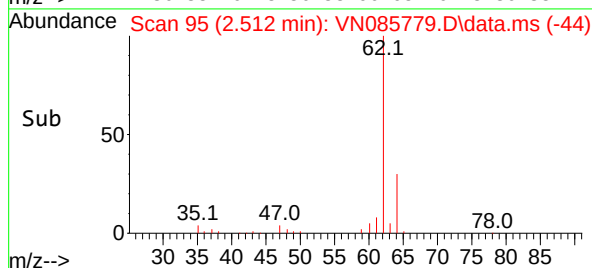
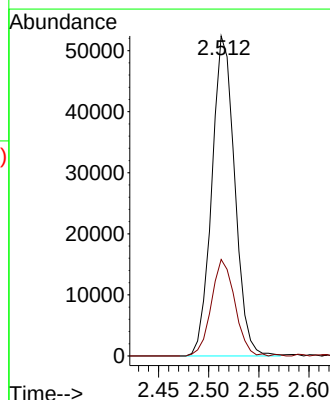
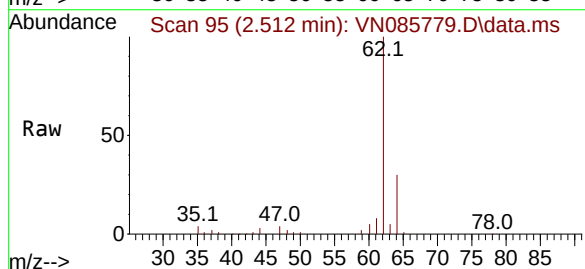
Manual Integrations
APPROVED

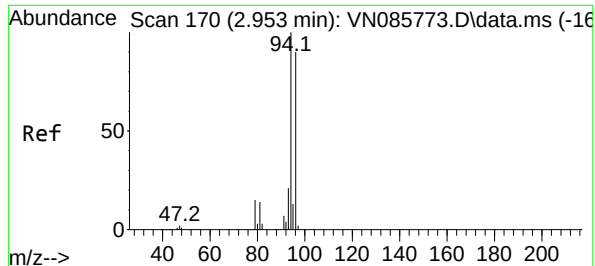
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#4
Vinyl Chloride
Concen: 18.649 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 62 Resp: 83284
Ion Ratio Lower Upper
62 100
64 30.2 25.9 38.9





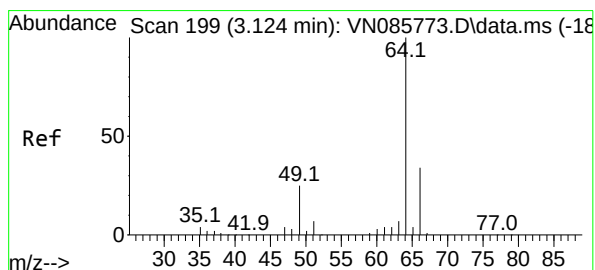
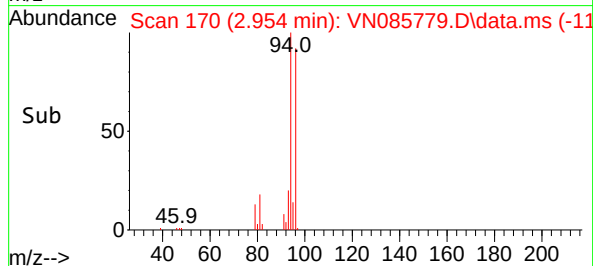
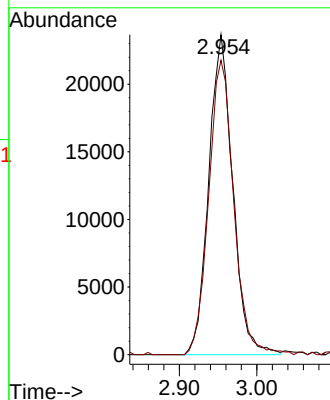
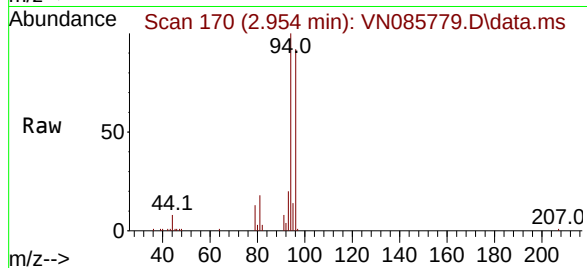
#5
Bromomethane
Concen: 17.884 ug/l
RT: 2.954 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 5106
Ion Ratio Lower Upper
94 100
96 92.0 71.7 107.5

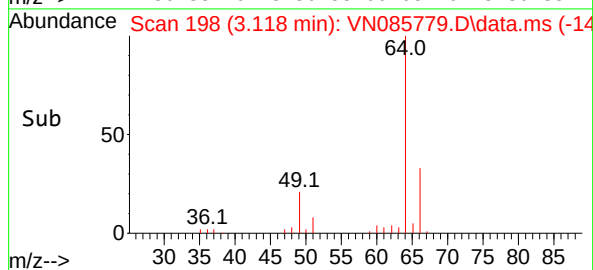
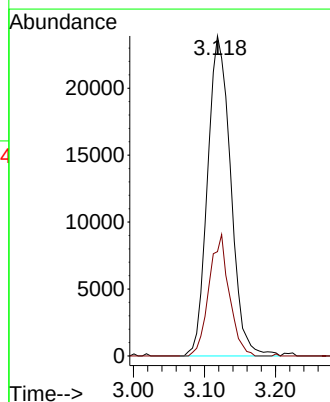
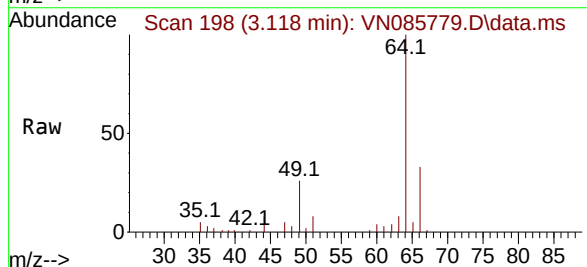
Manual Integrations
APPROVED

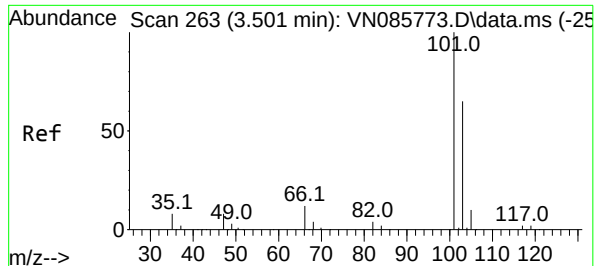
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#6
Chloroethane
Concen: 18.315 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 64 Resp: 54178
Ion Ratio Lower Upper
64 100
66 32.6 27.0 40.6





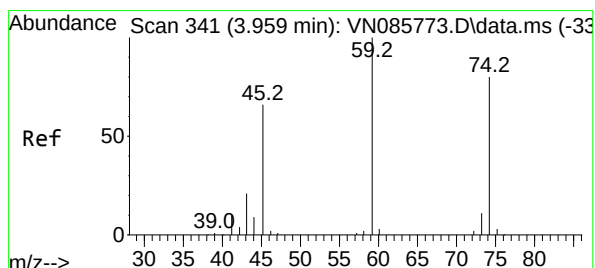
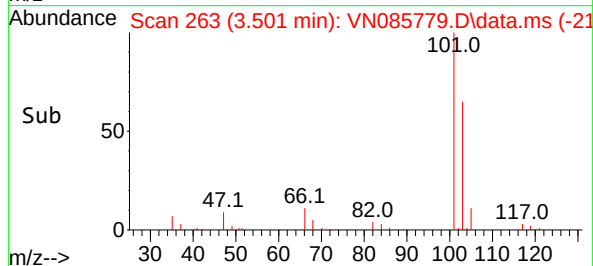
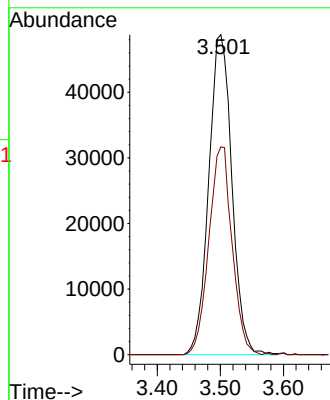
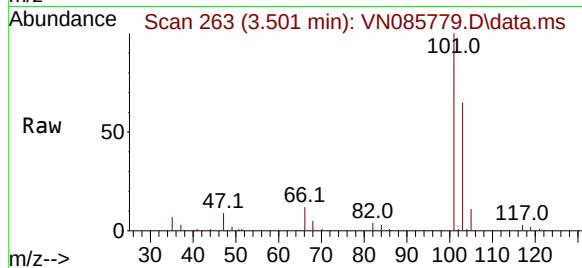
#7
Trichlorofluoromethane
Concen: 19.225 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 124300
Ion Ratio Lower Upper
101 100
103 64.9 52.2 78.4

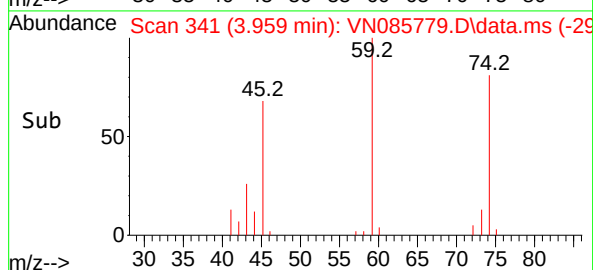
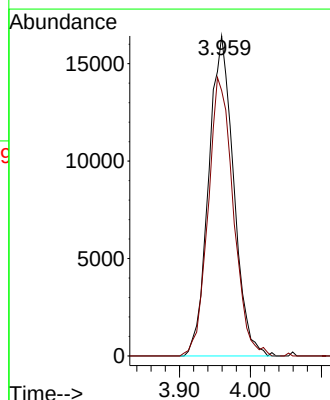
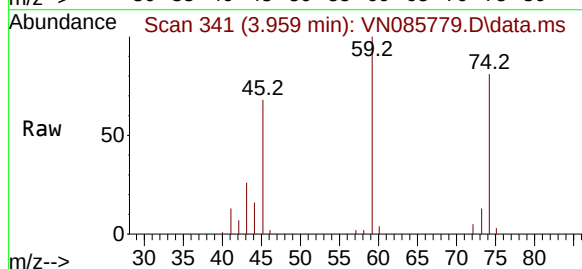
Manual Integrations
APPROVED

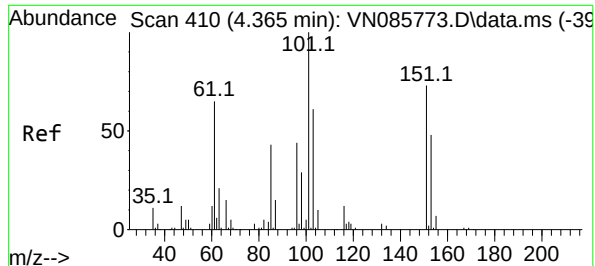
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#8
Diethyl Ether
Concen: 19.221 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 74 Resp: 40213
Ion Ratio Lower Upper
74 100
45 87.5 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.813 ug/l

RT: 4.377 min Scan# 410

Delta R.T. 0.012 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

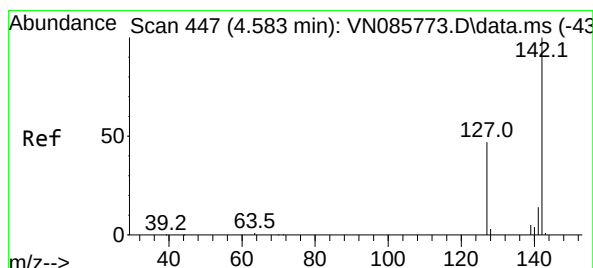
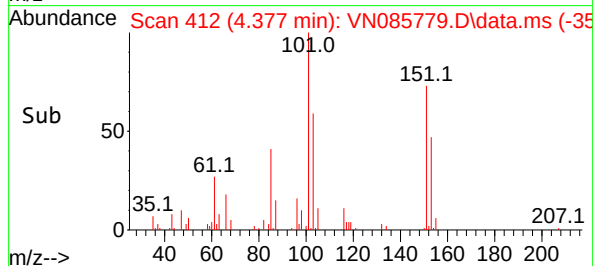
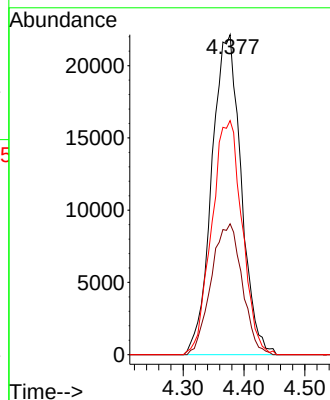
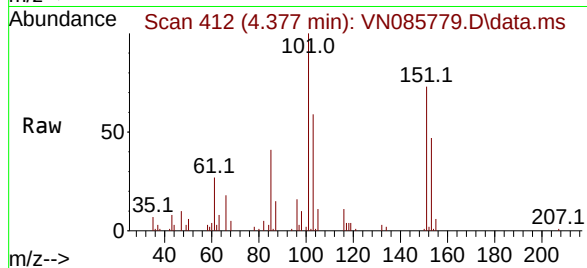
VSTDIC020

Tgt Ion:	101	Resp:	7405
Ion Ratio	Lower	Upper	
101	100		
85	43.1	35.7	53.5
151	75.8	61.4	92.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#10

Methyl Iodide

Concen: 19.093 ug/l

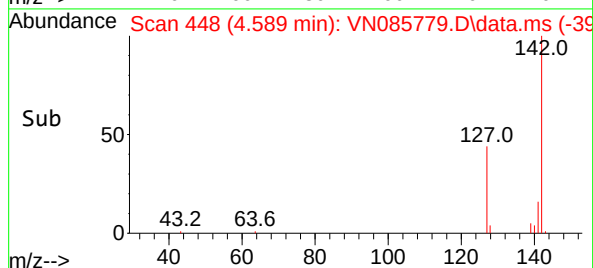
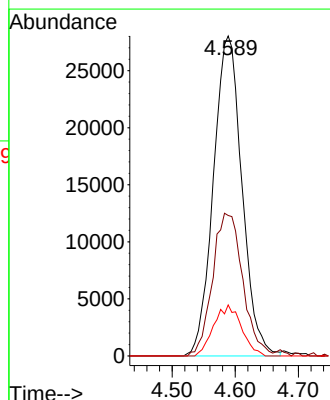
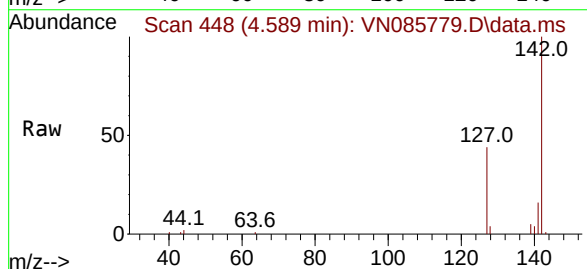
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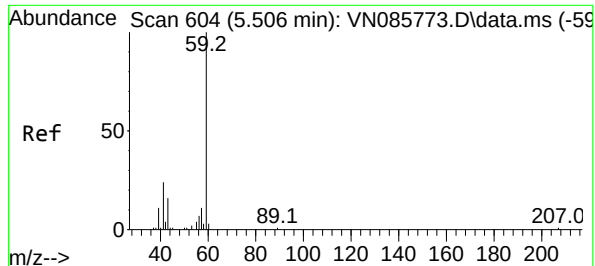
Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	142	Resp:	87963
Ion Ratio	Lower	Upper	
142	100		
127	43.9	37.6	56.4
141	15.9	11.4	17.2





#11

Tert butyl alcohol

Concen: 91.941 ug/l

RT: 5.512 min Scan# 604

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 4530

Ion Ratio Lower Upper

59 100

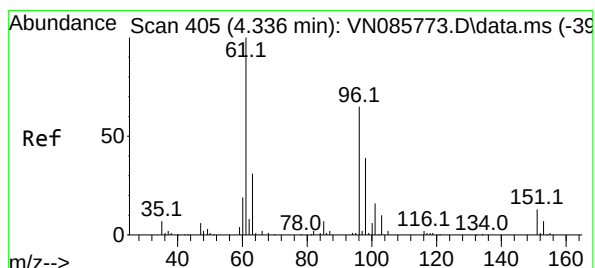
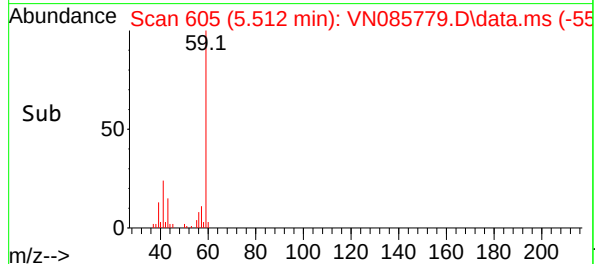
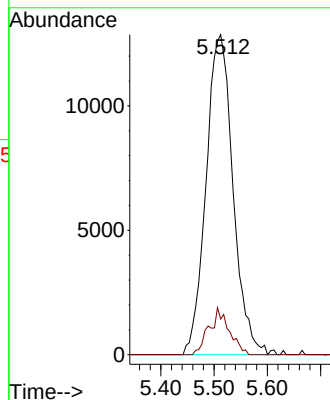
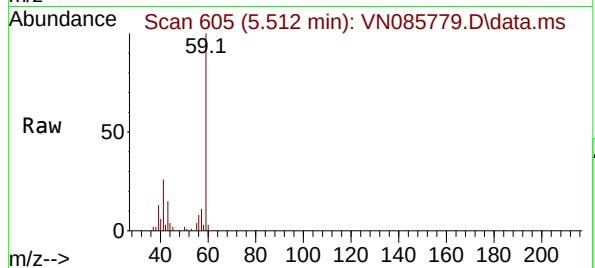
57 10.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#12

1,1-Dichloroethene

Concen: 19.375 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

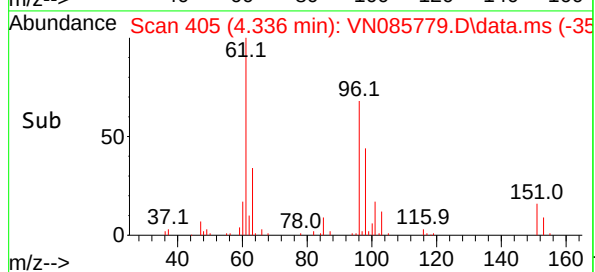
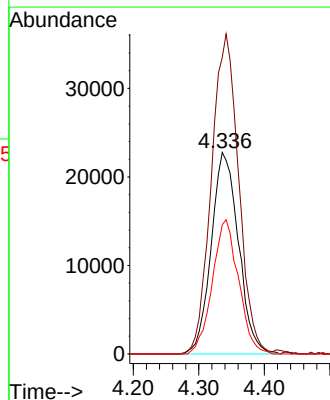
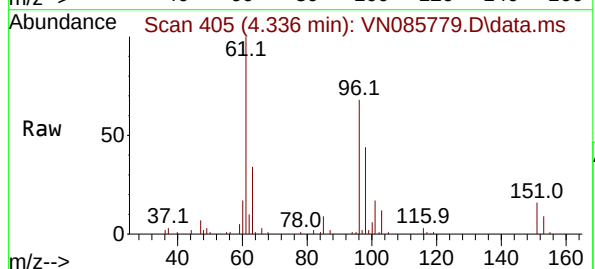
Tgt Ion: 96 Resp: 65660

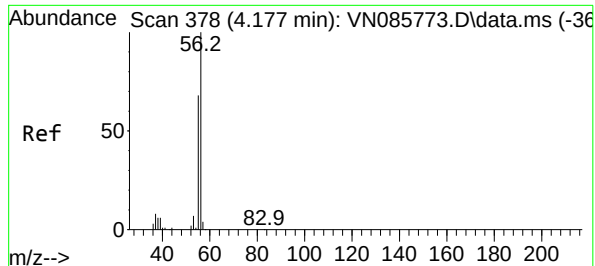
Ion Ratio Lower Upper

96 100

61 147.3 123.3 184.9

98 64.2 48.6 72.8





#13

Acrolein

Concen: 89.078 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 65092

Ion Ratio Lower Upper

56 100

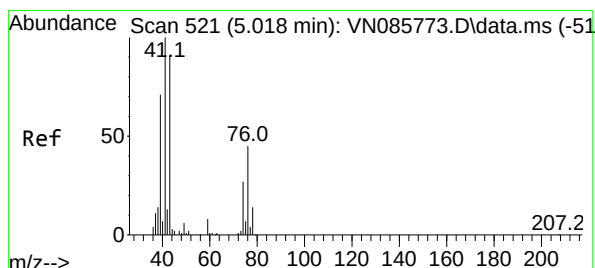
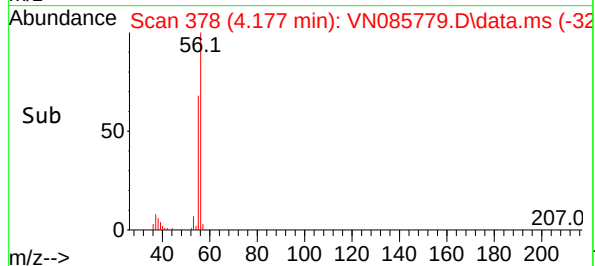
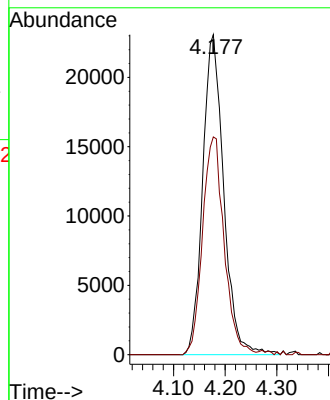
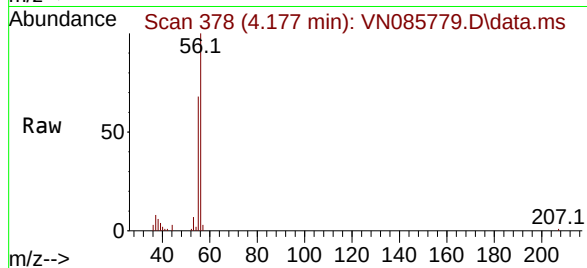
55 69.9 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 19.054 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

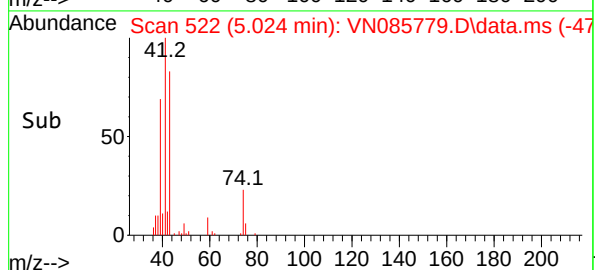
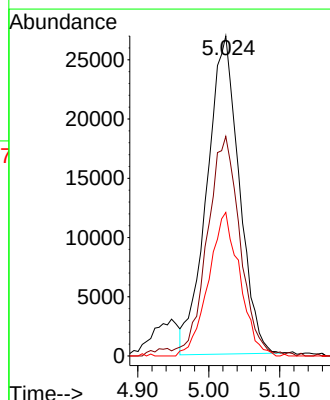
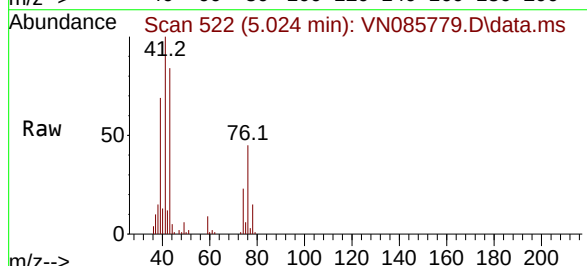
Tgt Ion: 41 Resp: 84778

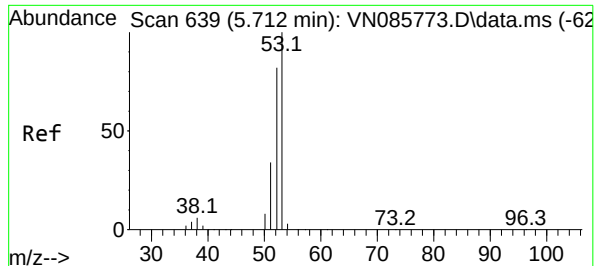
Ion Ratio Lower Upper

41 100

39 70.2 57.4 86.2

76 43.8 36.2 54.2





#15

Acrylonitrile

Concen: 98.787 ug/l

RT: 5.712 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 53 Resp: 158250

Ion Ratio Lower Upper

53 100

52 83.0 65.8 98.6

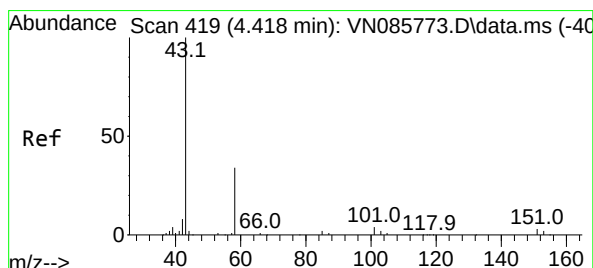
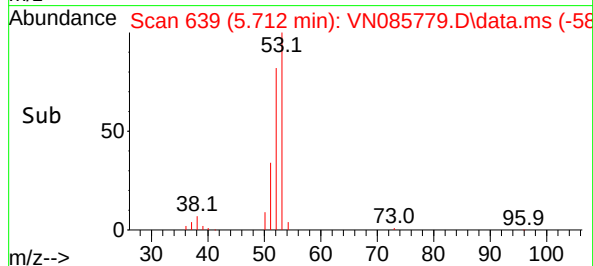
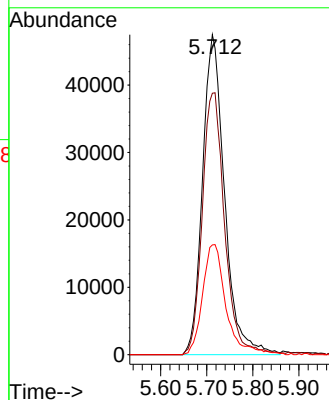
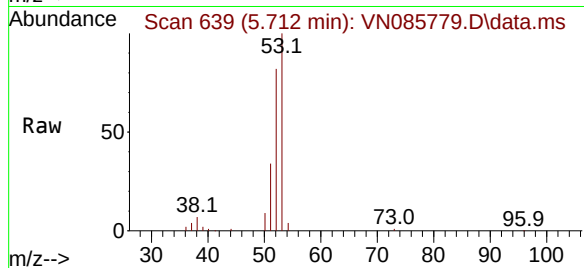
51 36.5 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#16

Acetone

Concen: 96.596 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN085779.D

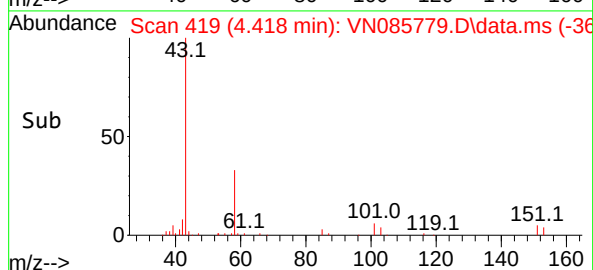
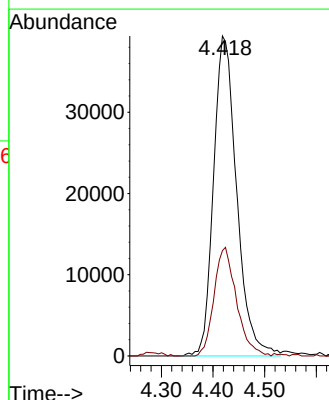
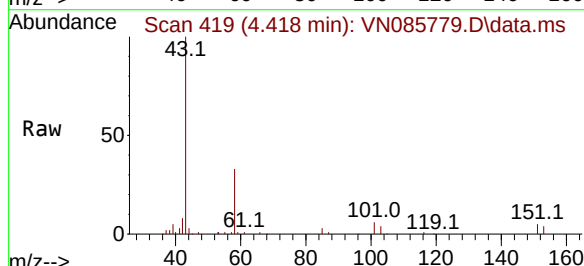
Acq: 18 Feb 2025 14:18

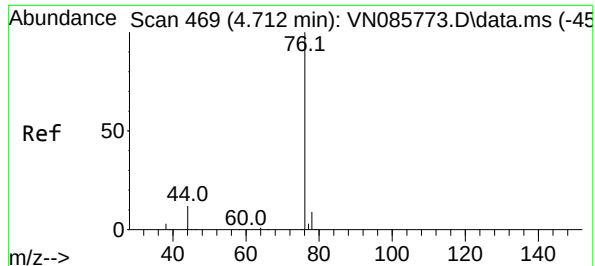
Tgt Ion: 43 Resp: 122455

Ion Ratio Lower Upper

43 100

58 32.9 27.5 41.3





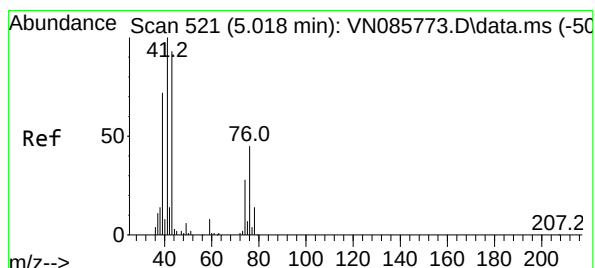
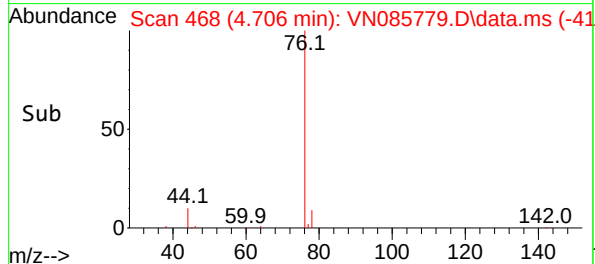
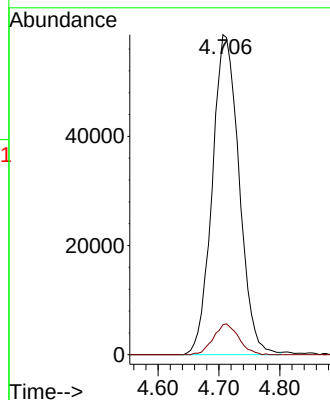
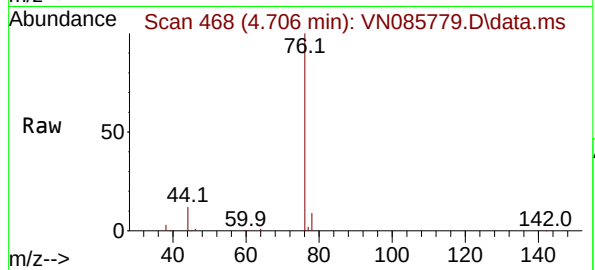
#17
Carbon Disulfide
Concen: 17.910 ug/l
RT: 4.706 min Scan# 40
Delta R.T. -0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 17988
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0

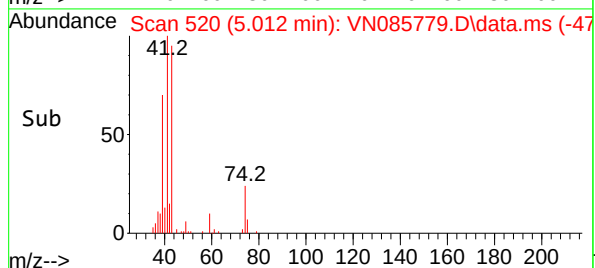
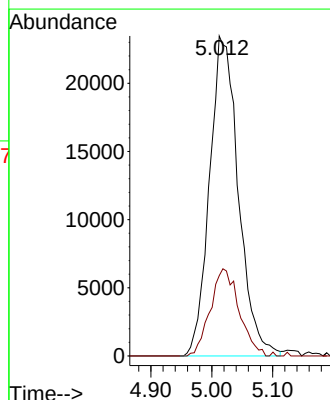
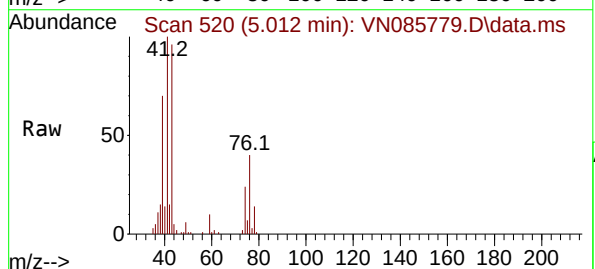
Manual Integrations
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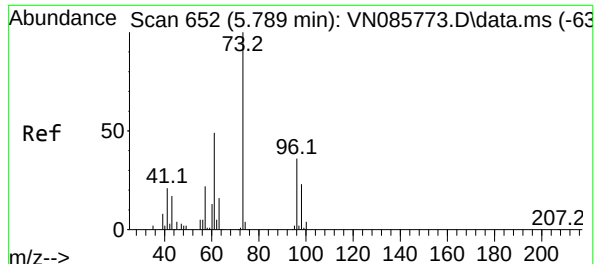
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#18
Methyl Acetate
Concen: 17.712 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 43 Resp: 77229
Ion Ratio Lower Upper
43 100
74 27.2 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 20.362 ug/l

RT: 5.795 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 20504

Ion Ratio Lower Upper

73 100

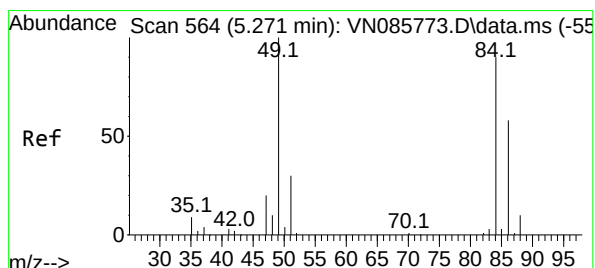
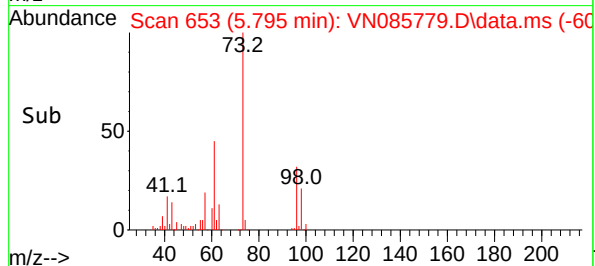
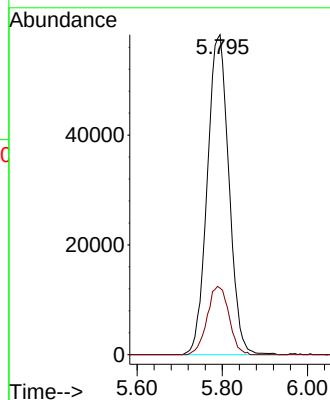
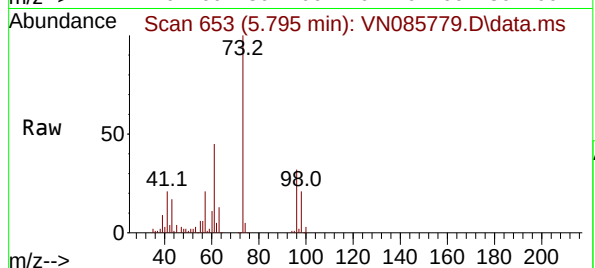
57 20.8 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#20

Methylene Chloride

Concen: 18.963 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion: 84 Resp: 77308

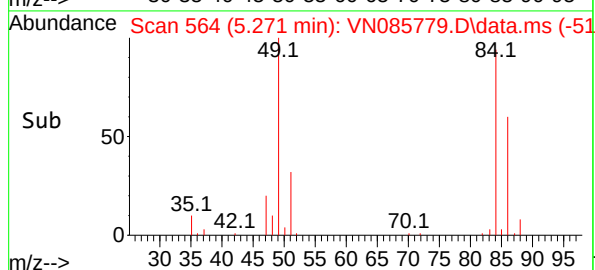
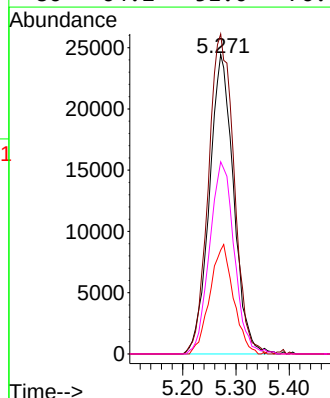
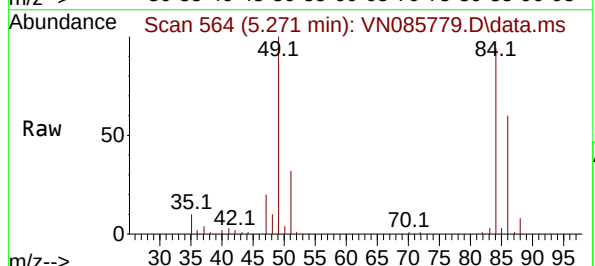
Ion Ratio Lower Upper

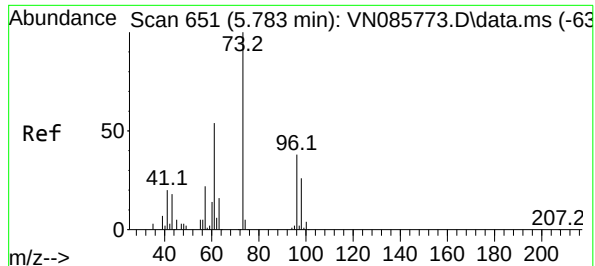
84 100

49 106.9 88.4 132.6

51 34.7 26.6 40.0

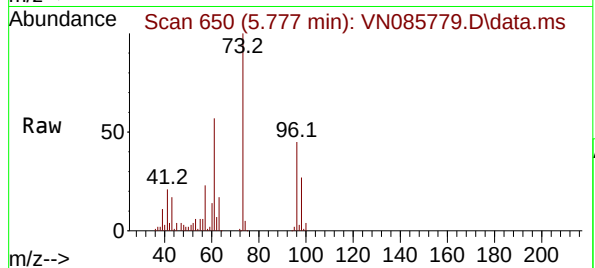
86 64.2 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 19.162 ug/l
RT: 5.777 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

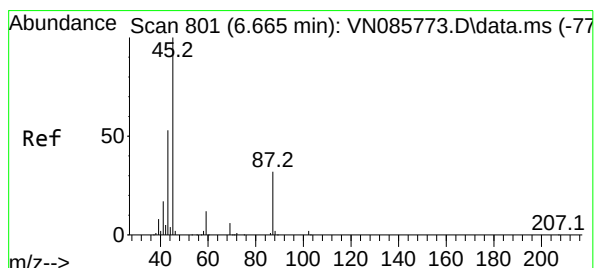
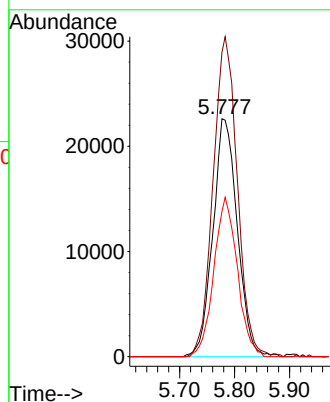
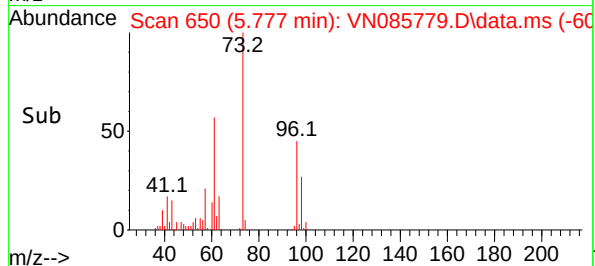
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 69924
Ion Ratio Lower Upper
96 100
61 127.9 112.6 168.8
98 61.0 53.3 79.9

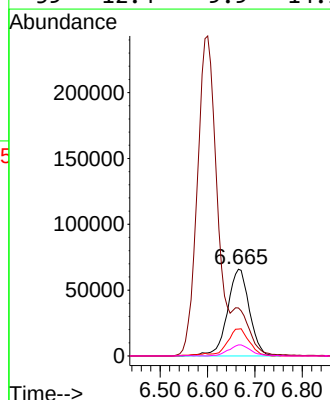
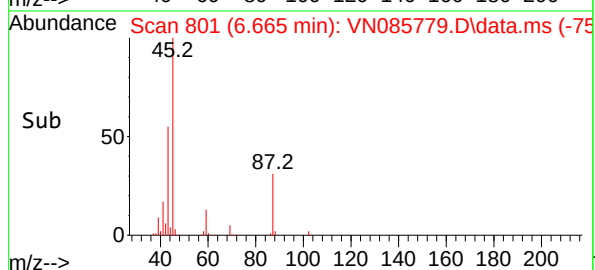
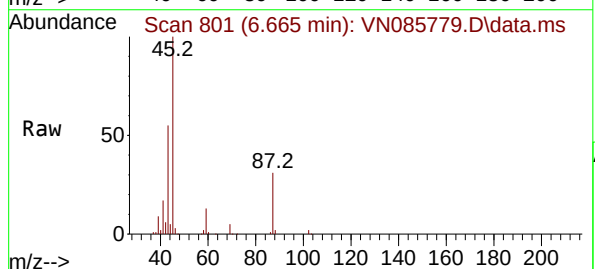
Manual Integrations
APPROVED

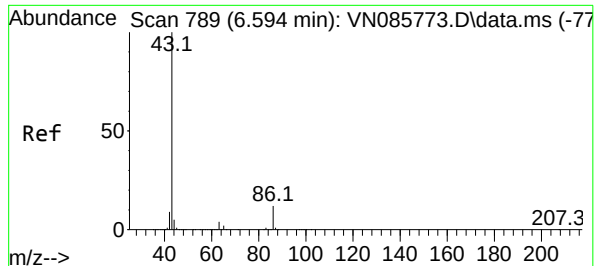
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 21.095 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 45 Resp: 212086
Ion Ratio Lower Upper
45 100
43 53.6 42.6 64.0
87 31.0 25.8 38.8
59 12.4 9.9 14.9





#23

Vinyl Acetate

Concen: 101.409 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 69594

Ion Ratio Lower Upper

43 100

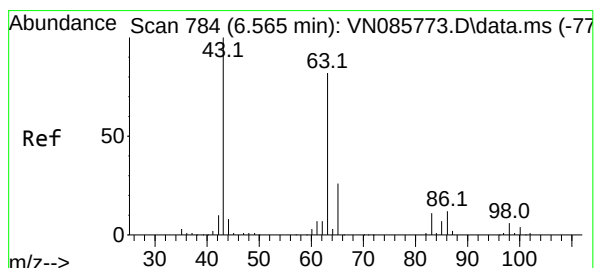
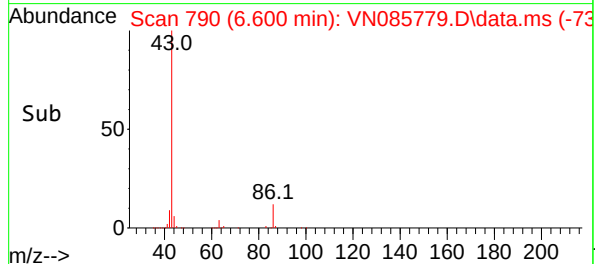
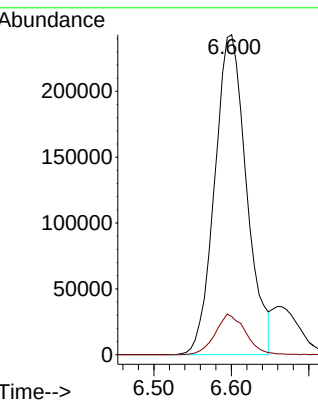
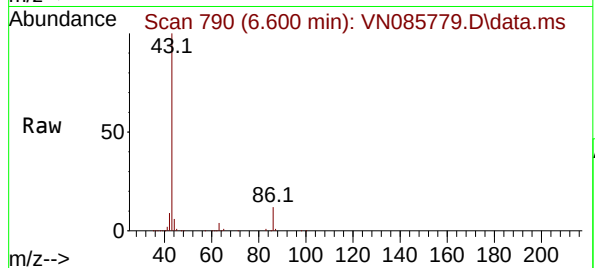
86 11.9 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#24

1,1-Dichloroethane

Concen: 19.697 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

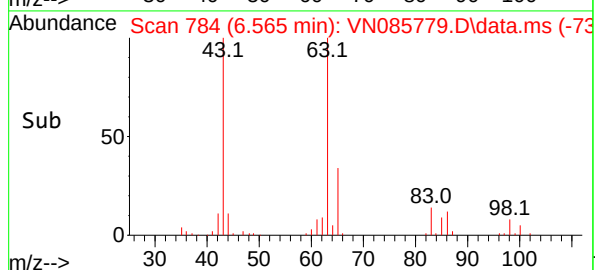
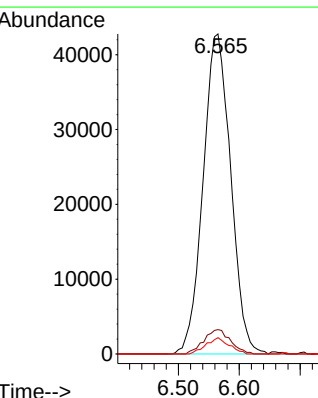
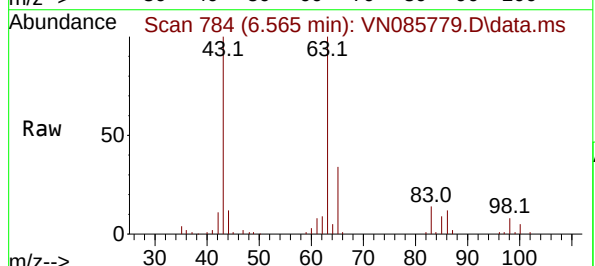
Tgt Ion: 63 Resp: 134620

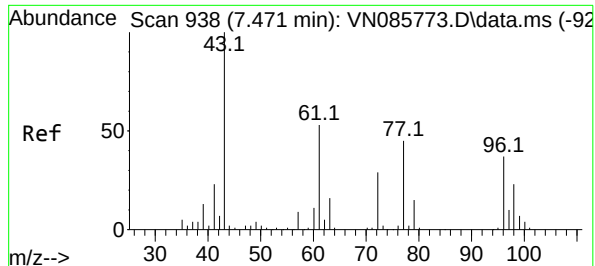
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.4

100 5.1 2.4 7.2





#25

2-Butanone

Concen: 99.012 ug/l

RT: 7.477 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 184659

Ion Ratio Lower Upper

43 100

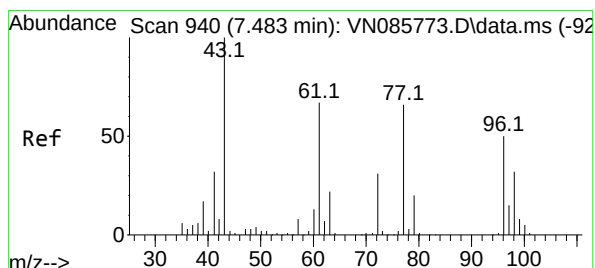
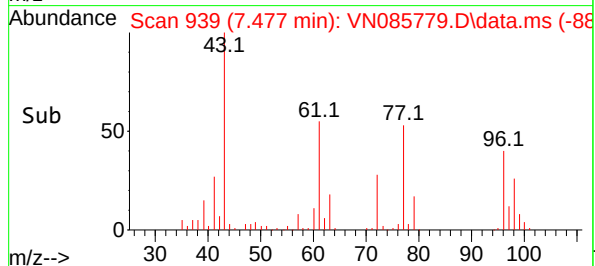
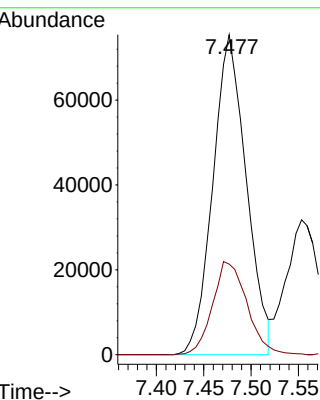
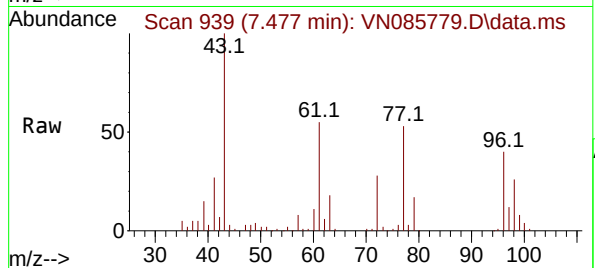
72 28.3 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#26

2,2-Dichloropropane

Concen: 19.752 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085779.D

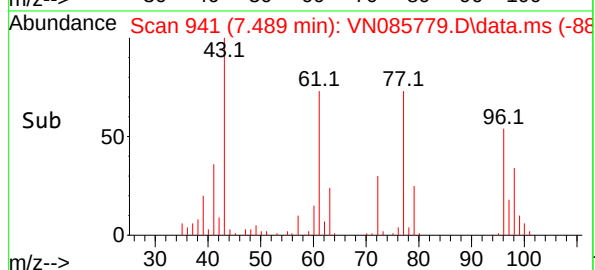
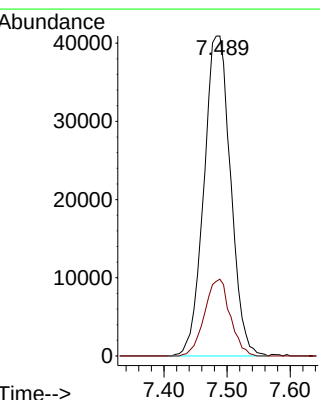
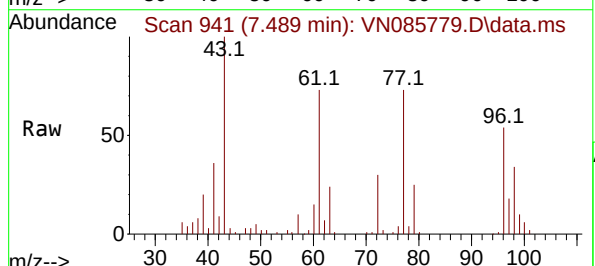
Acq: 18 Feb 2025 14:18

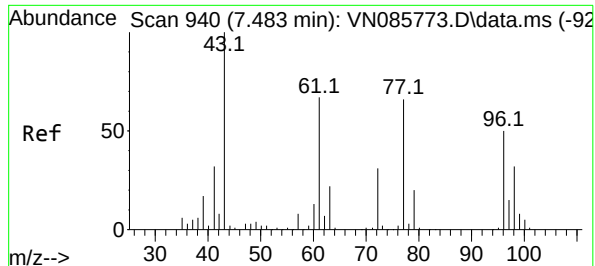
Tgt Ion: 77 Resp: 120039

Ion Ratio Lower Upper

77 100

97 23.1 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 19.590 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 8288

Ion Ratio Lower Upper

96 100

61 139.2 0.0 280.6

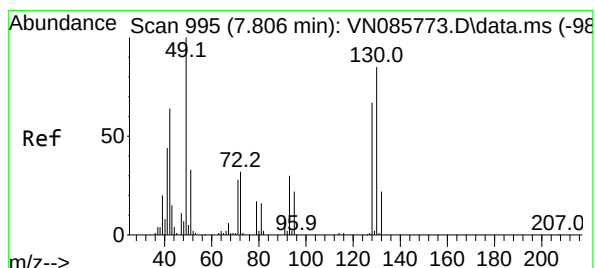
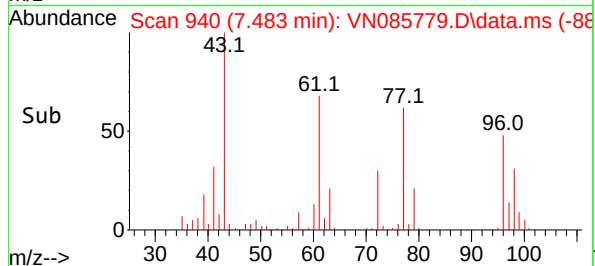
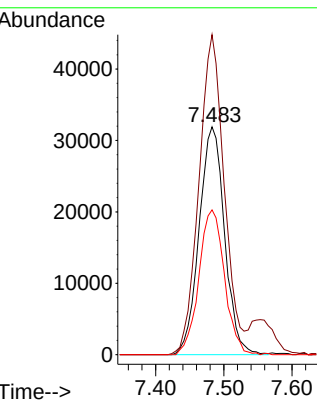
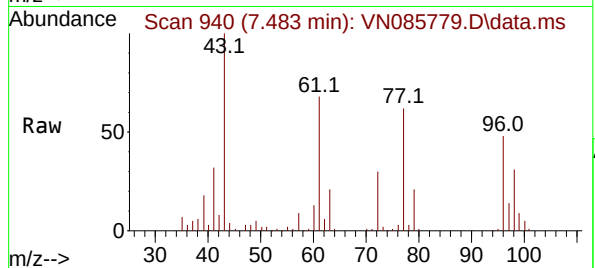
98 63.9 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 17.678 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

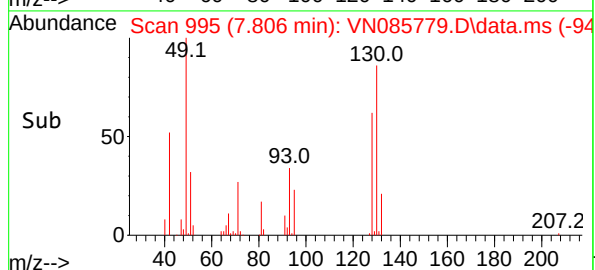
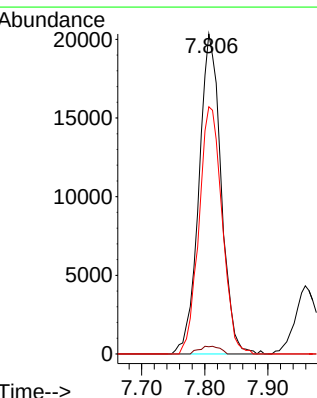
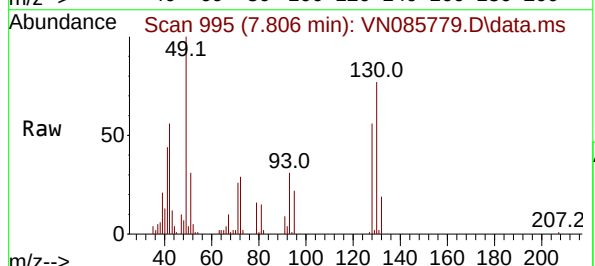
Tgt Ion: 49 Resp: 49657

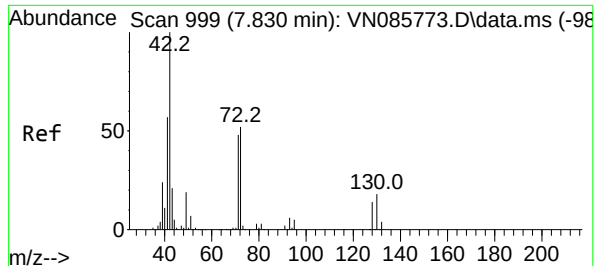
Ion Ratio Lower Upper

49 100

129 2.3 0.0 3.8

130 80.5 68.0 102.0





#29

Tetrahydrofuran

Concen: 104.482 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 12583

Ion Ratio Lower Upper

42 100

72 50.0 40.0 60.0

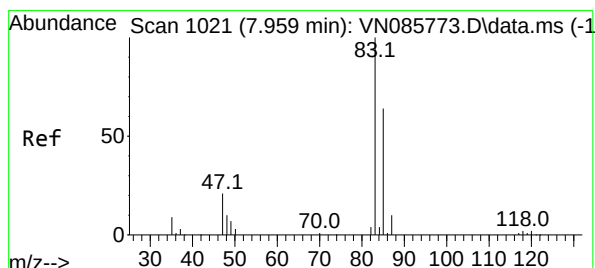
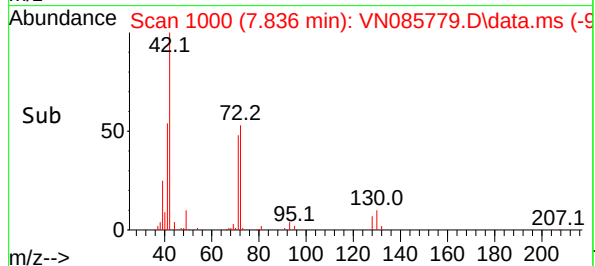
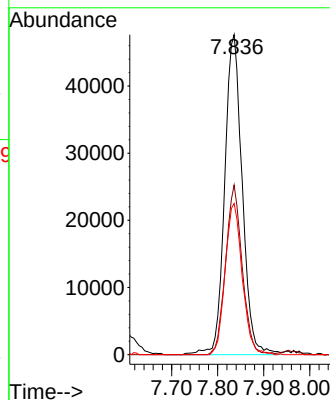
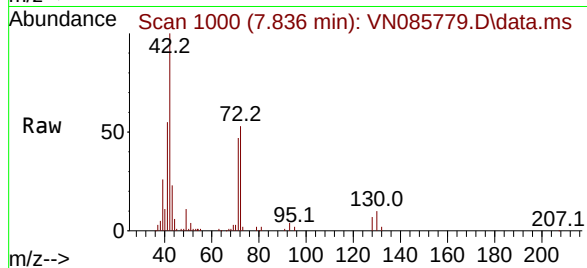
71 46.0 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 19.750 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085779.D

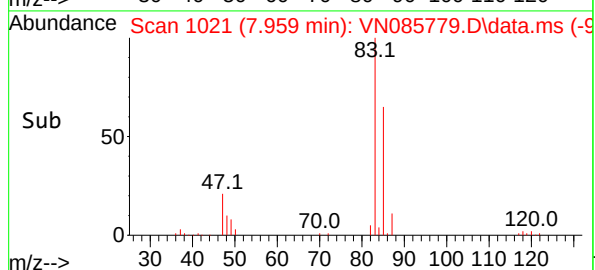
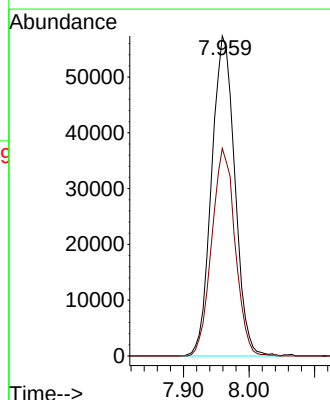
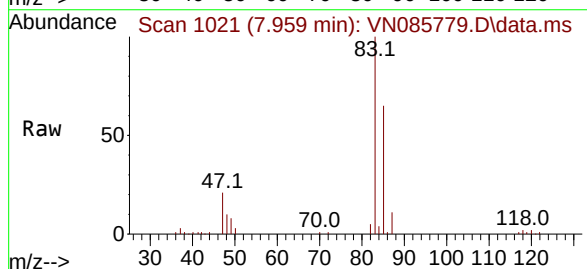
Acq: 18 Feb 2025 14:18

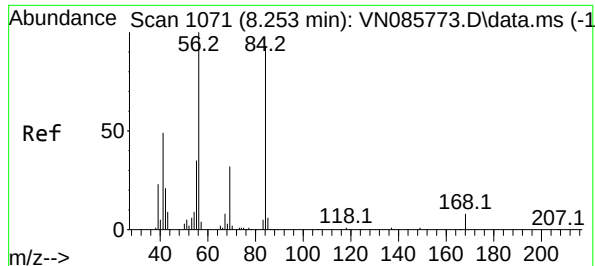
Tgt Ion: 83 Resp: 141059

Ion Ratio Lower Upper

83 100

85 64.9 50.9 76.3





#31

Cyclohexane

Concen: 18.525 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

Client Sample Id :

VSTDIC020

Tgt Ion: 56 Resp: 106009

Ion Ratio Lower Upper

56 100

69 34.9 25.8 38.6

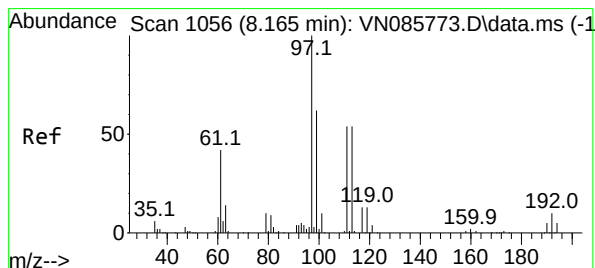
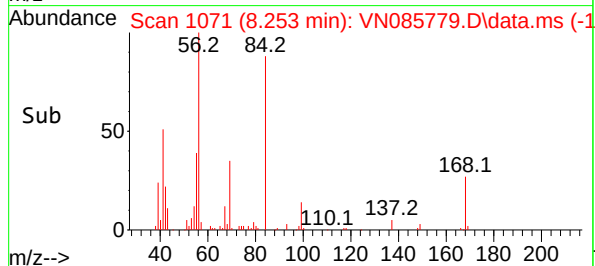
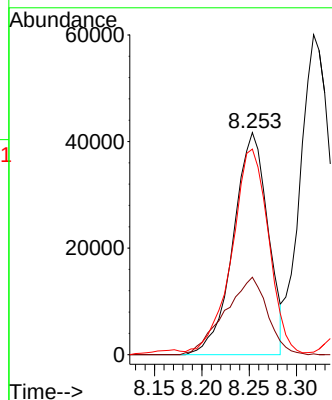
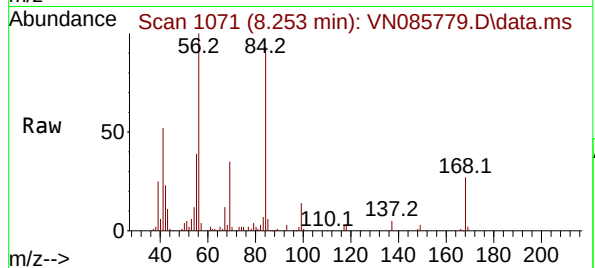
84 91.1 74.5 111.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#32

1,1,1-Trichloroethane

Concen: 19.686 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

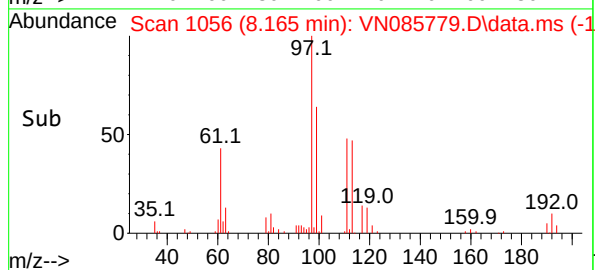
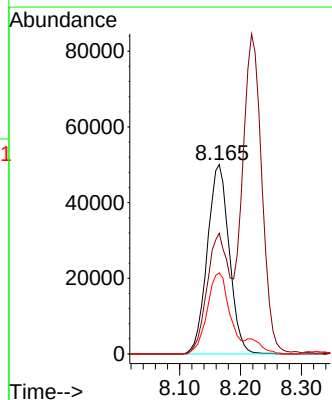
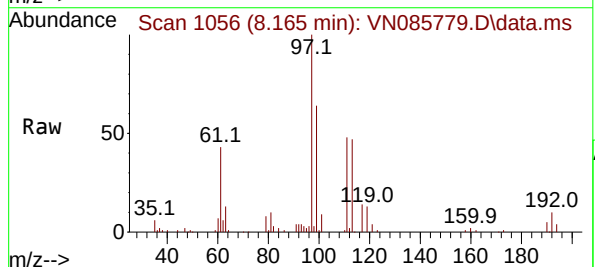
Tgt Ion: 97 Resp: 125061

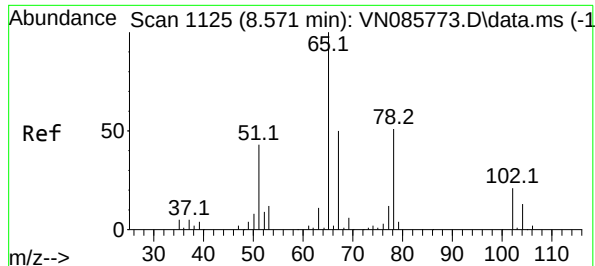
Ion Ratio Lower Upper

97 100

99 65.6 50.4 75.6

61 44.4 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 17.751 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 7111

Ion Ratio Lower Upper

65 100

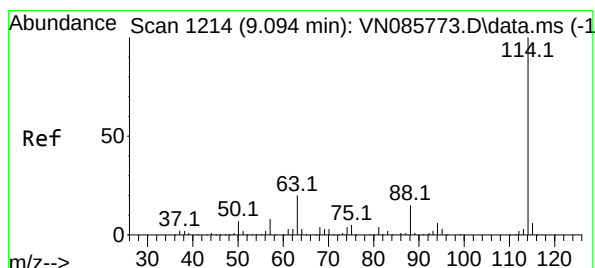
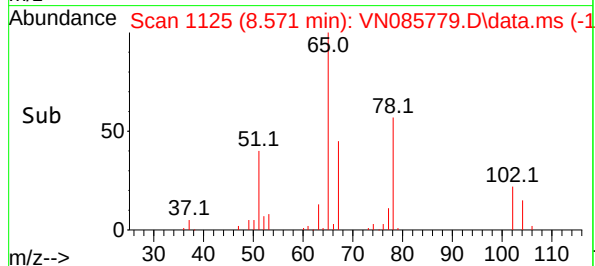
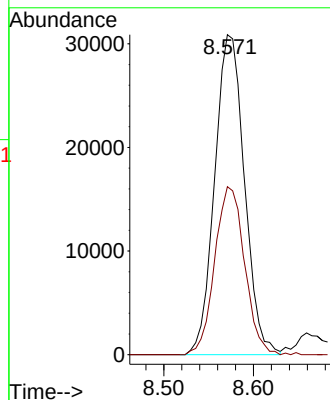
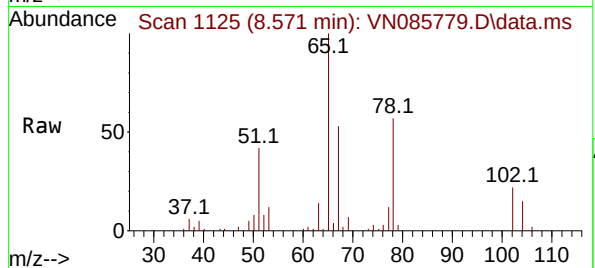
67 52.6 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

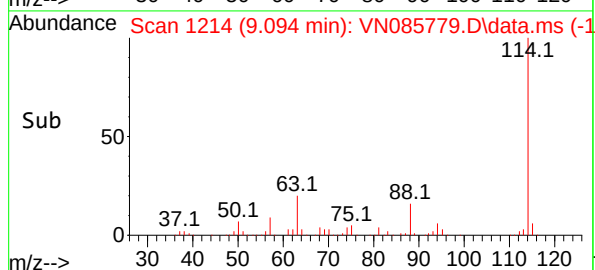
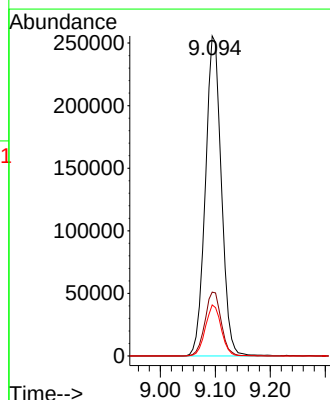
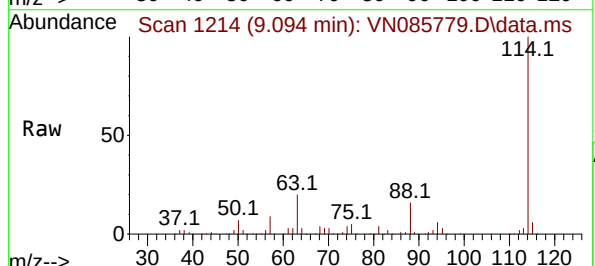
Tgt Ion:114 Resp: 515996

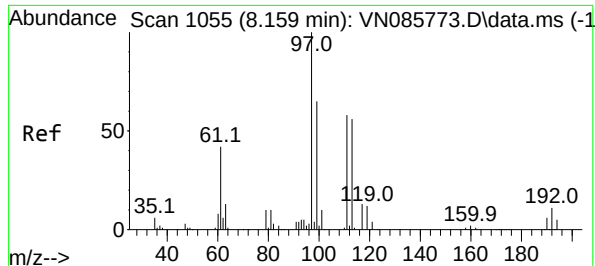
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.2

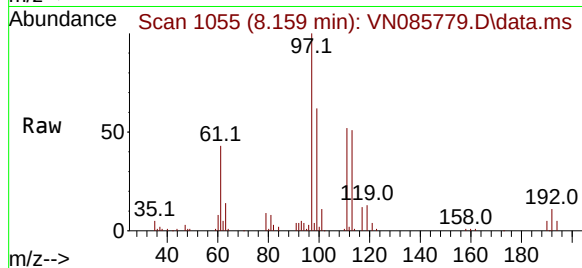
88 16.0 0.0 30.0





#35
Dibromofluoromethane
Concen: 17.903 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

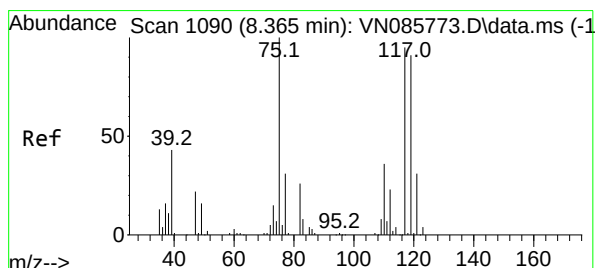
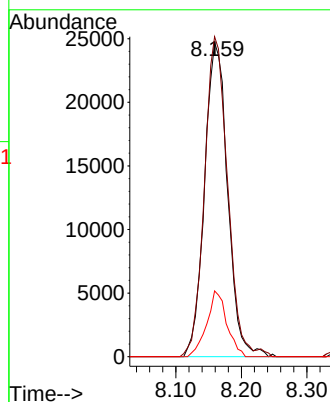
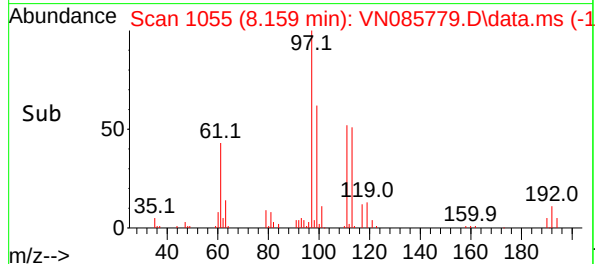
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 113 Resp: 6044
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.4
192 18.2 14.7 22.1

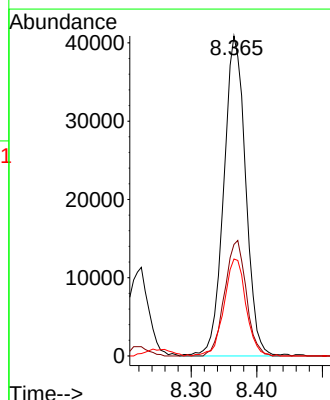
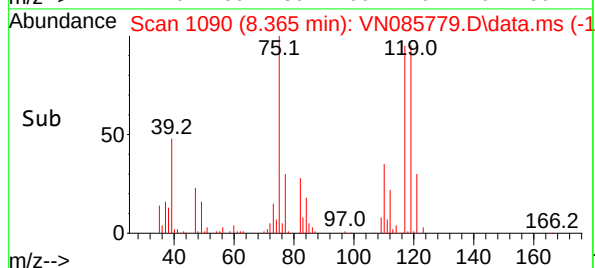
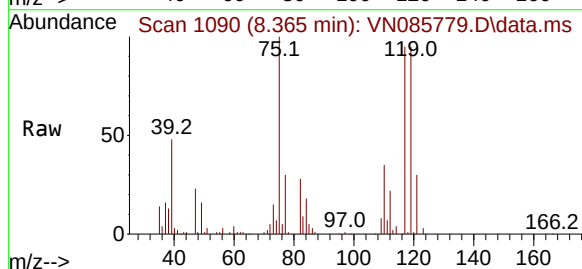
Manual Integrations
APPROVED

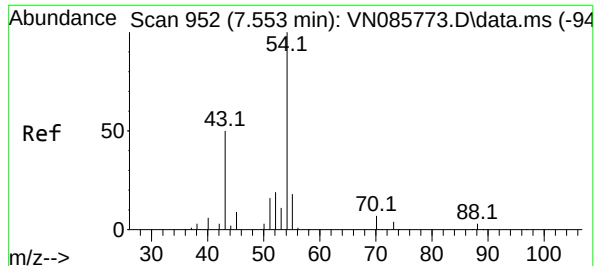
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#36
1,1-Dichloropropene
Concen: 19.772 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 75 Resp: 94481
Ion Ratio Lower Upper
75 100
110 35.6 17.3 52.0
77 30.5 24.6 37.0





#37

Ethyl Acetate

Concen: 20.780 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

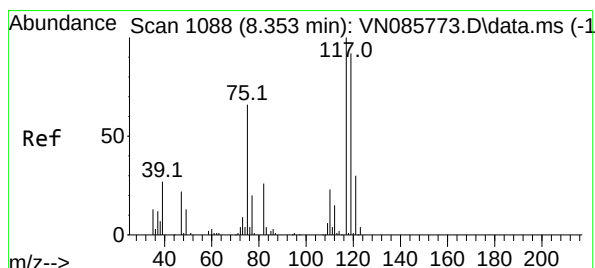
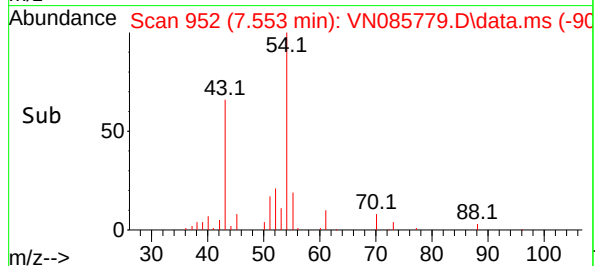
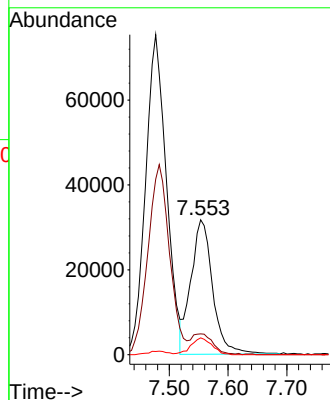
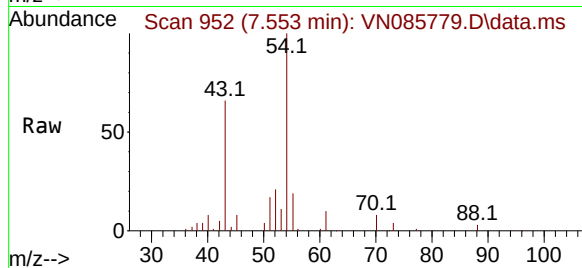
ClientSampleId :

VSTDICC020

Tgt Ion:	43	Resp:	81710
Ion	Ratio	Lower	Upper
43	100		
61	15.7	12.2	18.2
70	12.0	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#38

Carbon Tetrachloride

Concen: 19.574 ug/l

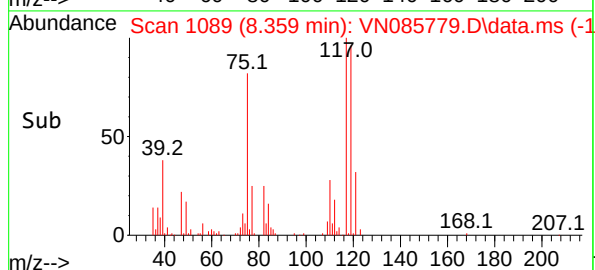
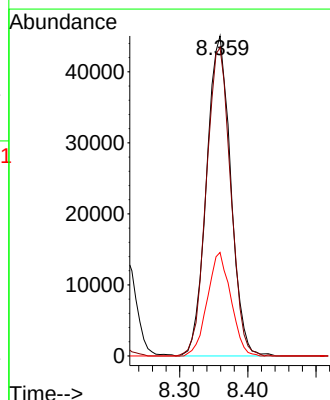
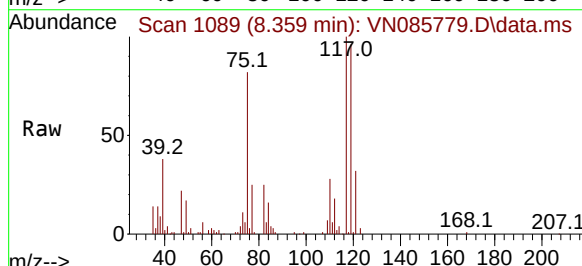
RT: 8.359 min Scan# 1089

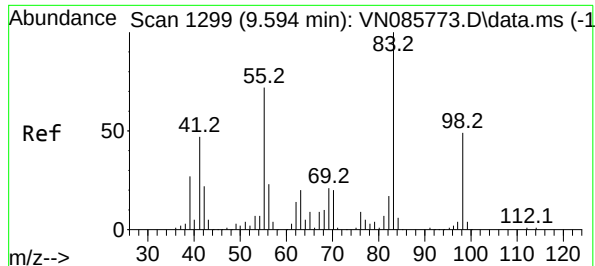
Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	117	Resp:	111137
Ion	Ratio	Lower	Upper
117	100		
119	96.4	73.8	110.6
121	32.4	24.3	36.5





#39

Methylcyclohexane

Concen: 19.907 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

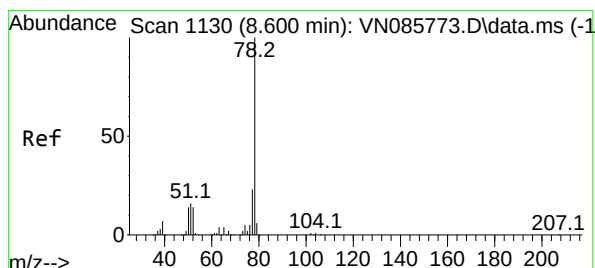
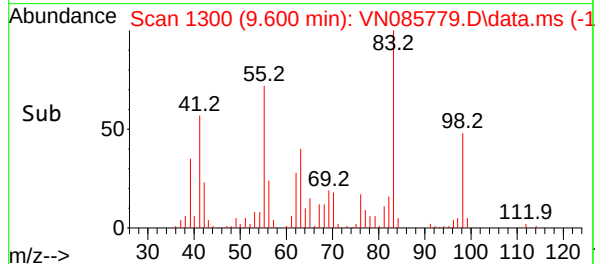
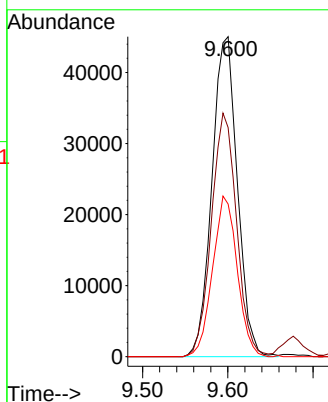
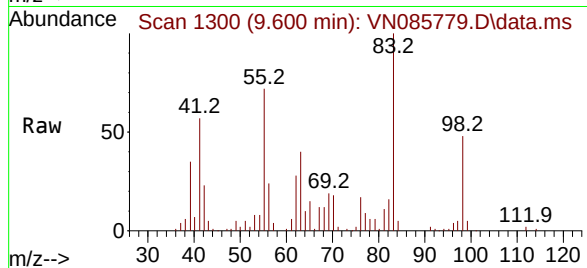
VSTDICC020

Tgt Ion	83	Resp	9345
Ion Ratio	Lower	Upper	
83	100		
55	71.6	57.5	86.3
98	47.7	39.2	58.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#40

Benzene

Concen: 19.863 ug/l

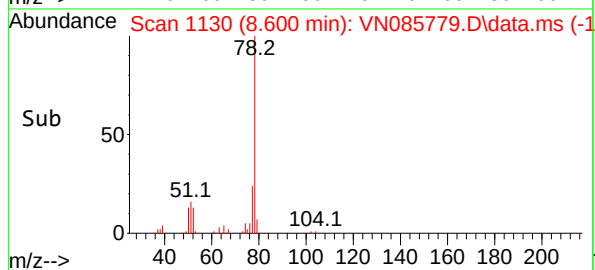
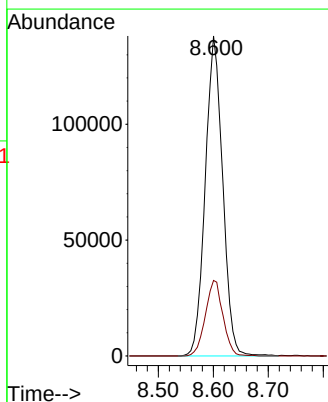
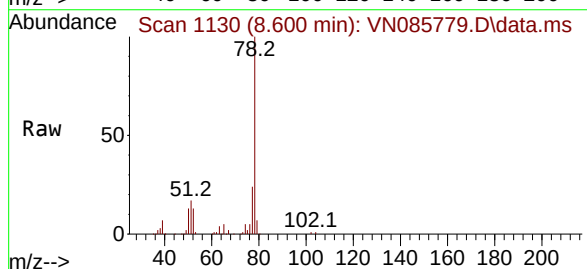
RT: 8.600 min Scan# 1130

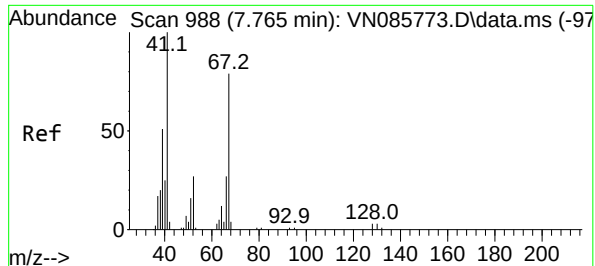
Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion	78	Resp	304209
Ion Ratio	Lower	Upper	
78	100		
77	23.6	18.3	27.5





#41

Methacrylonitrile

Concen: 20.724 ug/l

RT: 7.771 min Scan# 988

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 41 Resp: 4356

Ion Ratio Lower Upper

41 100

39 53.7 42.0 63.0

67 79.2 64.2 96.4

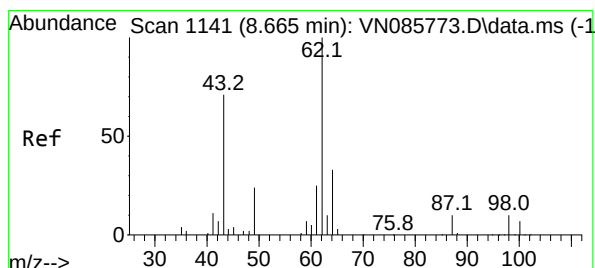
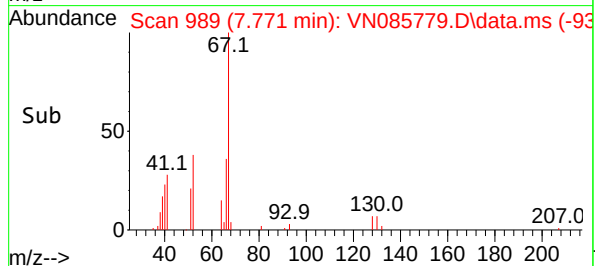
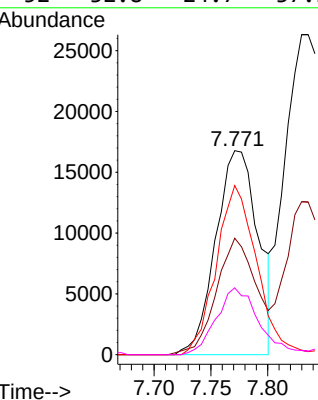
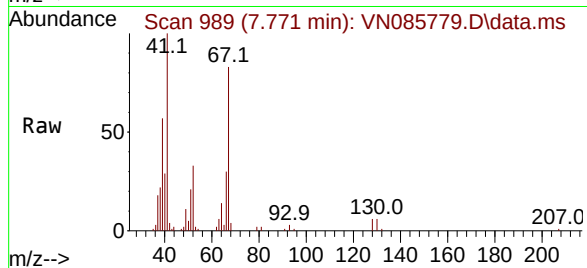
52 32.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#42

1,2-Dichloroethane

Concen: 19.975 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085779.D

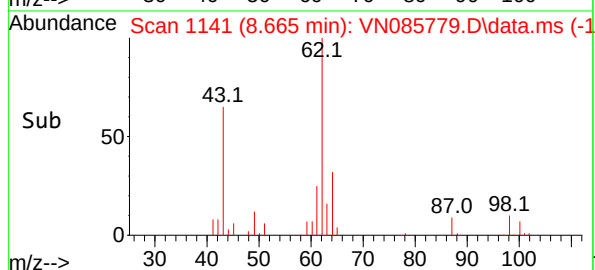
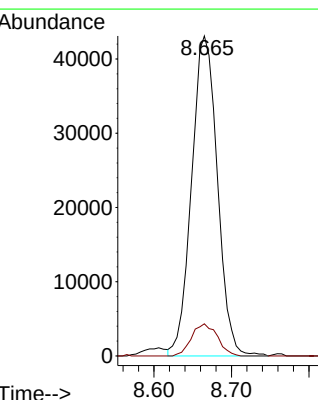
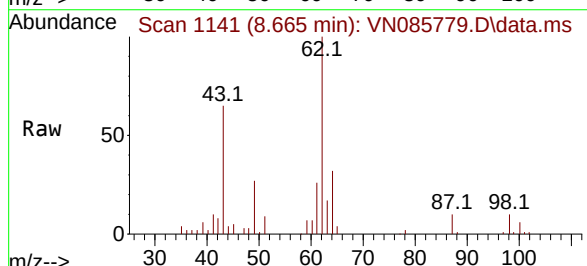
Acq: 18 Feb 2025 14:18

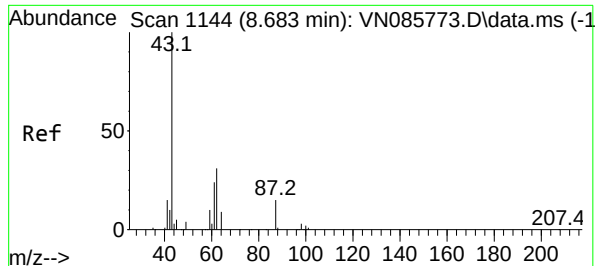
Tgt Ion: 62 Resp: 99651

Ion Ratio Lower Upper

62 100

98 10.1 0.0 19.6





#43

Isopropyl Acetate

Concen: 19.709 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

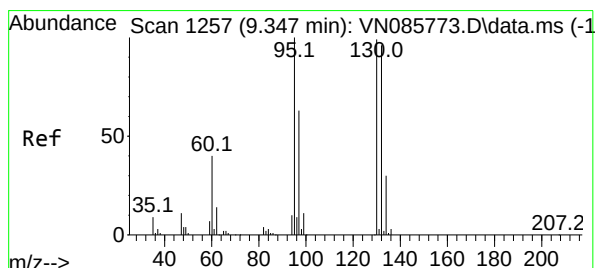
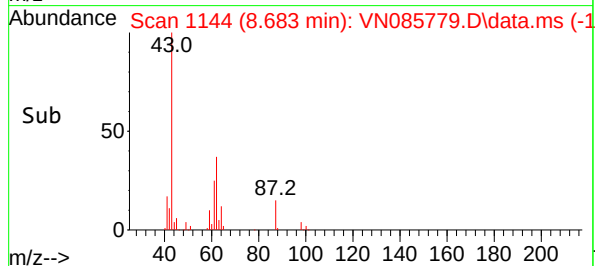
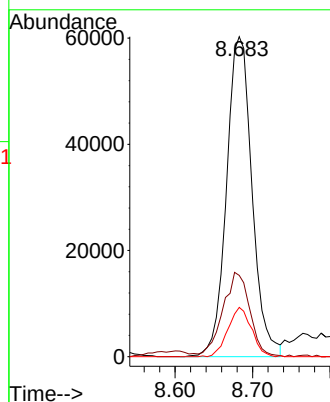
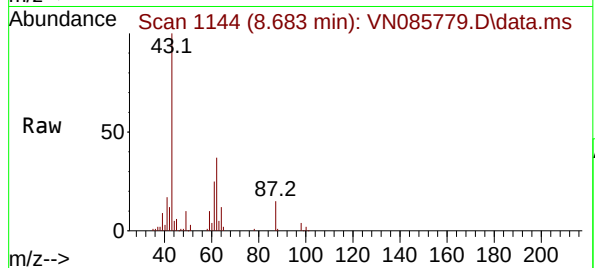
VSTDIC020

Tgt Ion:	43	Resp:	138304
Ion	Ratio	Lower	Upper
43	100		
61	27.8	22.6	34.0
87	14.2	11.8	17.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#44

Trichloroethene

Concen: 19.085 ug/l

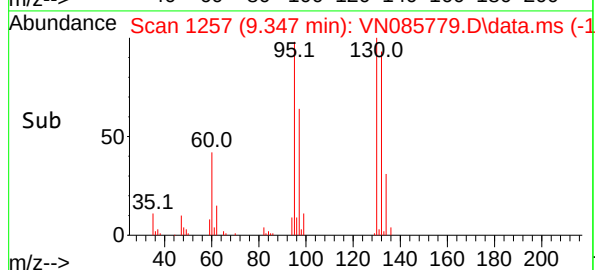
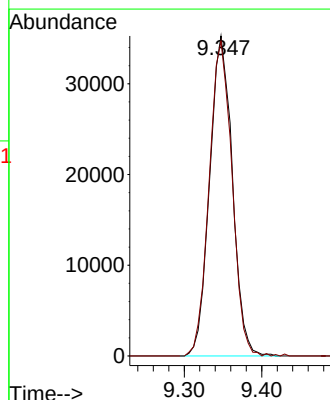
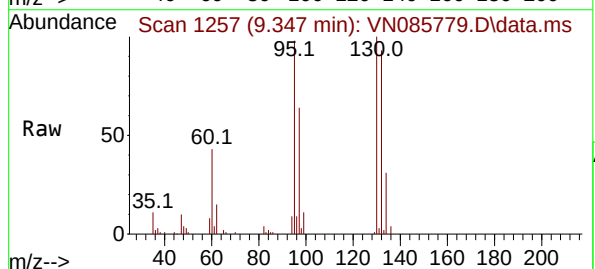
RT: 9.347 min Scan# 1257

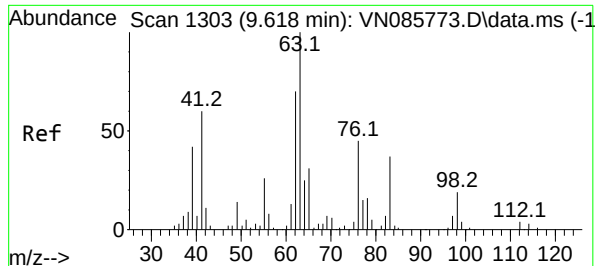
Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	130	Resp:	71769
Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	202.6





#45

1,2-Dichloropropane

Concen: 19.947 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 7374

Ion Ratio Lower Upper

63 100

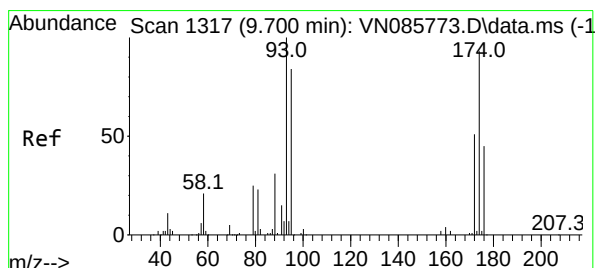
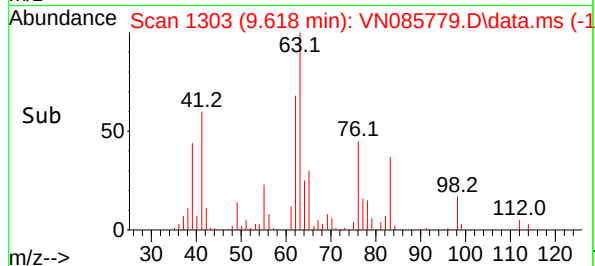
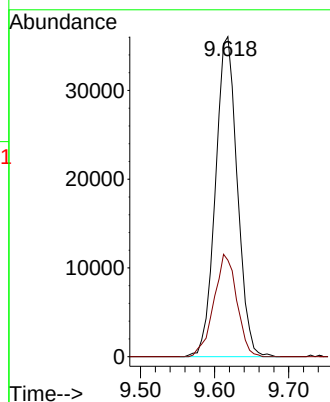
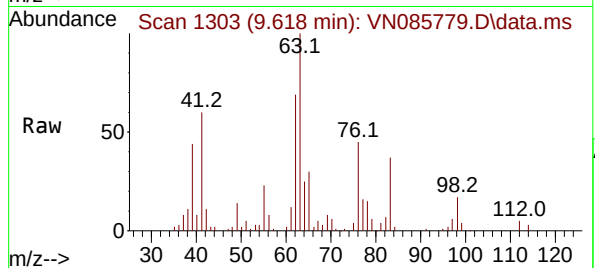
65 30.1 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#46

Dibromomethane

Concen: 20.278 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

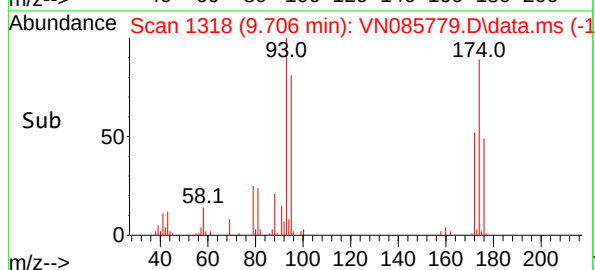
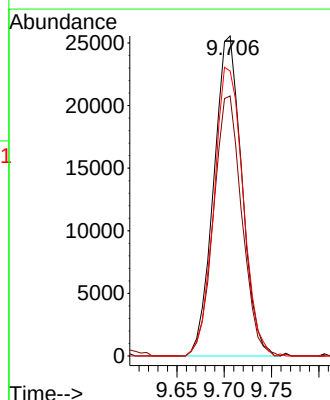
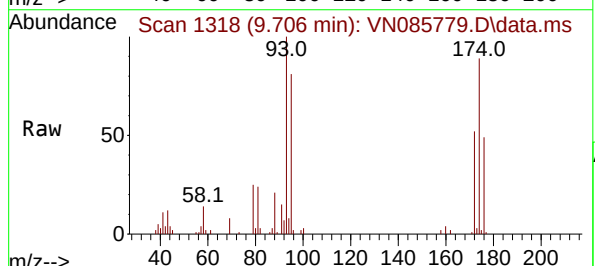
Tgt Ion: 93 Resp: 52878

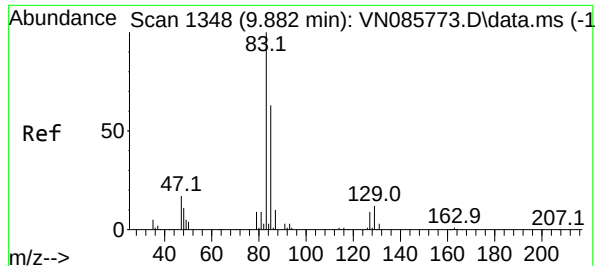
Ion Ratio Lower Upper

93 100

95 81.7 66.7 100.1

174 93.0 77.2 115.8





#47

Bromodichloromethane

Concen: 20.010 ug/l

RT: 9.883 min Scan# 111634

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

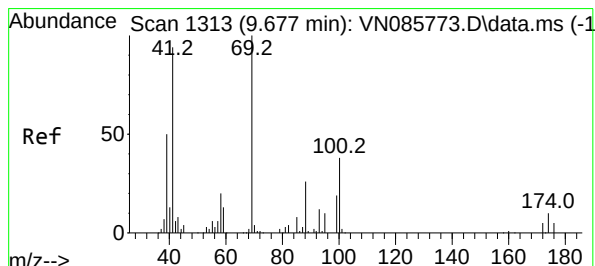
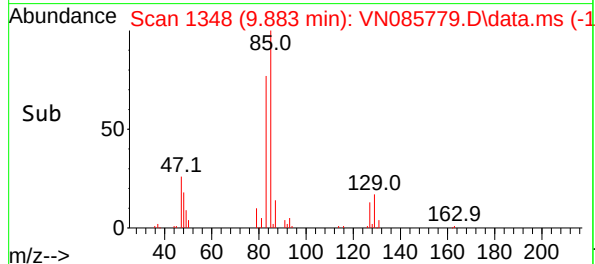
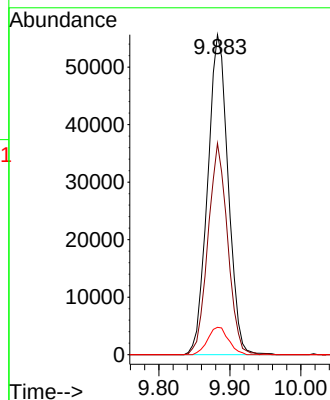
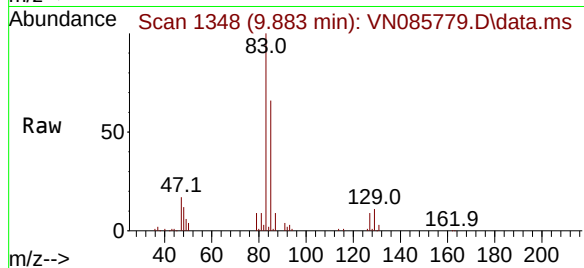
VSTDICC020

Tgt Ion:	83	Resp:	111634
Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.5	75.7
127	8.6	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#48

Methyl methacrylate

Concen: 20.781 ug/l

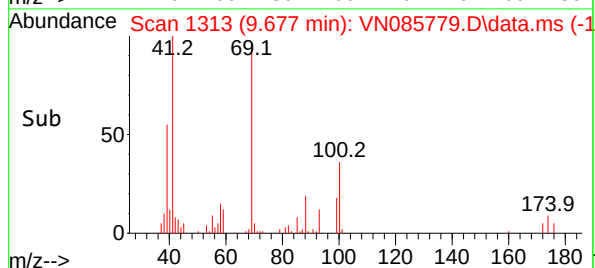
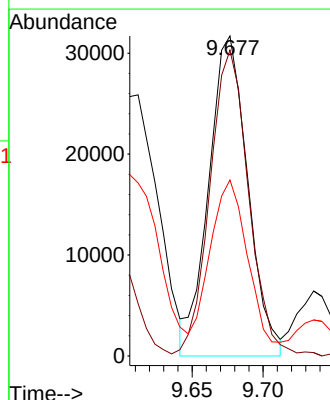
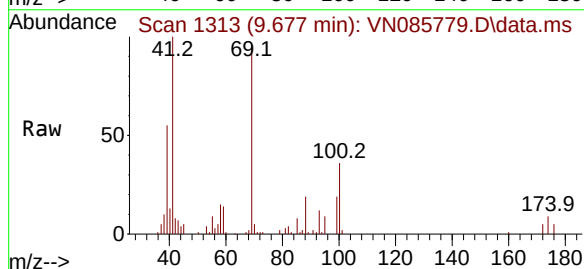
RT: 9.677 min Scan# 1313

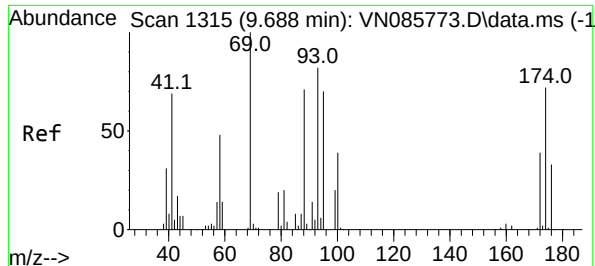
Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	41	Resp:	60690
Ion	Ratio	Lower	Upper
41	100		
69	95.1	76.0	114.0
39	54.7	42.3	63.5





#49

1,4-Dioxane

Concen: 392.137 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 21778

Ion Ratio Lower Upper

88 100

43 0.0 18.6 27.8

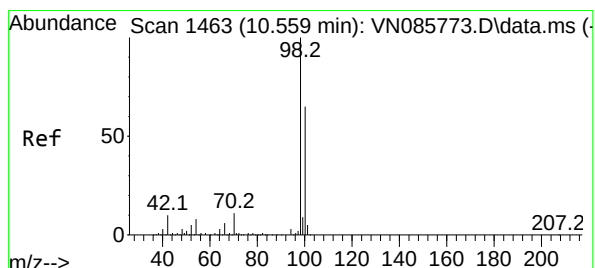
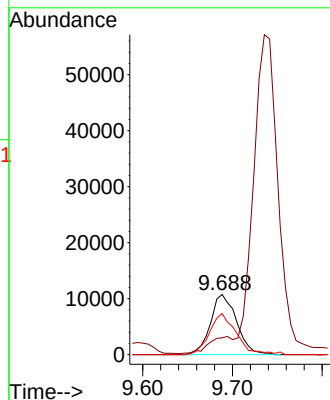
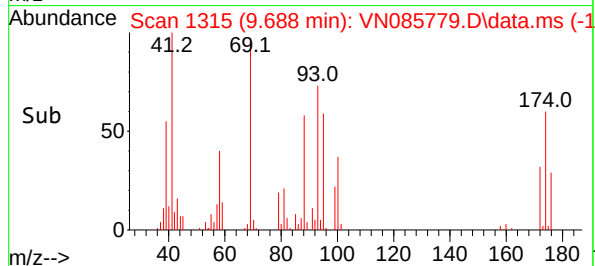
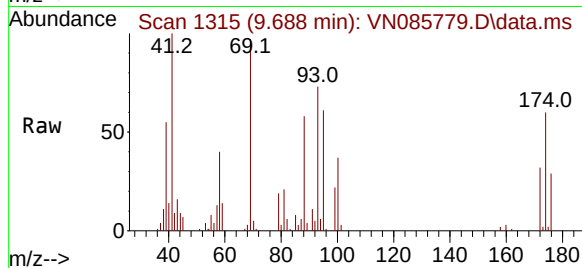
58 70.5 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#50

Toluene-d8

Concen: 18.140 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. 0.000 min

Lab File: VN085779.D

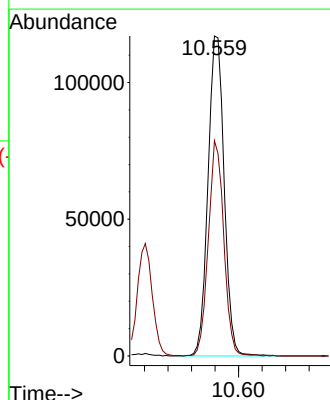
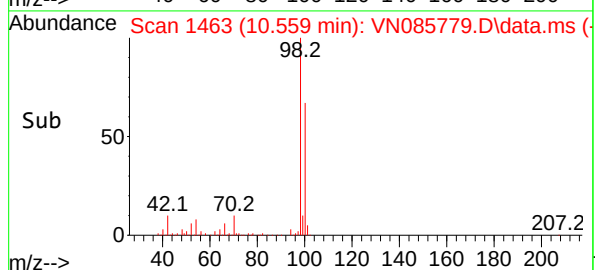
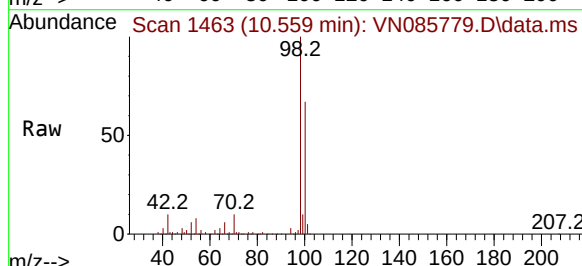
Acq: 18 Feb 2025 14:18

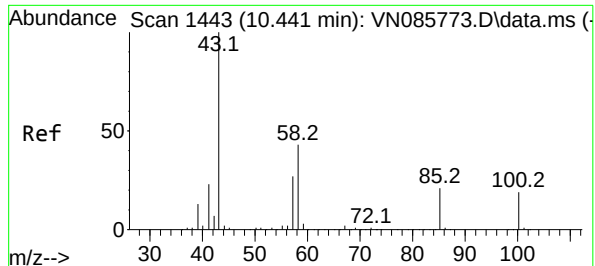
Tgt Ion: 98 Resp: 222839

Ion Ratio Lower Upper

98 100

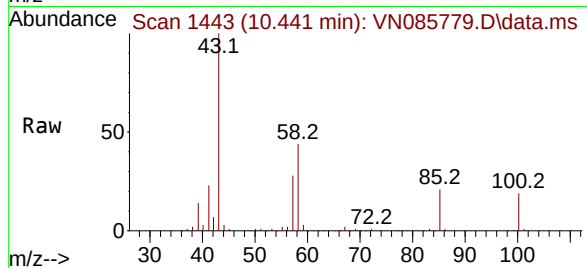
100 64.3 52.1 78.1





#51
4-Methyl-2-Pentanone
Concen: 105.563 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

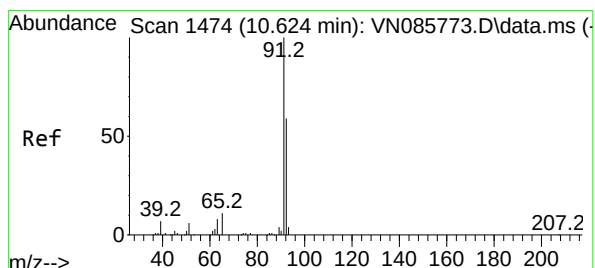
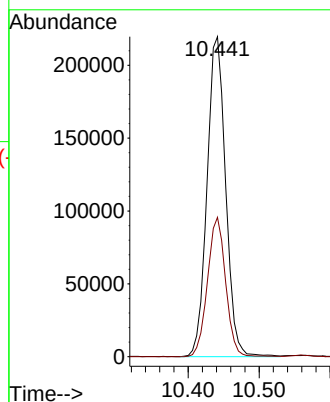
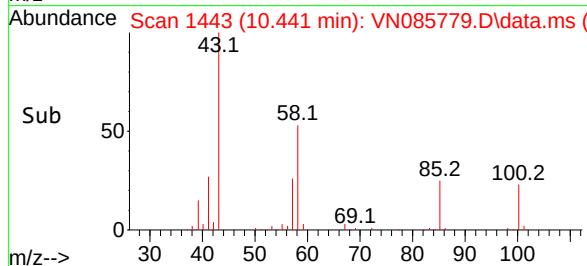
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 400235
Ion Ratio Lower Upper
43 100
58 42.5 34.6 52.0

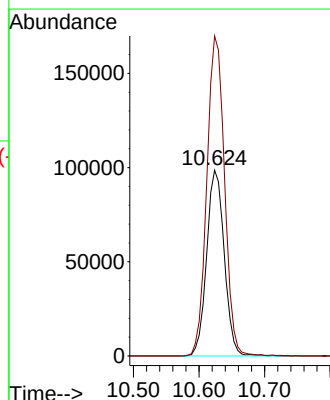
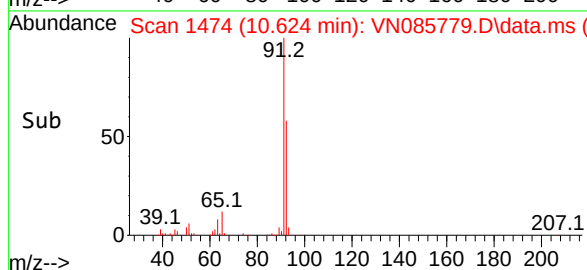
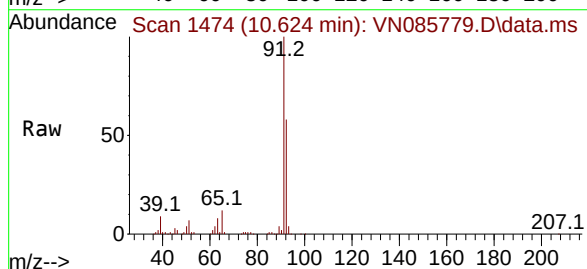
Manual Integrations
APPROVED

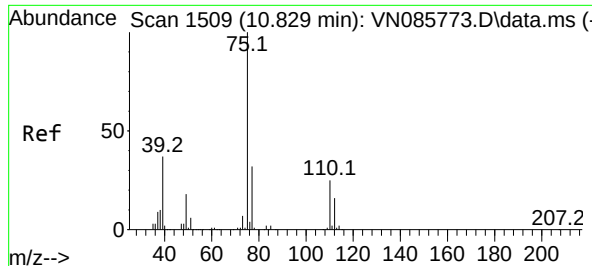
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#52
Toluene
Concen: 20.495 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

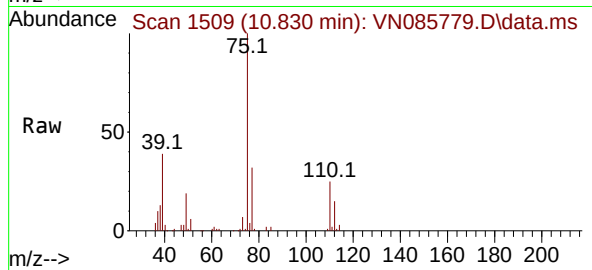
Tgt Ion: 92 Resp: 184001
Ion Ratio Lower Upper
92 100
91 173.5 136.9 205.3





#53
t-1,3-Dichloropropene
Concen: 20.218 ug/l
RT: 10.830 min Scan# 1109
Delta R.T. 0.001 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

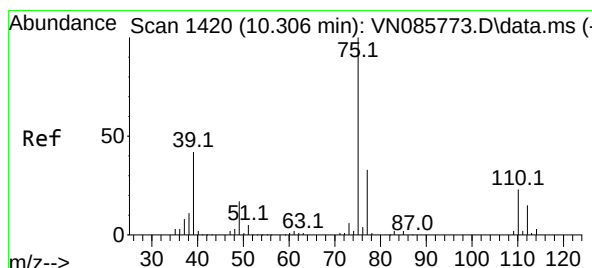
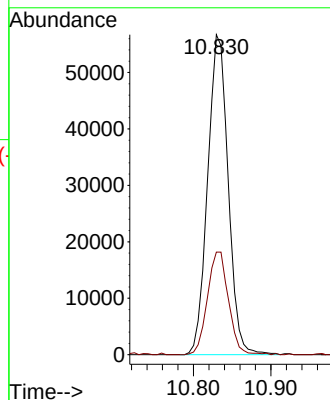
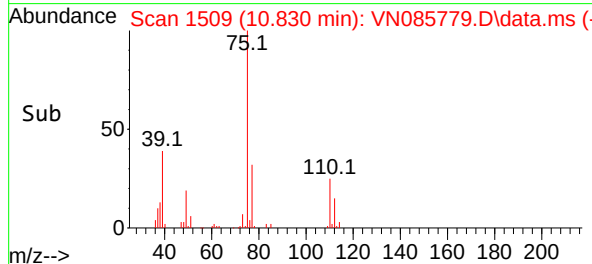
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 10430
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.0

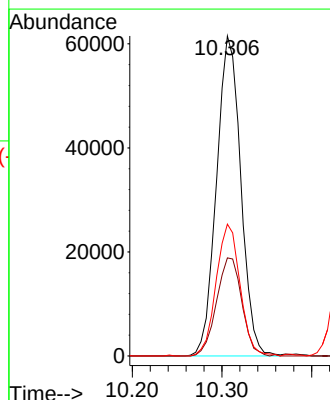
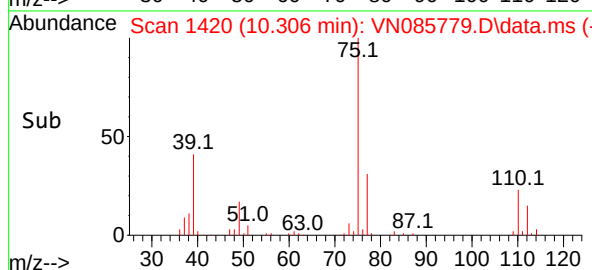
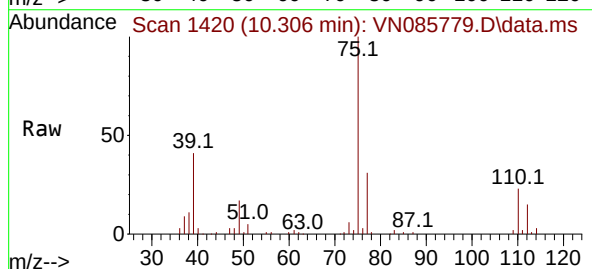
Manual Integrations
APPROVED

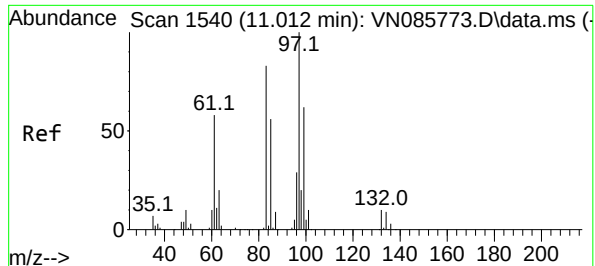
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#54
cis-1,3-Dichloropropene
Concen: 20.409 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 75 Resp: 115451
Ion Ratio Lower Upper
75 100
77 30.6 26.1 39.1
39 41.2 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 19.900 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 71034

Ion Ratio Lower Upper

97 100

83 85.1 66.1 99.1

85 58.6 44.7 67.1

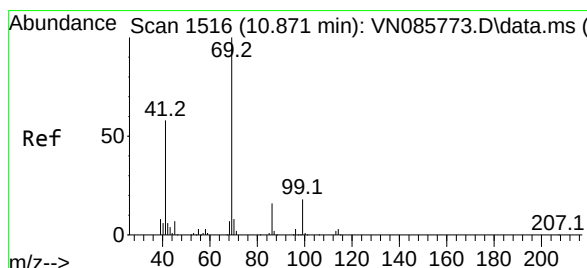
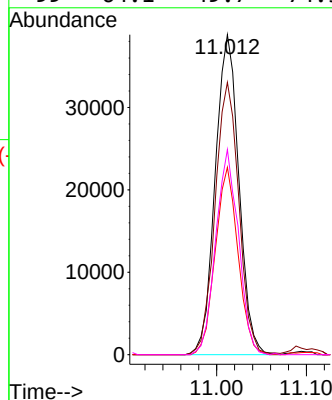
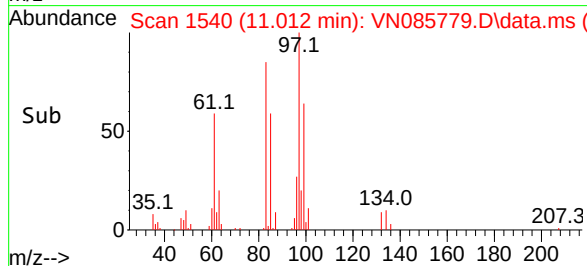
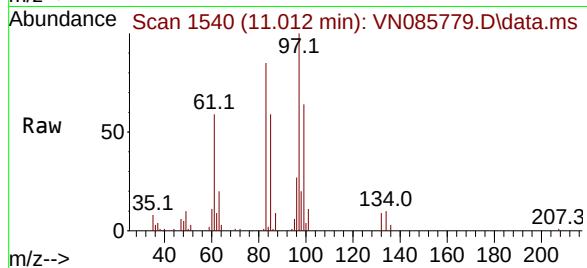
99 64.1 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#56

Ethyl methacrylate

Concen: 20.003 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

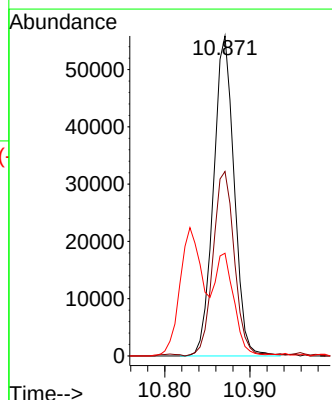
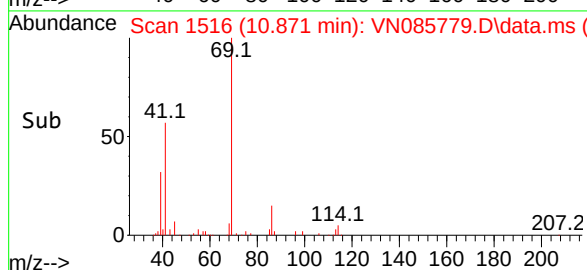
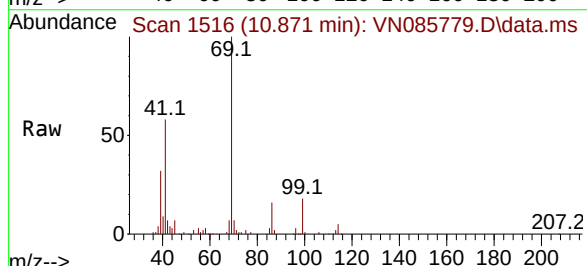
Tgt Ion: 69 Resp: 94315

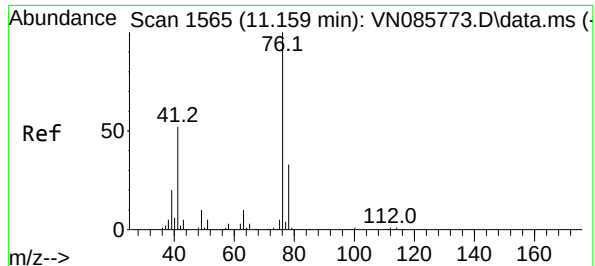
Ion Ratio Lower Upper

69 100

41 60.1 46.0 69.0

39 28.6 22.0 33.0





#57

1,3-Dichloropropane

Concen: 20.080 ug/l

RT: 11.159 min Scan# 119649

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 119649

Ion Ratio Lower Upper

76 100

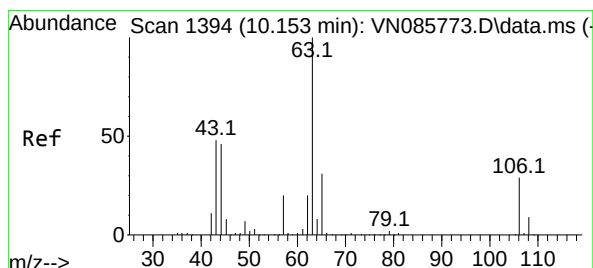
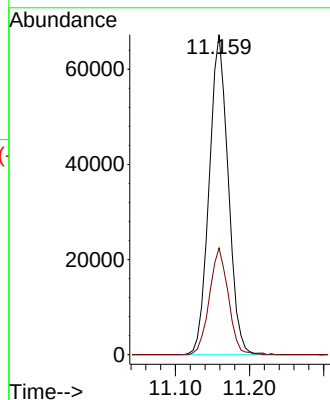
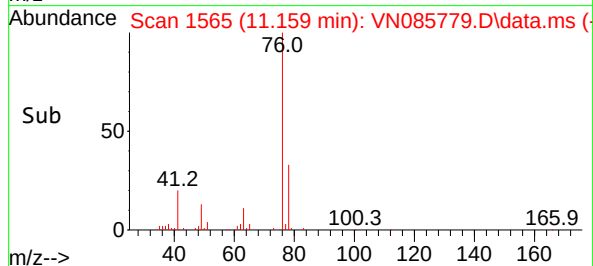
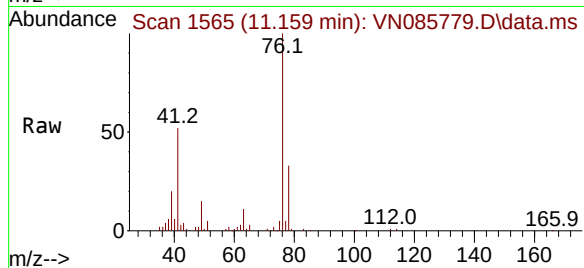
78 33.1 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#58

2-Chloroethyl Vinyl ether

Concen: 146.107 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085779.D

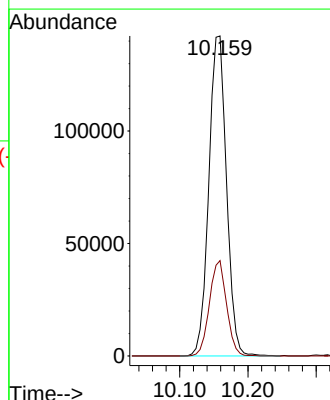
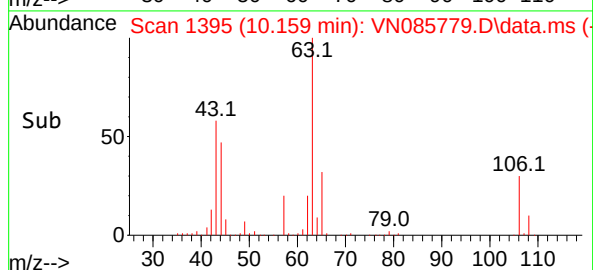
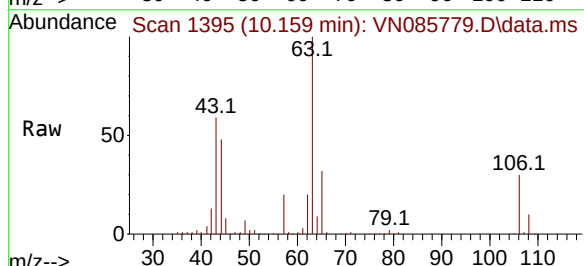
Acq: 18 Feb 2025 14:18

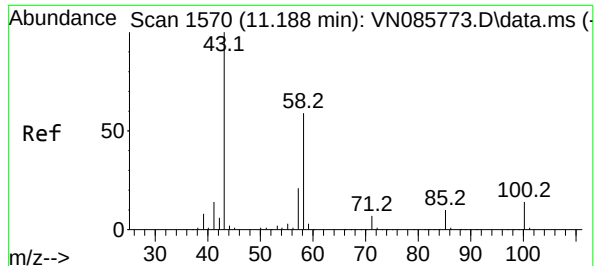
Tgt Ion: 63 Resp: 256540

Ion Ratio Lower Upper

63 100

106 28.9 22.7 34.1





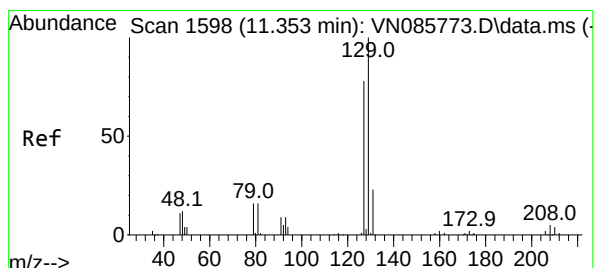
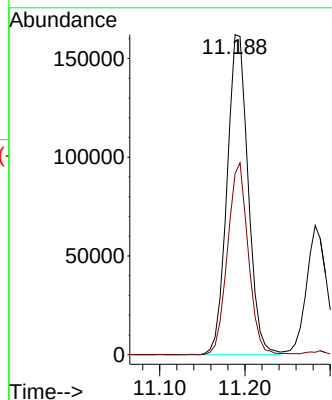
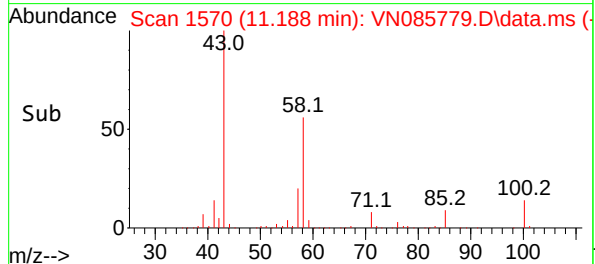
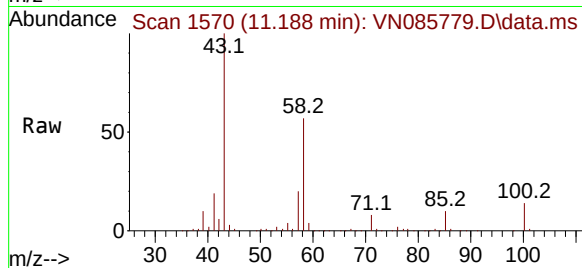
#59
2-Hexanone
Concen: 106.794 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 278550
Ion Ratio Lower Upper
43 100
58 58.8 29.8 89.5

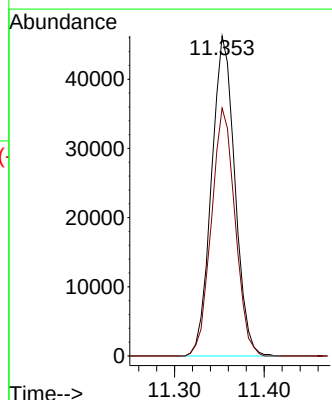
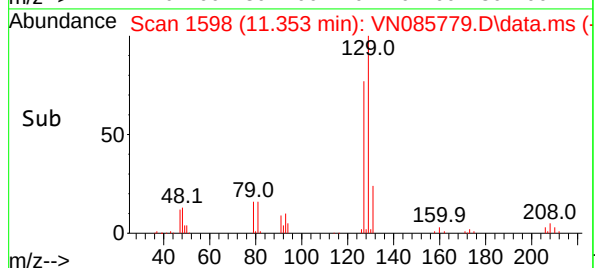
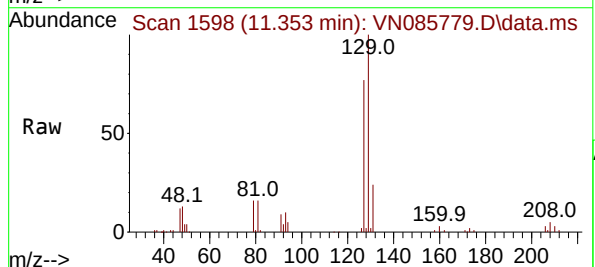
Manual Integrations
APPROVED

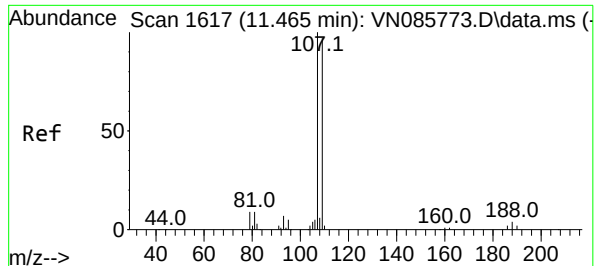
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#60
Dibromochloromethane
Concen: 20.125 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion:129 Resp: 83651
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.5





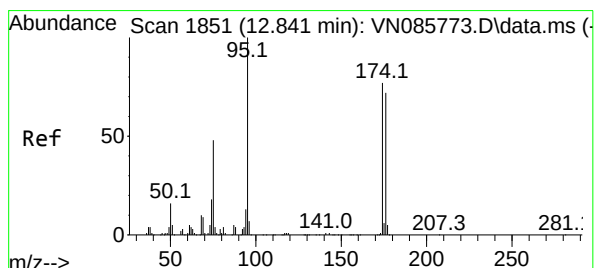
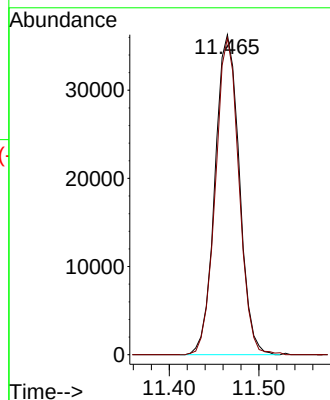
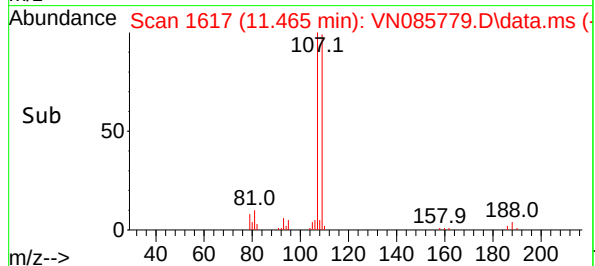
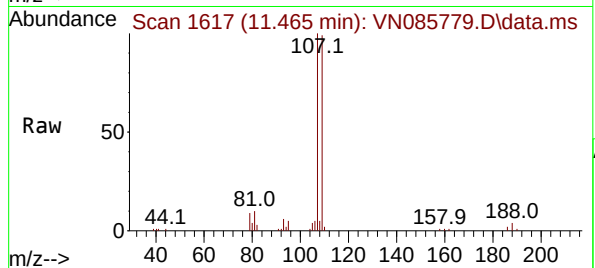
#61
1,2-Dibromoethane
Concen: 20.223 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 6820
Ion Ratio Lower Upper
107 100
109 95.6 76.0 114.0

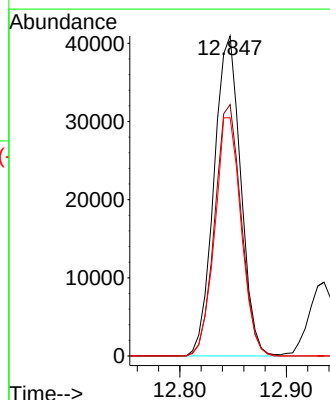
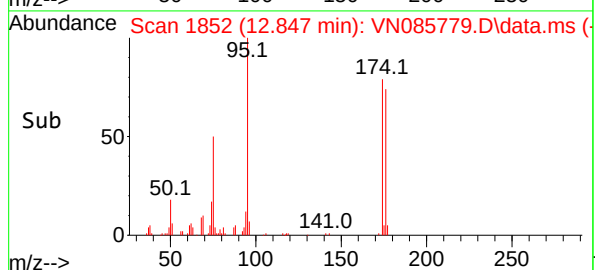
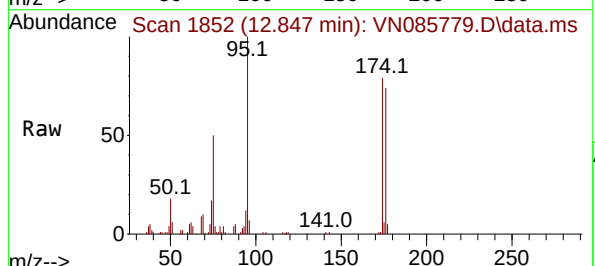
Manual Integrations
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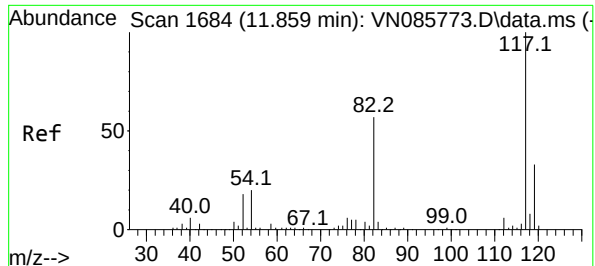
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#62
4-Bromofluorobenzene
Concen: 17.627 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 95 Resp: 71343
Ion Ratio Lower Upper
95 100
174 77.7 0.0 152.4
176 73.6 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:117 Resp: 44888

Ion Ratio Lower Upper

117 100

82 58.1 45.7 68.5

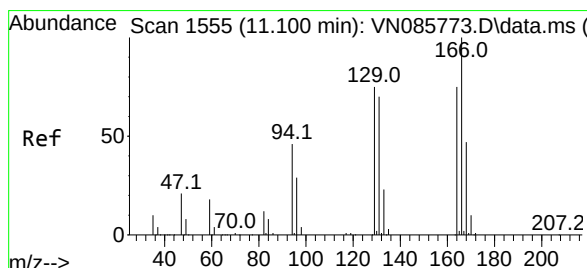
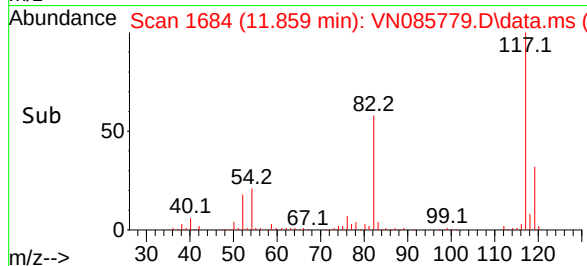
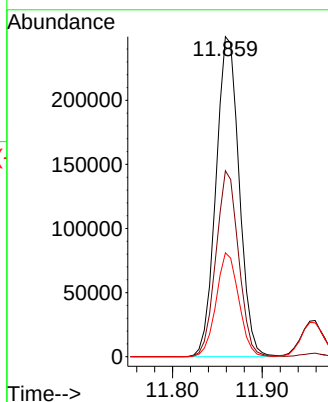
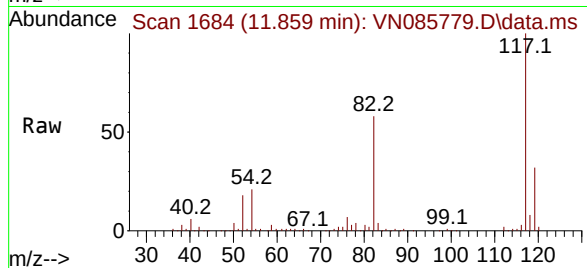
119 32.5 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#64

Tetrachloroethene

Concen: 19.350 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:164 Resp: 67288

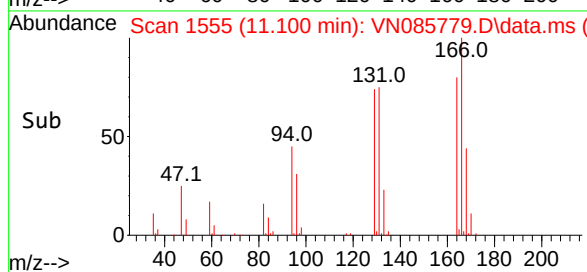
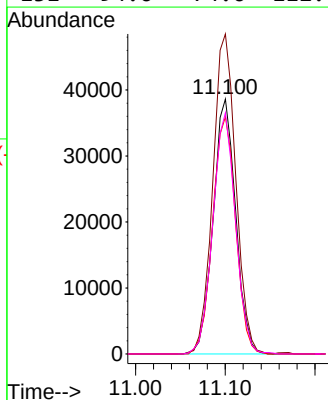
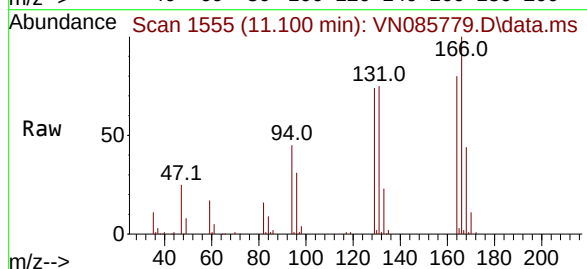
Ion Ratio Lower Upper

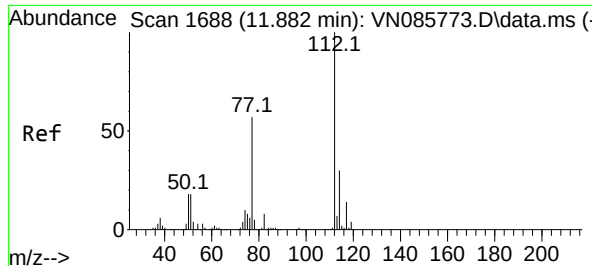
164 100

166 125.5 107.2 160.8

129 93.0 80.7 121.1

131 94.6 74.6 112.0





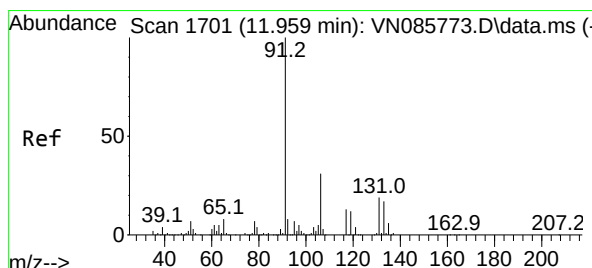
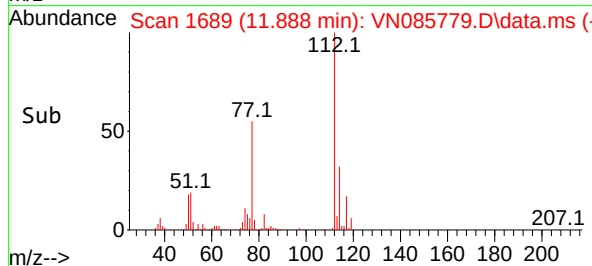
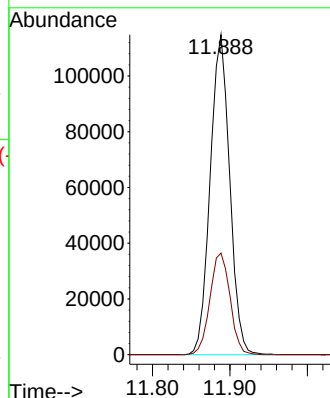
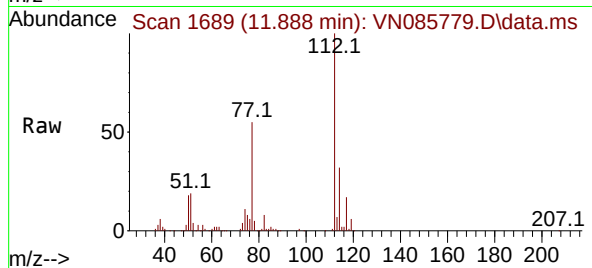
#65
Chlorobenzene
Concen: 19.535 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 20088
Ion Ratio Lower Upper
112 100
114 31.8 24.3 36.5

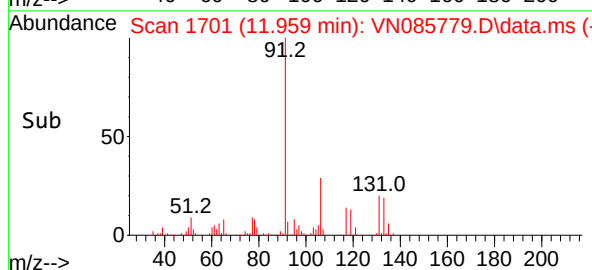
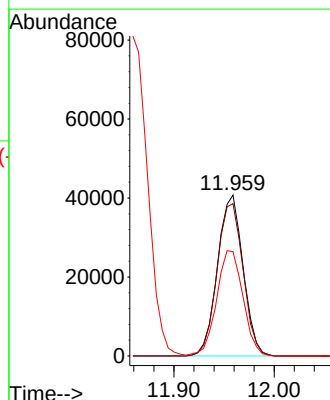
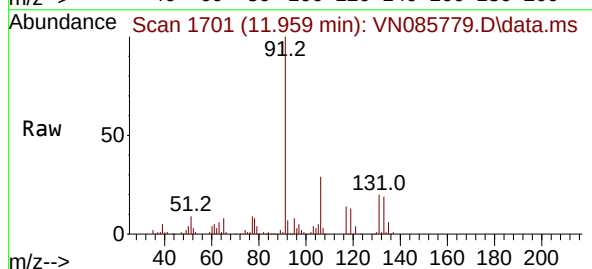
Manual Integrations
APPROVED

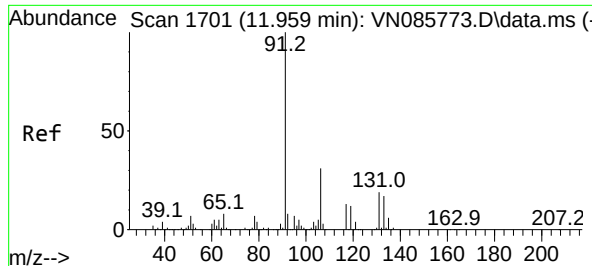
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.497 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion:131 Resp: 72064
Ion Ratio Lower Upper
131 100
133 96.8 47.7 143.1
119 67.5 33.3 99.8





#67

Ethyl Benzene

Concen: 20.490 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 330050

Ion Ratio Lower Upper

91 100

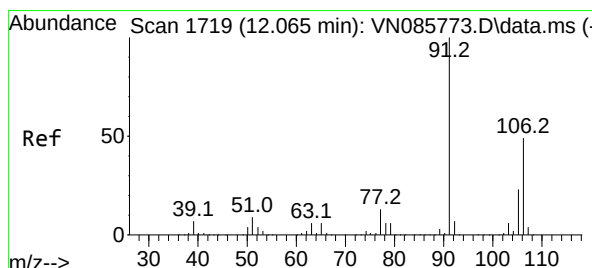
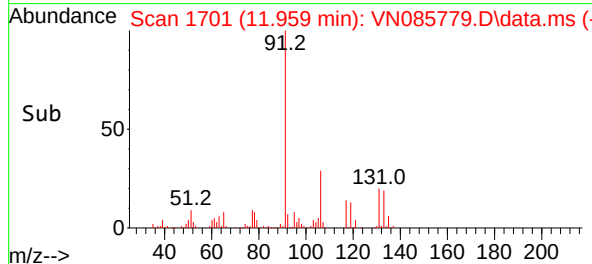
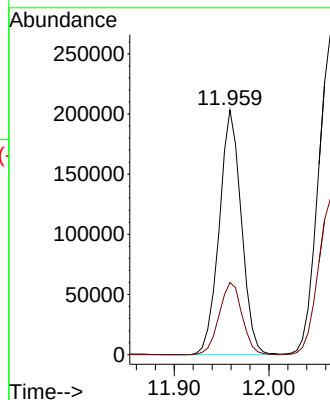
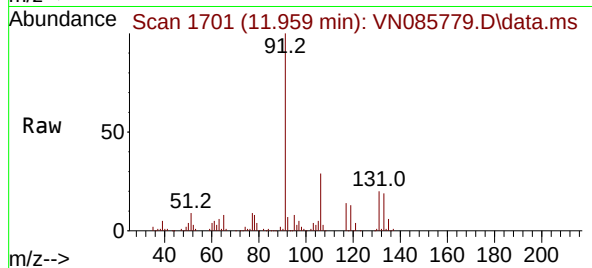
106 29.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#68

m/p-Xylenes

Concen: 42.371 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085779.D

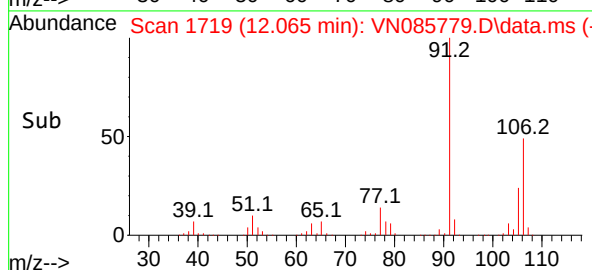
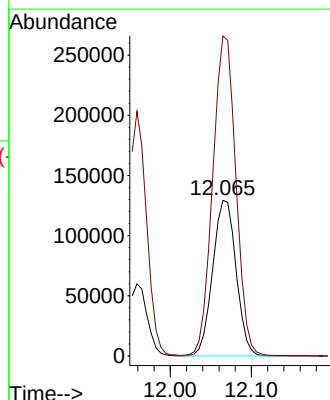
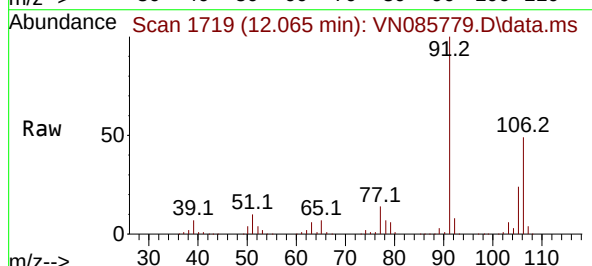
Acq: 18 Feb 2025 14:18

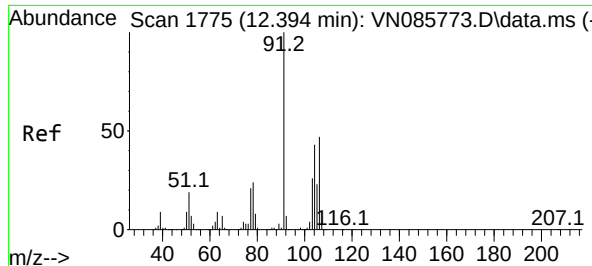
Tgt Ion:106 Resp: 259251

Ion Ratio Lower Upper

106 100

91 203.4 163.3 244.9





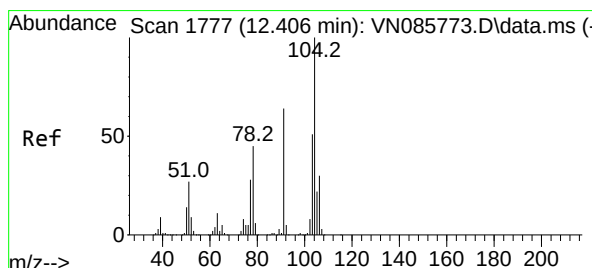
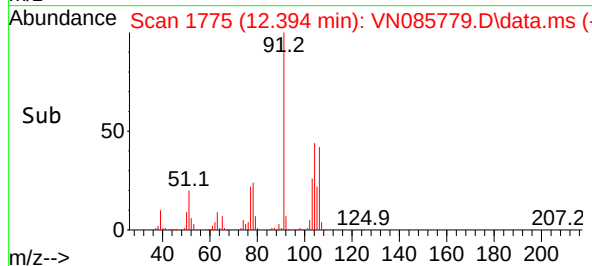
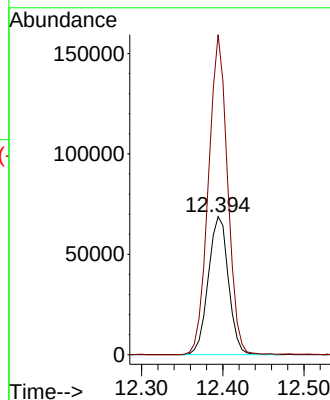
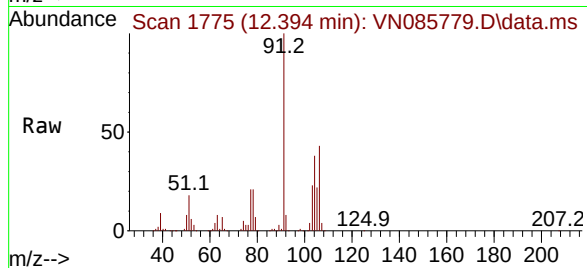
#69
o-Xylene
Concen: 20.345 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 11829
Ion Ratio Lower Upper
106 100
91 220.6 107.1 321.4

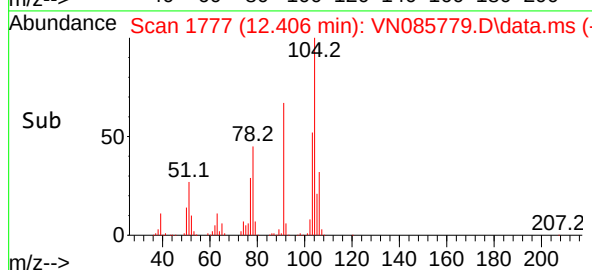
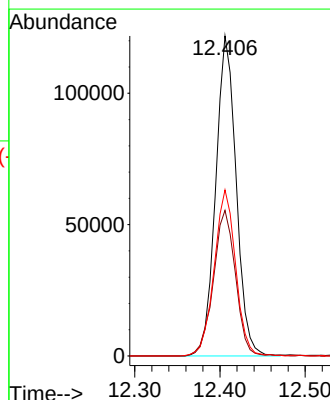
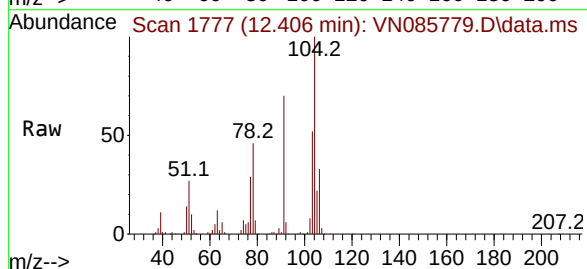
Manual Integrations
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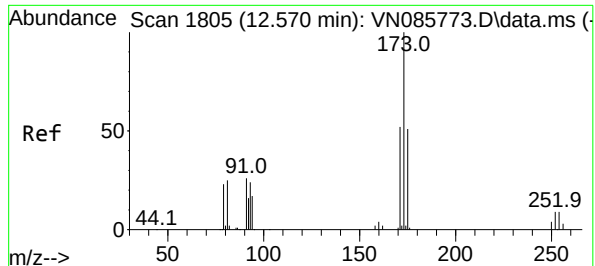
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#70
Styrene
Concen: 20.270 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion:104 Resp: 203369
Ion Ratio Lower Upper
104 100
78 49.0 39.0 58.6
103 54.5 43.3 64.9





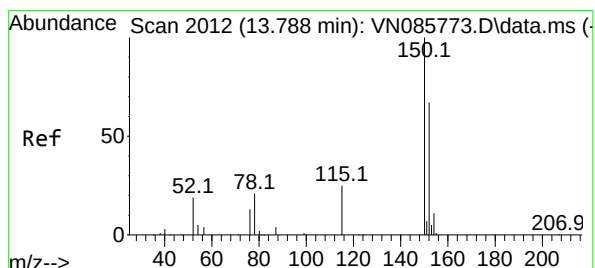
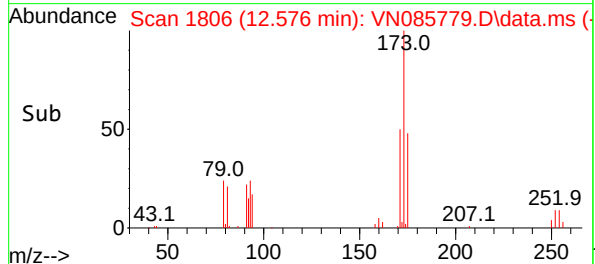
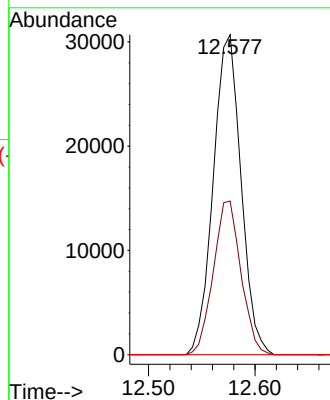
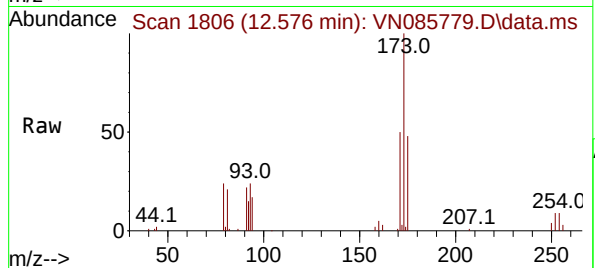
#71
Bromoform
Concen: 20.214 ug/l
RT: 12.576 min Scan# 1805
Delta R.T. 0.006 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 55518
Ion Ratio Lower Upper
173 100
175 47.8 25.1 75.4
254 0.0 0.0 0.0

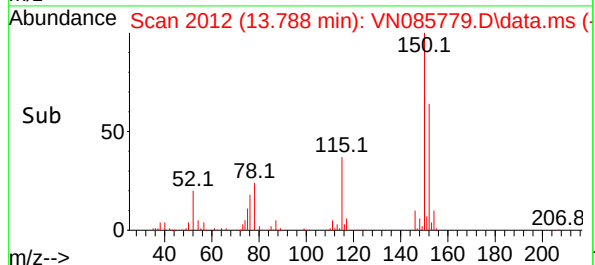
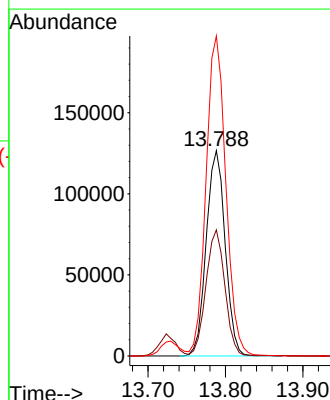
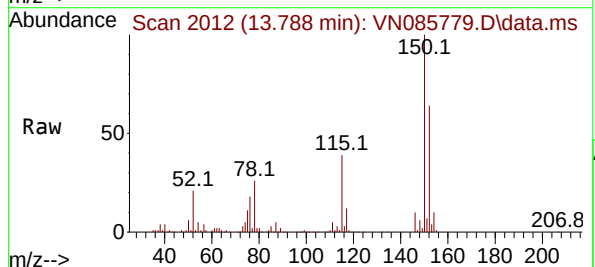
Manual Integrations
APPROVED

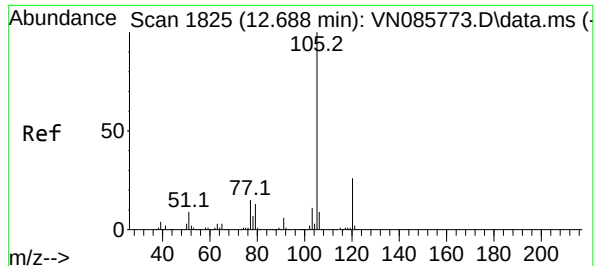
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion:152 Resp: 214863
Ion Ratio Lower Upper
152 100
115 61.0 30.4 91.3
150 162.5 0.0 345.4





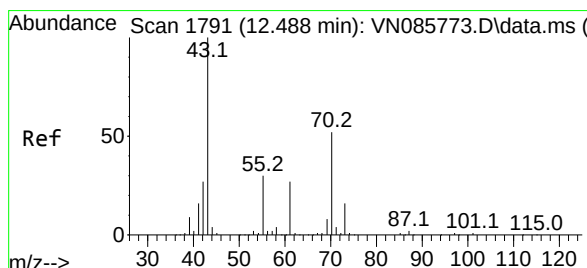
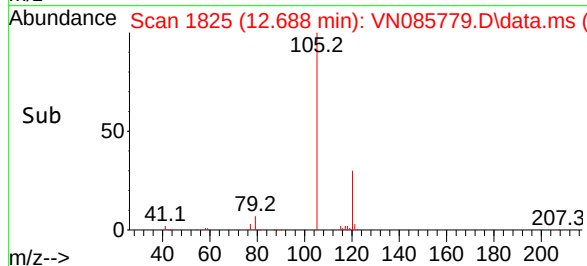
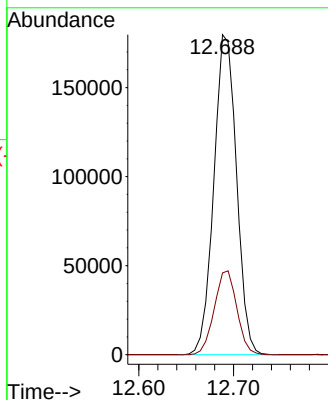
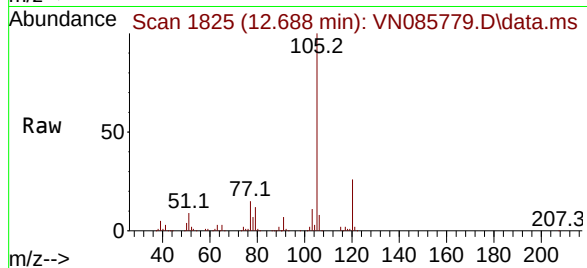
#73
Isopropylbenzene
Concen: 20.339 ug/l
RT: 12.688 min Scan# 1825
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 299398
Ion Ratio Lower Upper
105 100
120 26.1 13.0 39.0

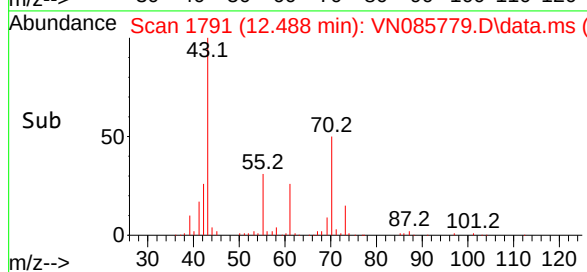
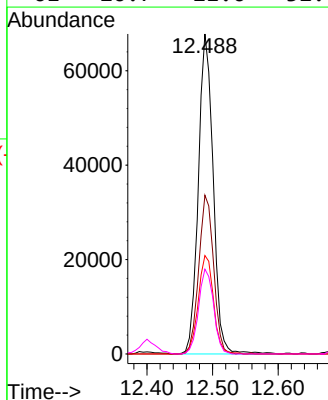
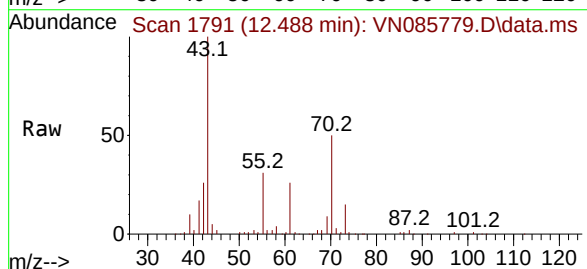
Manual Integrations
APPROVED

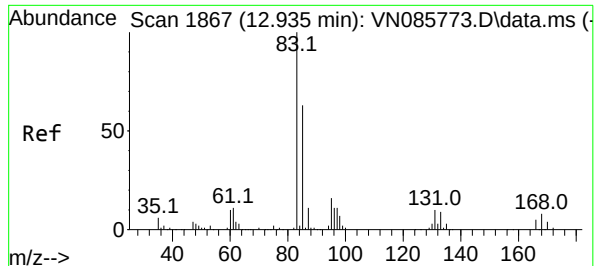
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#74
N-ethyl acetate
Concen: 20.608 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 43 Resp: 106973
Ion Ratio Lower Upper
43 100
70 49.5 41.0 61.4
55 31.5 24.6 36.8
61 26.7 21.6 32.4





#75

1,1,2,2-Tetrachloroethane

Concen: 19.579 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

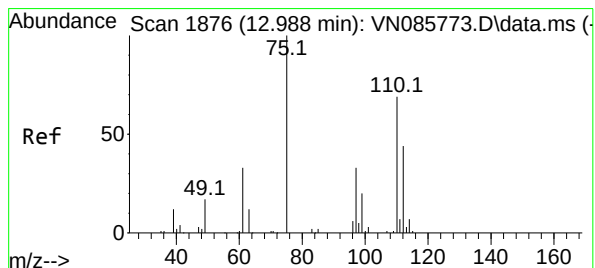
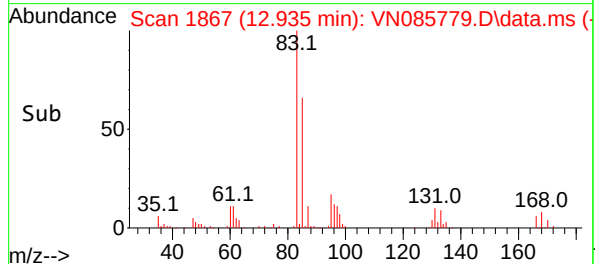
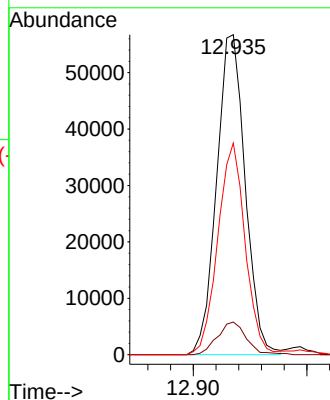
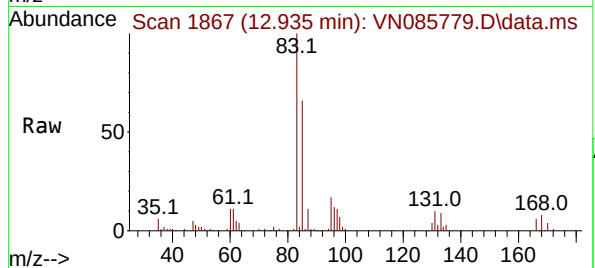
Tgt Ion:	83	Resp:	99174
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.0	15.0
85	63.2	32.2	96.6

Manual Integrations

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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#76

1,2,3-Trichloropropane

Concen: 20.431 ug/l m

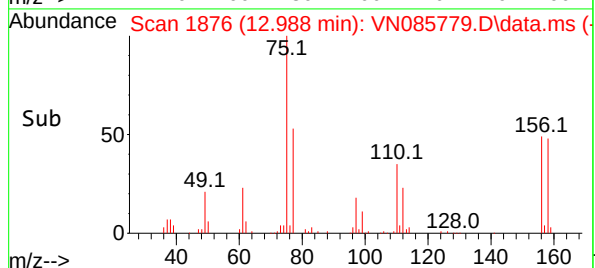
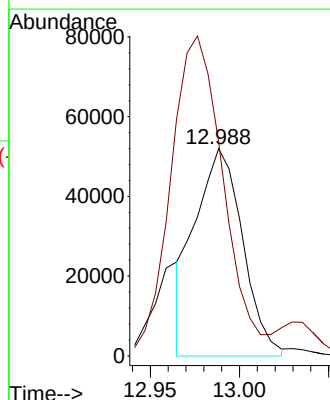
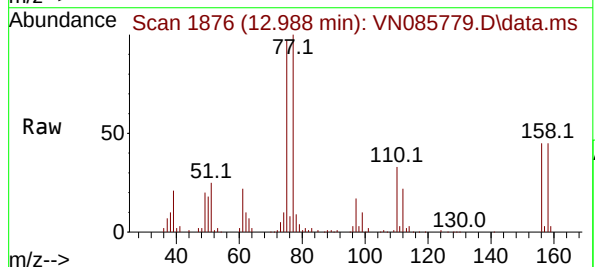
RT: 12.988 min Scan# 1876

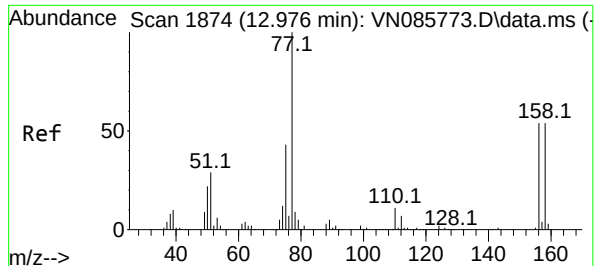
Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	75	Resp:	96439
Ion Ratio	Lower	Upper	
75	100		
77	171.8	100.0	300.0





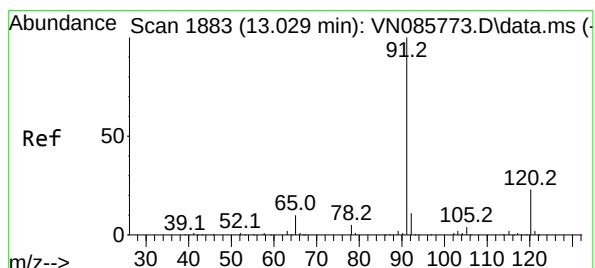
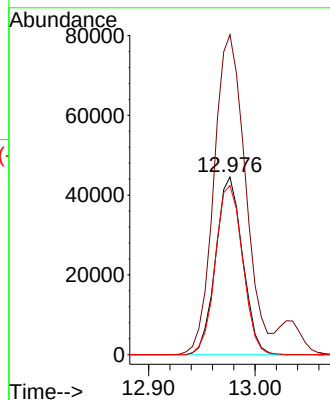
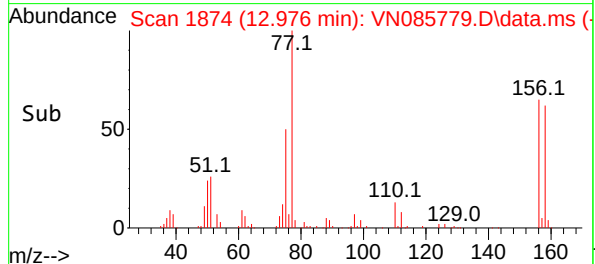
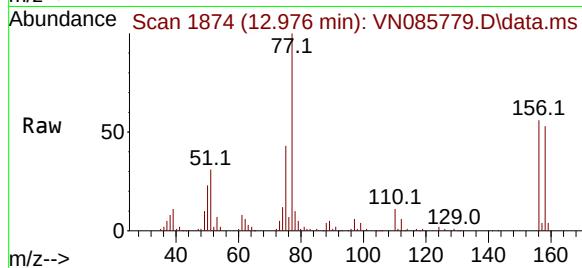
#77
Bromobenzene
Concen: 19.630 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 78068
Ion Ratio Lower Upper
156 100
77 212.2 104.1 312.3
158 96.5 48.1 144.4

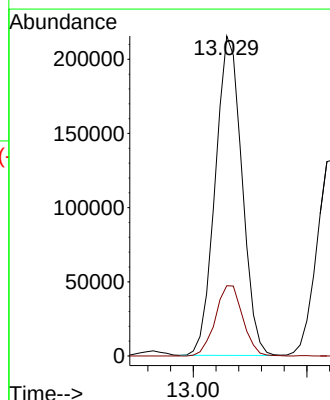
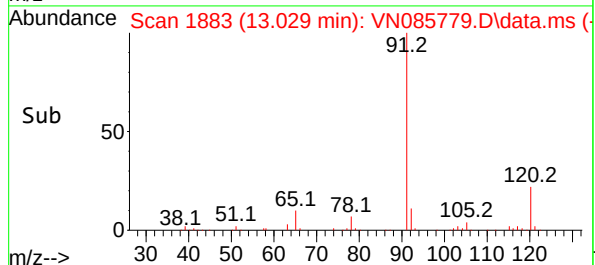
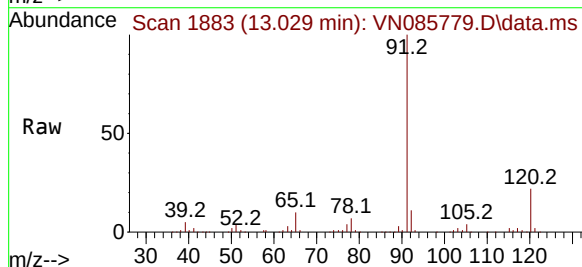
Manual Integrations
APPROVED

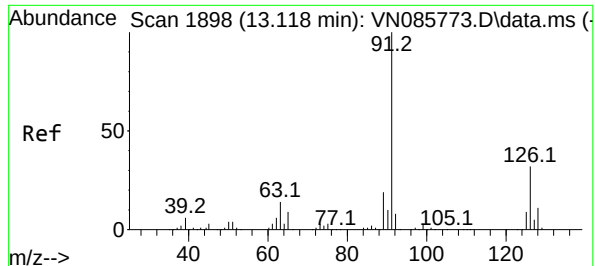
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#78
n-propylbenzene
Concen: 20.852 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 91 Resp: 351518
Ion Ratio Lower Upper
91 100
120 22.6 11.3 33.8





#79

2-Chlorotoluene

Concen: 20.458 ug/l

RT: 13.124 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 230434

Ion Ratio Lower Upper

91 100

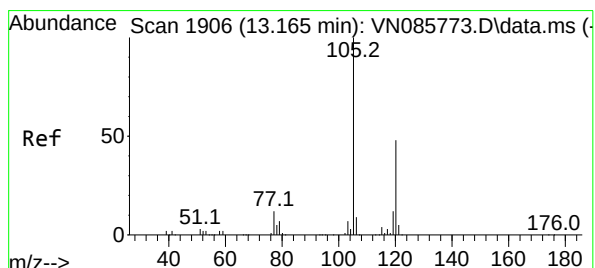
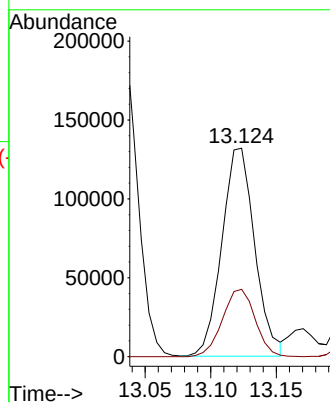
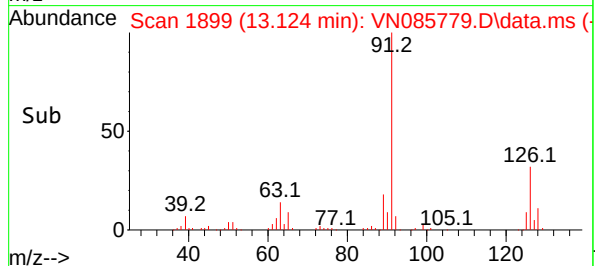
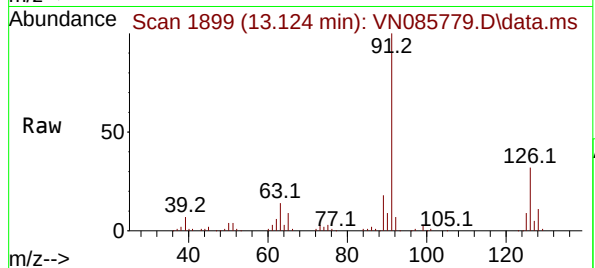
126 32.2 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.534 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085779.D

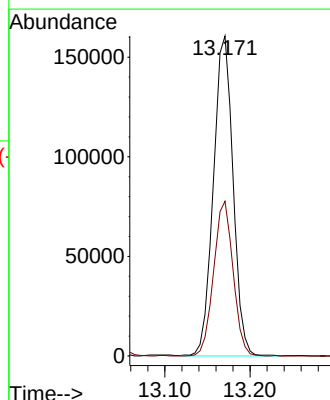
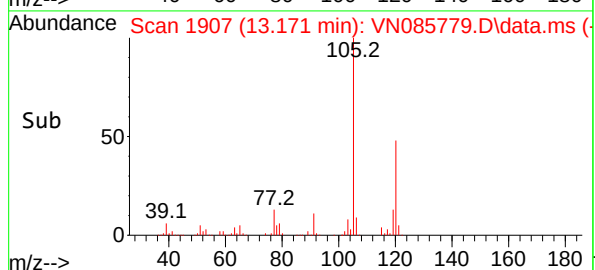
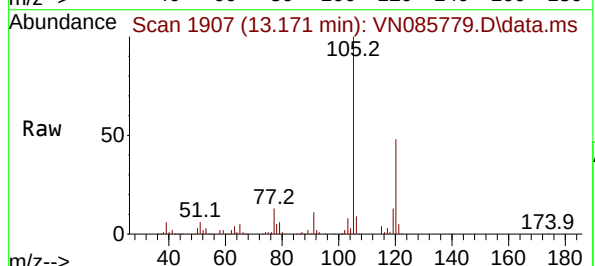
Acq: 18 Feb 2025 14:18

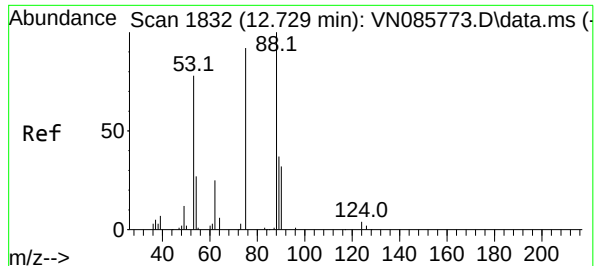
Tgt Ion:105 Resp: 258212

Ion Ratio Lower Upper

105 100

120 47.8 24.3 72.9





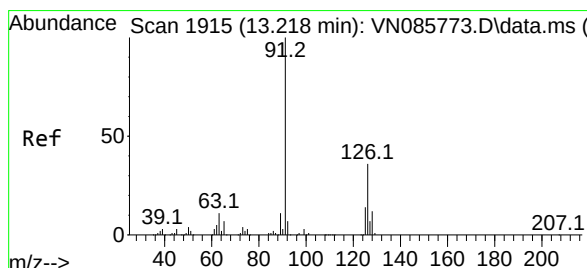
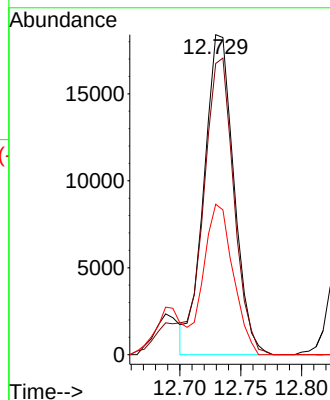
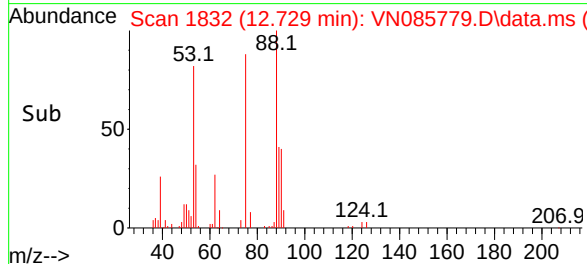
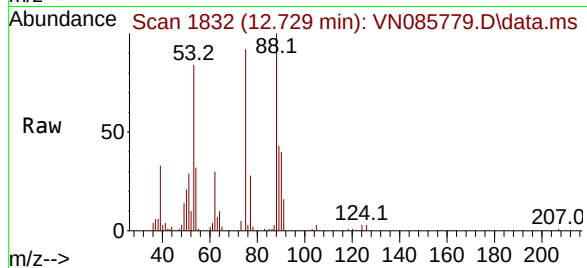
#81
trans-1,4-Dichloro-2-butene
Concen: 19.267 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 3151
Ion Ratio Lower Upper
75 100
53 102.2 74.2 111.4
89 46.3 34.9 52.3

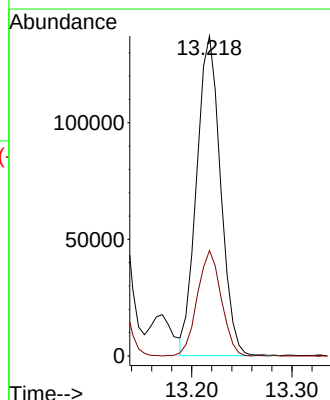
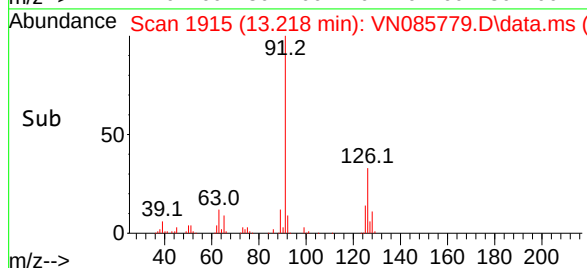
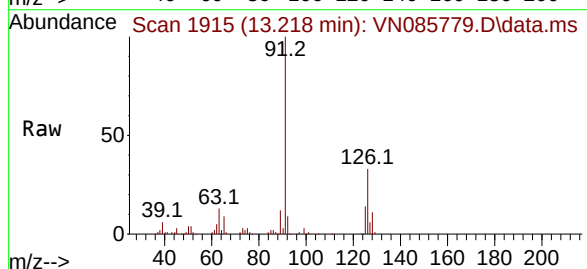
Manual Integrations
APPROVED

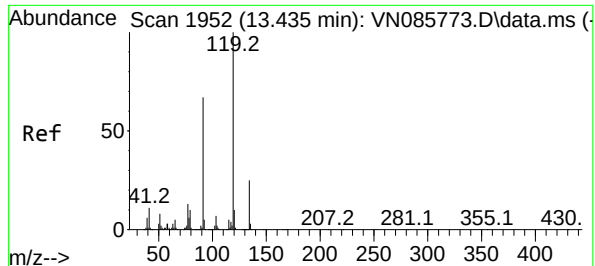
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#82
4-Chlorotoluene
Concen: 20.345 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion: 91 Resp: 227177
Ion Ratio Lower Upper
91 100
126 33.0 16.4 49.4





#83

tert-Butylbenzene

Concen: 20.637 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 208090

Ion Ratio Lower Upper

119 100

91 67.6 32.5 97.5

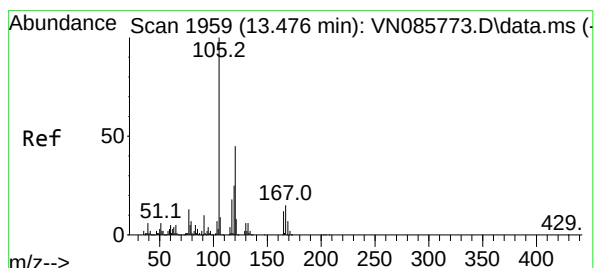
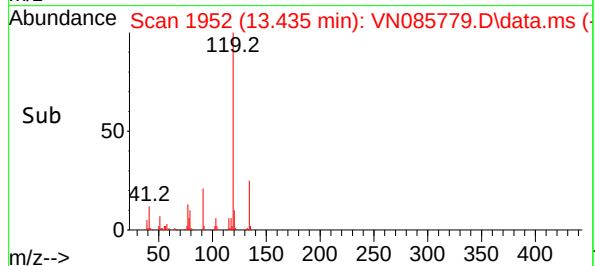
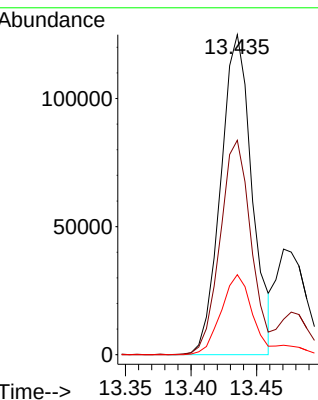
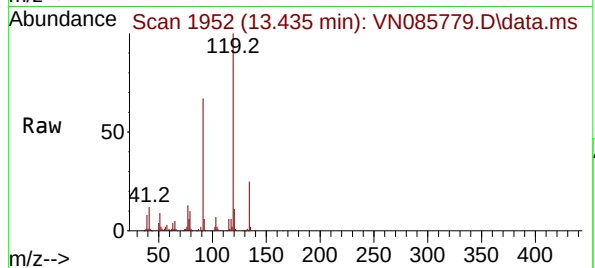
134 27.0 13.3 39.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.863 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085779.D

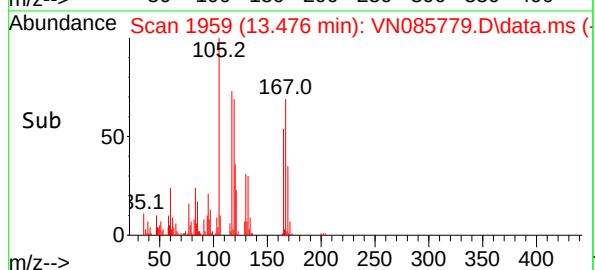
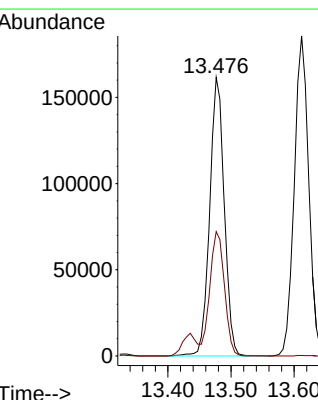
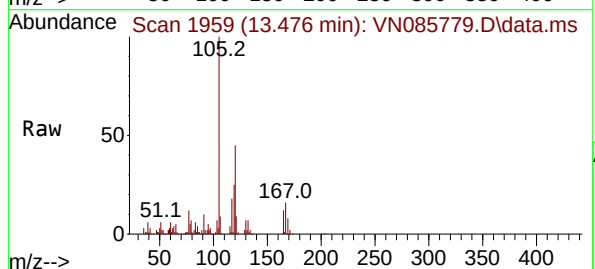
Acq: 18 Feb 2025 14:18

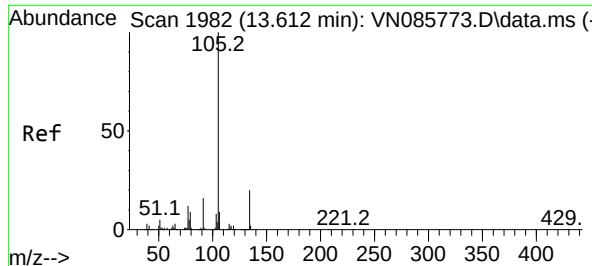
Tgt Ion:105 Resp: 259373

Ion Ratio Lower Upper

105 100

120 44.4 22.4 67.3





#85

sec-Butylbenzene

Concen: 20.612 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 29365

Ion Ratio Lower Upper

105 100

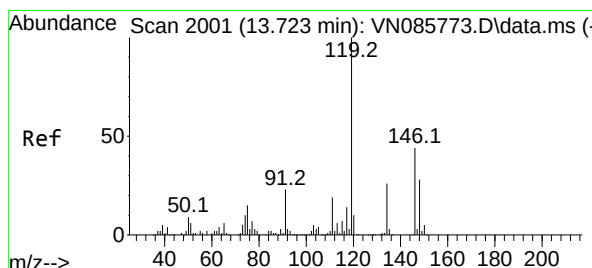
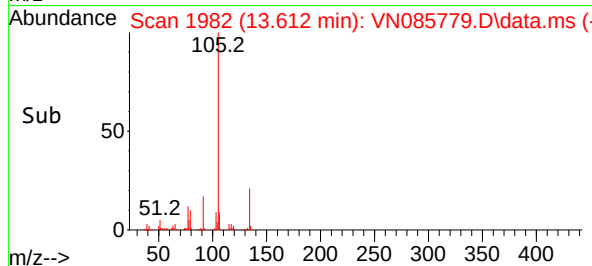
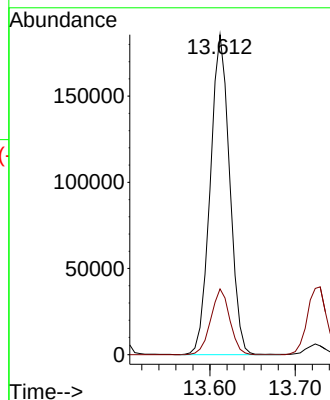
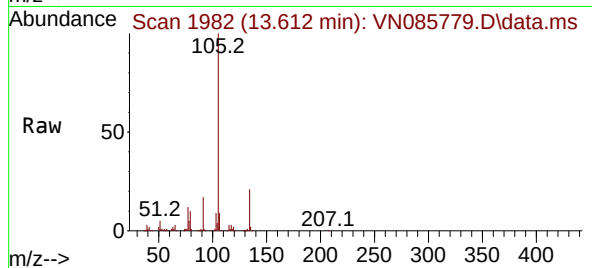
134 20.1 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 19.772 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

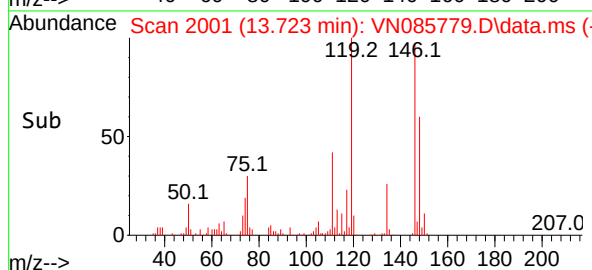
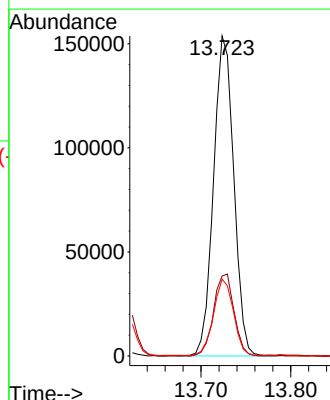
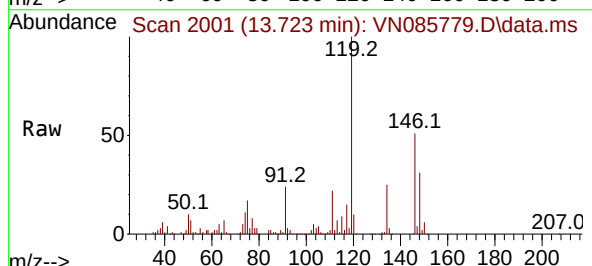
Tgt Ion:119 Resp: 240984

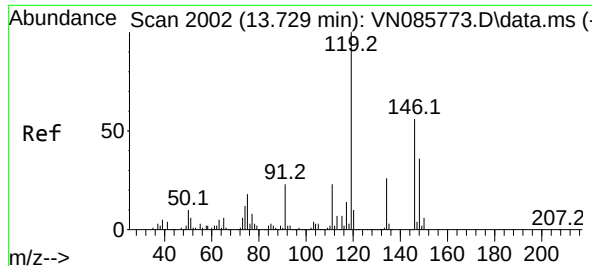
Ion Ratio Lower Upper

119 100

134 25.7 13.0 39.0

91 23.8 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 19.318 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

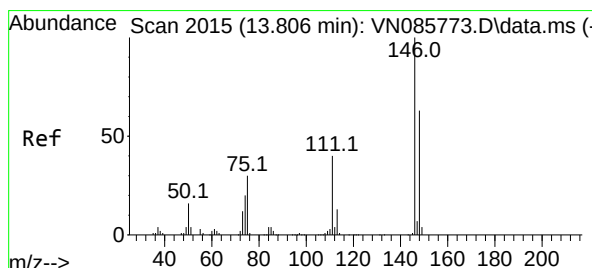
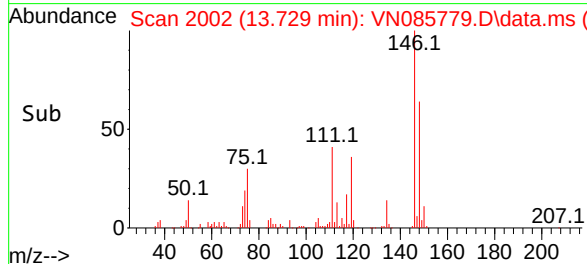
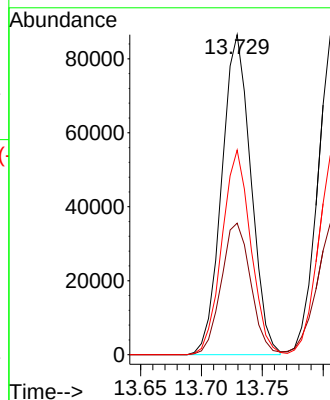
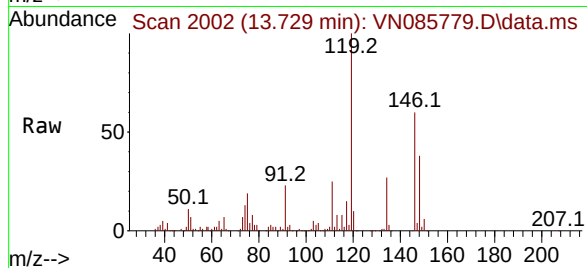
VSTDIC020

Tgt Ion:	146	Resp:	14393
Ion Ratio	Lower	Upper	
146	100		
111	41.7	21.1	63.3
148	63.3	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 18.954 ug/l

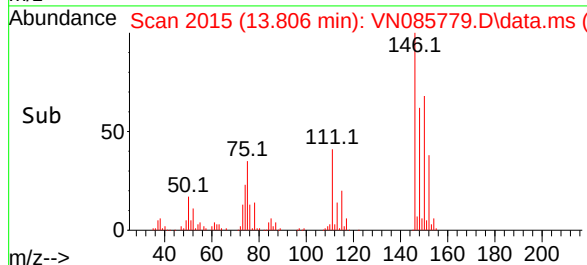
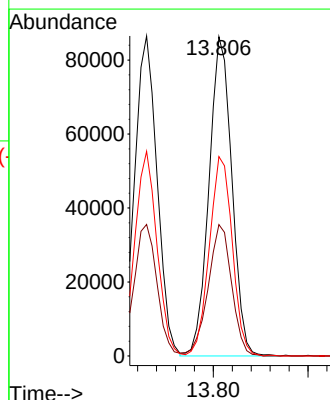
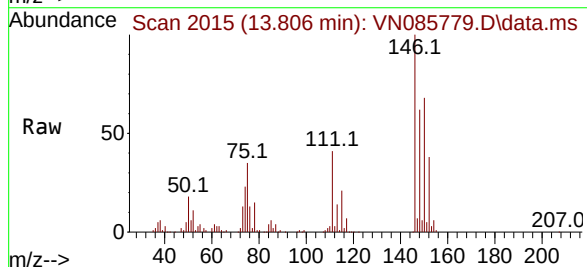
RT: 13.806 min Scan# 2015

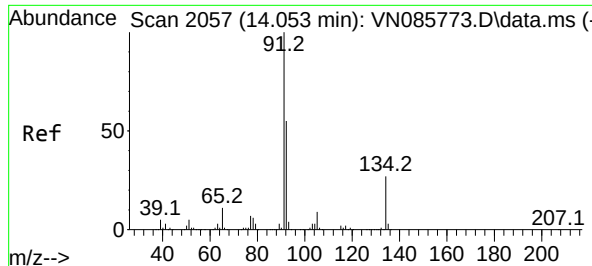
Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	146	Resp:	144744
Ion Ratio	Lower	Upper	
146	100		
111	42.4	20.4	61.3
148	63.0	31.8	95.4





#89

n-Butylbenzene

Concen: 19.300 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

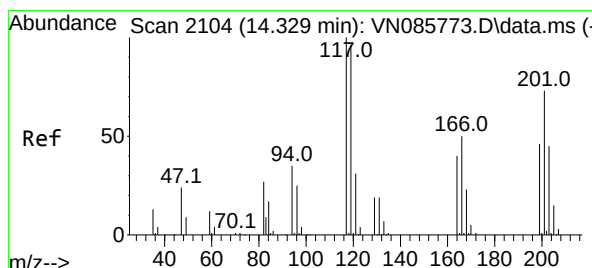
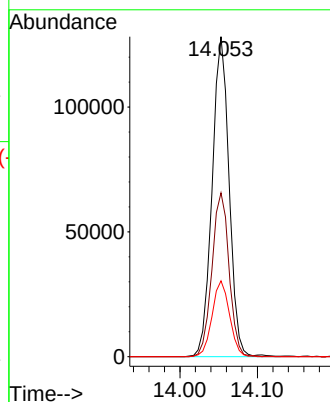
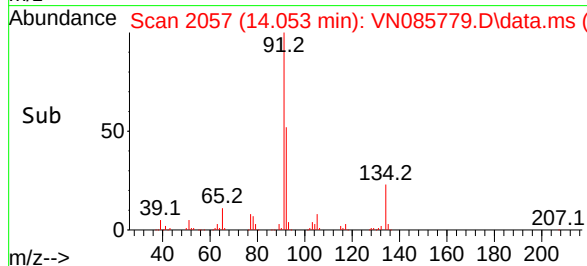
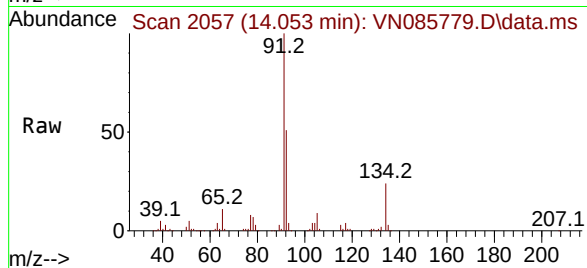
VSTDICC020

Tgt Ion:	91	Resp:	19522
Ion	Ratio	Lower	Upper
91	100		
92	51.6	27.1	81.3
134	24.4	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#90

Hexachloroethane

Concen: 18.753 ug/l

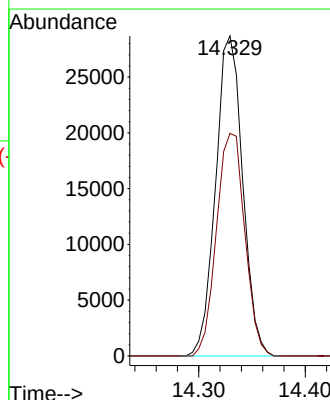
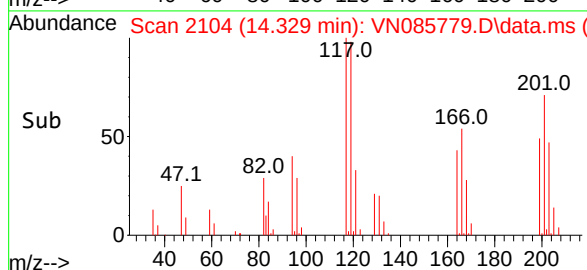
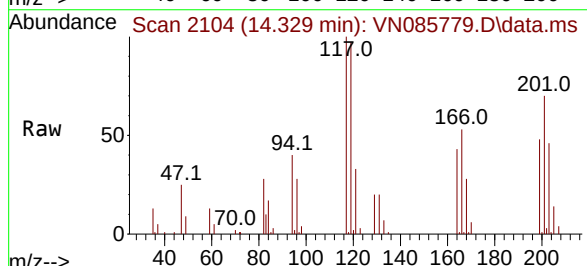
RT: 14.329 min Scan# 2104

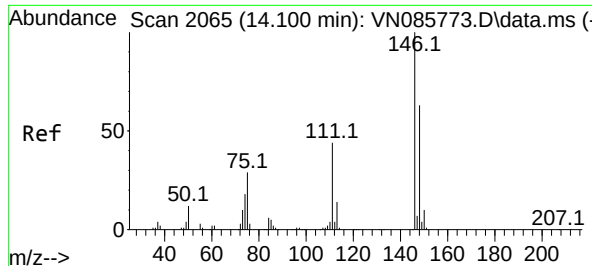
Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Tgt Ion:	117	Resp:	50599
Ion	Ratio	Lower	Upper
117	100		
201	72.8	35.6	106.9





#91

1,2-Dichlorobenzene

Concen: 19.390 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 13893

Ion Ratio Lower Upper

146 100

111 43.5 21.4 64.3

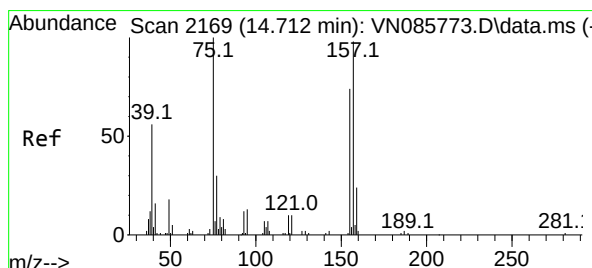
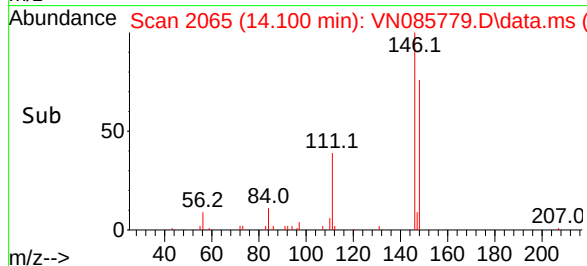
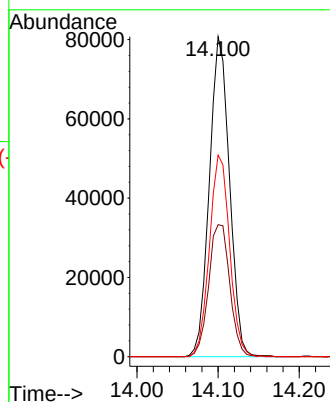
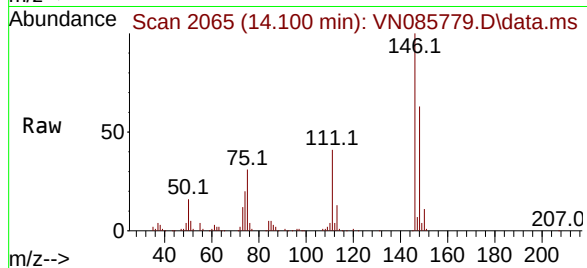
148 63.3 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.639 ug/l

RT: 14.718 min Scan# 2170

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

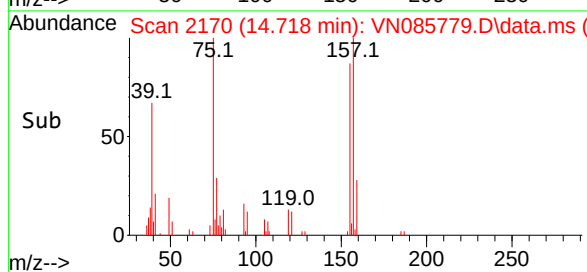
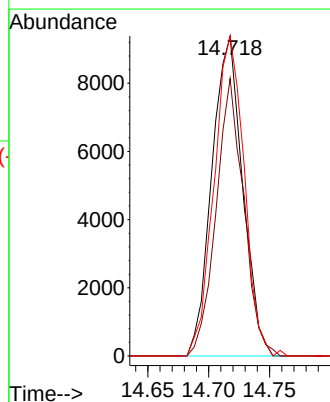
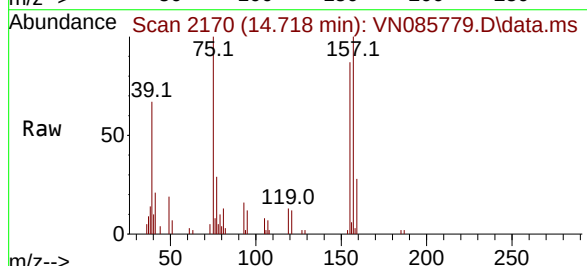
Tgt Ion: 75 Resp: 16407

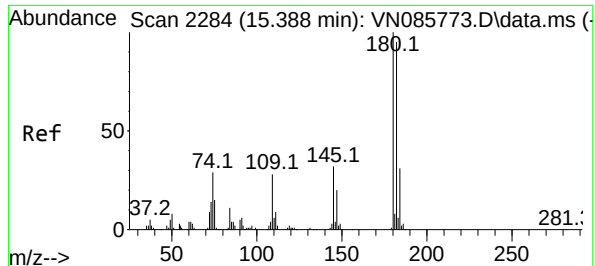
Ion Ratio Lower Upper

75 100

155 78.2 39.9 119.6

157 98.0 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 17.726 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:180 Resp: 60520

Ion Ratio Lower Upper

180 100

182 97.3 47.3 141.9

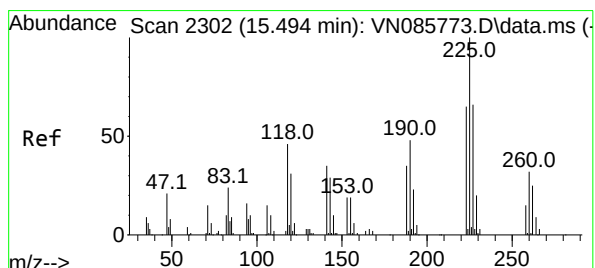
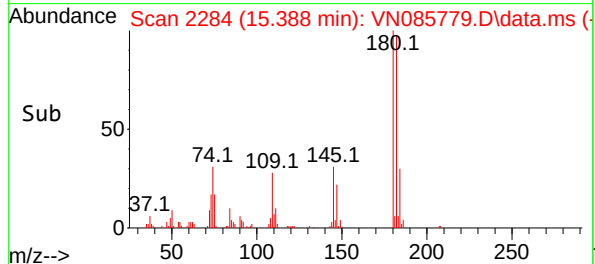
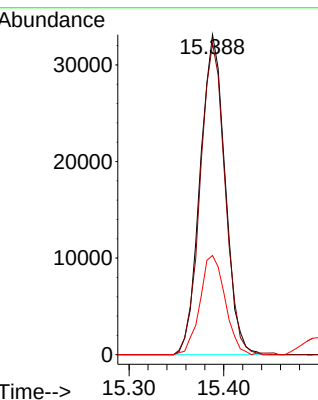
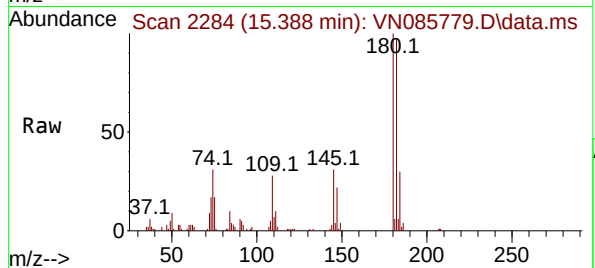
145 31.3 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

Concen: 16.763 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN085779.D

Acq: 18 Feb 2025 14:18

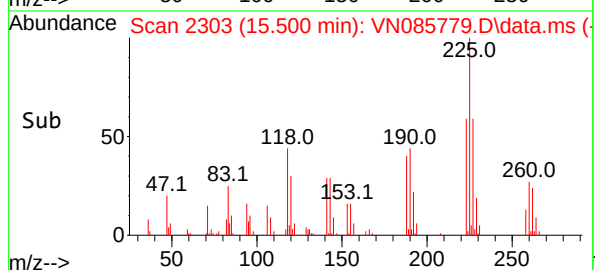
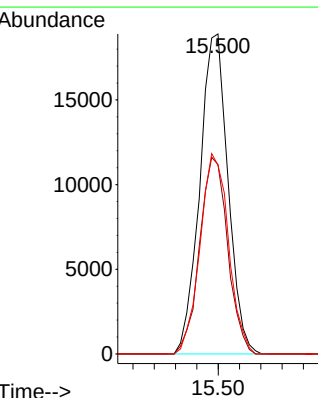
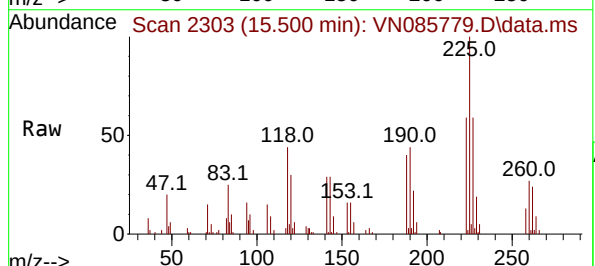
Tgt Ion:225 Resp: 34783

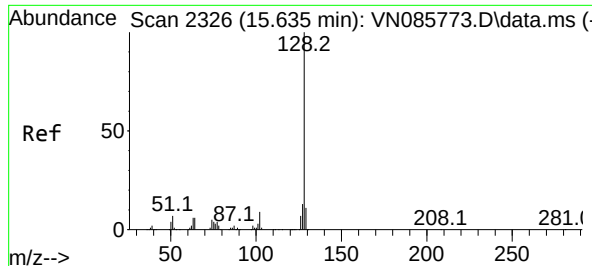
Ion Ratio Lower Upper

225 100

223 61.0 31.9 95.5

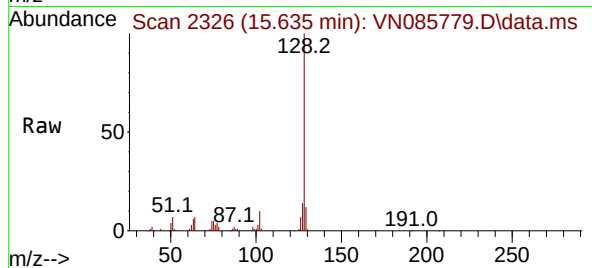
227 63.1 32.2 96.6





#95
Naphthalene
Concen: 16.700 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

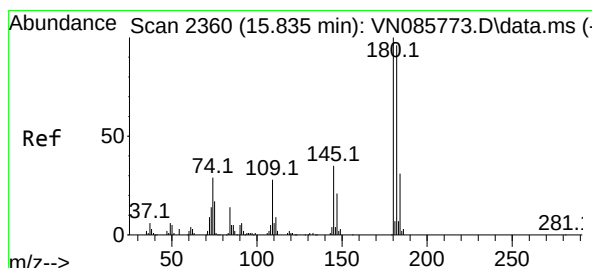
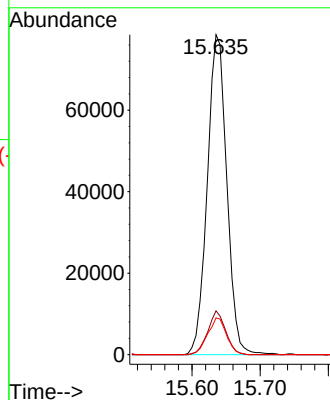
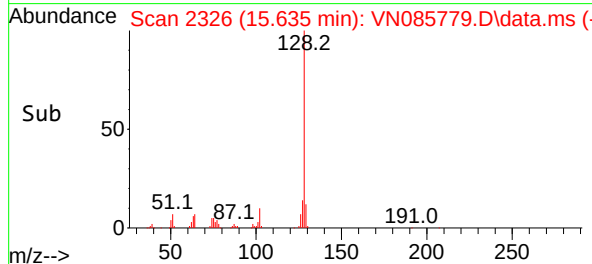
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion:128 Resp: 15653
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.2
129 11.2 8.7 13.1

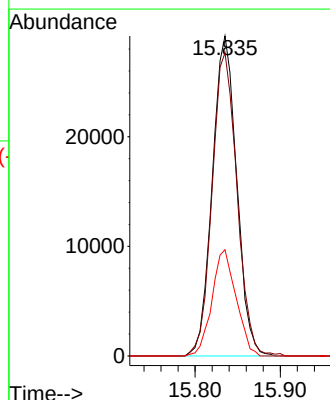
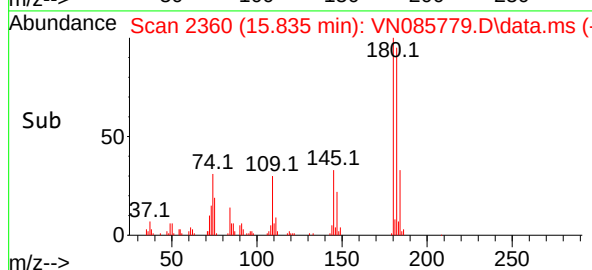
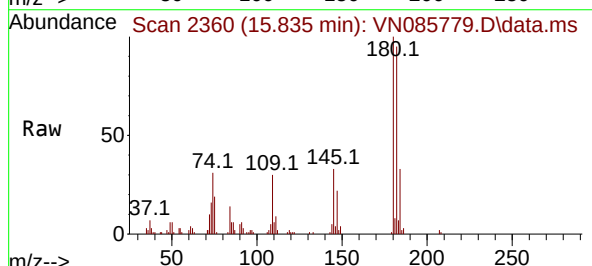
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.921 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085779.D
Acq: 18 Feb 2025 14:18

Tgt Ion:180 Resp: 57998
Ion Ratio Lower Upper
180 100
182 96.6 47.3 141.8
145 32.9 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/19/2025
 Supervised By : Mahesh Dadoda 02/19/2025

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	314015	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	510764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	456487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	222696	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	204064	50.125	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.260%	
35) Dibromofluoromethane	8.165	113	170358	50.972	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.940%	
50) Toluene-d8	10.559	98	651463	53.575	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.140%	
62) 4-Bromofluorobenzene	12.841	95	227023	56.665	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 113.320%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	193054	45.199	ug/l	98
3) Chloromethane	2.359	50	181889	42.438	ug/l	98
4) Vinyl Chloride	2.512	62	197171	43.449	ug/l	97
5) Bromomethane	2.953	94	119789	41.282	ug/l	95
6) Chloroethane	3.118	64	122900	40.887	ug/l	95
7) Trichlorofluoromethane	3.500	101	279842	42.592	ug/l	98
8) Diethyl Ether	3.959	74	96415	45.353	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	165520	43.582	ug/l	98
10) Methyl Iodide	4.589	142	211559	45.190	ug/l	99
11) Tert butyl alcohol	5.506	59	118845	237.350	ug/l	99
12) 1,1-Dichloroethene	4.336	96	153815	44.667	ug/l	98
13) Acrolein	4.171	56	179054	241.140	ug/l	97
14) Allyl chloride	5.024	41	201442	44.555	ug/l	99
15) Acrylonitrile	5.712	53	378819	232.720	ug/l	99
16) Acetone	4.418	43	279680	217.115	ug/l	99
17) Carbon Disulfide	4.712	76	423019	41.449	ug/l	99
18) Methyl Acetate	5.018	43	194998	44.011	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	491324	48.014	ug/l	99
20) Methylene Chloride	5.277	84	173805	41.955	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	161205	43.475	ug/l	94
22) Diisopropyl ether	6.665	45	483670	47.344	ug/l	99
23) Vinyl Acetate	6.600	43	1698852	242.867	ug/l	99
24) 1,1-Dichloroethane	6.565	63	301375	43.396	ug/l	99
25) 2-Butanone	7.477	43	456416	240.836	ug/l	100
26) 2,2-Dichloropropane	7.482	77	274082	44.383	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	190393	44.284	ug/l	99
28) Bromochloromethane	7.812	49	142695	49.991	ug/l	97
29) Tetrahydrofuran	7.830	42	304613	248.913	ug/l	99
30) Chloroform	7.965	83	312547	43.065	ug/l	97
31) Cyclohexane	8.253	56	248433	42.725	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	281708	43.640	ug/l	99
36) 1,1-Dichloropropene	8.365	75	220335	46.581	ug/l	99
37) Ethyl Acetate	7.553	43	182091	46.779	ug/l	99
38) Carbon Tetrachloride	8.359	117	251949	44.828	ug/l	99
39) Methylcyclohexane	9.600	83	230541	49.612	ug/l	98
40) Benzene	8.600	78	682453	45.016	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
 Data File : VN085780.D
 Acq On : 18 Feb 2025 16:28
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN021825

Quant Time: Feb 19 05:09:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
 Supervised By :Mahesh Dadoda 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	105287	50.597	ug/l	99
42) 1,2-Dichloroethane	8.665	62	223798	45.321	ug/l	100
43) Isopropyl Acetate	8.682	43	317074	46.374	ug/l	99
44) Trichloroethene	9.347	130	161430	43.368	ug/l	99
45) 1,2-Dichloropropane	9.618	63	165383	45.194	ug/l	99
46) Dibromomethane	9.700	93	118394	45.867	ug/l	98
47) Bromodichloromethane	9.882	83	245433	44.443	ug/l	96
48) Methyl methacrylate	9.676	41	149072	51.566	ug/l	99
49) 1,4-Dioxane	9.688	88	55529	1010.103	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	954888	254.433	ug/l	100
52) Toluene	10.623	92	429445	48.324	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	249572	48.873	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	269744	48.172	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	160020	45.289	ug/l	99
56) Ethyl methacrylate	10.871	69	243449	48.142	ug/l	99
57) 1,3-Dichloropropane	11.159	76	272817	46.254	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	565673	276.203	ug/l	99
59) 2-Hexanone	11.188	43	687507	266.284	ug/l	100
60) Dibromochloromethane	11.353	129	192169	46.707	ug/l	100
61) 1,2-Dibromoethane	11.465	107	157602	47.208	ug/l	99
64) Tetrachloroethene	11.100	164	148840	42.088	ug/l	98
65) Chlorobenzene	11.888	112	464545	44.422	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	163676	43.545	ug/l	100
67) Ethyl Benzene	11.959	91	797025	48.655	ug/l	99
68) m/p-Xylenes	12.065	106	619505	99.562	ug/l	100
69) o-Xylene	12.394	106	294679	49.837	ug/l	100
70) Styrene	12.406	104	498501	45.726	ug/l	99
71) Bromoform	12.576	173	130201	46.617	ug/l #	97
73) Isopropylbenzene	12.694	105	747608	49.002	ug/l	100
74) N-amyl acetate	12.488	43	265786	49.401	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	225776	43.005	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	227901m	46.070	ug/l	
77) Bromobenzene	12.976	156	185833	45.084	ug/l	98
78) n-propylbenzene	13.029	91	872362	49.927	ug/l	99
79) 2-Chlorotoluene	13.123	91	541105	46.350	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	622090	50.055	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	79943	47.152	ug/l	94
82) 4-Chlorotoluene	13.217	91	548585	47.401	ug/l	99
83) tert-Butylbenzene	13.435	119	521552	49.904	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	633621	51.531	ug/l	99
85) sec-Butylbenzene	13.612	105	737200	49.925	ug/l	100
86) p-Isopropyltoluene	13.723	119	617918	46.012	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	341228	44.186	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	338619	42.781	ug/l	100
89) n-Butylbenzene	14.053	91	513863	49.015	ug/l	98
90) Hexachloroethane	14.329	117	119768	42.828	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	325885	43.883	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41836	43.396	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	161503	45.640	ug/l	99
94) Hexachlorobutadiene	15.494	225	84060	39.087	ug/l	99
95) Naphthalene	15.635	128	487372	50.167	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	158416	44.593	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

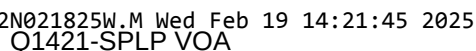
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

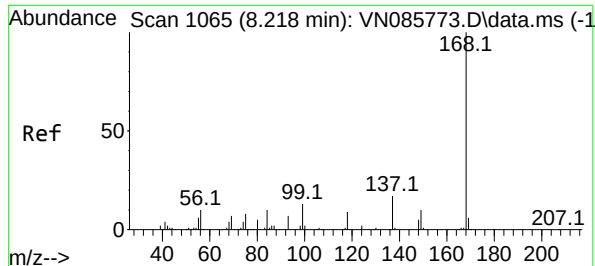
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025





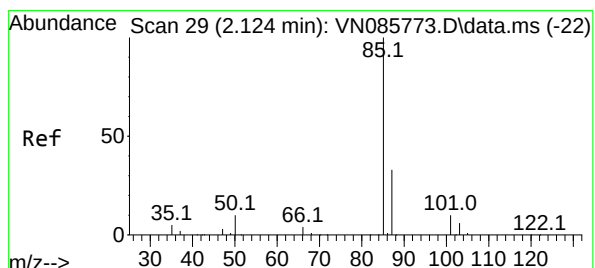
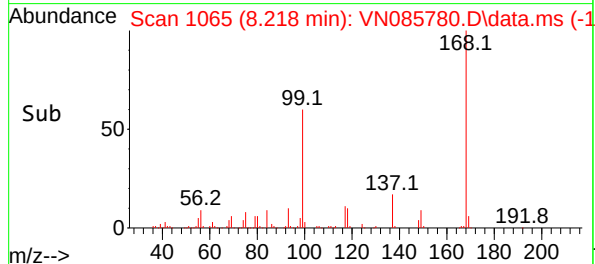
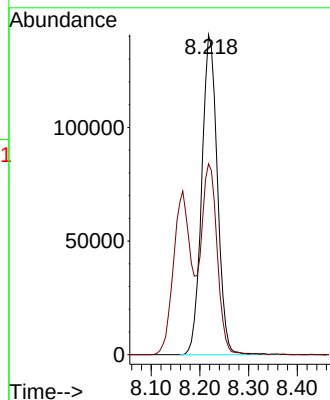
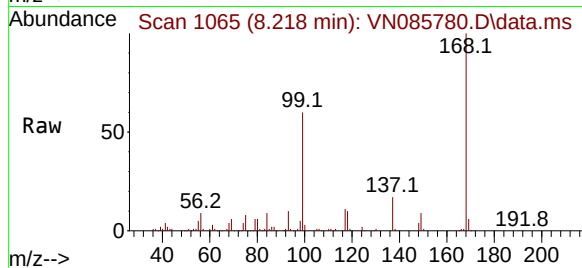
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Tgt Ion:168 Resp: 314015
Ion Ratio Lower Upper
168 100
99 59.5 47.9 71.9

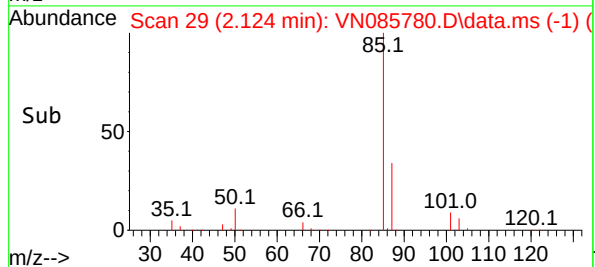
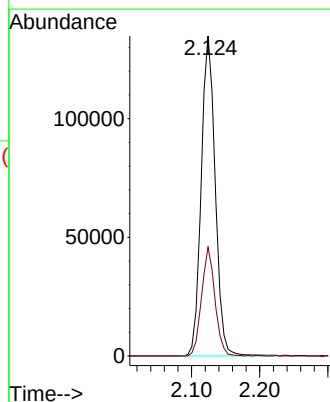
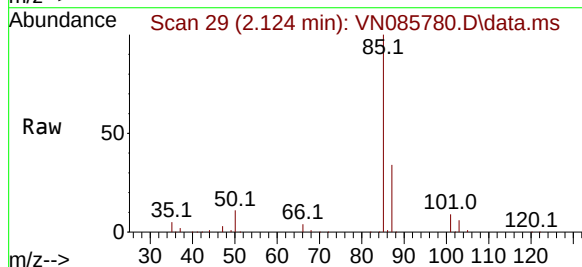
Manual Integrations
APPROVED

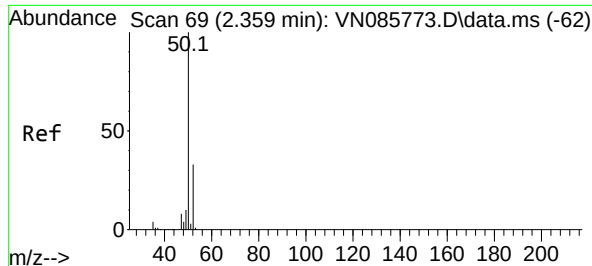
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#2
Dichlorodifluoromethane
Concen: 45.199 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

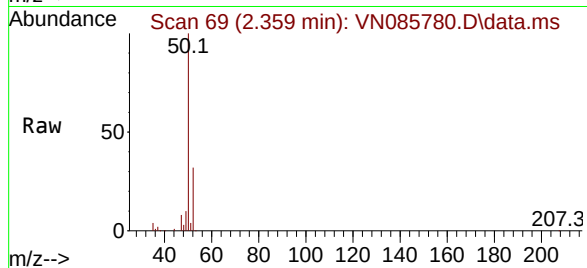
Tgt Ion: 85 Resp: 193054
Ion Ratio Lower Upper
85 100
87 34.0 16.4 49.2





#3
Chloromethane
Concen: 42.438 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

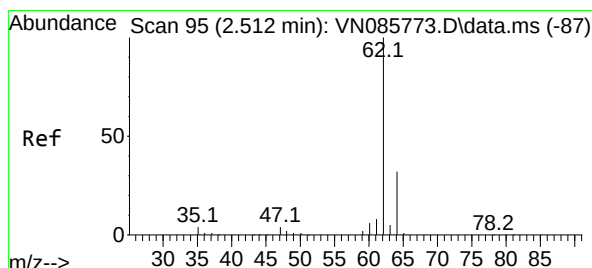
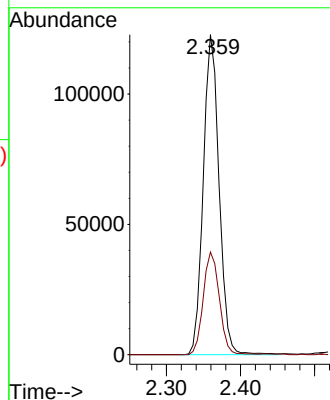
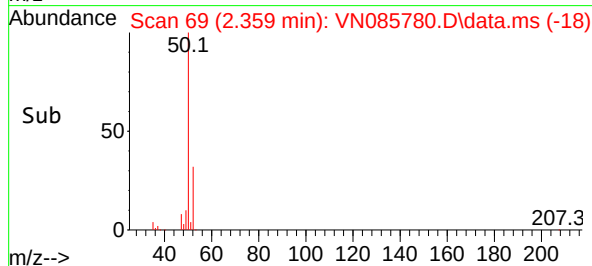
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 50 Resp: 181889
Ion Ratio Lower Upper
50 100
52 32.0 26.7 40.1

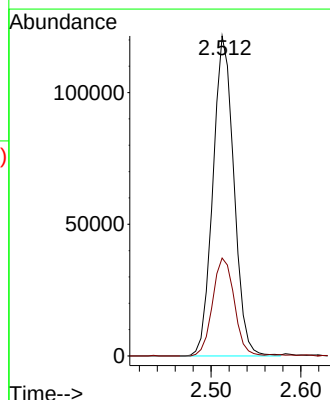
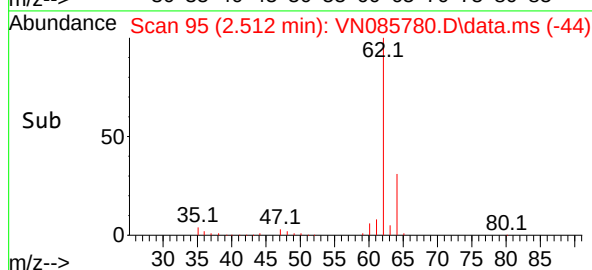
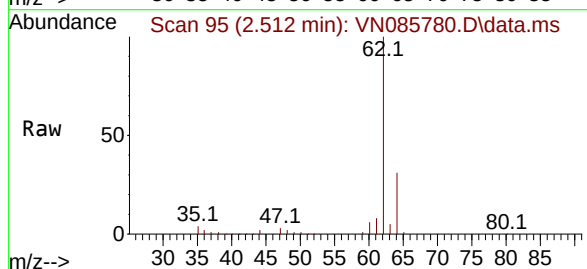
Manual Integrations
APPROVED

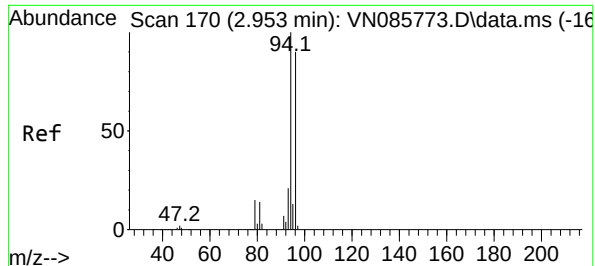
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#4
Vinyl Chloride
Concen: 43.449 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

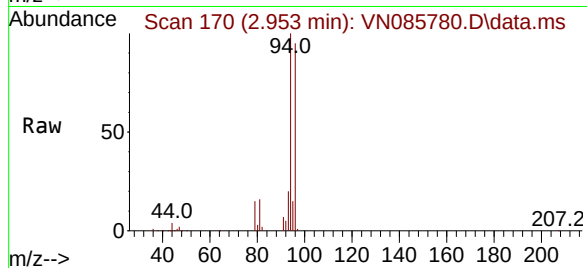
Tgt Ion: 62 Resp: 197171
Ion Ratio Lower Upper
62 100
64 30.6 25.9 38.9





#5
Bromomethane
Concen: 41.282 ug/l
RT: 2.953 min Scan# 119789
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

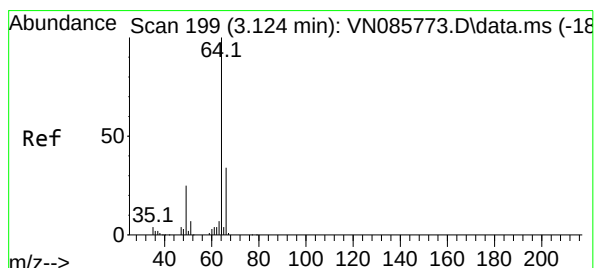
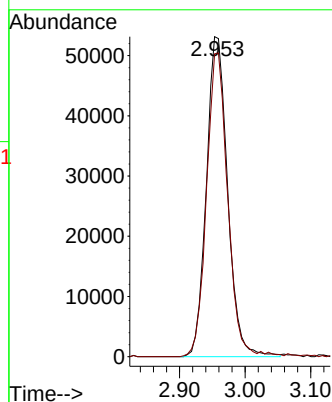
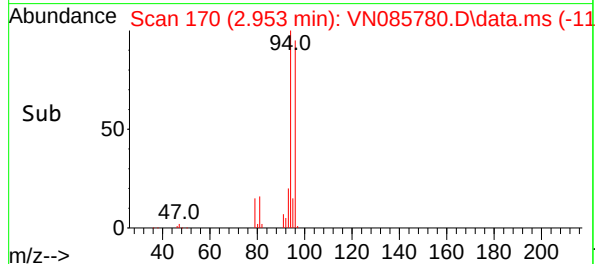
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 94 Resp: 119789
Ion Ratio Lower Upper
94 100
96 94.6 71.7 107.5

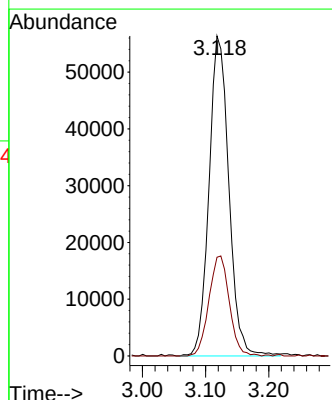
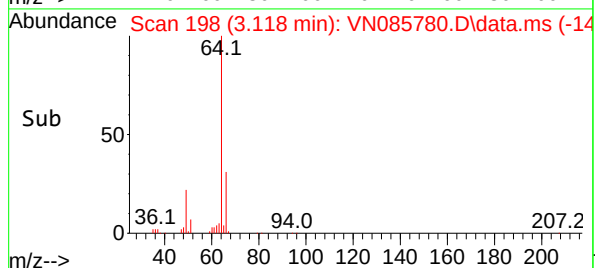
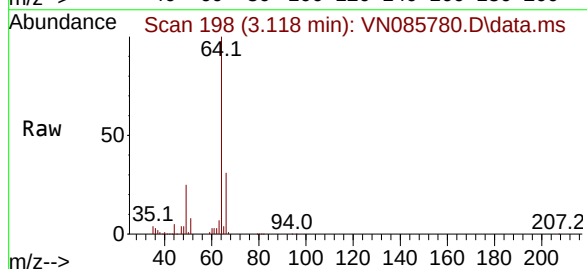
Manual Integrations
APPROVED

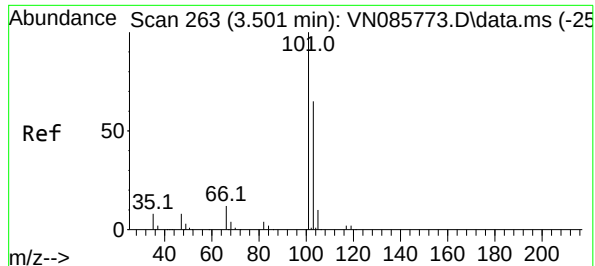
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#6
Chloroethane
Concen: 40.887 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 64 Resp: 122900
Ion Ratio Lower Upper
64 100
66 30.8 27.0 40.6





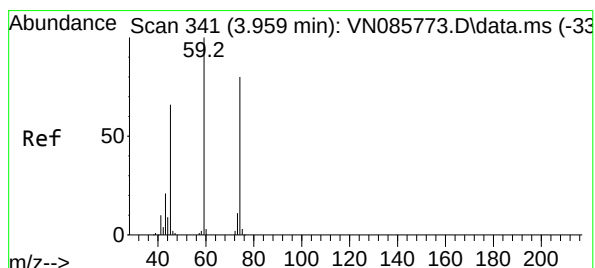
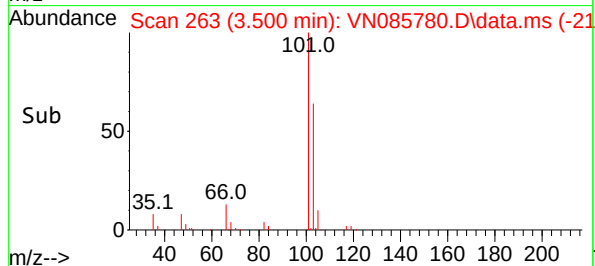
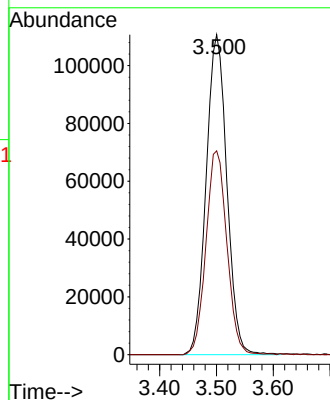
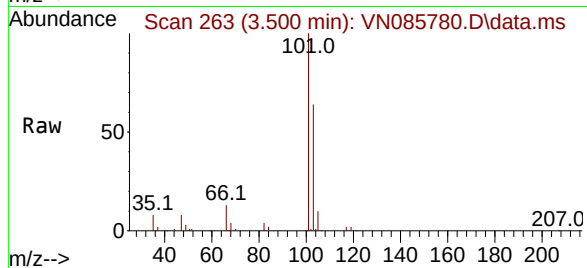
#7
Trichlorofluoromethane
Concen: 42.592 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Tgt Ion:101 Resp: 27984
Ion Ratio Lower Upper
101 100
103 63.7 52.2 78.4

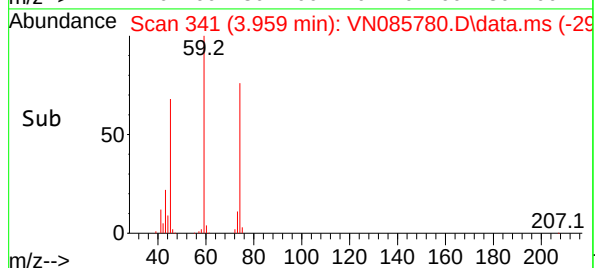
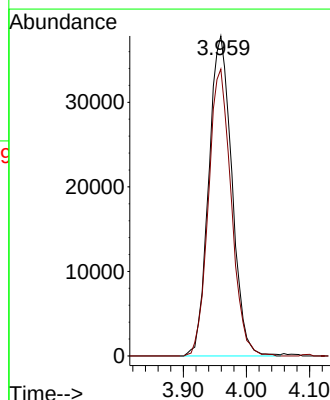
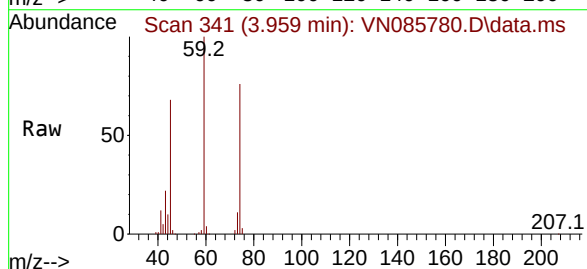
Manual Integrations
APPROVED

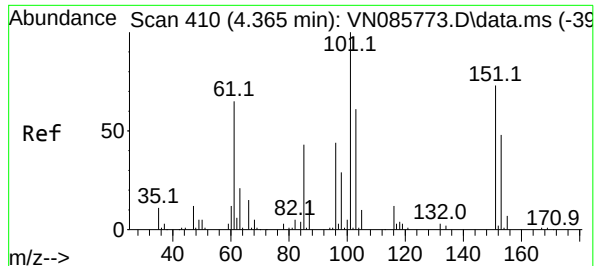
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#8
Diethyl Ether
Concen: 45.353 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 74 Resp: 96415
Ion Ratio Lower Upper
74 100
45 88.2 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.582 ug/l

RT: 4.371 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion:101 Resp: 165520

Ion Ratio Lower Upper

101 100

85 43.4 35.7 53.5

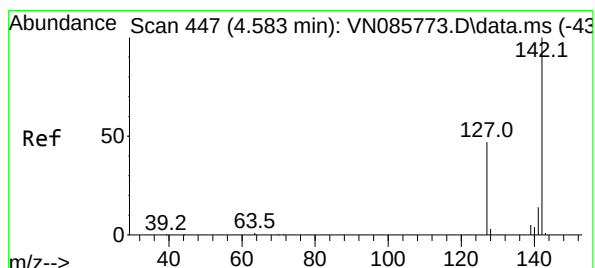
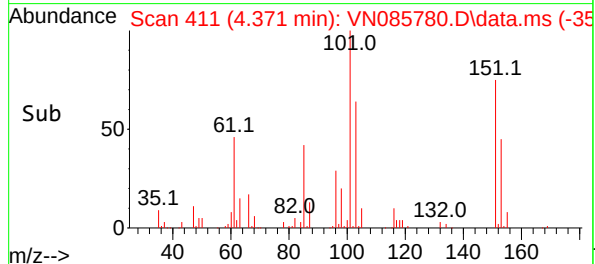
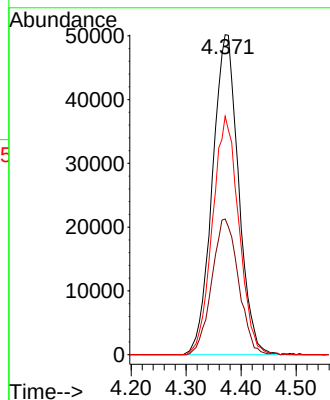
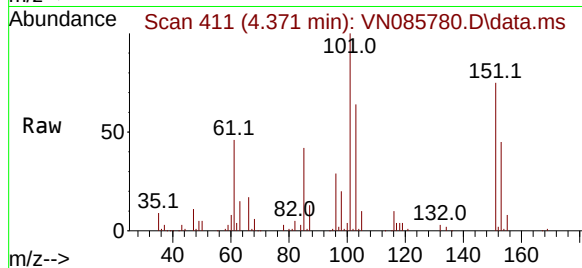
151 75.0 61.4 92.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#10

Methyl Iodide

Concen: 45.190 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

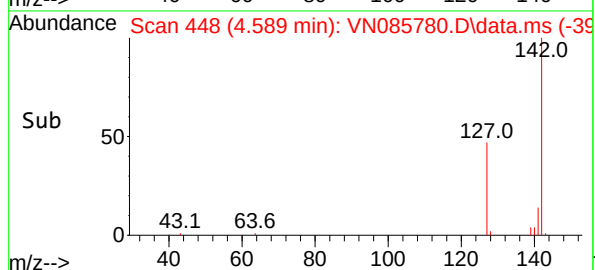
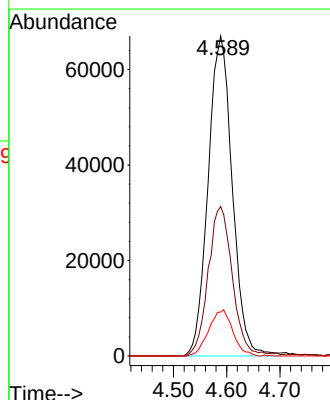
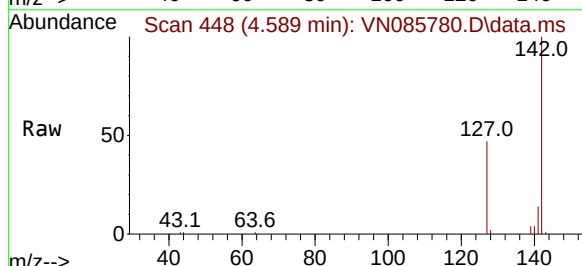
Tgt Ion:142 Resp: 211559

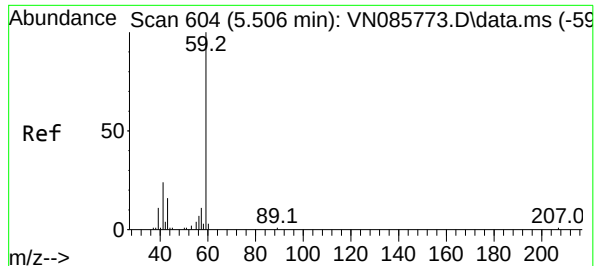
Ion Ratio Lower Upper

142 100

127 46.7 37.6 56.4

141 13.7 11.4 17.2





#11

Tert butyl alcohol

Concen: 237.350 ug/l

RT: 5.506 min Scan# 604

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN021825

Tgt Ion: 59 Resp: 11884

Ion Ratio Lower Upper

59 100

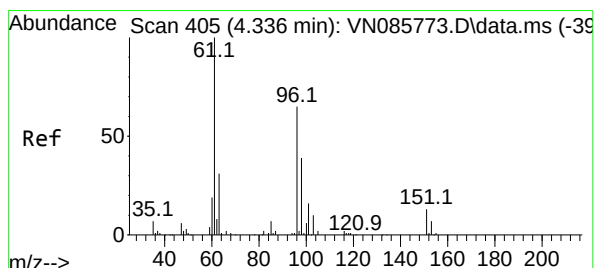
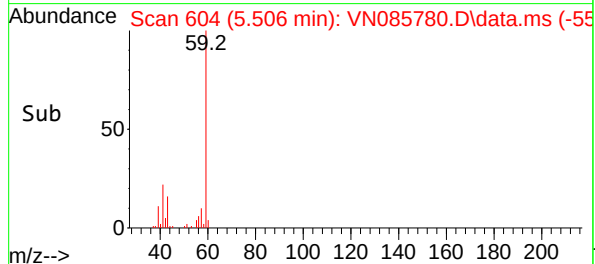
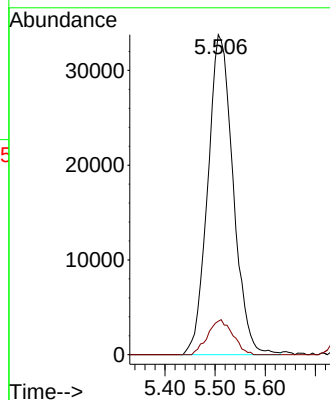
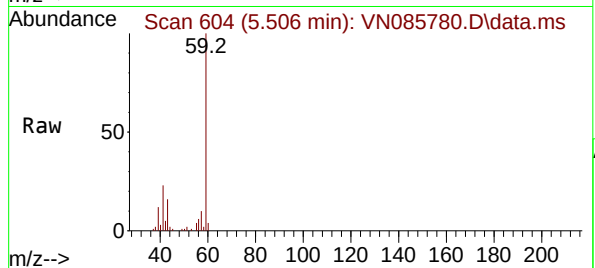
57 10.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#12

1,1-Dichloroethene

Concen: 44.667 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

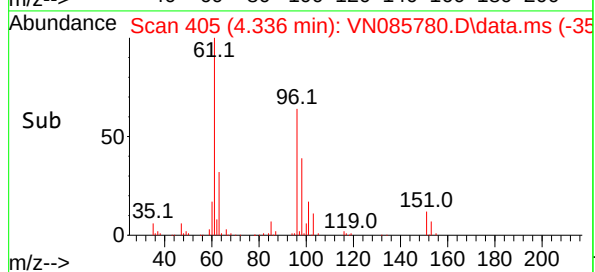
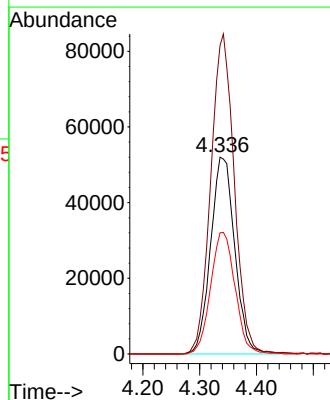
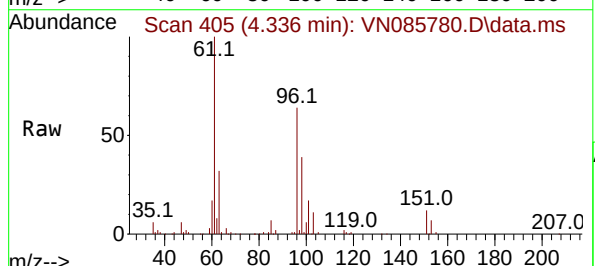
Tgt Ion: 96 Resp: 153815

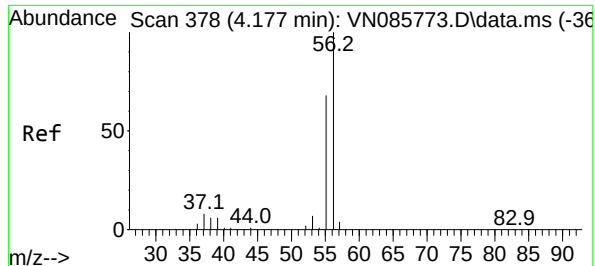
Ion Ratio Lower Upper

96 100

61 156.7 123.3 184.9

98 61.6 48.6 72.8





#13

Acrolein

Concen: 241.140 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 56 Resp: 179054

Ion Ratio Lower Upper

56 100

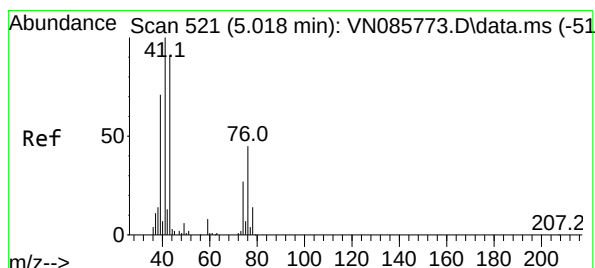
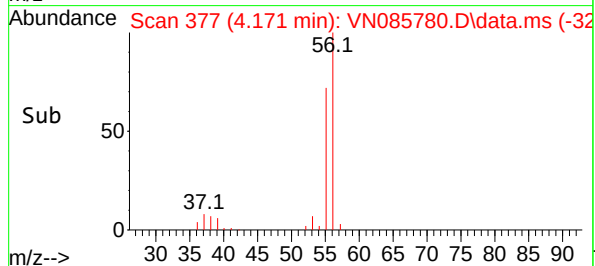
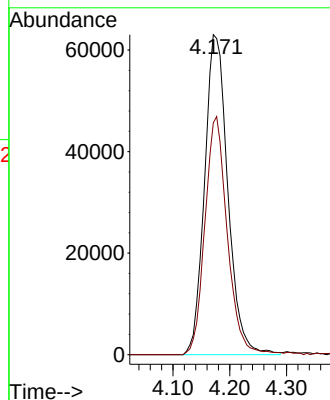
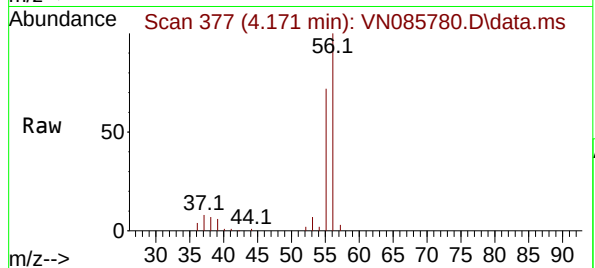
55 71.6 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#14

Allyl chloride

Concen: 44.555 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

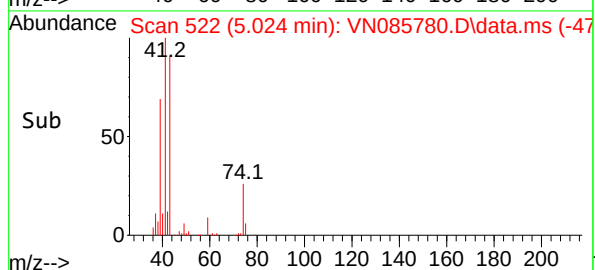
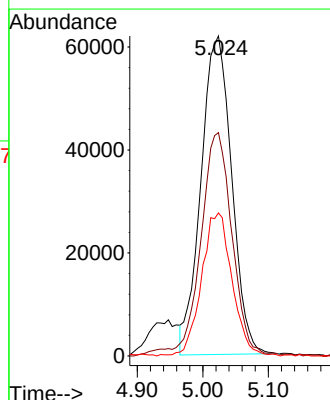
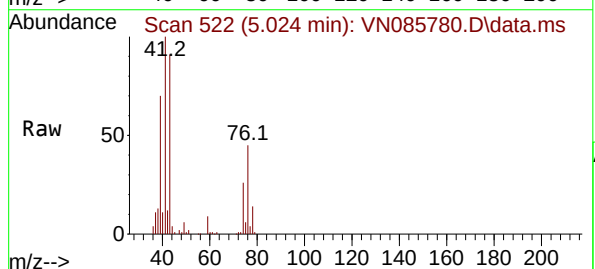
Tgt Ion: 41 Resp: 201442

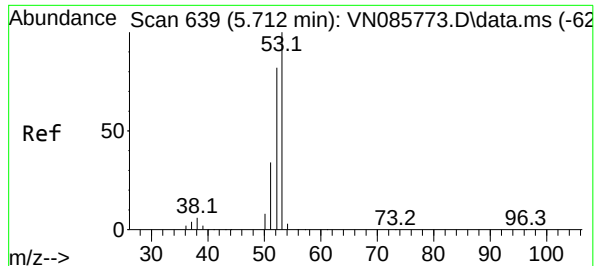
Ion Ratio Lower Upper

41 100

39 72.4 57.4 86.2

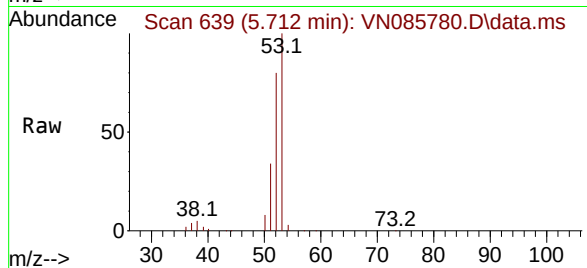
76 44.6 36.2 54.2





#15
Acrylonitrile
Concen: 232.720 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

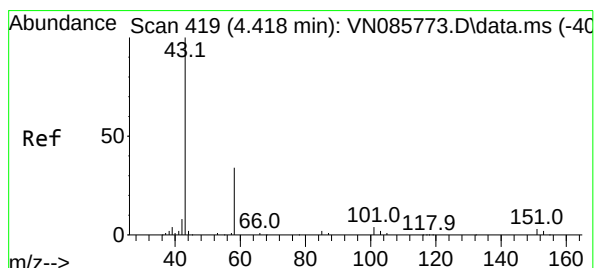
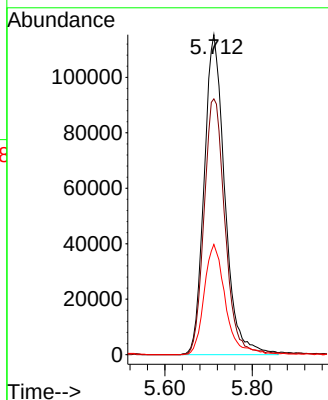
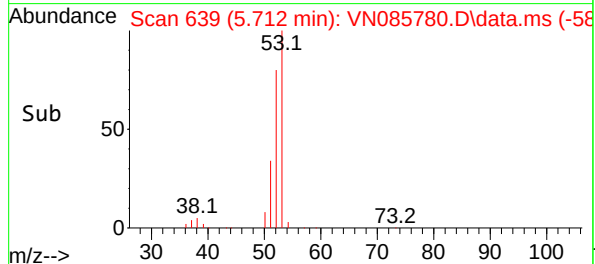
Instrument :
MSVOA_N
ClientSampleId :
ICVNV021825



Tgt Ion: 53 Resp: 378819
Ion Ratio Lower Upper
53 100
52 81.0 65.8 98.6
51 35.6 28.6 42.8

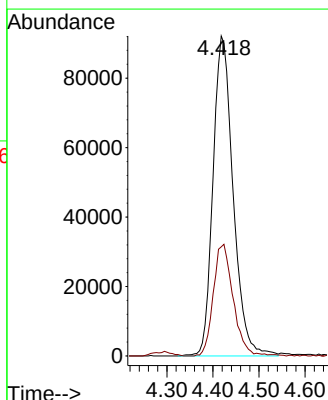
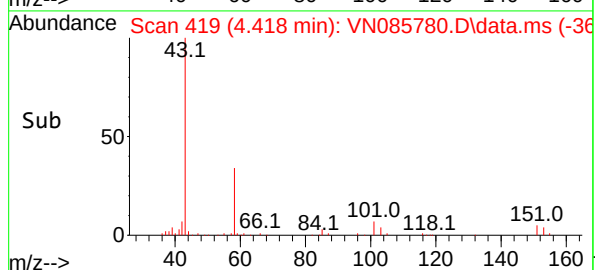
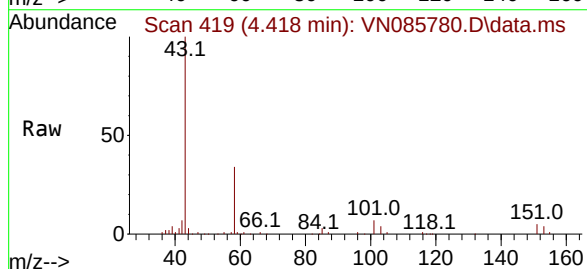
Manual Integrations
APPROVED

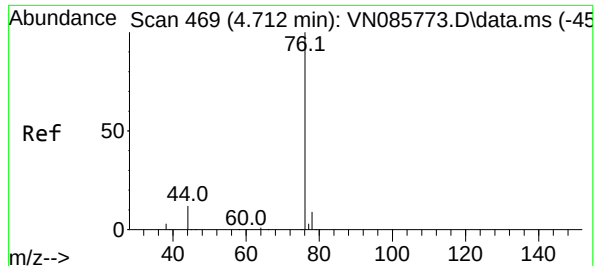
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#16
Acetone
Concen: 217.115 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 43 Resp: 279680
Ion Ratio Lower Upper
43 100
58 33.8 27.5 41.3





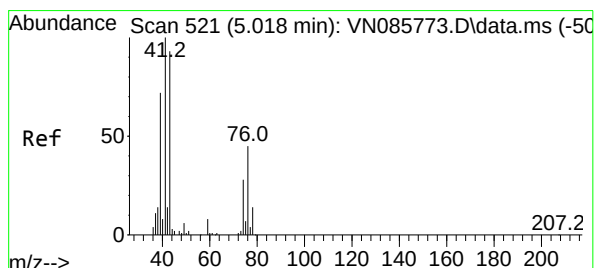
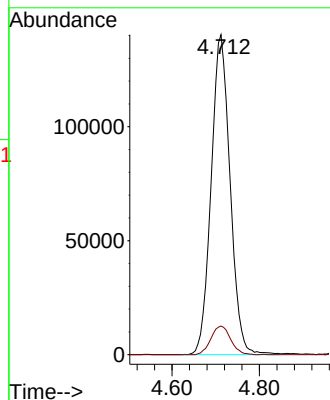
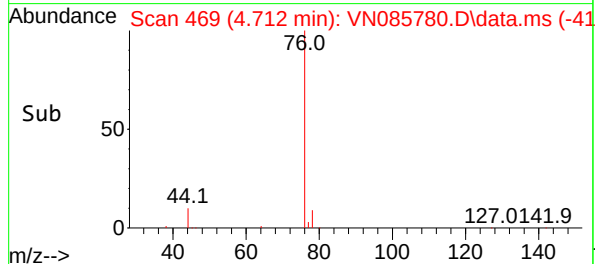
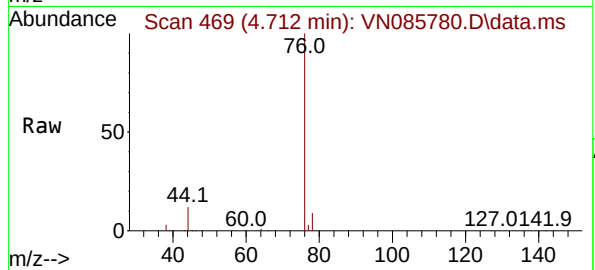
#17
Carbon Disulfide
Concen: 41.449 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
Client Sample Id :
ICVVN021825

Tgt Ion: 76 Resp: 423019
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0

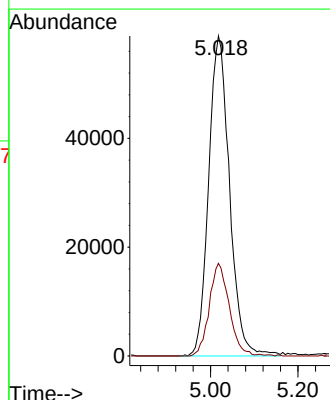
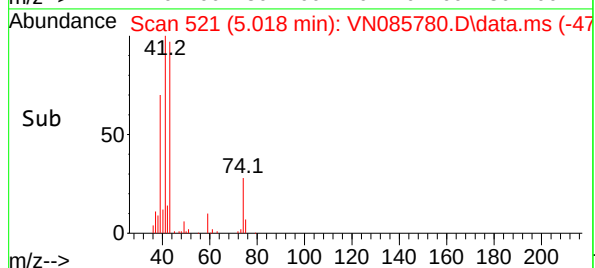
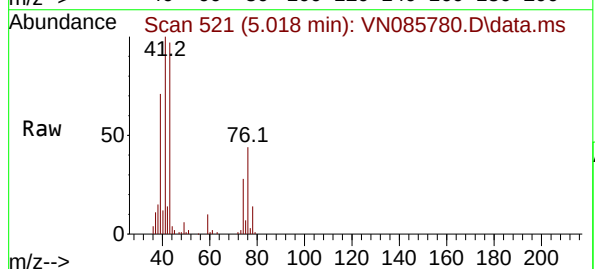
Manual Integrations
APPROVED

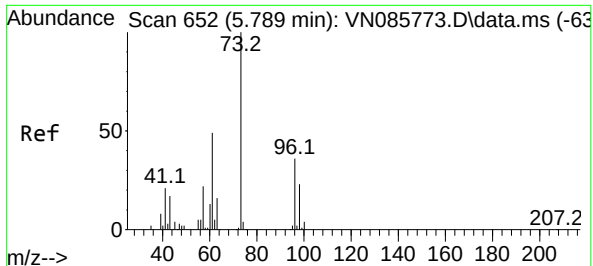
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#18
Methyl Acetate
Concen: 44.011 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 43 Resp: 194998
Ion Ratio Lower Upper
43 100
74 27.5 22.2 33.4





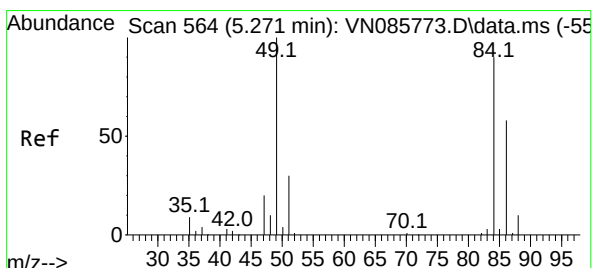
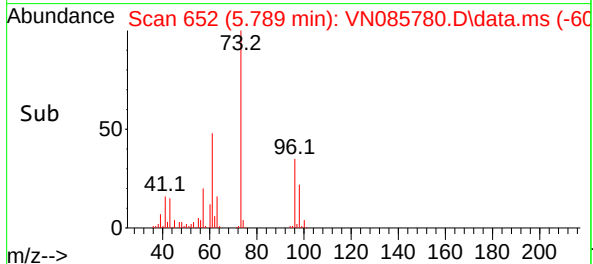
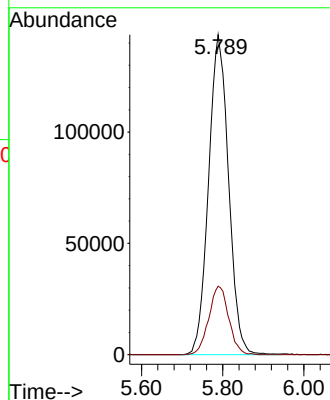
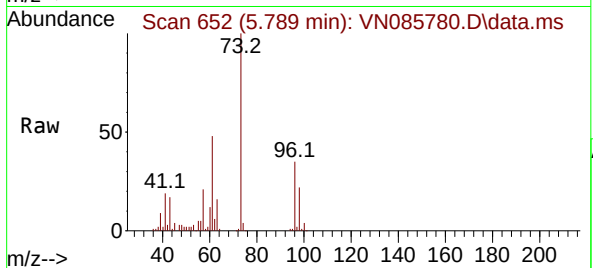
#19
Methyl tert-butyl Ether
Concen: 48.014 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Tgt Ion: 73 Resp: 491324
Ion Ratio Lower Upper
73 100
57 21.4 17.6 26.4

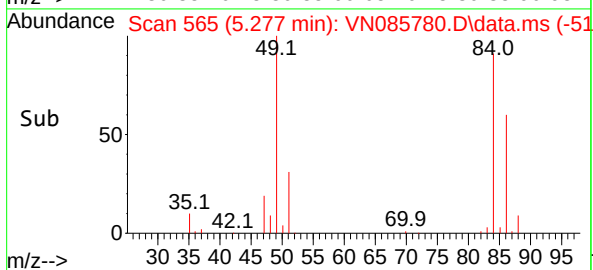
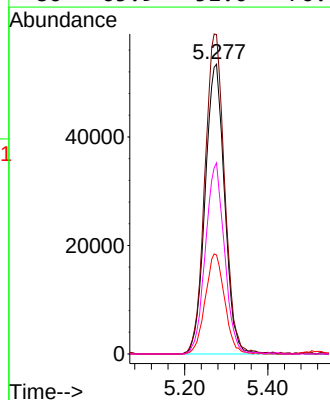
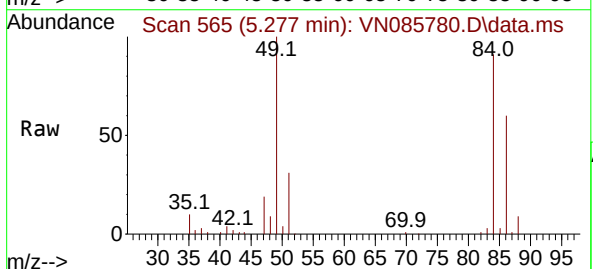
Manual Integrations
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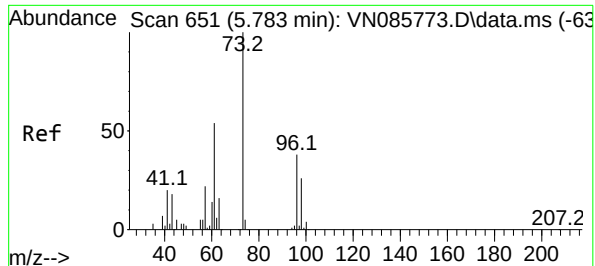
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#20
Methylene Chloride
Concen: 41.955 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

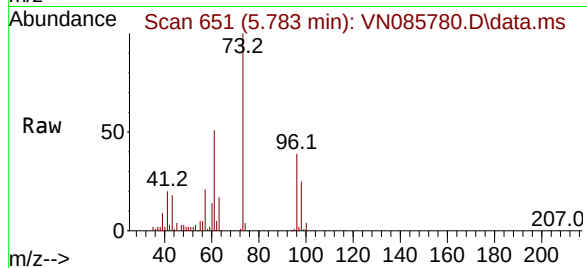
Tgt Ion: 84 Resp: 173805
Ion Ratio Lower Upper
84 100
49 110.2 88.4 132.6
51 34.2 26.6 40.0
86 65.9 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 43.475 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

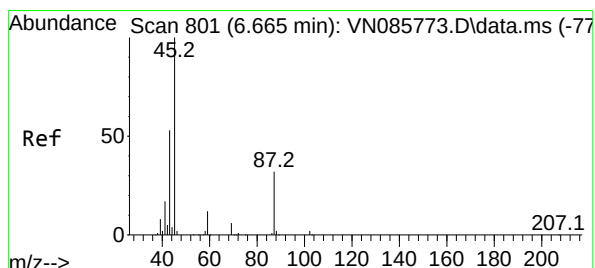
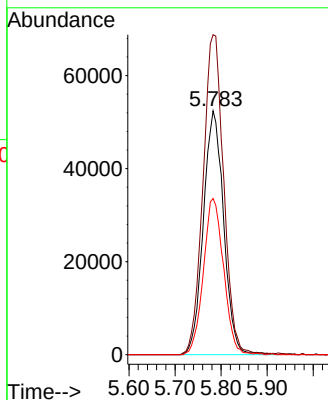
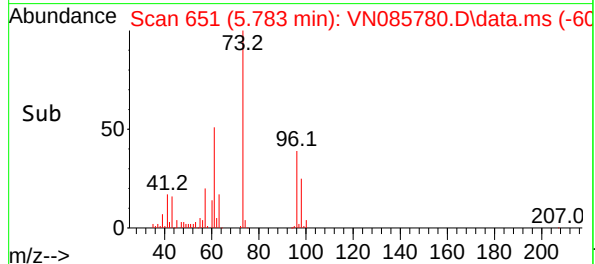
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 96 Resp: 16120
Ion Ratio Lower Upper
96 100
61 131.3 112.6 168.8
98 64.1 53.3 79.9

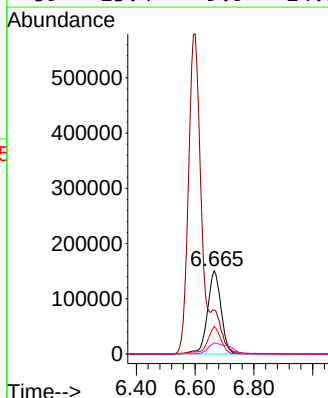
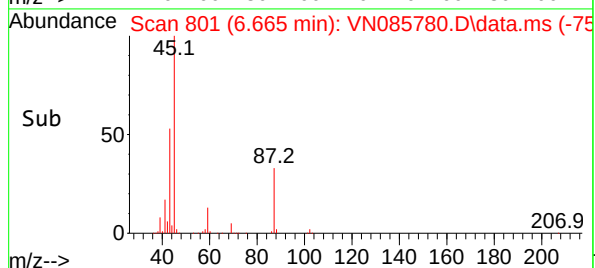
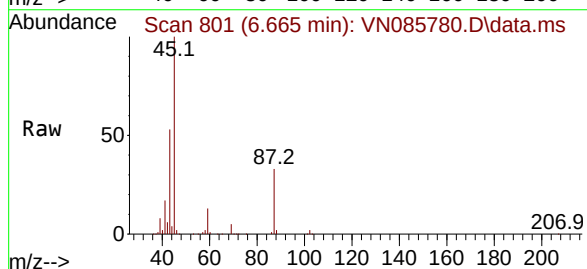
Manual Integrations
APPROVED

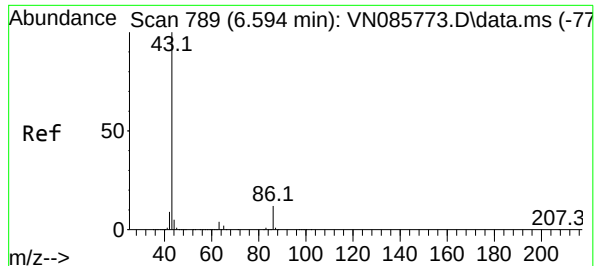
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#22
Diisopropyl ether
Concen: 47.344 ug/l
RT: 6.665 min Scan# 801
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 45 Resp: 483670
Ion Ratio Lower Upper
45 100
43 52.7 42.6 64.0
87 32.9 25.8 38.8
59 13.4 9.9 14.9





#23

Vinyl Acetate

Concen: 242.867 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 43 Resp: 169885

Ion Ratio Lower Upper

43

100

86

12.6

9.8

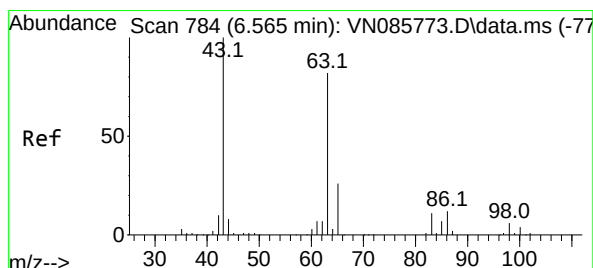
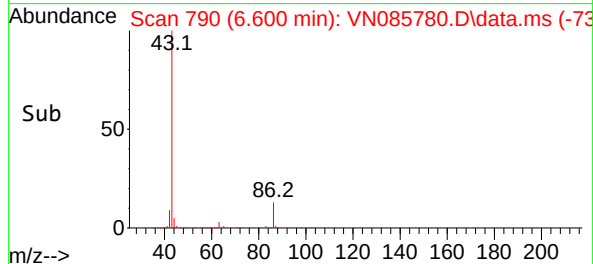
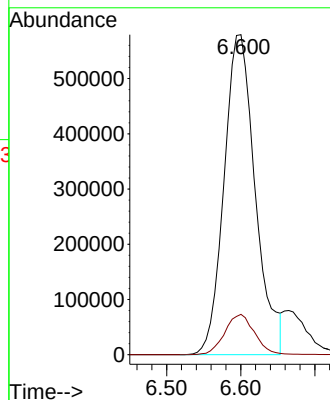
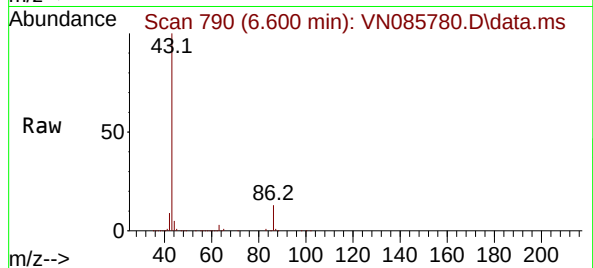
14.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#24

1,1-Dichloroethane

Concen: 43.396 ug/l

RT: 6.565 min Scan# 784

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Tgt Ion: 63 Resp: 301375

Ion Ratio Lower Upper

63

100

98

7.3

3.5

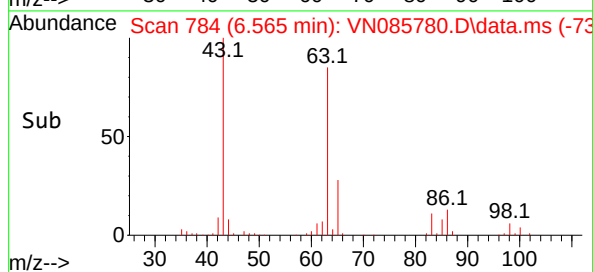
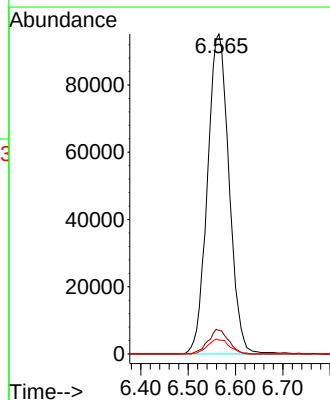
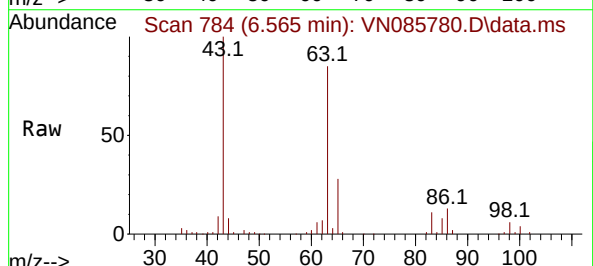
10.4

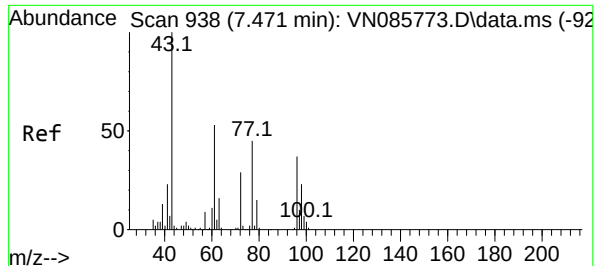
100

4.4

2.4

7.2





#25

2-Butanone

Concen: 240.836 ug/l

RT: 7.477 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNV021825

Tgt Ion: 43 Resp: 456410

Ion Ratio Lower Upper

43 100

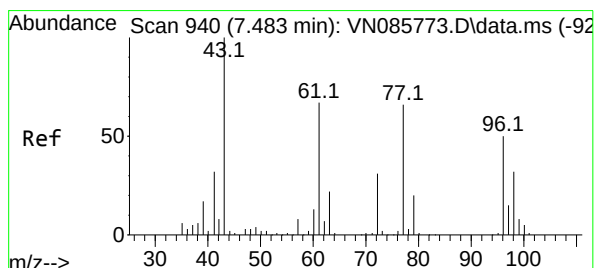
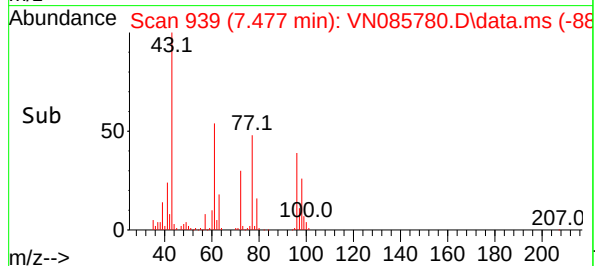
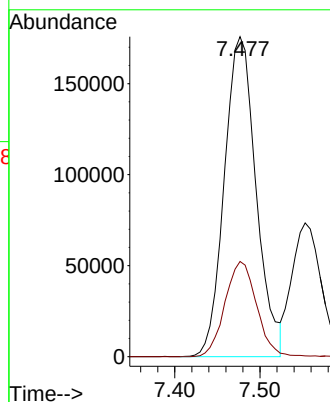
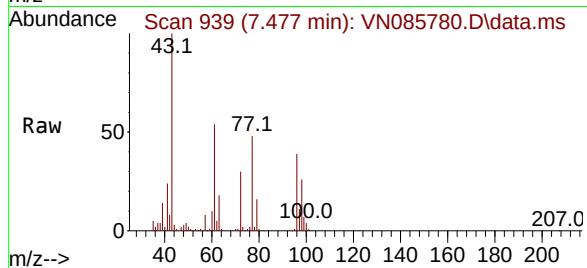
72 29.8 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#26

2,2-Dichloropropane

Concen: 44.383 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085780.D

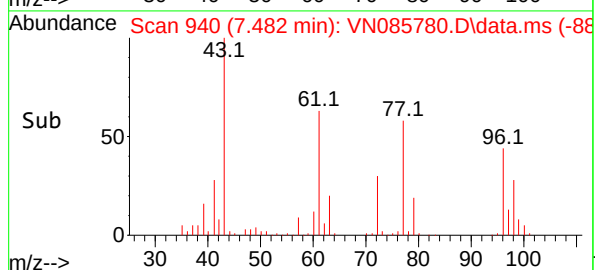
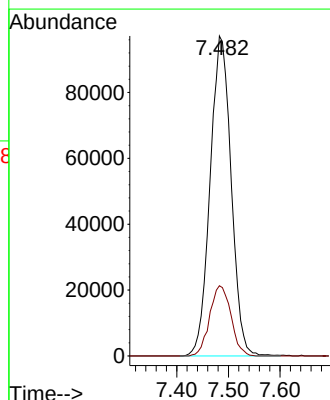
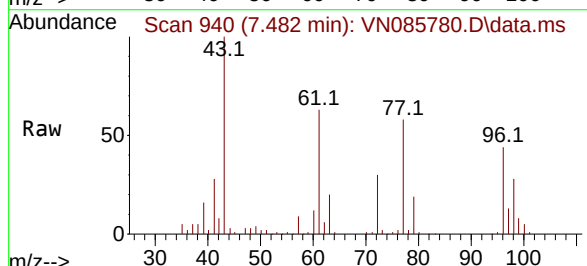
Acq: 18 Feb 2025 16:28

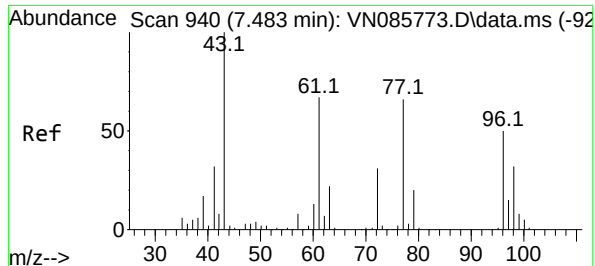
Tgt Ion: 77 Resp: 274082

Ion Ratio Lower Upper

77 100

97 22.2 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 44.284 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN021825

Tgt Ion: 96 Resp: 19039

Ion Ratio Lower Upper

96 100

61 142.1 0.0 280.6

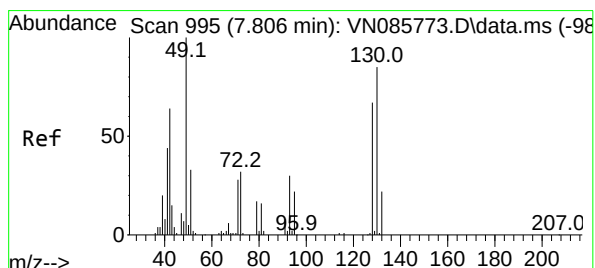
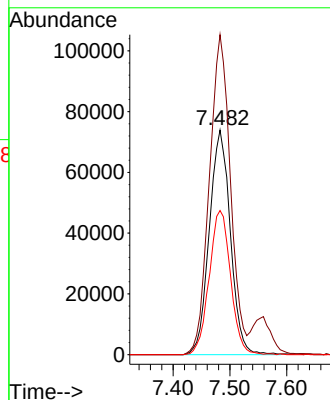
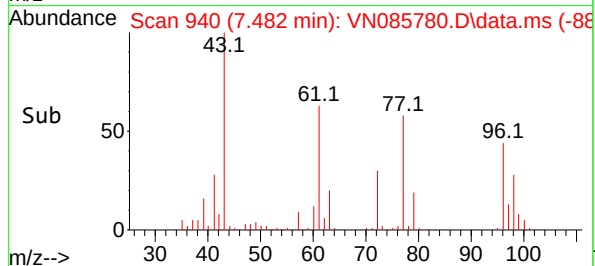
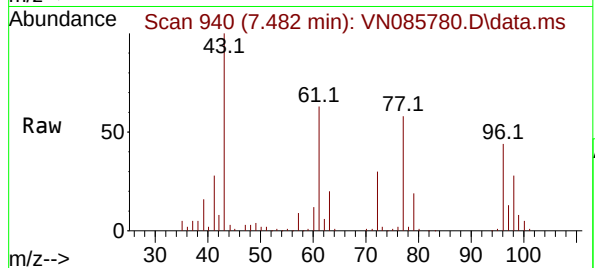
98 65.2 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#28

Bromochloromethane

Concen: 49.991 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

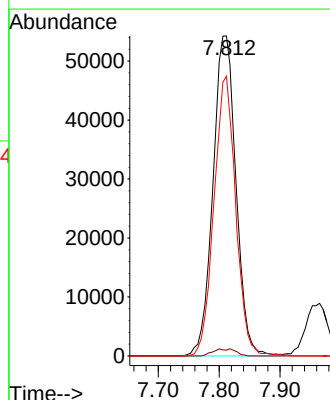
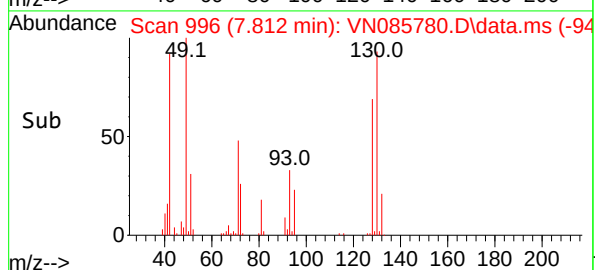
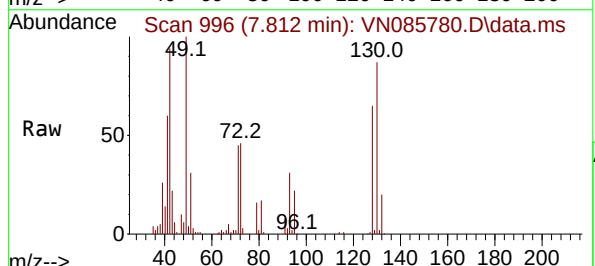
Tgt Ion: 49 Resp: 142695

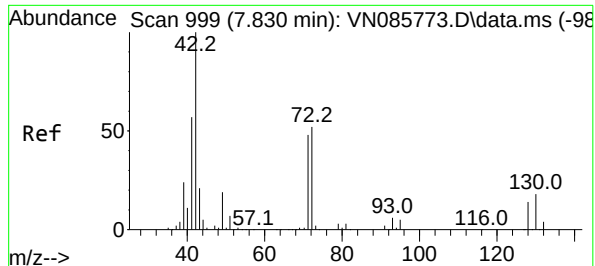
Ion Ratio Lower Upper

49 100

129 2.2 0.0 3.8

130 82.4 68.0 102.0





#29

Tetrahydrofuran

Concen: 248.913 ug/l

RT: 7.830 min Scan# 999

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 42 Resp: 30461

Ion Ratio Lower Upper

42 100

72 49.7 40.0 60.0

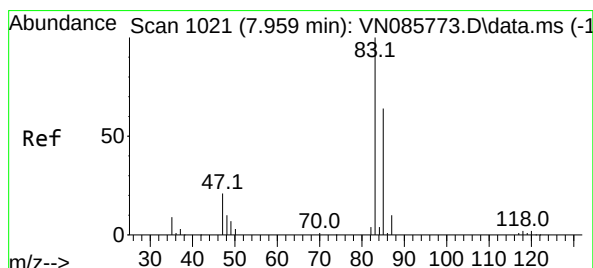
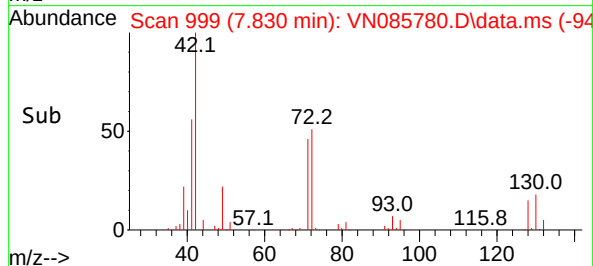
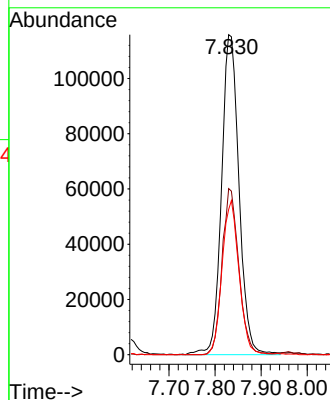
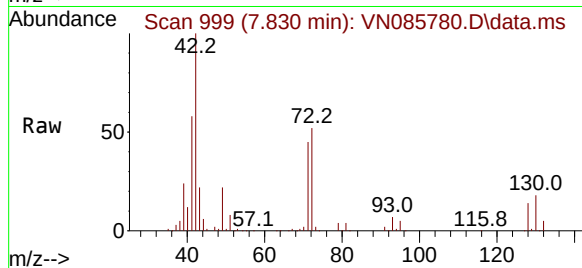
71 46.6 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#30

Chloroform

Concen: 43.065 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085780.D

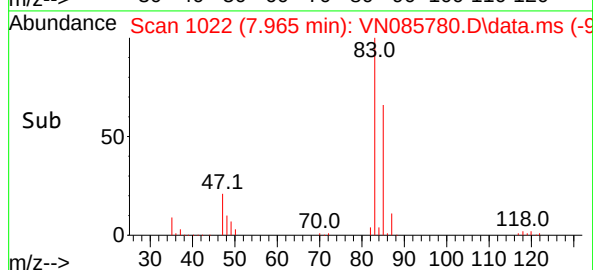
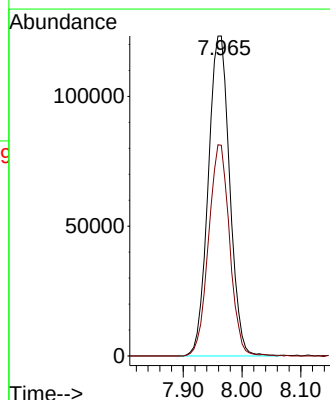
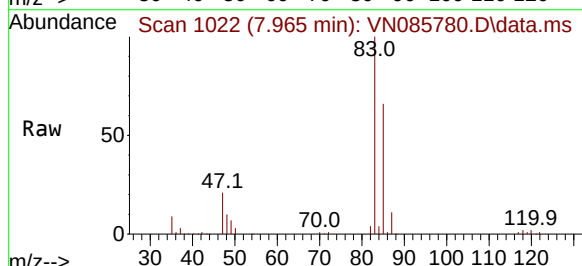
Acq: 18 Feb 2025 16:28

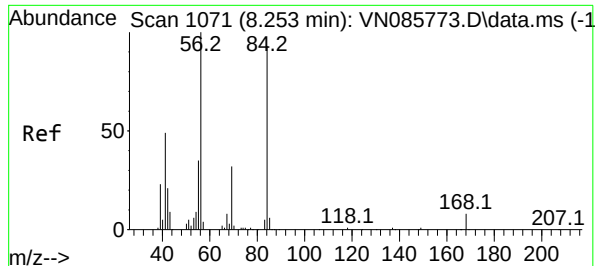
Tgt Ion: 83 Resp: 312547

Ion Ratio Lower Upper

83 100

85 65.9 50.9 76.3





#31

Cyclohexane

Concen: 42.725 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNV021825

Tgt Ion: 56 Resp: 24843

Ion Ratio Lower Upper

56 100

69 32.5 25.8 38.6

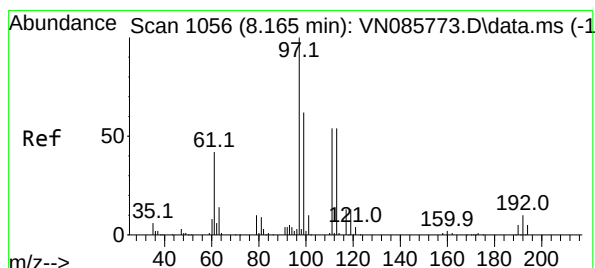
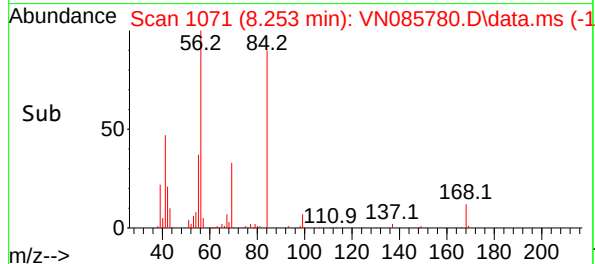
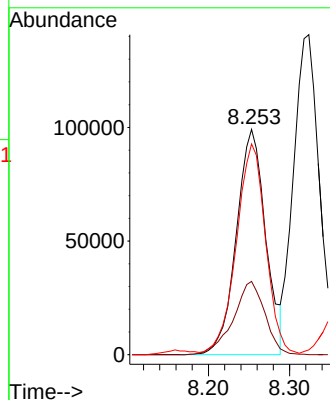
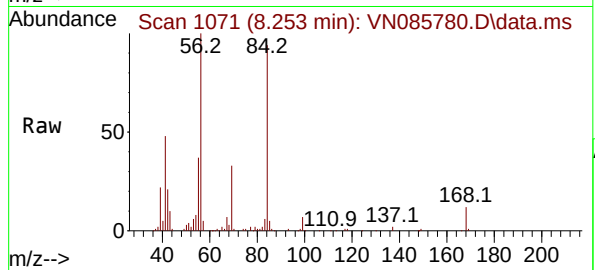
84 91.8 74.5 111.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#32

1,1,1-Trichloroethane

Concen: 43.640 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

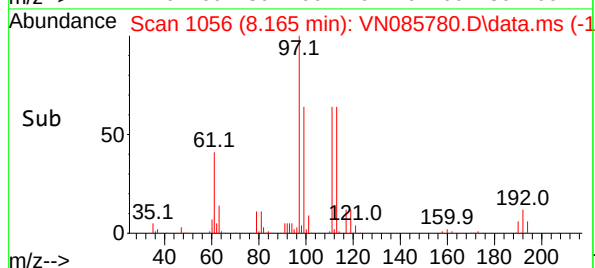
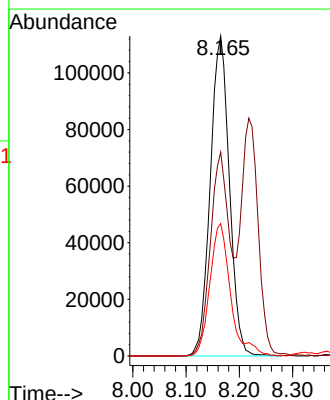
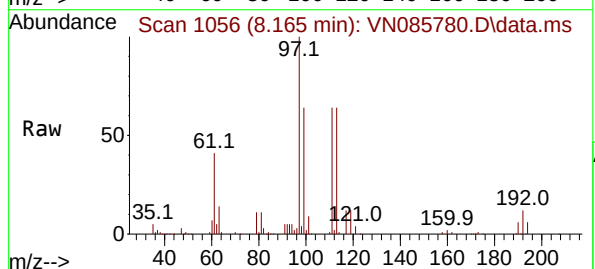
Tgt Ion: 97 Resp: 281708

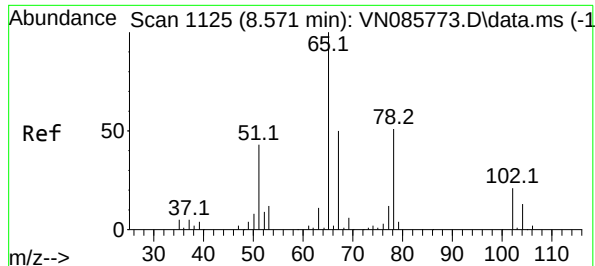
Ion Ratio Lower Upper

97 100

99 61.8 50.4 75.6

61 44.7 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 50.125 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 65 Resp: 204064

Ion Ratio Lower Upper

65 100

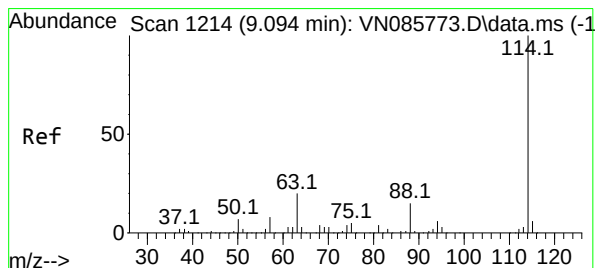
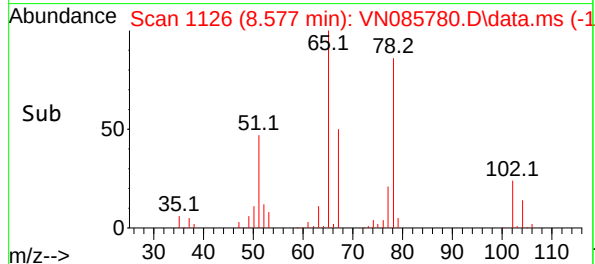
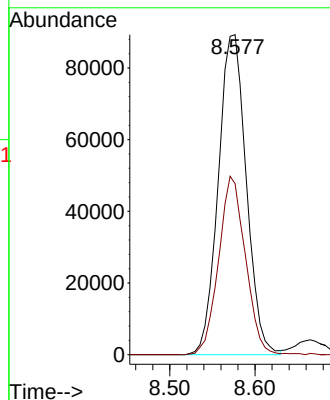
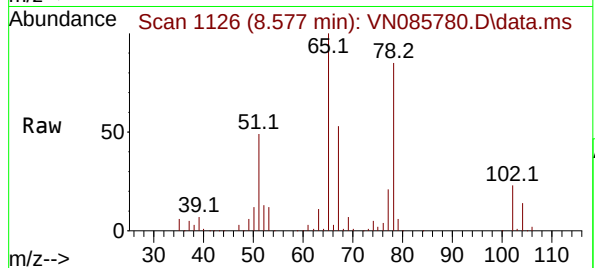
67 53.4 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

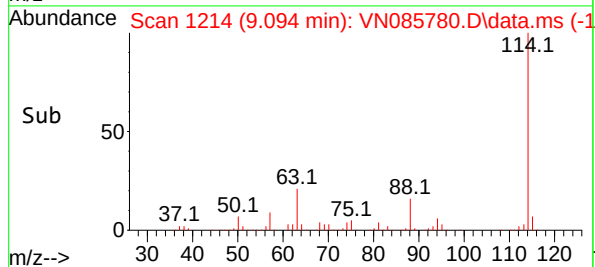
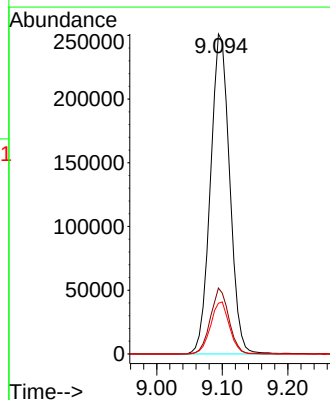
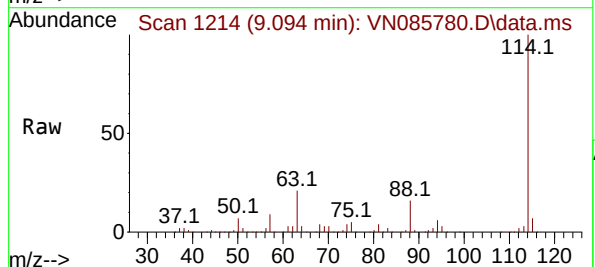
Tgt Ion:114 Resp: 510764

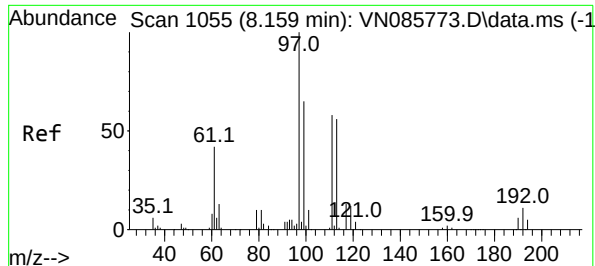
Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.2

88 15.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 50.972 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNV021825

Tgt Ion: 113 Resp: 170358

Ion Ratio Lower Upper

113 100

111 104.1 82.2 123.4

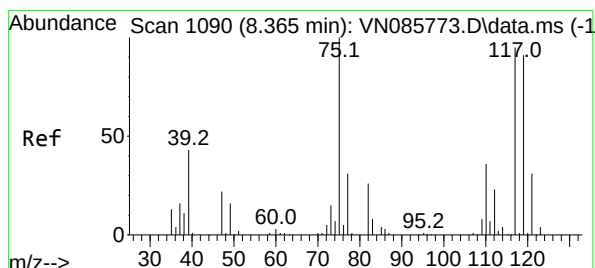
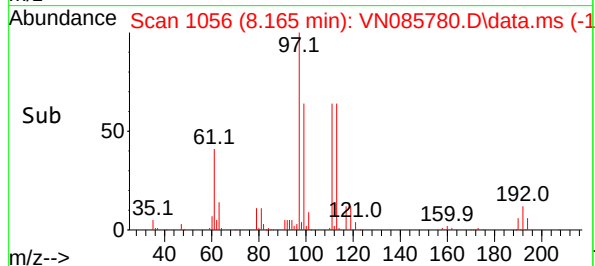
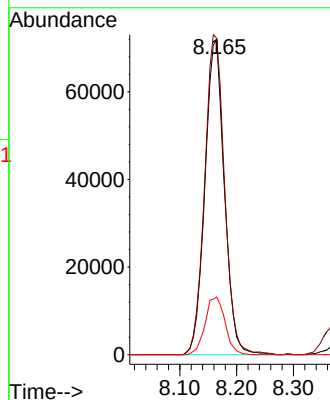
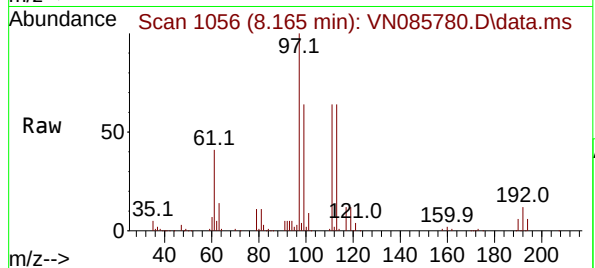
192 18.8 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#36

1,1-Dichloropropene

Concen: 46.581 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

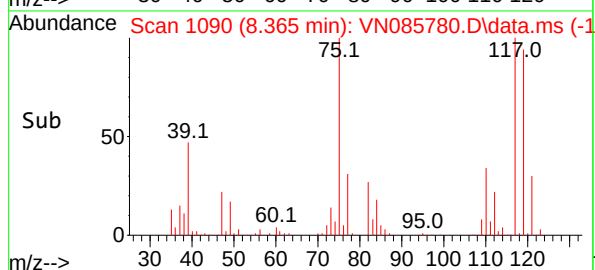
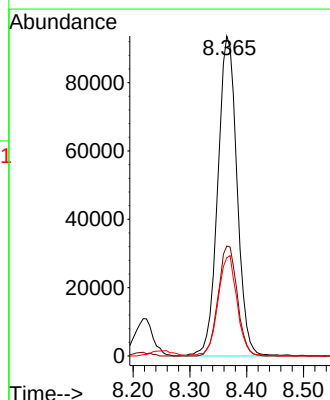
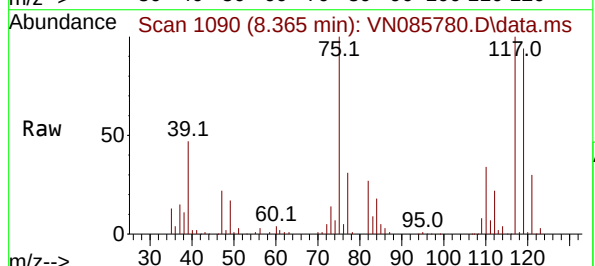
Tgt Ion: 75 Resp: 220335

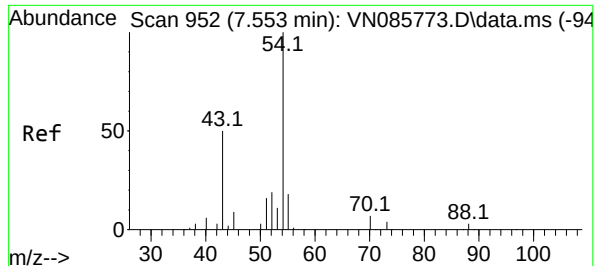
Ion Ratio Lower Upper

75 100

110 34.2 17.3 52.0

77 31.1 24.6 37.0





#37

Ethyl Acetate

Concen: 46.779 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

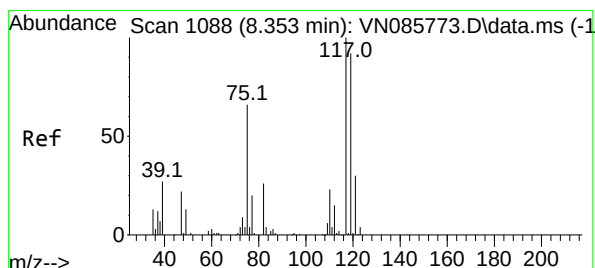
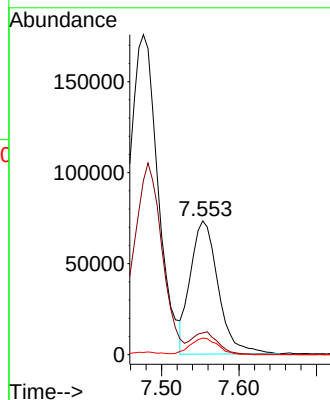
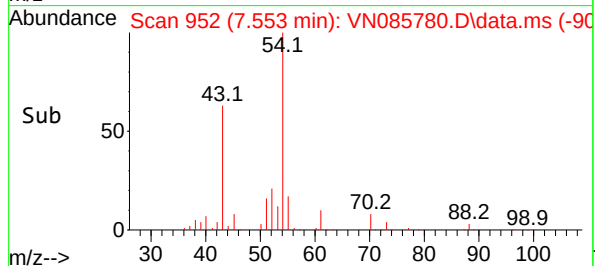
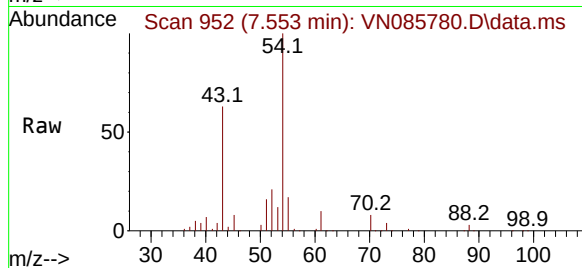
ICVNV021825

Tgt Ion:	43	Resp:	18209
Ion	Ratio	Lower	Upper
43	100		
61	15.5	12.2	18.2
70	12.5	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#38

Carbon Tetrachloride

Concen: 44.828 ug/l

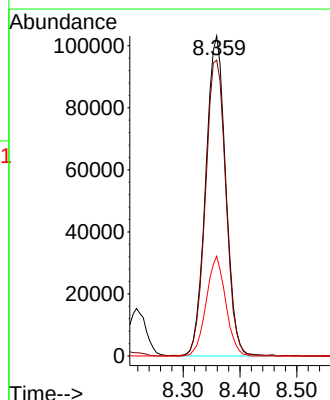
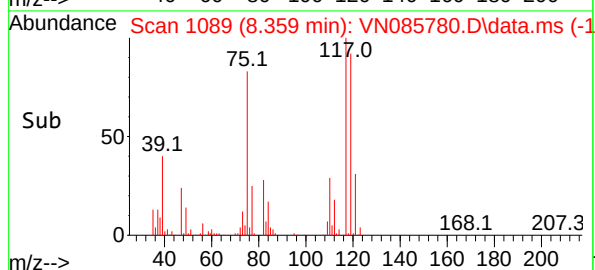
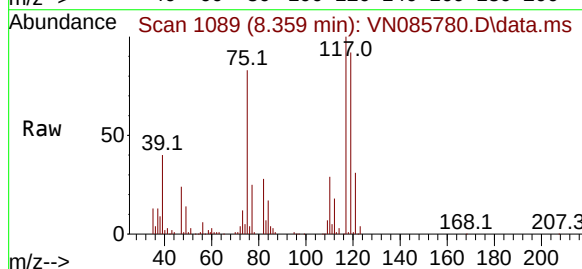
RT: 8.359 min Scan# 1089

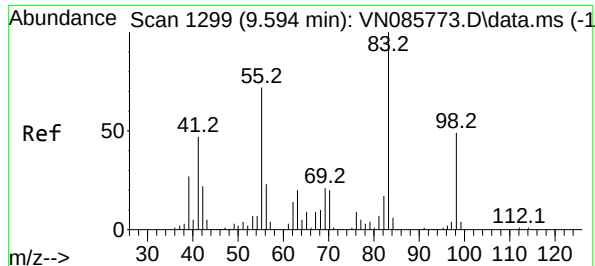
Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Tgt Ion:	117	Resp:	251949
Ion	Ratio	Lower	Upper
117	100		
119	92.5	73.8	110.6
121	31.1	24.3	36.5





#39

Methylcyclohexane

Concen: 49.612 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

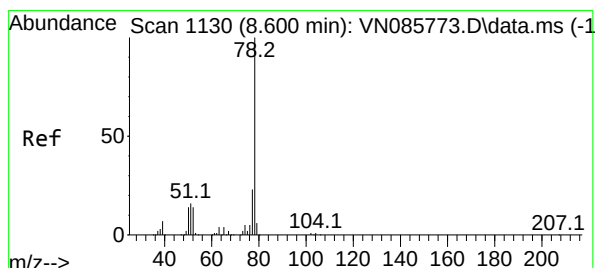
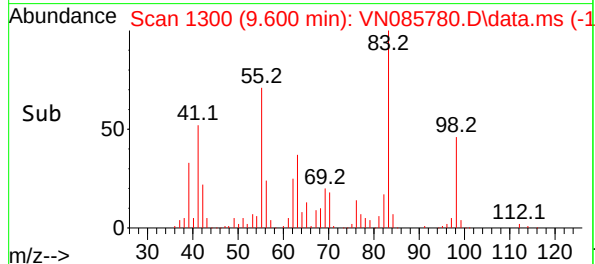
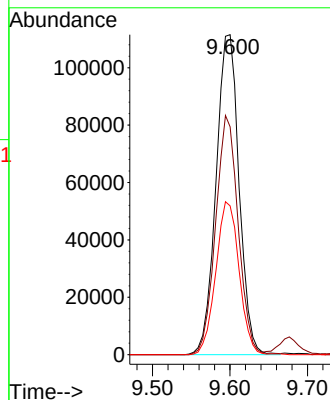
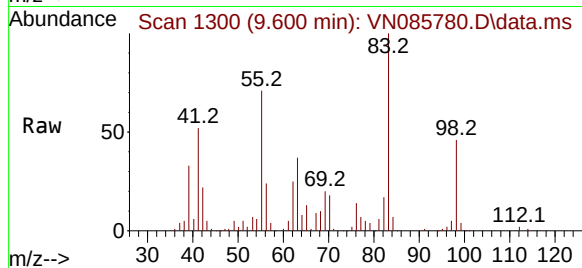
ICVVN021825

Tgt Ion:	83	Resp:	23054
Ion	Ratio	Lower	Upper
83	100		
55	71.2	57.5	86.3
98	46.5	39.2	58.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#40

Benzene

Concen: 45.016 ug/l

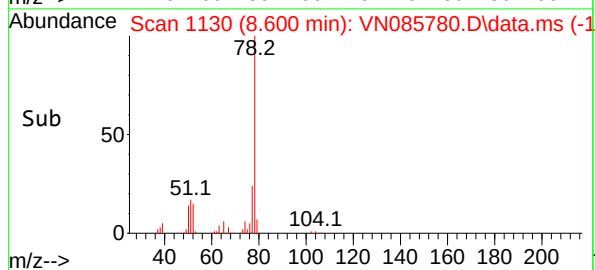
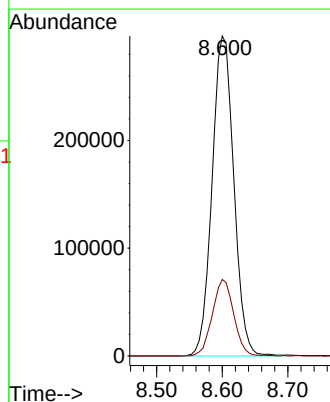
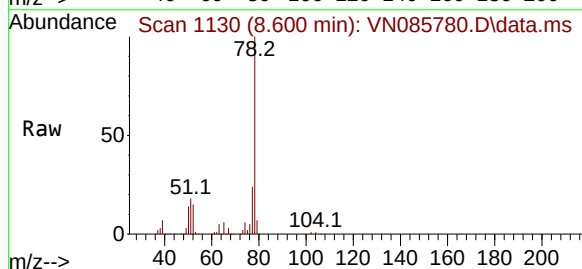
RT: 8.600 min Scan# 1130

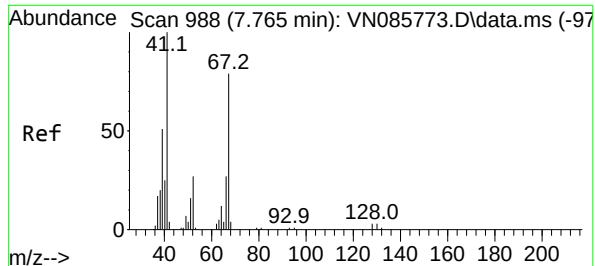
Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

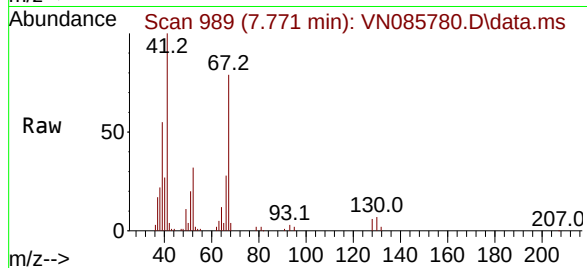
Tgt Ion:	78	Resp:	682453
Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.3	27.5





#41
Methacrylonitrile
Concen: 50.597 ug/l
RT: 7.771 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

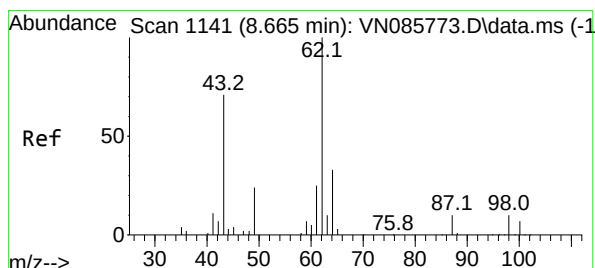
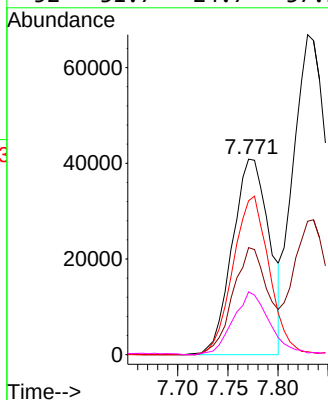
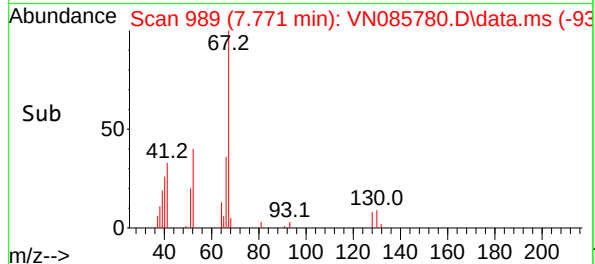
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



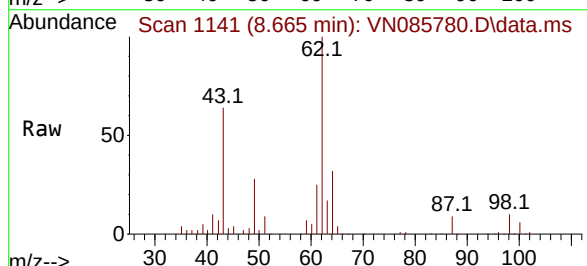
Tgt Ion: 41 Resp: 10528
Ion Ratio Lower Upper
41 100
39 52.3 42.0 63.0
67 79.2 64.2 96.4
52 31.7 24.7 37.1

Manual Integrations
APPROVED

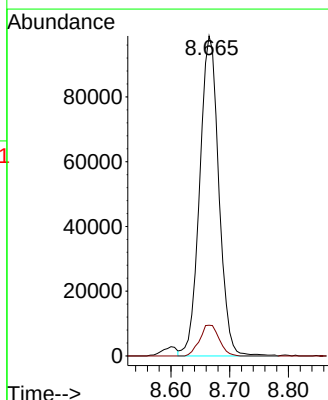
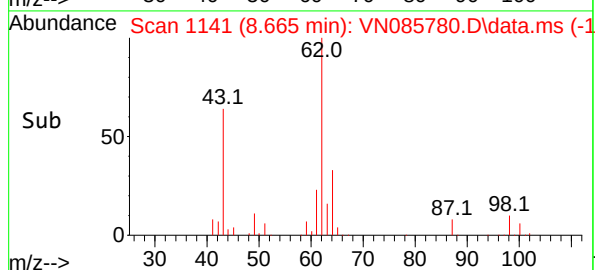
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

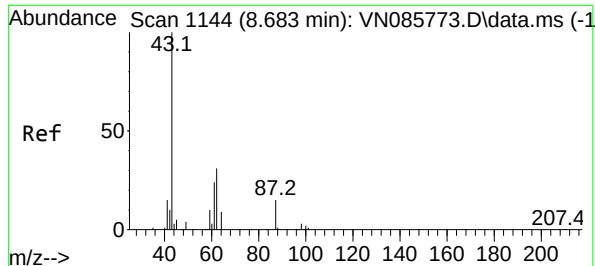


#42
1,2-Dichloroethane
Concen: 45.321 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28



Tgt Ion: 62 Resp: 223798
Ion Ratio Lower Upper
62 100
98 9.8 0.0 19.6





#43

Isopropyl Acetate

Concen: 46.374 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN085780.D

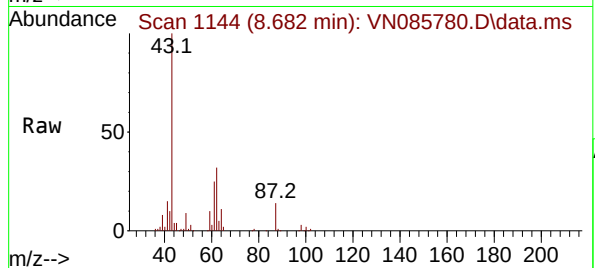
Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825



Tgt Ion: 43 Resp: 317074

Ion Ratio Lower Upper

43 100

61 29.1 22.6 34.0

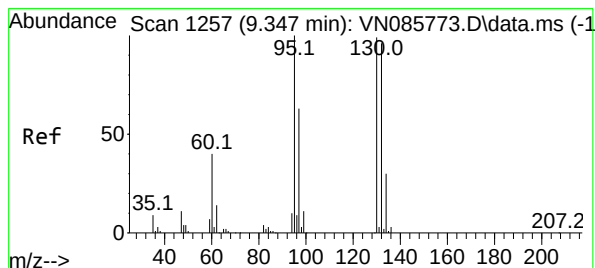
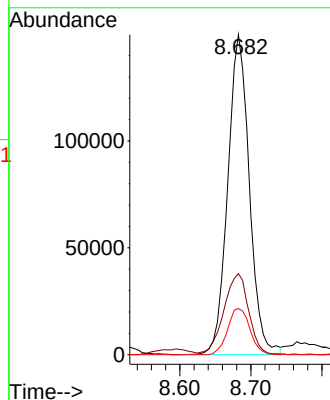
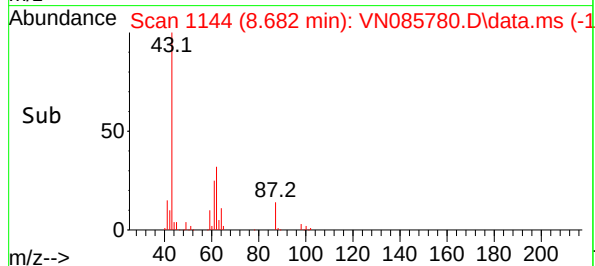
87 14.9 11.8 17.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#44

Trichloroethene

Concen: 43.368 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085780.D

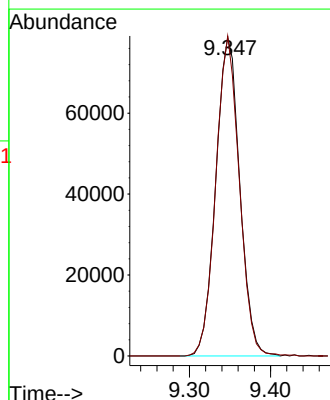
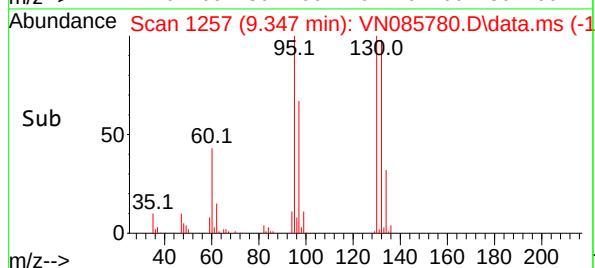
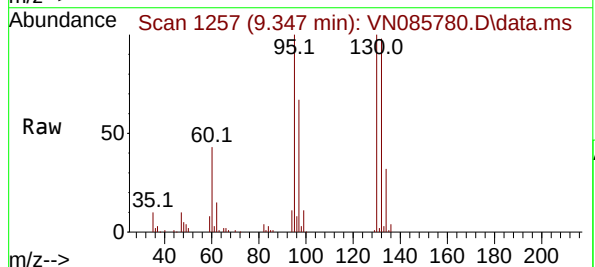
Acq: 18 Feb 2025 16:28

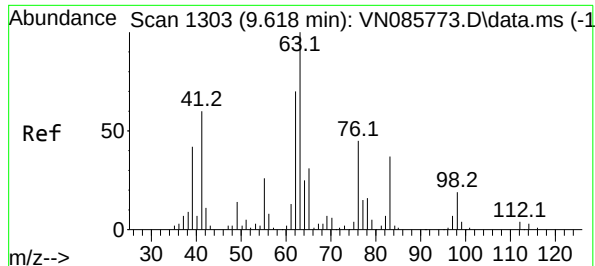
Tgt Ion:130 Resp: 161430

Ion Ratio Lower Upper

130 100

95 100.5 0.0 202.6





#45

1,2-Dichloropropane

Concen: 45.194 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 63 Resp: 16538

Ion Ratio Lower Upper

63 100

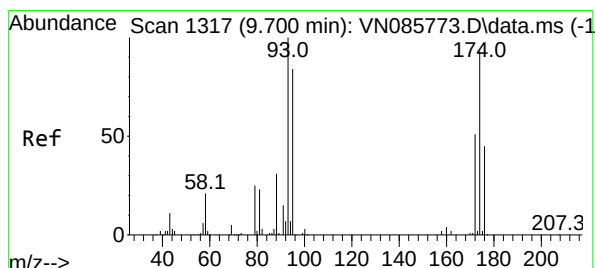
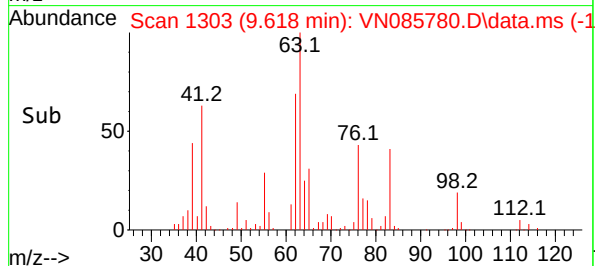
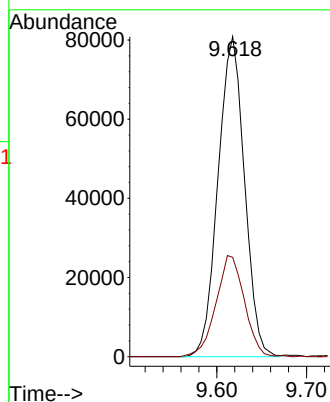
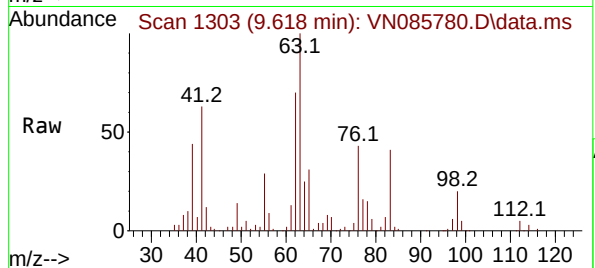
65 31.1 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#46

Dibromomethane

Concen: 45.867 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

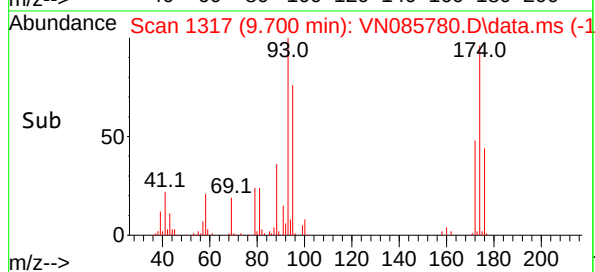
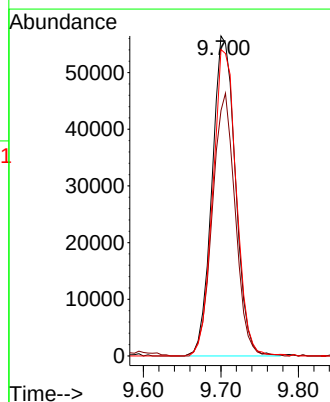
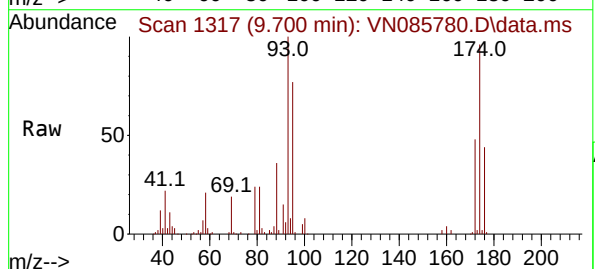
Tgt Ion: 93 Resp: 118394

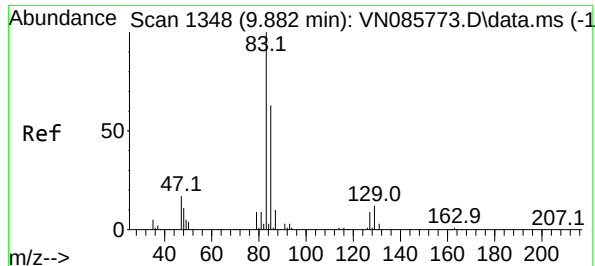
Ion Ratio Lower Upper

93 100

95 80.3 66.7 100.1

174 96.1 77.2 115.8





#47

Bromodichloromethane

Concen: 44.443 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

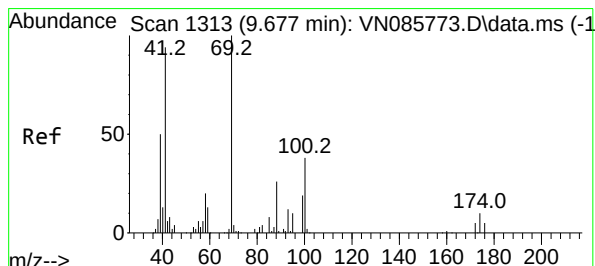
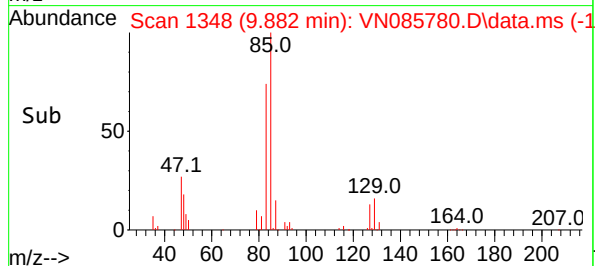
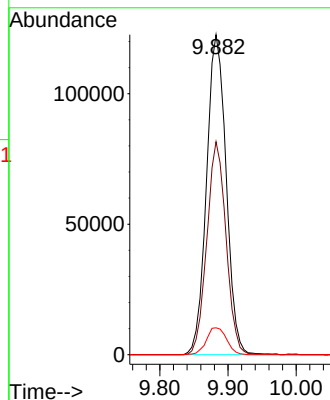
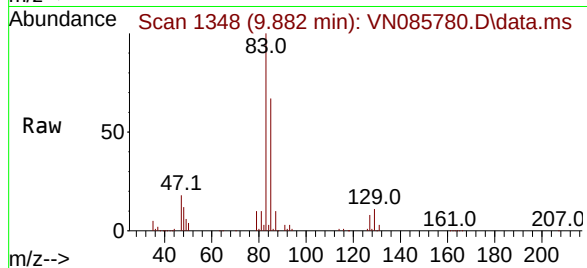
ICVVN021825

Tgt Ion:	83	Resp:	24543
Ion	Ratio	Lower	Upper
83	100		
85	66.5	50.5	75.7
127	8.4	7.2	10.8

Manual Integrations
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Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#48

Methyl methacrylate

Concen: 51.566 ug/l

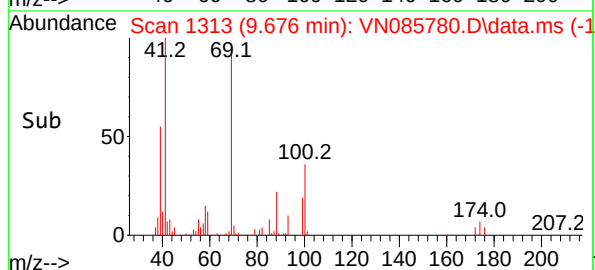
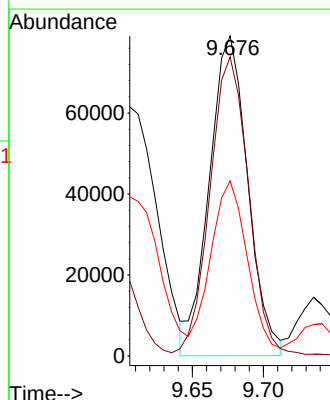
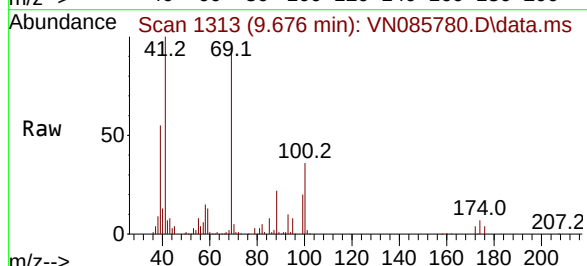
RT: 9.676 min Scan# 1313

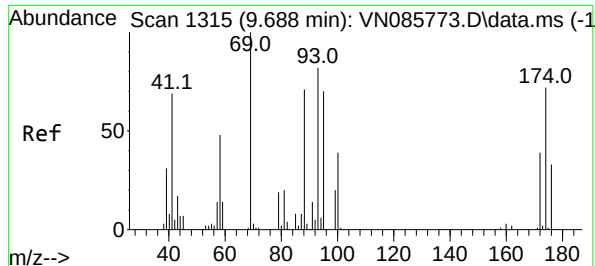
Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Tgt Ion:	41	Resp:	149072
Ion	Ratio	Lower	Upper
41	100		
69	93.7	76.0	114.0
39	53.0	42.3	63.5





#49

1,4-Dioxane

Concen: 1010.103 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 88 Resp: 55529

Ion Ratio Lower Upper

88 100

43 26.0 18.6 27.8

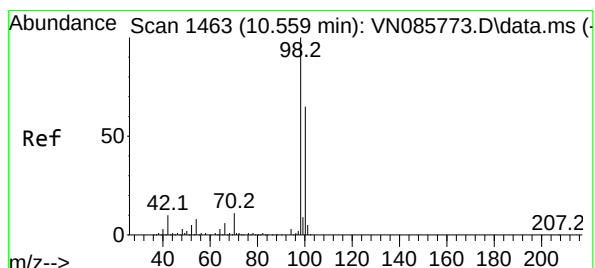
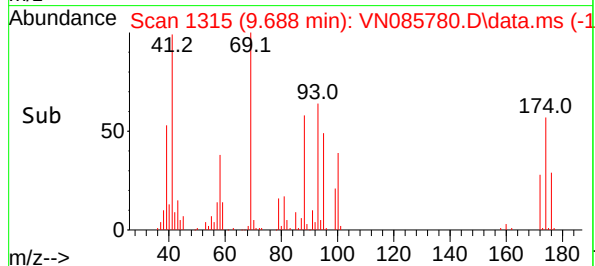
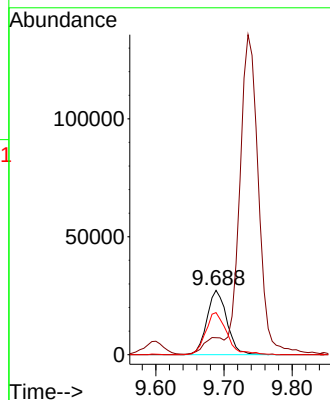
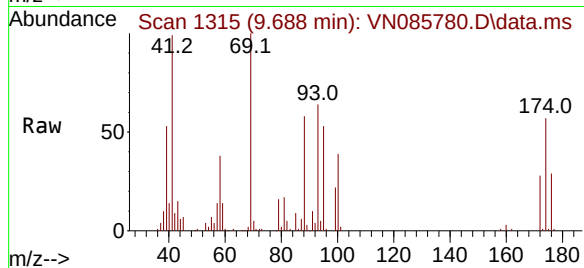
58 70.1 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#50

Toluene-d8

Concen: 53.575 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. -0.000 min

Lab File: VN085780.D

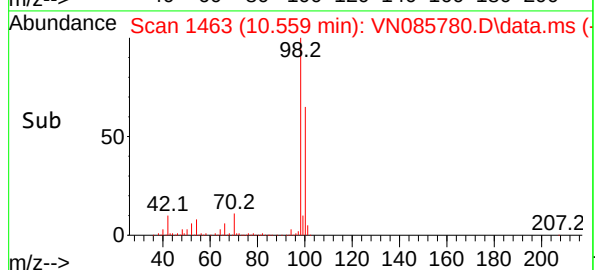
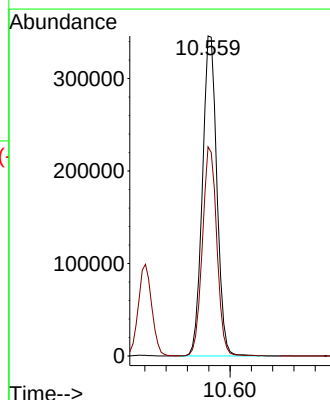
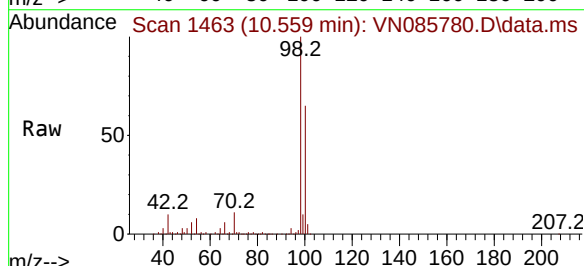
Acq: 18 Feb 2025 16:28

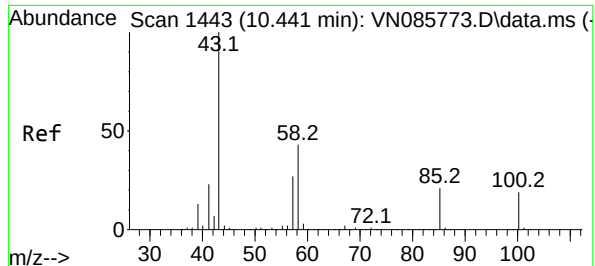
Tgt Ion: 98 Resp: 651463

Ion Ratio Lower Upper

98 100

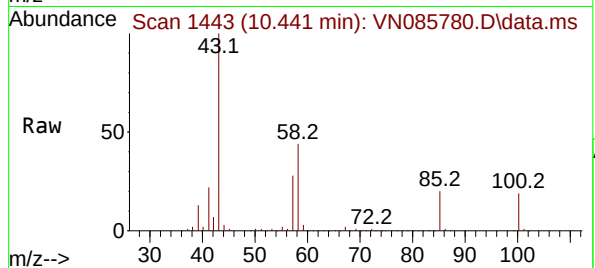
100 65.2 52.1 78.1





#51
4-Methyl-2-Pentanone
Concen: 254.433 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

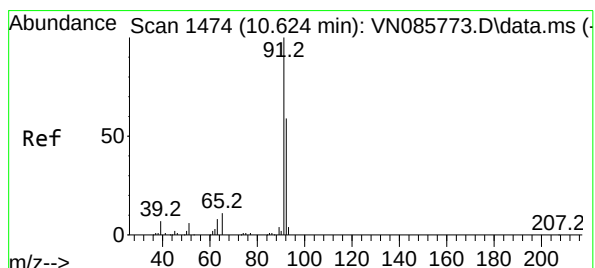
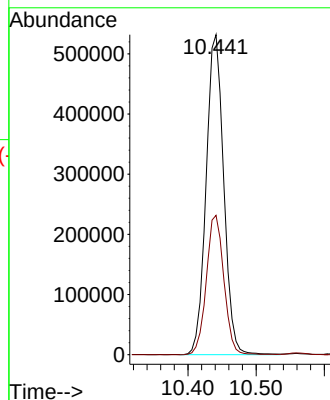
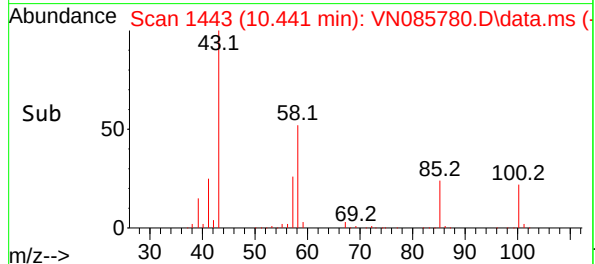
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 43 Resp: 95488
Ion Ratio Lower Upper
43 100
58 43.4 34.6 52.0

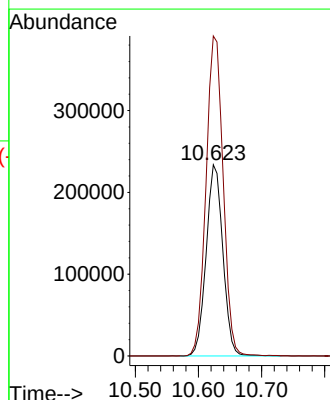
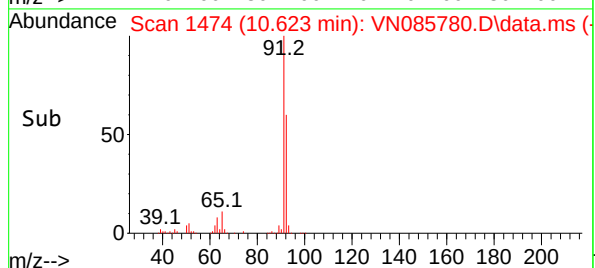
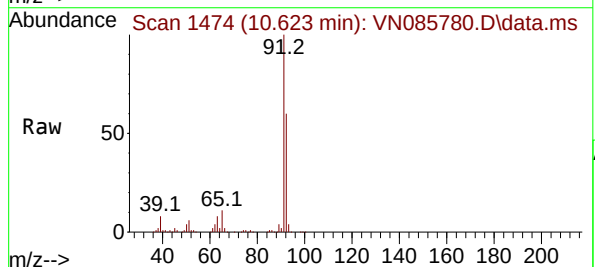
Manual Integrations
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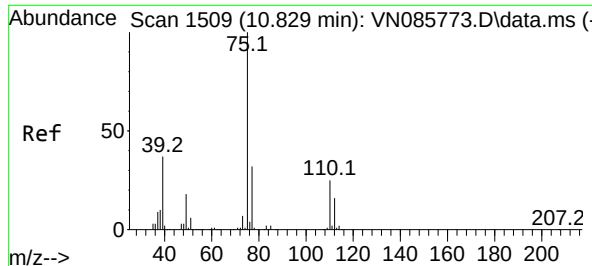
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#52
Toluene
Concen: 48.324 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

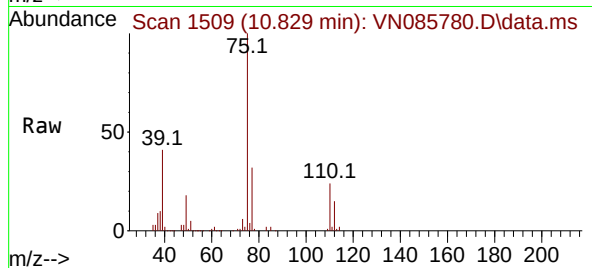
Tgt Ion: 92 Resp: 429445
Ion Ratio Lower Upper
92 100
91 171.4 136.9 205.3





#53
t-1,3-Dichloropropene
Concen: 48.873 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

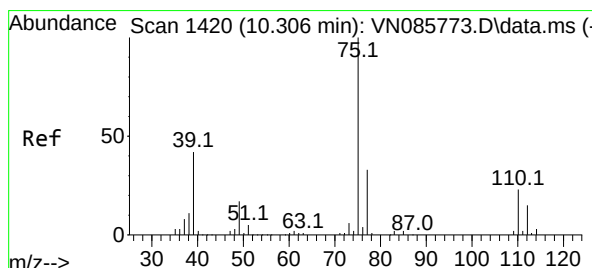
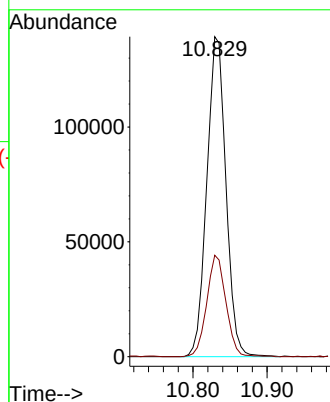
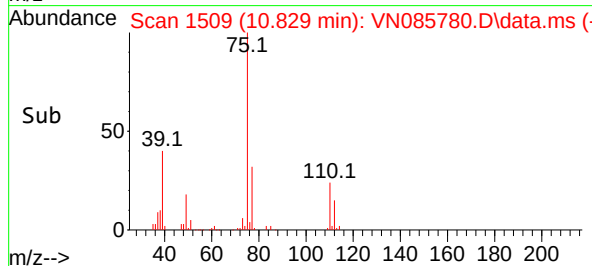
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 75 Resp: 249572
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.0

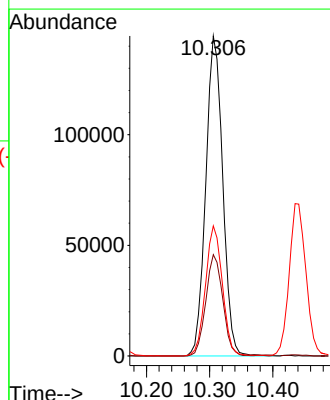
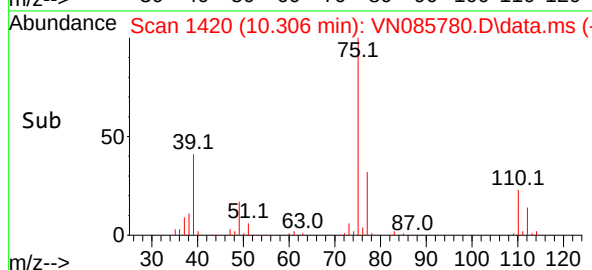
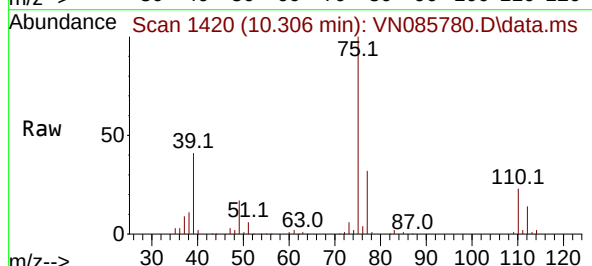
Manual Integrations
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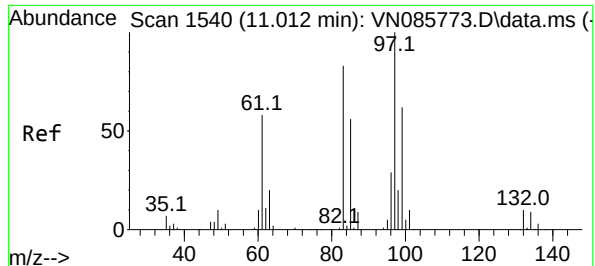
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#54
cis-1,3-Dichloropropene
Concen: 48.172 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

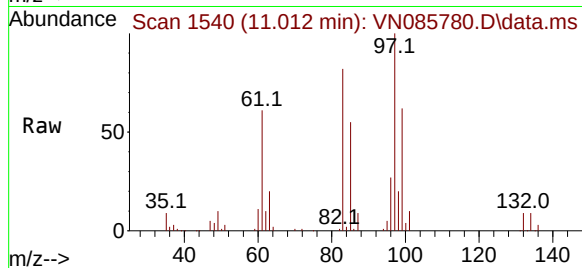
Tgt Ion: 75 Resp: 269744
Ion Ratio Lower Upper
75 100
77 31.6 26.1 39.1
39 40.7 33.4 50.0





#55
1,1,2-Trichloroethane
Concen: 45.289 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

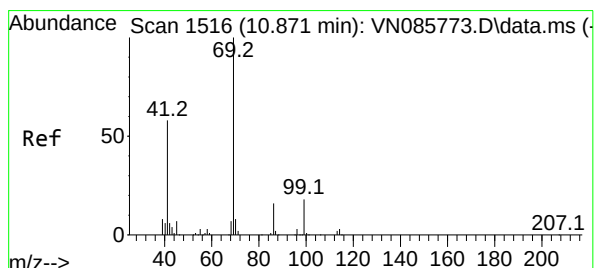
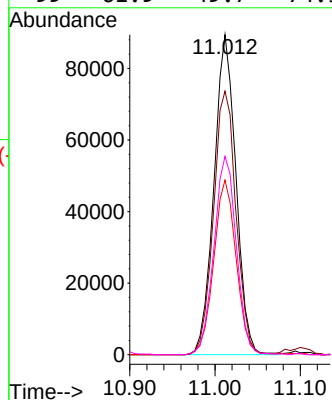
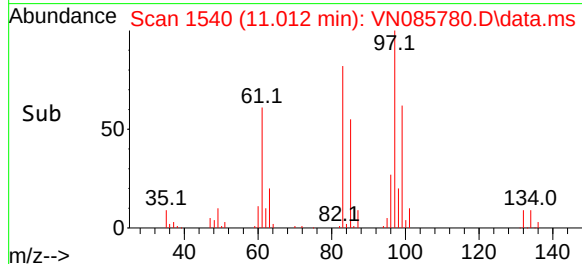
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



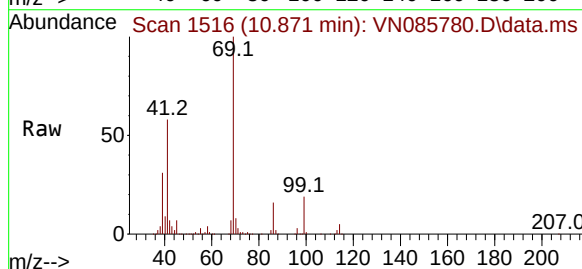
Tgt Ion: 97 Resp: 160020
Ion Ratio Lower Upper
97 100
83 82.4 66.1 99.1
85 54.5 44.7 67.1
99 61.9 49.7 74.5

Manual Integrations
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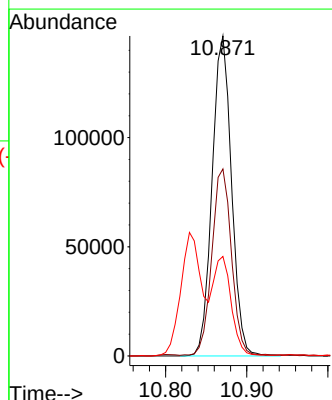
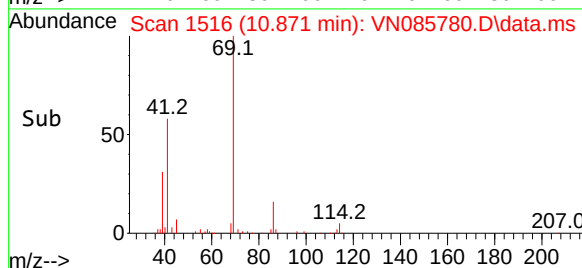
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

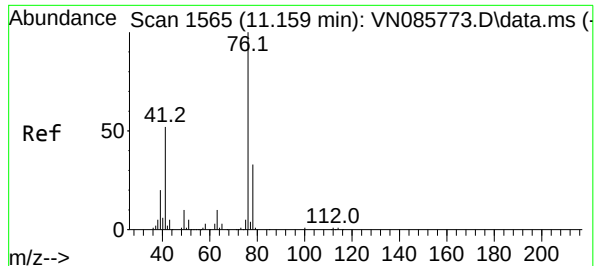


#56
Ethyl methacrylate
Concen: 48.142 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28



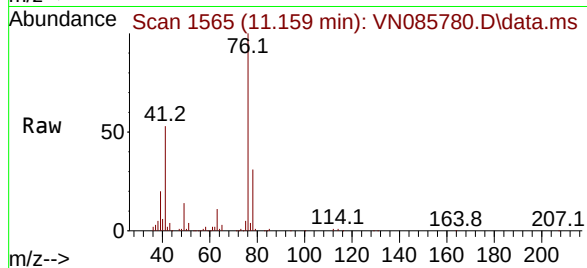
Tgt Ion: 69 Resp: 243449
Ion Ratio Lower Upper
69 100
41 58.6 46.0 69.0
39 28.2 22.0 33.0





#57
1,3-Dichloropropane
Concen: 46.254 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

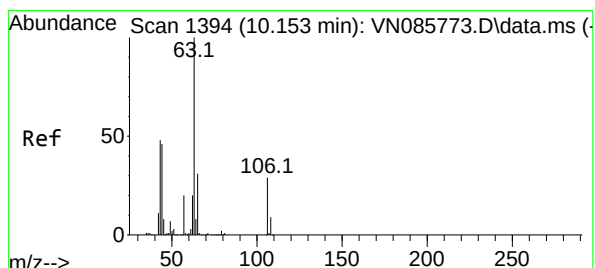
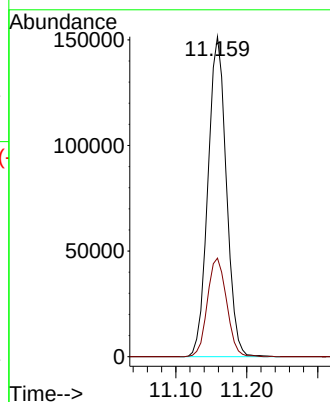
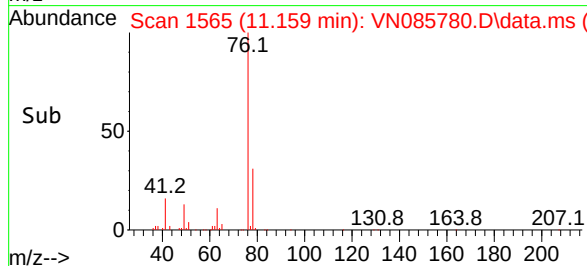
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 76 Resp: 27281
Ion Ratio Lower Upper
76 100
78 32.1 25.9 38.9

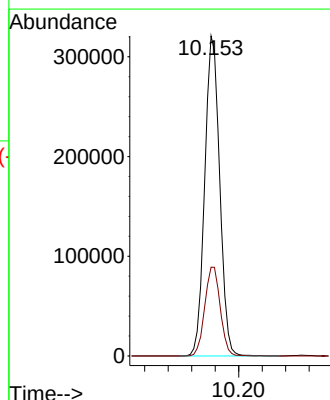
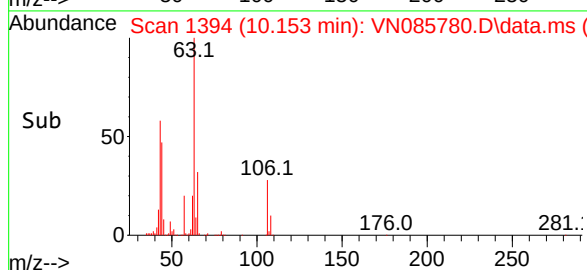
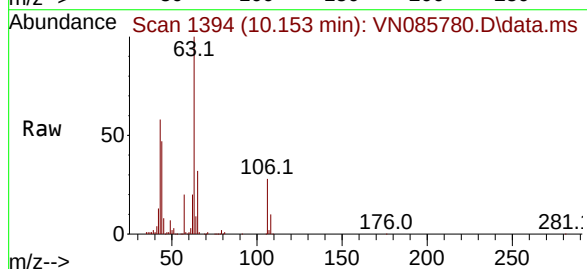
Manual Integrations
APPROVED

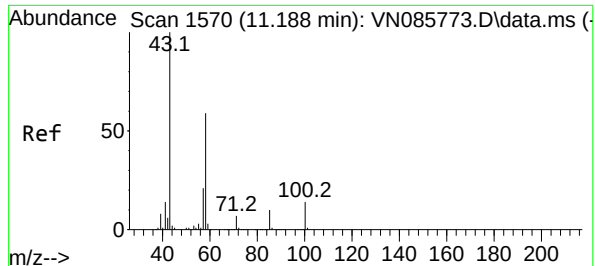
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#58
2-Chloroethyl Vinyl ether
Concen: 276.203 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 63 Resp: 565673
Ion Ratio Lower Upper
63 100
106 28.7 22.7 34.1





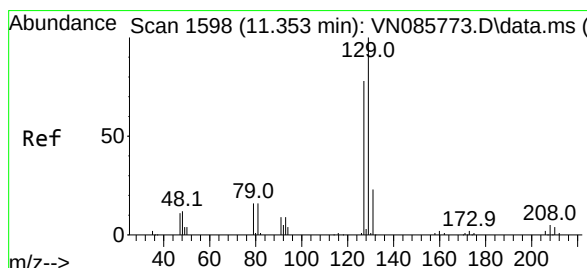
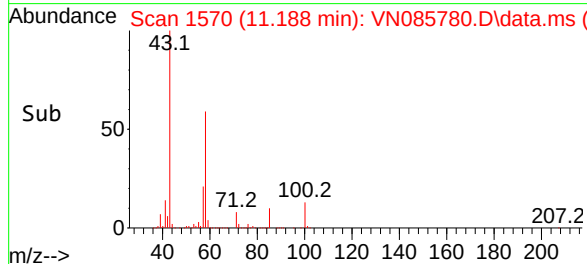
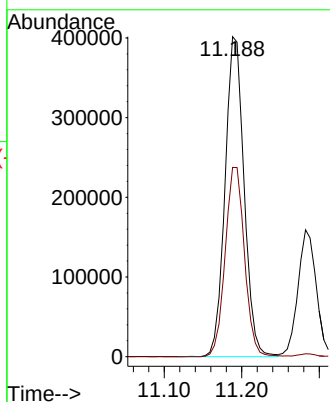
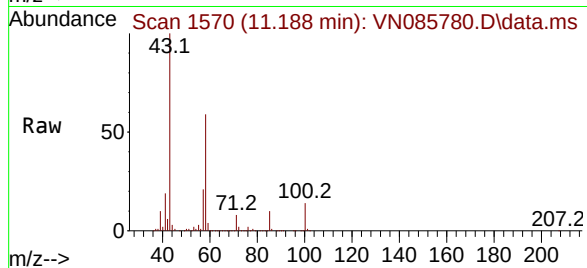
#59
2-Hexanone
Concen: 266.284 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Tgt Ion: 43 Resp: 68750
Ion Ratio Lower Upper
43 100
58 60.0 29.8 89.5

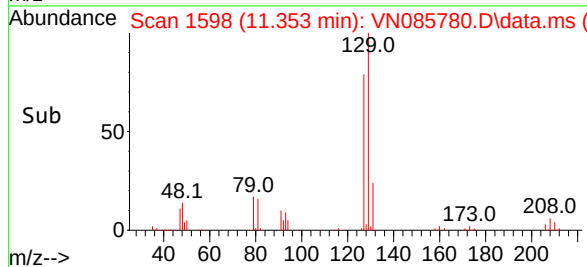
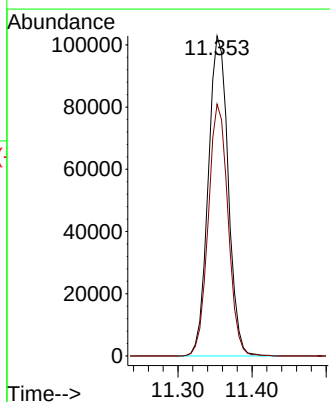
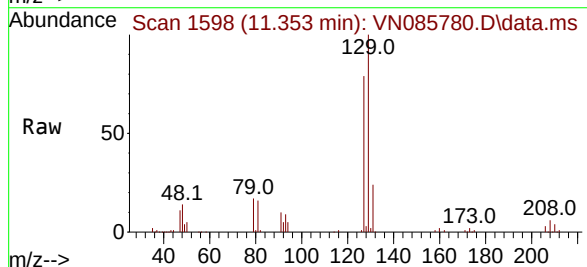
Manual Integrations
APPROVED

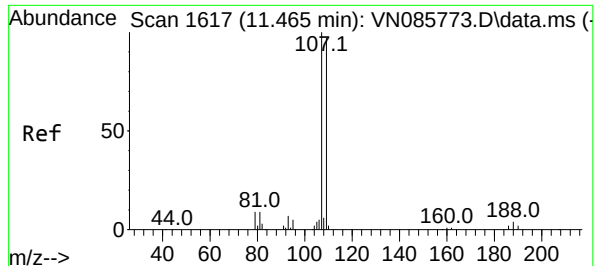
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#60
Dibromochloromethane
Concen: 46.707 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion:129 Resp: 192169
Ion Ratio Lower Upper
129 100
127 78.0 39.1 117.5





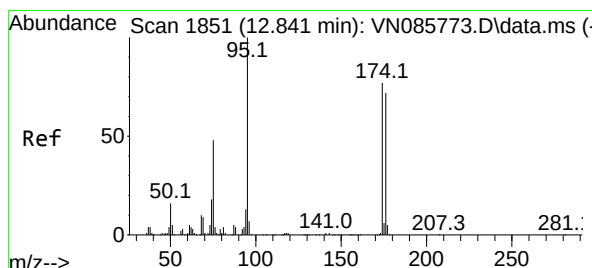
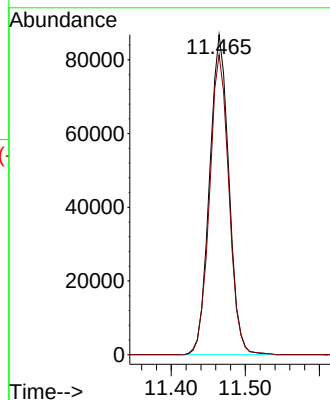
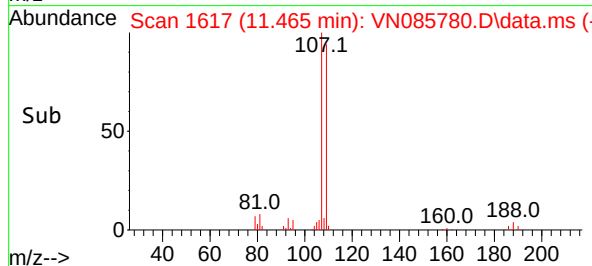
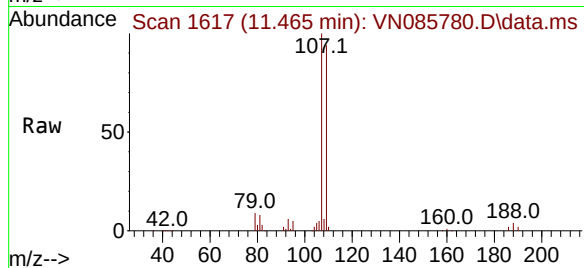
#61
1,2-Dibromoethane
Concen: 47.208 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Tgt Ion:107 Resp: 157602
Ion Ratio Lower Upper
107 100
109 93.7 76.0 114.0

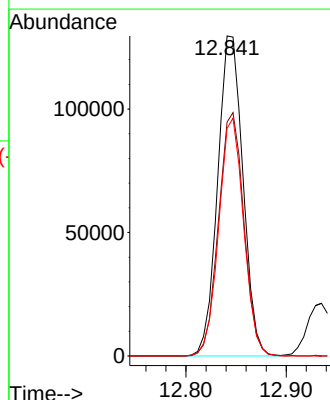
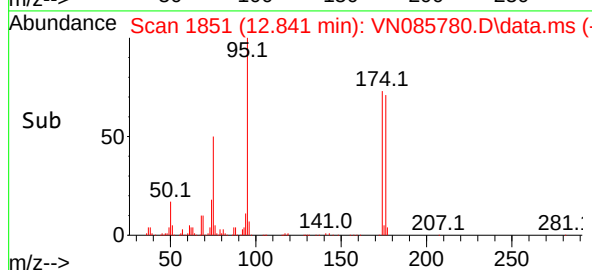
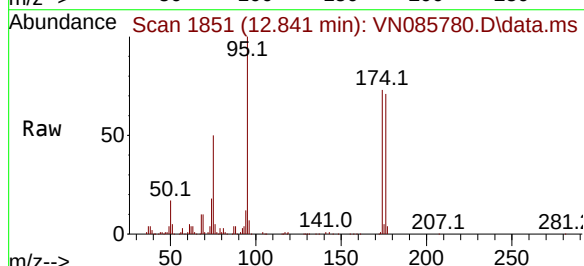
Manual Integrations
APPROVED

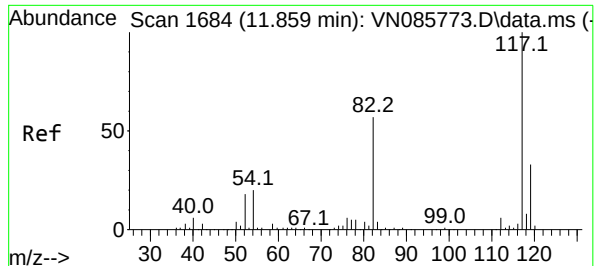
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#62
4-Bromofluorobenzene
Concen: 56.665 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

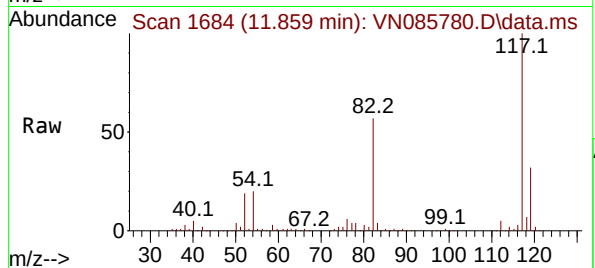
Tgt Ion: 95 Resp: 227023
Ion Ratio Lower Upper
95 100
174 76.1 0.0 152.4
176 73.1 0.0 146.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

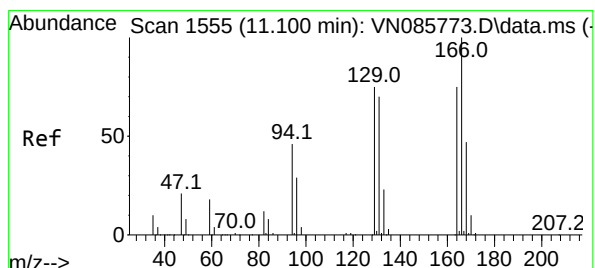
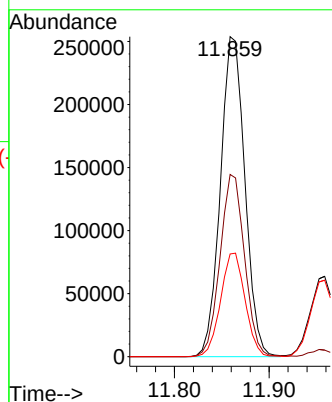
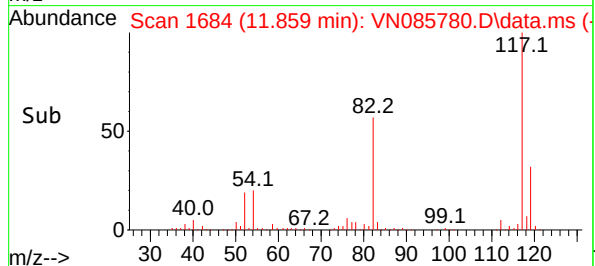
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion:117 Resp: 45648
Ion Ratio Lower Upper
117 100
82 56.9 45.7 68.5
119 32.1 26.2 39.2

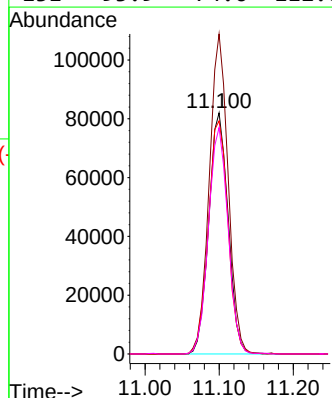
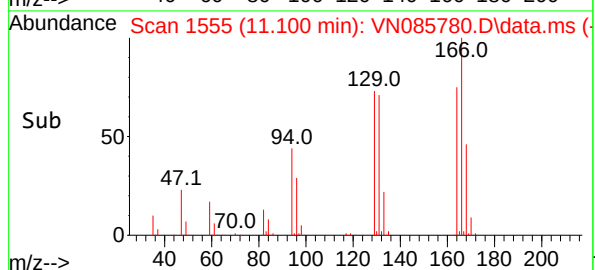
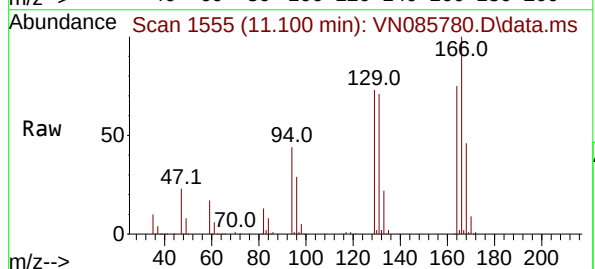
Manual Integrations
APPROVED

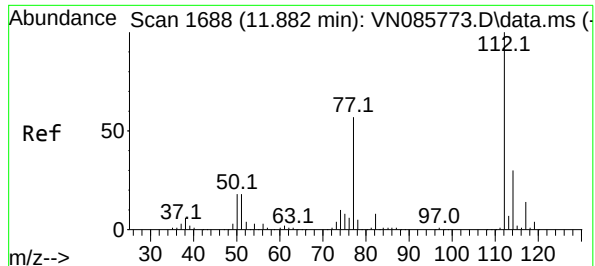
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#64
Tetrachloroethene
Concen: 42.088 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

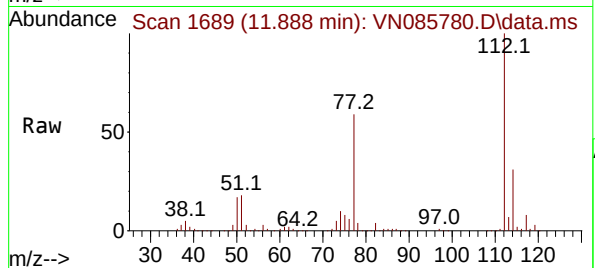
Tgt Ion:164 Resp: 148840
Ion Ratio Lower Upper
164 100
166 132.7 107.2 160.8
129 96.7 80.7 121.1
131 93.9 74.6 112.0





#65
Chlorobenzene
Concen: 44.422 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

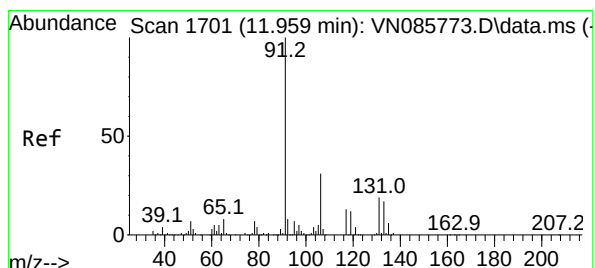
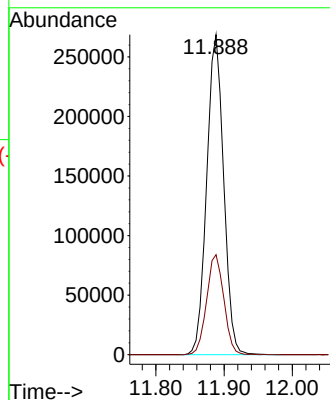
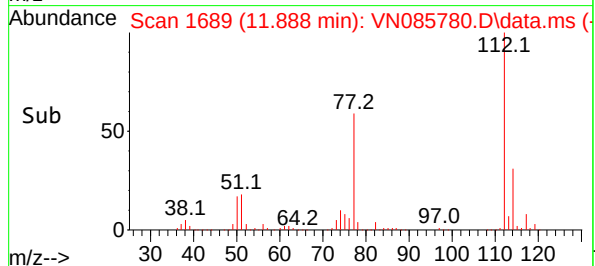
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN021825



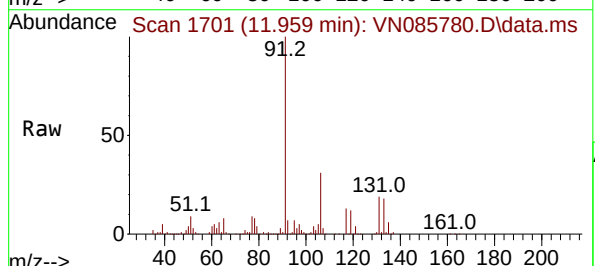
Tgt Ion:112 Resp: 46454
Ion Ratio Lower Upper
112 100
114 31.2 24.3 36.5

Manual Integrations
APPROVED

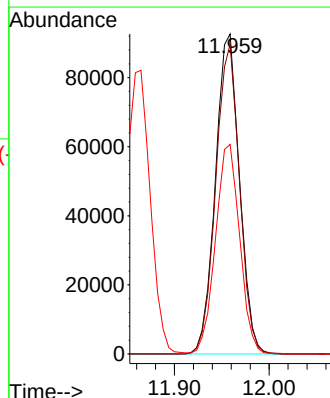
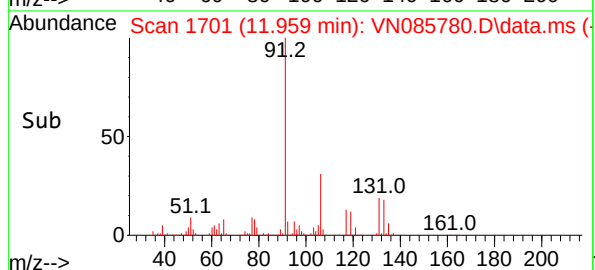
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

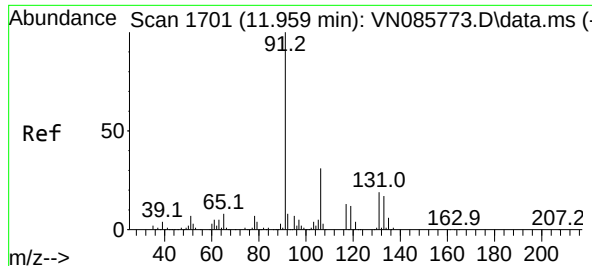


#66
1,1,1,2-Tetrachloroethane
Concen: 43.545 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28



Tgt Ion:131 Resp: 163676
Ion Ratio Lower Upper
131 100
133 95.5 47.7 143.1
119 65.9 33.3 99.8





#67

Ethyl Benzene

Concen: 48.655 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN021825

Tgt Ion: 91 Resp: 797025

Ion Ratio Lower Upper

91 100

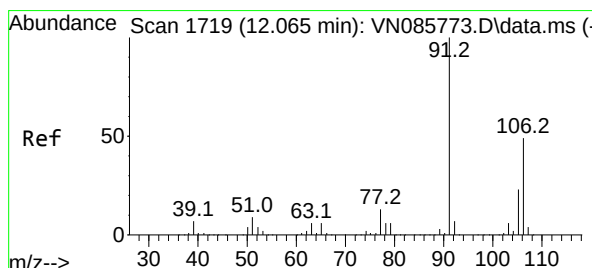
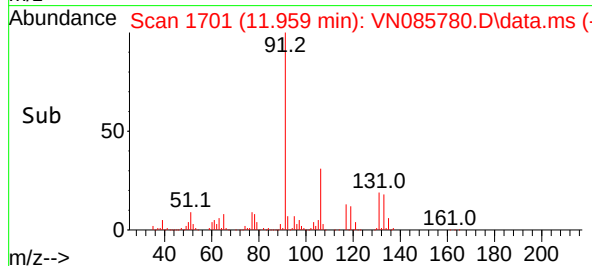
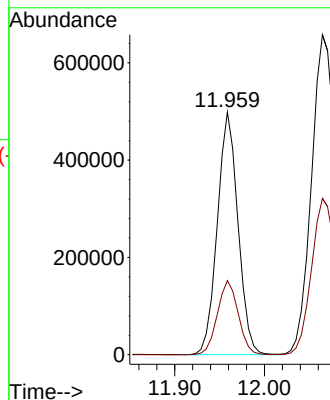
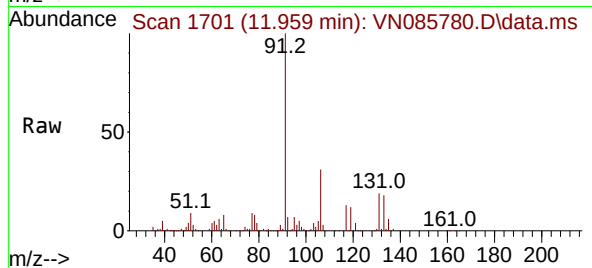
106 30.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#68

m/p-Xylenes

Concen: 99.562 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085780.D

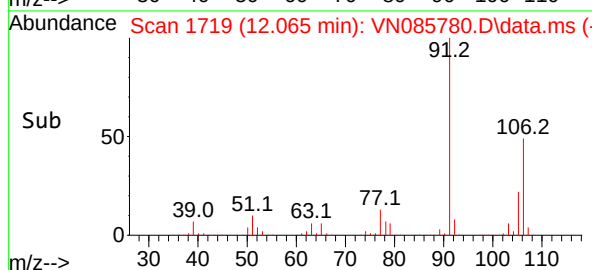
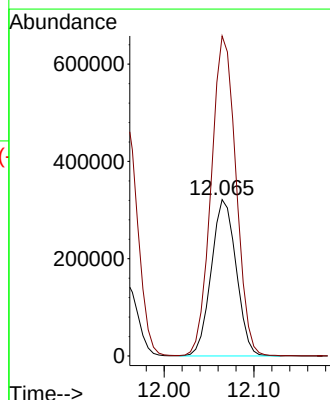
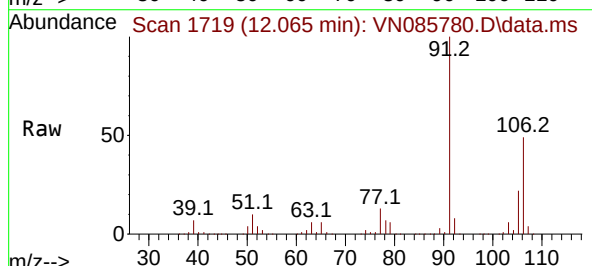
Acq: 18 Feb 2025 16:28

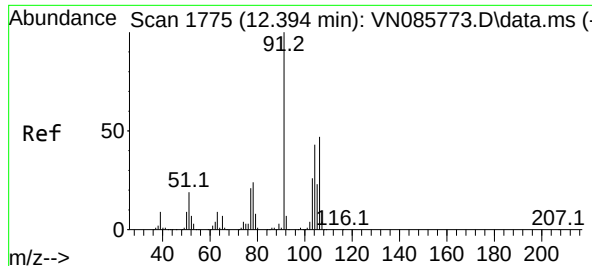
Tgt Ion:106 Resp: 619505

Ion Ratio Lower Upper

106 100

91 204.1 163.3 244.9





#69

o-Xylene

Concen: 49.837 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion:106 Resp: 294679

Ion Ratio Lower Upper

106 100

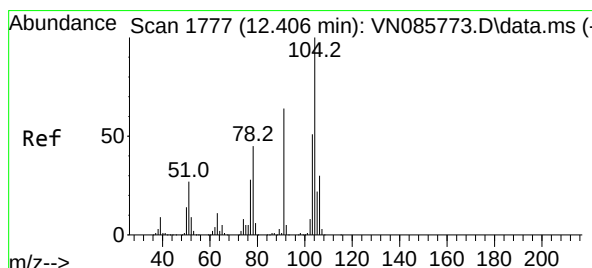
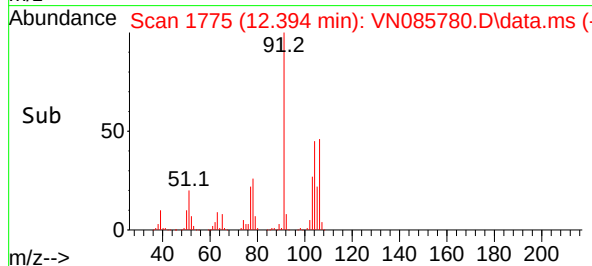
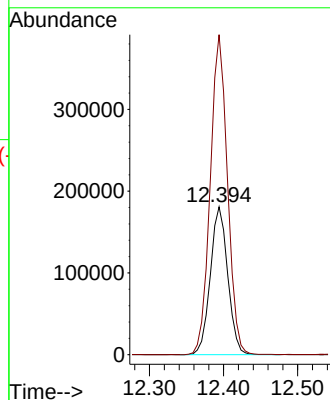
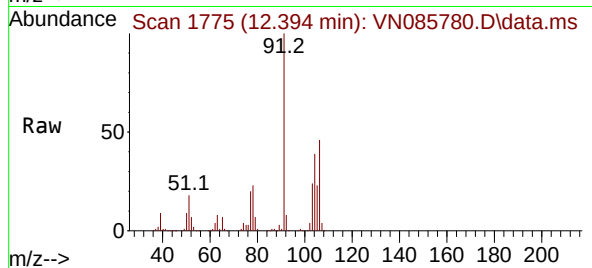
91 214.7 107.1 321.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#70

Styrene

Concen: 45.726 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

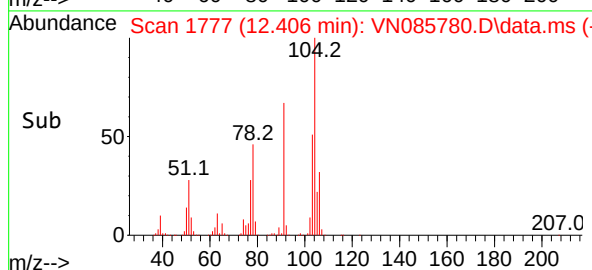
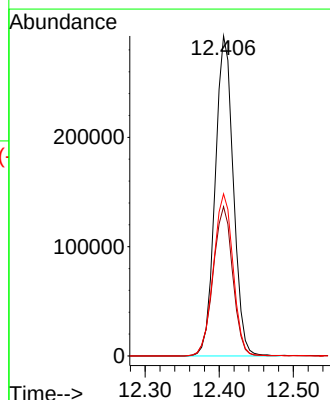
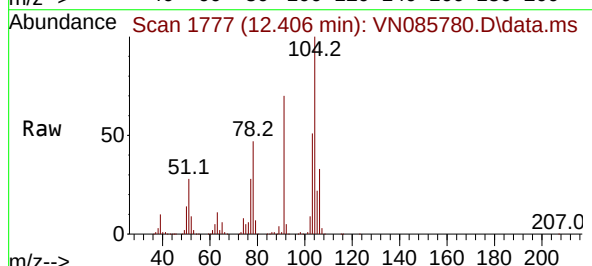
Tgt Ion:104 Resp: 498501

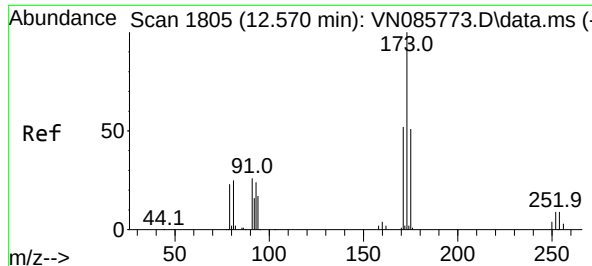
Ion Ratio Lower Upper

104 100

78 50.3 39.0 58.6

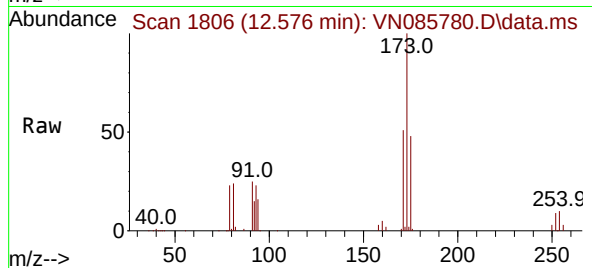
103 54.7 43.3 64.9





#71
Bromoform
Concen: 46.617 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

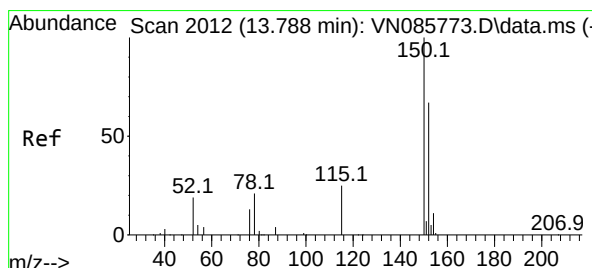
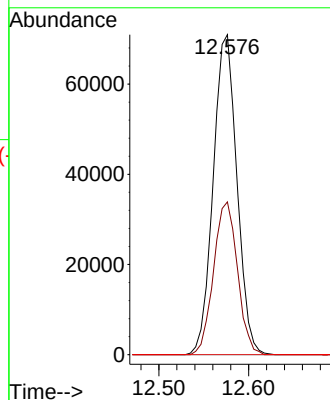
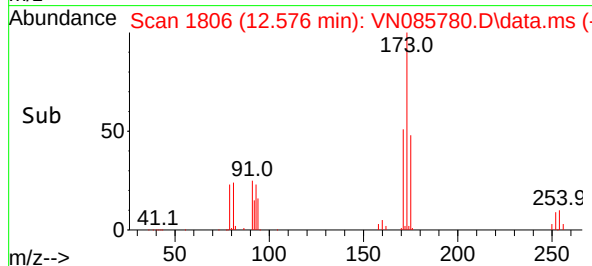
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



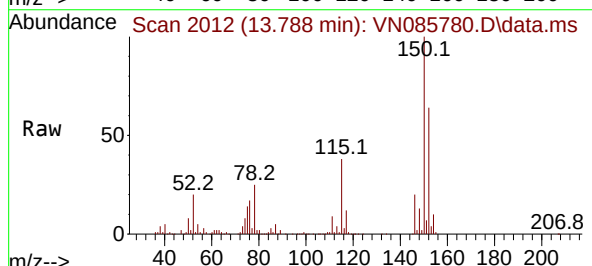
Tgt Ion:173 Resp: 13020
Ion Ratio Lower Upper
173 100
175 48.1 25.1 75.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

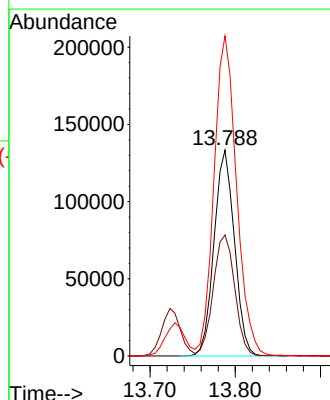
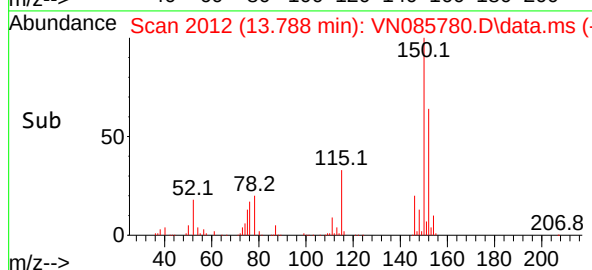
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

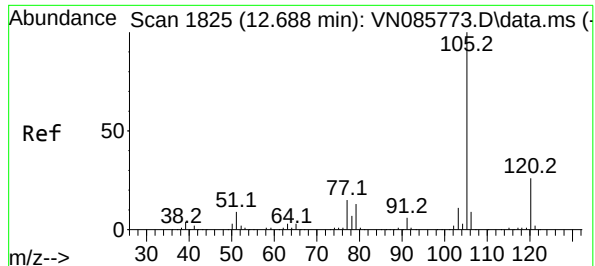


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28



Tgt Ion:152 Resp: 222696
Ion Ratio Lower Upper
152 100
115 61.4 30.4 91.3
150 171.4 0.0 345.4





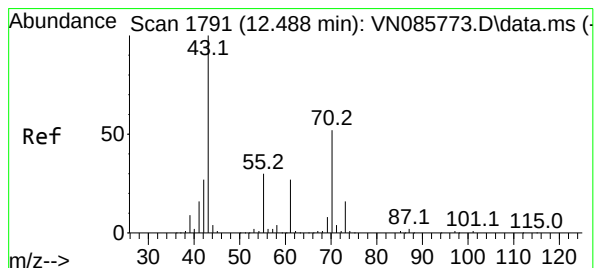
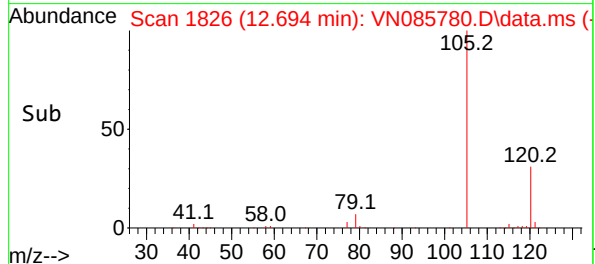
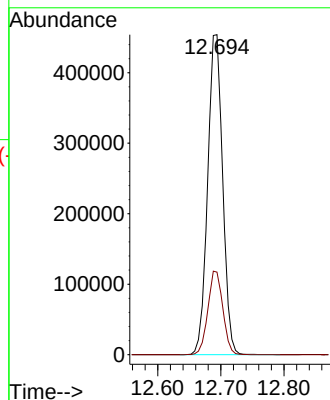
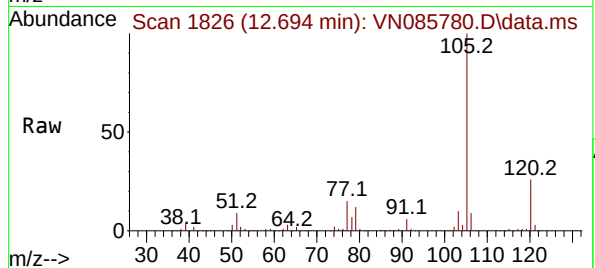
#73
Isopropylbenzene
Concen: 49.002 ug/l
RT: 12.694 min Scan# 1825
Delta R.T. 0.006 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVNVN021825

Tgt Ion:105 Resp: 747608
Ion Ratio Lower Upper
105 100
120 26.0 13.0 39.0

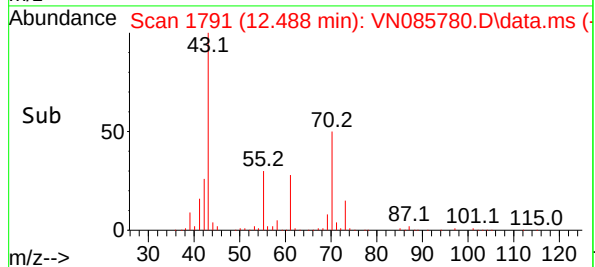
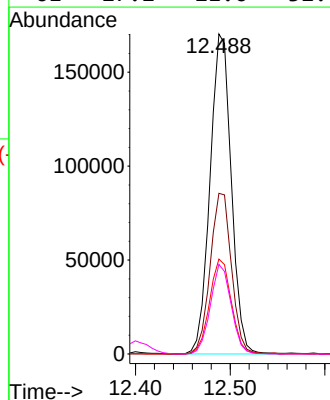
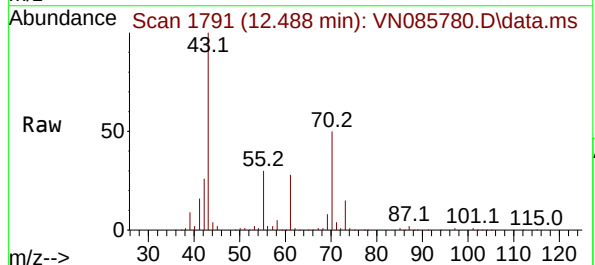
Manual Integrations
APPROVED

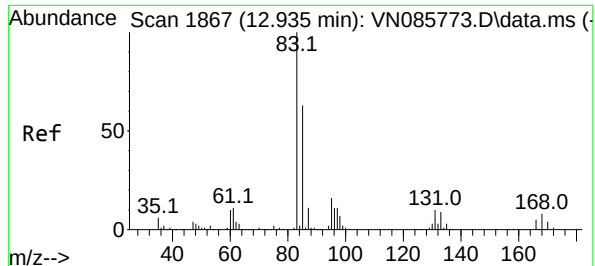
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#74
N-ethyl acetate
Concen: 49.401 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

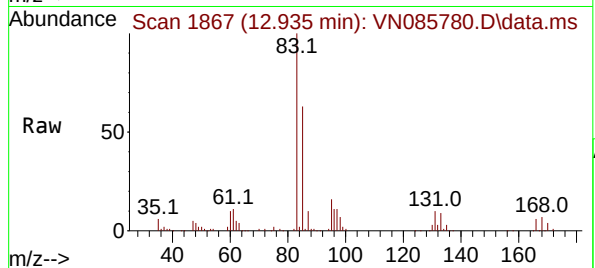
Tgt Ion: 43 Resp: 265786
Ion Ratio Lower Upper
43 100
70 50.4 41.0 61.4
55 30.4 24.6 36.8
61 27.2 21.6 32.4





#75
1,1,2,2-Tetrachloroethane
Concen: 43.005 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

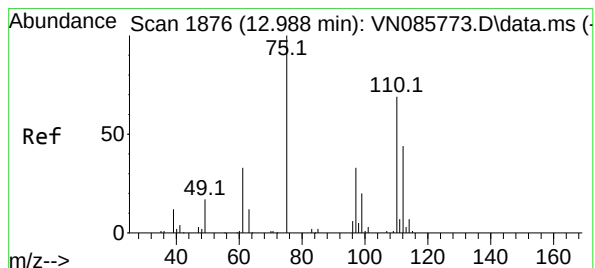
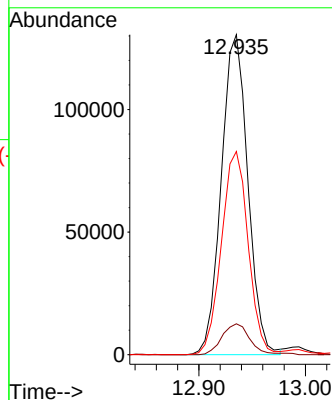
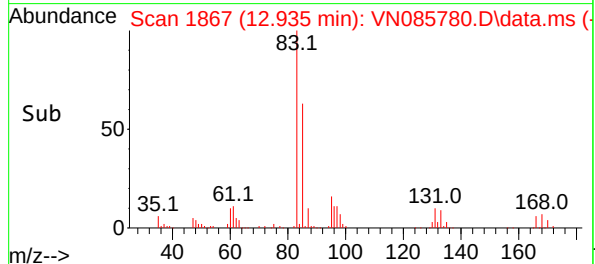
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion: 83 Resp: 225770
Ion Ratio Lower Upper
83 100
131 10.2 5.0 15.0
85 64.1 32.2 96.6

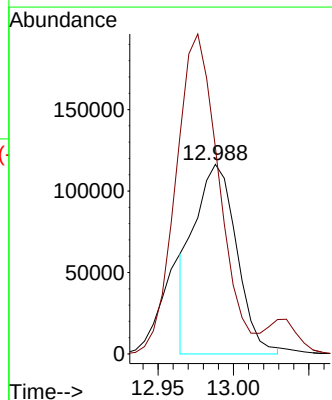
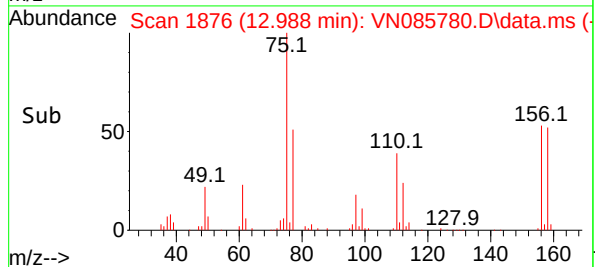
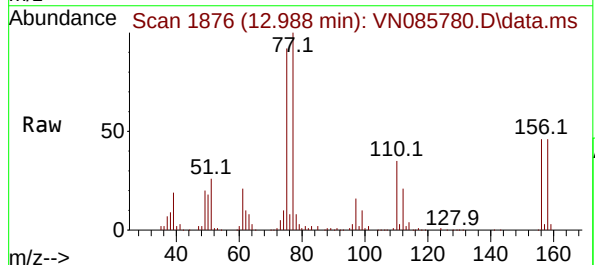
Manual Integrations
APPROVED

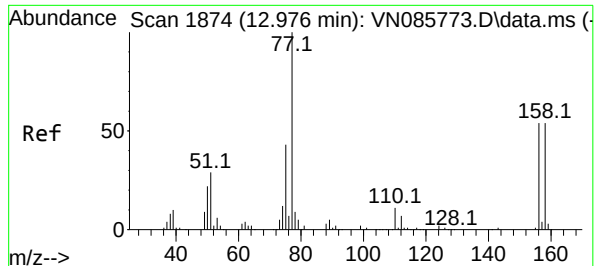
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#76
1,2,3-Trichloropropane
Concen: 46.070 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

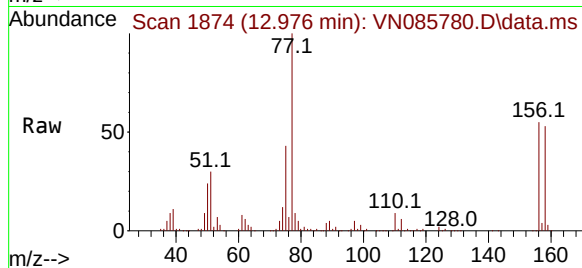
Tgt Ion: 75 Resp: 227901
Ion Ratio Lower Upper
75 100
77 173.0 100.0 300.0





#77
Bromobenzene
Concen: 45.084 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

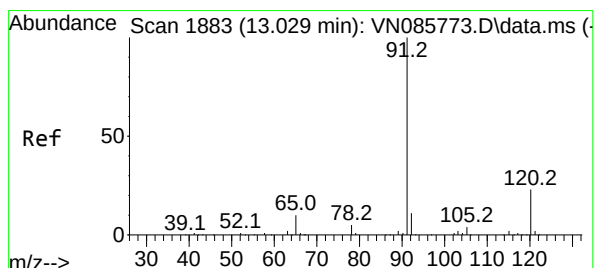
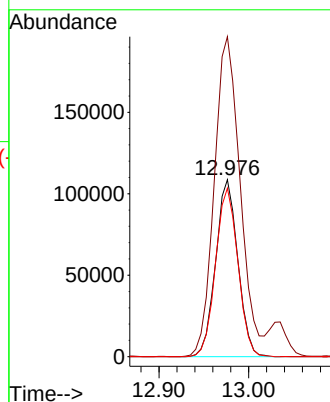
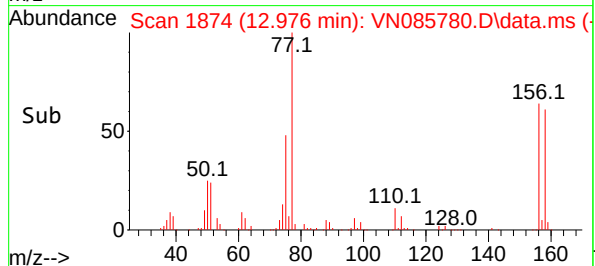
Instrument :
MSVOA_N
ClientSampleId :
ICVNV021825



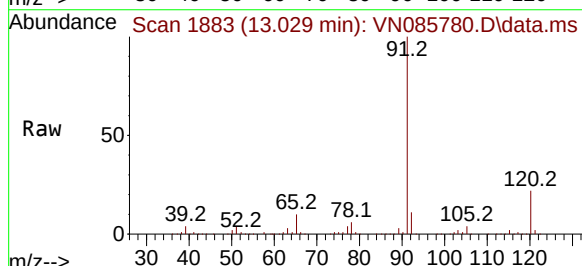
Tgt Ion:156 Resp: 18583
Ion Ratio Lower Upper
156 100
77 212.1 104.1 312.3
158 96.2 48.1 144.4

Manual Integrations
APPROVED

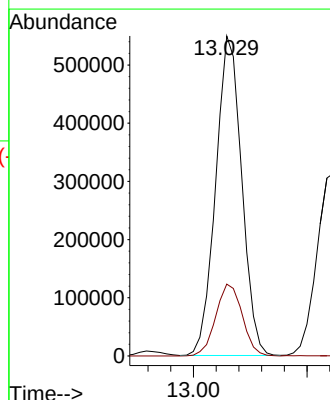
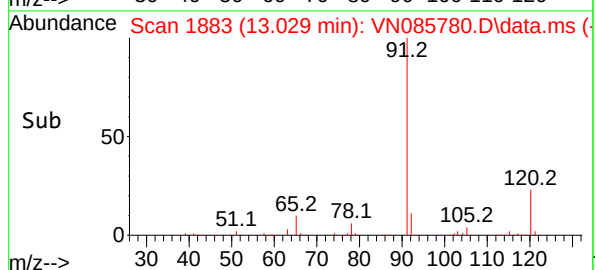
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

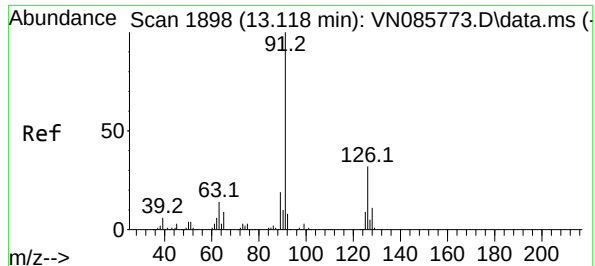


#78
n-propylbenzene
Concen: 49.927 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28



Tgt Ion: 91 Resp: 872362
Ion Ratio Lower Upper
91 100
120 22.9 11.3 33.8





#79

2-Chlorotoluene

Concen: 46.350 ug/l

RT: 13.123 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion: 91 Resp: 54110

Ion Ratio Lower Upper

91 100

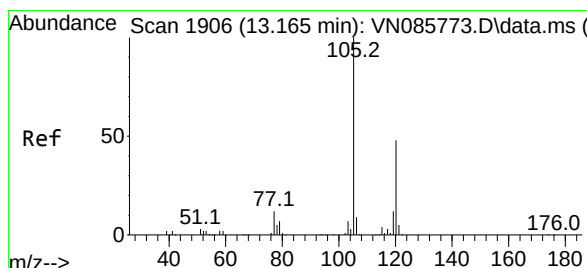
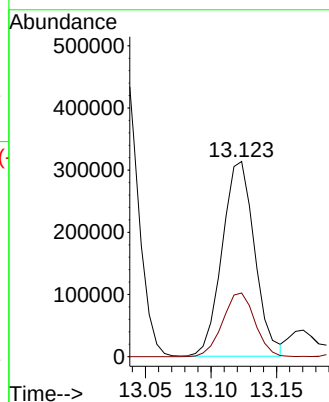
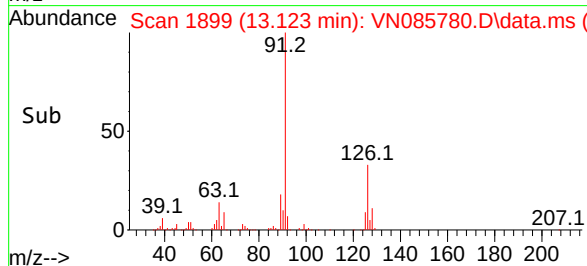
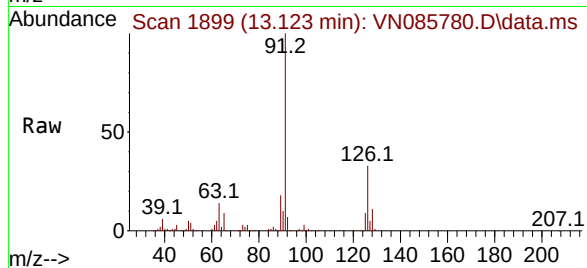
126 32.5 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.055 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085780.D

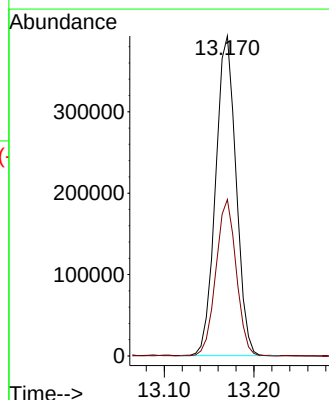
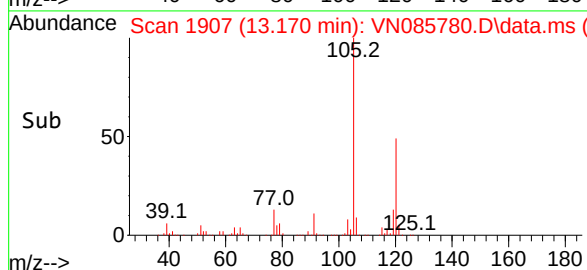
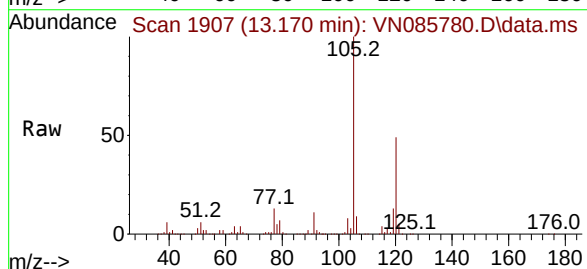
Acq: 18 Feb 2025 16:28

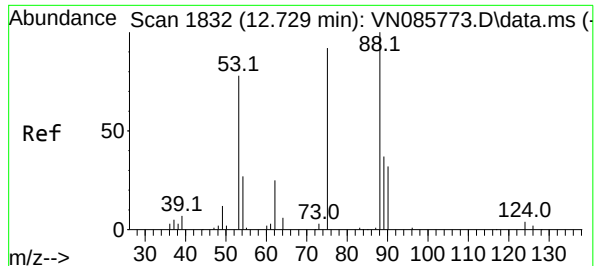
Tgt Ion:105 Resp: 622090

Ion Ratio Lower Upper

105 100

120 48.6 24.3 72.9





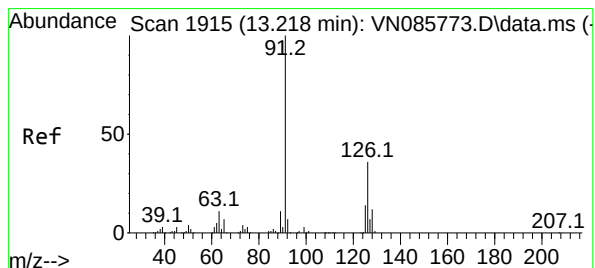
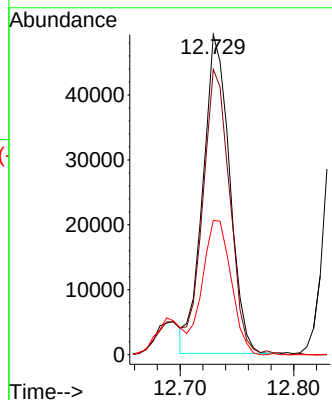
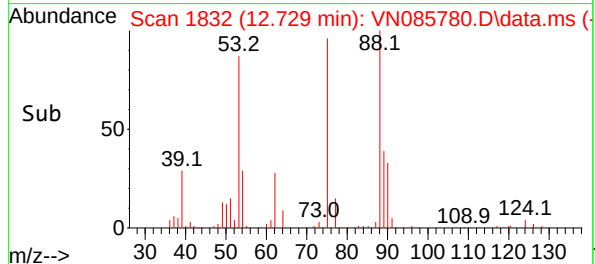
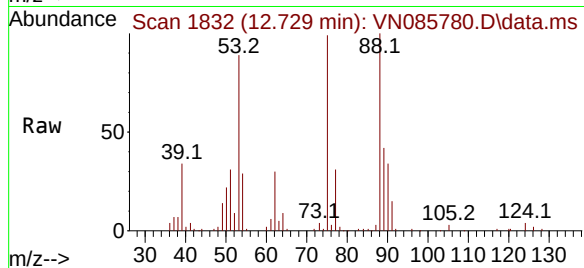
#81
trans-1,4-Dichloro-2-butene
Concen: 47.152 ug/l
RT: 12.729 min Scan# 1832
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Tgt Ion: 75 Resp: 7994
Ion Ratio Lower Upper
75 100
53 100.7 74.2 111.4
89 45.0 34.9 52.3

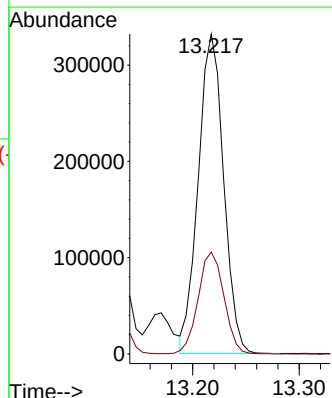
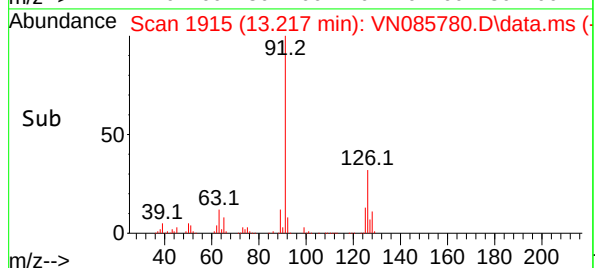
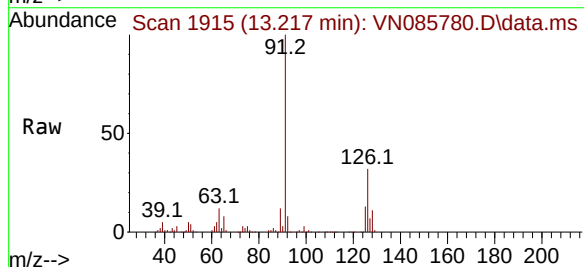
Manual Integrations
APPROVED

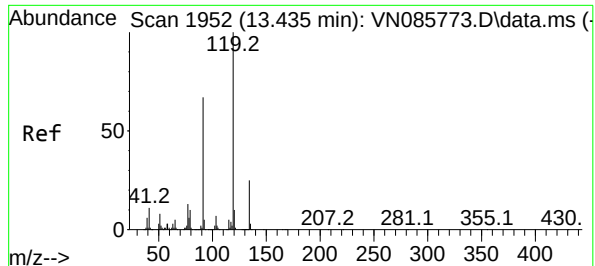
Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#82
4-Chlorotoluene
Concen: 47.401 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion: 91 Resp: 548585
Ion Ratio Lower Upper
91 100
126 32.5 16.4 49.4





#83

tert-Butylbenzene

Concen: 49.904 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion:119 Resp: 52155

Ion Ratio Lower Upper

119 100

91 66.9 32.5 97.5

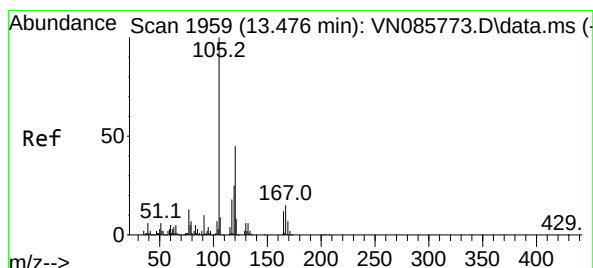
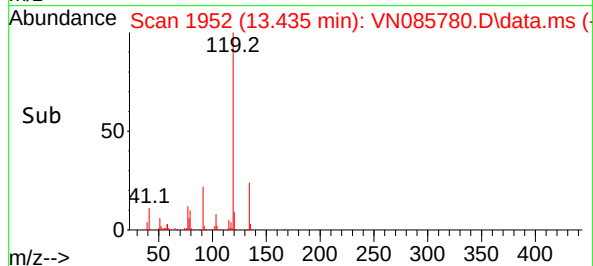
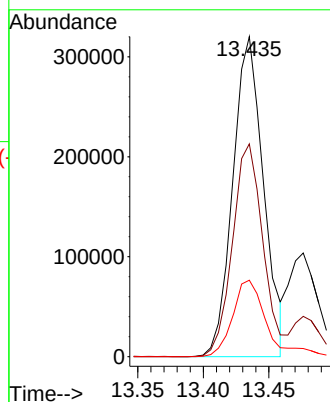
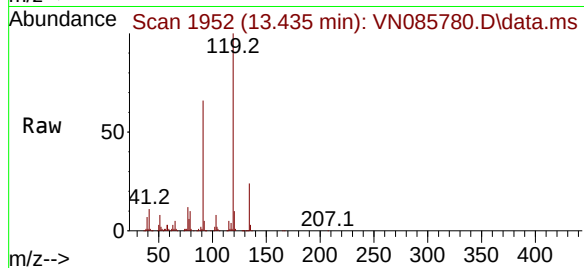
134 26.4 13.3 39.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.531 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN085780.D

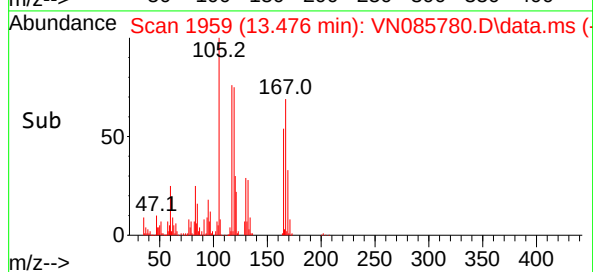
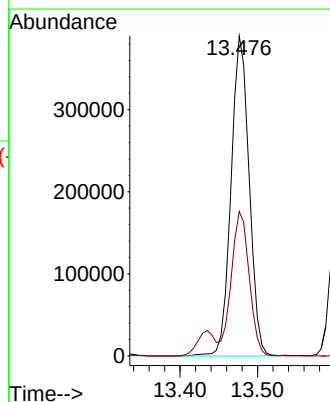
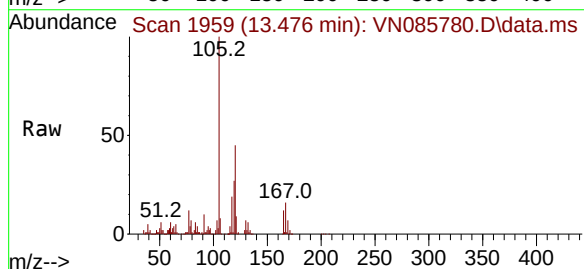
Acq: 18 Feb 2025 16:28

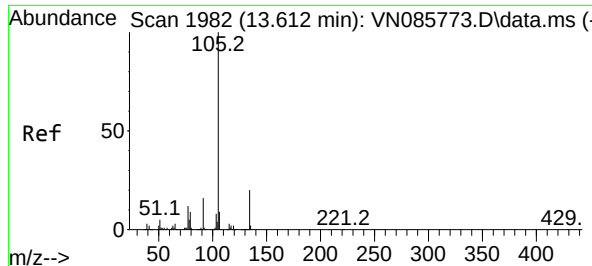
Tgt Ion:105 Resp: 633621

Ion Ratio Lower Upper

105 100

120 45.2 22.4 67.3





#85

sec-Butylbenzene

Concen: 49.925 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion:105 Resp: 737200

Ion Ratio Lower Upper

105 100

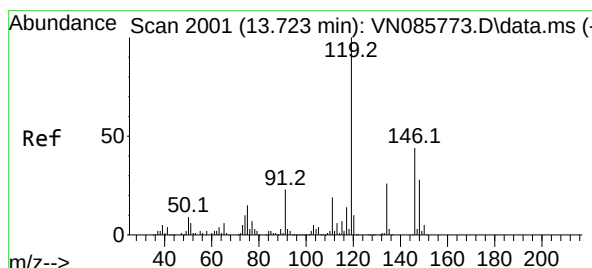
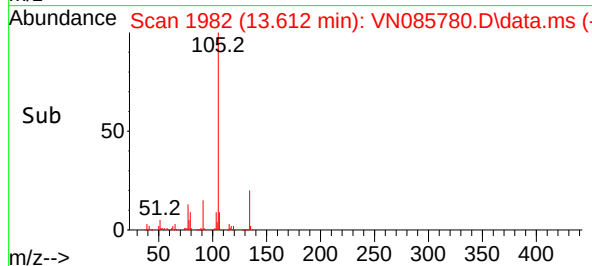
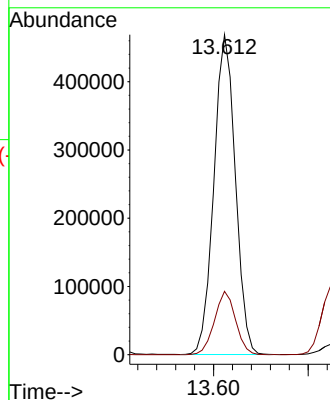
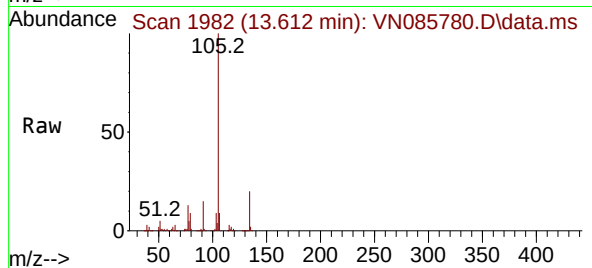
134 19.5 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#86

p-Isopropyltoluene

Concen: 46.012 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

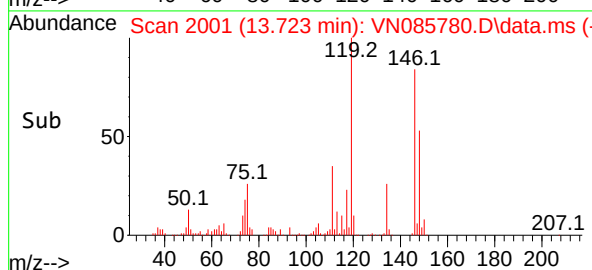
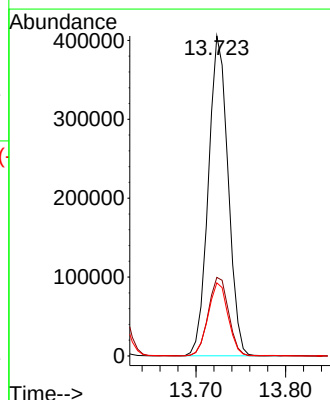
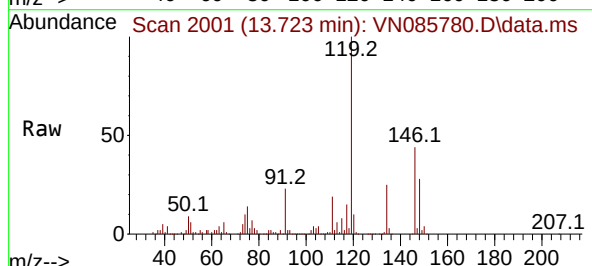
Tgt Ion:119 Resp: 617918

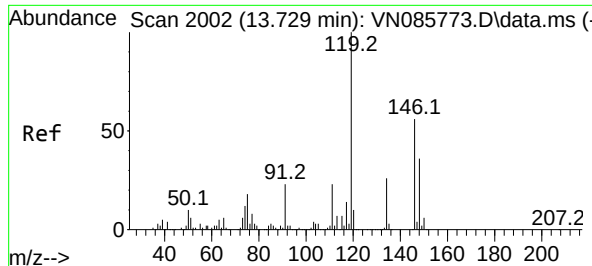
Ion Ratio Lower Upper

119 100

134 25.4 13.0 39.0

91 23.1 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 44.186 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNV021825

Tgt Ion:146 Resp: 341228

Ion Ratio Lower Upper

146 100

111 41.5 21.1 63.3

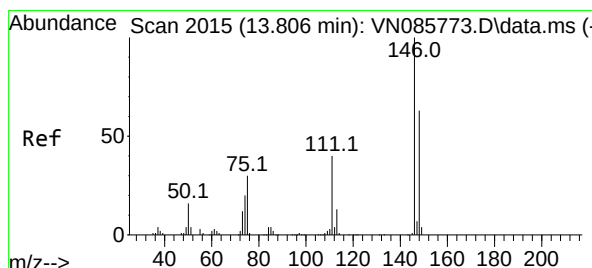
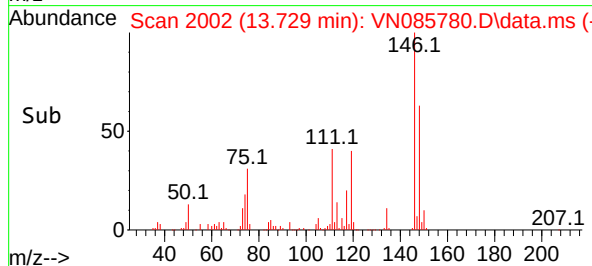
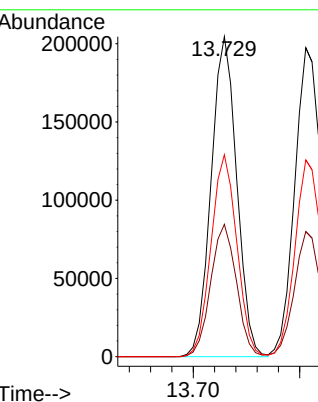
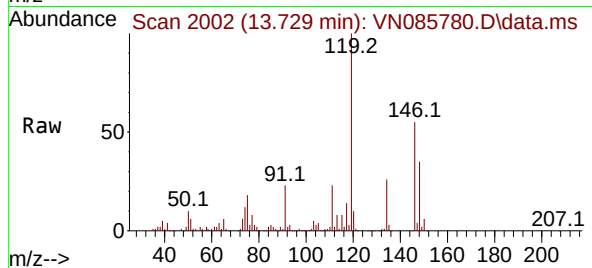
148 63.7 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#88

1,4-Dichlorobenzene

Concen: 42.781 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

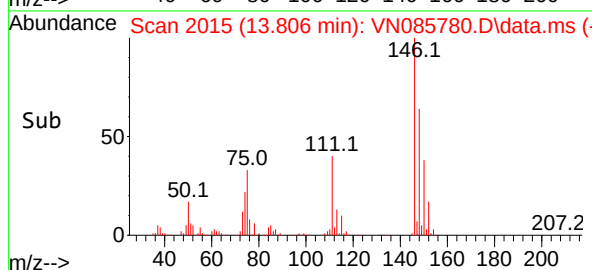
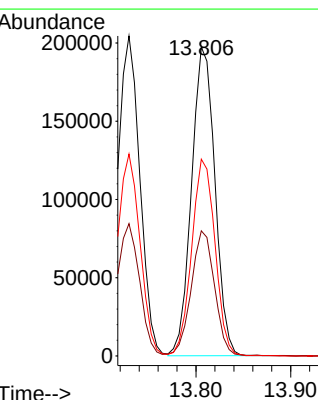
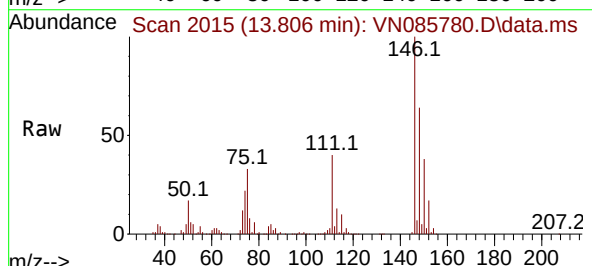
Tgt Ion:146 Resp: 338619

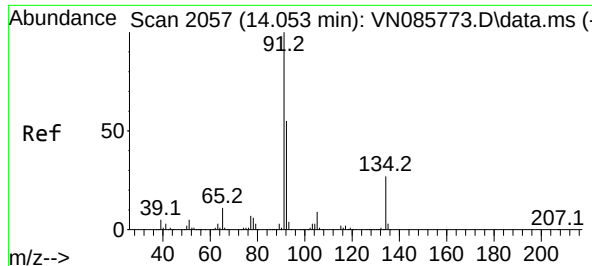
Ion Ratio Lower Upper

146 100

111 40.3 20.4 61.3

148 63.6 31.8 95.4





#89

n-Butylbenzene

Concen: 49.015 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

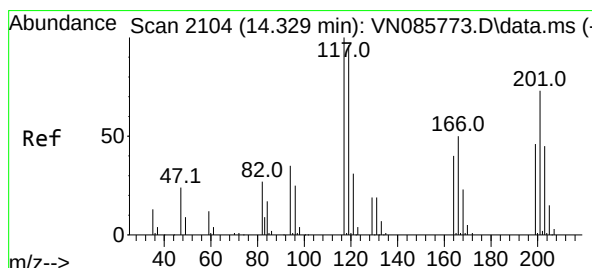
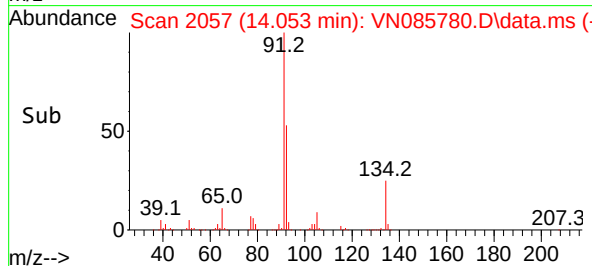
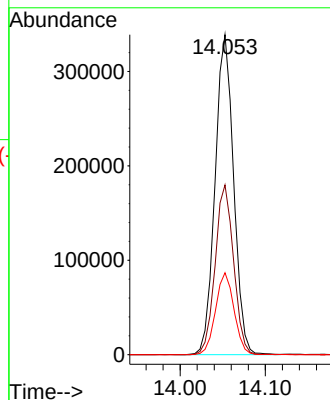
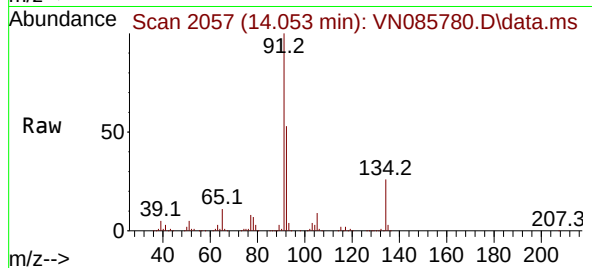
Instrument :

MSVOA_N

ClientSampleId :

ICVVN021825

Tgt Ion:	91	Resp:	51386
Ion Ratio	Lower	Upper	
91	100		
92	52.7	27.1	81.3
134	25.5	12.7	38.1

Manual Integrations
APPROVEDReviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025

#90

Hexachloroethane

Concen: 42.828 ug/l

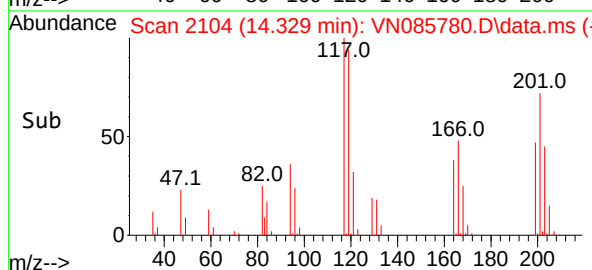
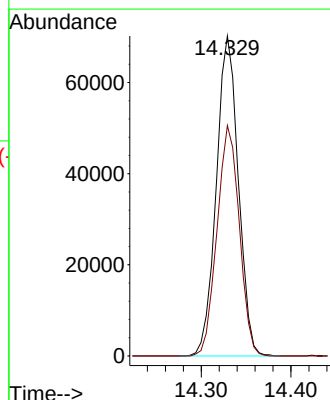
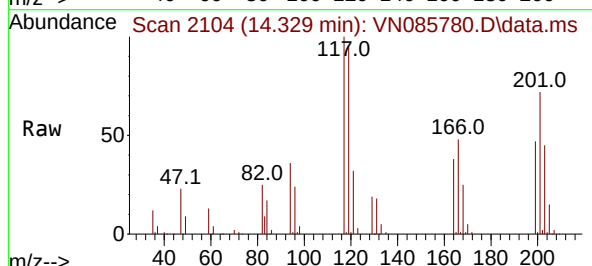
RT: 14.329 min Scan# 2104

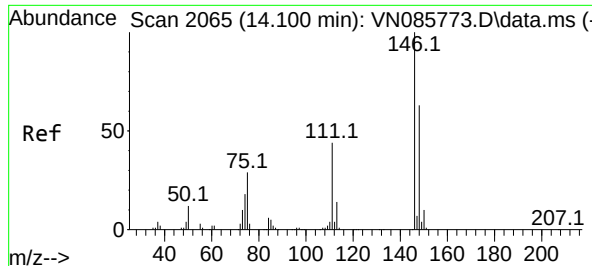
Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Tgt Ion:	117	Resp:	119768
Ion Ratio	Lower	Upper	
117	100		
201	72.7	35.6	106.9





#91

1,2-Dichlorobenzene

Concen: 43.883 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNV021825

Tgt Ion:146 Resp: 32588

Ion Ratio Lower Upper

146 100

111 42.9 21.4 64.3

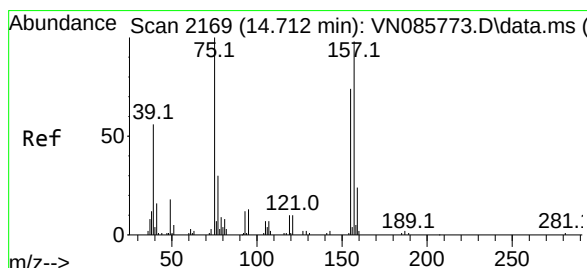
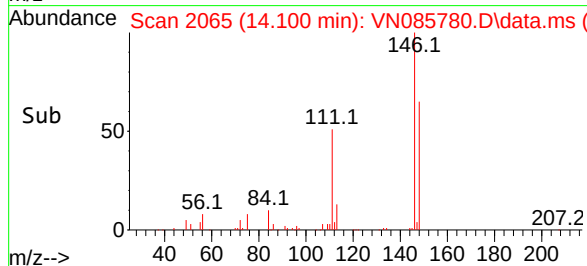
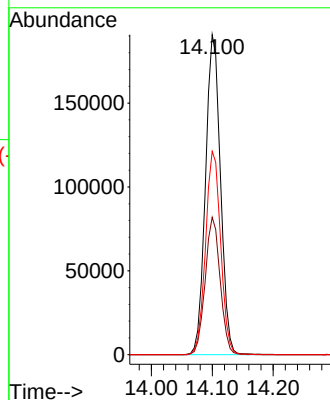
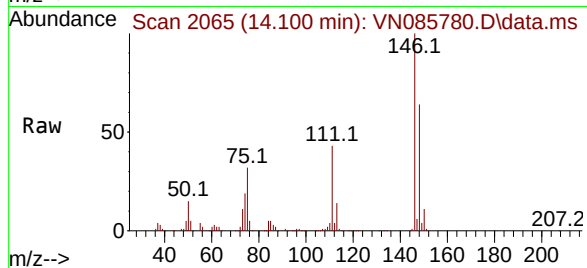
148 64.0 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 43.396 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.006 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

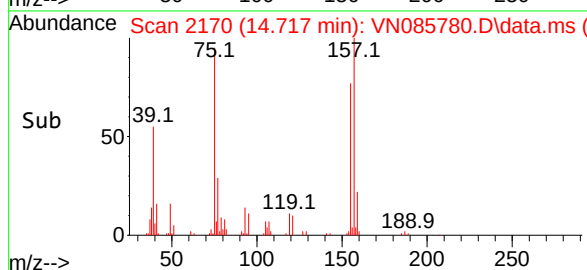
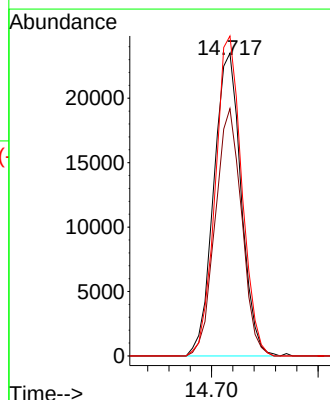
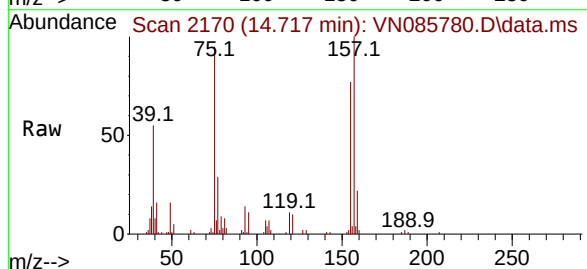
Tgt Ion: 75 Resp: 41836

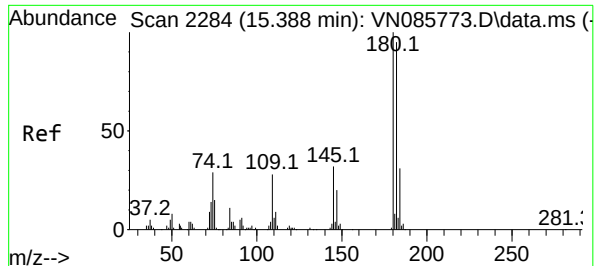
Ion Ratio Lower Upper

75 100

155 78.9 39.9 119.6

157 102.1 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 45.640 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN021825

Tgt Ion:180 Resp: 16150

Ion Ratio Lower Upper

180 100

182 95.5 47.3 141.9

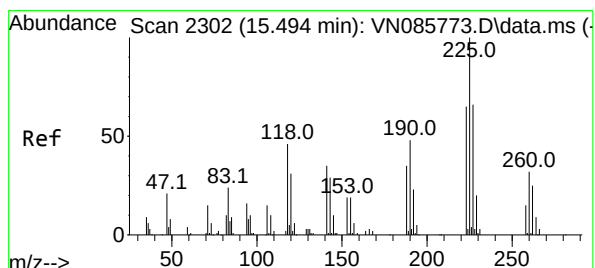
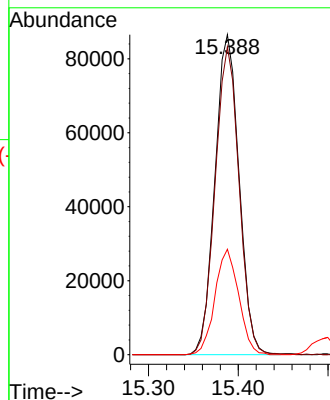
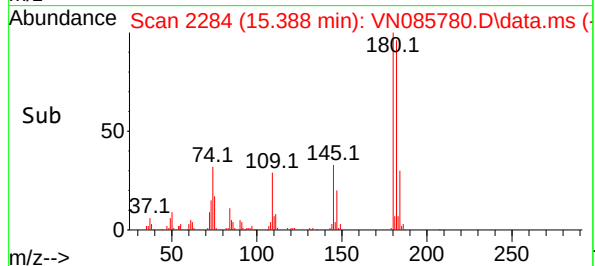
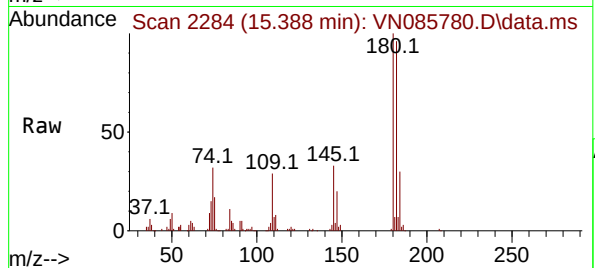
145 32.4 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/19/2025

Supervised By :Mahesh Dadoda 02/19/2025



#94

Hexachlorobutadiene

Concen: 39.087 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.000 min

Lab File: VN085780.D

Acq: 18 Feb 2025 16:28

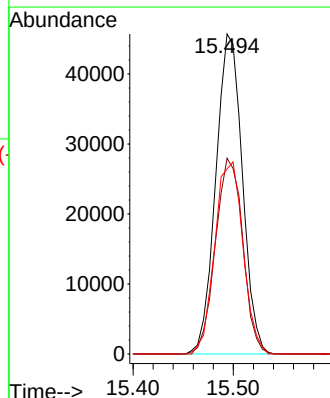
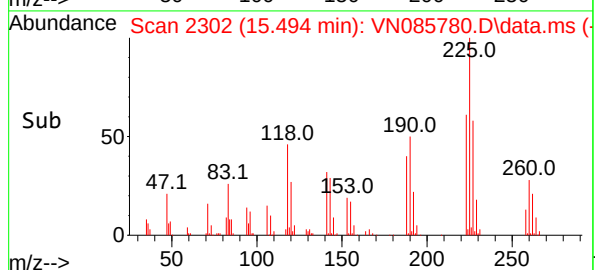
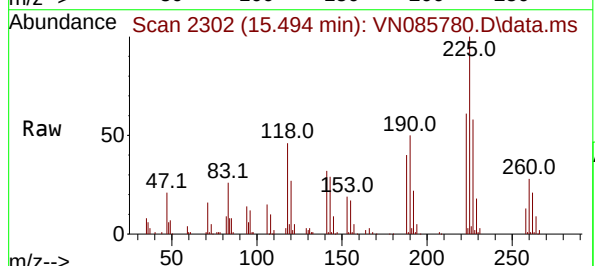
Tgt Ion:225 Resp: 84060

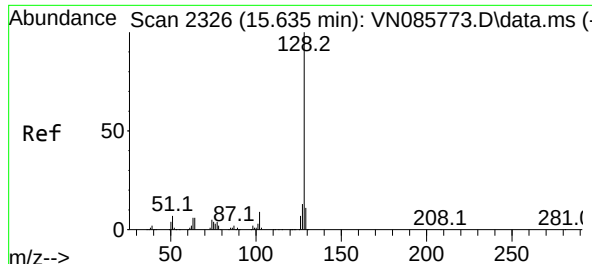
Ion Ratio Lower Upper

225 100

223 62.9 31.9 95.5

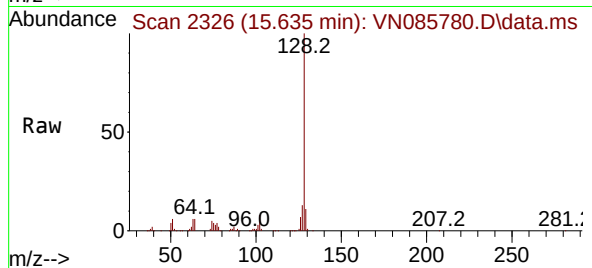
227 63.8 32.2 96.6





#95
Naphthalene
Concen: 50.167 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

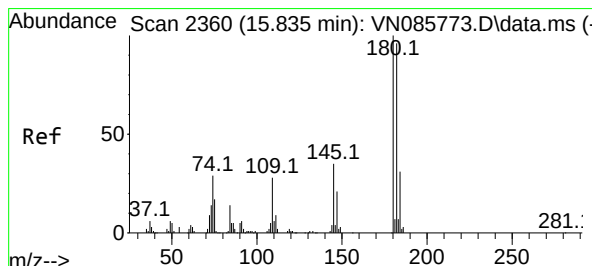
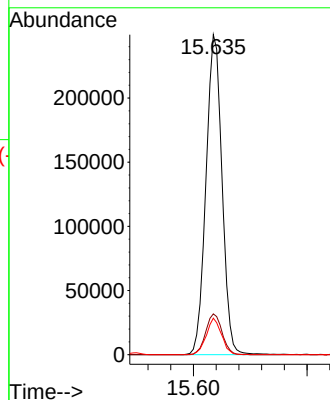
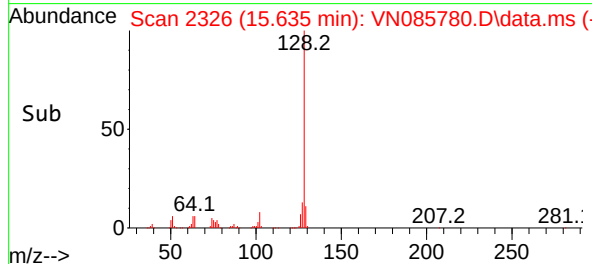
Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825



Tgt Ion:128 Resp: 487372
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 10.8 8.7 13.1

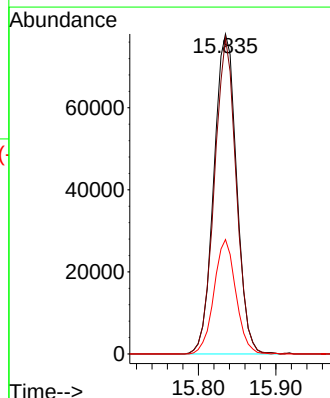
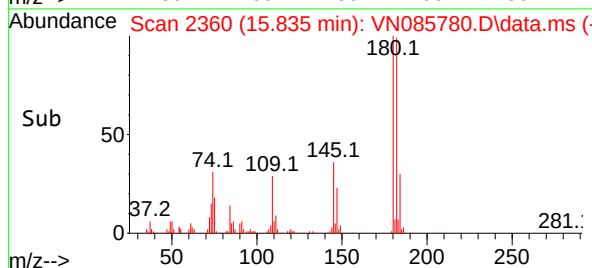
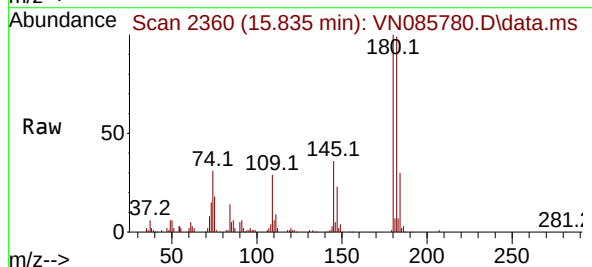
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/19/2025
Supervised By :Mahesh Dadoda 02/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 44.593 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085780.D
Acq: 18 Feb 2025 16:28

Tgt Ion:180 Resp: 158416
Ion Ratio Lower Upper
180 100
182 94.9 47.3 141.8
145 34.6 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.680	0.615	9.6	89	0.00
3 P	Chloromethane	0.682	0.579	15.1	91	0.00
4 C	Vinyl Chloride	0.723	0.628	13.1#	90	0.00
5 T	Bromomethane	0.462	0.381	17.5	88	0.00
6 T	Chloroethane	0.479	0.391	18.4	92	0.00
7 T	Trichlorofluoromethane	1.046	0.891	14.8	91	0.00
8 T	Diethyl Ether	0.339	0.307	9.4	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.527	12.9	91	0.00
10 T	Methyl Iodide	0.745	0.674	9.5	91	0.00
11 T	Tert butyl alcohol	0.080	0.076	5.0	94	0.00
12 CM	1,1-Dichloroethene	0.548	0.490	10.6#	90	0.00
13 T	Acrolein	0.118	0.114	3.4	88	0.00
14 T	Allyl chloride	0.720	0.642	10.8	90	0.00
15 T	Acrylonitrile	0.259	0.241	6.9	96	0.00
16 T	Acetone	0.205	0.178	13.2	94	0.00
17 T	Carbon Disulfide	1.625	1.347	17.1	89	0.00
18 T	Methyl Acetate	0.705	0.621	11.9	98	0.00
19 T	Methyl tert-butyl Ether	1.629	1.565	3.9	92	0.00
20 T	Methylene Chloride	0.660	0.553	16.2	91	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.513	13.1	91	0.00
22 T	Diisopropyl ether	1.627	1.540	5.3	91	0.00
23 T	Vinyl Acetate	1.114	1.082	2.9	94	0.00
24 P	1,1-Dichloroethane	1.106	0.960	13.2	90	0.00
25 T	2-Butanone	0.302	0.291	3.6	96	0.00
26 T	2,2-Dichloropropane	0.983	0.873	11.2	90	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.606	11.5	89	0.00
28 T	Bromochloromethane	0.454	0.454	0.0	100	0.00
29 T	Tetrahydrofuran	0.195	0.194	0.5	97	0.00
30 C	Chloroform	1.156	0.995	13.9#	91	0.00
31 T	Cyclohexane	0.926	0.791	14.6	90	0.00
32 T	1,1,1-Trichloroethane	1.028	0.897	12.7	90	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.650	-0.3	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35 S	Dibromofluoromethane	0.327	0.334	-2.1	102	0.00
36 T	1,1-Dichloropropene	0.463	0.431	6.9	91	0.00
37 T	Ethyl Acetate	0.381	0.357	6.3	92	0.00
38 T	Carbon Tetrachloride	0.550	0.493	10.4	91	0.00
39 T	Methylcyclohexane	0.455	0.451	0.9	89	0.00
40 TM	Benzene	1.484	1.336	10.0	90	0.00
41 T	Methacrylonitrile	0.204	0.206	-1.0	93	0.00
42 TM	1,2-Dichloroethane	0.483	0.438	9.3	93	0.00
43 T	Isopropyl Acetate	0.807	0.621	23.0	95	0.00
44 TM	Trichloroethene	0.364	0.316	13.2	90	0.00
45 C	1,2-Dichloropropane	0.358	0.324	9.5#	91	0.00
46 T	Dibromomethane	0.253	0.232	8.3	93	0.00
47 T	Bromodichloromethane	0.541	0.481	11.1	90	0.00
48 T	Methyl methacrylate	0.283	0.292	-3.2	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVNVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.005	0.005	0.0	91	0.00
50 S	Toluene-d8	1.190	1.275	-7.1	103	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.374	-1.9	96	0.00
52 CM	Toluene	0.870	0.841	3.3#	90	0.00
53 T	t-1,3-Dichloropropene	0.500	0.489	2.2	91	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.528	3.6	90	0.00
55 T	1,1,2-Trichloroethane	0.346	0.313	9.5	92	0.00
56 T	Ethyl methacrylate	0.434	0.477	-9.9	93	0.00
57 T	1,3-Dichloropropane	0.577	0.534	7.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.222	-13.8	123	0.00
59 T	2-Hexanone	0.253	0.269	-6.3	96	0.00
60 T	Dibromochloromethane	0.403	0.376	6.7	91	0.00
61 T	1,2-Dibromoethane	0.327	0.309	5.5	93	0.00
62 S	4-Bromofluorobenzene	0.392	0.444	-13.3	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.387	0.326	15.8	89	0.00
65 PM	Chlorobenzene	1.145	1.018	11.1	91	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.359	12.9	90	0.00
67 C	Ethyl Benzene	1.794	1.746	2.7#	91	0.00
68 T	m/p-Xylenes	0.682	0.679	0.4	91	0.00
69 T	o-Xylene	0.648	0.646	0.3	91	0.00
70 T	Styrene	1.059	1.092	-3.1	90	0.00
71 P	Bromoform	0.306	0.285	6.9	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	3.425	3.357	2.0	91	0.00
74 T	N-amyl acetate	1.208	1.193	1.2	94	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.014	14.0	94	0.00
76 T	1,2,3-Trichloropropane	1.111	1.023	7.9	106	0.00
77 T	Bromobenzene	0.925	0.834	9.8	90	0.00
78 T	n-propylbenzene	3.923	3.917	0.2	90	0.00
79 T	2-Chlorotoluene	2.621	2.430	7.3	91	0.00
80 T	1,3,5-Trimethylbenzene	2.790	2.793	-0.1	89	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.359	5.8	89	0.00
82 T	4-Chlorotoluene	2.598	2.463	5.2	91	0.00
83 T	tert-Butylbenzene	2.346	2.342	0.2	89	0.00
84 T	1,2,4-Trimethylbenzene	2.761	2.845	-3.0	90	0.00
85 T	sec-Butylbenzene	3.315	3.310	0.2	89	0.00
86 T	p-Isopropyltoluene	2.665	2.775	-4.1	89	0.00
87 T	1,3-Dichlorobenzene	1.734	1.532	11.6	92	0.00
88 T	1,4-Dichlorobenzene	1.777	1.521	14.4	90	0.00
89 T	n-Butylbenzene	2.354	2.307	2.0	89	0.00
90 T	Hexachloroethane	0.628	0.538	14.3	90	0.00
91 T	1,2-Dichlorobenzene	1.667	1.463	12.2	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.188	13.0	95	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.725	8.7	89	0.00
94 T	Hexachlorobutadiene	0.483	0.377	21.9	87	0.00
95 T	Naphthalene	2.181	2.189	-0.4	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.798	0.711	10.9	88	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVNVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	45.199	9.6	89	0.00
3 P	Chloromethane	50.000	42.438	15.1	91	0.00
4 C	Vinyl Chloride	50.000	43.449	13.1#	90	0.00
5 T	Bromomethane	50.000	41.282	17.4	88	0.00
6 T	Chloroethane	50.000	40.887	18.2	92	0.00
7 T	Trichlorofluoromethane	50.000	42.592	14.8	91	0.00
8 T	Diethyl Ether	50.000	45.353	9.3	90	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	43.582	12.8	91	0.00
10 T	Methyl Iodide	50.000	45.190	9.6	91	0.00
11 T	Tert butyl alcohol	250.000	237.350	5.1	94	0.00
12 CM	1,1-Dichloroethene	50.000	44.667	10.7#	90	0.00
13 T	Acrolein	250.000	241.140	3.5	88	0.00
14 T	Allyl chloride	50.000	44.555	10.9	90	0.00
15 T	Acrylonitrile	250.000	232.720	6.9	96	0.00
16 T	Acetone	250.000	217.115	13.2	94	0.00
17 T	Carbon Disulfide	50.000	41.449	17.1	89	0.00
18 T	Methyl Acetate	50.000	44.011	12.0	98	0.00
19 T	Methyl tert-butyl Ether	50.000	48.014	4.0	92	0.00
20 T	Methylene Chloride	50.000	41.955	16.1	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	43.475	13.0	91	0.00
22 T	Diisopropyl ether	50.000	47.344	5.3	91	0.00
23 T	Vinyl Acetate	250.000	242.867	2.9	94	0.00
24 P	1,1-Dichloroethane	50.000	43.396	13.2	90	0.00
25 T	2-Butanone	250.000	240.836	3.7	96	0.00
26 T	2,2-Dichloropropane	50.000	44.383	11.2	90	0.00
27 T	cis-1,2-Dichloroethene	50.000	44.284	11.4	89	0.00
28 T	Bromochloromethane	50.000	49.991	0.0	100	0.00
29 T	Tetrahydrofuran	250.000	248.913	0.4	97	0.00
30 C	Chloroform	50.000	43.065	13.9#	91	0.00
31 T	Cyclohexane	50.000	42.725	14.5	90	0.00
32 T	1,1,1-Trichloroethane	50.000	43.640	12.7	90	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.125	-0.3	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35 S	Dibromofluoromethane	50.000	50.972	-1.9	102	0.00
36 T	1,1-Dichloropropene	50.000	46.581	6.8	91	0.00
37 T	Ethyl Acetate	50.000	46.779	6.4	92	0.00
38 T	Carbon Tetrachloride	50.000	44.828	10.3	91	0.00
39 T	Methylcyclohexane	50.000	49.612	0.8	89	0.00
40 TM	Benzene	50.000	45.016	10.0	90	0.00
41 T	Methacrylonitrile	50.000	50.597	-1.2	93	0.00
42 TM	1,2-Dichloroethane	50.000	45.321	9.4	93	0.00
43 T	Isopropyl Acetate	50.000	46.374	7.3	95	0.00
44 TM	Trichloroethene	50.000	43.368	13.3	90	0.00
45 C	1,2-Dichloropropane	50.000	45.194	9.6#	91	0.00
46 T	Dibromomethane	50.000	45.867	8.3	93	0.00
47 T	Bromodichloromethane	50.000	44.443	11.1	90	0.00
48 T	Methyl methacrylate	50.000	51.566	-3.1	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1010.103	-1.0	91	0.00
50 S	Toluene-d8	50.000	53.575	-7.2	103	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.433	-1.8	96	0.00
52 CM	Toluene	50.000	48.324	3.4#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	48.873	2.3	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.172	3.7	90	0.00
55 T	1,1,2-Trichloroethane	50.000	45.289	9.4	92	0.00
56 T	Ethyl methacrylate	50.000	48.142	3.7	93	0.00
57 T	1,3-Dichloropropane	50.000	46.254	7.5	92	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	276.203	-10.5	123	0.00
59 T	2-Hexanone	250.000	266.284	-6.5	96	0.00
60 T	Dibromochloromethane	50.000	46.707	6.6	91	0.00
61 T	1,2-Dibromoethane	50.000	47.208	5.6	93	0.00
62 S	4-Bromofluorobenzene	50.000	56.665	-13.3	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	42.088	15.8	89	0.00
65 PM	Chlorobenzene	50.000	44.422	11.2	91	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	43.545	12.9	90	0.00
67 C	Ethyl Benzene	50.000	48.655	2.7#	91	0.00
68 T	m/p-Xylenes	100.000	99.562	0.4	91	0.00
69 T	o-Xylene	50.000	49.837	0.3	91	0.00
70 T	Styrene	50.000	45.726	8.5	90	0.00
71 P	Bromoform	50.000	46.617	6.8	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	49.002	2.0	91	0.00
74 T	N-amyl acetate	50.000	49.401	1.2	94	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	43.005	14.0	94	0.00
76 T	1,2,3-Trichloropropane	50.000	46.070	7.9	106	0.00
77 T	Bromobenzene	50.000	45.084	9.8	90	0.00
78 T	n-propylbenzene	50.000	49.927	0.1	90	0.00
79 T	2-Chlorotoluene	50.000	46.350	7.3	91	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	89	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	47.152	5.7	89	0.00
82 T	4-Chlorotoluene	50.000	47.401	5.2	91	0.00
83 T	tert-Butylbenzene	50.000	49.904	0.2	89	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.531	-3.1	90	0.00
85 T	sec-Butylbenzene	50.000	49.925	0.2	89	0.00
86 T	p-Isopropyltoluene	50.000	46.012	8.0	89	0.00
87 T	1,3-Dichlorobenzene	50.000	44.186	11.6	92	0.00
88 T	1,4-Dichlorobenzene	50.000	42.781	14.4	90	0.00
89 T	n-Butylbenzene	50.000	49.015	2.0	89	0.00
90 T	Hexachloroethane	50.000	42.828	14.3	90	0.00
91 T	1,2-Dichlorobenzene	50.000	43.883	12.2	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	43.396	13.2	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.640	8.7	89	0.00
94 T	Hexachlorobutadiene	50.000	39.087	21.8	87	0.00
95 T	Naphthalene	50.000	50.167	-0.3	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085780.D
Acq On : 18 Feb 2025 16:28
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN021825

Quant Time: Feb 19 05:09:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.593	10.8	88	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: MSVOA_N Calibration Date/Time: 02/26/2025 10:32

Lab File ID: VN085862.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.603		-11.32	20
Chloromethane	0.682	0.558	0.1	-18.18	20
Vinyl Chloride	0.723	0.629		-13	20
Bromomethane	0.462	0.387		-16.23	20
Chloroethane	0.479	0.404		-15.66	20
Trichlorofluoromethane	1.046	0.957		-8.51	20
1,1,2-Trichlorotrifluoroethane	0.605	0.565		-6.61	20
1,1-Dichloroethene	0.548	0.514		-6.2	20
Acetone	0.205	0.210		2.44	20
Carbon Disulfide	1.625	1.287		-20.8	20
Methyl tert-butyl Ether	1.629	1.702		4.48	20
Methyl Acetate	0.705	0.722		2.41	20
Methylene Chloride	0.660	0.593		-10.15	20
trans-1,2-Dichloroethene	0.590	0.540		-8.48	20
1,1-Dichloroethane	1.106	1.023	0.1	-7.51	20
Cyclohexane	0.926	0.771		-16.74	20
2-Butanone	0.302	0.329		8.94	20
Carbon Tetrachloride	0.550	0.534		-2.91	20
cis-1,2-Dichloroethene	0.685	0.645		-5.84	20
Bromochloromethane	0.454	0.410		-9.69	20
Chloroform	1.156	1.085		-6.14	20
1,1,1-Trichloroethane	1.028	0.968		-5.84	20
Methylcyclohexane	0.455	0.440		-3.3	20
Benzene	1.484	1.424		-4.04	20
1,2-Dichloroethane	0.483	0.472		-2.28	20
Trichloroethene	0.364	0.343		-5.77	20
1,2-Dichloropropane	0.358	0.349		-2.51	20
Bromodichloromethane	0.541	0.531		-1.85	20
4-Methyl-2-Pentanone	0.367	0.433		17.98	20
Toluene	0.870	0.905		4.02	20
t-1,3-Dichloropropene	0.500	0.524		4.8	20
cis-1,3-Dichloropropene	0.548	0.570		4.01	20
1,1,2-Trichloroethane	0.346	0.354		2.31	20
2-Hexanone	0.253	0.311		22.92	20
Dibromochloromethane	0.403	0.434		7.69	20
1,2-Dibromoethane	0.327	0.347		6.12	20
Tetrachloroethene	0.387	0.364		-5.94	20
Chlorobenzene	1.145	1.110	0.3	-3.06	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: MSVOA_N Calibration Date/Time: 02/26/2025 10:32

Lab File ID: VN085862.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	1.888		5.24	20
m/p-Xylenes	0.682	0.751		10.12	20
o-Xylene	0.648	0.712		9.88	20
Styrene	1.059	1.231		16.24	20
Bromoform	0.306	0.335	0.1	9.48	20
Isopropylbenzene	3.425	3.605		5.26	20
1,1,2,2-Tetrachloroethane	1.179	1.167	0.3	-1.02	20
1,3-Dichlorobenzene	1.734	1.687		-2.71	20
1,4-Dichlorobenzene	1.777	1.672		-5.91	20
1,2-Dichlorobenzene	1.667	1.637		-1.8	20
1,2-Dibromo-3-Chloropropane	0.216	0.219		1.39	20
1,2,4-Trichlorobenzene	0.794	0.770		-3.02	20
1,2,3-Trichlorobenzene	0.798	0.752		-5.76	20
1,2-Dichloroethane-d4	0.648	0.640		-1.24	20
Dibromofluoromethane	0.327	0.342		4.59	20
Toluene-d8	1.190	1.260		5.88	20
4-Bromofluorobenzene	0.392	0.440		12.24	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085862.D
 Acq On : 26 Feb 2025 10:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	312343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	503422	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	446587	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	218212	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	199937	49.374	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.740%
35) Dibromofluoromethane	8.165	113	171952	52.199	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.400%
50) Toluene-d8	10.565	98	634293	52.923	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.840%
62) 4-Bromofluorobenzene	12.847	95	221599	56.118	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	112.240%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	188214	44.301	ug/l	99
3) Chloromethane	2.360	50	174358	40.899	ug/l	98
4) Vinyl Chloride	2.512	62	196411	43.513	ug/l	99
5) Bromomethane	2.942	94	120879	41.881	ug/l	97
6) Chloroethane	3.112	64	126185	42.204	ug/l	96
7) Trichlorofluoromethane	3.495	101	298775	45.717	ug/l	100
8) Diethyl Ether	3.954	74	100035	47.308	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	176331	46.677	ug/l	98
10) Methyl Iodide	4.583	142	225173	48.356	ug/l	98
11) Tert butyl alcohol	5.518	59	140551	282.203	ug/l	100
12) 1,1-Dichloroethene	4.336	96	160535	46.868	ug/l	97
13) Acrolein	4.171	56	196306	265.790	ug/l	100
14) Allyl chloride	5.024	41	198507	44.141	ug/l	98
15) Acrylonitrile	5.712	53	418685	258.588	ug/l	99
16) Acetone	4.424	43	328581	256.442	ug/l	98
17) Carbon Disulfide	4.712	76	402059	39.606	ug/l	100
18) Methyl Acetate	5.024	43	225651	51.202	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	531646	52.233	ug/l	98
20) Methylene Chloride	5.271	84	185360	44.984	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	168803	45.768	ug/l	91
22) Diisopropyl ether	6.671	45	503092	49.509	ug/l	98
23) Vinyl Acetate	6.600	43	1749675	251.472	ug/l	98
24) 1,1-Dichloroethane	6.565	63	319388	46.236	ug/l	99
25) 2-Butanone	7.483	43	513951	272.647	ug/l	99
26) 2,2-Dichloropropane	7.483	77	289279	47.094	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	201613	47.145	ug/l	100
28) Bromochloromethane	7.812	49	128132	45.130	ug/l	97
29) Tetrahydrofuran	7.836	42	338346	277.958	ug/l	97
30) Chloroform	7.965	83	338948	46.953	ug/l	99
31) Cyclohexane	8.253	56	240788	41.631	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	302193	47.064	ug/l	98
36) 1,1-Dichloropropene	8.371	75	227474	48.792	ug/l	99
37) Ethyl Acetate	7.553	43	208875	54.442	ug/l	98
38) Carbon Tetrachloride	8.359	117	268978	48.556	ug/l	93
39) Methylcyclohexane	9.600	83	221479	48.357	ug/l	98
40) Benzene	8.600	78	716647	47.961	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085862.D
 Acq On : 26 Feb 2025 10:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 02:26:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M

Quant Title : SW846 8260

QLast Update : Wed Feb 19 03:43:32 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	112517	54.860	ug/l	96
42) 1,2-Dichloroethane	8.665	62	237756	48.849	ug/l	98
43) Isopropyl Acetate	8.683	43	341121	50.669	ug/l	98
44) Trichloroethene	9.347	130	172862	47.117	ug/l	96
45) 1,2-Dichloropropane	9.618	63	175801	48.741	ug/l	97
46) Dibromomethane	9.706	93	126223	49.614	ug/l	97
47) Bromodichloromethane	9.883	83	267549	49.154	ug/l	100
48) Methyl methacrylate	9.677	41	157337	55.219	ug/l	95
49) 1,4-Dioxane	9.694	88	73078	1348.716	ug/l	95
51) 4-Methyl-2-Pentanone	10.441	43	1089144	294.439	ug/l	100
52) Toluene	10.630	92	455712	52.028	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	263991	52.451	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	287047	52.010	ug/l	96
55) 1,1,2-Trichloroethane	11.012	97	178096	51.140	ug/l	99
56) Ethyl methacrylate	10.871	69	272613	53.925	ug/l	98
57) 1,3-Dichloropropane	11.159	76	300052	51.613	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	612478	295.691	ug/l	97
59) 2-Hexanone	11.194	43	783015	307.699	ug/l	98
60) Dibromochloromethane	11.359	129	218377	53.851	ug/l	100
61) 1,2-Dibromoethane	11.465	107	174844	53.137	ug/l	100
64) Tetrachloroethene	11.100	164	162731	47.036	ug/l	97
65) Chlorobenzene	11.888	112	495840	48.466	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	185207	50.366	ug/l	99
67) Ethyl Benzene	11.959	91	843152	52.612	ug/l	100
68) m/p-Xylenes	12.071	106	670511	110.148	ug/l	99
69) o-Xylene	12.394	106	318031	54.979	ug/l	99
70) Styrene	12.406	104	549551	50.949	ug/l	100
71) Bromoform	12.576	173	149603	54.751	ug/l #	98
73) Isopropylbenzene	12.694	105	786716	52.624	ug/l	99
74) N-amyl acetate	12.488	43	289414	54.898	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	254660	49.503	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	205022m	42.297	ug/l	
77) Bromobenzene	12.976	156	206974	51.245	ug/l	99
78) n-propylbenzene	13.035	91	916789	53.548	ug/l	99
79) 2-Chlorotoluene	13.124	91	578612	50.582	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	667463	54.809	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	92557	55.714	ug/l	93
82) 4-Chlorotoluene	13.218	91	579227	51.077	ug/l	98
83) tert-Butylbenzene	13.435	119	550124	53.720	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	675986	56.106	ug/l	100
85) sec-Butylbenzene	13.612	105	762762	52.717	ug/l	99
86) p-Isopropyltoluene	13.723	119	644100	48.701	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	368073	48.641	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	364956	47.056	ug/l	100
89) n-Butylbenzene	14.053	91	509133	49.562	ug/l	98
90) Hexachloroethane	14.329	117	130894	47.768	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	357290	49.101	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	47781	50.581	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	167941	48.435	ug/l	99
94) Hexachlorobutadiene	15.500	225	87668	41.603	ug/l	99
95) Naphthalene	15.641	128	516827	54.292	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	164036	47.124	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

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

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

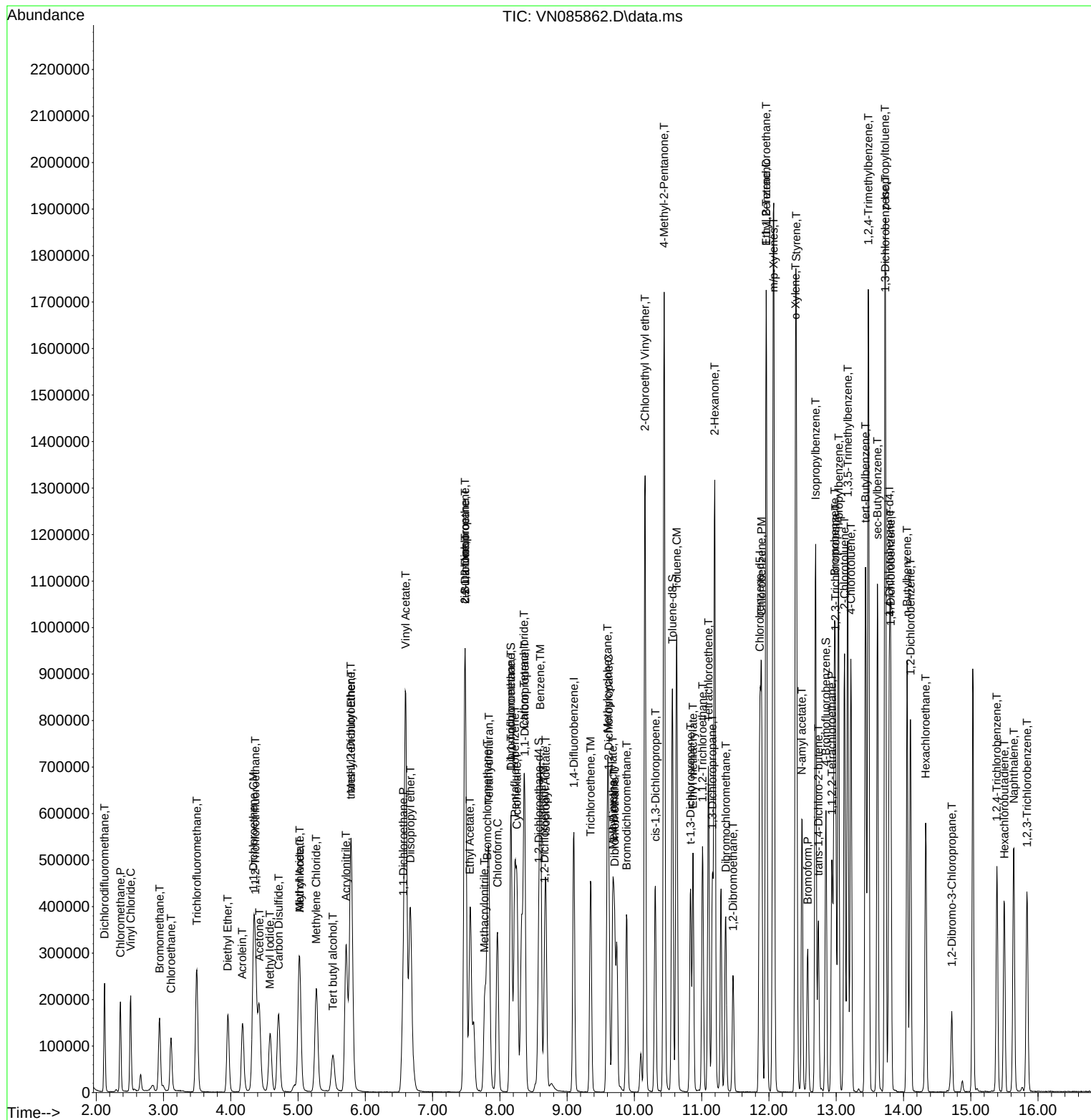
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\  
Data File : VN085862.D  
Acq On    : 26 Feb 2025  10:32  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3      Sample Multiplier: 1
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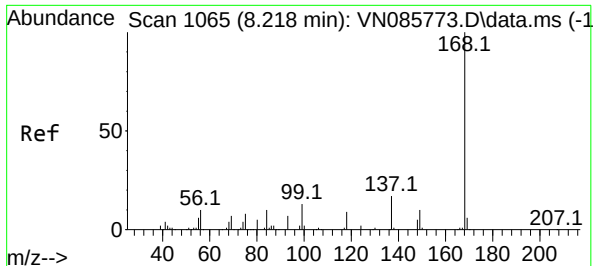
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration





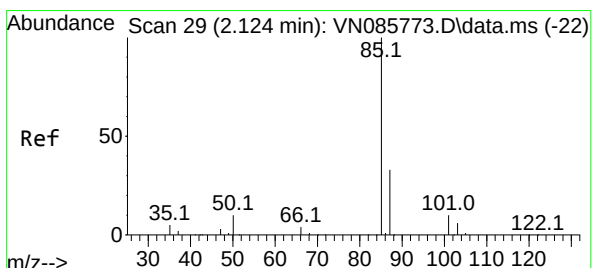
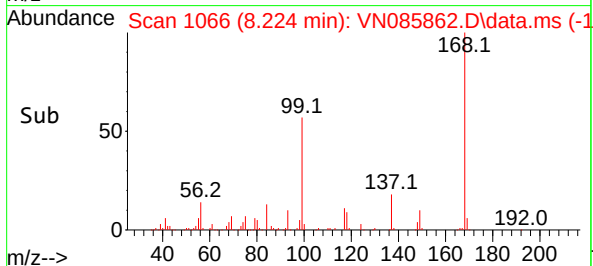
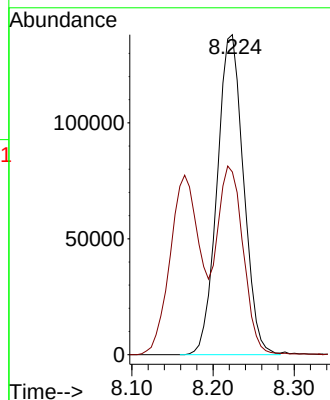
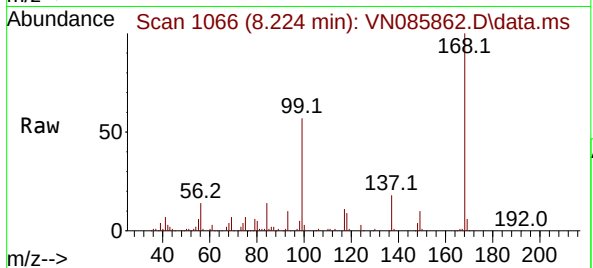
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 31234
Ion Ratio Lower Upper
168 100
99 56.8 47.9 71.9

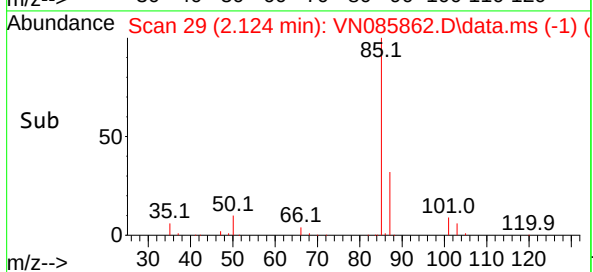
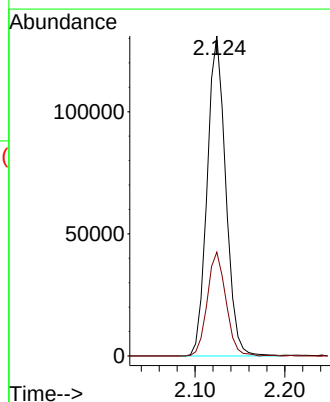
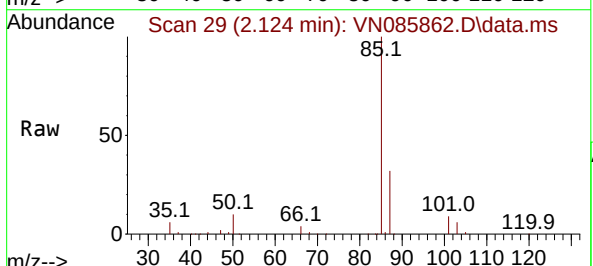
Manual Integrations
APPROVED

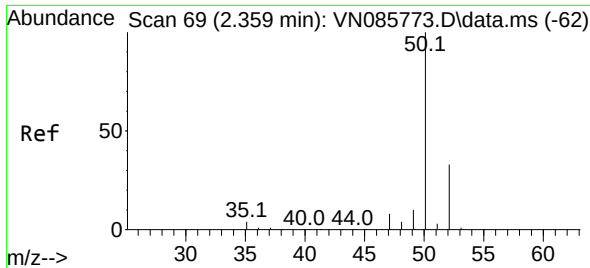
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 44.301 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 85 Resp: 188214
Ion Ratio Lower Upper
85 100
87 32.5 16.4 49.2





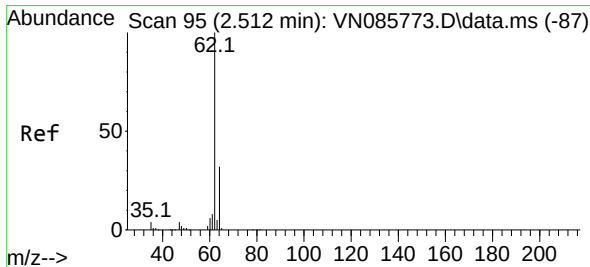
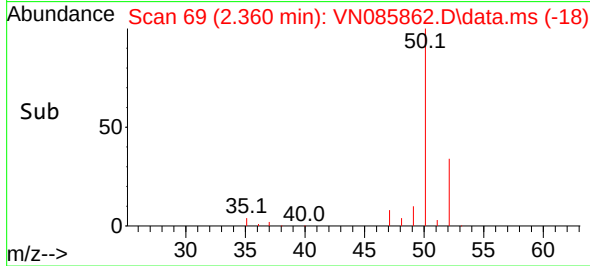
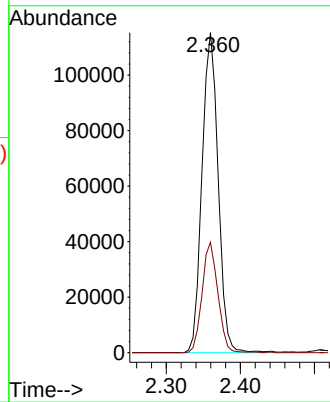
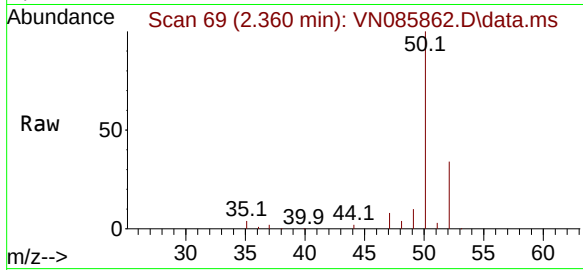
#3
Chloromethane
Concen: 40.899 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 17435
Ion Ratio Lower Upper
50 100
52 34.5 26.7 40.1

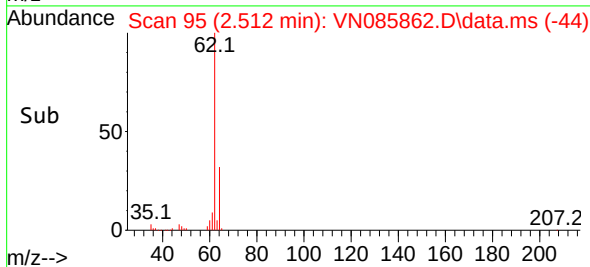
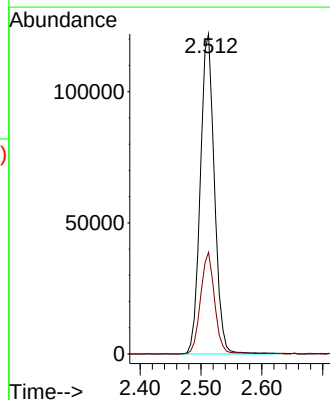
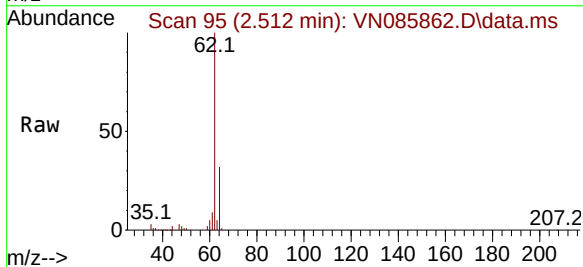
Manual Integrations
APPROVED

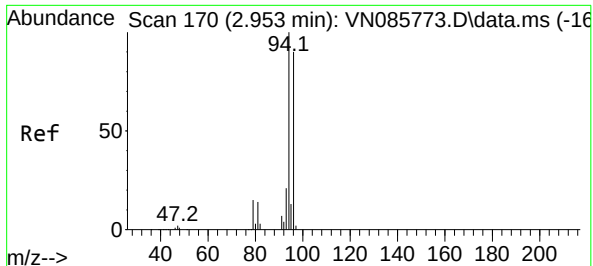
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Vinyl Chloride
Concen: 43.513 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 62 Resp: 196411
Ion Ratio Lower Upper
62 100
64 31.8 25.9 38.9





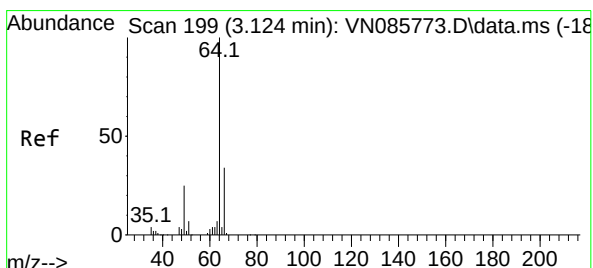
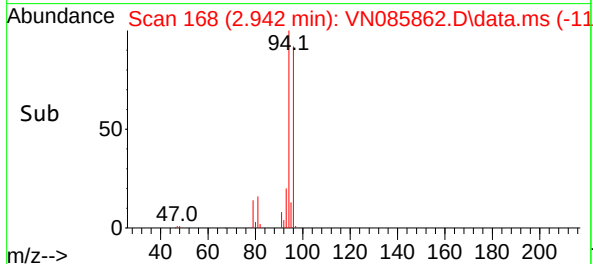
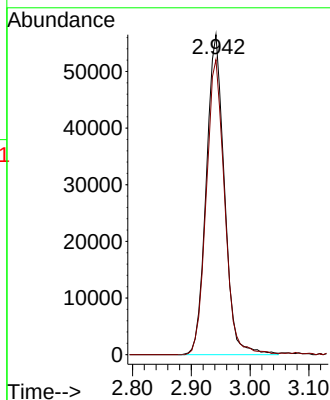
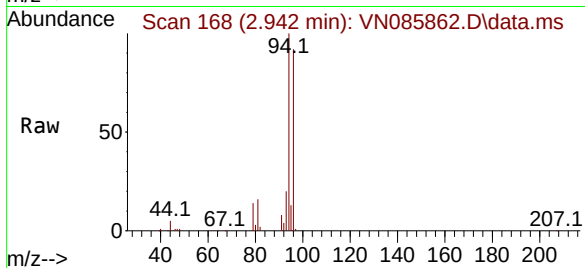
#5
Bromomethane
Concen: 41.881 ug/l
RT: 2.942 min Scan# 10
Delta R.T. -0.012 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 120879
Ion Ratio Lower Upper
94 100
96 92.2 71.7 107.5

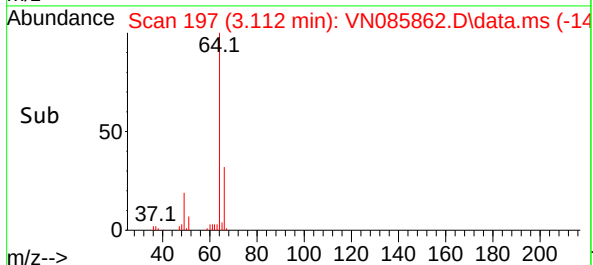
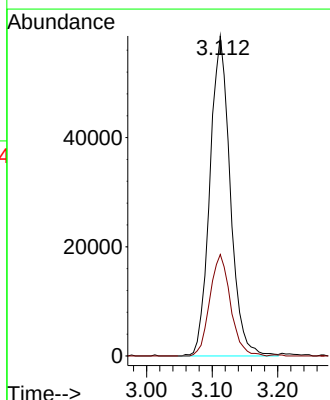
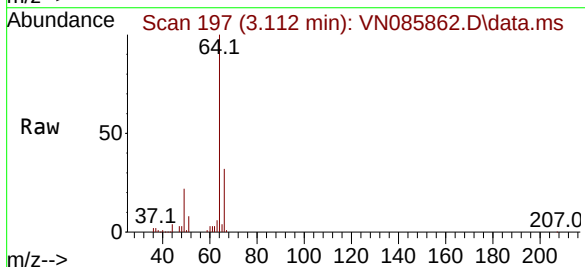
Manual Integrations
APPROVED

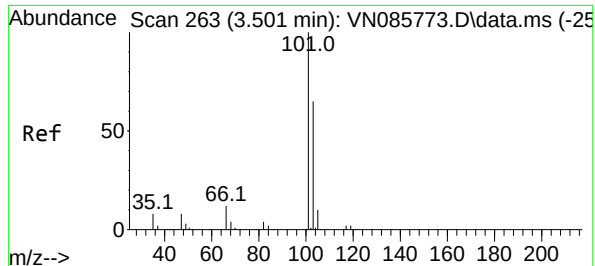
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#6
Chloroethane
Concen: 42.204 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

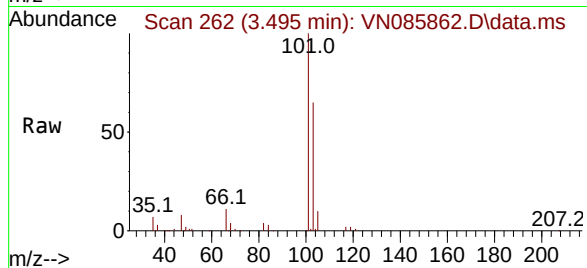
Tgt Ion: 64 Resp: 126185
Ion Ratio Lower Upper
64 100
66 31.7 27.0 40.6





#7
Trichlorofluoromethane
Concen: 45.717 ug/l
RT: 3.495 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

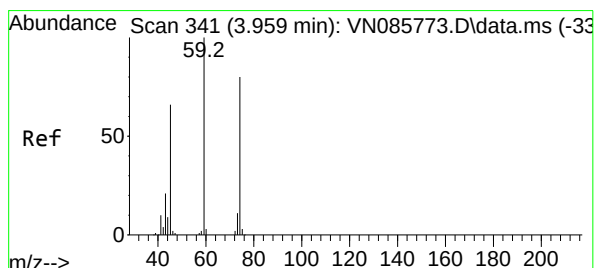
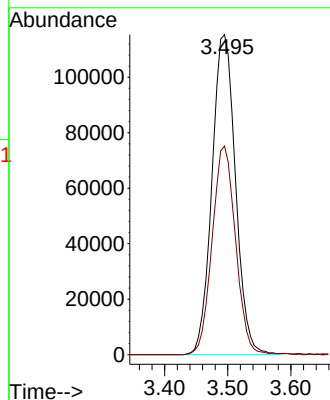
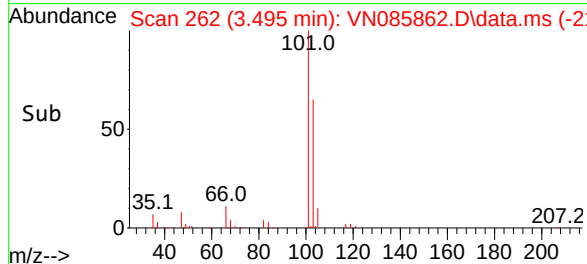
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 298775
Ion Ratio Lower Upper
101 100
103 65.2 52.2 78.4

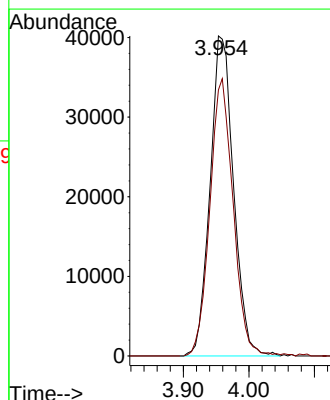
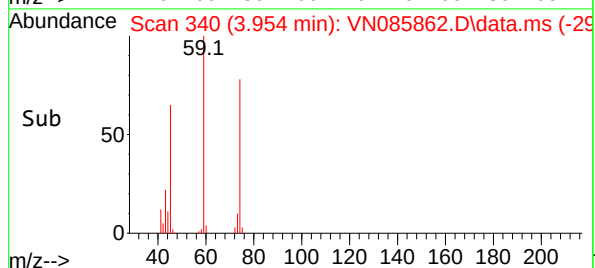
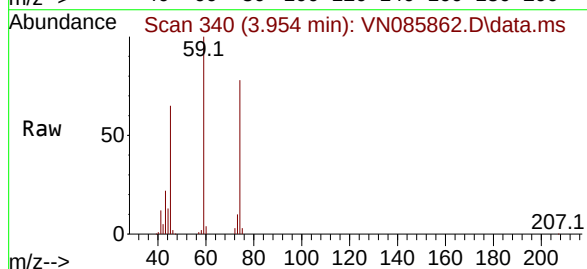
Manual Integrations
APPROVED

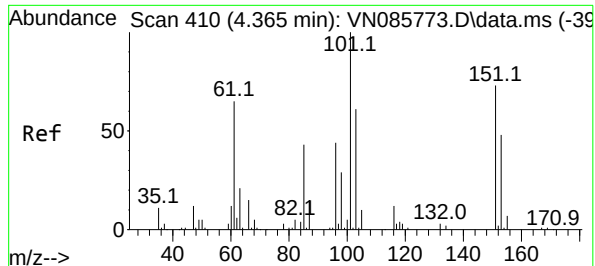
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#8
Diethyl Ether
Concen: 47.308 ug/l
RT: 3.954 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 74 Resp: 100035
Ion Ratio Lower Upper
74 100
45 86.1 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.677 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 17633

Ion Ratio Lower Upper

101 100

85 43.5 35.7 53.5

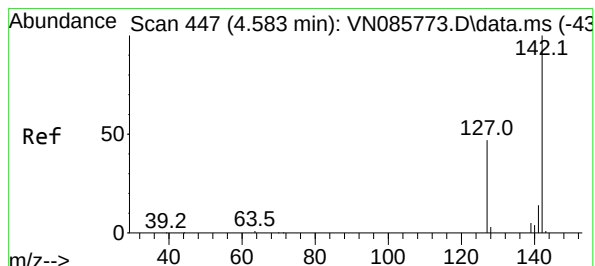
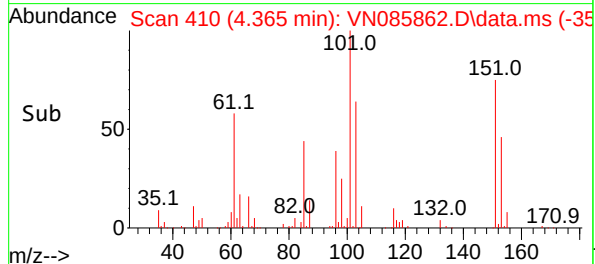
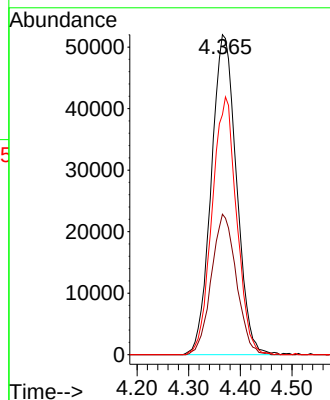
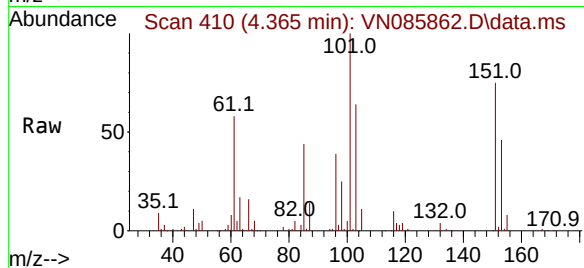
151 78.3 61.4 92.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#10

Methyl Iodide

Concen: 48.356 ug/l

RT: 4.583 min Scan# 447

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

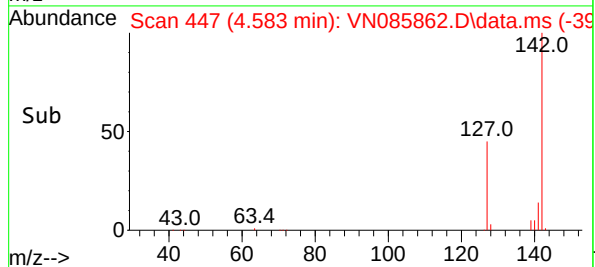
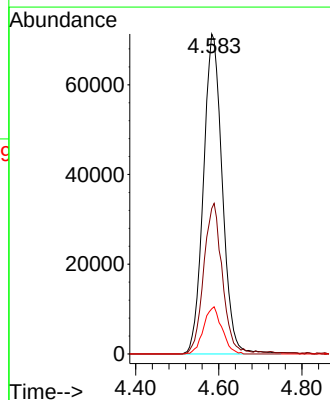
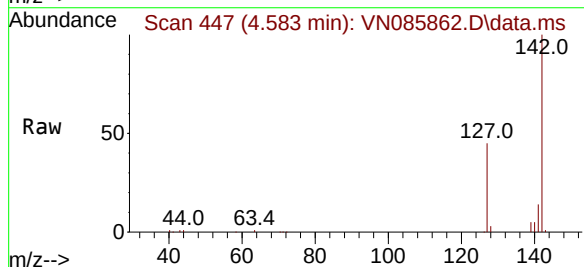
Tgt Ion:142 Resp: 225173

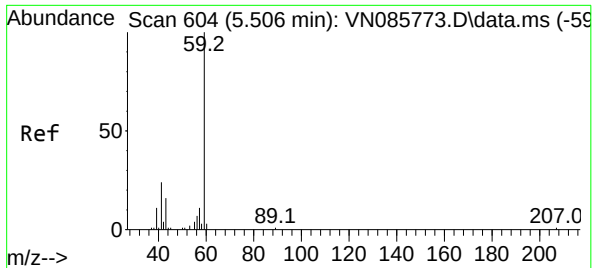
Ion Ratio Lower Upper

142 100

127 45.5 37.6 56.4

141 14.1 11.4 17.2





#11

Tert butyl alcohol

Concen: 282.203 ug/l

RT: 5.518 min Scan# 604

Delta R.T. 0.012 min

Lab File: VN085862.D

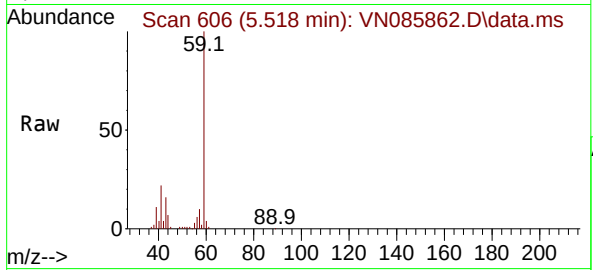
Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050



Tgt Ion: 59 Resp: 14055

Ion Ratio Lower Upper

59 100

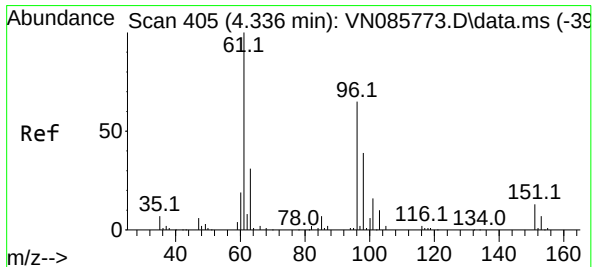
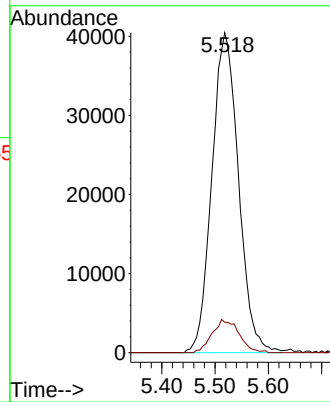
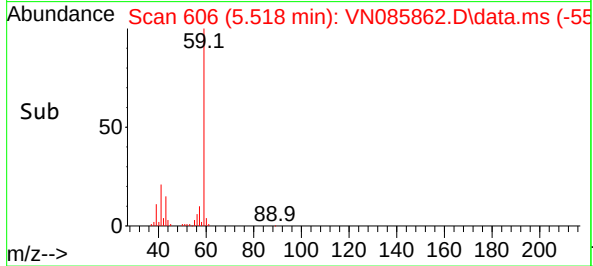
57 10.5 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#12

1,1-Dichloroethene

Concen: 46.868 ug/l

RT: 4.336 min Scan# 405

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

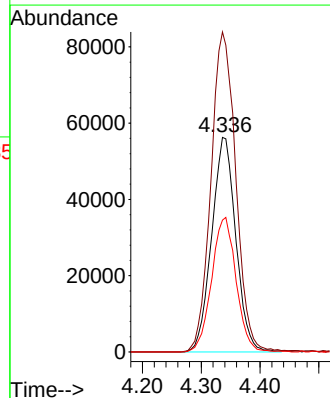
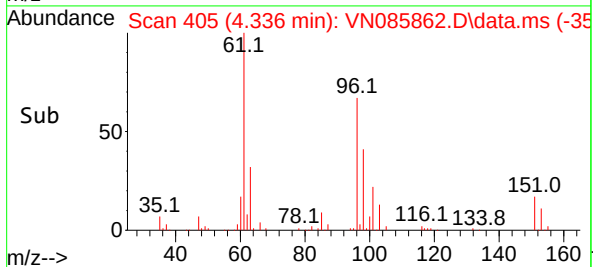
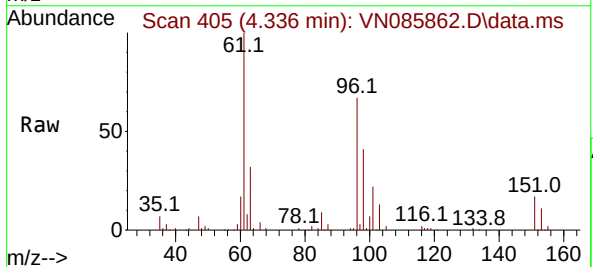
Tgt Ion: 96 Resp: 160535

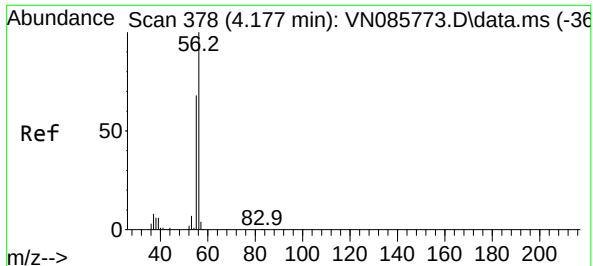
Ion Ratio Lower Upper

96 100

61 149.1 123.3 184.9

98 61.4 48.6 72.8





#13

Acrolein

Concen: 265.790 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 196300

Ion Ratio Lower Upper

56 100

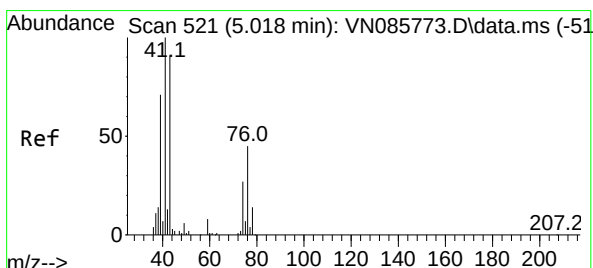
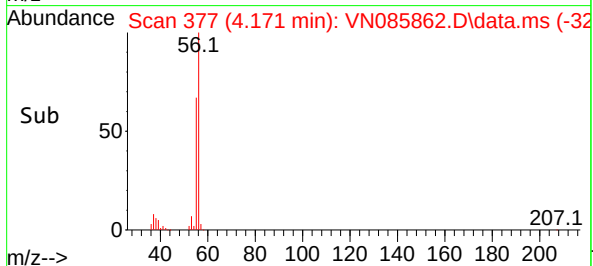
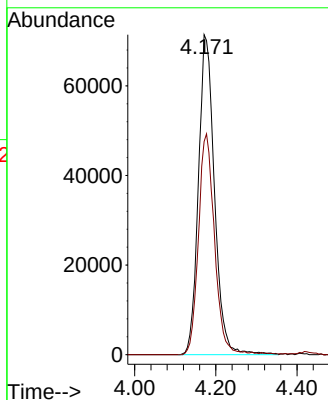
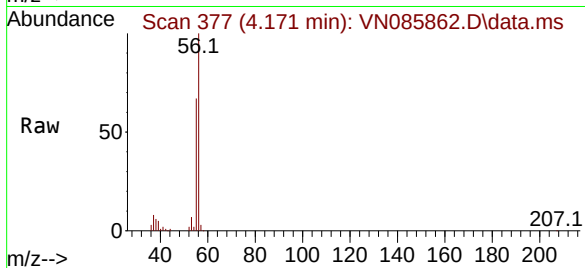
55 68.8 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#14

Allyl chloride

Concen: 44.141 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

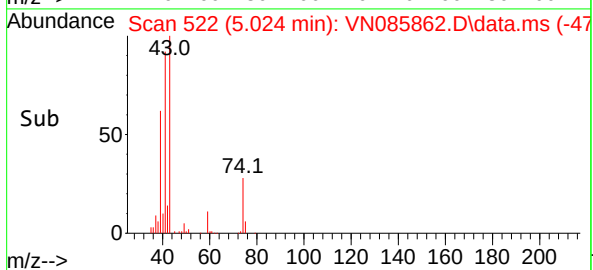
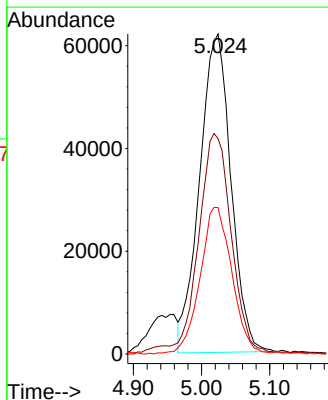
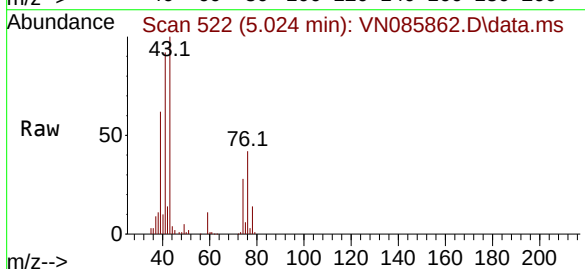
Tgt Ion: 41 Resp: 198507

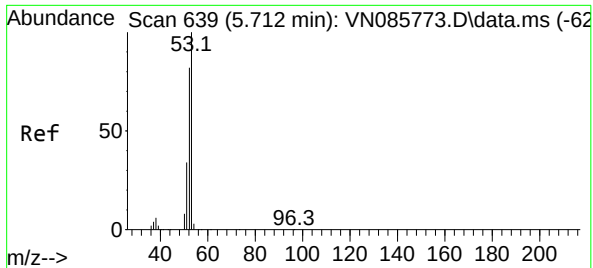
Ion Ratio Lower Upper

41 100

39 73.5 57.4 86.2

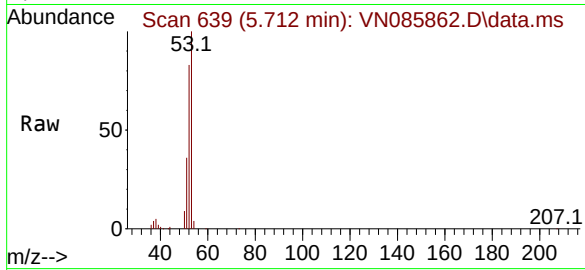
76 46.7 36.2 54.2





#15
Acrylonitrile
Concen: 258.588 ug/l
RT: 5.712 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

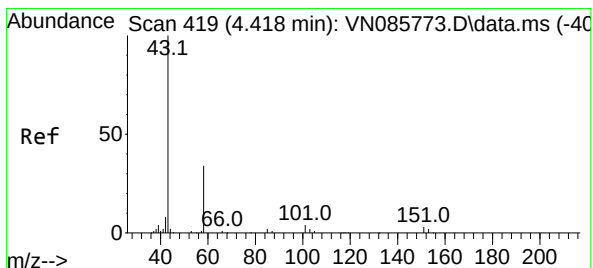
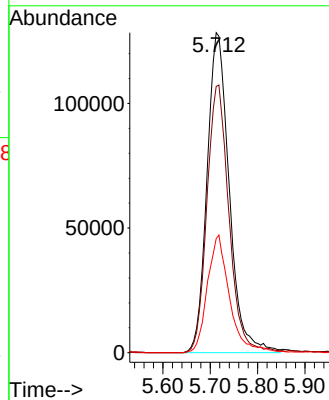
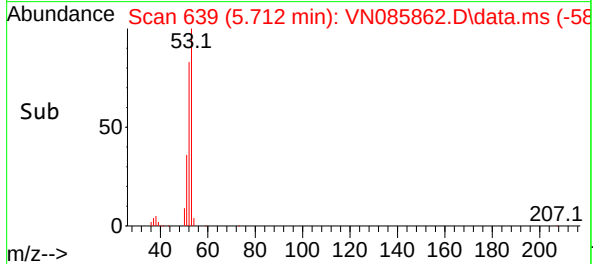
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



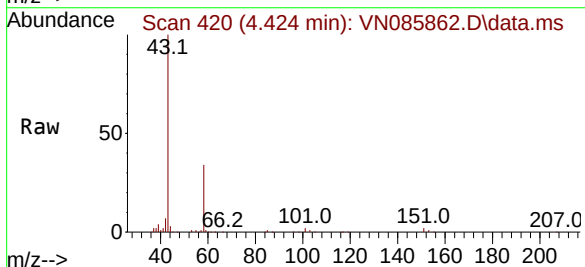
Tgt Ion: 53 Resp: 41868
Ion Ratio Lower Upper
53 100
52 83.2 65.8 98.6
51 36.7 28.6 42.8

Manual Integrations
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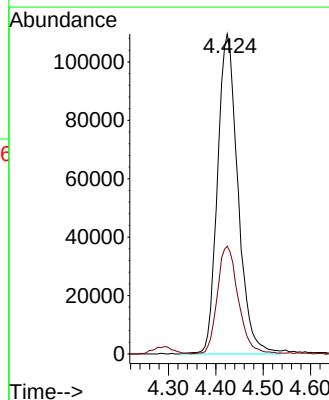
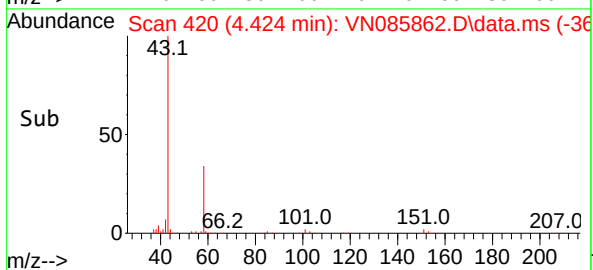
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

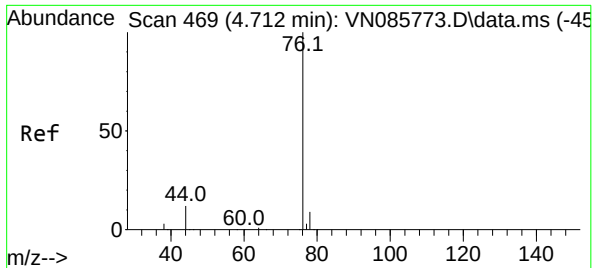


#16
Acetone
Concen: 256.442 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



Tgt Ion: 43 Resp: 328581
Ion Ratio Lower Upper
43 100
58 33.4 27.5 41.3





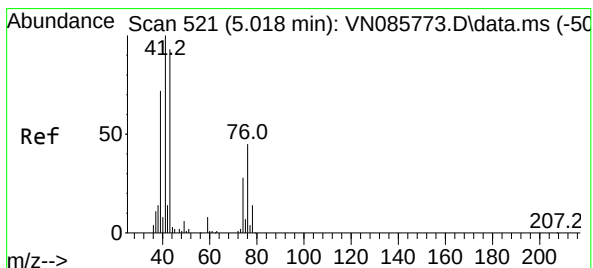
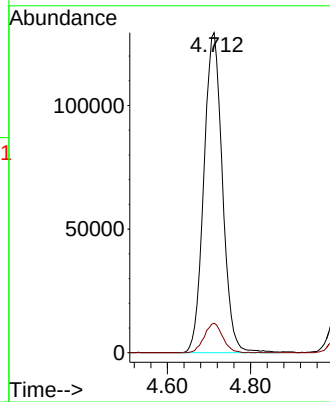
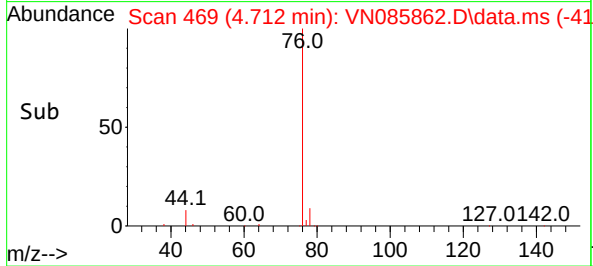
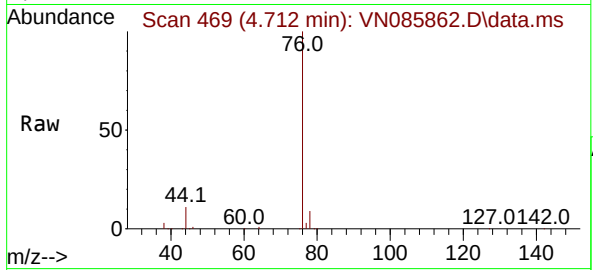
#17
Carbon Disulfide
Concen: 39.606 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 402059
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0

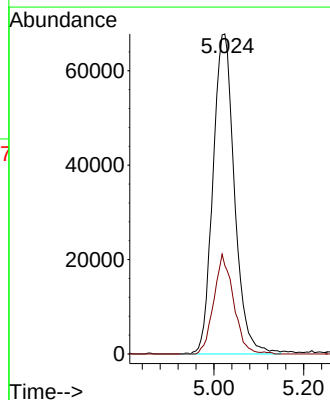
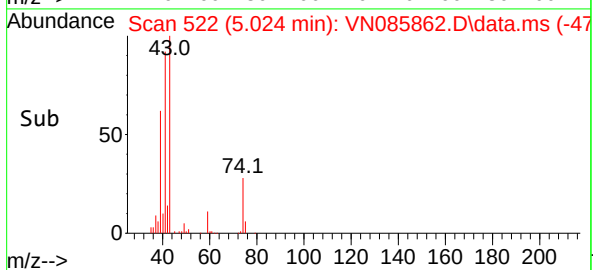
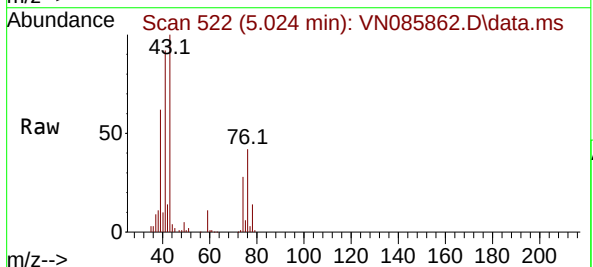
Manual Integrations
APPROVED

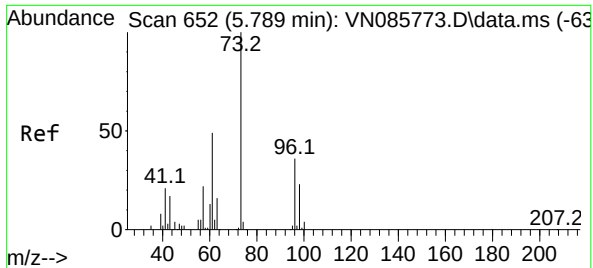
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#18
Methyl Acetate
Concen: 51.202 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 43 Resp: 225651
Ion Ratio Lower Upper
43 100
74 28.5 22.2 33.4





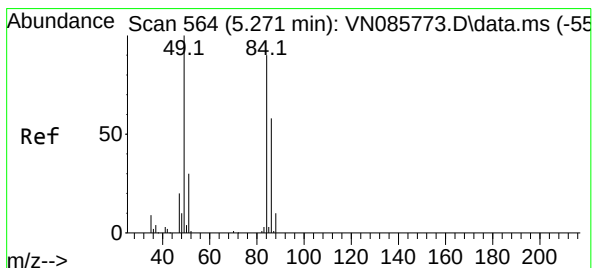
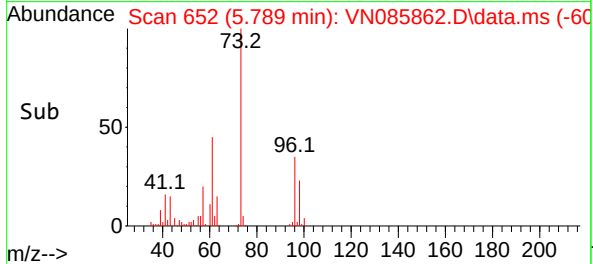
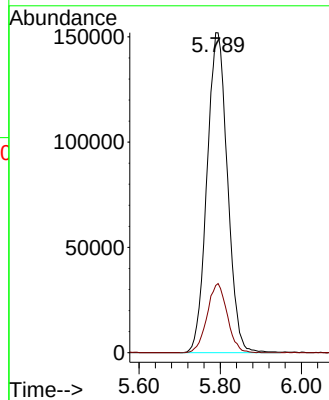
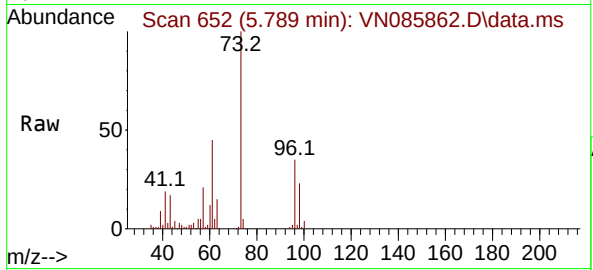
#19
Methyl tert-butyl Ether
Concen: 52.233 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 531640
Ion Ratio Lower Upper
73 100
57 21.0 17.6 26.4

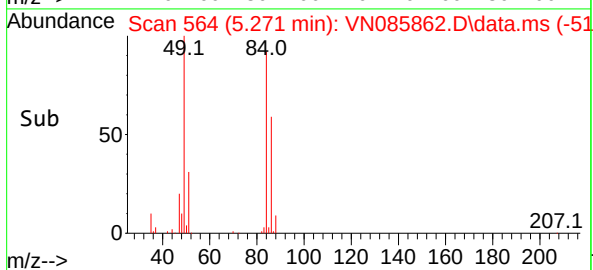
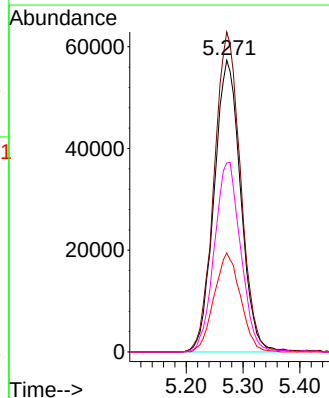
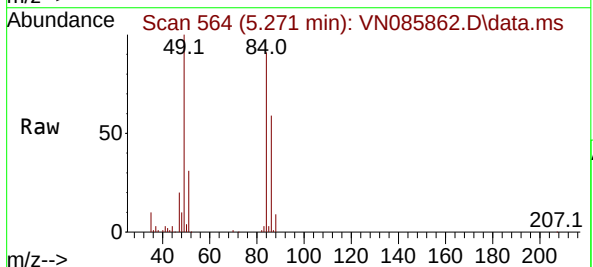
Manual Integrations
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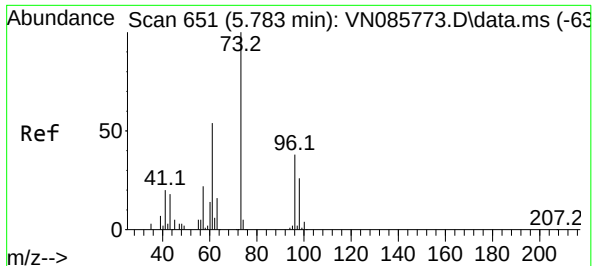
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#20
Methylene Chloride
Concen: 44.984 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

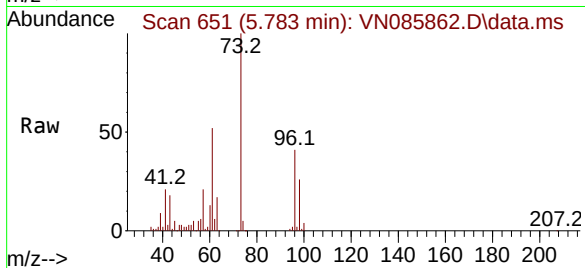
Tgt Ion: 84 Resp: 185360
Ion Ratio Lower Upper
84 100
49 109.7 88.4 132.6
51 33.9 26.6 40.0
86 64.8 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 45.768 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

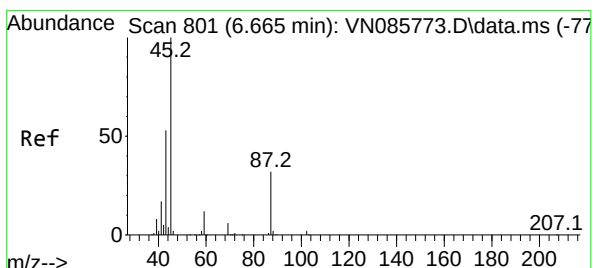
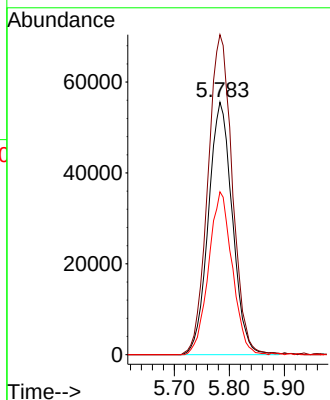
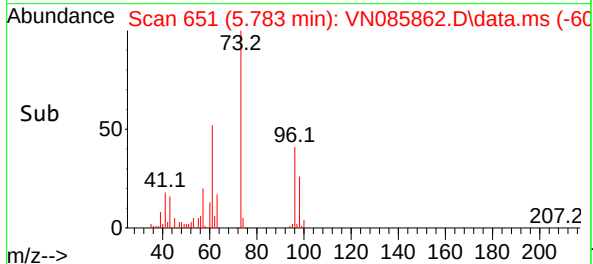
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 16880
Ion Ratio Lower Upper
96 100
61 126.7 112.6 168.8
98 64.5 53.3 79.9

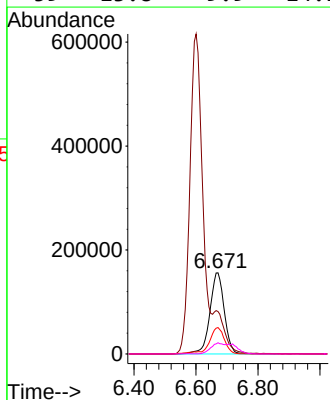
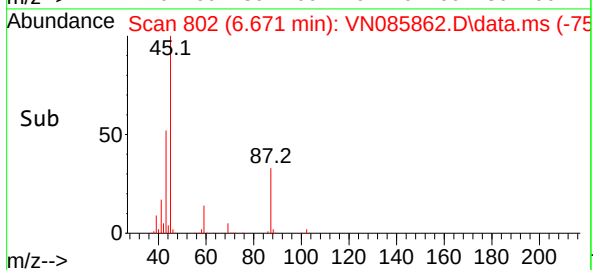
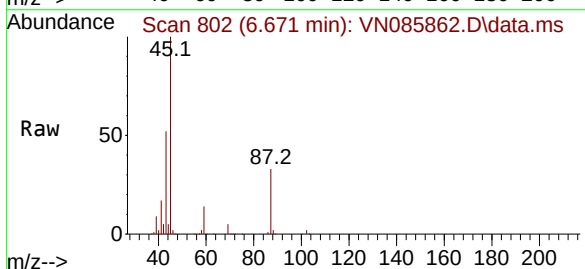
Manual Integrations
APPROVED

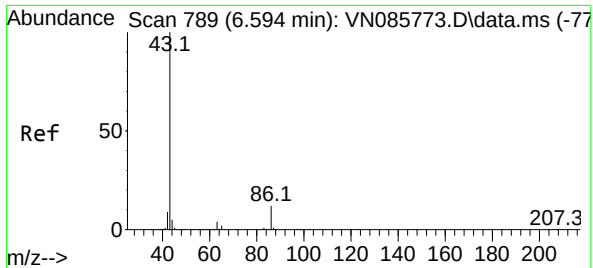
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#22
Diisopropyl ether
Concen: 49.509 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 45 Resp: 503092
Ion Ratio Lower Upper
45 100
43 51.6 42.6 64.0
87 32.7 25.8 38.8
59 13.8 9.9 14.9





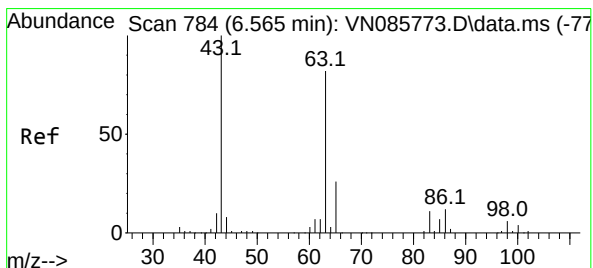
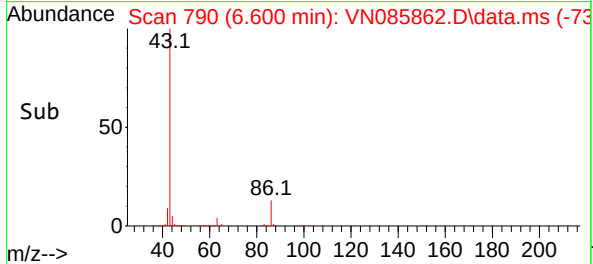
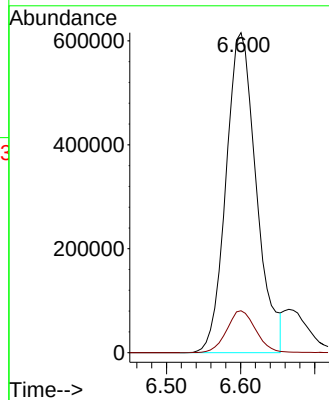
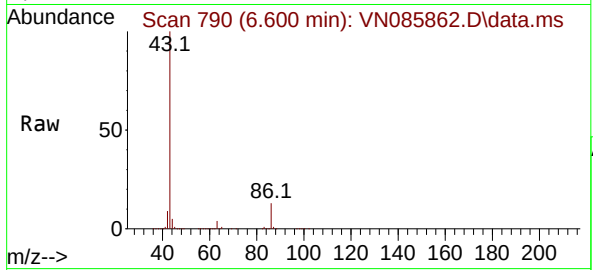
#23
Vinyl Acetate
Concen: 251.472 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 174967
Ion Ratio Lower Upper
43 100
86 13.1 9.8 14.8

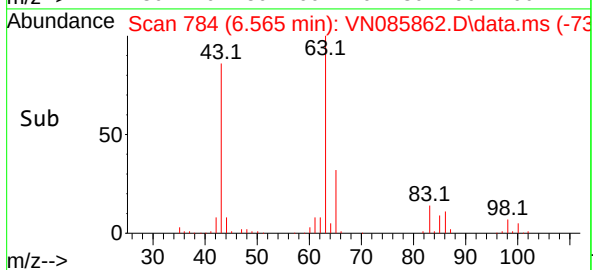
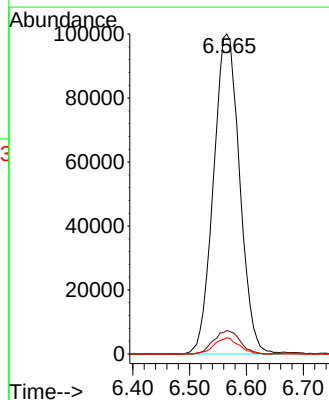
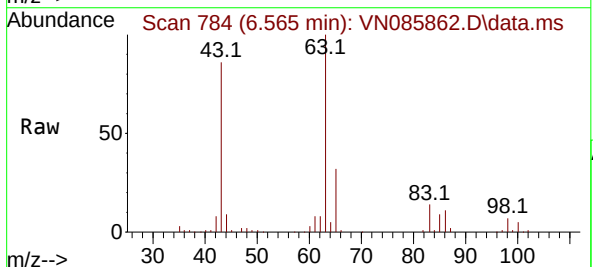
Manual Integrations
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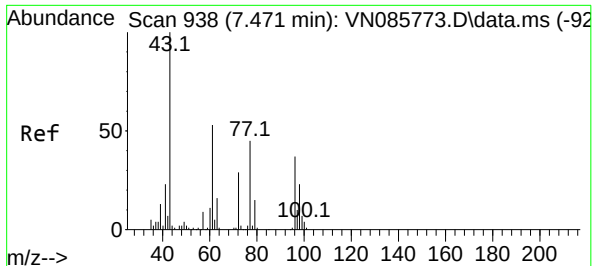
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#24
1,1-Dichloroethane
Concen: 46.236 ug/l
RT: 6.565 min Scan# 784
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 63 Resp: 319388
Ion Ratio Lower Upper
63 100
98 7.3 3.5 10.4
100 5.1 2.4 7.2





#25

2-Butanone

Concen: 272.647 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 51395

Ion Ratio Lower Upper

43 100

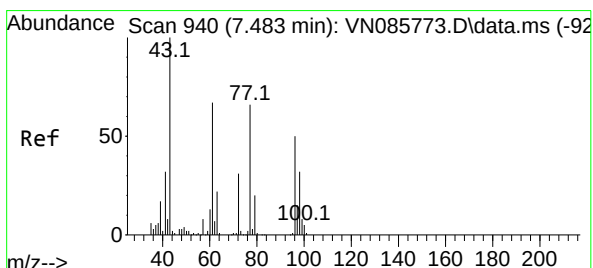
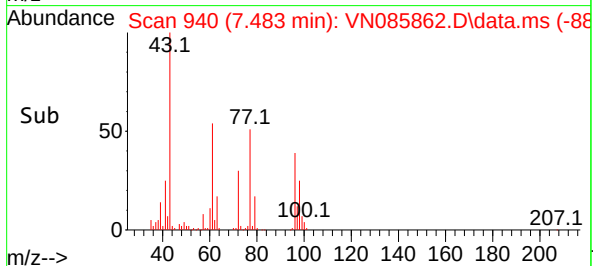
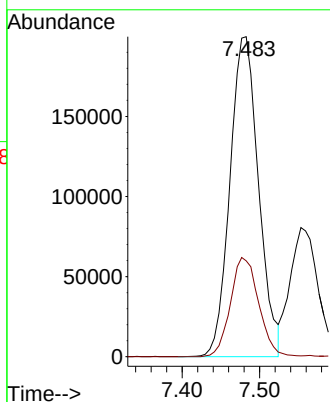
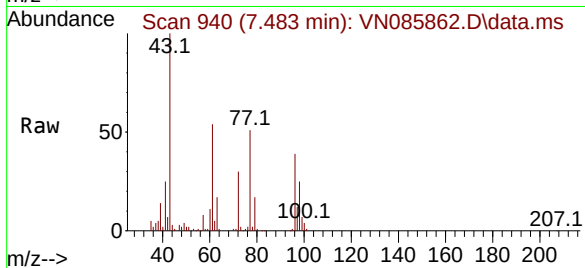
72 29.9 23.6 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#26

2,2-Dichloropropane

Concen: 47.094 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085862.D

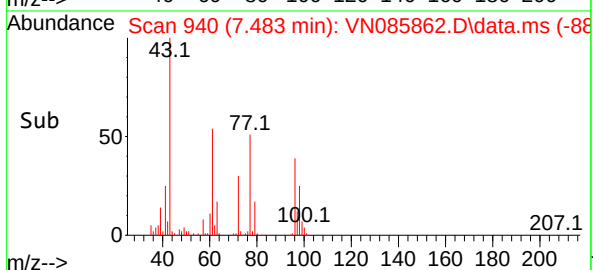
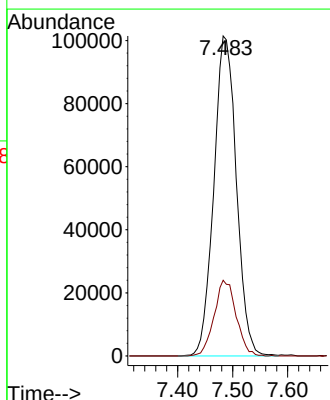
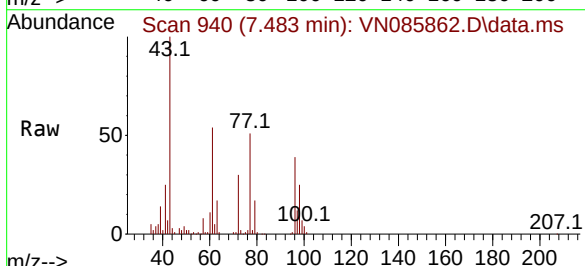
Acq: 26 Feb 2025 10:32

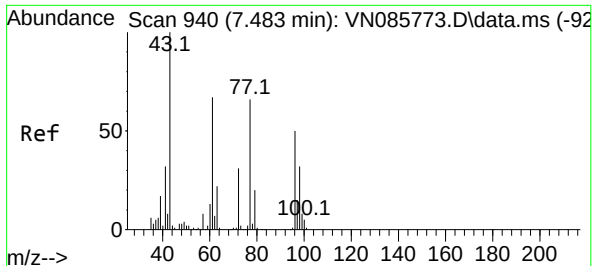
Tgt Ion: 77 Resp: 289279

Ion Ratio Lower Upper

77 100

97 23.0 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 47.145 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 20161

Ion Ratio Lower Upper

96 100

61 140.6 0.0 280.6

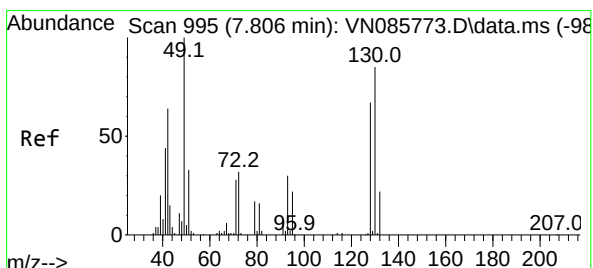
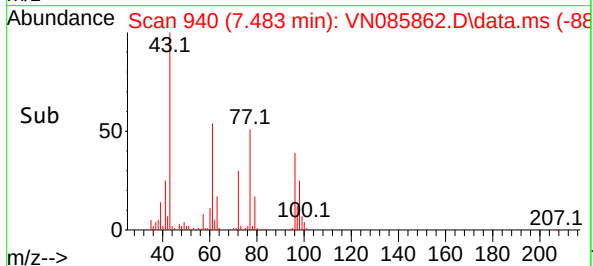
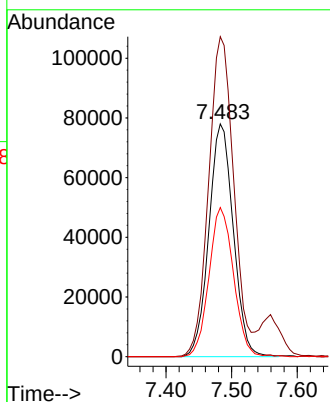
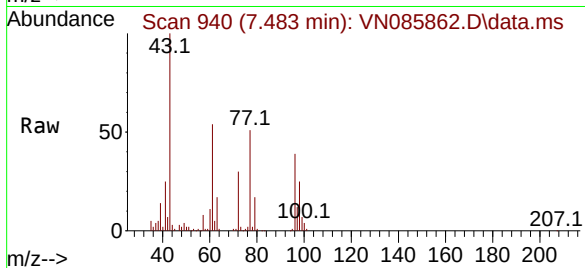
98 64.5 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#28

Bromochloromethane

Concen: 45.130 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

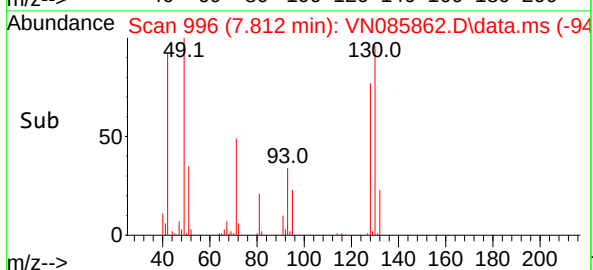
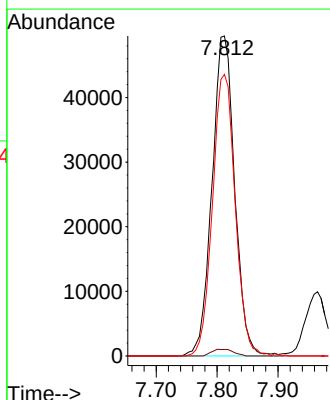
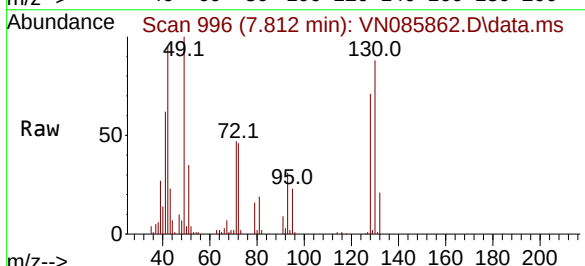
Tgt Ion: 49 Resp: 128132

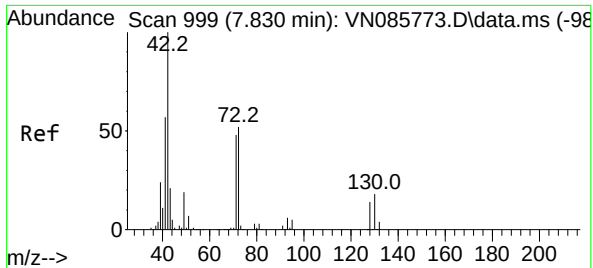
Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.8

130 88.0 68.0 102.0





#29

Tetrahydrofuran

Concen: 277.958 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 338340

Ion Ratio Lower Upper

42 100

72 51.6 40.0 60.0

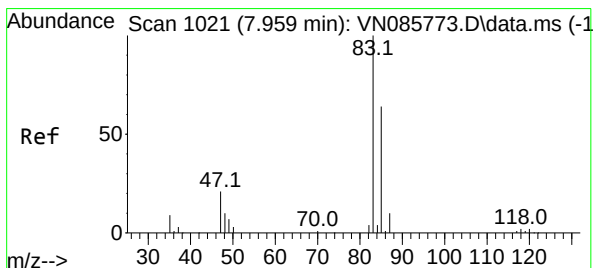
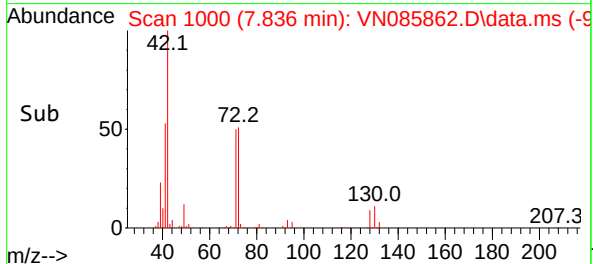
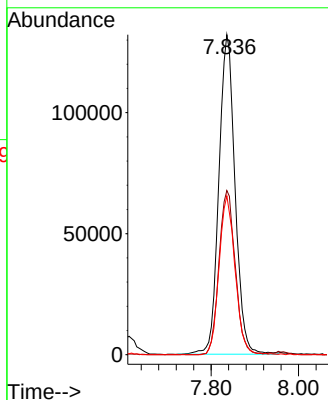
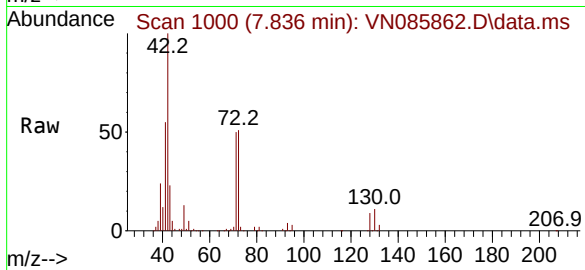
71 49.1 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#30

Chloroform

Concen: 46.953 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085862.D

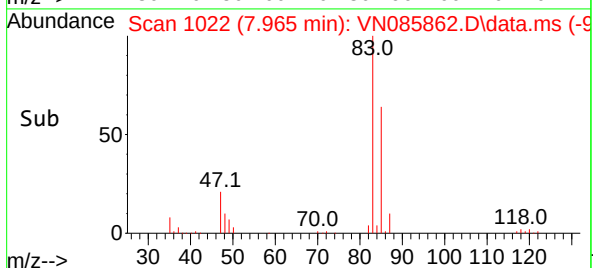
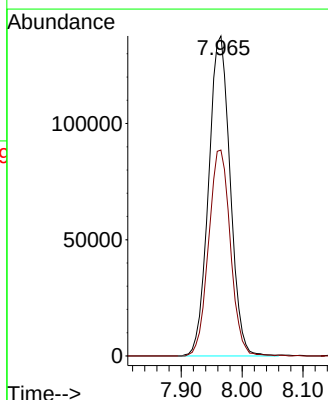
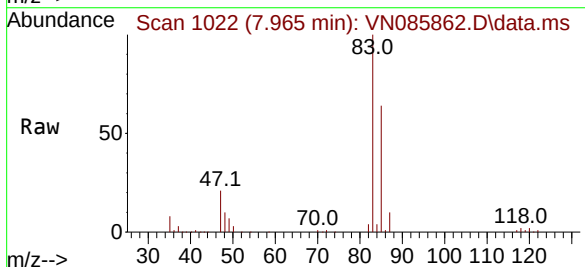
Acq: 26 Feb 2025 10:32

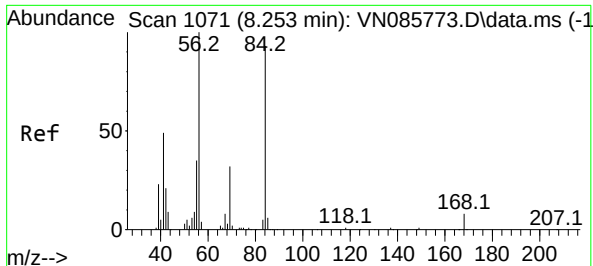
Tgt Ion: 83 Resp: 338948

Ion Ratio Lower Upper

83 100

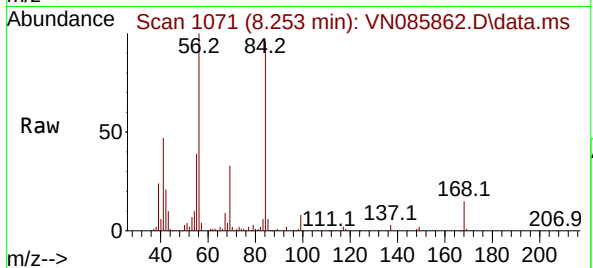
85 64.3 50.9 76.3





#31
Cyclohexane
Concen: 41.631 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

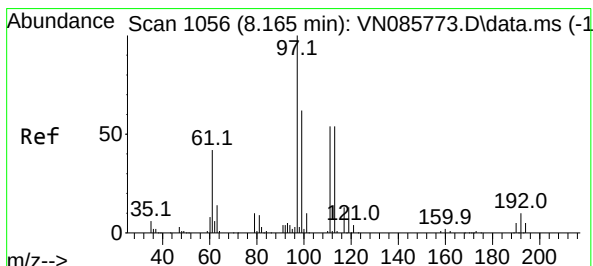
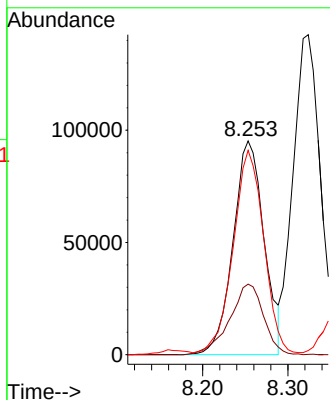
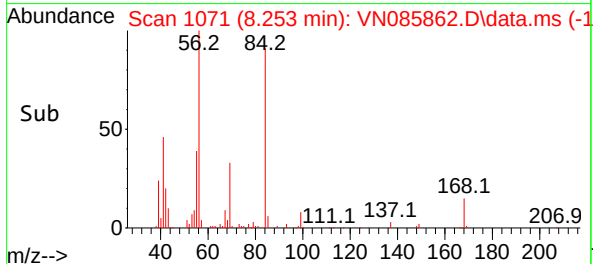
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 24078
Ion Ratio Lower Upper
56 100
69 33.0 25.8 38.6
84 93.7 74.5 111.7

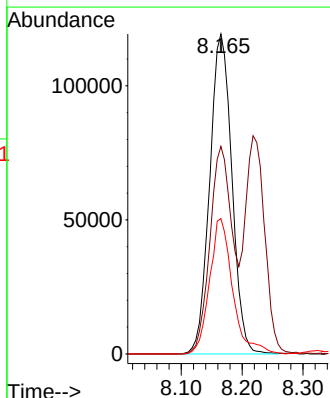
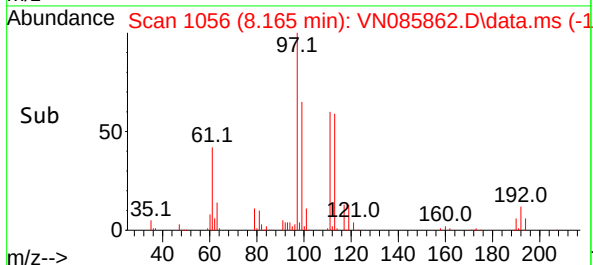
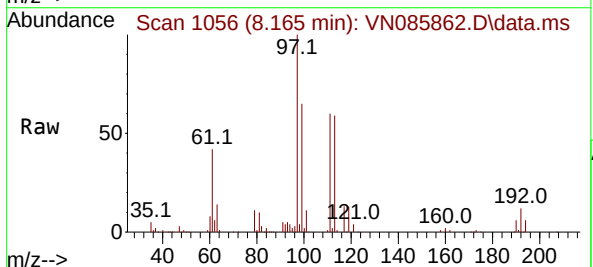
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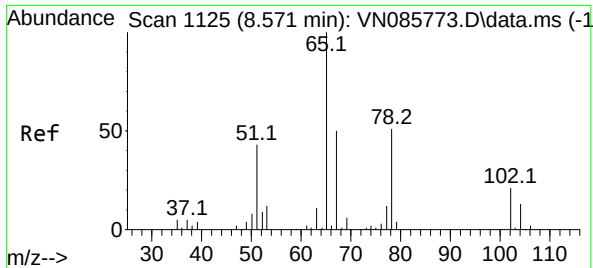
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#32
1,1,1-Trichloroethane
Concen: 47.064 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 97 Resp: 302193
Ion Ratio Lower Upper
97 100
99 65.7 50.4 75.6
61 44.0 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 49.374 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 19993

Ion Ratio Lower Upper

65 100

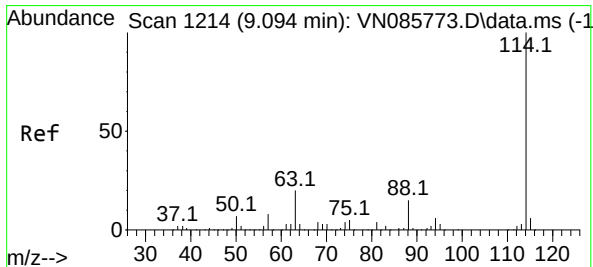
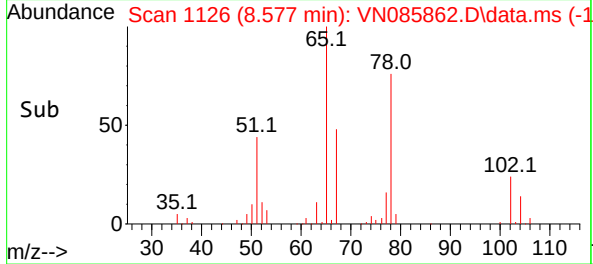
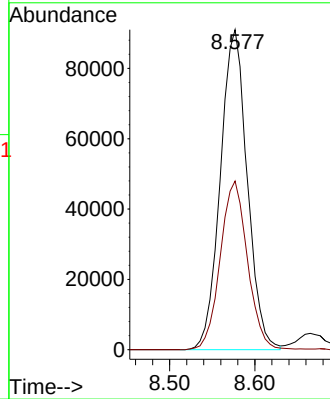
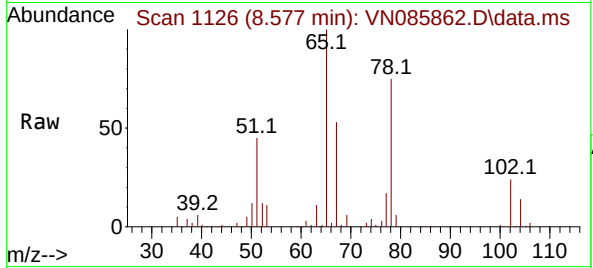
67 53.4 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

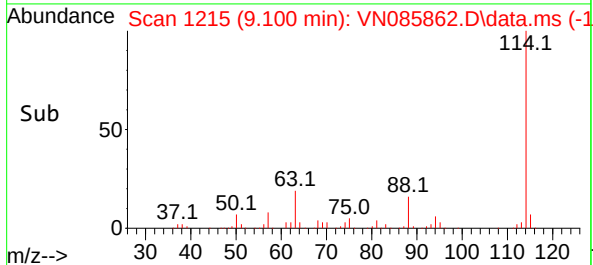
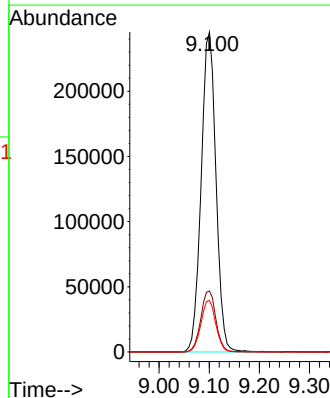
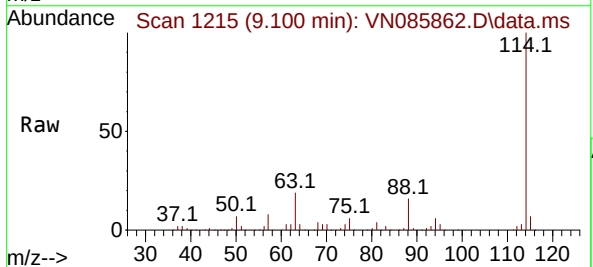
Tgt Ion:114 Resp: 503422

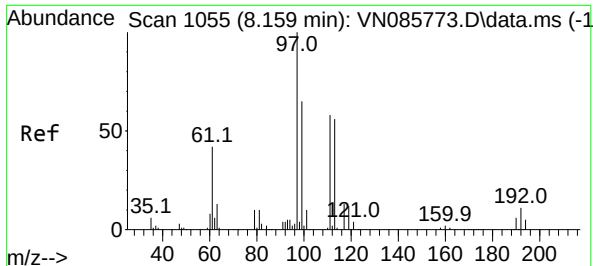
Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.2

88 16.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 52.199 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

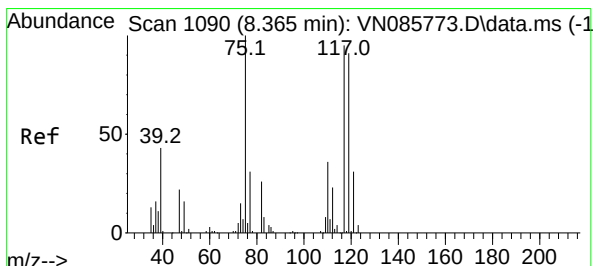
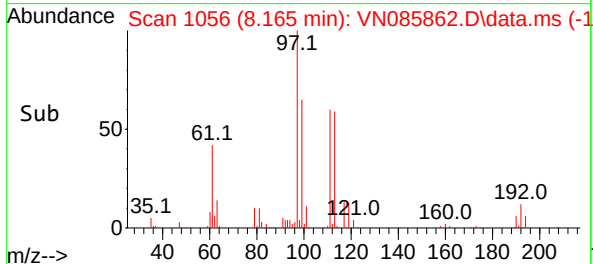
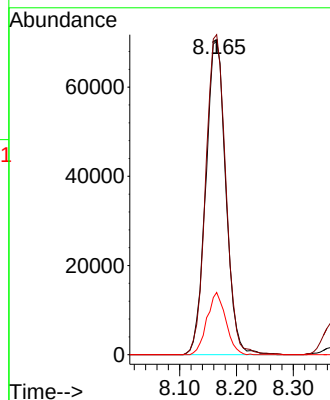
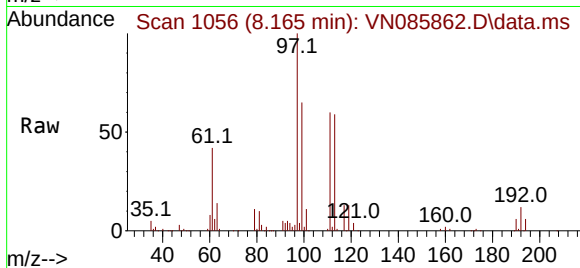
Tgt Ion:	113	Resp:	17195
Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	18.7	14.7	22.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#36

1,1-Dichloropropene

Concen: 48.792 ug/l

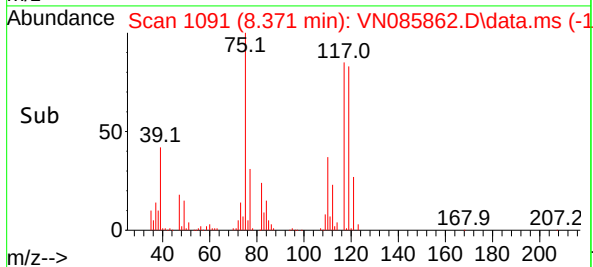
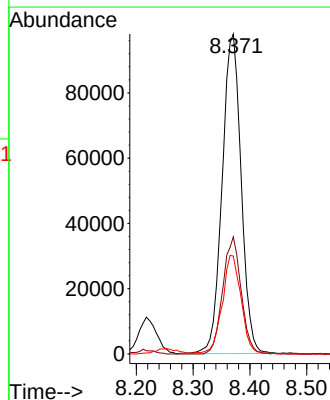
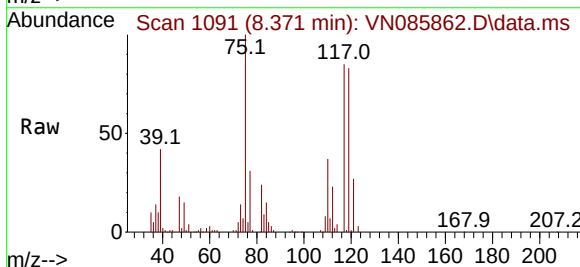
RT: 8.371 min Scan# 1091

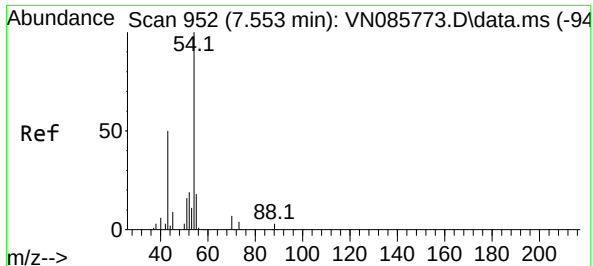
Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Tgt Ion:	75	Resp:	227474
Ion	Ratio	Lower	Upper
75	100		
110	35.4	17.3	52.0
77	30.8	24.6	37.0





#37

Ethyl Acetate

Concen: 54.442 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 20887

Ion Ratio Lower Upper

43 100

61 14.1 12.2 18.2

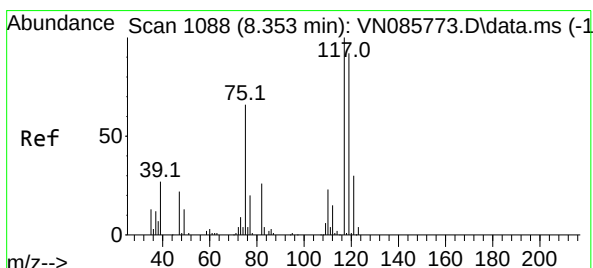
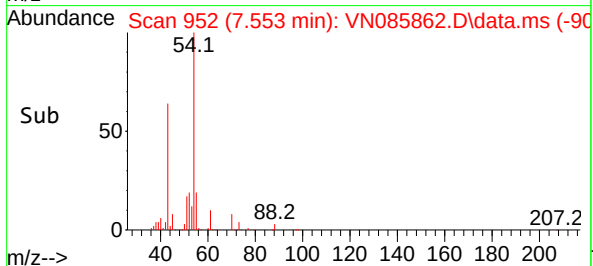
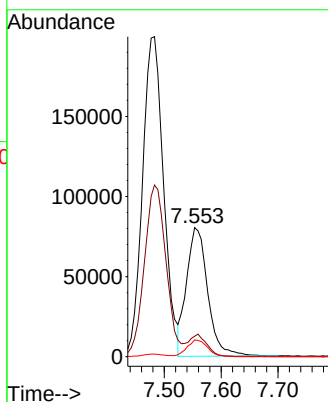
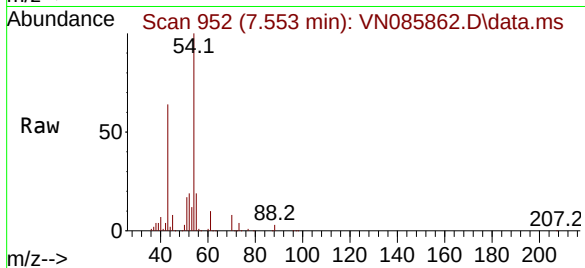
70 12.5 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#38

Carbon Tetrachloride

Concen: 48.556 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

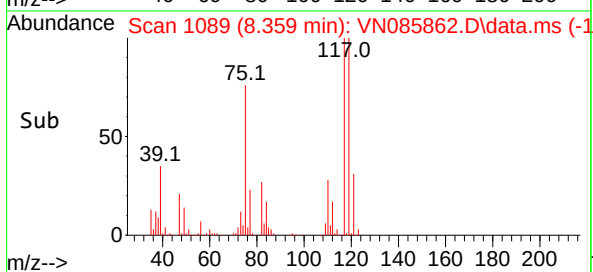
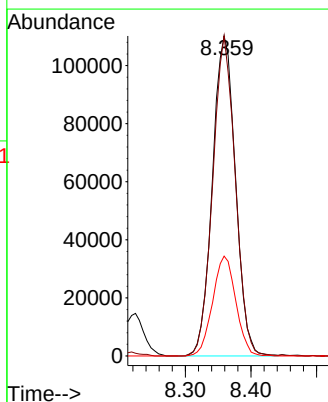
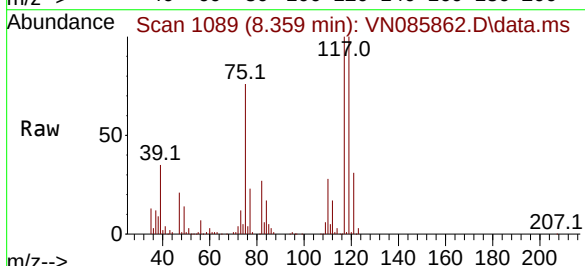
Tgt Ion:117 Resp: 268978

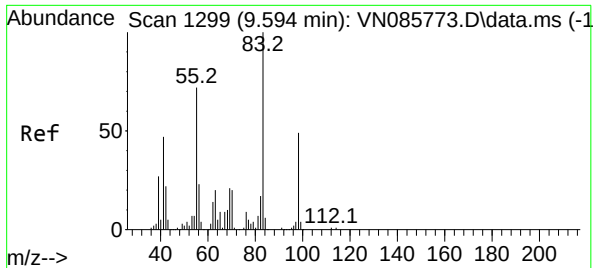
Ion Ratio Lower Upper

117 100

119 100.0 73.8 110.6

121 31.2 24.3 36.5





#39

Methylcyclohexane

Concen: 48.357 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 221479

Ion Ratio Lower Upper

83 100

55 72.5 57.5 86.3

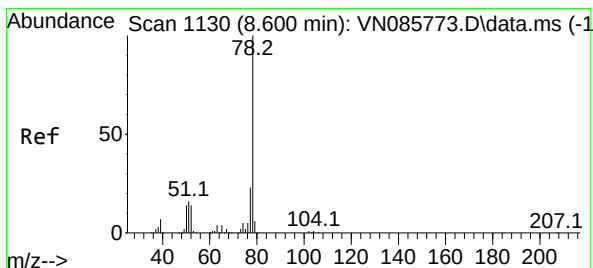
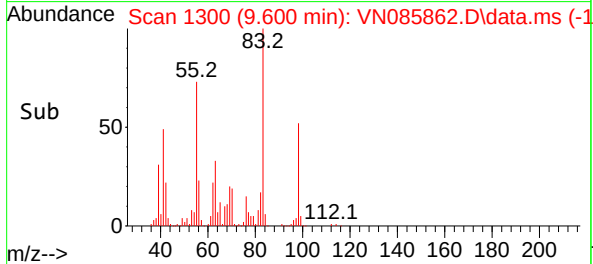
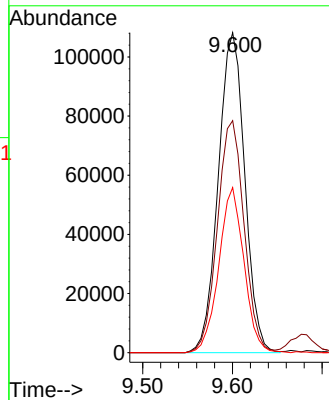
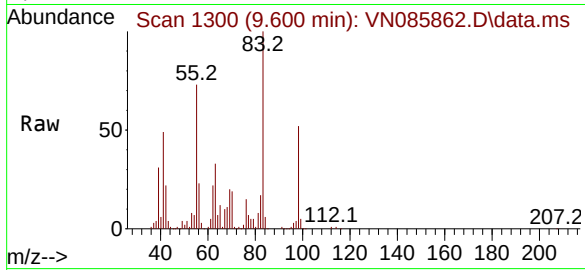
98 51.6 39.2 58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#40

Benzene

Concen: 47.961 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085862.D

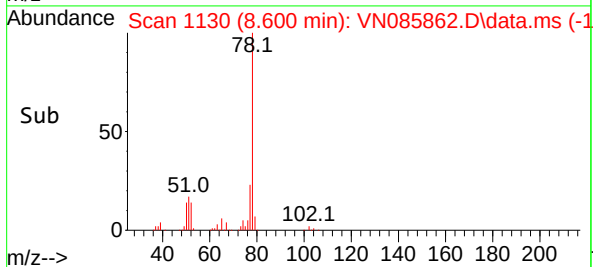
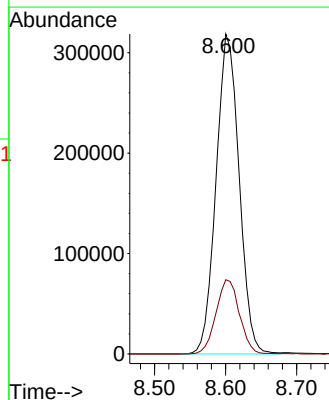
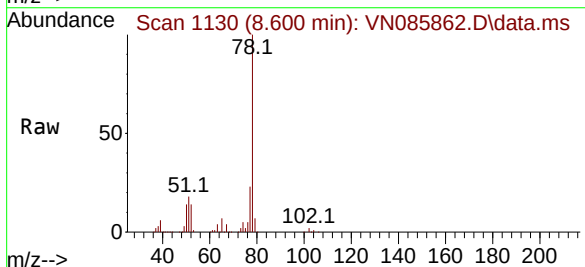
Acq: 26 Feb 2025 10:32

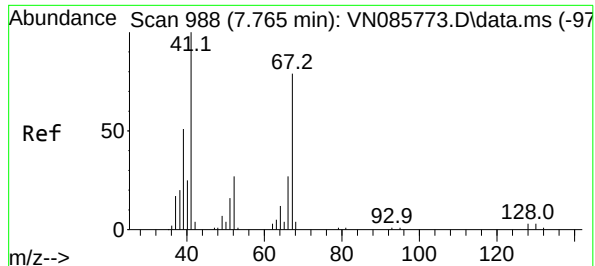
Tgt Ion: 78 Resp: 716647

Ion Ratio Lower Upper

78 100

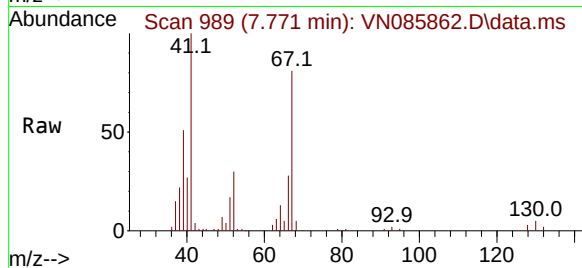
77 23.2 18.3 27.5





#41
Methacrylonitrile
Concen: 54.860 ug/l
RT: 7.771 min Scan# 911
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

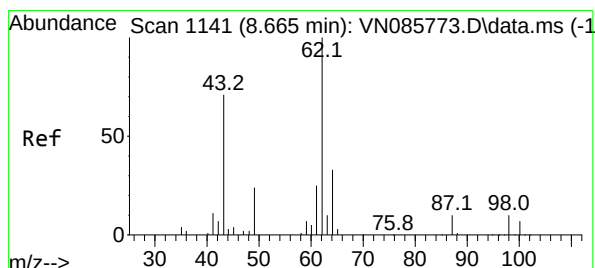
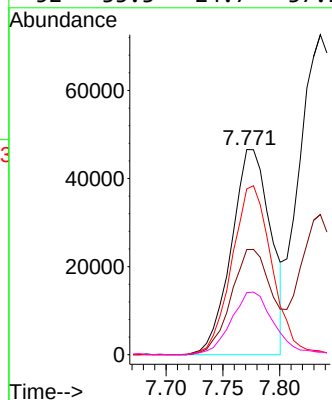
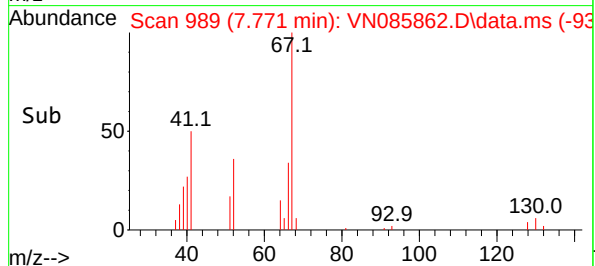
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 11251
Ion Ratio Lower Upper
41 100
39 55.3 42.0 63.0
67 84.3 64.2 96.4
52 33.3 24.7 37.1

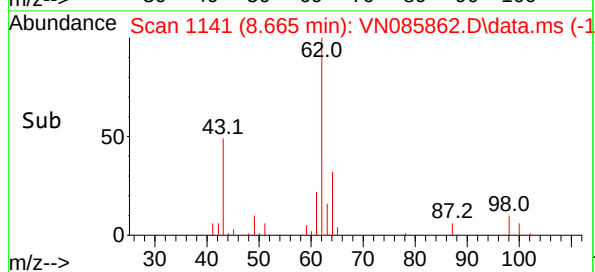
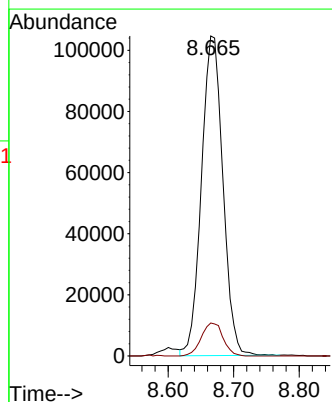
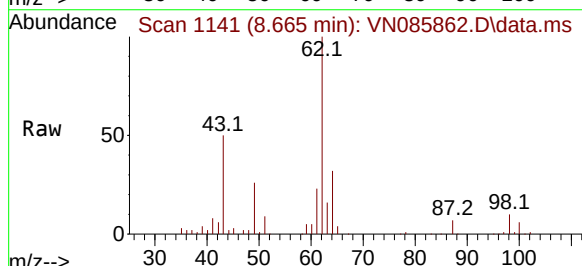
Manual Integrations
APPROVED

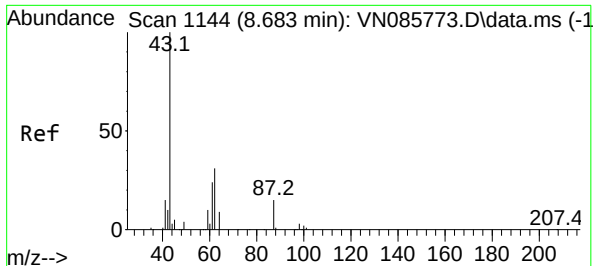
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#42
1,2-Dichloroethane
Concen: 48.849 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 62 Resp: 237756
Ion Ratio Lower Upper
62 100
98 10.5 0.0 19.6





#43

Isopropyl Acetate

Concen: 50.669 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 34112

Ion Ratio Lower Upper

43

100

61

87

29.4

15.4

22.6

11.8

34.0

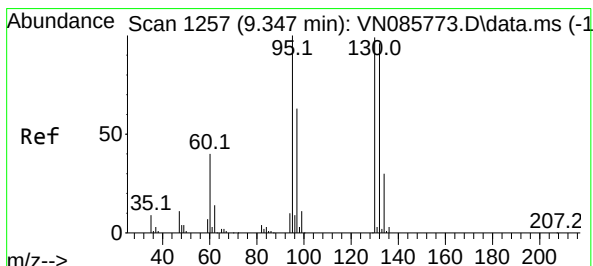
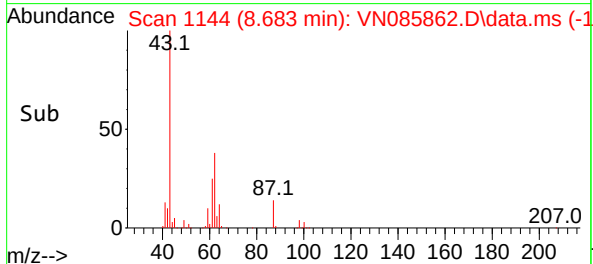
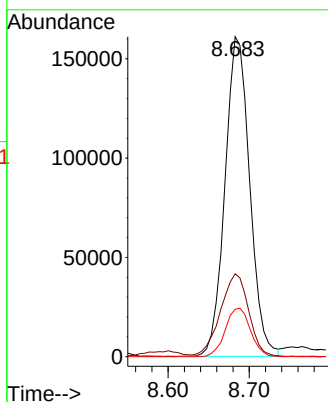
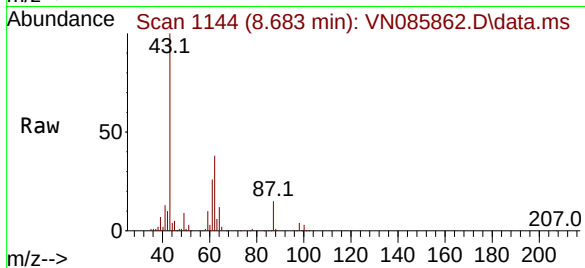
17.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#44

Trichloroethene

Concen: 47.117 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Tgt Ion:130 Resp: 172862

Ion Ratio Lower Upper

130

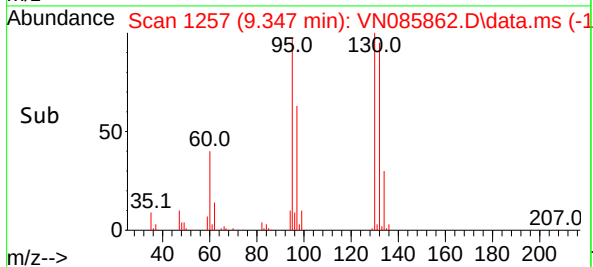
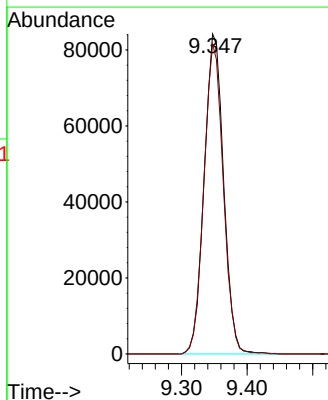
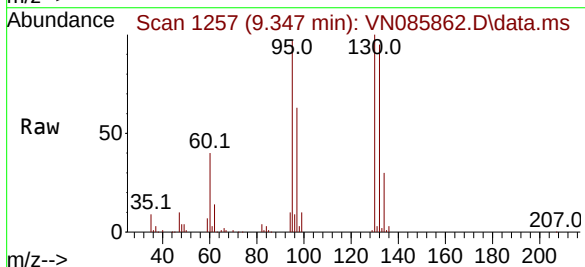
95

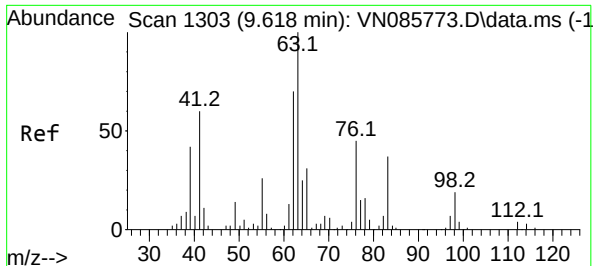
100

96.9

0.0

202.6





#45

1,2-Dichloropropane

Concen: 48.741 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 17580

Ion Ratio Lower Upper

63 100

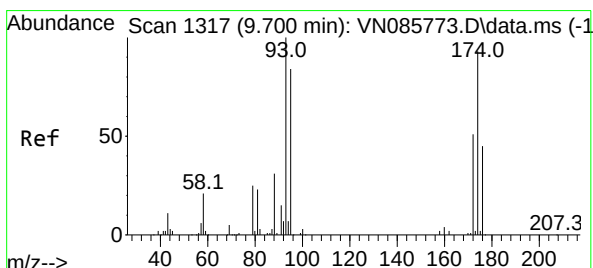
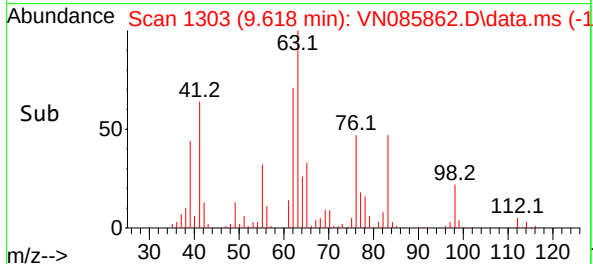
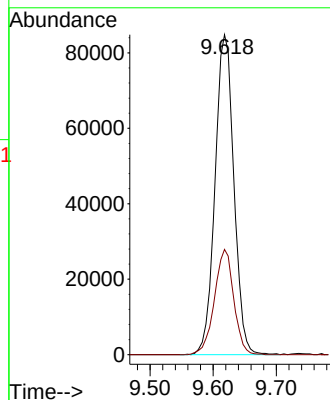
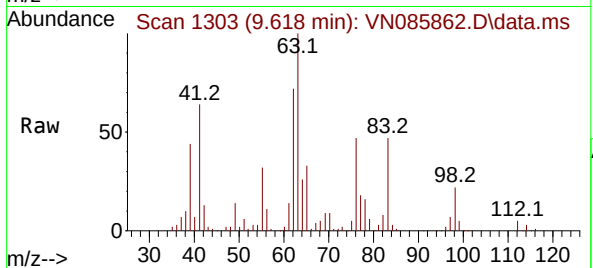
65 32.9 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#46

Dibromomethane

Concen: 49.614 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

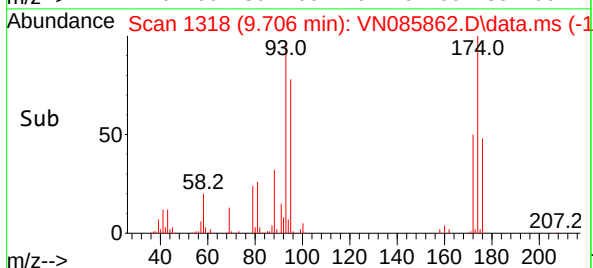
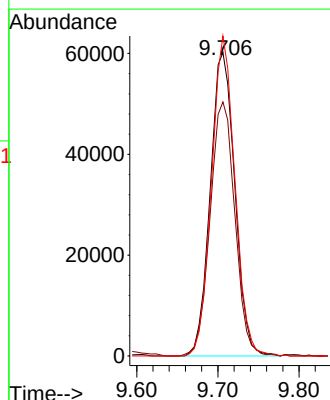
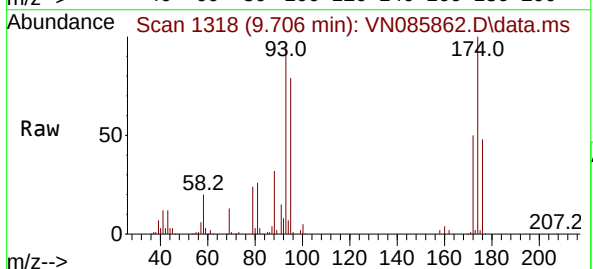
Tgt Ion: 93 Resp: 126223

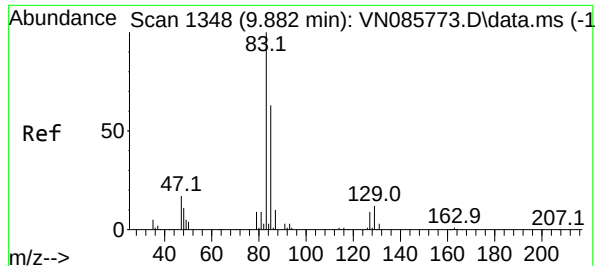
Ion Ratio Lower Upper

93 100

95 84.7 66.7 100.1

174 100.6 77.2 115.8





#47

Bromodichloromethane

Concen: 49.154 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

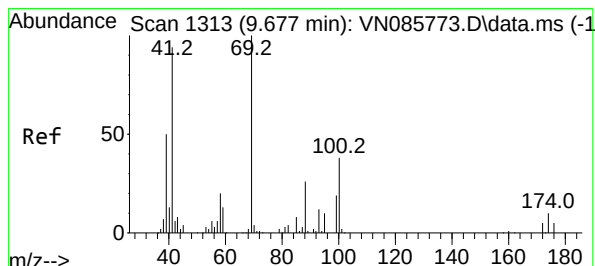
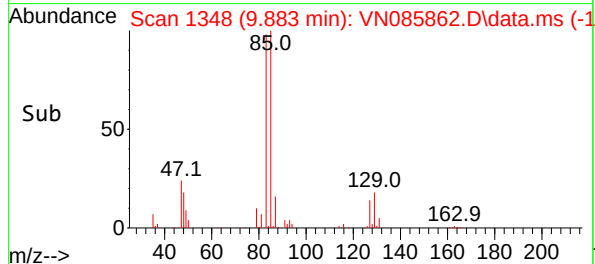
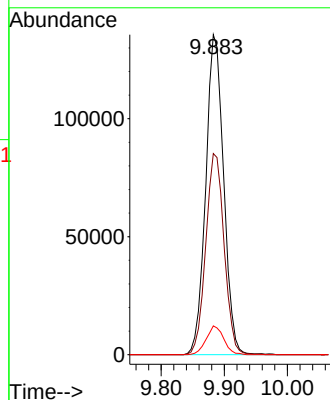
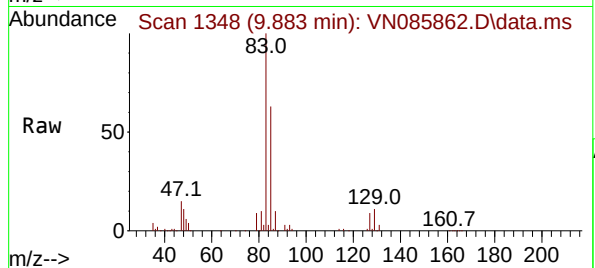
VSTDCCC050

Tgt Ion:	83	Resp:	267549
Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.5	75.7
127	9.0	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#48

Methyl methacrylate

Concen: 55.219 ug/l

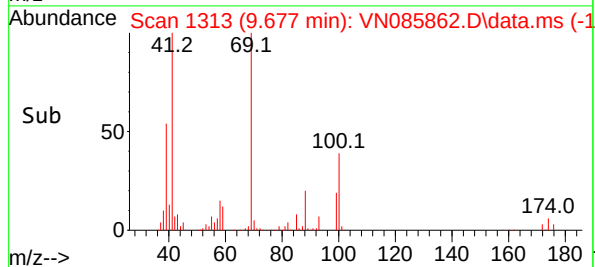
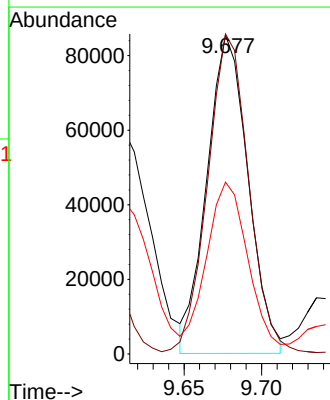
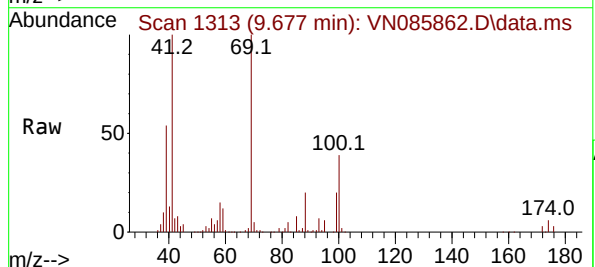
RT: 9.677 min Scan# 1313

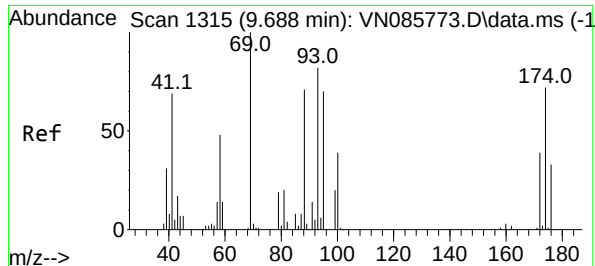
Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Tgt Ion:	41	Resp:	157337
Ion	Ratio	Lower	Upper
41	100		
69	100.6	76.0	114.0
39	55.1	42.3	63.5





#49

1,4-Dioxane

Concen: 1348.716 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 73078

Ion Ratio Lower Upper

88 100

43 22.2 18.6 27.8

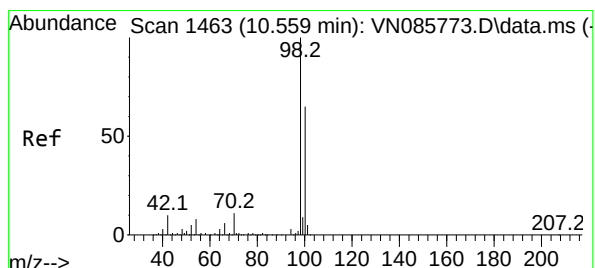
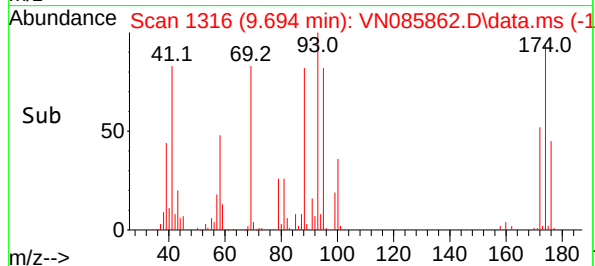
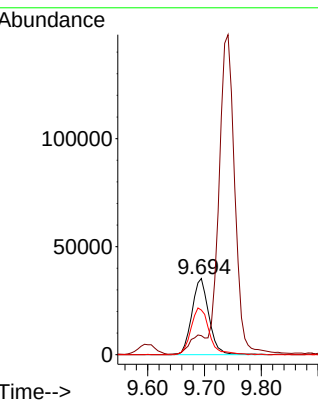
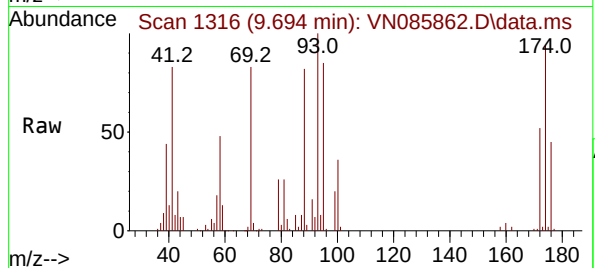
58 65.7 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#50

Toluene-d8

Concen: 52.923 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085862.D

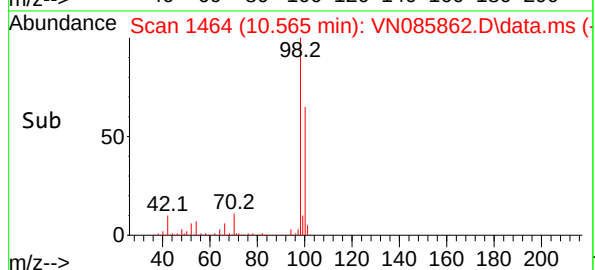
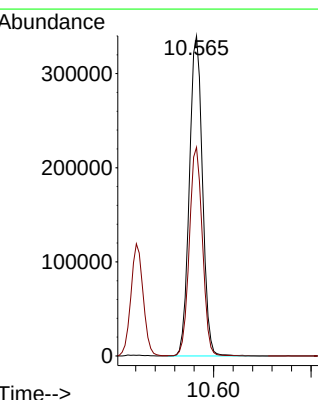
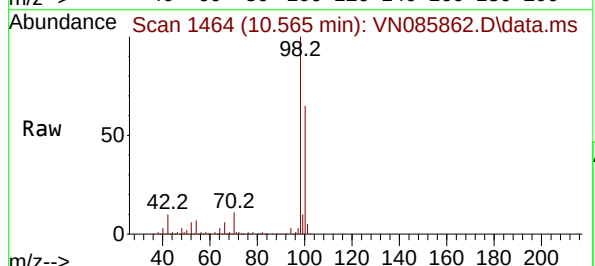
Acq: 26 Feb 2025 10:32

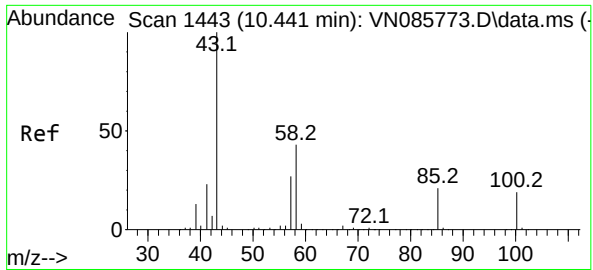
Tgt Ion: 98 Resp: 634293

Ion Ratio Lower Upper

98 100

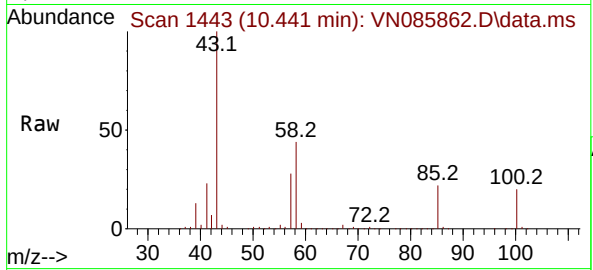
100 65.1 52.1 78.1





#51
4-Methyl-2-Pentanone
Concen: 294.439 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

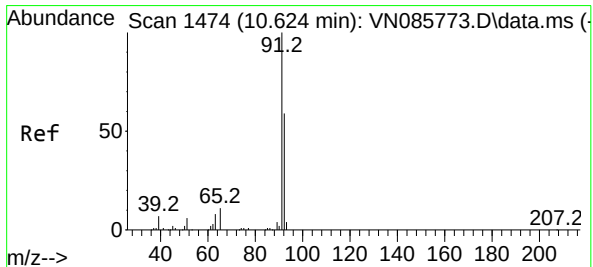
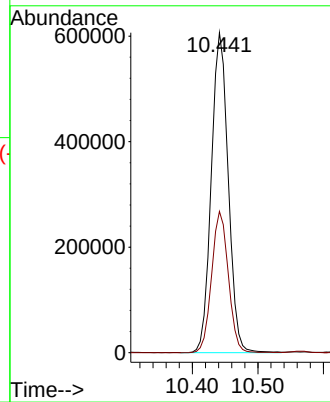
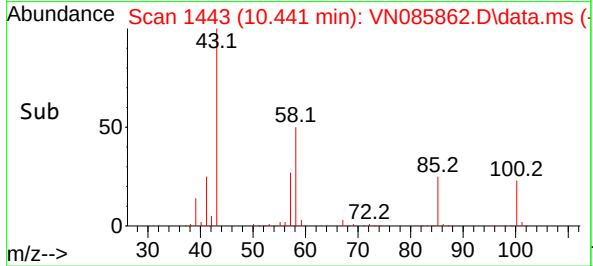
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



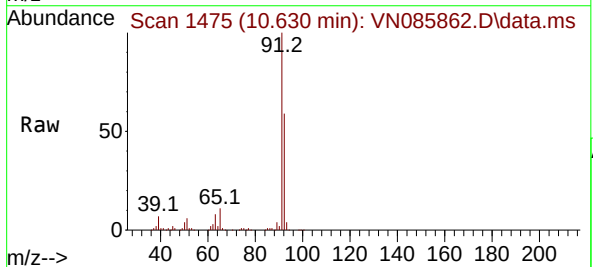
Tgt Ion: 43 Resp: 1089144
Ion Ratio Lower Upper
43 100
58 43.6 34.6 52.0

Manual Integrations
APPROVED

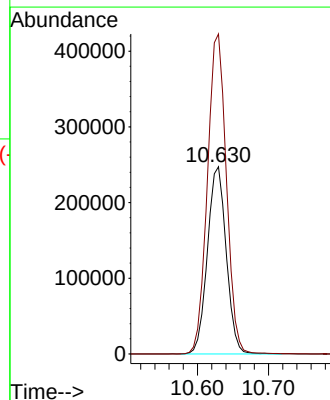
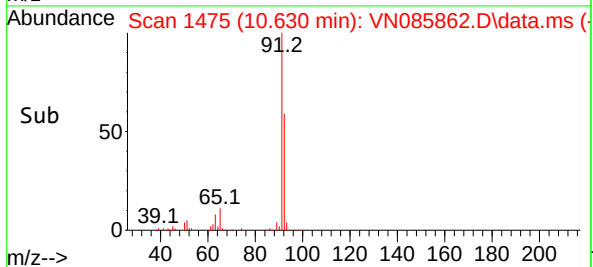
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

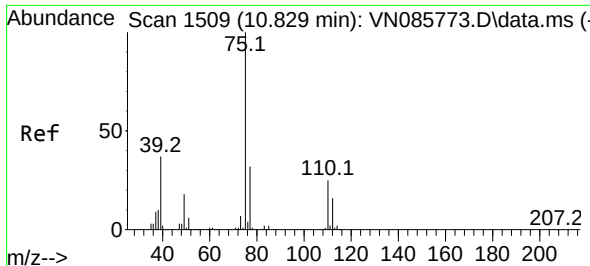


#52
Toluene
Concen: 52.028 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



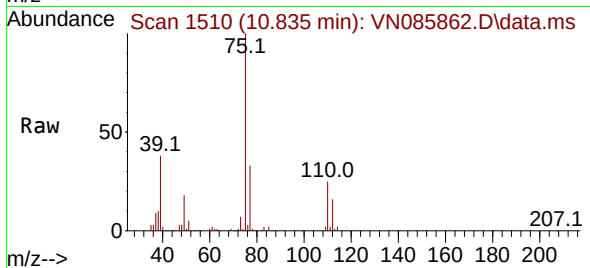
Tgt Ion: 92 Resp: 455712
Ion Ratio Lower Upper
92 100
91 172.6 136.9 205.3





#53
t-1,3-Dichloropropene
Concen: 52.451 ug/l
RT: 10.835 min Scan# 110
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

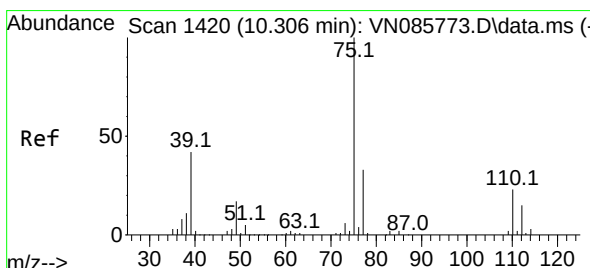
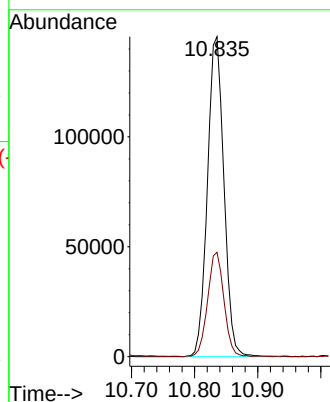
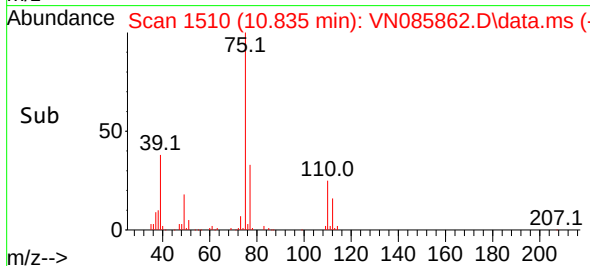
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 26399
Ion Ratio Lower Upper
75 100
77 32.6 25.4 38.0

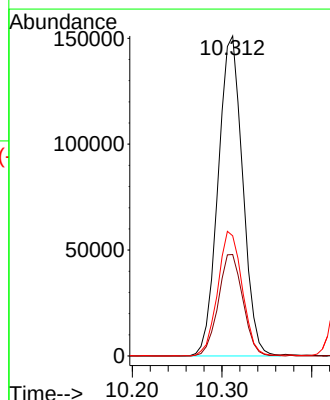
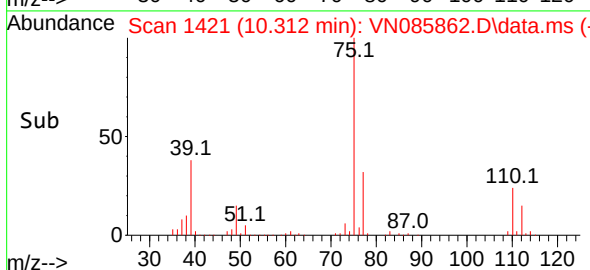
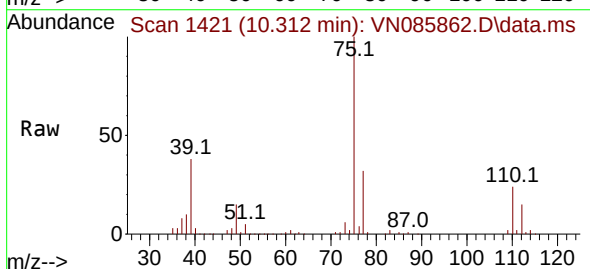
Manual Integrations
APPROVED

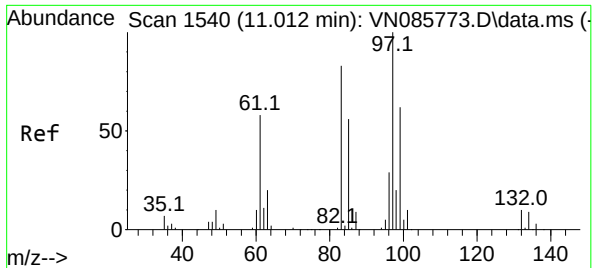
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#54
cis-1,3-Dichloropropene
Concen: 52.010 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

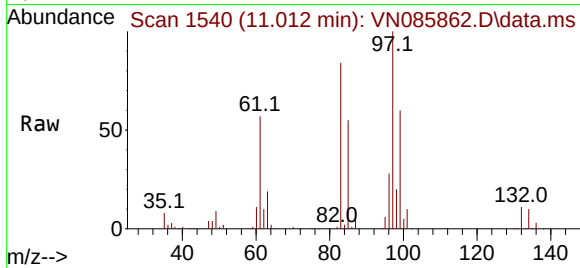
Tgt Ion: 75 Resp: 287047
Ion Ratio Lower Upper
75 100
77 31.7 26.1 39.1
39 37.6 33.4 50.0





#55
1,1,2-Trichloroethane
Concen: 51.140 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

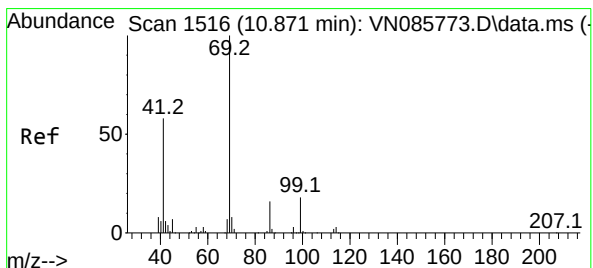
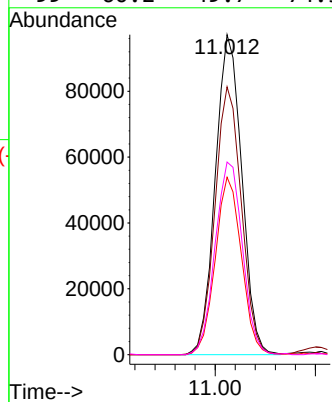
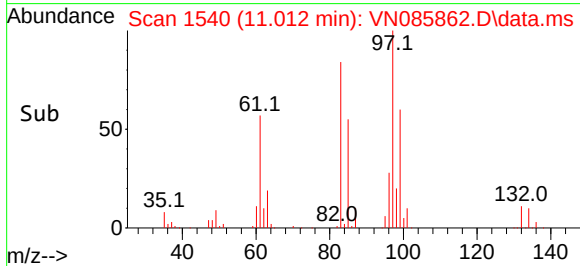
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



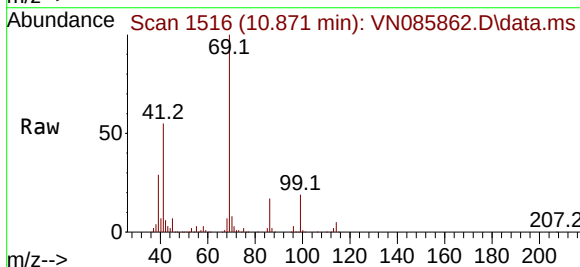
Tgt Ion: 97 Resp: 178090
Ion Ratio Lower Upper
97 100
83 83.7 66.1 99.1
85 55.4 44.7 67.1
99 60.2 49.7 74.5

Manual Integrations
APPROVED

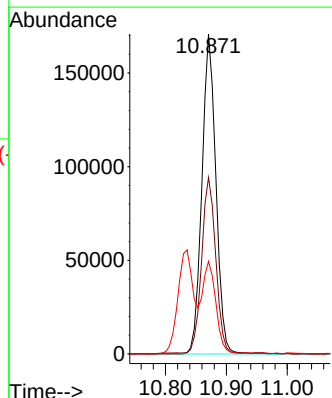
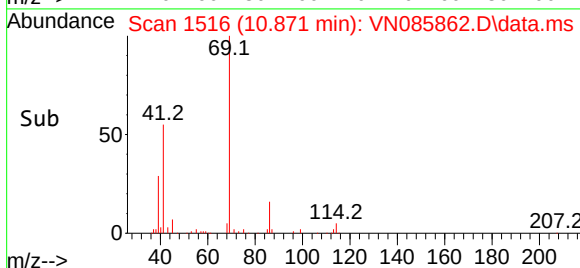
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

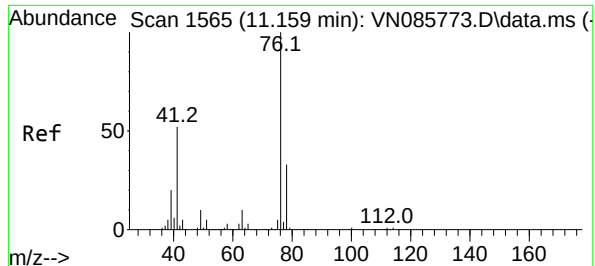


#56
Ethyl methacrylate
Concen: 53.925 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



Tgt Ion: 69 Resp: 272613
Ion Ratio Lower Upper
69 100
41 55.3 46.0 69.0
39 27.5 22.0 33.0





#57

1,3-Dichloropropane

Concen: 51.613 ug/l

RT: 11.159 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 30005

Ion Ratio Lower Upper

76 100

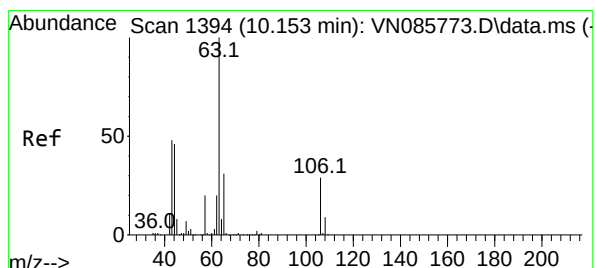
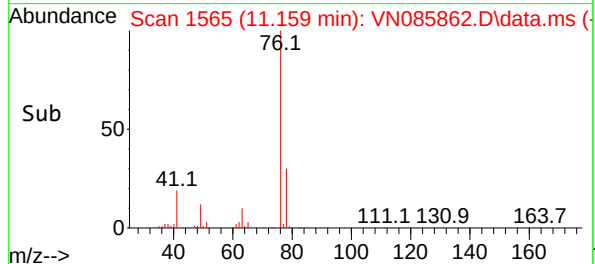
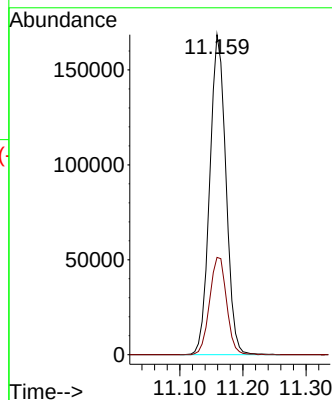
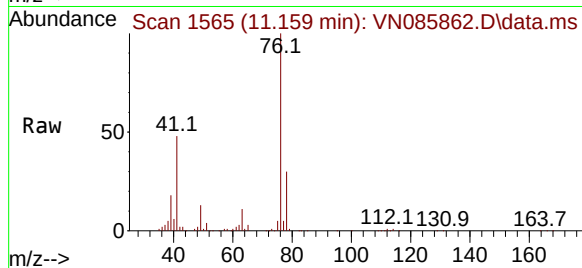
78 31.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#58

2-Chloroethyl Vinyl ether

Concen: 295.691 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085862.D

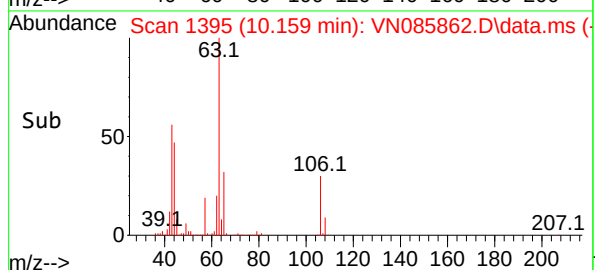
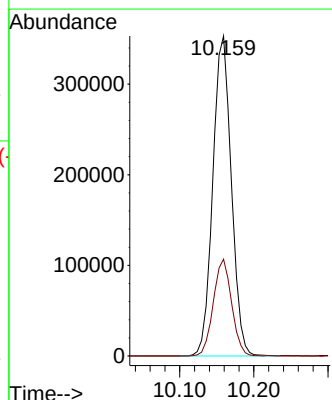
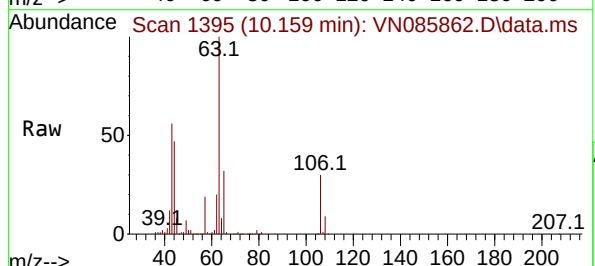
Acq: 26 Feb 2025 10:32

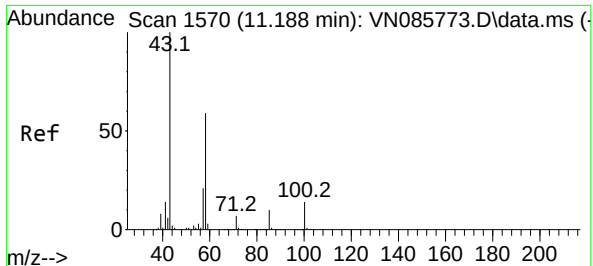
Tgt Ion: 63 Resp: 612478

Ion Ratio Lower Upper

63 100

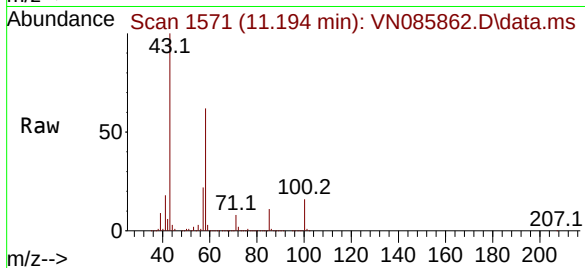
106 29.8 22.7 34.1





#59
2-Hexanone
Concen: 307.699 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

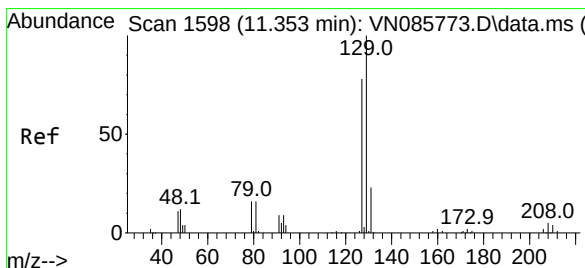
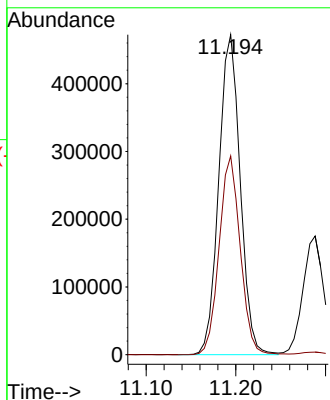
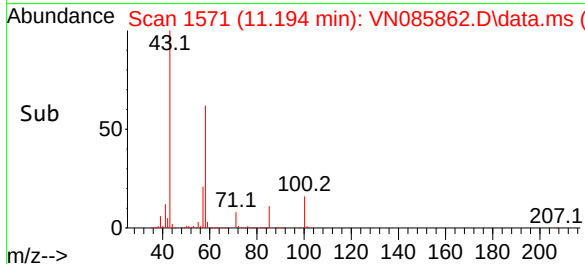
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 783015
Ion Ratio Lower Upper
43 100
58 61.1 29.8 89.5

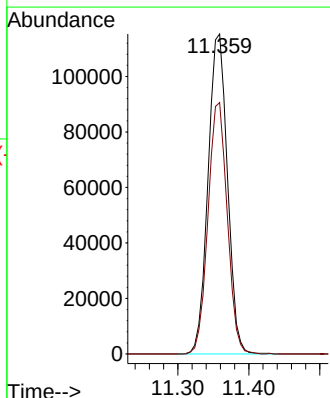
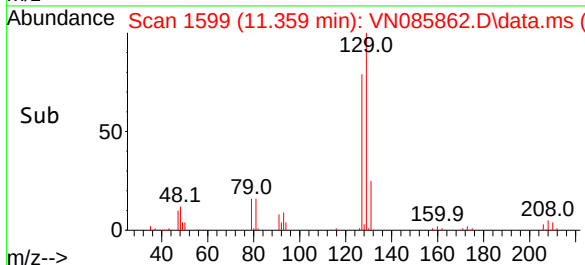
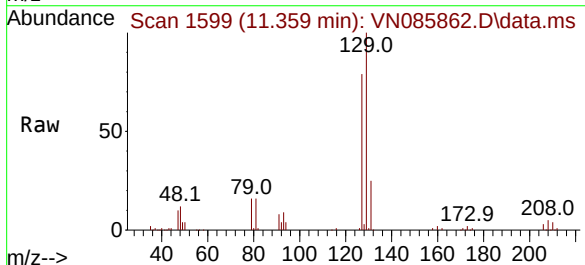
Manual Integrations
APPROVED

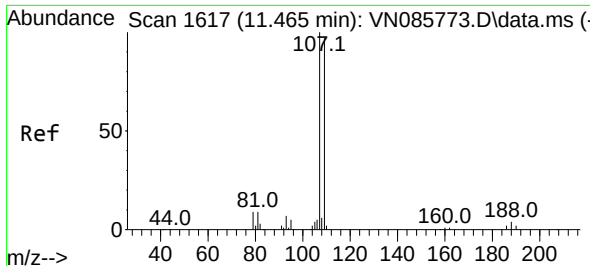
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#60
Dibromochloromethane
Concen: 53.851 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion:129 Resp: 218377
Ion Ratio Lower Upper
129 100
127 78.0 39.1 117.5





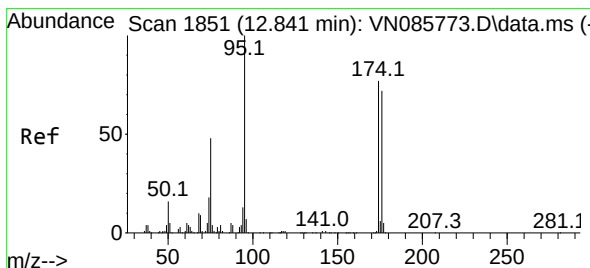
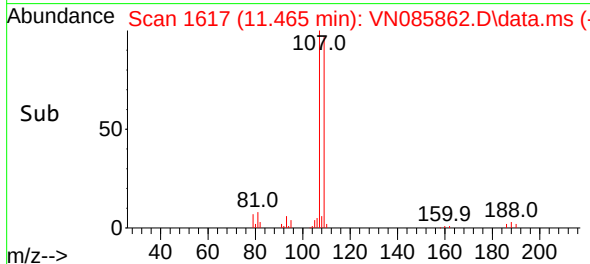
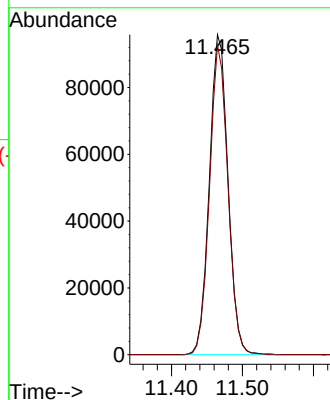
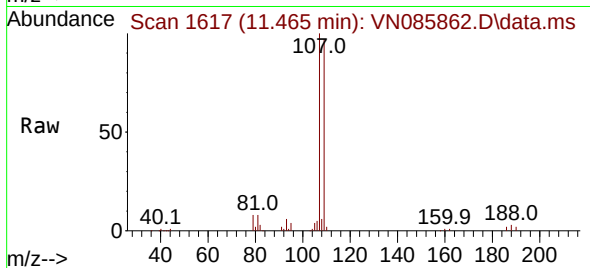
#61
1,2-Dibromoethane
Concen: 53.137 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 17484
Ion Ratio Lower Upper
107 100
109 94.9 76.0 114.0

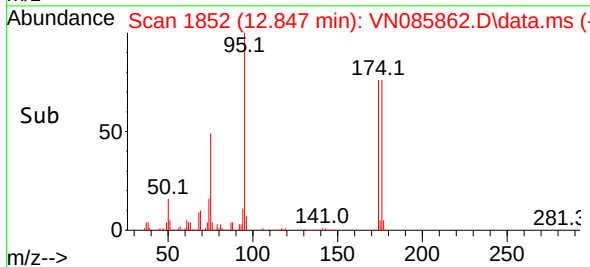
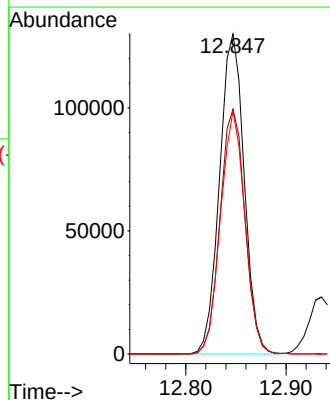
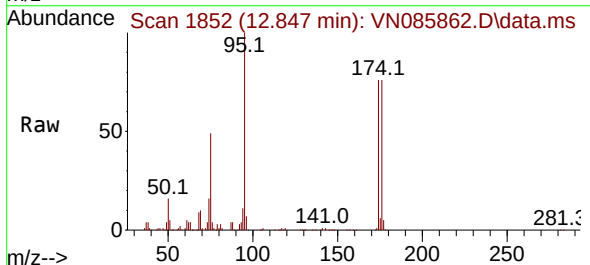
Manual Integrations
APPROVED

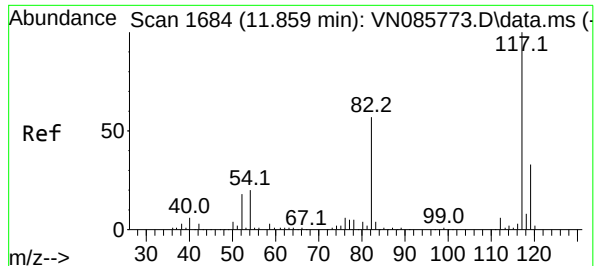
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#62
4-Bromofluorobenzene
Concen: 56.118 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 95 Resp: 221599
Ion Ratio Lower Upper
95 100
174 77.1 0.0 152.4
176 75.3 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

Tgt Ion:117 Resp: 44658

Ion Ratio Lower Upper

117 100

82 55.7 45.7 68.5

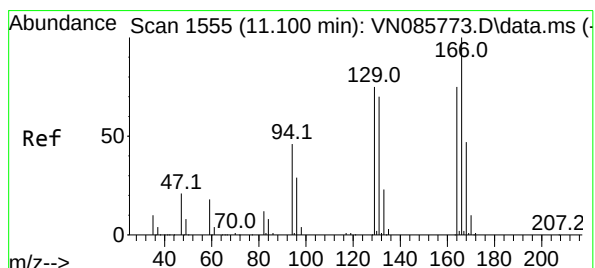
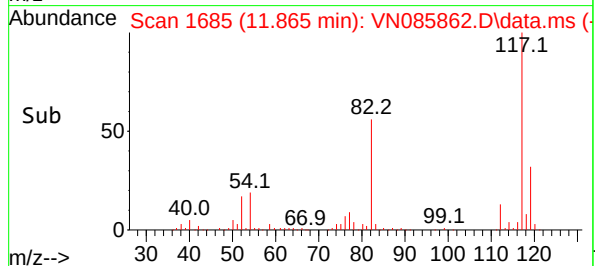
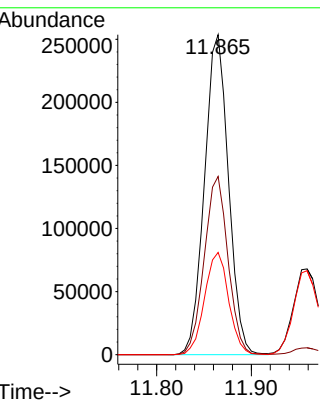
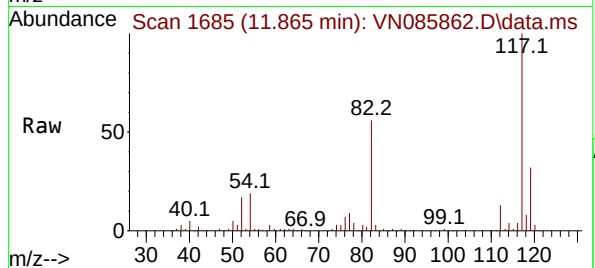
119 32.0 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#64

Tetrachloroethene

Concen: 47.036 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Tgt Ion:164 Resp: 162731

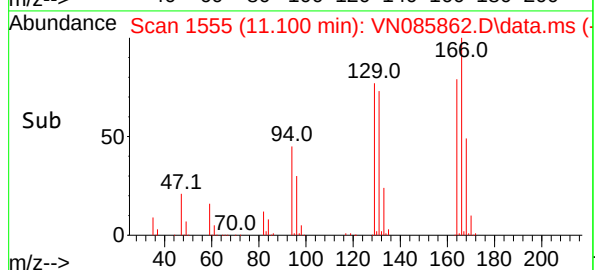
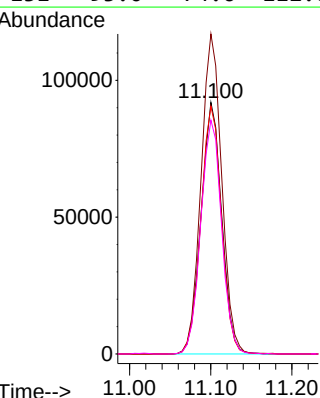
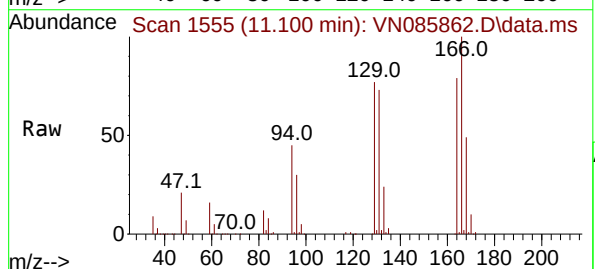
Ion Ratio Lower Upper

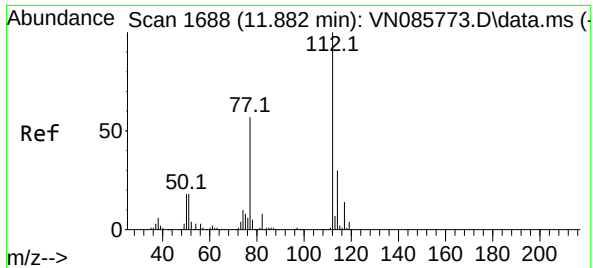
164 100

166 127.2 107.2 160.8

129 98.5 80.7 121.1

131 93.0 74.6 112.0





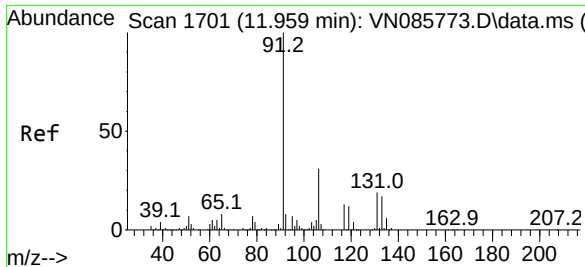
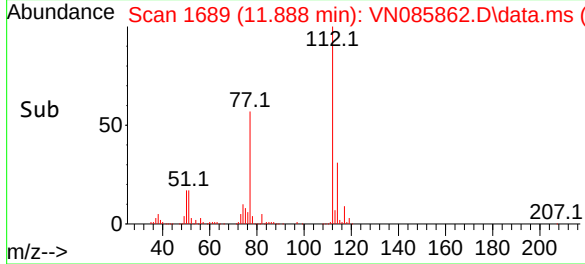
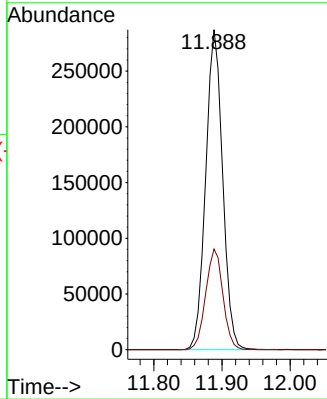
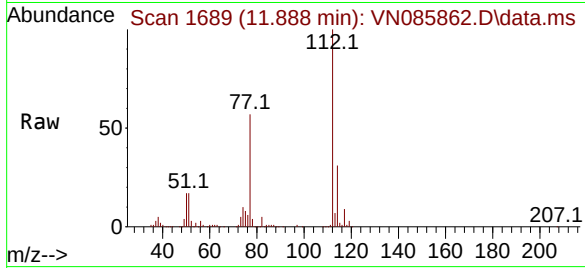
#65
Chlorobenzene
Concen: 48.466 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 495840
Ion Ratio Lower Upper
112 100
114 31.5 24.3 36.5

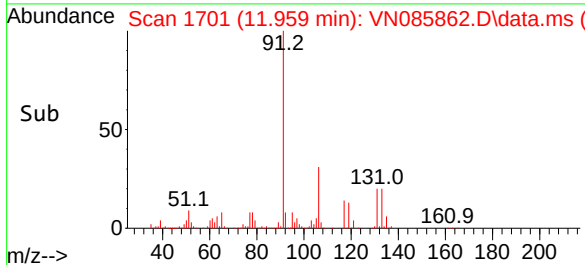
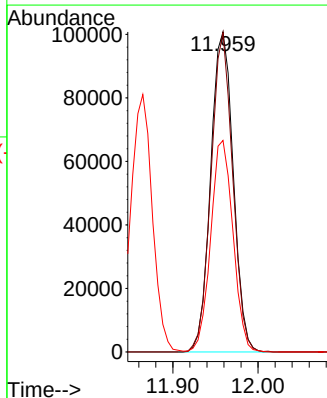
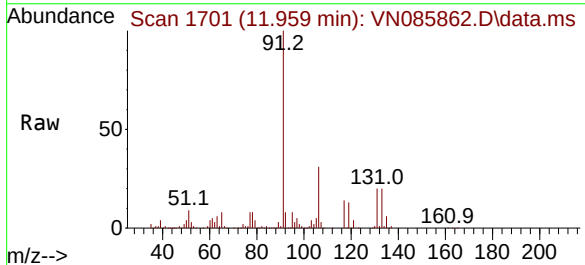
Manual Integrations
APPROVED

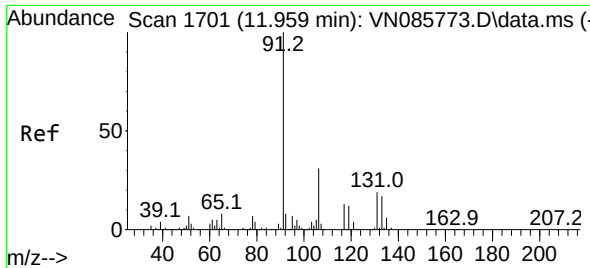
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.366 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion:131 Resp: 185207
Ion Ratio Lower Upper
131 100
133 95.7 47.7 143.1
119 65.5 33.3 99.8





#67

Ethyl Benzene

Concen: 52.612 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 84315

Ion Ratio Lower Upper

91 100

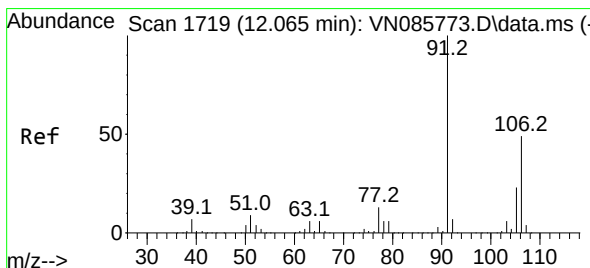
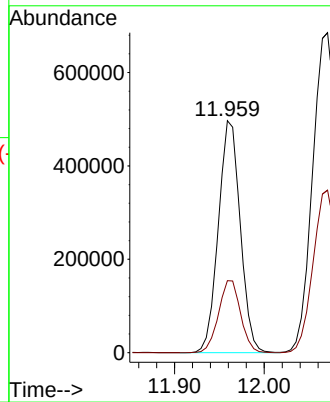
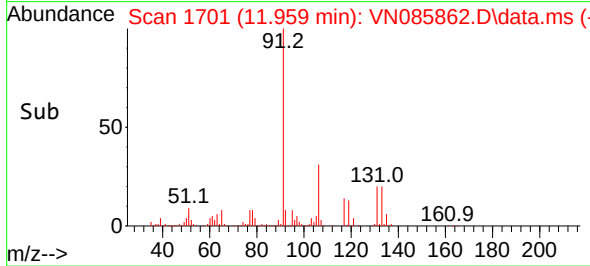
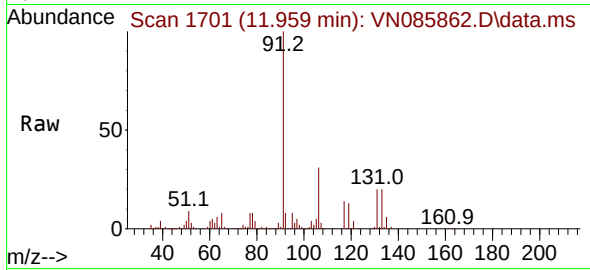
106 31.1 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#68

m/p-Xylenes

Concen: 110.148 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085862.D

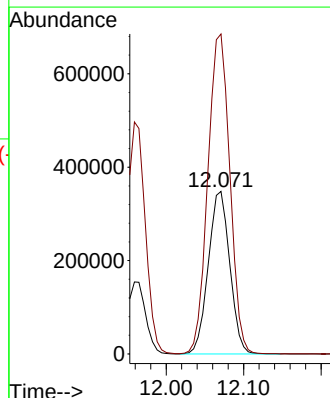
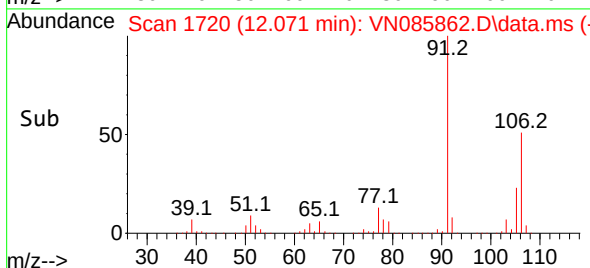
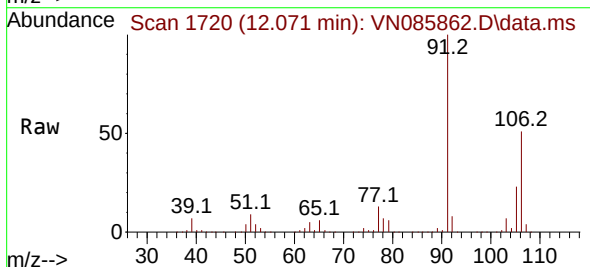
Acq: 26 Feb 2025 10:32

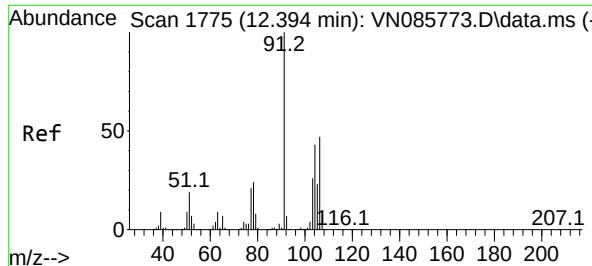
Tgt Ion:106 Resp: 670511

Ion Ratio Lower Upper

106 100

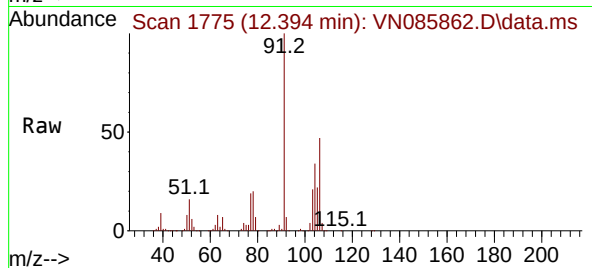
91 202.0 163.3 244.9





#69
o-Xylene
Concen: 54.979 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

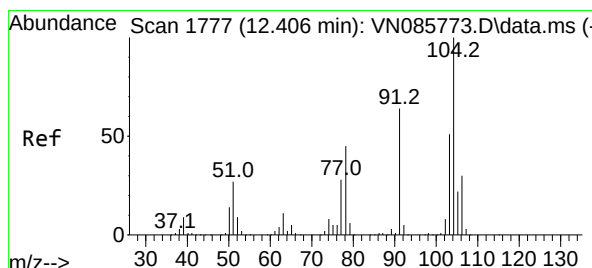
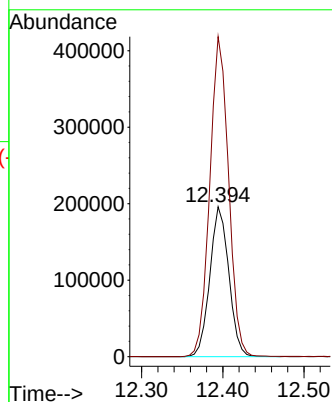
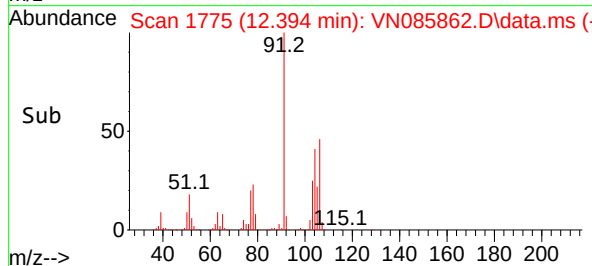
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:106 Resp: 31803
Ion Ratio Lower Upper
106 100
91 212.0 107.1 321.4

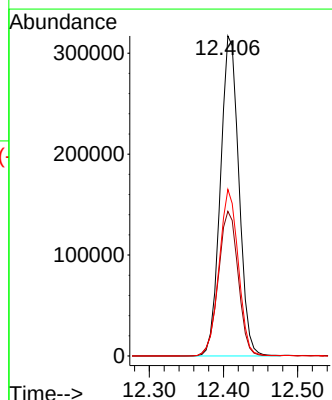
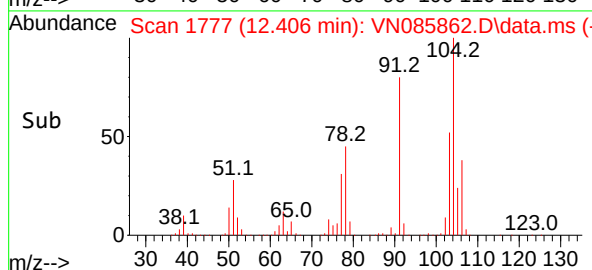
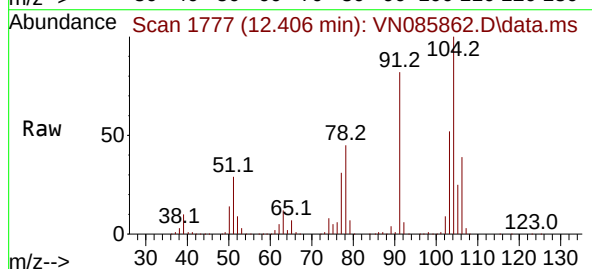
Manual Integrations
APPROVED

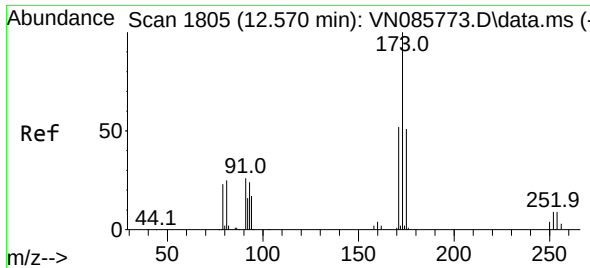
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#70
Styrene
Concen: 50.949 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

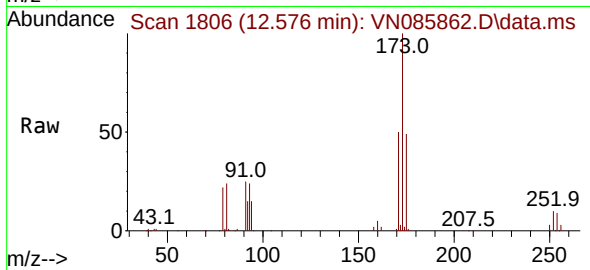
Tgt Ion:104 Resp: 549551
Ion Ratio Lower Upper
104 100
78 48.4 39.0 58.6
103 54.1 43.3 64.9





#71
Bromoform
Concen: 54.751 ug/l
RT: 12.576 min Scan# 1805
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

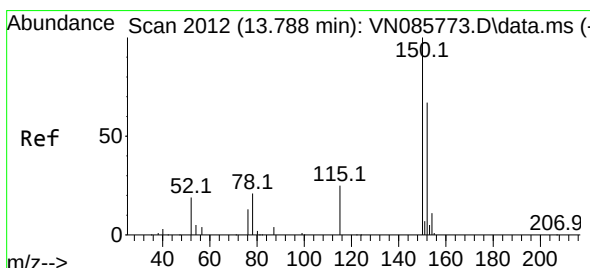
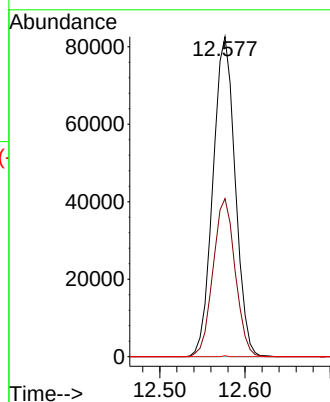
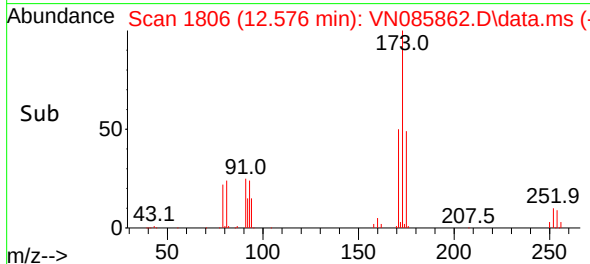
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



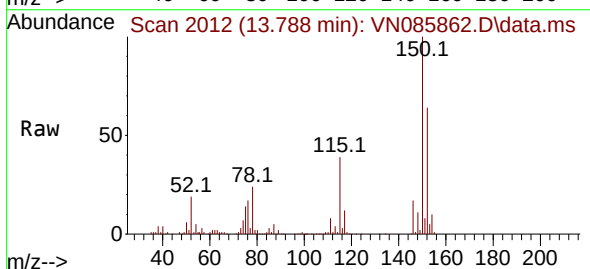
Tgt Ion:173 Resp: 149600
Ion Ratio Lower Upper
173 100
175 49.2 25.1 75.4
254 0.1 0.0 0.0

Manual Integrations
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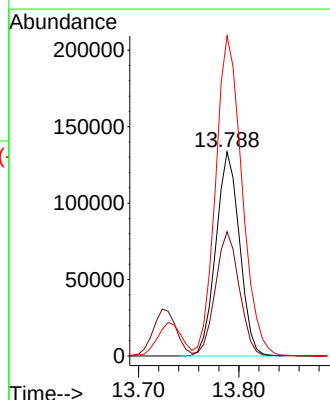
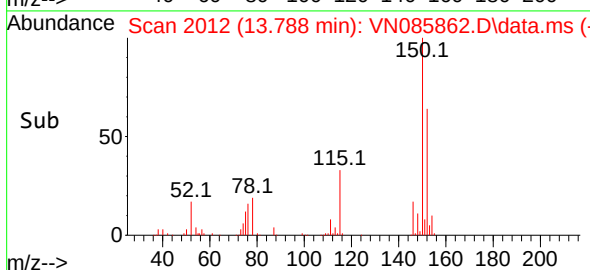
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

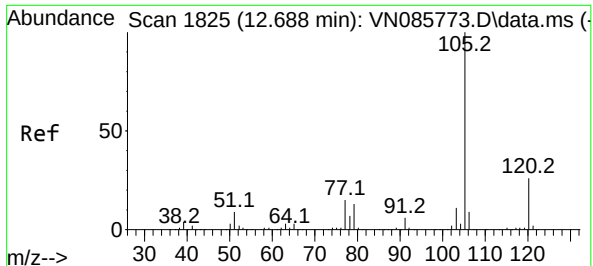


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



Tgt Ion:152 Resp: 218212
Ion Ratio Lower Upper
152 100
115 61.7 30.4 91.3
150 175.8 0.0 345.4





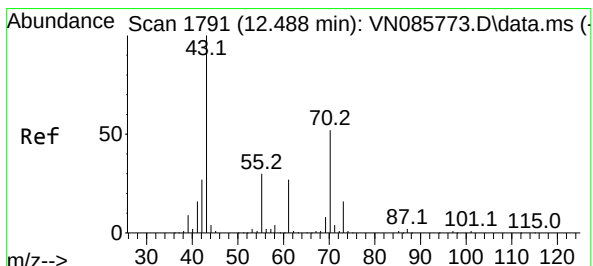
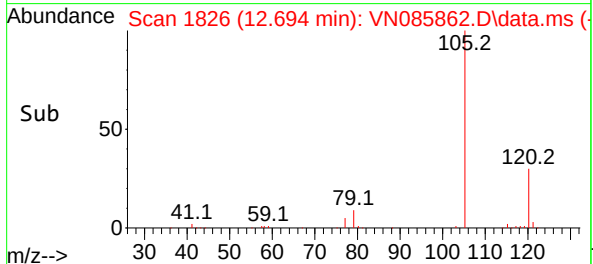
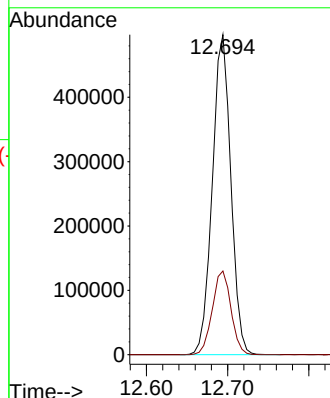
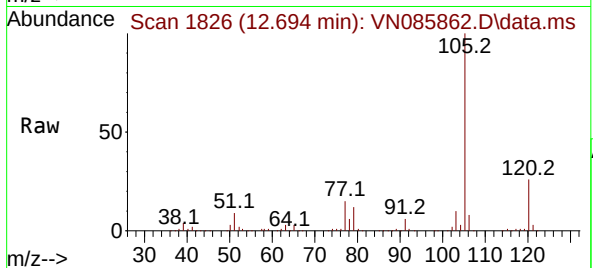
#73
Isopropylbenzene
Concen: 52.624 ug/l
RT: 12.694 min Scan# 1825
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 786710
Ion Ratio Lower Upper
105 100
120 26.3 13.0 39.0

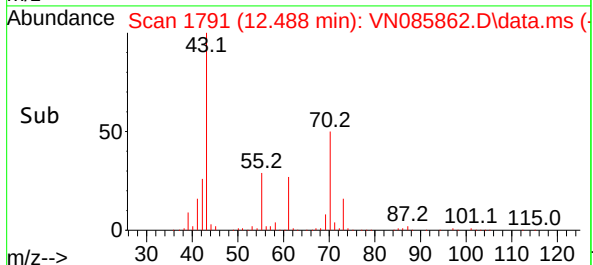
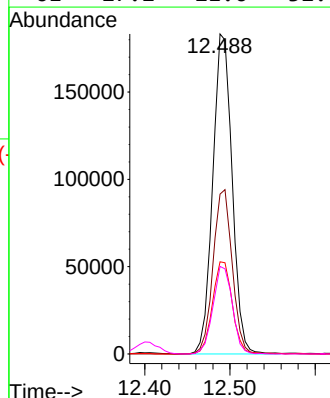
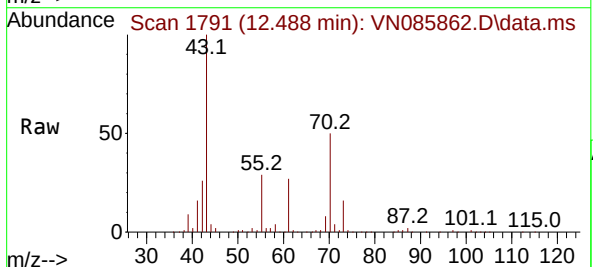
Manual Integrations
APPROVED

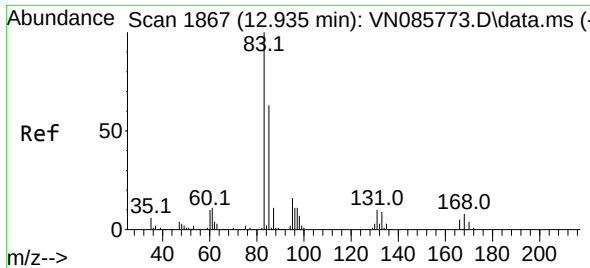
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#74
N-ethyl acetate
Concen: 54.898 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 43 Resp: 289414
Ion Ratio Lower Upper
43 100
70 50.7 41.0 61.4
55 29.5 24.6 36.8
61 27.2 21.6 32.4





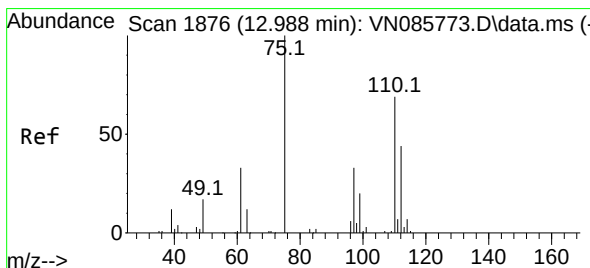
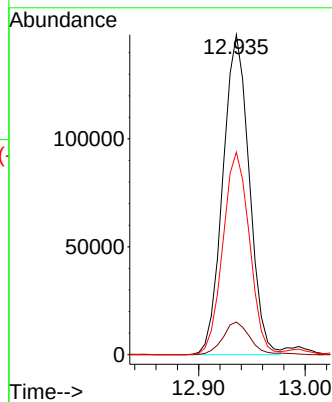
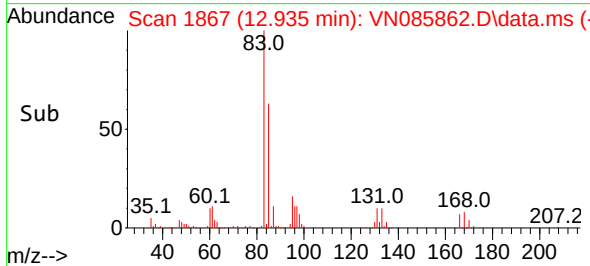
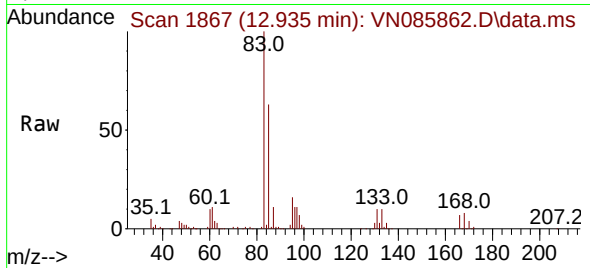
#75
1,1,2,2-Tetrachloroethane
Concen: 49.503 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 254660
Ion Ratio Lower Upper
83 100
131 10.7 5.0 15.0
85 63.9 32.2 96.6

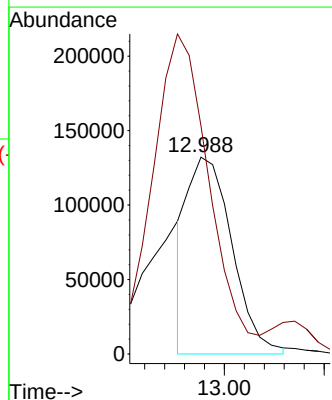
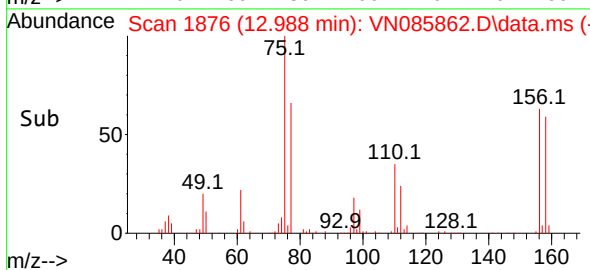
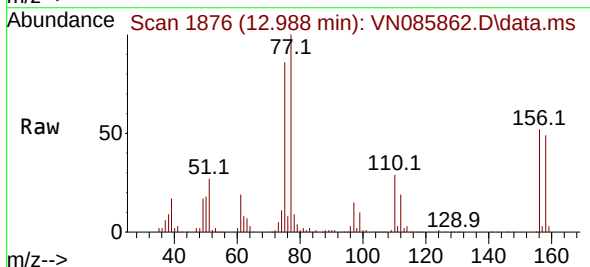
Manual Integrations
APPROVED

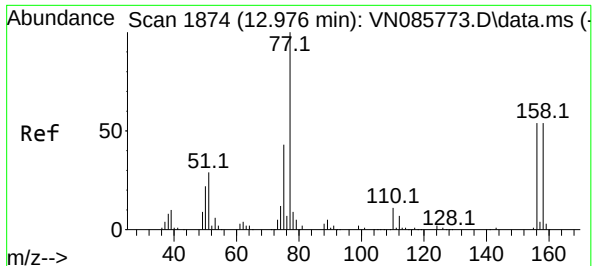
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#76
1,2,3-Trichloropropane
Concen: 42.297 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

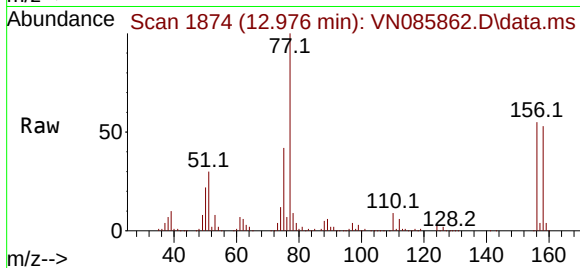
Tgt Ion: 75 Resp: 205022
Ion Ratio Lower Upper
75 100
77 209.1 100.0 300.0





#77
Bromobenzene
Concen: 51.245 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

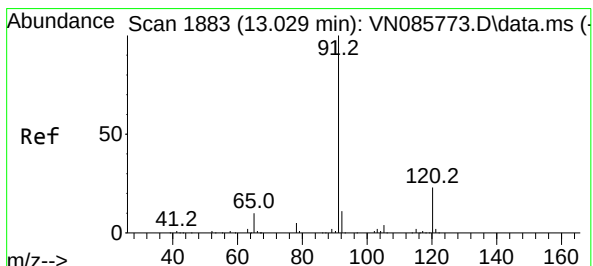
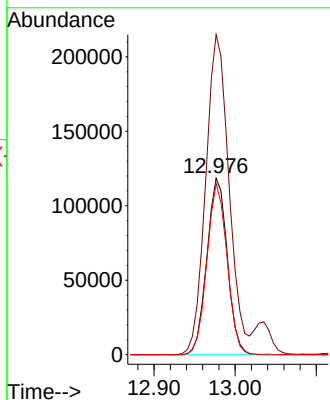
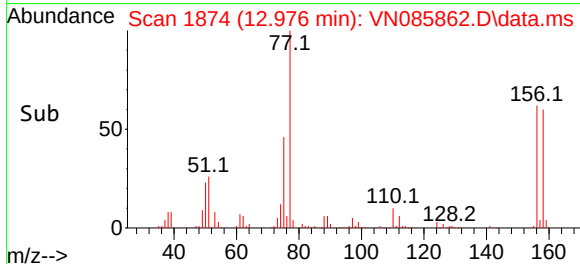
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 206974
Ion Ratio Lower Upper
156 100
77 207.1 104.1 312.3
158 95.7 48.1 144.4

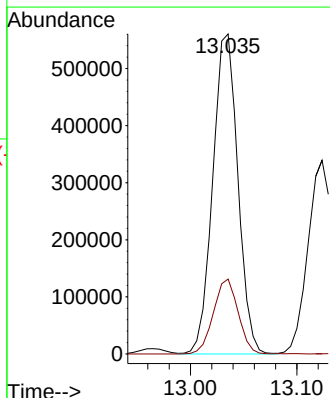
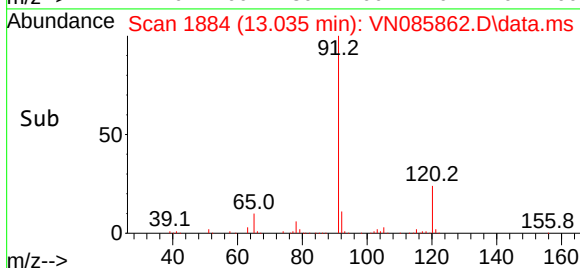
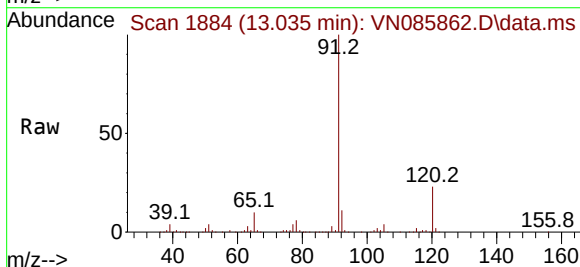
Manual Integrations
APPROVED

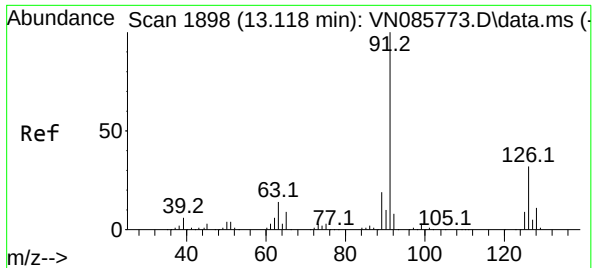
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#78
n-propylbenzene
Concen: 53.548 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion: 91 Resp: 916789
Ion Ratio Lower Upper
91 100
120 23.0 11.3 33.8





#79

2-Chlorotoluene

Concen: 50.582 ug/l

RT: 13.124 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 57861

Ion Ratio Lower Upper

91 100

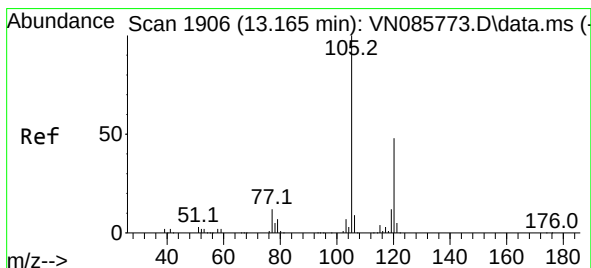
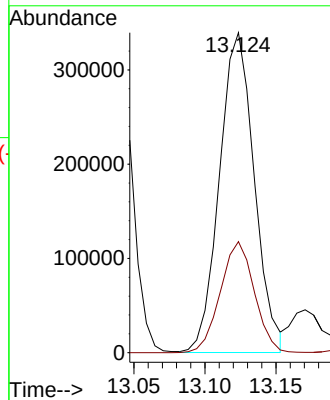
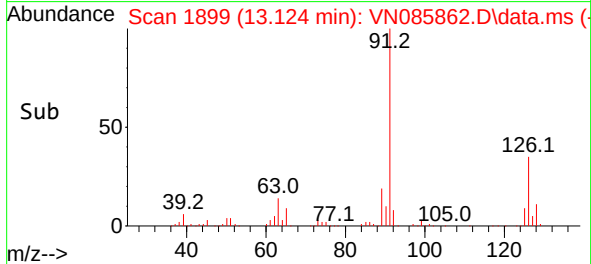
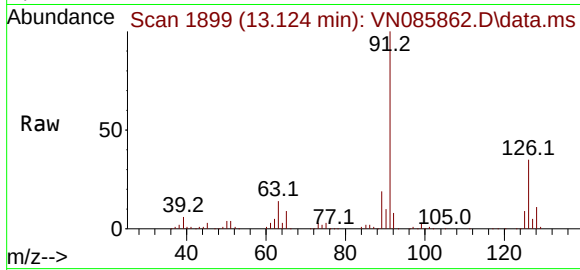
126 33.9 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#80

1,3,5-Trimethylbenzene

Concen: 54.809 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085862.D

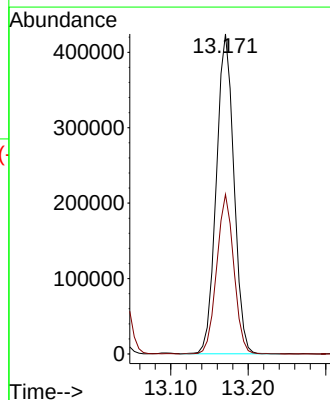
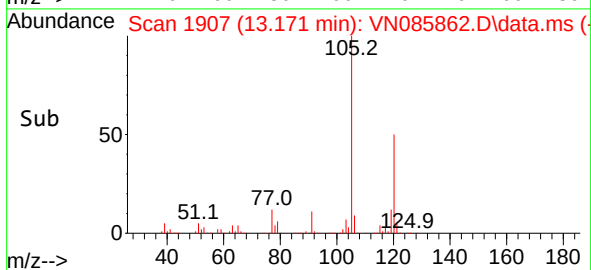
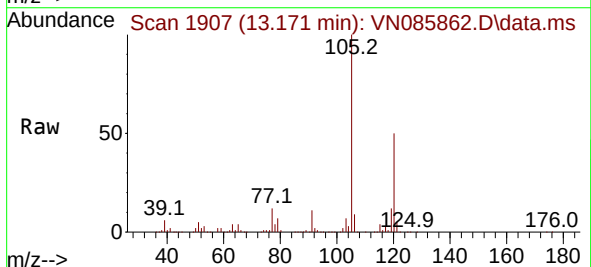
Acq: 26 Feb 2025 10:32

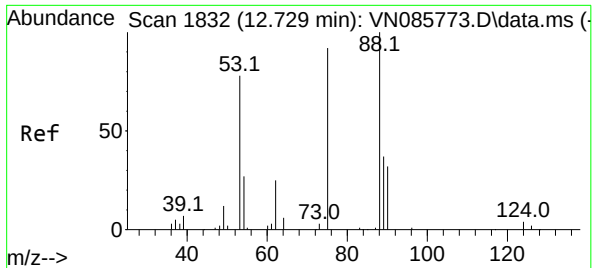
Tgt Ion:105 Resp: 667463

Ion Ratio Lower Upper

105 100

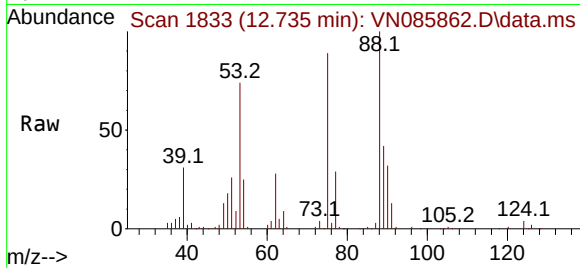
120 48.8 24.3 72.9





#81
trans-1,4-Dichloro-2-butene
Concen: 55.714 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

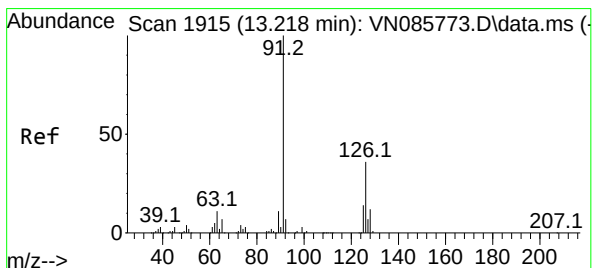
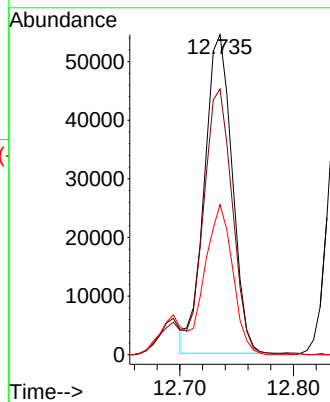
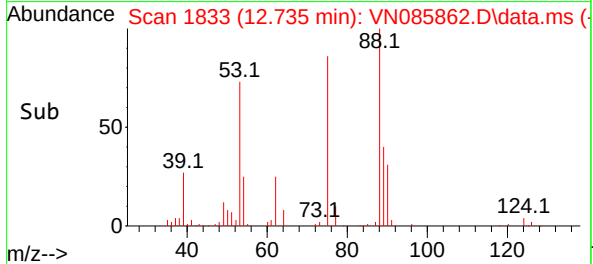
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 9255
Ion Ratio Lower Upper
75 100
53 85.5 74.2 111.4
89 46.8 34.9 52.3

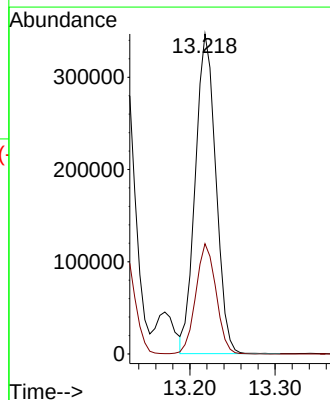
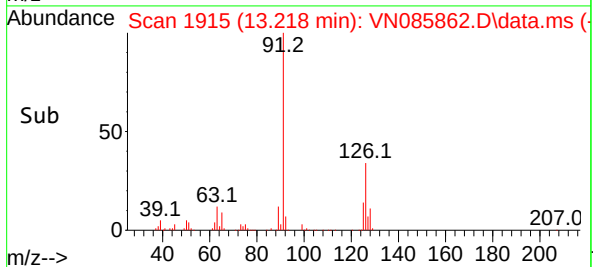
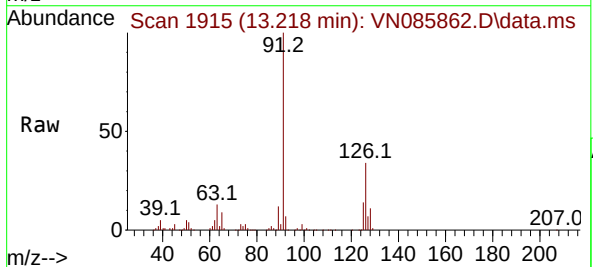
Manual Integrations
APPROVED

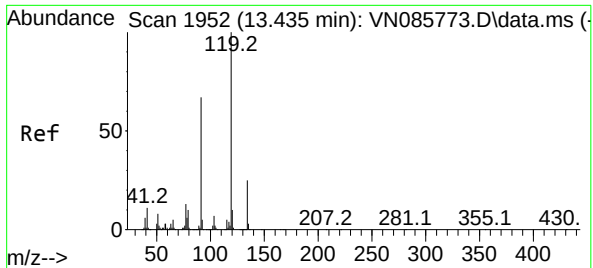
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#82
4-Chlorotoluene
Concen: 51.077 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

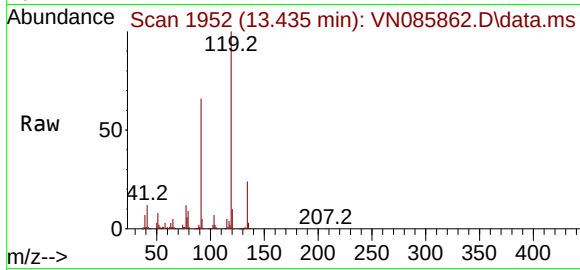
Tgt Ion: 91 Resp: 579227
Ion Ratio Lower Upper
91 100
126 34.1 16.4 49.4





#83
tert-Butylbenzene
Concen: 53.720 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

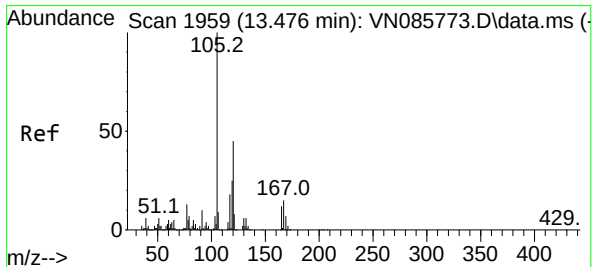
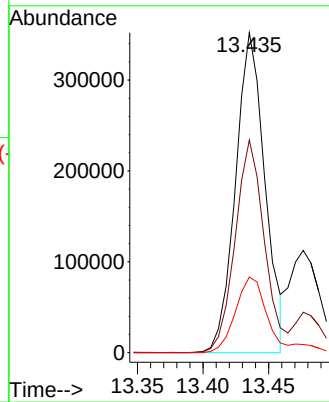
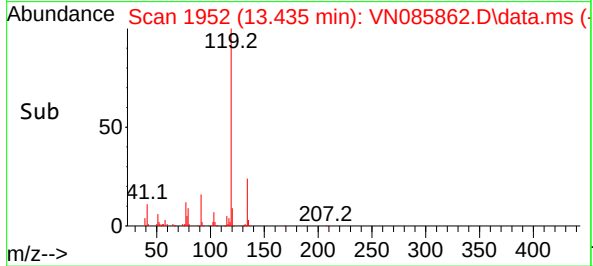
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



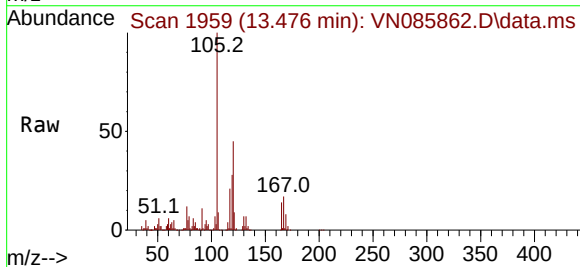
Tgt Ion:119 Resp: 550124
Ion Ratio Lower Upper
119 100
91 66.3 32.5 97.5
134 26.9 13.3 39.9

Manual Integrations
APPROVED

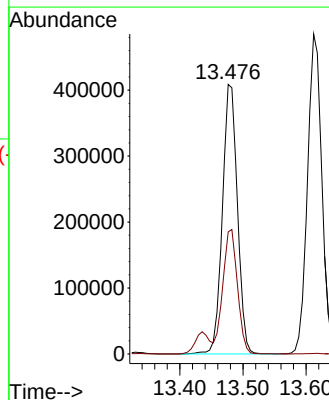
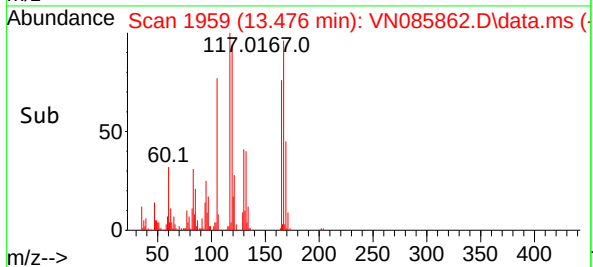
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

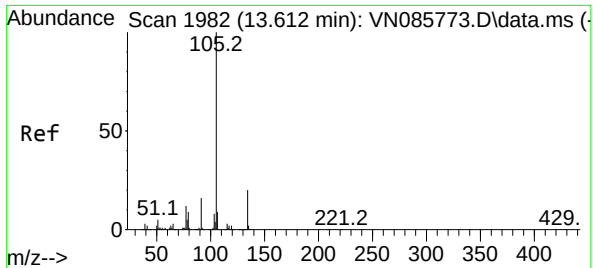


#84
1,2,4-Trimethylbenzene
Concen: 56.106 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



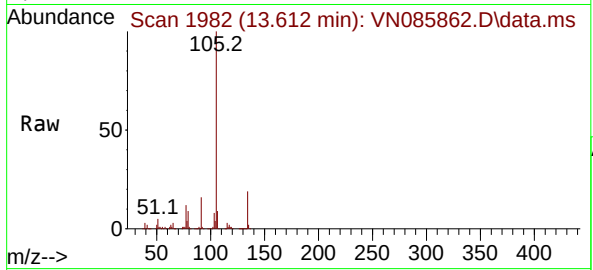
Tgt Ion:105 Resp: 675986
Ion Ratio Lower Upper
105 100
120 45.0 22.4 67.3





#85
sec-Butylbenzene
Concen: 52.717 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

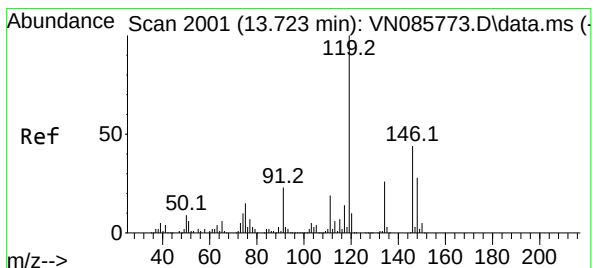
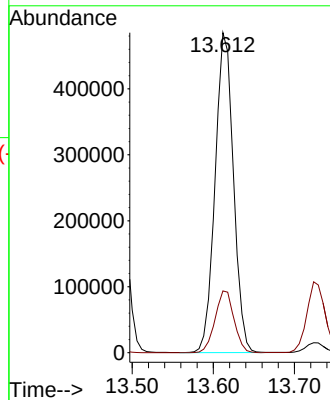
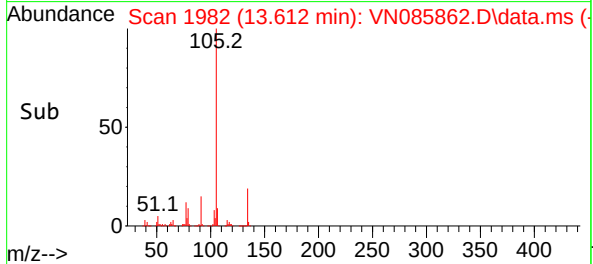
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 762762
Ion Ratio Lower Upper
105 100
134 19.9 9.8 29.4

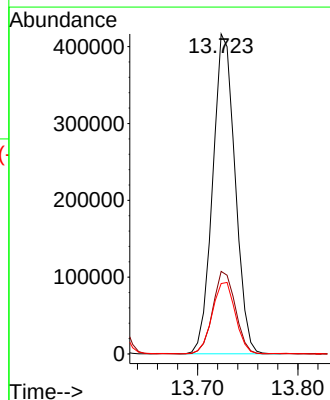
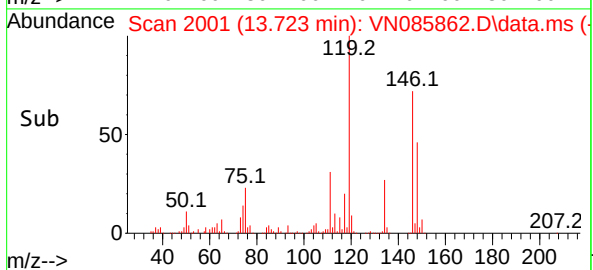
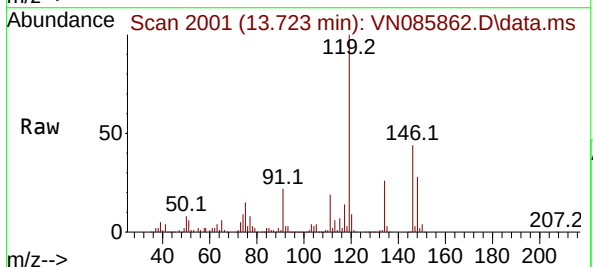
Manual Integrations
APPROVED

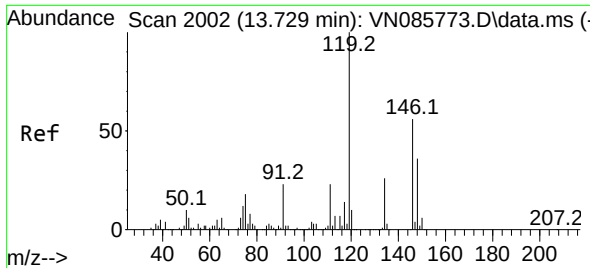
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#86
p-Isopropyltoluene
Concen: 48.701 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

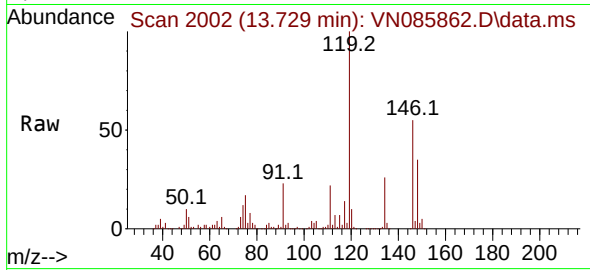
Tgt Ion:119 Resp: 644100
Ion Ratio Lower Upper
119 100
134 25.9 13.0 39.0
91 23.2 11.7 35.1





#87
1,3-Dichlorobenzene
Concen: 48.641 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

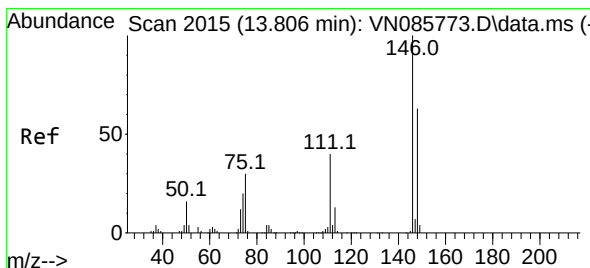
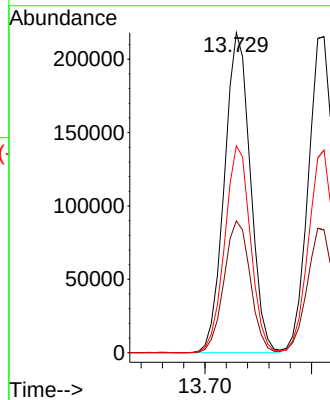
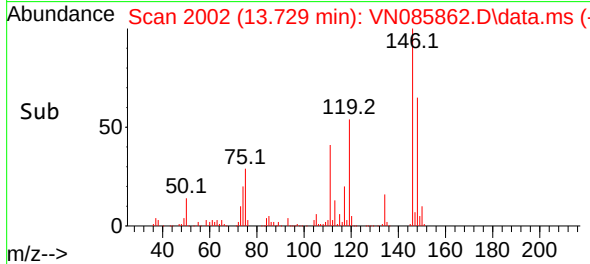
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 36807
Ion Ratio Lower Upper
146 100
111 41.9 21.1 63.3
148 64.3 32.1 96.5

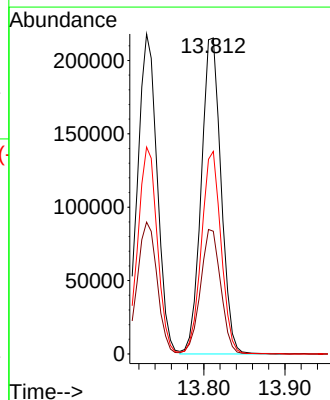
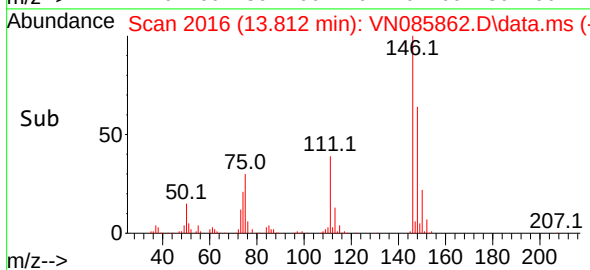
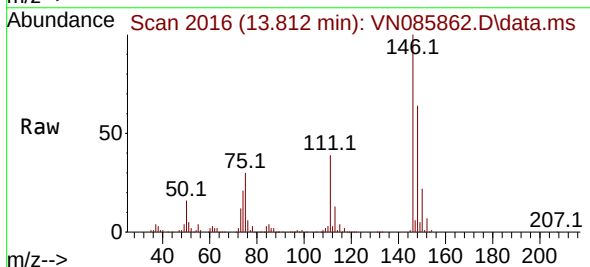
Manual Integrations
APPROVED

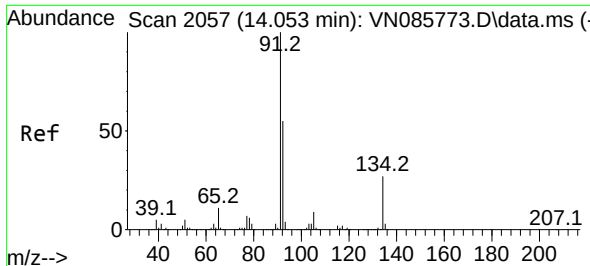
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#88
1,4-Dichlorobenzene
Concen: 47.056 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

Tgt Ion:146 Resp: 364956
Ion Ratio Lower Upper
146 100
111 40.3 20.4 61.3
148 63.6 31.8 95.4





#89

n-Butylbenzene

Concen: 49.562 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

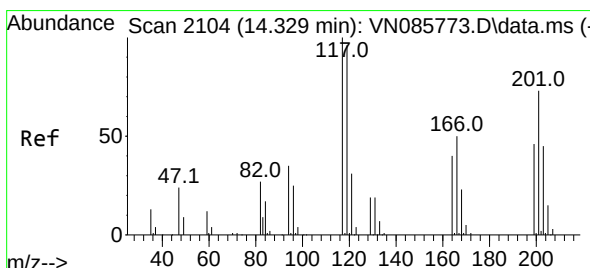
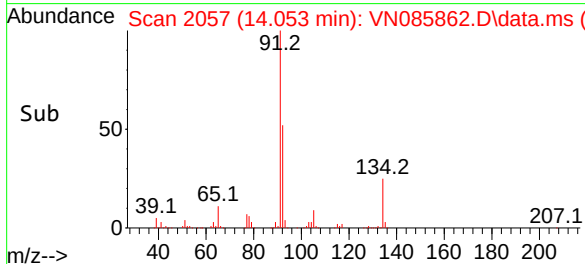
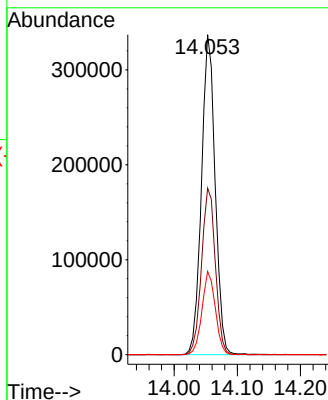
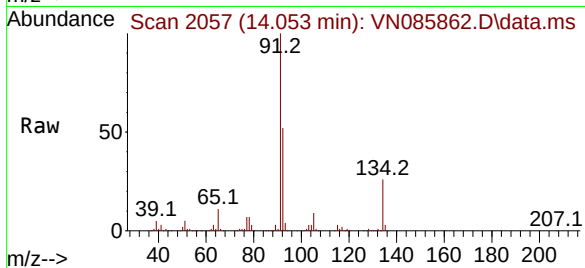
VSTDC050

Tgt Ion:	91	Resp:	50913
Ion	Ratio	Lower	Upper
91	100		
92	52.5	27.1	81.3
134	25.3	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#90

Hexachloroethane

Concen: 47.768 ug/l

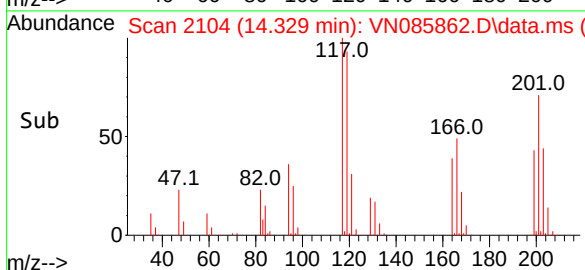
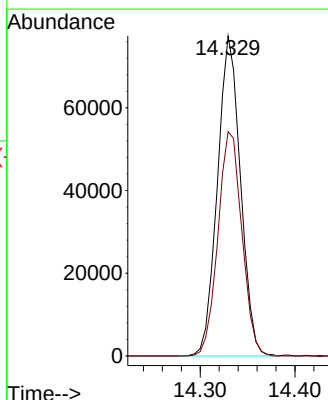
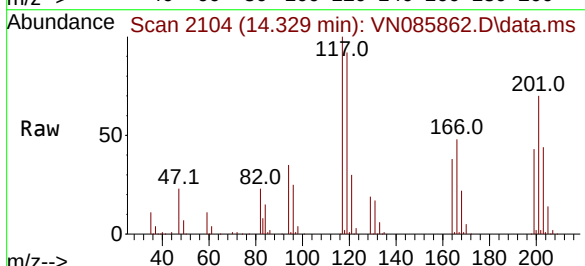
RT: 14.329 min Scan# 2104

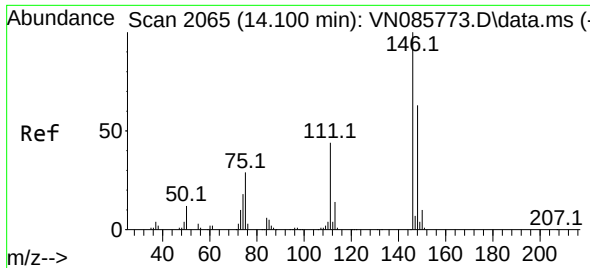
Delta R.T. 0.000 min

Lab File: VN085862.D

Acq: 26 Feb 2025 10:32

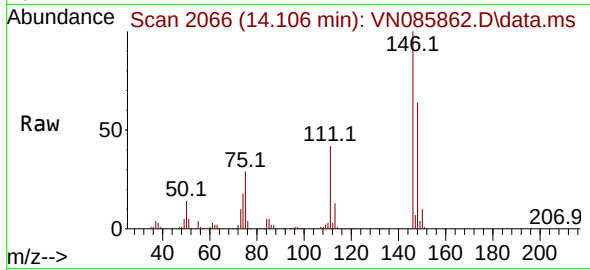
Tgt Ion:	117	Resp:	130894
Ion	Ratio	Lower	Upper
117	100		
201	72.8	35.6	106.9





#91
1,2-Dichlorobenzene
Concen: 49.101 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

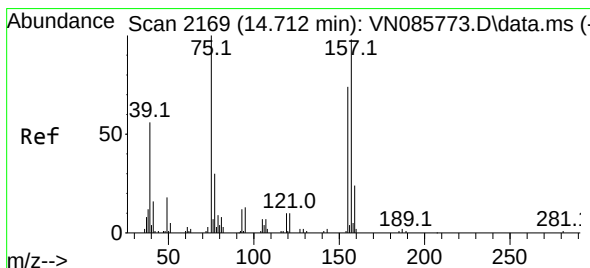
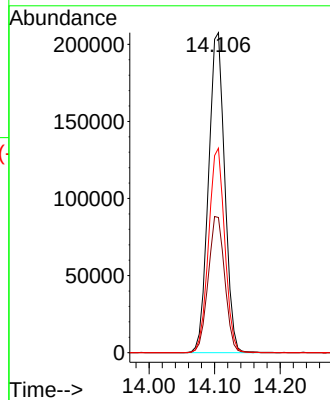
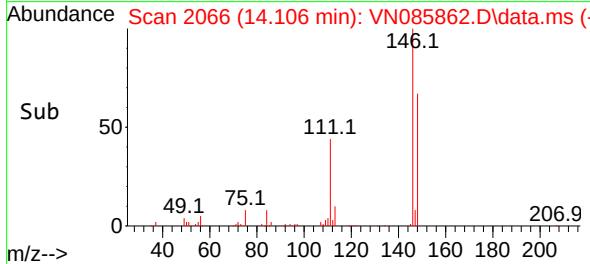
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 357290
Ion Ratio Lower Upper
146 100
111 43.5 21.4 64.3
148 63.6 32.0 96.2

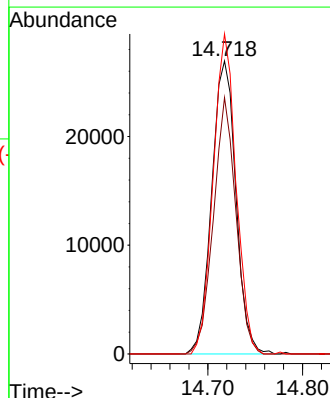
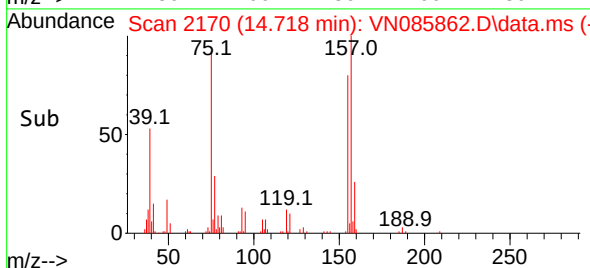
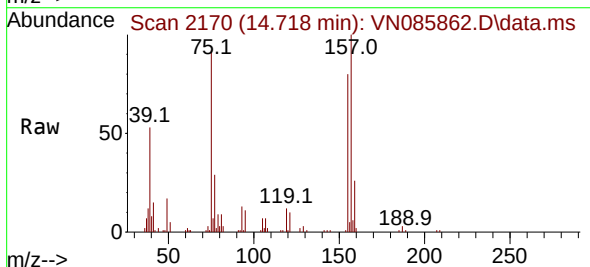
Manual Integrations
APPROVED

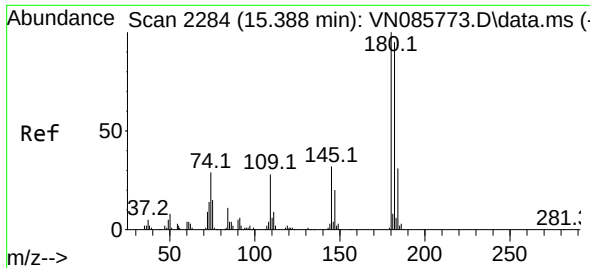
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.581 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

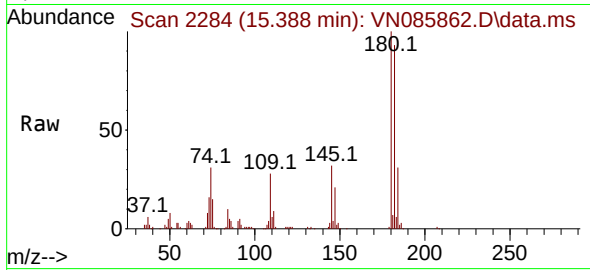
Tgt Ion: 75 Resp: 47781
Ion Ratio Lower Upper
75 100
155 81.4 39.9 119.6
157 103.4 49.9 149.7





#93
1,2,4-Trichlorobenzene
Concen: 48.435 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

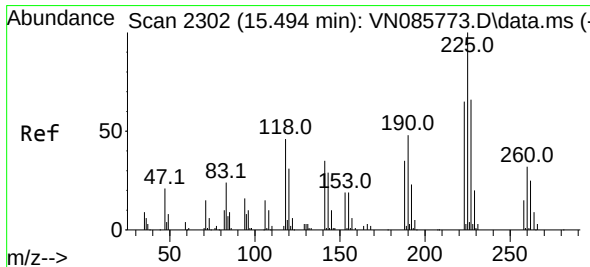
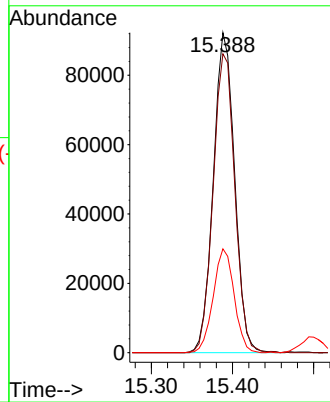
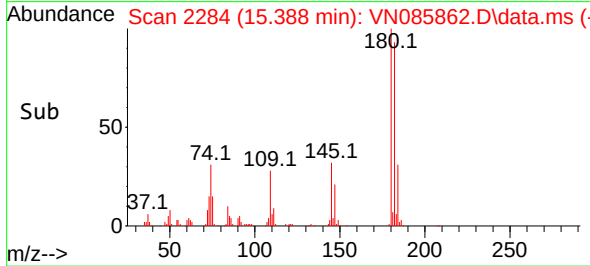
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



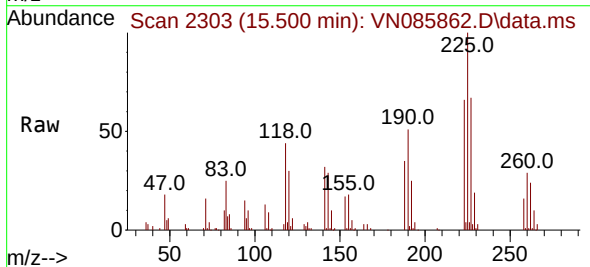
Tgt Ion:180 Resp: 16794
Ion Ratio Lower Upper
180 100
182 95.5 47.3 141.9
145 32.0 16.2 48.5

Manual Integrations
APPROVED

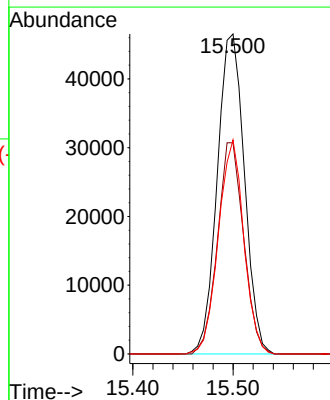
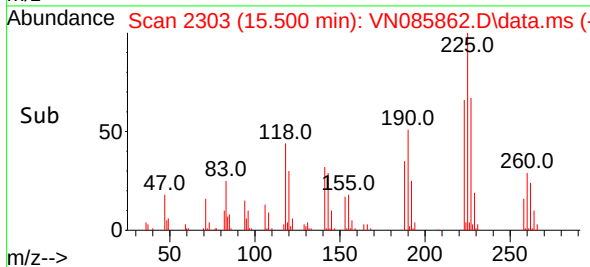
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

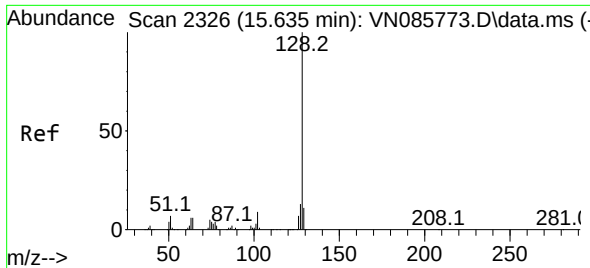


#94
Hexachlorobutadiene
Concen: 41.603 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



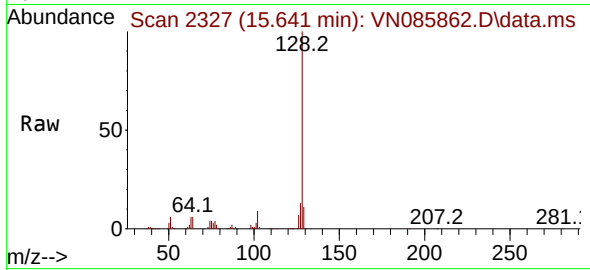
Tgt Ion:225 Resp: 87668
Ion Ratio Lower Upper
225 100
223 63.7 31.9 95.5
227 62.5 32.2 96.6





#95
Naphthalene
Concen: 54.292 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32

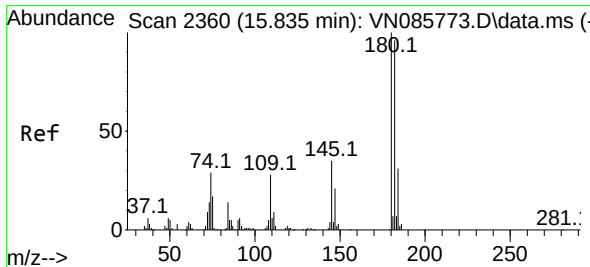
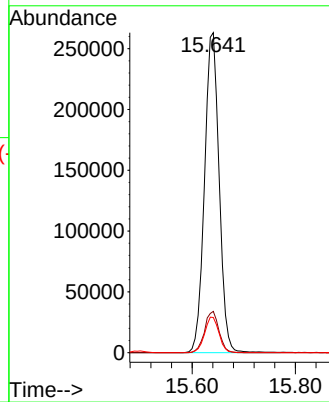
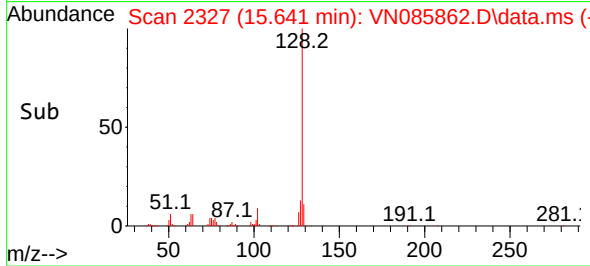
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



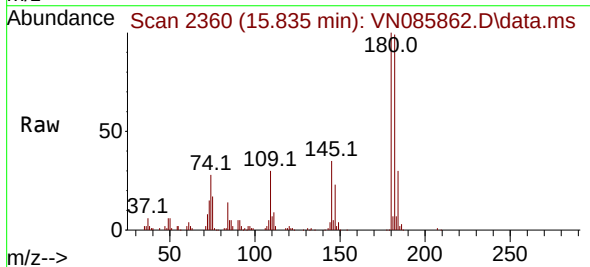
Tgt Ion:128 Resp: 51682
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.7 13.1

Manual Integrations
APPROVED

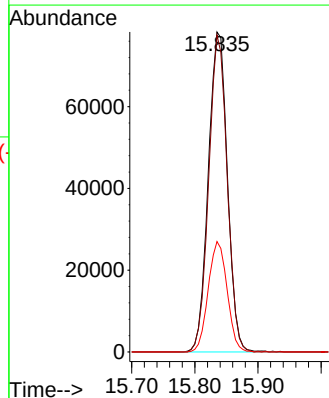
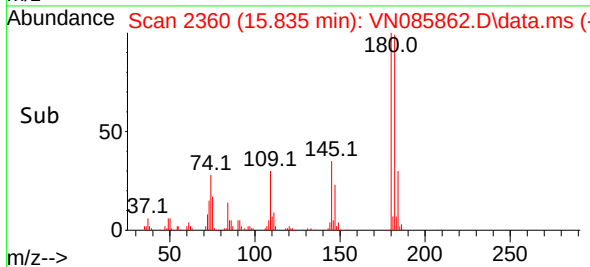
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.124 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085862.D
Acq: 26 Feb 2025 10:32



Tgt Ion:180 Resp: 164036
Ion Ratio Lower Upper
180 100
182 95.9 47.3 141.8
145 34.2 16.9 50.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.680	0.603	11.3	87	0.00
3 P	Chloromethane	0.682	0.558	18.2	87	0.00
4 C	Vinyl Chloride	0.723	0.629	13.0#	90	0.00
5 T	Bromomethane	0.462	0.387	16.2	89	-0.01
6 T	Chloroethane	0.479	0.404	15.7	94	-0.01
7 T	Trichlorofluoromethane	1.046	0.957	8.5	97	0.00
8 T	Diethyl Ether	0.339	0.320	5.6	94	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.605	0.565	6.6	97	0.00
10 T	Methyl Iodide	0.745	0.721	3.2	97	0.00
11 T	Tert butyl alcohol	0.080	0.090	-12.5	111	0.01
12 CM	1,1-Dichloroethene	0.548	0.514	6.2#	94	0.00
13 T	Acrolein	0.118	0.126	-6.8	96	0.00
14 T	Allyl chloride	0.720	0.636	11.7	89	0.00
15 T	Acrylonitrile	0.259	0.268	-3.5	106	0.00
16 T	Acetone	0.205	0.210	-2.4	111	0.00
17 T	Carbon Disulfide	1.625	1.287	20.8	85	0.00
18 T	Methyl Acetate	0.705	0.722	-2.4	113	0.00
19 T	Methyl tert-butyl Ether	1.629	1.702	-4.5	99	0.00
20 T	Methylene Chloride	0.660	0.593	10.2	97	0.00
21 T	trans-1,2-Dichloroethene	0.590	0.540	8.5	95	0.00
22 T	Diisopropyl ether	1.627	1.611	1.0	95	0.00
23 T	Vinyl Acetate	1.114	1.120	-0.5	97	0.00
24 P	1,1-Dichloroethane	1.106	1.023	7.5	96	0.00
25 T	2-Butanone	0.302	0.329	-8.9	108	0.01
26 T	2,2-Dichloropropane	0.983	0.926	5.8	95	0.00
27 T	cis-1,2-Dichloroethene	0.685	0.645	5.8	95	0.00
28 T	Bromochloromethane	0.454	0.410	9.7	89	0.00
29 T	Tetrahydrofuran	0.195	0.217	-11.3	107	0.00
30 C	Chloroform	1.156	1.085	6.1#	98	0.00
31 T	Cyclohexane	0.926	0.771	16.7	87	0.00
32 T	1,1,1-Trichloroethane	1.028	0.968	5.8	97	0.00
33 S	1,2-Dichloroethane-d4	0.648	0.640	1.2	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35 S	Dibromofluoromethane	0.327	0.342	-4.6	103	0.00
36 T	1,1-Dichloropropene	0.463	0.452	2.4	94	0.00
37 T	Ethyl Acetate	0.381	0.415	-8.9	106	0.00
38 T	Carbon Tetrachloride	0.550	0.534	2.9	97	0.00
39 T	Methylcyclohexane	0.455	0.440	3.3	85	0.00
40 TM	Benzene	1.484	1.424	4.0	94	0.00
41 T	Methacrylonitrile	0.204	0.224	-9.8	99	0.00
42 TM	1,2-Dichloroethane	0.483	0.472	2.3	99	0.00
43 T	Isopropyl Acetate	0.807	0.678	16.0	102	0.00
44 TM	Trichloroethene	0.364	0.343	5.8	97	0.00
45 C	1,2-Dichloropropane	0.358	0.349	2.5#	96	0.00
46 T	Dibromomethane	0.253	0.251	0.8	99	0.00
47 T	Bromodichloromethane	0.541	0.531	1.8	98	0.00
48 T	Methyl methacrylate	0.283	0.313	-10.6	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.005	0.007	-40.0#	120	0.00
50 S	Toluene-d8	1.190	1.260	-5.9	100	0.00
51 T	4-Methyl-2-Pentanone	0.367	0.433	-18.0	109	0.00
52 CM	Toluene	0.870	0.905	-4.0#	96	0.00
53 T	t-1,3-Dichloropropene	0.500	0.524	-4.8	96	0.00
54 T	cis-1,3-Dichloropropene	0.548	0.570	-4.0	96	0.00
55 T	1,1,2-Trichloroethane	0.346	0.354	-2.3	102	0.00
56 T	Ethyl methacrylate	0.434	0.542	-24.9	104	0.00
57 T	1,3-Dichloropropane	0.577	0.596	-3.3	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.195	0.243	-24.6	133	0.00
59 T	2-Hexanone	0.253	0.311	-22.9	109	0.00
60 T	Dibromochloromethane	0.403	0.434	-7.7	103	0.00
61 T	1,2-Dibromoethane	0.327	0.347	-6.1	103	0.00
62 S	4-Bromofluorobenzene	0.392	0.440	-12.2	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.387	0.364	5.9	98	0.00
65 PM	Chlorobenzene	1.145	1.110	3.1	97	0.00
66 T	1,1,1,2-Tetrachloroethane	0.412	0.415	-0.7	101	0.00
67 C	Ethyl Benzene	1.794	1.888	-5.2#	96	0.00
68 T	m/p-Xylenes	0.682	0.751	-10.1	98	0.00
69 T	o-Xylene	0.648	0.712	-9.9	98	0.00
70 T	Styrene	1.059	1.231	-16.2	99	0.00
71 P	Bromoform	0.306	0.335	-9.5	107	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73 T	Isopropylbenzene	3.425	3.605	-5.3	96	0.00
74 T	N-amyl acetate	1.208	1.326	-9.8	103	0.00
75 P	1,1,2,2-Tetrachloroethane	1.179	1.167	1.0	106	0.00
76 T	1,2,3-Trichloropropane	1.111	0.940	15.4	95	0.00
77 T	Bromobenzene	0.925	0.948	-2.5	101	0.00
78 T	n-propylbenzene	3.923	4.201	-7.1	95	0.00
79 T	2-Chlorotoluene	2.621	2.652	-1.2	97	0.00
80 T	1,3,5-Trimethylbenzene	2.790	3.059	-9.6	96	0.00
81 T	trans-1,4-Dichloro-2-butene	0.381	0.424	-11.3	103	0.00
82 T	4-Chlorotoluene	2.598	2.654	-2.2	96	0.00
83 T	tert-Butylbenzene	2.346	2.521	-7.5	94	0.00
84 T	1,2,4-Trimethylbenzene	2.761	3.098	-12.2	97	0.00
85 T	sec-Butylbenzene	3.315	3.496	-5.5	92	0.00
86 T	p-Isopropyltoluene	2.665	2.952	-10.8	93	0.00
87 T	1,3-Dichlorobenzene	1.734	1.687	2.7	99	0.00
88 T	1,4-Dichlorobenzene	1.777	1.672	5.9	97	0.00
89 T	n-Butylbenzene	2.354	2.333	0.9	88	0.00
90 T	Hexachloroethane	0.628	0.600	4.5	98	0.00
91 T	1,2-Dichlorobenzene	1.667	1.637	1.8	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.216	0.219	-1.4	109	0.00
93 T	1,2,4-Trichlorobenzene	0.794	0.770	3.0	92	0.00
94 T	Hexachlorobutadiene	0.483	0.402	16.8	91	0.00
95 T	Naphthalene	2.181	2.368	-8.6	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.798	0.752	5.8	91	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	44.301	11.4	87	0.00
3 P	Chloromethane	50.000	40.899	18.2	87	0.00
4 C	Vinyl Chloride	50.000	43.513	13.0#	90	0.00
5 T	Bromomethane	50.000	41.881	16.2	89	-0.01
6 T	Chloroethane	50.000	42.204	15.6	94	-0.01
7 T	Trichlorofluoromethane	50.000	45.717	8.6	97	0.00
8 T	Diethyl Ether	50.000	47.308	5.4	94	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.677	6.6	97	0.00
10 T	Methyl Iodide	50.000	48.356	3.3	97	0.00
11 T	Tert butyl alcohol	250.000	282.203	-12.9	111	0.01
12 CM	1,1-Dichloroethene	50.000	46.868	6.3#	94	0.00
13 T	Acrolein	250.000	265.790	-6.3	96	0.00
14 T	Allyl chloride	50.000	44.141	11.7	89	0.00
15 T	Acrylonitrile	250.000	258.588	-3.4	106	0.00
16 T	Acetone	250.000	256.442	-2.6	111	0.00
17 T	Carbon Disulfide	50.000	39.606	20.8	85	0.00
18 T	Methyl Acetate	50.000	51.202	-2.4	113	0.00
19 T	Methyl tert-butyl Ether	50.000	52.233	-4.5	99	0.00
20 T	Methylene Chloride	50.000	44.984	10.0	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.768	8.5	95	0.00
22 T	Diisopropyl ether	50.000	49.509	1.0	95	0.00
23 T	Vinyl Acetate	250.000	251.472	-0.6	97	0.00
24 P	1,1-Dichloroethane	50.000	46.236	7.5	96	0.00
25 T	2-Butanone	250.000	272.647	-9.1	108	0.01
26 T	2,2-Dichloropropane	50.000	47.094	5.8	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.145	5.7	95	0.00
28 T	Bromochloromethane	50.000	45.130	9.7	89	0.00
29 T	Tetrahydrofuran	250.000	277.958	-11.2	107	0.00
30 C	Chloroform	50.000	46.953	6.1#	98	0.00
31 T	Cyclohexane	50.000	41.631	16.7	87	0.00
32 T	1,1,1-Trichloroethane	50.000	47.064	5.9	97	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.374	1.3	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35 S	Dibromofluoromethane	50.000	52.199	-4.4	103	0.00
36 T	1,1-Dichloropropene	50.000	48.792	2.4	94	0.00
37 T	Ethyl Acetate	50.000	54.442	-8.9	106	0.00
38 T	Carbon Tetrachloride	50.000	48.556	2.9	97	0.00
39 T	Methylcyclohexane	50.000	48.357	3.3	85	0.00
40 TM	Benzene	50.000	47.961	4.1	94	0.00
41 T	Methacrylonitrile	50.000	54.860	-9.7	99	0.00
42 TM	1,2-Dichloroethane	50.000	48.849	2.3	99	0.00
43 T	Isopropyl Acetate	50.000	50.669	-1.3	102	0.00
44 TM	Trichloroethene	50.000	47.117	5.8	97	0.00
45 C	1,2-Dichloropropane	50.000	48.741	2.5#	96	0.00
46 T	Dibromomethane	50.000	49.614	0.8	99	0.00
47 T	Bromodichloromethane	50.000	49.154	1.7	98	0.00
48 T	Methyl methacrylate	50.000	55.219	-10.4	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1348.716	-34.9#	120	0.00
50 S	Toluene-d8	50.000	52.923	-5.8	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	294.439	-17.8	109	0.00
52 CM	Toluene	50.000	52.028	-4.1#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	52.451	-4.9	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.010	-4.0	96	0.00
55 T	1,1,2-Trichloroethane	50.000	51.140	-2.3	102	0.00
56 T	Ethyl methacrylate	50.000	53.925	-7.8	104	0.00
57 T	1,3-Dichloropropane	50.000	51.613	-3.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	295.691	-18.3	133	0.00
59 T	2-Hexanone	250.000	307.699	-23.1	109	0.00
60 T	Dibromochloromethane	50.000	53.851	-7.7	103	0.00
61 T	1,2-Dibromoethane	50.000	53.137	-6.3	103	0.00
62 S	4-Bromofluorobenzene	50.000	56.118	-12.2	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	47.036	5.9	98	0.00
65 PM	Chlorobenzene	50.000	48.466	3.1	97	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.366	-0.7	101	0.00
67 C	Ethyl Benzene	50.000	52.612	-5.2#	96	0.00
68 T	m/p-Xylenes	100.000	110.148	-10.1	98	0.00
69 T	o-Xylene	50.000	54.979	-10.0	98	0.00
70 T	Styrene	50.000	50.949	-1.9	99	0.00
71 P	Bromoform	50.000	54.751	-9.5	107	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73 T	Isopropylbenzene	50.000	52.624	-5.2	96	0.00
74 T	N-ethyl acetate	50.000	54.898	-9.8	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.503	1.0	106	0.00
76 T	1,2,3-Trichloropropane	50.000	42.297	15.4	95	0.00
77 T	Bromobenzene	50.000	51.245	-2.5	101	0.00
78 T	n-propylbenzene	50.000	53.548	-7.1	95	0.00
79 T	2-Chlorotoluene	50.000	50.582	-1.2	97	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.809	-9.6	96	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.714	-11.4	103	0.00
82 T	4-Chlorotoluene	50.000	51.077	-2.2	96	0.00
83 T	tert-Butylbenzene	50.000	53.720	-7.4	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	56.106	-12.2	97	0.00
85 T	sec-Butylbenzene	50.000	52.717	-5.4	92	0.00
86 T	p-Isopropyltoluene	50.000	48.701	2.6	93	0.00
87 T	1,3-Dichlorobenzene	50.000	48.641	2.7	99	0.00
88 T	1,4-Dichlorobenzene	50.000	47.056	5.9	97	0.00
89 T	n-Butylbenzene	50.000	49.562	0.9	88	0.00
90 T	Hexachloroethane	50.000	47.768	4.5	98	0.00
91 T	1,2-Dichlorobenzene	50.000	49.101	1.8	100	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.581	-1.2	109	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.435	3.1	92	0.00
94 T	Hexachlorobutadiene	50.000	41.603	16.8	91	0.00
95 T	Naphthalene	50.000	54.292	-8.6	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085862.D
Acq On : 26 Feb 2025 10:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Feb 27 02:26:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	47.124	5.8	91	0.00

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



QC SAMPLE DATA

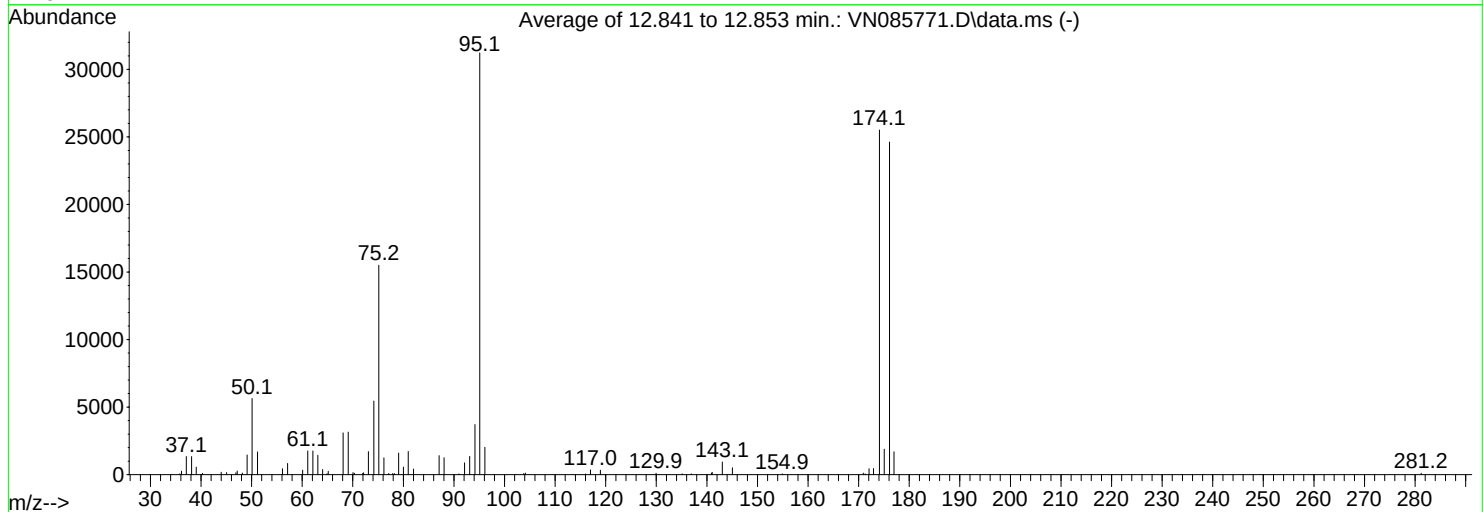
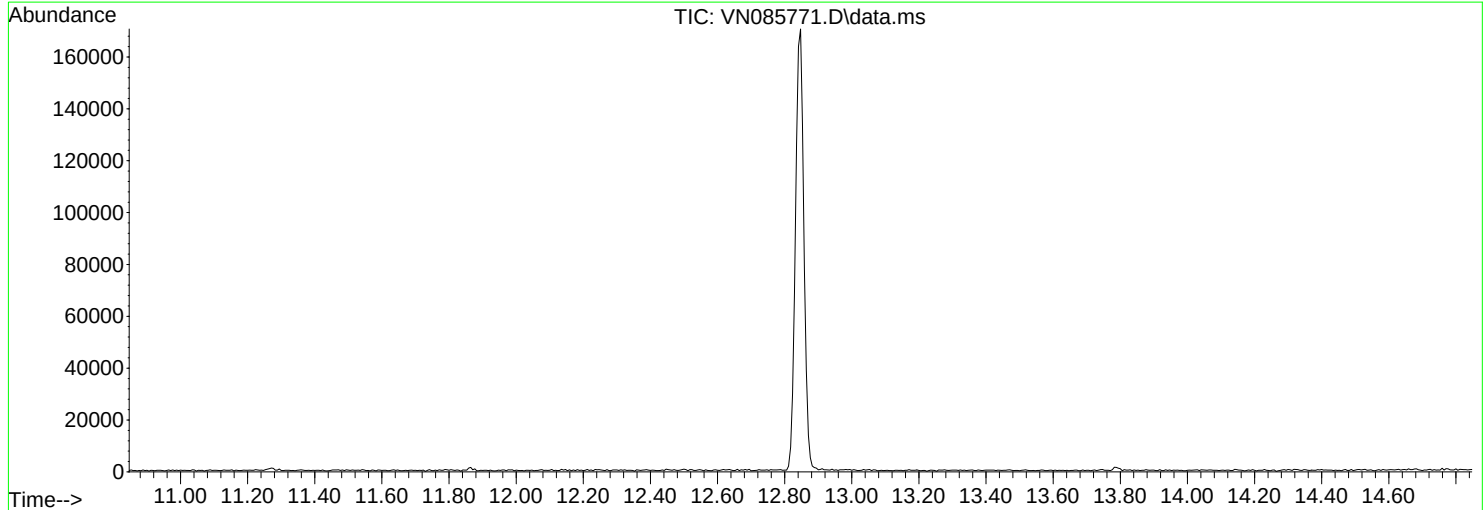
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021825\
Data File : VN085771.D
Acq On : 18 Feb 2025 10:35
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

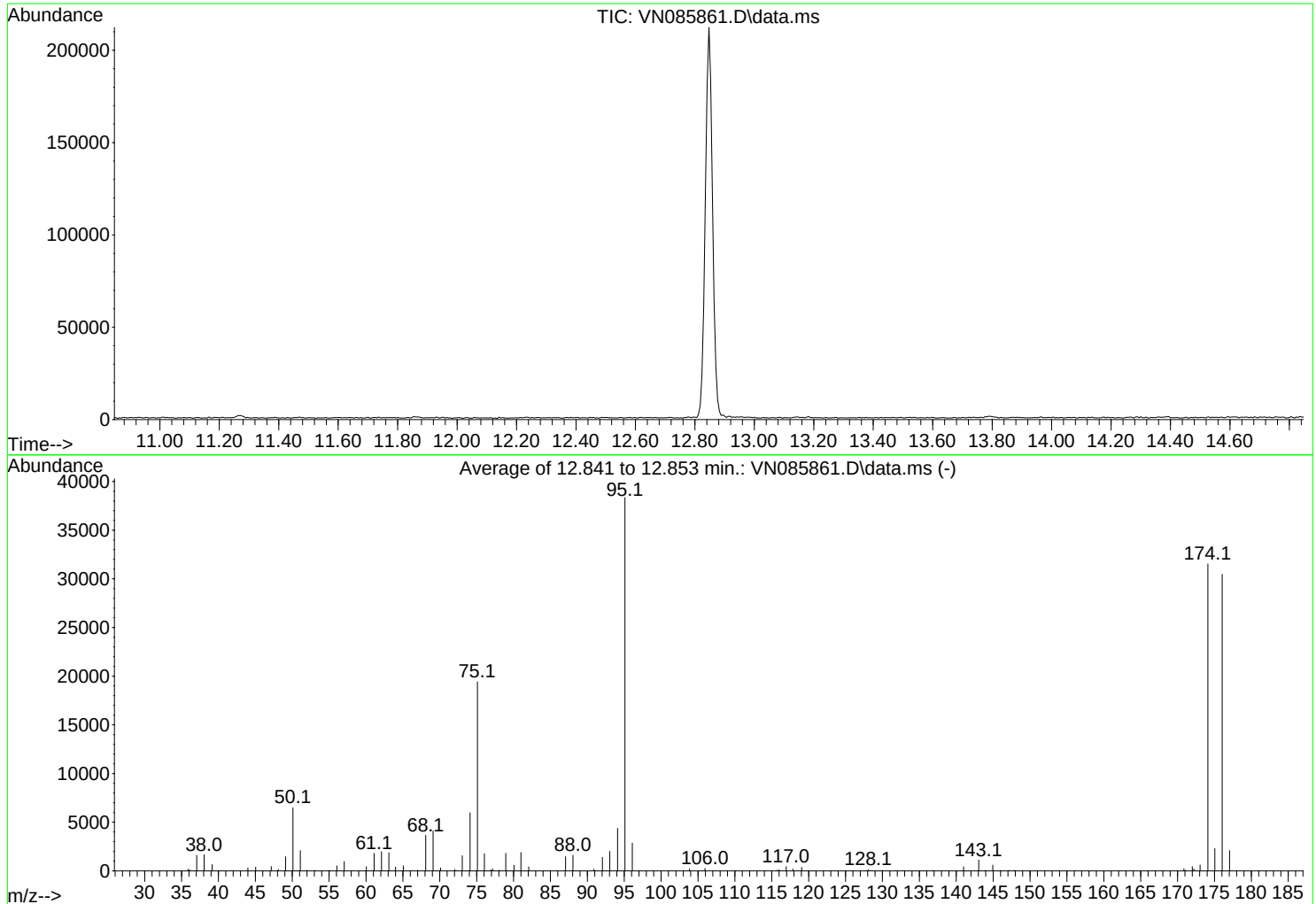
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.1	5643	PASS
75	95	30	60	49.7	15509	PASS
95	95	100	100	100.0	31224	PASS
96	95	5	9	6.5	2024	PASS
173	174	0.00	2	1.8	452	PASS
174	95	50	100	81.7	25509	PASS
175	174	5	9	7.4	1882	PASS
176	174	95	101	96.5	24621	PASS
177	176	5	9	6.9	1699	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085861.D
Acq On : 26 Feb 2025 10:08
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260
Last Update : Wed Feb 19 03:43:32 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	16.9	6493	PASS
75	95	30	60	50.6	19424	PASS
95	95	100	100	100.0	38363	PASS
96	95	5	9	7.5	2866	PASS
173	174	0.00	2	1.9	610	PASS
174	95	50	100	82.2	31531	PASS
175	174	5	9	7.3	2299	PASS
176	174	95	101	96.6	30467	PASS
177	176	5	9	6.9	2091	PASS

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VN0226WBL01	SDG No.:	Q1421
Lab Sample ID:	VN0226WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085864.D	1		02/26/25 12:09	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VN0226WBL01	SDG No.:	Q1421
Lab Sample ID:	VN0226WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085864.D	1		02/26/25 12:09	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	46.3		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	270000	8.224			
540-36-3	1,4-Difluorobenzene	493000	9.1			
3114-55-4	Chlorobenzene-d5	432000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0226WBL01		SDG No.:	Q1421
Lab Sample ID:	VN0226WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085864.D	1		02/26/25 12:09	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085864.D
Acq On : 26 Feb 2025 12:09
Operator : JC\MD
Sample : VN0226WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBL01

Quant Time: Feb 26 22:51:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	270093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	493199	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	432412	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	165756	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	186374	53.224	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	106.440%
35) Dibromofluoromethane	8.165	113	162991	50.505	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.000%
50) Toluene-d8	10.565	98	543688	46.304	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.600%
62) 4-Bromofluorobenzene	12.847	95	175574	45.384	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	90.760%

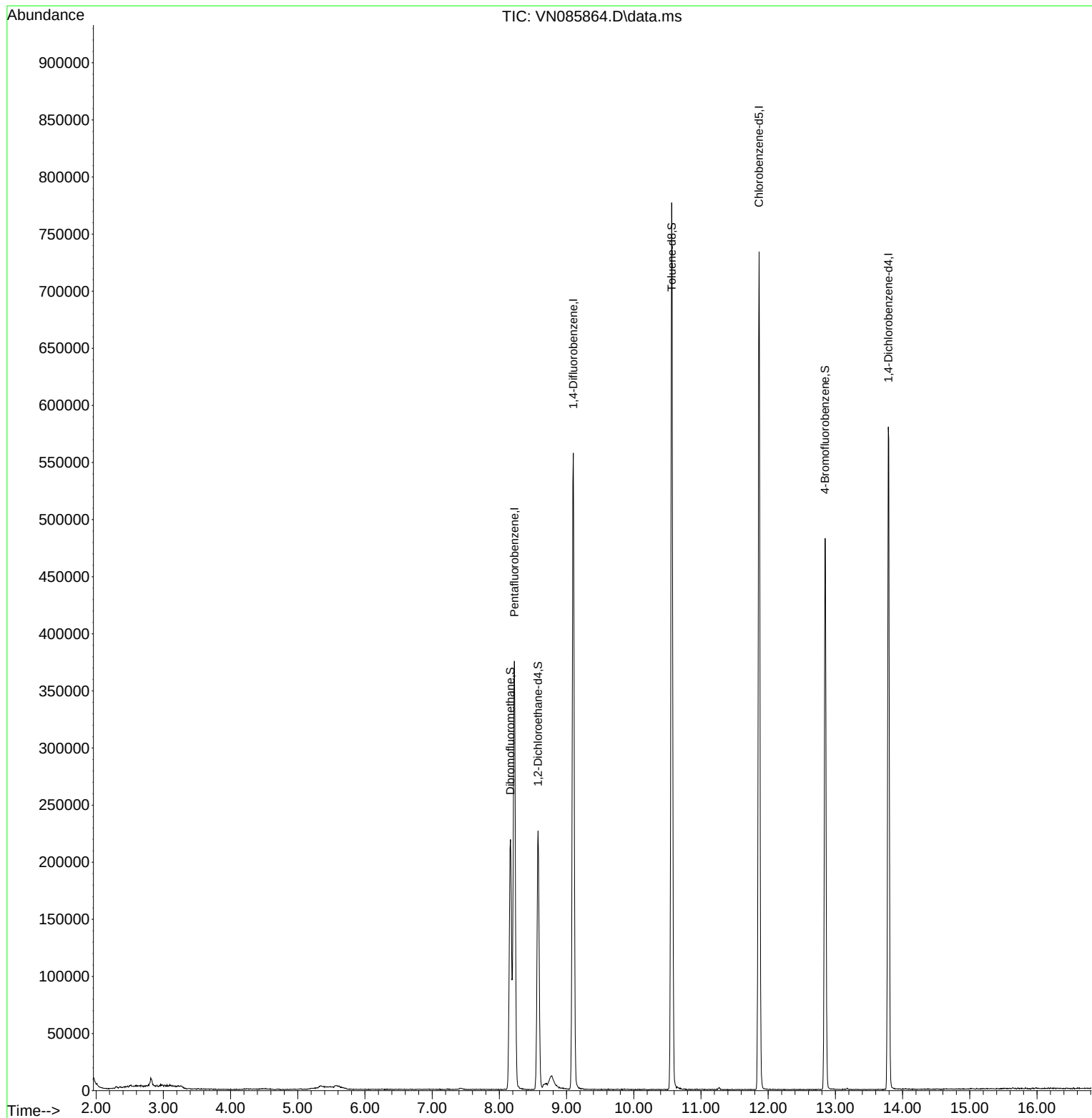
Target Compounds	Qvalue

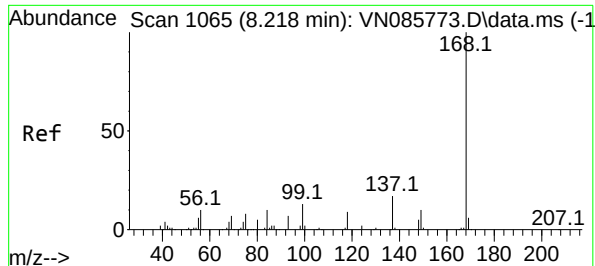
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085864.D
Acq On : 26 Feb 2025 12:09
Operator : JC\MD
Sample : VN0226WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBL01

Quant Time: Feb 26 22:51:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

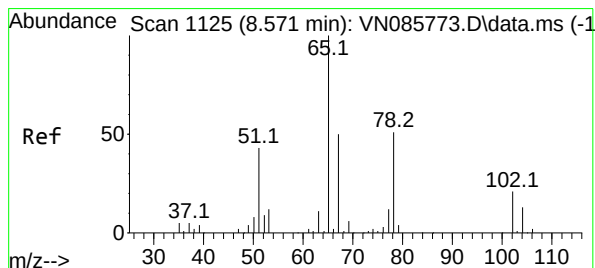
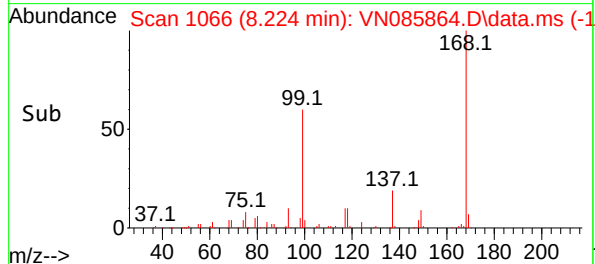
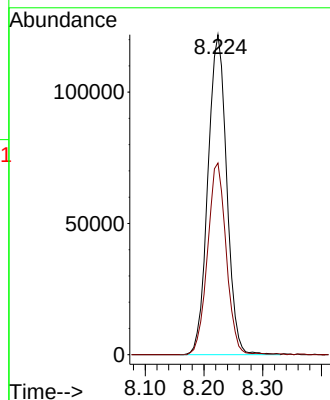
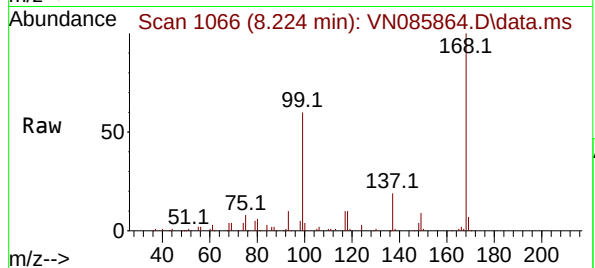




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VN085864.D
Acq: 26 Feb 2025 12:09

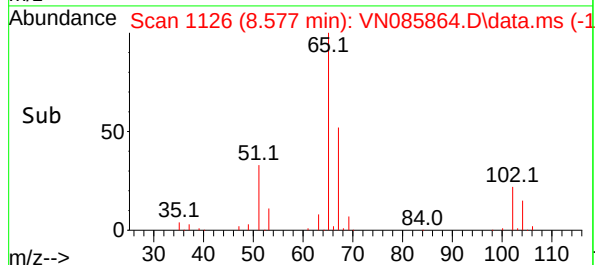
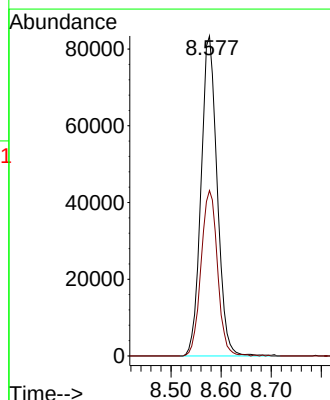
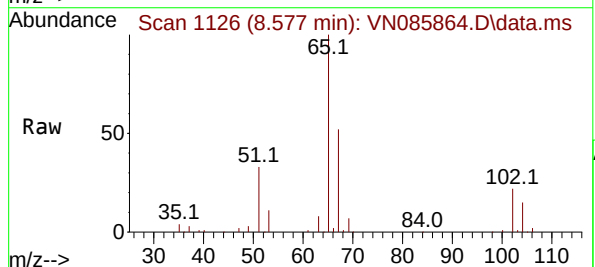
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBL01

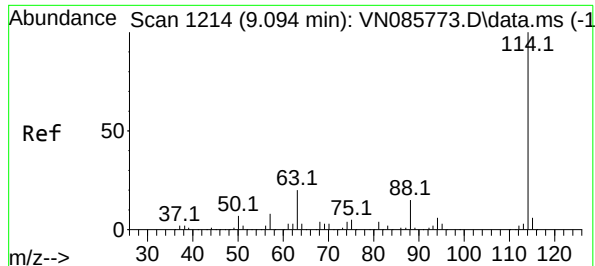
Tgt Ion:168 Resp: 270093
Ion Ratio Lower Upper
168 100
99 59.9 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 53.224 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085864.D
Acq: 26 Feb 2025 12:09

Tgt Ion: 65 Resp: 186374
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085864.D

Acq: 26 Feb 2025 12:09

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBL01

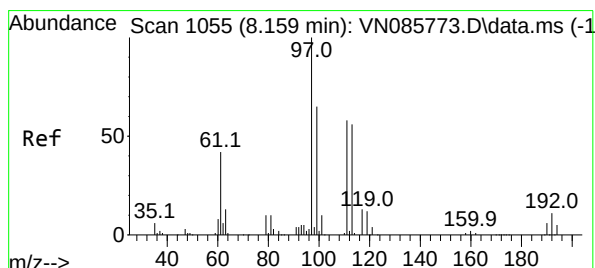
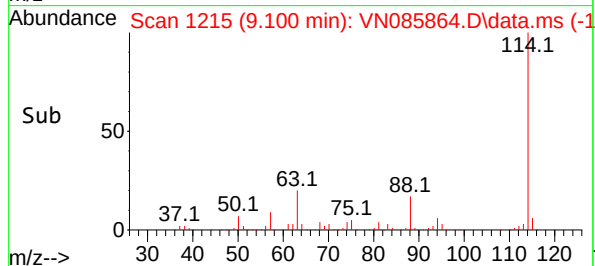
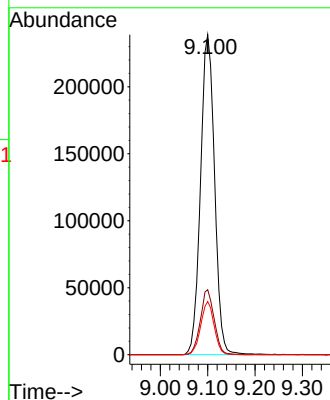
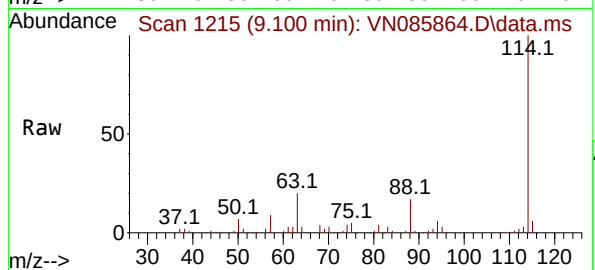
Tgt Ion:114 Resp: 493199

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.2

88 16.6 0.0 30.0



#35

Dibromofluoromethane

Concen: 50.505 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085864.D

Acq: 26 Feb 2025 12:09

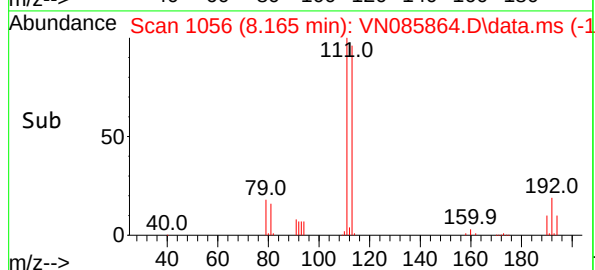
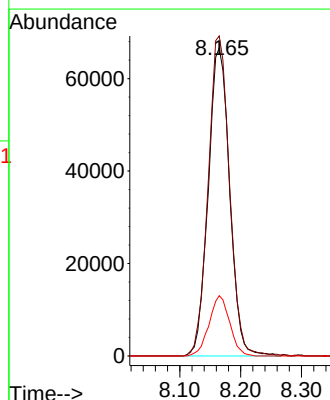
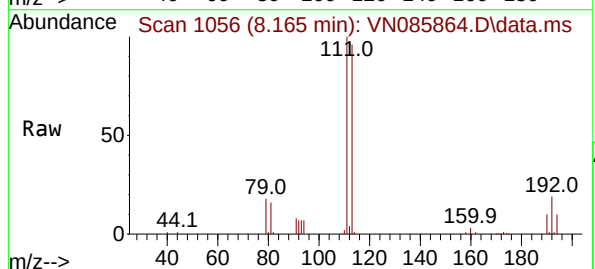
Tgt Ion:113 Resp: 162991

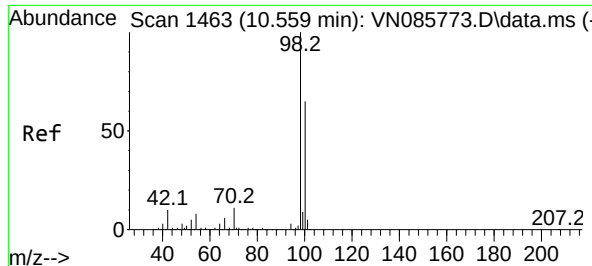
Ion Ratio Lower Upper

113 100

111 103.6 82.2 123.4

192 18.8 14.7 22.1





#50

Toluene-d8

Concen: 46.304 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085864.D

Acq: 26 Feb 2025 12:09

Instrument :

MSVOA_N

ClientSampleId :

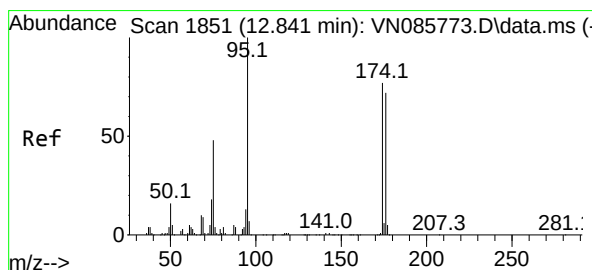
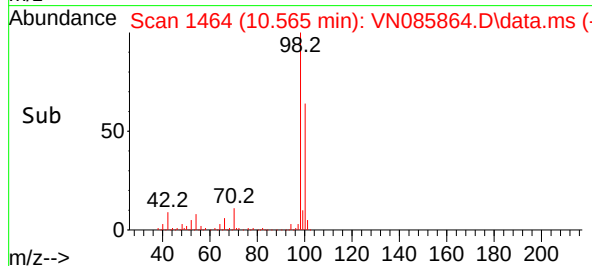
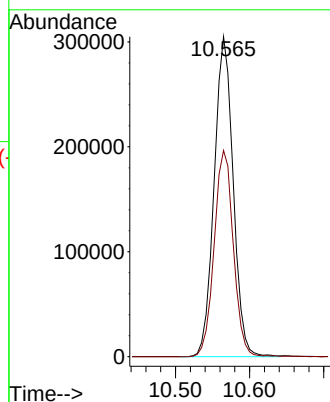
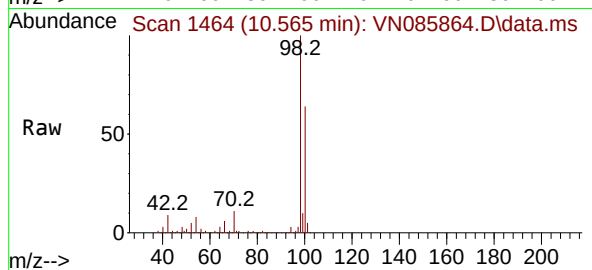
VN0226WBL01

Tgt Ion: 98 Resp: 543688

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 45.384 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.006 min

Lab File: VN085864.D

Acq: 26 Feb 2025 12:09

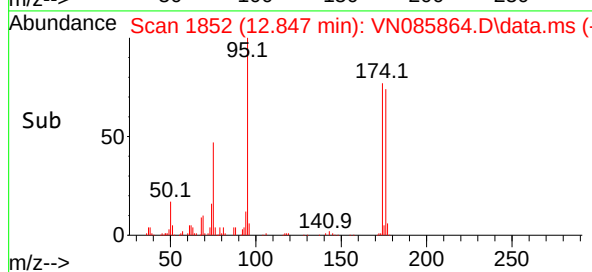
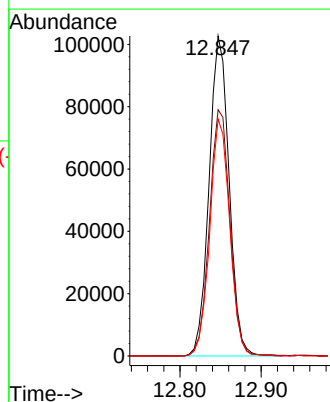
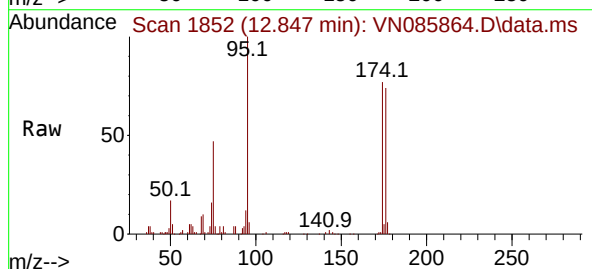
Tgt Ion: 95 Resp: 175574

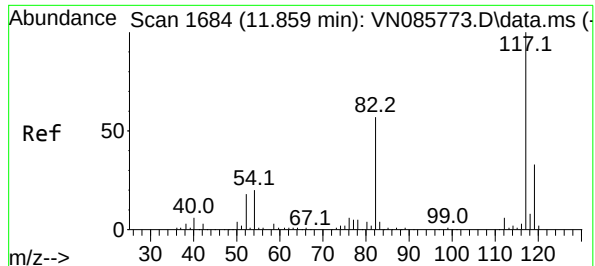
Ion Ratio Lower Upper

95 100

174 78.8 0.0 152.4

176 73.7 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085864.D

Acq: 26 Feb 2025 12:09

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBL01

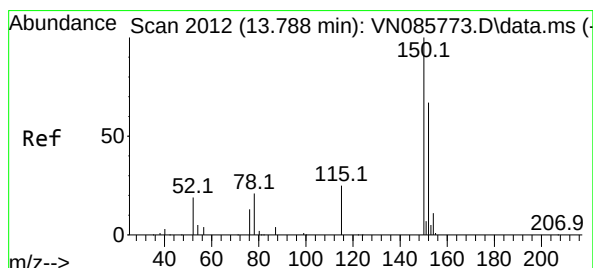
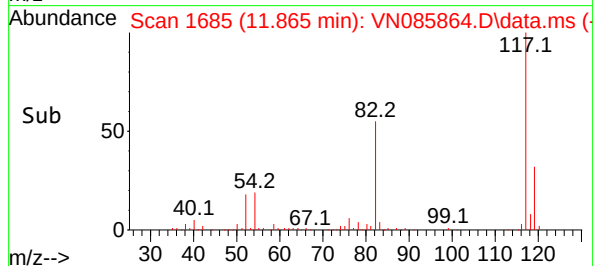
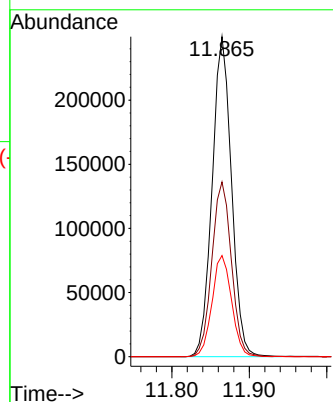
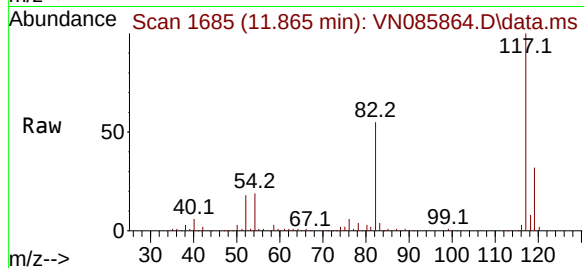
Tgt Ion:117 Resp: 432412

Ion Ratio Lower Upper

117 100

82 54.6 45.7 68.5

119 31.6 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085864.D

Acq: 26 Feb 2025 12:09

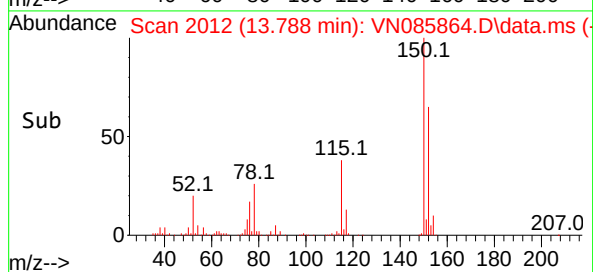
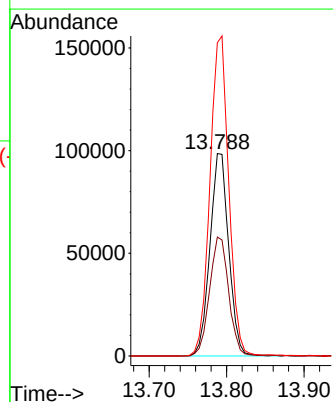
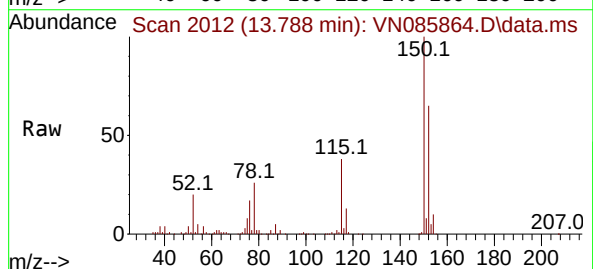
Tgt Ion:152 Resp: 165756

Ion Ratio Lower Upper

152 100

115 59.8 30.4 91.3

150 157.7 0.0 345.4



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0226WBS01		SDG No.:	Q1421
Lab Sample ID:	VN0226WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085865.D	1		02/26/25 12:33	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.7		0.21	1.00	ug/L
74-87-3	Chloromethane	16.4		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.6		0.34	1.00	ug/L
74-83-9	Bromomethane	17.2		1.40	5.00	ug/L
75-00-3	Chloroethane	17.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.6		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.3		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.4		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.7		0.18	1.00	ug/L
67-66-3	Chloroform	18.7		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.6		0.19	1.00	ug/L
71-43-2	Benzene	18.4		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.0		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	18.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	19.7		0.18	1.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	VN0226WBS01	SDG No.:	Q1421
Lab Sample ID:	VN0226WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	SPLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085865.D	1		02/26/25 12:33	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.4		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	18.7		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	39.7		0.31	2.00	ug/L
95-47-6	o-Xylene	19.8		0.14	1.00	ug/L
100-42-5	Styrene	19.4		0.16	1.00	ug/L
75-25-2	Bromoform	21.2		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.1		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.9		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.8		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.5		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	313000	8.224			
540-36-3	1,4-Difluorobenzene	518000	9.1			
3114-55-4	Chlorobenzene-d5	454000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	220000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN0226WBS01		SDG No.:	Q1421
Lab Sample ID:	VN0226WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085865.D	1		02/26/25 12:33	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085865.D
 Acq On : 26 Feb 2025 12:33
 Operator : JC\MD
 Sample : VN0226WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0226WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 22:52:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	312752	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	518107	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	453898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	219511	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	193678	47.766	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.540%
35) Dibromofluoromethane	8.165	113	169328	49.946	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.900%
50) Toluene-d8	10.565	98	622907	50.500	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.000%
62) 4-Bromofluorobenzene	12.847	95	215283	52.973	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.940%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	75360	17.715	ug/l	98
3) Chloromethane	2.359	50	70069	16.414	ug/l	99
4) Vinyl Chloride	2.506	62	79574	17.606	ug/l	97
5) Bromomethane	2.953	94	49659	17.183	ug/l	92
6) Chloroethane	3.118	64	51421	17.176	ug/l	96
7) Trichlorofluoromethane	3.495	101	118570	18.119	ug/l	97
8) Diethyl Ether	3.959	74	38679	18.268	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	69263	18.311	ug/l	98
10) Methyl Iodide	4.583	142	85864	18.415	ug/l	96
11) Tert butyl alcohol	5.518	59	59355	119.019	ug/l	100
12) 1,1-Dichloroethene	4.342	96	63121	18.404	ug/l	95
13) Acrolein	4.183	56	65298	88.295	ug/l	96
14) Allyl chloride	5.018	41	77202	17.145	ug/l	99
15) Acrylonitrile	5.712	53	171911	106.037	ug/l	98
16) Acetone	4.424	43	134811	105.076	ug/l	99
17) Carbon Disulfide	4.712	76	157975	15.541	ug/l	99
18) Methyl Acetate	5.024	43	93967	21.294	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	199254	19.551	ug/l	98
20) Methylene Chloride	5.277	84	74729	18.112	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	65493	17.734	ug/l	93
22) Diisopropyl ether	6.671	45	198185	19.478	ug/l	98
23) Vinyl Acetate	6.606	43	638255	91.613	ug/l	99
24) 1,1-Dichloroethane	6.571	63	126402	18.274	ug/l	98
25) 2-Butanone	7.482	43	204148	108.157	ug/l	95
26) 2,2-Dichloropropane	7.482	77	112867	18.351	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	80073	18.700	ug/l	97
28) Bromochloromethane	7.812	49	61736	21.716	ug/l	98
29) Tetrahydrofuran	7.841	42	138037	113.252	ug/l	99
30) Chloroform	7.965	83	134873	18.659	ug/l	95
31) Cyclohexane	8.253	56	94804	16.370	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	118506	18.432	ug/l	98
36) 1,1-Dichloropropene	8.371	75	86096	17.944	ug/l	98
37) Ethyl Acetate	7.559	43	83494	21.145	ug/l	98
38) Carbon Tetrachloride	8.359	117	106216	18.631	ug/l	96
39) Methylcyclohexane	9.600	83	78322	16.616	ug/l	98
40) Benzene	8.606	78	283517	18.436	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085865.D
 Acq On : 26 Feb 2025 12:33
 Operator : JC\MD
 Sample : VN0226WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0226WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 22:52:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.782	41	44914	21.278	ug/l	98
42) 1,2-Dichloroethane	8.671	62	95308	19.027	ug/l	99
43) Isopropyl Acetate	8.688	43	138339	19.632	ug/l	99
44) Trichloroethene	9.347	130	67909	17.985	ug/l	95
45) 1,2-Dichloropropane	9.618	63	69780	18.798	ug/l	100
46) Dibromomethane	9.706	93	50809	19.405	ug/l	98
47) Bromodichloromethane	9.888	83	106077	18.936	ug/l	96
48) Methyl methacrylate	9.682	41	59874	20.418	ug/l	96
49) 1,4-Dioxane	9.694	88	30529	547.469	ug/l	96
51) 4-Methyl-2-Pentanone	10.441	43	437085	114.812	ug/l	99
52) Toluene	10.629	92	177804	19.724	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	100480	19.398	ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	109665	19.307	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	70189	19.583	ug/l	97
56) Ethyl methacrylate	10.871	69	97284	20.511	ug/l	97
57) 1,3-Dichloropropane	11.159	76	116364	19.449	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	184371	107.576	ug/l	97
59) 2-Hexanone	11.194	43	313350	119.646	ug/l	99
60) Dibromochloromethane	11.359	129	85035	20.375	ug/l	99
61) 1,2-Dibromoethane	11.465	107	68698	20.286	ug/l	99
64) Tetrachloroethene	11.100	164	64220	18.263	ug/l	95
65) Chlorobenzene	11.888	112	194568	18.712	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.959	131	73832	19.755	ug/l	99
67) Ethyl Benzene	11.965	91	305041	18.728	ug/l	100
68) m/p-Xylenes	12.070	106	245872	39.740	ug/l	98
69) o-Xylene	12.400	106	116210	19.766	ug/l	96
70) Styrene	12.412	104	196309	19.409	ug/l	100
71) Bromoform	12.576	173	58751	21.155	ug/l #	99
73) Isopropylbenzene	12.694	105	288544	19.187	ug/l	100
74) N-amyl acetate	12.494	43	105522	19.898	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	104227	20.141	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	95683m	19.623	ug/l	
77) Bromobenzene	12.982	156	76746	18.889	ug/l	95
78) n-propylbenzene	13.035	91	332686	19.317	ug/l	100
79) 2-Chlorotoluene	13.123	91	215354	18.715	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	244262	19.939	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	34224	20.479	ug/l	95
82) 4-Chlorotoluene	13.217	91	214477	18.801	ug/l	97
83) tert-Butylbenzene	13.435	119	193163	18.751	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	243615	20.100	ug/l	100
85) sec-Butylbenzene	13.617	105	273586	18.797	ug/l	99
86) p-Isopropyltoluene	13.729	119	224324	18.120	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	137342	18.043	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	139430	17.871	ug/l	98
89) n-Butylbenzene	14.053	91	167954	16.253	ug/l	98
90) Hexachloroethane	14.329	117	49330	17.896	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	135611	18.526	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	19002	19.996	ug/l	97
93) 1,2,4-Trichlorobenzene	15.394	180	58641	16.812	ug/l	99
94) Hexachlorobutadiene	15.500	225	32894	15.517	ug/l	98
95) Naphthalene	15.641	128	167813	17.524	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	59740	17.060	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085865.D
Acq On : 26 Feb 2025 12:33
Operator : JC\MD
Sample : VN0226WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 22:52:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

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

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

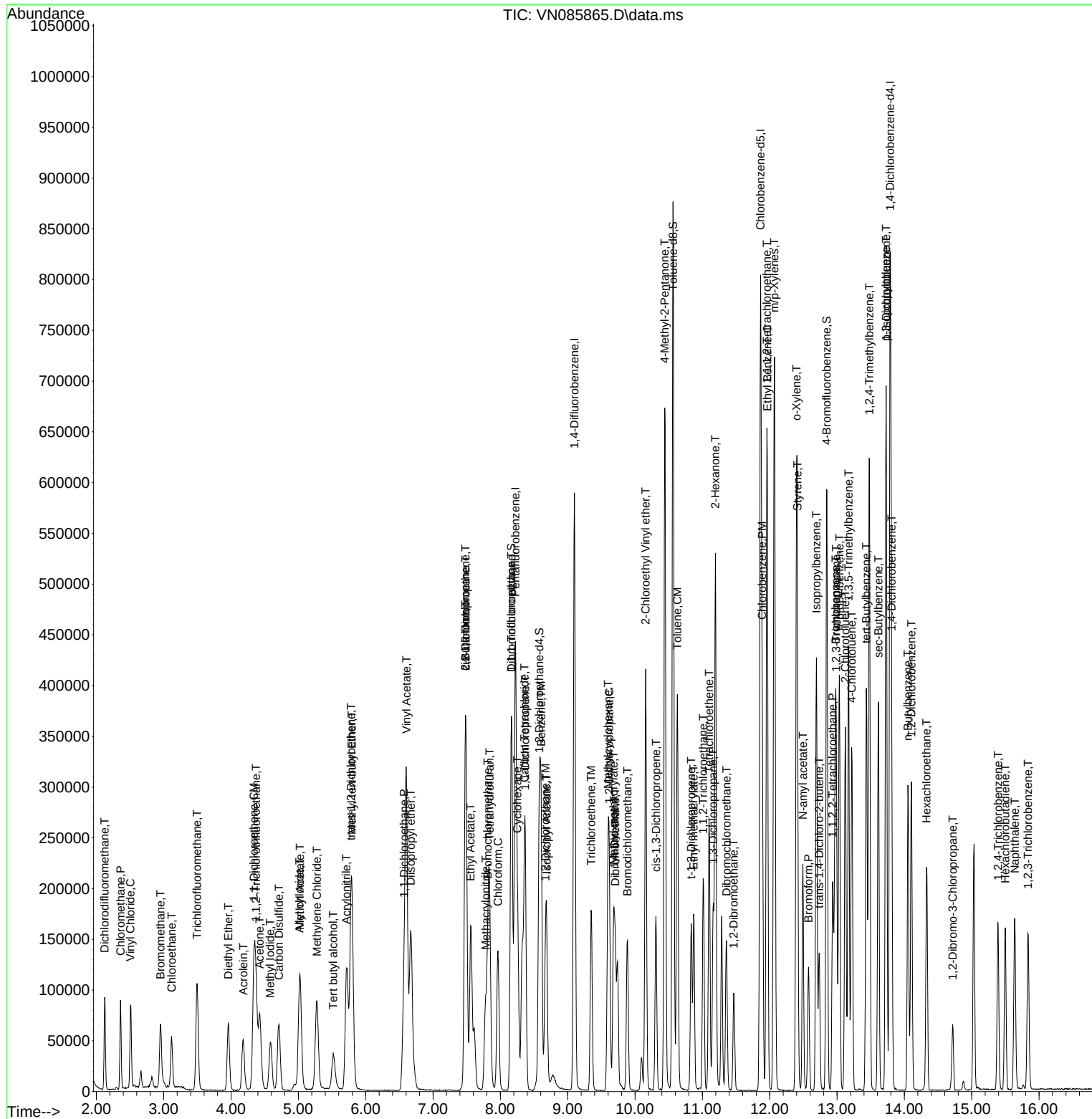
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Data File : VN085865.D
Acq On : 26 Feb 2025 12:33
Operator : JC\MD
Sample : VN0226WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

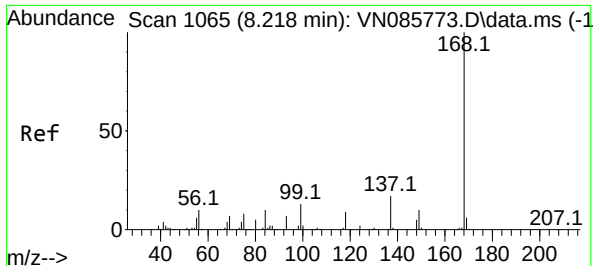
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Manual Integrations

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 22:52:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration





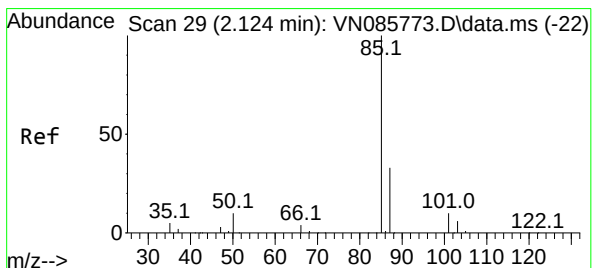
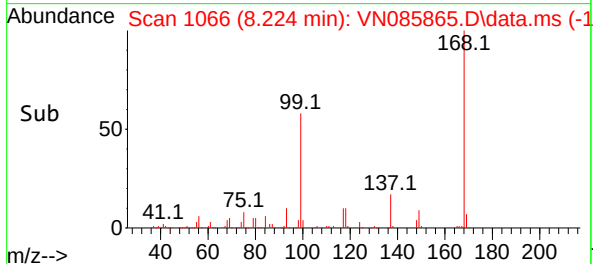
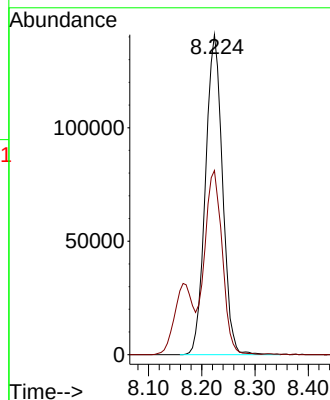
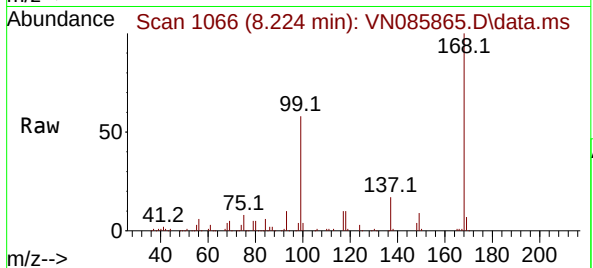
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:168 Resp: 31275
Ion Ratio Lower Upper
168 100
99 57.4 47.9 71.9

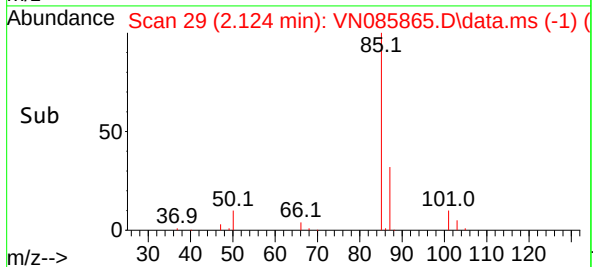
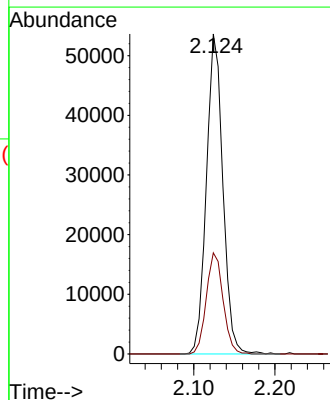
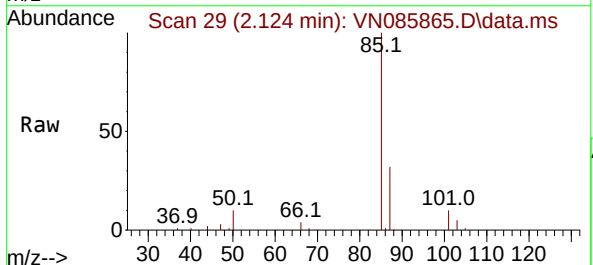
Manual Integrations
APPROVED

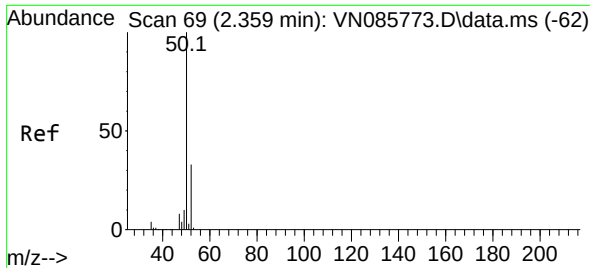
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 17.715 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

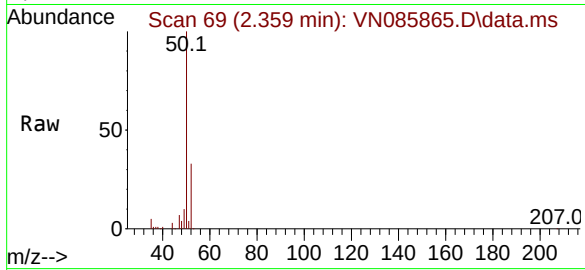
Tgt Ion: 85 Resp: 75360
Ion Ratio Lower Upper
85 100
87 31.6 16.4 49.2





#3
Chloromethane
Concen: 16.414 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

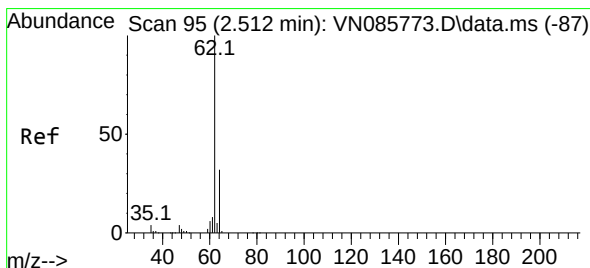
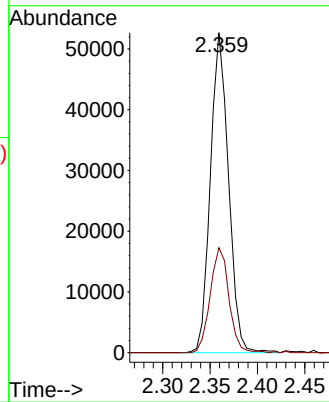
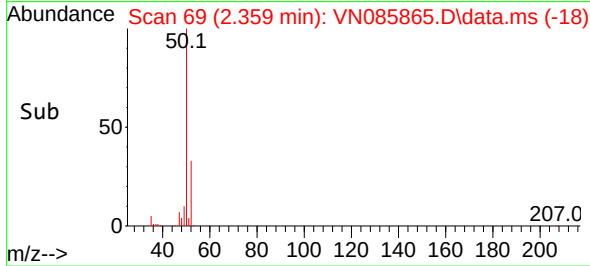
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion: 50 Resp: 70069
Ion Ratio Lower Upper
50 100
52 32.8 26.7 40.1

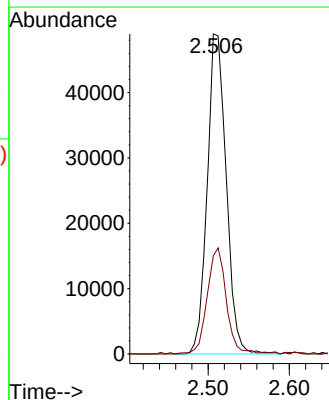
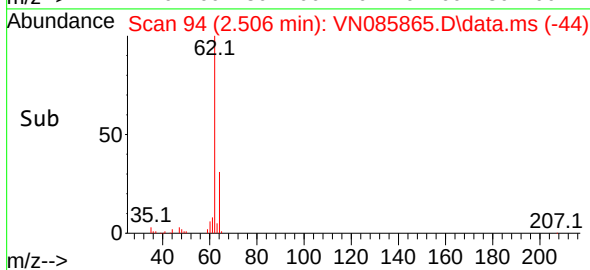
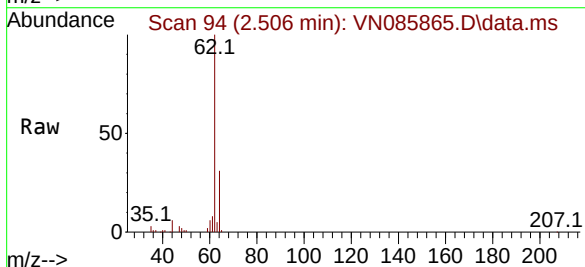
Manual Integrations
APPROVED

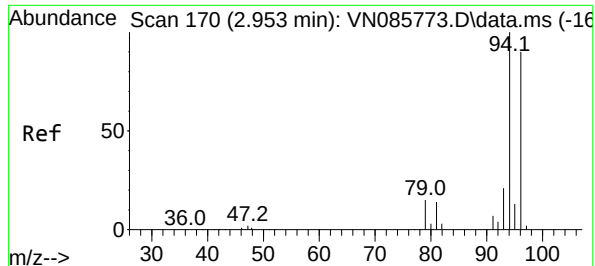
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Vinyl Chloride
Concen: 17.606 ug/l
RT: 2.506 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 62 Resp: 79574
Ion Ratio Lower Upper
62 100
64 30.6 25.9 38.9





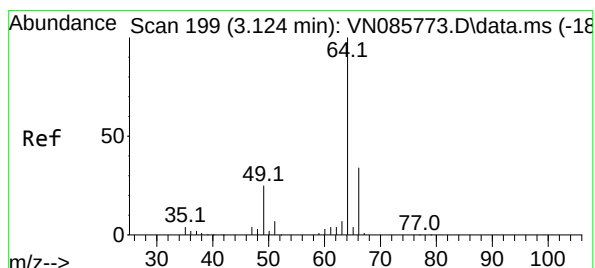
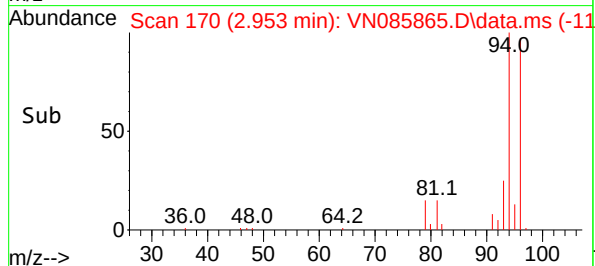
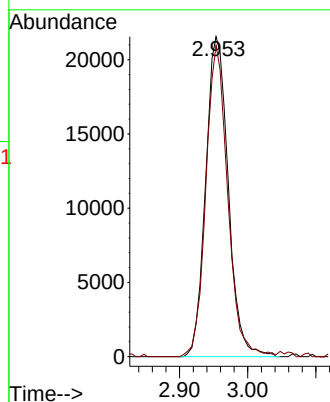
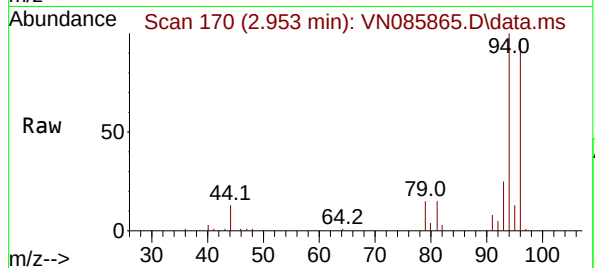
#5
Bromomethane
Concen: 17.183 ug/l
RT: 2.953 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion: 94 Resp: 49659
Ion Ratio Lower Upper
94 100
96 97.3 71.7 107.5

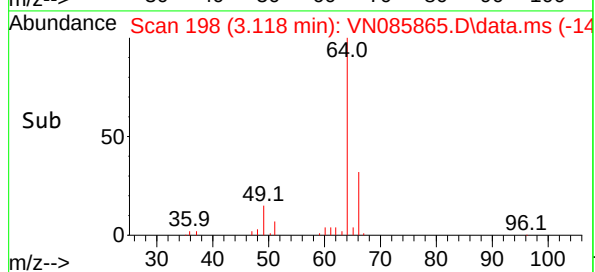
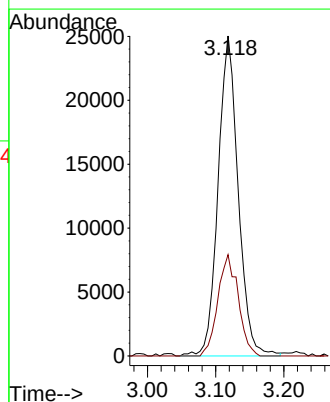
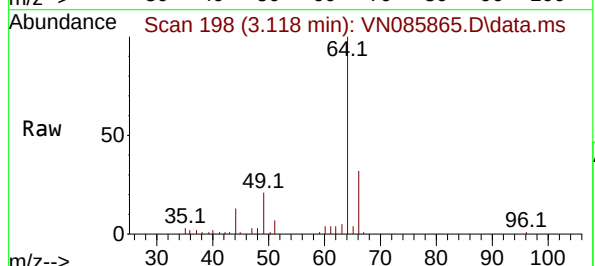
Manual Integrations
APPROVED

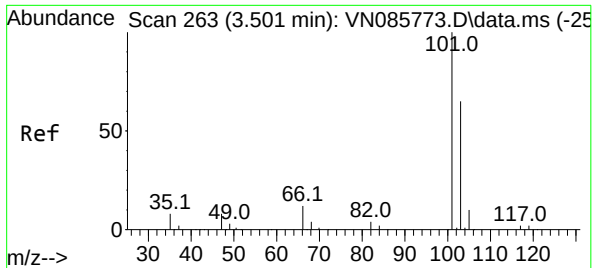
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#6
Chloroethane
Concen: 17.176 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

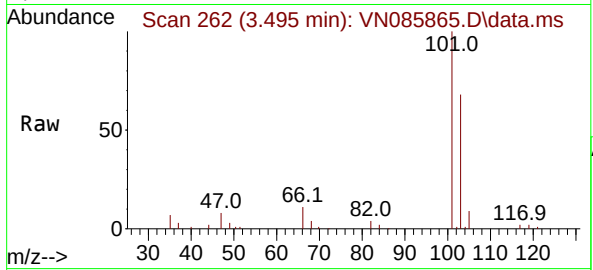
Tgt Ion: 64 Resp: 51421
Ion Ratio Lower Upper
64 100
66 31.6 27.0 40.6





#7
Trichlorofluoromethane
Concen: 18.119 ug/l
RT: 3.495 min Scan# 262
Delta R.T. -0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

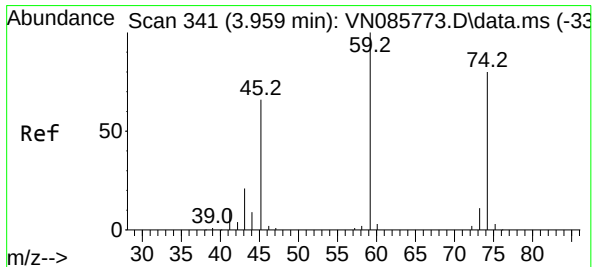
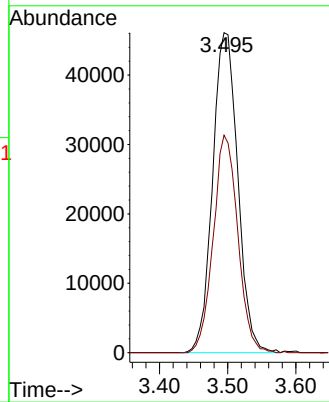
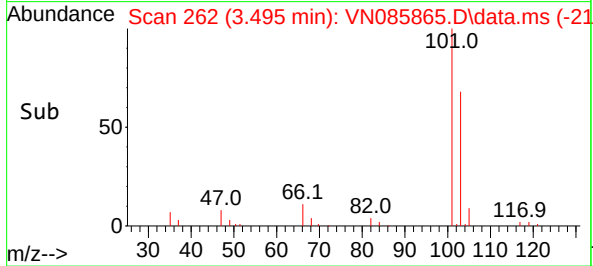
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion:101 Resp: 118570
Ion Ratio Lower Upper
101 100
103 68.0 52.2 78.4

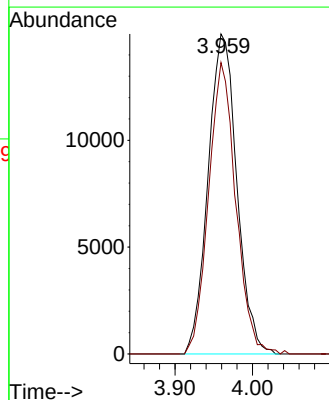
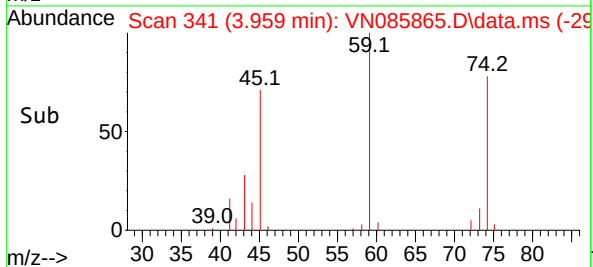
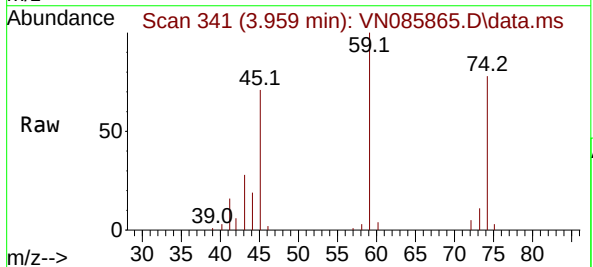
Manual Integrations
APPROVED

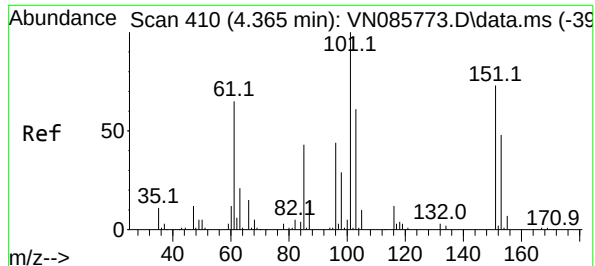
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#8
Diethyl Ether
Concen: 18.268 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 74 Resp: 38679
Ion Ratio Lower Upper
74 100
45 86.0 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.311 ug/l

RT: 4.371 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion:101 Resp: 6926

Ion Ratio Lower Upper

101 100

85 43.4 35.7 53.5

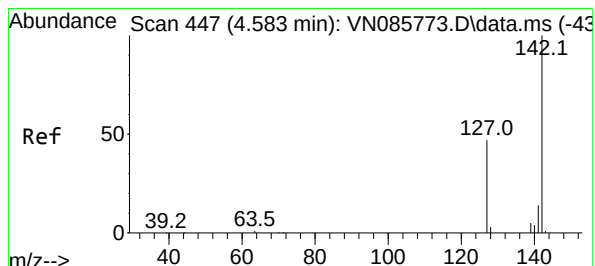
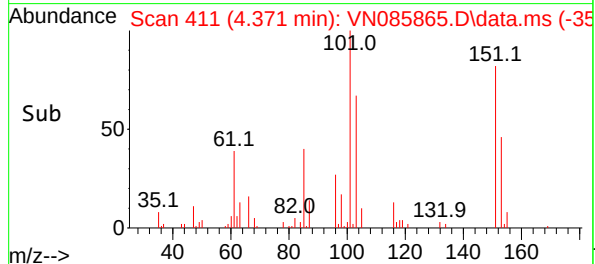
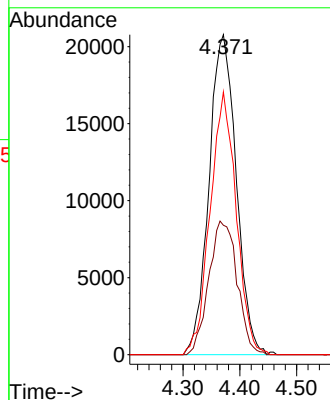
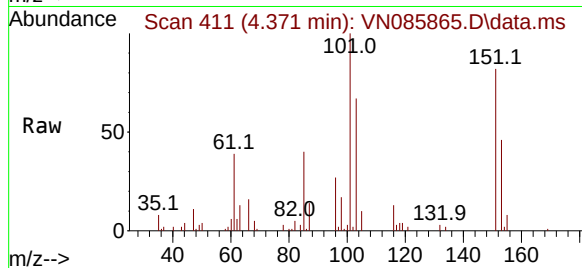
151 78.5 61.4 92.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#10

Methyl Iodide

Concen: 18.415 ug/l

RT: 4.583 min Scan# 447

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

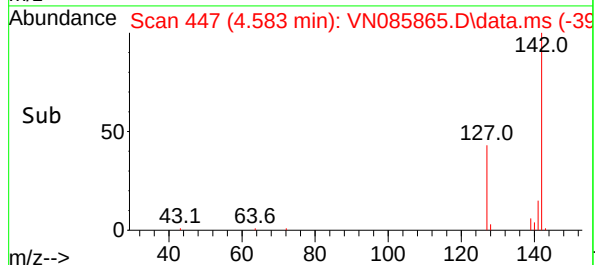
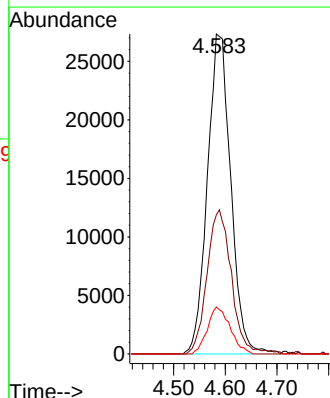
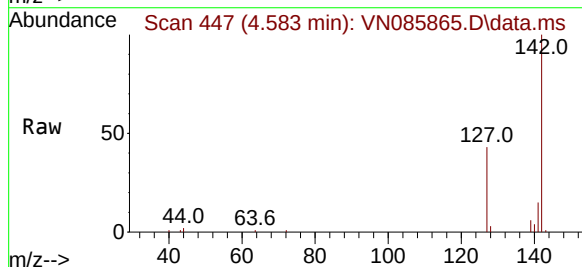
Tgt Ion:142 Resp: 85864

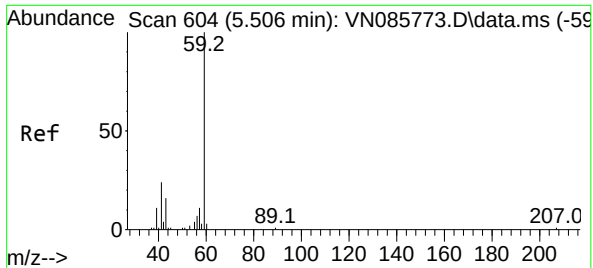
Ion Ratio Lower Upper

142 100

127 43.4 37.6 56.4

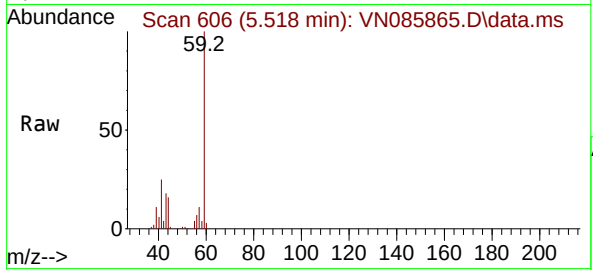
141 14.7 11.4 17.2





#11
Tert butyl alcohol
Concen: 119.019 ug/l
RT: 5.518 min Scan# 604
Delta R.T. 0.012 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

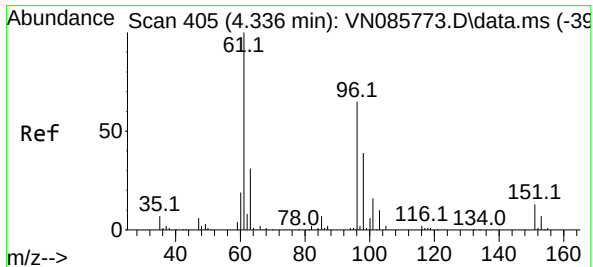
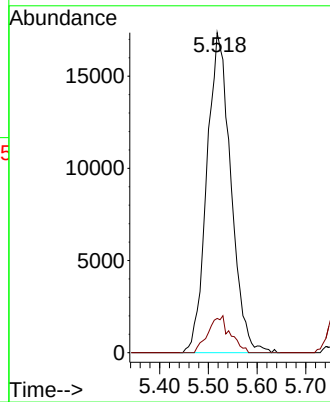
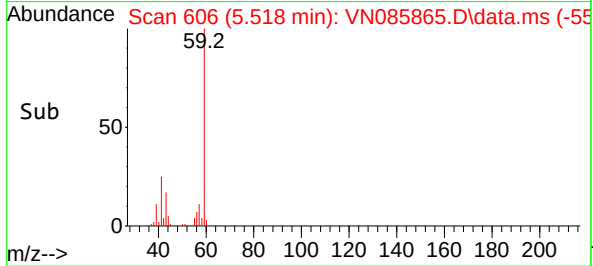
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



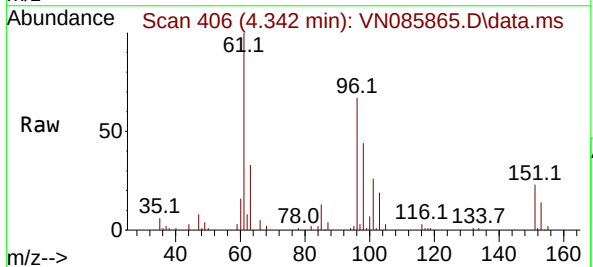
Tgt Ion: 59 Resp: 5935
Ion Ratio Lower Upper
59 100
57 10.5 8.3 12.5

Manual Integrations
APPROVED

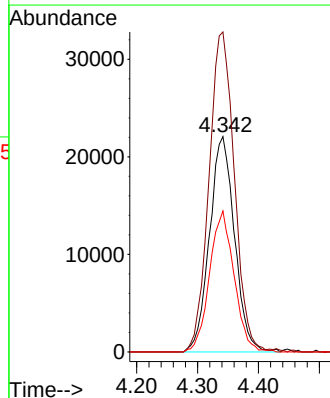
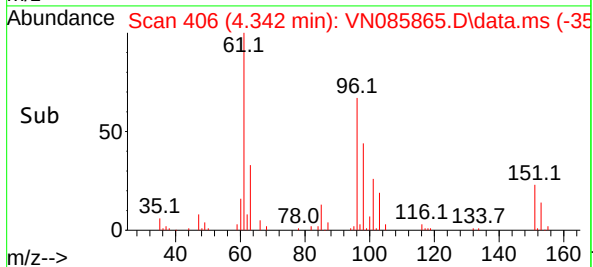
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

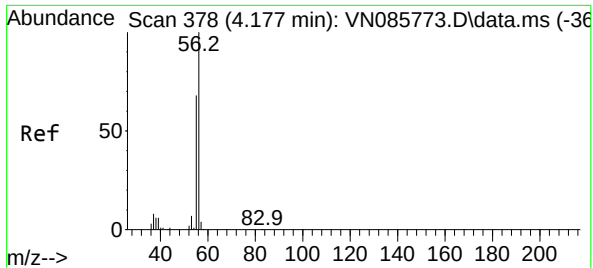


#12
1,1-Dichloroethene
Concen: 18.404 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33



Tgt Ion: 96 Resp: 63121
Ion Ratio Lower Upper
96 100
61 148.6 123.3 184.9
98 65.5 48.6 72.8





#13

Acrolein

Concen: 88.295 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 56 Resp: 65298

Ion Ratio Lower Upper

56 100

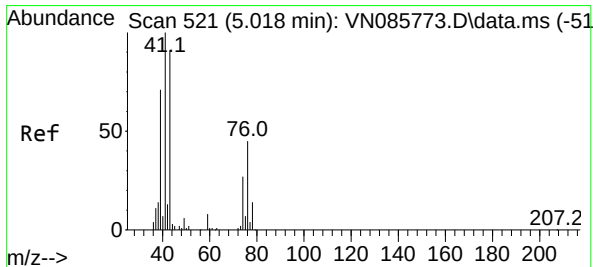
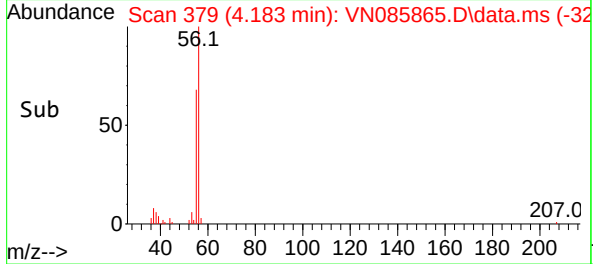
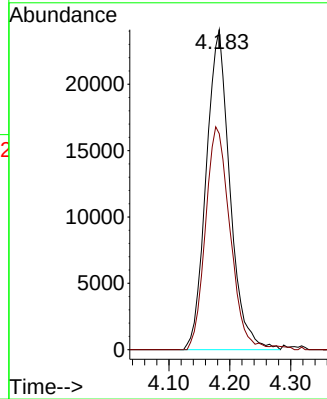
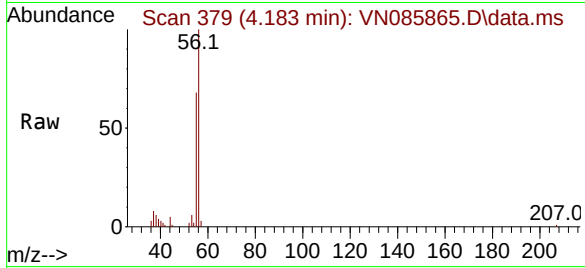
55 72.2 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#14

Allyl chloride

Concen: 17.145 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

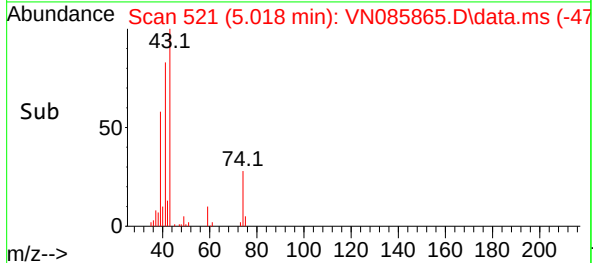
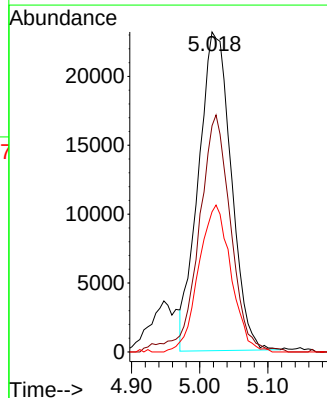
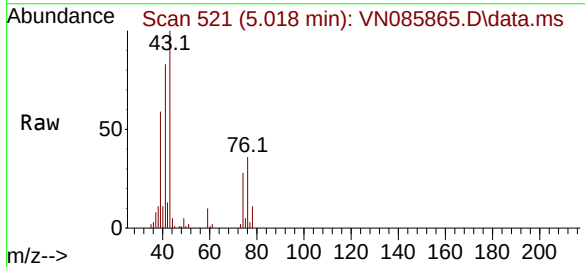
Tgt Ion: 41 Resp: 77202

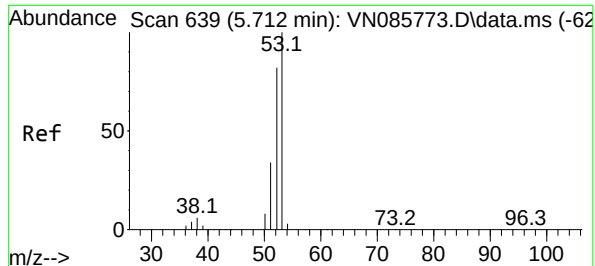
Ion Ratio Lower Upper

41 100

39 72.4 57.4 86.2

76 45.6 36.2 54.2





#15

Acrylonitrile

Concen: 106.037 ug/l

RT: 5.712 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

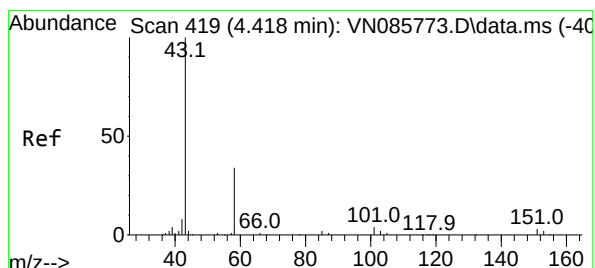
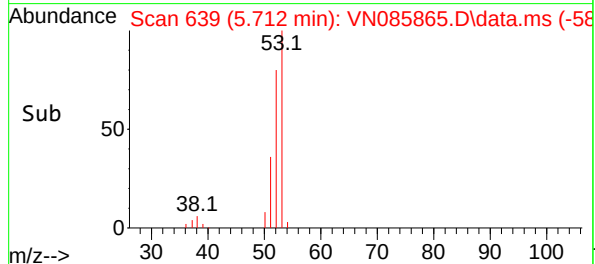
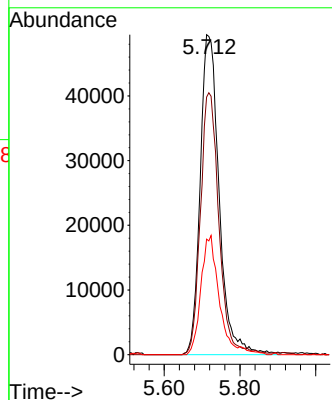
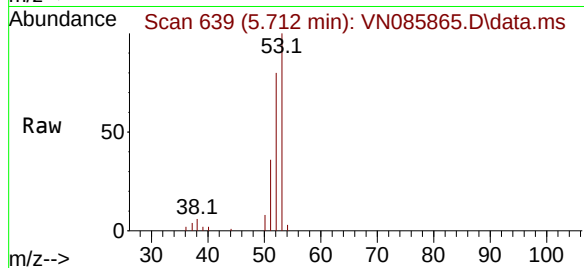
VN0226WBS01

Tgt Ion:	53	Resp:	17191
Ion	Ratio	Lower	Upper
53	100		
52	79.7	65.8	98.6
51	34.9	28.6	42.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#16

Acetone

Concen: 105.076 ug/l

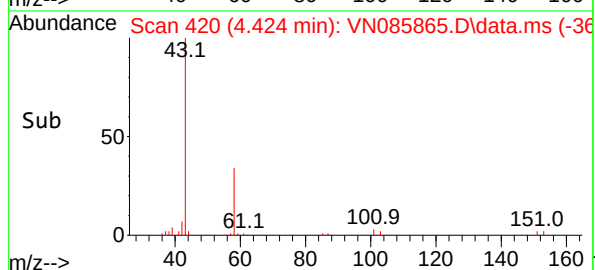
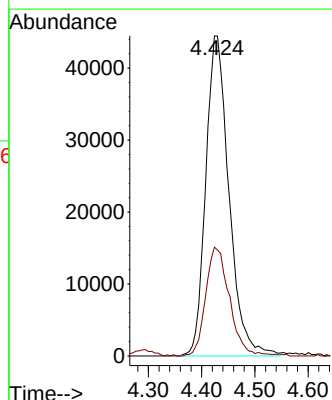
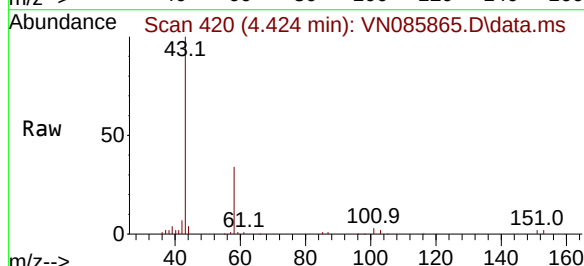
RT: 4.424 min Scan# 420

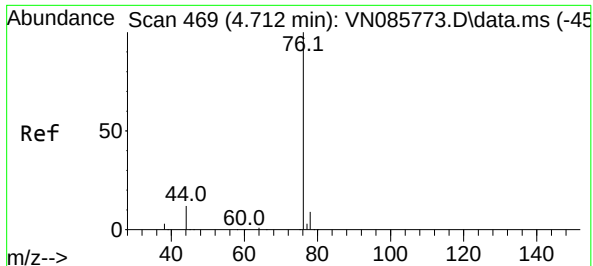
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

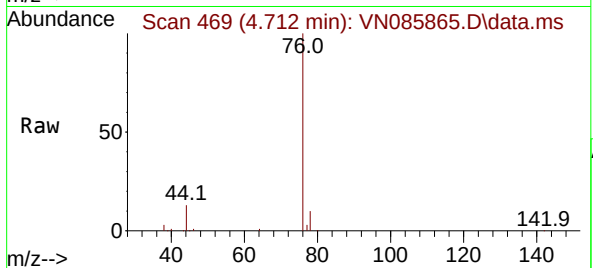
Tgt Ion:	43	Resp:	134811
Ion	Ratio	Lower	Upper
43	100		
58	34.0	27.5	41.3





#17
Carbon Disulfide
Concen: 15.541 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

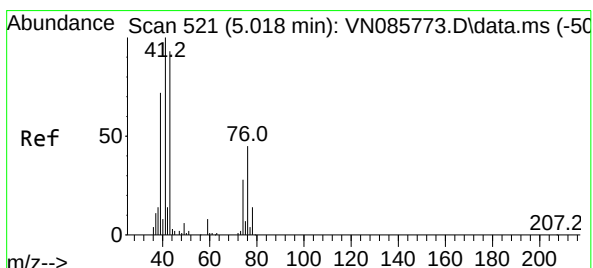
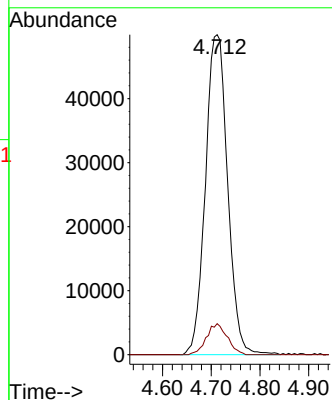
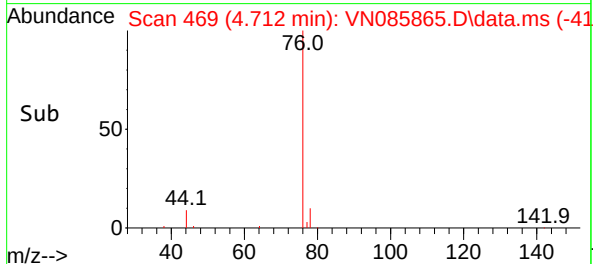
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion: 76 Resp: 15797
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0

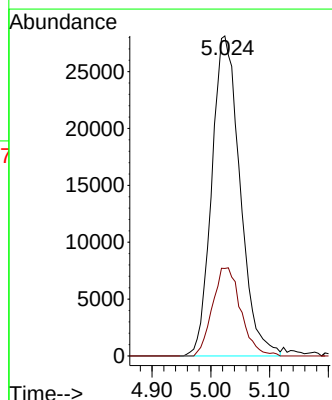
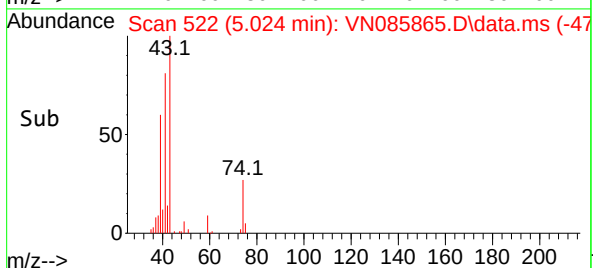
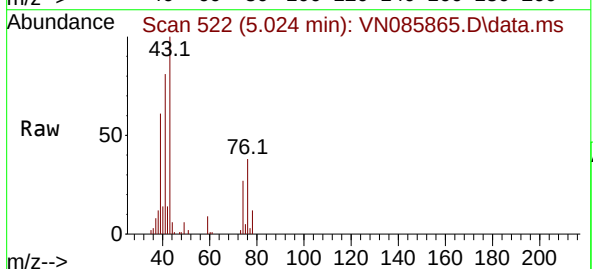
Manual Integrations
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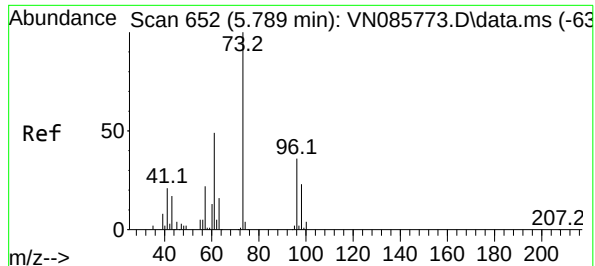
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#18
Methyl Acetate
Concen: 21.294 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 43 Resp: 93967
Ion Ratio Lower Upper
43 100
74 27.6 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 19.551 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 73 Resp: 199254

Ion Ratio Lower Upper

73 100

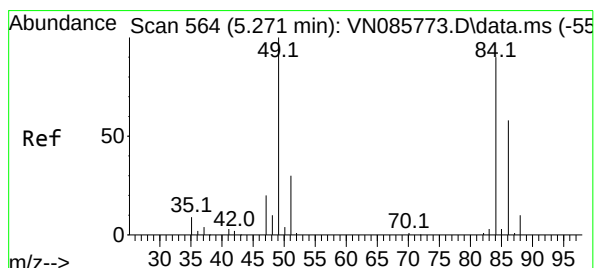
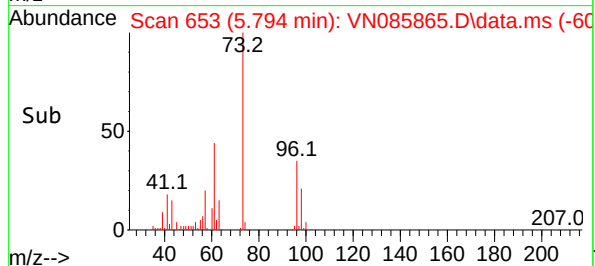
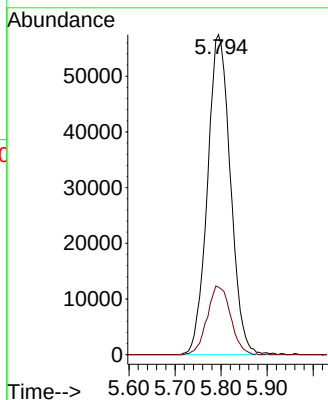
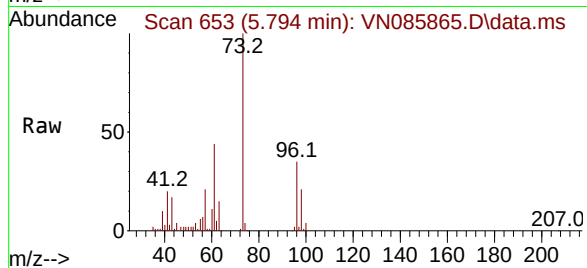
57 21.1 17.6 26.4

Manual Integrations

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Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#20

Methylene Chloride

Concen: 18.112 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion: 84 Resp: 74729

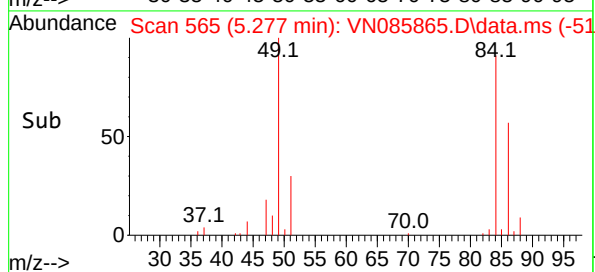
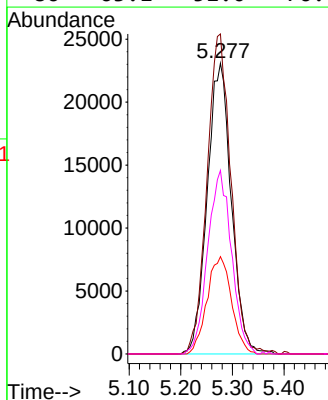
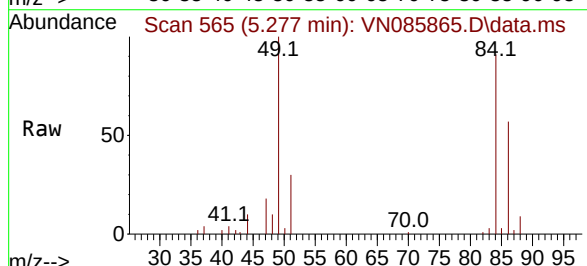
Ion Ratio Lower Upper

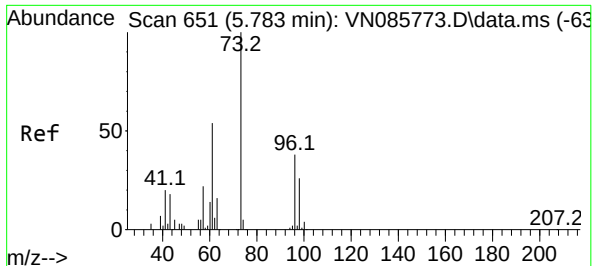
84 100

49 110.0 88.4 132.6

51 33.5 26.6 40.0

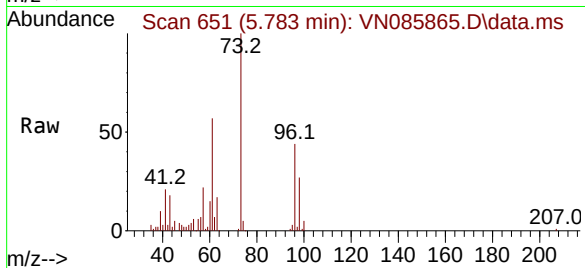
86 63.1 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 17.734 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

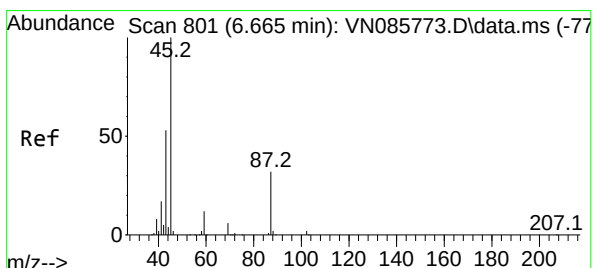
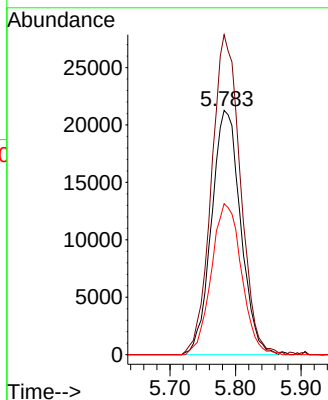
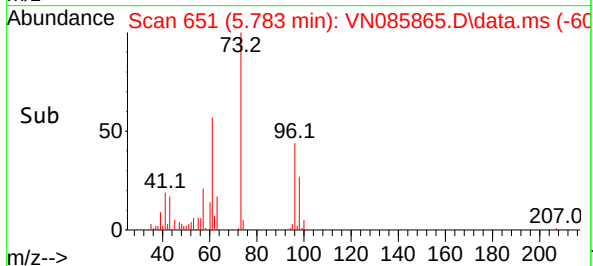
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion: 96 Resp: 6549
Ion Ratio Lower Upper
96 100
61 131.0 112.6 168.8
98 61.8 53.3 79.9

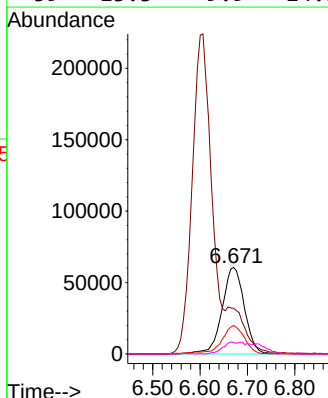
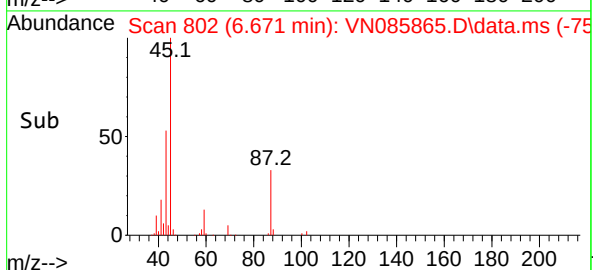
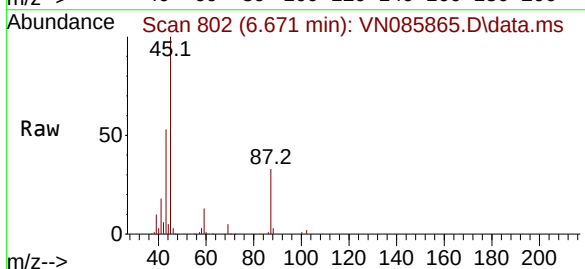
Manual Integrations
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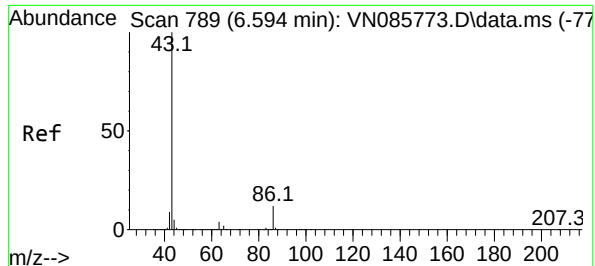
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#22
Diisopropyl ether
Concen: 19.478 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 45 Resp: 198185
Ion Ratio Lower Upper
45 100
43 51.6 42.6 64.0
87 33.0 25.8 38.8
59 13.3 9.9 14.9





#23

Vinyl Acetate

Concen: 91.613 ug/l

RT: 6.606 min Scan# 791

Delta R.T. 0.012 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 43 Resp: 63825

Ion Ratio Lower Upper

43

100

86

12.8

9.8

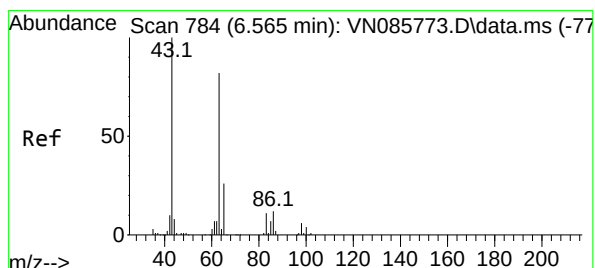
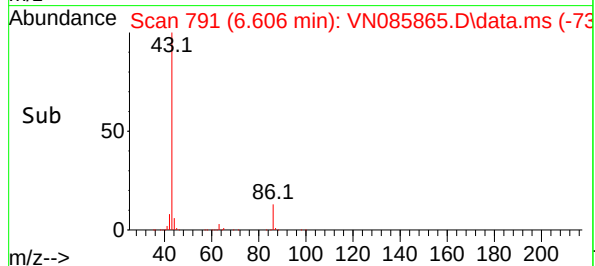
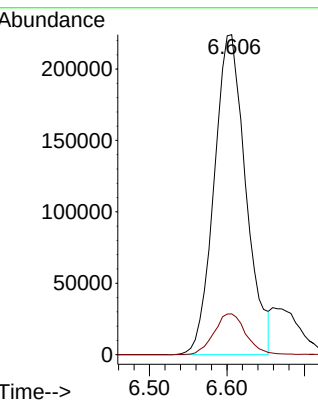
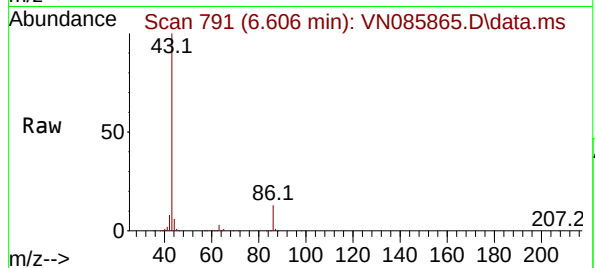
14.8

Manual Integrations

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Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#24

1,1-Dichloroethane

Concen: 18.274 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion: 63 Resp: 126402

Ion Ratio Lower Upper

63

100

98

7.9

3.5

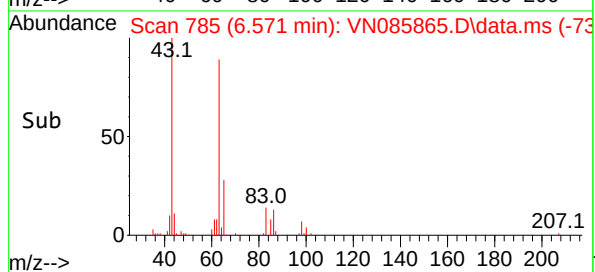
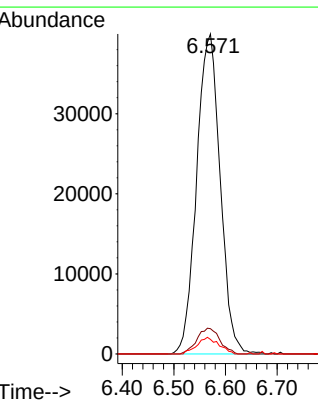
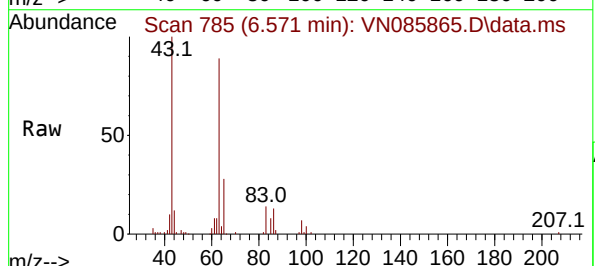
10.4

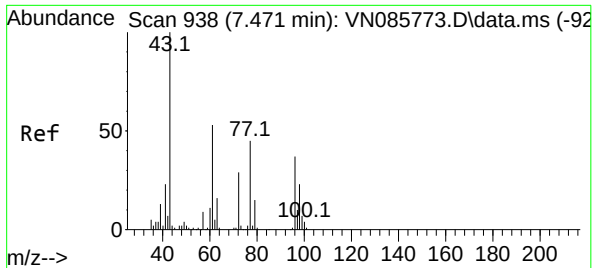
100

4.6

2.4

7.2





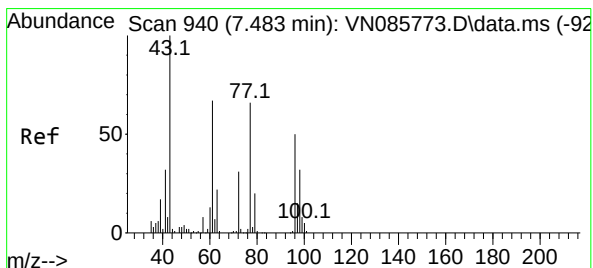
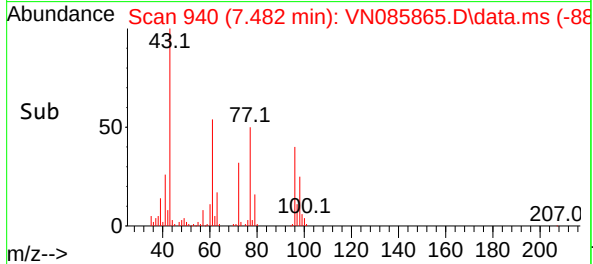
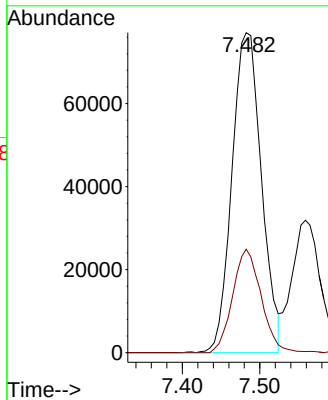
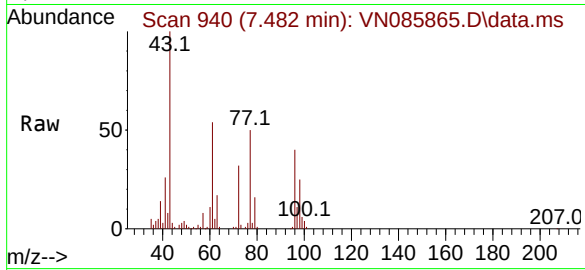
#25
2-Butanone
Concen: 108.157 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion: 43 Resp: 20414
Ion Ratio Lower Upper
43 100
72 32.3 23.6 35.4

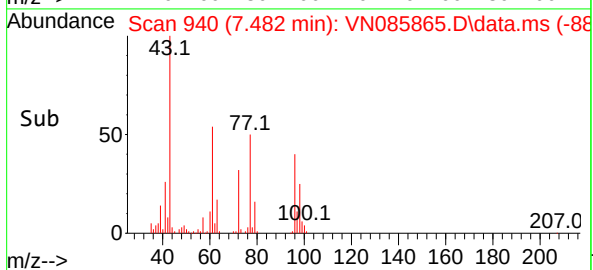
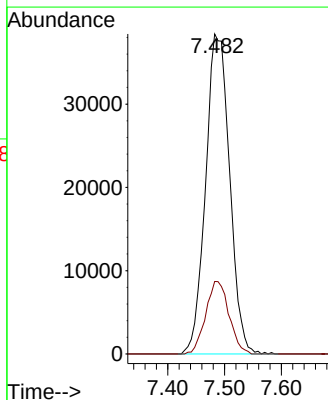
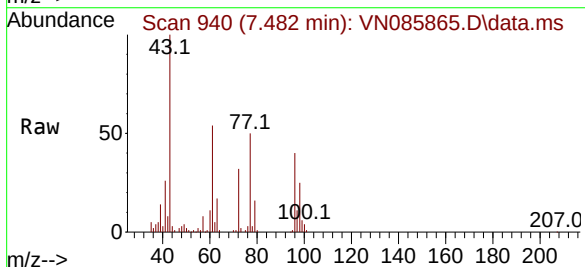
Manual Integrations
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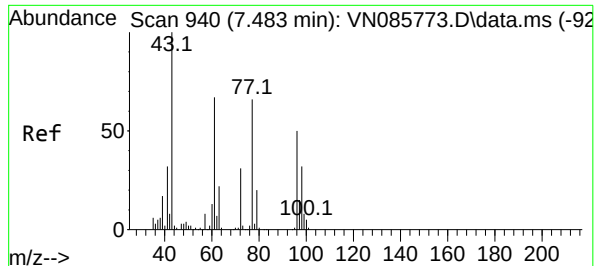
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#26
2,2-Dichloropropane
Concen: 18.351 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 77 Resp: 112867
Ion Ratio Lower Upper
77 100
97 21.9 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 18.700 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion:	96	Resp:	8007
Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	280.6
98	63.7	0.0	128.6

Instrument :

MSVOA_N

ClientSampleId :

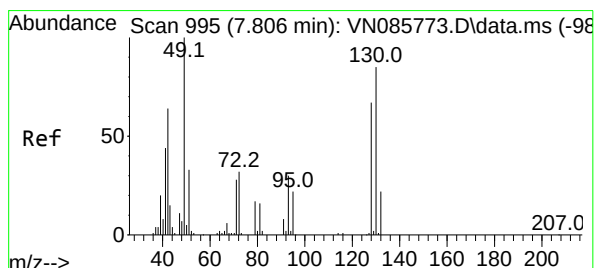
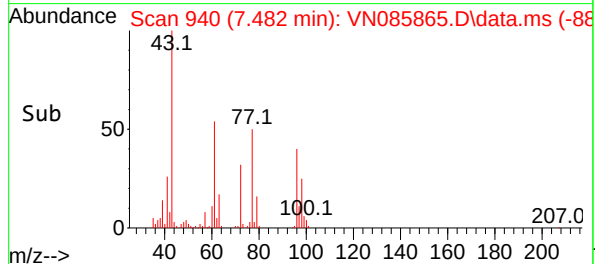
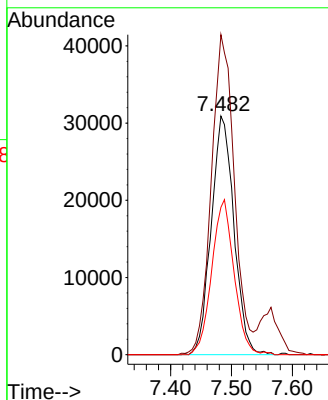
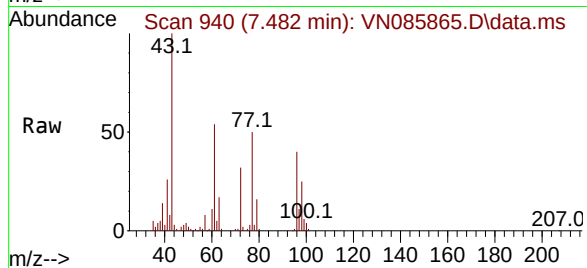
VN0226WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#28

Bromochloromethane

Concen: 21.716 ug/l

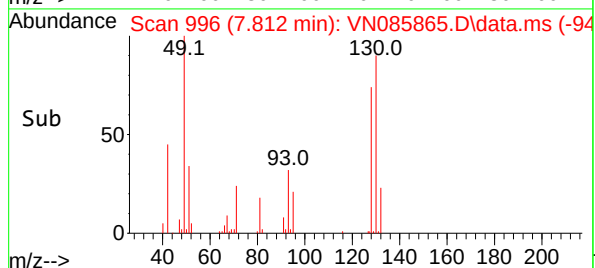
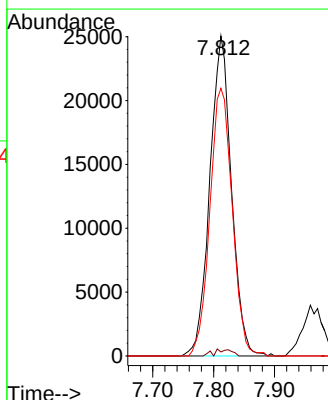
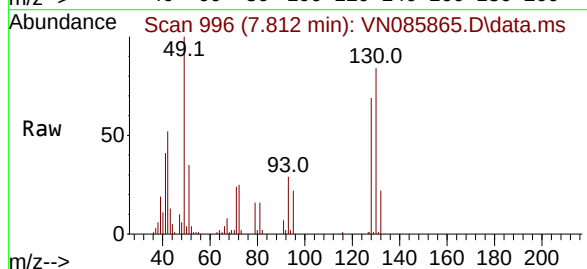
RT: 7.812 min Scan# 996

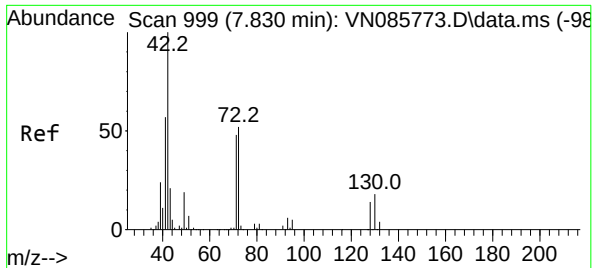
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion:	49	Resp:	61736
Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.8
130	86.6	68.0	102.0





#29

Tetrahydrofuran

Concen: 113.252 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 42 Resp: 13803

Ion Ratio Lower Upper

42 100

72 50.0 40.0 60.0

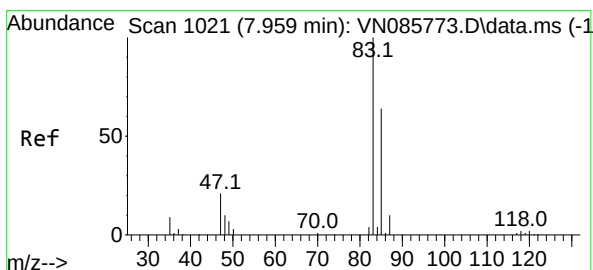
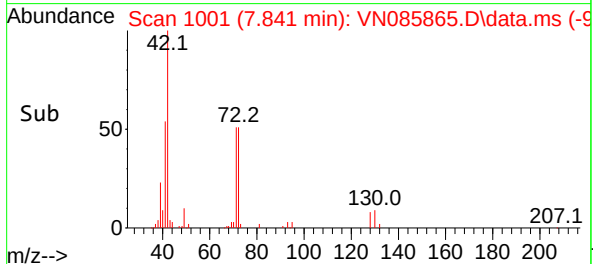
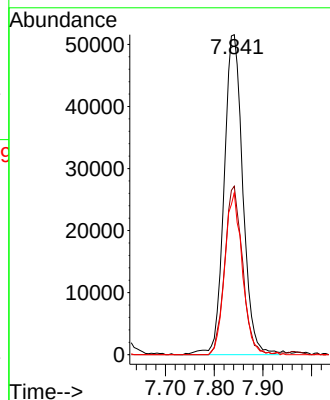
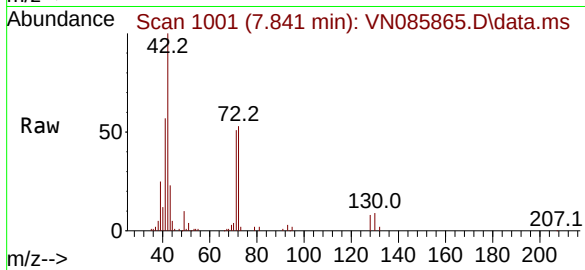
71 47.7 37.0 55.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#30

Chloroform

Concen: 18.659 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085865.D

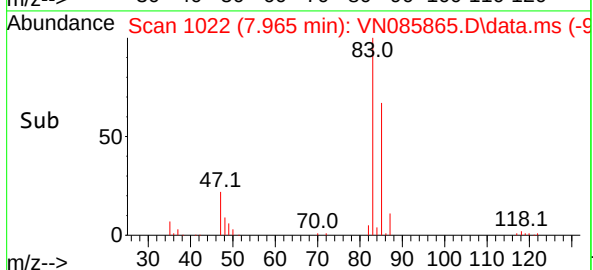
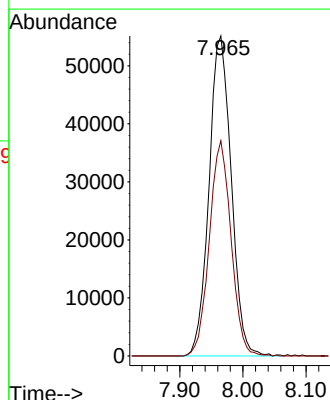
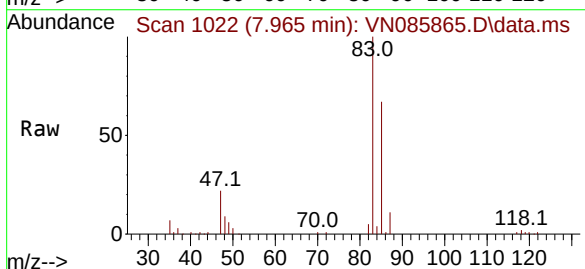
Acq: 26 Feb 2025 12:33

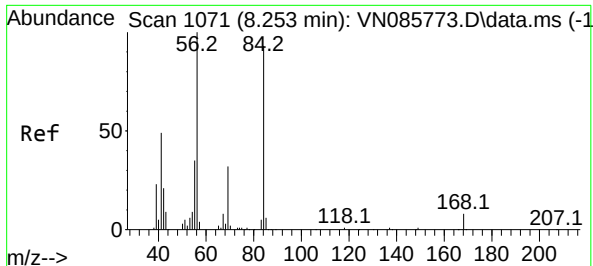
Tgt Ion: 83 Resp: 134873

Ion Ratio Lower Upper

83 100

85 67.3 50.9 76.3





#31

Cyclohexane

Concen: 16.370 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

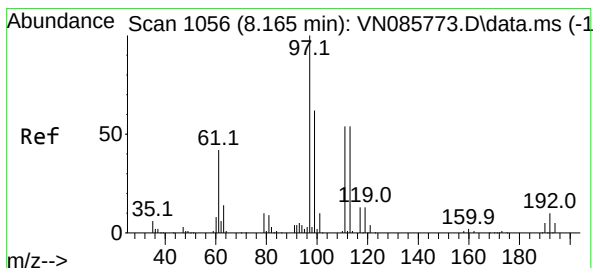
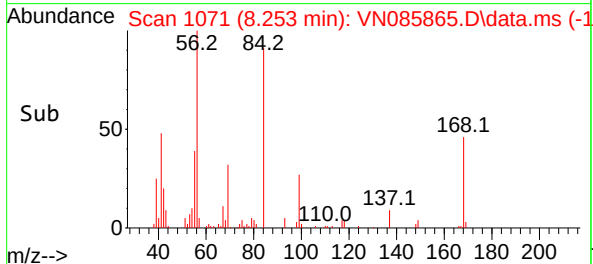
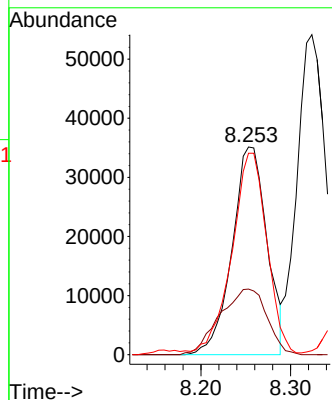
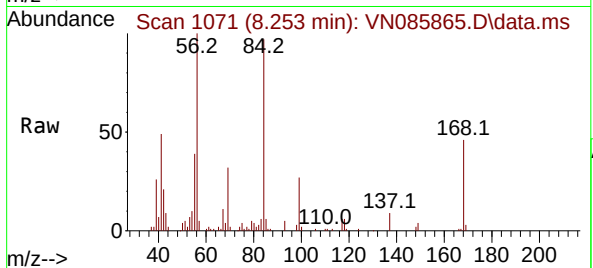
VN0226WBS01

Tgt Ion:	56	Resp:	9480
Ion	Ratio	Lower	Upper
56	100		
69	31.6	25.8	38.6
84	95.4	74.5	111.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#32

1,1,1-Trichloroethane

Concen: 18.432 ug/l

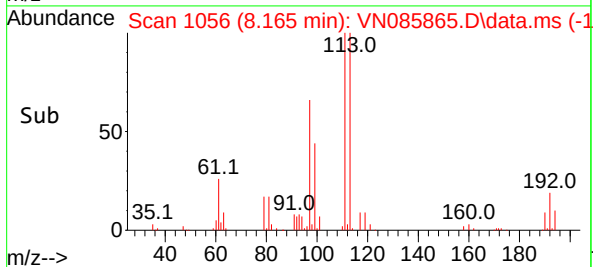
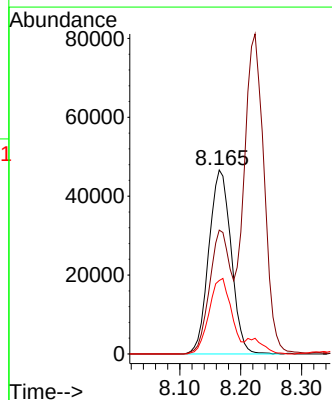
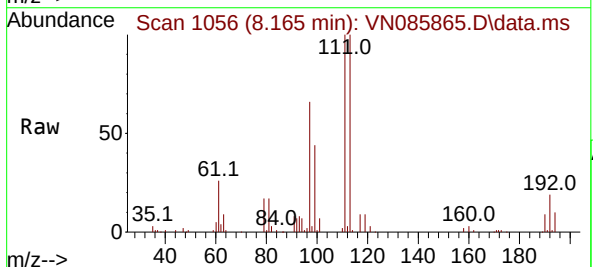
RT: 8.165 min Scan# 1056

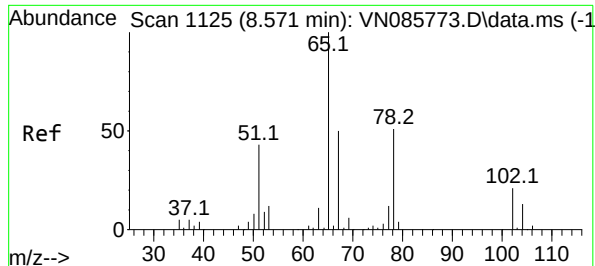
Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion:	97	Resp:	118506
Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.4	75.6
61	41.7	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 47.766 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 65 Resp: 193678

Ion Ratio Lower Upper

65 100

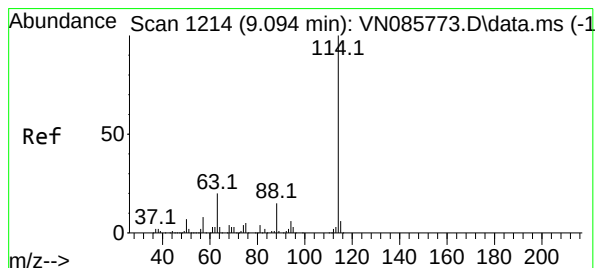
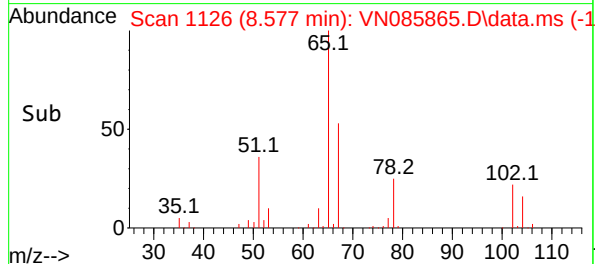
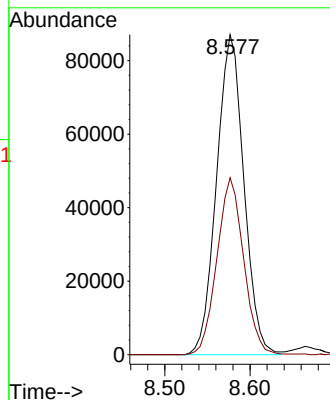
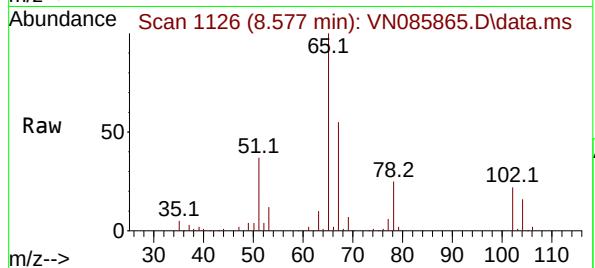
67 54.1 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

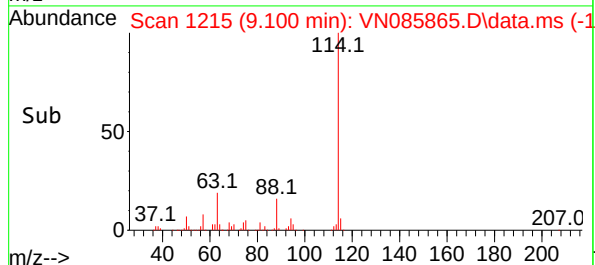
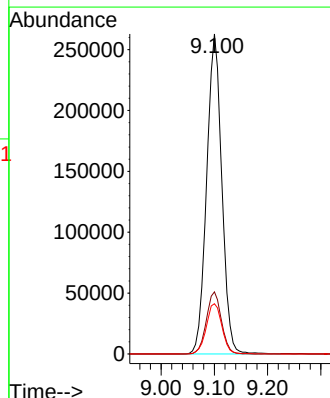
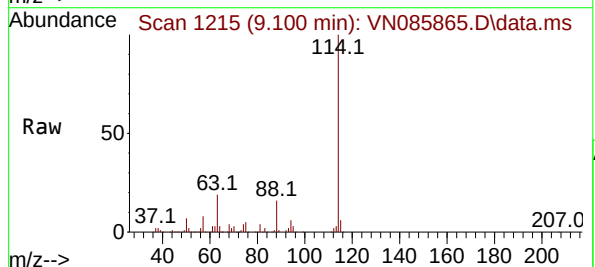
Tgt Ion:114 Resp: 518107

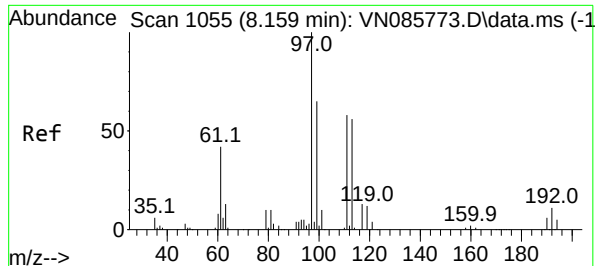
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.2

88 15.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.946 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion:113 Resp: 169328

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

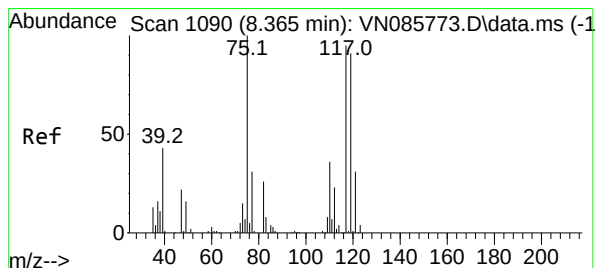
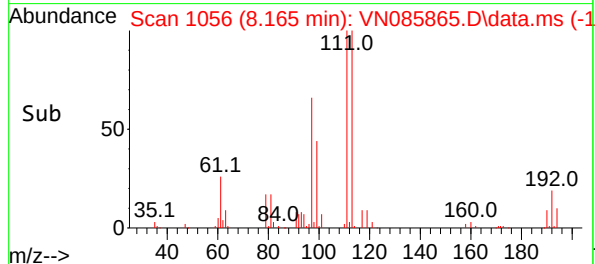
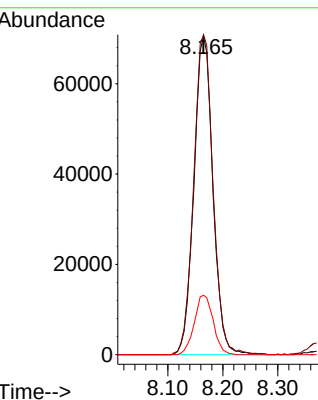
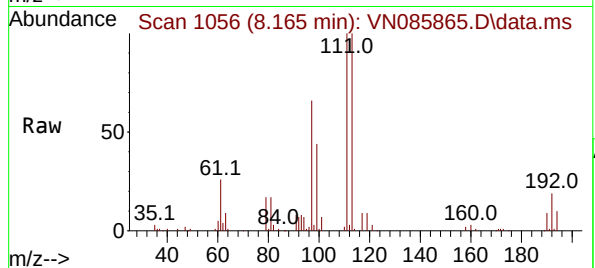
192 18.5 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#36

1,1-Dichloropropene

Concen: 17.944 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

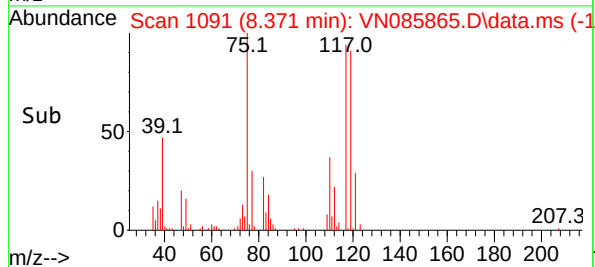
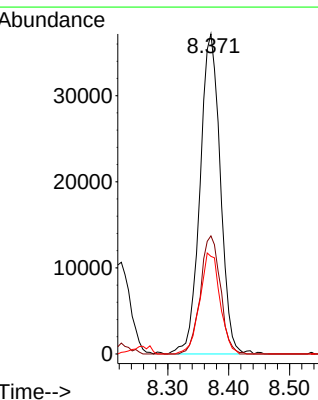
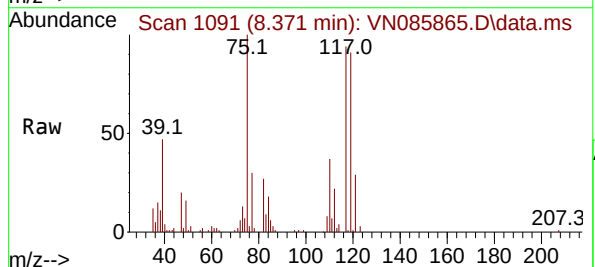
Tgt Ion: 75 Resp: 86096

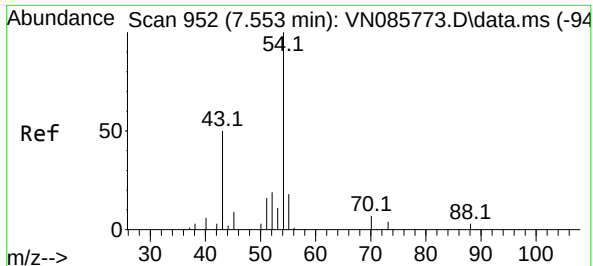
Ion Ratio Lower Upper

75 100

110 36.4 17.3 52.0

77 31.4 24.6 37.0





#37

Ethyl Acetate

Concen: 21.145 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

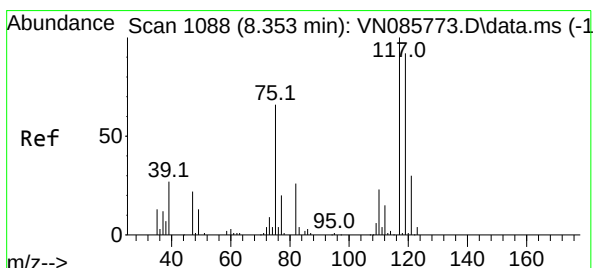
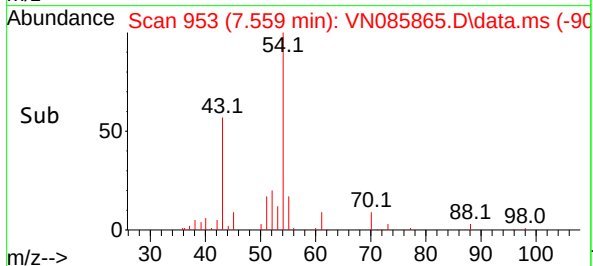
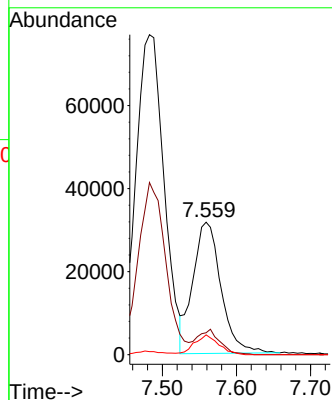
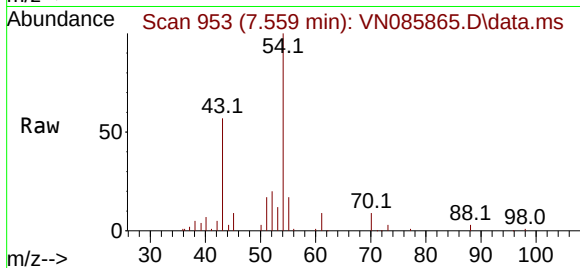
VN0226WBS01

Tgt Ion:	43	Resp:	83494
Ion	Ratio	Lower	Upper
43	100		
61	15.8	12.2	18.2
70	12.9	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#38

Carbon Tetrachloride

Concen: 18.631 ug/l

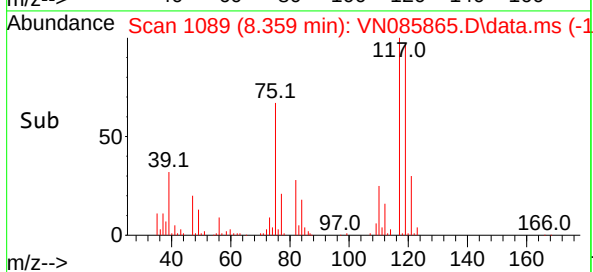
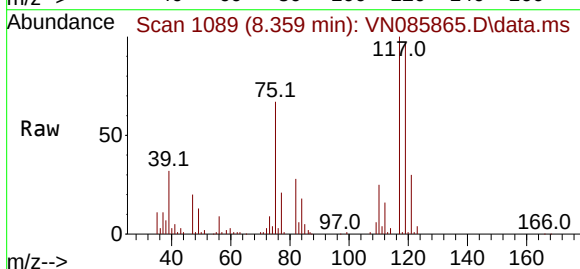
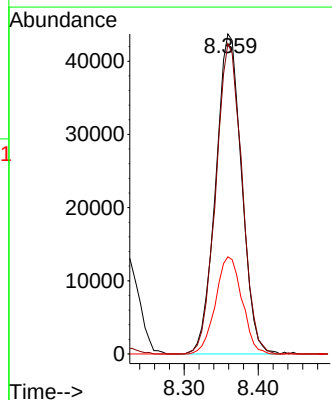
RT: 8.359 min Scan# 1089

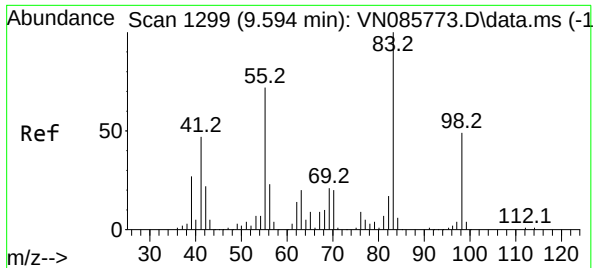
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion:	117	Resp:	106216
Ion	Ratio	Lower	Upper
117	100		
119	97.0	73.8	110.6
121	30.3	24.3	36.5





#39

Methylcyclohexane

Concen: 16.616 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

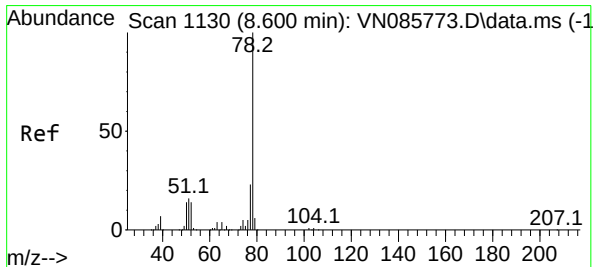
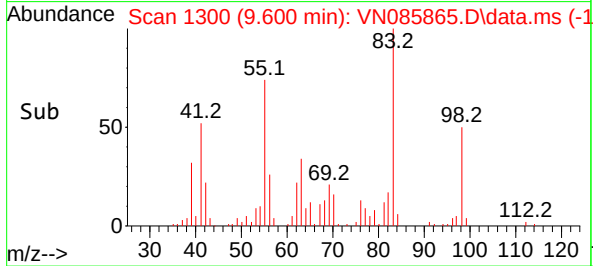
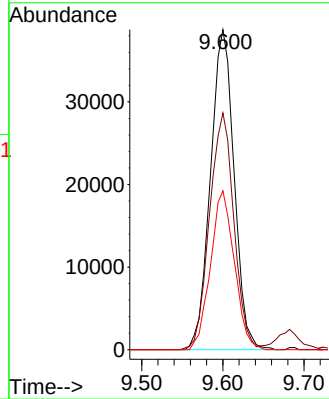
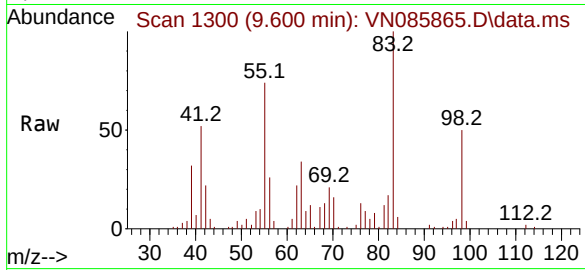
VN0226WBS01

Tgt Ion:	83	Resp:	7832
Ion Ratio	Lower	Upper	
83	100		
55	74.0	57.5	86.3
98	49.7	39.2	58.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#40

Benzene

Concen: 18.436 ug/l

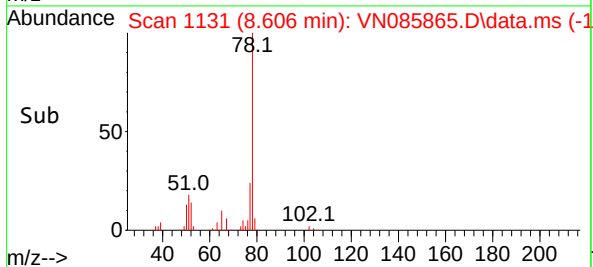
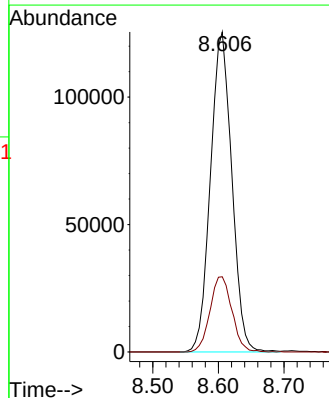
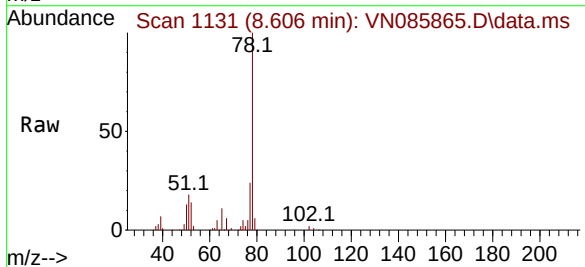
RT: 8.606 min Scan# 1131

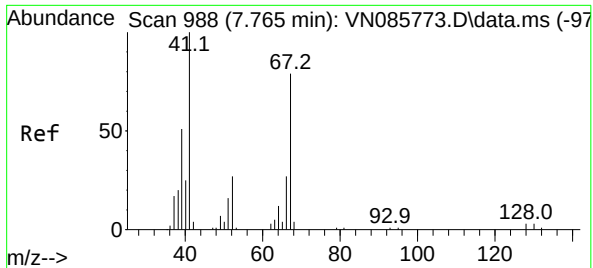
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

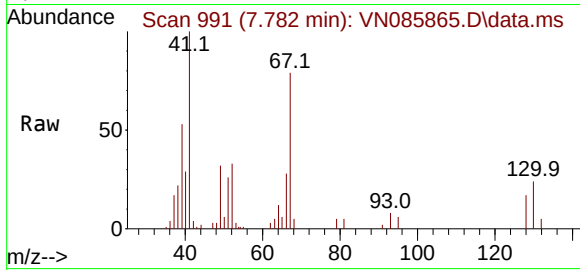
Tgt Ion:	78	Resp:	283517
Ion Ratio	Lower	Upper	
78	100		
77	23.5	18.3	27.5





#41
Methacrylonitrile
Concen: 21.278 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.018 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

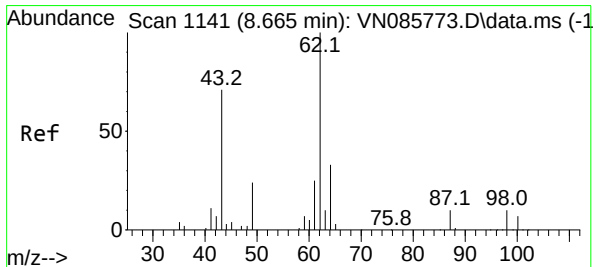
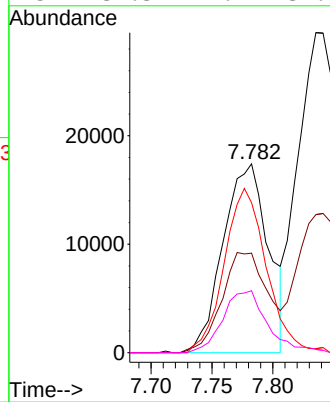
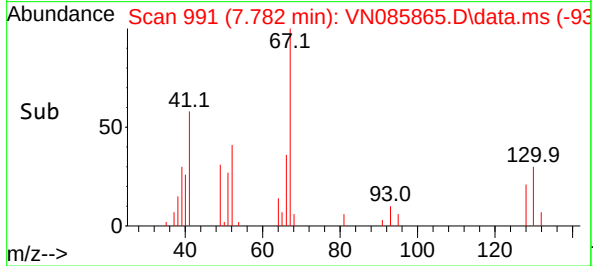
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



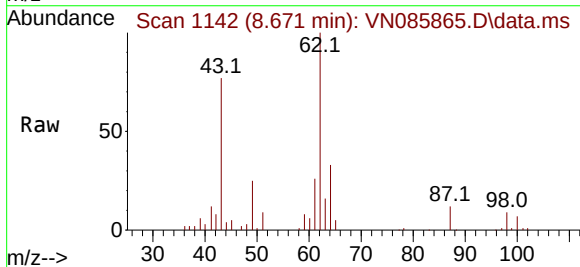
Tgt Ion: 41 Resp: 44914
Ion Ratio Lower Upper
41 100
39 54.0 42.0 63.0
67 81.4 64.2 96.4
52 32.3 24.7 37.1

Manual Integrations
APPROVED

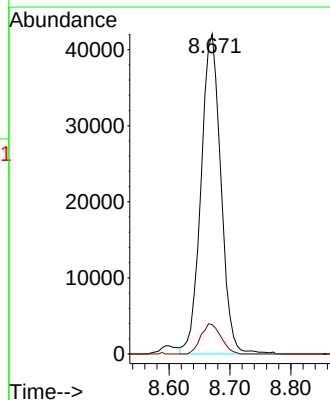
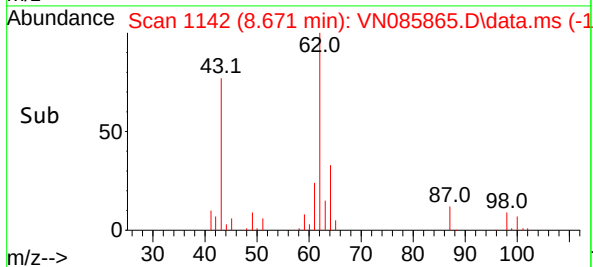
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

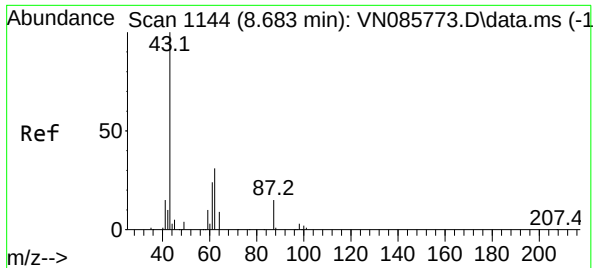


#42
1,2-Dichloroethane
Concen: 19.027 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33



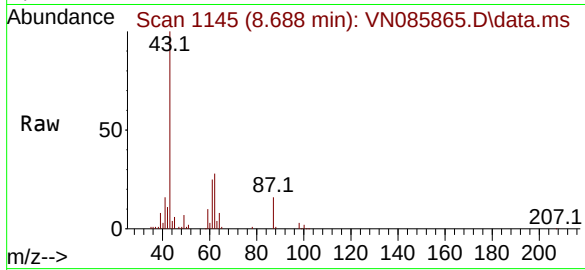
Tgt Ion: 62 Resp: 95308
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.6





#43
Isopropyl Acetate
Concen: 19.632 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

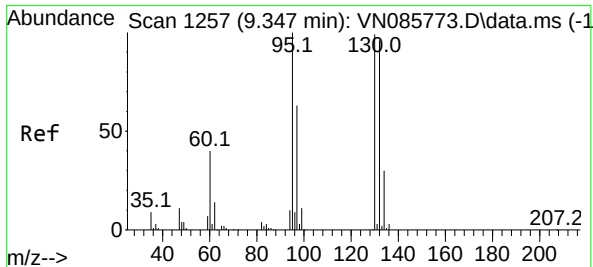
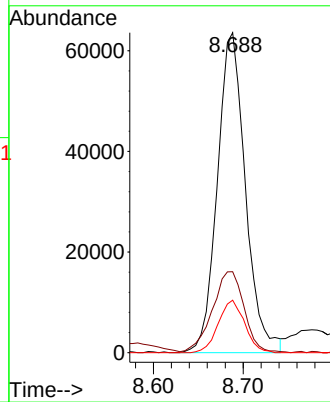
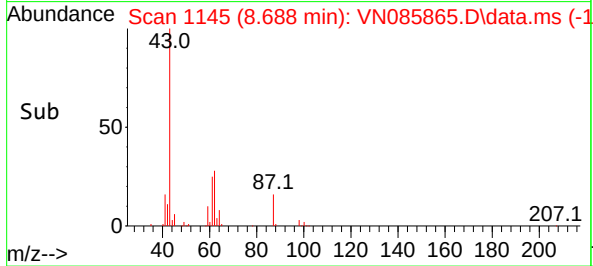
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion: 43 Resp: 138339
Ion Ratio Lower Upper
43 100
61 28.7 22.6 34.0
87 15.3 11.8 17.8

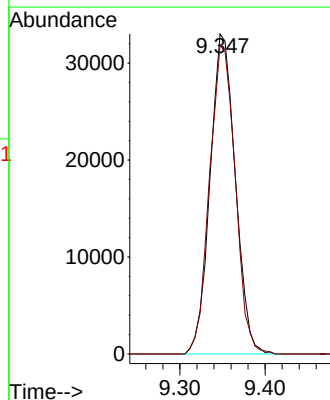
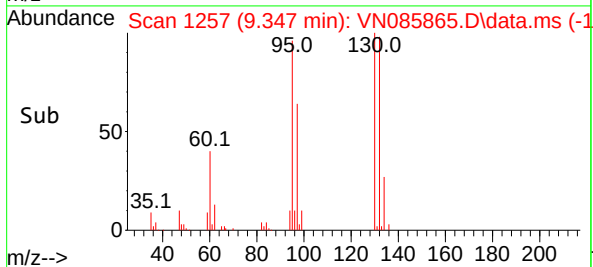
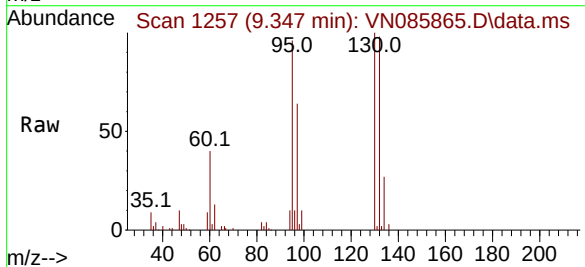
Manual Integrations
APPROVED

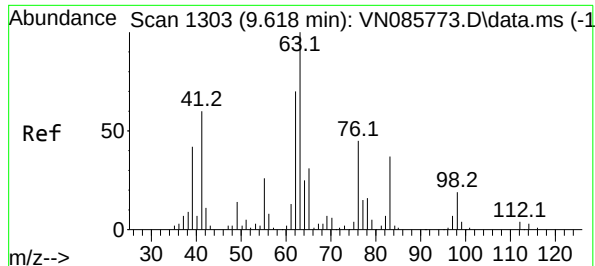
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#44
Trichloroethene
Concen: 17.985 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:130 Resp: 67909
Ion Ratio Lower Upper
130 100
95 96.5 0.0 202.6





#45

1,2-Dichloropropane

Concen: 18.798 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 63 Resp: 69780

Ion Ratio Lower Upper

63 100

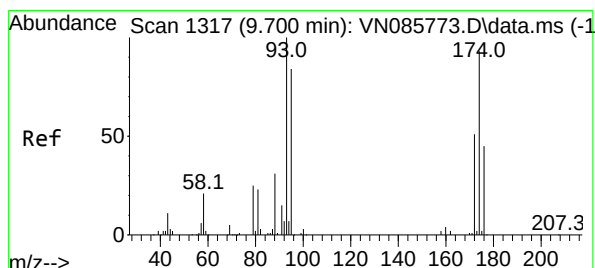
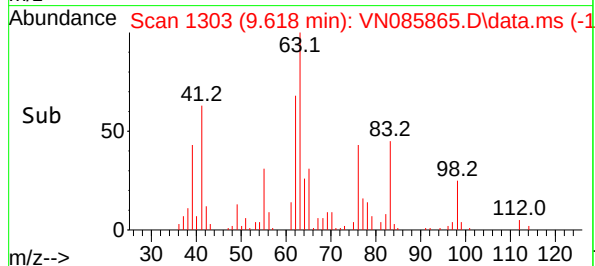
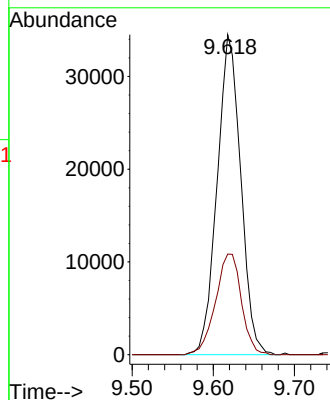
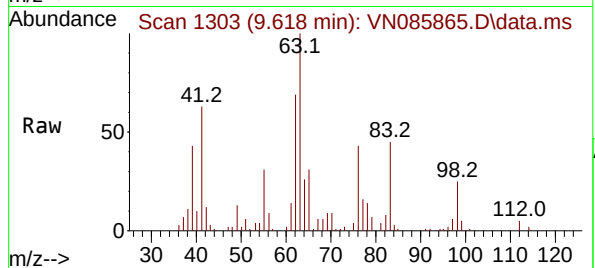
65 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#46

Dibromomethane

Concen: 19.405 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

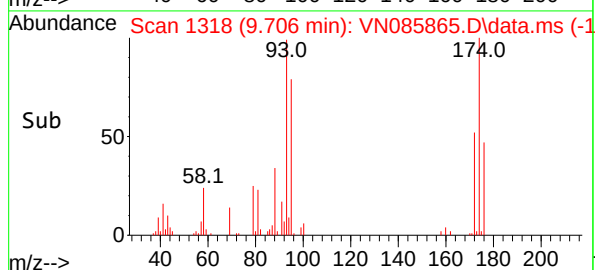
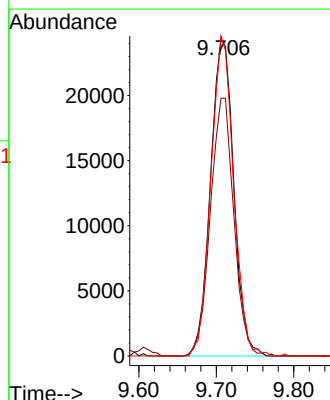
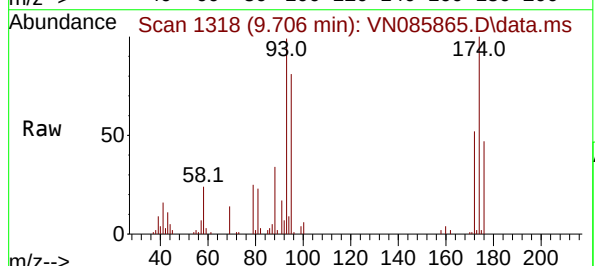
Tgt Ion: 93 Resp: 50809

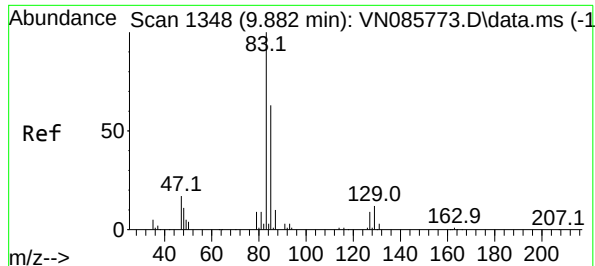
Ion Ratio Lower Upper

93 100

95 81.9 66.7 100.1

174 98.4 77.2 115.8





#47

Bromodichloromethane

Concen: 18.936 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

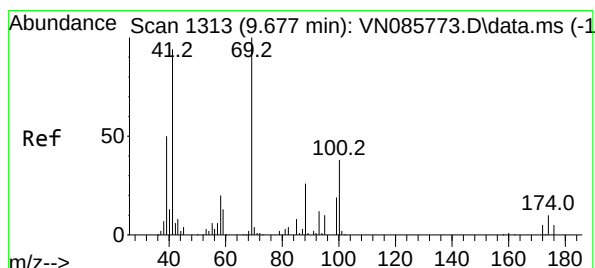
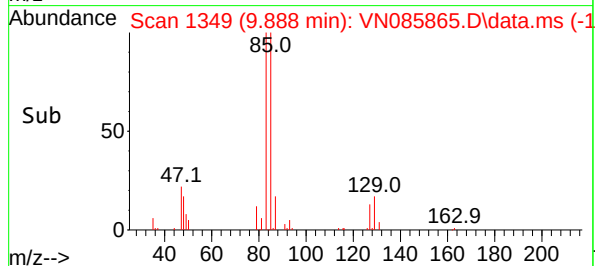
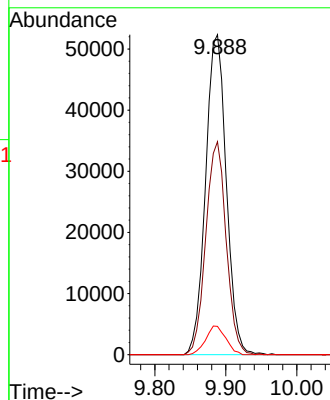
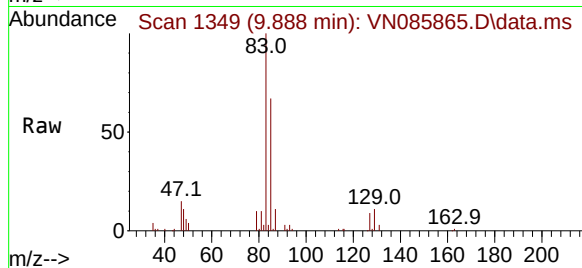
VN0226WBS01

Tgt Ion:	83	Resp:	10607
Ion Ratio	Lower	Upper	
83	100		
85	66.6	50.5	75.7
127	8.8	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#48

Methyl methacrylate

Concen: 20.418 ug/l

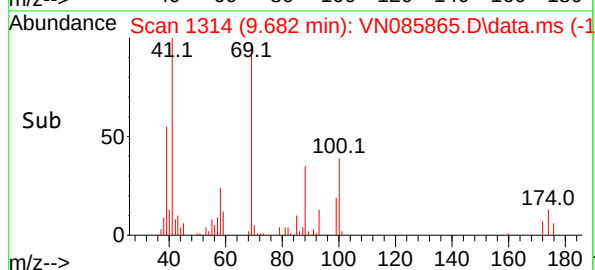
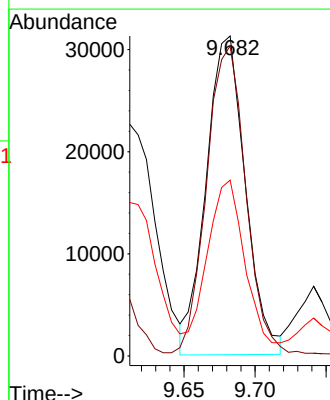
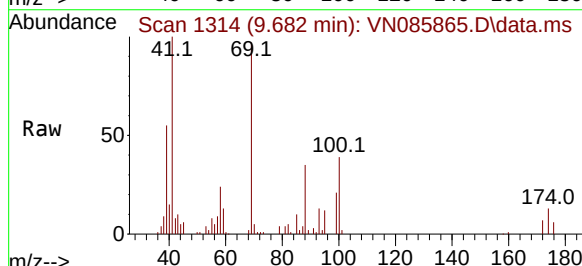
RT: 9.682 min Scan# 1314

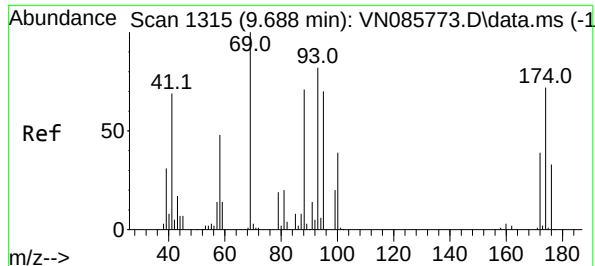
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion:	41	Resp:	59874
Ion Ratio	Lower	Upper	
41	100		
69	98.9	76.0	114.0
39	55.2	42.3	63.5





#49

1,4-Dioxane

Concen: 547.469 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 88 Resp: 30529

Ion Ratio Lower Upper

88 100

43 26.3 18.6 27.8

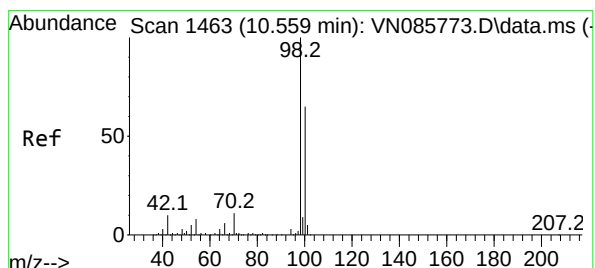
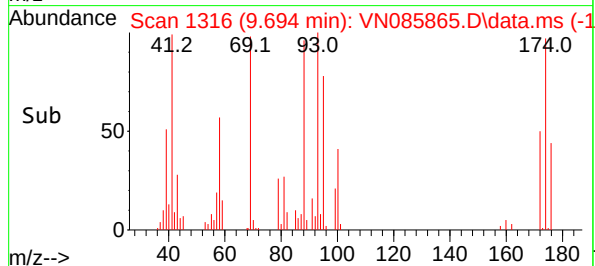
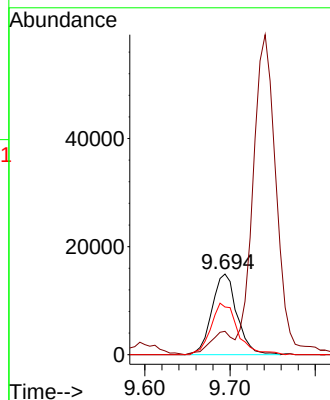
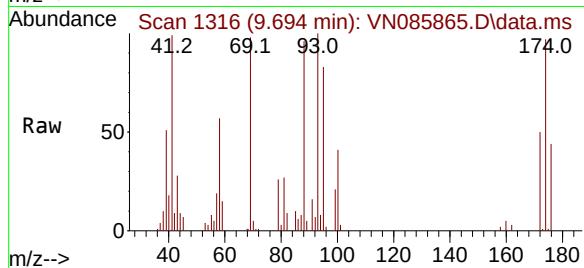
58 68.0 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#50

Toluene-d8

Concen: 50.500 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085865.D

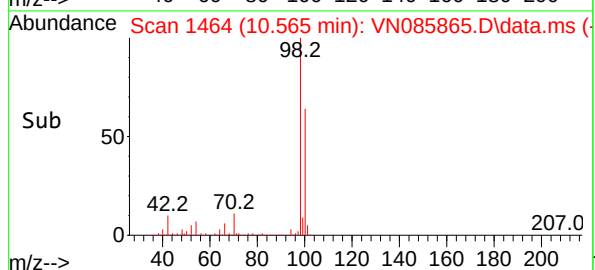
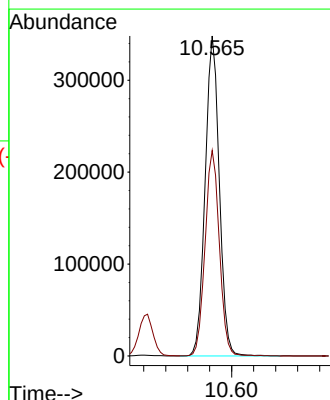
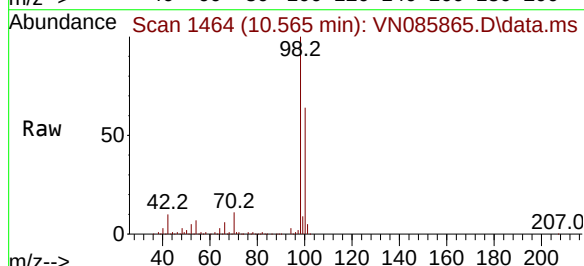
Acq: 26 Feb 2025 12:33

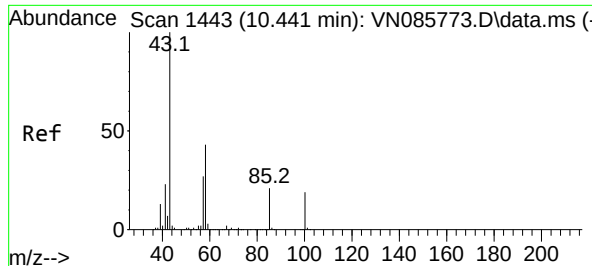
Tgt Ion: 98 Resp: 622907

Ion Ratio Lower Upper

98 100

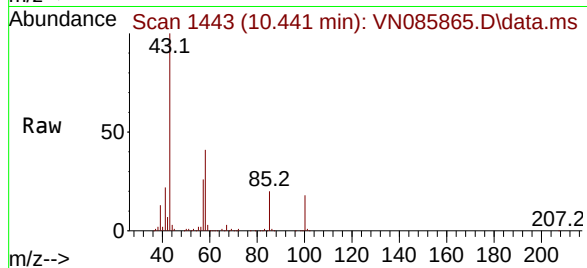
100 64.8 52.1 78.1





#51
4-Methyl-2-Pentanone
Concen: 114.812 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

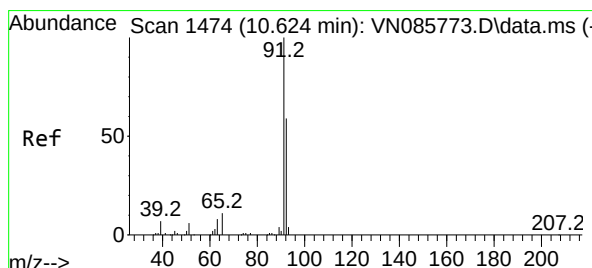
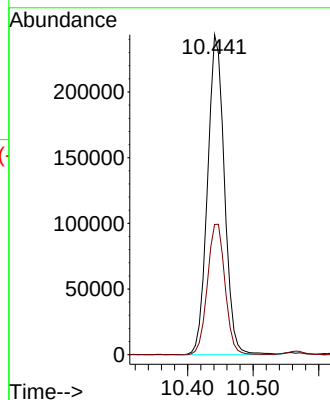
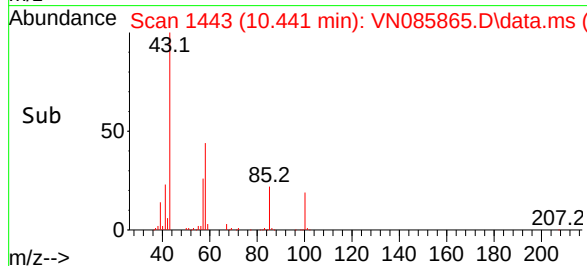
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion: 43 Resp: 437085
Ion Ratio Lower Upper
43 100
58 42.5 34.6 52.0

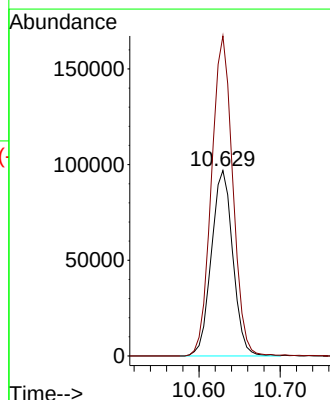
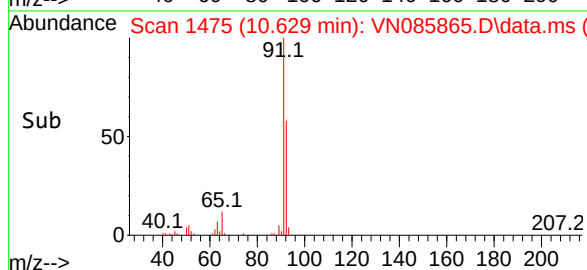
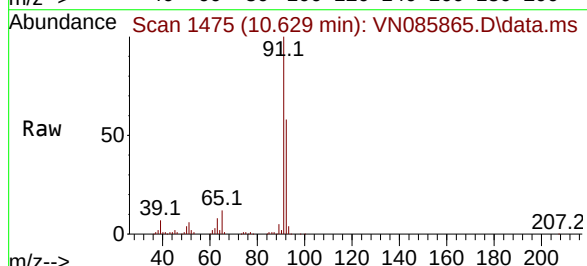
Manual Integrations
APPROVED

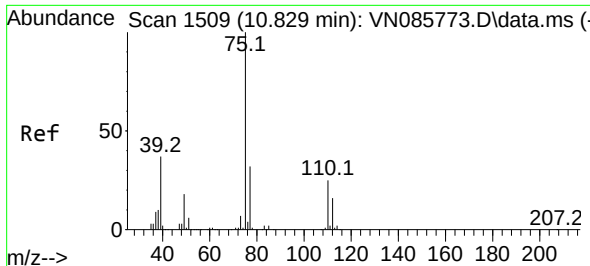
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#52
Toluene
Concen: 19.724 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

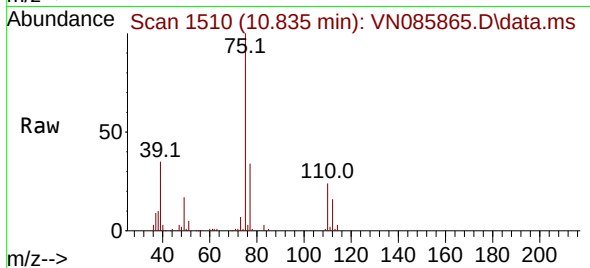
Tgt Ion: 92 Resp: 177804
Ion Ratio Lower Upper
92 100
91 171.7 136.9 205.3





#53
t-1,3-Dichloropropene
Concen: 19.398 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

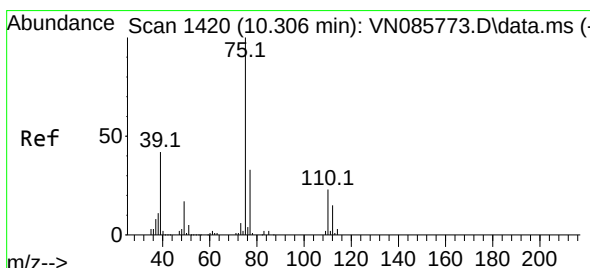
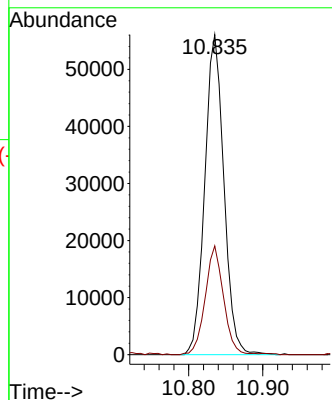
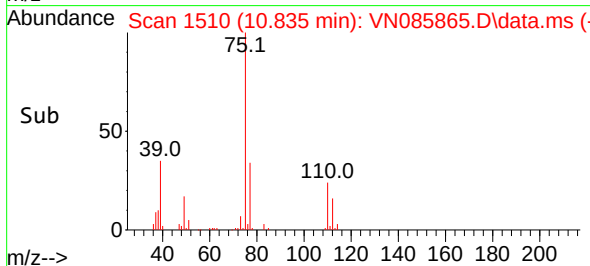
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



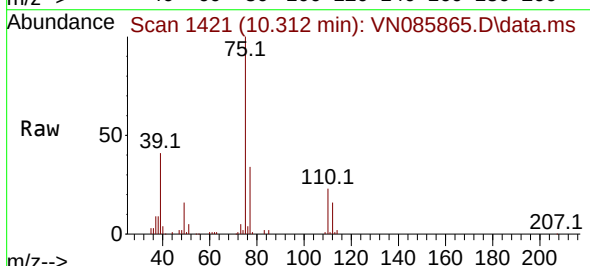
Tgt Ion: 75 Resp: 100480
Ion Ratio Lower Upper
75 100
77 34.0 25.4 38.0

Manual Integrations
APPROVED

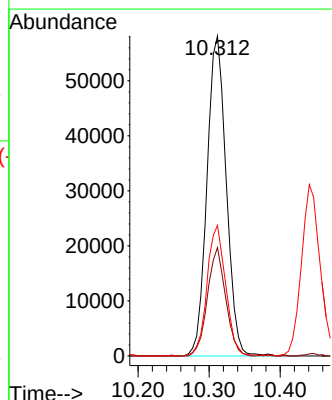
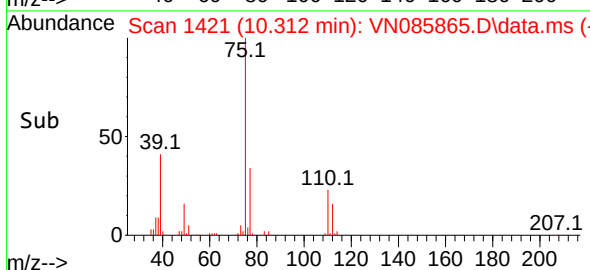
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

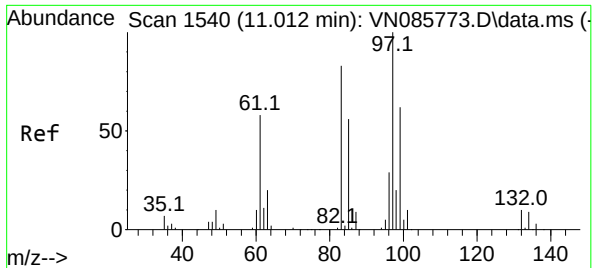


#54
cis-1,3-Dichloropropene
Concen: 19.307 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33



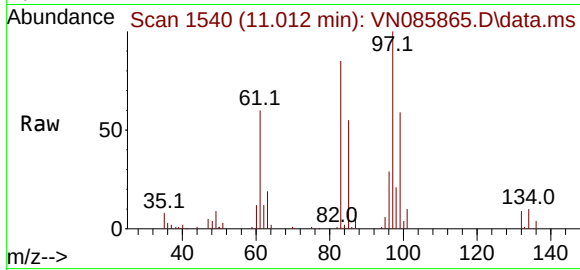
Tgt Ion: 75 Resp: 109665
Ion Ratio Lower Upper
75 100
77 33.9 26.1 39.1
39 40.9 33.4 50.0





#55
1,1,2-Trichloroethane
Concen: 19.583 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

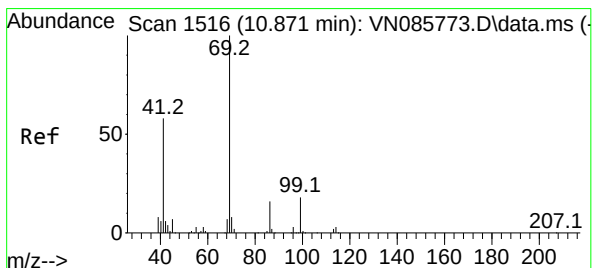
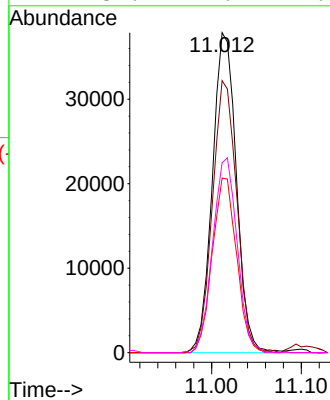
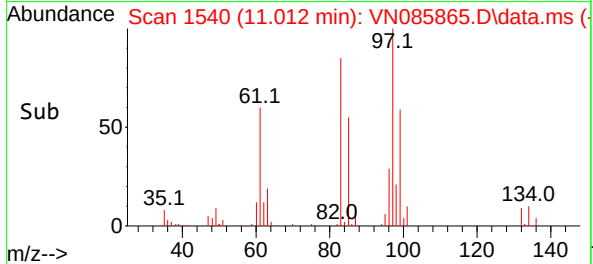
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



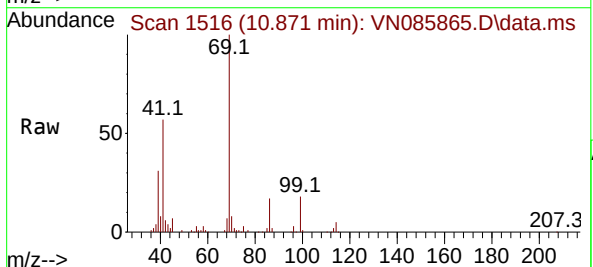
Tgt Ion: 97 Resp: 70189
Ion Ratio Lower Upper
97 100
83 85.0 66.1 99.1
85 54.5 44.7 67.1
99 59.4 49.7 74.5

Manual Integrations
APPROVED

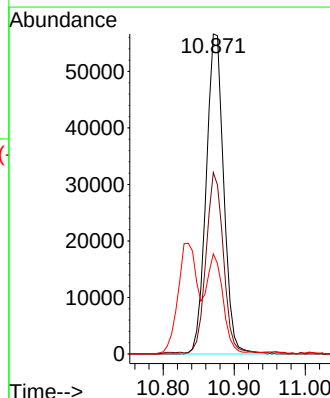
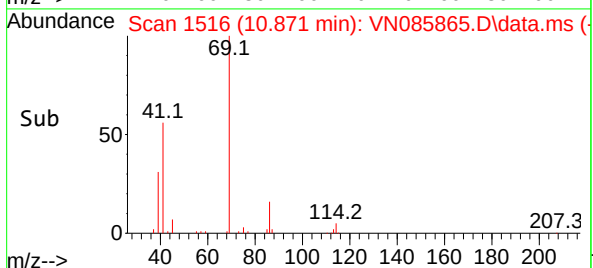
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

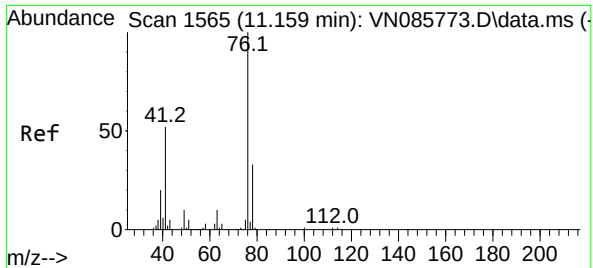


#56
Ethyl methacrylate
Concen: 20.511 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.001 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33



Tgt Ion: 69 Resp: 97284
Ion Ratio Lower Upper
69 100
41 55.2 46.0 69.0
39 28.8 22.0 33.0





#57

1,3-Dichloropropane

Concen: 19.449 ug/l

RT: 11.159 min Scan# 116364

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 76 Resp: 116364

Ion Ratio Lower Upper

76 100

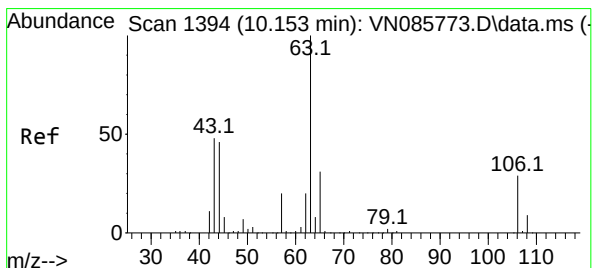
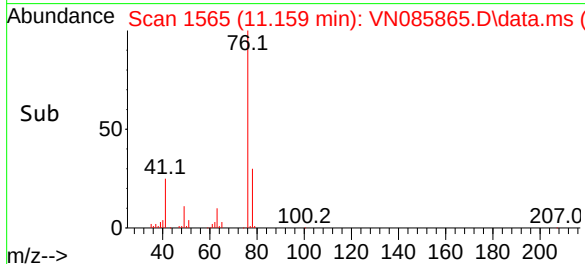
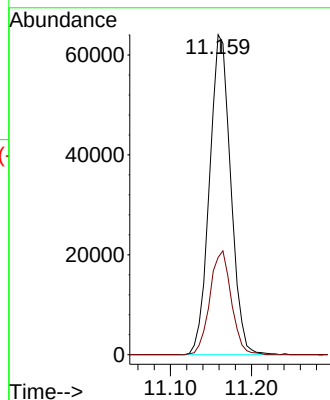
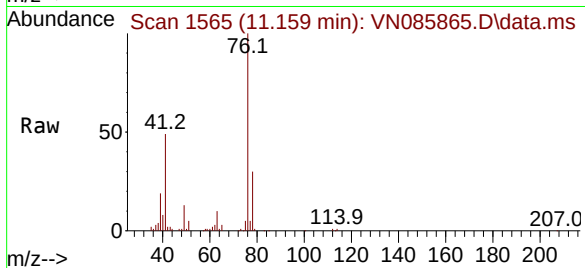
78 32.7 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#58

2-Chloroethyl Vinyl ether

Concen: 107.576 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085865.D

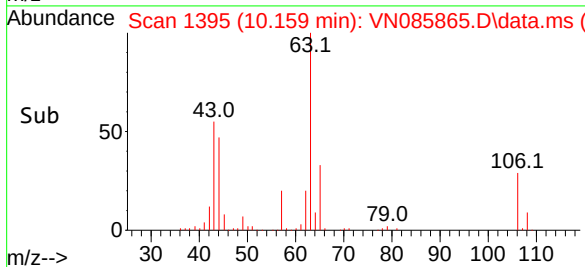
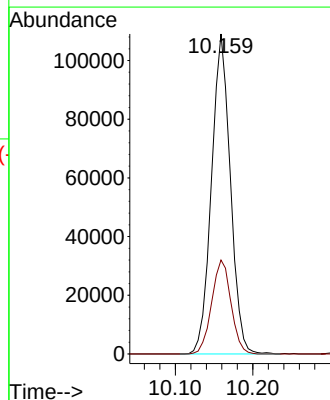
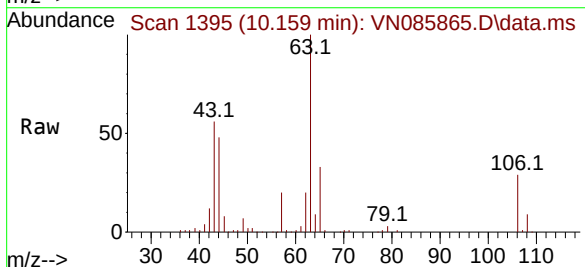
Acq: 26 Feb 2025 12:33

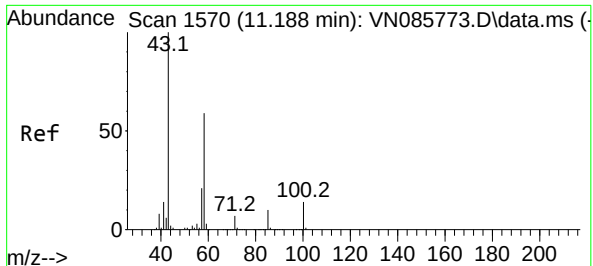
Tgt Ion: 63 Resp: 184371

Ion Ratio Lower Upper

63 100

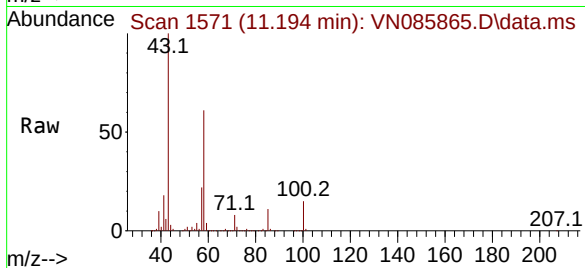
106 30.0 22.7 34.1





#59
2-Hexanone
Concen: 119.646 ug/l
RT: 11.194 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

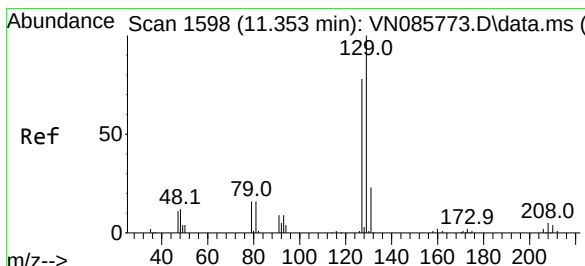
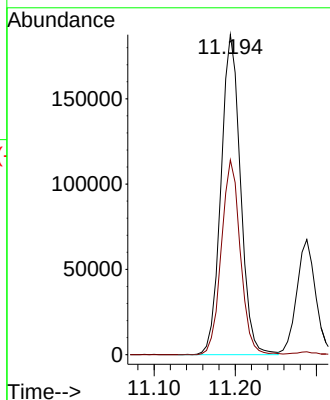
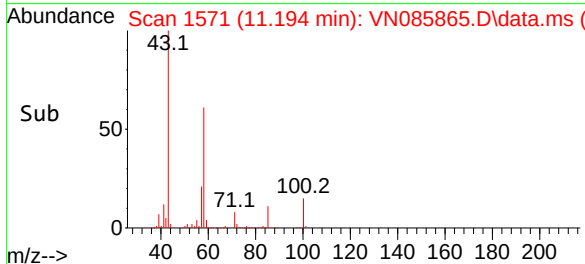
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion: 43 Resp: 313350
Ion Ratio Lower Upper
43 100
58 59.3 29.8 89.5

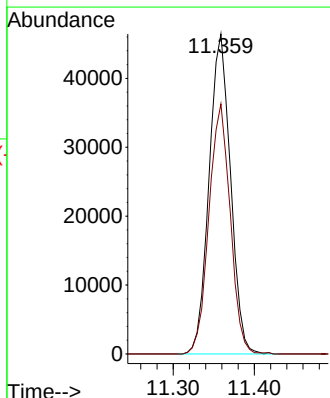
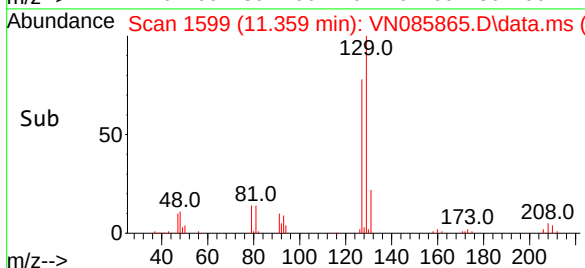
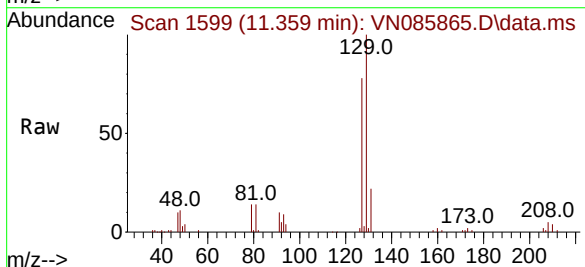
Manual Integrations
APPROVED

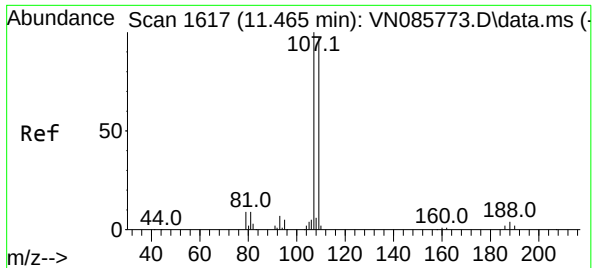
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#60
Dibromochloromethane
Concen: 20.375 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:129 Resp: 85035
Ion Ratio Lower Upper
129 100
127 77.8 39.1 117.5





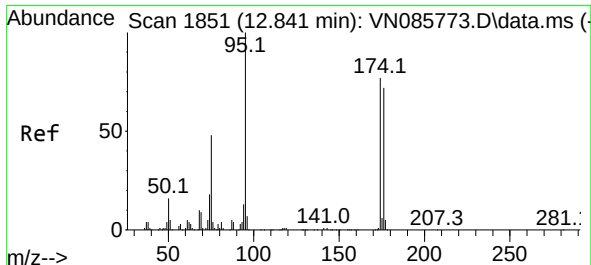
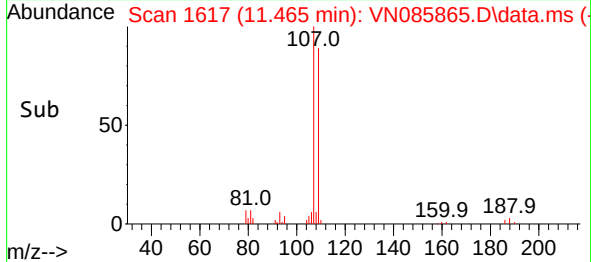
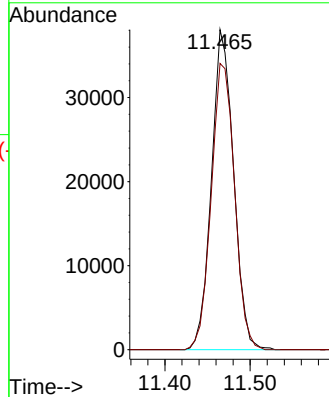
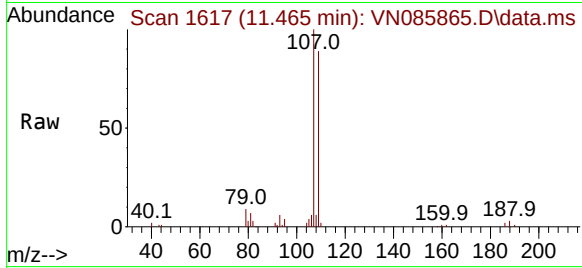
#61
1,2-Dibromoethane
Concen: 20.286 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:107 Resp: 68698
Ion Ratio Lower Upper
107 100
109 94.1 76.0 114.0

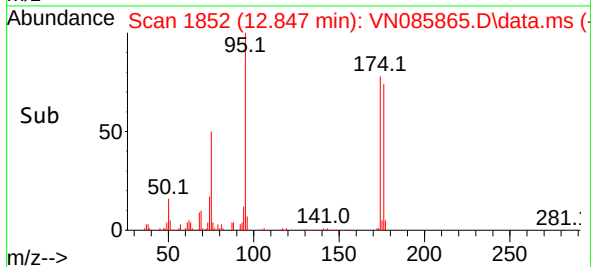
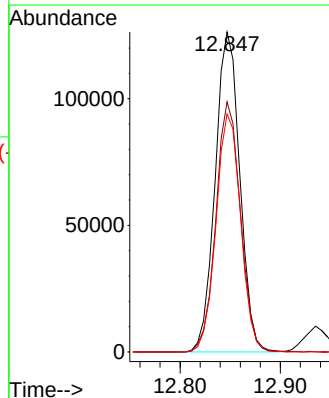
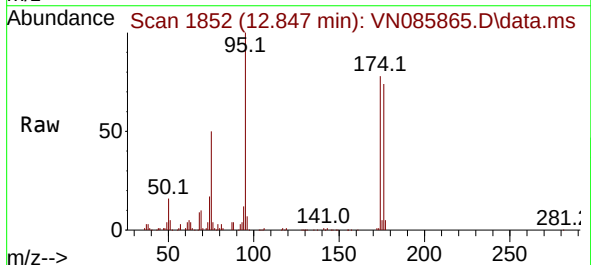
Manual Integrations
APPROVED

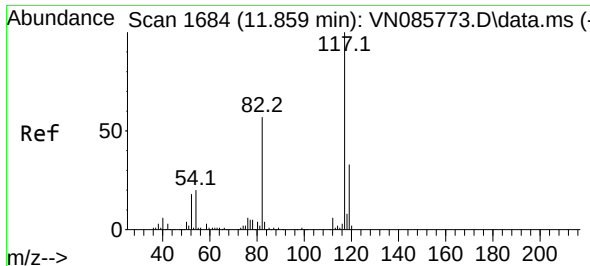
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#62
4-Bromofluorobenzene
Concen: 52.973 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

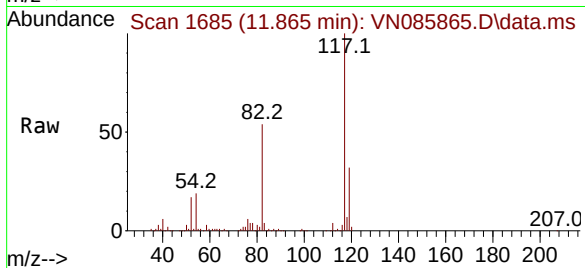
Tgt Ion: 95 Resp: 215283
Ion Ratio Lower Upper
95 100
174 78.0 0.0 152.4
176 74.2 0.0 146.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1684
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

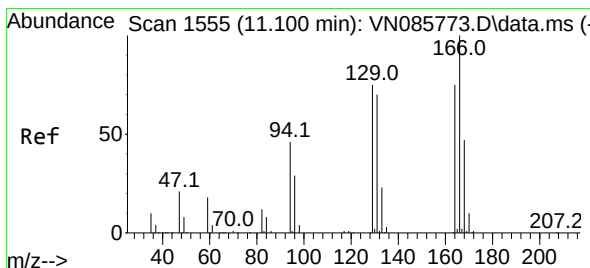
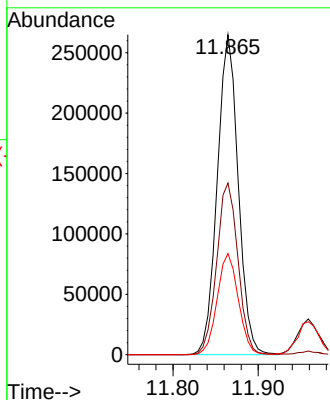
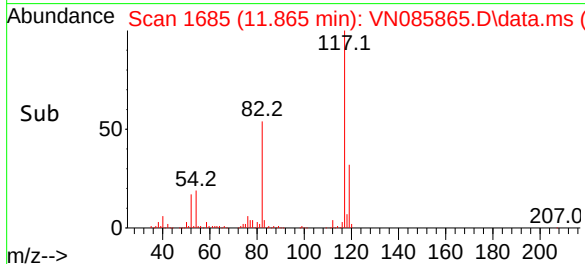
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



Tgt Ion:117 Resp: 453898
Ion Ratio Lower Upper
117 100
82 53.6 45.7 68.5
119 31.6 26.2 39.2

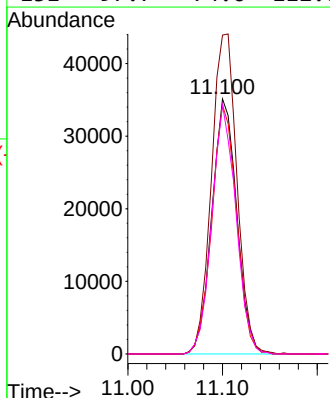
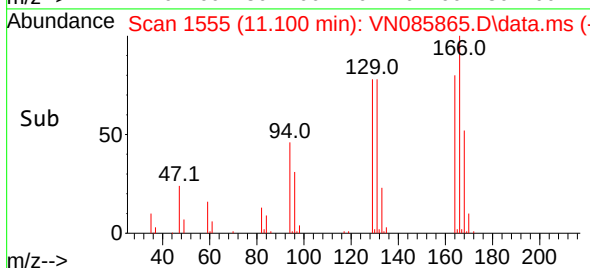
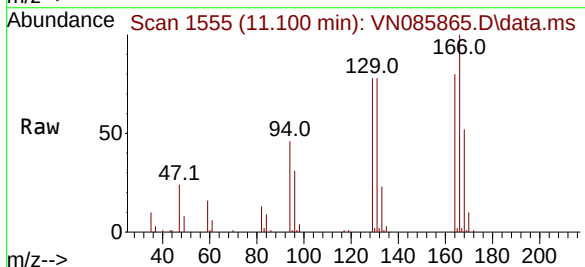
Manual Integrations
APPROVED

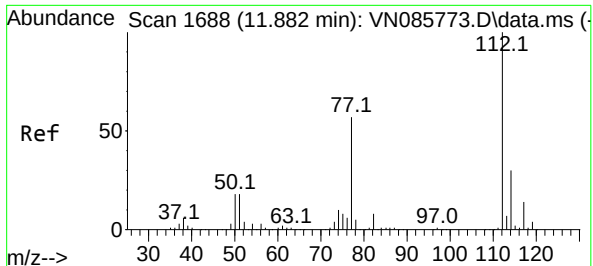
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#64
Tetrachloroethene
Concen: 18.263 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:164 Resp: 64220
Ion Ratio Lower Upper
164 100
166 125.0 107.2 160.8
129 97.6 80.7 121.1
131 97.7 74.6 112.0





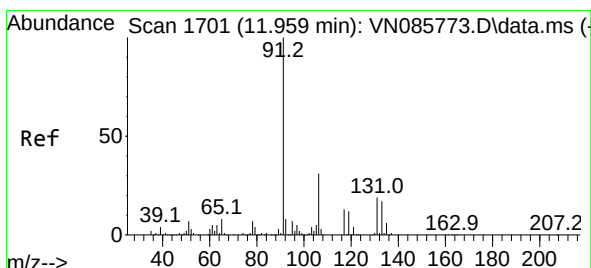
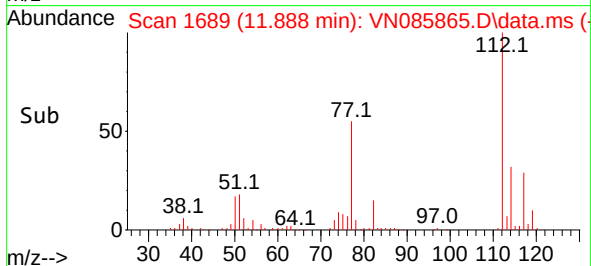
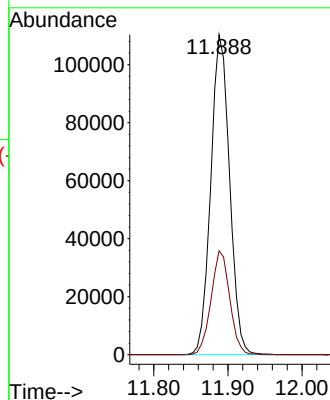
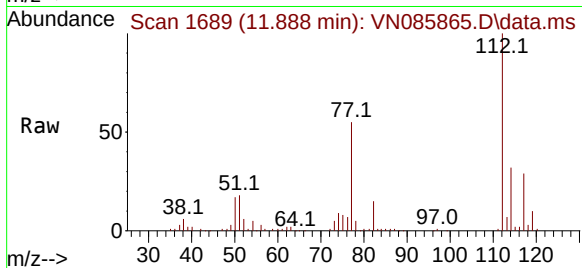
#65
Chlorobenzene
Concen: 18.712 ug/l
RT: 11.888 min Scan# 112
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:112 Resp: 19456
Ion Ratio Lower Upper
112 100
114 32.5 24.3 36.5

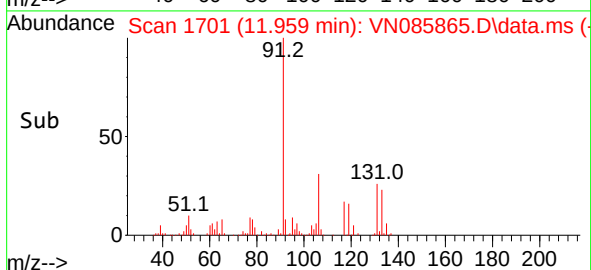
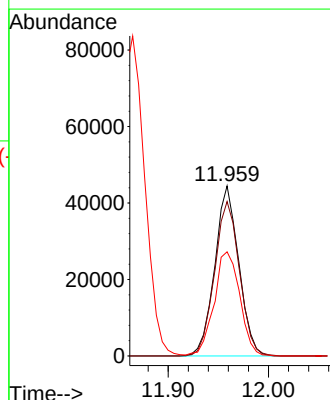
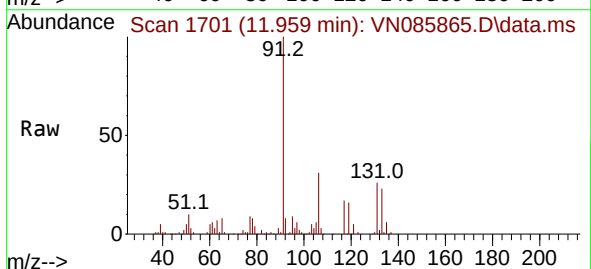
Manual Integrations
APPROVED

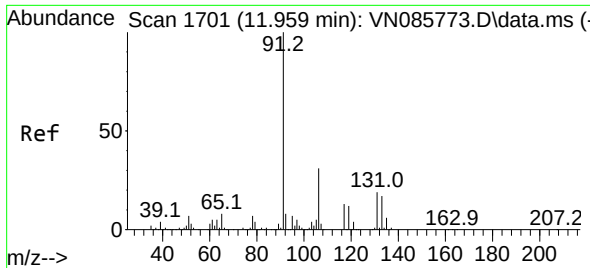
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.755 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:131 Resp: 73832
Ion Ratio Lower Upper
131 100
133 94.3 47.7 143.1
119 65.6 33.3 99.8





#67

Ethyl Benzene

Concen: 18.728 ug/l

RT: 11.965 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 91 Resp: 30504

Ion Ratio Lower Upper

91 100

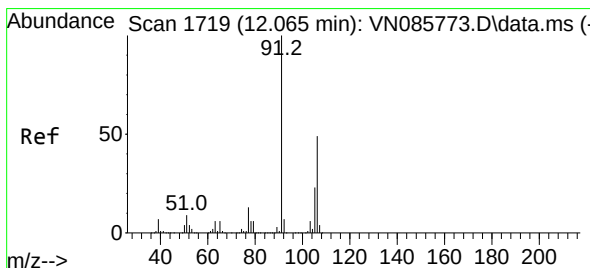
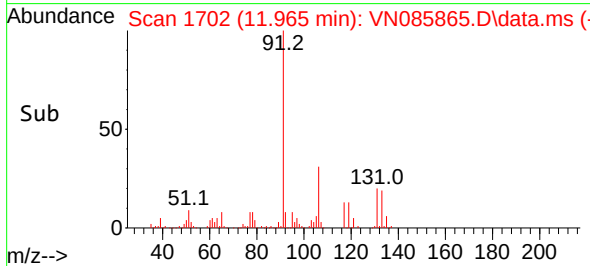
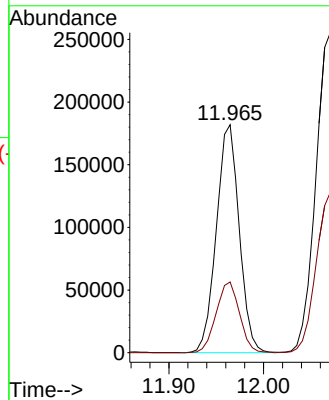
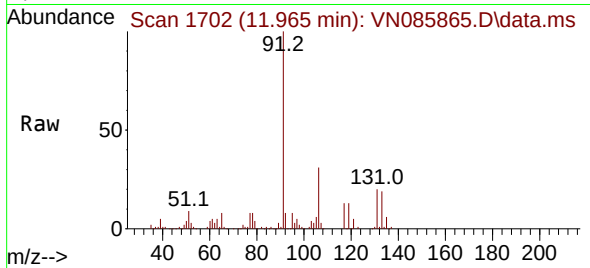
106 31.0 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#68

m/p-Xylenes

Concen: 39.740 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.005 min

Lab File: VN085865.D

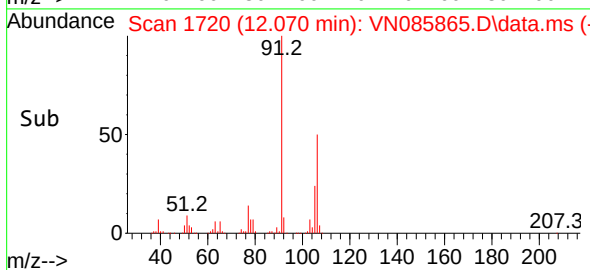
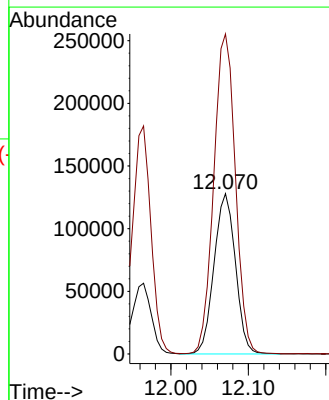
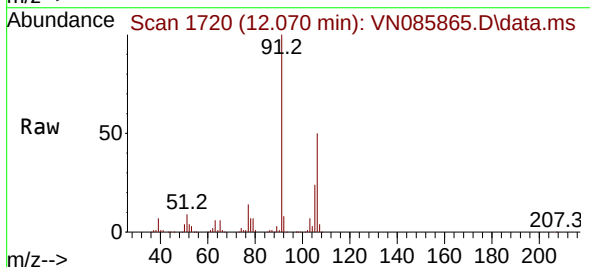
Acq: 26 Feb 2025 12:33

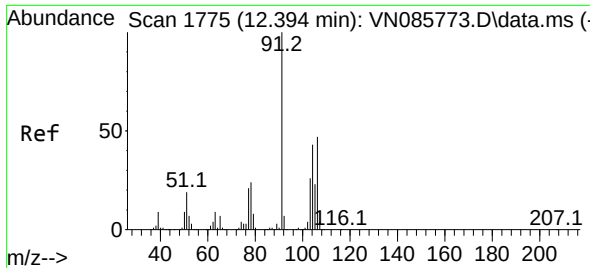
Tgt Ion:106 Resp: 245872

Ion Ratio Lower Upper

106 100

91 201.5 163.3 244.9





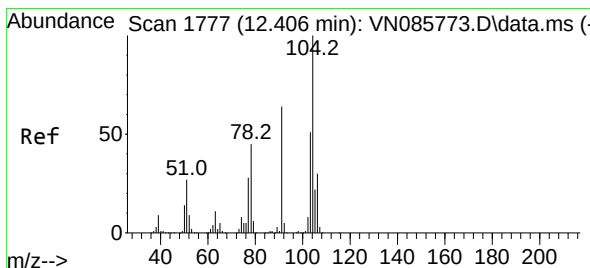
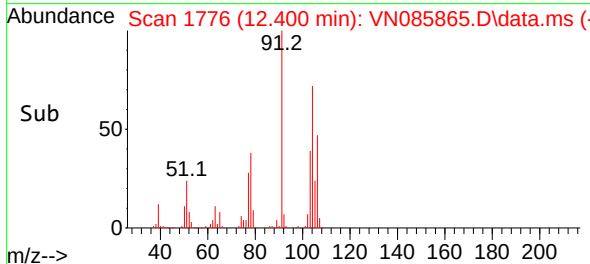
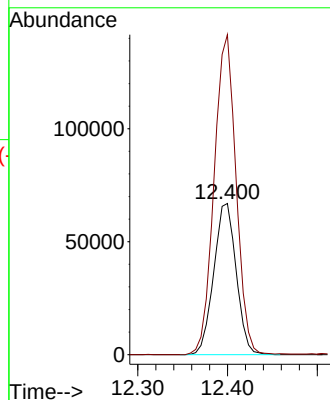
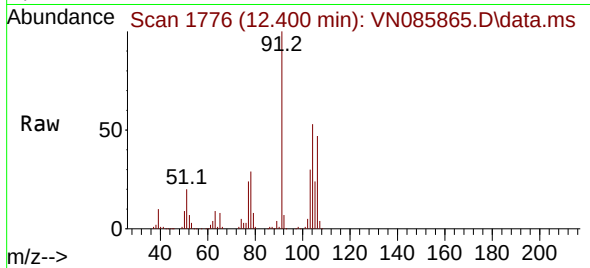
#69
o-Xylene
Concen: 19.766 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:106 Resp: 116210
Ion Ratio Lower Upper
106 100
91 207.3 107.1 321.4

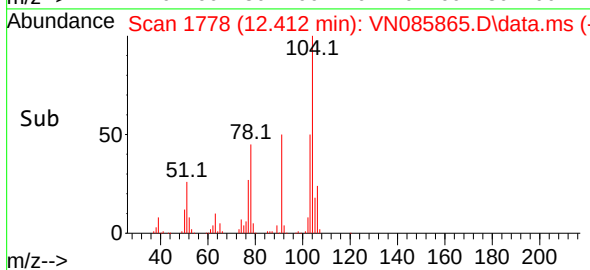
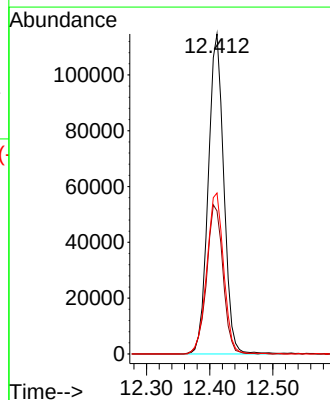
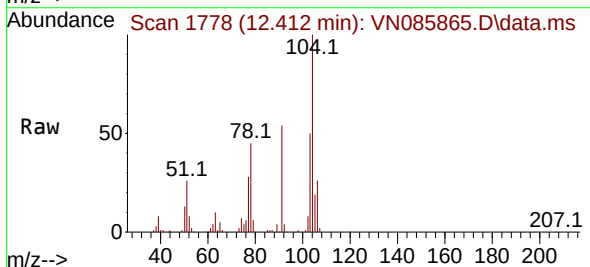
Manual Integrations
APPROVED

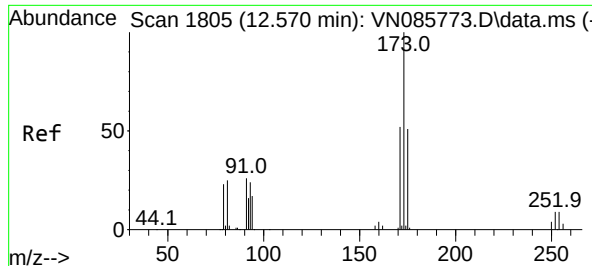
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#70
Styrene
Concen: 19.409 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:104 Resp: 196309
Ion Ratio Lower Upper
104 100
78 49.0 39.0 58.6
103 54.4 43.3 64.9





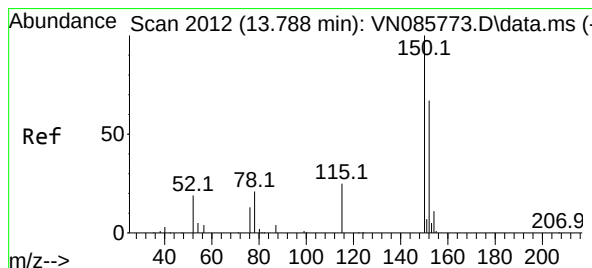
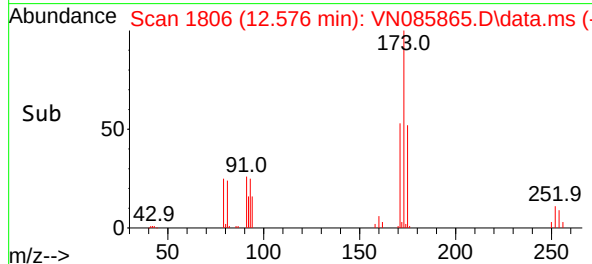
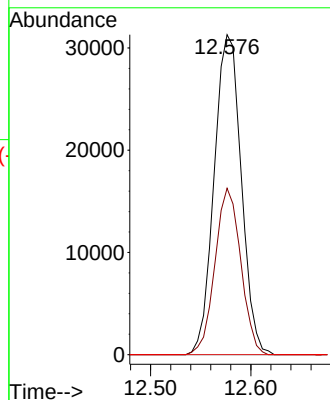
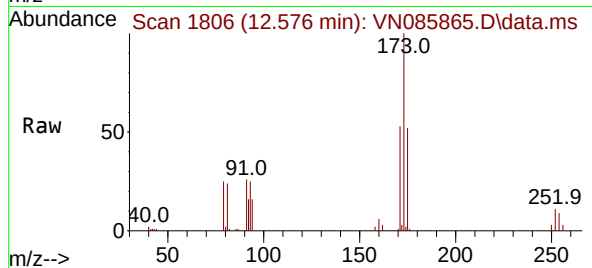
#71
Bromoform
Concen: 21.155 ug/l
RT: 12.576 min Scan# 1805
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:173 Resp: 5875
Ion Ratio Lower Upper
173 100
175 49.6 25.1 75.4
254 0.0 0.0 0.0

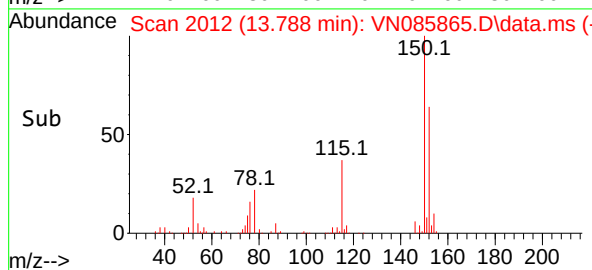
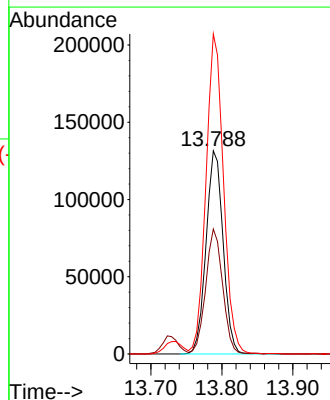
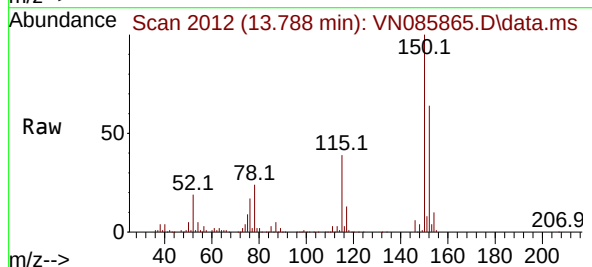
Manual Integrations
APPROVED

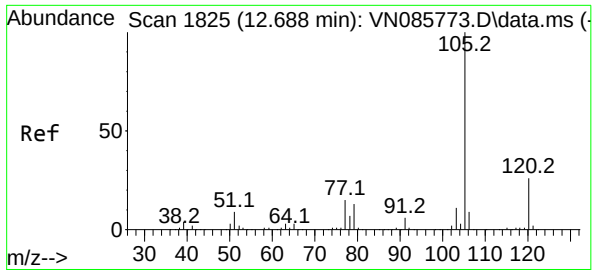
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:152 Resp: 219511
Ion Ratio Lower Upper
152 100
115 60.8 30.4 91.3
150 161.7 0.0 345.4





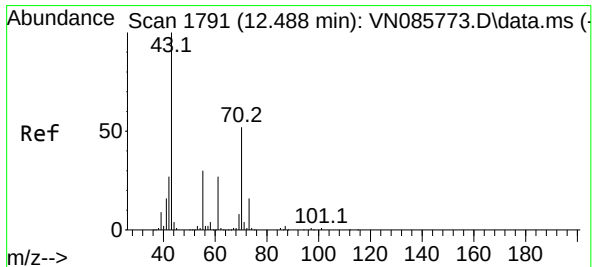
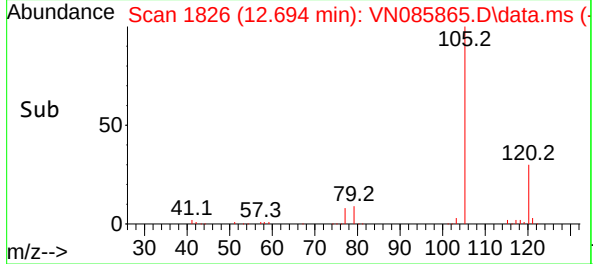
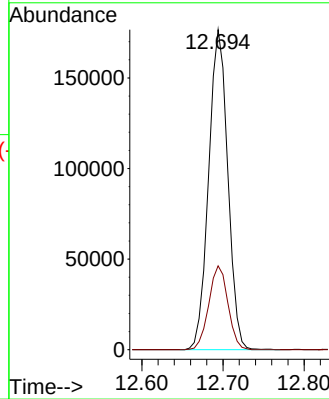
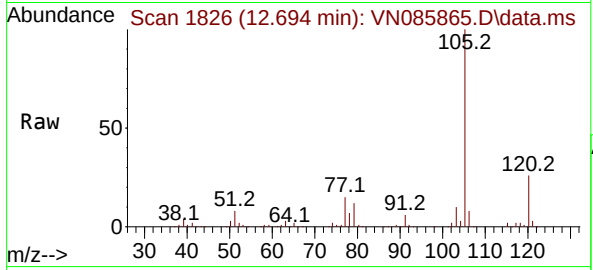
#73
Isopropylbenzene
Concen: 19.187 ug/l
RT: 12.694 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:105 Resp: 28854
Ion Ratio Lower Upper
105 100
120 26.2 13.0 39.0

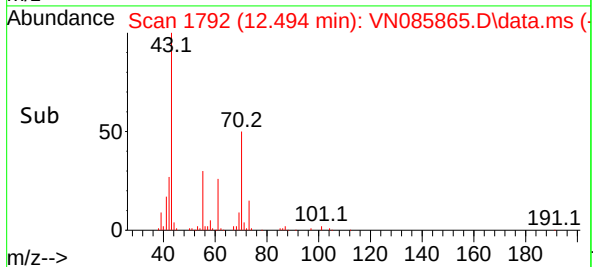
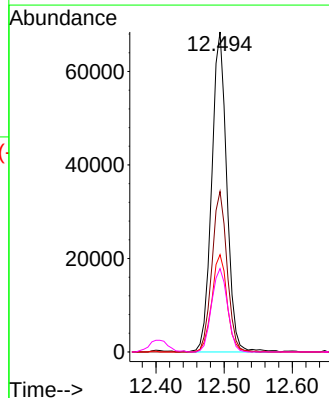
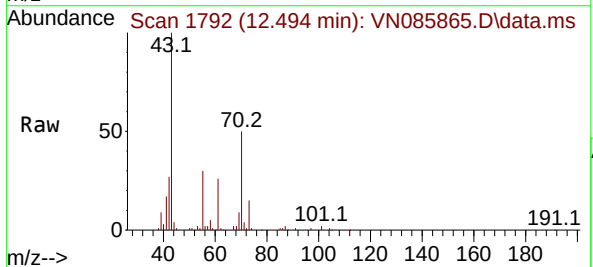
Manual Integrations
APPROVED

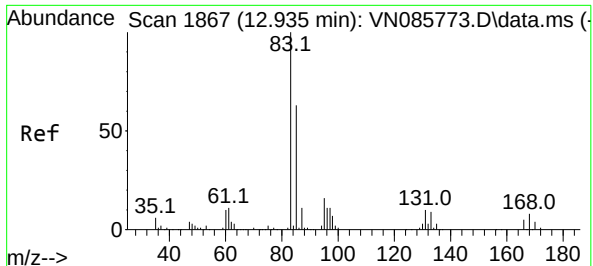
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#74
N-ethyl acetate
Concen: 19.898 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 43 Resp: 105522
Ion Ratio Lower Upper
43 100
70 50.3 41.0 61.4
55 30.9 24.6 36.8
61 27.2 21.6 32.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.141 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion: 83 Resp: 10422

Ion Ratio Lower Upper

83 100

131 10.2 5.0 15.0

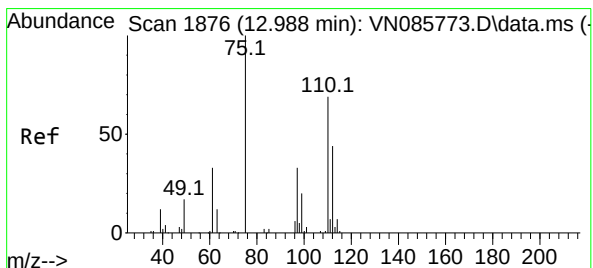
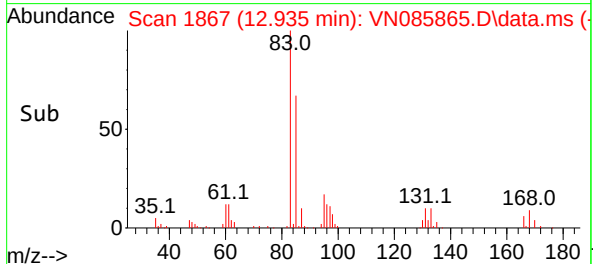
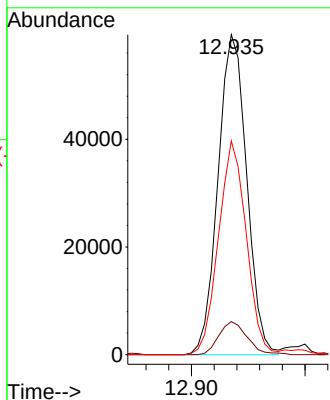
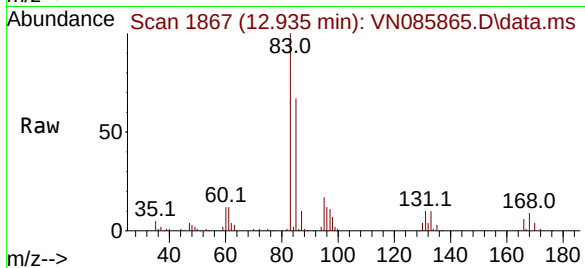
85 64.7 32.2 96.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#76

1,2,3-Trichloropropane

Concen: 19.623 ug/l m

RT: 12.988 min Scan# 1876

Delta R.T. -0.000 min

Lab File: VN085865.D

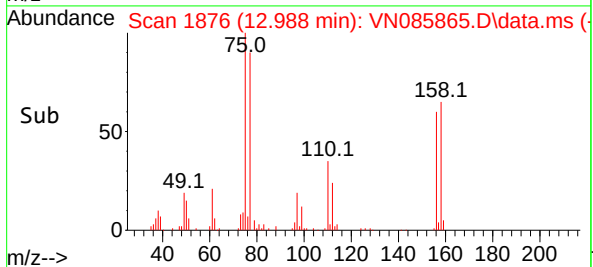
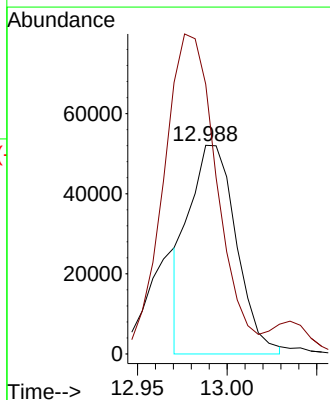
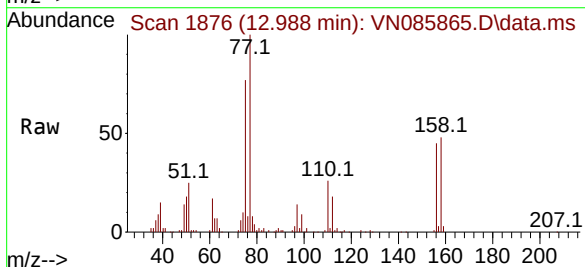
Acq: 26 Feb 2025 12:33

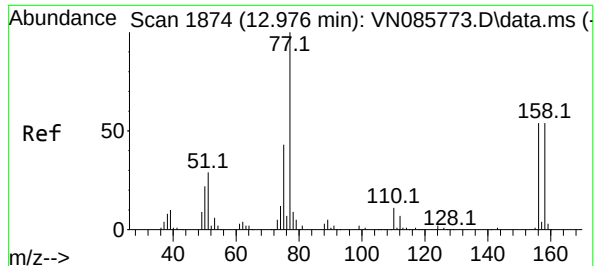
Tgt Ion: 75 Resp: 95683

Ion Ratio Lower Upper

75 100

77 173.4 100.0 300.0





#77

Bromobenzene

Concen: 18.889 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

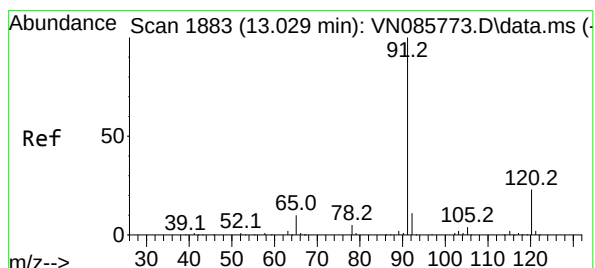
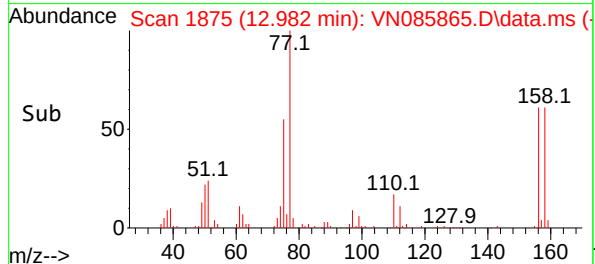
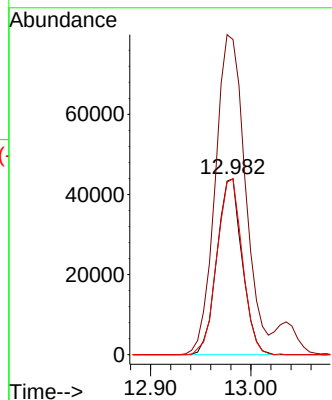
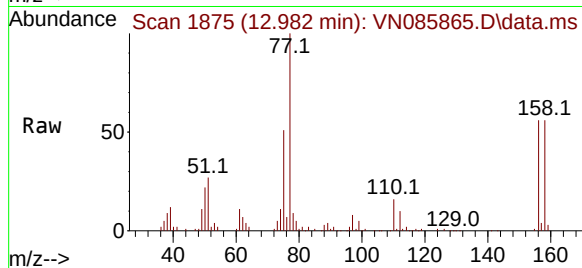
ClientSampleId :

VN0226WBS01

Tgt Ion:156 Resp: 76740
Ion Ratio Lower Upper
156 100
77 216.2 104.1 312.3
158 101.0 48.1 144.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#78

n-propylbenzene

Concen: 19.317 ug/l

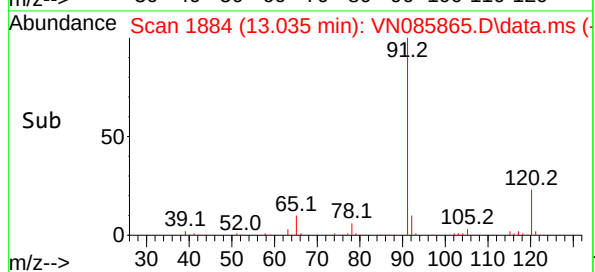
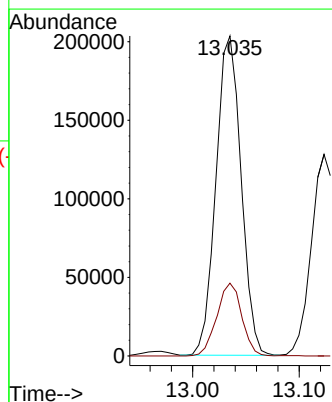
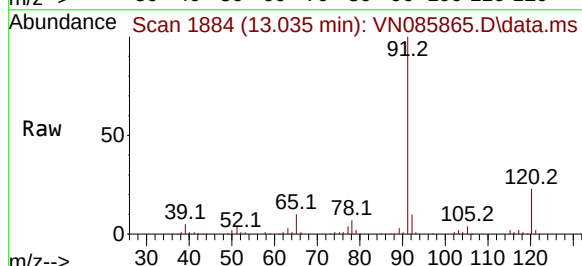
RT: 13.035 min Scan# 1884

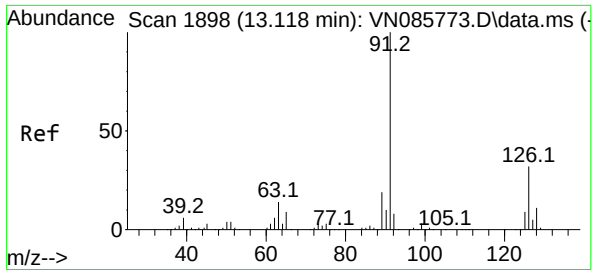
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Tgt Ion: 91 Resp: 332686
Ion Ratio Lower Upper
91 100
120 22.7 11.3 33.8





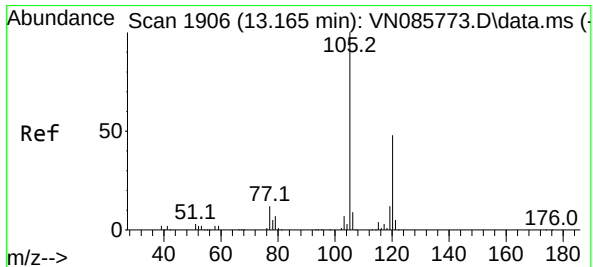
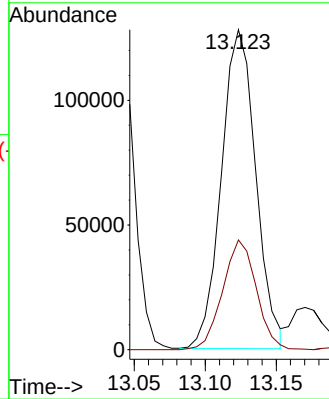
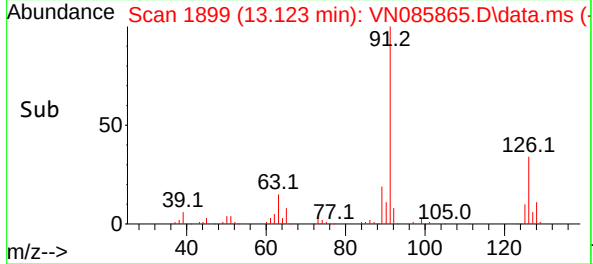
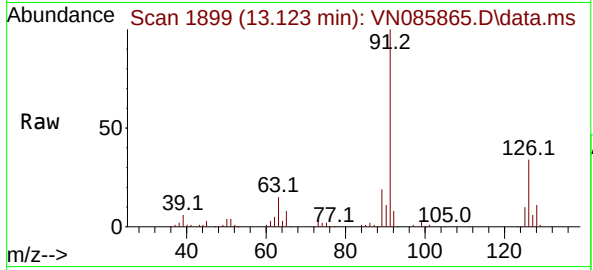
#79
2-Chlorotoluene
Concen: 18.715 ug/l
RT: 13.123 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion: 91 Resp: 215354
Ion Ratio Lower Upper
91 100
126 33.7 16.4 49.1

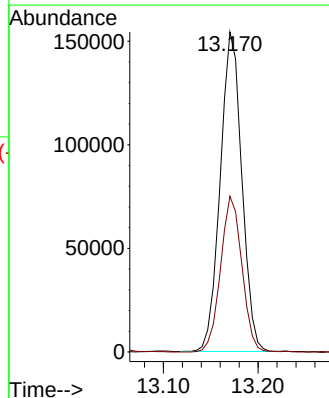
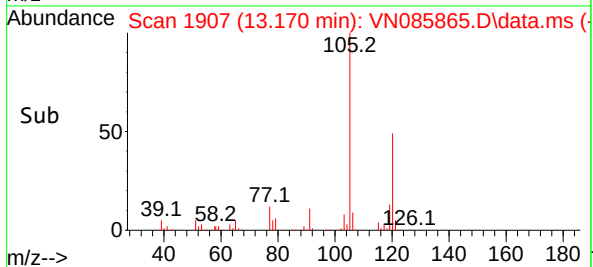
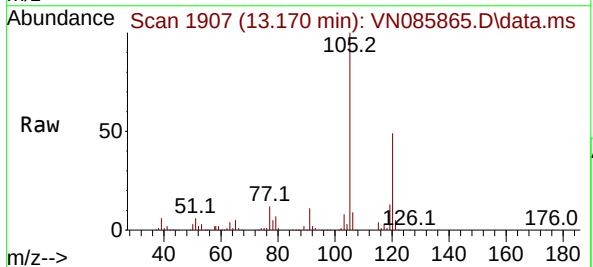
Manual Integrations
APPROVED

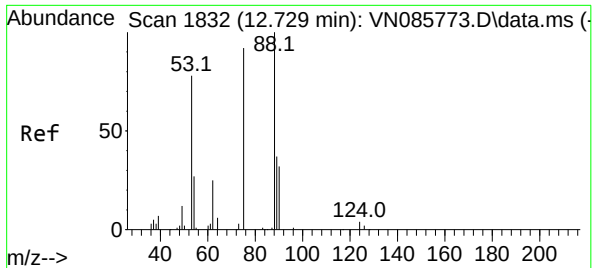
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.939 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:105 Resp: 244262
Ion Ratio Lower Upper
105 100
120 48.2 24.3 72.9





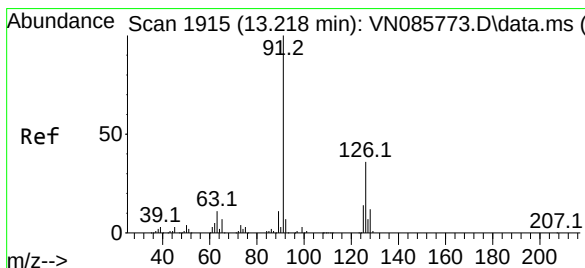
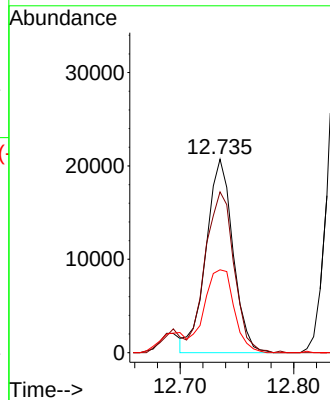
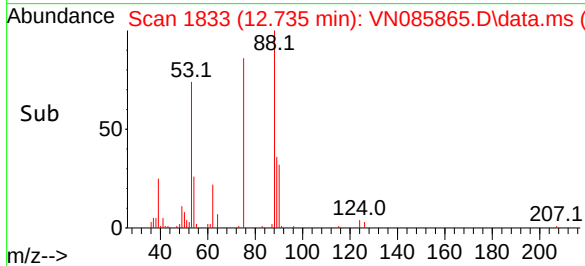
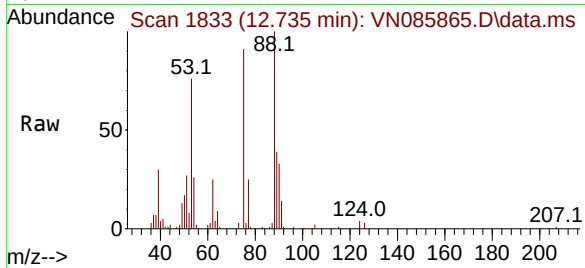
#81
trans-1,4-Dichloro-2-butene
Concen: 20.479 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion: 75 Resp: 34224
Ion Ratio Lower Upper
75 100
53 88.5 74.2 111.4
89 47.3 34.9 52.3

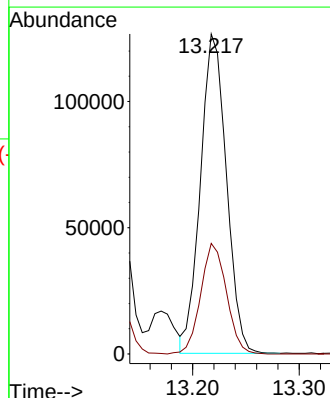
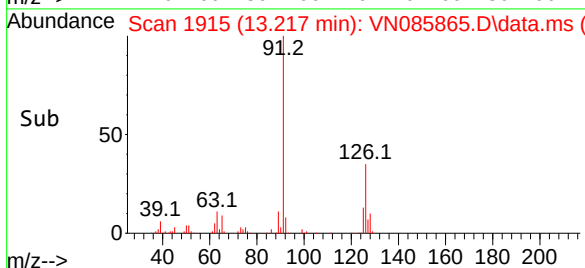
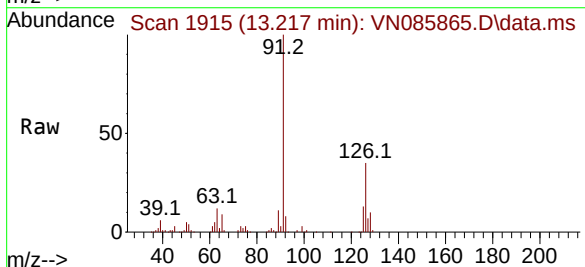
Manual Integrations
APPROVED

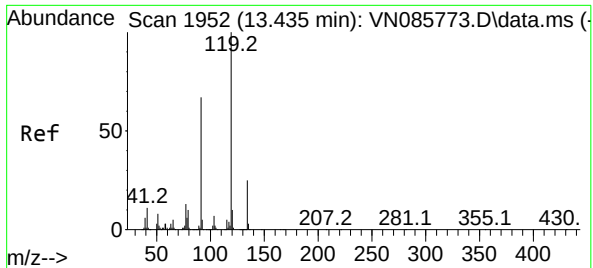
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#82
4-Chlorotoluene
Concen: 18.801 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 91 Resp: 214477
Ion Ratio Lower Upper
91 100
126 34.4 16.4 49.4





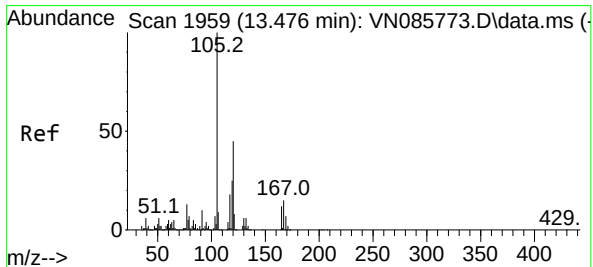
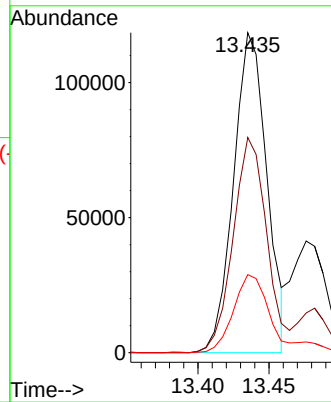
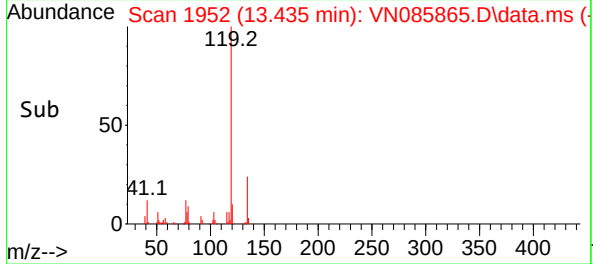
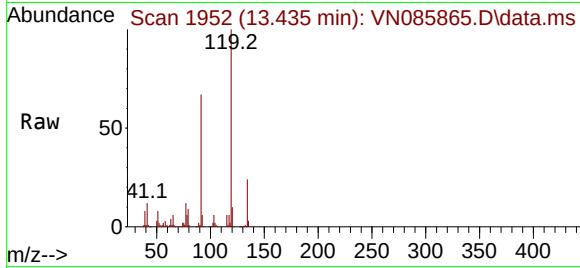
#83
tert-Butylbenzene
Concen: 18.751 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:119 Resp: 19316
Ion Ratio Lower Upper
119 100
91 68.3 32.5 97.5
134 28.2 13.3 39.9

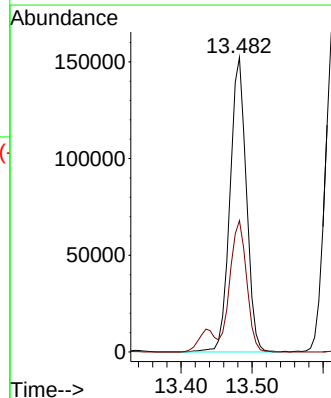
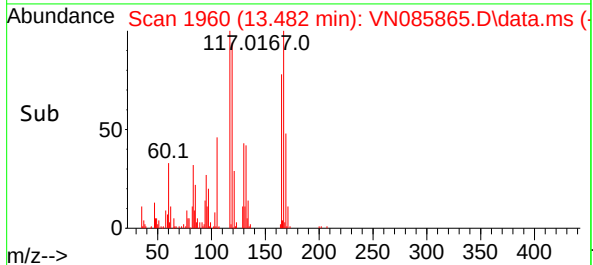
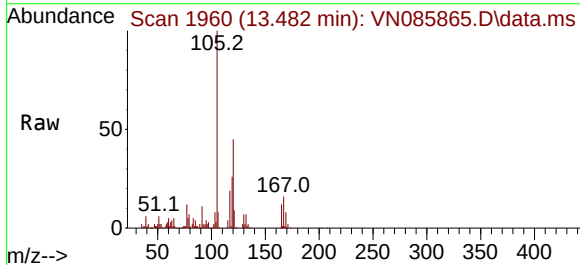
Manual Integrations
APPROVED

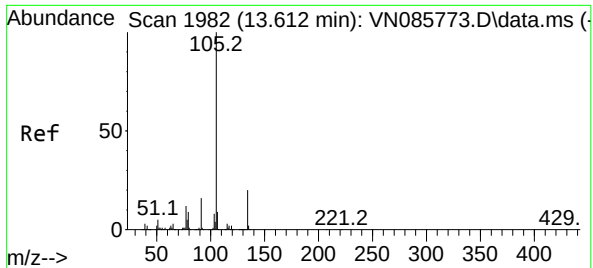
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.100 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

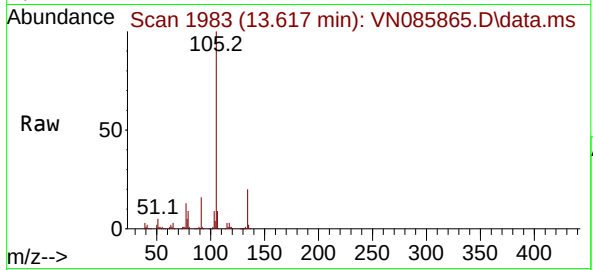
Tgt Ion:105 Resp: 243615
Ion Ratio Lower Upper
105 100
120 45.1 22.4 67.3





#85
sec-Butylbenzene
Concen: 18.797 ug/l
RT: 13.617 min Scan# 1982
Delta R.T. 0.005 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

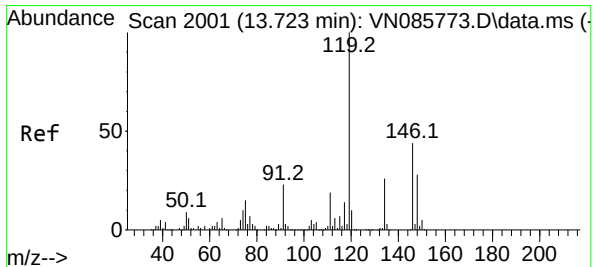
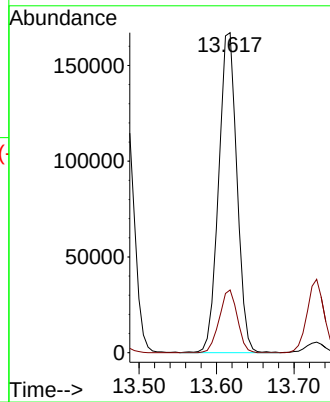
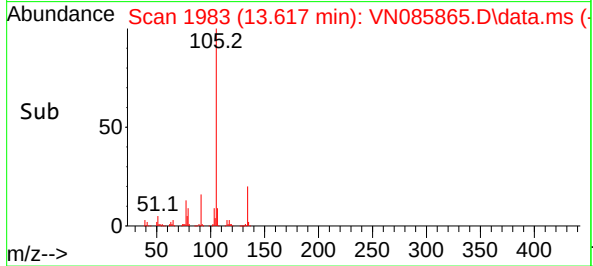
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



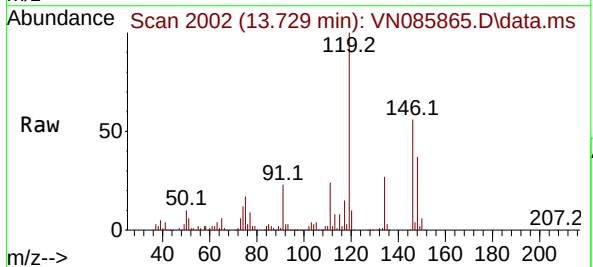
Tgt Ion:105 Resp: 273580
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.4

Manual Integrations
APPROVED

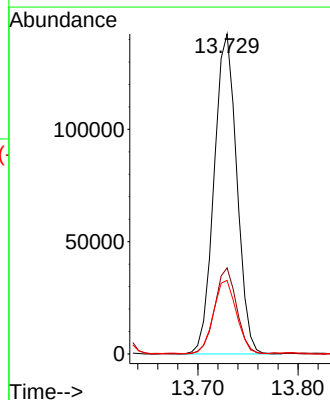
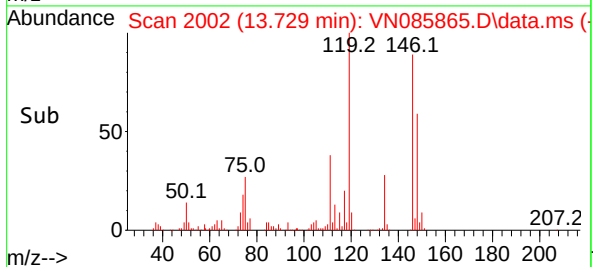
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

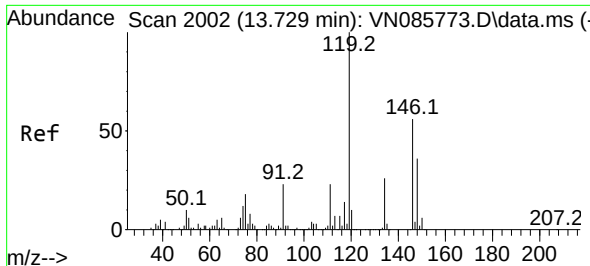


#86
p-Isopropyltoluene
Concen: 18.120 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33



Tgt Ion:119 Resp: 224324
Ion Ratio Lower Upper
119 100
134 26.1 13.0 39.0
91 23.1 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 18.043 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion:146 Resp: 13734

Ion Ratio Lower Upper

146 100

111 41.7 21.1 63.3

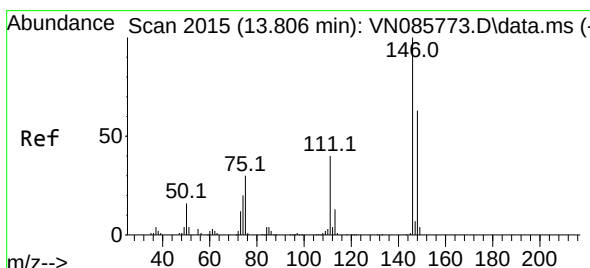
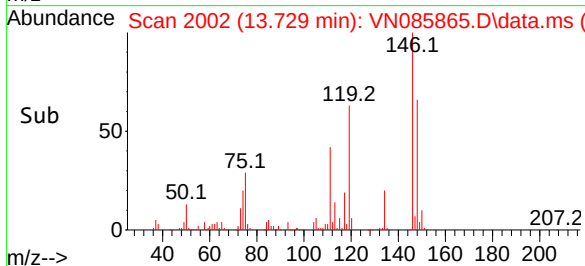
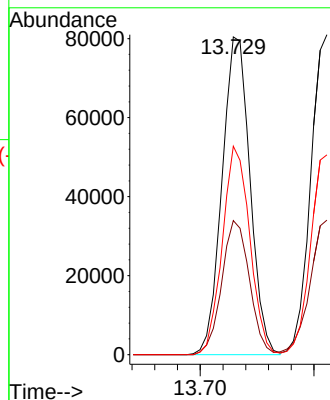
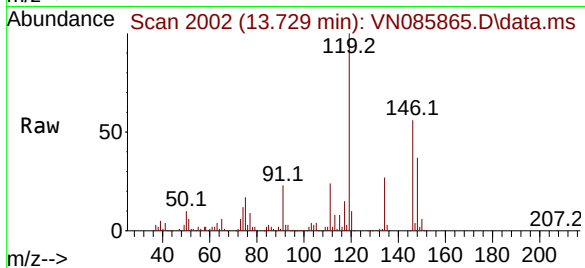
148 64.4 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#88

1,4-Dichlorobenzene

Concen: 17.871 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

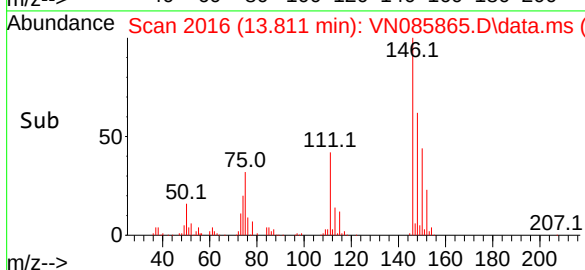
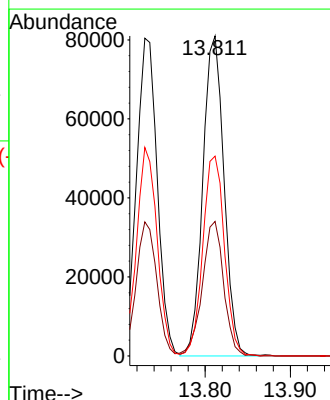
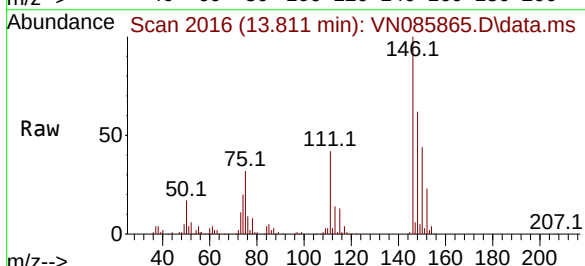
Tgt Ion:146 Resp: 139430

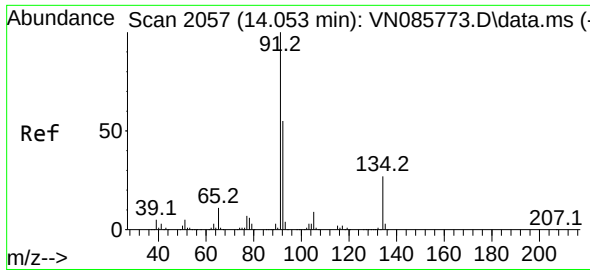
Ion Ratio Lower Upper

146 100

111 42.7 20.4 61.3

148 64.1 31.8 95.4





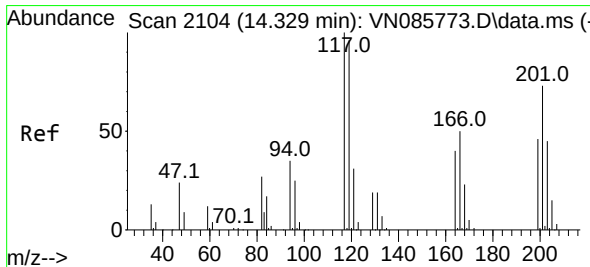
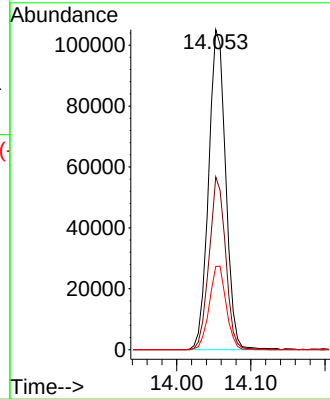
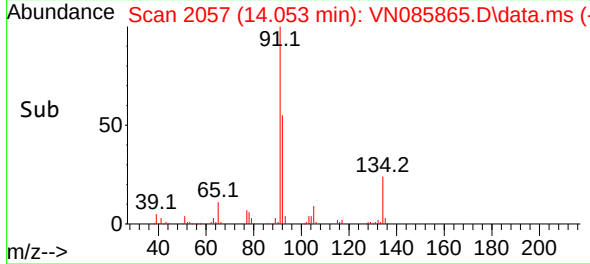
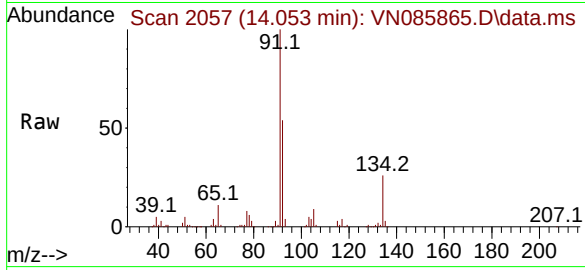
#89
n-Butylbenzene
Concen: 16.253 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion: 91 Resp: 167954
Ion Ratio Lower Upper
91 100
92 52.1 27.1 81.3
134 25.8 12.7 38.1

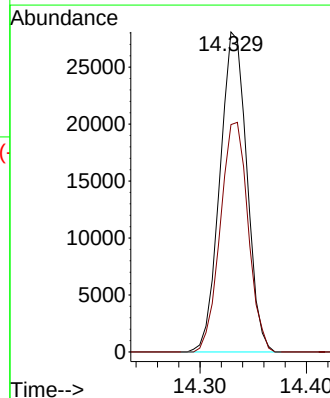
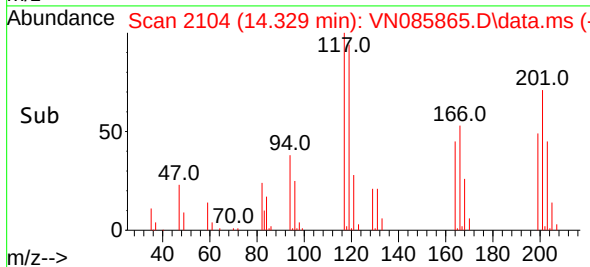
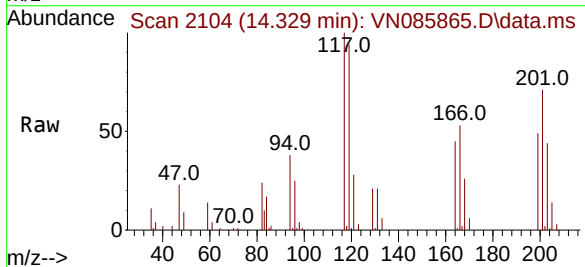
Manual Integrations
APPROVED

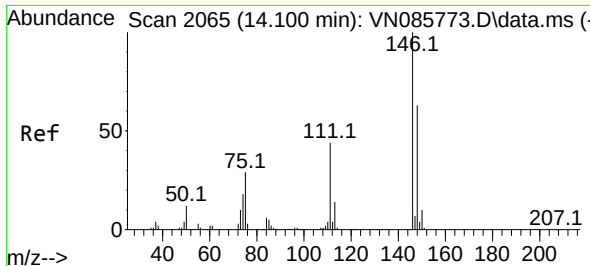
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#90
Hexachloroethane
Concen: 17.896 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion:117 Resp: 49330
Ion Ratio Lower Upper
117 100
201 74.0 35.6 106.9





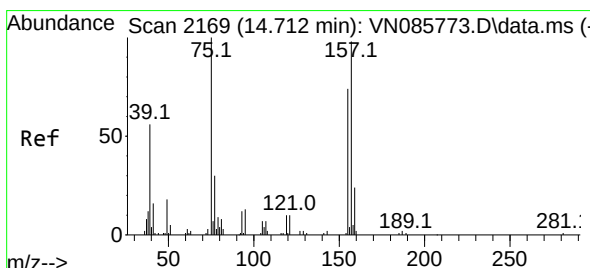
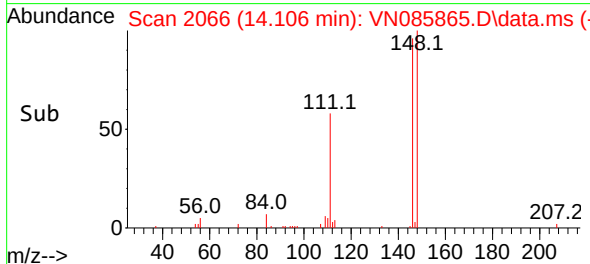
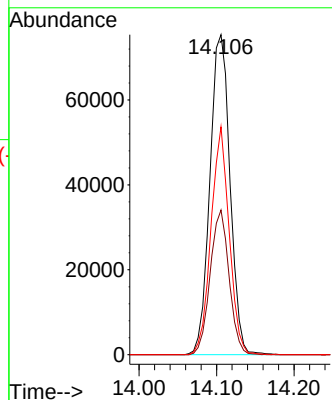
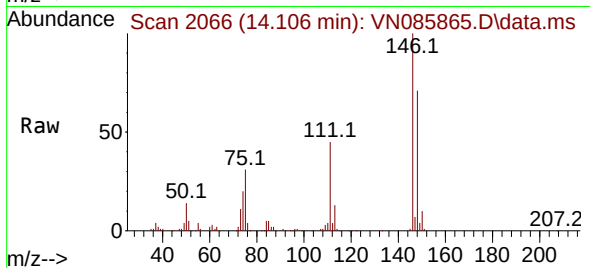
#91
1,2-Dichlorobenzene
Concen: 18.526 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01

Tgt Ion:146 Resp: 13561
Ion Ratio Lower Upper
146 100
111 42.6 21.4 64.3
148 64.5 32.0 96.2

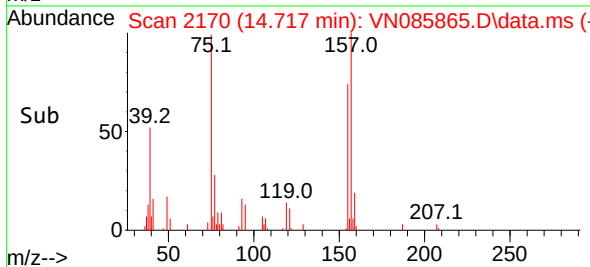
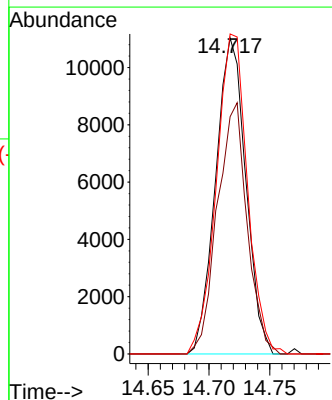
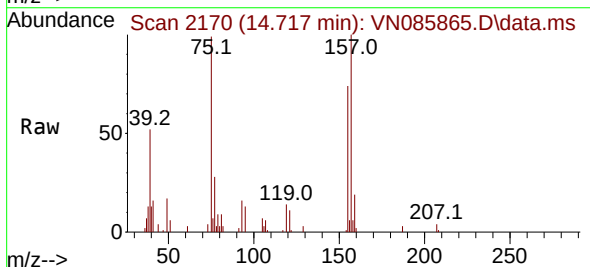
Manual Integrations
APPROVED

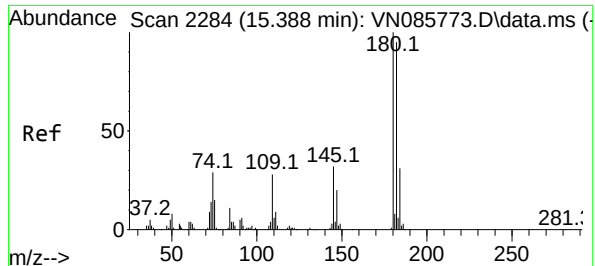
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.996 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

Tgt Ion: 75 Resp: 19002
Ion Ratio Lower Upper
75 100
155 78.5 39.9 119.6
157 104.2 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 16.812 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

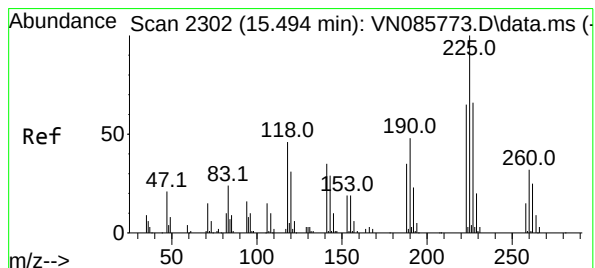
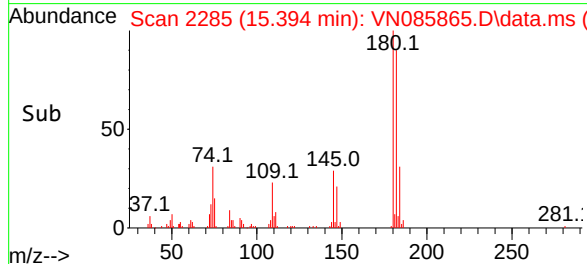
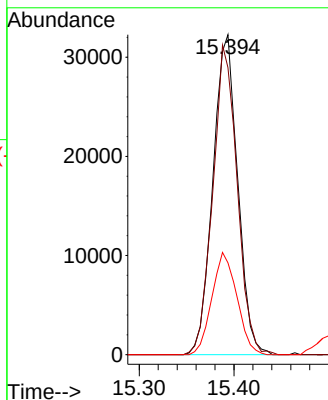
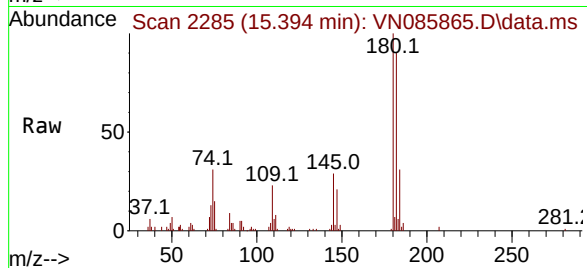
Instrument :

MSVOA_N

ClientSampleId :

VN0226WBS01

Tgt Ion:180	Resp:	5864
Ion Ratio	Lower	Upper
180	100	
182	95.2	47.3 141.9
145	32.3	16.2 48.5

Manual Integrations
APPROVEDReviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

#94

Hexachlorobutadiene

Concen: 15.517 ug/l

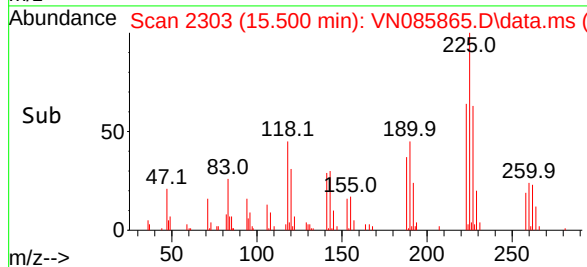
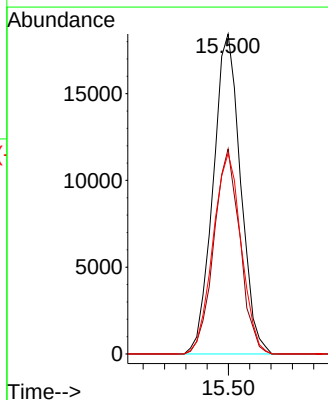
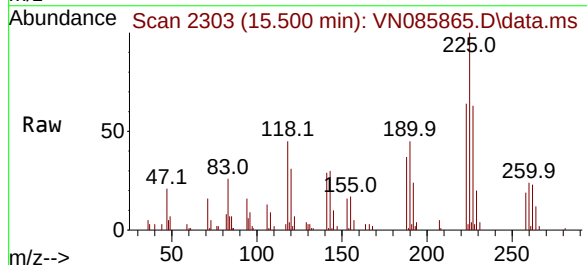
RT: 15.500 min Scan# 2303

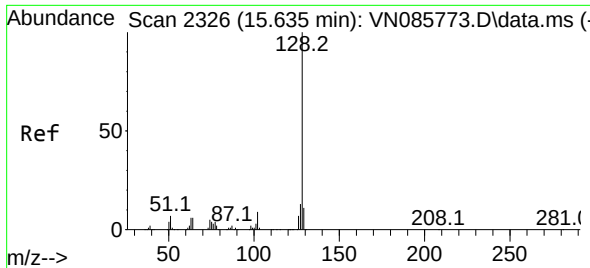
Delta R.T. 0.006 min

Lab File: VN085865.D

Acq: 26 Feb 2025 12:33

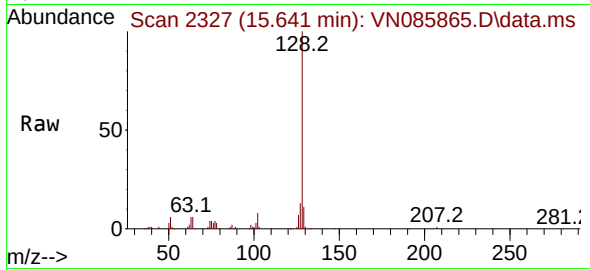
Tgt Ion:225	Resp:	32894
Ion Ratio	Lower	Upper
225	100	
223	61.0	31.9 95.5
227	64.5	32.2 96.6





#95
Naphthalene
Concen: 17.524 ug/l
RT: 15.641 min Scan# 2326
Delta R.T. 0.006 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33

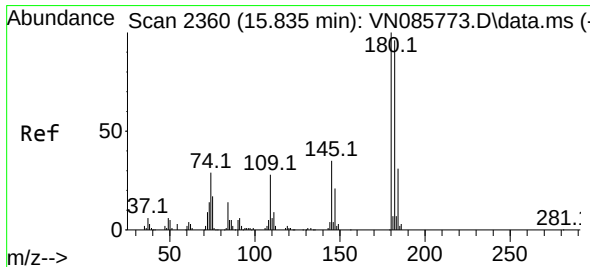
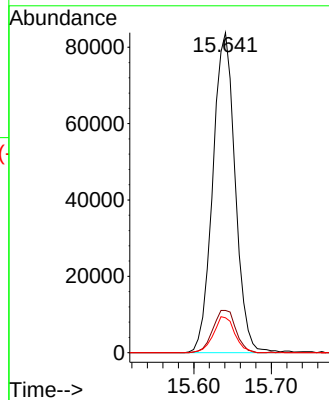
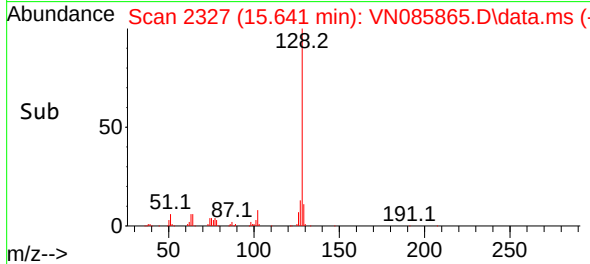
Instrument :
MSVOA_N
ClientSampleId :
VN0226WBS01



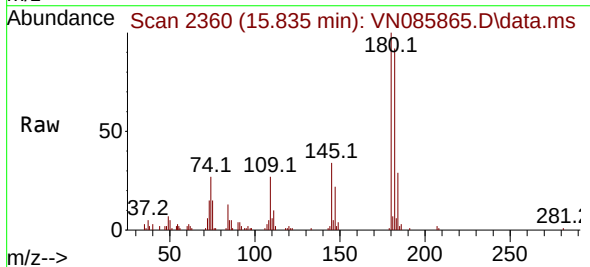
Tgt Ion:128 Resp: 16781
Ion Ratio Lower Upper
128 100
127 13.6 10.2 15.2
129 10.7 8.7 13.1

Manual Integrations
APPROVED

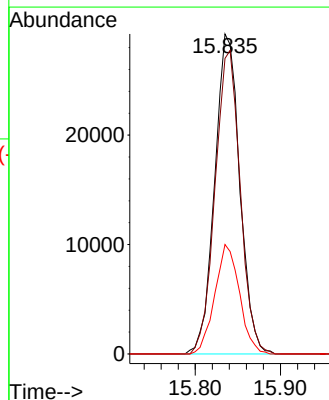
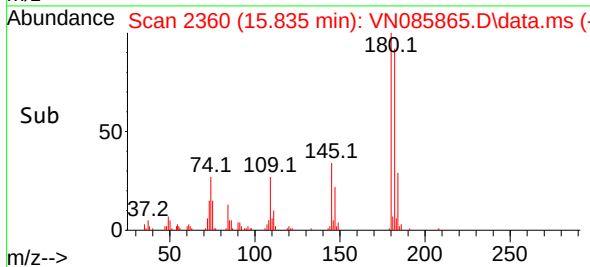
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.060 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085865.D
Acq: 26 Feb 2025 12:33



Tgt Ion:180 Resp: 59740
Ion Ratio Lower Upper
180 100
182 95.0 47.3 141.8
145 33.6 16.9 50.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MS		SDG No.:	Q1421	
Lab Sample ID:	Q1421-05MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085876.D	1		02/26/25 17:09	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	40.8		0.21	5.00	ug/L
74-87-3	Chloromethane	41.8		0.35	5.00	ug/L
75-01-4	Vinyl Chloride	42.2		0.34	5.00	ug/L
74-83-9	Bromomethane	40.5		1.40	5.00	ug/L
75-00-3	Chloroethane	41.2		0.56	5.00	ug/L
75-69-4	Trichlorofluoromethane	41.2		0.34	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	42.0		0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	44.6		0.26	5.00	ug/L
67-64-1	Acetone	280		1.40	25.0	ug/L
75-15-0	Carbon Disulfide	37.5		0.32	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	50.9		0.16	5.00	ug/L
79-20-9	Methyl Acetate	50.0		0.60	5.00	ug/L
75-09-2	Methylene Chloride	47.9		0.32	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	42.9		0.25	5.00	ug/L
75-34-3	1,1-Dichloroethane	45.7		0.23	5.00	ug/L
110-82-7	Cyclohexane	38.3		1.60	5.00	ug/L
78-93-3	2-Butanone	260		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	42.7		0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	46.3		0.25	5.00	ug/L
74-97-5	Bromochloromethane	53.0		0.18	5.00	ug/L
67-66-3	Chloroform	45.9		0.26	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	43.2		0.19	5.00	ug/L
108-87-2	Methylcyclohexane	41.8		0.19	5.00	ug/L
71-43-2	Benzene	45.6		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	44.8		0.24	5.00	ug/L
79-01-6	Trichloroethene	42.0		0.32	5.00	ug/L
78-87-5	1,2-Dichloropropane	47.8		0.19	5.00	ug/L
75-27-4	Bromodichloromethane	46.4		0.24	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	270		0.75	25.0	ug/L
108-88-3	Toluene	47.8		0.18	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MS		SDG No.:	Q1421	
Lab Sample ID:	Q1421-05MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085876.D	1		02/26/25 17:09	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	48.7		0.21	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	48.7		0.18	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	48.4		0.21	5.00	ug/L
591-78-6	2-Hexanone	280		1.10	25.0	ug/L
124-48-1	Dibromochloromethane	49.8		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	49.2		0.16	5.00	ug/L
127-18-4	Tetrachloroethene	44.8		0.25	5.00	ug/L
108-90-7	Chlorobenzene	44.6		0.13	5.00	ug/L
100-41-4	Ethyl Benzene	47.0		0.16	5.00	ug/L
179601-23-1	m/p-Xylenes	99.2		0.31	10.0	ug/L
95-47-6	o-Xylene	49.4		0.14	5.00	ug/L
100-42-5	Styrene	46.4		0.16	5.00	ug/L
75-25-2	Bromoform	50.2		0.21	5.00	ug/L
98-82-8	Isopropylbenzene	45.4		0.13	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	45.2		0.27	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	43.4		0.24	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	42.1		0.27	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	44.2		0.19	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	44.1		0.46	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	43.2		0.42	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	42.8		0.51	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.4		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	47.9		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		77 - 121	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	268000	8.224			
540-36-3	1,4-Difluorobenzene	447000	9.1			
3114-55-4	Chlorobenzene-d5	395000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	198000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MS		SDG No.:	Q1421	
Lab Sample ID:	Q1421-05MS		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085876.D	1		02/26/25 17:09	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085876.D
 Acq On : 26 Feb 2025 17:09
 Operator : JC\MD
 Sample : Q1421-05MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :John Carlone 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 23:07:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	267945	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	447222	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	395097	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	197597	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	161156	46.392	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.780%
35) Dibromofluoromethane	8.159	113	141996	48.522	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.040%
50) Toluene-d8	10.565	98	510198	47.919	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.840%
62) 4-Bromofluorobenzene	12.847	95	181956	51.869	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.740%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	148624	40.779	ug/l	99
3) Chloromethane	2.359	50	152770	41.773	ug/l	100
4) Vinyl Chloride	2.512	62	163386	42.194	ug/l	96
5) Bromomethane	2.948	94	100335	40.523	ug/l	98
6) Chloroethane	3.118	64	105625	41.181	ug/l	100
7) Trichlorofluoromethane	3.495	101	231027	41.208	ug/l	97
8) Diethyl Ether	3.959	74	87274	48.112	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	135987	41.962	ug/l	98
10) Methyl Iodide	4.589	142	185129	46.344	ug/l	99
11) Tert butyl alcohol	5.518	59	105645	247.265	ug/l	99
12) 1,1-Dichloroethene	4.342	96	131169	44.640	ug/l	98
13) Acrolein	4.177	56	139709	220.503	ug/l	98
14) Allyl chloride	5.018	41	172310	44.665	ug/l	94
15) Acrylonitrile	5.718	53	355753	256.127	ug/l	99
16) Acetone	4.424	43	306006	278.395	ug/l	96
17) Carbon Disulfide	4.712	76	326672	37.512	ug/l	100
18) Methyl Acetate	5.024	43	189184	50.040	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	444552	50.913	ug/l	99
20) Methylene Chloride	5.277	84	169406	47.925	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	135624	42.865	ug/l	92
22) Diisopropyl ether	6.671	45	441967	50.700	ug/l	97
23) Vinyl Acetate	6.600	43	1429563	239.509	ug/l	99
24) 1,1-Dichloroethane	6.571	63	271089	45.746	ug/l	98
25) 2-Butanone	7.477	43	423433	261.848	ug/l	100
26) 2,2-Dichloropropane	7.488	77	206206	39.133	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	169755	46.273	ug/l	98
28) Bromochloromethane	7.812	49	129172	53.035	ug/l	99
29) Tetrahydrofuran	7.835	42	276604	264.888	ug/l	98
30) Chloroform	7.965	83	284050	45.868	ug/l	95
31) Cyclohexane	8.253	56	190007	38.295	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	237977	43.205	ug/l	96
36) 1,1-Dichloropropene	8.371	75	177111	42.763	ug/l	99
37) Ethyl Acetate	7.559	43	168068	49.311	ug/l	99
38) Carbon Tetrachloride	8.359	117	210041	42.682	ug/l	96
39) Methylcyclohexane	9.600	83	170248	41.843	ug/l	99
40) Benzene	8.606	78	605953	45.649	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085876.D
 Acq On : 26 Feb 2025 17:09
 Operator : JC\MD
 Sample : Q1421-05MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-CLAY-CF01-01MS

Quant Time: Feb 26 23:07:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	89170	48.940	ug/l	92
42) 1,2-Dichloroethane	8.665	62	193711	44.801	ug/l	98
43) Isopropyl Acetate	8.688	43	278996	46.605	ug/l	97
44) Trichloroethene	9.347	130	136865	41.993	ug/l	97
45) 1,2-Dichloropropane	9.618	63	153228	47.822	ug/l	99
46) Dibromomethane	9.706	93	104333	46.163	ug/l	97
47) Bromodichloromethane	9.888	83	224295	46.386	ug/l	98
48) Methyl methacrylate	9.676	41	127629	50.422	ug/l	94
49) 1,4-Dioxane	9.688	88	54900	1140.553	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	884723	269.232	ug/l	98
52) Toluene	10.629	92	371965	47.803	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	217799	48.711	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	238897	48.725	ug/l	94
55) 1,1,2-Trichloroethane	11.012	97	149713	48.392	ug/l	99
56) Ethyl methacrylate	10.871	69	226879	50.892	ug/l	96
57) 1,3-Dichloropropane	11.159	76	254385	49.256	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	546594	296.664	ug/l	99
59) 2-Hexanone	11.194	43	640888	283.496	ug/l	98
60) Dibromochloromethane	11.359	129	179515	49.831	ug/l	99
61) 1,2-Dibromoethane	11.465	107	143894	49.226	ug/l	99
64) Tetrachloroethene	11.100	164	137245	44.839	ug/l	95
65) Chlorobenzene	11.888	112	403619	44.593	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	152348	46.829	ug/l	98
67) Ethyl Benzene	11.959	91	666583	47.015	ug/l	98
68) m/p-Xylenes	12.070	106	534279	99.206	ug/l	99
69) o-Xylene	12.394	106	252857	49.409	ug/l	98
70) Styrene	12.406	104	438422	46.395	ug/l	100
71) Bromoform	12.576	173	121387	50.214	ug/l #	97
73) Isopropylbenzene	12.694	105	614855	45.419	ug/l	98
74) N-amyl acetate	12.494	43	237651	49.782	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	210652	45.220	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	193123m	43.999	ug/l	
77) Bromobenzene	12.976	156	165508	45.253	ug/l	98
78) n-propylbenzene	13.035	91	718983	46.376	ug/l	100
79) 2-Chlorotoluene	13.123	91	464454	44.838	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	532554	48.294	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	79181	52.635	ug/l	87
82) 4-Chlorotoluene	13.217	91	468829	45.655	ug/l	100
83) tert-Butylbenzene	13.435	119	445404	48.032	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	537124	49.232	ug/l	99
85) sec-Butylbenzene	13.612	105	595269	45.434	ug/l	100
86) p-Isopropyltoluene	13.729	119	502099	42.428	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	297460	43.411	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	295472	42.072	ug/l	100
89) n-Butylbenzene	14.053	91	400109	43.012	ug/l	98
90) Hexachloroethane	14.329	117	100795	40.621	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	291198	44.193	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	37710	44.084	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	135659	43.206	ug/l	99
94) Hexachlorobutadiene	15.500	225	67633	35.444	ug/l	99
95) Naphthalene	15.641	128	413709	47.994	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	134918	42.802	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085876.D
Acq On : 26 Feb 2025 17:09
Operator : JC\MD
Sample : Q1421-05MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 23:07:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

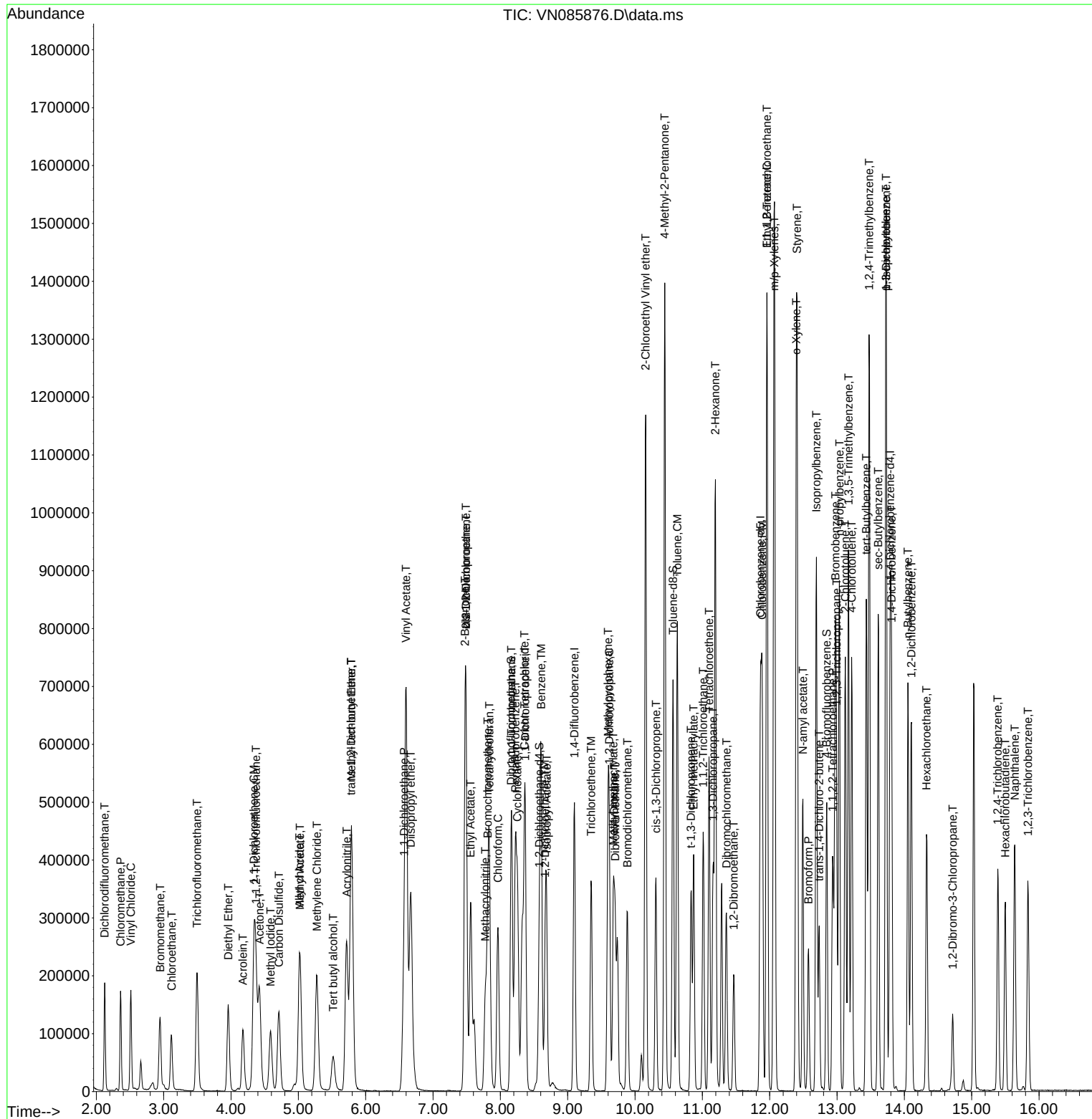
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

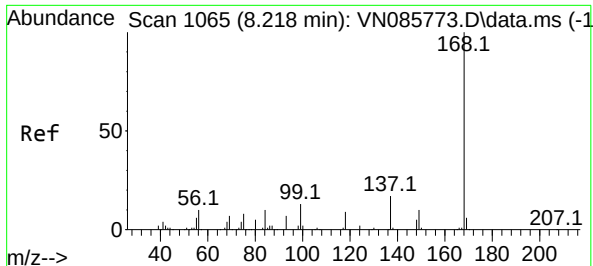
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations

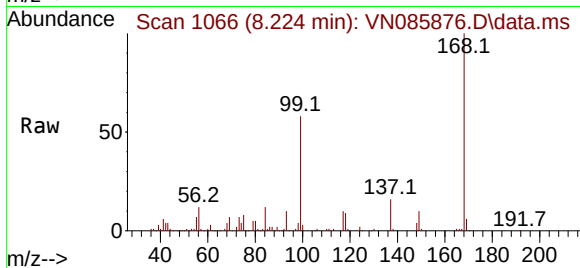
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

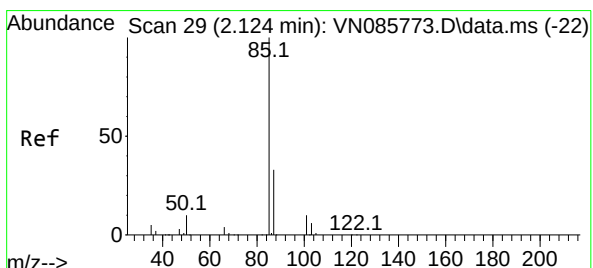
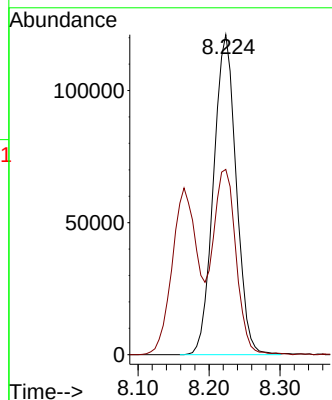
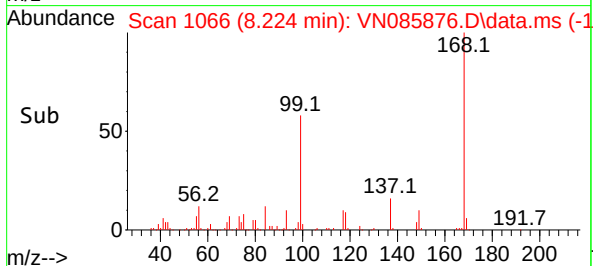
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 168 Resp: 26794
Ion Ratio Lower Upper
168 100
99 57.5 47.9 71.9

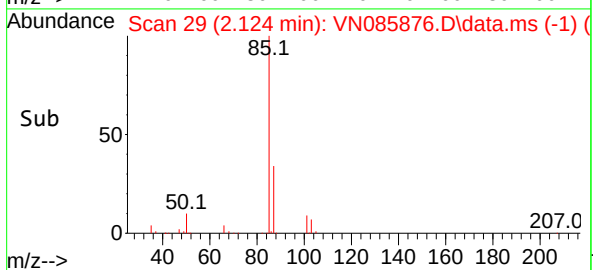
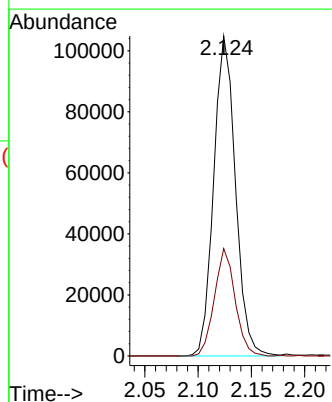
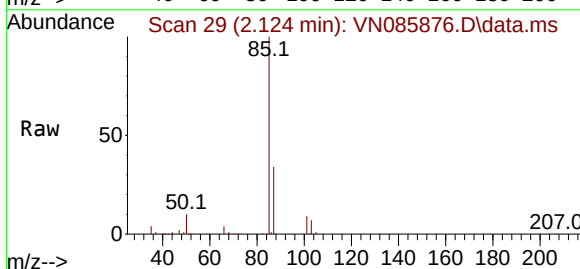
Manual Integrations
APPROVED

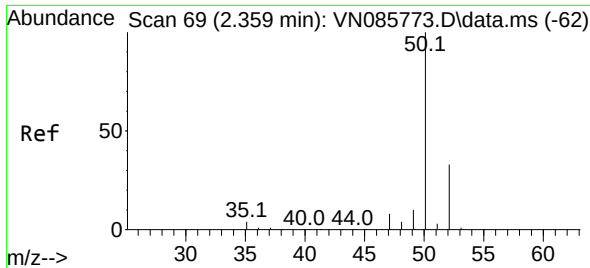
Reviewed By : John Carlone 02/27/2025
Supervised By : Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 40.779 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

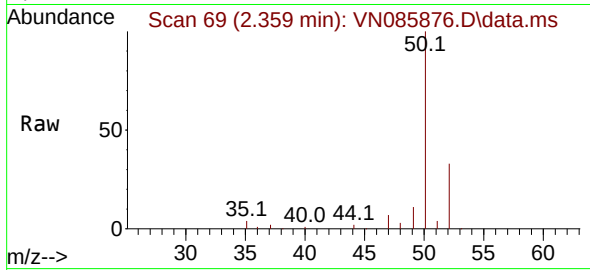
Tgt Ion: 85 Resp: 148624
Ion Ratio Lower Upper
85 100
87 33.6 16.4 49.2





#3
Chloromethane
Concen: 41.773 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

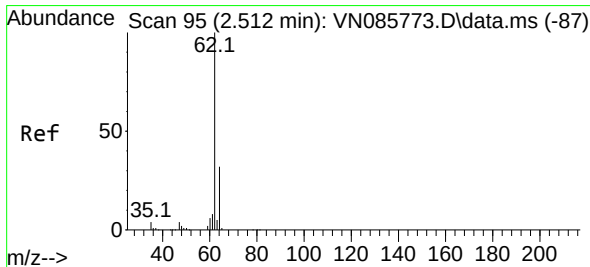
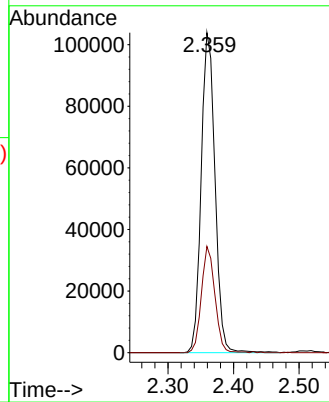
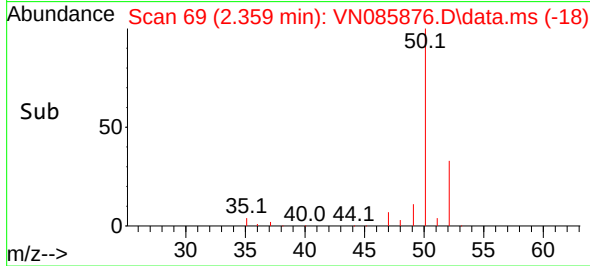
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 50 Resp: 152770
Ion Ratio Lower Upper
50 100
52 33.2 26.7 40.1

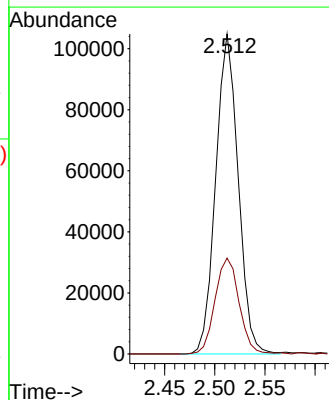
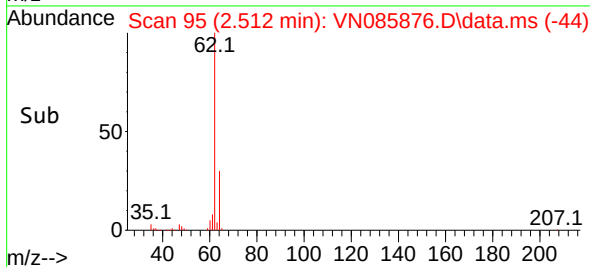
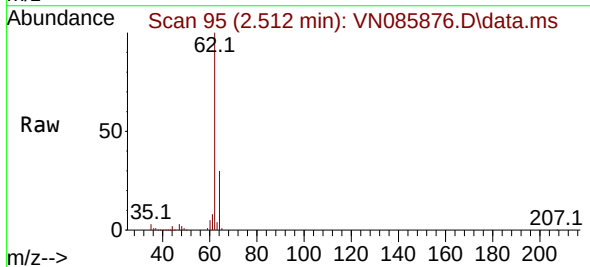
Manual Integrations
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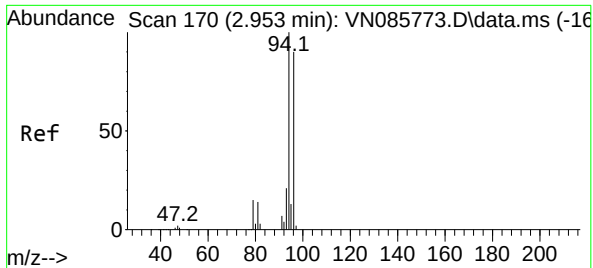
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Vinyl Chloride
Concen: 42.194 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

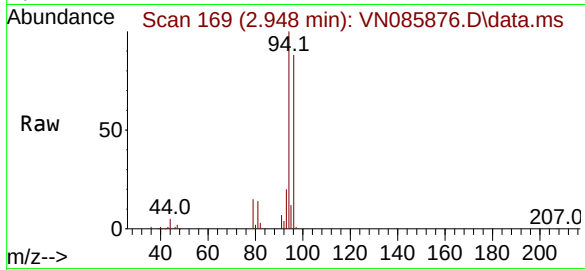
Tgt Ion: 62 Resp: 163386
Ion Ratio Lower Upper
62 100
64 29.9 25.9 38.9





#5
Bromomethane
Concen: 40.523 ug/l
RT: 2.948 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

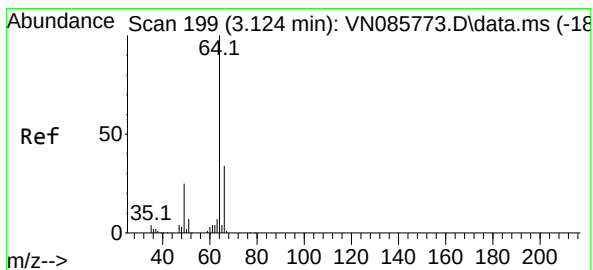
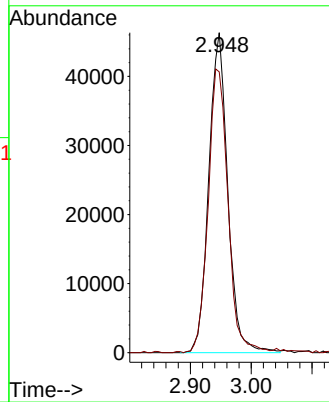
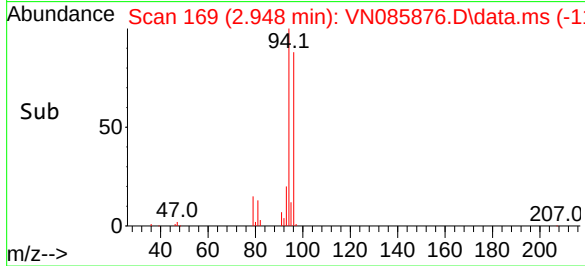
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 94 Resp: 100335
Ion Ratio Lower Upper
94 100
96 87.4 71.7 107.5

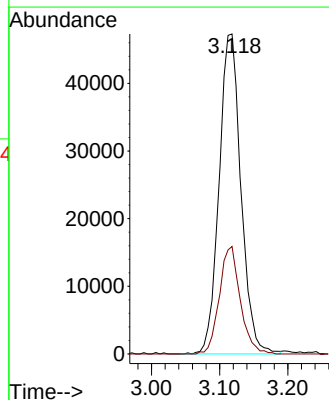
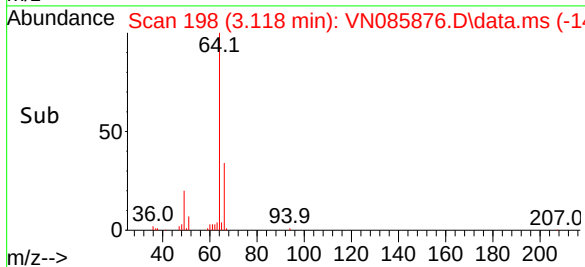
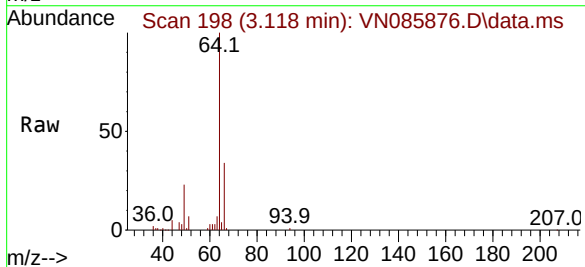
Manual Integrations
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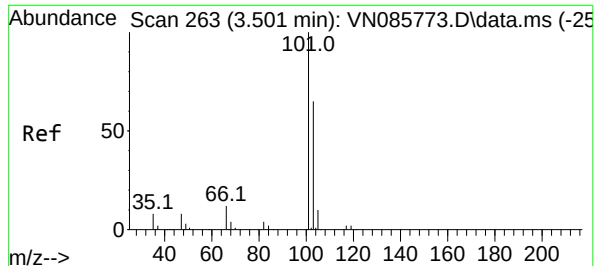
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#6
Chloroethane
Concen: 41.181 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

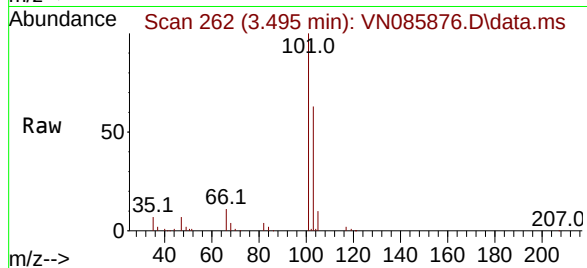
Tgt Ion: 64 Resp: 105625
Ion Ratio Lower Upper
64 100
66 33.6 27.0 40.6





#7
Trichlorofluoromethane
Concen: 41.208 ug/l
RT: 3.495 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

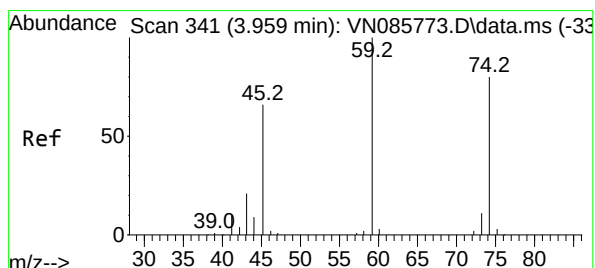
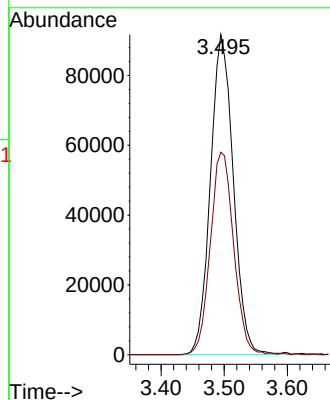
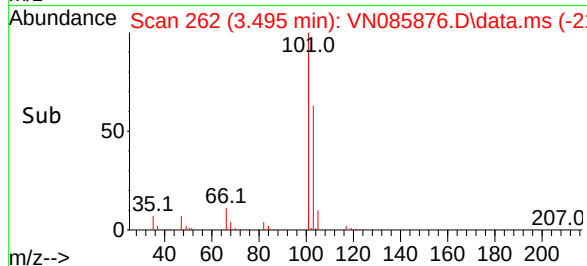
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:101 Resp: 23102
Ion Ratio Lower Upper
101 100
103 63.2 52.2 78.4

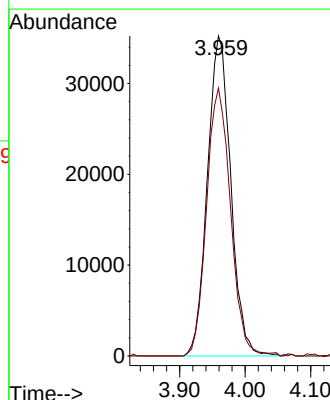
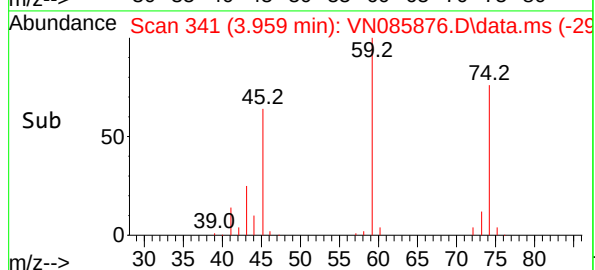
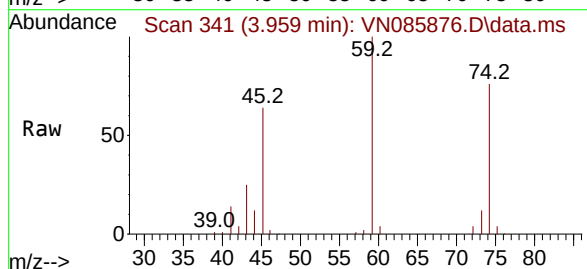
Manual Integrations
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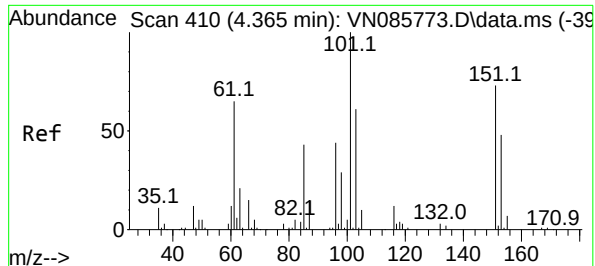
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#8
Diethyl Ether
Concen: 48.112 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 74 Resp: 87274
Ion Ratio Lower Upper
74 100
45 85.6 42.5 127.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 41.962 ug/l

RT: 4.371 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:101 Resp: 13598

Ion Ratio Lower Upper

101 100

85 42.4 35.7 53.5

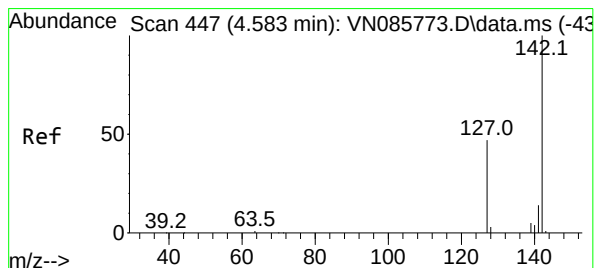
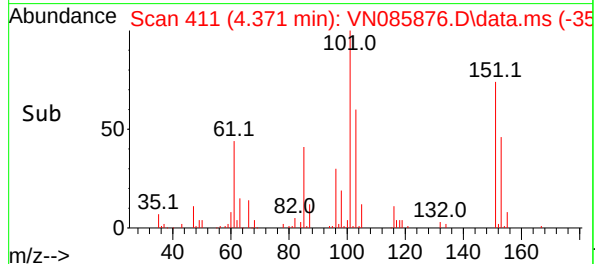
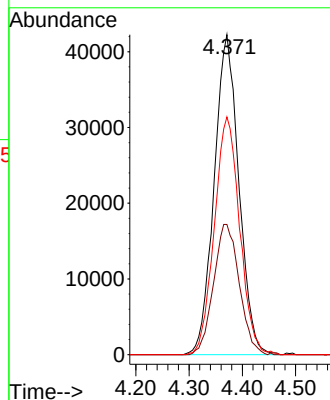
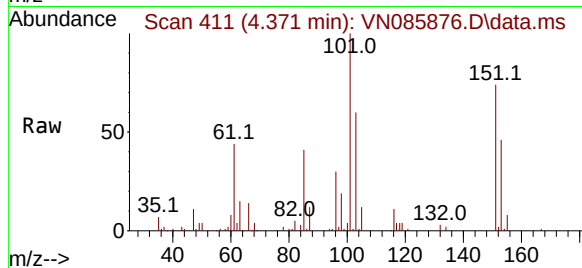
151 76.2 61.4 92.2

Manual Integrations

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Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#10

Methyl Iodide

Concen: 46.344 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

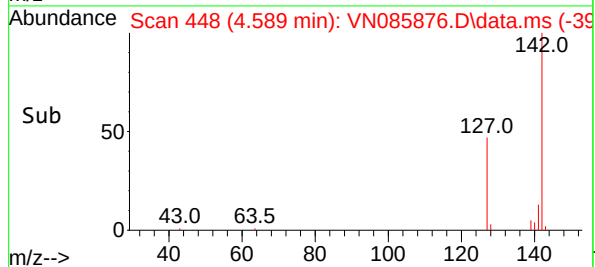
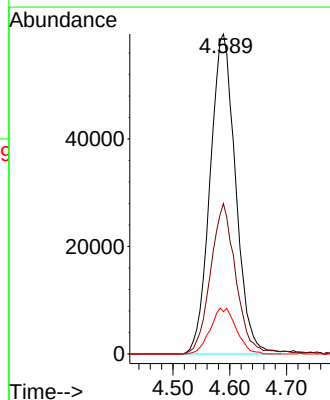
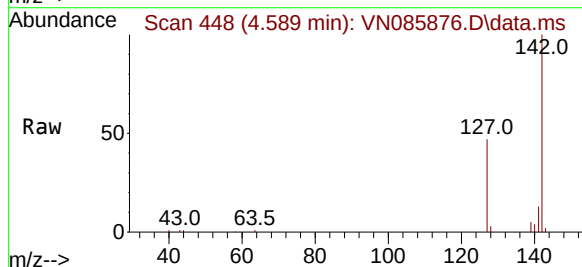
Tgt Ion:142 Resp: 185129

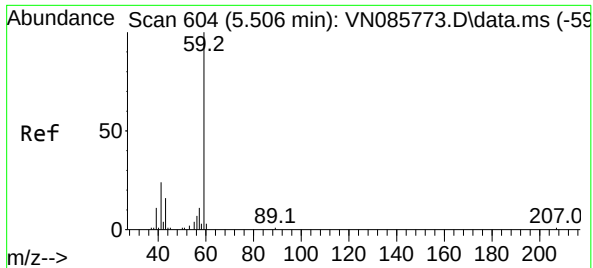
Ion Ratio Lower Upper

142 100

127 47.0 37.6 56.4

141 13.3 11.4 17.2





#11

Tert butyl alcohol

Concen: 247.265 ug/l

RT: 5.518 min Scan# 604

Delta R.T. 0.012 min

Lab File: VN085876.D

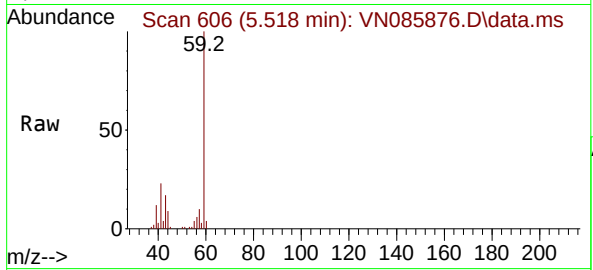
Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion: 59 Resp: 10564

Ion Ratio Lower Upper

59 100

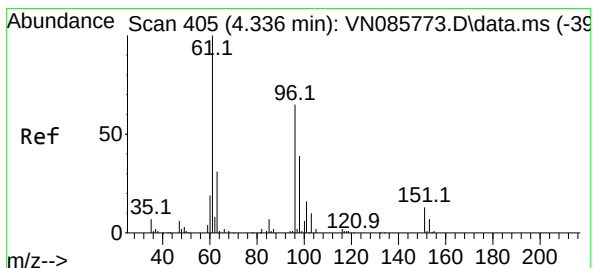
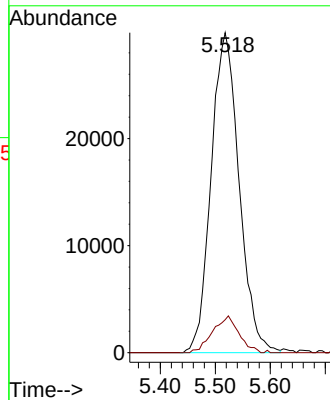
57 10.7 8.3 12.5

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Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#12

1,1-Dichloroethene

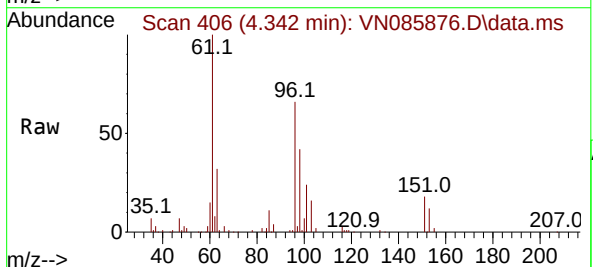
Concen: 44.640 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09



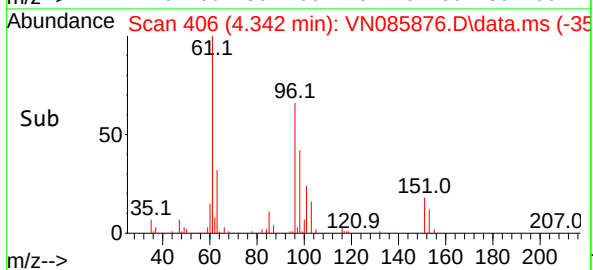
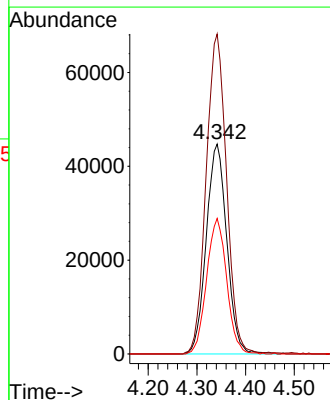
Tgt Ion: 96 Resp: 131169

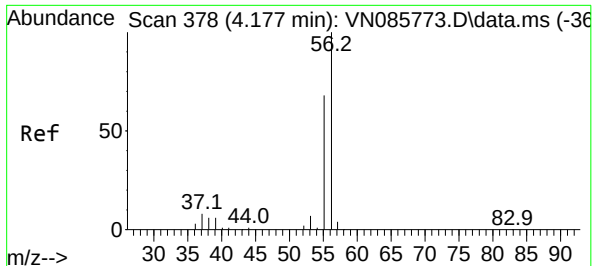
Ion Ratio Lower Upper

96 100

61 152.4 123.3 184.9

98 64.6 48.6 72.8





#13

Acrolein

Concen: 220.503 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 56 Resp: 139709

Ion Ratio Lower Upper

56 100

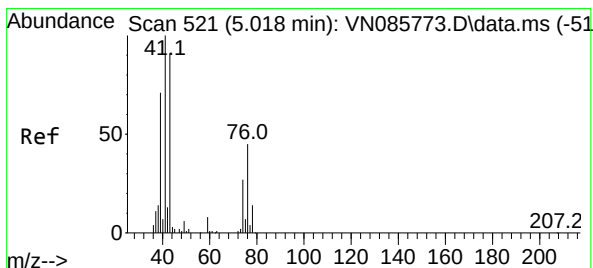
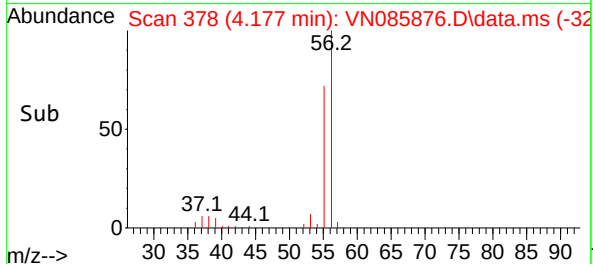
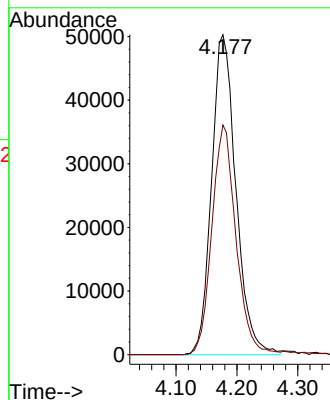
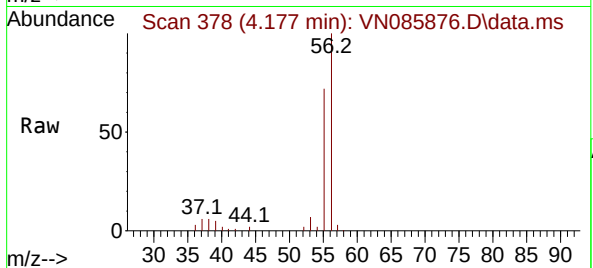
55 71.0 55.3 82.9

Manual Integrations

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Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#14

Allyl chloride

Concen: 44.665 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

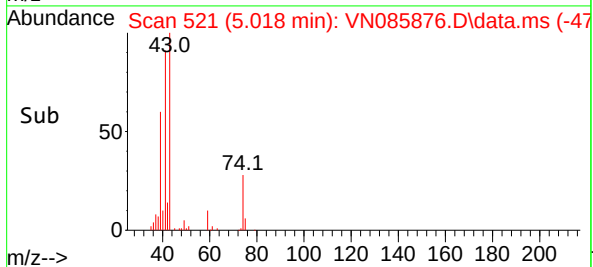
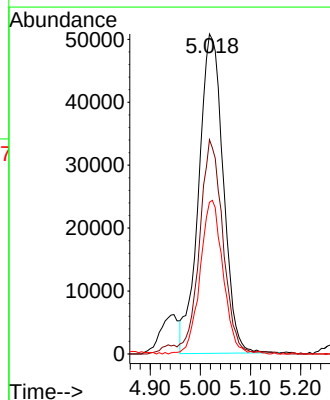
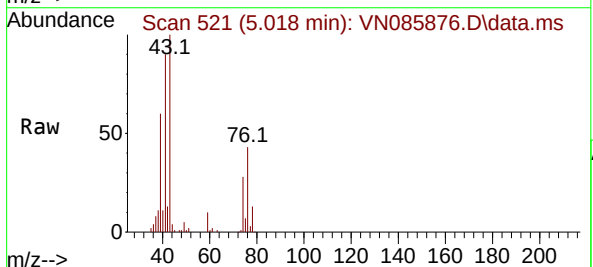
Tgt Ion: 41 Resp: 172310

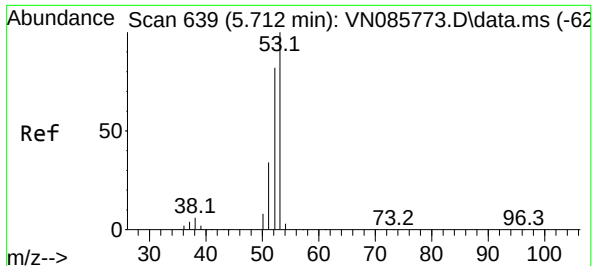
Ion Ratio Lower Upper

41 100

39 64.3 57.4 86.2

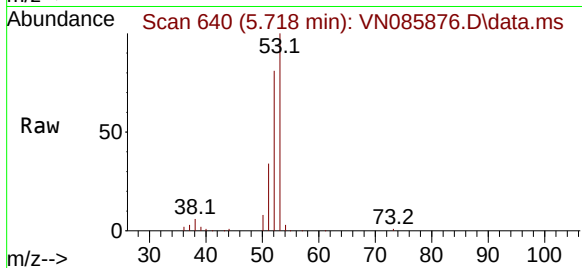
76 44.9 36.2 54.2





#15
Acrylonitrile
Concen: 256.127 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

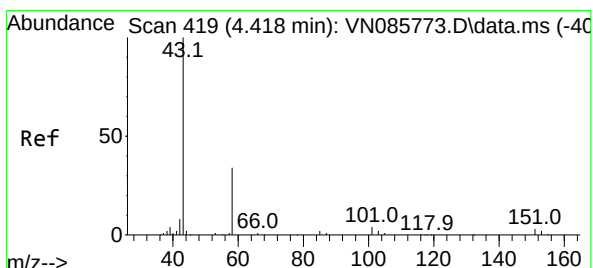
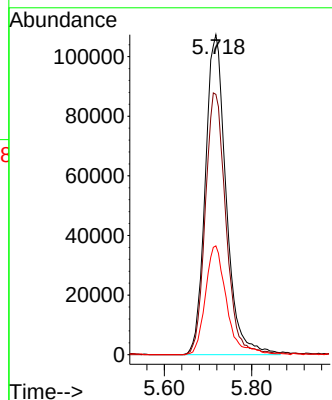
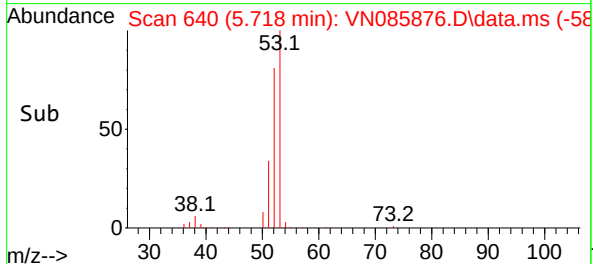
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



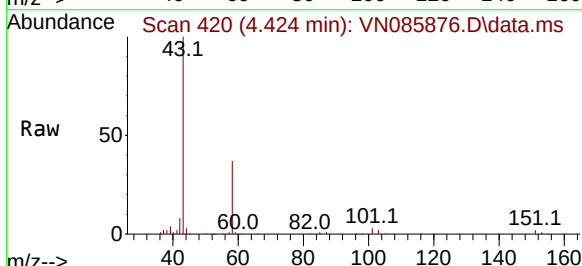
Tgt Ion: 53 Resp: 35575
Ion Ratio Lower Upper
53 100
52 80.9 65.8 98.6
51 34.8 28.6 42.8

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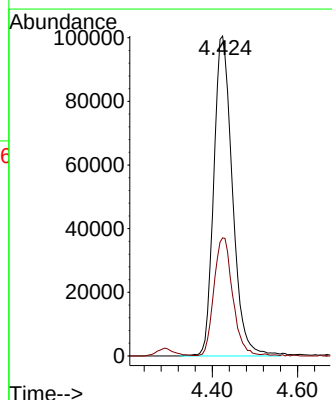
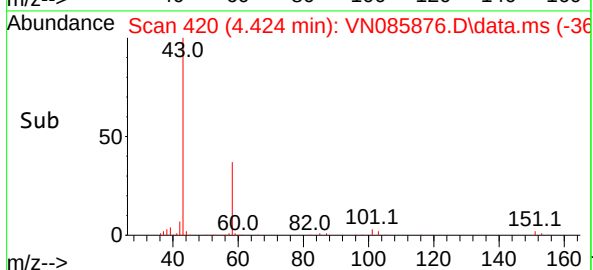
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

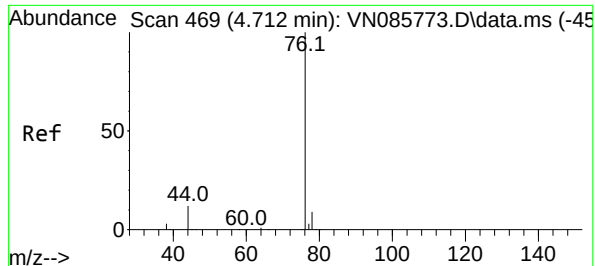


#16
Acetone
Concen: 278.395 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09



Tgt Ion: 43 Resp: 306006
Ion Ratio Lower Upper
43 100
58 36.7 27.5 41.3





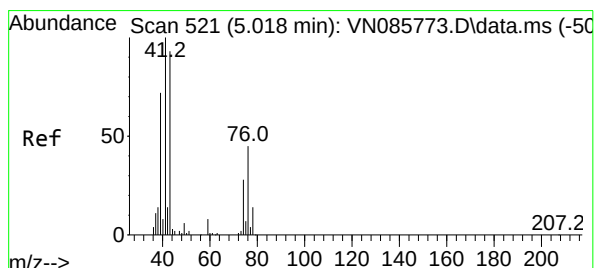
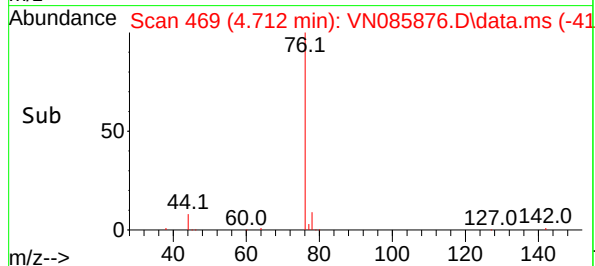
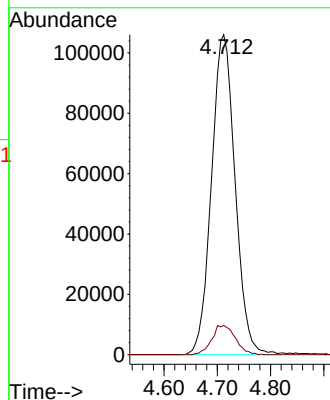
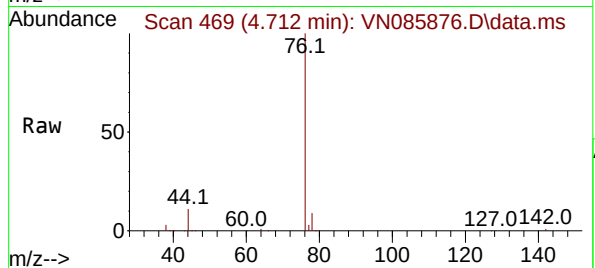
#17
Carbon Disulfide
Concen: 37.512 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS

Tgt Ion: 76 Resp: 326672
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.0

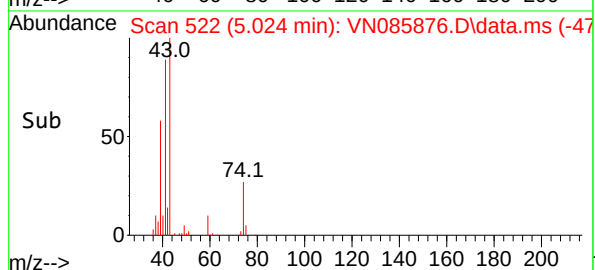
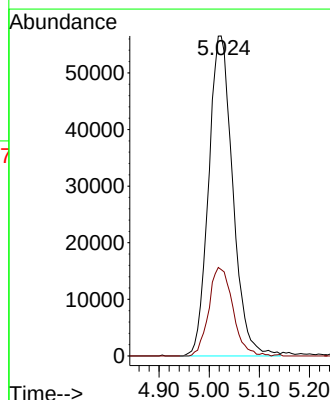
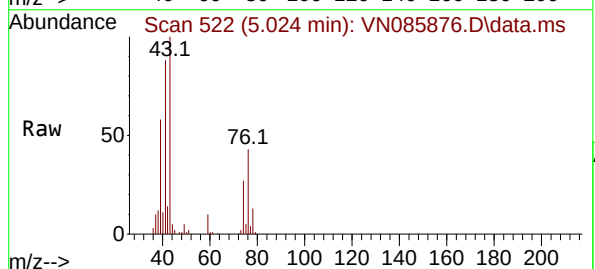
Manual Integrations
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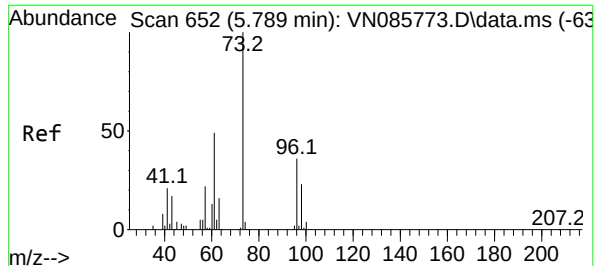
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#18
Methyl Acetate
Concen: 50.040 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 43 Resp: 189184
Ion Ratio Lower Upper
43 100
74 27.3 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 50.913 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 73 Resp: 444552

Ion Ratio Lower Upper

73 100

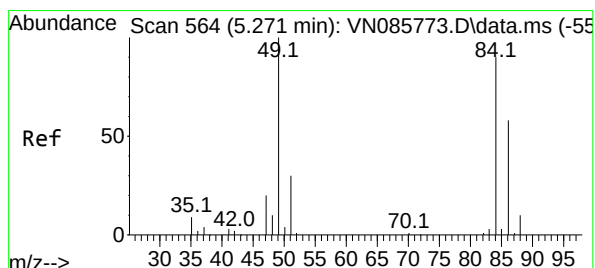
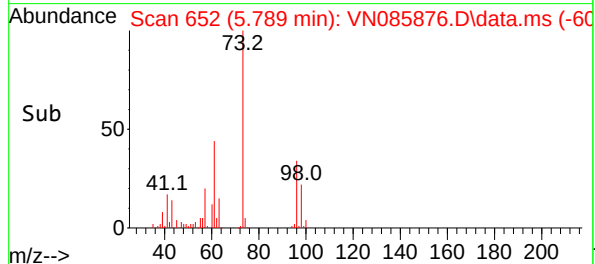
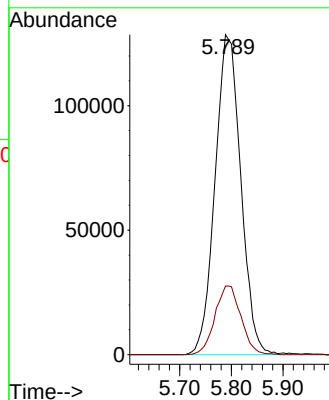
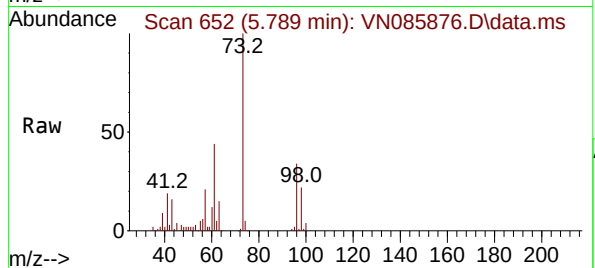
57 21.5 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#20

Methylene Chloride

Concen: 47.925 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Tgt Ion: 84 Resp: 169406

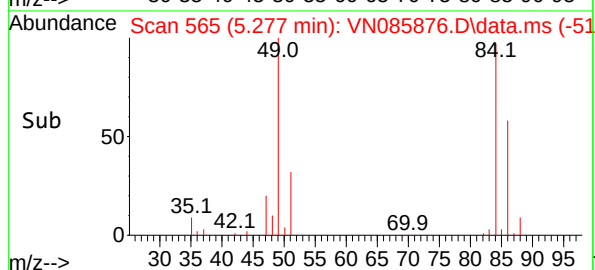
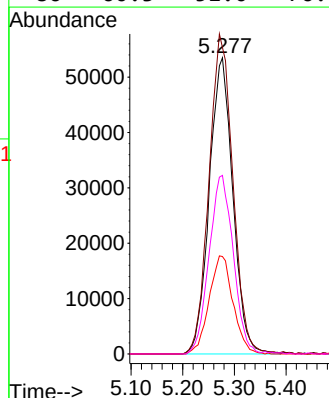
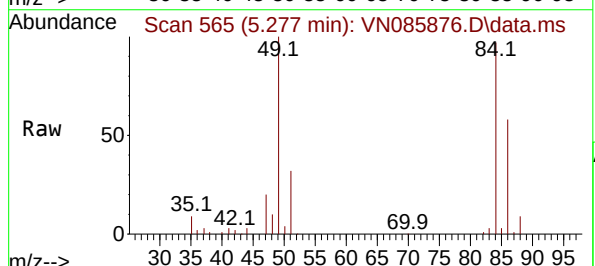
Ion Ratio Lower Upper

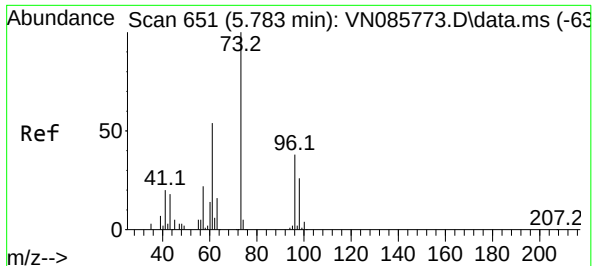
84 100

49 103.5 88.4 132.6

51 32.9 26.6 40.0

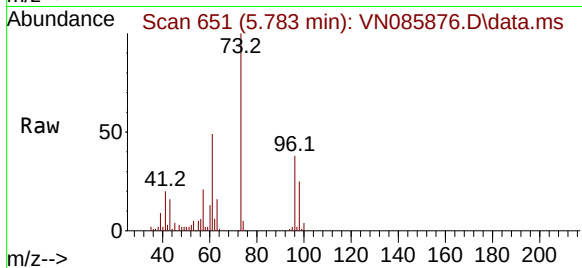
86 60.3 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 42.865 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

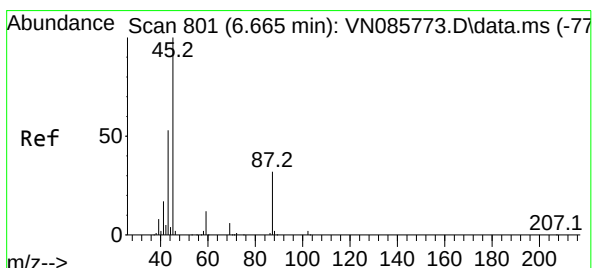
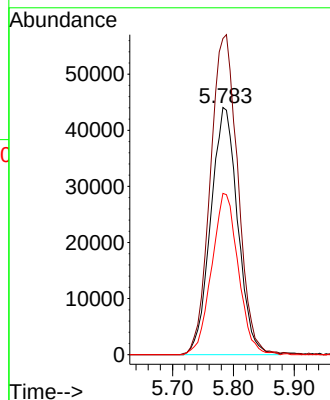
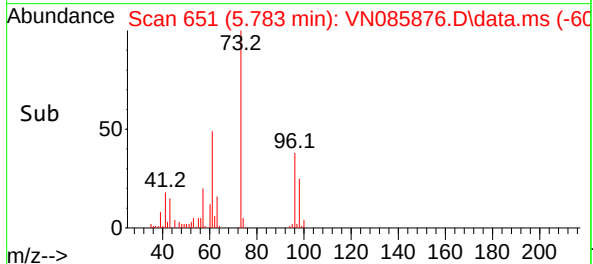
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 96 Resp: 135624
Ion Ratio Lower Upper
96 100
61 127.9 112.6 168.8
98 65.2 53.3 79.9

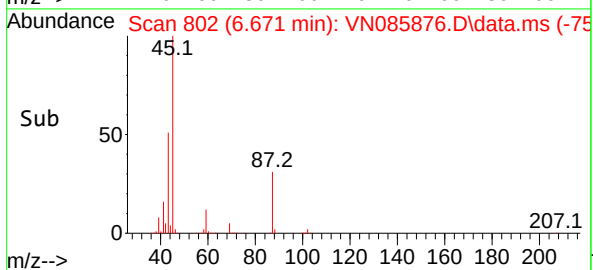
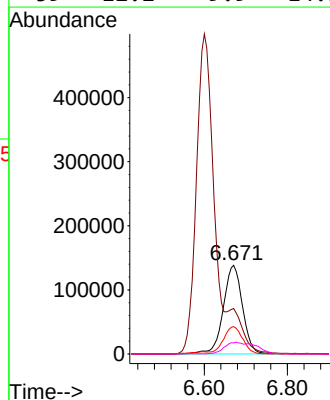
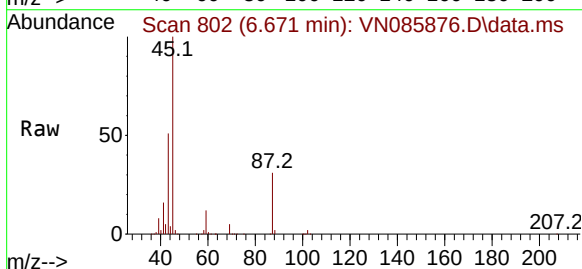
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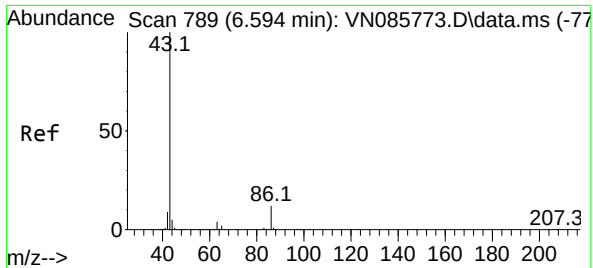
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#22
Diisopropyl ether
Concen: 50.700 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 45 Resp: 441967
Ion Ratio Lower Upper
45 100
43 50.5 42.6 64.0
87 30.6 25.8 38.8
59 12.2 9.9 14.9





#23

Vinyl Acetate

Concen: 239.509 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 43 Resp: 142956

Ion Ratio Lower Upper

43 100

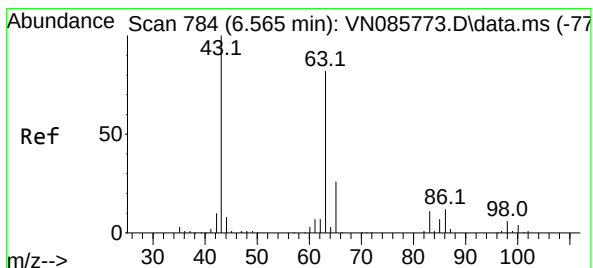
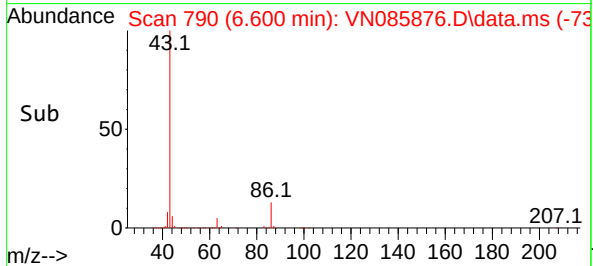
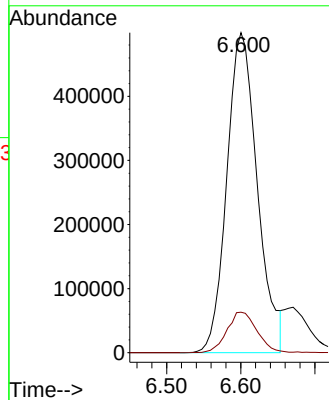
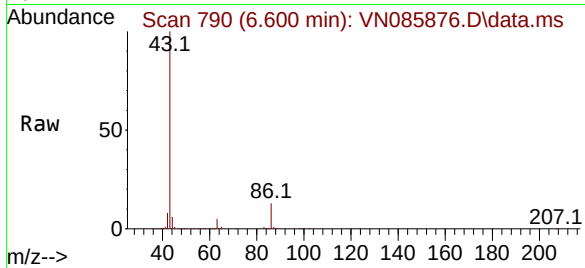
86 12.6 9.8 14.8

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Reviewed By :John Carlone 02/27/2025

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#24

1,1-Dichloroethane

Concen: 45.746 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

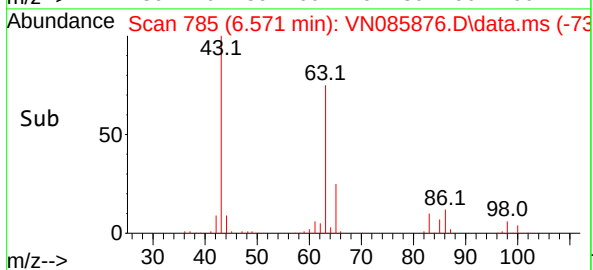
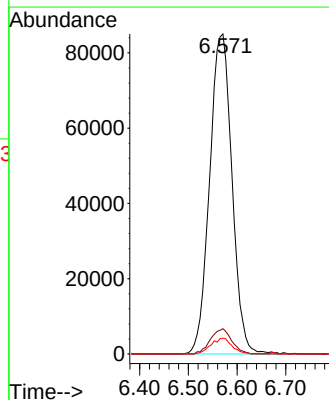
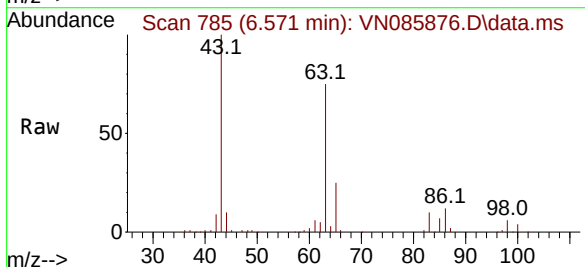
Tgt Ion: 63 Resp: 271089

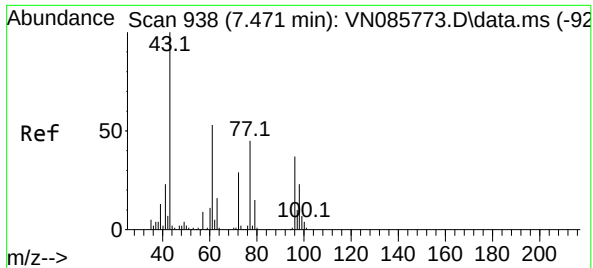
Ion Ratio Lower Upper

63 100

98 7.9 3.5 10.4

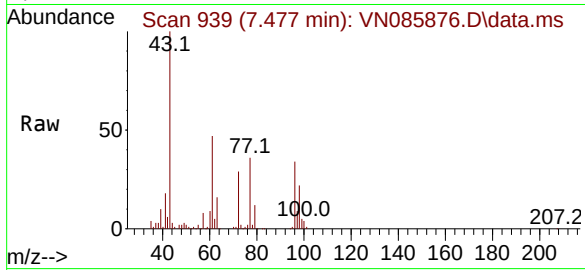
100 5.0 2.4 7.2





#25
2-Butanone
Concen: 261.848 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

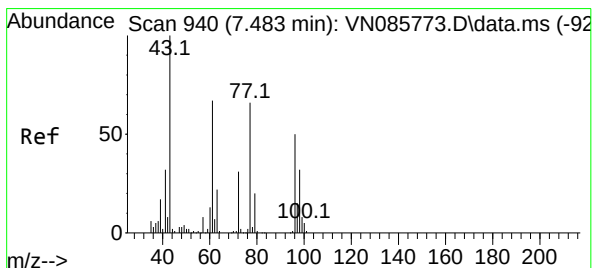
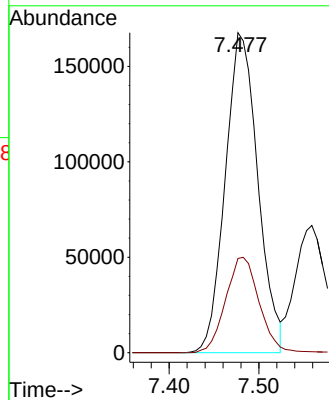
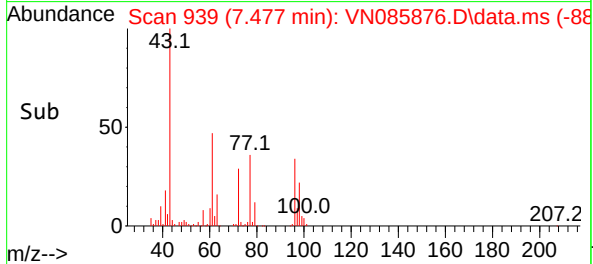
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 43 Resp: 42343
Ion Ratio Lower Upper
43 100
72 29.4 23.6 35.4

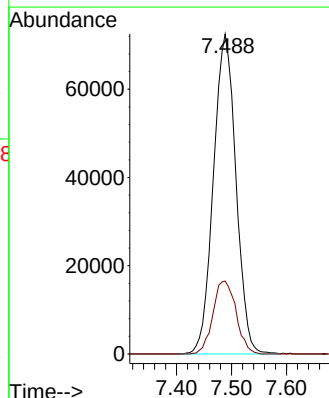
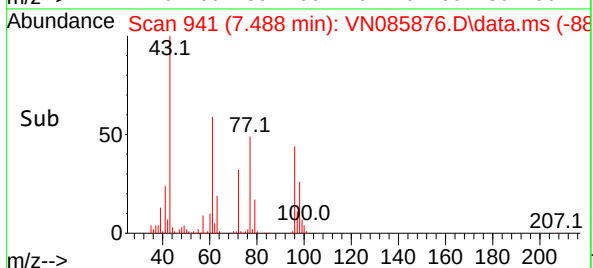
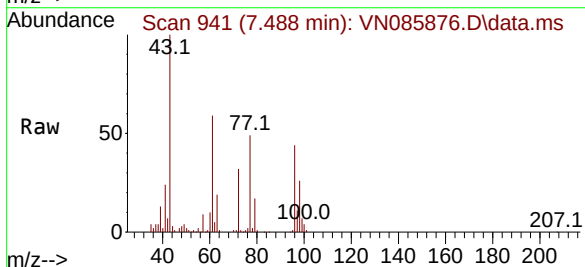
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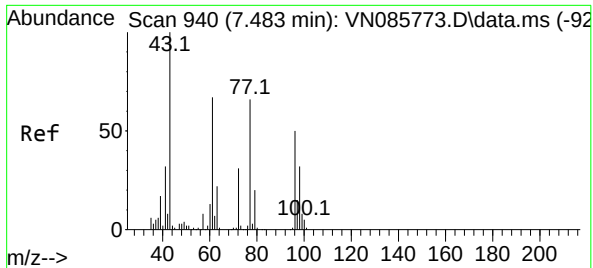
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#26
2,2-Dichloropropane
Concen: 39.133 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

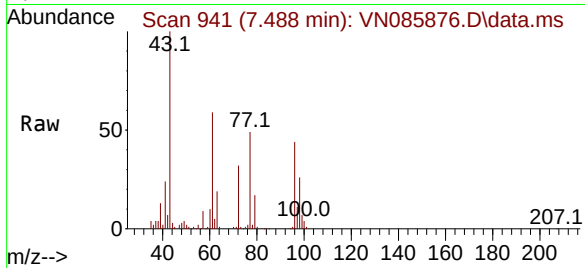
Tgt Ion: 77 Resp: 206206
Ion Ratio Lower Upper
77 100
97 23.4 11.3 33.8





#27
cis-1,2-Dichloroethene
Concen: 46.273 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

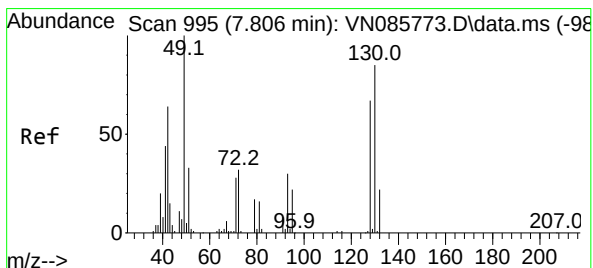
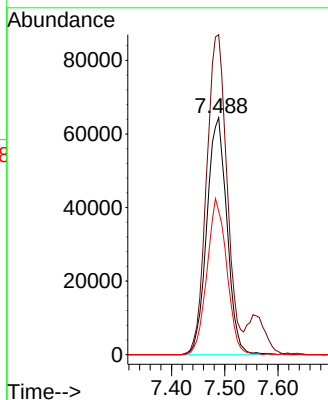
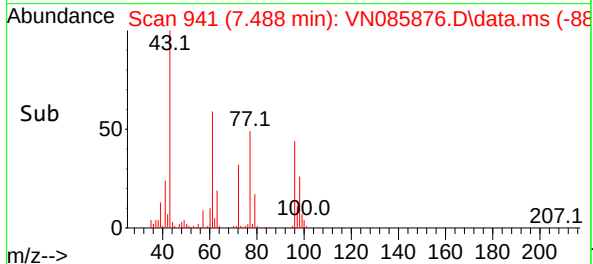
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 96 Resp: 16975
Ion Ratio Lower Upper
96 100
61 137.3 0.0 280.6
98 64.5 0.0 128.6

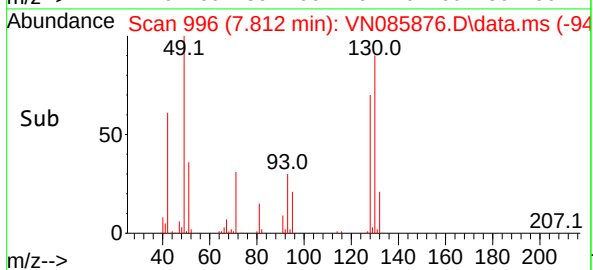
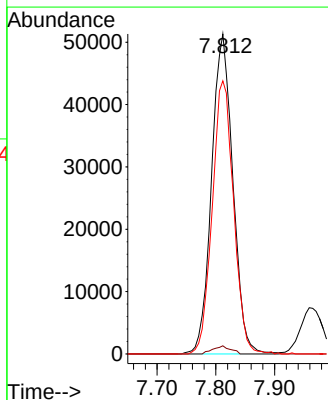
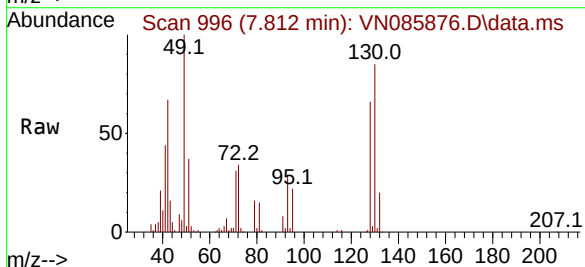
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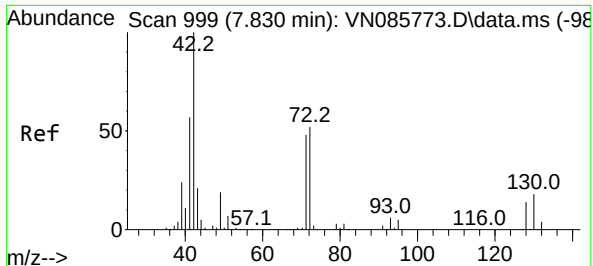
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#28
Bromochloromethane
Concen: 53.035 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 49 Resp: 129172
Ion Ratio Lower Upper
49 100
129 2.1 0.0 3.8
130 85.5 68.0 102.0





#29

Tetrahydrofuran

Concen: 264.888 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 42 Resp: 276604

Ion Ratio Lower Upper

42 100

72 51.9 40.0 60.0

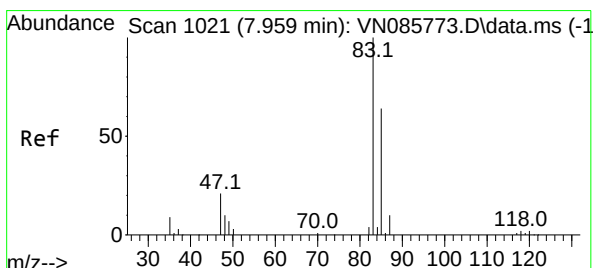
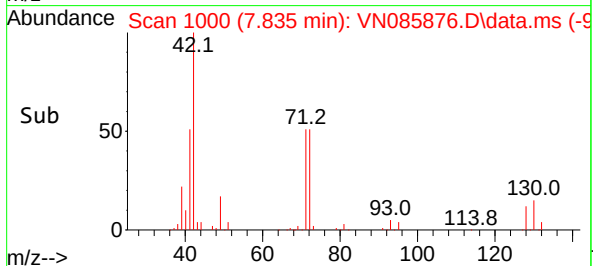
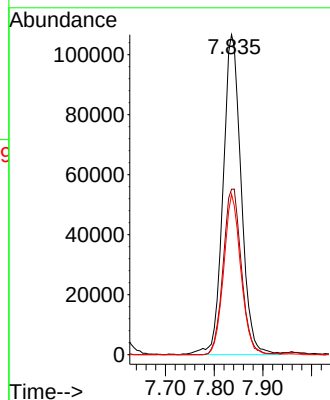
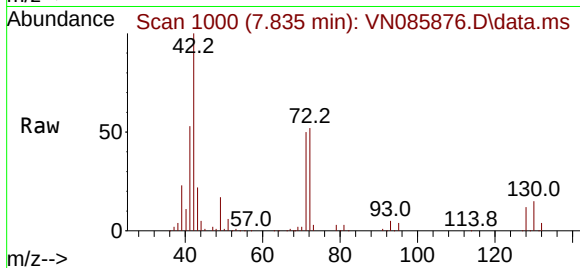
71 47.4 37.0 55.4

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Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#30

Chloroform

Concen: 45.868 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085876.D

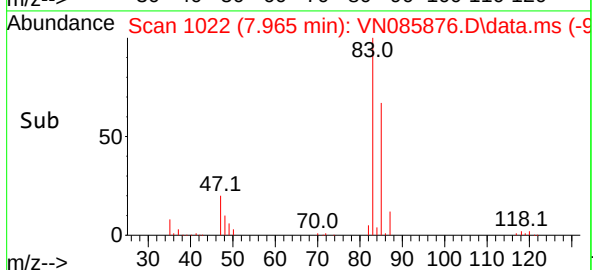
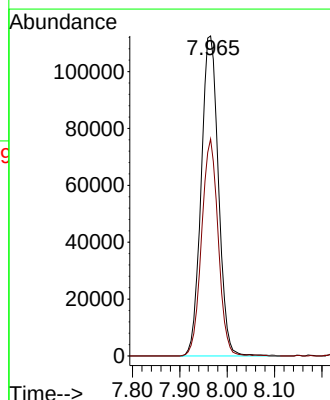
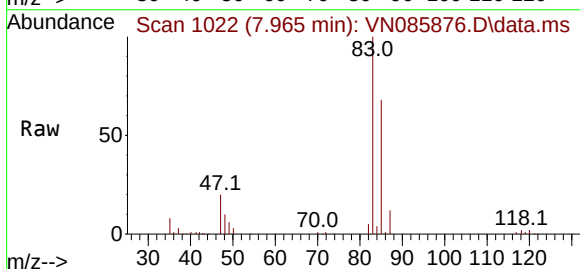
Acq: 26 Feb 2025 17:09

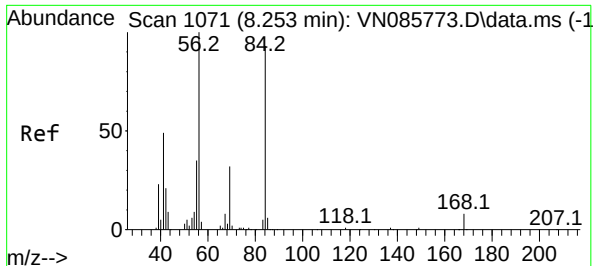
Tgt Ion: 83 Resp: 284050

Ion Ratio Lower Upper

83 100

85 67.8 50.9 76.3





#31

Cyclohexane

Concen: 38.295 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

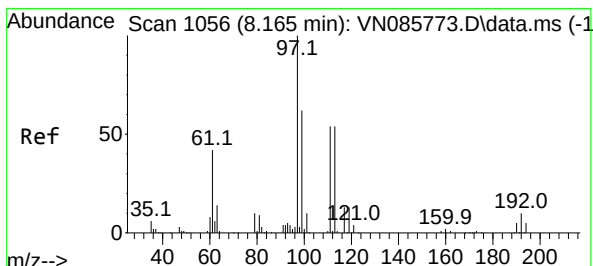
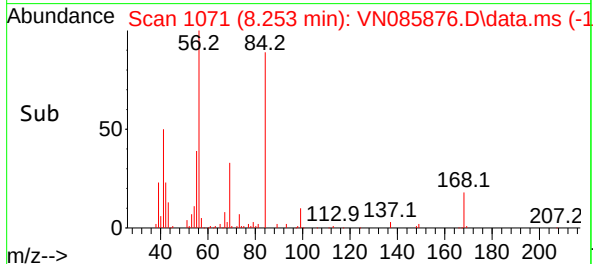
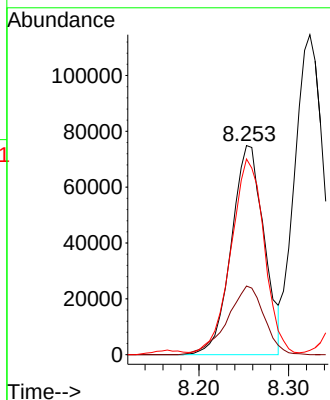
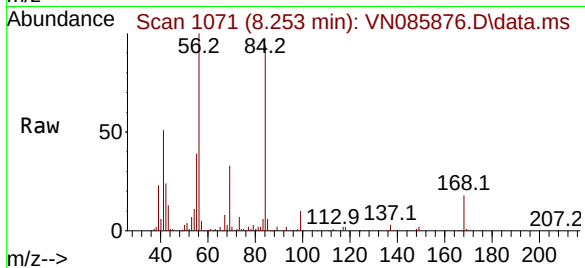
ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:	56	Resp:	19000
Ion Ratio	Lower	Upper	
56	100		
69	32.8	25.8	38.6
84	91.8	74.5	111.7

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#32

1,1,1-Trichloroethane

Concen: 43.205 ug/l

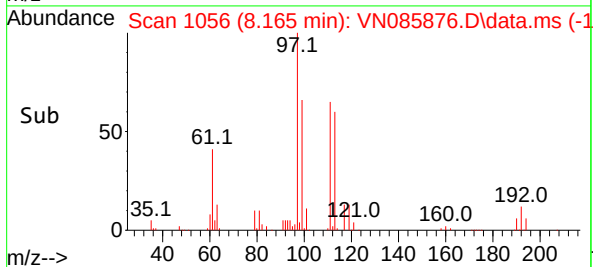
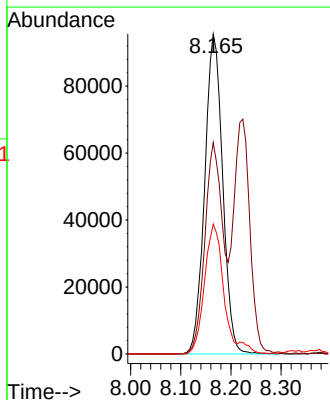
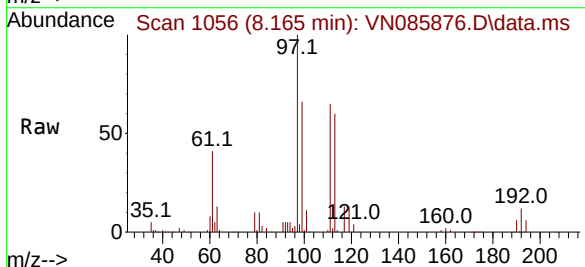
RT: 8.165 min Scan# 1056

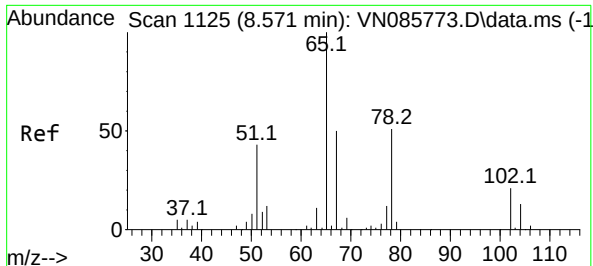
Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Tgt Ion:	97	Resp:	237977
Ion Ratio	Lower	Upper	
97	100		
99	66.2	50.4	75.6
61	41.7	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 46.392 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 65 Resp: 161150

Ion Ratio Lower Upper

65 100

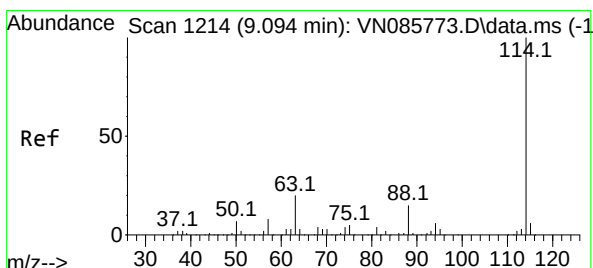
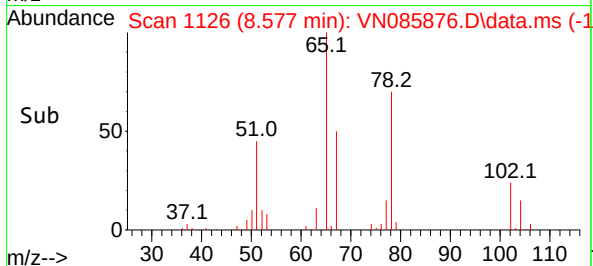
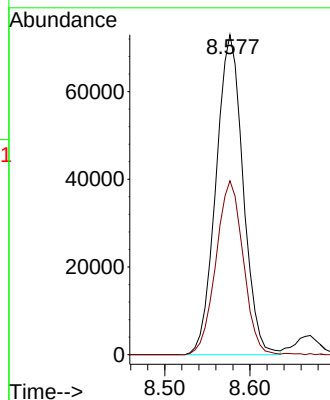
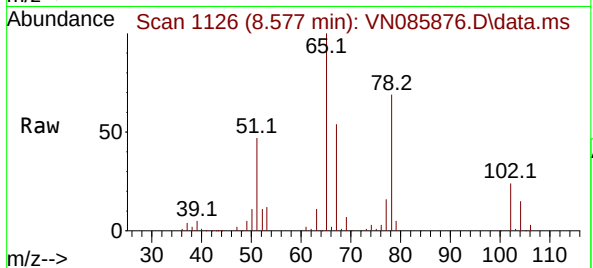
67 54.6 0.0 106.2

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

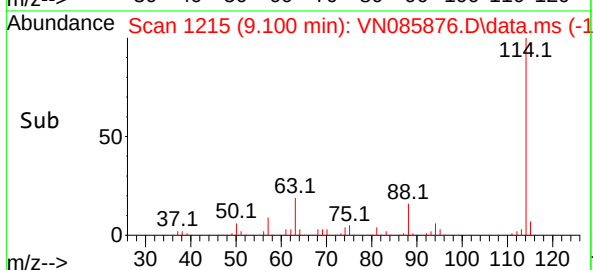
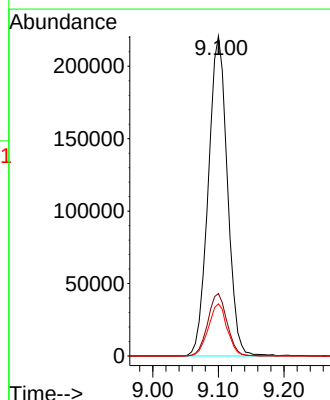
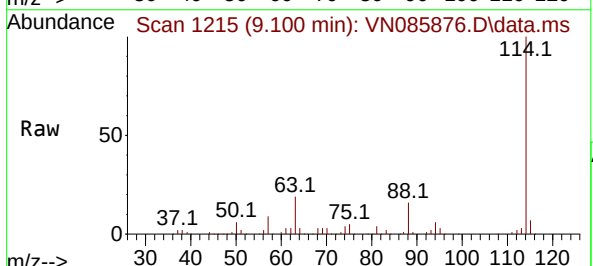
Tgt Ion:114 Resp: 447222

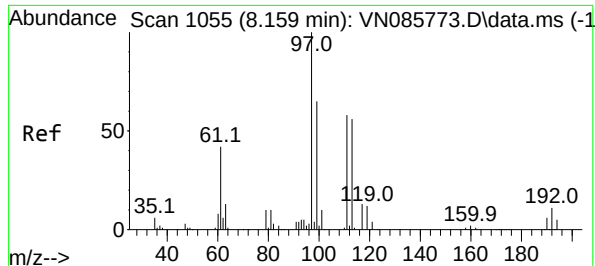
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.2

88 16.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.522 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085876.D

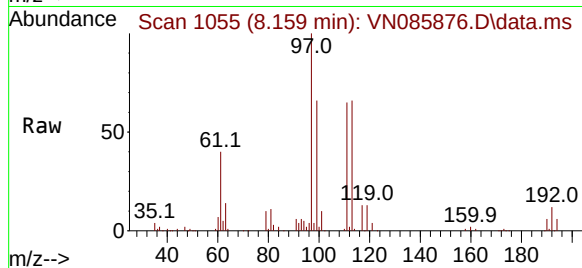
Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

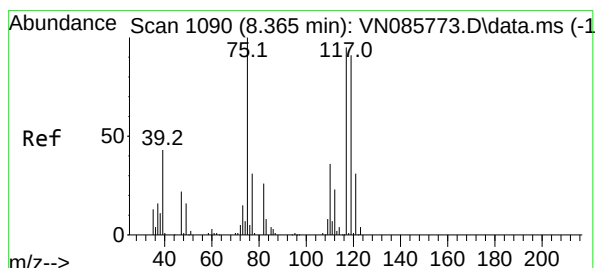
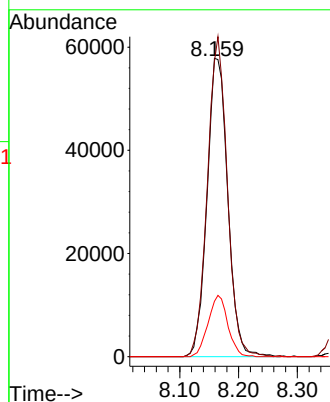
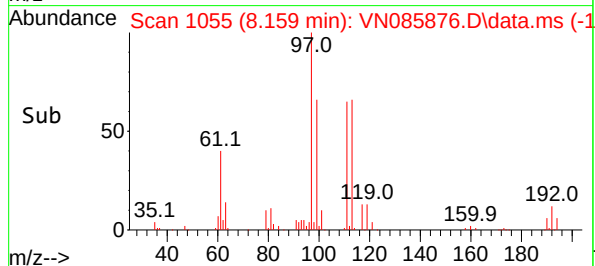


Tgt Ion:	113	Resp:	141990
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	19.5	14.7	22.1

Manual Integrations
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Supervised By :Mahesh Dadoda 02/27/2025



#36

1,1-Dichloropropene

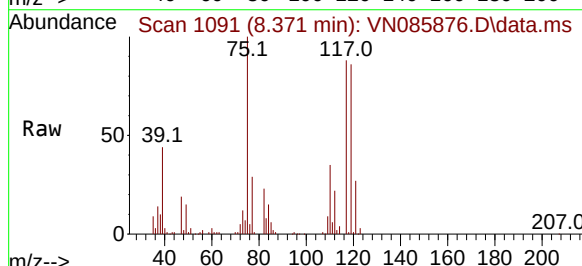
Concen: 42.763 ug/l

RT: 8.371 min Scan# 1091

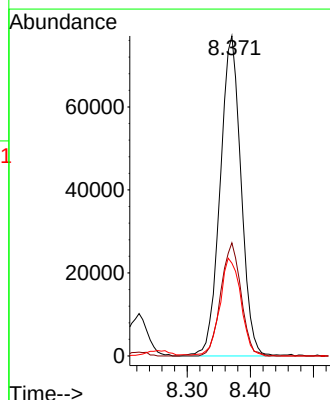
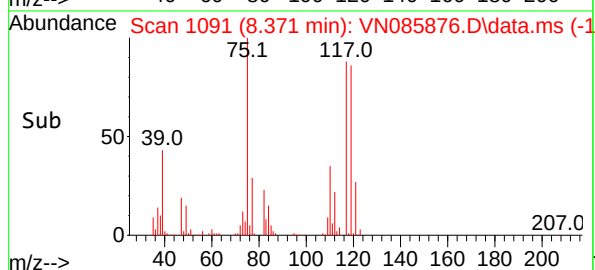
Delta R.T. 0.006 min

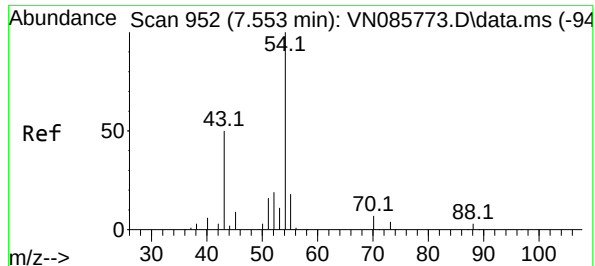
Lab File: VN085876.D

Acq: 26 Feb 2025 17:09



Tgt Ion:	75	Resp:	177111
Ion	Ratio	Lower	Upper
75	100		
110	34.2	17.3	52.0
77	30.9	24.6	37.0





#37

Ethyl Acetate

Concen: 49.311 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 43 Resp: 16806

Ion Ratio Lower Upper

43 100

61 14.4 12.2 18.2

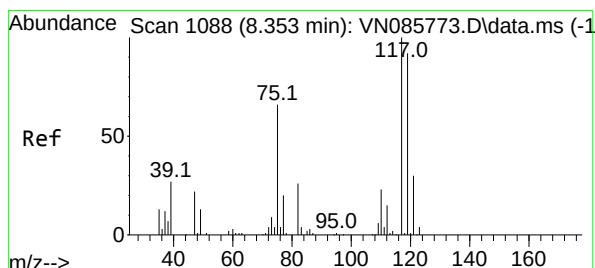
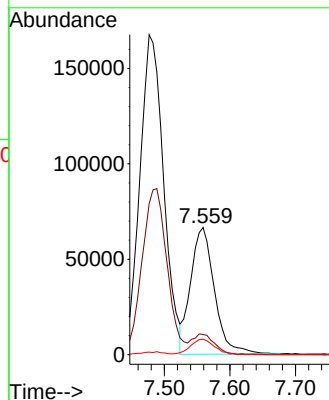
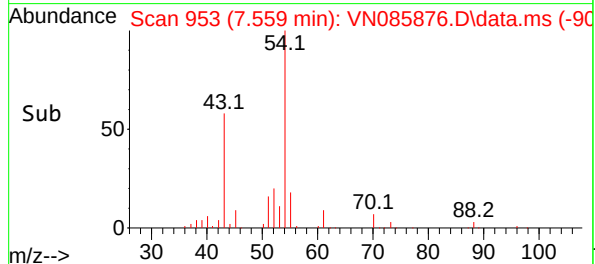
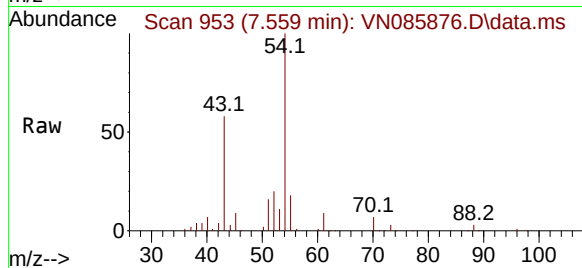
70 12.3 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#38

Carbon Tetrachloride

Concen: 42.682 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

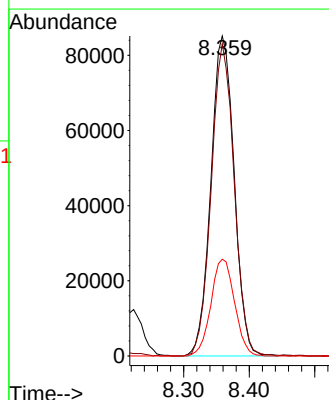
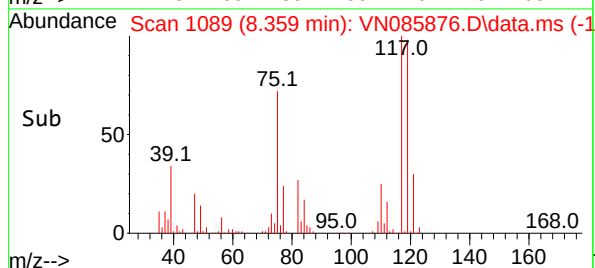
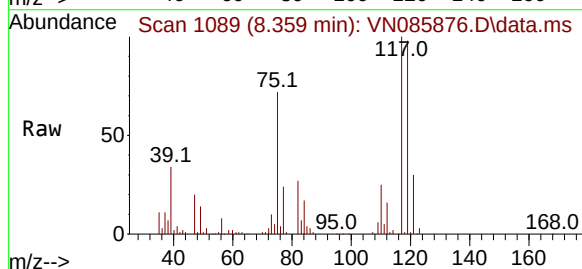
Tgt Ion:117 Resp: 210041

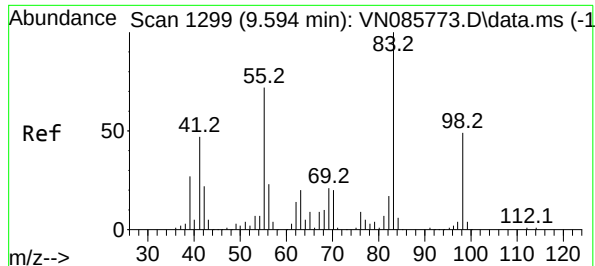
Ion Ratio Lower Upper

117 100

119 97.5 73.8 110.6

121 30.3 24.3 36.5





#39

Methylcyclohexane

Concen: 41.843 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 83 Resp: 17024

Ion Ratio Lower Upper

83 100

55 73.2 57.5 86.3

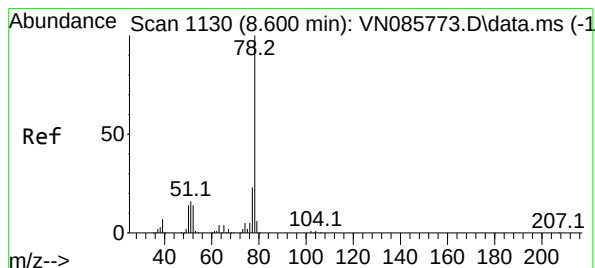
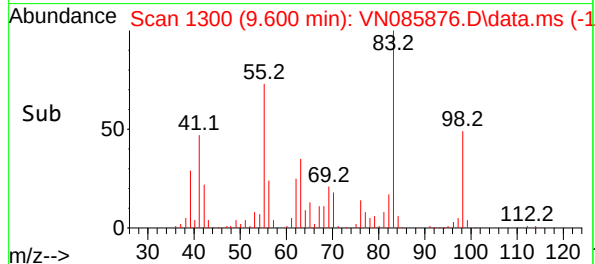
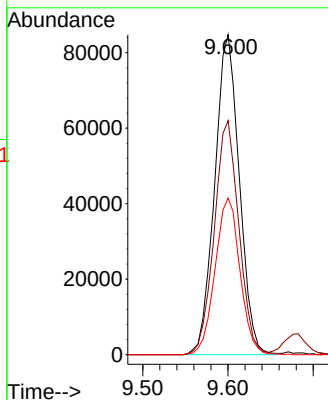
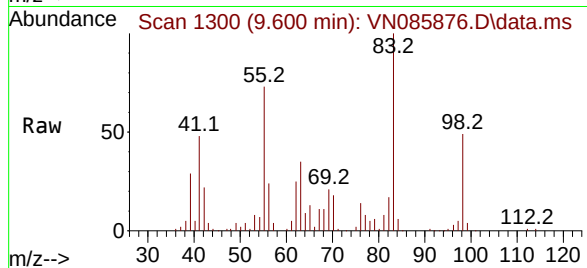
98 48.9 39.2 58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#40

Benzene

Concen: 45.649 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085876.D

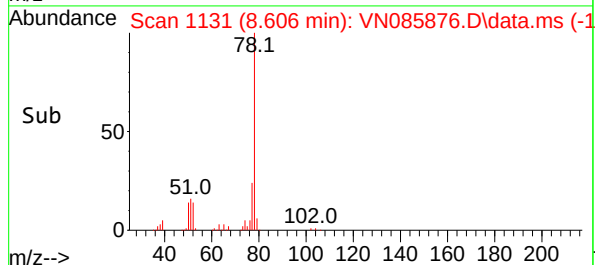
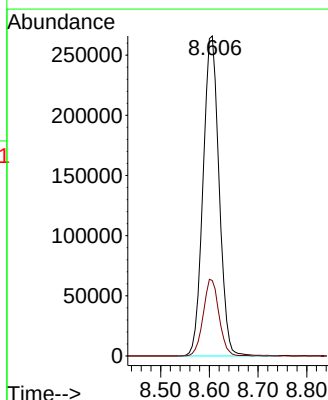
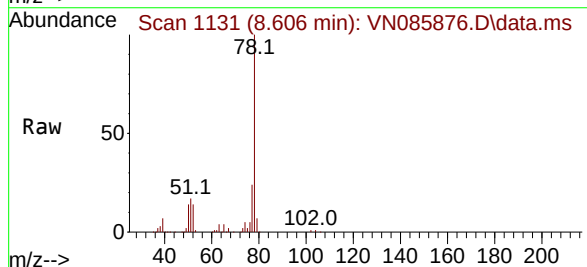
Acq: 26 Feb 2025 17:09

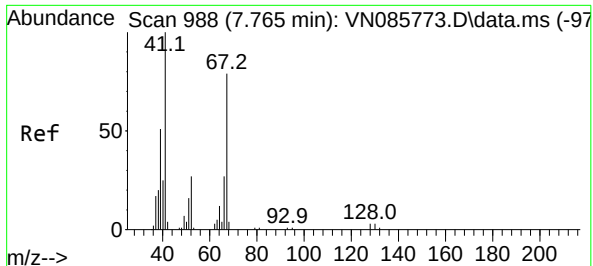
Tgt Ion: 78 Resp: 605953

Ion Ratio Lower Upper

78 100

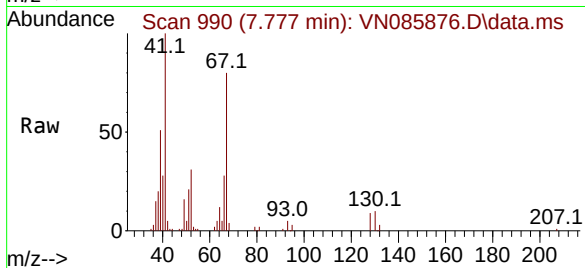
77 23.6 18.3 27.5





#41
Methacrylonitrile
Concen: 48.940 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

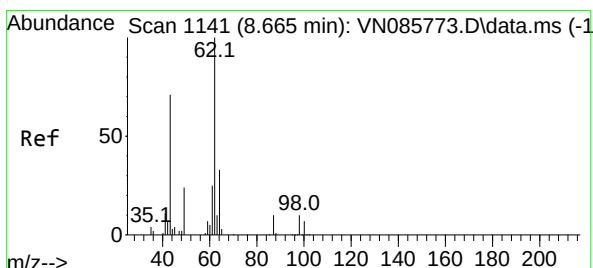
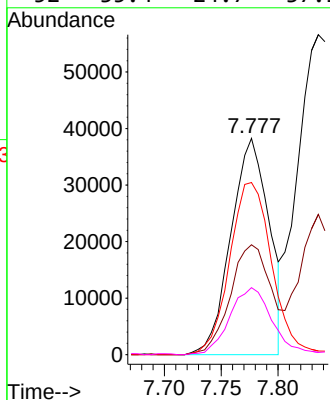
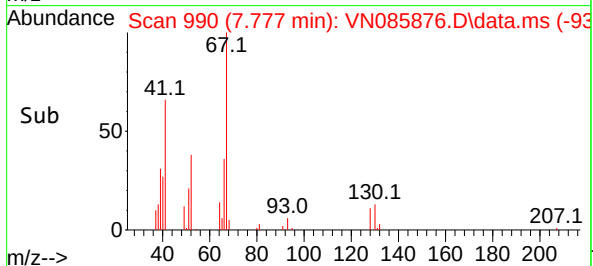
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 41 Resp: 89170
Ion Ratio Lower Upper
41 100
39 56.1 42.0 63.0
67 88.8 64.2 96.4
52 35.4 24.7 37.1

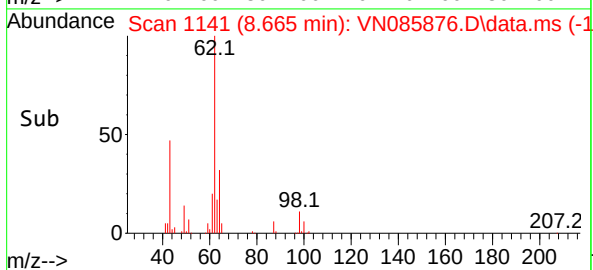
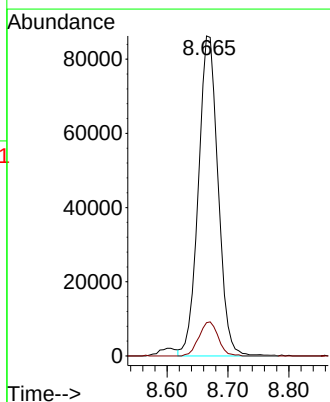
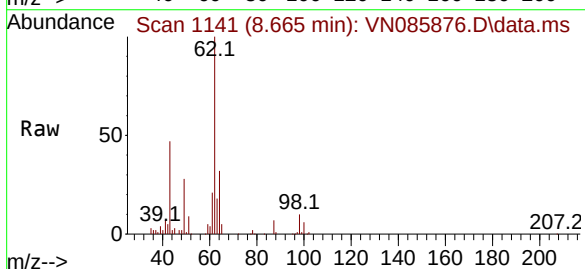
Manual Integrations
APPROVED

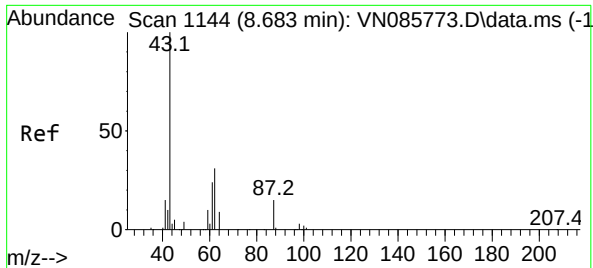
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#42
1,2-Dichloroethane
Concen: 44.801 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 62 Resp: 193711
Ion Ratio Lower Upper
62 100
98 10.5 0.0 19.6





#43

Isopropyl Acetate

Concen: 46.605 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

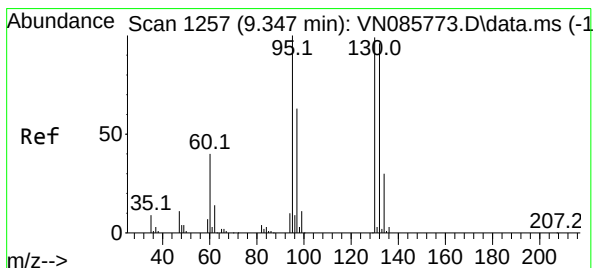
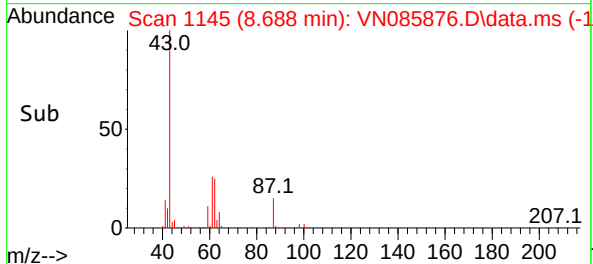
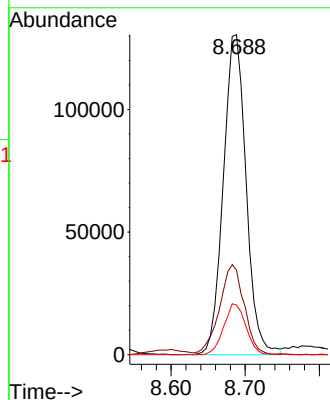
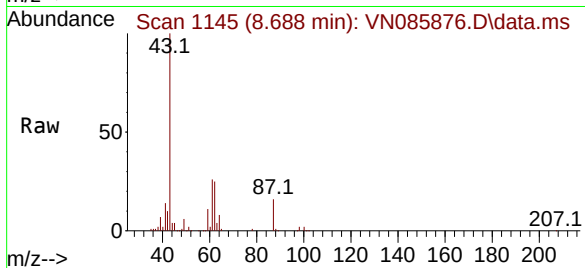
P001-CLAY-CF01-01MS

Tgt Ion: 43	Resp: 278990
Ion Ratio	Lower Upper
43	100
61	30.1 22.6 34.0
87	15.5 11.8 17.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#44

Trichloroethene

Concen: 41.993 ug/l

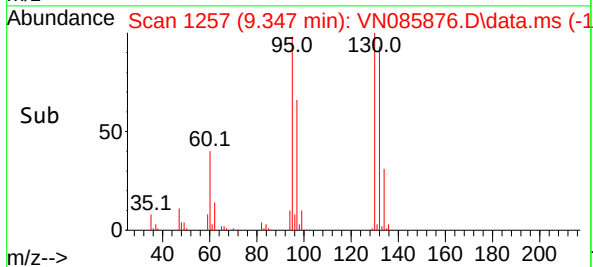
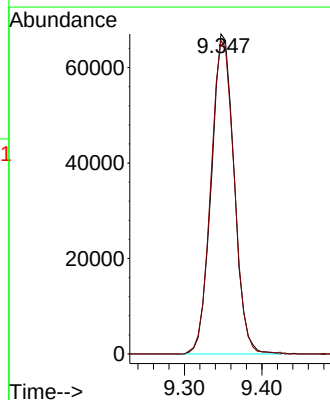
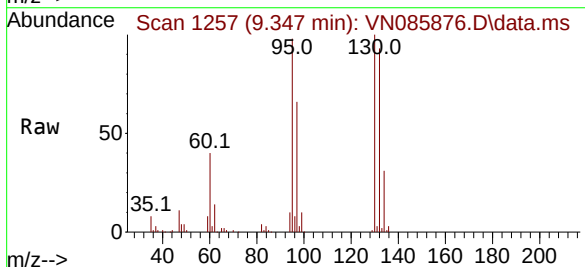
RT: 9.347 min Scan# 1257

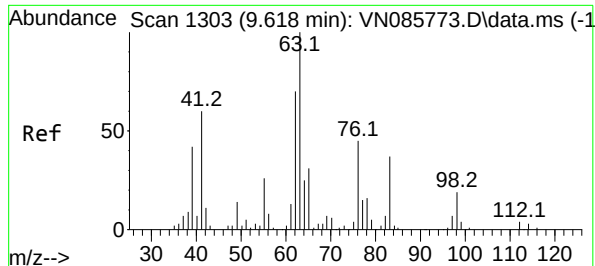
Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Tgt Ion:130	Resp: 136865
Ion Ratio	Lower Upper
130	100
95	97.9 0.0 202.6





#45

1,2-Dichloropropane

Concen: 47.822 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 63 Resp: 153228

Ion Ratio Lower Upper

63 100

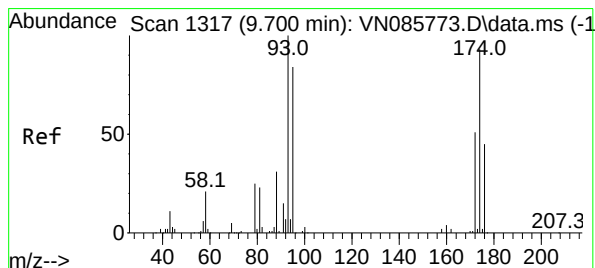
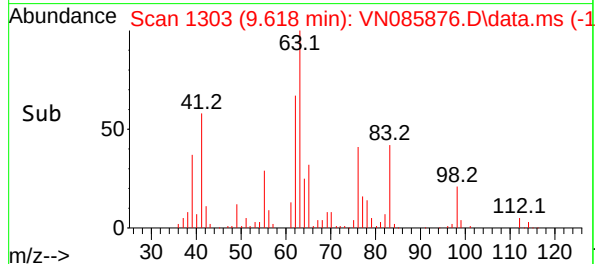
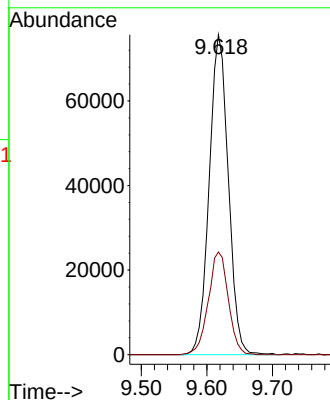
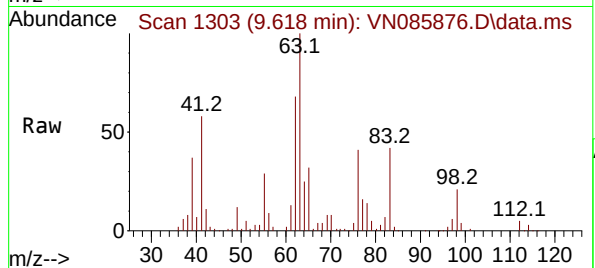
65 32.1 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#46

Dibromomethane

Concen: 46.163 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

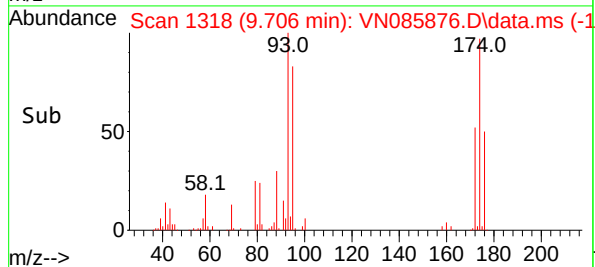
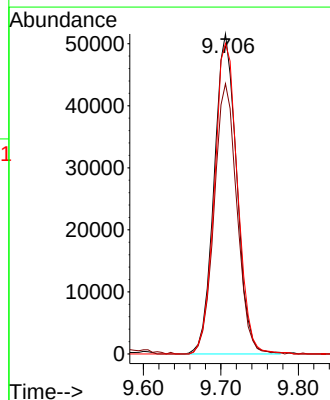
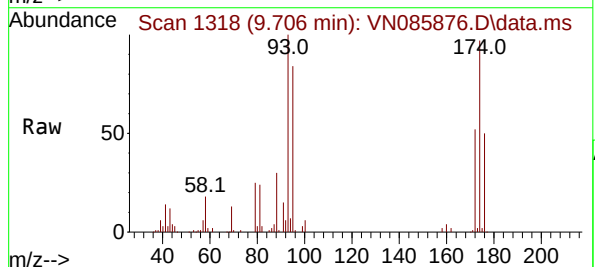
Tgt Ion: 93 Resp: 104333

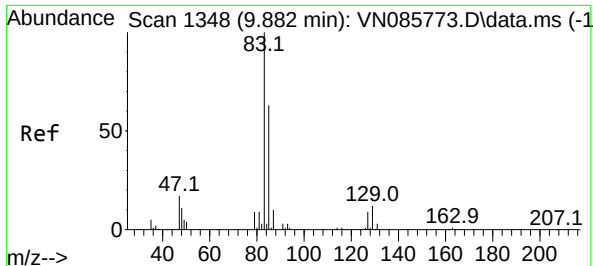
Ion Ratio Lower Upper

93 100

95 85.2 66.7 100.1

174 99.3 77.2 115.8





#47

Bromodichloromethane

Concen: 46.386 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085876.D

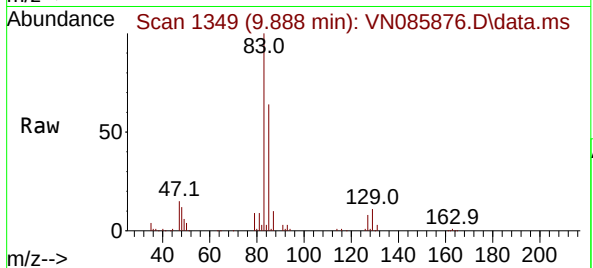
Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

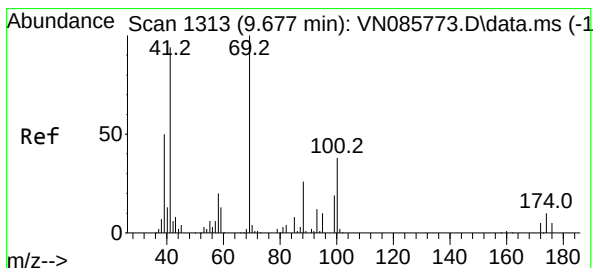
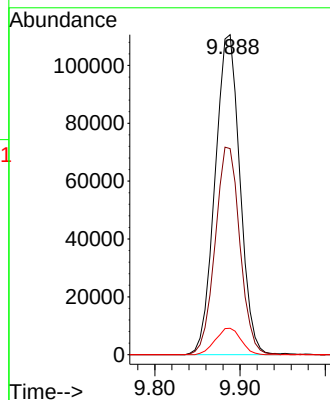
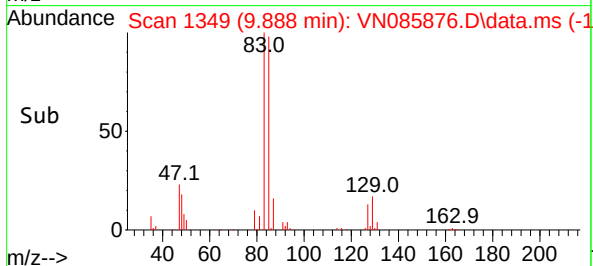


Tgt Ion	83	Resp	22429
Ion Ratio	100		
Lower	50.5		
Upper	75.7		
85	64.4		
127	8.2		

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#48

Methyl methacrylate

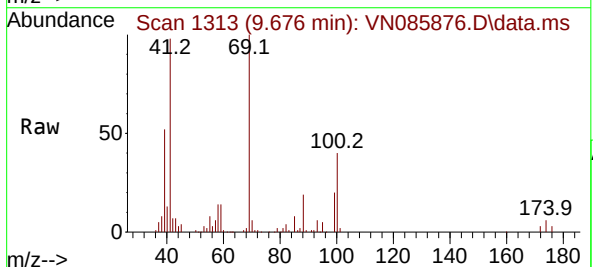
Concen: 50.422 ug/l

RT: 9.676 min Scan# 1313

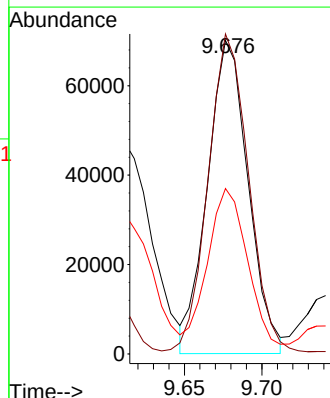
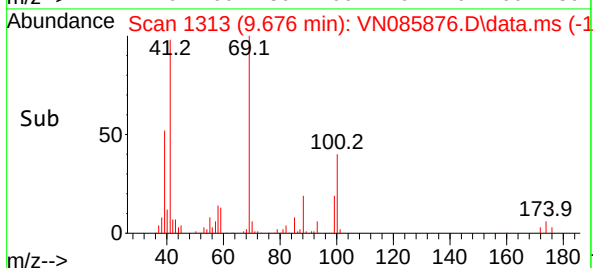
Delta R.T. -0.000 min

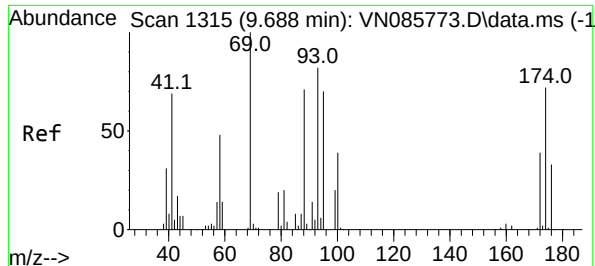
Lab File: VN085876.D

Acq: 26 Feb 2025 17:09



Tgt Ion	41	Resp	127629
Ion Ratio	100		
Lower	76.0		
Upper	114.0		
69	103.7		
39	53.2		





#49

1,4-Dioxane

Concen: 1140.553 ug/l

RT: 9.688 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 88 Resp: 54900

Ion Ratio Lower Upper

88 100

43 23.4 18.6 27.8

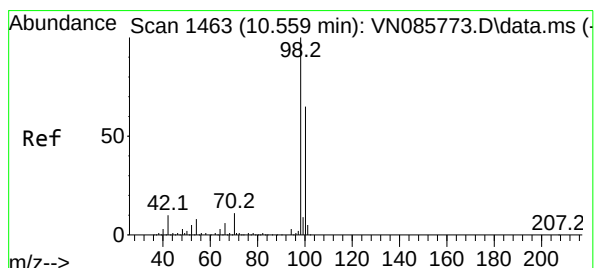
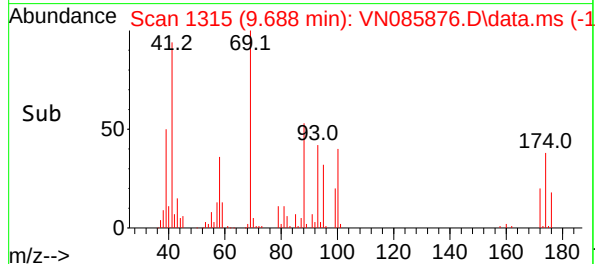
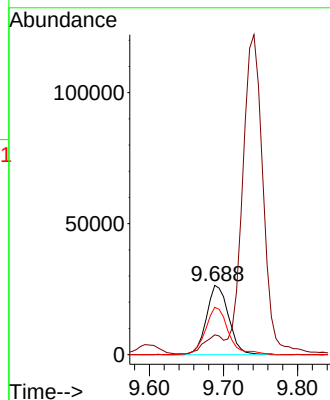
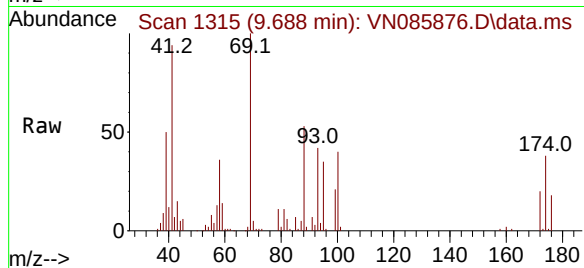
58 71.0 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#50

Toluene-d8

Concen: 47.919 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085876.D

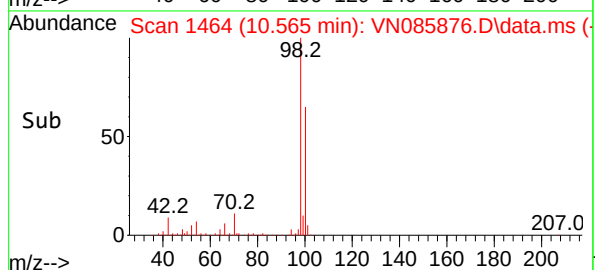
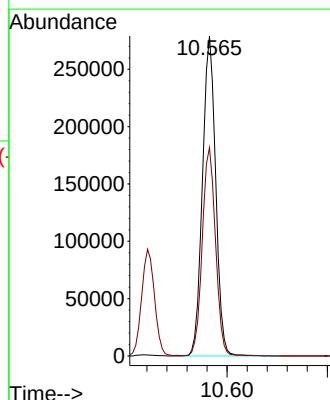
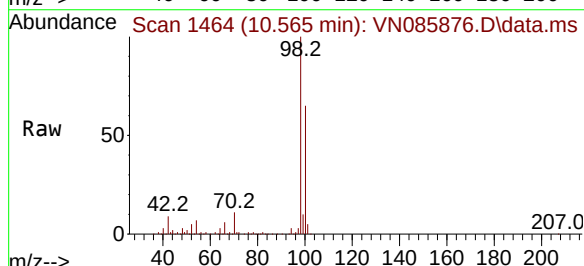
Acq: 26 Feb 2025 17:09

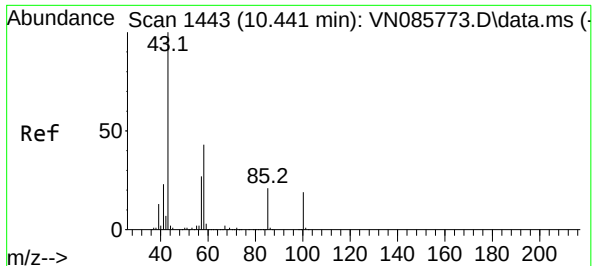
Tgt Ion: 98 Resp: 510198

Ion Ratio Lower Upper

98 100

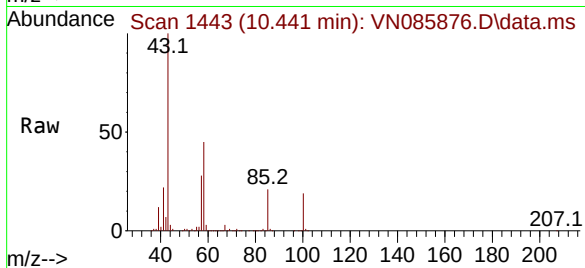
100 65.6 52.1 78.1





#51
4-Methyl-2-Pentanone
Concen: 269.232 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

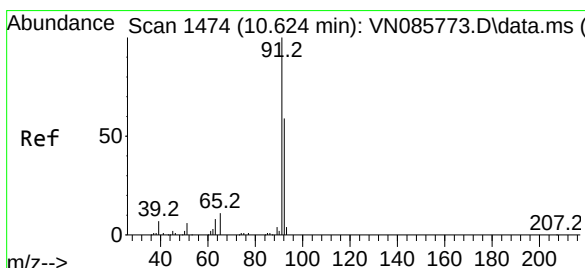
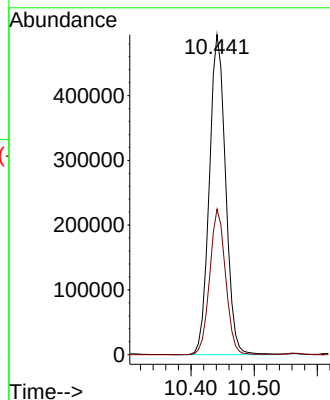
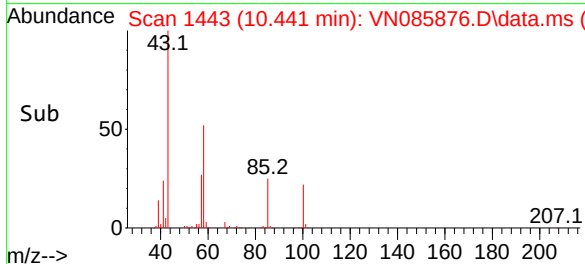
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 43 Resp: 88472
Ion Ratio Lower Upper
43 100
58 44.3 34.6 52.0

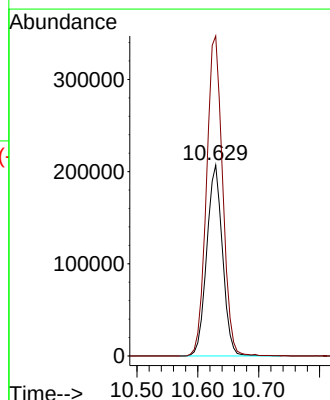
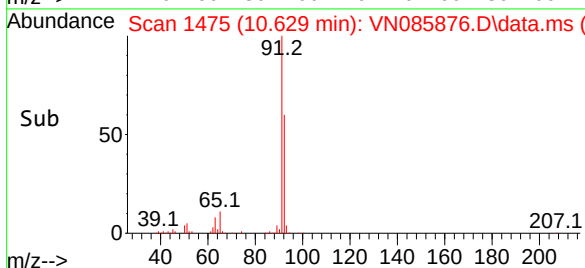
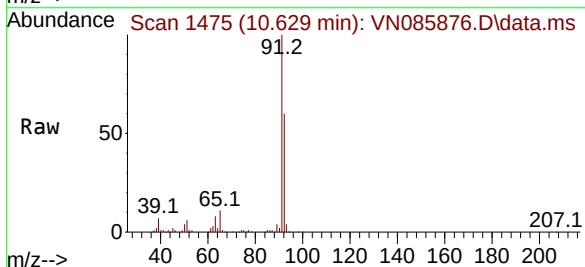
Manual Integrations
APPROVED

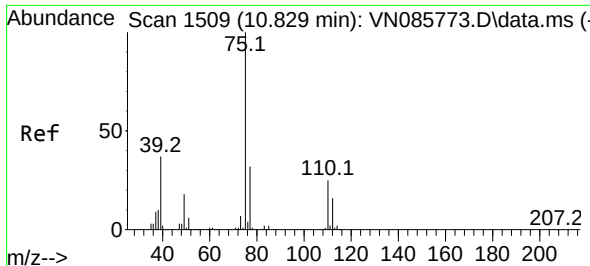
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#52
Toluene
Concen: 47.803 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

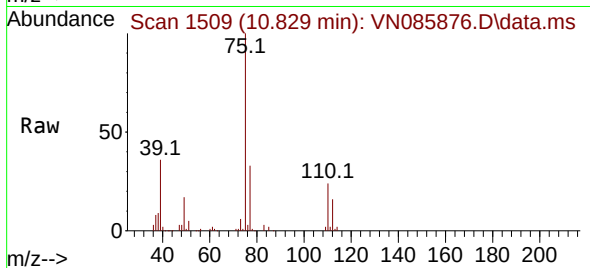
Tgt Ion: 92 Resp: 371965
Ion Ratio Lower Upper
92 100
91 171.4 136.9 205.3





#53
t-1,3-Dichloropropene
Concen: 48.711 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

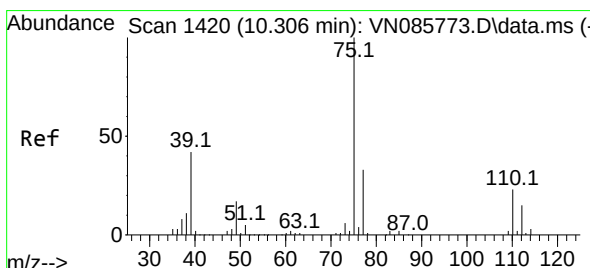
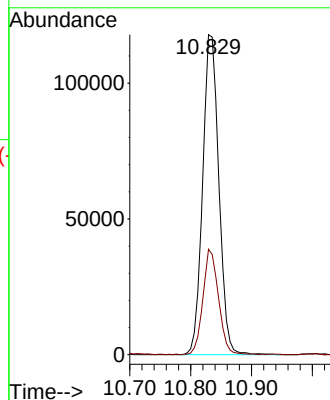
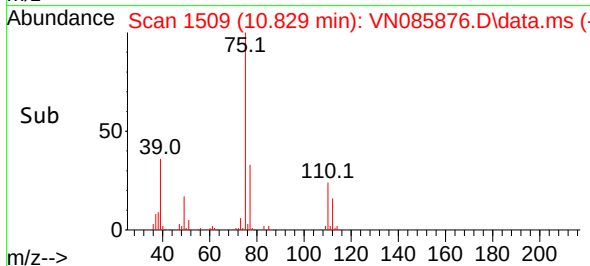
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 75 Resp: 217799
Ion Ratio Lower Upper
75 100
77 33.0 25.4 38.0

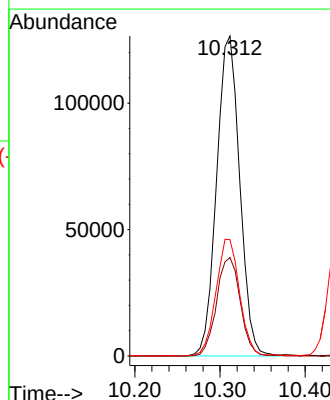
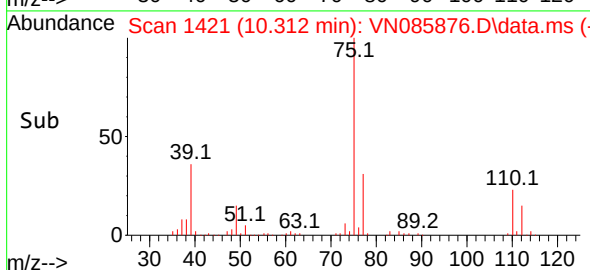
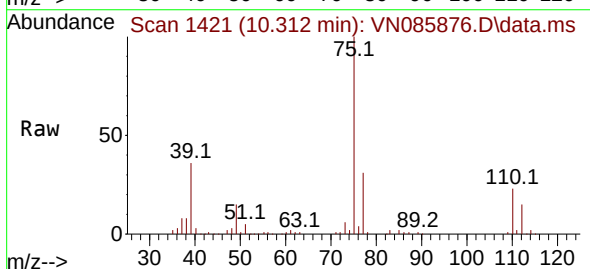
Manual Integrations
APPROVED

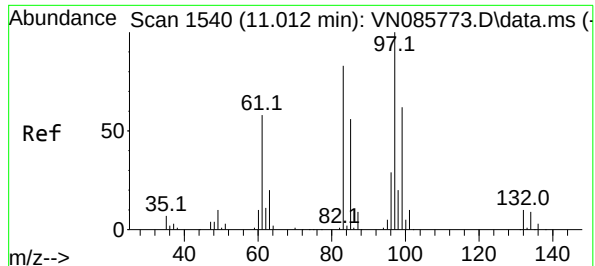
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#54
cis-1,3-Dichloropropene
Concen: 48.725 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 75 Resp: 238897
Ion Ratio Lower Upper
75 100
77 30.8 26.1 39.1
39 36.4 33.4 50.0





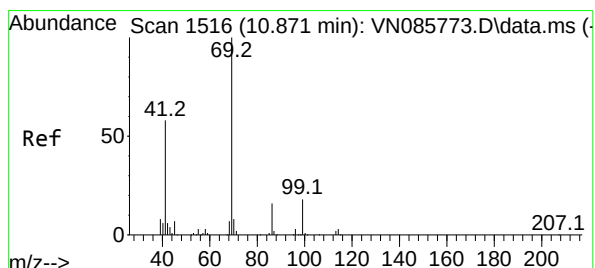
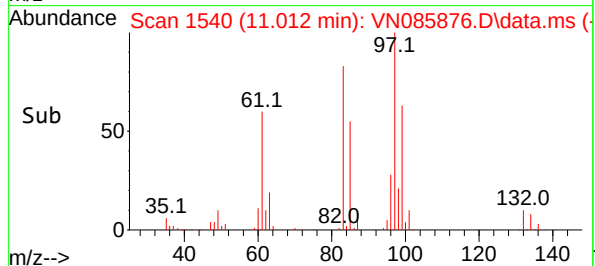
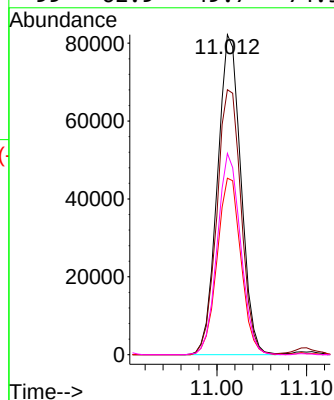
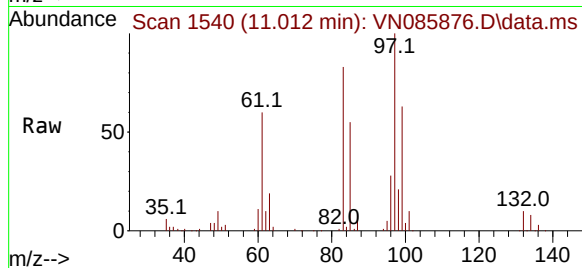
#55
1,1,2-Trichloroethane
Concen: 48.392 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS

Tgt Ion: 97 Resp: 14971
Ion Ratio Lower Upper
97 100
83 82.8 66.1 99.1
85 55.2 44.7 67.1
99 62.9 49.7 74.5

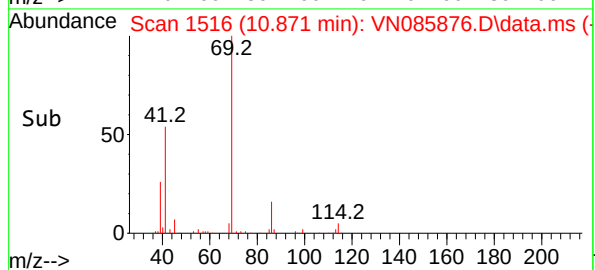
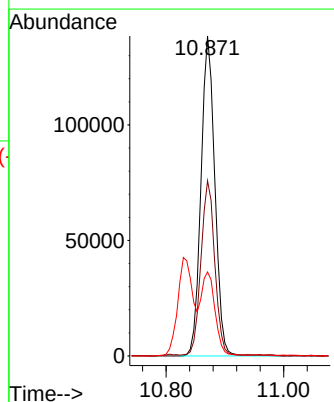
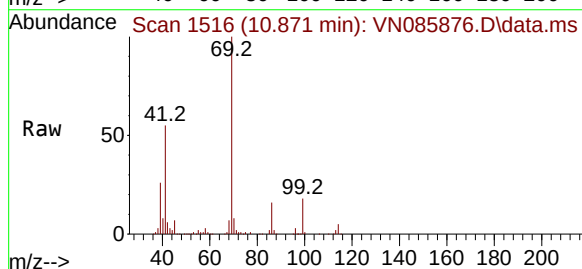
Manual Integrations
APPROVED

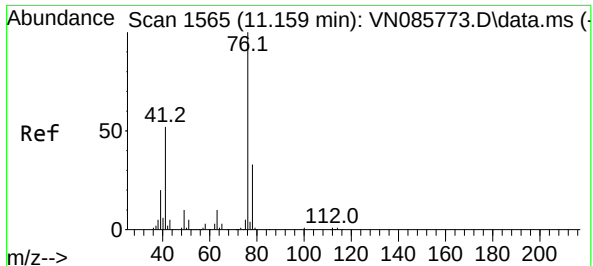
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#56
Ethyl methacrylate
Concen: 50.892 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 69 Resp: 226879
Ion Ratio Lower Upper
69 100
41 54.0 46.0 69.0
39 25.9 22.0 33.0





#57

1,3-Dichloropropane

Concen: 49.256 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 76 Resp: 25438

Ion Ratio Lower Upper

76 100

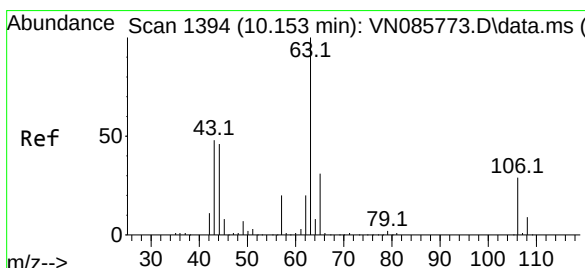
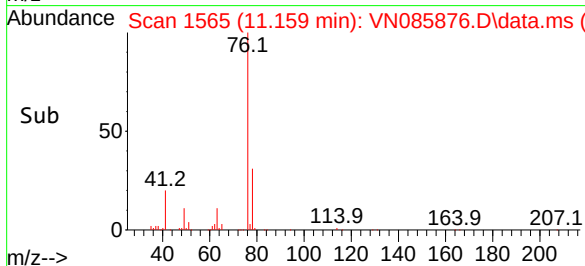
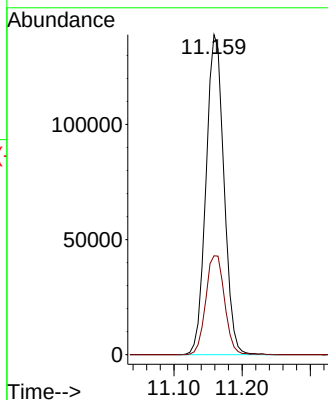
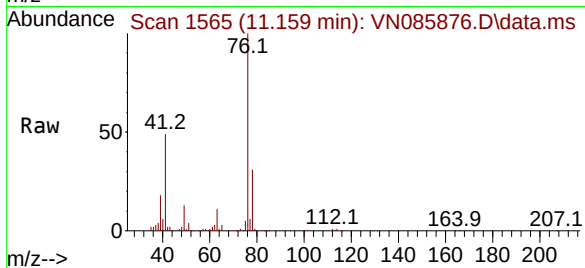
78 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#58

2-Chloroethyl Vinyl ether

Concen: 296.664 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085876.D

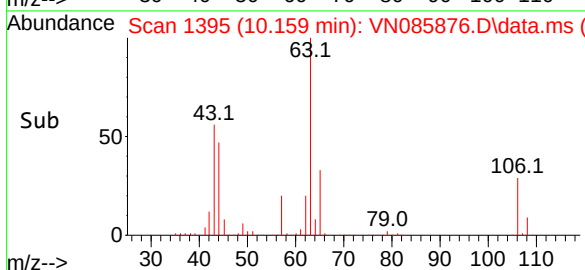
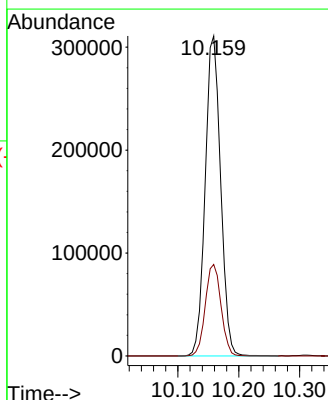
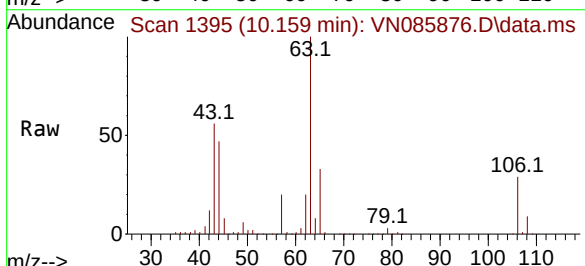
Acq: 26 Feb 2025 17:09

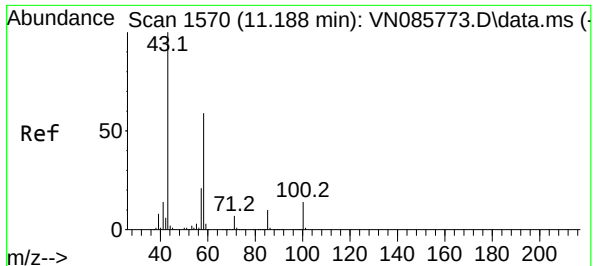
Tgt Ion: 63 Resp: 546594

Ion Ratio Lower Upper

63 100

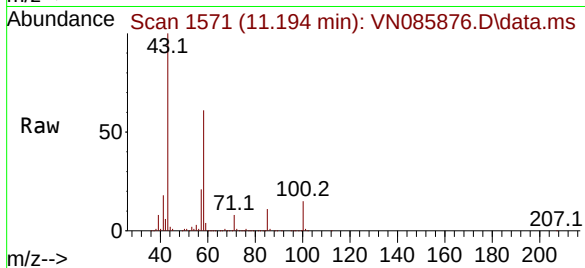
106 29.1 22.7 34.1





#59
2-Hexanone
Concen: 283.496 ug/l
RT: 11.194 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

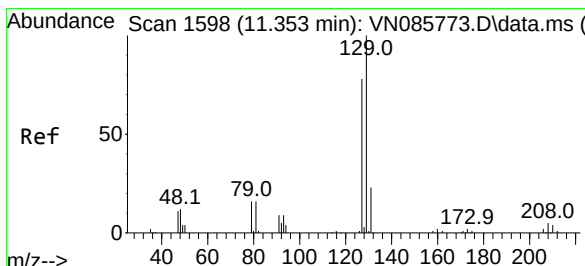
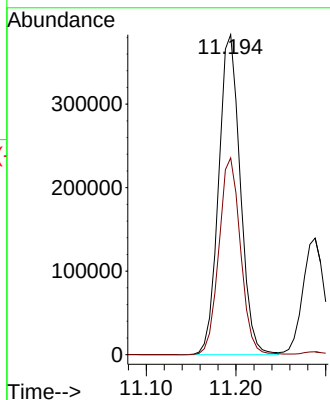
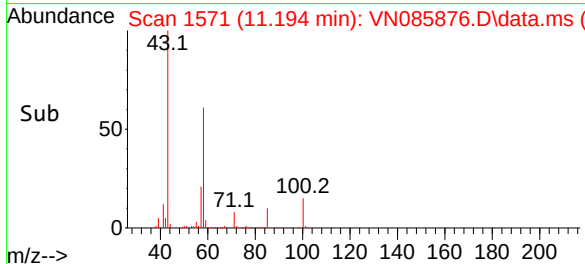
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 43 Resp: 64088
Ion Ratio Lower Upper
43 100
58 61.3 29.8 89.5

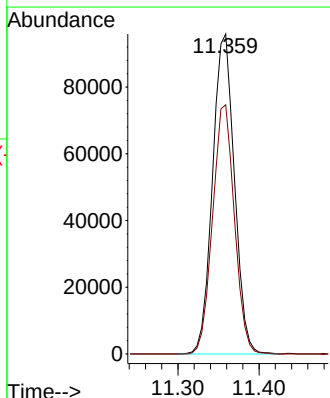
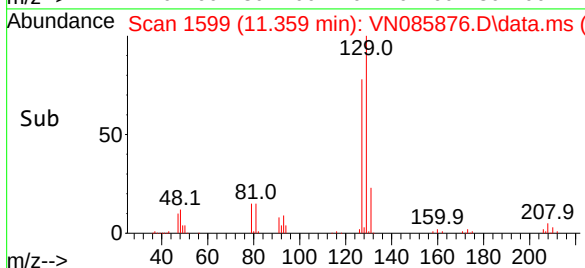
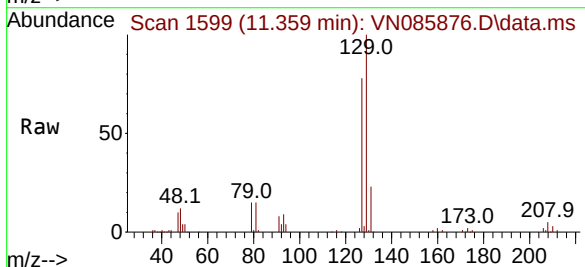
Manual Integrations
APPROVED

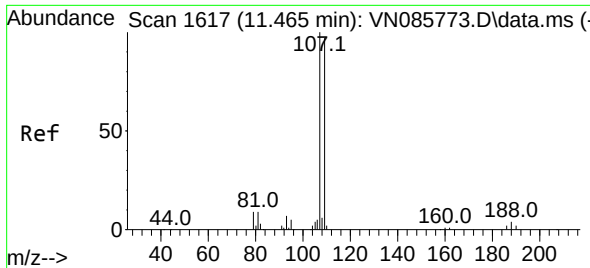
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#60
Dibromochloromethane
Concen: 49.831 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

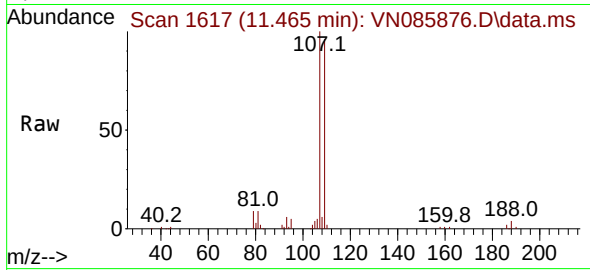
Tgt Ion:129 Resp: 179515
Ion Ratio Lower Upper
129 100
127 77.7 39.1 117.5





#61
1,2-Dibromoethane
Concen: 49.226 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

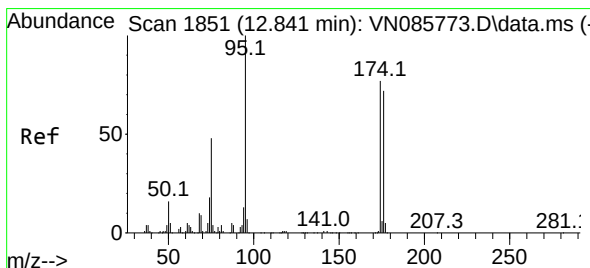
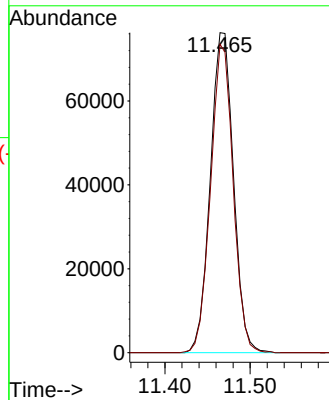
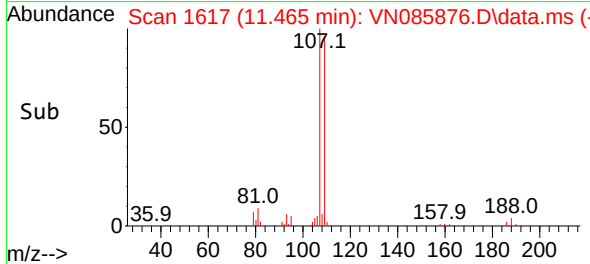
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 107 Resp: 143894
Ion Ratio Lower Upper
107 100
109 93.8 76.0 114.0

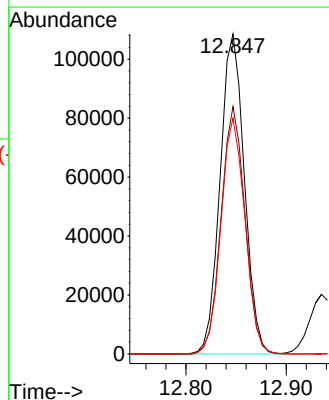
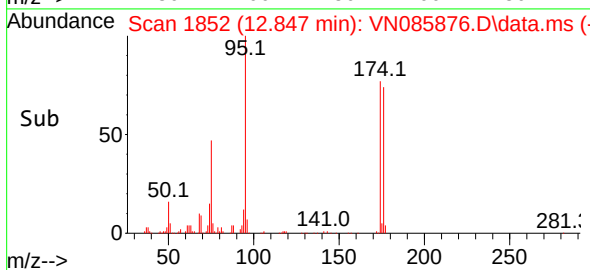
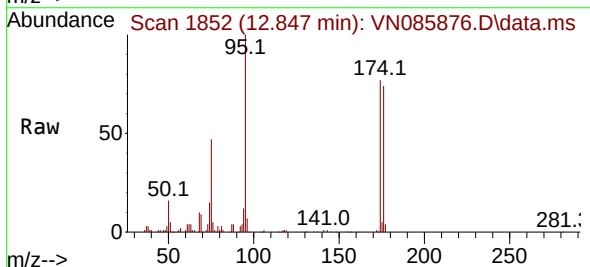
Manual Integrations
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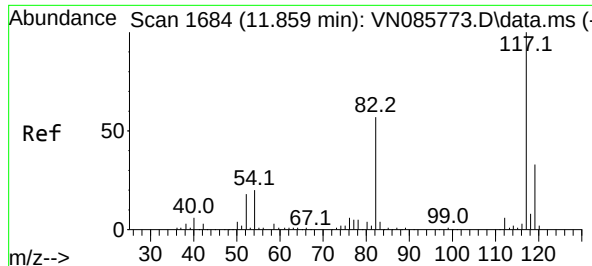
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#62
4-Bromofluorobenzene
Concen: 51.869 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion: 95 Resp: 181956
Ion Ratio Lower Upper
95 100
174 76.0 0.0 152.4
176 73.3 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 117

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:117 Resp: 39509

Ion Ratio Lower Upper

117 100

82 55.4 45.7 68.5

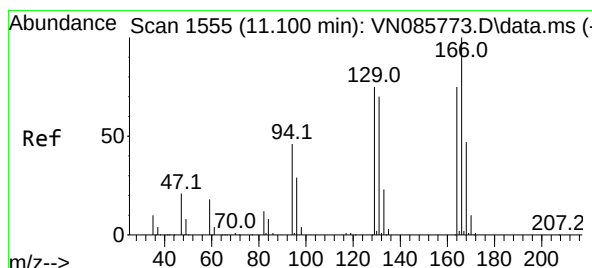
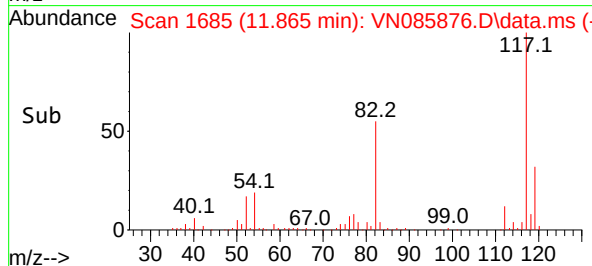
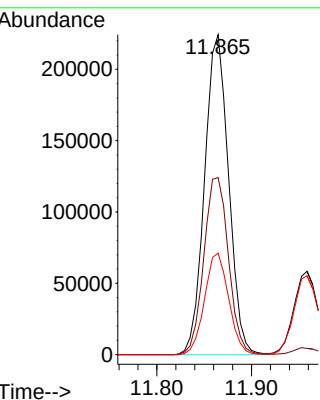
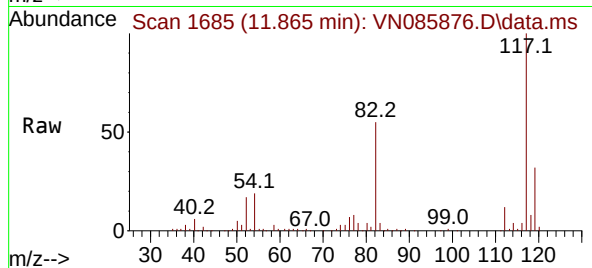
119 31.8 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#64

Tetrachloroethene

Concen: 44.839 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Tgt Ion:164 Resp: 137245

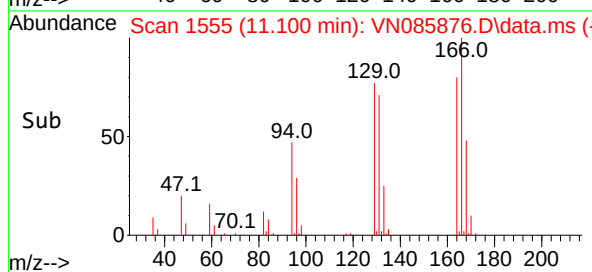
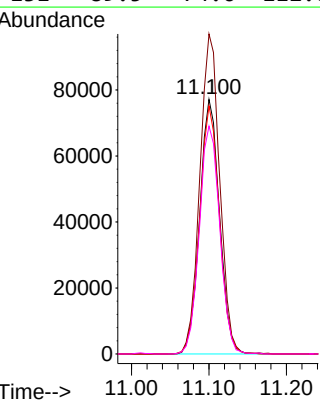
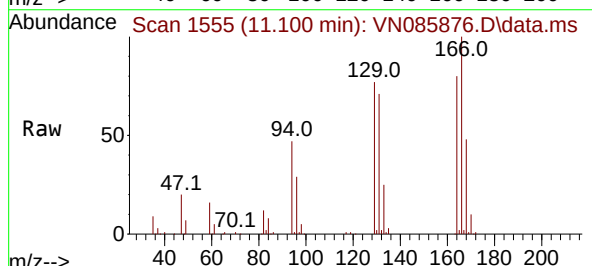
Ion Ratio Lower Upper

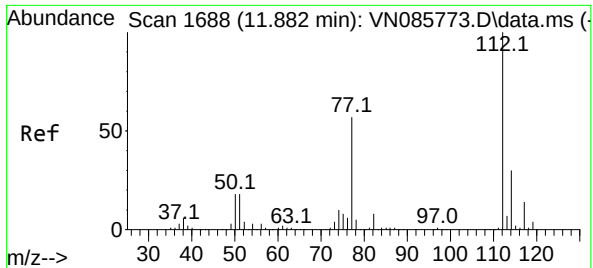
164 100

166 125.7 107.2 160.8

129 97.4 80.7 121.1

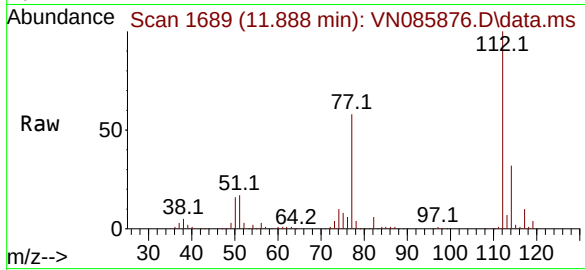
131 89.5 74.6 112.0





#65
Chlorobenzene
Concen: 44.593 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

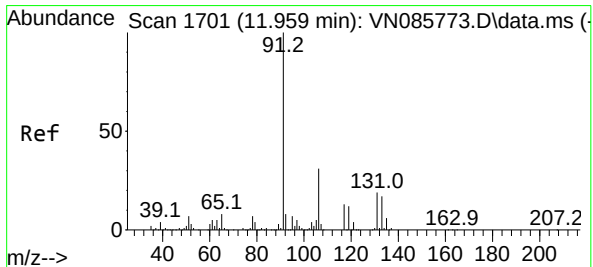
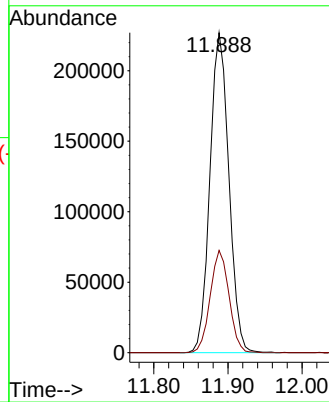
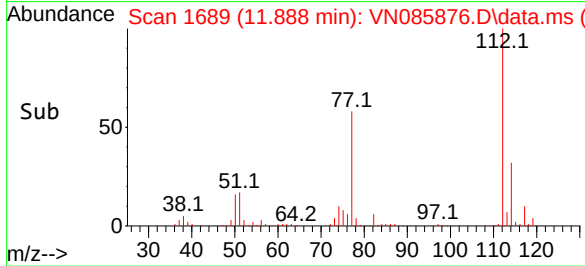
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:112 Resp: 403619
Ion Ratio Lower Upper
112 100
114 32.0 24.3 36.5

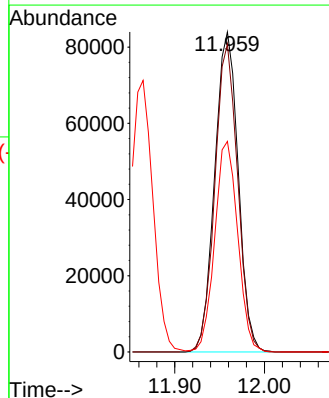
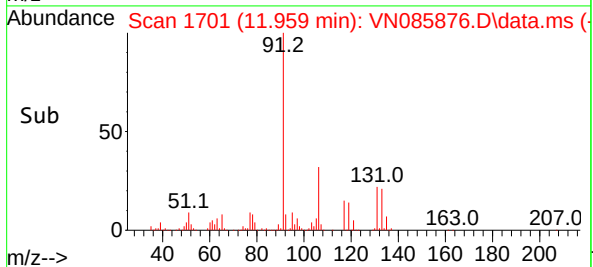
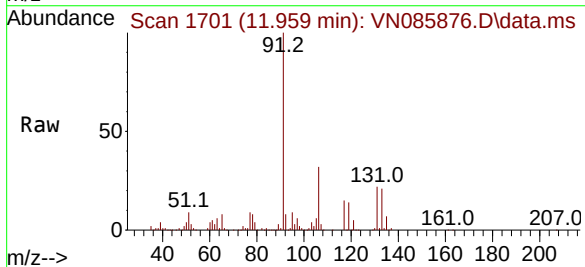
Manual Integrations
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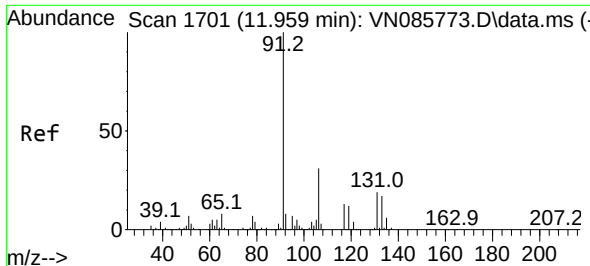
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 46.829 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion:131 Resp: 152348
Ion Ratio Lower Upper
131 100
133 93.6 47.7 143.1
119 64.7 33.3 99.8





#67

Ethyl Benzene

Concen: 47.015 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 91 Resp: 66658

Ion Ratio Lower Upper

91 100

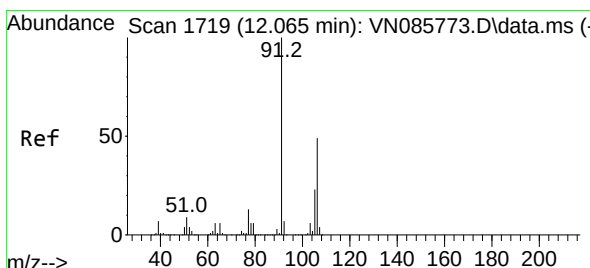
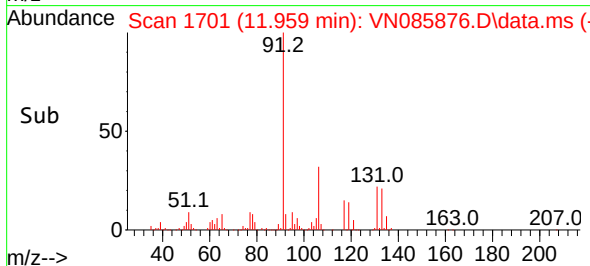
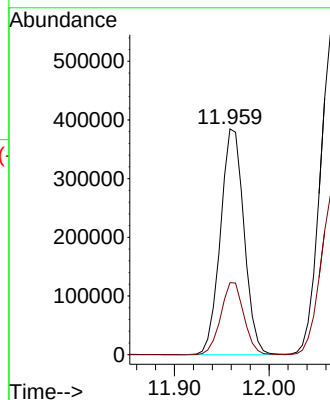
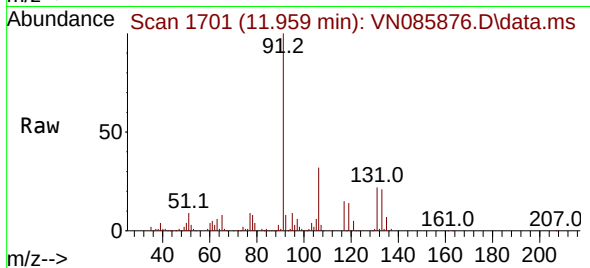
106 31.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#68

m/p-Xylenes

Concen: 99.206 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.005 min

Lab File: VN085876.D

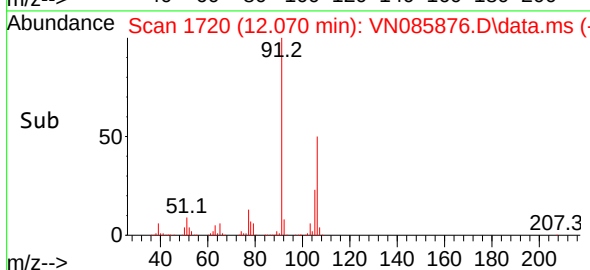
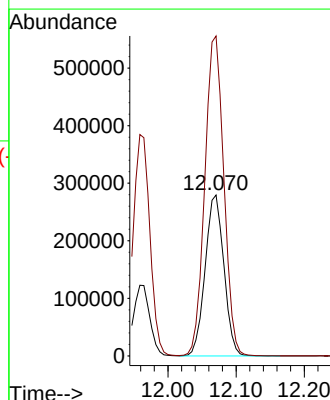
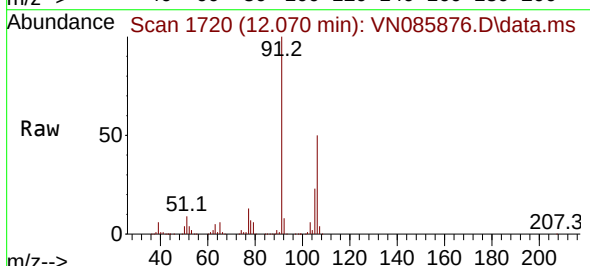
Acq: 26 Feb 2025 17:09

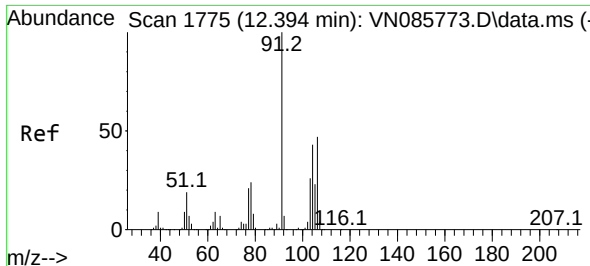
Tgt Ion:106 Resp: 534279

Ion Ratio Lower Upper

106 100

91 201.8 163.3 244.9





#69

o-Xylene

Concen: 49.409 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:106 Resp: 25285

Ion Ratio Lower Upper

106 100

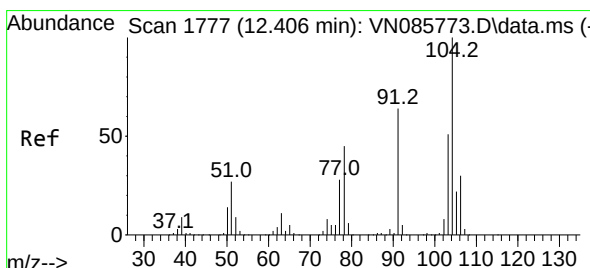
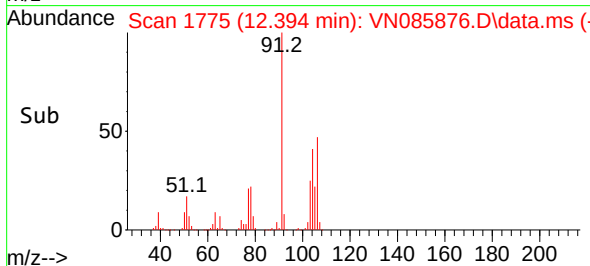
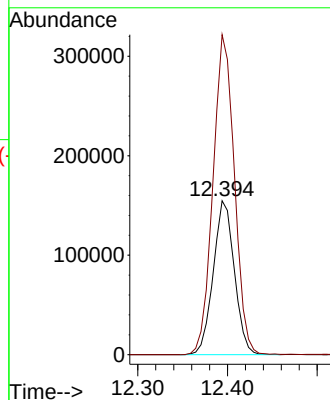
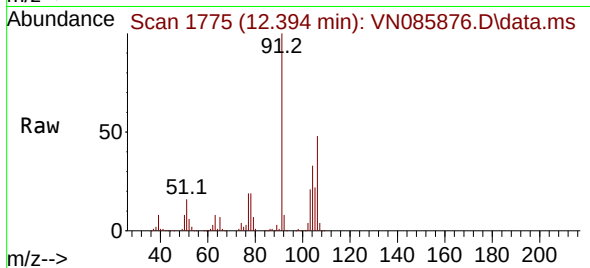
91 211.2 107.1 321.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#70

Styrene

Concen: 46.395 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

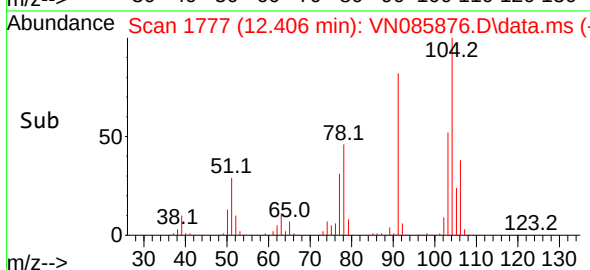
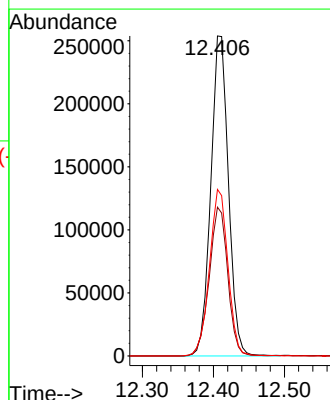
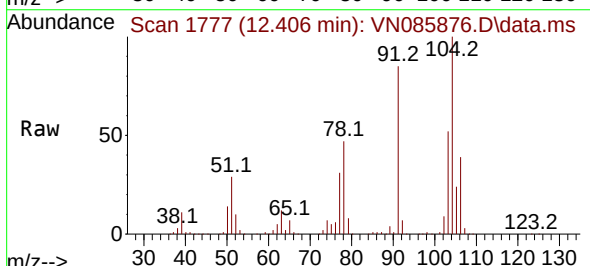
Tgt Ion:104 Resp: 438422

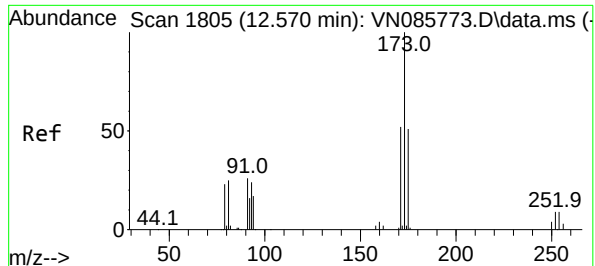
Ion Ratio Lower Upper

104 100

78 48.9 39.0 58.6

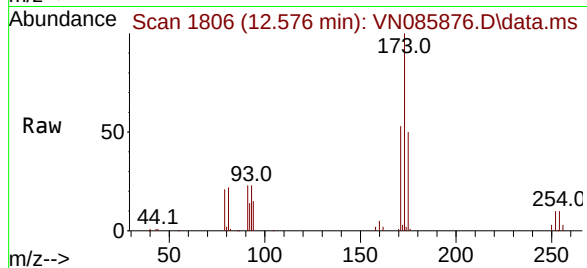
103 54.4 43.3 64.9





#71
Bromoform
Concen: 50.214 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

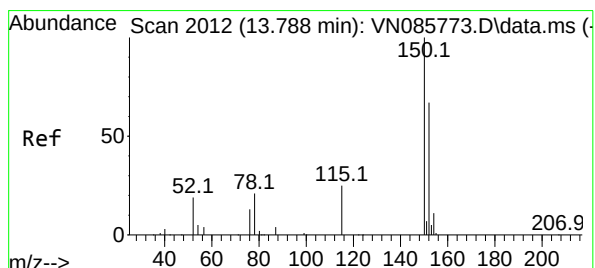
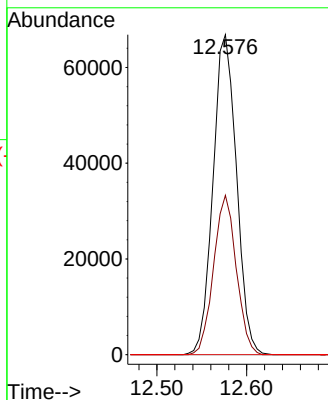
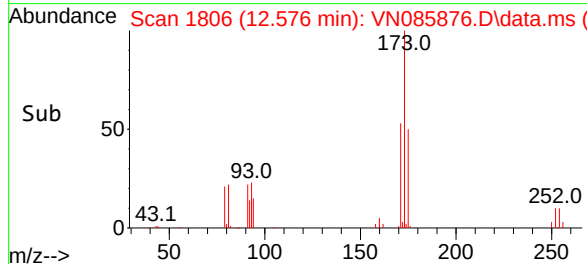
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



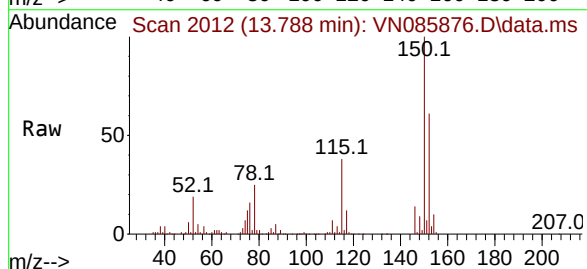
Tgt Ion:173 Resp: 12138
Ion Ratio Lower Upper
173 100
175 48.2 25.1 75.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

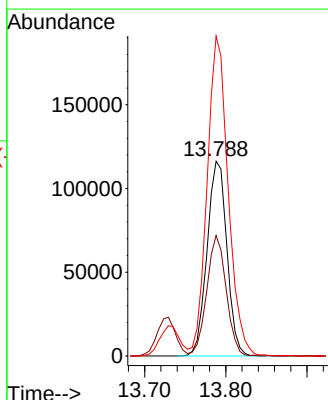
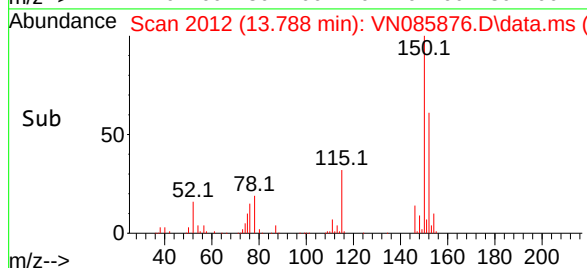
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

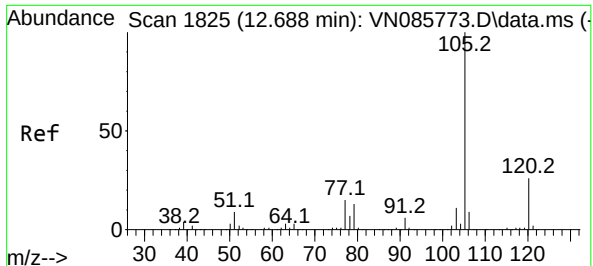


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09



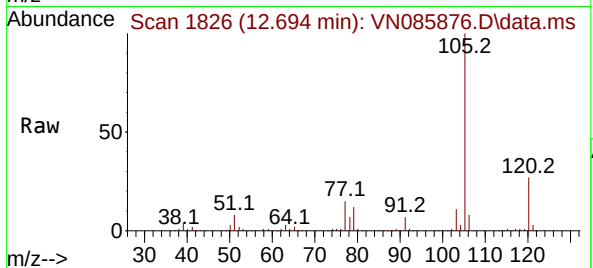
Tgt Ion:152 Resp: 197597
Ion Ratio Lower Upper
152 100
115 60.4 30.4 91.3
150 173.8 0.0 345.4





#73
Isopropylbenzene
Concen: 45.419 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

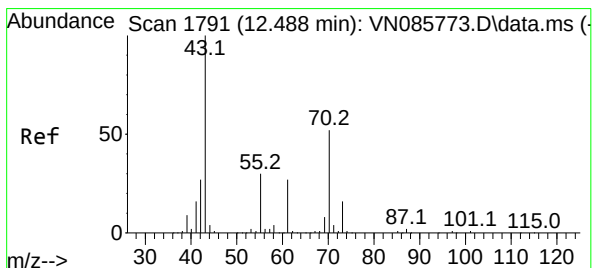
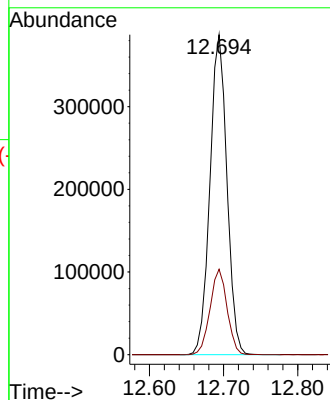
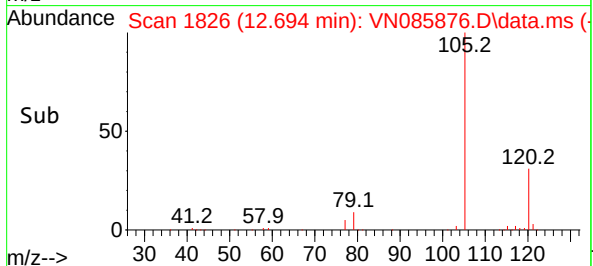
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:105 Resp: 61485
Ion Ratio Lower Upper
105 100
120 26.8 13.0 39.0

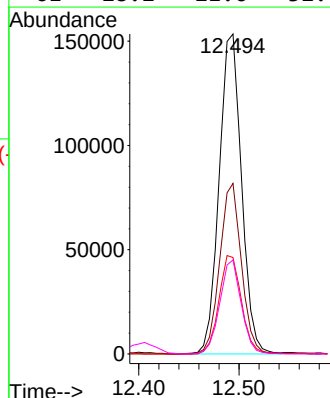
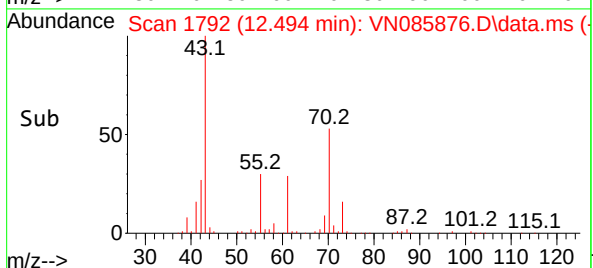
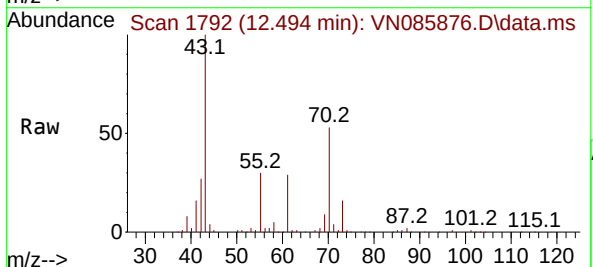
Manual Integrations
APPROVED

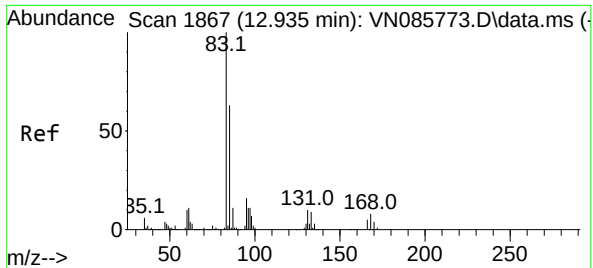
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#74
N-ethyl acetate
Concen: 49.782 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

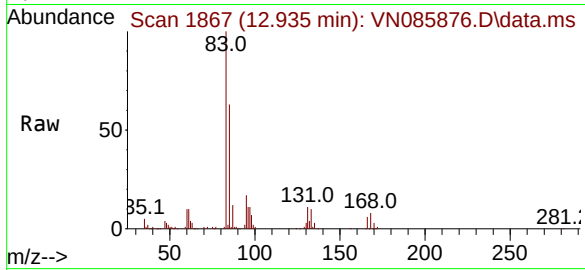
Tgt Ion: 43 Resp: 237651
Ion Ratio Lower Upper
43 100
70 51.6 41.0 61.4
55 31.0 24.6 36.8
61 28.2 21.6 32.4





#75
1,1,2,2-Tetrachloroethane
Concen: 45.220 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

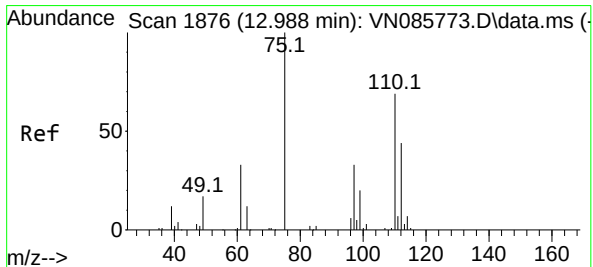
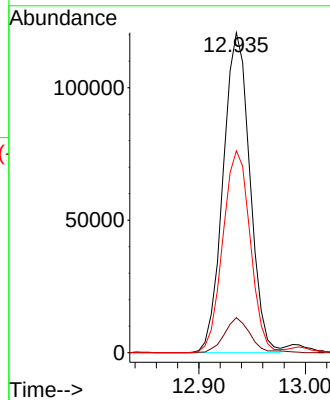
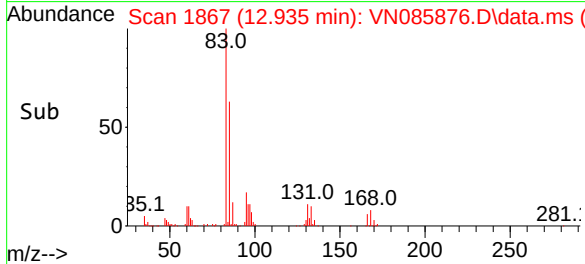
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 83 Resp: 210652
Ion Ratio Lower Upper
83 100
131 10.6 5.0 15.0
85 64.6 32.2 96.6

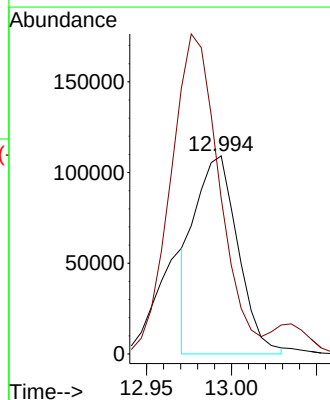
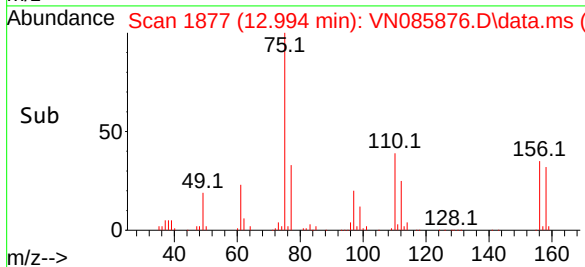
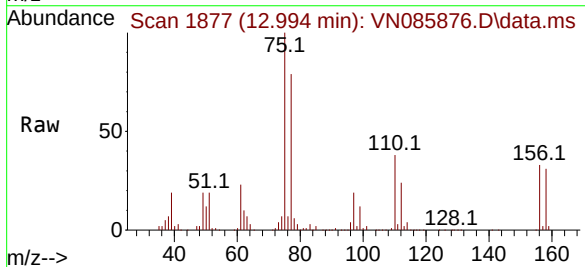
Manual Integrations
APPROVED

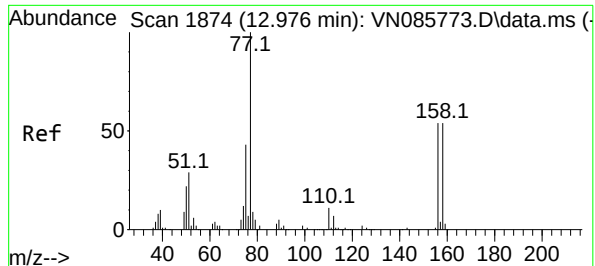
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#76
1,2,3-Trichloropropane
Concen: 43.999 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

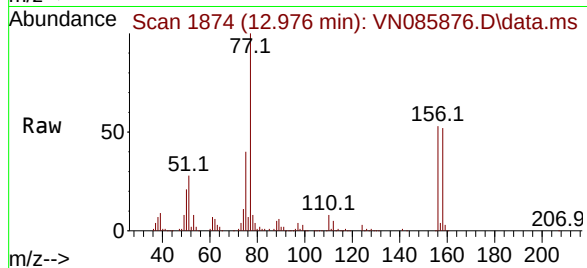
Tgt Ion: 75 Resp: 193123
Ion Ratio Lower Upper
75 100
77 182.4 100.0 300.0





#77
Bromobenzene
Concen: 45.253 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

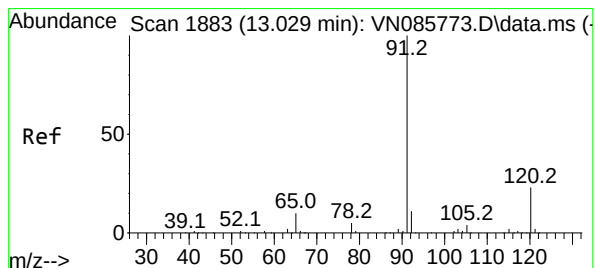
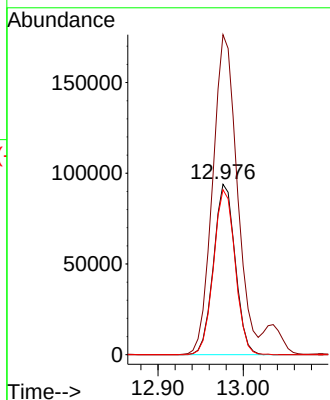
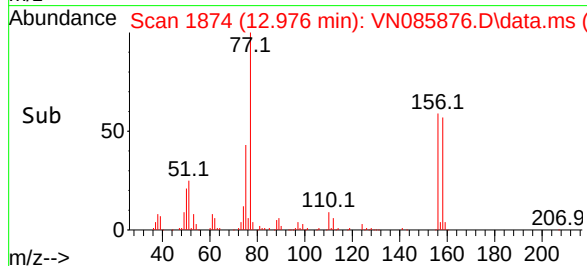
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



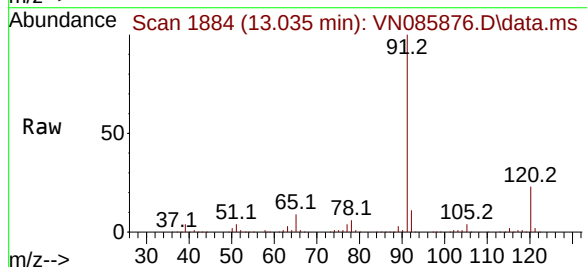
Tgt Ion:156 Resp: 165508
Ion Ratio Lower Upper
156 100
77 212.8 104.1 312.3
158 96.6 48.1 144.4

Manual Integrations
APPROVED

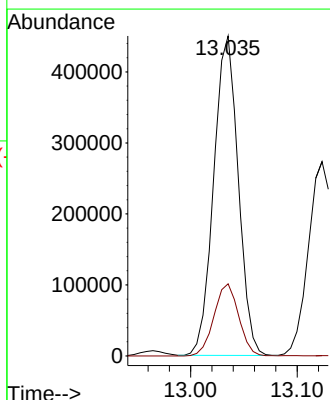
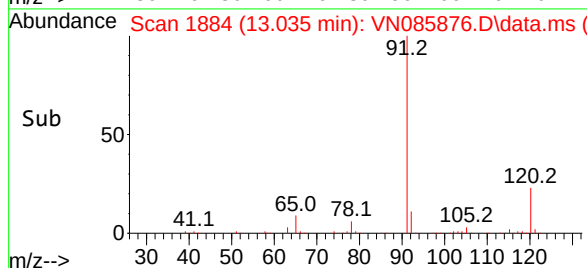
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

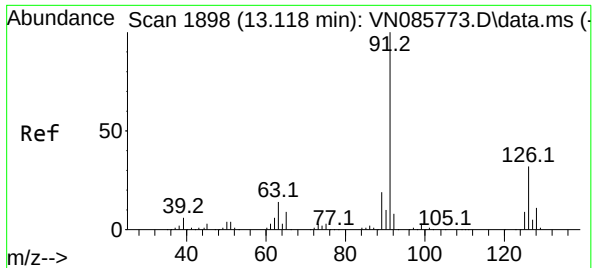


#78
n-propylbenzene
Concen: 46.376 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09



Tgt Ion: 91 Resp: 718983
Ion Ratio Lower Upper
91 100
120 22.7 11.3 33.8





#79

2-Chlorotoluene

Concen: 44.838 ug/l

RT: 13.123 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 91 Resp: 464454

Ion Ratio Lower Upper

91 100

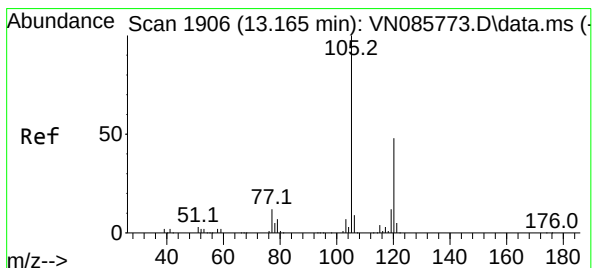
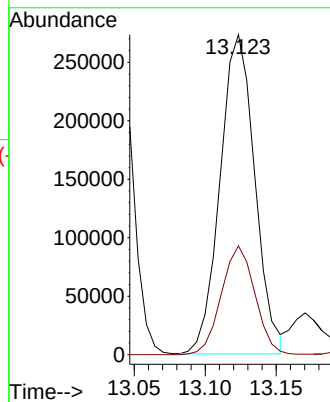
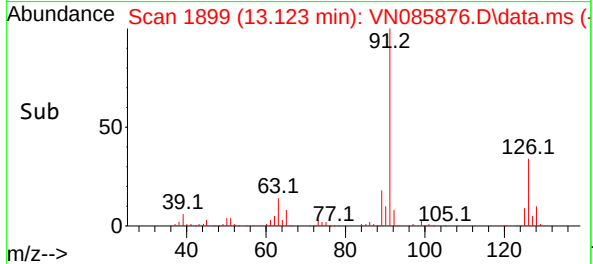
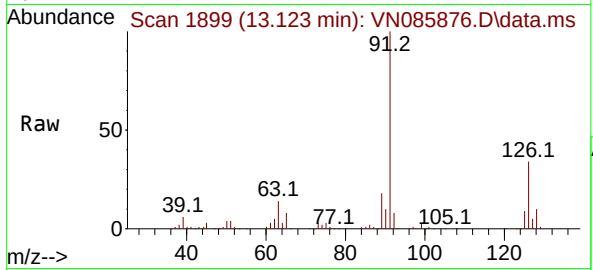
126 32.9 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#80

1,3,5-Trimethylbenzene

Concen: 48.294 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085876.D

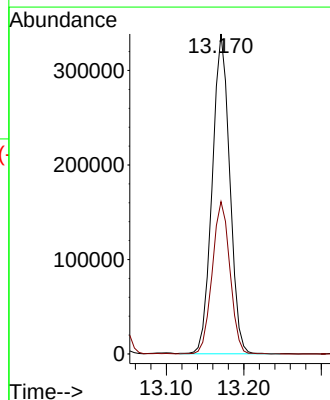
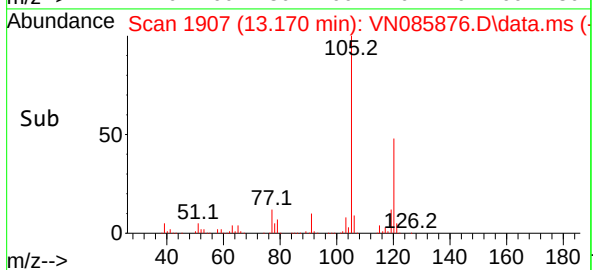
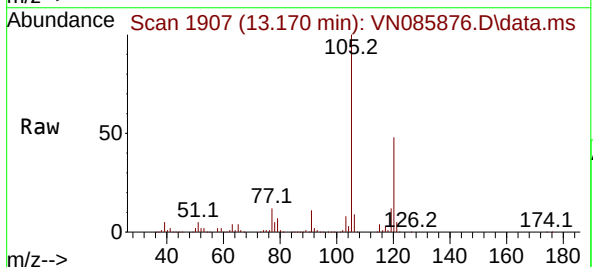
Acq: 26 Feb 2025 17:09

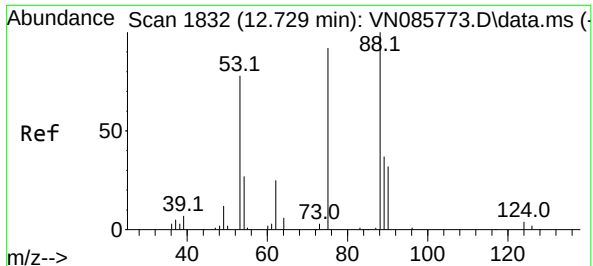
Tgt Ion:105 Resp: 532554

Ion Ratio Lower Upper

105 100

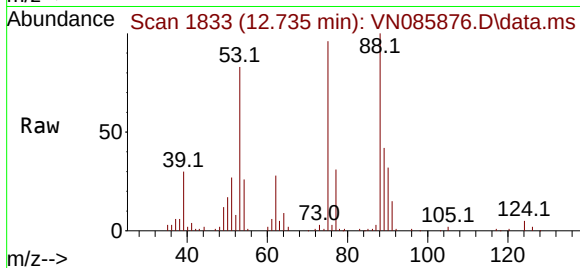
120 48.2 24.3 72.9





#81
trans-1,4-Dichloro-2-butene
Concen: 52.635 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

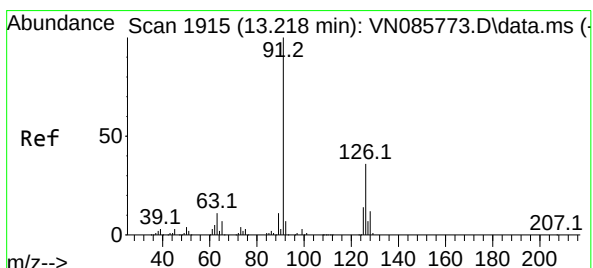
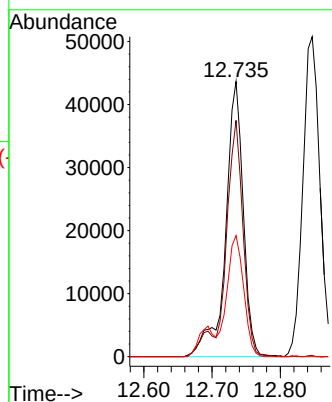
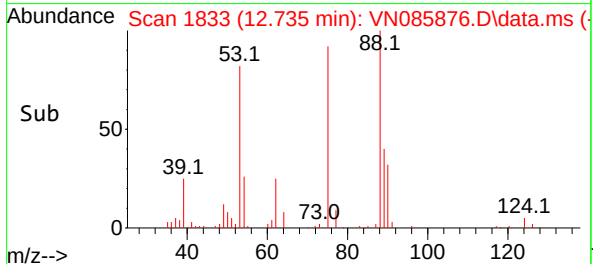
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion	Ratio	Lower	Upper
75	100		
53	76.1	74.2	111.4
89	41.5	34.9	52.3

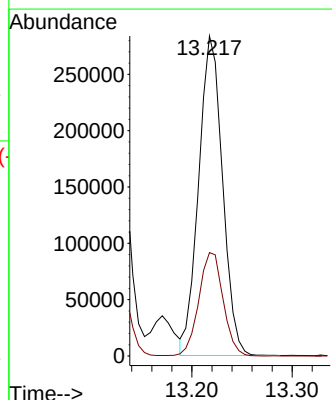
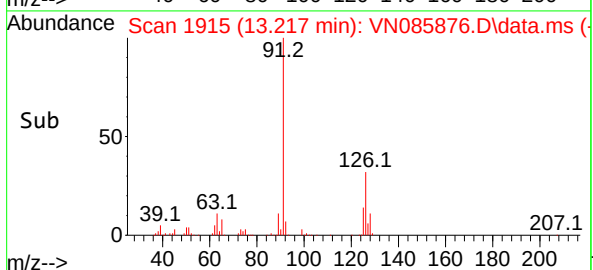
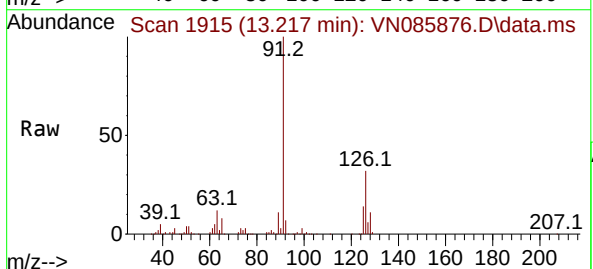
Manual Integrations
APPROVED

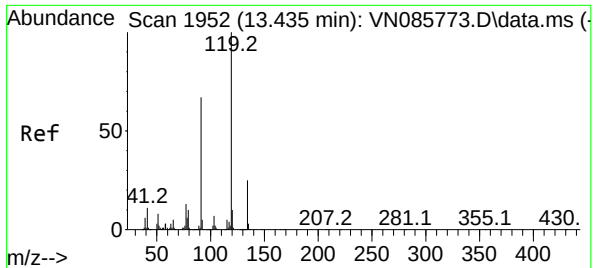
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#82
4-Chlorotoluene
Concen: 45.655 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

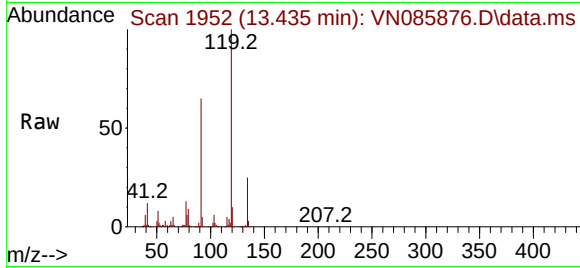
Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4





#83
tert-Butylbenzene
Concen: 48.032 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

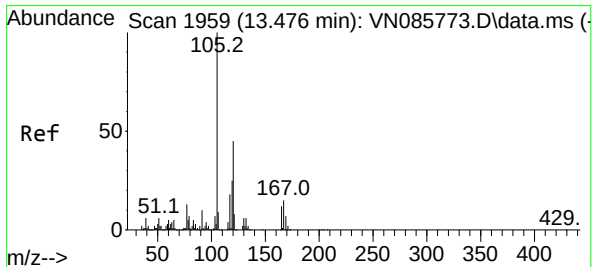
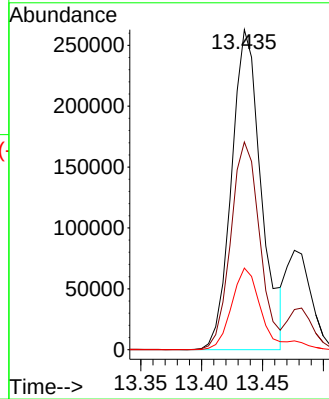
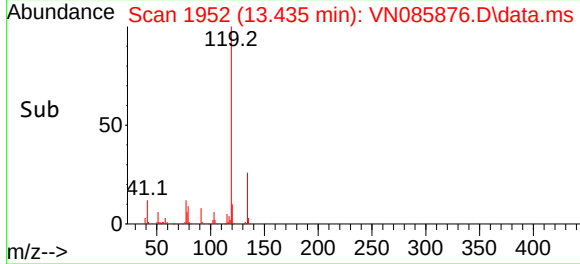
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:119 Resp: 445404
Ion Ratio Lower Upper
119 100
91 63.7 32.5 97.5
134 26.3 13.3 39.9

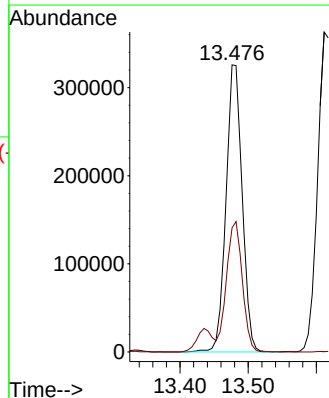
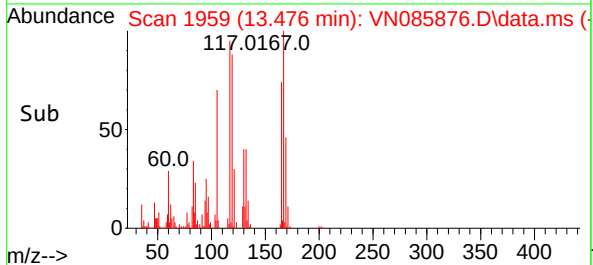
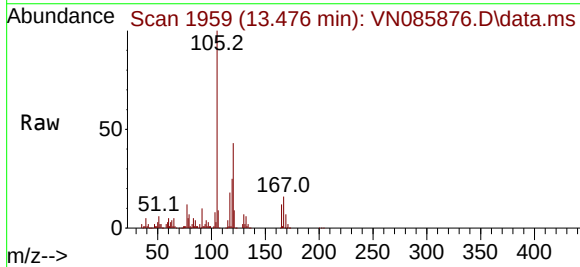
Manual Integrations
APPROVED

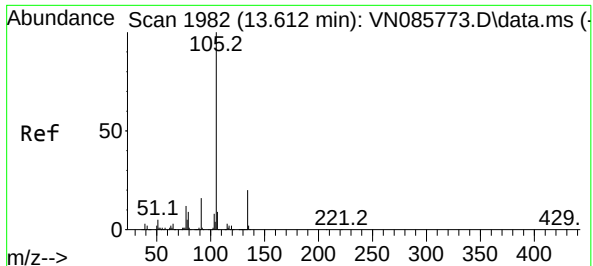
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#84
1,2,4-Trimethylbenzene
Concen: 49.232 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

Tgt Ion:105 Resp: 537124
Ion Ratio Lower Upper
105 100
120 44.5 22.4 67.3





#85

sec-Butylbenzene

Concen: 45.434 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:105 Resp: 595269

Ion Ratio Lower Upper

105 100

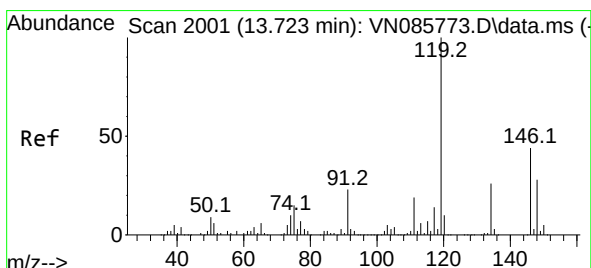
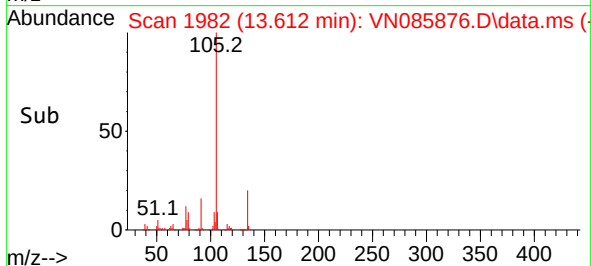
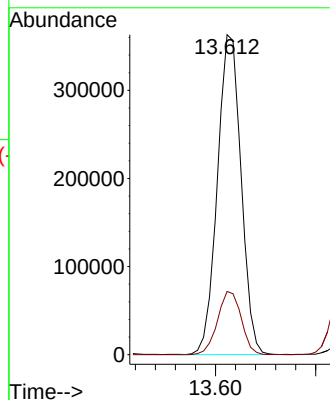
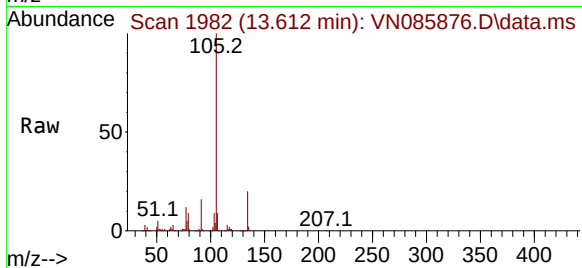
134 19.8 9.8 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#86

p-Isopropyltoluene

Concen: 42.428 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

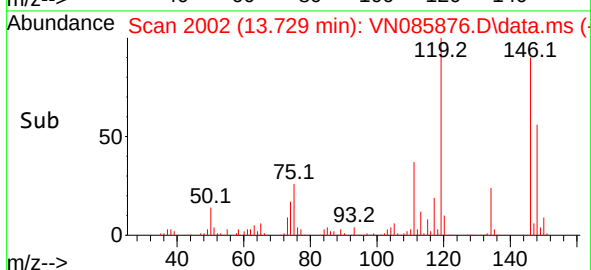
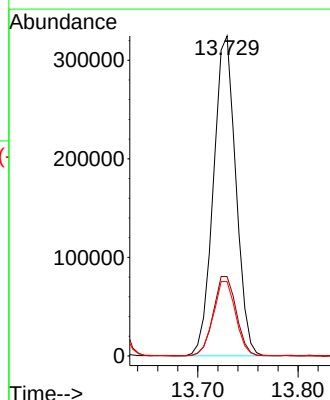
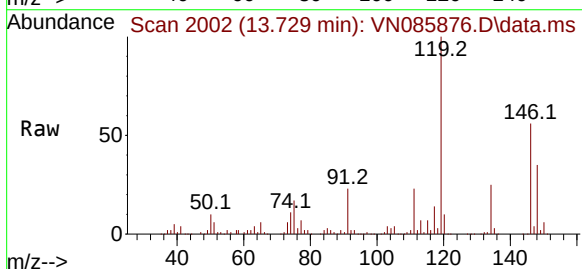
Tgt Ion:119 Resp: 502099

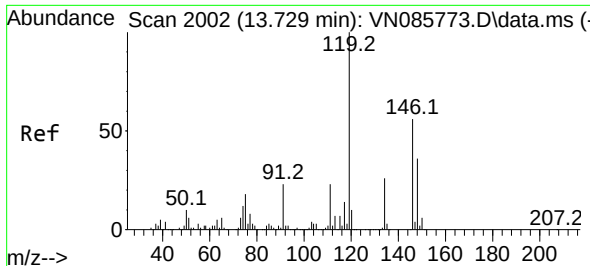
Ion Ratio Lower Upper

119 100

134 25.7 13.0 39.0

91 23.4 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 43.411 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:146 Resp: 297460

Ion Ratio Lower Upper

146 100

111 41.7 21.1 63.3

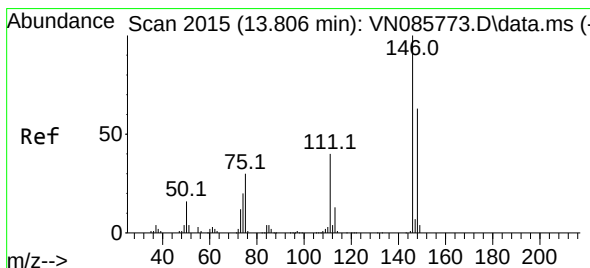
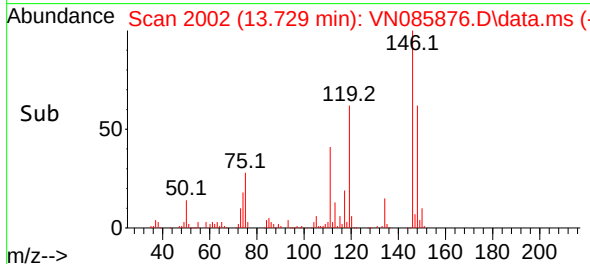
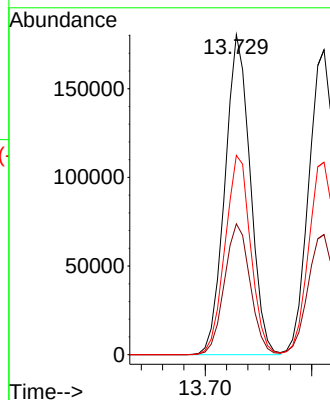
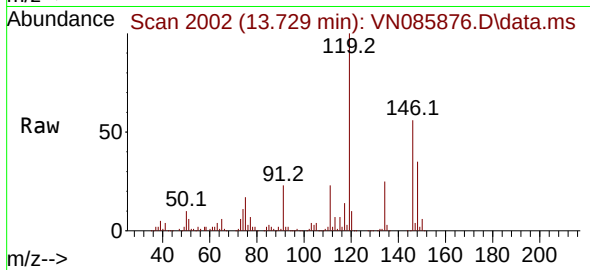
148 63.1 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#88

1,4-Dichlorobenzene

Concen: 42.072 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

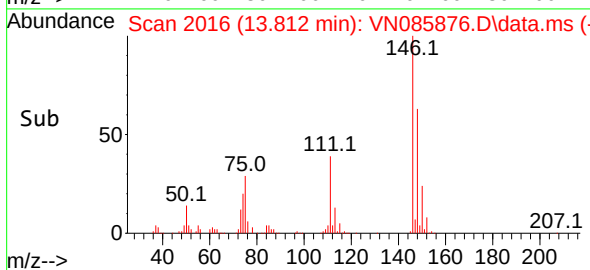
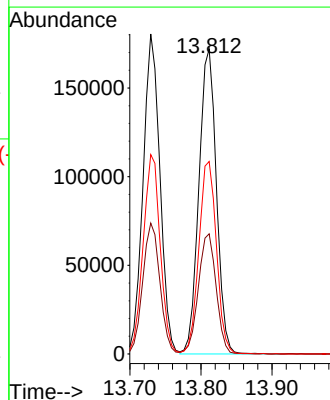
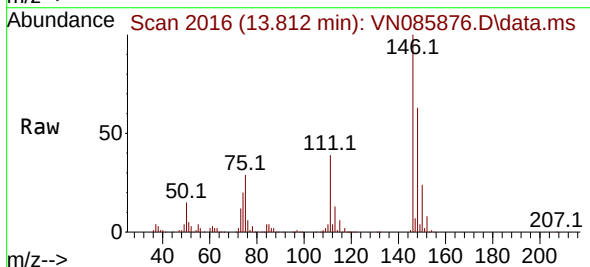
Tgt Ion:146 Resp: 295472

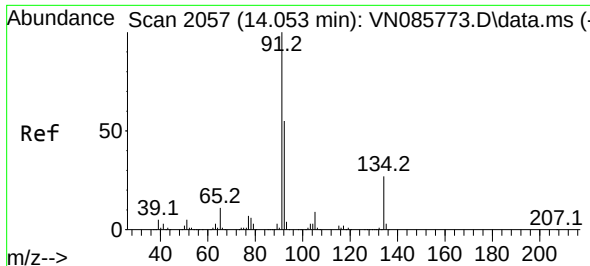
Ion Ratio Lower Upper

146 100

111 40.3 20.4 61.3

148 63.5 31.8 95.4





#89

n-Butylbenzene

Concen: 43.012 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

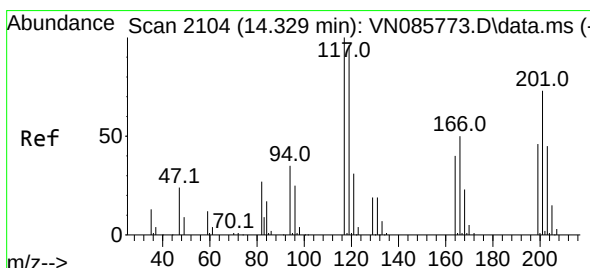
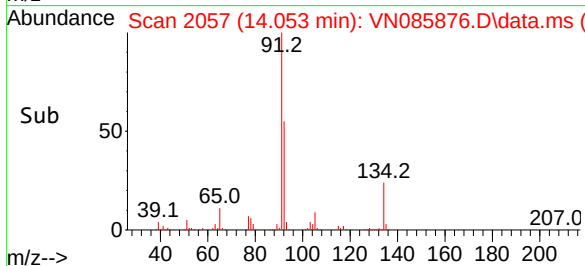
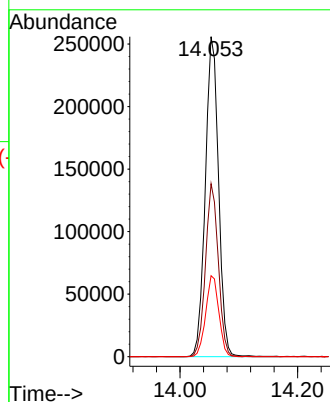
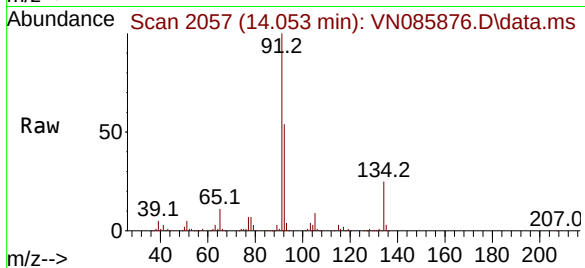
P001-CLAY-CF01-01MS

Tgt Ion:	91	Resp:	400109
Ion Ratio	Lower	Upper	
91	100		
92	52.3	27.1	81.3
134	25.0	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#90

Hexachloroethane

Concen: 40.621 ug/l

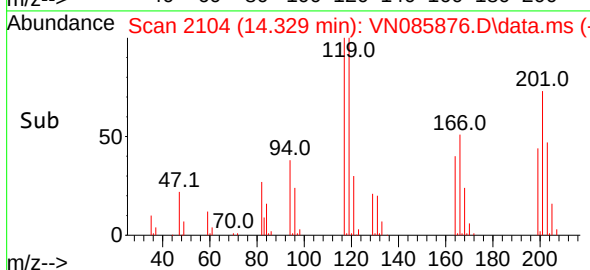
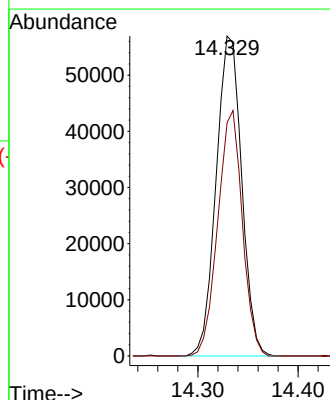
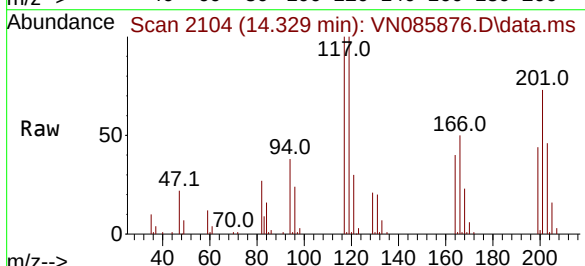
RT: 14.329 min Scan# 2104

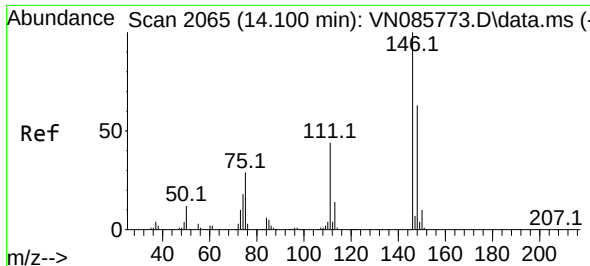
Delta R.T. -0.000 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Tgt Ion:	117	Resp:	100795
Ion Ratio	Lower	Upper	
117	100		
201	73.7	35.6	106.9





#91

1,2-Dichlorobenzene

Concen: 44.193 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:146 Resp: 291198

Ion Ratio Lower Upper

146 100

111 43.6 21.4 64.3

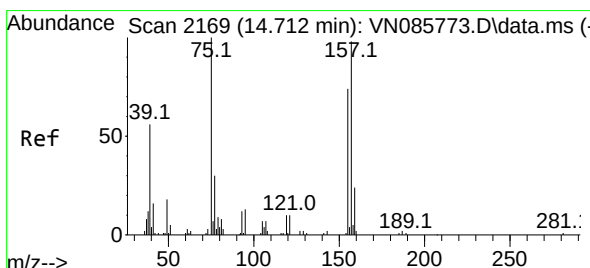
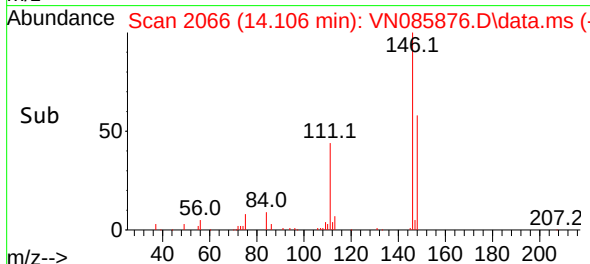
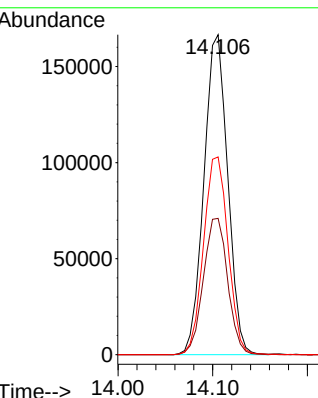
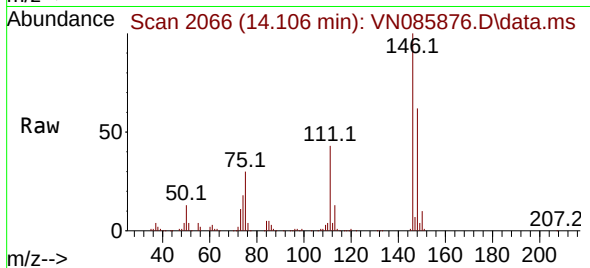
148 63.6 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.084 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.006 min

Lab File: VN085876.D

Acq: 26 Feb 2025 17:09

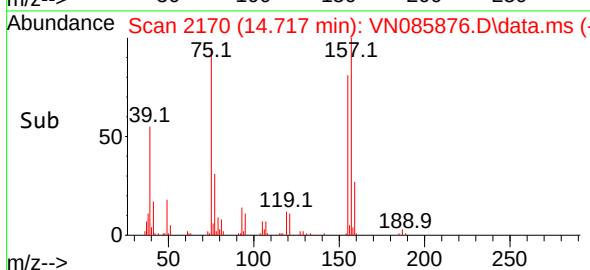
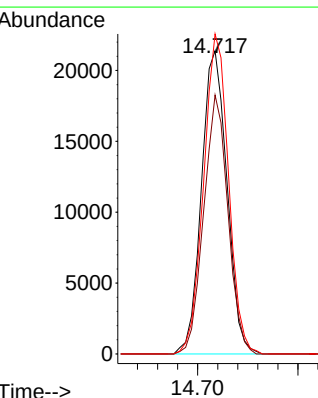
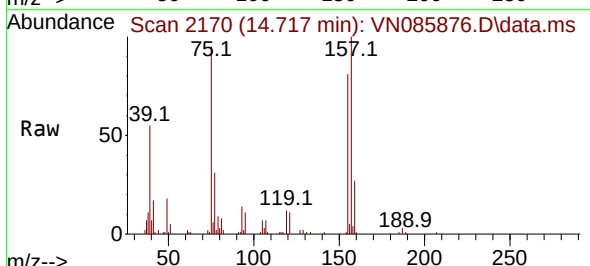
Tgt Ion: 75 Resp: 37710

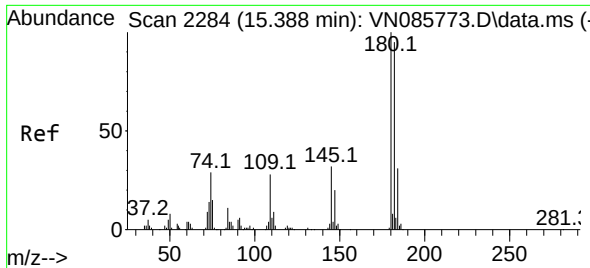
Ion Ratio Lower Upper

75 100

155 81.1 39.9 119.6

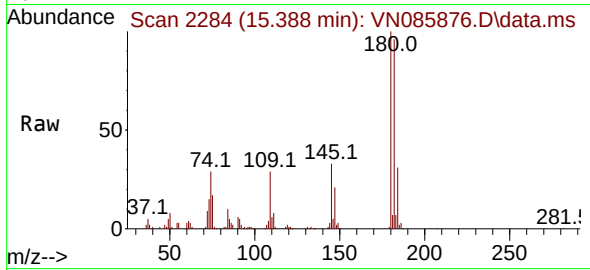
157 102.9 49.9 149.7





#93
1,2,4-Trichlorobenzene
Concen: 43.206 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

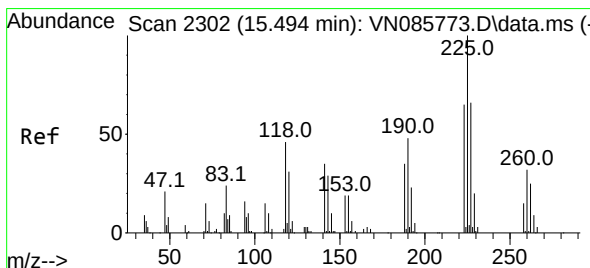
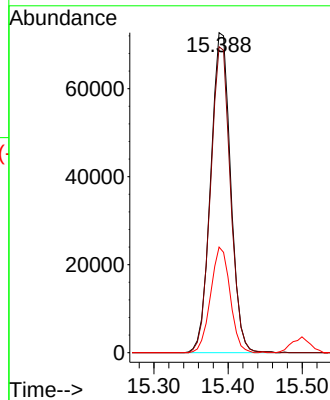
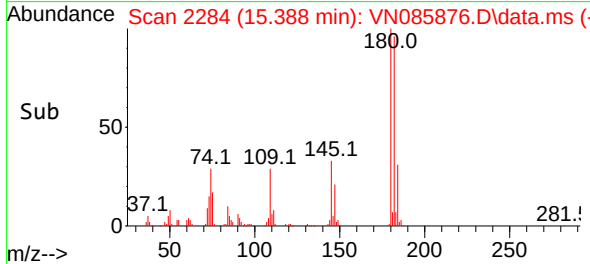
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:180 Resp: 135659
Ion Ratio Lower Upper
180 100
182 95.5 47.3 141.9
145 32.3 16.2 48.5

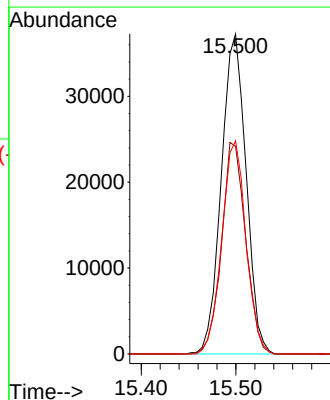
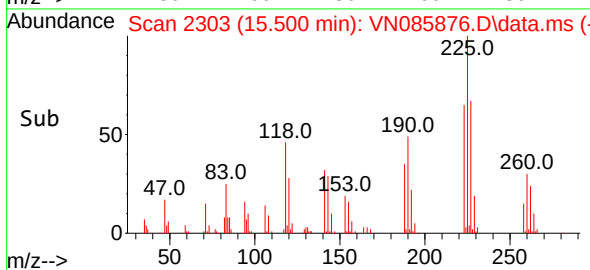
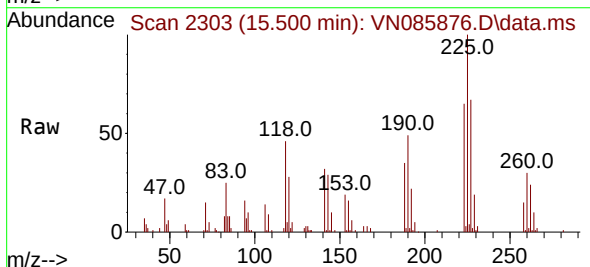
Manual Integrations
APPROVED

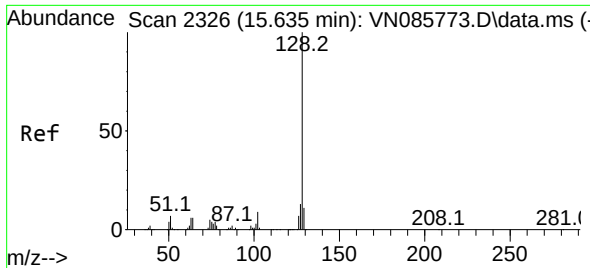
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#94
Hexachlorobutadiene
Concen: 35.444 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

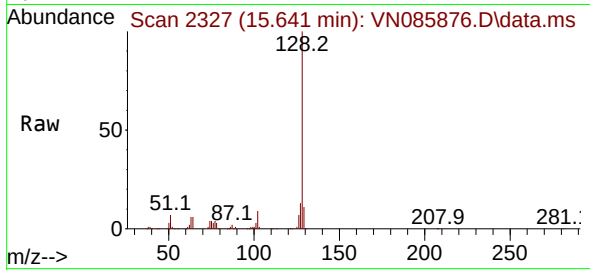
Tgt Ion:225 Resp: 67633
Ion Ratio Lower Upper
225 100
223 64.5 31.9 95.5
227 65.0 32.2 96.6





#95
Naphthalene
Concen: 47.994 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09

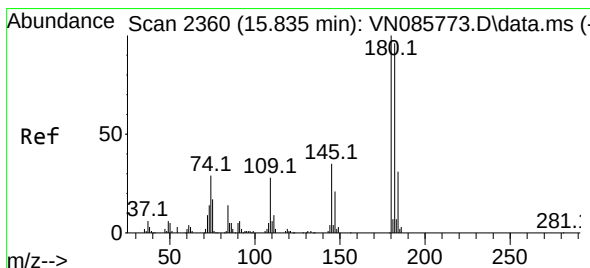
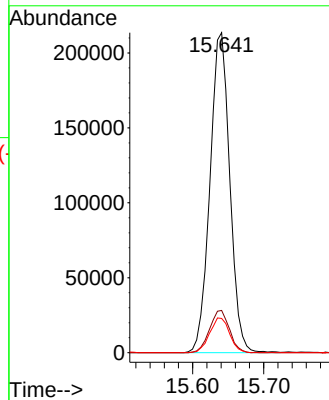
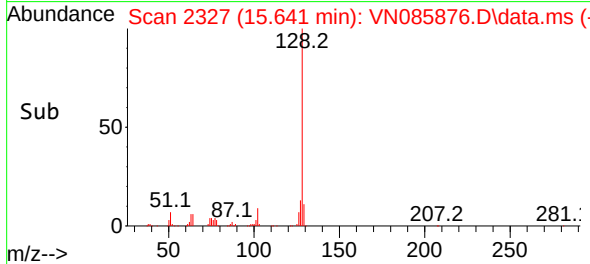
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MS



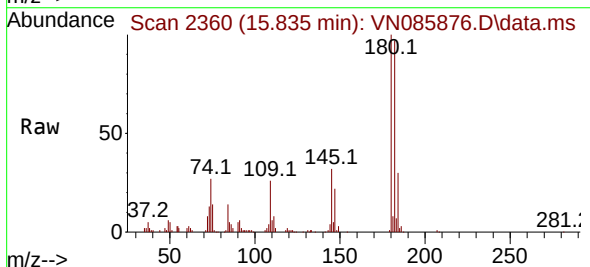
Tgt Ion:128 Resp: 413709
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.2
129 10.9 8.7 13.1

Manual Integrations
APPROVED

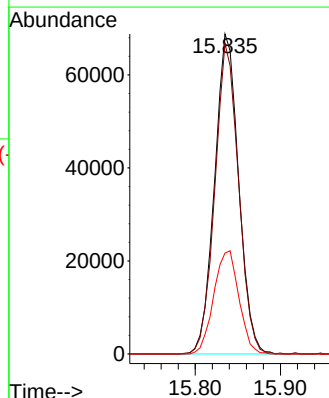
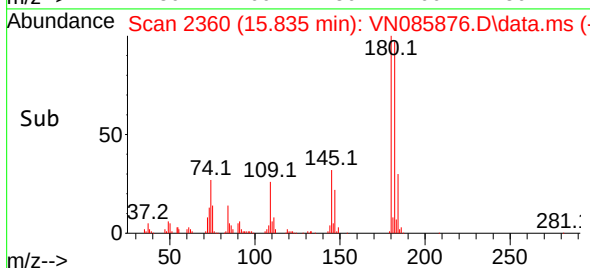
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.802 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085876.D
Acq: 26 Feb 2025 17:09



Tgt Ion:180 Resp: 134918
Ion Ratio Lower Upper
180 100
182 95.7 47.3 141.8
145 33.7 16.9 50.6



Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MSD		SDG No.:	Q1421	
Lab Sample ID:	Q1421-06MSD		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085877.D	1		02/26/25 17:33	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	42.2		0.21	5.00	ug/L
74-87-3	Chloromethane	43.7		0.35	5.00	ug/L
75-01-4	Vinyl Chloride	43.7		0.34	5.00	ug/L
74-83-9	Bromomethane	43.1		1.40	5.00	ug/L
75-00-3	Chloroethane	42.5		0.56	5.00	ug/L
75-69-4	Trichlorofluoromethane	43.0		0.34	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	43.2		0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	45.4		0.26	5.00	ug/L
67-64-1	Acetone	280		1.40	25.0	ug/L
75-15-0	Carbon Disulfide	39.4		0.32	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	54.4		0.16	5.00	ug/L
79-20-9	Methyl Acetate	51.6		0.60	5.00	ug/L
75-09-2	Methylene Chloride	49.3		0.32	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	44.8		0.25	5.00	ug/L
75-34-3	1,1-Dichloroethane	47.7		0.23	5.00	ug/L
110-82-7	Cyclohexane	40.3		1.60	5.00	ug/L
78-93-3	2-Butanone	270		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	44.4		0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	48.2		0.25	5.00	ug/L
74-97-5	Bromochloromethane	53.3		0.18	5.00	ug/L
67-66-3	Chloroform	48.0		0.26	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	45.3		0.19	5.00	ug/L
108-87-2	Methylcyclohexane	44.8		0.19	5.00	ug/L
71-43-2	Benzene	47.7		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	46.8		0.24	5.00	ug/L
79-01-6	Trichloroethene	45.1		0.32	5.00	ug/L
78-87-5	1,2-Dichloropropane	49.9		0.19	5.00	ug/L
75-27-4	Bromodichloromethane	48.7		0.24	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.75	25.0	ug/L
108-88-3	Toluene	50.1		0.18	5.00	ug/L

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	02/24/25	
Project:	RFP 905			Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MSD			SDG No.:	Q1421	
Lab Sample ID:	Q1421-06MSD			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	SPLP VOA	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085877.D	1		02/26/25 17:33	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	51.9		0.21	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	50.5		0.18	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	50.8		0.21	5.00	ug/L
591-78-6	2-Hexanone	290		1.10	25.0	ug/L
124-48-1	Dibromochloromethane	52.4		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	52.0		0.16	5.00	ug/L
127-18-4	Tetrachloroethene	47.4		0.25	5.00	ug/L
108-90-7	Chlorobenzene	47.0		0.13	5.00	ug/L
100-41-4	Ethyl Benzene	49.9		0.16	5.00	ug/L
179601-23-1	m/p-Xylenes	100		0.31	10.0	ug/L
95-47-6	o-Xylene	52.4		0.14	5.00	ug/L
100-42-5	Styrene	49.0		0.16	5.00	ug/L
75-25-2	Bromoform	52.5		0.21	5.00	ug/L
98-82-8	Isopropylbenzene	48.9		0.13	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	47.9		0.27	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	46.1		0.24	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	45.0		0.27	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	47.0		0.19	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	46.2		0.46	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.1		0.42	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	46.9		0.51	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	275000	8.224			
540-36-3	1,4-Difluorobenzene	457000	9.1			
3114-55-4	Chlorobenzene-d5	401000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.788			

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	SPLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085877.D	1		02/26/25 17:33	VN022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085877.D
 Acq On : 26 Feb 2025 17:33
 Operator : JC\MD
 Sample : Q1421-06MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-CLAY-CF01-01MSD

Quant Time: Feb 26 23:10:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	275367	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	457023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	400922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	196698	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	170610	47.789	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.580%		
35) Dibromofluoromethane	8.165	113	153710	51.399	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.800%		
50) Toluene-d8	10.565	98	549151	50.471	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.940%		
62) 4-Bromofluorobenzene	12.847	95	192469	53.689	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	107.380%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	158009	42.186	ug/l	98
3) Chloromethane	2.359	50	164109	43.664	ug/l	99
4) Vinyl Chloride	2.512	62	174070	43.742	ug/l	98
5) Bromomethane	2.947	94	109718	43.119	ug/l	97
6) Chloroethane	3.118	64	112021	42.498	ug/l	98
7) Trichlorofluoromethane	3.495	101	247664	42.985	ug/l	99
8) Diethyl Ether	3.959	74	95806	51.392	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	143849	43.192	ug/l	99
10) Methyl Iodide	4.589	142	200812	48.915	ug/l	99
11) Tert butyl alcohol	5.518	59	113953	259.521	ug/l	100
12) 1,1-Dichloroethene	4.342	96	137005	45.369	ug/l	98
13) Acrolein	4.177	56	144289	221.594	ug/l	99
14) Allyl chloride	5.024	41	181523	45.784	ug/l	94
15) Acrylonitrile	5.712	53	375587	263.118	ug/l	100
16) Acetone	4.424	43	321913	284.973	ug/l	96
17) Carbon Disulfide	4.712	76	352647	39.403	ug/l	99
18) Methyl Acetate	5.018	43	200414	51.582	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	487845	54.365	ug/l	98
20) Methylene Chloride	5.271	84	178935	49.256	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	145652	44.794	ug/l	94
22) Diisopropyl ether	6.671	45	470855	52.558	ug/l	97
23) Vinyl Acetate	6.600	43	1540456	251.132	ug/l	99
24) 1,1-Dichloroethane	6.571	63	290560	47.711	ug/l	99
25) 2-Butanone	7.477	43	445696	268.187	ug/l	98
26) 2,2-Dichloropropane	7.488	77	219066	40.453	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	181839	48.231	ug/l	98
28) Bromochloromethane	7.812	49	133442	53.311	ug/l	98
29) Tetrahydrofuran	7.835	42	294659	274.573	ug/l	99
30) Chloroform	7.965	83	305269	47.966	ug/l	99
31) Cyclohexane	8.253	56	205643	40.329	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	256231	45.265	ug/l	98
36) 1,1-Dichloropropene	8.371	75	191621	45.274	ug/l	99
37) Ethyl Acetate	7.559	43	177805	51.049	ug/l	98
38) Carbon Tetrachloride	8.359	117	223297	44.402	ug/l	96
39) Methylcyclohexane	9.600	83	186159	44.772	ug/l	98
40) Benzene	8.606	78	647177	47.709	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
 Data File : VN085877.D
 Acq On : 26 Feb 2025 17:33
 Operator : JC\MD
 Sample : Q1421-06MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 26 23:10:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	96310	51.725	ug/l	93
42) 1,2-Dichloroethane	8.665	62	206974	46.842	ug/l	98
43) Isopropyl Acetate	8.682	43	300996	49.233	ug/l	97
44) Trichloroethene	9.347	130	150087	45.062	ug/l	96
45) 1,2-Dichloropropane	9.618	63	163473	49.925	ug/l	97
46) Dibromomethane	9.706	93	113805	49.274	ug/l	100
47) Bromodichloromethane	9.882	83	240797	48.731	ug/l	100
48) Methyl methacrylate	9.676	41	139987	54.118	ug/l	96
49) 1,4-Dioxane	9.694	88	56400	1146.587	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	926967	276.038	ug/l	98
52) Toluene	10.629	92	398144	50.070	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	236982	51.865	ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	253027	50.500	ug/l	94
55) 1,1,2-Trichloroethane	11.012	97	160579	50.791	ug/l	98
56) Ethyl methacrylate	10.871	69	242620	52.985	ug/l	97
57) 1,3-Dichloropropane	11.159	76	272026	51.543	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	533138	286.849	ug/l	99
59) 2-Hexanone	11.194	43	677650	293.330	ug/l	97
60) Dibromochloromethane	11.359	129	192939	52.409	ug/l	98
61) 1,2-Dibromoethane	11.465	107	155400	52.022	ug/l	99
64) Tetrachloroethene	11.100	164	147352	47.442	ug/l	98
65) Chlorobenzene	11.888	112	431696	47.003	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	160756	48.696	ug/l	99
67) Ethyl Benzene	11.959	91	718249	49.923	ug/l	100
68) m/p-Xylenes	12.070	106	569298	104.173	ug/l	98
69) o-Xylene	12.394	106	271975	52.373	ug/l	100
70) Styrene	12.406	104	472506	48.999	ug/l	100
71) Bromoform	12.576	173	128846	52.526	ug/l #	98
73) Isopropylbenzene	12.694	105	658940	48.898	ug/l	99
74) N-amyl acetate	12.494	43	252799	53.197	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	221941	47.862	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	207118m	47.403	ug/l	
77) Bromobenzene	12.976	156	175211	48.125	ug/l	97
78) n-propylbenzene	13.035	91	764927	49.565	ug/l	99
79) 2-Chlorotoluene	13.123	91	486286	47.160	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	563140	51.301	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	82268	54.937	ug/l	89
82) 4-Chlorotoluene	13.217	91	498020	48.719	ug/l	100
83) tert-Butylbenzene	13.435	119	462735	50.129	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	566970	52.205	ug/l	100
85) sec-Butylbenzene	13.612	105	636060	48.769	ug/l	100
86) p-Isopropyltoluene	13.729	119	534597	45.143	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	314600	46.122	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	314327	44.961	ug/l	99
89) n-Butylbenzene	14.053	91	431407	46.589	ug/l	99
90) Hexachloroethane	14.329	117	109579	44.363	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	308517	47.036	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	39367	46.232	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	150283	48.083	ug/l	100
94) Hexachlorobutadiene	15.500	225	73597	38.745	ug/l	99
95) Naphthalene	15.635	128	464220	54.100	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	147055	46.866	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022625\
Data File : VN085877.D
Acq On : 26 Feb 2025 17:33
Operator : JC\MD
Sample : Q1421-06MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 26 23:10:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

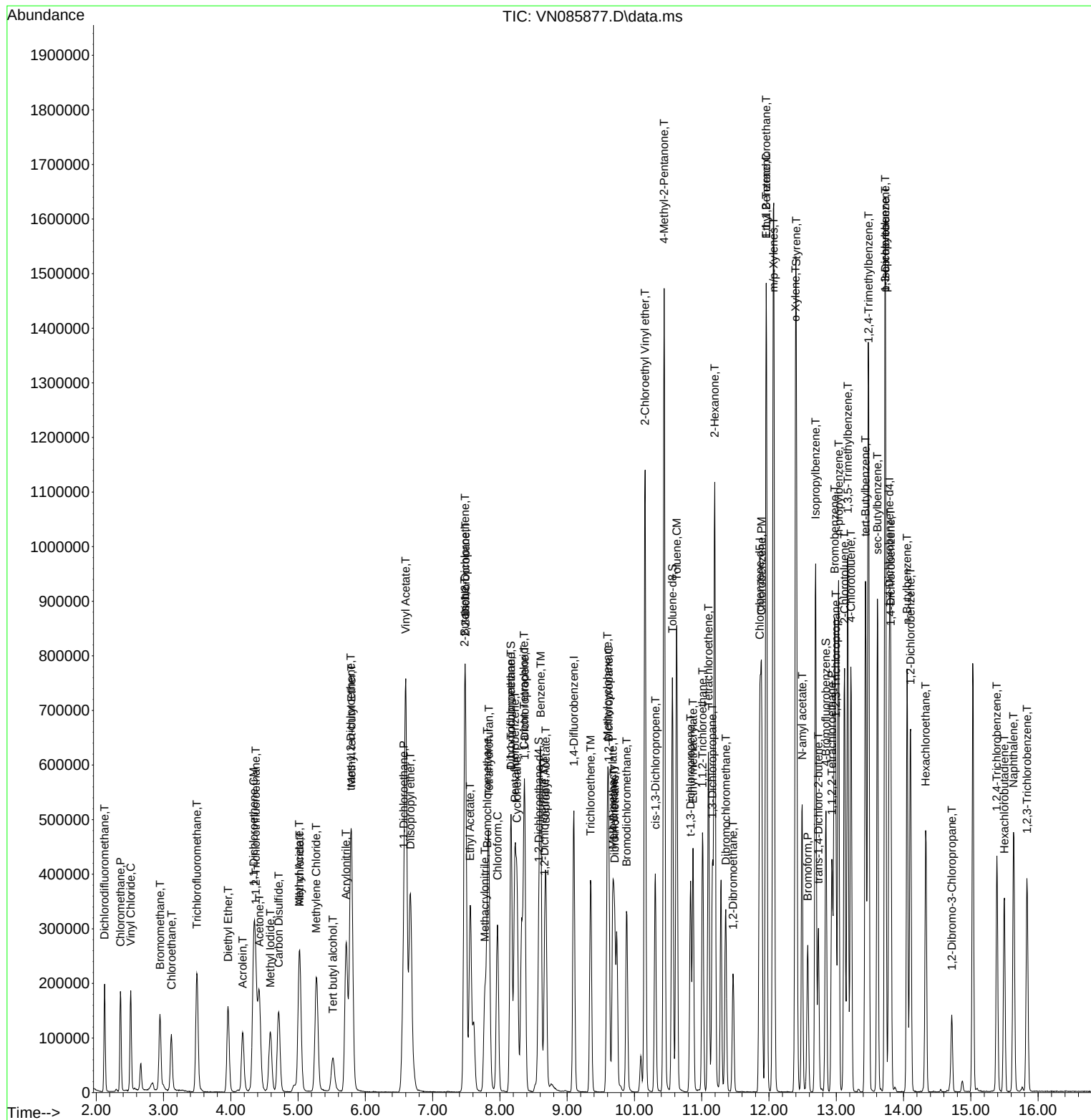
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

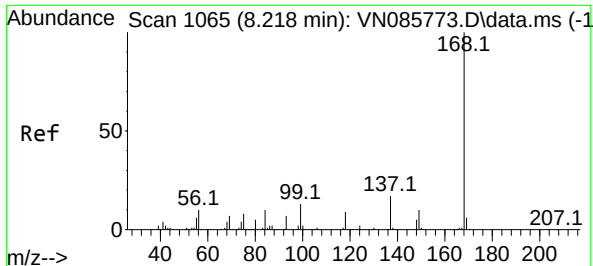
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025





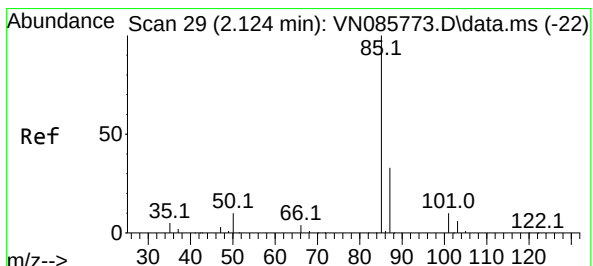
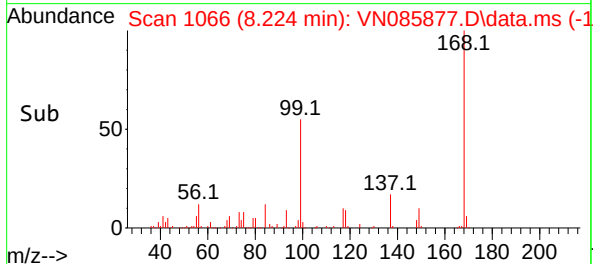
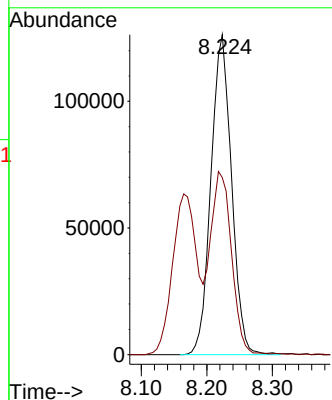
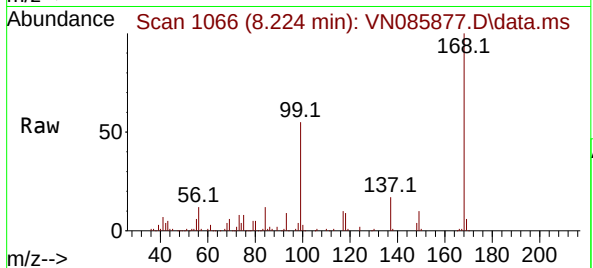
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:168 Resp: 27536
Ion Ratio Lower Upper
168 100
99 55.1 47.9 71.9

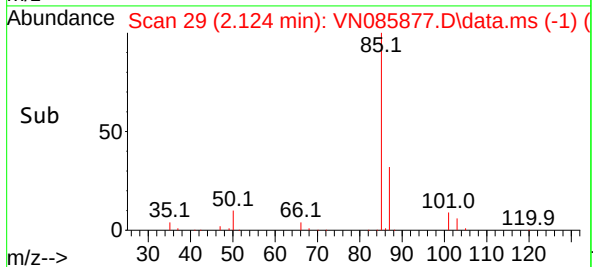
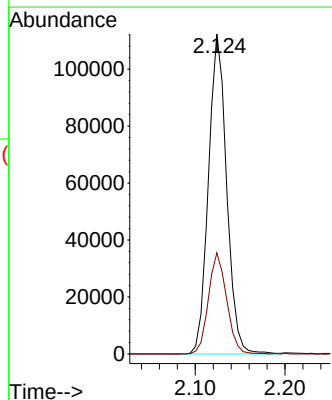
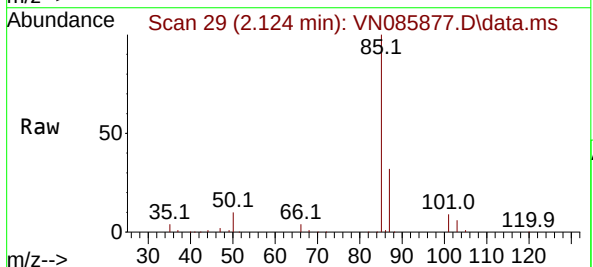
Manual Integrations
APPROVED

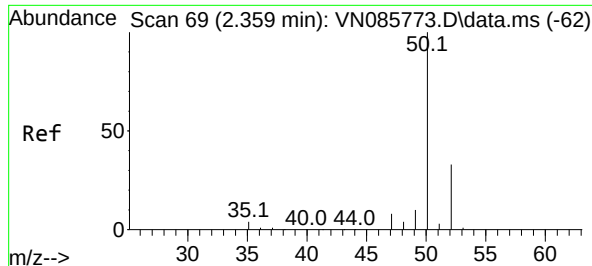
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 42.186 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 85 Resp: 158009
Ion Ratio Lower Upper
85 100
87 31.6 16.4 49.2





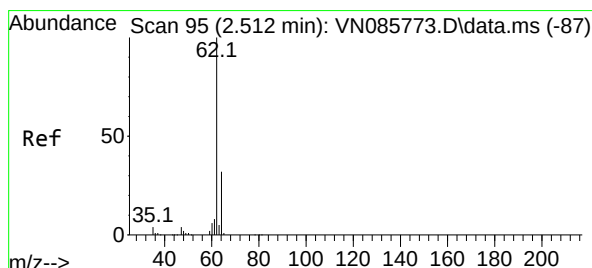
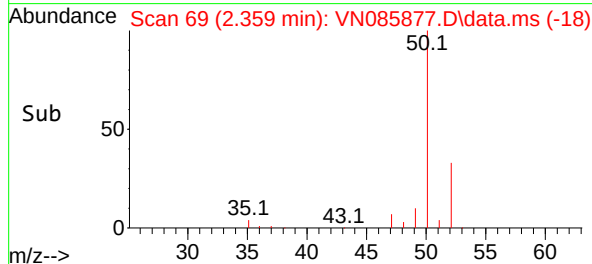
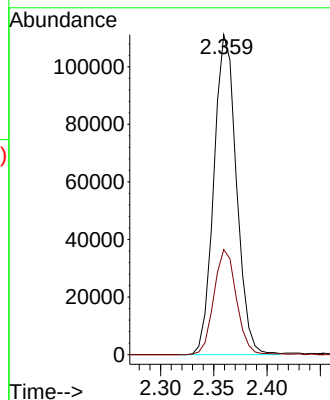
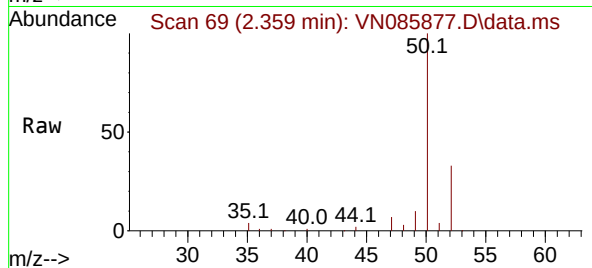
#3
Chloromethane
Concen: 43.664 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion: 50 Resp: 164109
Ion Ratio Lower Upper
50 100
52 32.8 26.7 40.1

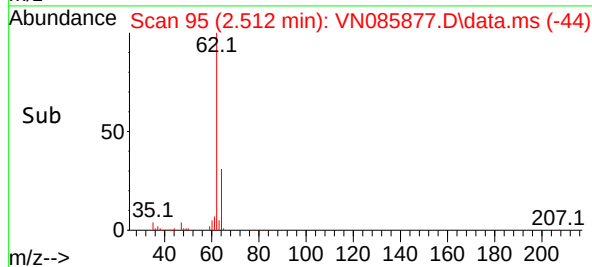
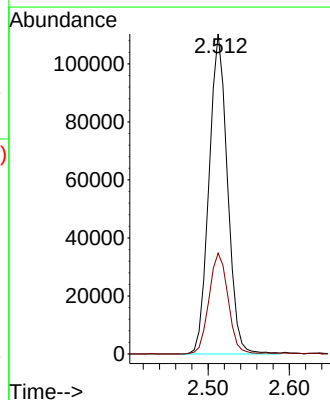
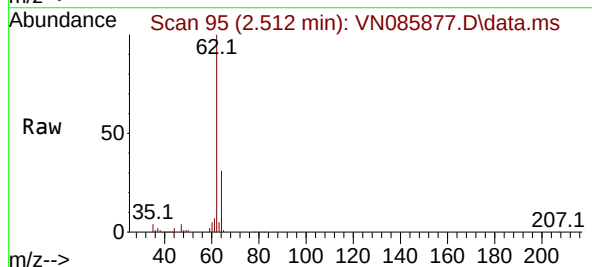
Manual Integrations
APPROVED

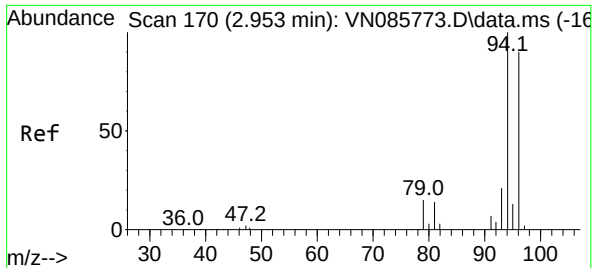
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Vinyl Chloride
Concen: 43.742 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

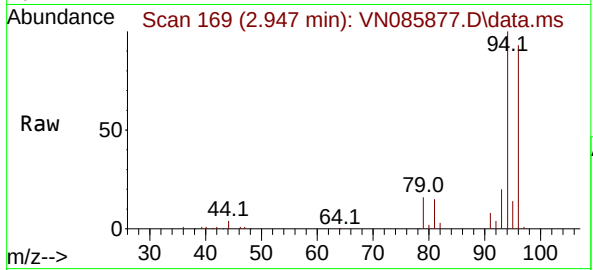
Tgt Ion: 62 Resp: 174070
Ion Ratio Lower Upper
62 100
64 31.5 25.9 38.9





#5
Bromomethane
Concen: 43.119 ug/l
RT: 2.947 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

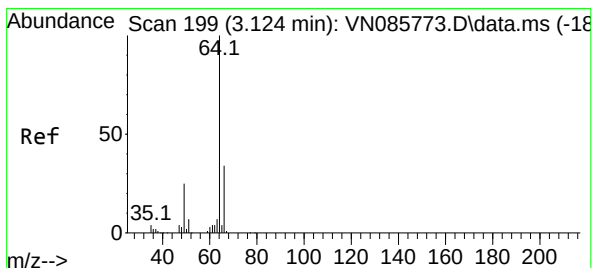
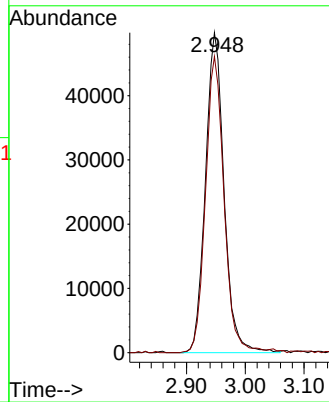
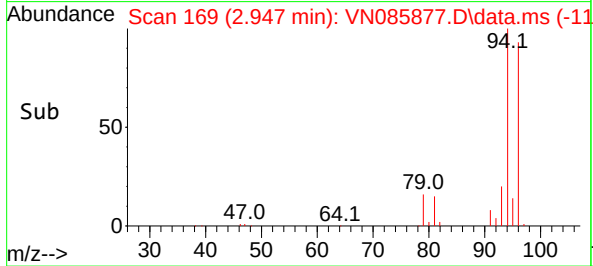
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 94 Resp: 109718
Ion Ratio Lower Upper
94 100
96 92.5 71.7 107.5

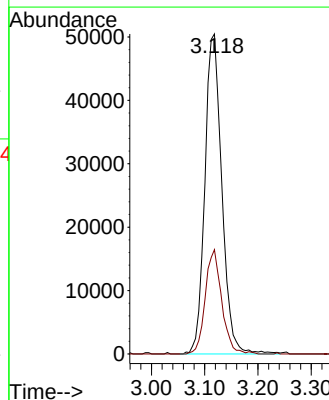
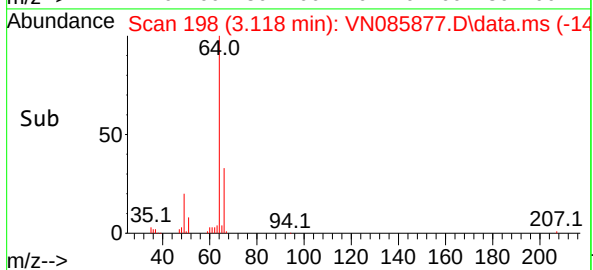
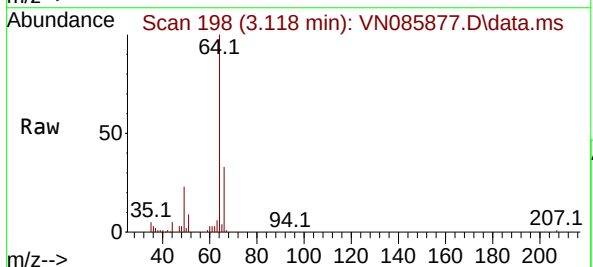
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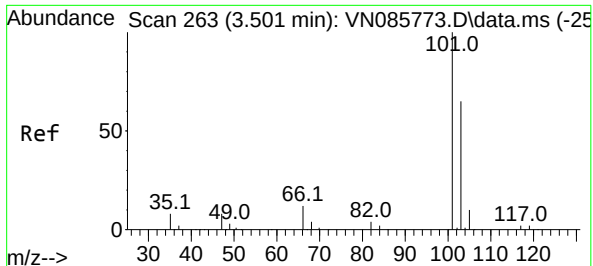
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#6
Chloroethane
Concen: 42.498 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 64 Resp: 112021
Ion Ratio Lower Upper
64 100
66 32.6 27.0 40.6





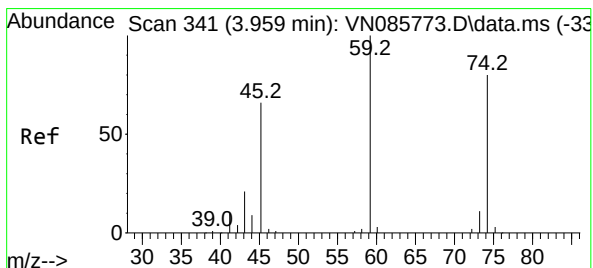
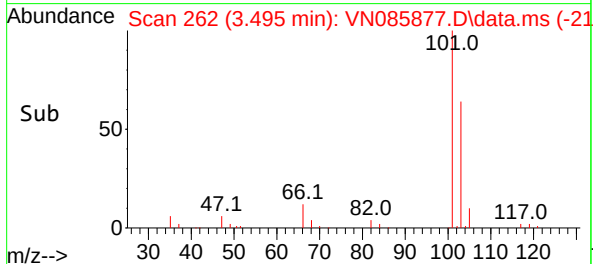
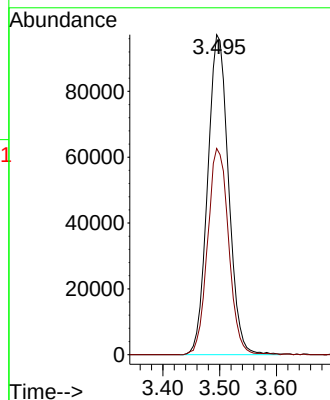
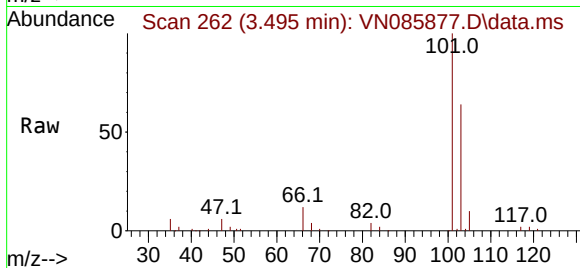
#7
Trichlorofluoromethane
Concen: 42.985 ug/l
RT: 3.495 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:101 Resp: 247664
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.4

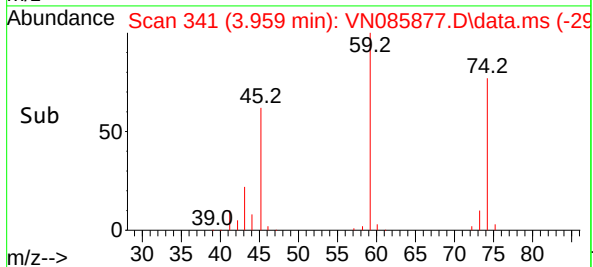
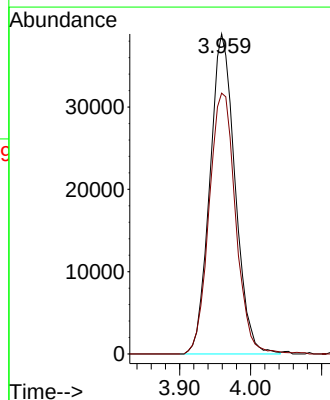
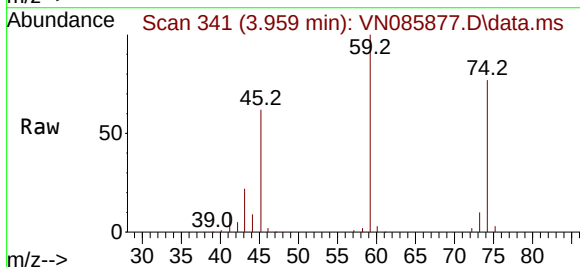
Manual Integrations
APPROVED

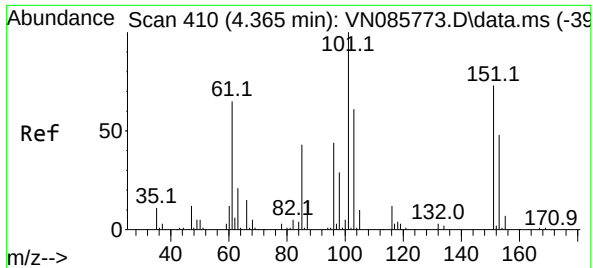
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#8
Diethyl Ether
Concen: 51.392 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 74 Resp: 95806
Ion Ratio Lower Upper
74 100
45 85.6 42.5 127.6





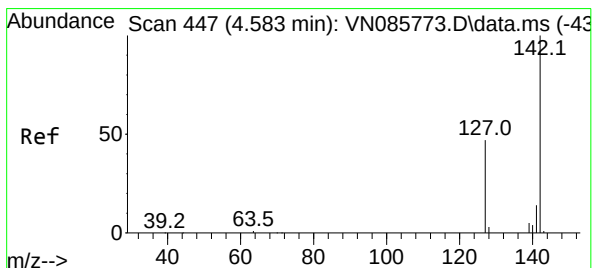
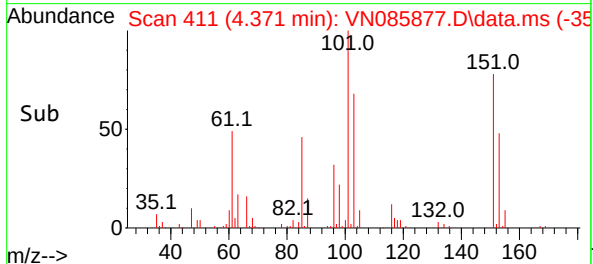
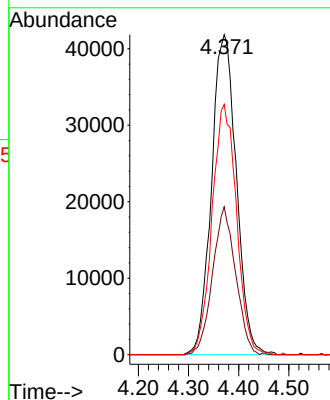
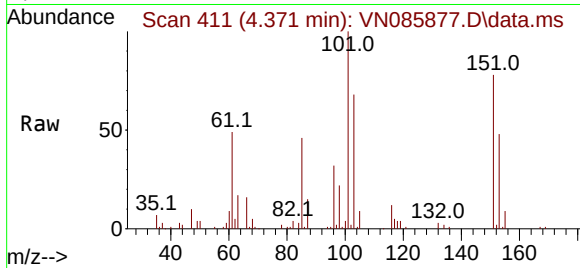
#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.192 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:101 Resp: 143849
Ion Ratio Lower Upper
101 100
85 42.9 35.7 53.5
151 77.0 61.4 92.2

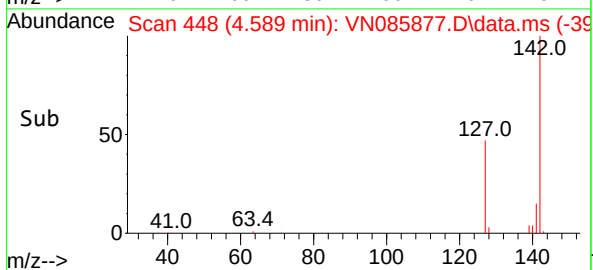
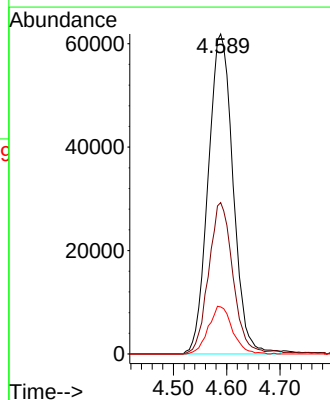
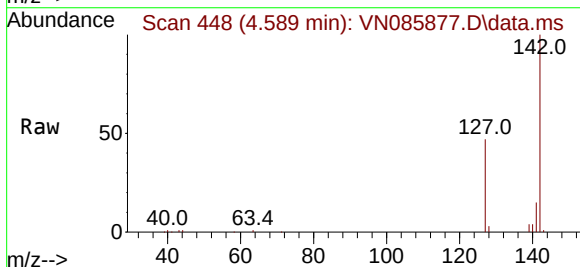
Manual Integrations
APPROVED

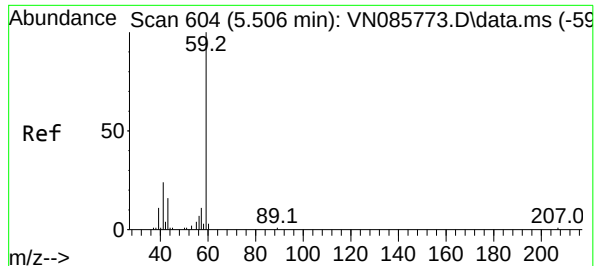
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#10
Methyl Iodide
Concen: 48.915 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion:142 Resp: 200812
Ion Ratio Lower Upper
142 100
127 47.3 37.6 56.4
141 14.7 11.4 17.2





#11

Tert butyl alcohol

Concen: 259.521 ug/l

RT: 5.518 min Scan# 604

Delta R.T. 0.012 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 59 Resp: 11395

Ion Ratio Lower Upper

59 100

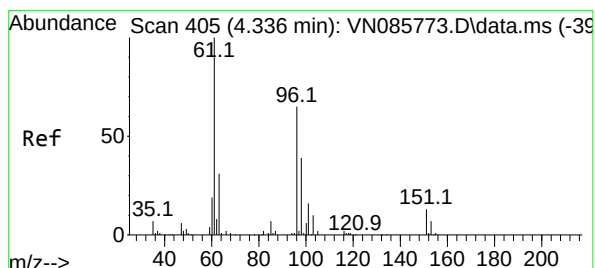
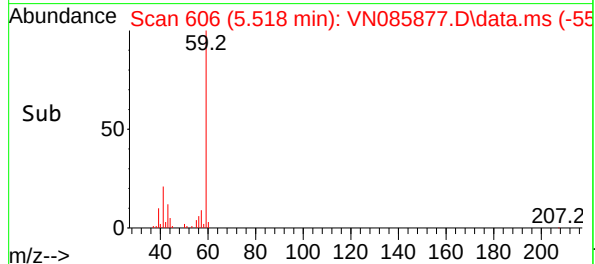
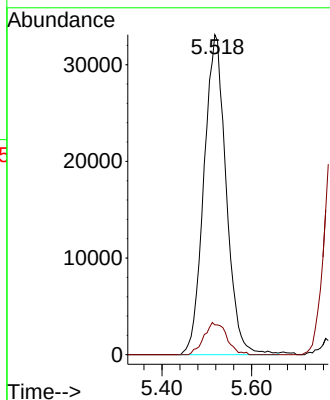
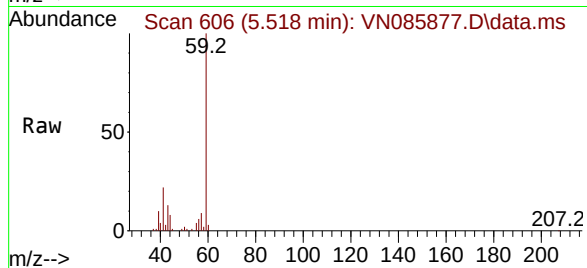
57 10.2 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#12

1,1-Dichloroethene

Concen: 45.369 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

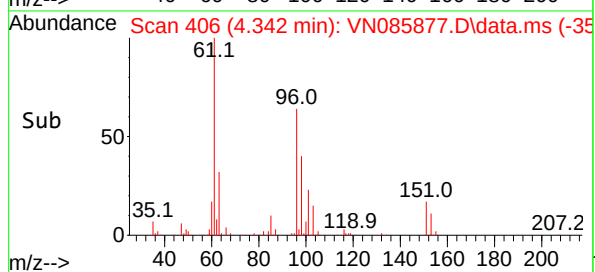
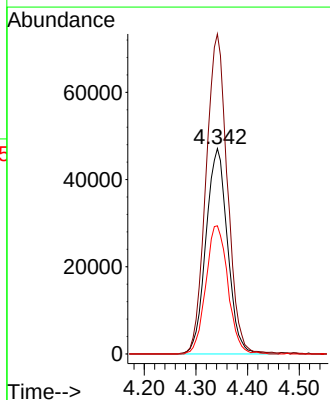
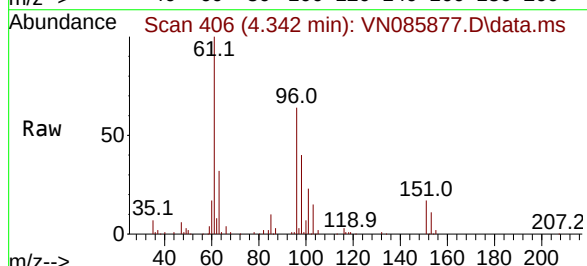
Tgt Ion: 96 Resp: 137005

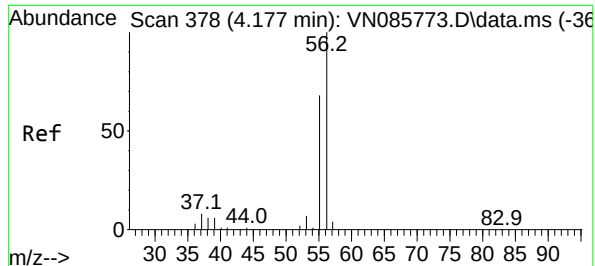
Ion Ratio Lower Upper

96 100

61 155.7 123.3 184.9

98 62.4 48.6 72.8





#13

Acrolein

Concen: 221.594 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 56 Resp: 144289

Ion Ratio Lower Upper

56 100

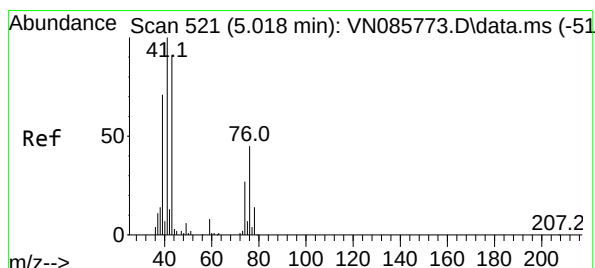
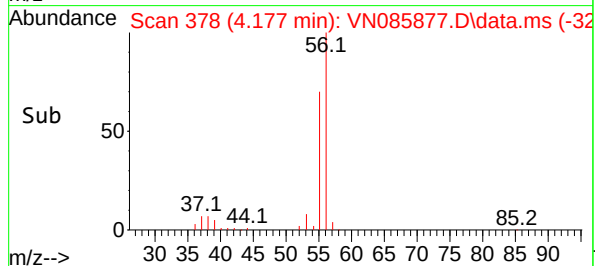
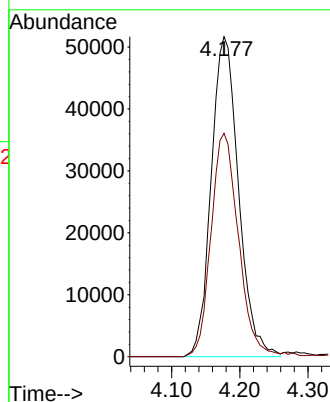
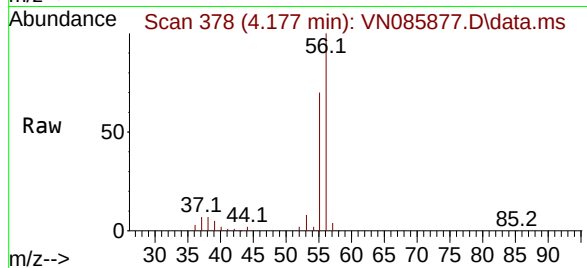
55 69.8 55.3 82.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#14

Allyl chloride

Concen: 45.784 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

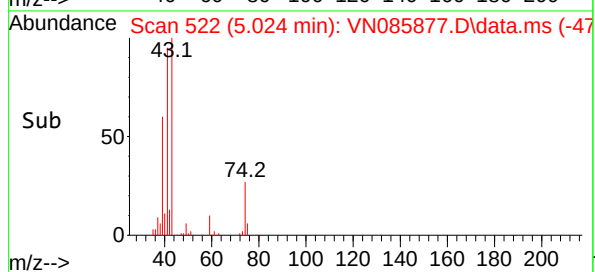
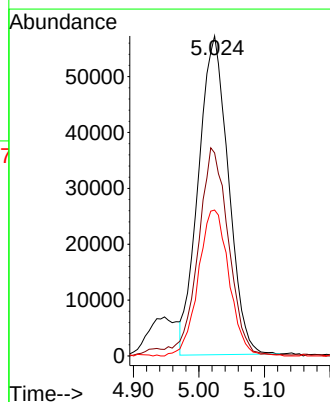
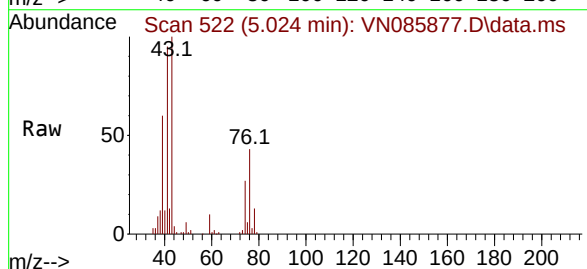
Tgt Ion: 41 Resp: 181523

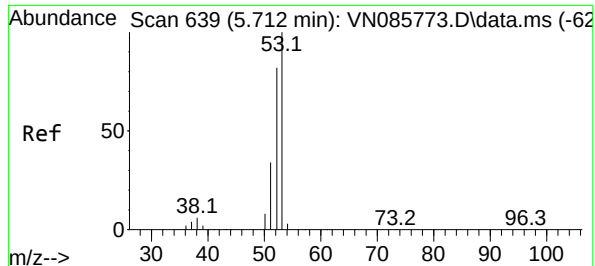
Ion Ratio Lower Upper

41 100

39 65.8 57.4 86.2

76 47.0 36.2 54.2





#15

Acrylonitrile

Concen: 263.118 ug/l

RT: 5.712 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 53 Resp: 37558

Ion Ratio Lower Upper

53 100

52 81.9 65.8 98.6

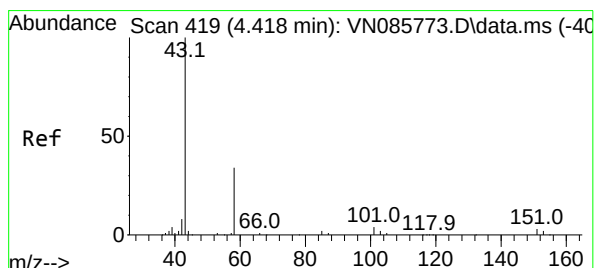
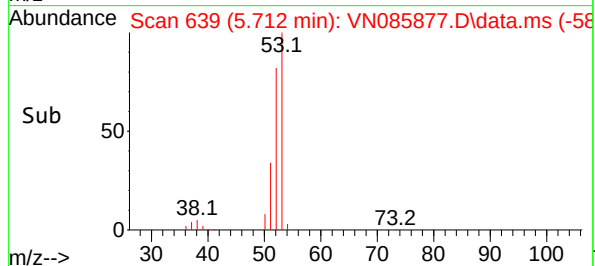
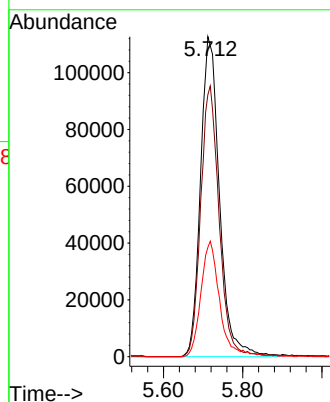
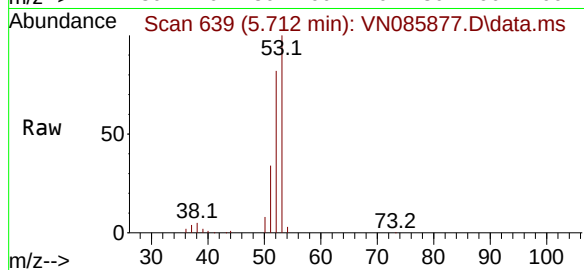
51 35.5 28.6 42.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#16

Acetone

Concen: 284.973 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN085877.D

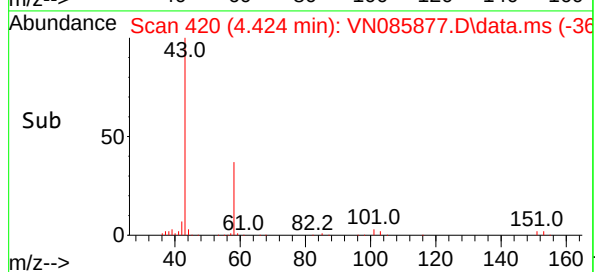
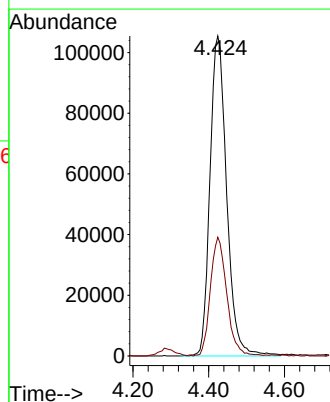
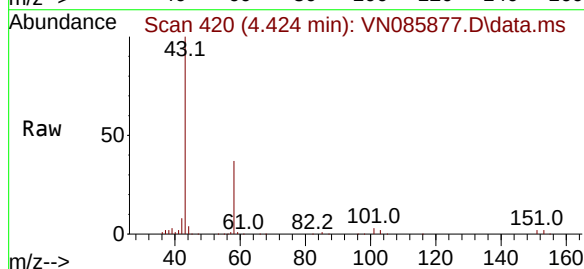
Acq: 26 Feb 2025 17:33

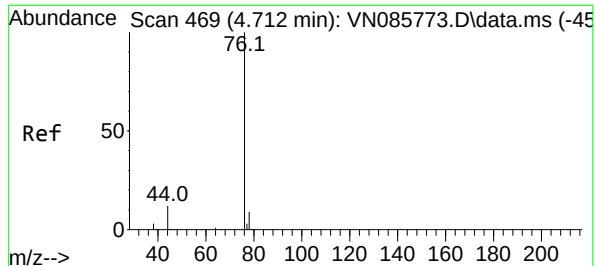
Tgt Ion: 43 Resp: 321913

Ion Ratio Lower Upper

43 100

58 36.9 27.5 41.3





#17

Carbon Disulfide

Concen: 39.403 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 76 Resp: 35264

Ion Ratio Lower Upper

76 100

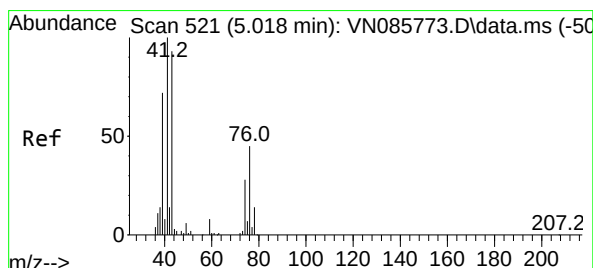
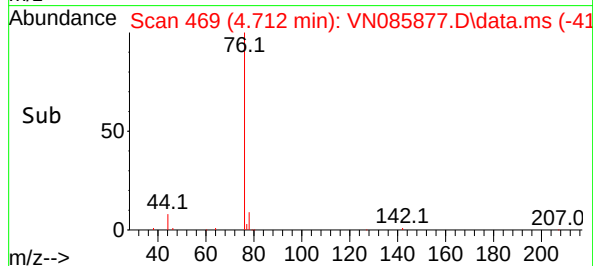
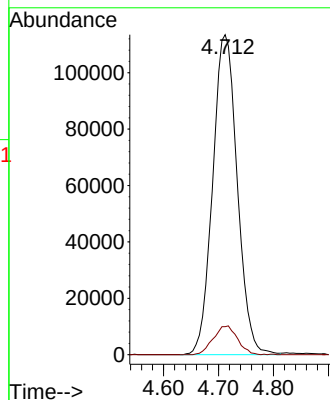
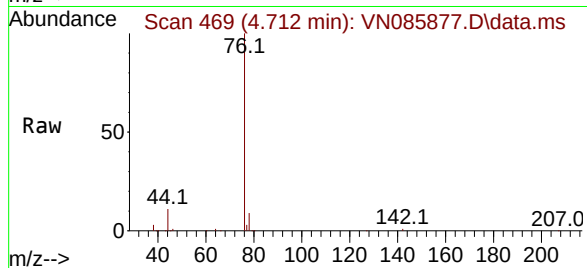
78 8.7 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#18

Methyl Acetate

Concen: 51.582 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085877.D

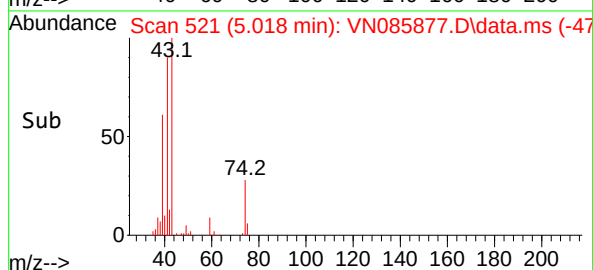
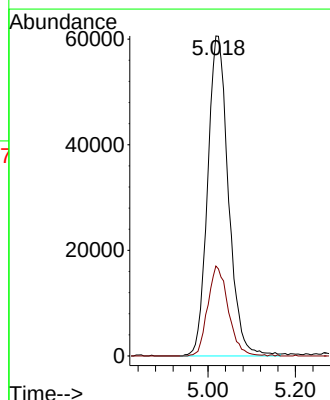
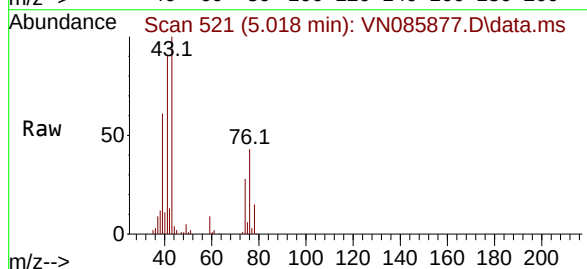
Acq: 26 Feb 2025 17:33

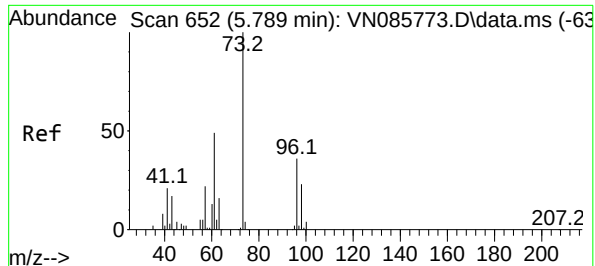
Tgt Ion: 43 Resp: 200414

Ion Ratio Lower Upper

43 100

74 27.7 22.2 33.4





#19

Methyl tert-butyl Ether

Concen: 54.365 ug/l

RT: 5.794 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 73 Resp: 48784

Ion Ratio Lower Upper

73 100

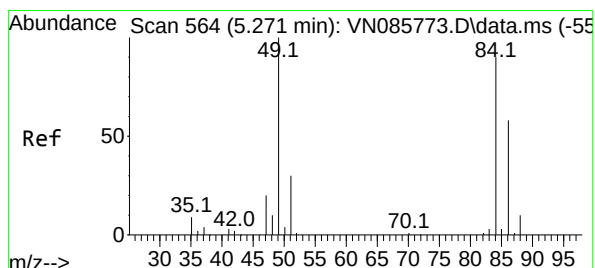
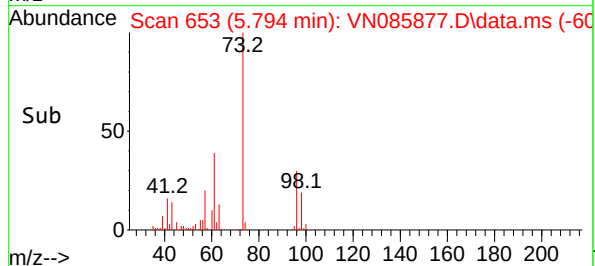
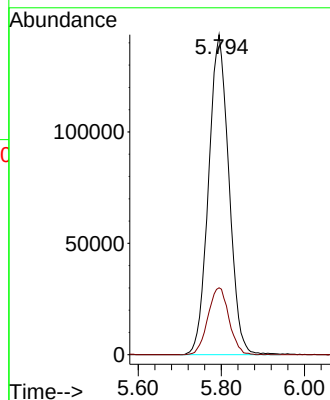
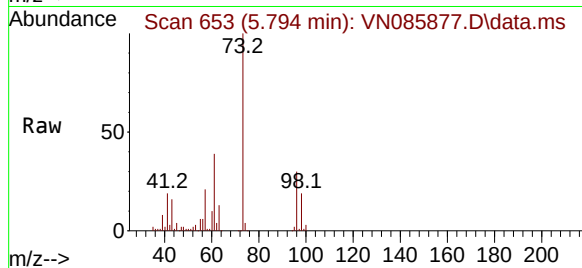
57 20.9 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#20

Methylene Chloride

Concen: 49.256 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Tgt Ion: 84 Resp: 178935

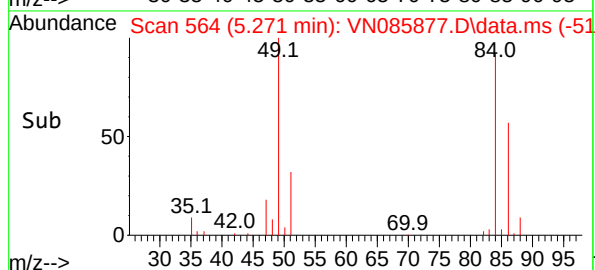
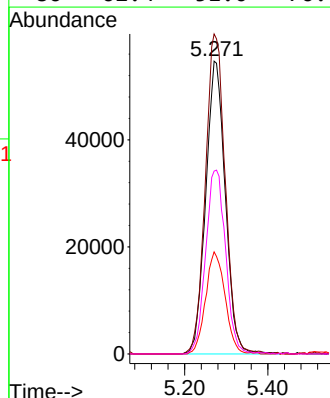
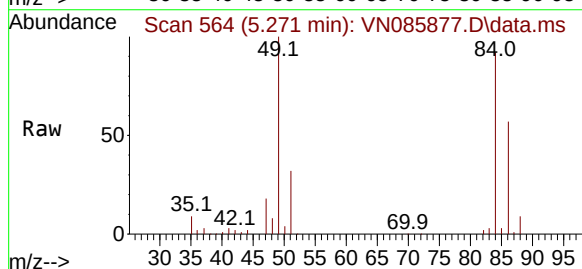
Ion Ratio Lower Upper

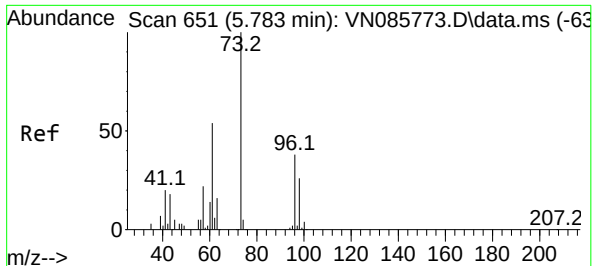
84 100

49 109.3 88.4 132.6

51 34.8 26.6 40.0

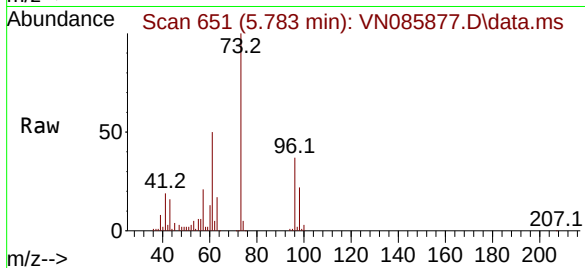
86 62.4 51.0 76.6





#21
trans-1,2-Dichloroethene
Concen: 44.794 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

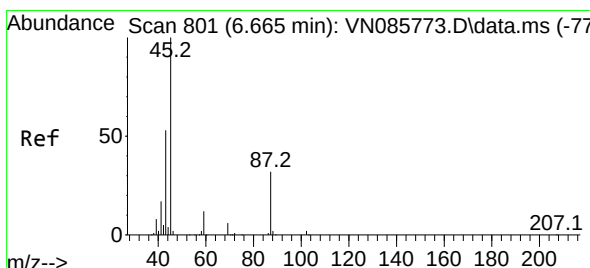
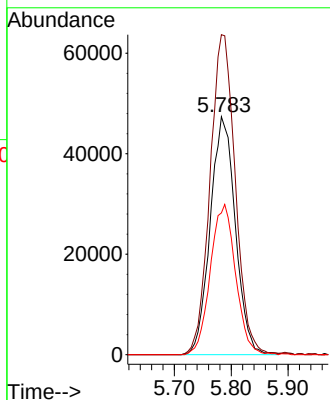
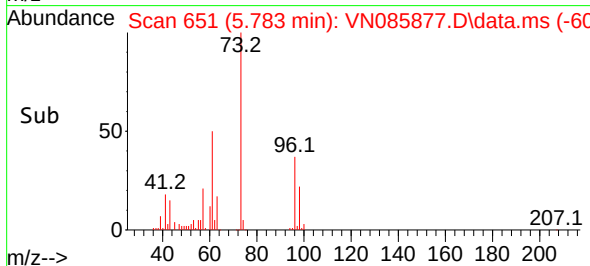
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 96 Resp: 145652
Ion Ratio Lower Upper
96 100
61 134.5 112.6 168.8
98 59.5 53.3 79.9

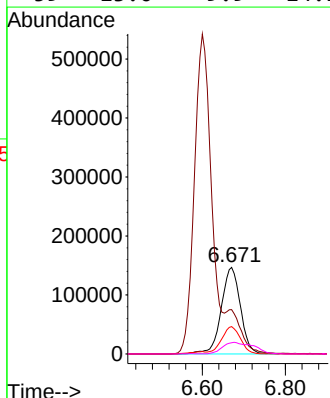
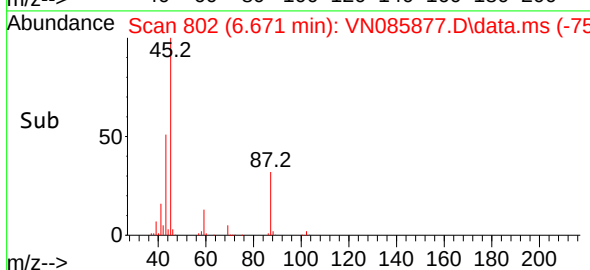
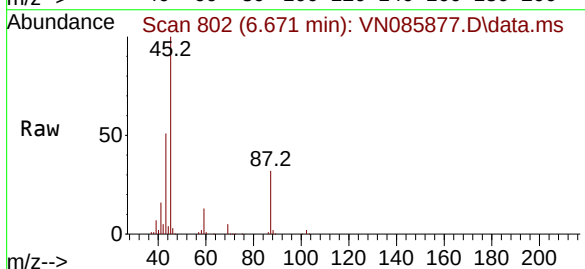
Manual Integrations
APPROVED

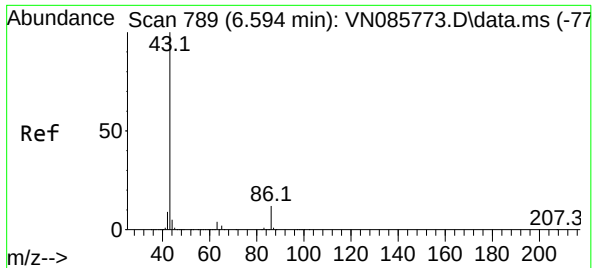
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#22
Diisopropyl ether
Concen: 52.558 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

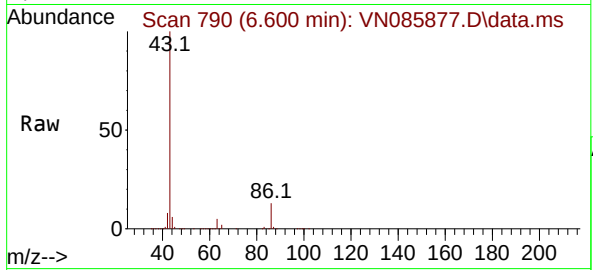
Tgt Ion: 45 Resp: 470855
Ion Ratio Lower Upper
45 100
43 50.5 42.6 64.0
87 31.6 25.8 38.8
59 13.0 9.9 14.9





#23
Vinyl Acetate
Concen: 251.132 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

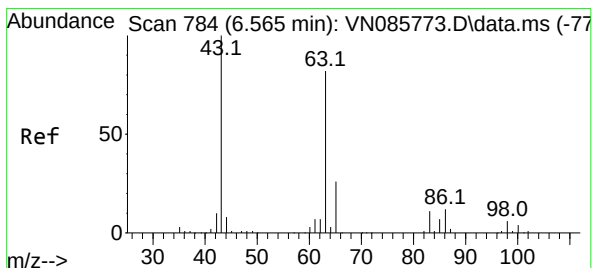
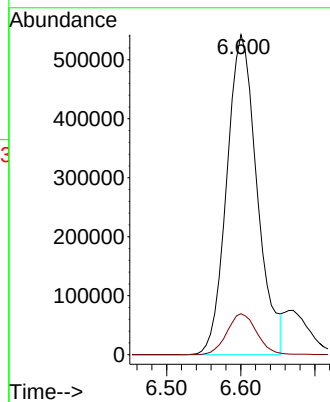
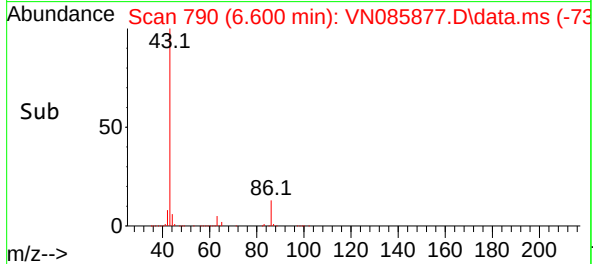
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 43 Resp: 1540450
Ion Ratio Lower Upper
43 100
86 12.8 9.8 14.8

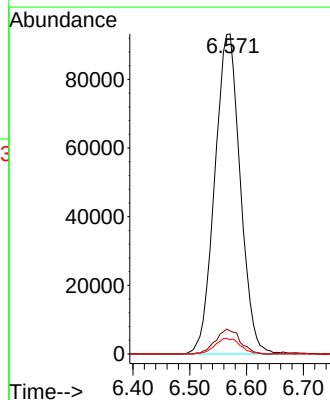
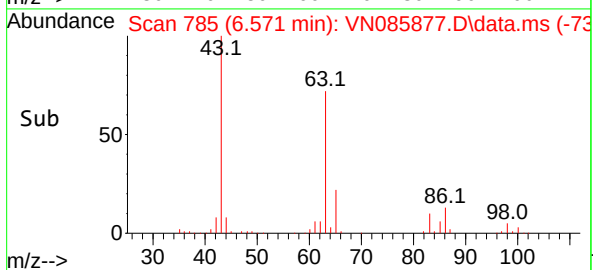
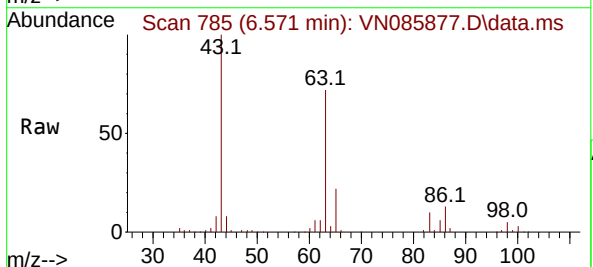
Manual Integrations
APPROVED

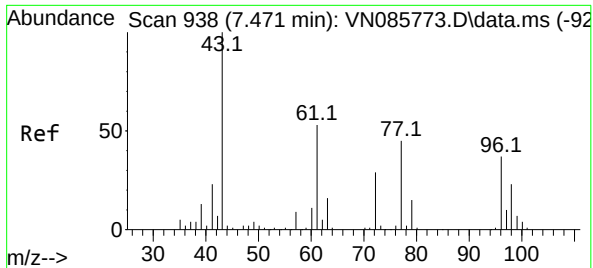
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#24
1,1-Dichloroethane
Concen: 47.711 ug/l
RT: 6.571 min Scan# 785
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

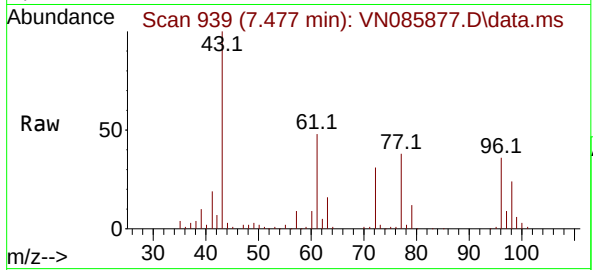
Tgt Ion: 63 Resp: 290560
Ion Ratio Lower Upper
63 100
98 7.2 3.5 10.4
100 4.5 2.4 7.2





#25
2-Butanone
Concen: 268.187 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

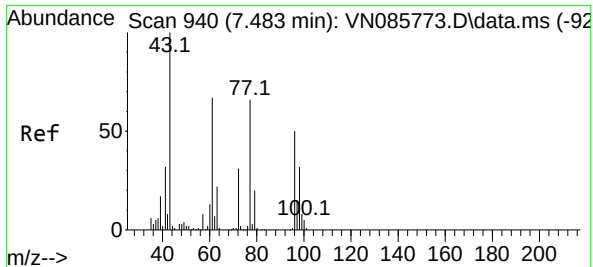
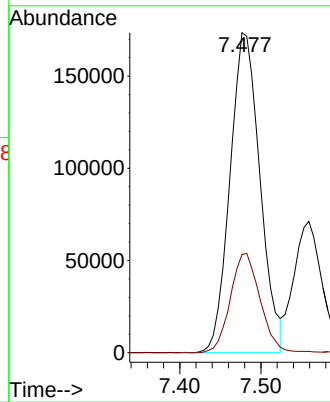
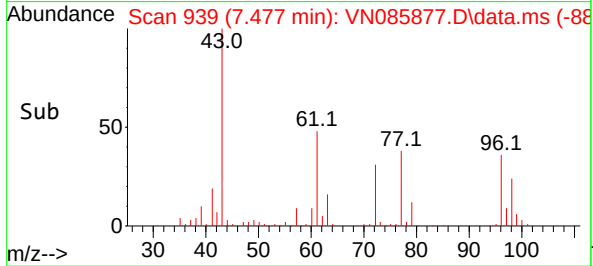
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



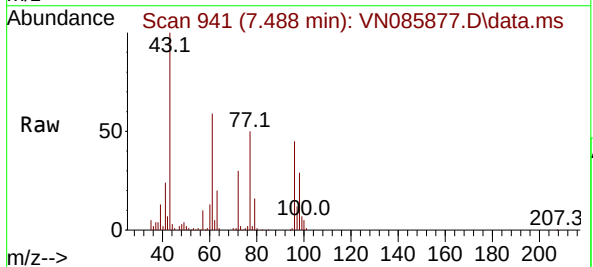
Tgt Ion: 43 Resp: 445690
Ion Ratio Lower Upper
43 100
72 30.7 23.6 35.4

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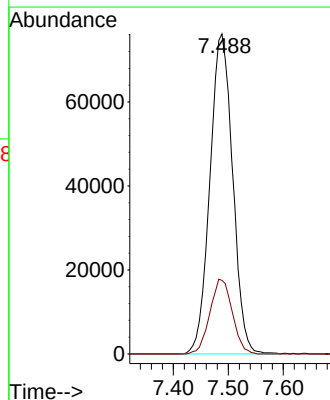
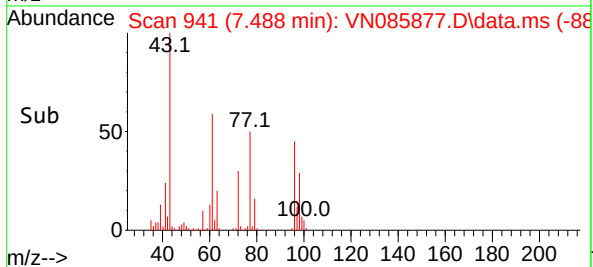
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

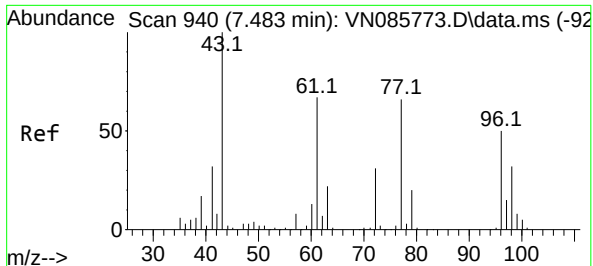


#26
2,2-Dichloropropane
Concen: 40.453 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33



Tgt Ion: 77 Resp: 219066
Ion Ratio Lower Upper
77 100
97 23.0 11.3 33.8





#27

cis-1,2-Dichloroethene

Concen: 48.231 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 96 Resp: 181839

Ion Ratio Lower Upper

96 100

61 136.9 0.0 280.6

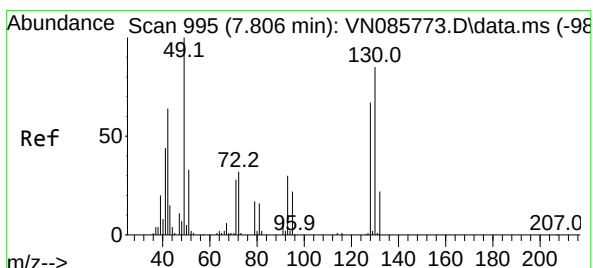
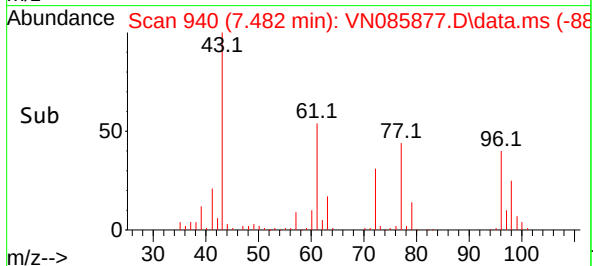
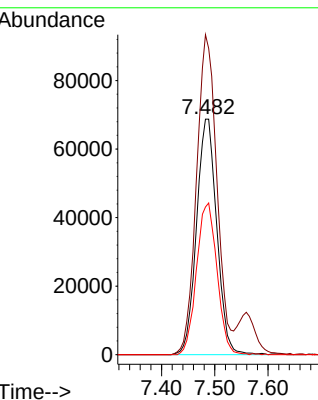
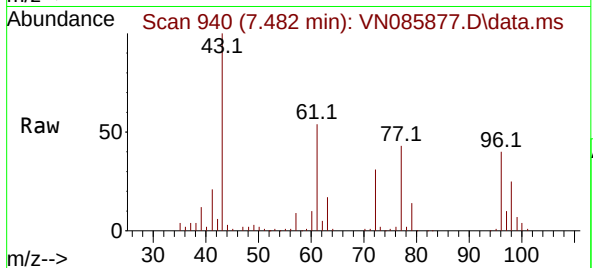
98 65.0 0.0 128.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#28

Bromochloromethane

Concen: 53.311 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

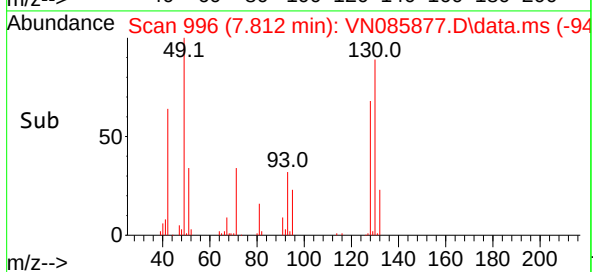
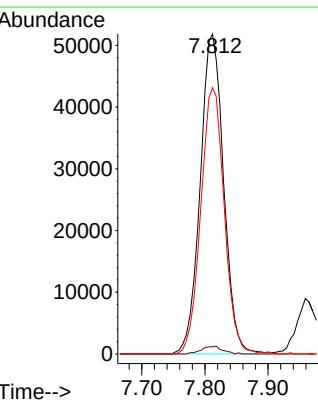
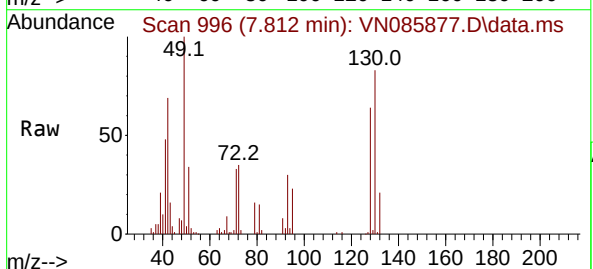
Tgt Ion: 49 Resp: 133442

Ion Ratio Lower Upper

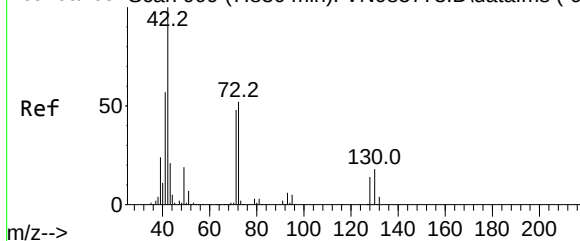
49 100

129 2.2 0.0 3.8

130 83.3 68.0 102.0



Abundance Scan 999 (7.830 min): VN085773.D\data.ms (-98



#29

Tetrahydrofuran

Concen: 274.573 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

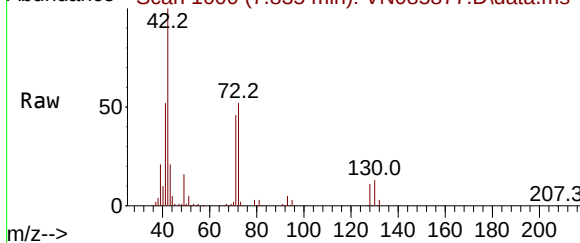
Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Abundance Scan 1000 (7.835 min): VN085877.D\data.ms



Tgt Ion: 42 Resp: 294659

Ion Ratio Lower Upper

42 100

72 50.7 40.0 60.0

71 47.1 37.0 55.4

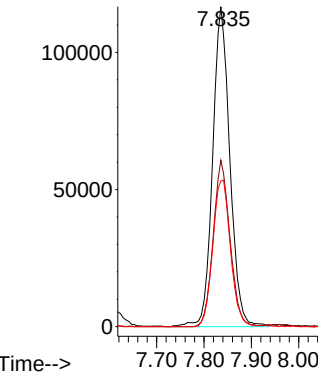
Manual Integrations

APPROVED

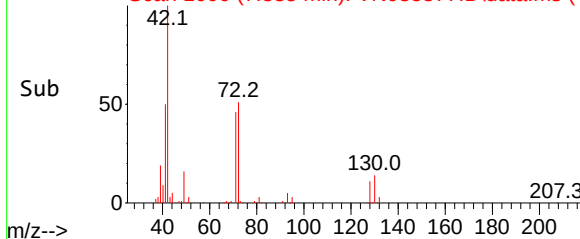
Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025

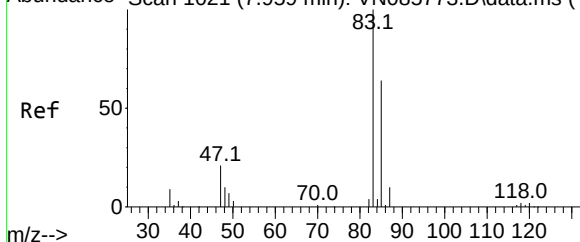
Abundance



Abundance Scan 1000 (7.835 min): VN085877.D\data.ms (-9



Abundance Scan 1021 (7.959 min): VN085773.D\data.ms (-1



#30

Chloroform

Concen: 47.966 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

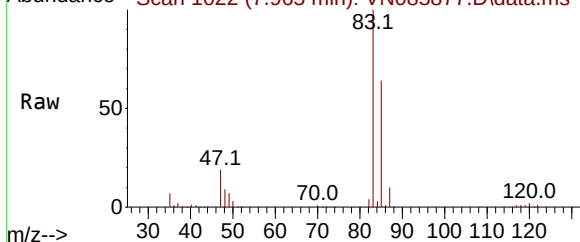
Tgt Ion: 83 Resp: 305269

Ion Ratio Lower Upper

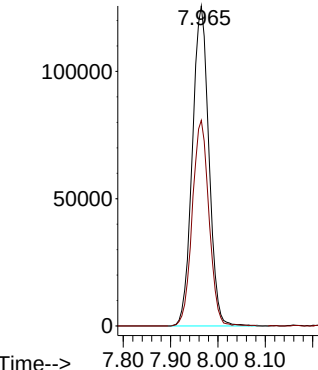
83 100

85 64.2 50.9 76.3

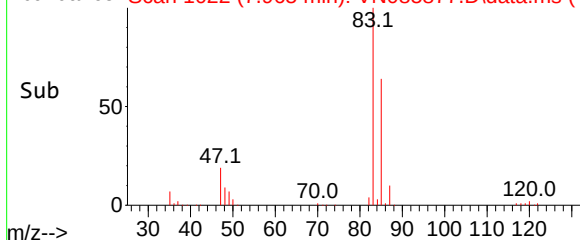
Abundance Scan 1022 (7.965 min): VN085877.D\data.ms

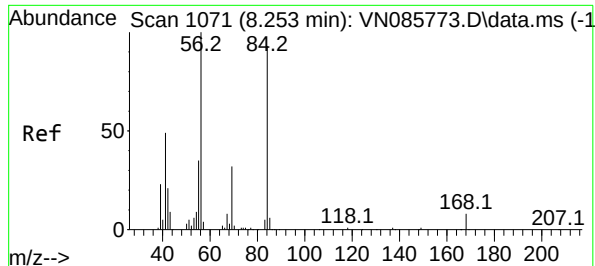


Abundance



Abundance Scan 1022 (7.965 min): VN085877.D\data.ms (-9





#31

Cyclohexane

Concen: 40.329 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 56 Resp: 20564

Ion Ratio Lower Upper

56 100

69 32.8 25.8 38.6

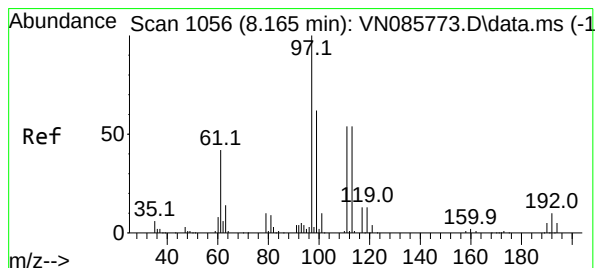
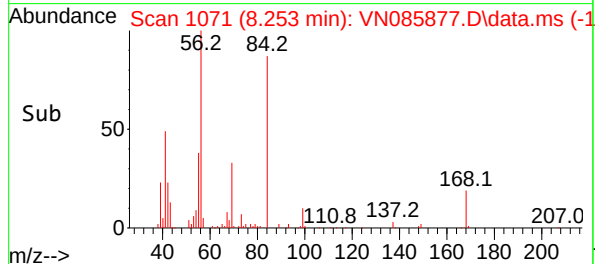
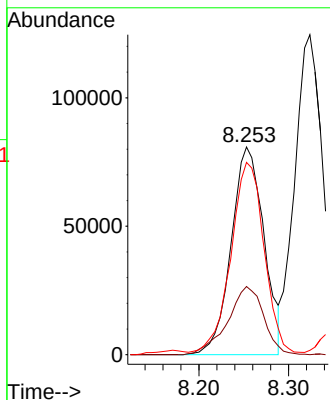
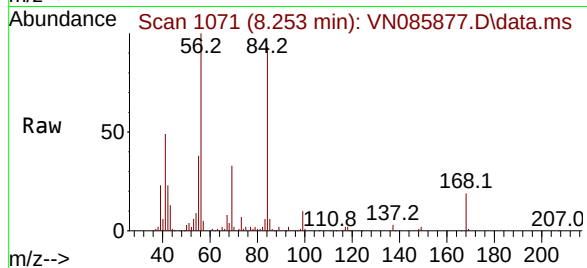
84 90.8 74.5 111.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#32

1,1,1-Trichloroethane

Concen: 45.265 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

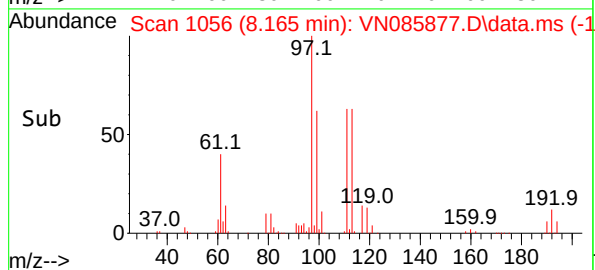
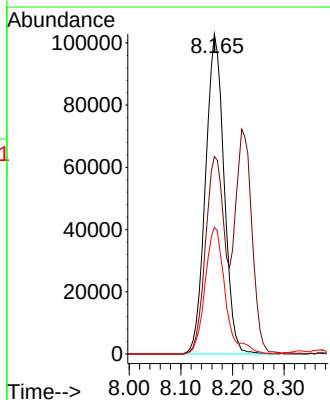
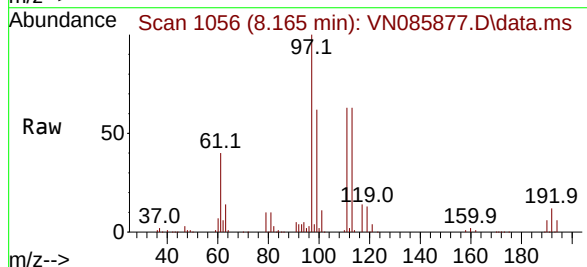
Tgt Ion: 97 Resp: 256231

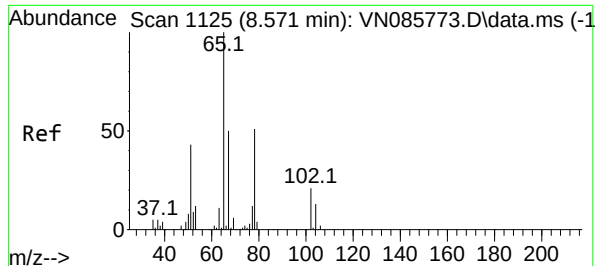
Ion Ratio Lower Upper

97 100

99 64.0 50.4 75.6

61 43.0 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 47.789 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 65 Resp: 170610

Ion Ratio Lower Upper

65 100

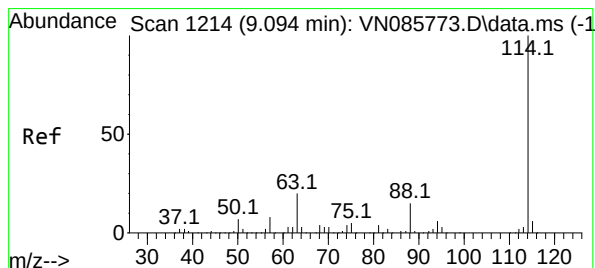
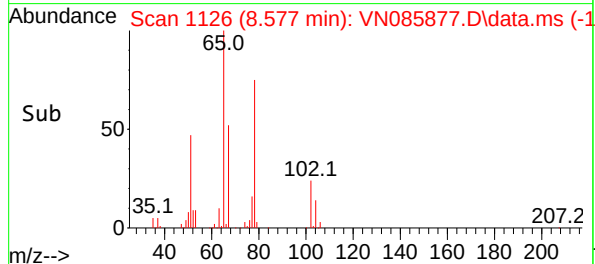
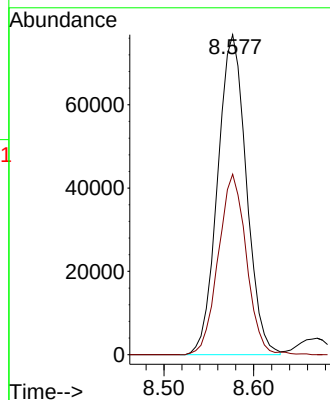
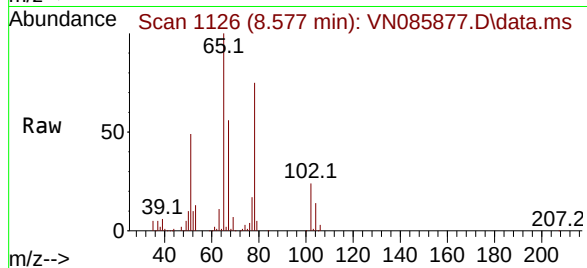
67 55.2 0.0 106.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

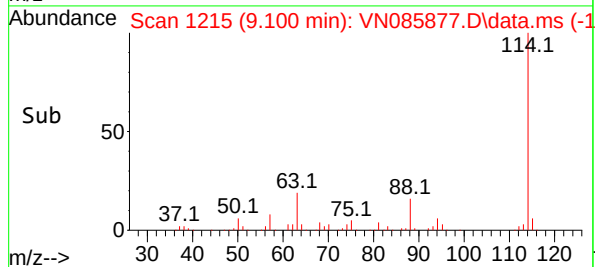
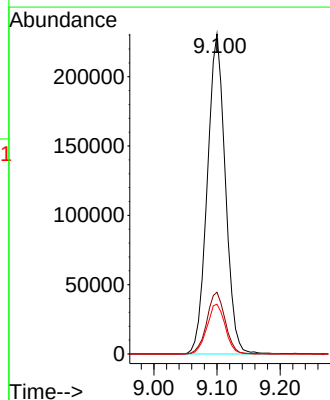
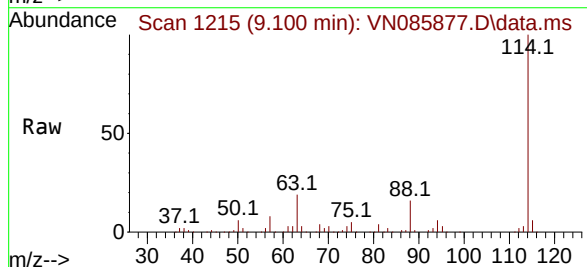
Tgt Ion:114 Resp: 457023

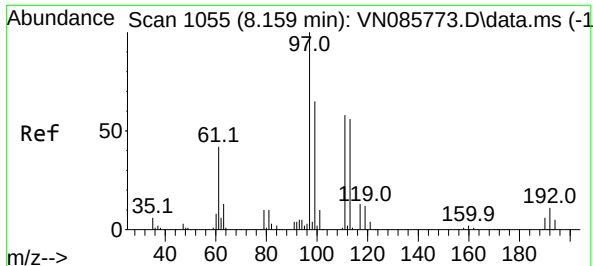
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.2

88 15.6 0.0 30.0





#35

Dibromofluoromethane

Concen: 51.399 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085877.D

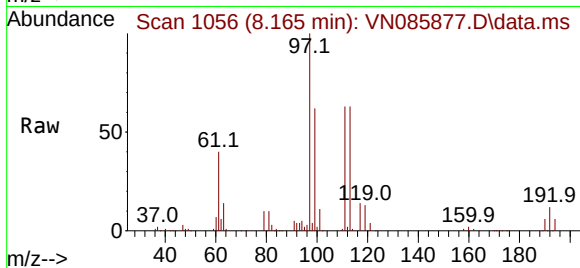
Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:113 Resp: 153710

Ion Ratio Lower Upper

113 100

111 100.7 82.2 123.4

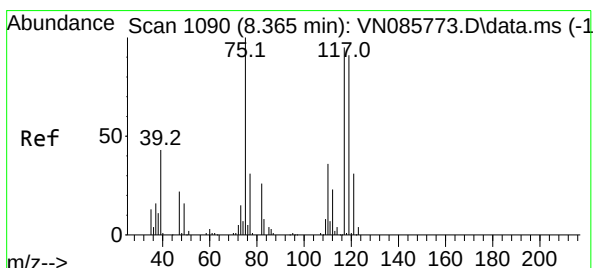
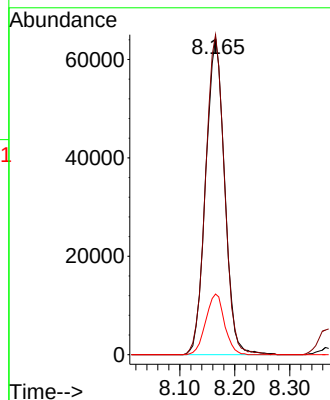
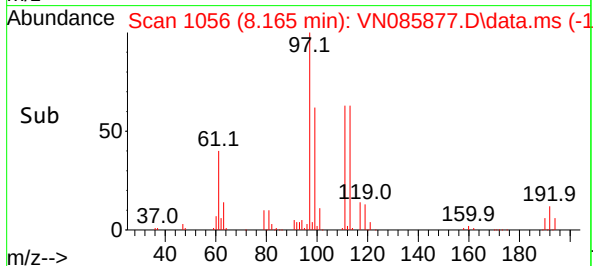
192 18.9 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#36

1,1-Dichloropropene

Concen: 45.274 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

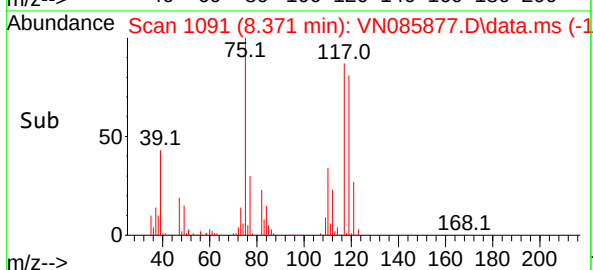
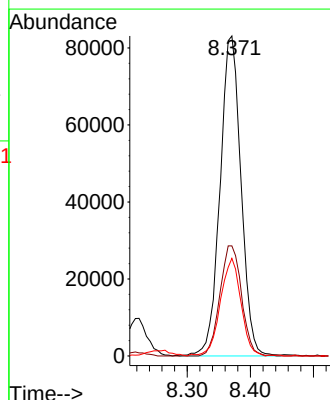
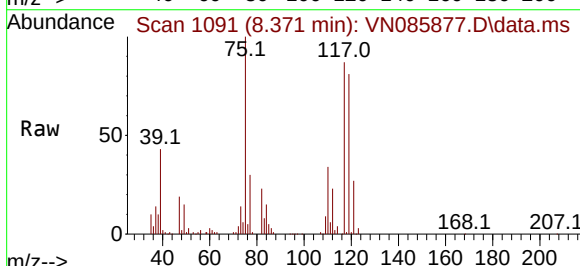
Tgt Ion: 75 Resp: 191621

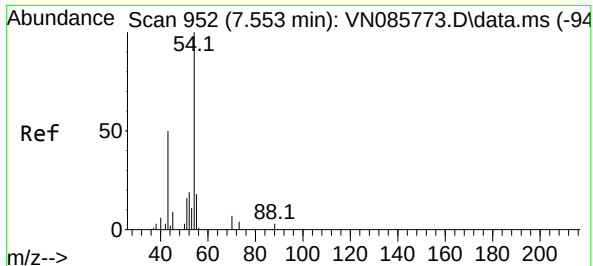
Ion Ratio Lower Upper

75 100

110 35.5 17.3 52.0

77 29.9 24.6 37.0





#37

Ethyl Acetate

Concen: 51.049 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 43 Resp: 17780

Ion Ratio Lower Upper

43 100

61 15.8 12.2 18.2

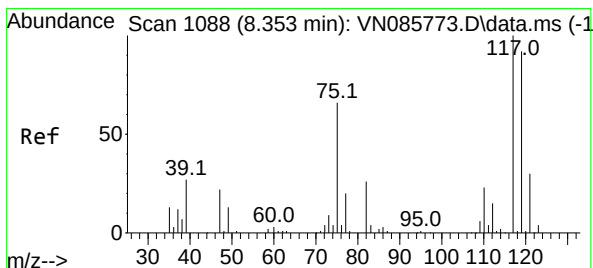
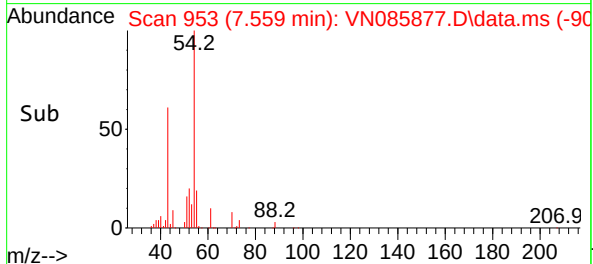
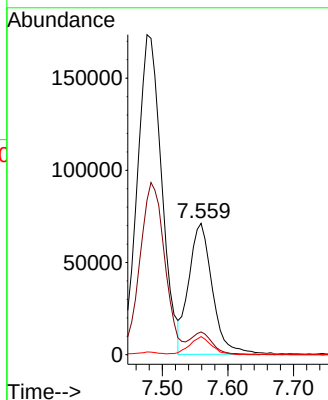
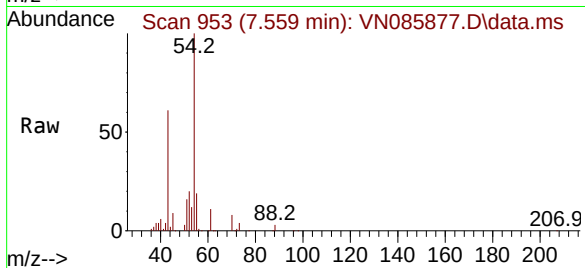
70 12.9 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#38

Carbon Tetrachloride

Concen: 44.402 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

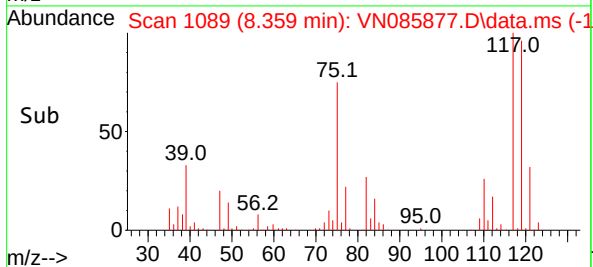
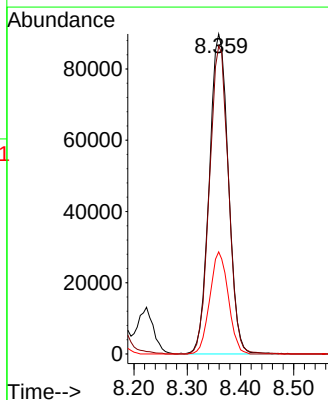
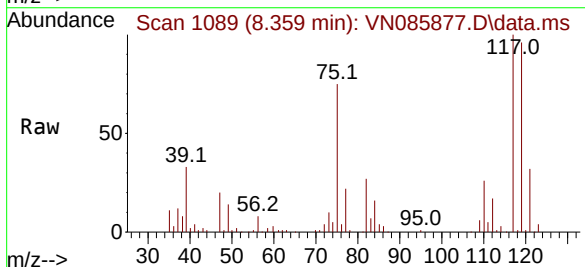
Tgt Ion:117 Resp: 223297

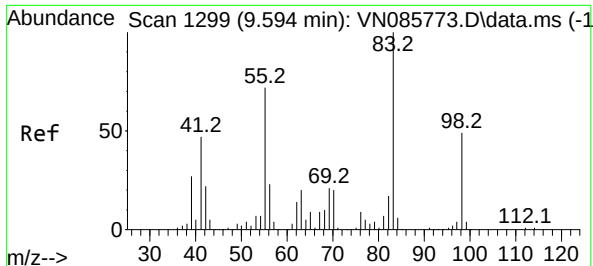
Ion Ratio Lower Upper

117 100

119 96.2 73.8 110.6

121 31.9 24.3 36.5





#39

Methylcyclohexane

Concen: 44.772 ug/l

RT: 9.600 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 83 Resp: 186159

Ion Ratio Lower Upper

83 100

55 74.1 57.5 86.3

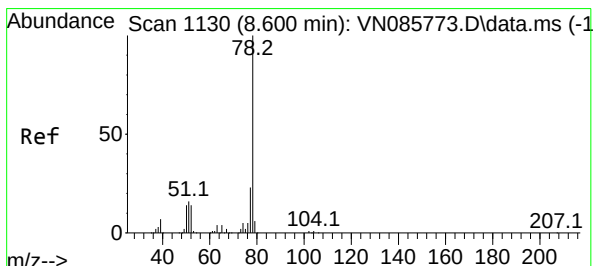
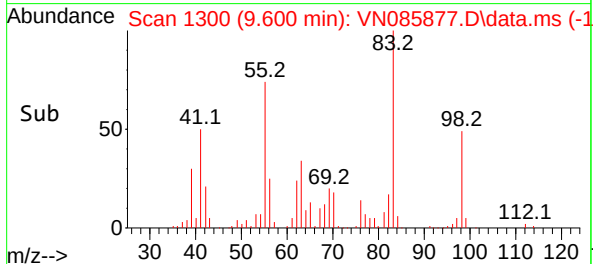
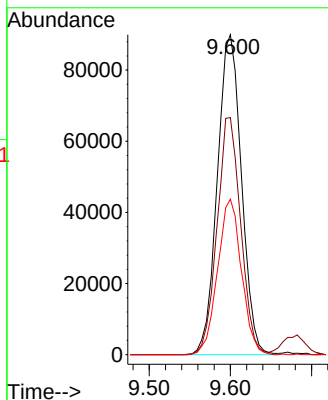
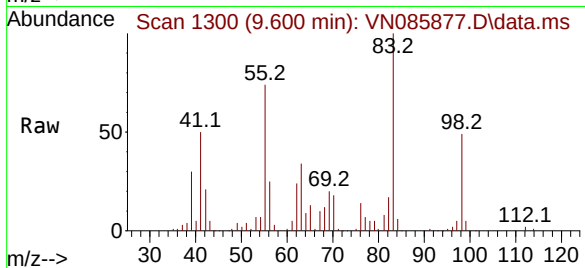
98 48.6 39.2 58.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#40

Benzene

Concen: 47.709 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085877.D

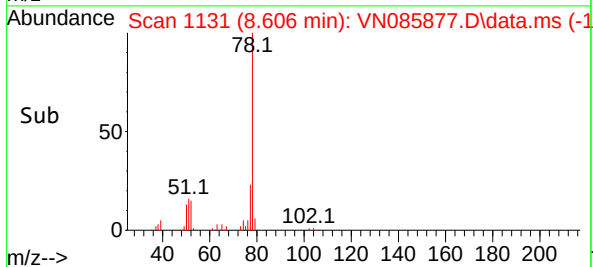
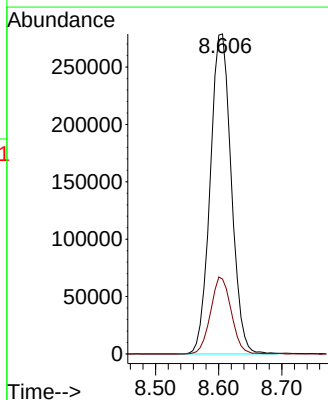
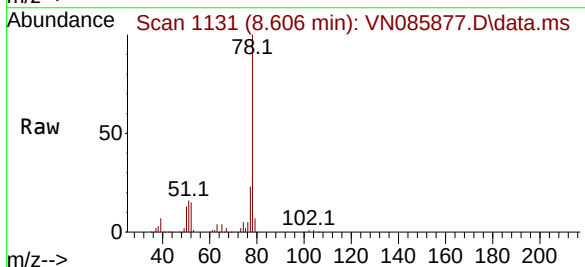
Acq: 26 Feb 2025 17:33

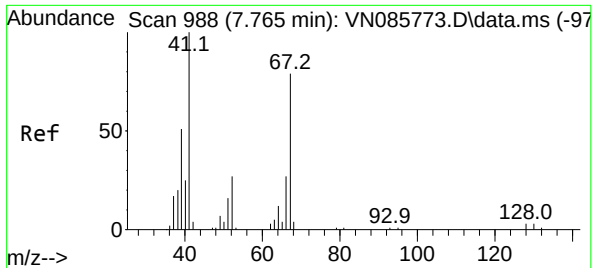
Tgt Ion: 78 Resp: 647177

Ion Ratio Lower Upper

78 100

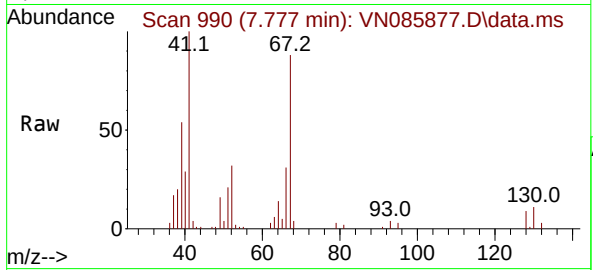
77 23.4 18.3 27.5





#41
Methacrylonitrile
Concen: 51.725 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

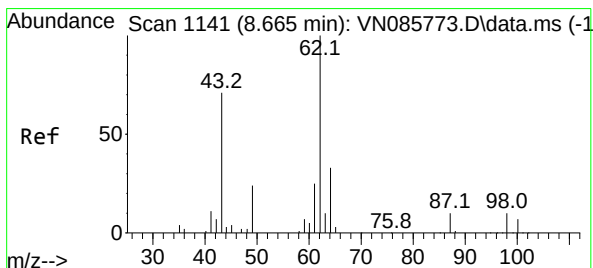
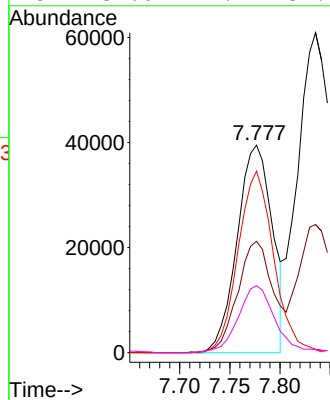
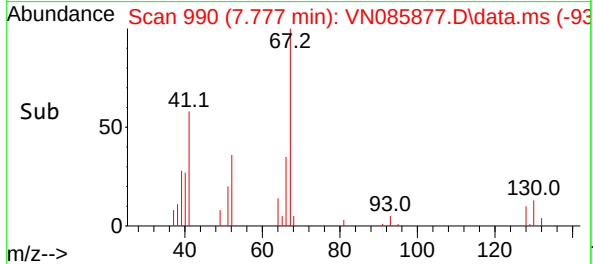
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 41 Resp: 96310
Ion Ratio Lower Upper
41 100
39 55.2 42.0 63.0
67 89.4 64.2 96.4
52 34.0 24.7 37.1

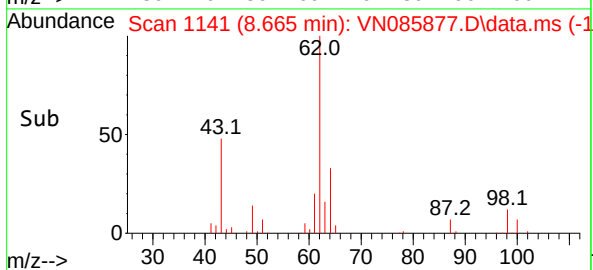
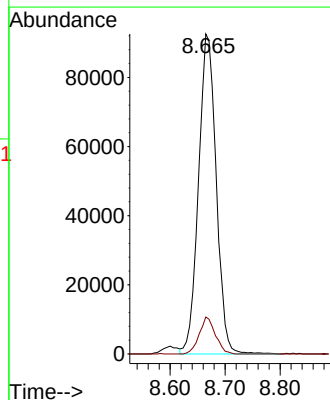
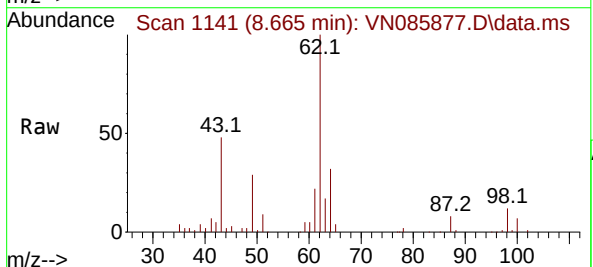
Manual Integrations
APPROVED

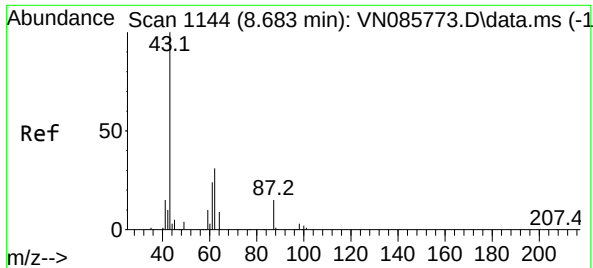
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#42
1,2-Dichloroethane
Concen: 46.842 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

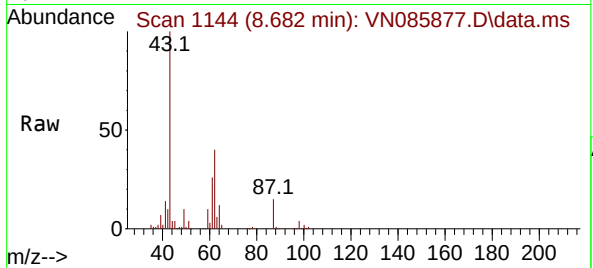
Tgt Ion: 62 Resp: 206974
Ion Ratio Lower Upper
62 100
98 10.5 0.0 19.6





#43
Isopropyl Acetate
Concen: 49.233 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

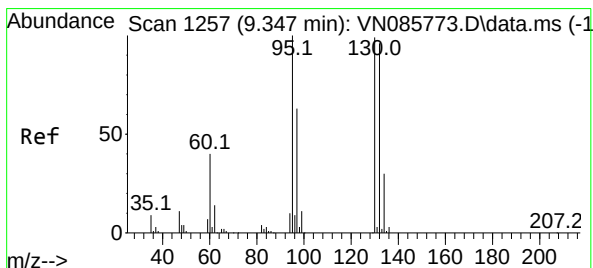
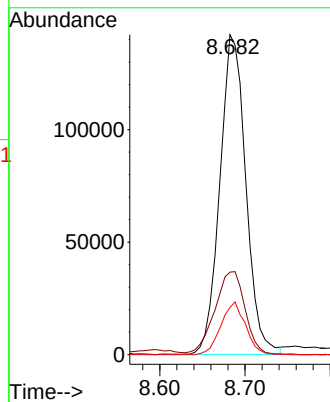
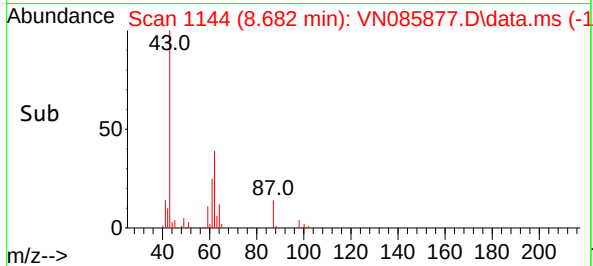
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 43 Resp: 300990
Ion Ratio Lower Upper
43 100
61 30.5 22.6 34.0
87 15.6 11.8 17.8

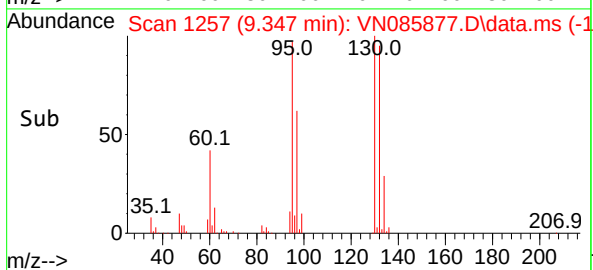
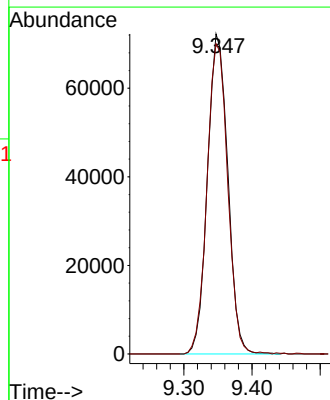
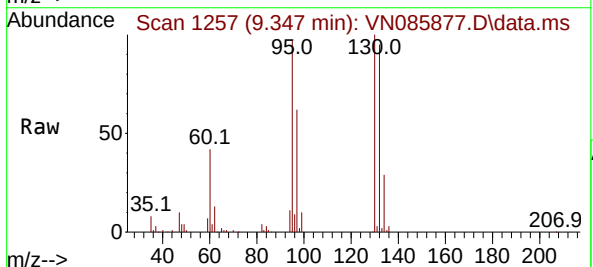
Manual Integrations
APPROVED

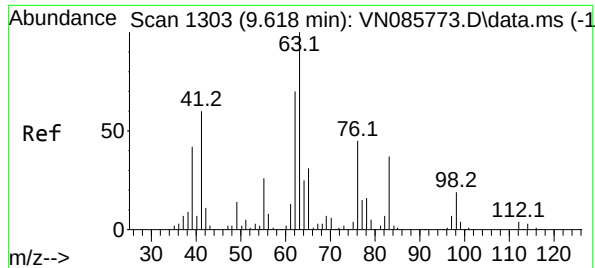
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#44
Trichloroethene
Concen: 45.062 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion:130 Resp: 150087
Ion Ratio Lower Upper
130 100
95 97.0 0.0 202.6





#45

1,2-Dichloropropane

Concen: 49.925 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 63 Resp: 16347

Ion Ratio Lower Upper

63 100

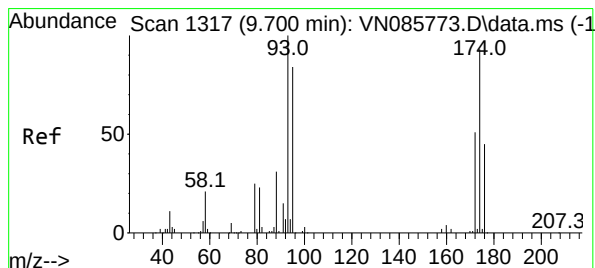
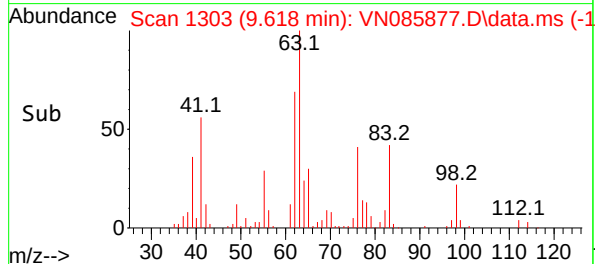
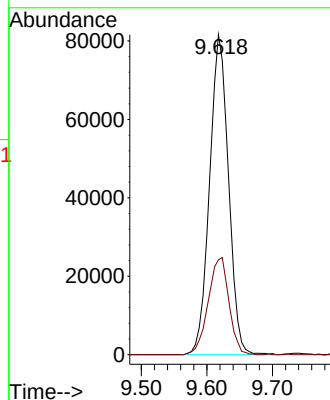
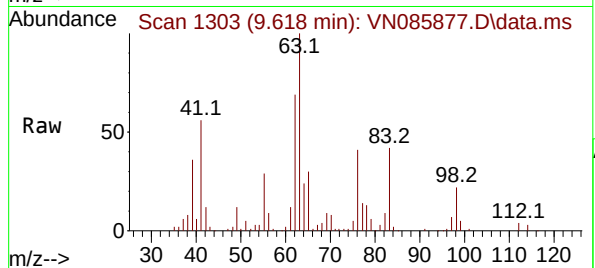
65 29.7 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#46

Dibromomethane

Concen: 49.274 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

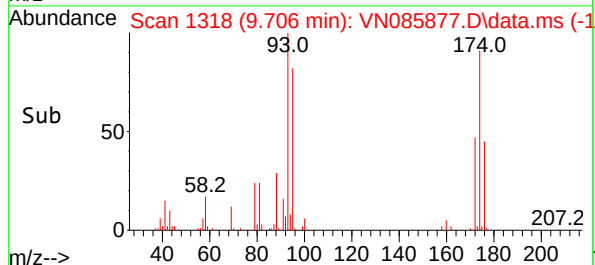
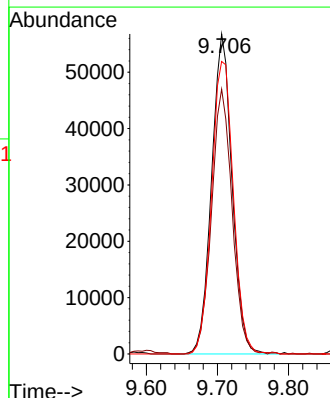
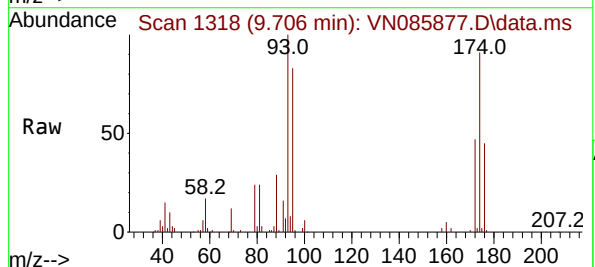
Tgt Ion: 93 Resp: 113805

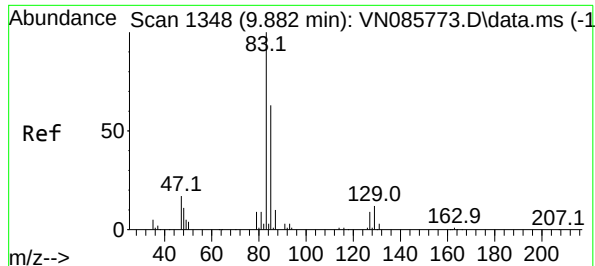
Ion Ratio Lower Upper

93 100

95 83.2 66.7 100.1

174 97.1 77.2 115.8





#47

Bromodichloromethane

Concen: 48.731 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. -0.000 min

Lab File: VN085877.D

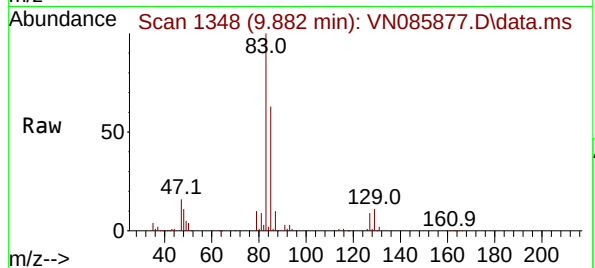
Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

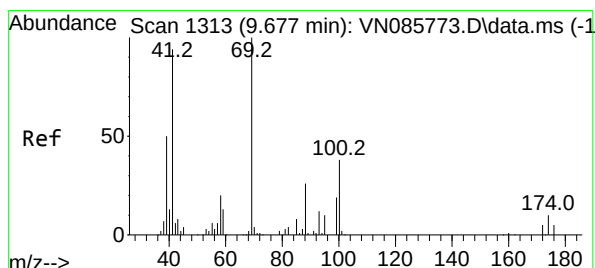
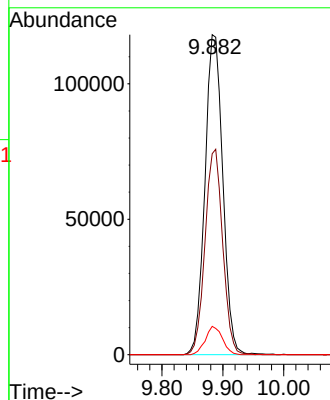
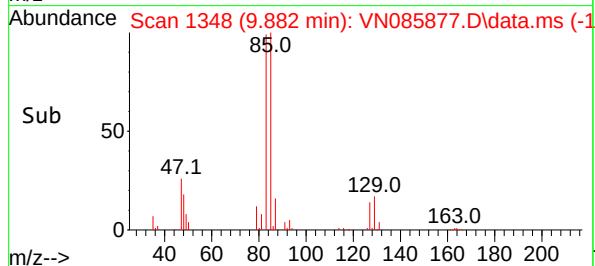


Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.5	75.7
127	8.9	7.2	10.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#48

Methyl methacrylate

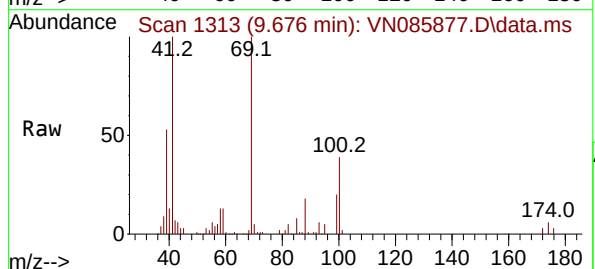
Concen: 54.118 ug/l

RT: 9.676 min Scan# 1313

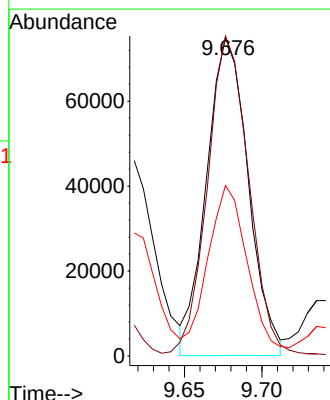
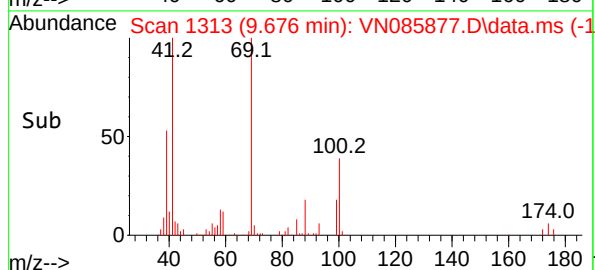
Delta R.T. -0.000 min

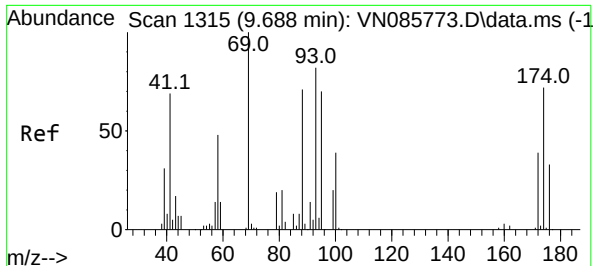
Lab File: VN085877.D

Acq: 26 Feb 2025 17:33



Tgt Ion	Ratio	Lower	Upper
41	100		
69	100.0	76.0	114.0
39	52.1	42.3	63.5





#49

1,4-Dioxane

Concen: 1146.587 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 88 Resp: 56400

Ion Ratio Lower Upper

88

43

58

100

22.3

69.9

18.6

27.8

56.7

27.8

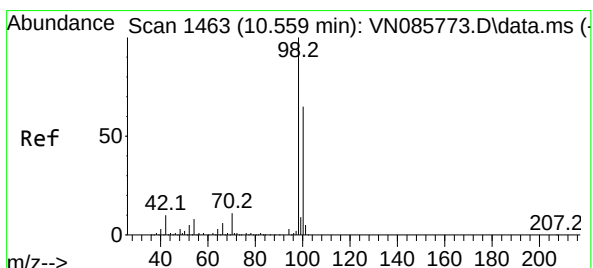
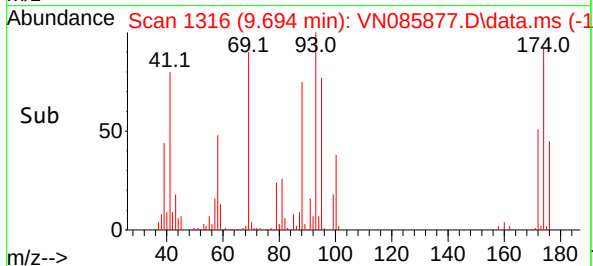
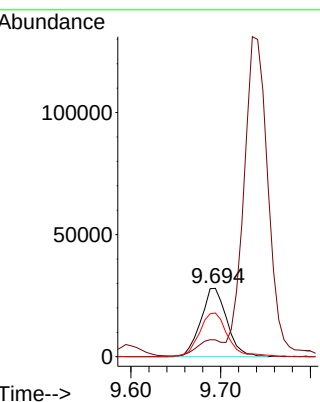
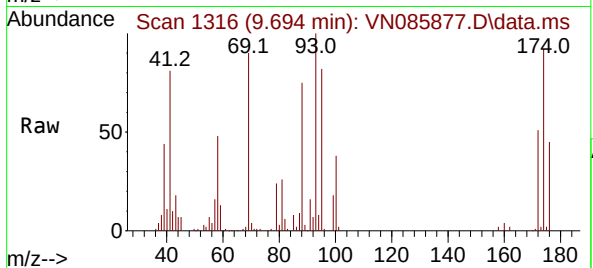
85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#50

Toluene-d8

Concen: 50.471 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Tgt Ion: 98 Resp: 549151

Ion Ratio Lower Upper

98

100

100

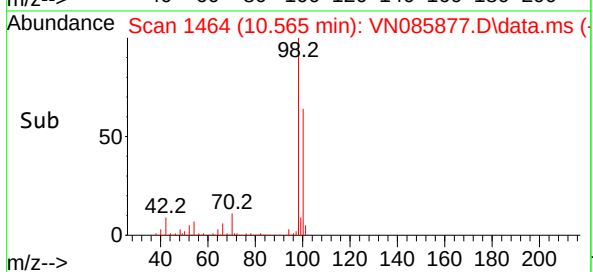
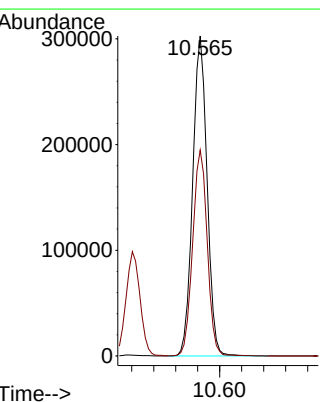
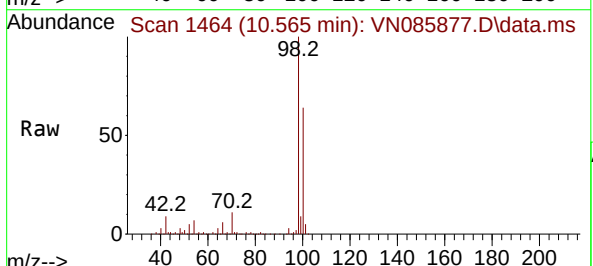
100

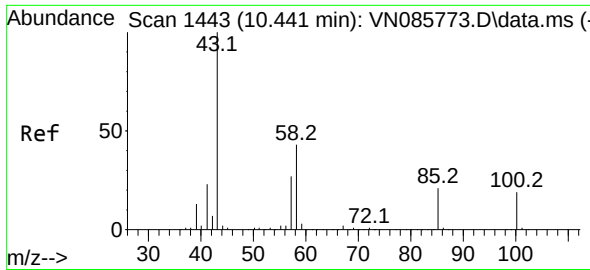
65.3

52.1

52.1

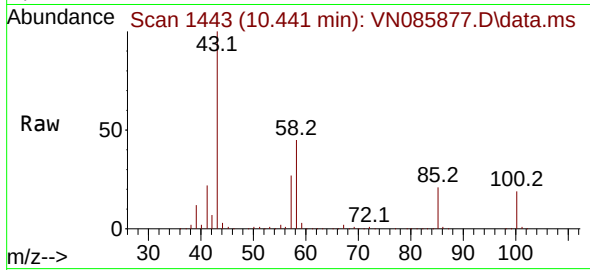
78.1





#51
4-Methyl-2-Pentanone
Concen: 276.038 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

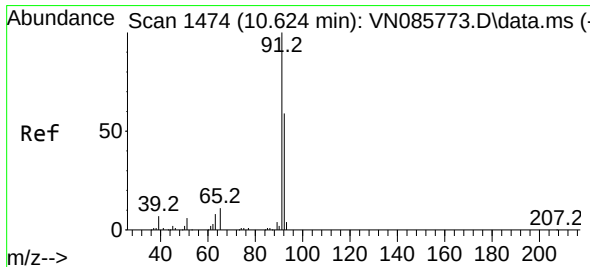
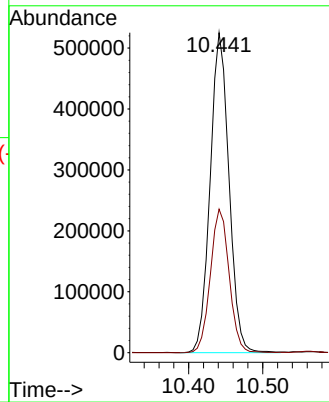
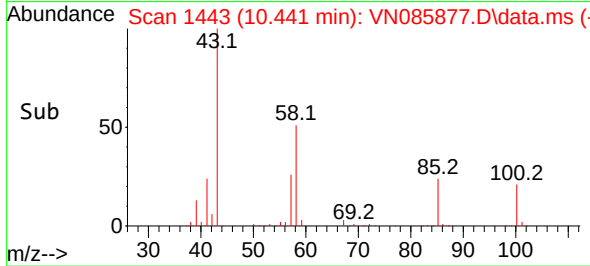
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 43 Resp: 92696
Ion Ratio Lower Upper
43 100
58 44.8 34.6 52.0

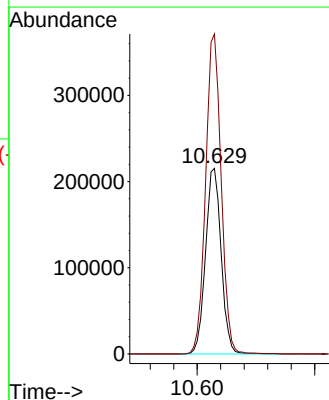
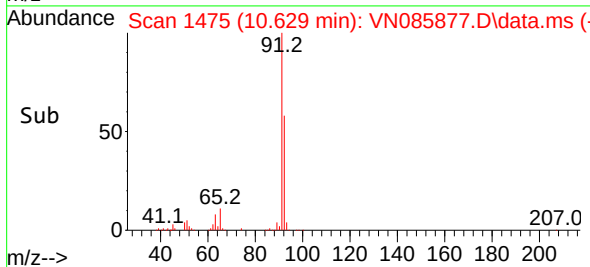
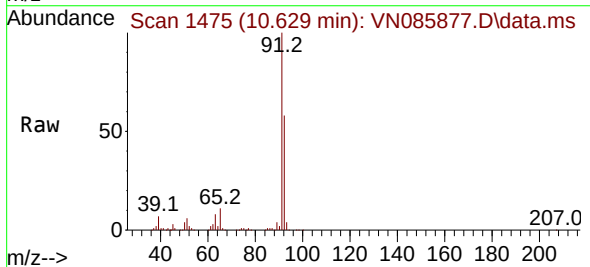
Manual Integrations
APPROVED

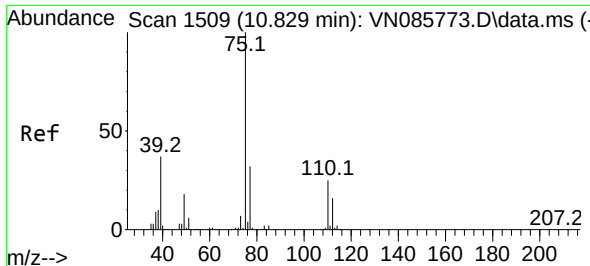
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#52
Toluene
Concen: 50.070 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

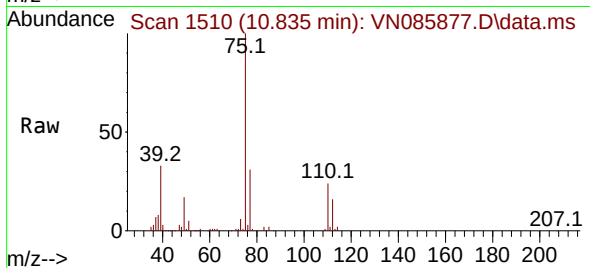
Tgt Ion: 92 Resp: 398144
Ion Ratio Lower Upper
92 100
91 171.6 136.9 205.3





#53
t-1,3-Dichloropropene
Concen: 51.865 ug/l
RT: 10.835 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

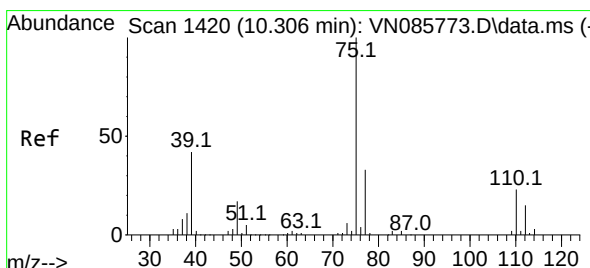
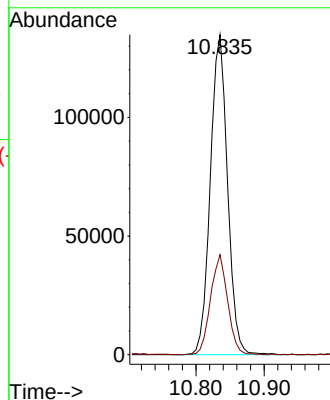
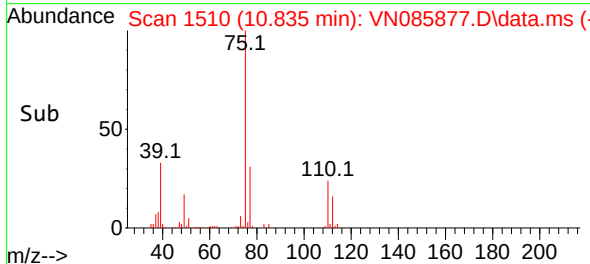
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 75 Resp: 23698
Ion Ratio Lower Upper
75 100
77 31.2 25.4 38.0

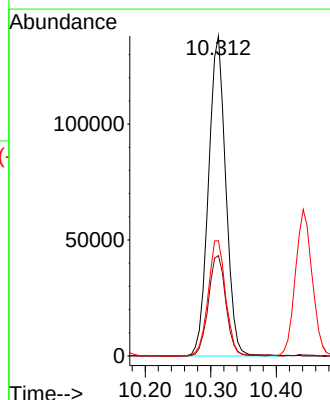
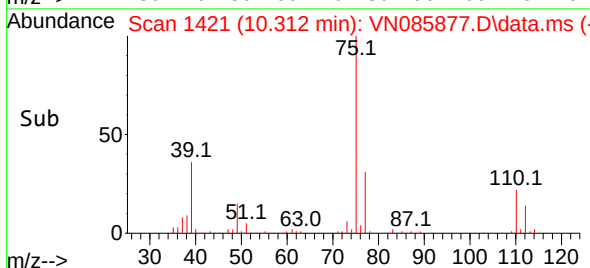
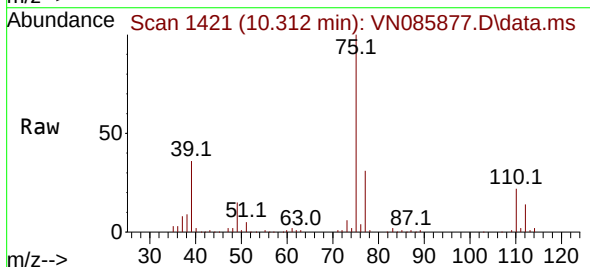
Manual Integrations
APPROVED

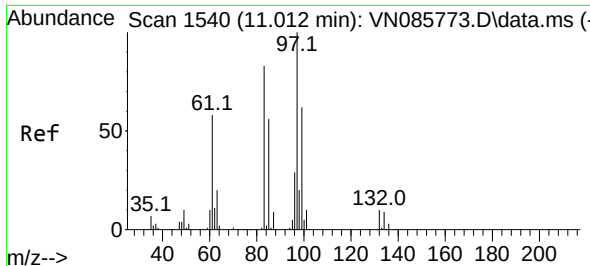
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#54
cis-1,3-Dichloropropene
Concen: 50.500 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

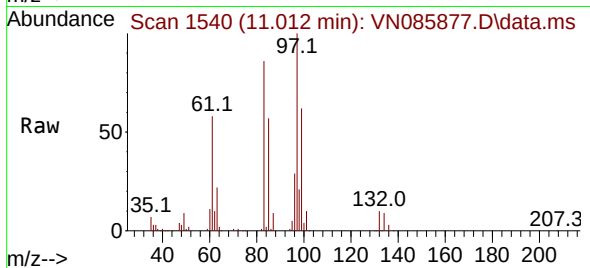
Tgt Ion: 75 Resp: 253027
Ion Ratio Lower Upper
75 100
77 31.4 26.1 39.1
39 36.0 33.4 50.0





#55
1,1,2-Trichloroethane
Concen: 50.791 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

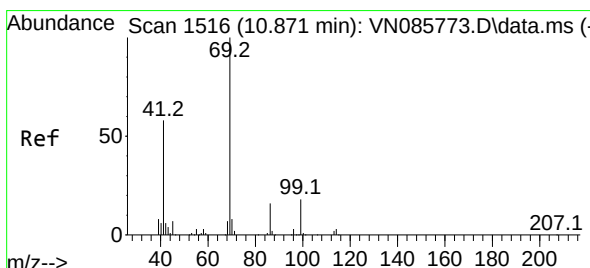
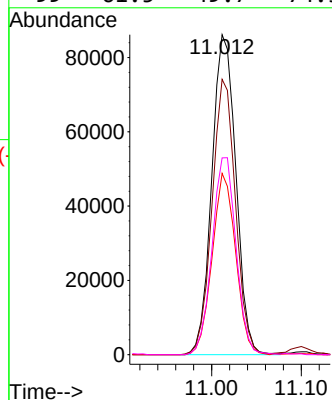
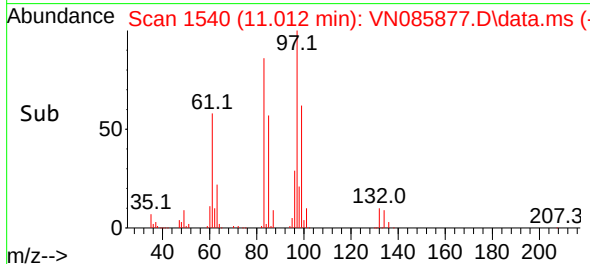
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 97 Resp: 160579
Ion Ratio Lower Upper
97 100
83 86.0 66.1 99.1
85 56.6 44.7 67.1
99 61.5 49.7 74.5

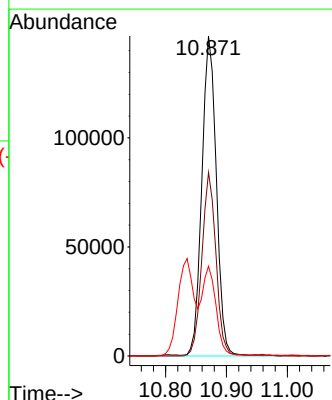
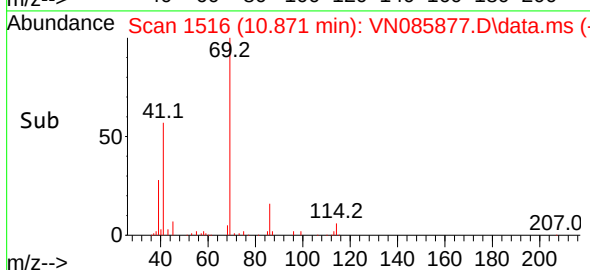
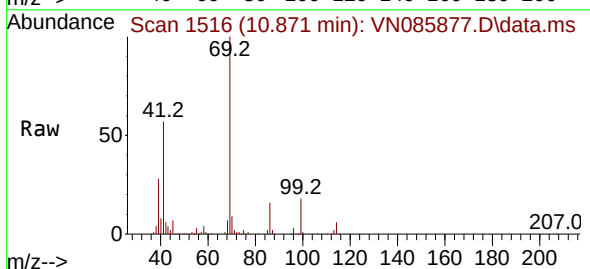
Manual Integrations
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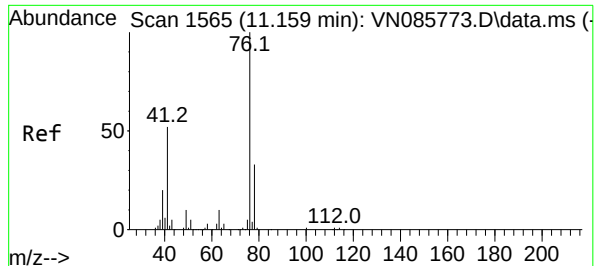
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#56
Ethyl methacrylate
Concen: 52.985 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 69 Resp: 242620
Ion Ratio Lower Upper
69 100
41 55.0 46.0 69.0
39 26.4 22.0 33.0





#57

1,3-Dichloropropane

Concen: 51.543 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 76 Resp: 272020

Ion Ratio Lower Upper

76 100

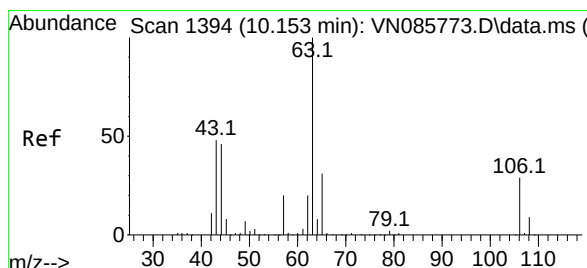
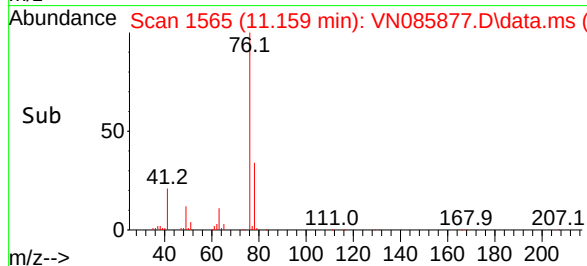
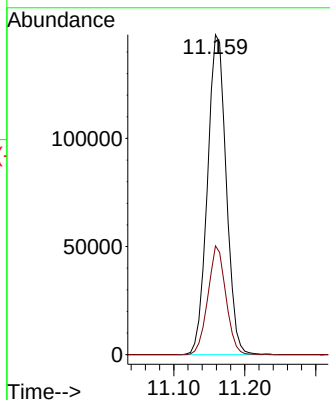
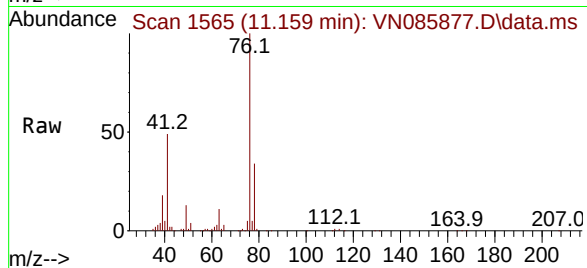
78 32.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#58

2-Chloroethyl Vinyl ether

Concen: 286.849 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085877.D

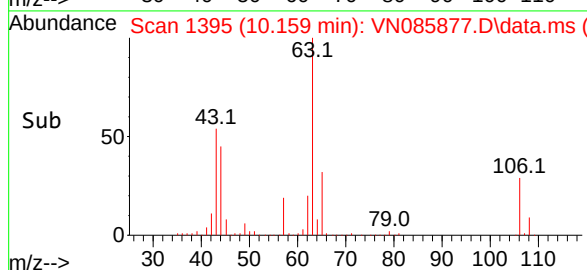
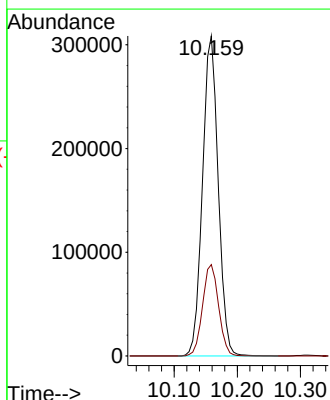
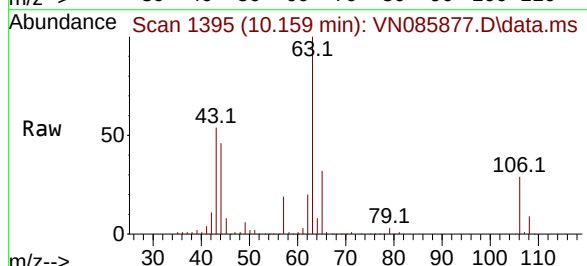
Acq: 26 Feb 2025 17:33

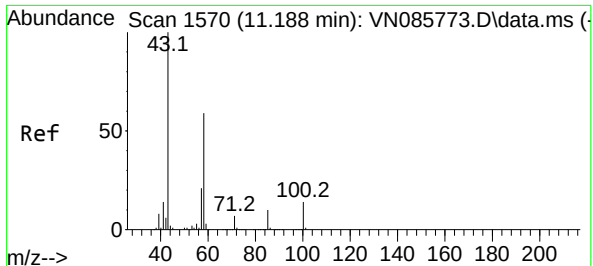
Tgt Ion: 63 Resp: 533138

Ion Ratio Lower Upper

63 100

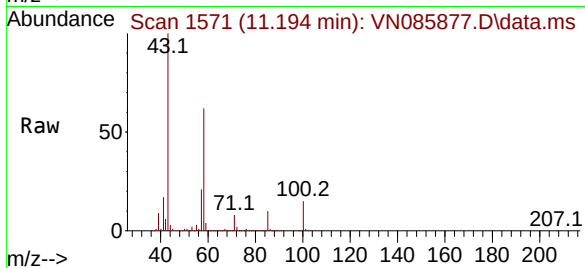
106 29.1 22.7 34.1





#59
2-Hexanone
Concen: 293.330 ug/l
RT: 11.194 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

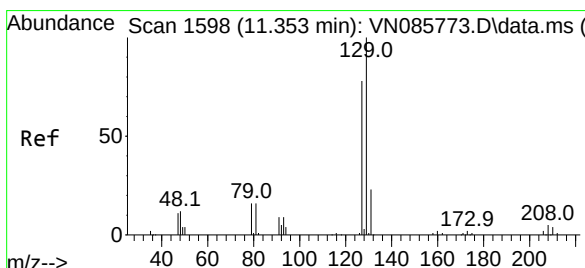
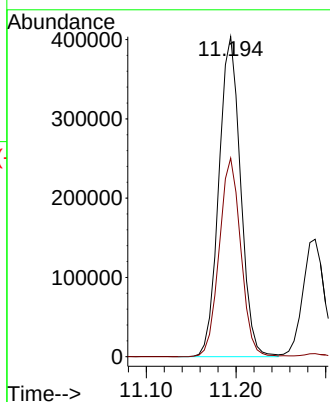
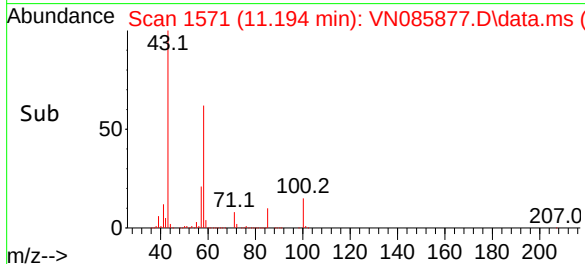
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 43 Resp: 677650
Ion Ratio Lower Upper
43 100
58 61.6 29.8 89.5

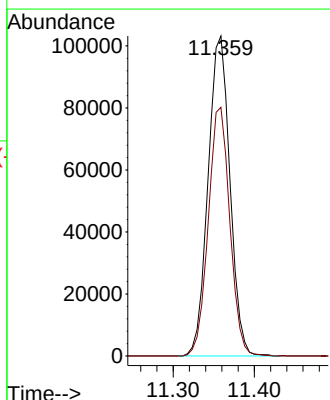
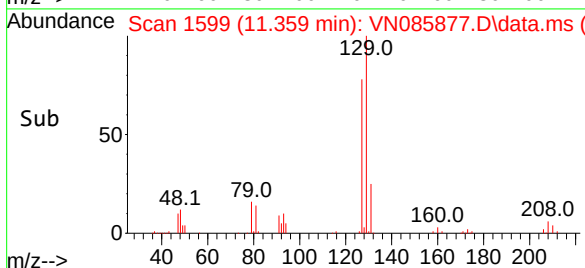
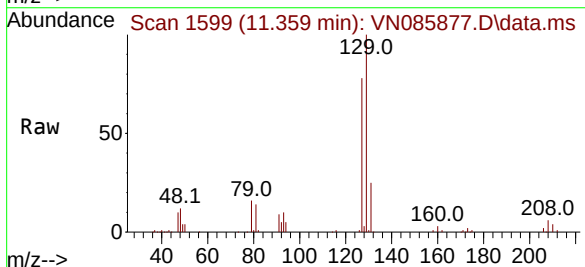
Manual Integrations
APPROVED

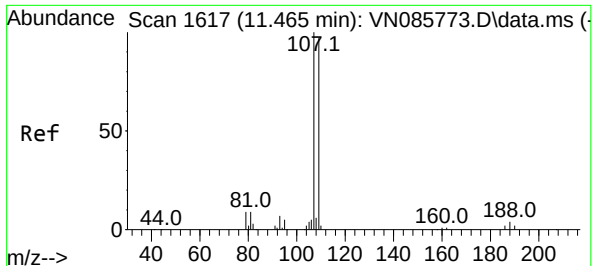
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#60
Dibromochloromethane
Concen: 52.409 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion:129 Resp: 192939
Ion Ratio Lower Upper
129 100
127 76.6 39.1 117.5





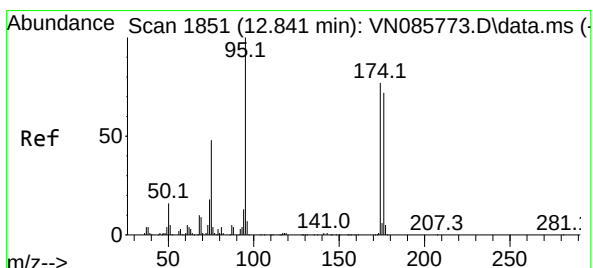
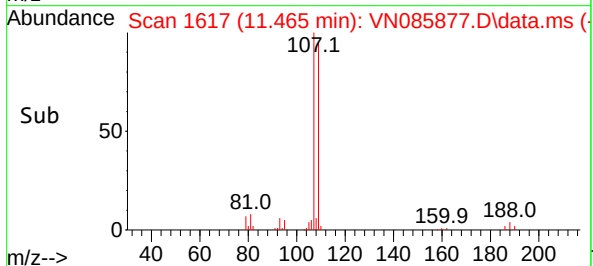
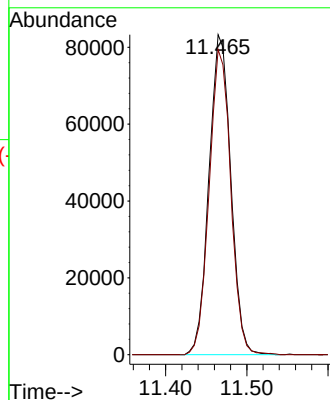
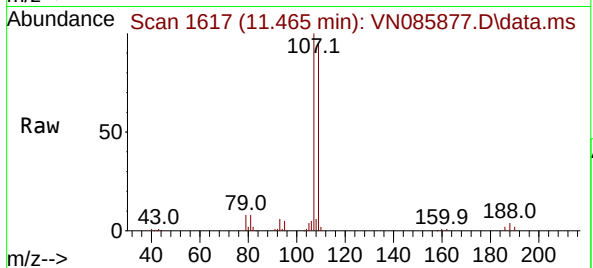
#61
1,2-Dibromoethane
Concen: 52.022 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:107 Resp: 155400
Ion Ratio Lower Upper
107 100
109 94.2 76.0 114.0

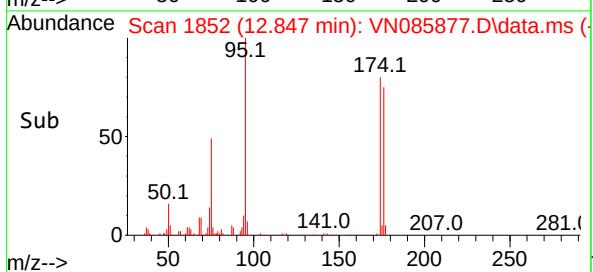
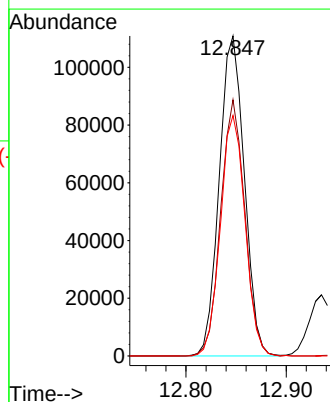
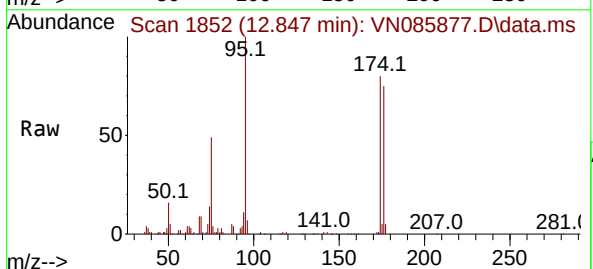
Manual Integrations
APPROVED

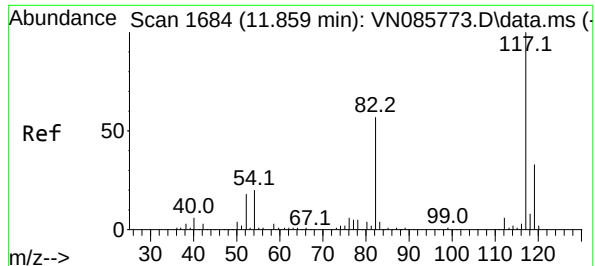
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#62
4-Bromofluorobenzene
Concen: 53.689 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 95 Resp: 192469
Ion Ratio Lower Upper
95 100
174 76.9 0.0 152.4
176 73.9 0.0 146.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:117 Resp: 40092

Ion Ratio Lower Upper

117 100

82 56.1 45.7 68.5

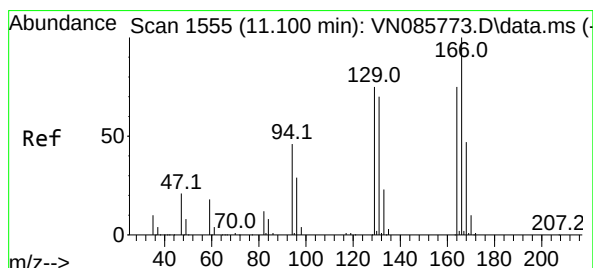
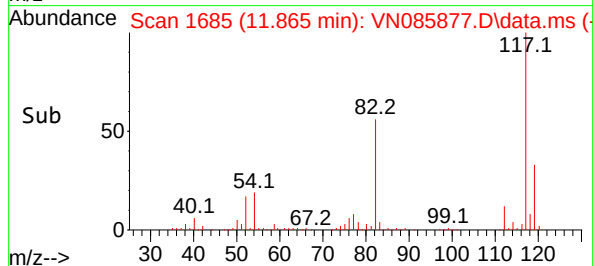
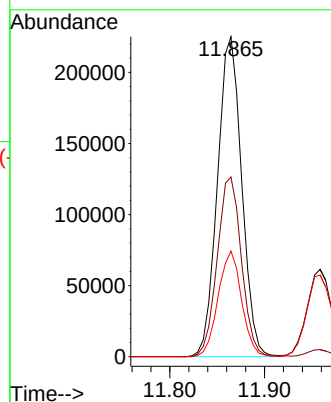
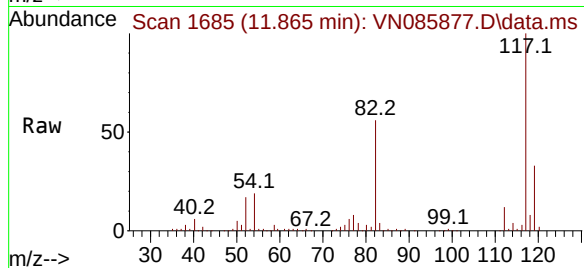
119 33.0 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#64

Tetrachloroethene

Concen: 47.442 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Tgt Ion:164 Resp: 147352

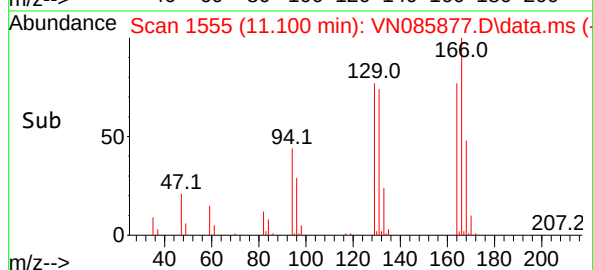
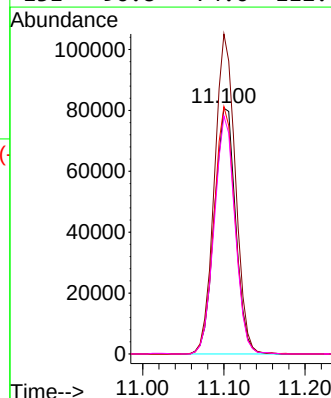
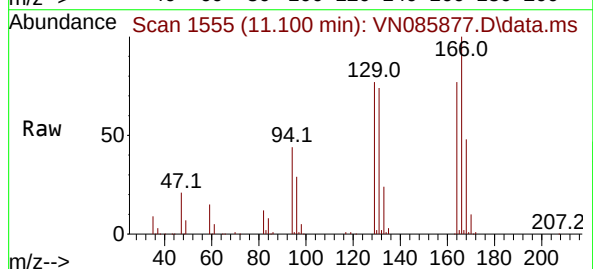
Ion Ratio Lower Upper

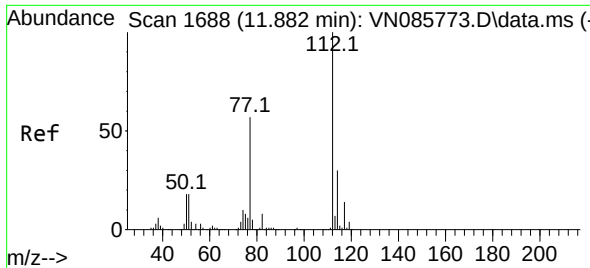
164 100

166 130.2 107.2 160.8

129 100.6 80.7 121.1

131 96.8 74.6 112.0





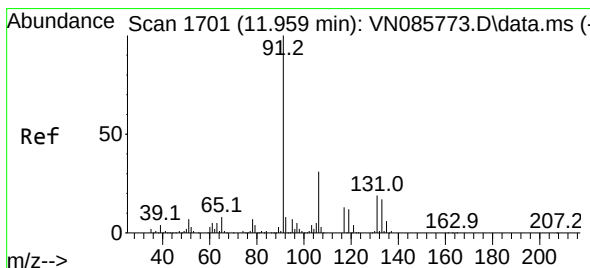
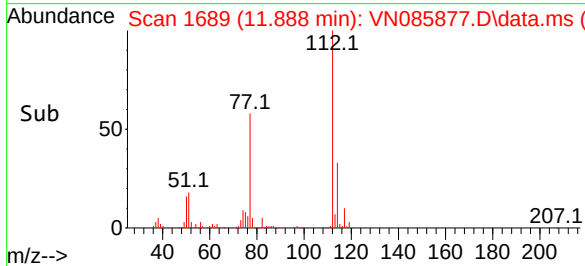
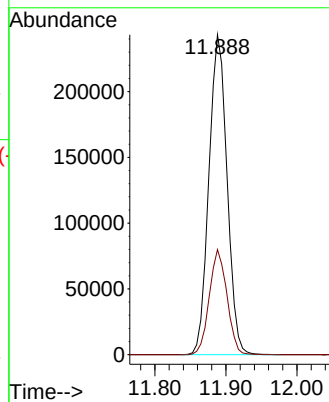
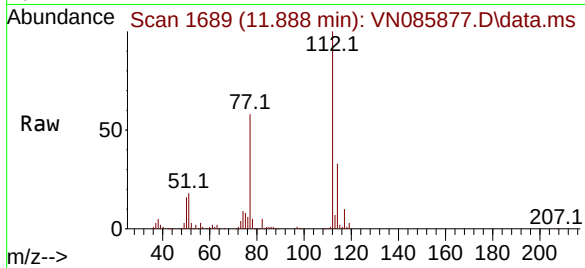
#65
Chlorobenzene
Concen: 47.003 ug/l
RT: 11.888 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:112 Resp: 431690
Ion Ratio Lower Upper
112 100
114 32.9 24.3 36.5

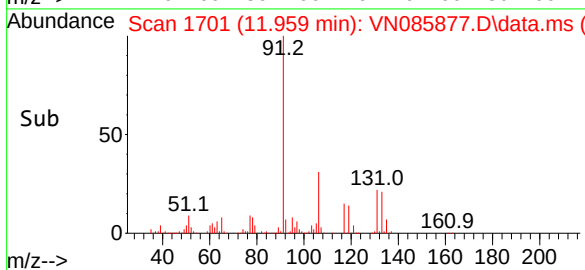
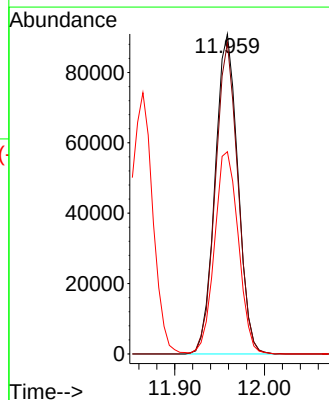
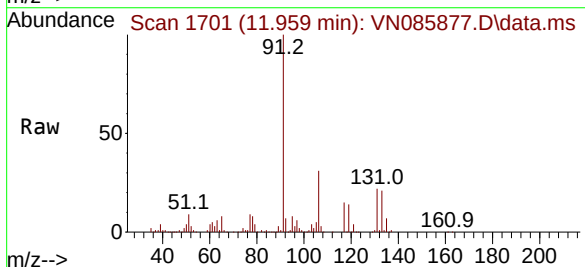
Manual Integrations
APPROVED

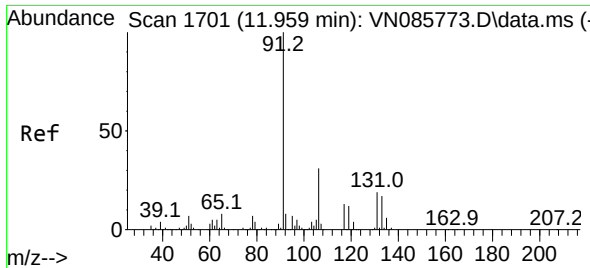
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 48.696 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

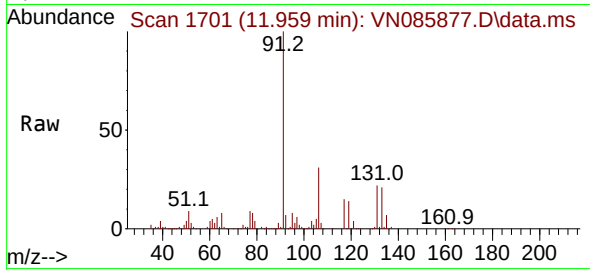
Tgt Ion:131 Resp: 160756
Ion Ratio Lower Upper
131 100
133 95.9 47.7 143.1
119 66.0 33.3 99.8





#67
Ethyl Benzene
Concen: 49.923 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

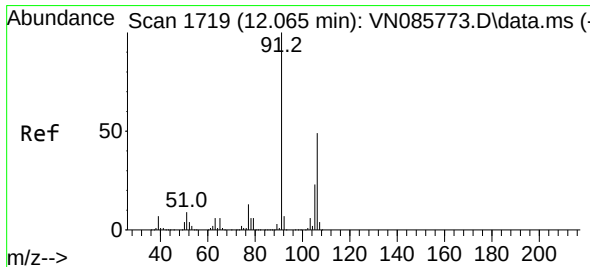
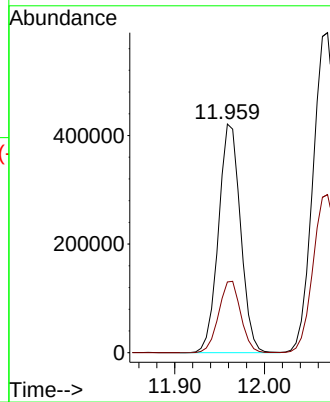
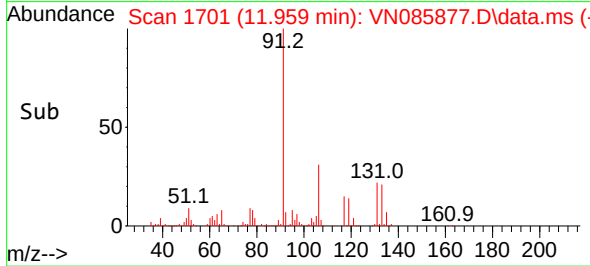
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 91 Resp: 718249
Ion Ratio Lower Upper
91 100
106 30.9 24.7 37.1

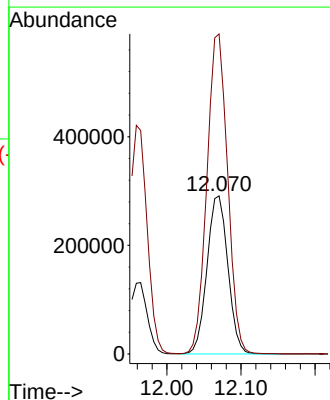
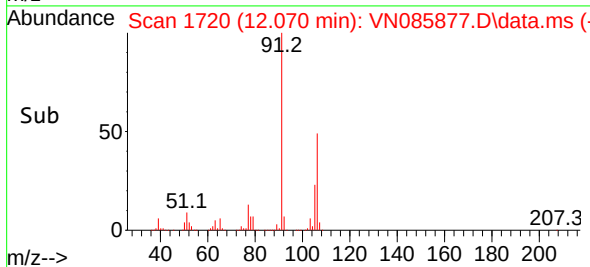
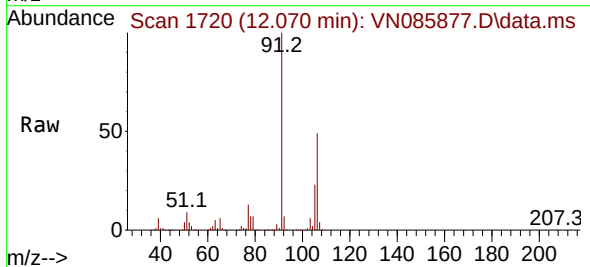
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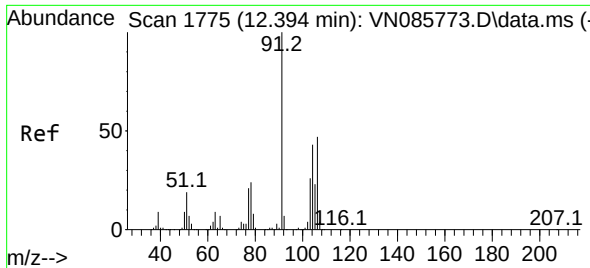
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#68
m/p-Xylenes
Concen: 104.173 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.005 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

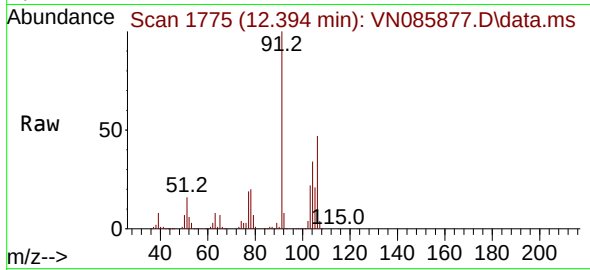
Tgt Ion:106 Resp: 569298
Ion Ratio Lower Upper
106 100
91 201.1 163.3 244.9





#69
o-Xylene
Concen: 52.373 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

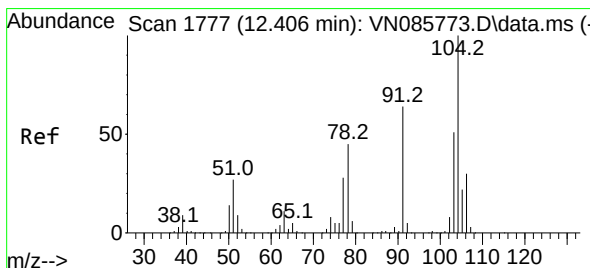
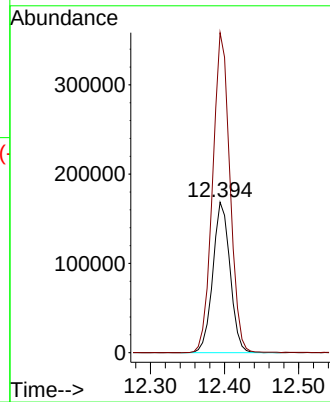
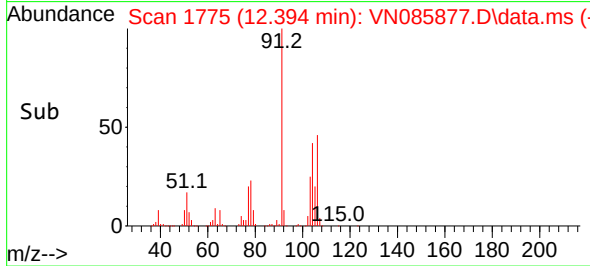
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:106 Resp: 271975
Ion Ratio Lower Upper
106 100
91 214.0 107.1 321.4

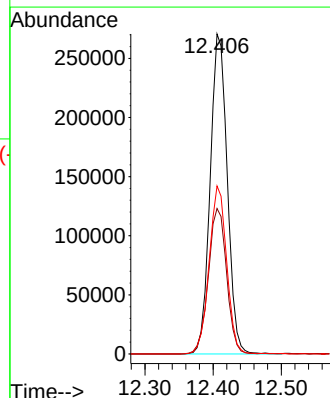
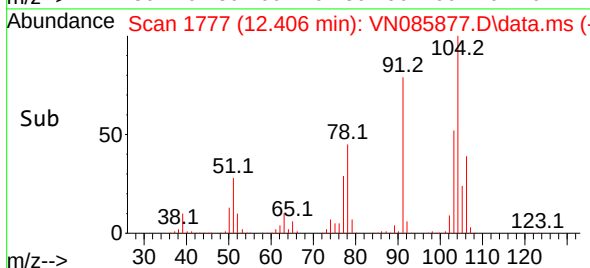
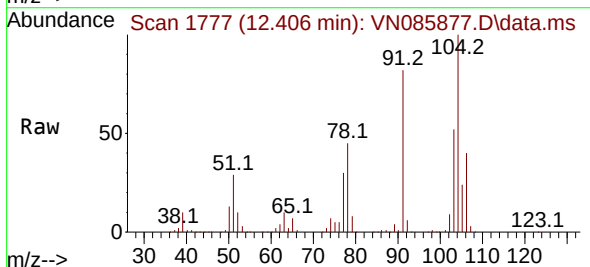
Manual Integrations
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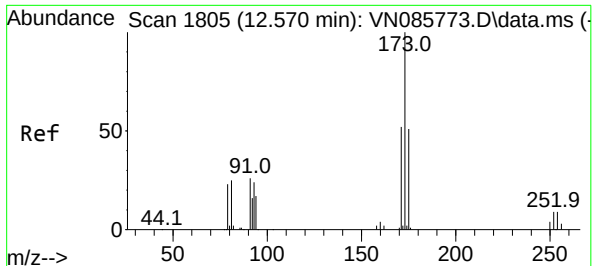
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#70
Styrene
Concen: 48.999 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

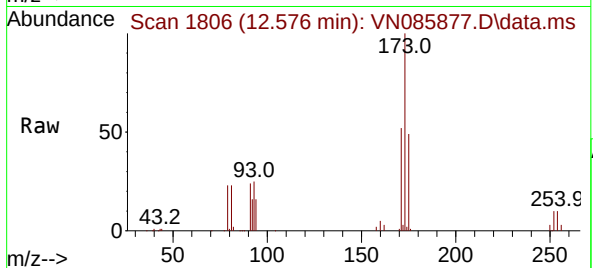
Tgt Ion:104 Resp: 472506
Ion Ratio Lower Upper
104 100
78 48.4 39.0 58.6
103 54.0 43.3 64.9





#71
Bromoform
Concen: 52.526 ug/l
RT: 12.576 min Scan# 1805
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

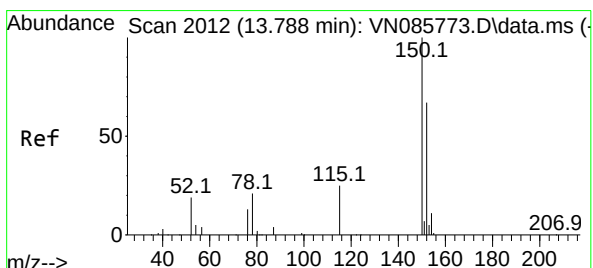
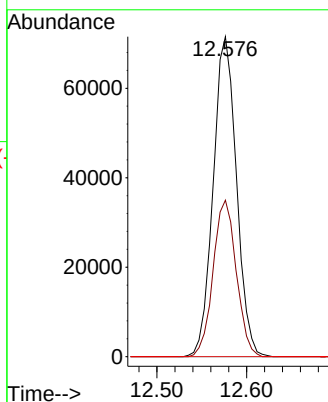
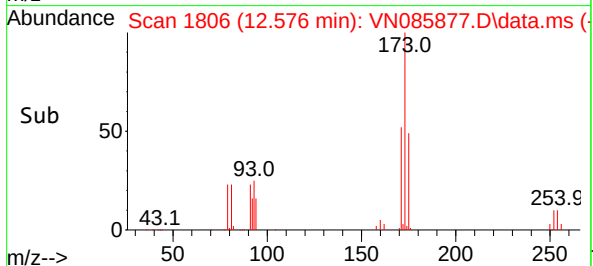
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



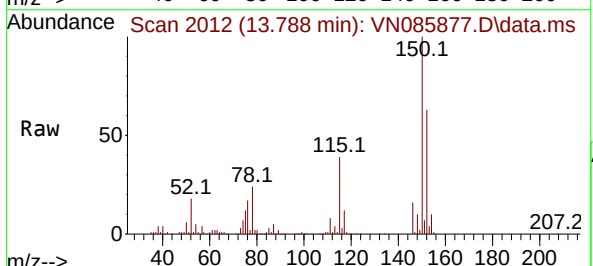
Tgt Ion:173 Resp: 128840
Ion Ratio Lower Upper
173 100
175 48.6 25.1 75.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

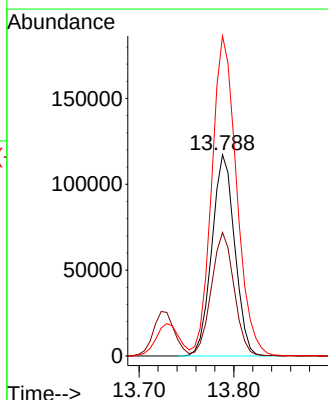
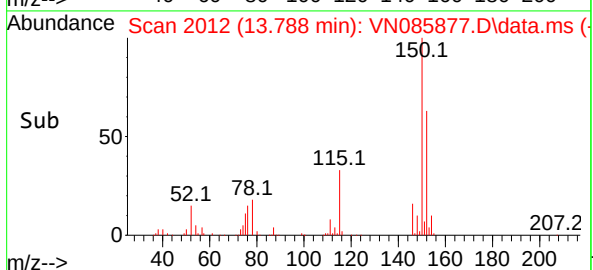
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

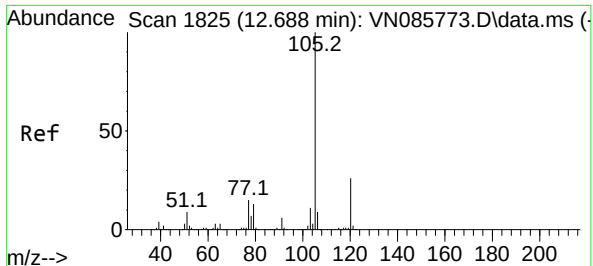


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33



Tgt Ion:152 Resp: 196698
Ion Ratio Lower Upper
152 100
115 61.1 30.4 91.3
150 172.9 0.0 345.4





#73

Isopropylbenzene

Concen: 48.898 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.006 min

Lab File: VN085877.D

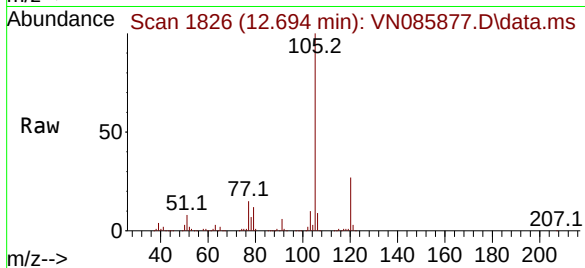
Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:105 Resp: 658940

Ion Ratio Lower Upper

105 100

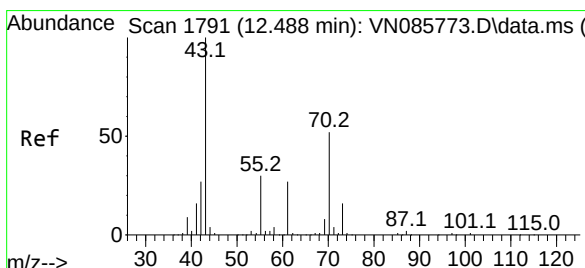
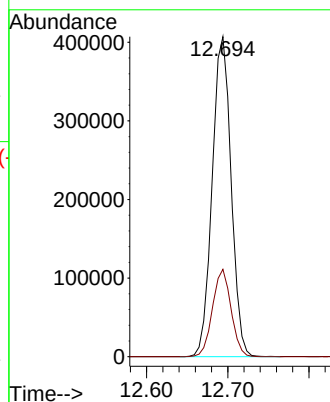
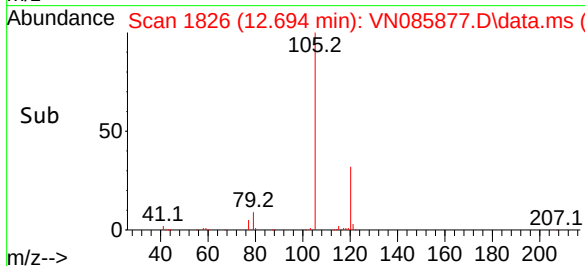
120 26.7 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#74

N-ethyl acetate

Concen: 53.197 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Tgt Ion: 43 Resp: 252799

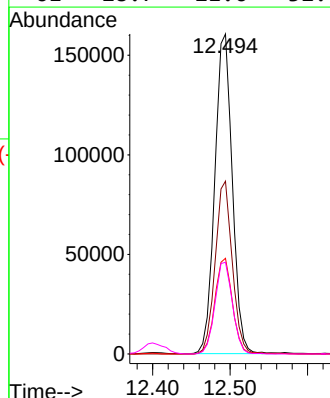
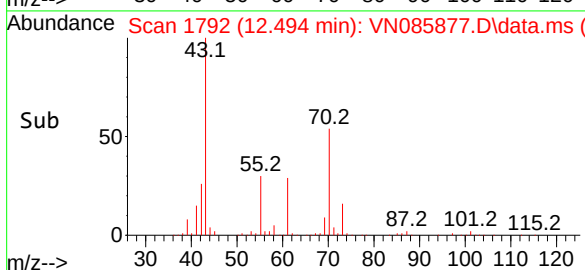
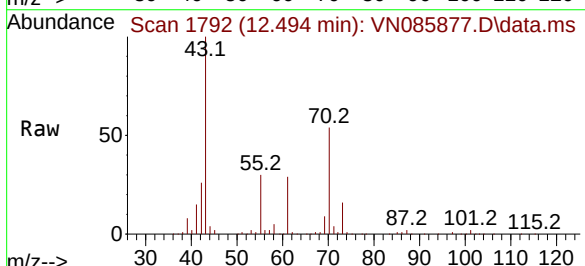
Ion Ratio Lower Upper

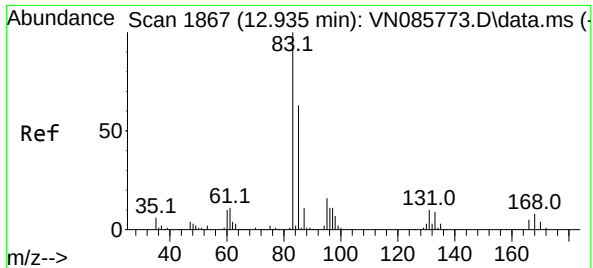
43 100

70 52.6 41.0 61.4

55 30.2 24.6 36.8

61 28.7 21.6 32.4





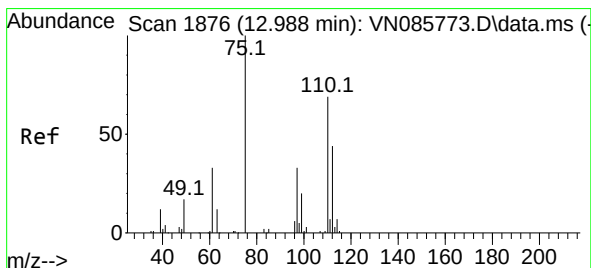
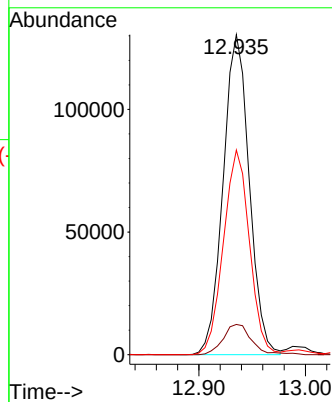
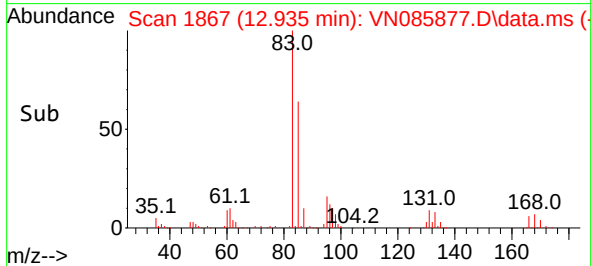
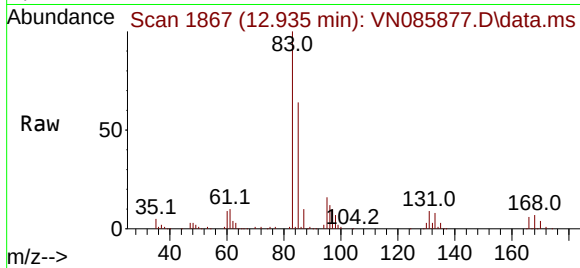
#75
1,1,2,2-Tetrachloroethane
Concen: 47.862 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion: 83 Resp: 22194
Ion Ratio Lower Upper
83 100
131 10.3 5.0 15.0
85 63.8 32.2 96.6

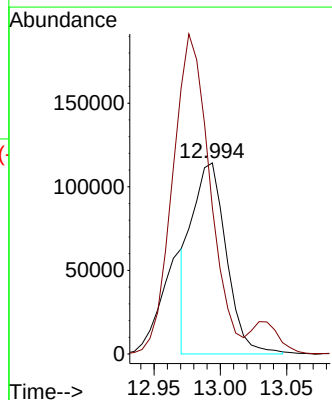
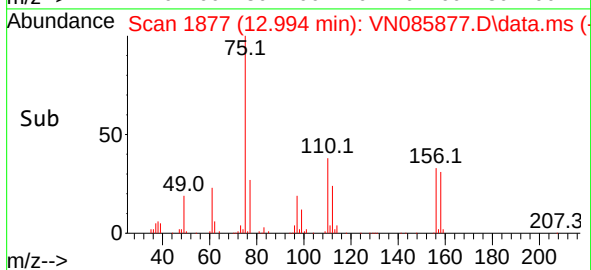
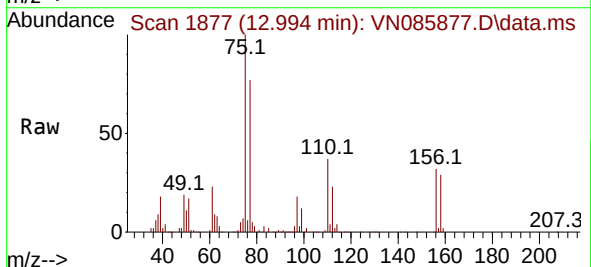
Manual Integrations
APPROVED

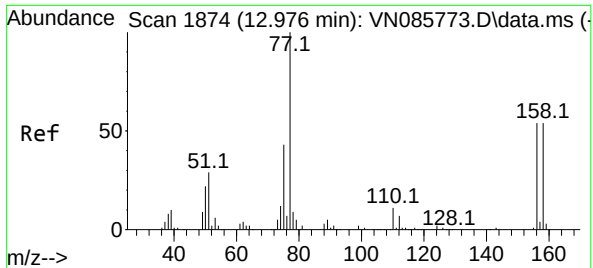
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#76
1,2,3-Trichloropropane
Concen: 47.403 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

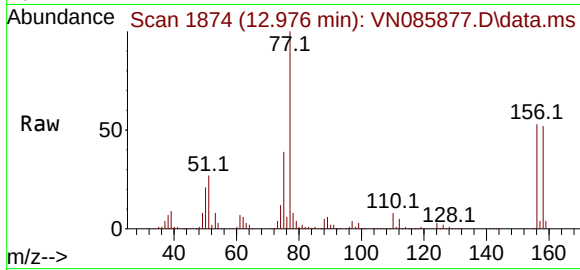
Tgt Ion: 75 Resp: 207118
Ion Ratio Lower Upper
75 100
77 181.1 100.0 300.0





#77
Bromobenzene
Concen: 48.125 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

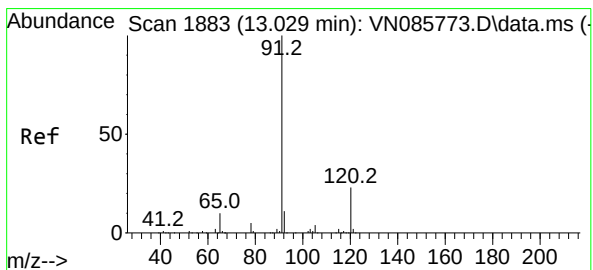
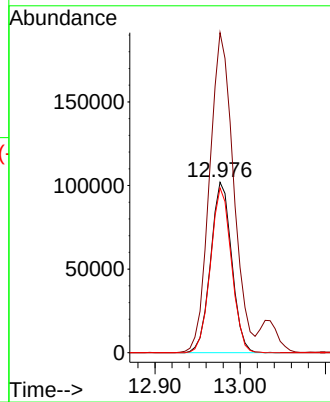
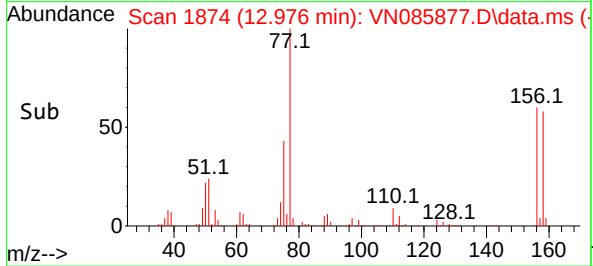
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:156 Resp: 17521
Ion Ratio Lower Upper
156 100
77 214.1 104.1 312.3
158 95.7 48.1 144.4

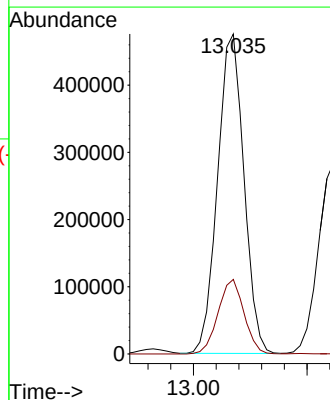
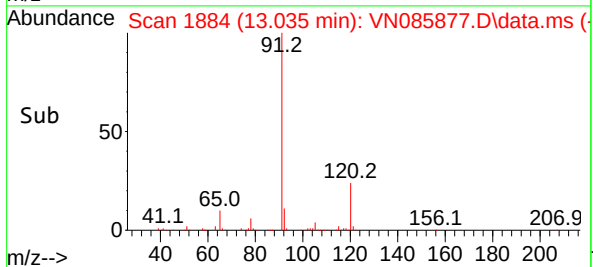
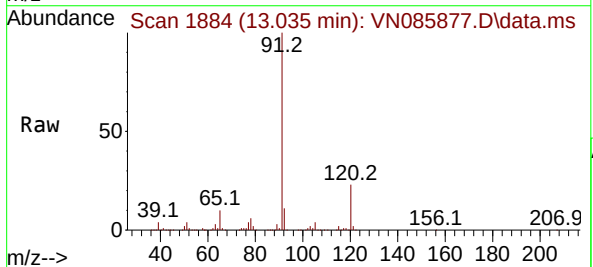
Manual Integrations
APPROVED

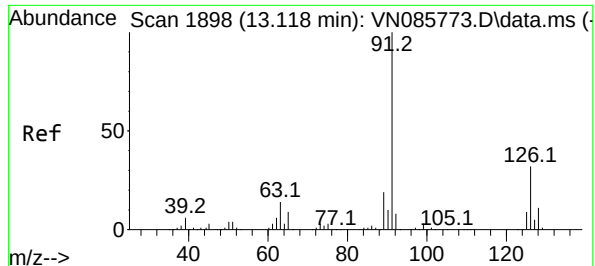
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#78
n-propylbenzene
Concen: 49.565 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 91 Resp: 764927
Ion Ratio Lower Upper
91 100
120 22.9 11.3 33.8





#79

2-Chlorotoluene

Concen: 47.160 ug/l

RT: 13.123 min Scan# 1898

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 91 Resp: 486280

Ion Ratio Lower Upper

91 100

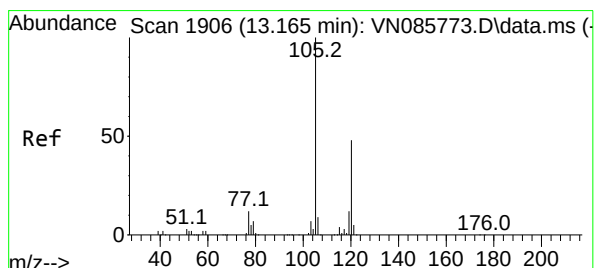
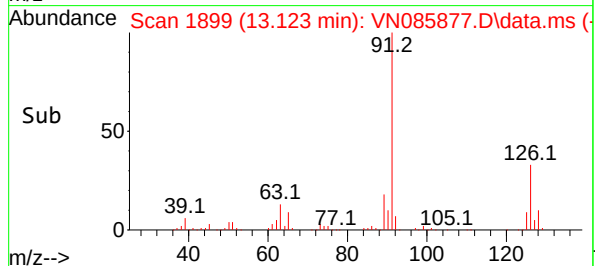
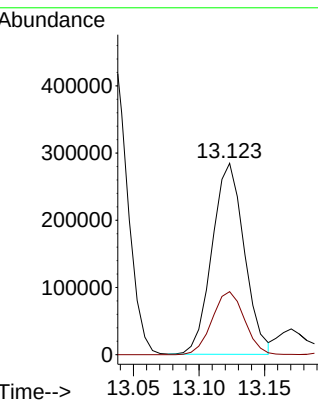
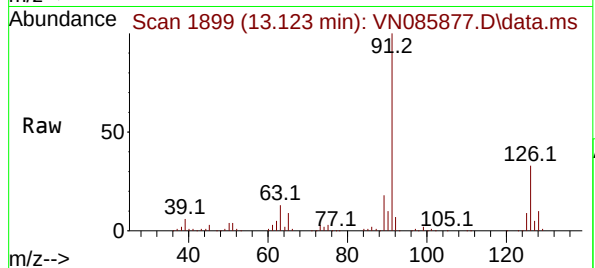
126 33.2 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.301 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VN085877.D

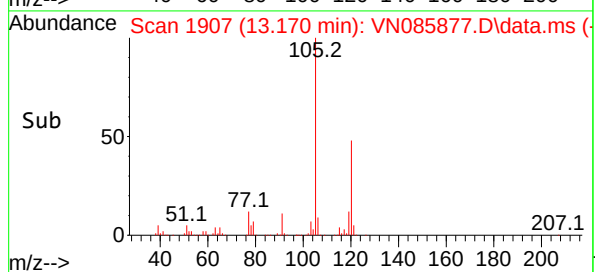
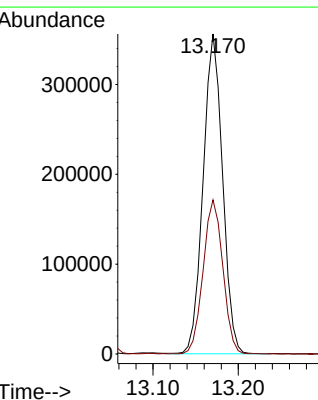
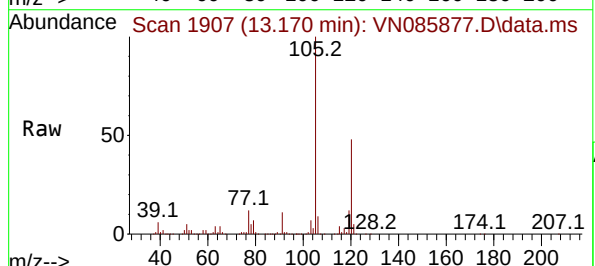
Acq: 26 Feb 2025 17:33

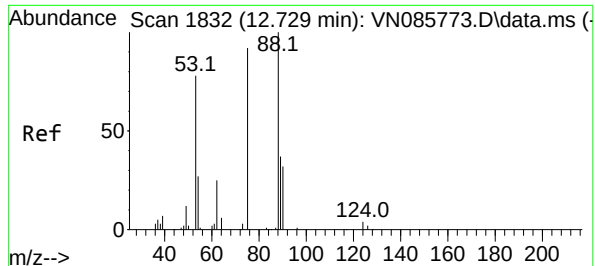
Tgt Ion:105 Resp: 563140

Ion Ratio Lower Upper

105 100

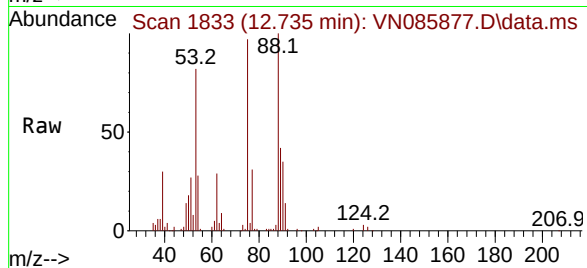
120 49.0 24.3 72.9





#81
trans-1,4-Dichloro-2-butene
Concen: 54.937 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

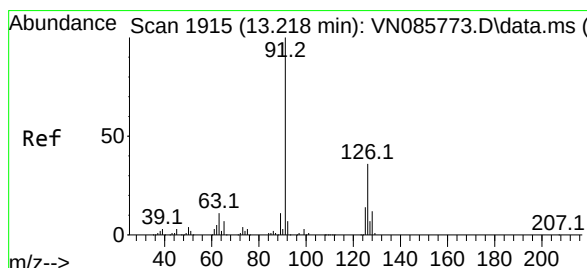
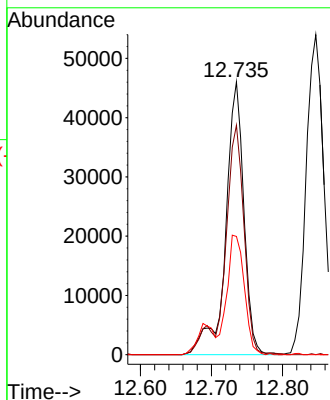
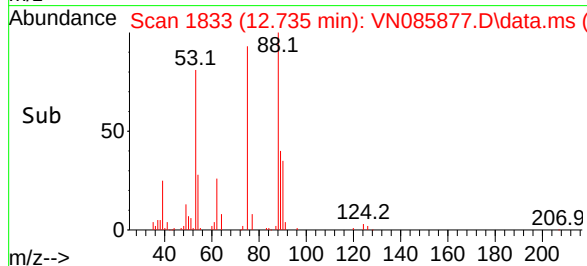
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 75 Resp: 8226
Ion Ratio Lower Upper
75 100
53 78.4 74.2 111.4
89 41.9 34.9 52.3

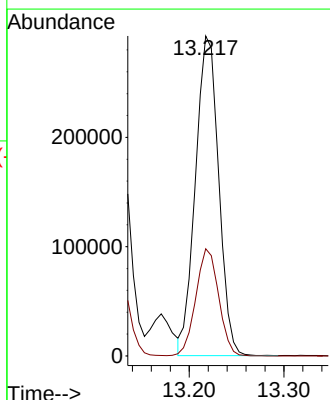
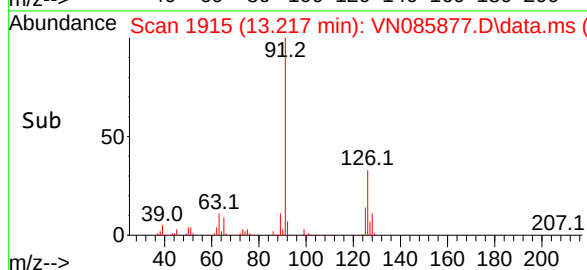
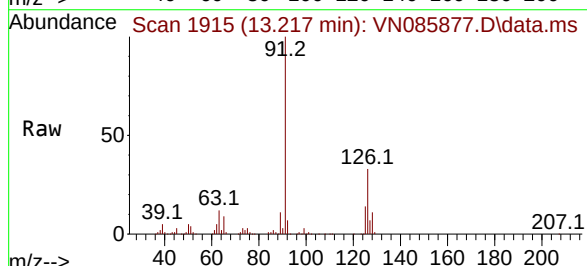
Manual Integrations
APPROVED

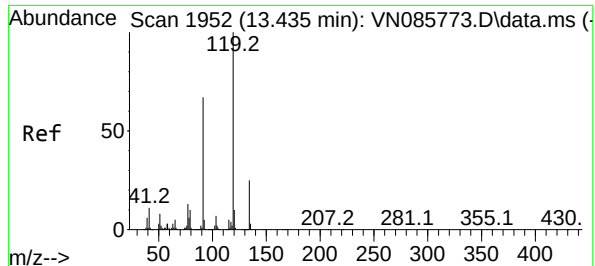
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#82
4-Chlorotoluene
Concen: 48.719 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion: 91 Resp: 498020
Ion Ratio Lower Upper
91 100
126 33.1 16.4 49.4





#83

tert-Butylbenzene

Concen: 50.129 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:119 Resp: 462735

Ion Ratio Lower Upper

119 100

91 66.0 32.5 97.5

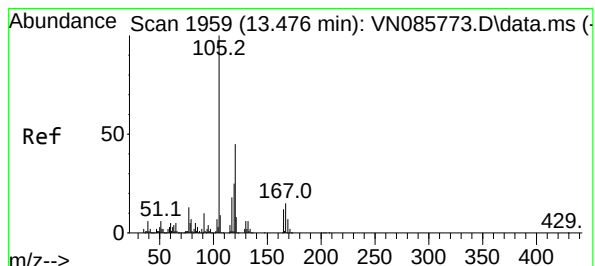
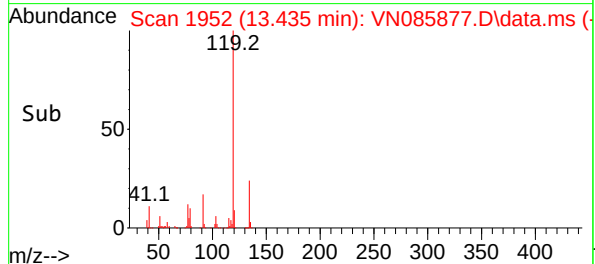
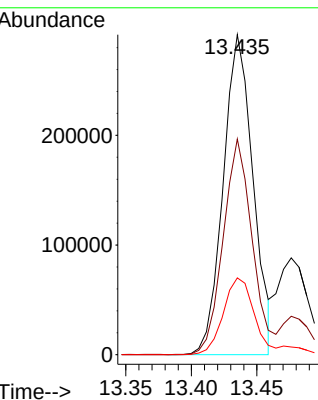
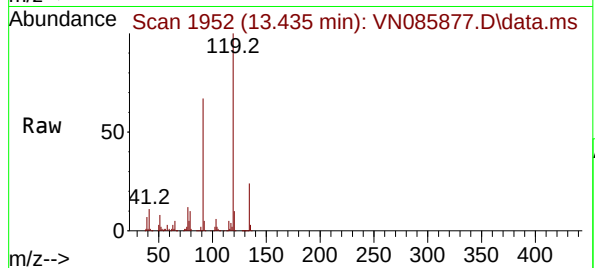
134 24.7 13.3 39.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.205 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085877.D

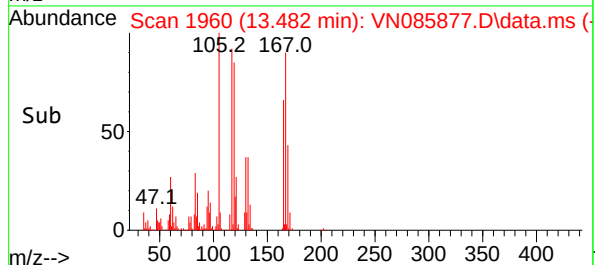
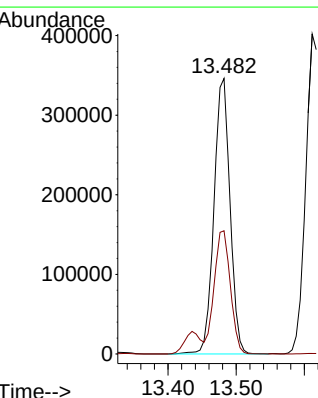
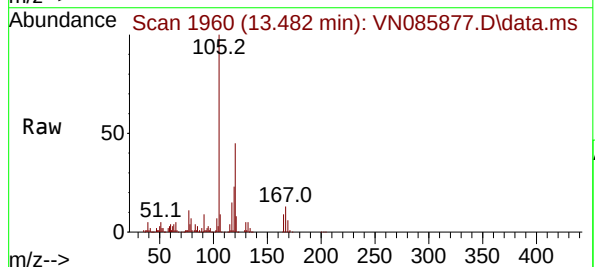
Acq: 26 Feb 2025 17:33

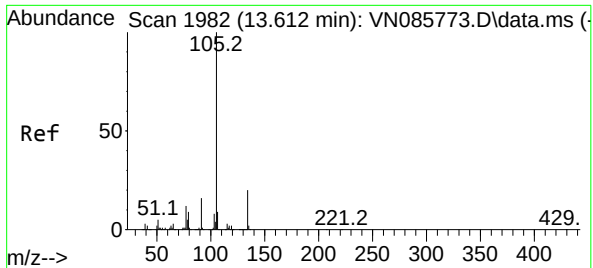
Tgt Ion:105 Resp: 566970

Ion Ratio Lower Upper

105 100

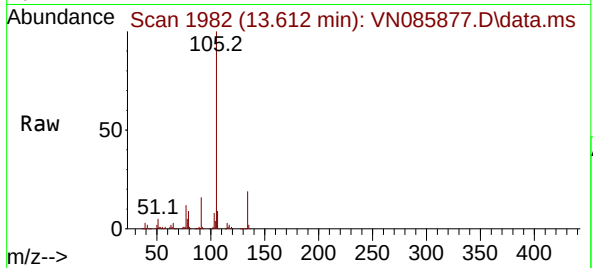
120 45.2 22.4 67.3





#85
sec-Butylbenzene
Concen: 48.769 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

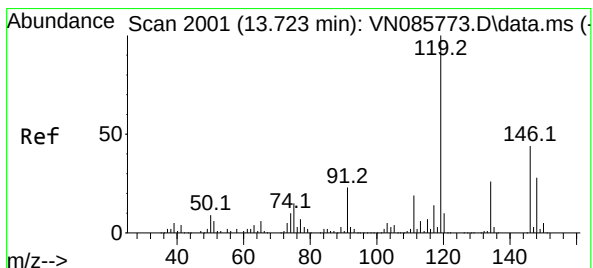
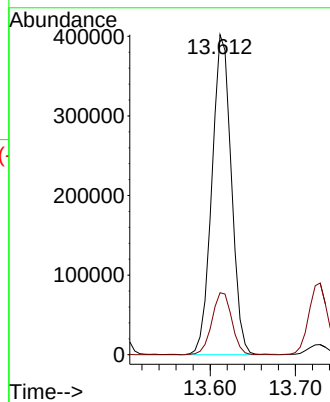
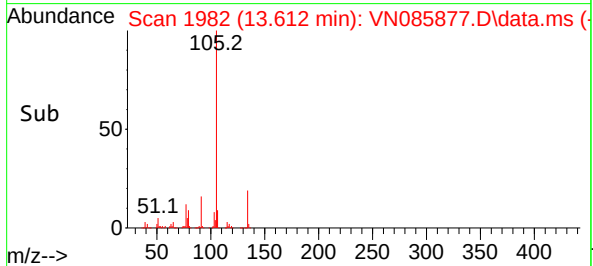
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



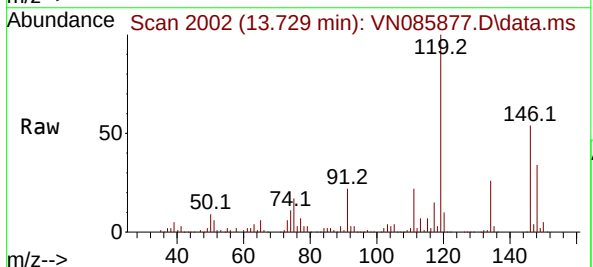
Tgt Ion:105 Resp: 636060
Ion Ratio Lower Upper
105 100
134 19.8 9.8 29.4

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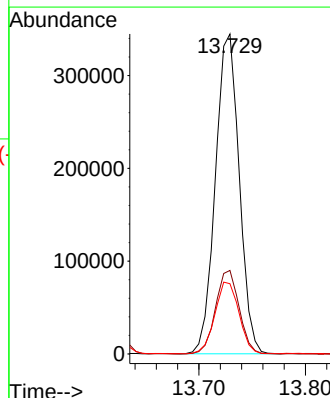
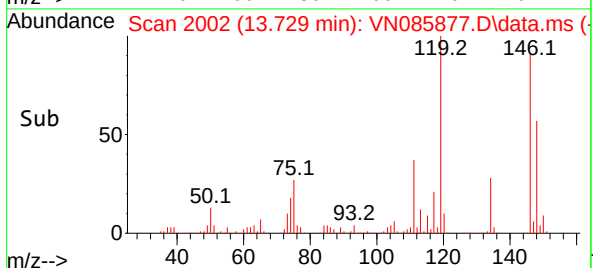
Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

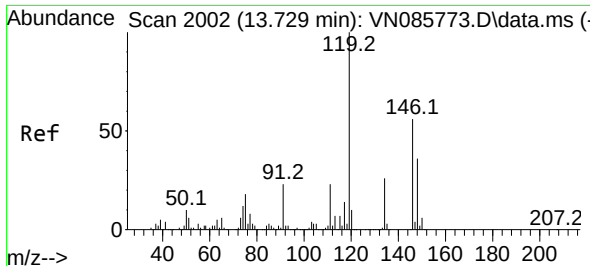


#86
p-Isopropyltoluene
Concen: 45.143 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33



Tgt Ion:119 Resp: 534597
Ion Ratio Lower Upper
119 100
134 25.9 13.0 39.0
91 22.8 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 46.122 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:146 Resp: 314600

Ion Ratio Lower Upper

146 100

111 41.3 21.1 63.3

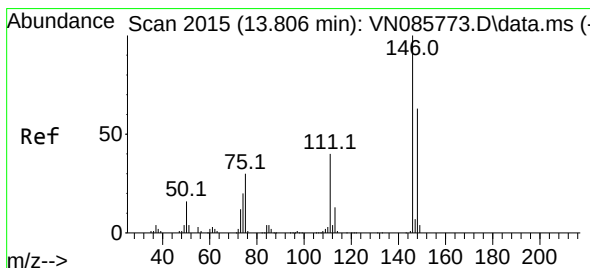
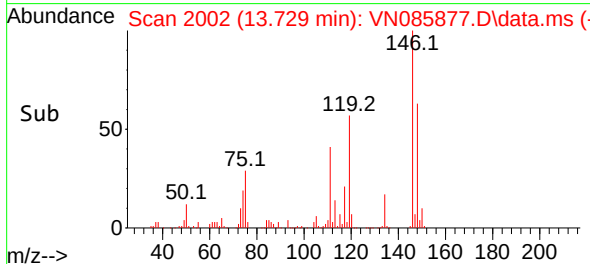
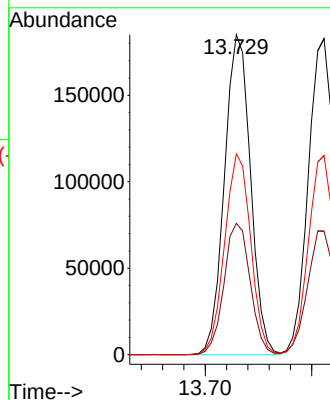
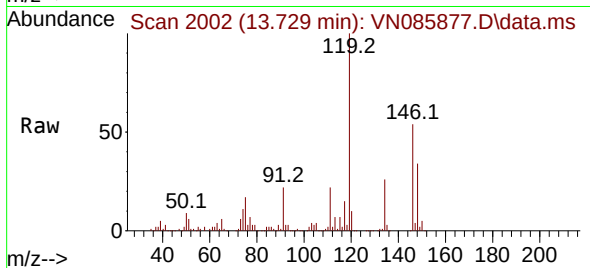
148 62.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#88

1,4-Dichlorobenzene

Concen: 44.961 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

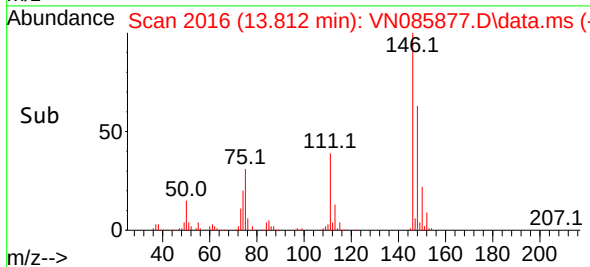
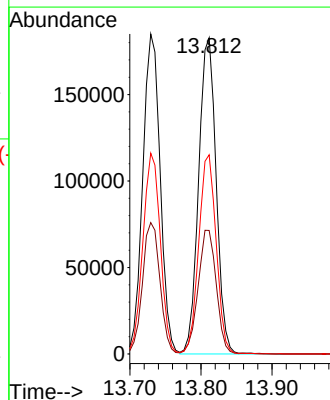
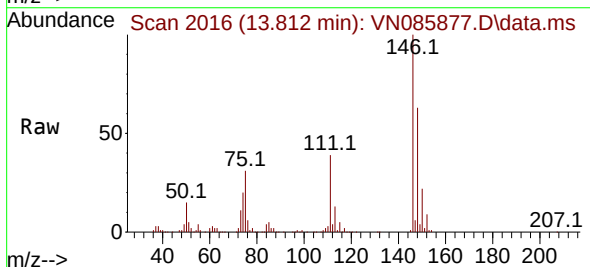
Tgt Ion:146 Resp: 314327

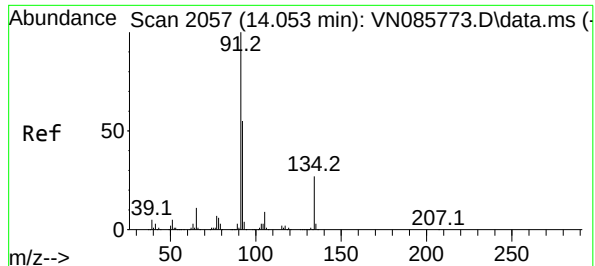
Ion Ratio Lower Upper

146 100

111 40.3 20.4 61.3

148 62.8 31.8 95.4





#89

n-Butylbenzene

Concen: 46.589 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

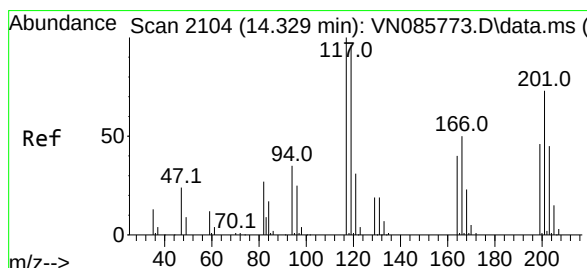
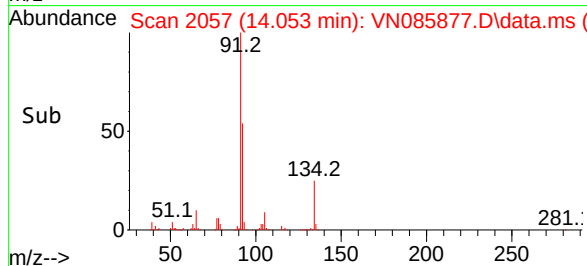
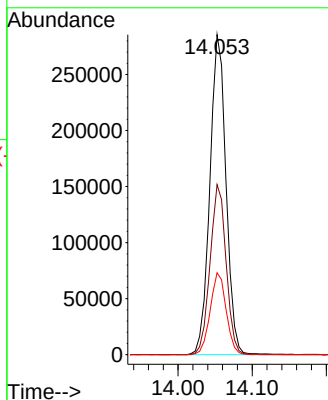
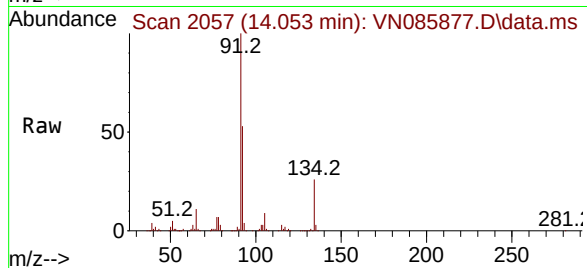
P001-CLAY-CF01-01MSD

Tgt Ion:	91	Resp:	43140
Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.1	81.3
134	25.4	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#90

Hexachloroethane

Concen: 44.363 ug/l

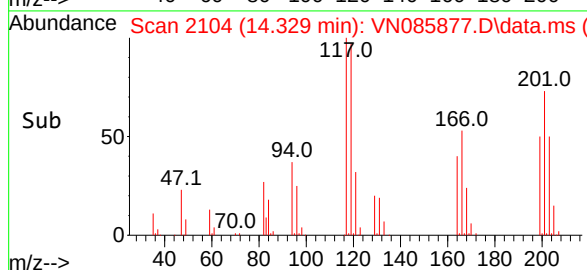
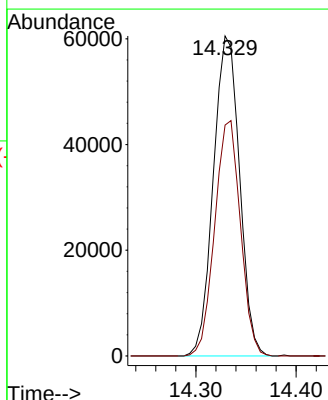
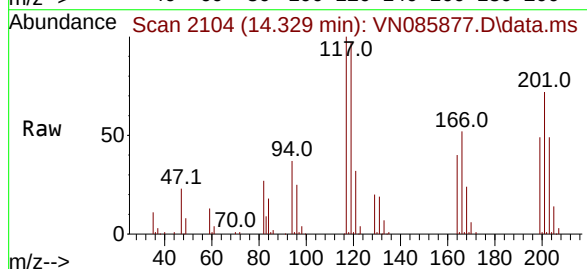
RT: 14.329 min Scan# 2104

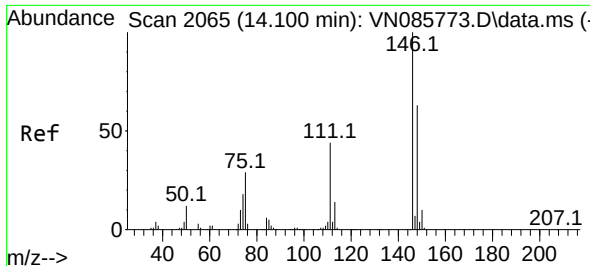
Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Tgt Ion:	117	Resp:	109579
Ion	Ratio	Lower	Upper
117	100		
201	72.2	35.6	106.9





#91

1,2-Dichlorobenzene

Concen: 47.036 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:146 Resp: 30851

Ion Ratio Lower Upper

146 100

111 43.1 21.4 64.3

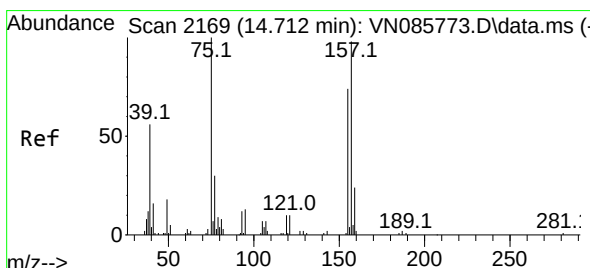
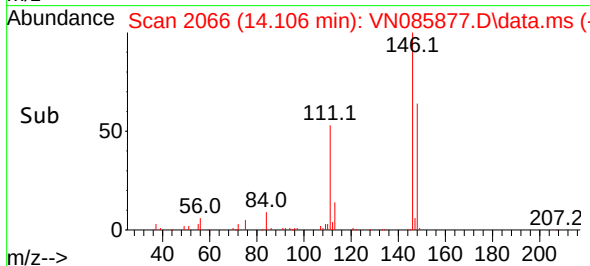
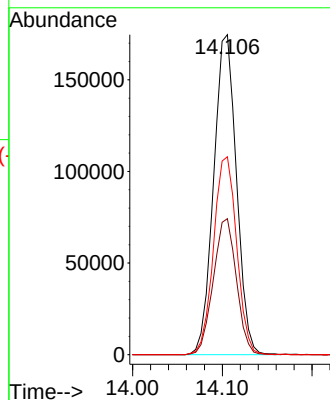
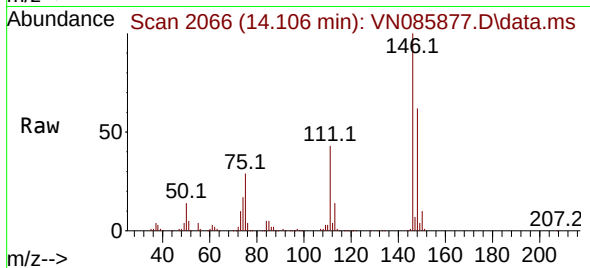
148 62.7 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.232 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

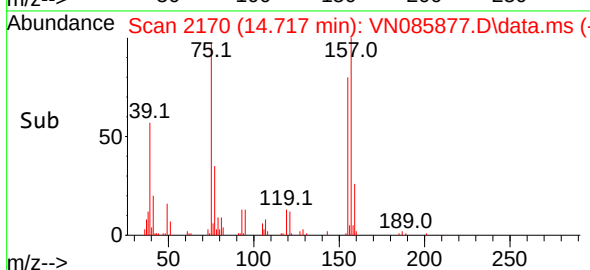
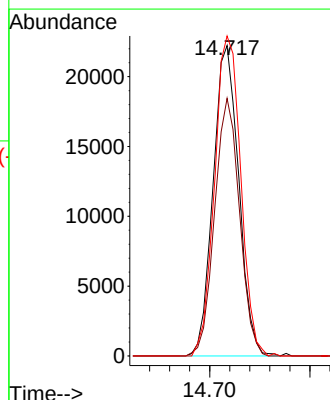
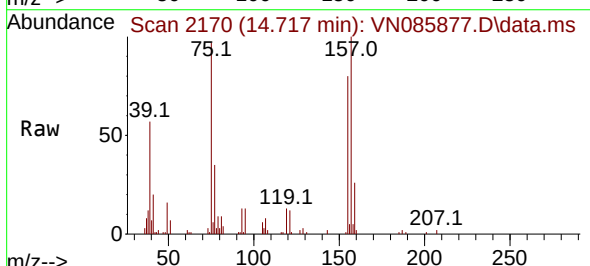
Tgt Ion: 75 Resp: 39367

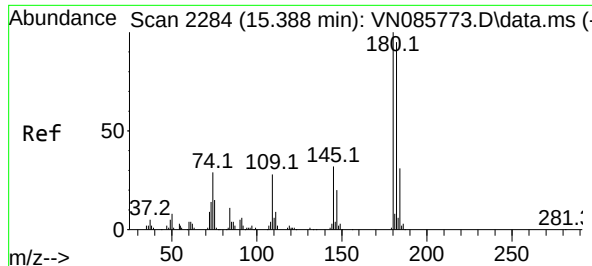
Ion Ratio Lower Upper

75 100

155 80.9 39.9 119.6

157 105.4 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 48.083 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

Instrument :

MSVOA_N

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:180 Resp: 15028

Ion Ratio Lower Upper

180 100

182 94.7 47.3 141.9

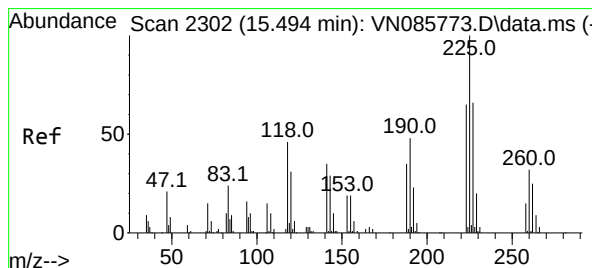
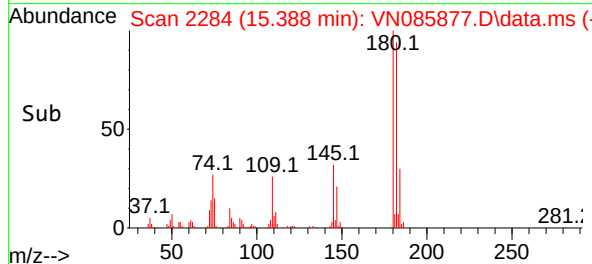
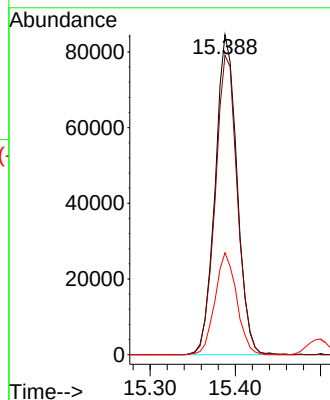
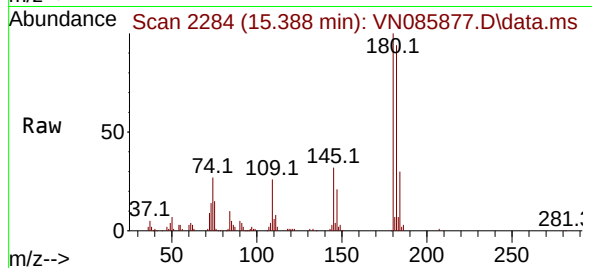
145 31.6 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#94

Hexachlorobutadiene

Concen: 38.745 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN085877.D

Acq: 26 Feb 2025 17:33

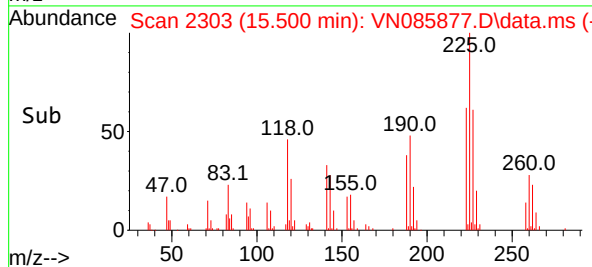
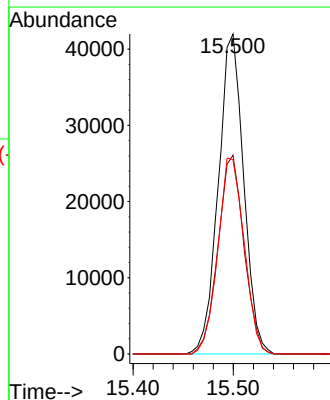
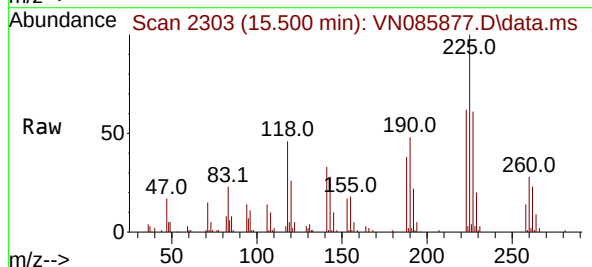
Tgt Ion:225 Resp: 73597

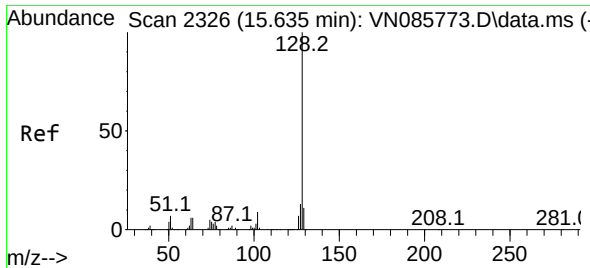
Ion Ratio Lower Upper

225 100

223 63.7 31.9 95.5

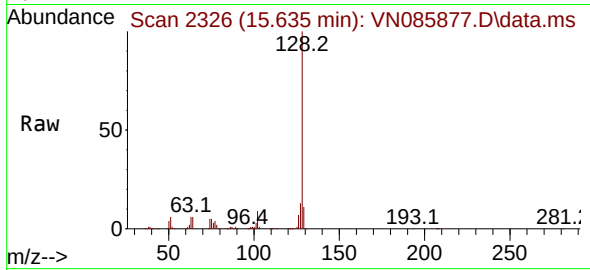
227 63.5 32.2 96.6





#95
Naphthalene
Concen: 54.100 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

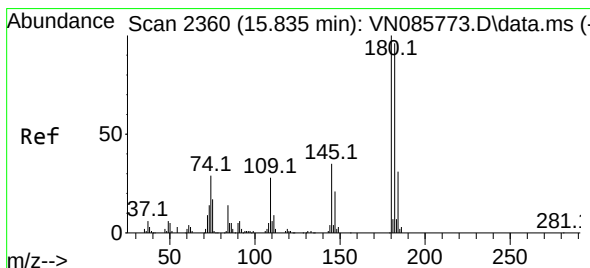
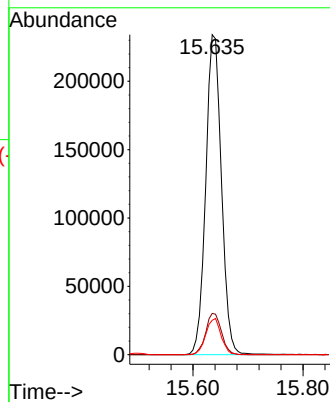
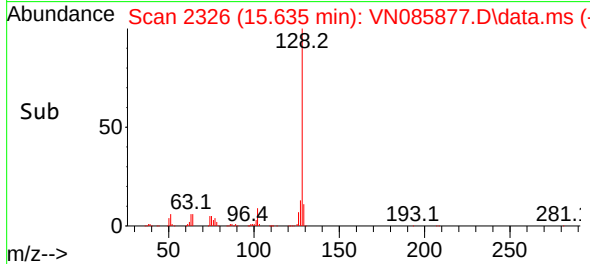
Instrument :
MSVOA_N
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:128 Resp: 464220
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.0 8.7 13.1

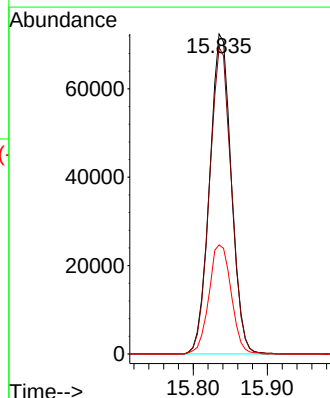
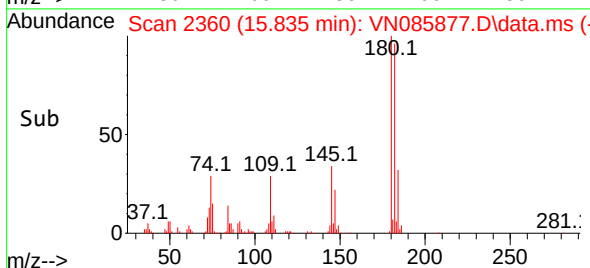
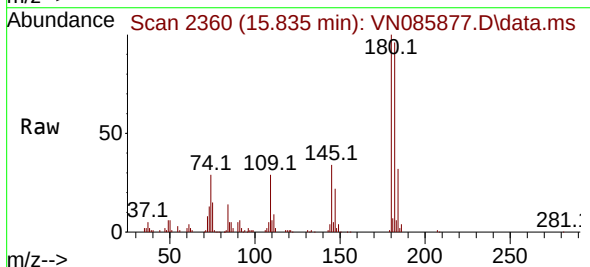
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.866 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085877.D
Acq: 26 Feb 2025 17:33

Tgt Ion:180 Resp: 147055
Ion Ratio Lower Upper
180 100
182 96.8 47.3 141.8
145 35.0 16.9 50.6



Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085772.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:09 AM	MMDadoda	2/19/2025 12:44:43 PM	Peak Integrated by Software
VSTDICCC050	VN085773.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:14 AM	MMDadoda	2/19/2025 12:44:47 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	Vinyl Acetate	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	Vinyl Acetate	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,4-Dichlorobenzene	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	2,2-Dichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Allyl chloride	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Diethyl Ether	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Vinyl Acetate	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC020	VN085779.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:37 AM	MMDadoda	2/19/2025 12:45:09 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085780.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:42 AM	MMDadoda	2/19/2025 12:45:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN022625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085862.D	1,2,3-Trichloropropane	JOHN	2/27/2025 9:27:48 AM	MMDadoda	2/27/2025 12:11:22 PM	Peak Integrated by Software
VN0226WBS01	VN085865.D	1,2,3-Trichloropropane	JOHN	2/27/2025 9:27:52 AM	MMDadoda	2/27/2025 12:11:25 PM	Peak Integrated by Software
Q1421-05MS	VN085876.D	1,2,3-Trichloropropane	JOHN	2/27/2025 9:28:11 AM	MMDadoda	2/27/2025 12:11:38 PM	Peak Integrated by Software
Q1421-06MSD	VN085877.D	1,2,3-Trichloropropane	JOHN	2/27/2025 9:28:15 AM	MMDadoda	2/27/2025 12:11:39 PM	Peak Integrated by Software
VSTDCCC050	VN085878.D	1,2,3-Trichloropropane	JOHN	2/27/2025 9:28:19 AM	MMDadoda	2/27/2025 12:11:40 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM
Supervise By	Maresh Dadoda	Supervise On	2/19/2025 1:34:51 PM
SubDirectory	VN021825	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133068		
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP133076		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085771.D	18 Feb 2025 10:35	JC\MD	Ok
2	VSTDICC100	VN085772.D	18 Feb 2025 11:09	JC\MD	Ok,M
3	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	JC\MD	Ok,M
4	VSTDICC020	VN085774.D	18 Feb 2025 11:56	JC\MD	Not Ok
5	VSTDICC010	VN085775.D	18 Feb 2025 12:20	JC\MD	Ok,M
6	VSTDICC005	VN085776.D	18 Feb 2025 12:43	JC\MD	Ok,M
7	VSTDICC001	VN085777.D	18 Feb 2025 13:07	JC\MD	Ok,M
8	IBLK	VN085778.D	18 Feb 2025 13:54	JC\MD	Ok
9	VSTDICC020	VN085779.D	18 Feb 2025 14:18	JC\MD	Ok,M
10	VSTDICV050	VN085780.D	18 Feb 2025 16:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022625

Review By	John Carlone	Review On	2/27/2025 9:33:10 AM
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:11:47 PM
SubDirectory	VN022625	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133158		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133159,VP133160		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085861.D	26 Feb 2025 10:08	JC\MD	Ok
2	VSTDCCC050	VN085862.D	26 Feb 2025 10:32	JC\MD	Ok,M
3	VN0226MBL01	VN085863.D	26 Feb 2025 11:11	JC\MD	Ok
4	VN0226WBL01	VN085864.D	26 Feb 2025 12:09	JC\MD	Ok
5	VN0226WBS01	VN085865.D	26 Feb 2025 12:33	JC\MD	Ok,M
6	VN0226WBSD01	VN085866.D	26 Feb 2025 13:07	JC\MD	Ok,M
7	Q1426-01	VN085867.D	26 Feb 2025 13:31	JC\MD	Not Ok
8	PB166862TB	VN085868.D	26 Feb 2025 13:55	JC\MD	Ok
9	Q1421-04	VN085869.D	26 Feb 2025 14:20	JC\MD	Ok
10	Q1421-08	VN085870.D	26 Feb 2025 14:44	JC\MD	Ok
11	Q1421-10	VN085871.D	26 Feb 2025 15:08	JC\MD	Ok
12	IBLK	VN085872.D	26 Feb 2025 15:33	JC\MD	Ok
13	Q1426-01	VN085873.D	26 Feb 2025 15:57	JC\MD	Ok
14	Q1449-01	VN085874.D	26 Feb 2025 16:21	JC\MD	Not Ok
15	IBLK	VN085875.D	26 Feb 2025 16:45	JC\MD	Ok
16	Q1421-05MS	VN085876.D	26 Feb 2025 17:09	JC\MD	Ok,M
17	Q1421-06MSD	VN085877.D	26 Feb 2025 17:33	JC\MD	Ok,M
18	VSTDCCC050	VN085878.D	26 Feb 2025 17:57	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM
Supervise By	Maresh Dadoda	Supervise On	2/19/2025 1:34:51 PM
SubDirectory	VN021825	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085771.D	18 Feb 2025 10:35		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085772.D	18 Feb 2025 11:09	Comp.#43 is on Linear Regression	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	Comp.#56,58,70,86 is on Quadratic Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085774.D	18 Feb 2025 11:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN085775.D	18 Feb 2025 12:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085776.D	18 Feb 2025 12:43	%D failed for Comp. #58 in 01PPB, 05PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085777.D	18 Feb 2025 13:07		JC\MD	Ok,M
8	IBLK	IBLK	VN085778.D	18 Feb 2025 13:54		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN085779.D	18 Feb 2025 14:18		JC\MD	Ok,M
10	VSTDICV050	ICVVN021825	VN085780.D	18 Feb 2025 16:28	ICV Failed for comp. #95	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022625

Review By	John Carlone	Review On	2/27/2025 9:33:10 AM
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:11:47 PM
SubDirectory	VN022625	HP Acquire Method	HP Processing Method 82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133158
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133159,VP133160

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085861.D	26 Feb 2025 10:08		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085862.D	26 Feb 2025 10:32	V13516	JC\MD	Ok,M
3	VN0226MBL01	VN0226MBL01	VN085863.D	26 Feb 2025 11:11		JC\MD	Ok
4	VN0226WBL01	VN0226WBL01	VN085864.D	26 Feb 2025 12:09		JC\MD	Ok
5	VN0226WBS01	VN0226WBS01	VN085865.D	26 Feb 2025 12:33		JC\MD	Ok,M
6	VN0226WBSD01	VN0226WBSD01	VN085866.D	26 Feb 2025 13:07		JC\MD	Ok,M
7	Q1426-01	50453	VN085867.D	26 Feb 2025 13:31	Need Straight Run	JC\MD	Not Ok
8	PB166862TB	PB166862TB	VN085868.D	26 Feb 2025 13:55		JC\MD	Ok
9	Q1421-04	P001-CLAY-CF01-01	VN085869.D	26 Feb 2025 14:20	vial A pH#6.0	JC\MD	Ok
10	Q1421-08	P001-CLAY-CF01-02	VN085870.D	26 Feb 2025 14:44	vial A pH#6.0	JC\MD	Ok
11	Q1421-10	P001-CLAY-CF02-01	VN085871.D	26 Feb 2025 15:08	vial A pH#6.0	JC\MD	Ok
12	IBLK	IBLK	VN085872.D	26 Feb 2025 15:33		JC\MD	Ok
13	Q1426-01	50453	VN085873.D	26 Feb 2025 15:57	vial A pH<2	JC\MD	Ok
14	Q1449-01	MW2	VN085874.D	26 Feb 2025 16:21	Need Straight Run	JC\MD	Not Ok
15	IBLK	IBLK	VN085875.D	26 Feb 2025 16:45		JC\MD	Ok
16	Q1421-05MS	P001-CLAY-CF01-01M	VN085876.D	26 Feb 2025 17:09	vial A pH#6.0	JC\MD	Ok,M
17	Q1421-06MSD	P001-CLAY-CF01-01M	VN085877.D	26 Feb 2025 17:33	vial A pH#6.0	JC\MD	Ok,M
18	VSTDCCC050	VSTDCCC050EC	VN085878.D	26 Feb 2025 17:57		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN022625

Review By	John Carlone	Review On	2/27/2025 9:33:10 AM
Supervise By	Mahesh Dadoda	Supervise On	2/27/2025 12:11:47 PM
SubDirectory	VN022625	HP Acquire Method	HP Processing Method 82N021825W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133158		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133159,VP133160		

M : Manual Integration

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SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : ZHE-1
TCLP Filter ID : 50223706

Start Prep Date : 02/25/2025 Time : 14:00
End Prep Date : 02/26/2025 Time : 07:15
Combination Ratio : 20
ZHE Cleaning Batch : N/A
Initial Room Temperature: 23 °C
Final Room Temperature: 22 °C
TCLP Technician Signature : JP
Supervisor By : 12

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
DI WATER	N/A	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling. Tumbler ZHE-1 checked, 30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/26/25 11:00	JP TCLP Room	JP 100C 204
	Preparation Group	Analysis Group

SPLP EXTRACTION LOGPAGE

PB166862

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep
PB166862TB	LEB862	14	N/A	500	N/A	N/A	N/A	5.03	N/A	ZHE-1
Q1421-04	P001-CLAY-CF01-01	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1421-05	Q1421-04MS	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1421-06	Q1421-04MSD	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1421-08	P001-CLAY-CF01-02	12	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1421-10	P001-CLAY-CF02-01	13	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dr Solids
PB166862TB	LEB862	N/A	N/A	N/A	N/A	N/A	N/A
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	100	N/A
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	100	N/A
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	100	N/A
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	100	N/A
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp zhe q1421

WorkList ID : 187870

Department : TCLP Extraction

Date : 02-25-2025 10:59:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-04	P001-CLAY-CF01-01	Solid	SPLP ZHE Ext	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-05	Q1421-04MS	Solid	SPLP ZHE Ext	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-06	Q1421-04MSD	Solid	SPLP ZHE Ext	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-08	P001-CLAY-CF01-02	Solid	SPLP ZHE Ext	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-10	P001-CLAY-CF02-01	Solid	SPLP ZHE Ext	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312

Date/Time 02/25/25 12:00

Raw Sample Received by: JB (WCI)

Raw Sample Relinquished by: JD (SM)

Q1421-SPLP VOA

Date/Time 02/25/25 16:00

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: JB (WCI)

Prep Standard - Chemical Standard Summary

Order ID : Q1421

Test : SPLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VN022625,

Standard ID :

VP130430,VP131746,VP131767,VP132035,VP132096,VP132613,VP133036,VP133158,VP133159,VP133160,

Chemical ID :

V13391,V13446,V13457,V13460,V13465,V13466,V13707,V14145,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,V14872,V14873,V14874,V14875,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
09/26/2024								

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/23/2024								

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/27/2024								

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
12/12/2024								

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								01/29/2025

FROM 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 +
1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 +
1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = Final
Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133036	02/14/2025	03/13/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								02/18/2025

FROM 1.00000ml of V14872 + 1.00000ml of V14873 + 1.00000ml of V14874 + 1.00000ml of V14875 + 21.00000ml of V14624 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP133158	02/26/2025	02/27/2025	John Carlone	None	None	Maresh Dadoda
								02/28/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133159	02/26/2025	02/27/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 + 0.01250ml of VP133036 = Final Quantity: 40.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133160	02/26/2025	02/27/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132613 + 0.01250ml of VP133036 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220563	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14872

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

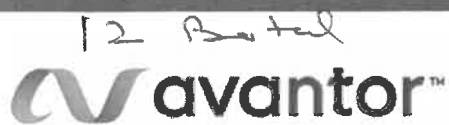
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



Certified Reference Material CRM

5 114

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: AcroleinSolvent(s):
Water Lot# 072324Q

Dec 02/14/25

V14872 to
V14876

021325	
Formulated By: Anthony Mahoney	DATE
021325	
Reviewed By: Pedro L. Rentas	DATE

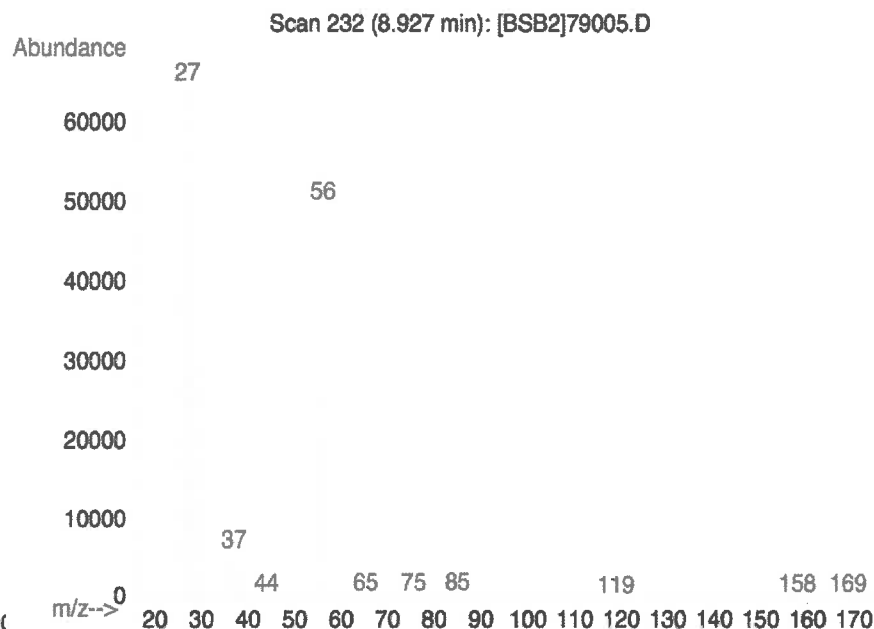
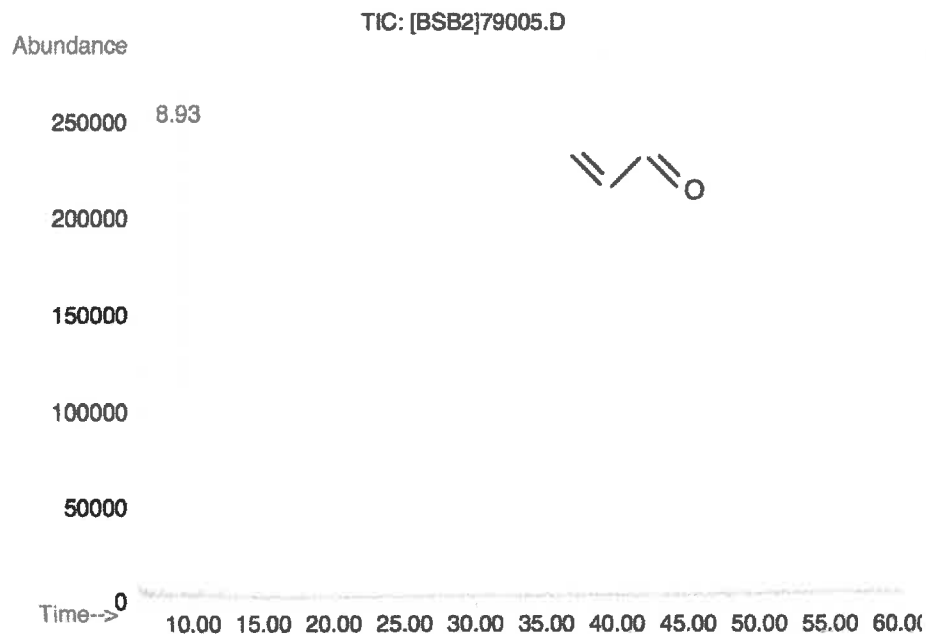
Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Expanded SDS information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

5 114

Dec 02/14/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Solvent(s):
Water

Lot#

072324Q

✓ 14872 to
✓ 14876

Expiration Date: 031325

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

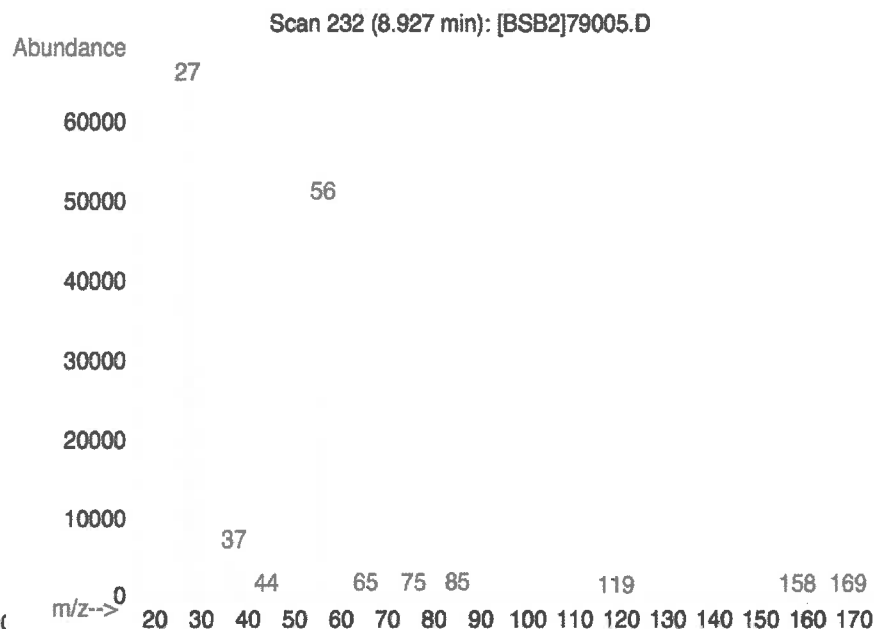
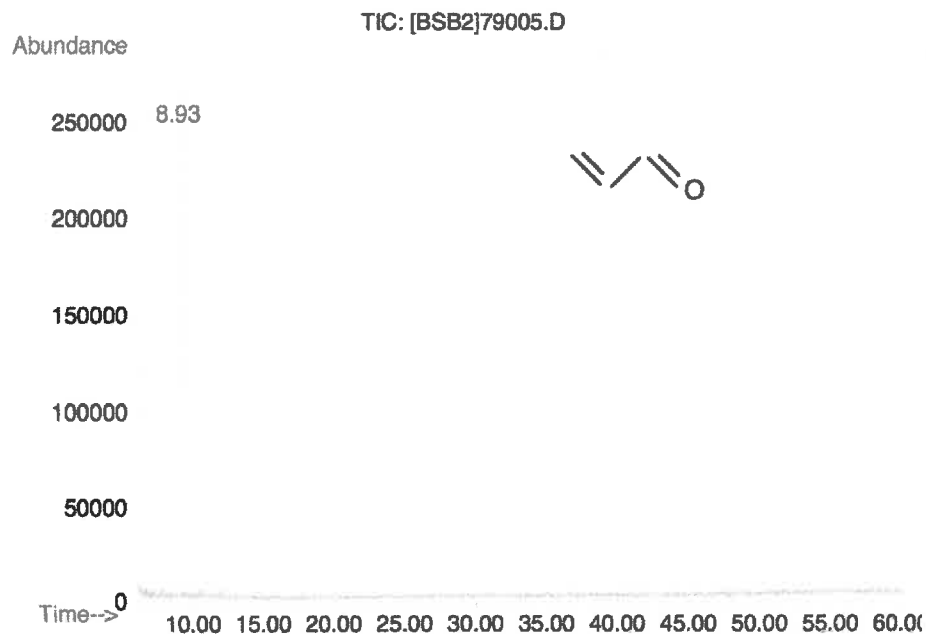
Weight(s) shown below were combined and diluted to (mL): 10.0

0.001 Flask Uncertainty

		021325
Formulated By:	Anthony Mahoney	DATE
		021325
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

5 114

Dec 02/14/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Solvent(s):
Water

Lot#
072324Q

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

✓ 14872 to
✓ 14876

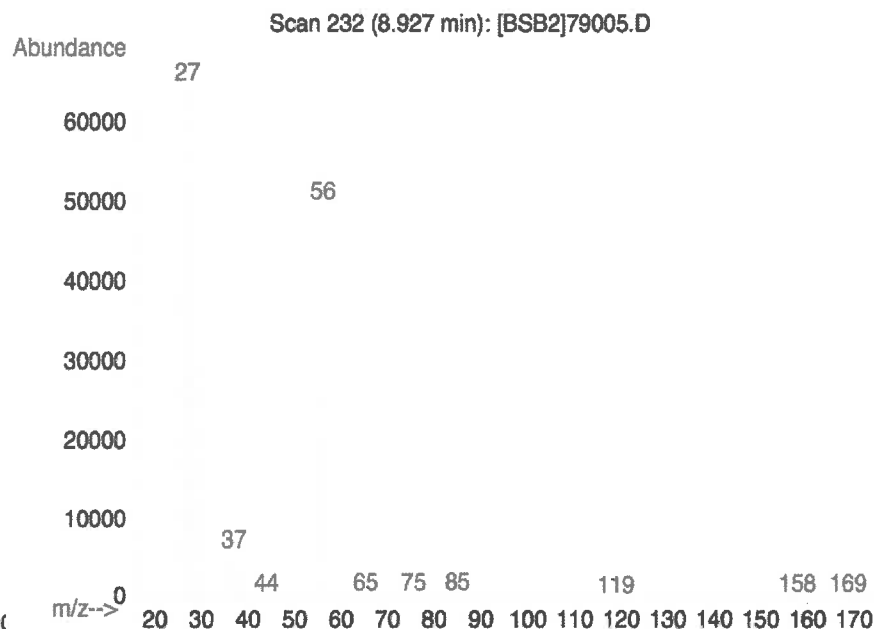
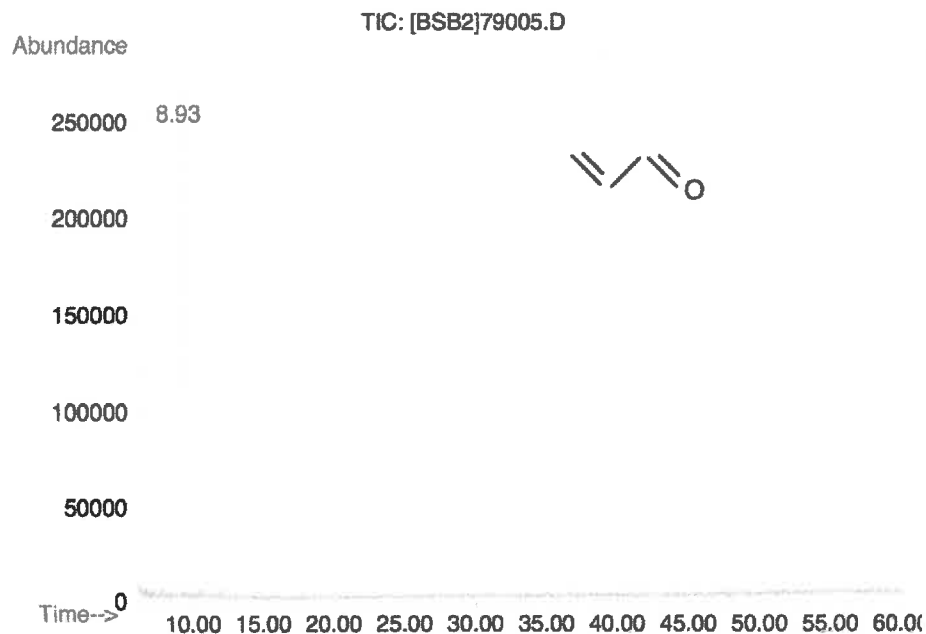
		021325
Formulated By:	Anthony Mahoney	DATE
		021325
Reviewed By:	Pedro L. Rentas	DATE

Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

5 114

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: AcroleinSolvent(s):
Water Lot# 072324QDec 02/14/25
✓ 14872 to
✓ 14876

021325	
Formulated By: Anthony Mahoney	DATE
021325	
Reviewed By: Pedro L. Rentas	DATE

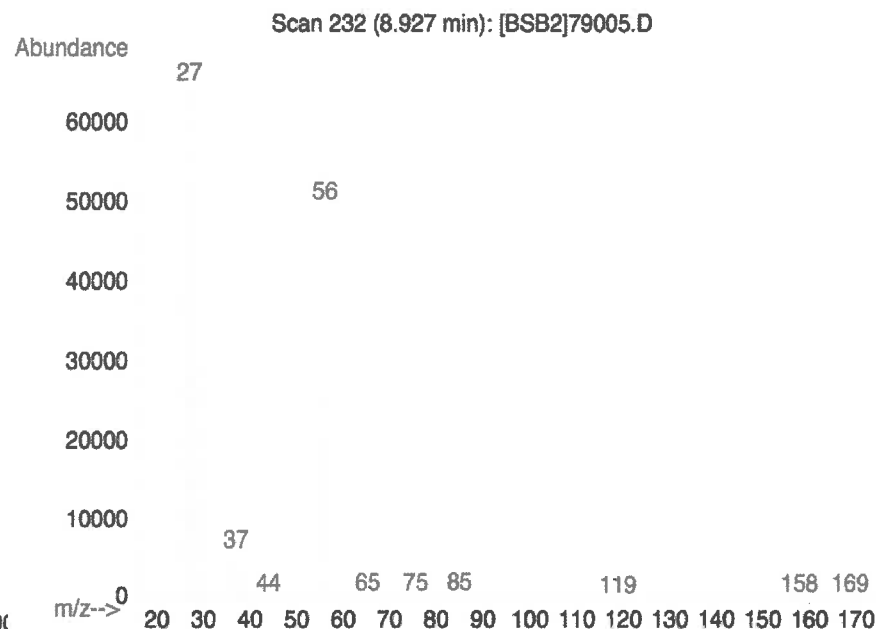
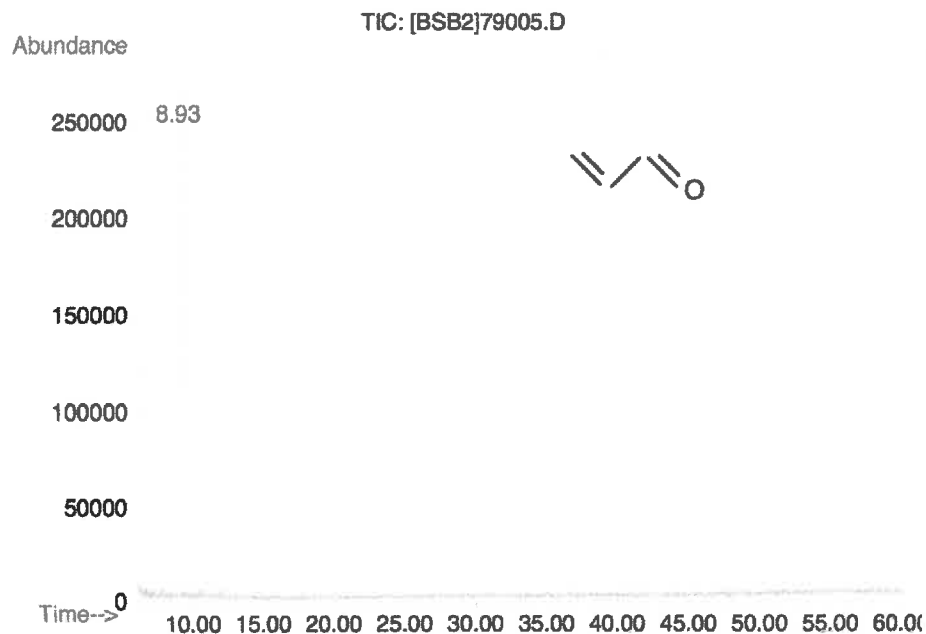
Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Expanded
SDS information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (°C)
Normal Concentration (µg/mL): 2000
NIST Test ID#: 6173
5C-05 Balance Uncertainty
0.021
100.0
Reviewed By: Pedro L. Romas
021624
DATE
Formulated By: President Chairman
021624
DATE

Weight(s) shown below were combined and diluted to (mL):

Compound	Purity	Uncertainty	Weight(s)	Actual	Conc (µg/mL)	Uncertainty	Expanded	SDS Information
(Solvent Safety Info. On Attached pg.)								
Lot	Dr.	Factor	Vol. (mL)	Conc. (µg/mL)	Purity	Uncertainty	Weight(s)	Actual

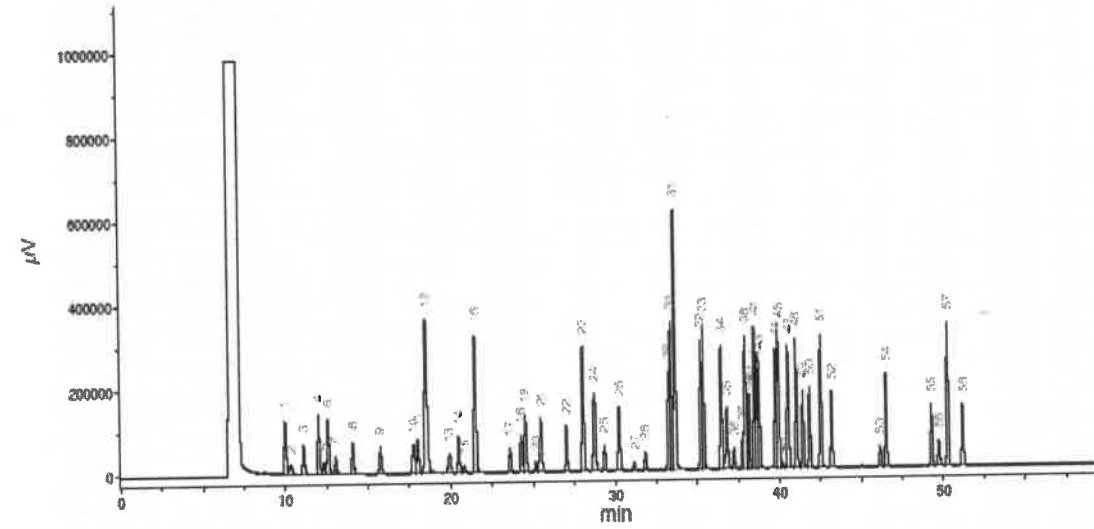
1. Acetone	0.024	NA	2000	98.99	0.2	NA	0.20007	2001.3	8.1	75.06-8	40 ppm (75mg/mL) (lab)	or-tat 240mg
2. Allyl chloride (3-Chloropropene)	(035)	12336	NA	NA	NA	NA	0.20007	2001.6	8.2	75.05-1	1 ppm (15mg/mL) (lab)	or-tat 120mg
3. Carbon disulfide	(0060)	MKC08561	NA	NA	99.99	0.2	NA	0.20007	2001.6	75.05-1	4 ppm (15mg/mL) (lab)	or-tat 120mg
4. cis-1,4-Dichloro-2-butene	(1169)	14718E	NA	NA	95	0.2	NA	0.21068	2001.1	8.1	75.05-1	or-tat 120mg
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	96.5	0.2	NA	0.20731	2001.7	8.4	110-57-6	NA
6. Diethyl ether	(0153)	MKB045000K	NA	NA	99.9	0.2	NA	0.20040	2001.5	8.1	80-29-7	NA
7. Ethyl methacrylate	(0361)	06128PX	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	110-57-6	NA
8. Isodurethane	(0469)	SBF0718V	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	80-29-7	NA
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	98.5	0.2	NA	0.20106	2001.5	8.2	74-86-4	or-tat 1400mg
10. Methylacrylonitrile	(0442)	00427ET	NA	NA	99	0.2	NA	0.20207	2001.4	8.1	75-89-1	or-tat 120mg
11. Methyl methacrylate	(1075)	SBF05137V	NA	NA	99.9	0.2	NA	0.20040	2001.5	8.1	96-33-3	or-tat 277mg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	98.9	0.2	NA	0.20040	2001.5	8.1	96-33-3	or-tat 277mg
13. Nitrobenzene	(0268)	01213TV	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	80-66-8	or-tat 120mg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	80-66-8	or-tat 120mg
15. Perfluorooctane	(0450)	HG401	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
16. 1,1,2-Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
17. Bromochloromethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
18. Dichloromethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
19. cis-1,2-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
20. trans-1,2-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
21. Methylene chloride	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
22. 1,1-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
23. Bromoform	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
24. Carbon tetrachloride	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
25. Chloroform	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
26. Dichloromethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
27. 1,1-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
28. 2,2-Dichloropropane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
29. 1,1,2-Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
30. 1,1,1-Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
31. 1,1-Dichloro-2-chloropropane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
32. 1,2-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
33. 1,2-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
34. 1,2-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
35. 1,1-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
36. 1,1-Dichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
37. cis-1,3-Dichloropropane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
38. trans-1,3-Dichloropropane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
39. Hexachloro-1,3-butadiene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
40. 1,1,2-Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
41. 1,1,2-Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
42. 1,1,2-Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
43. Trichloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
44. 1,2,3-Trichloropropane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
45. Benzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
46. Bromochloroethane	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
47. n-Butyl benzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
48. sec-Butyl benzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
49. Ethyl benzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
50. Isopropyl benzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
51. Methylbenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
52. Toluene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
53. 1,2,3-Trichlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
54. 1,2,4-Trichlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
55. 1,2,4-Trichlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
56. 1,3,5-Trimethylbenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
57. m-Xylene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
58. sec-Butyl benzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
59. Chlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
60. 2-Chlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
61. 4-Chlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
62. 1,2-Dichlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
63. 1,2-Dichlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
64. 1,3-Dichlorobenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
65. Isopropylbenzene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
66. o-Xylene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg
67. p-Xylene	(0474)	18830	NA	NA	98	0.2	NA	0.20040	2001.5	8.1	76-46-9	or-tat 120mg

* The certified value is the concentration calculated from gravimetric and volumetric measurements within laboratory control.
* Standards are prepared in gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* All Standards, after opening amples, should be stored with caps tightly and under appropriate laboratory conditions.
* Uncertainty: Relative Standard Deviation (RSD) for each component is calculated as a percentage of the certified value.
NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.48
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropene	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

<i>Prashant Chauhan</i>		021624
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentes</i>		021624
Reviewed By:	Pedro L. Rentes	DATE

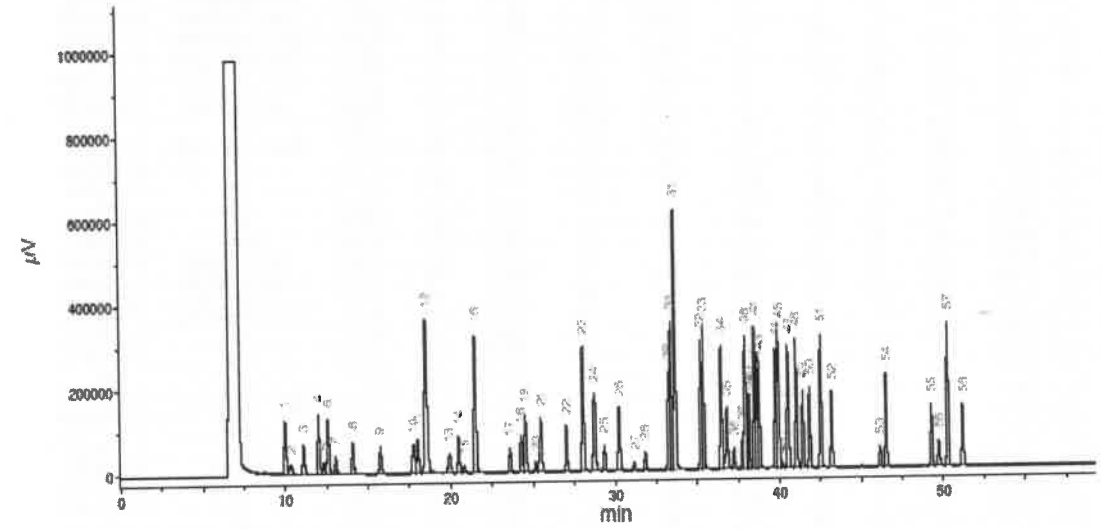
Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
Flask Uncertainty

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 7000mg/kg
3. Carbon disulfide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	5HBF6718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 70mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2400mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-30-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.8	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 1235mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	100 ppm	or-rat 725mg/kg
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	107-06-2	50 ppm (8H)	or-rat 870mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 4900mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	200										

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	16.00
11	cis-1,2-Dichloroethane	16.46
12	Methacrylonitrile/methyl acrylate/Chloroform	16.91
13	Isobutane/1,1,1-Trichloroethane	20.46
14	1,1-Dichloropropane	20.79
15	Carbon tetrachloride	21.49
16	Benzene/1,2-Dichloroethane	23.58
17	Trichloroethane	24.38
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloromethane	25.46
21	Dibromomethane/2-Hydropropane	27.02
22	cis-1,3-Dichloropropene	28.05
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,3-Dichloropropene	29.34
25	1,1,2-Trichloroethane	30.24
26	Tetrachloroethene/1,3-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	31.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.56
31	m-Xylene/p-Xylene	35.22
32	o-Xylene	35.39
33	Styrene	36.18
34	Isopropylbenzene/Bromoforn	36.80
35	cis-1,4-Dichloro-3-butene	37.23
36	1,1,2,2-Tetrachloroethane	37.77
37	1,2,3-Trichloropropane	37.93
38	n-Propylbenzene	38.05
39	trans-1,4-Dichloro-3-butene	38.14
40	Bromobenzene	38.80
41	1,3,5-Trimethylbenzene	38.82
42	2-Chlorotoluene	38.77
43	4-Chlorotoluene	39.74
44	tert-Butylbenzene	39.91
45	1,2,4-Trimethylbenzene	40.17
46	Pentachloroethane	40.52
47	sec-Butylbenzene	41.02
48	p-Isopropyltoluene	41.42
49	1,3-Dichlorobenzene	41.83
50	1,4-Dichlorobenzene	43.18
51	n-Butylbenzene	46.12
52	1,2-Dichlorobenzene	46.46
53	1,2-Dibromo-3-chloropropane	49.26
54	Nitrobenzene	49.72
55	1,2,4-Trichlorobenzene	50.26
56	Hexachlorobutadiene	51.16
57	Naphthalene	
58	1,2,3-Trichlorobenzene	

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

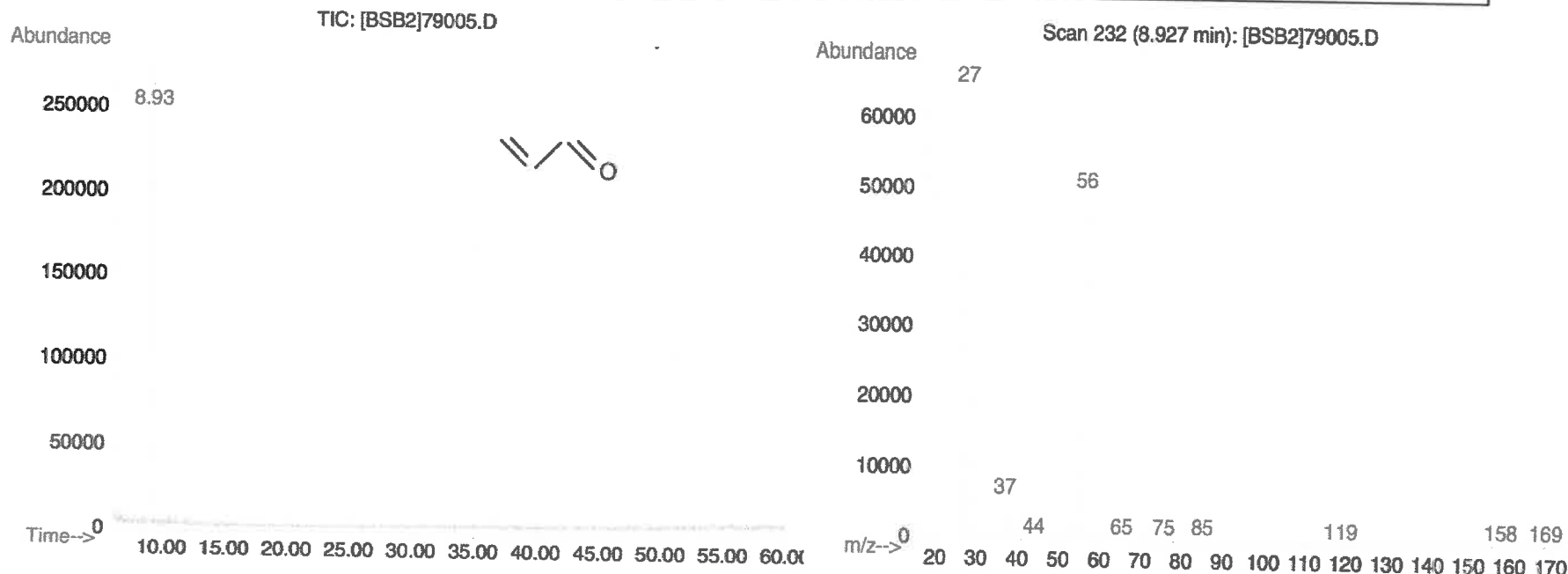
Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water
Lot#
072324Q

Formulated By:	Justin Dippold
091424 DATE	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s): **Water**
Lot#: **072324Q**

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

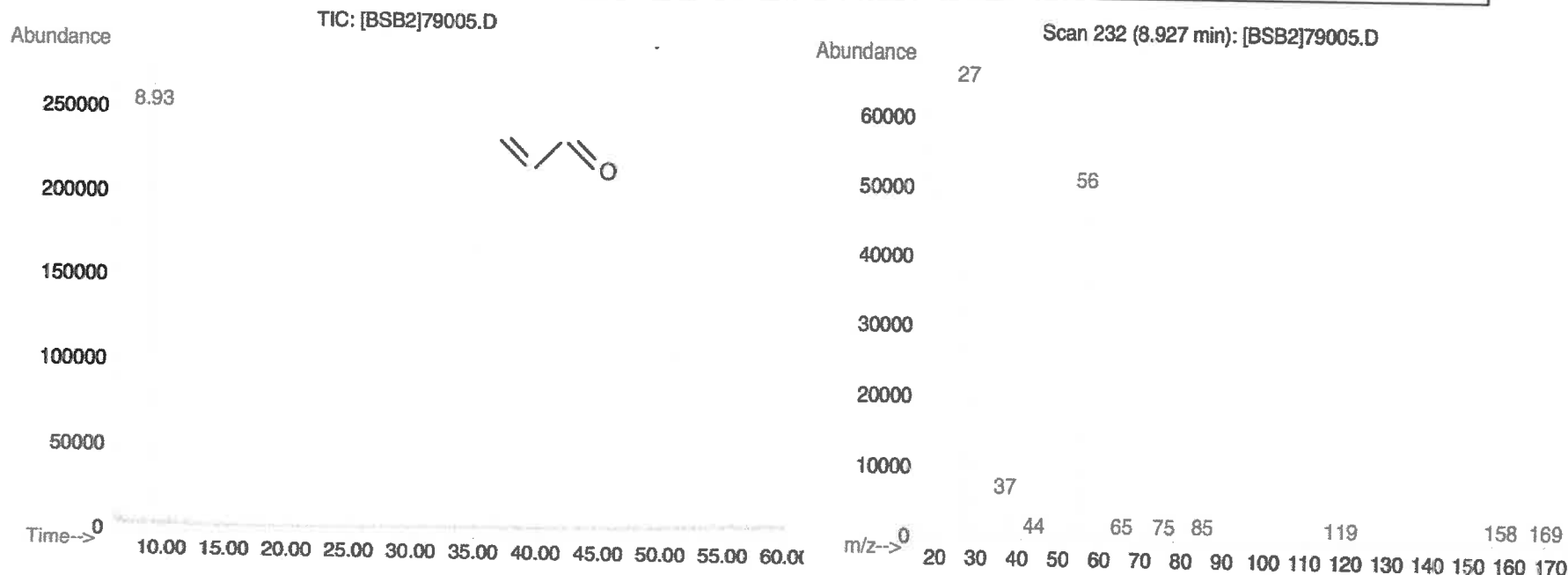
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

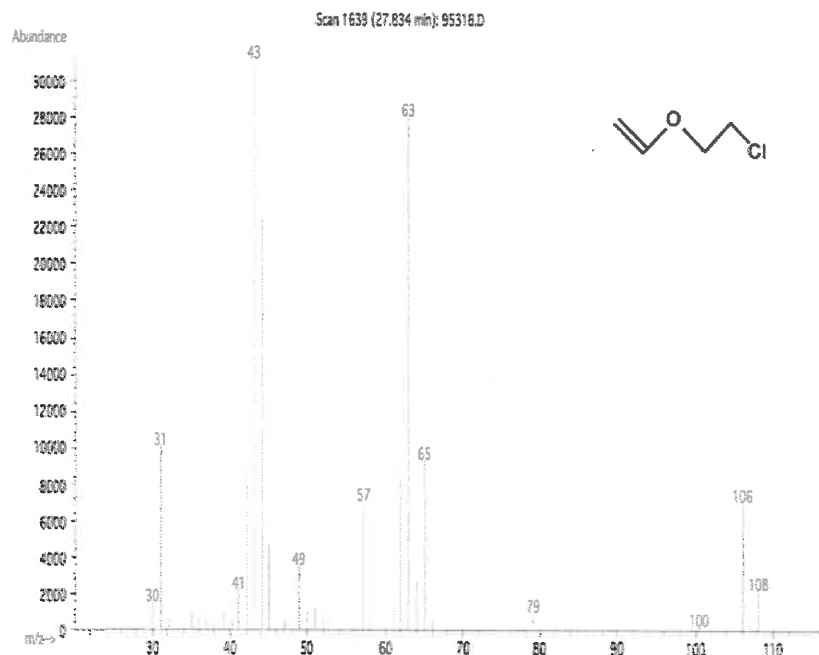
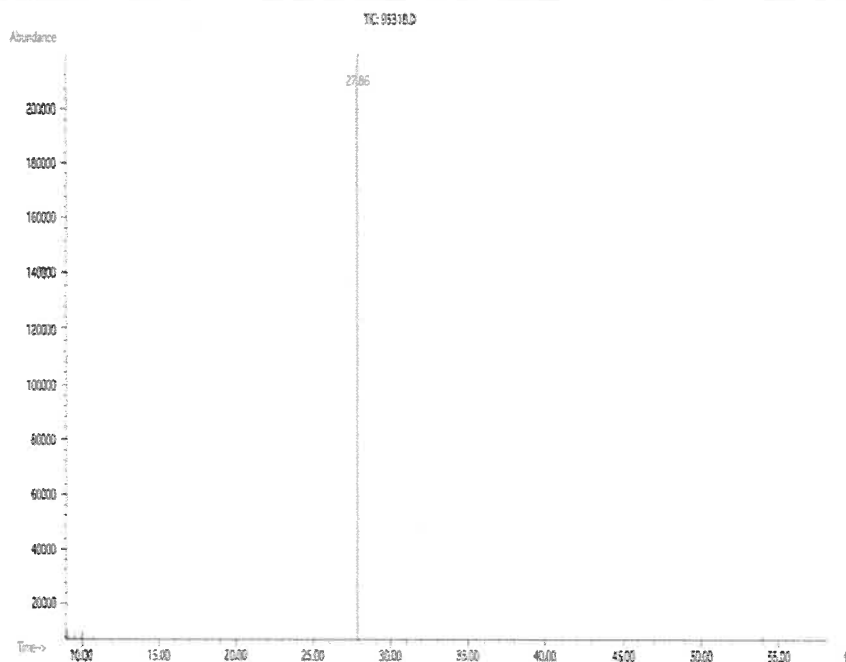
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

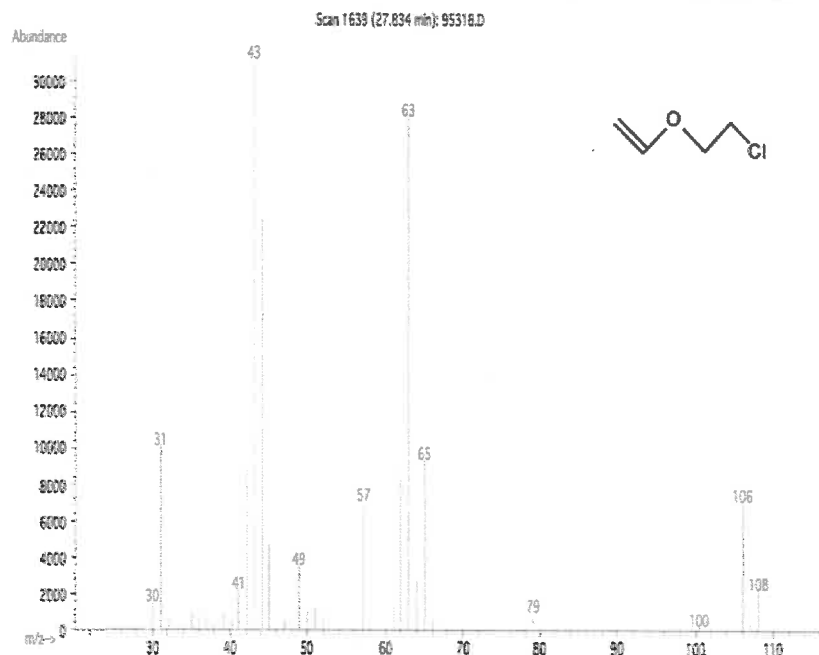
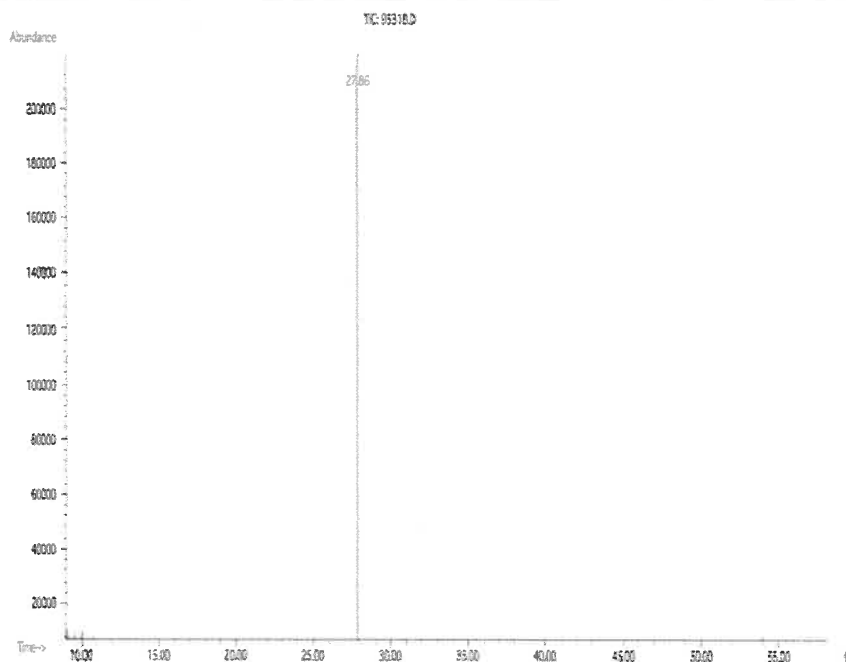
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

See 1216124
20 vial
V14630 to
V14649

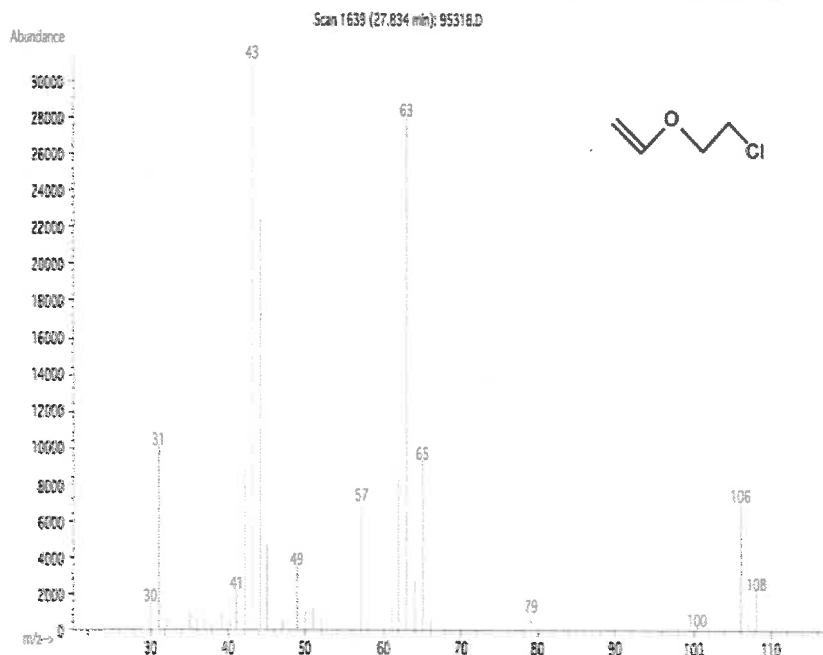
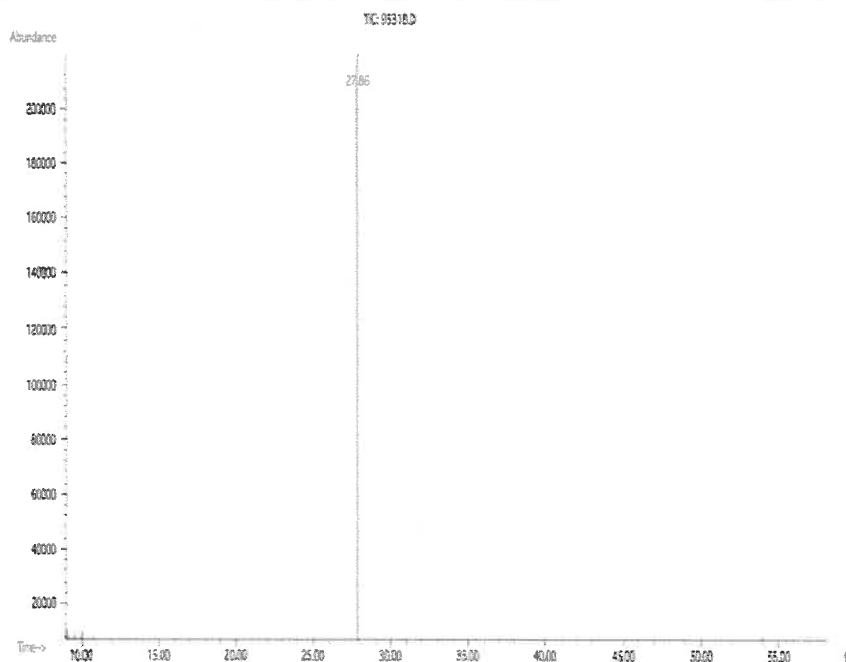
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

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	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
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If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

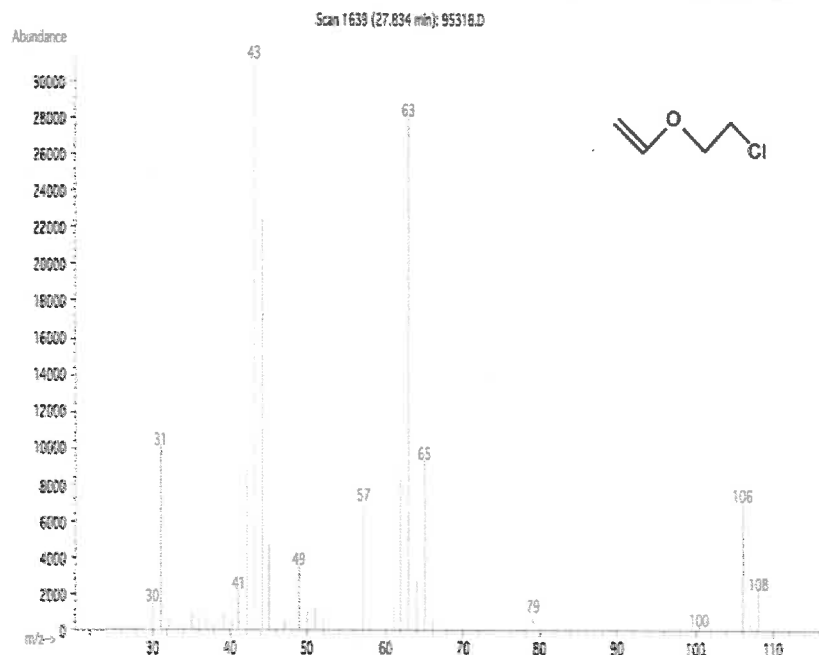
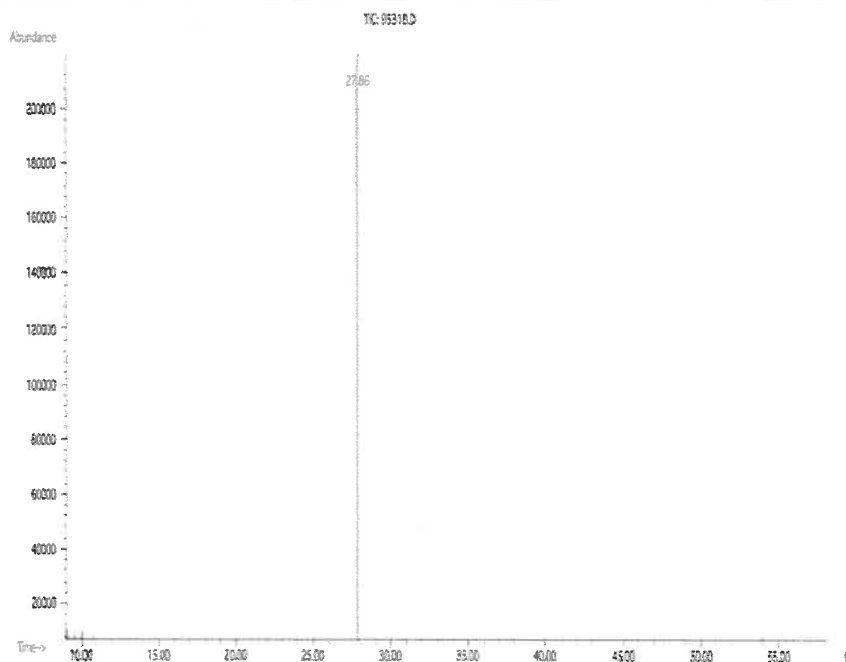
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0181905
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 28, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

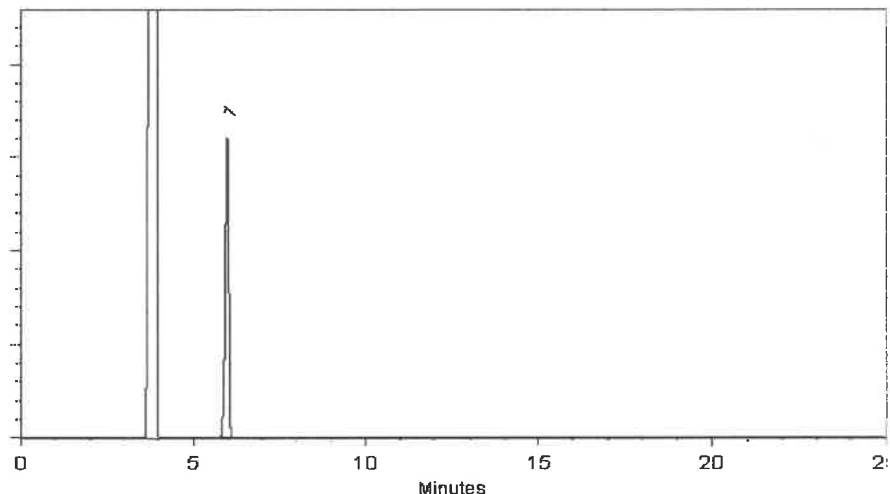
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022

Balance: B442140311

Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

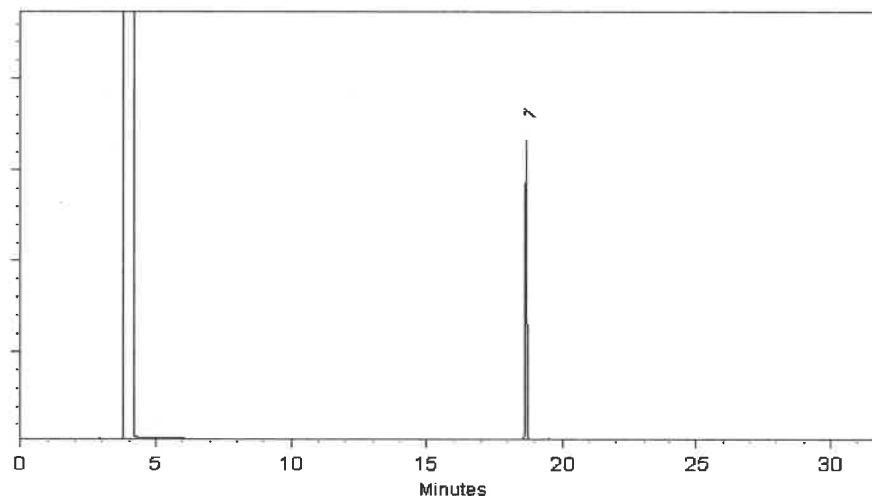
FID

Split Vent:

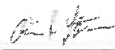
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

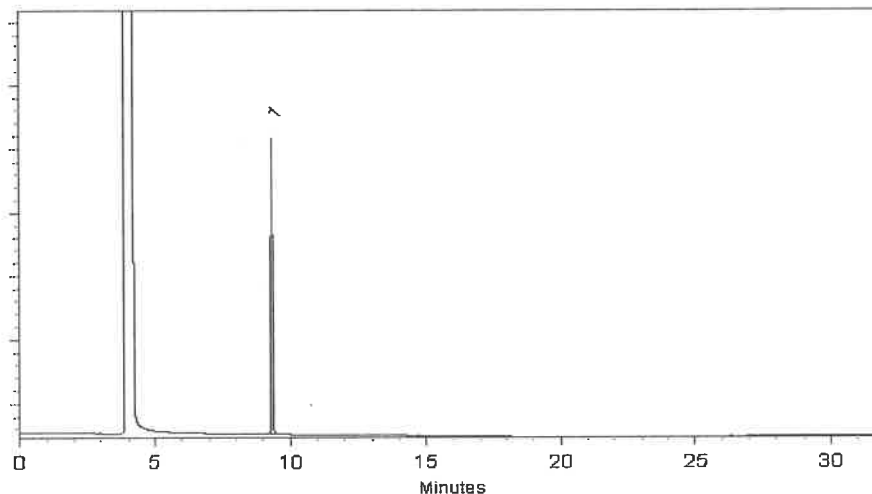
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

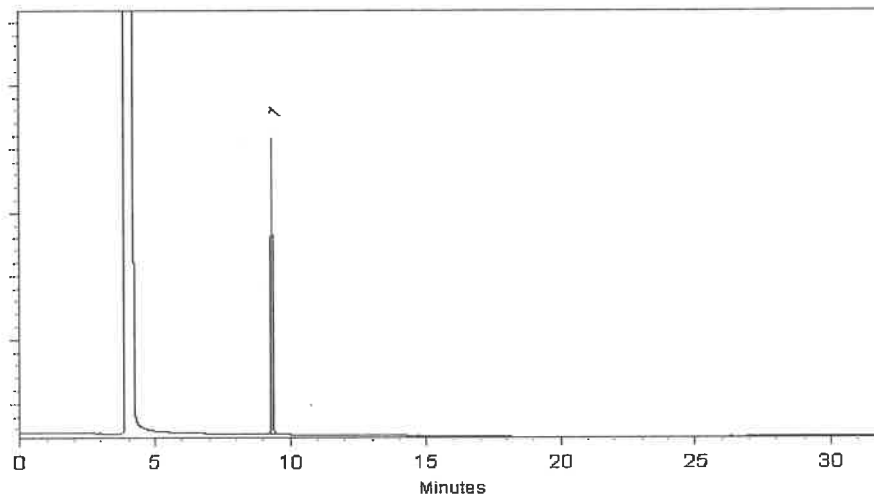
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

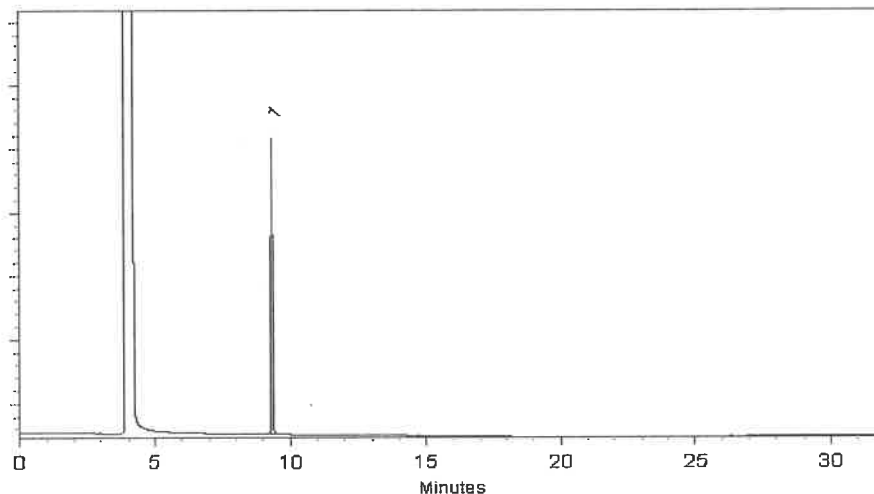
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

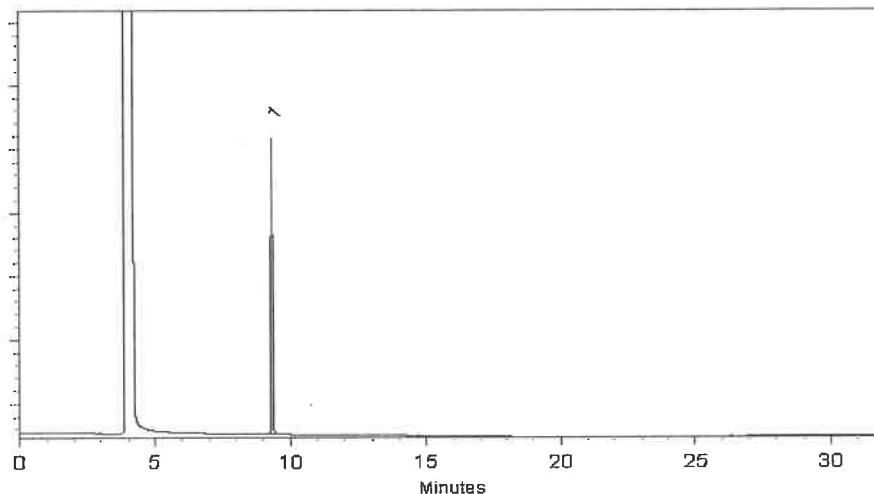
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

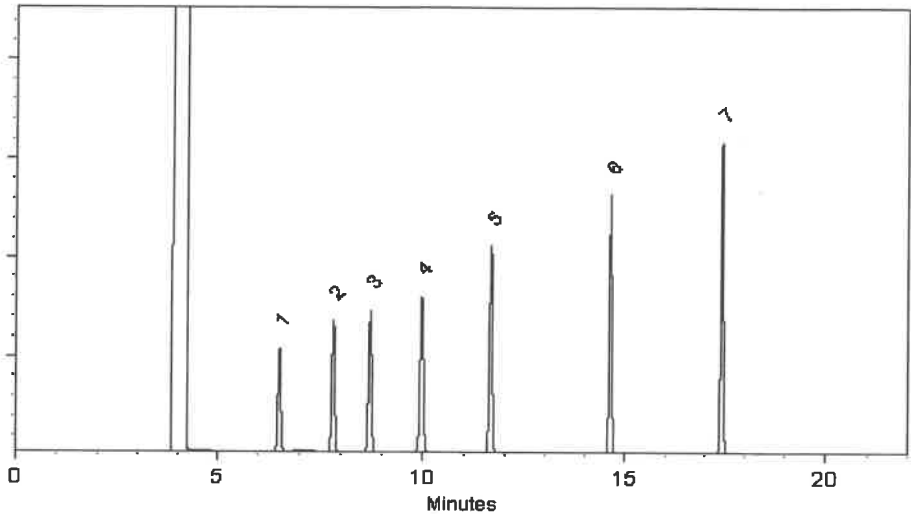
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

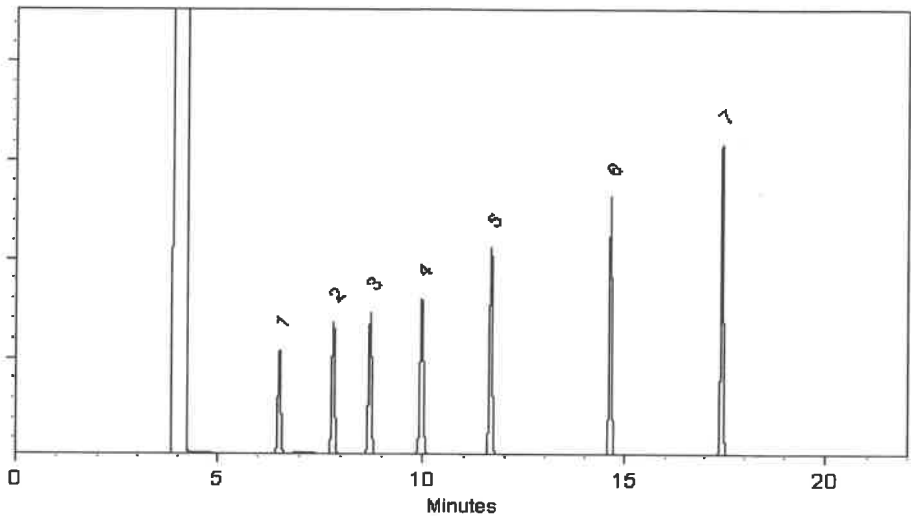
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

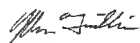
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek America, Inc. 11/15/24

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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Dec 12/17/24
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

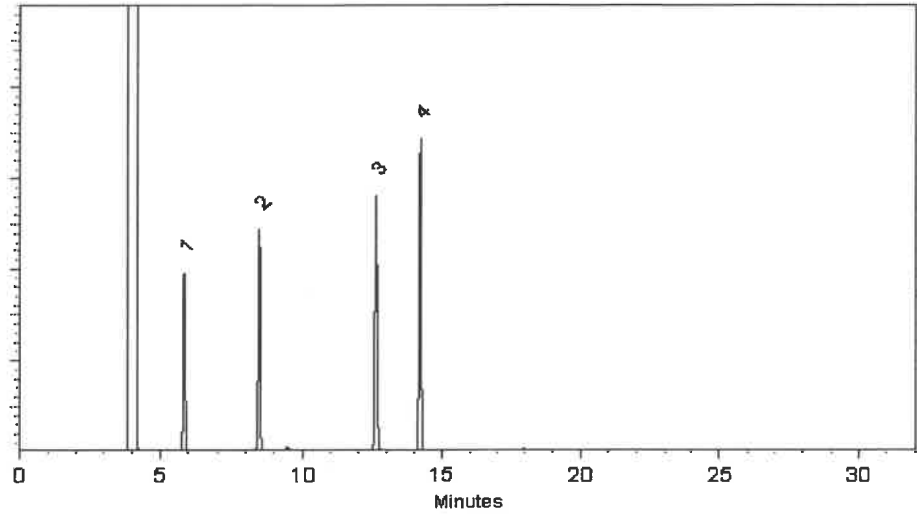
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

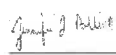


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

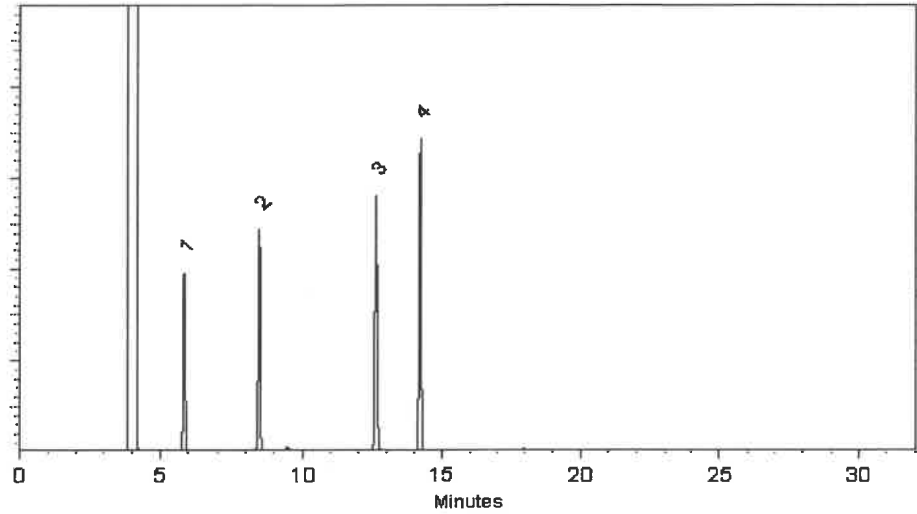
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

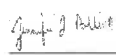


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

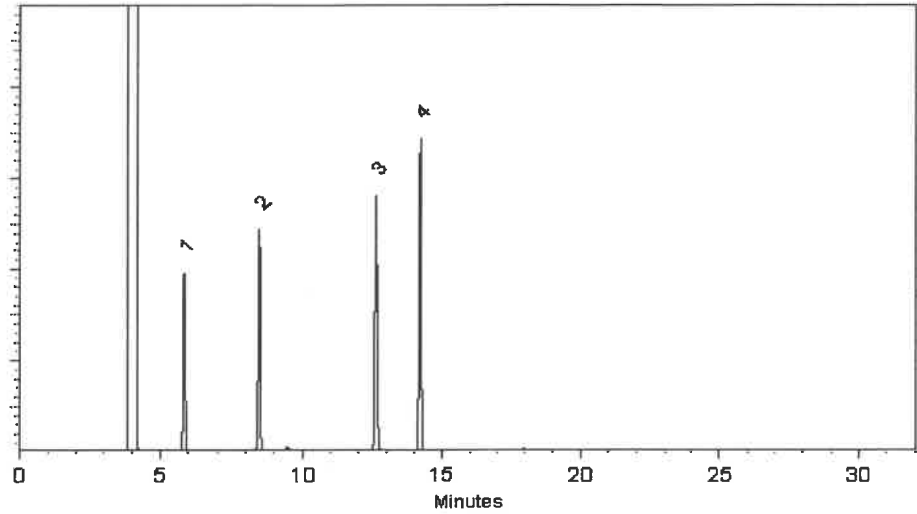
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

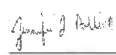


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

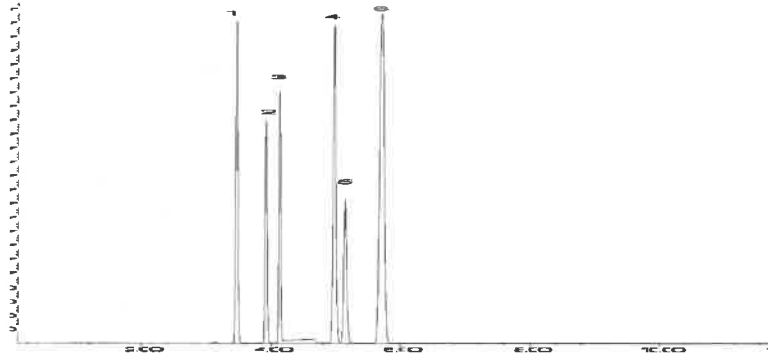
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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30 vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

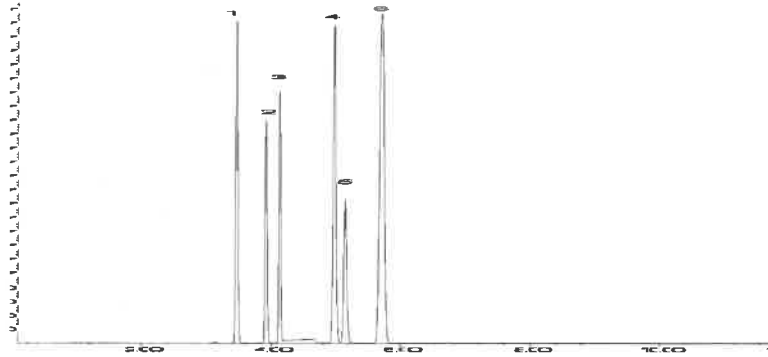
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

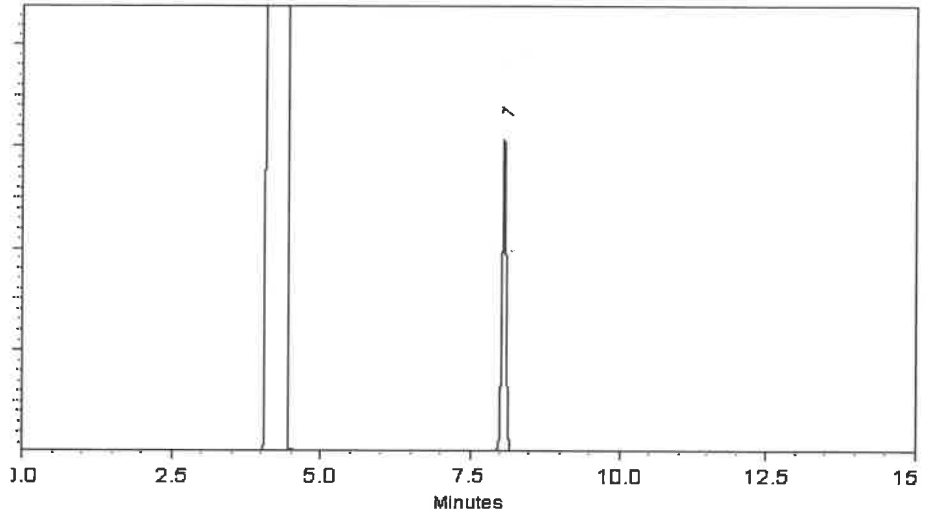
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14793 to 14802



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

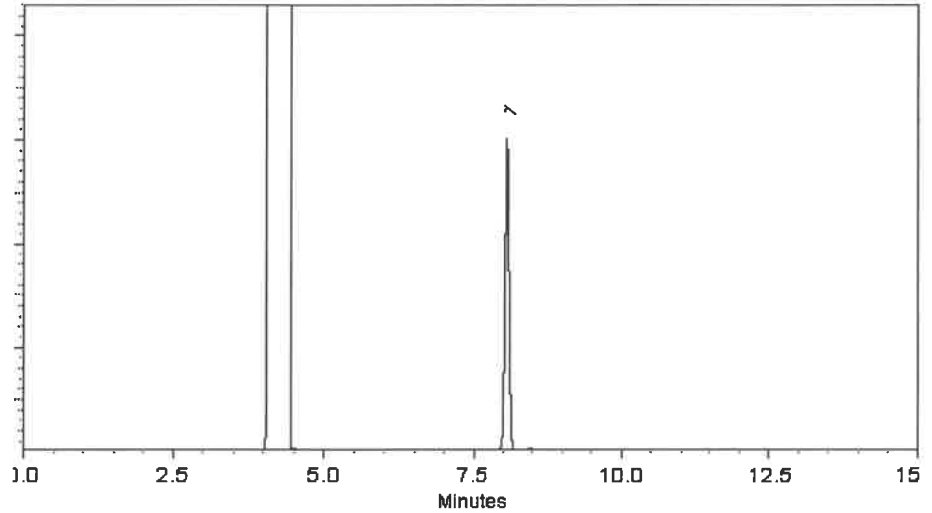
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

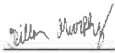
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024 Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Poffine at 7:11 am, Jan 03, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

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Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

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Q1421

USEPA

CHAIN OF CUSTODY RECORD

No: 2-022425-130044-0031

DateShipped: 2/24/2025

Site #: 51835

RFP# NA

CarrierName:

Contact Name Josh Frizzell

Lab: Alliance Technical Group, LLC - Non
CLP

AirbillNo:

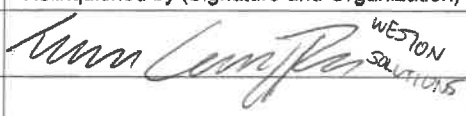
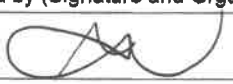
(470) 277-4600

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-01	HL_Pile	TAL VOCs	Soil	2/24/2025	09:40	9	5 gram Encore	4 C	Y
	P001-Clay-CF01-01	HL_Pile	Percent Moisture	Soil	2/24/2025	09:40	1	4 oz glass w/ septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	EPH	Soil	2/24/2025	09:40	2	4 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:40	8	40 mL Amber Vial W/ Septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP EPH	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9-6 JLF new #1
					Temp BIK present
					custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

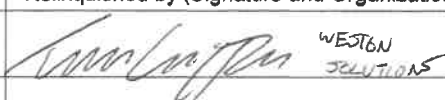
Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-02	HL_Pile	TAL VOCs	Soil	2/24/2025	09:50	3	5 gram Encore	4 C	N
	P001-Clay-CF01-02	HL_Pile	Percent Moisture	Soil	2/24/2025	09:50	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	EPH	Soil	2/24/2025	09:50	1	4 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:50	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP EPH	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9C TAL Metals + Hg Temp dbk. present custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF02-01	HL_Pile	TAL VOCs	Soil	2/24/2025	10:00	3	5 gram Encore	4 C	N
	P001-Clay-CF02-01	HL_Pile	Percent Moisture	Soil	2/24/2025	10:00	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	EPH	Soil	2/24/2025	10:00	1	4 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	10:00	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP EPH	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All SAMPLES ALL ANALYSES	 WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9°C IR #1
					Temp. OK: present
					custody seals intact

From: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Sent: Tuesday, February 25, 2025 9:30 AM
To: Jordan@chemtech.net
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835
Attachments: RFP#905-corrected COC.pdf

Jordan – Attached please find corrected COC with RFP# 905 and use the SW 846 Methods. Contact me with any questions.

Thanks,
Smita

From: Jordan Hedvat <Jordan@chemtech.net>
Sent: Monday, February 24, 2025 5:32 PM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835

*** External Message *** -- PROBE message before clicking links or opening attachments.

Thanks, the COC did not mention specific Methods so we are running by standard SW-846. If CLP Methods required for these samples received today please let us know. COC is attached (# Q1421)

Regards,
Jordan



Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sumbaly, Smita [<mailto:S.Sumbaly@WestonSolutions.com>]
Sent: Monday, February 24, 2025 5:28 PM
To: Jordan@chemtech.net
Subject: Re: Site # 51835

Rfp#905

Sent from my iPhone

On Feb 24, 2025, at 4:36 PM, Jordan Hedvat <Jordan@chemtech.net> wrote:

*** External Message *** -- PROBE message before clicking links or opening attachments.

Good afternoon Smita,

We received project with COC titled "Site # 51835." Please confirm for which RFP # project this falls under so we may include the correct pricing provided at the time of bid? Thank you

Regards,
Jordan

<image001.png>

Jordan Hedvat

Account Executive, Environmental Laboratories

Main: 908-789-8900

Direct: 908-728-3144

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com

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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 : Q1421 ROYF02

Order Date : 2/24/2025 2:56:42 PM

Project Mgr :

Client Name : Weston Solutions, Inc.

Project Name : ~~51835~~ RFP 905

Report Type : Level 4

Client Contact : Smita Sumbaly

Receive DateTime : 2/24/2025 2:25:00 PM

EDD Type : EXCEL NOCLEANUP

Invoice Name : Weston Solutions, Inc.

Purchase Order :

Hard Copy Date :

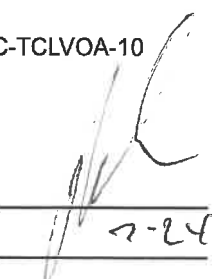
Invoice Contact : Smita Sumbaly

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1421-01	P001-CLAY-CF01-01	Solid	02/24/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-02	Q1421-01MS	Solid	02/24/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-03	Q1421-01MSD	Solid	02/24/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-07	P001-CLAY-CF01-02	Solid	02/24/2025	09:50	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-09	P001-CLAY-CF02-01	Solid	02/24/2025	10:00	VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By : 

Date / Time : 2-24-25 15:40

Received By : 

Date / Time : 2-24-25 15:40

Storage Area : VOA Refridgerator Room